WASHINGTON STATE PARKS & RECREATION COMMISSION

LAURIE CONNELLY, CHAIR

SOPHIA DANENBERG — HOLLY WILLIAMS

ALI RAAD — MICHAEL LATIMER

SCOTT MERRIMAN — ALFIE ALVARADO-RAMOS

DIANA DUPUIS, DIRECTOR

Area Manager: Janet Halstead

June 17, 2025
REGION MANAGER *date*

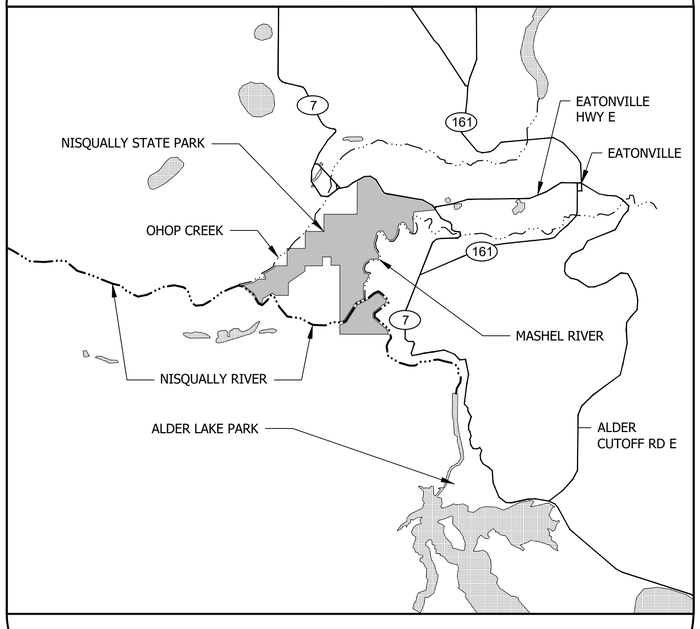
6/17/2025
CAPITAL PROGRAM MANAGER *date*

NISQUALLY STATE PARK

PHASE 3B - WELCOME CENTER AND LOOP TRAIL

VICINITY MAP

NORTH



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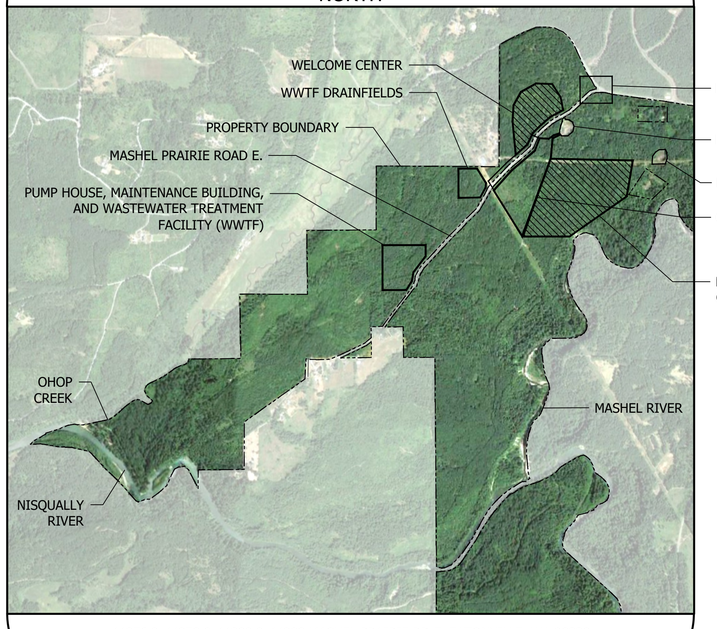
PROJECT LOCATION

NORTH



44276 & 44278 & 44280 & 44288 MASHEL PRAIRIE RD E. EATONVILLE, WA 98328
SEC-19 T-16-N R-04-E
PIERCE COUNTY TAX PARCEL NUMBER 0416201006 / 0416194008 / 0316251003

G1.0

PROJECT TEAM

OWNER: STATE OF WASHINGTON
PARKS AND RECREATION COMMISSION
1111 ISRAEL ROAD SOUTHWEST
POST OFFICE BOX 42650
OLYMPIA, WASHINGTON 98504-2650
www.parks.wa.gov

OWNER'S REPRESENTATVE: WASHINGTON STATE PARKS AND RECREATION COMMISSION
1111 ISRAEL ROAD SOUTHWEST
POST OFFICE BOX 42650
OLYMPIA, WASHINGTON 98504-2650

BRIAN YEAROUT
CONSTRUCTION PROJECT ADMINISTRATOR
TELEPHONE: (360) 725-9763
brian.yearout@parks.wa.gov

PROJECT ARCHITECTURAL AND ENGINEERING CONSULTANTS

PROJECT LEAD: RWD Landscape Architects
ROBERT W. DROLL, LANDSCAPE ARCHITECT, P.S.
4405 7TH AVENUE SE, SUITE 203
LACEY, WA 98503
www.rwdroll.com

JONAH HAYES, PLA
PRINCIPAL
TELEPHONE: (360) 456-3813
CELL #: (907) 830-0248
jonah@rwdroll.com

CIVIL ENGINEER: kpff
KPFF CONSULTING ENGINEERS
612 WOODLAND SQUARE LOOP SE, SUITE 100
LACEY, WA 98503
www.kpff.com

STEVE SCHMITZ, PE
PROJECT CIVIL ENGINEER
TELEPHONE: (360) 581-4310
steve.schmitz@kpff.com

LAND SURVEYOR: kpff
KPFF CONSULTING ENGINEERS
612 WOODLAND SQUARE LOOP SE, SUITE 100
LACEY, WA 98503
www.kpff.com

JEREME CHAPMAN
PRINCIPAL
TELEPHONE: (360) 292-4943
jereme.chapman@kpff.com

ELECTRICAL ENGINEER: CROSS ENGINEERS, INC
923 MLK Jr. Way, Tacoma, WA 98405, Phone: (253) 759-0118, info@crossengineers.com, Job Number: 20-119
CROSS ENGINEERS, INC.
923 MARTIN LUTHER KING JR. WAY
TACOMA, WA 98504
www.crossengineers.com

SCOTT KELLY
PROJECT ELECTRICAL ENGINEER
TELEPHONE: (253) 759-0118
scottk@crossengineers.com

ARCHITECT: KMB architects
KMB ARCHITECTS, INC., P.S.
906 COLUMBIA ST SW, SUITE 400
OLYMPIA, WA 98501
www.kmb-architects.com

JAMES HILL, RA
PROJECT ARCHITECT
TELEPHONE: (360) 292-1217
JamesHill@KMB-architects.com

PROJECT SUMMARY

THE WASHINGTON STATE PARKS AND RECREATION COMMISSION IS DEVELOPING PHASE 3B OF NISQUALLY STATE PARK WHICH INCLUDES A WELCOME CENTER AND A LOOP TRAIL. THE WELCOME CENTER WORK INCLUDES BOTH A WELCOME CENTER BUILDING AND A LOOP ROAD SERVICING THE BUILDING. THE LOOP TRAIL INCLUDES 1.04 MILES OF MULTI-USE TRAILS FOR PEDESTRIAN, EQUESTRIAN, AND BICYCLISTS THAT CONNECTS TO THE EXISTING DAY USE PARKING AREA. THE TRAIL ALSO HAS A SPUR LEADING TO AN OVERLOOK STRUCTURE THAT LOOKS OVER THE MASHEL RIVER TOWARDS MOUNT RAINIER.

PARCEL INFORMATION

ZONING:	PR AND R-10
PROPERTY NAME:	NISQUALLY STATE PARK
PROPERTY TYPE:	PARKS & RECREATION AND RURAL 10
PRESENT USE:	TRAILS
PARCELS TOTAL AREA:	493.1 ACRES
Q-S-T-R:	SE-19-16N-04E
WATER SYSTEM:	GROUNDWATER WELL
SEWER SYSTEM:	ON-SITE SEPTIC SYSTEM
ACCESS:	PUBLIC, PIECE COUNTY R.O.W.
STREET SURFACE:	PAVED

PROPERTY NOTES

PROPERTY ADDRESS: 43371 MASHEL PRAIRIE RD E
EATONVILLE, WA 98328

PARCEL TAX NUMBER(S): 0416173022 / 0416202008 / 0416202007

LEGAL DESCRIPTION: SECTION 19 TOWNSHIP 16N RANGE 04E
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

SITE INFORMATION

PARCELS SIZE TOTAL:	296.20 ACRES
PROJECT SITE AREA (LIMIT OF WORK):	5.05 ACRES
PROPOSED IMPERVIOUS SURFACE TOTALS:	1.41 ACRES
PROPOSED IMPERVIOUS SURFACES AS A PERCENTAGE OF PARCEL SIZE:	.47 %

IMPERVIOUS SURFACE	AREA
EXISTING IMPERVIOUS SURFACE	.29 ACRES
PROPOSED	1.41 ACRES
TOTAL IMPERVIOUS SURFACE	1.70 ACRES

NOTE: QUANTITIES PROVIDED HEREIN ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE FOR DERIVING THEIR OWN QUANTITIES.

ABBREVIATIONS

ABI	ALTERNATE BID ITEM
ABN	ABANDON
AC	ASPHALTIC CONCRETE
ADD	ADDITIVE
ADMIN	ADMINISTRATION BUILDING
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATELY
A.T.	ALL-THREAD
@	AT
BC	BOTTOM OF CURB
BLDG	BUILDING
BLKG	BLOCKING
BM	BENCH MARK
BOC	BACK OF CURB
BW	BOTTOM OF WALL
CB	CARRIAGE BOLT
CF	CUBIC FOOT
CIE	COLLECTOR INVERT ELEVATION
CLR	CLEARING, CLEARANCE
CMP	CORRUGATED METAL PIPE
CO	CONTRACTING OFFICER
CONT	CONTINUOUS
CONC	CONCRETE
CORR	CORRUGATED
CP	CENTER POINT
CS	COUNTERSINK
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
CY	CUBIC YARD
DEMO	DEMOLISH / DEMOLITION
DET	DETAIL
DF	DOUG FIR
DIA	DIAMETER
DTL	DETAIL
E	EAST
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EQ SP	EQUAL SPACING
EX	EXISTING
FDN	FOUNDATION
FFE	FINISH FLOOR ELEVATION
FIN GR	FINISH GRADE
FT	FOOT, FEET
FTG	FOOTING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GLB	GLUED LAMINATED BEAM
GPM	GALLONS PER MINUTE
GW	SANDY GRAVEL
HL	HELICAL
HMA	HOT MIX ASPHALT
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL SECTIONS
HT	HEIGHT
HZ	HORIZONTAL
ID	INSIDE DIAMETER
I.E.	INVERT ELEVATION
IN	INCH
JT	JOINT
L	LEFT, LONG
LB	LAG BOLT
LP	LOW POINT
LS	LAG SCREW
MB	MACHINE BOLT+
ME	MATCH EXISTING
MAT'L	MATERIAL
MAX	MAXIMUM
MIL	1/1000th INCH
MIN	MINIMUM
MPOC	MID-POINT OF CURVE
N	NORTH
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OR	OWNER'S REPRESENTATIVE
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PERF	PERFORATED
PERIM	PERIMETER
PI	POINT OF INTERSECTION
PLT	PLATE
PLYWD	PLYWOOD
POLY	POLYETHYLENE
PRO	PROPOSED
PSE	PUGET SOUND ENERGY
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PT	PRESSURE TREATED
PVC	POLYVYNYL CHLORIDE
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
REQ'D	REQUIRED
RP	RADIUS POINT
S	SLOPE
SCH	SCHEDULE
SEC	SECTION
SHLDR	SHOULDER
SIM	SIMILAR
SM	SILTY SAND
SP'D	SPACED
SQ	SQUARE
SS	SANITARY SEWER
STD	STANDARD
STA	STATION
STL	STEEL
SY	SQUARE YARD
TC	TOP OF CURB
TESC	TEMPORARY EROSION & SEDIMENT CONTROL
THK	THICK
T.O.S.	TOP OF SLAB
TPCHD	TACOMA-PIERCE COUNTY HEALTH DEPARTMENT
TW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VC	VERTICAL CURVE
VERT	VERTICAL
WD	WIDTH
W/	WITH
W/IN	WITHIN
W/O	WITHOUT
WWM	WELDED WIRE MESH
WWTF	WASTE WATER TREATMENT FACILITY

BID SET

PRIVATE IMPROVEMENTS
1021435 PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

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CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JH	6/20/25
DRAWN	JH	6/20/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · LICENSED LANDSCAPE ARCHITECT · No. 24012362 EXP 06/16/2026

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

PROJECT TEAM & NOTES

G1.1

SCALE

PARKS FILE#

811 Call 811 two business days before you dig

SHEET 2 OF 119

G:\2018\18062A New Full Service Park Design Services\Drawings\Sheets\Phase 3\1-General Sheets\G1.1 Project Team & Notes.dwg
May-05-25 10:18am

GENERAL SHEETS

SHEET	#	DESCRIPTION
G1.0	1	COVER SHEET
G1.1	2	PROJECT TEAM & NOTES
G1.2	3	SHEET LIST
G2.0	4	KEY MAP
G2.1	5	NOTICE OF CONCURRENT WORK
G3.0	6	BORROW PIT ACCESS ROUTE
G3.1	7	BORROW PIT ENLARGEMENT

DRAWING SHEETS

SHEET	#	DESCRIPTION
		WELCOME CENTER & MASHEL RIVER OVERLOOK
D1.0	8	EXISTING CONDITIONS - WELCOME CENTER LOOP
D1.1	9	EXISTING CONDITIONS - MASHEL RIVER OVERLOOK TRAIL
D2.0	10	DEMOLITION & TESC PLAN - WELCOME CENTER LOOP
D2.1	11	DEMOLITION & TESC PLAN - MASHEL RIVER OVERLOOK TRAIL
D2.2	12	DEMOLITION & TESC PLAN - MASHEL RIVER OVERLOOK TRAIL
D2.3	13	DEMOLITION & TESC PLAN - MASHEL RIVER OVERLOOK TRAIL
D2.4	14	DEMOLITION & TESC PLAN - MASHEL RIVER OVERLOOK TRAIL
D2.5	15	DEMOLITION & TESC PLAN - WELCOME CENTER LOOP (SOUTH)
D2.6	16	DEMOLITION & TESC PLAN - WELCOME CENTER LOOP (NORTH)
D3.0	17	TESC NOTES & DETAILS
D3.1	18	TESC NOTES & DETAILS
D3.2	19	DEMO & TESC NOTES
C1.0	20	SITE PLAN - WELCOME CENTER LOOP
C1.1	21	SITE PLAN - MASHEL RIVER OVERLOOK TRAIL
C2.0	22	SITE PLAN ENLARGEMENT - WELCOME CENTER
C2.1	23	SITE PLAN ENLARGEMENT - WELCOME CENTER PAVING
C2.2	24	SITE PLAN ENLARGEMENT - MASHEL RIVER OVERLOOK TRAIL
C2.3	25	SITE PLAN ENLARGEMENT - MASHEL RIVER OVERLOOK
C2.4	26	ACCESS PLAN - WELCOME CENTER LOOP (SOUTH)
C2.5	27	ACCESS PLAN - WELCOME CENTER LOOP (NORTH)
C2.6	28	ACCESS DETAILS
C3.0	29	SITE DETAILS
C3.1	30	SITE DETAILS
C3.2	31	SITE DETAILS
C3.3	32	SITE DETAILS - RECTANGULAR KIOSK
C3.4	33	SITE DETAILS - APPROACH
C3.5	34	SITE DETAILS - OVERLOOK ABUTMENT
C3.6	35	SITE DETAILS - OVERLOOK APPROACH
C3.7	36	SITE DETAILS - FRAMING
C3.8	37	SITE DETAILS - DECKING
C3.9	38	SITE DETAILS - RAILING
C3.10	39	SITE DETAILS - OVERLOOK
C3.11	40	SITE DETAILS - OVERLOOK
C3.12	41	SITE DETAILS - OVERLOOK
C3.13	42	SITE DETAILS - WELCOME FIGURE FOOTING
C4.0	43	GRADING PLAN - WELCOME CENTER LOOP
C5.0	44	GRADING PLAN ENLARGEMENT - WELCOME CENTER
C5.1	45	GRADING PLAN ENLARGEMENT - MASHEL RIVER OVERLOOK TRAIL
C5.2	46	GRADING PLAN ENLARGEMENT - MASHEL RIVER OVERLOOK
C5.3	47	GRADING PLAN ENLARGEMENT - BENCHES
C5.4	48	DRAINAGE DETAILS
C5.5	49	DRAINAGE DETAILS
C5.6	50	DRAINAGE DETAILS
C6.0	51	WELCOME CENTER LOOP ROAD PLAN & PROFILE
C6.1	52	WELCOME CENTER LOOP ROAD PLAN & PROFILE
C6.2	53	WELCOME CENTER LOOP ROAD PLAN & PROFILE
C6.3	54	TRAIL A PLAN & PROFILE
C6.4	55	TRAIL A PLAN & PROFILE
C6.5	56	TRAIL C PLAN & PROFILE
C6.6	57	TRAIL C PLAN & PROFILE
C6.7	58	TRAIL C PLAN & PROFILE
C6.8	59	TRAIL D PLAN & PROFILE
C7.0	60	CROSS SECTIONS
C7.1	61	ROAD & TRAIL SECTIONS
C7.2	62	ROAD & TRAIL SECTIONS
C8.0	63	SIGNAGE & STRIPING PLAN - WELCOME CENTER LOOP
C8.1	64	SIGNAGE & STRIPING PLAN - MASHEL RIVER OVERLOOK TRAIL
C9.0	65	SIGNAGE & STRIPING DETAILS
C9.1	66	SIGNAGE & STRIPING DETAILS
L1.0	67	RESTORATION PLAN - WELCOME CENTER LOOP
L1.1	68	RESTORATION PLAN - MASHEL RIVER OVERLOOK TRAIL
L2.0	69	RESTORATION PLAN ENLARGEMENT - WELCOME CENTER
L2.1	70	RESTORATION PLAN ENLARGEMENT - MASHEL RIVER OVERLOOK TRAIL
L3.0	71	PLANTING DETAILS
L4.0	72	RESTORATION PLAN - WETLAND MITIGATION
		ARCHITECTURE
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A-101	75	WELCOME CENTER - FLOOR PLAN
A-151	76	WELCOME CENTER - CEILING PLAN
A-161	77	WELCOME CENTER - ROOF PLAN
A-201	78	WELCOME CENTER - EXTERIOR ELEVATIONS
A-251	79	WELCOME CENTER - INTERIOR ELEVATIONS
A-301	80	WELCOME CENTER - BUILDING SECTIONS
A-501	81	WALL TYPES, FLOOR, AND ROOF TYPES
A-511	82	WELCOME CENTER - FOUNDATION DETAILS
A-521	83	WELCOME CENTER - EXTERIOR WALL DETAILS
A-541	84	WELCOME CENTER - EXTERIOR DOOR & FRAME DETAILS
A-542	85	WELCOME CENTER - INTERIOR DOOR & FRAME DETAILS
A-543	86	WELCOME CENTER - EXTERIOR WINDOW DETAILS
A-561	87	WELCOME CENTER - CEILING DETAILS
A-571	88	WELCOME CENTER - ROOF DETAILS
A-572	89	WELCOME CENTER - ROOF DETAILS
A-585	90	WELCOME CENTER - MISCELLANEOUS DETAILS
A-601	91	WELCOME CENTER - DOOR & FRAME SCHEDULE & WINDOW TYPES
A-621	92	WELCOME CENTER - FINISH SCHEDULE
		STRUCTURAL
S1.0	93	STRUCTURAL NOTES
S1.1	94	SPECIAL INSPECTIONS & TABLES
S2.1	95	FOUNDATION PLAN
S2.2	96	ROOF FRAMING PLAN
S5.0	97	STRUCTURAL DETAILS
S5.1	98	STRUCTURAL DETAILS
		MECHANICAL, PLUMBING & FIRE PROTECTION
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M-002	100	WELCOME CENTER SCHEDULES
M-101	101	WELCOME CENTER FIRST FLOOR HVAC PLAN
M-501	102	DETAILS
P-001	103	LEGEND & NOTES
P-002	104	WELCOME CENTER SCHEDULES
P-101	105	WELCOME CENTER PLUMBING PLANS
P-501	106	DETAILS
		CIVIL
C10.0	107	WATER & SEWER PLAN & PROFILE
C10.1	108	WATER DETAILS
C10.2	109	SEWER DETAILS
		ELECTRICAL PLANS
E001	110	ELECTRICAL SYMBOLS LEGEND
E002	111	LIGHTING FIXTURE SCHEDULE/GENERAL NOTES
E100	112	OVERALL ELECTRICAL SITE PLAN
E101	113	WELCOME CENTER ELECTRICAL SITE PLAN
E201	114	WELCOME CENTER ELECTRICAL FLOOR PLANS
E202	115	WELCOME CENTER ELECTRICAL SCHEDULES
E301	116	CONDUIT AND CONDUCTOR SCHEDULE
E401	117	ELECTRICAL DETAILS
E402	118	ELECTRICAL DETAILS
E403	119	ELECTRICAL DETAILS

BID SET

Call 811 two business days before you dig

SHEET 3 OF 119

PRIVATE IMPROVEMENTS

1021435 PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

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CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/16/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

SHEET LIST
G1.2

SCALE

PARKS FILE#

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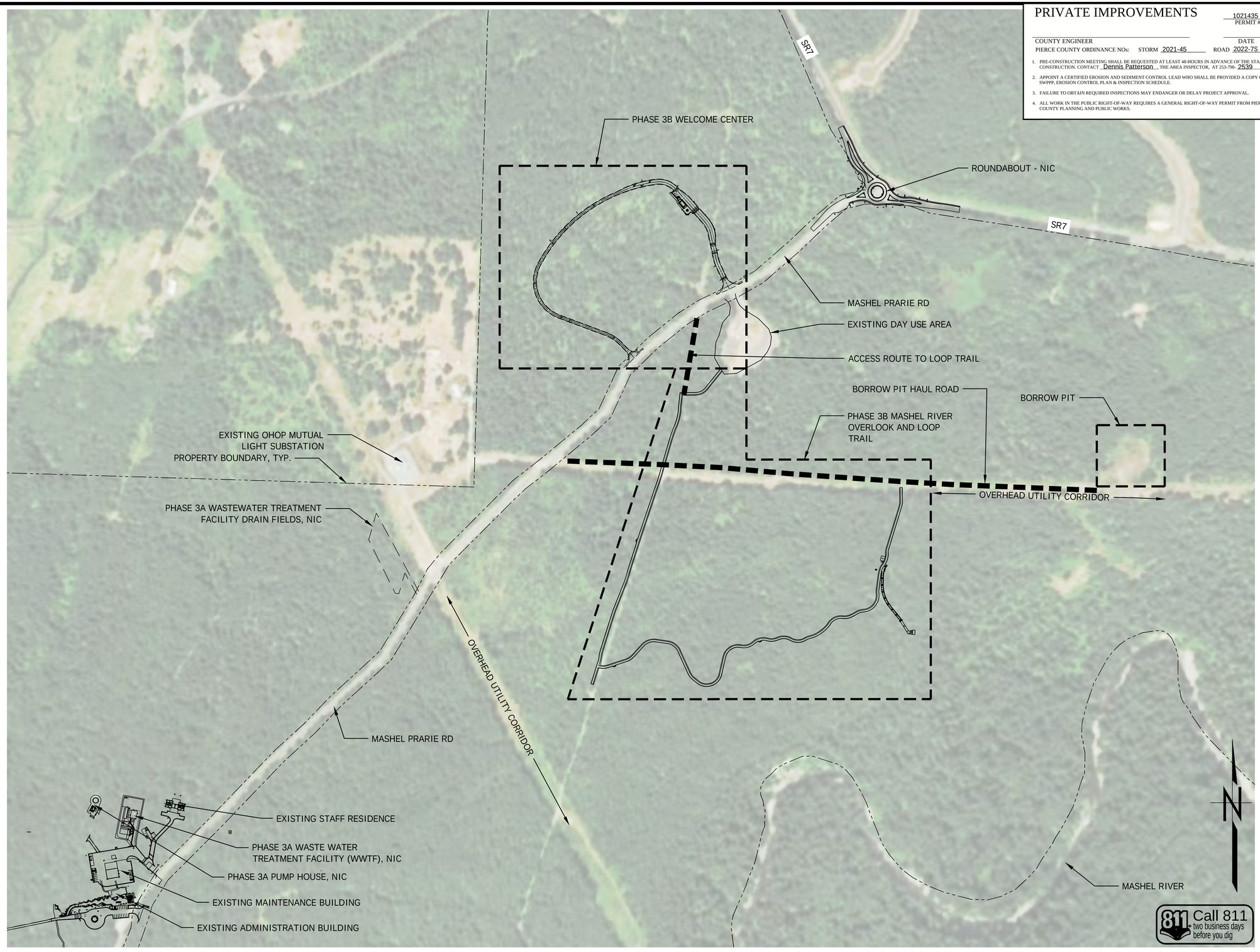
May-05-25 10:18am



PRIVATE IMPROVEMENTS

1021435
PERMIT #

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BID SET

SHEET 4 OF 119

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REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

KEY MAP

G2.0

SCALE 0 250' 500'

PARKS FILE#

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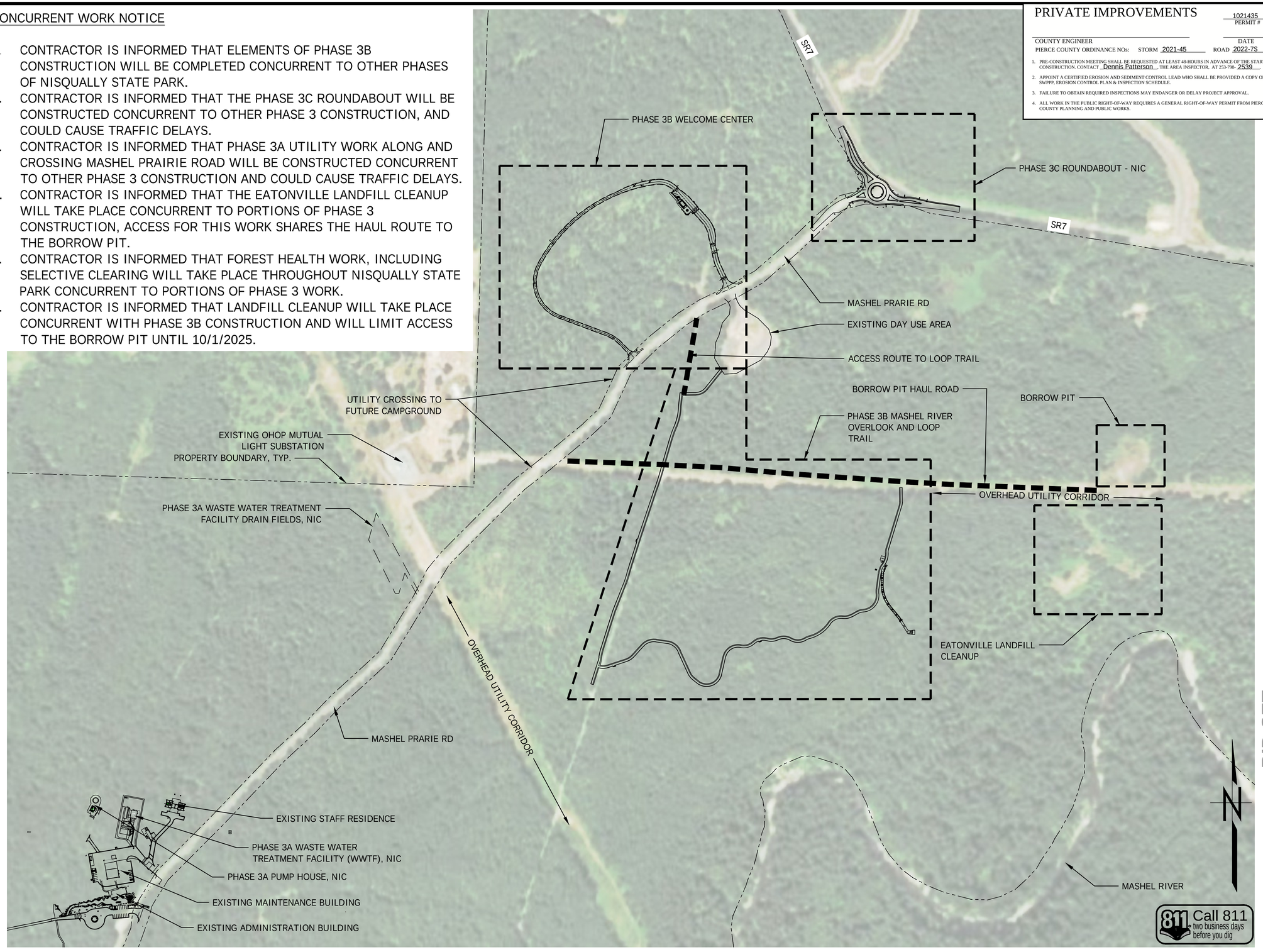
Jun-03-25 12:32pm

CONCURRENT WORK NOTICE

1. CONTRACTOR IS INFORMED THAT ELEMENTS OF PHASE 3B CONSTRUCTION WILL BE COMPLETED CONCURRENT TO OTHER PHASES OF NISQUALLY STATE PARK.
2. CONTRACTOR IS INFORMED THAT THE PHASE 3C ROUNDABOUT WILL BE CONSTRUCTED CONCURRENT TO OTHER PHASE 3 CONSTRUCTION, AND COULD CAUSE TRAFFIC DELAYS.
3. CONTRACTOR IS INFORMED THAT PHASE 3A UTILITY WORK ALONG AND CROSSING MASHEL PRAIRIE ROAD WILL BE CONSTRUCTED CONCURRENT TO OTHER PHASE 3 CONSTRUCTION AND COULD CAUSE TRAFFIC DELAYS.
4. CONTRACTOR IS INFORMED THAT THE EATONVILLE LANDFILL CLEANUP WILL TAKE PLACE CONCURRENT TO PORTIONS OF PHASE 3 CONSTRUCTION, ACCESS FOR THIS WORK SHARES THE HAUL ROUTE TO THE BORROW PIT.
5. CONTRACTOR IS INFORMED THAT FOREST HEALTH WORK, INCLUDING SELECTIVE CLEARING WILL TAKE PLACE THROUGHOUT NISQUALLY STATE PARK CONCURRENT TO PORTIONS OF PHASE 3 WORK.
6. CONTRACTOR IS INFORMED THAT LANDFILL CLEANUP WILL TAKE PLACE CONCURRENT WITH PHASE 3B CONSTRUCTION AND WILL LIMIT ACCESS TO THE BORROW PIT UNTIL 10/1/2025.



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CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/16/2026 · LICENSED LANDSCAPE ARCHITECT ·

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

NOTICE OF CONCURRENT WORK

G2.1

SCALE 0 250' 500'

PARKS FILE#

SHEET 5 OF 119

G:\2018\18062A New Full Service Park Design Services\Drawings\Sheets\Phase 3\1-General Sheets\G2.0 Key Map 3B.dwg
Jun-03-25 12:35pm

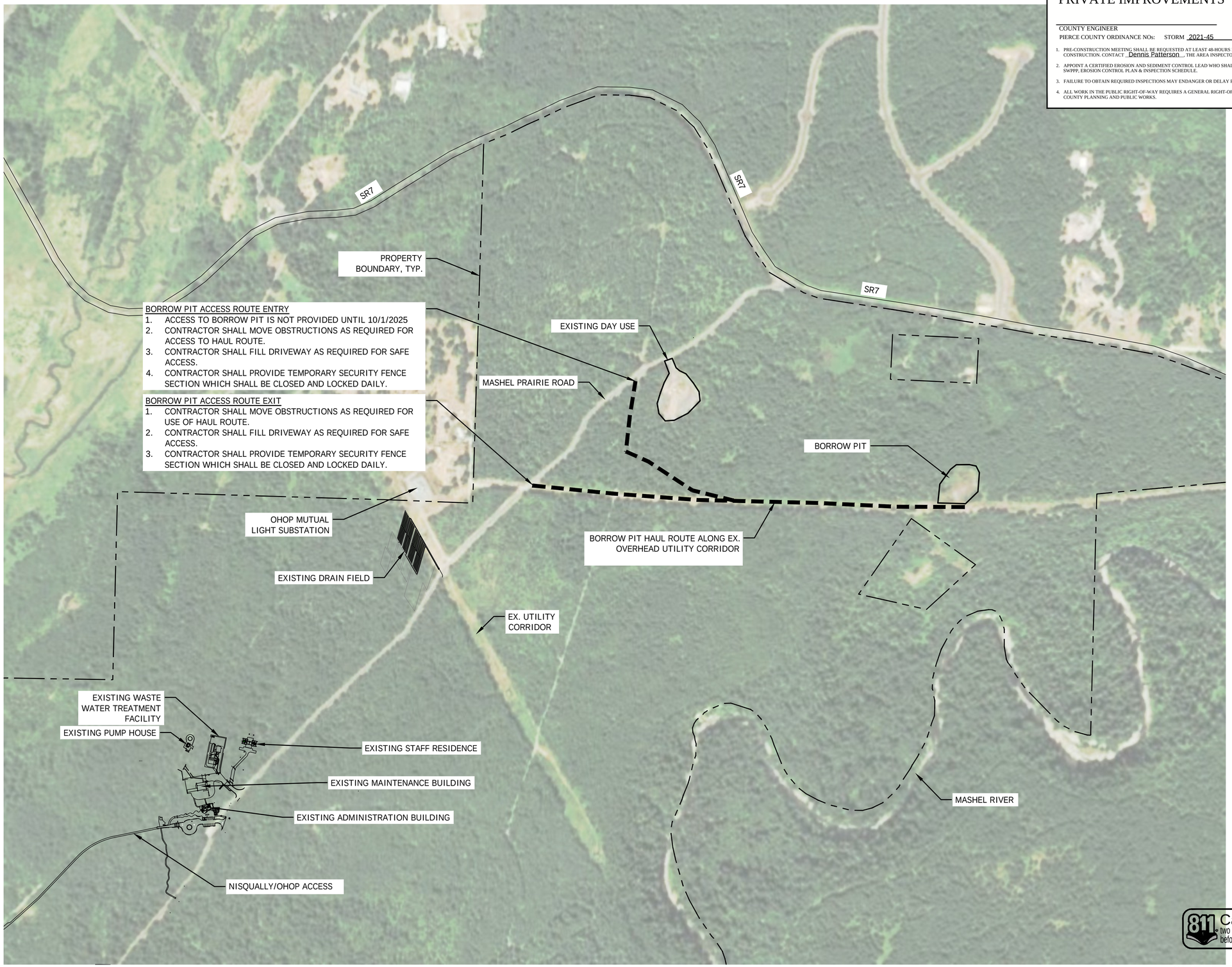
PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-7S

1. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48-HOURS IN ADVANCE OF THE START OF CONSTRUCTION. CONTACT Dennis Patterson, THE AREA INSPECTOR, AT 253-798- 2539 .
2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.
3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.



BORROW PIT ACCESS ROUTE ENTRY

1. ACCESS TO BORROW PIT IS NOT PROVIDED UNTIL 10/1/2025
2. CONTRACTOR SHALL MOVE OBSTRUCTIONS AS REQUIRED FOR ACCESS TO HAUL ROUTE.
3. CONTRACTOR SHALL FILL DRIVEWAY AS REQUIRED FOR SAFE ACCESS.
4. CONTRACTOR SHALL PROVIDE TEMPORARY SECURITY FENCE SECTION WHICH SHALL BE CLOSED AND LOCKED DAILY.

BORROW PIT ACCESS ROUTE EXIT

1. CONTRACTOR SHALL MOVE OBSTRUCTIONS AS REQUIRED FOR USE OF HAUL ROUTE.
2. CONTRACTOR SHALL FILL DRIVEWAY AS REQUIRED FOR SAFE ACCESS.
3. CONTRACTOR SHALL PROVIDE TEMPORARY SECURITY FENCE SECTION WHICH SHALL BE CLOSED AND LOCKED DAILY.

811 Call 811 two business days before you dig

BID SET

SHEET 6 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JH	6/20/25
DRAWN	JH	6/20/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/18/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

BORROW PIT ACCESS ROUTE

G3.0

SCALE

NOT TO SCALE

PARKS FILE#

O:\2018\180624 New Full Service Park Design Services\Drawings\Sheets\Phase 3\1-General Sheets\G3.0 Borrow Pit Access Route.dwg
Jun-03-25 12:41pm

NOTES:

1. QUANTITIES PROVIDED FOR CONTRACTOR INFORMATION ONLY. CONTRACTOR TO DERIVE THEIR OWN QUANTITIES.

2. BOULDERS DISCOVERED DURING GRUBBING AND EXCAVATION THAT ARE LARGER THAN 2' DIA ARE TO BE SALVAGED AND STOCKPILED ON SITE FOR LATER USE. SMALLER BOULDERS ARE TO BE DISPOSED OF ON EDGES OF BORROW PIT.

CLEARING/GRUBBING & BORROW PIT EXCAVATION AREA LIMITS 34,050 +/- SF

EXISTING CUT SLOPE APEX +/-

CLEAR & GRUB TO MINERAL SOIL DEPTH

50'

EXISTING CUT SLOPE APEX +/-

BORROW PIT HAUL ROUTE/UTILITY CORRIDOR

BOULDER PILE OUTLINE

GRAVEL

CP #341 736.15 HUB/MAGNAIL

CP #342 733.23 HUB/MAGNAIL

CP #346 750.35 HUB/MAGNAIL

SET T BAR IN HUB #339 736.22

CP #52

CB #53

HEAK 748.24 #147 748.35

BID SET

811 Call 811 two business days before you dig

SHEET 7 OF 119

PRIVATE IMPROVEMENTS

1021435 PERMIT #

COUNTY ENGINEER _____ DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

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STATE OF WASHINGTON JONAH HAYES LICENSED LANDSCAPE ARCHITECT No. 24017362 EXP. 05/10/2026

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

BORROW PIT ENLARGEMENT

G3.1

SCALE 20' 0 40'

PARKS FILE#

O:\2018\18062A New Full Service Park Design Services\Drawings\Sheets\Phase 3\1-General Sheets\G3.1 Borrow Pit.dwg
May-05-25 10:23am

PRIVATE IMPROVEMENTS

1021435
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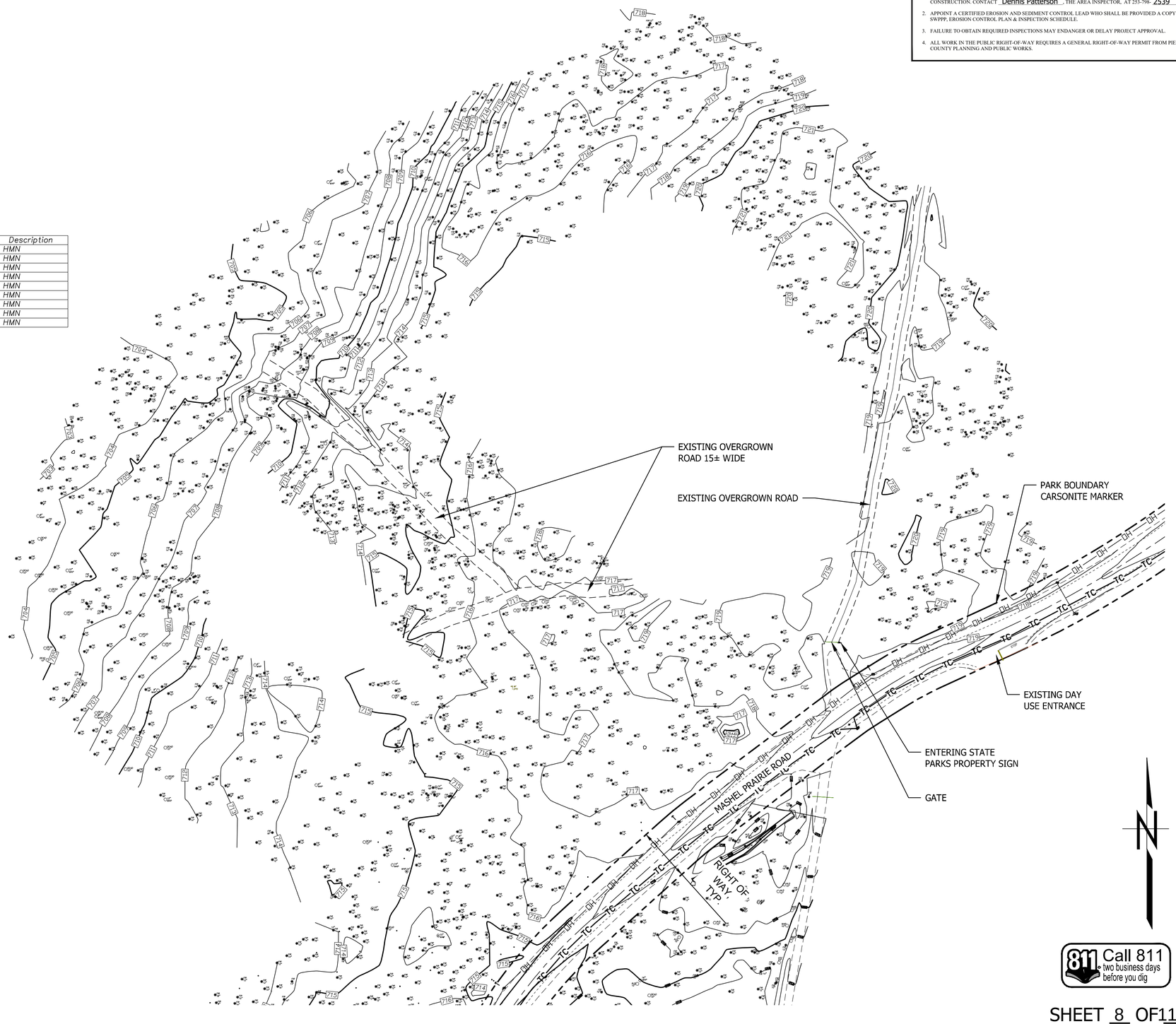
LEGEND

- SURVEY CONTROL POINT
- POWER POLE
- POWER VAULT
- TELECOMMUNICATIONS PEDESTAL
- POWER TRANSFORMER
- ANCHOR
- SIGN AS NOTED
- CONIFER AS NOTED
- DECIDUOUS AS NOTED
- GRAVEL
- ASPHALT
- FENCE AS NOTED
- EXISTING TRAIL
- OVERHEAD POWER LINE

Point	Northing	Easting	Elevation	Description
154	562241.772	181275.546	698.95	HMN
155	562430.994	181156.360	695.71	HMN
156	562062.986	181168.514	697.31	HMN
157	561965.641	181090.874	698.13	HMN
158	561941.497	180943.221	686.03	HMN
159	561794.857	181023.538	696.27	HMN
160	562027.415	180826.361	666.59	HMN
161	562222.973	180934.095	676.88	HMN
162	562237.171	181102.931	696.56	HMN



BID SET

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SHEET 8 OF 119

CAD NO.		
		DATE
		APP.
		INT.
		REVISIONS
		NO.

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STATE OF WASHINGTON · JONAH HAYES · No. 24012382 EXP. 05/16/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

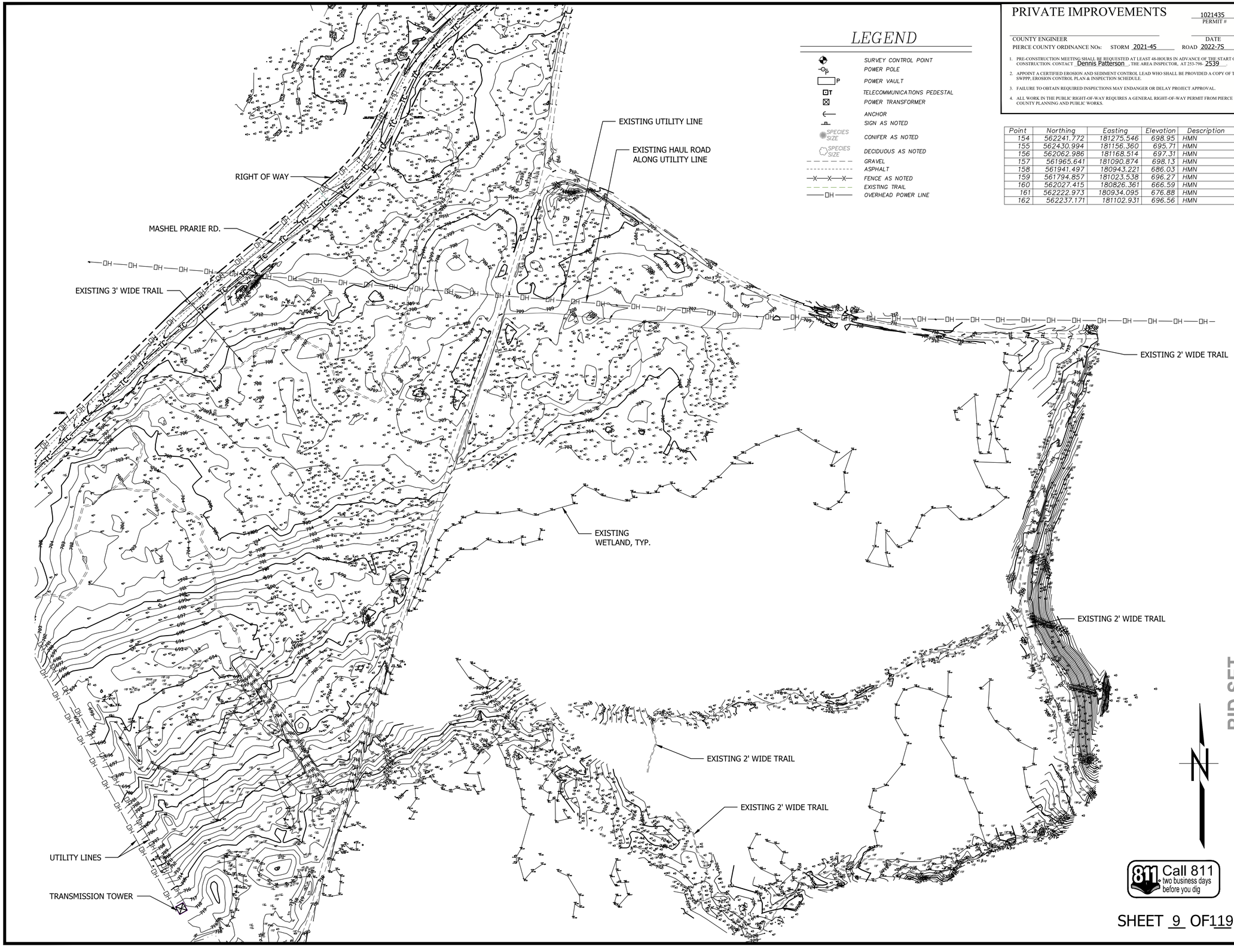
PHASE 3B
WELCOME CENTER AND LOOP TRAIL

EXISTING CONDITIONS - WELCOME CENTER LOOP
D1.0

SCALE
SCALE: 1"=60'
0 30' 60' 90' 120'

PARKS FILE#

O:\2018\18062A New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\D1.0 Existing Conditions - WC.dwg
May-05-25 10:26am



LEGEND

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- POWER POLE
- POWER VAULT
- TELECOMMUNICATIONS PEDESTAL
- POWER TRANSFORMER
- ANCHOR
- SIGN AS NOTED
- SPECIES SIZE — CONIFER AS NOTED
- SPECIES SIZE — DECIDUOUS AS NOTED
- GRAVEL
- ASPHALT
- FENCE AS NOTED
- EXISTING TRAIL
- OVERHEAD POWER LINE

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

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BID SET

811 Call 811 two business days before you dig

SHEET 9 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

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CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/16/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

EXISTING CONDITIONS - MASHEL RIVER OVERLOOK TRAIL D1.1

SCALE

SCALE: 1"=100'

0 50' 100' 150' 200'

PARKS FILE#

G:\2018\180624 New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\D1.1 Existing Conditions - MRO.dwg
May-05-25 10:30am

PRIVATE IMPROVEMENTS

1021435
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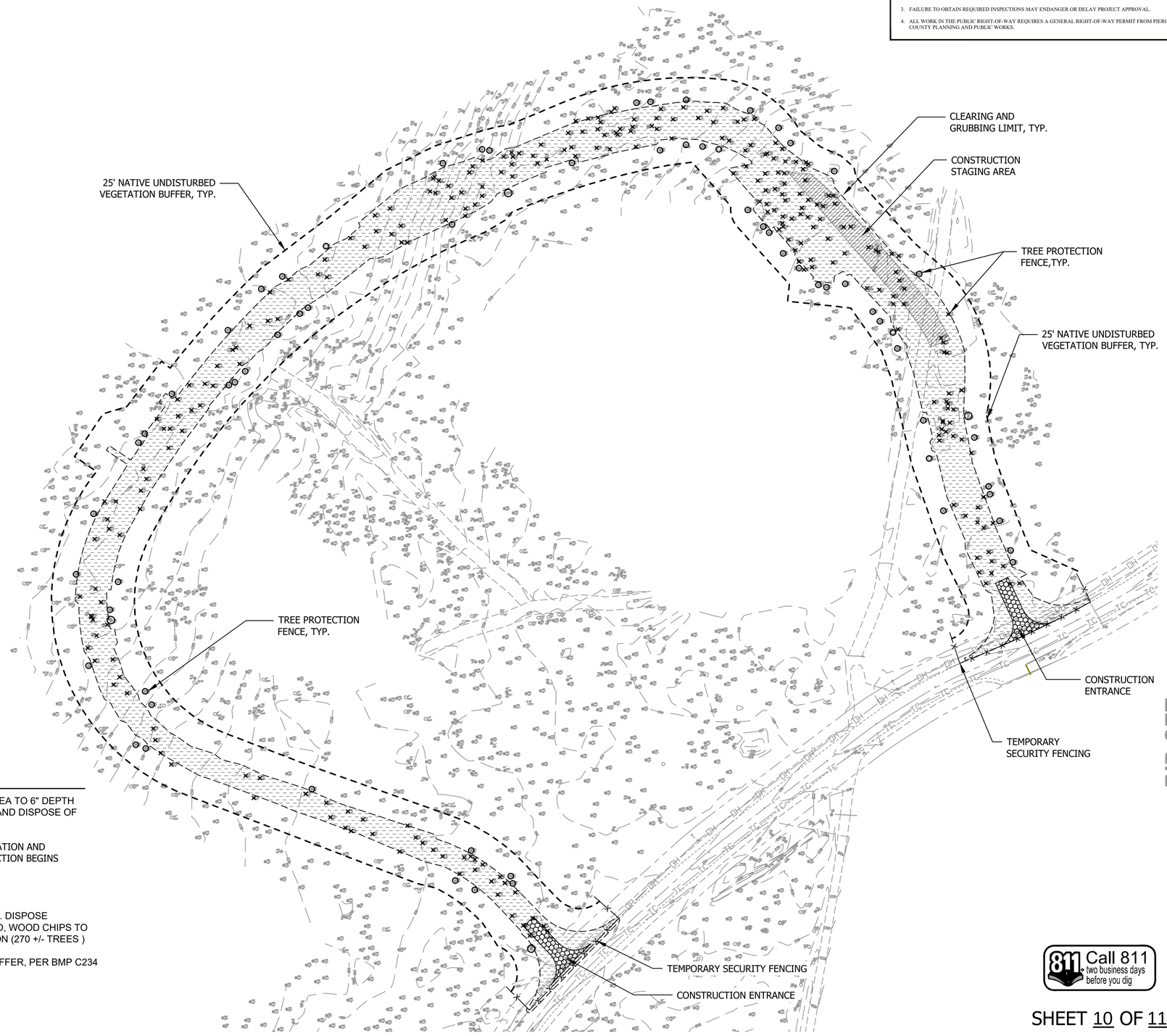

DEMO & TESC LEGEND:

- CLEAR & GRUB ALL VEGETATION FROM AREA TO 6" DEPTH MINIMUM OR TO MINERAL SOIL SUB BASE AND DISPOSE OF OFF SITE LEGALLY (96,160 +/- SF)
- CONSTRUCTION STAGING AREA CONFIRM LOCATION AND DIMENSIONS WITH OWNER BEFORE CONSTRUCTION BEGINS
- CONSTRUCTION ENTRANCE D3.1
- × REMOVE EXISTING TREES WITH ROOTWAD. DISPOSE ROOTWAD OFFSITE, TREES TO BE CHIPPED, WOOD CHIPS TO BE STOCKPILED ON SITE FOR RESTORATION (270 +/- TREES)
- 25' NATIVE UNDISTURBED VEGETATION BUFFER, PER BMP C234
- TREE PROTECTION FENCE 1/D3.0
- –x–x–x– TEMPORARY SECURITY FENCING 3/D3.0

811 Call 811 two business days before you dig

BID SET

SHEET 10 OF 119

CAD NO.

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STATE OF WASHINGTON
JONAH HAYES
No. 24012362 EXP. 05/16/2026
LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

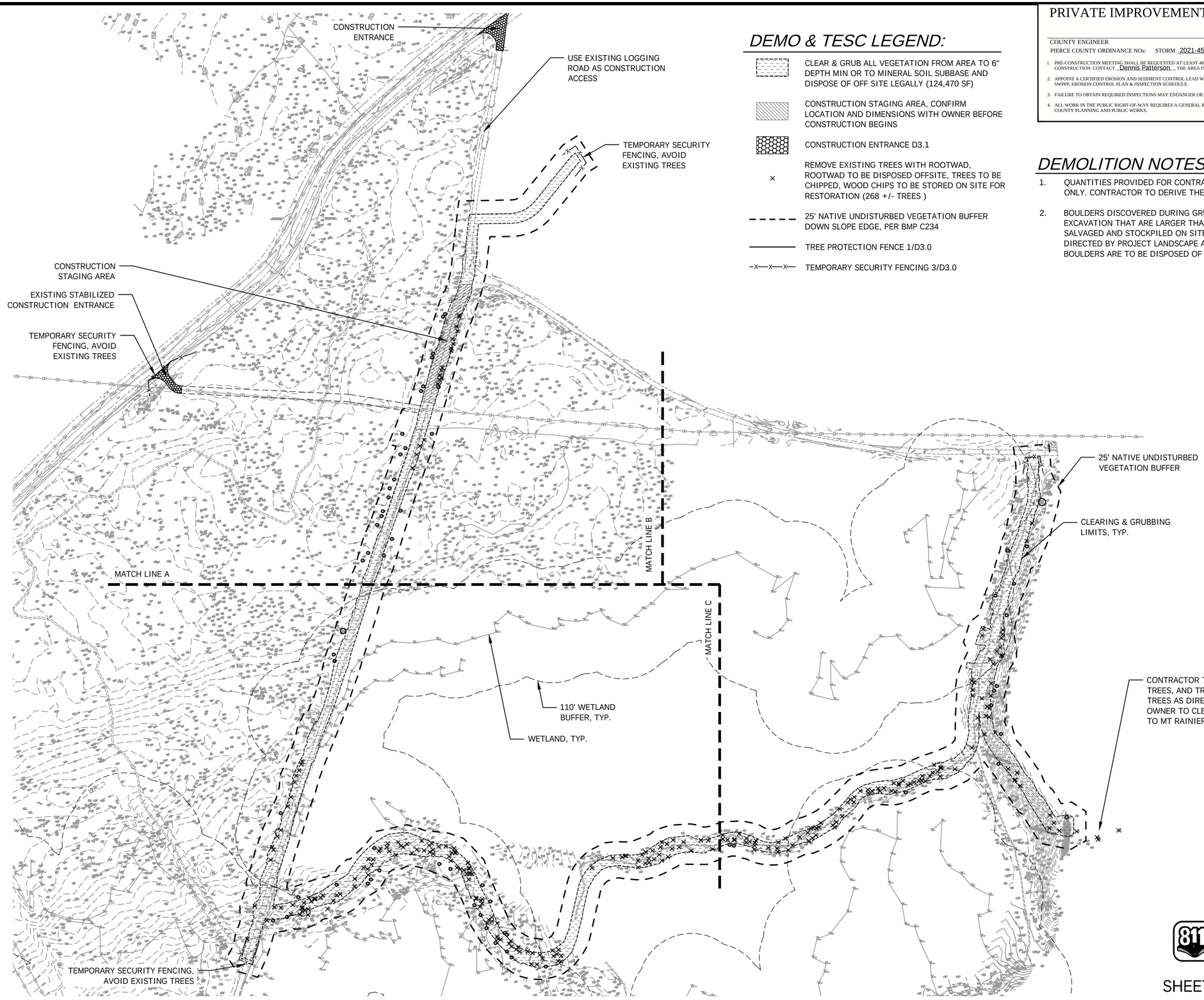
PHASE 3B
WELCOME CENTER AND LOOP TRAIL

DEMOLITION & TESC PLAN - WELCOME CENTER LOOP
D2.0

SCALE
SCALE: 1"=60'
0 30' 60' 90' 120'

PARKS FILE#

O:\2018\18062A New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\D2.0 Demo TESC – WC.dwg
May-05-25 10:30am



DEMO & TESC LEGEND:

- CLEAR & GRUB ALL VEGETATION FROM AREA TO 6" DEPTH MIN OR TO MINERAL SOIL SUBBASE AND DISPOSE OF OFF SITE LEGALLY (124,470 SF)
- CONSTRUCTION STAGING AREA, CONFIRM LOCATION AND DIMENSIONS WITH OWNER BEFORE CONSTRUCTION BEGINS
- CONSTRUCTION ENTRANCE D3.1
- REMOVE EXISTING TREES WITH ROOTWAD, ROOTWAD TO BE DISPOSED OFFSITE, TREES TO BE CHIPPED, WOOD CHIPS TO BE STORED ON SITE FOR RESTORATION (268 +/- TREES)
- 25' NATIVE UNDISTURBED VEGETATION BUFFER DOWN SLOPE EDGE, PER BMP C234
- TREE PROTECTION FENCE 1/D3.0
- TEMPORARY SECURITY FENCING 3/D3.0

DEMOLITION NOTES:

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PRIVATE IMPROVEMENTS

1021435 PERMIT #

COUNTY ENGINEER _____ DATE _____

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BID SET

811 Call 811 two business days before you dig

SHEET 11 OF 119

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CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · LICENSED LANDSCAPE ARCHITECT · No. 25012382 EXP. 09/16/2026

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

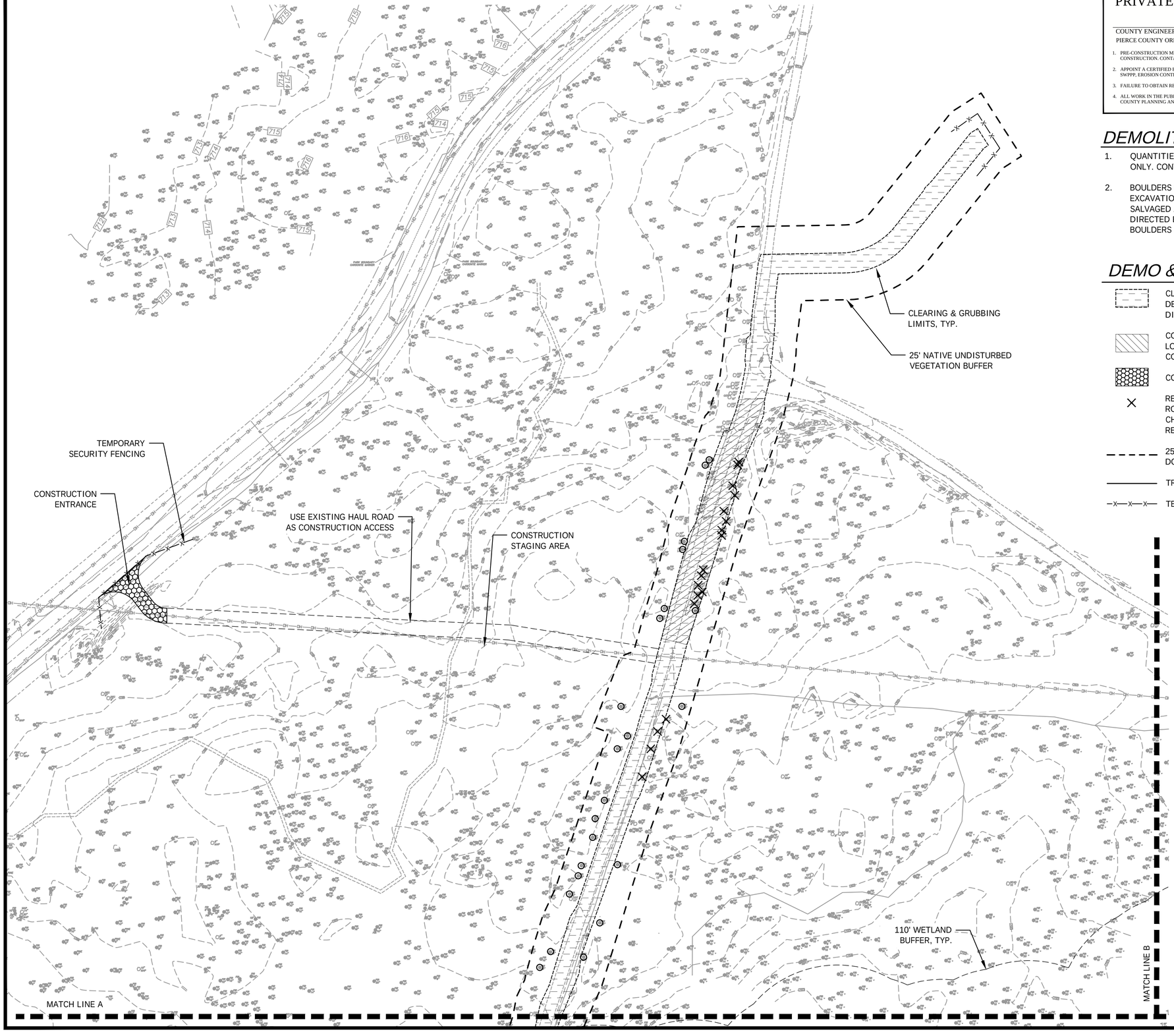
DEMOLITION & TESC PLAN - MASHEL RIVER OVERLOOK TRAIL D2.1

SCALE: 1"=100'

0 50' 100' 150' 200'

PARKS FILE#

usdot2 cz-cn-unr



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DEMO & TESC LEGEND:

- CLEAR & GRUB ALL VEGETATION FROM AREA TO 6" DEPTH MIN OR TO MINERAL SOIL SUBBASE AND DISPOSE OF OFF SITE LEGALLY (124,470 SF)
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- TREE PROTECTION FENCE 1/D3.0
- –x–x–x– TEMPORARY SECURITY FENCING 3/D3.0

BID SET

811 Call 811 two business days before you dig

SHEET 12 OF 119

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WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

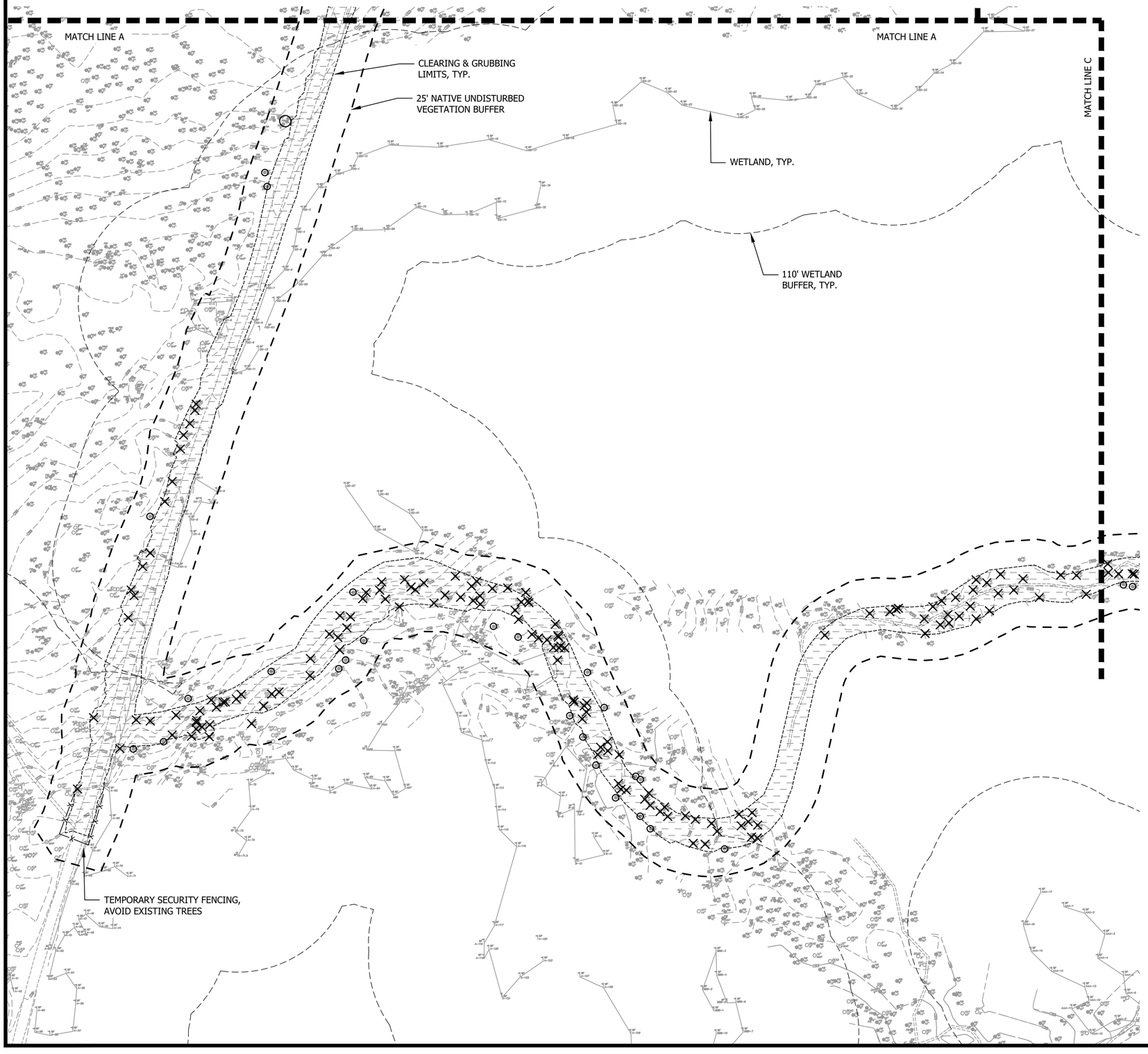
PHASE 3B
WELCOME CENTER AND LOOP TRAIL

DEMOLITION & TESC PLAN - MASHEL RIVER OVERLOOK TRAIL
D2.2

SCALE: 1"=50'
0 25' 50' 75' 100'

PARKS FILE#

wdfw17 07-03-25 4:59pm



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- –x—x—x— TEMPORARY SECURITY FENCING 3/D3.0

BID SET

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SHEET 13 OF 119

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WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

DEMOLITION & TESC PLAN - MASHEL RIVER OVERLOOK TRAIL D2.3

SCALE

SCALE: 1"=50'

0 25' 50' 75' 100'

PARKS FILE#

Jun-03-25 07:13pm

MATCH LINE A

MATCH LINE B

MATCH LINE C

CLEARING & GRUBBING LIMITS, TYP.

25' NATIVE UNDISTURBED VEGETATION BUFFER

WETLAND, TYP.

110' WETLAND BUFFER, TYP.

CONTRACTOR TO FELL 4 ADDITIONAL TREES, AND TRIM ADDITION TREES AS DIRECTED BY OWNER TO CLEAR SIGHT LINE TO MT RAINIER.

PRIVATE IMPROVEMENTS

1021435
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2. BOULDERS DISCOVERED DURING GRUBBING AND EXCAVATION THAT ARE LARGER THAN 1' DIA ARE TO BE SALVAGED AND STOCKPILED ON SITE FOR LATER USE AS DIRECTED BY PROJECT LANDSCAPE ARCHITECT. SMALLER BOULDERS ARE TO BE DISPOSED OF OFF SITE LEGALLY.
3. 3 TREES, AND PRUNING TO THE EAST OF THE OVERLOOK WILL BE LEFT WHERE THEY FALL. THE THREE TREES AND PRUNING ARE TO BE DESIGNATED BY THE OWNER ON SITE.

DEMO & TESC LEGEND:

- CLEAR & GRUB ALL VEGETATION FROM AREA TO 6" DEPTH MIN OR TO MINERAL SOIL SUBBASE AND DISPOSE OF OFF SITE LEGALLY (124,470 SF)
- CONSTRUCTION STAGING AREA, CONFIRM LOCATION AND DIMENSIONS WITH OWNER BEFORE CONSTRUCTION BEGINS
- CONSTRUCTION ENTRANCE D3.1
- × REMOVE EXISTING TREES WITH ROOTWAD, ROOTWAD TO BE DISPOSED OFFSITE, TREES TO BE CHIPPED, WOOD CHIPS TO BE STORED ON SITE FOR RESTORATION (272 +/- TREES)
- 25' NATIVE UNDISTURBED VEGETATION BUFFER DOWN SLOPE EDGE, PER BMP C234
- TREE PROTECTION FENCE 1/D3.0
- –x—x—x— TEMPORARY SECURITY FENCING 3/D3.0

BID SET

811 Call 811 two business days before you dig

SHEET 14 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JH	6/20/25
DRAWN	JH	6/20/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/18/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

DEMOLITION & TESC PLAN - MASHEL RIVER OVERLOOK TRAIL D2.4

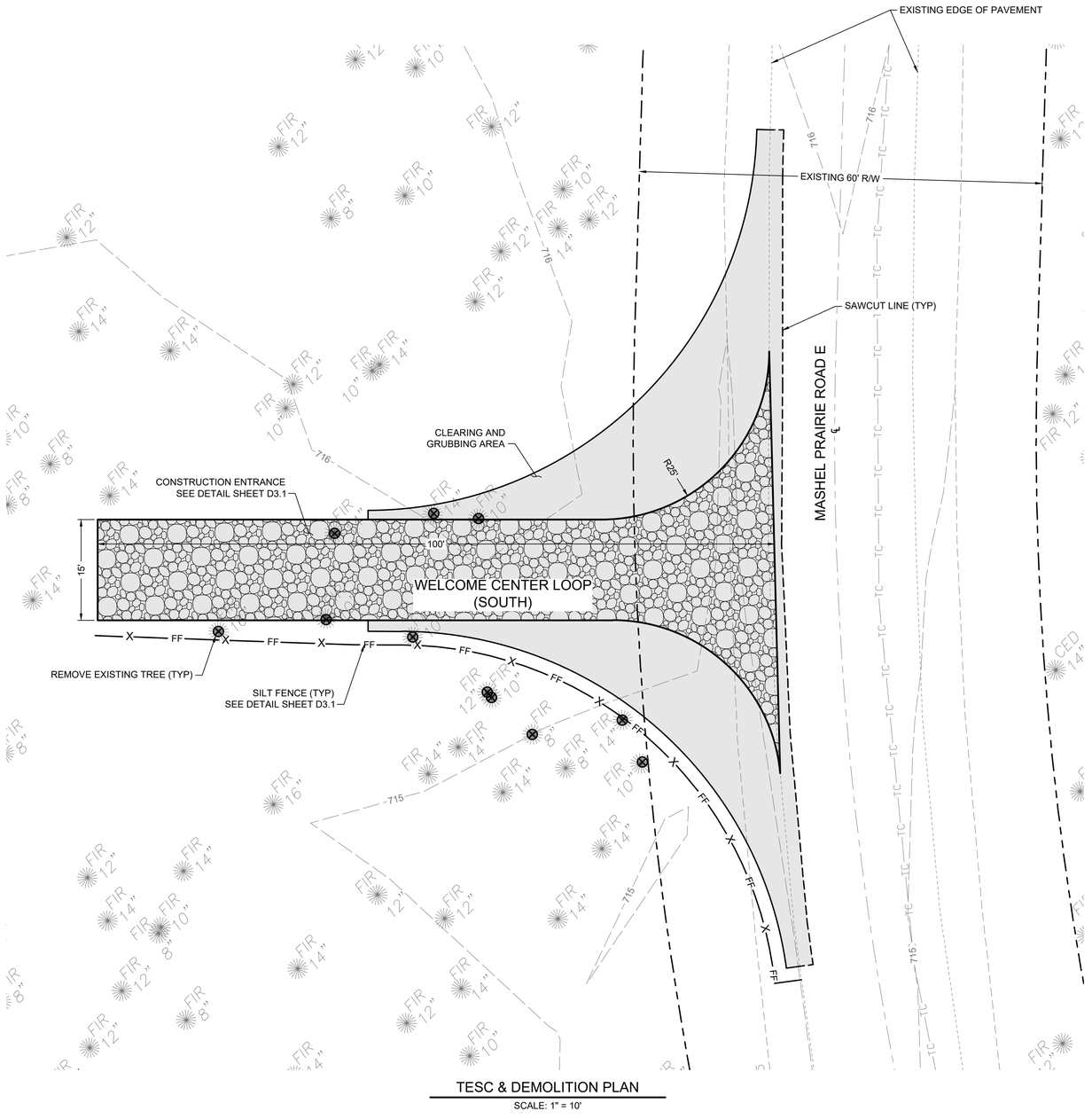
SCALE

SCALE: 1"=50'

0 25' 50' 75' 100'

PARKS FILE#

jun-03-25 21:0pm



TESC & DEMOLITION PLAN

SCALE: 1" = 10'

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

1. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48-HOURS IN ADVANCE OF THE START OF CONSTRUCTION. CONTACT Dennis Patterson , THE AREA INSPECTOR, AT 253-798- 2539 .
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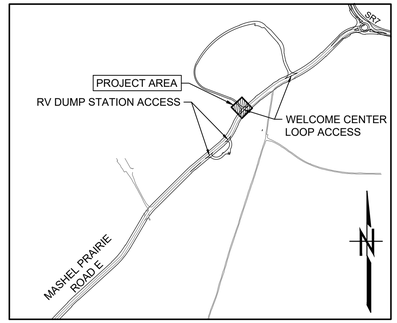
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.



KEY MAP

SCALE: 1" = 800'

LEGEND

- SILT FENCE — X — FF —
- SAWCUT LINE
- DEMOLITION ITEM ⊗
- CLEARING AND GRUBBING AREA
- CONSTRUCTION ENTRANCE
- EXISTING EVERGREEN TREE
- EXISTING DECIDUOUS TREE
- EXISTING TELECOM PEDESTAL T
- EXISTING OVERHEAD POWER POLE P
- EXISTING POWER POLE ANCHOR
- EXISTING POWER JUNCTION BOX J
- EXISTING POWER GUIDE POLE GP
- EXISTING MAILBOX
- EXISTING TELECOM LINE — TC — TC — TC —
- EXISTING CONTOUR — XXX —
- EXISTING CENTERLINE
- EXISTING R/W LINE
- EXISTING EDGE OF PAVEMENT

BID SET

811 Call 811 two business days before you dig

SHEET 15 OF 119

CAD NO.			
			DATE
			APP.
			INT.
			REVISIONS
			NO.

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEPHEN DENNIS SCHMITZ — STATE OF WASHINGTON — 48228 — REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

DEMOLITION & TESC PLAN - WELCOME CENTER LOOP (SOUTH)

D2.5

SCALE
0 10 20
SCALE IN FEET

PARKS FILE#

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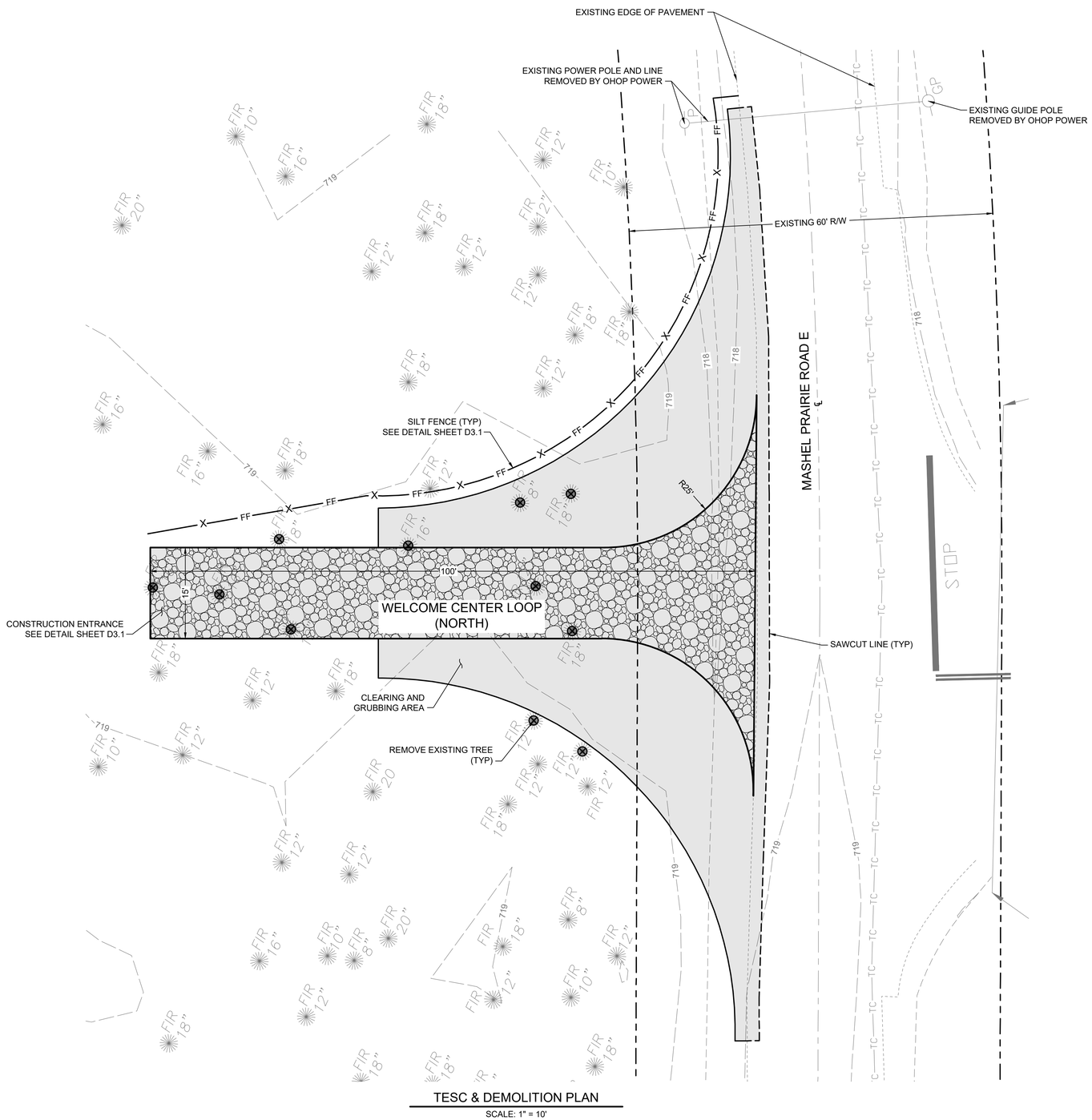

TESC & DEMOLITION PLAN

SCALE: 1" = 10'

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

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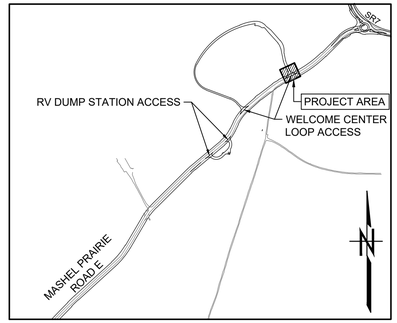

KEY MAP

SCALE: 1" = 800'

LEGEND

- SILT FENCE
- SAWCUT LINE
- DEMOLITION ITEM
- CLEARING AND GRUBBING AREA
- CONSTRUCTION ENTRANCE
- EXISTING EVERGREEN TREE
- EXISTING DECIDUOUS TREE
- EXISTING TELECOM PEDESTAL
- EXISTING OVERHEAD POWER POLE
- EXISTING POWER POLE ANCHOR
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- EXISTING POWER GUIDE POLE
- EXISTING MAILBOX
- EXISTING TELECOM LINE
- EXISTING CONTOUR
- EXISTING CENTERLINE
- EXISTING R/W LINE
- EXISTING EDGE OF PAVEMENT

BID SET

811 Call 811 two business days before you dig

SHEET 16 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

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DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEVEN DENNIS SCHMITT — STATE OF WASHINGTON — 48228 — REGISTERED PROFESSIONAL ENGINEER

06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

DEMOLITION & TESC PLAN - WELCOME CENTER LOOP (NORTH)

D2.6

SCALE 0 10 20 SCALE IN FEET

PARKS FILE#

I:\2019\10181900030 - nisqually state park\CADD\DWG\PHASE 3\Campground Sheets\C1.01 THRU C1.05 - TESC & DEMO PLANS.dwg
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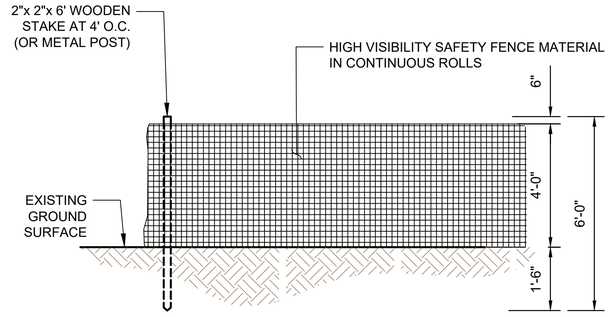


TREE PROTECTION ZONE (TPZ):

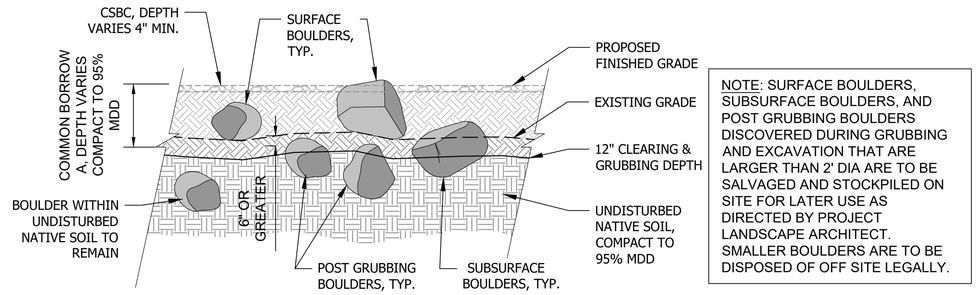
1. EXTEND FROM TREE TRUNK TO 1 FOOT FOR EVERY INCH OF TRUNK DIAMETER MEASURED AT 4.5 FEET ABOVE GRADE OR 6' WHICHEVER IS GREATER.
2. PROTECTIVE FENCING TO REMAIN INSTALLED AT ALL TIMES.
3. NO STORAGE OF EQUIPMENT OR MATERIALS WITHIN TPZ, OR WASHING OF EQUIPMENT IN OR WITHIN 10' OF TPZ.

DRIPLINE

1. EXTENDS FROM TRUNK TO OUTER CANOPY EDGE - DRIP LINE.
2. ABSOLUTELY NO STORAGE OF EQUIPMENT OR MATERIALS WITHIN DRIPLINE

1 D3.0 TREE PROTECTION FENCE

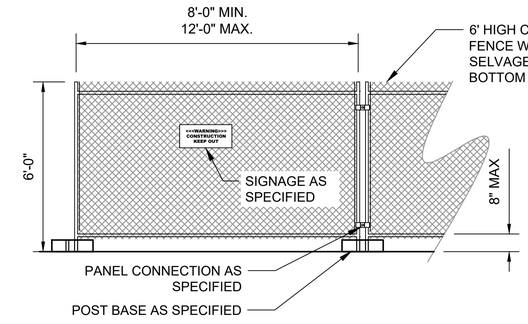
SCALE: NOT TO SCALE



NOTE: SURFACE BOULDERS, SUBSURFACE BOULDERS, AND POST GRUBBING BOULDERS DISCOVERED DURING GRUBBING AND EXCAVATION THAT ARE LARGER THAN 2' DIA ARE TO BE SALVAGED AND STOCKPILED ON SITE FOR LATER USE AS DIRECTED BY PROJECT LANDSCAPE ARCHITECT. SMALLER BOULDERS ARE TO BE DISPOSED OF OFF SITE LEGALLY.

2 D3.0 BOULDER IDENTIFICATION

SCALE: NOT TO SCALE



NOTES: INSTALLATION - NON-SLOPED AREAS:

1. CHAIN LINK FABRIC TO BE MIN. 11 GAUGE, GALVANIZED. NO RUSTED OR EXCESSIVELY MALFORMED FABRIC.
2. FENCE BASES SHALL BE CONCRETE AND OF SUFFICIENT WEIGHT AND/OR SPREAD TO ADEQUATELY SUPPORT EACH PANEL.
3. PANEL-TO-PANEL CONNECTIONS SHALL BE MADE AT A MINIMUM OF TWO LOCATIONS PER CONNECTION UNLESS OTHERWISE APPROVED.

PROVIDE OWNER WITH SHOP DRAWINGS DESCRIBING MATERIALS & METHODS FOR SECURE, PLUMB INSTALLATIONS ON SLOPED AREAS.

PROVIDE OWNER WITH SHOP DRAWINGS DESCRIBING MATERIALS & METHODS FOR GATES/ACCESS POINTS INSTALLATIONS.

3 D3.0 TEMPORARY SECURITY FENCING

SCALE: NOT TO SCALE

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

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CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JH	6/20/25
DRAWN	JH	6/20/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/16/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

BID SET

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

TESC NOTES & DETAILS

D3.0

SCALE

PARKS FILE#

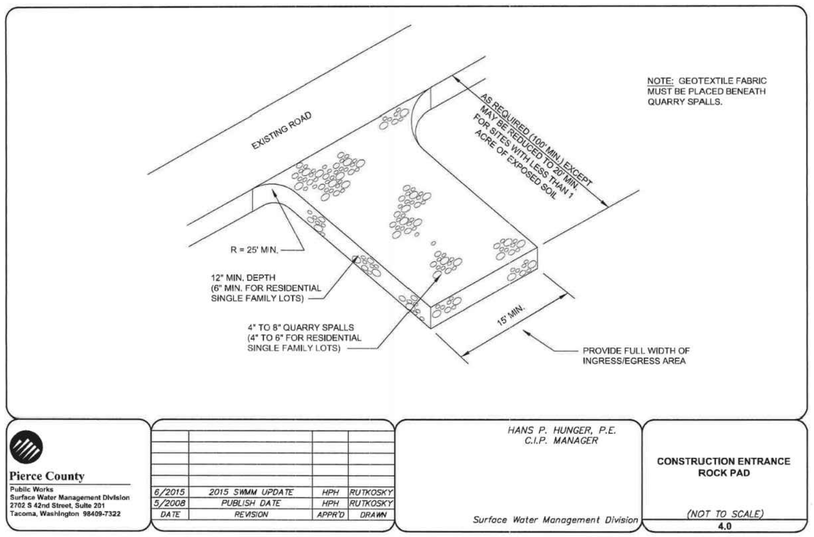
CONSTRUCTION SEQUENCE

1. A PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO THE START OF LAND DISTURBING ACTIVITY, CONSTRUCTION OR STAKING OF THE SITE.
2. FLAG CLEARING LIMITS AND INSTALL CONSTRUCTION FENCING OR FILTER FABRIC FENCING AT THE CLEARING LIMITS AND/OR AS SHOWN ON PLAN AND AS NEEDED.
3. CLEAR AND GRUB SITE. REMOVE TOPSOIL LAYER BENEATH ALL PAVEMENT AREAS AND STOCKPILE FOR SOIL RESTORATION AND REMOVE SURPLUS MATERIAL FROM SITE TO APPROVED DISPOSAL LOCATION.
4. ROUGH GRADE SITE TO SUBGRADE. PROTECT EXPOSED SOILS AND SLOPES.
5. COMPACT SUBGRADE.
6. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE.
7. MINIMIZE THE TRANSPORT OF SEDIMENT/DEBRIS ONTO THE PAVED ROAD. IF SEDIMENT IS TRANSPORTED ONTO THE PAVED SURFACE, THE ROAD SHALL BE CLEANED/SWEPT THOROUGHLY.
8. ONCE OVERALL SITE IS STABILIZED AND RISK OF TRACKOUT IS MINIMAL REMOVE TEMPORARY CONSTRUCTION ENTRANCE, PLACE CSBC AND CSTC AND COMPACT.
9. PAVE TO LIMITS SHOWN IN PLANS.
10. RESTORE DISTURBED SOILS UPON COMPLETION OF GRADING ACTIVITIES. TEMPORARY GROUND COVER/PROTECTION SUCH AS MULCHING, JUTE MATTING, EXCELSIOR MATTING, WOOD CHIPS OR CLEAR PLASTIC SHEETING SHALL BE USED UNTIL PERMANENT EROSION PROTECTION IS ESTABLISHED.
11. EROSION CONTROL MEASURES SHALL NOT BE REMOVED WITHOUT PRIOR APPROVAL FROM PIERCE COUNTY.

STORMWATER NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA) AND AS AMENDED BY THE COUNTY OR THE STATE.
2. TEMPORARY EROSION/WATER POLLUTION PREVENTION MEASURES SHALL BE REQUIRED IN ACCORDANCE WITH THE PIERCE COUNTY STORMWATER MANAGEMENT MANUAL AND THE DEPT. OF ECOLOGY'S CONSTRUCTION STORMWATER GENERAL PERMIT.

   SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THIS DRAWING NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE APPLICANT/CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
3. CALL THE UNDERGROUND LOCATE LINE 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS.
4. THE STORM DRAINAGE SYSTEM SHALL BE CONSTRUCTED ACCORDING TO APPROVED PLANS ON FILE WITH THE COUNTY. ANY SIGNIFICANT DEVIATION FROM THE APPROVED PLANS WILL REQUIRE WRITTEN APPROVAL FROM THE COUNTY.
5. A COPY OF THE APPROVED CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN AND STORMWATER PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
6. ALL EROSION CONTROL AND STORMWATER FACILITIES SHALL BE REGULARLY INSPECTED AND MAINTAINED BY THE DESIGNATED CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) DURING CONSTRUCTION.
7. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN STREET USE AND OTHER RELATED OR REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION ACTIVITY IN THE MUNICIPALITY'S RIGHT-OF-WAY. IT SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS FOR TRAFFIC CONTROL & SAFETY WHEN WORKING IN THE ROAD RIGHT-OF-WAY.
8. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN THE EVENT OR DISCOVERY OF POOR SOILS, STANDING GROUNDWATER, OR SEVERE DISCREPANCIES FROM SOIL LOG DESCRIPTIONS AS NOTED ON THE PLANS.
9. FOR PUBLIC SYSTEMS, THE CONTRACTOR SHALL CALL FOR INSPECTION 48 HOURS PRIOR TO COVERING ANY DRAINAGE STRUCTURE.
10. ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.



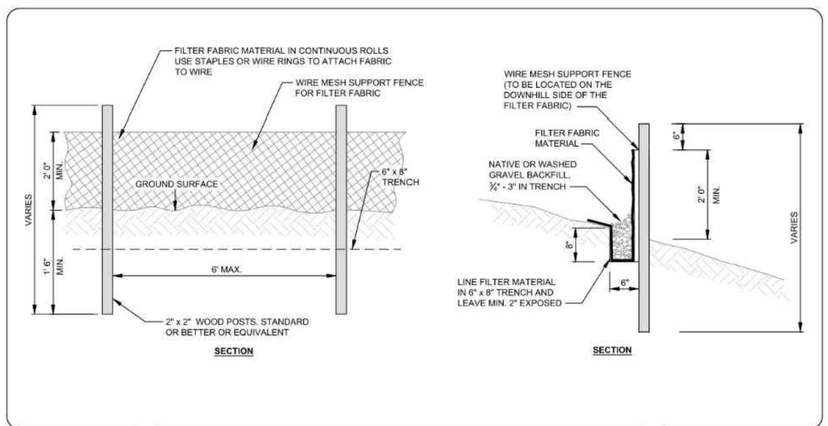
Pierce County
Public Works
Surface Water Management Division
2702 S 42nd Street, Suite 201
Tacoma, Washington 98409-7322

DATE	REVISION	APP'D	DRAWN
6/2015	2015 SWMM UPDATE	HPH	RUTKOSKY
5/2008	PUBLISH DATE	HPH	RUTKOSKY

HANS P. HUNGER, P.E.
C.I.P. MANAGER
Surface Water Management Division

CONSTRUCTION ENTRANCE ROCK PAD
(NOT TO SCALE)
4.0

Storm Water Manual Details - Section C



Pierce County
Planning and Public Works
2401 S 35th St.
Tacoma, Washington 98409

SILT FENCE

SECTION C - 8.0

ORDINANCE: 2021-xxx
EFFECTIVE DATE: 7/1/2021

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

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BID SET

811 Call 811 two business days before you dig

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED		
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CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEPHEN DENNIS SCHMITZ — STATE OF WASHINGTON — 48228 — REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

TESC NOTES & DETAILS

D3.1

SCALE

PARKS FILE#

I:\2019\1018900030 - nisqually state park\CADD\DWG\PHASE 3\Campground Sheets\NSP - Phase III\C1.06 - TESC & DEMO NOTES & DETAILS.dwg
Jun-04-25 8:03am

SWPPP NOTES:

1. APPROVAL OF THE CONSTRUCTION SWPPP DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTIONS, CHANNELS, RETENTION/DETENTION/INFILTRATION FACILITIES, UTILITIES, ETC.)
2. THE IMPLEMENTATION OF THIS CONSTRUCTION SWPPP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE CONSTRUCTION SWPPP FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE ALLOWED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE CONSTRUCTION SWPPP FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE CONSTRUCTION SWPPP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE CONSTRUCTION SWPPP FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
6. THE CONSTRUCTION SWPPP FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. THE CONSTRUCTION SWPPP FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE NPDES PERMIT.

DEMOLITON & TESC NOTES:

1. QUANTITIES PROVIDED FOR CONTRACTOR INFORMATION ONLY. CONTRACTOR TO DERIVE THEIR OWN QUANTITIES.
2. STAGING AREA TO BE LOCATED WITHIN THE LIMIT OF WORK.
3. BOULDERS DISCOVERED DURING GRUBBING AND EXCAVATION THAT ARE LARGER THAN 2' DIA ARE TO BE SALVAGED AND STOCKPILED ON SITE FOR LATER USE AS DIRECTED BY PROJECT LANDSCAPE ARCHITECT. SMALLER BOULDERS ARE TO BE DISPOSED OF OFF SITE LEGALLY.
4. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE BEGINNING OF CONSTRUCTION. THE PROJECT ENGINEER AND THE COUNTY SHALL INSPECT AND APPROVE THE INSTALLATION OF EROSION CONTROL MEASURES PRIOR TO BEGINNING CONSTRUCTION.
5. EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS ON THIS PLAN. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. NO SILTATION OF EXISTING OR PROPOSED DRAINAGE FACILITIES SHALL BE ALLOWED. CARE SHALL BE TAKEN TO PREVENT MIGRATION OF SILTS TO OFF-SITE PROPERTIES.
6. THE CONTRACTOR SHALL MAKE DAILY SURVEILLANCE OF ALL EROSION CONTROL MEASURES AND MAKE ANY NECESSARY REPAIRS OR ADDITIONS TO THE EROSION CONTROL MEASURES. THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS DETERMINED NECESSARY BY THE COUNTY INSPECTOR AND/OR THE PROJECT ENGINEER.
7. DURING THE WET SEASON, NOVEMBER TO MARCH, ALL DISTURBED SOILS SHALL BE STABILIZED WITHIN 48 HOURS AFTER STOP OF WORK. EROSION CONTROL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, COVERING THE EFFECTED AREA, INCLUDING SPOIL PILES, WITH PLASTIC SHEEETING, STRAW MATTING, JUTE MATTING, STRAW MULCH, OR WOOD CHIPS. SEEDING OF THE DISTURBED AREAS SHALL TAKE PLACE AS WEATHER PERMITS.
8. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO MAKE SURE VEGETATION COVERAGE IS COMPLETE. AREAS SHALL BE REPAIRED, RESEEDED, AND FERTILIZED AS REQUIRED.
9. TRACKING OF SOIL OFF-SITE WILL NOT BE ALLOWED. IF ANY SOIL IS TRACKED ONTO A PUBLIC STREET IT SHALL BE REMOVED BY THE END OF THAT WORKING DAY, ANY FURTHER TRACKING OF MUD WILL THEN BE PREVENTED BY SWEEPING OR WASHING OF THE VEHICLE'S TIRES BEFORE DRIVING ON A PUBLIC STREET.
10. NO MORE THAN 500 LF OF TRENCH ON A DOWNSLOPE OR MORE THAN 5% SHALL BE OPENED AT ONE TIME
11. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES
12. TRENCH DEWATERING DEVICES SHALL BE DISCHARGED IN A MANOR THAT WILL NOT ADVERSELY AFFECT FLOWING STREAMS , DRAINAGE SYSTEMS, OR OFF-SITE PROPERTIES.
13. ALL DISTURBED AREAS SHALL BE PLANTED PER THE RESTORATION PLAN UPON COMPLETION OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT COMPLETE COVERAGE OF THE DISTURBED AREAS IS PROVIDED & THAT GROWTH OF THE VEGETATION IS MAINTAINED.

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

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4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.

BID SET

SHEET 19 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JH	6/20/25
DRAWN	JH	6/20/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/16/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

DEMO & TESC NOTES

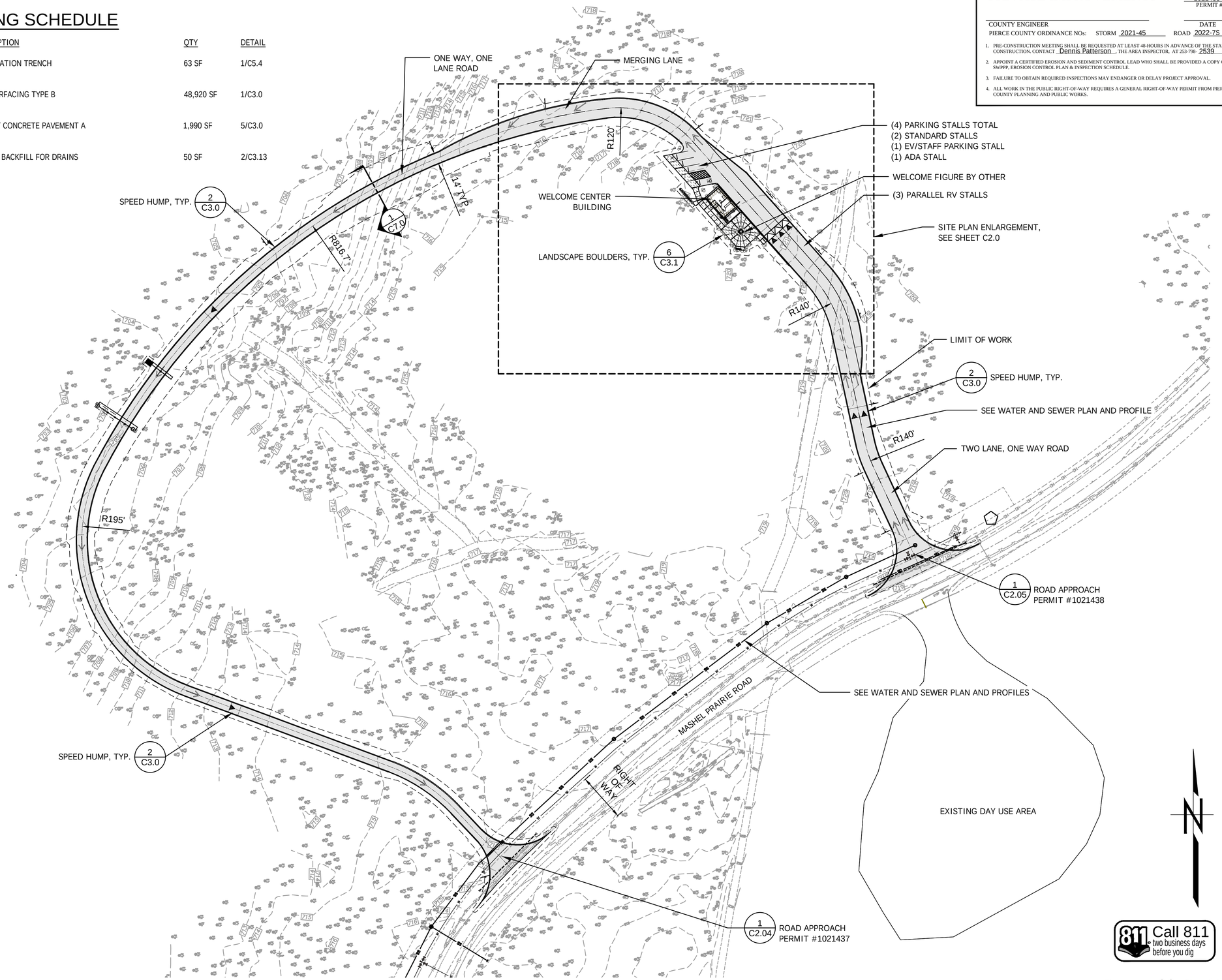
D3.2

SCALE

PARKS FILE#

SURFACING SCHEDULE

SYMBOL	DESCRIPTION	QTY	DETAIL
	INFILTRATION TRENCH	63 SF	1/C5.4
	HMA SURFACING TYPE B	48,920 SF	1/C3.0
	CEMENT CONCRETE PAVEMENT A	1,990 SF	5/C3.0
	GRAVEL BACKFILL FOR DRAINS	50 SF	2/C3.13



BID SET

811 Call 811 two business days before you dig

SHEET 20 OF 119

PRIVATE IMPROVEMENTS

1021435 PERMIT #

COUNTY ENGINEER _____ DATE _____

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-7S

1. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48-HOURS IN ADVANCE OF THE START OF CONSTRUCTION. CONTACT Dennis Patterson , THE AREA INSPECTOR, AT 253-798- 2539 .
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DRAWN	JH	6/20/25
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STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/18/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

SITE PLAN - WELCOME CENTER LOOP

C1.0

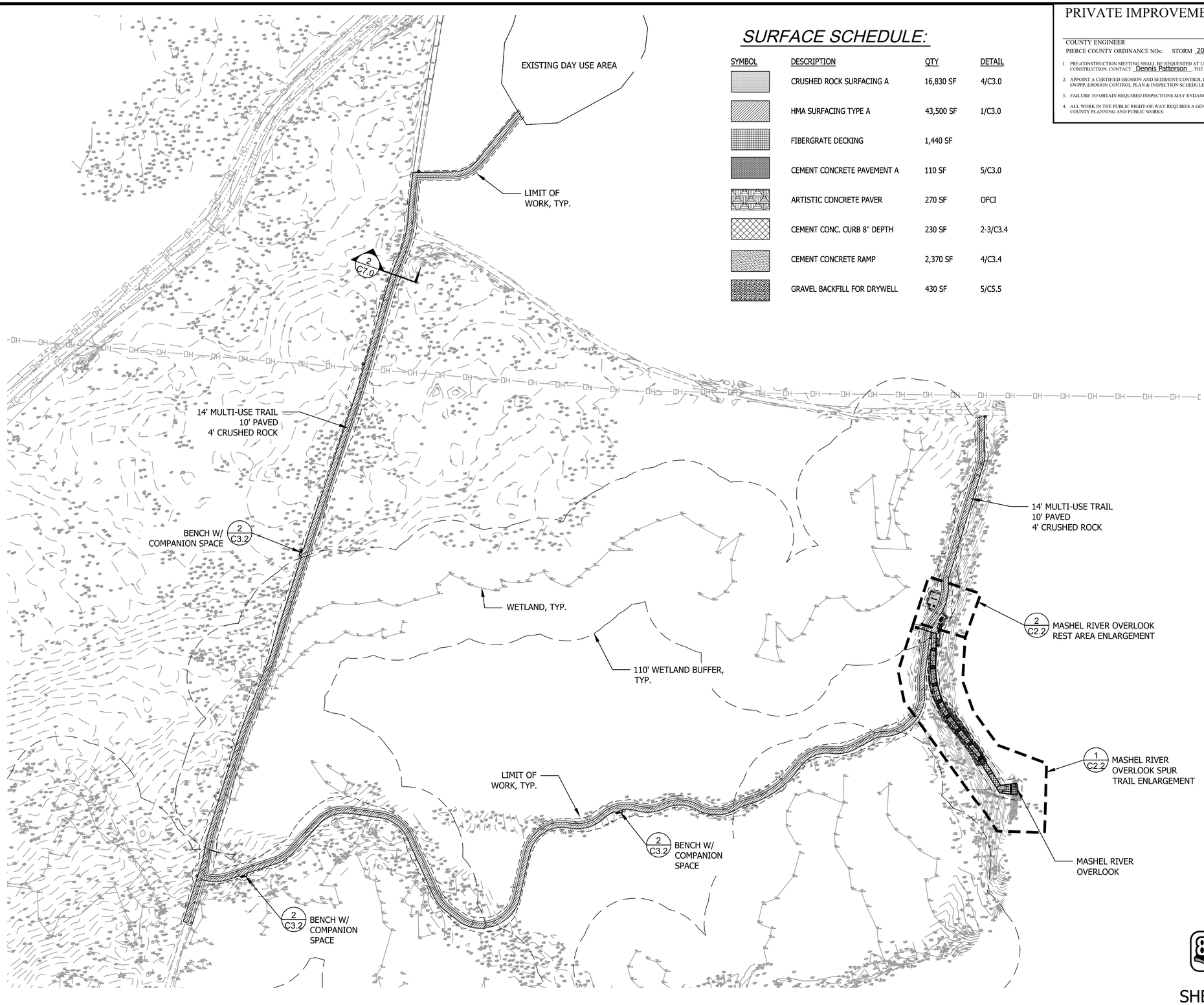
SCALE

SCALE: 1"=60'

0 30' 60' 90' 120'

PARKS FILE#

O:\2018\18062A New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\C1.0 Site Plan - WC.dwg
Jun-03-25 3:08pm



SURFACE SCHEDULE:

SYMBOL	DESCRIPTION	QTY	DETAIL
	CRUSHED ROCK SURFACING A	16,830 SF	4/C3.0
	HMA SURFACING TYPE A	43,500 SF	1/C3.0
	FIBERGRATE DECKING	1,440 SF	
	CEMENT CONCRETE PAVEMENT A	110 SF	5/C3.0
	ARTISTIC CONCRETE PAVER	270 SF	OFCI
	CEMENT CONC. CURB 8" DEPTH	230 SF	2-3/C3.4
	CEMENT CONCRETE RAMP	2,370 SF	4/C3.4
	GRAVEL BACKFILL FOR DRYWELL	430 SF	5/C5.5

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

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BID SET

811 Call 811 two business days before you dig

SHEET 21 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JH	6/20/25
DRAWN	JH	6/20/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · LICENSED LANDSCAPE ARCHITECT · No. 24012362 EXP 05/16/2026

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

SITE PLAN - MASHEL RIVER OVERLOOK TRAIL

C1.1

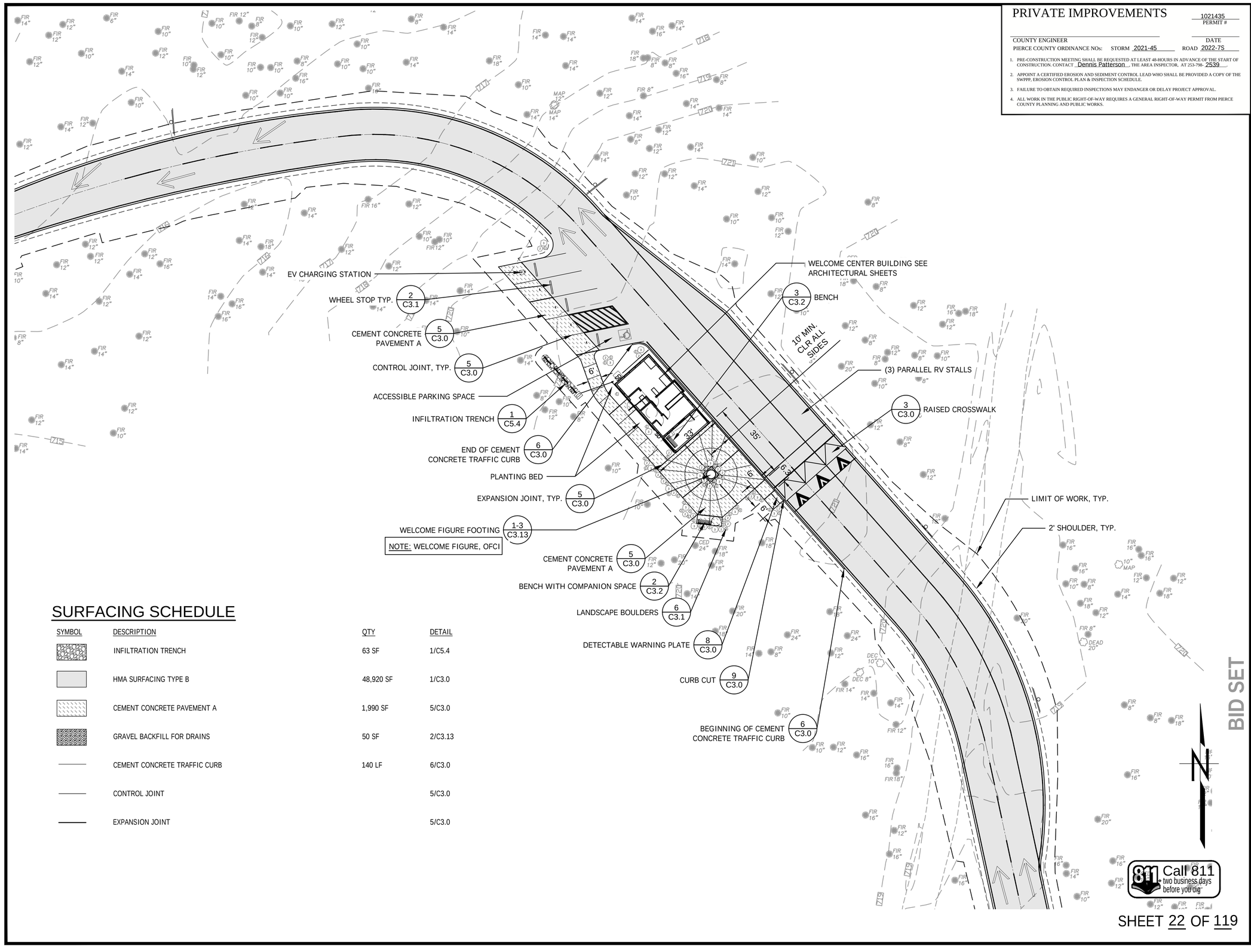
SCALE

SCALE: 1"=100'

0 50' 100' 150' 200'

PARKS FILE#

O:\2018\180626 New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\C1.1 Site Plan - MRO.dwg
May-05-25 10:38am


EV CHARGING STATION
WHEEL STOP TYP. 2 C3.1
CEMENT CONCRETE PAVEMENT A 5 C3.0
CONTROL JOINT, TYP. 5 C3.0
ACCESSIBLE PARKING SPACE
INFILTRATION TRENCH 1 C5.4
END OF CEMENT CONCRETE TRAFFIC CURB 6 C3.0
PLANTING BED
EXPANSION JOINT, TYP. 5 C3.0
WELCOME FIGURE FOOTING 1-3 C3.13
NOTE: WELCOME FIGURE, OFCI
CEMENT CONCRETE PAVEMENT A 5 C3.0
BENCH WITH COMPANION SPACE 2 C3.2
LANDSCAPE BOULDERS 6 C3.1
DETECTABLE WARNING PLATE 8 C3.0
CURB CUT 9 C3.0
BEGINNING OF CEMENT CONCRETE TRAFFIC CURB 6 C3.0
WELCOME CENTER BUILDING SEE ARCHITECTURAL SHEETS
3 C3.2 BENCH
10' MIN. CLR ALL SIDES
(3) PARALLEL RV STALLS
3 C3.0 RAISED CROSSWALK
LIMIT OF WORK, TYP.
2' SHOULDER, TYP.
35'
33'
24'
6'
9'
6'
6'
6

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

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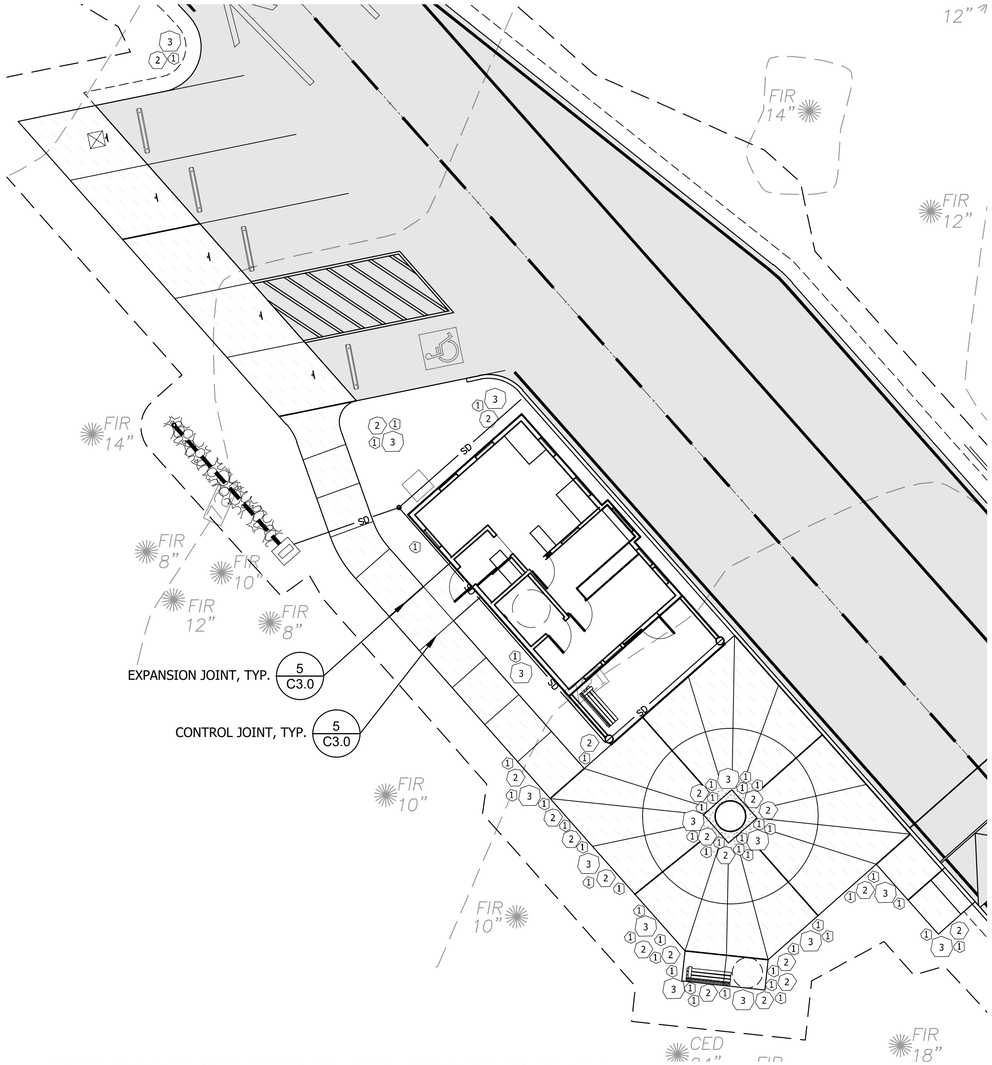
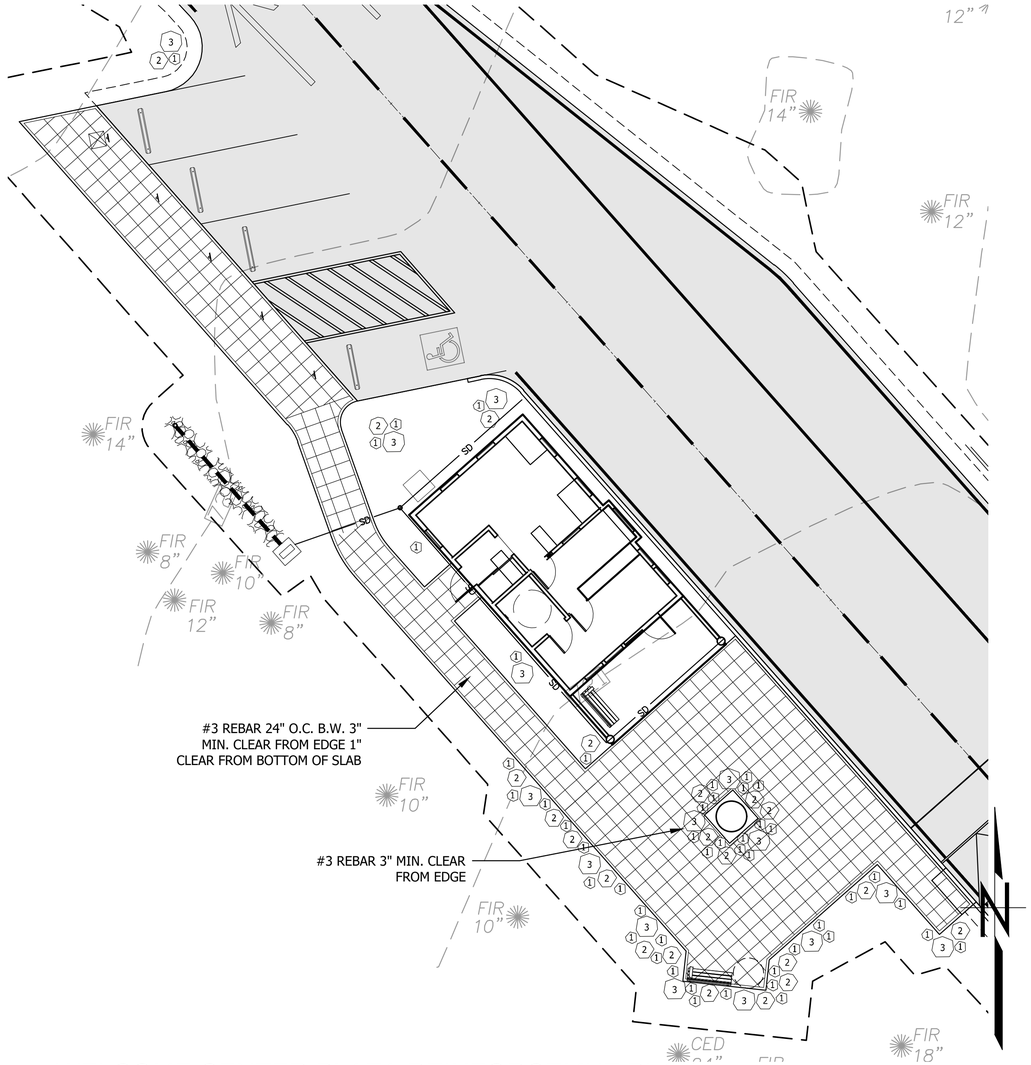


1 C2.1 *WELCOME CENTER PLAZA SCORING PLAN*
SCALE: 1" = 10'-0"



2 C2.1 *WELCOME CENTER PLAZA REINFORCEMNT PLAN*
SCALE: 1" = 10'-0"

811 Call 811 two business days before you dig

BID SET

SHEET 23 OF 119

CAD NO.		
		DATE
		APP.
		INT.
		REVISIONS
		NO.

ACTION	BY	DATE
DESIGNED	JH	6/20/25
DRAWN	JH	6/20/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/16/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

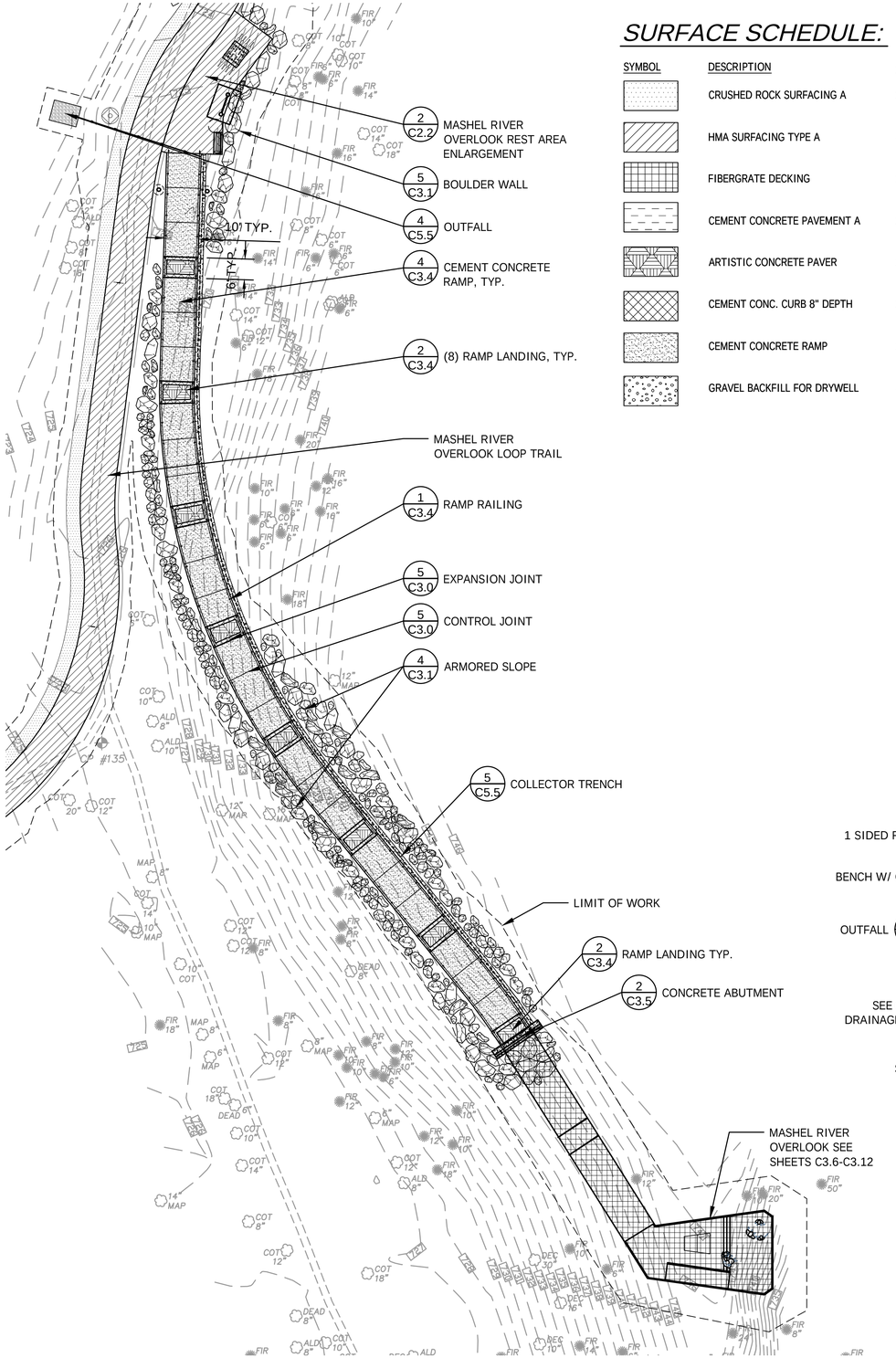
SITE PLAN ENLARGEMENT - WELCOME CENTER PAVING

C2.1

SCALE
SCALE: 1”=10’
0 5’ 10’ 15’ 20’

PARKS FILE#

O:\2018\180624 New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\C2.0 Site Plan Enlargement - WC.dwg
May-05-25 10:41am



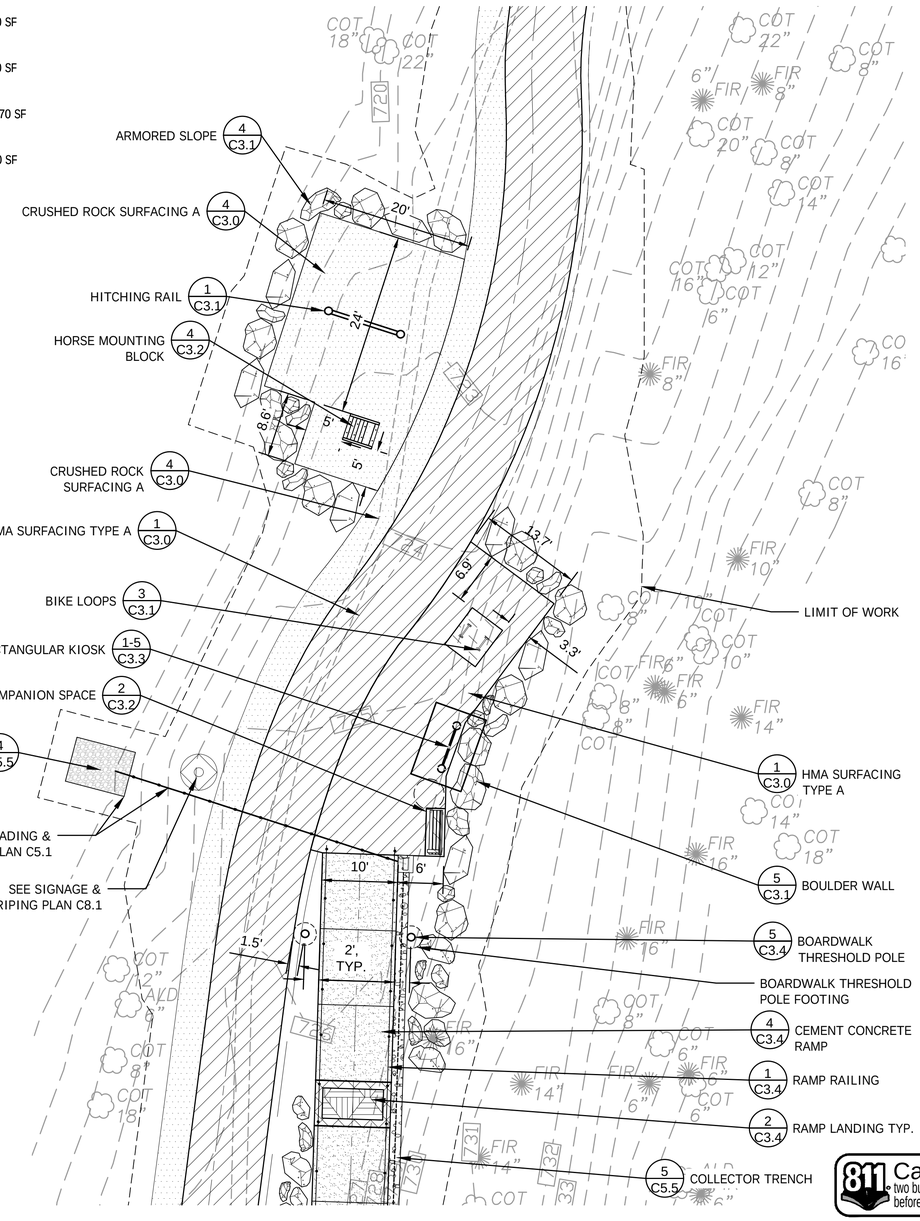
1 C2.2 *MASHEL RIVER OVERLOOK SPUR TRAIL ENLARGEMENT*
SCALE: 1" = 20'-0"

SURFACE SCHEDULE:

SYMBOL	DESCRIPTION	QTY
	CRUSHED ROCK SURFACING A	16,830 SF
	HMA SURFACING TYPE A	43,500 SF
	FIBERGRATE DECKING	1,440 SF
	CEMENT CONCRETE PAVEMENT A	110 SF
	ARTISTIC CONCRETE PAVER	270 SF
	CEMENT CONC. CURB 8" DEPTH	230 SF
	CEMENT CONCRETE RAMP	2,370 SF
	GRAVEL BACKFILL FOR DRYWELL	430 SF

NOTES:

QUANTITIES PROVIDED FOR CONTRACTOR INFORMATION ONLY. CONTRACTOR SHALL DERIVE THEIR OWN QUANTITIES.



2 C2.2 *MASHEL RIVER OVERLOOK REST AREA ENLARGEMENT*
SCALE: 1" = 10'-0"

BID SET

PRIVATE IMPROVEMENTS

PERMIT # 1021435

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

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STATE OF WASHINGTON · JONAH HAYES · No. 24012382 EXP. 05/16/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

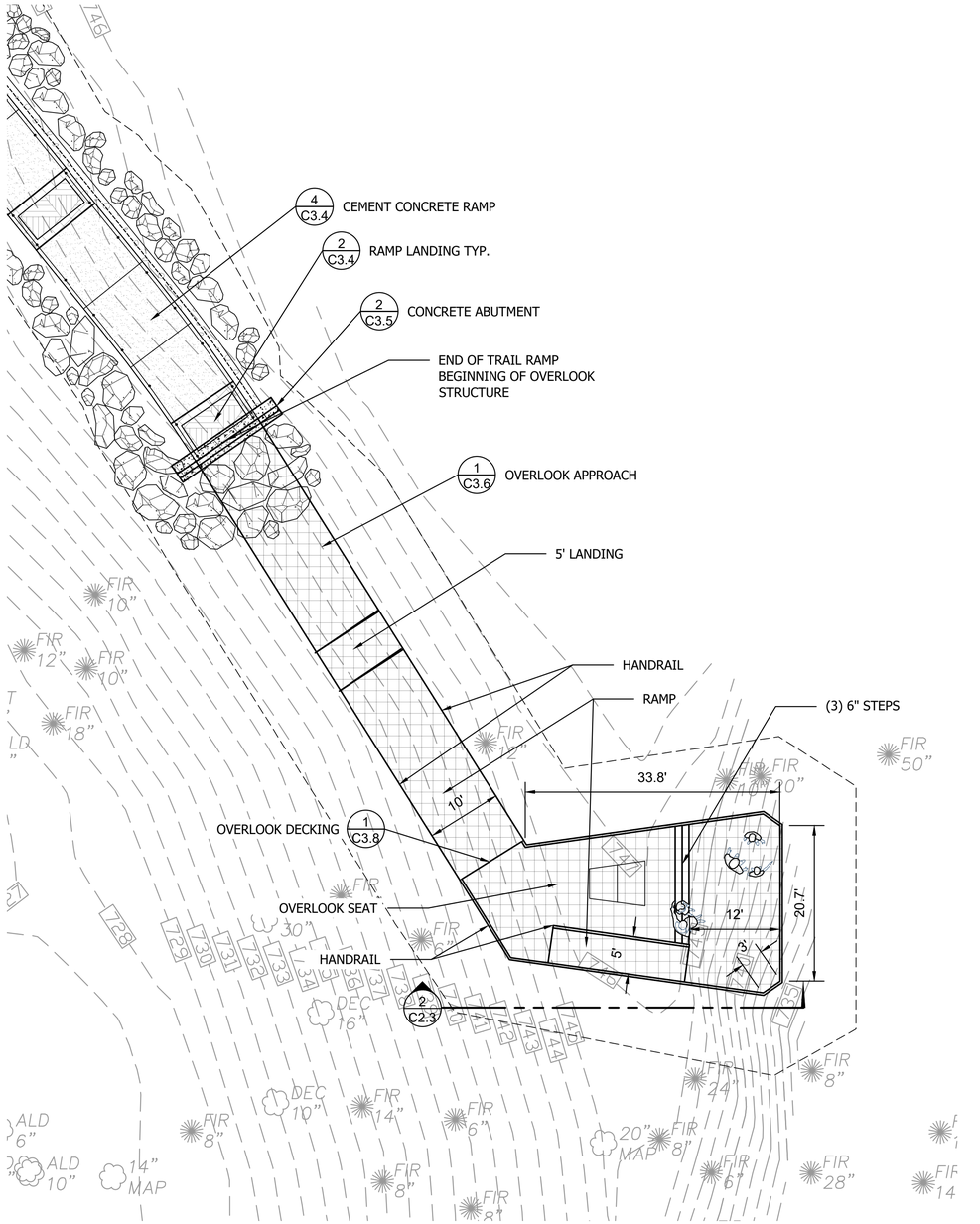
PHASE 3B WELCOME CENTER AND LOOP TRAIL SITE PLAN ENLARGEMENT - MASHEL RIVER OVERLOOK TRAIL C2.2

SCALE *AS SHOWN*

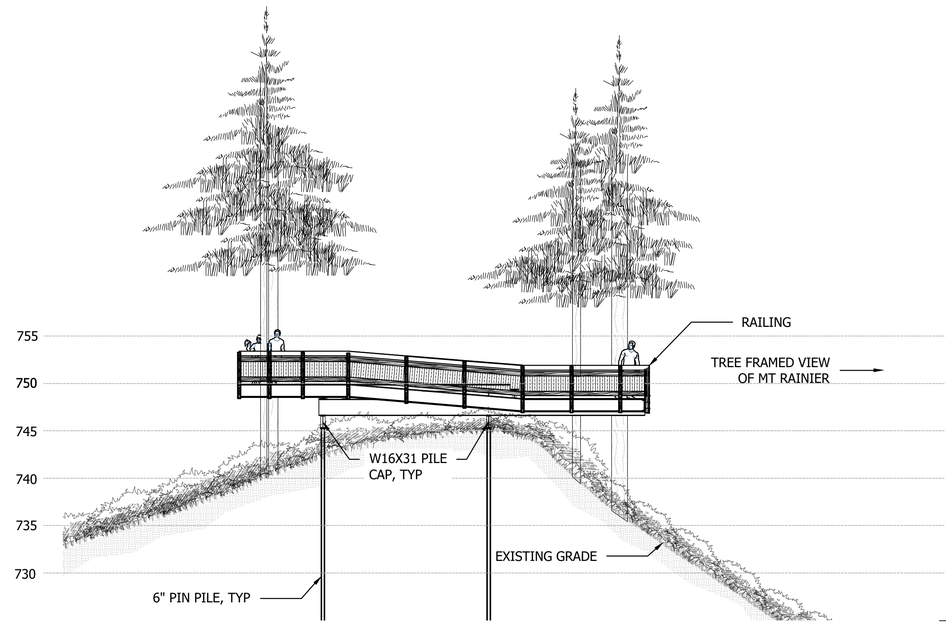
PARKS FILE#

811 Call 811 two business days before you dig

O:\2018\18062A New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\C1.1 Site Plan - MRO.dwg
Jun-03-25 2:34pm



1 C2.3 *MASHEL RIVER OVERLOOK ENLARGEMENT*
SCALE: 1" = 10'-0"



2 C2.3 *MASHEL RIVER OVERLOOK SECTION*
SCALE: 1/8" = 1'-0"

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

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BID SET

811 Call 811 two business days before you dig

SHEET 25 OF 119

CAD NO.

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REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

SITE PLAN ENLARGEMENT - MASHEL RIVER OVERLOOK
C2.3

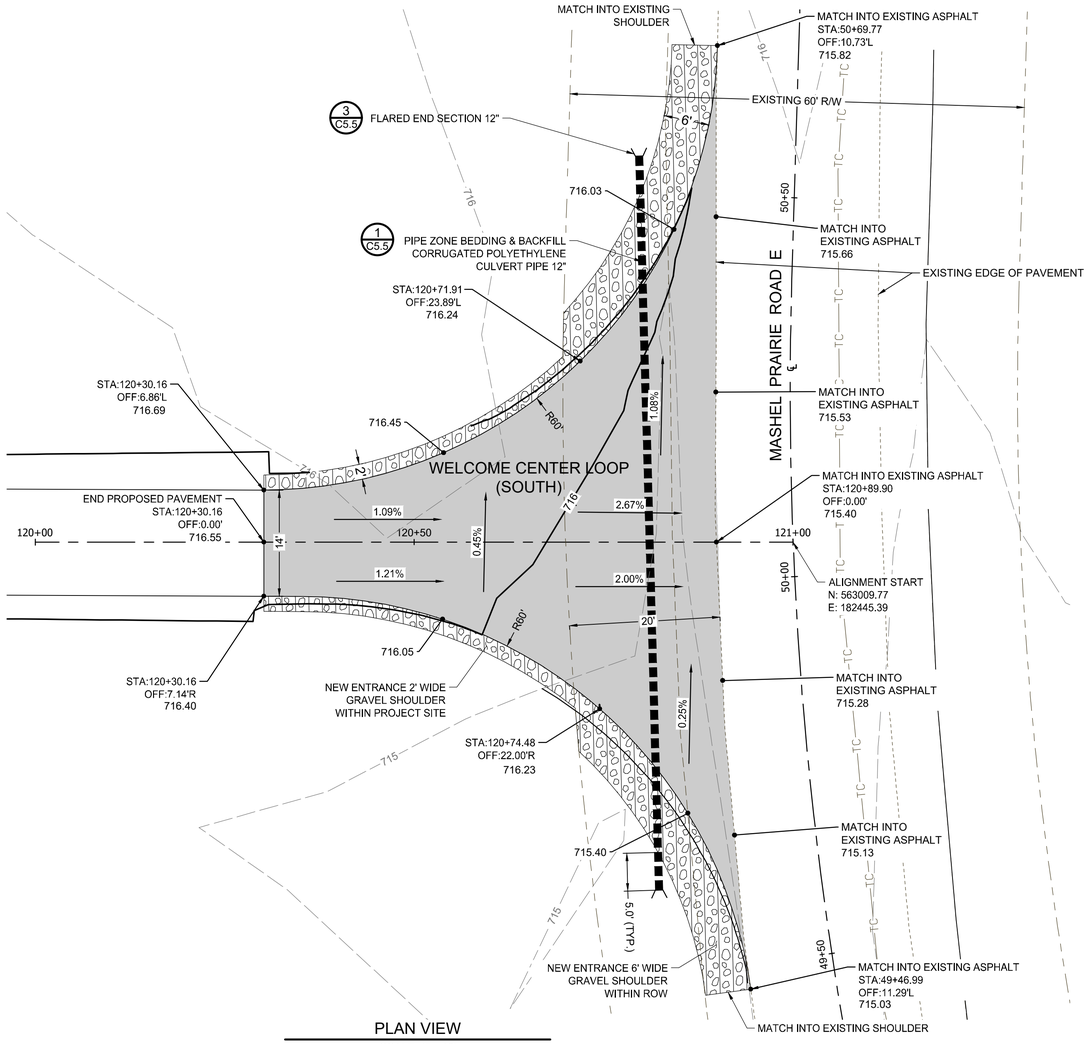
SCALE
AS SHOWN

PARKS FILE#

O:\2018\18062A New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\C1.1 Site Plan - MRO.dwg
May-05-25 10:45am

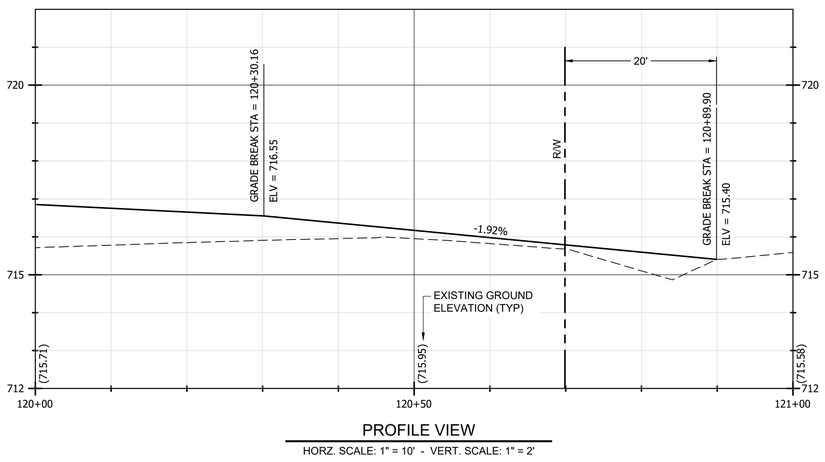
NOTES:

1. FOR DRIVEWAY APPROACH SEE DETAIL A, SHEET C2.6.
2. FOR DRIVEWAY ASPHALT SECTION SEE DETAIL B, SHEET C2.6.
3. CONTRACTOR SHALL COMPLETE DRIVEWAY APPROACH AND SITE WORK IN UNISON. IF SITE WORK IS DELAYED THEN CONTRACTOR SHALL GRADE (2:1 MAX) FROM THE DRIVEWAY TO EXISTING GRADES.



PLAN VIEW

SCALE: 1" = 10'



PROFILE VIEW

HORZ. SCALE: 1" = 10' - VERT. SCALE: 1" = 2'

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

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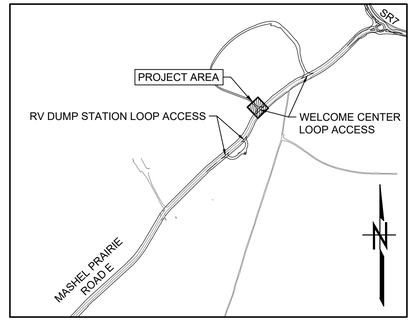


KEY MAP

SCALE: 1" = 800'

LEGEND

- EXISTING RIGHT-OF-WAY LINE
- ALIGNMENT LINE
- SAWCUT LINE
- PROPOSED CONTOUR — XXX
- SLOPE ARROW — X%
- PROPOSED ASPHALT DRIVEWAY
- 2' WIDE PROPOSED GRAVEL SHOULDER
- EXISTING ASPHALT PAVING
- EXISTING GRAVEL SHOULDER
- EXISTING EVERGREEN TREE
- EXISTING DECIDUOUS TREE
- EXISTING TELECOMMUNICATIONS PEDESTAL — T
- EXISTING OVERHEAD POWER POLE — P
- EXISTING POWER POLE ANCHOR
- EXISTING POWER JUNCTION BOX — J
- EXISTING POWER GUIDE POLE — GP
- EXISTING MAILBOX
- EXISTING TELECOM LINE — TC TC TC
- EXISTING CONTOUR — XXX
- EXISTING CENTERLINE
- EXISTING EDGE OF PAVEMENT

BID SET

811 Call 811 two business days before you dig

SHEET 26 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEPHEN DENNIS SCHMITZ — STATE OF WASHINGTON — 48228 — REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER AND LOOP TRAIL

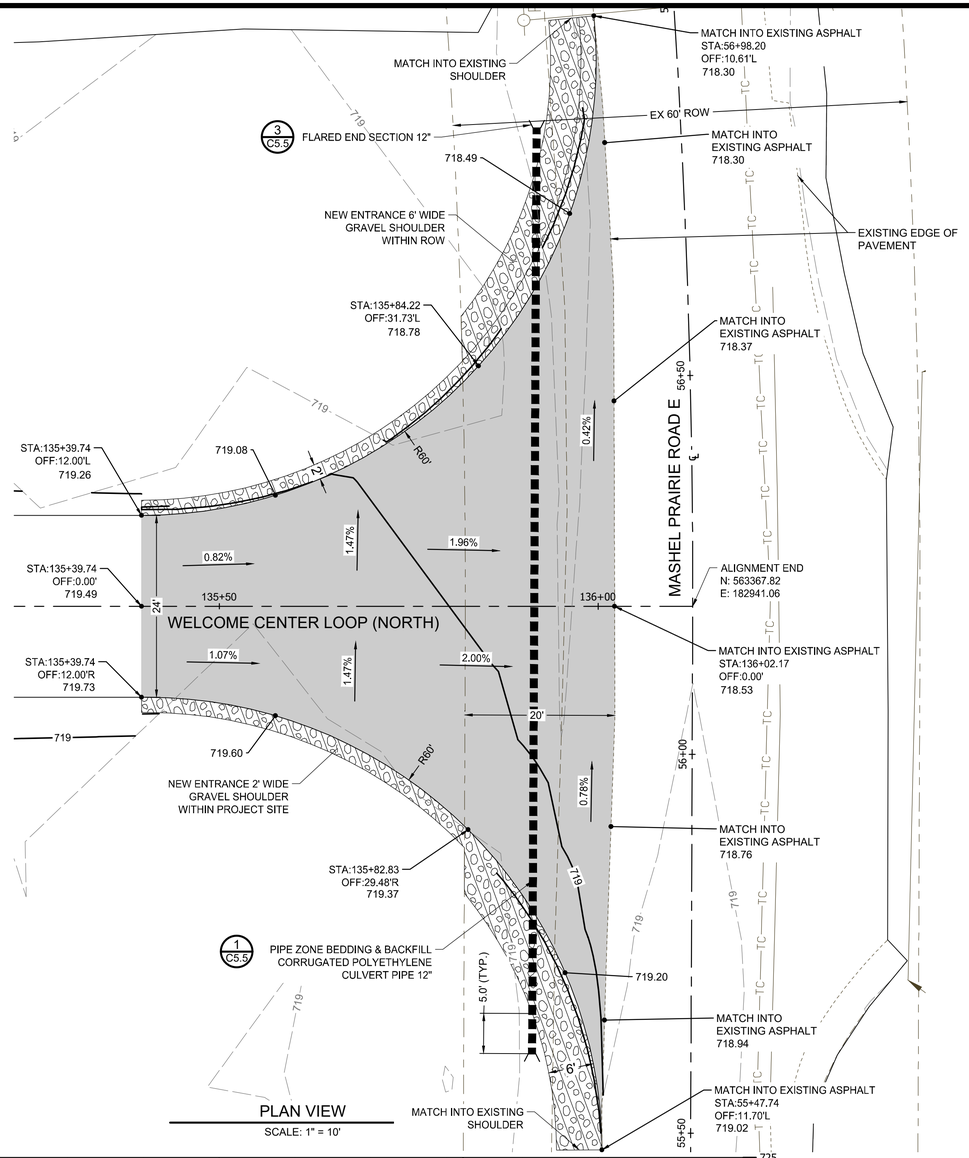
ACCESS PLAN - WELCOME CENTER LOOP (SOUTH)

C2.4

SCALE 10
0 SCALE IN FEET 20

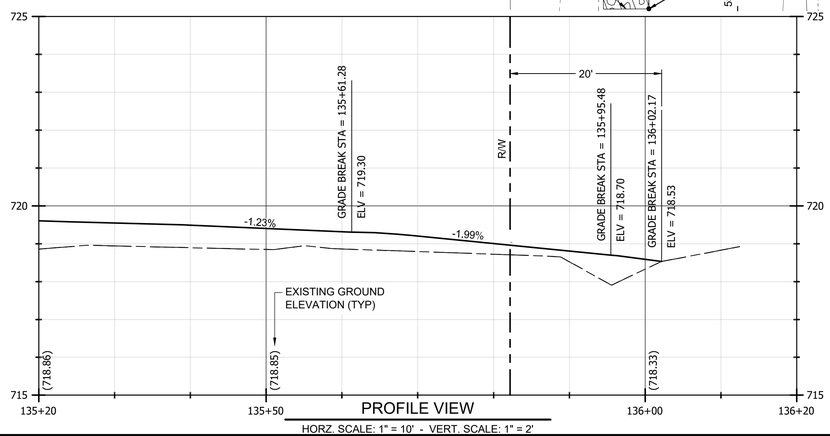
PARKS FILE#

I:\2019\10181900030 - nisqually state park\CADD\DWG\PHASE 3\Campground Sheets\WSP - Phase III\C2.01 THRU C2.05 - ACCESS PLAN & PROFILES.dwg
Jun-04-25 8:06am



PLAN VIEW

SCALE: 1" = 10'



PROFILE VIEW

HORZ. SCALE: 1" = 10' - VERT. SCALE: 1" = 2'

NOTES:

1. FOR DRIVEWAY APPROACH SEE DETAIL A, SHEET C2.6.
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PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

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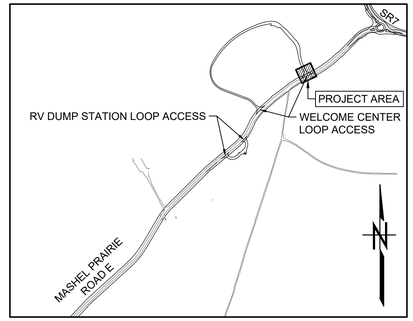


KEY MAP

SCALE: 1" = 800'

LEGEND

- EXISTING RIGHT-OF-WAY LINE
- ALIGNMENT LINE
- SAWCUT LINE
- PROPOSED CONTOUR — XXX
- SLOPE ARROW — X%
- PROPOSED ASPHALT DRIVEWAY
- 2' WIDE PROPOSED GRAVEL SHOULDER
- EXISTING ASPHALT PAVING
- EXISTING GRAVEL SHOULDER
- EXISTING EVERGREEN TREE
- EXISTING DECIDUOUS TREE
- EXISTING TELECOMMUNICATIONS PEDESTAL — T
- EXISTING OVERHEAD POWER POLE — P
- EXISTING POWER POLE ANCHOR
- EXISTING POWER JUNCTION BOX — J
- EXISTING POWER GUIDE POLE — GP
- EXISTING MAILBOX
- EXISTING TELECOM LINE — TC TC TC
- EXISTING CONTOUR — XXX
- EXISTING CENTERLINE
- EXISTING EDGE OF PAVEMENT

BID SET

811 Call 811 two business days before you dig

SHEET 27 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEVEN DENNIS SCHMITZ — STATE OF WASHINGTON — 48228 — REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

ACCESS PLAN - WELCOME CENTER LOOP (NORTH)

C2.5

SCALE 10 — 0 SCALE IN FEET 20

PARKS FILE#

I:\2019\1018190030 - nisqually state park\CAD\DWG\PHASE 3\Campground Sheets\NSP - Phase II\C2.01 THRU C2.05 - ACCESS PLAN & PROFILES.dwg
Jun-04-25 8:06am

GEOTECHNICAL INFORMATION

1. FOR COMPLETE GEOTECHNICAL INFORMATION REFER TO THE FOLLOWING REPORTS PREPARED BY GEOENGINEERS:
   - AREA 5 - CAMPGROUND DATED OCTOBER 18, 2021
   - PROPOSED MASHEL OVERLOOK DATED NOVEMBER 5, 2021
   - PROPOSED WATER TANK DATED JUNE 10, 2022
   - PROPOSED WASTEWATER TREATMENT PLANT AND SANITARY SEWER LINE DATED OCTOBER 21, 2021

2. GROUNDWATER SEEPAGE WAS NOT OBSERVED IN THE OTHER TEST PITS. GROUNDWATER LEVELS AT THE SITE ARE EXPECTED TO VARY WITH THE SEASON, PRECIPITATION AND THE DEPTH TO IMPERMEABLE LAYERS BENEATH THE OUTWASH MATERIAL.

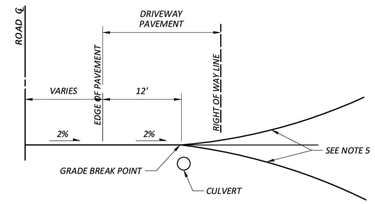
3. BOULDERS AND LARGE COBBLES WERE ENCOUNTERED IN THE EXPLORATIONS AND SHOULD BE ANTICIPATED DURING GRADING AND/OR UTILITY EXCAVATIONS. THE CONTRACTOR SHOULD BE PREPARED TO REMOVE BOULDERS, IF ENCOUNTERED.

4. THE NEAR-SURFACE GLACIAL DRIFT SOILS CONTAIN A MODERATE PERCENTAGE OF FINES AND ARE SENSITIVE TO SMALL CHANGES IN MOISTURE CONTENT. THESE SOILS ARE SUSCEPTIBLE TO DISTURBANCE FROM CONSTRUCTION TRAFFIC WHEN THE MOISTURE CONTENT IS MORE THAN A FEW PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT FOR COMPACTION. THESE SOILS WILL BE DIFFICULT, IF NOT IMPOSSIBLE, TO WORK OR COMPACT WHEN WET OR IF EARTHWORK IS PERFORMED IN WET WEATHER.

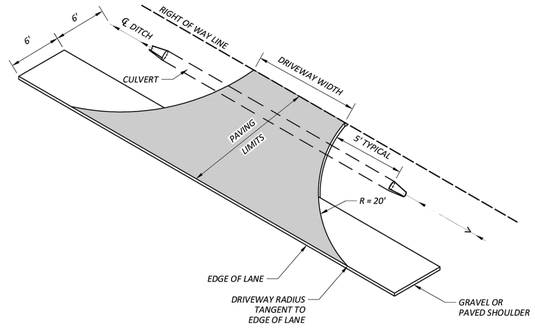
5. THE NEAR-SURFACE GLACIAL DRIFT SOILS NOT BE CONSIDERED FOR RE-USE AS STRUCTURAL FILL. THE RELATIVELY CLEAN OUTWASH SOILS ENCOUNTERED IN OUR EXPLORATIONS MAY BE SUITED FOR USE AS STRUCTURAL FILL DURING WET AND DRY WEATHER CONDITIONS.

   THE OUTWASH SOILS ENCOUNTERED BELOW A DEPTH OF ABOUT 2 TO 5 FEET CONTAIN A LOW PERCENTAGE OF FINES. THESE SOILS ARE SUITABLE FOR EARTHWORK UNDER WET AND DRY CONDITIONS. THE NEAR-SURFACE GLACIAL DRIFT SOILS MAY BE CONSIDERED FOR USE AS STRUCTURAL FILL DURING PERIODS OF EXTENDED DRY WEATHER, PROVIDED THEY CAN BE PROPERLY MOISTURE CONDITIONED AND DO NOT CONTAIN AN UNACCEPTABLE AMOUNT OF ORGANIC MATERIALS.

6. ALL NEW FILL IS RECOMMENDED TO BE PLACED BELOW BUILDING, PARKING AND DRIVEWAY AREAS BE PLACED AND COMPACTED AS STRUCTURAL FILL. IN AREAS WHERE THE STRUCTURAL FILL IS TO BE PLACED, THE TOPSOIL AND ROOT MASS MUST BE REMOVED AND THE EXISTING SUBGRADE SOILS SHOULD BE EVALUATED PRIOR TO FILL PLACEMENT TO IDENTIFY SOFT OR UNSUITABLE SOILS THROUGH EITHER PROBING OR BY PROOFROLLING WITH HEAVY, RUBBER-TIRED CONSTRUCTION EQUIPMENT.



CROSS SECTION



NOTES:

1) *DRIVEWAY WIDTH = 24' MINIMUM TO 36' MAXIMUM.*
2) *DRIVEWAY PAVING = 2" MINIMUM COMPACTED DEPTH HOT MIX ASPHALT CL. 1/2 IN. OVER 2" MINIMUM COMPACTED DEPTH CRUSHED SURFACING TOP COURSE, OR 6" MINIMUM CEMENT CONCRETE.*
3) *STORM DRAINAGE FROM DRIVEWAY SHALL NOT BE PERMITTED TO DRAIN ONTO ROADWAY SURFACE, UNLESS ACCOUNTED FOR IN DESIGN.*
4) *DRIVEWAY SHALL NORMALLY BE AT 90 DEGREES TO ROAD CENTERLINE, BUT CAN VARY FROM 75 DEGREES TO 90 DEGREES.*
5) *RECOMMENDED MAXIMUM GRADES +/- 15% BEYOND GRADE BREAK POINT. VERTICAL CURVES NOT TO EXCEED A 3 1/4" CREST OR A 1" SAG IN A 10' CHORD.*
6) *12" MINIMUM DIAMETER CONCRETE CULVERT, LENGTH AS DETERMINED BY WIDTH OF DRIVEWAY, PLUS 5' AT EACH END, WITH BEVELED END SECTIONS.*

(NOT TO SCALE)

Pierce County
Planning & Public Works
Office of the County Engineer

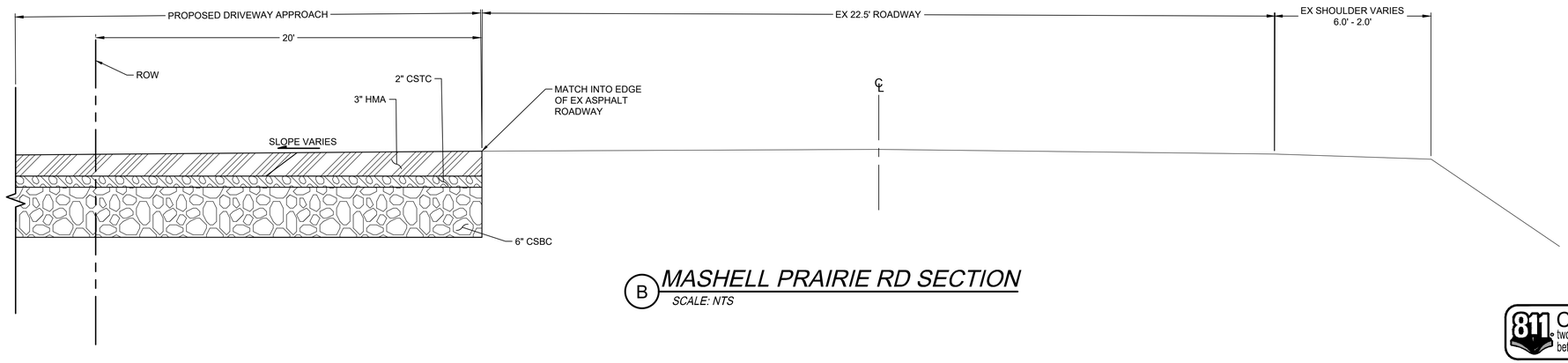
APPROVED BY:
COUNTY ENGINEER
10/17/2022
DATE

MINOR DRIVEWAY APPROACH, SHOULDER AND OPEN DRAINAGE

STANDARD DRAWING PC.F3.1

(A) APPROACH DRIVEWAY DETAIL

SCALE: NTS



(B) MASHELL PRAIRIE RD SECTION

SCALE: NTS

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

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CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEPHEN DENNIS SCHMITZ — STATE OF WASHINGTON — 48228 — REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER AND LOOP TRAIL

ACCESS DETAILS

C2.6

SCALE

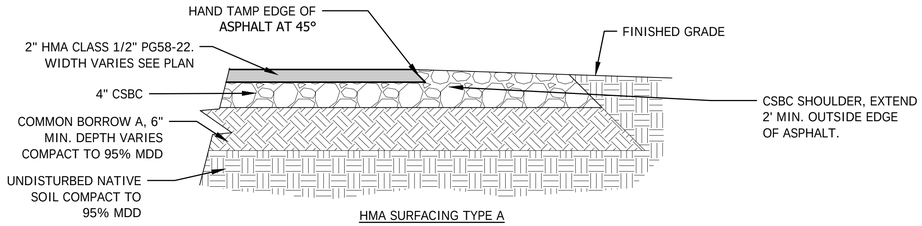
PARKS FILE#

BID SET

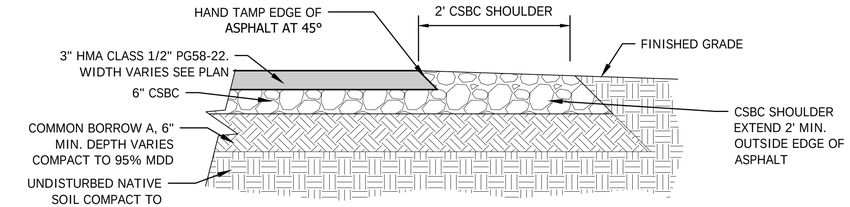
811 Call 811 two business days before you dig

SHEET 28 OF 119

I:\2019\10181900030 - nisqually state park\CADD\DWG\PHASE 3\Campground Sheets\NSP - Phase II\C2.06 - DRIVEWAY NOTES & DETAILS.dwg
Jun-04-25 8:05am



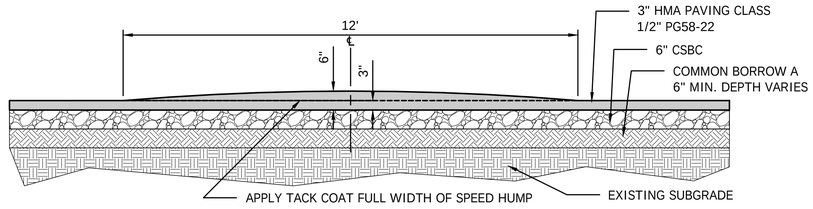
HMA SURFACING TYPE A



HMA SURFACING TYPE B

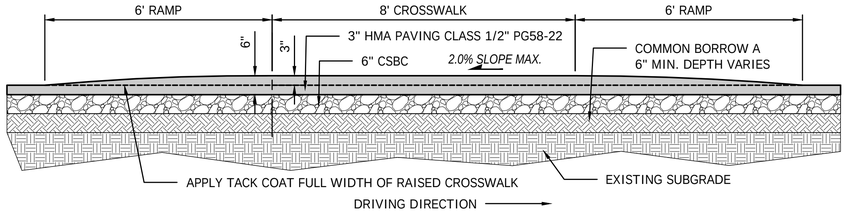
1 C3.0 HMA SURFACING

SCALE: 1" = 1'-0"



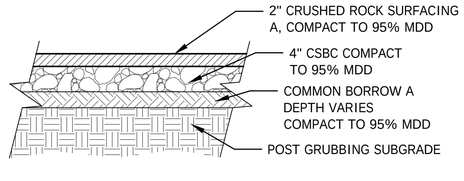
2 C3.0 SPEED HUMP

SCALE: 1/2" = 1'-0"



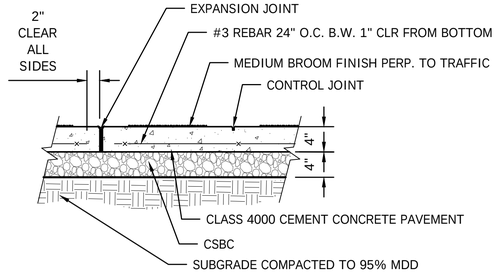
3 C3.0 RAISED CROSSWALK

SCALE: 1/2" = 1'-0"



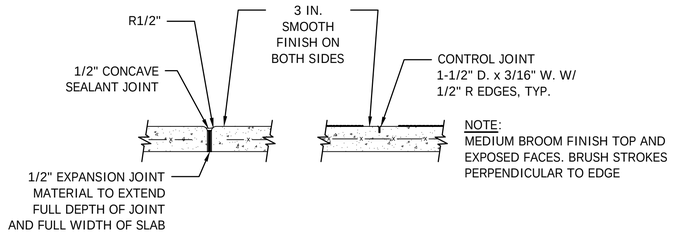
4 C3.0 CRUSHED ROCK SURFACING A

SCALE: 1" = 1'-0"

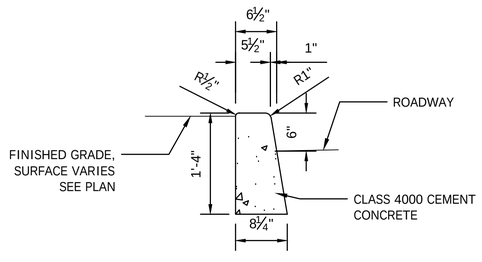


5 C3.0 CEMENT CONCRETE PAVEMENT A

SCALE: 1" = 1'-0"

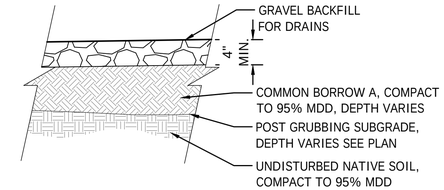


CONTROL AND EXPANSION JOINT



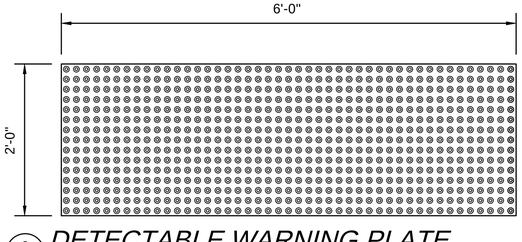
6 C3.0 CEMENT CONCRETE TRAFFIC CURB

SCALE: 1" = 1'-0"



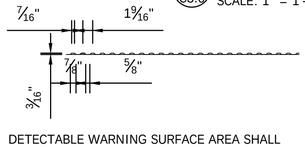
7 C3.0 GRAVEL BACKFILL FOR DRAINS

SCALE: 1" = 1'-0"



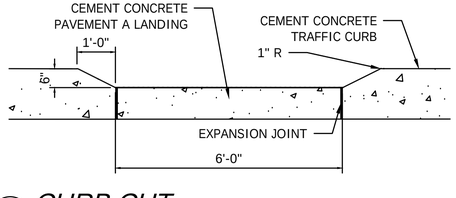
8 C3.0 DETECTABLE WARNING PLATE

SCALE: 1" = 1'-0"



DETECTABLE WARNING SURFACE AREA SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 8-14.2.

DETECTABLE WARNING SURFACES SHALL BE PLACED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 8-14.3(5)



9 C3.0 CURB CUT

SCALE: 1/2" = 1'-0"

PRIVATE IMPROVEMENTS

1021435 PERMIT #

COUNTY ENGINEER — DATE

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BID SET

CAD NO.

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ACTION	BY	DATE
DESIGNED	JH	6/20/25
DRAWN	JH	6/20/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/18/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

SITE DETAILS

C3.0

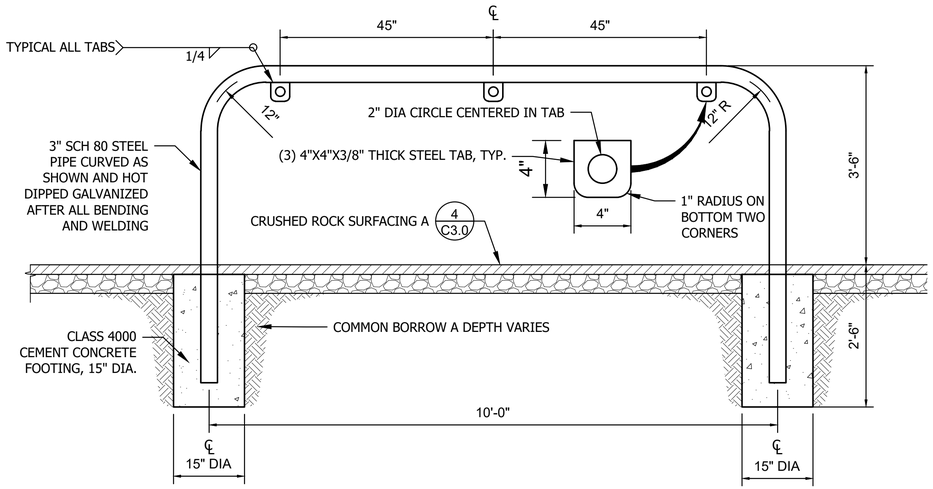
SCALE

AS SHOWN

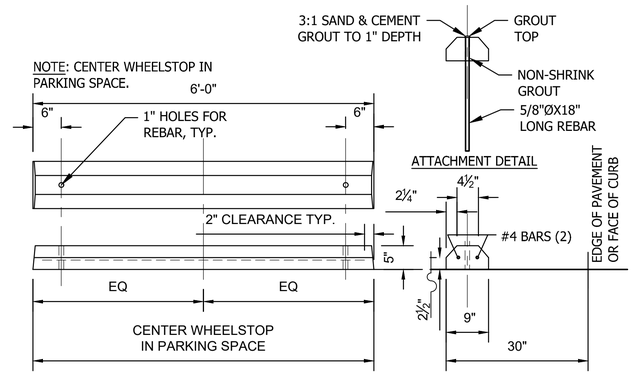
PARKS FILE#

811 Call 811 two business days before you dig

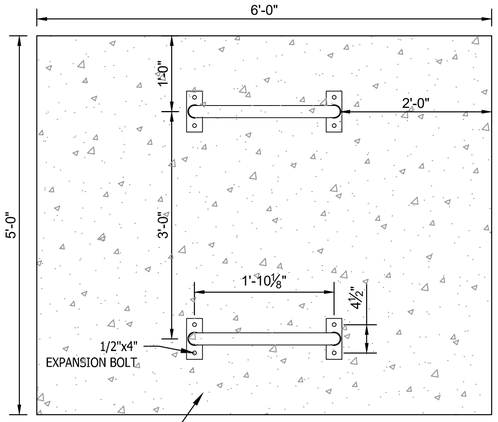
G:\2018\18062A New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\C3.0 Site Details - Surfacing.dwg
Jun-03-25 11:44am



1 C3.1 *HITCHING RAIL*
SCALE: 1" = 1'-0"



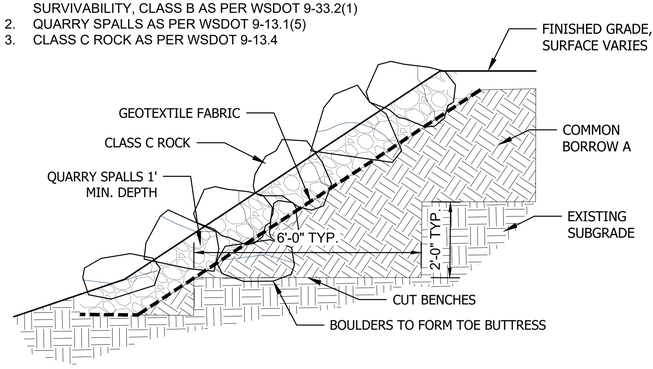
2 C3.1 *WHEELSTOPS*
SCALE: 1" = 1'-0"



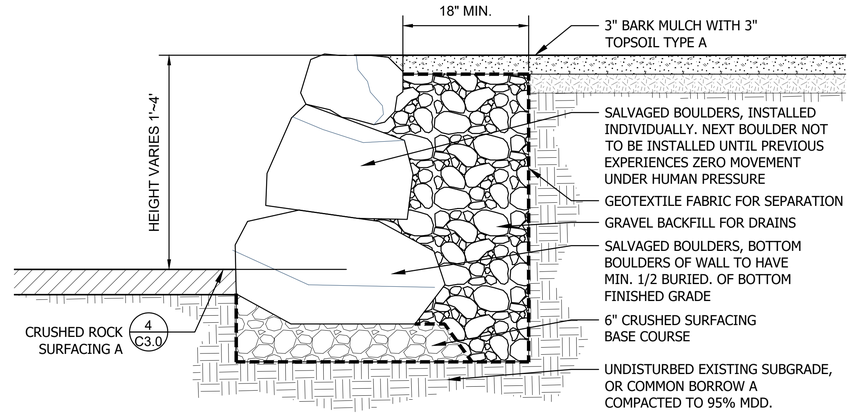
3 C3.1 *BIKE LOOPS*
SCALE: NOT TO SCALE

NOTES

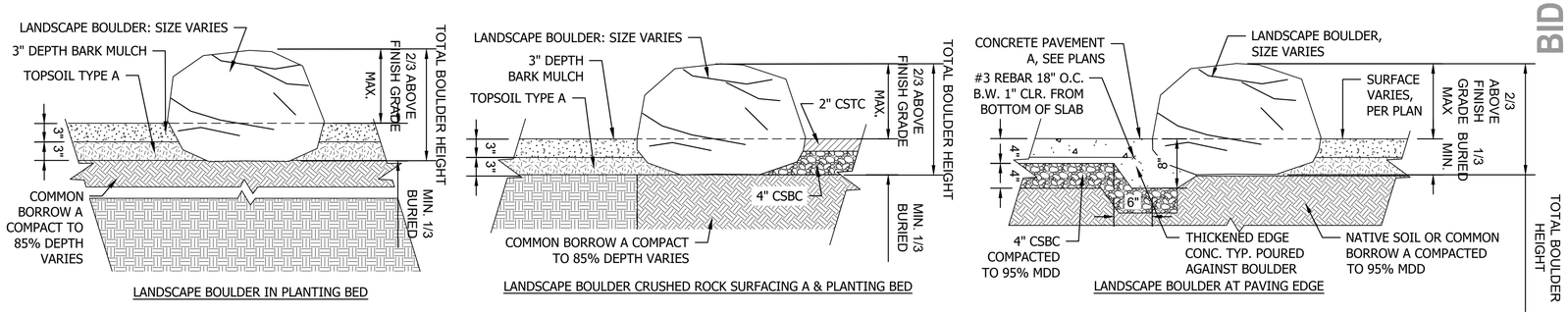
1. GEOTEXTILE TO BE FOR UNDERGROUND DRAINAGE, MODERATE SURVIVABILITY, CLASS B AS PER WSDOT 9-33.2(1)
2. QUARRY SPALLS AS PER WSDOT 9-13.1(5)
3. CLASS C ROCK AS PER WSDOT 9-13.4



4 C3.1 *ARMORED SLOPE*
SCALE: 1/2" = 1'-0"



5 C3.1 *BOULDER WALL*
SCALE: 1" = 1'-0"



6 C3.1 *LANDSCAPE BOULDERS*
SCALE: 1" = 1'-0"

PRIVATE IMPROVEMENTS

1021435
PERMIT #

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STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/18/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

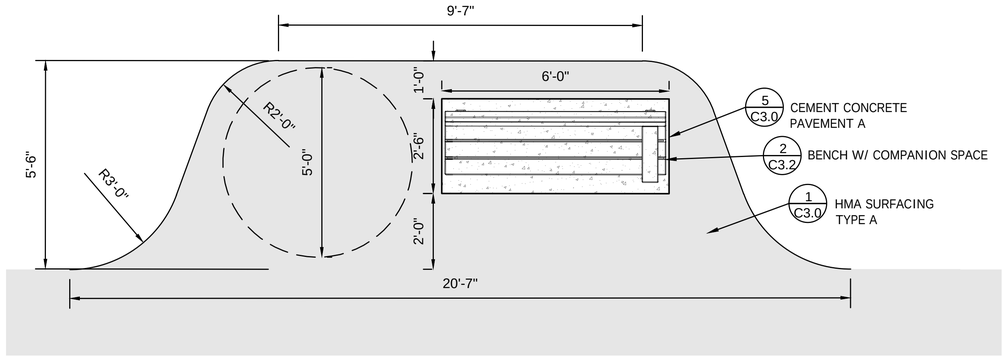
SITE DETAILS

C3.1

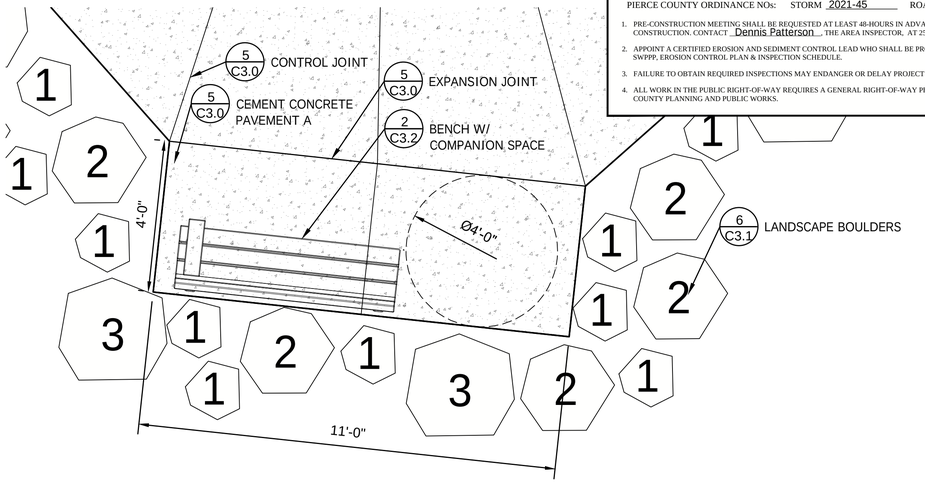
SCALE
AS SHOWN

PARKS FILE#

BID SET



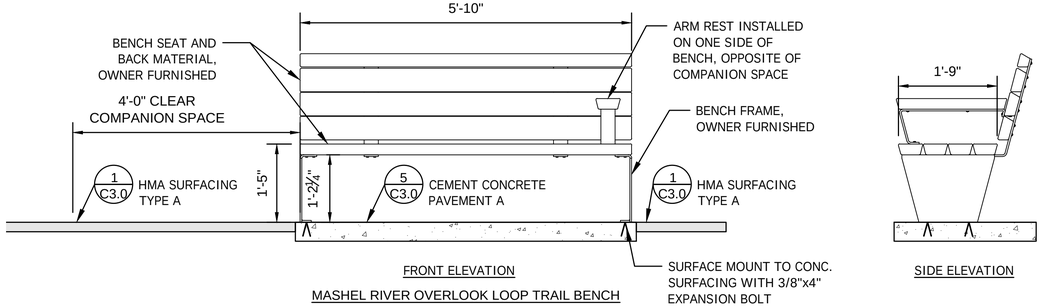
MASHEL RIVER OVERLOOK LOOP TRAIL ENLARGEMENT



WELCOME CENTER ENLARGEMENT

1 C3.2 BENCH LAYOUT ENLARGEMENTS

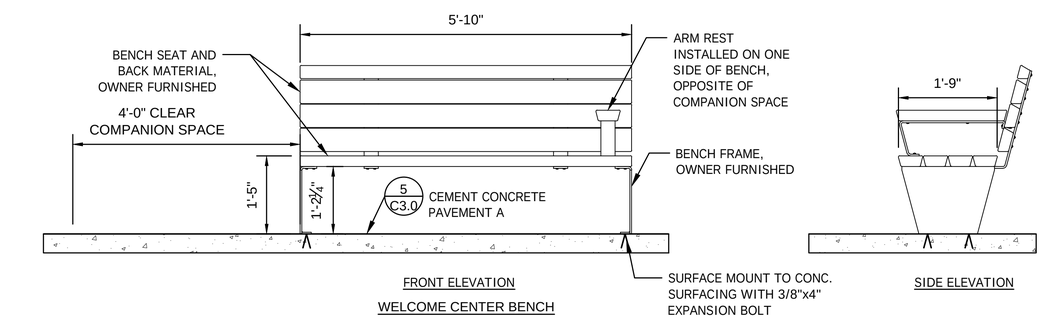
SCALE: 1/2" = 1'-0"



FRONT ELEVATION

SIDE ELEVATION

MASHEL RIVER OVERLOOK LOOP TRAIL BENCH



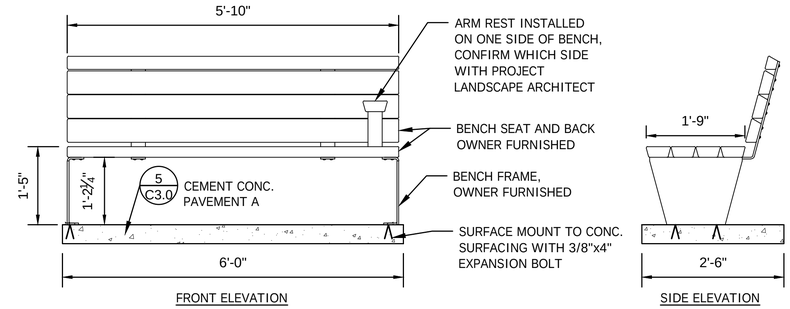
FRONT ELEVATION

SIDE ELEVATION

WELCOME CENTER BENCH

2 C3.2 BENCH W/ COMPANION SPACE

SCALE: 3/4" = 1'-0"

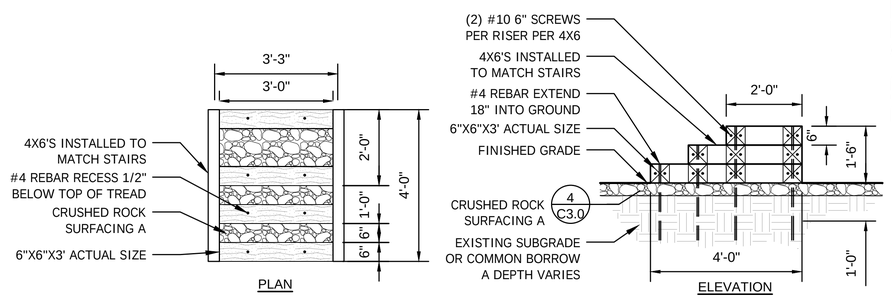


FRONT ELEVATION

SIDE ELEVATION

3 C3.2 BENCH

SCALE: 3/4" = 1'-0"



PLAN

ELEVATION

4 C3.2 HORSE MOUNTING BLOCK

SCALE: 3/4" = 1'-0"

BID SET

PRIVATE IMPROVEMENTS

1021435 PERMIT #

COUNTY ENGINEER _____ DATE _____

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STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/16/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

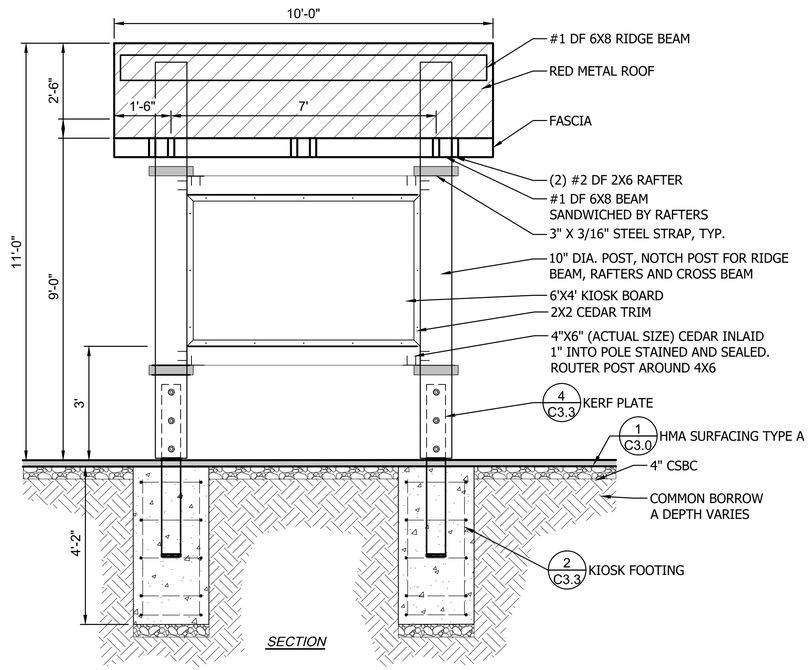
PHASE 3B WELCOME CENTER AND LOOP TRAIL

SITE DETAILS

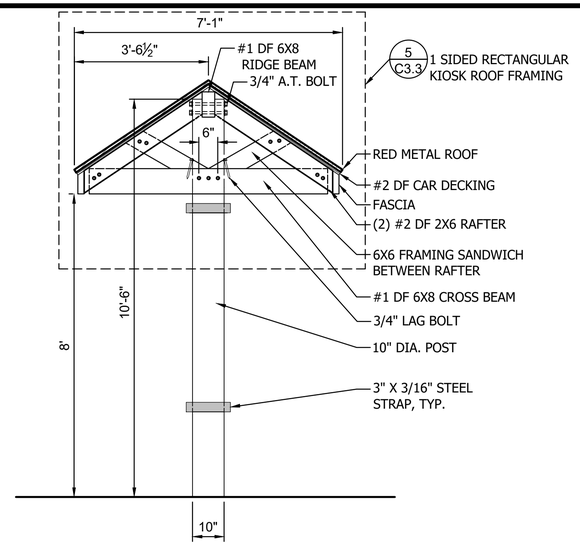
C3.2

SCALE *AS SHOWN*

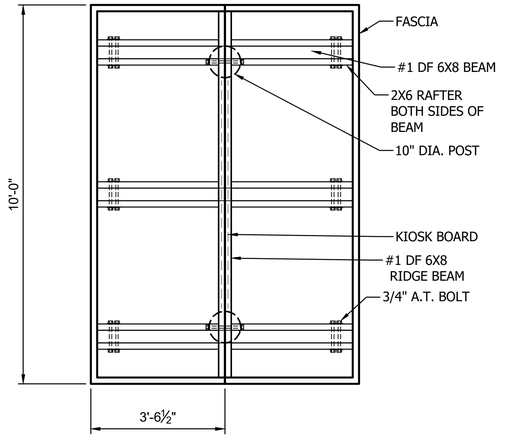
PARKS FILE#



SECTION



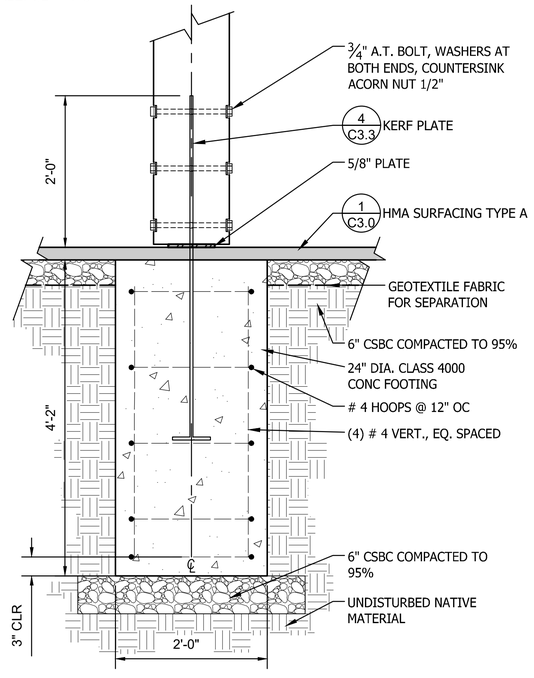
ELEVATION



PLAN

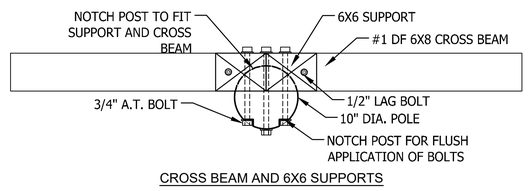
1 C3.3 1 SIDED RECTANGULAR KIOSK

SCALE: 1/2" = 1'-0"

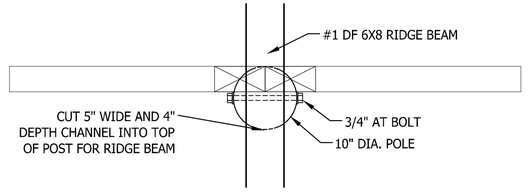


2 C3.3 KIOSK FOOTING

SCALE: 1" = 1'-0"



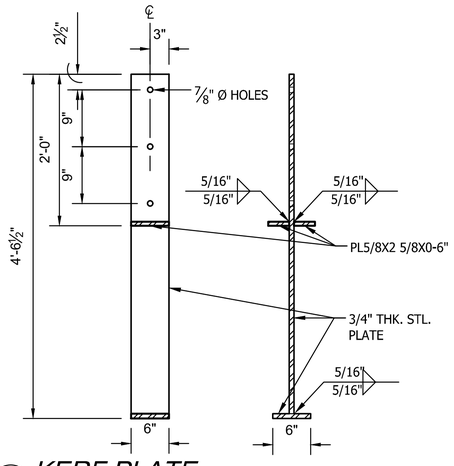
CROSS BEAM AND 6X6 SUPPORTS



RIDGE BEAM AT POST

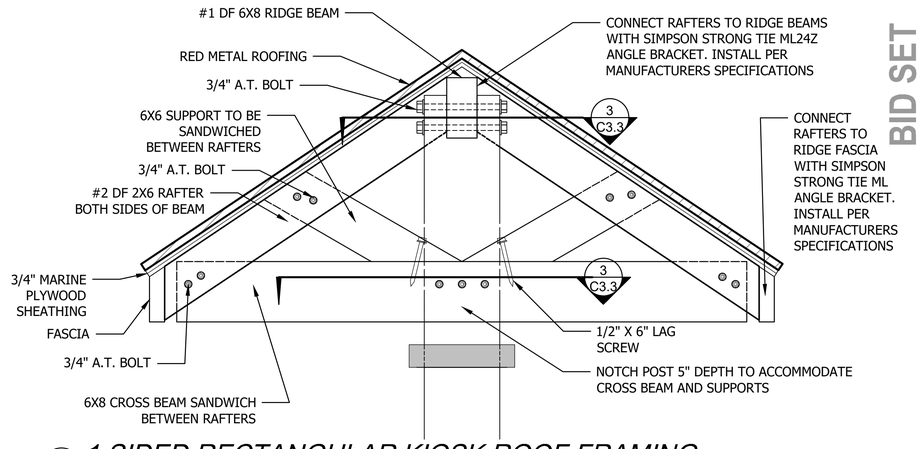
3 C3.3 POST TO SUPPORTS

SCALE: 1" = 1'-0"



4 C3.3 KERF PLATE

SCALE: 1" = 1'-0"



5 C3.3 1 SIDED RECTANGULAR KIOSK ROOF FRAMING

SCALE: 1/4" = 1'-0"

BID SET

PRIVATE IMPROVEMENTS

1021435
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COUNTY ENGINEER — DATE

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CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
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DRAWN	JH	6/20/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012382 EXP. 05/16/2026 · LICENSED LANDSCAPE ARCHITECT ·

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

SITE DETAILS - RECTANGULAR KIOSK

C3.3

SCALE

AS SHOWN

PARKS FILE#

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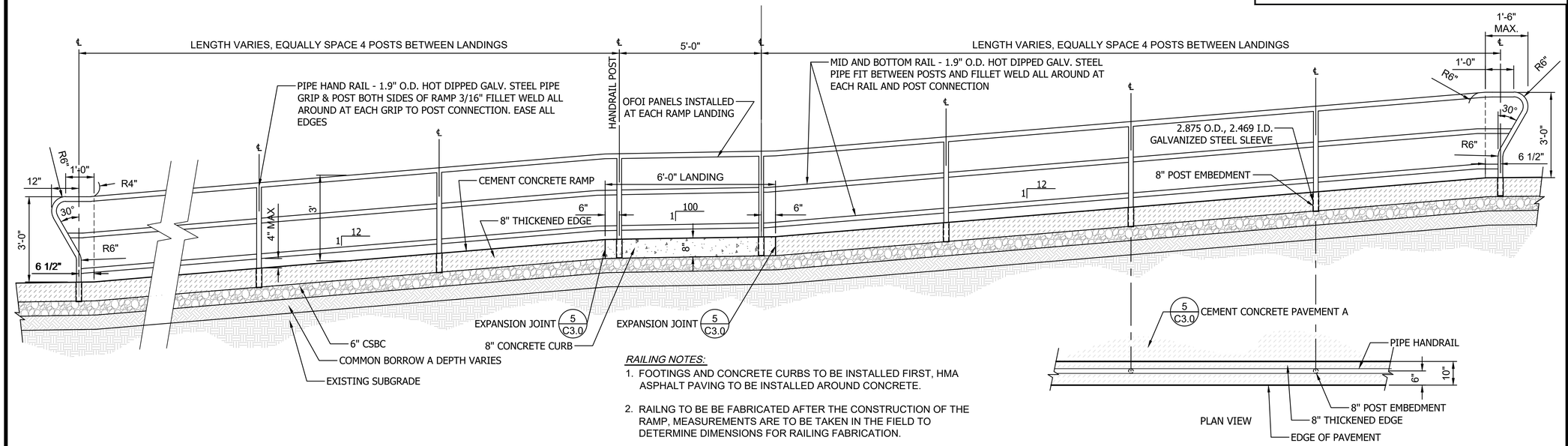
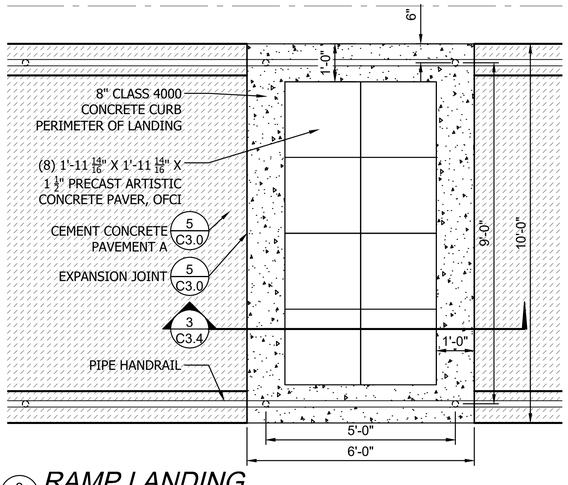


RAILING NOTES:

1. FOOTINGS AND CONCRETE CURBS TO BE INSTALLED FIRST, HMA ASPHALT PAVING TO BE INSTALLED AROUND CONCRETE.
2. RAILNG TO BE BE FABRICATED AFTER THE CONSTRUCTION OF THE RAMP, MEASUREMENTS ARE TO BE TAKEN IN THE FIELD TO DETERMINE DIMENSIONS FOR RAILING FABRICATION.

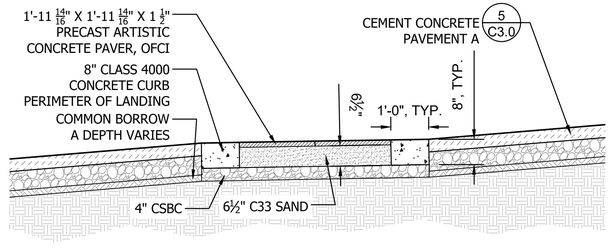
1 C3.4 RAMP RAILING

SCALE: 1/2" = 1'-0"



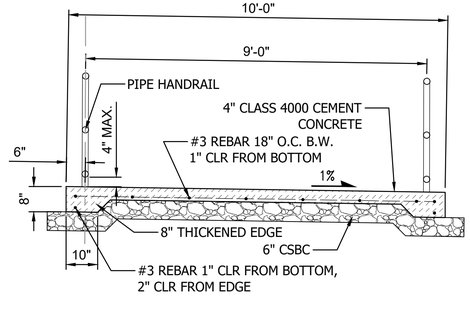
2 C3.4 RAMP LANDING

SCALE: 1/2" = 1'-0"



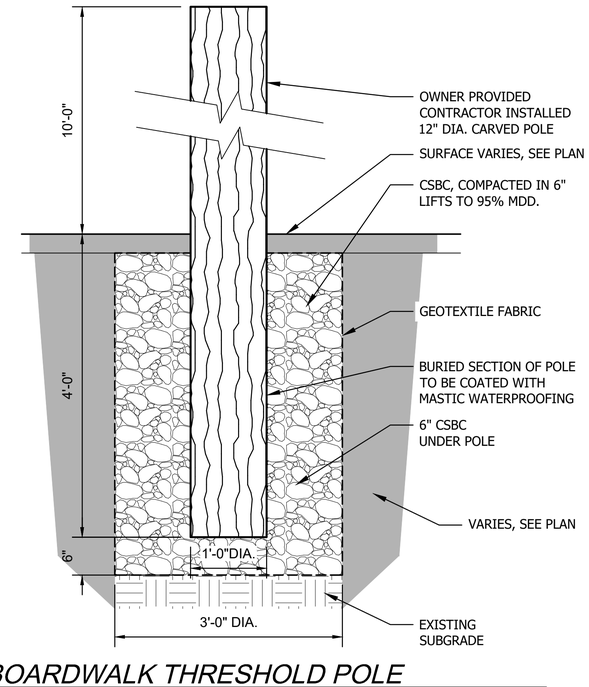
3 C3.4 RAMP LANDING SECTION TYP

SCALE: 1/2" = 1'-0"



4 C3.4 CEMENT CONCRETE RAMP

SCALE: 1/2" = 1'-0"



5 C3.4 BOARDWALK THRESHOLD POLE

SCALE: 1" = 1'-0"

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REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

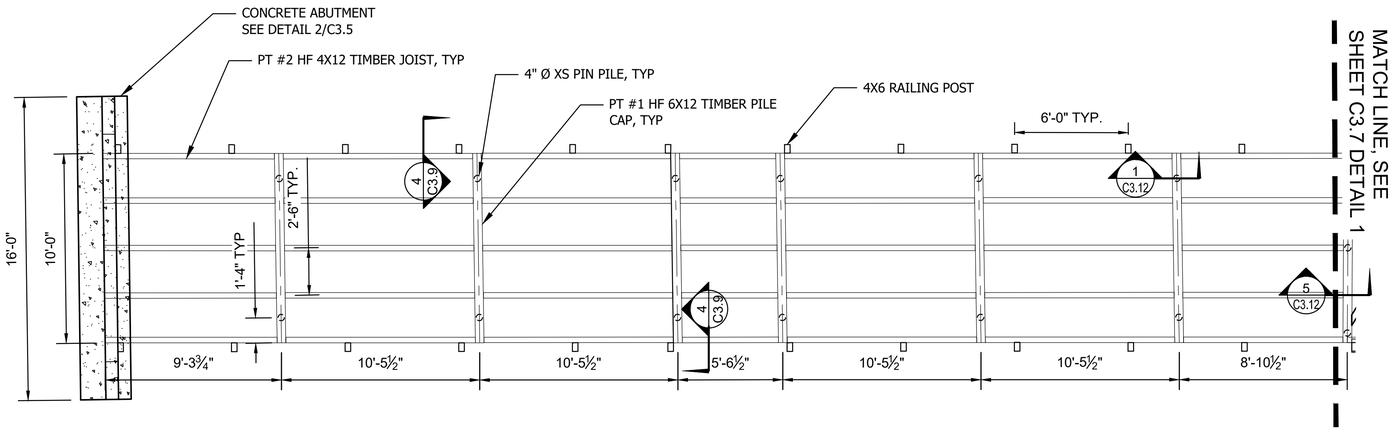
SITE DETAILS - APPROACH

C3.4

SCALE

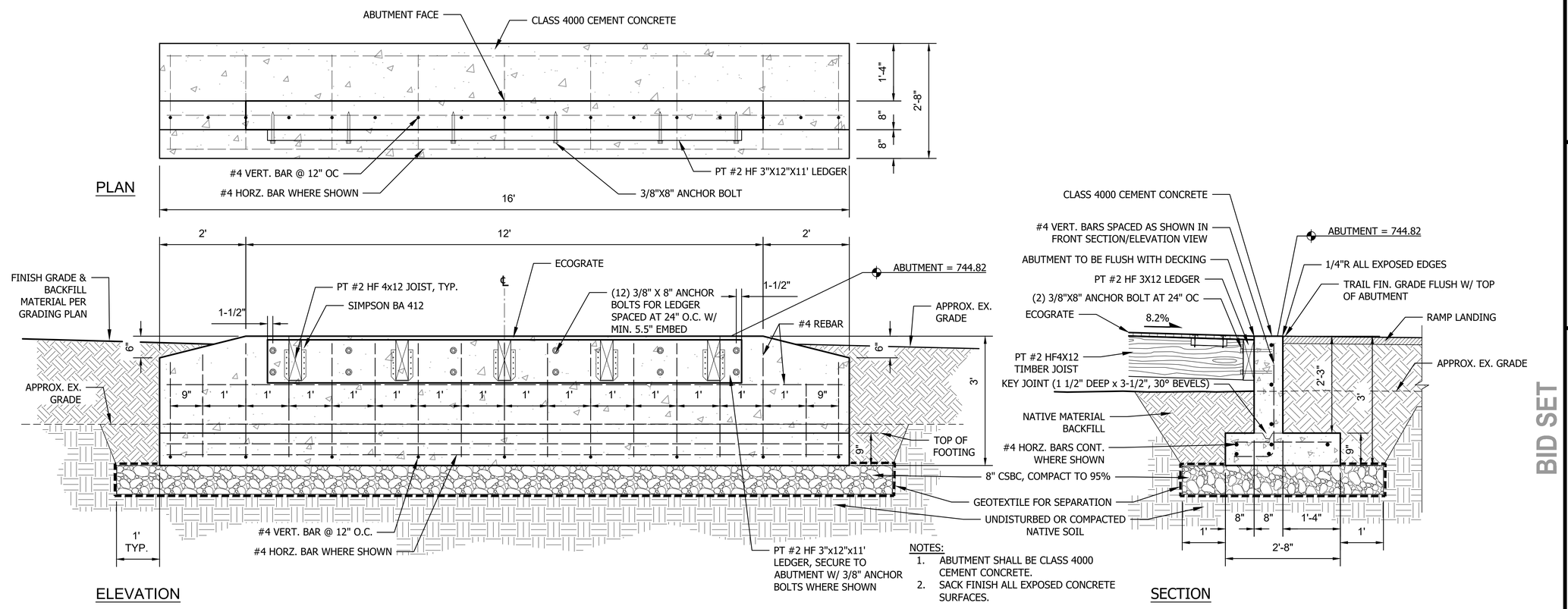
AS SHOWN

PARKS FILE#



1 C3.5 *OVERLOOK APPROACH FRAMING*

SCALE: 1/4" = 1'-0"



2 C3.5 *CONCRETE ABUTMENT*

SCALE: 3/4" = 1'-0"

PRIVATE IMPROVEMENTS

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PHASE 3B
WELCOME CENTER AND LOOP TRAIL

SITE DETAILS - OVERLOOK ABUTMENT

C3.5

SCALE
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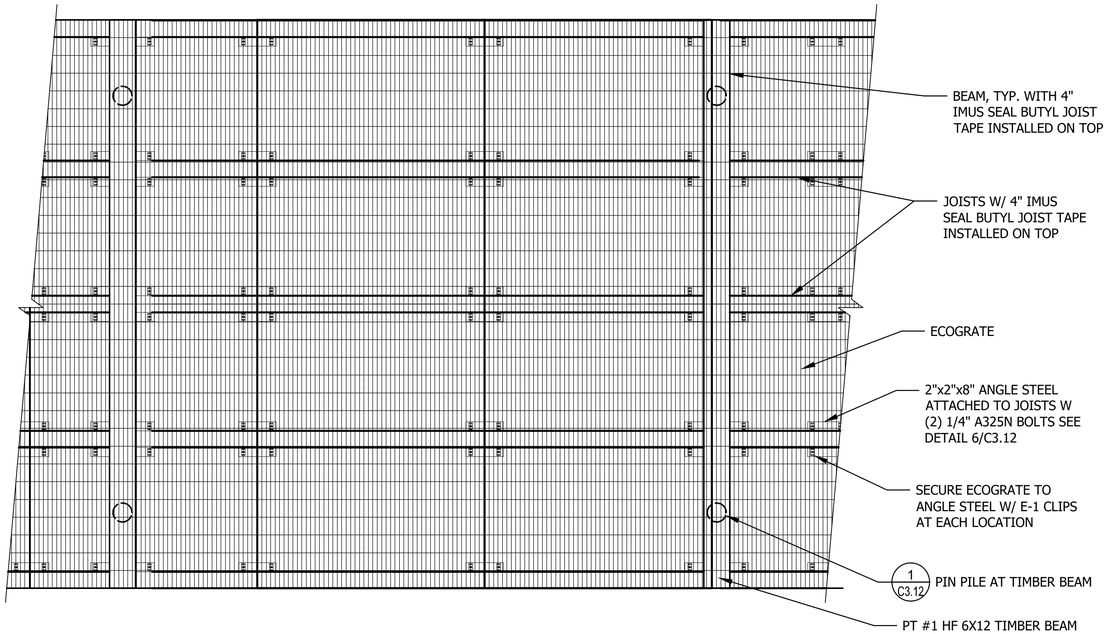
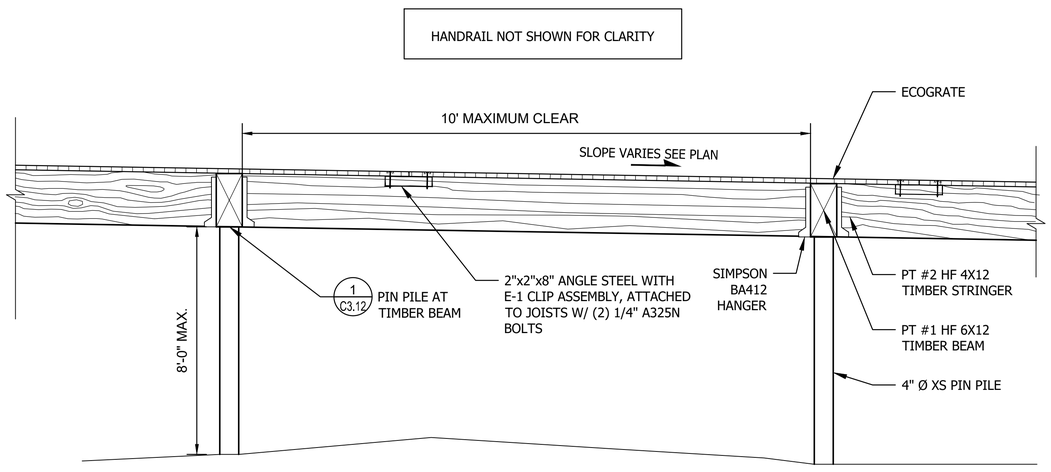
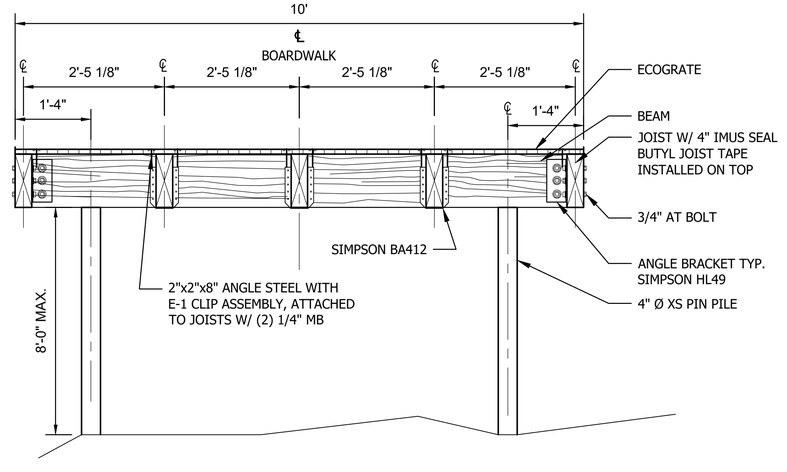


PLAN



ELEVATION



SECTION

1 C3.6 *OVERLOOK APPROACH DETAIL*

SCALE: 3/4" = 1'-0"

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PHASE 3B WELCOME CENTER AND LOOP TRAIL

SITE DETAILS - OVERLOOK APPROACH

C3.6

SCALE

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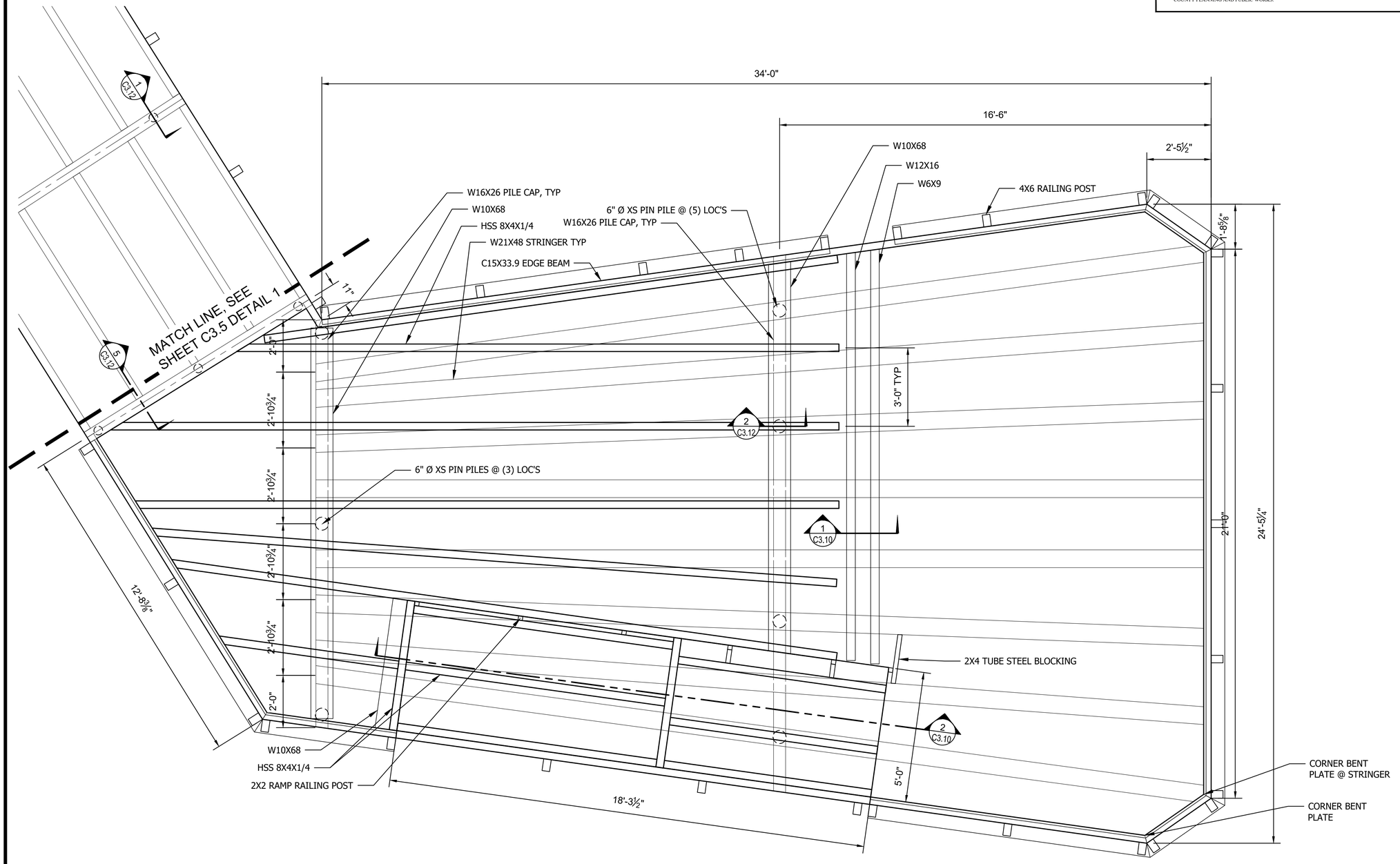

1 C3.7 *OVERLOOK FRAMING*
SCALE: 1/2" = 1'-0"

SHEET 36 OF 119

BID SET

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PHASE 3B
WELCOME CENTER AND LOOP TRAIL

SITE DETAILS - FRAMING

C3.7

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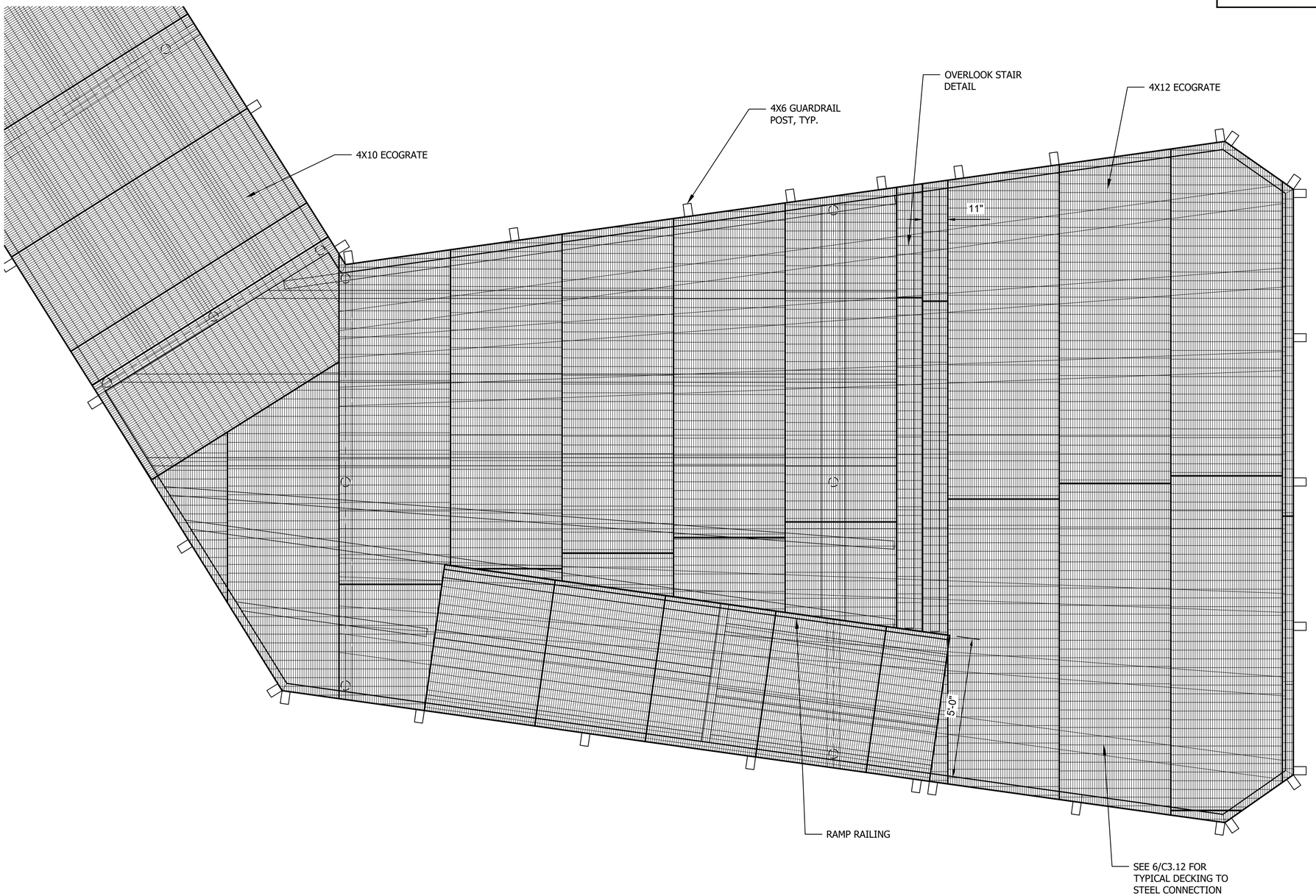

1 C3.8 *OVERLOOK DECKING*
SCALE: 1/2" = 1'-0"

BID SET

SHEET 37 OF 119

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SITE DETAILS - DECKING

C3.8

SCALE
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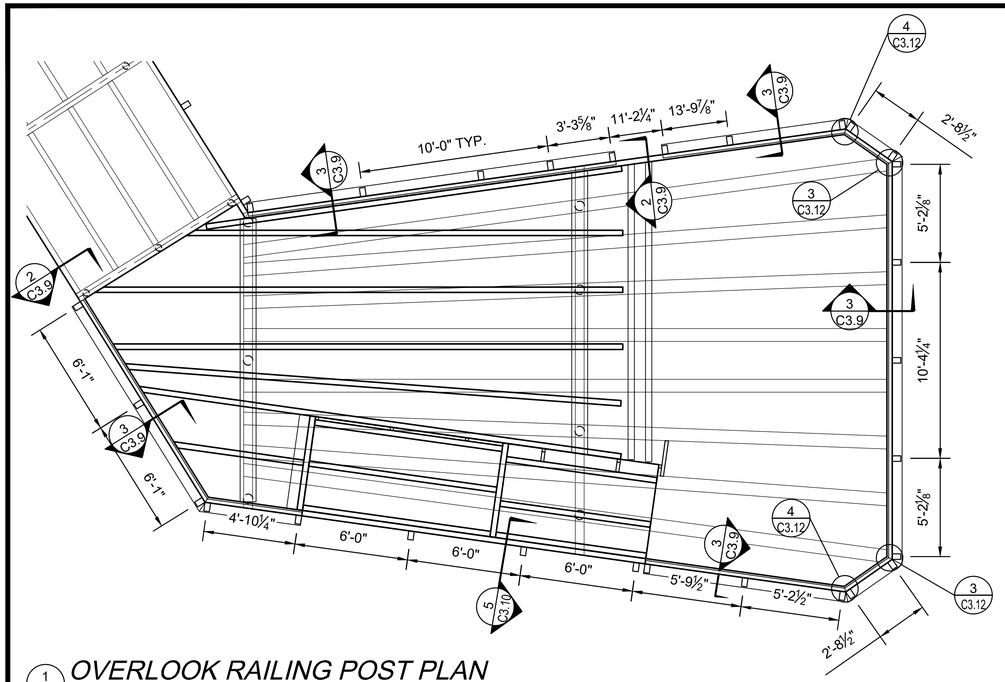
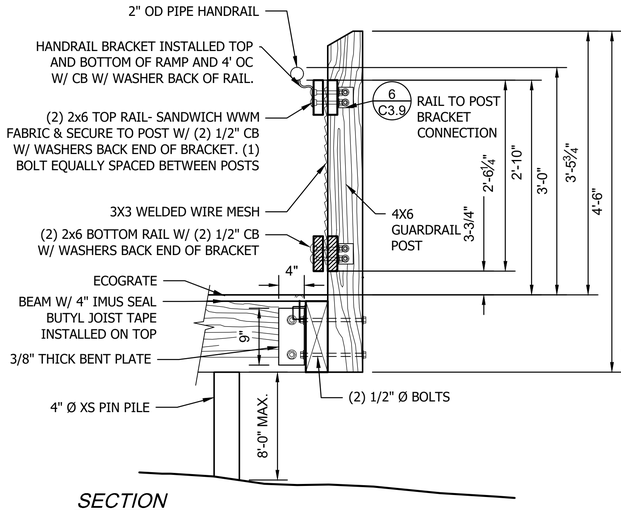
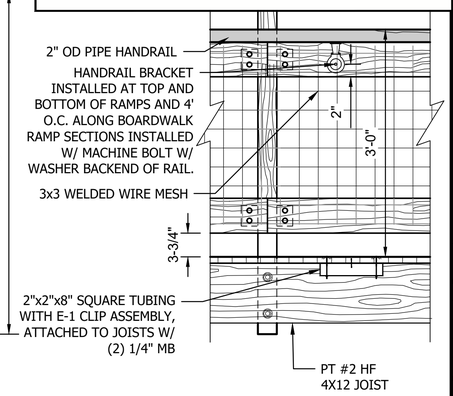


1 C3.9 OVERLOOK RAILING POST PLAN

SCALE: 1/4" = 1'-0"



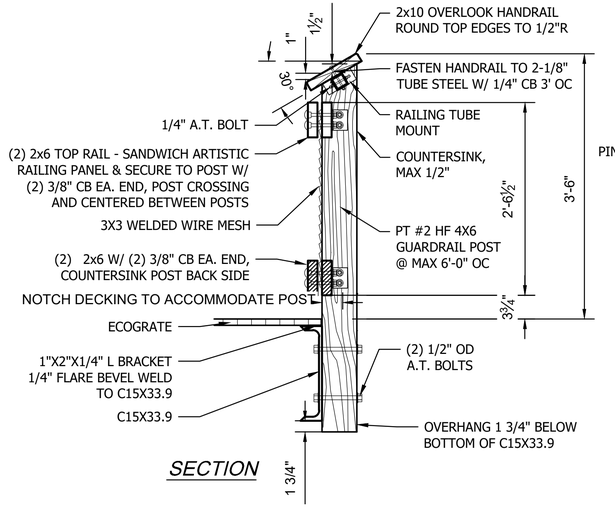
SECTION



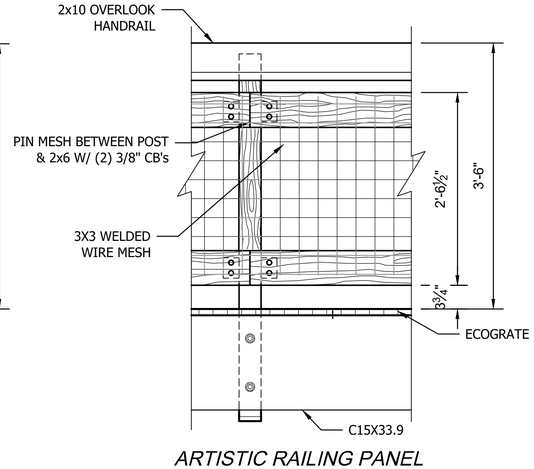
WELDED WIRE MESH

2 C3.9 OVERLOOK APPROACH RAILING WELDED WIRE MESH

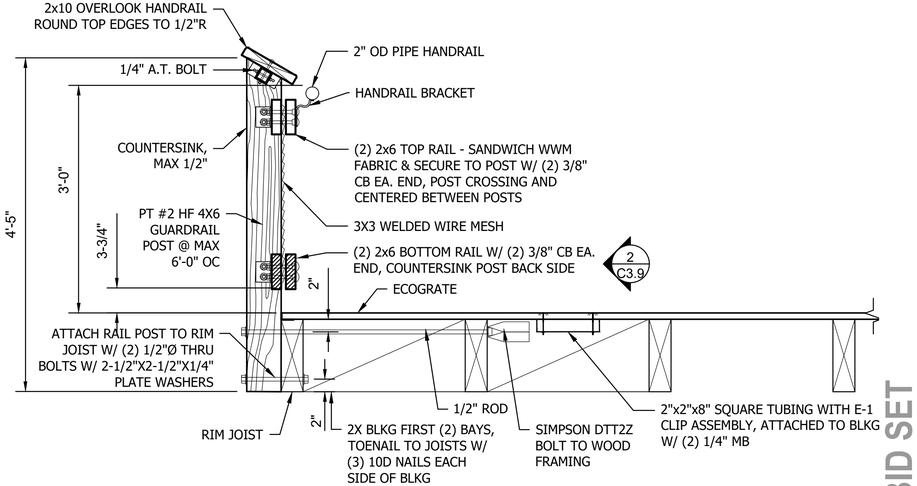
SCALE: 1" = 1'-0"



SECTION

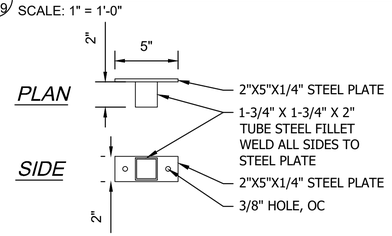


ARTISTIC RAILING PANEL

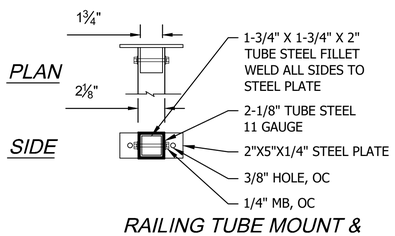


3 C3.9 OVERLOOK RAILING DETAIL

SCALE: 1" = 1'-0"



RAILING TUBE MOUNT



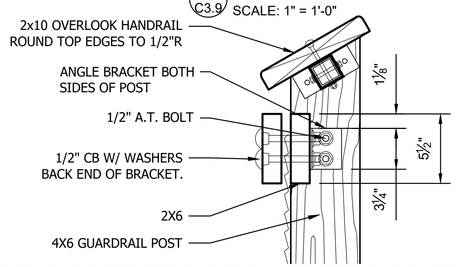
RAILING TUBE MOUNT & TUBE STEEL CONNECTION

5 C3.9 RAILING TUBE MOUNT

SCALE: 1" = 1'-0"

4 C3.9 TYPICAL GUARDRAIL TO RIM JOIST CONNECTION AT BLKG

SCALE: 1" = 1'-0"



6 C3.9 RAILING TO POST BRACKET CONNECTION

SCALE: 2" = 1'-0"

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NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

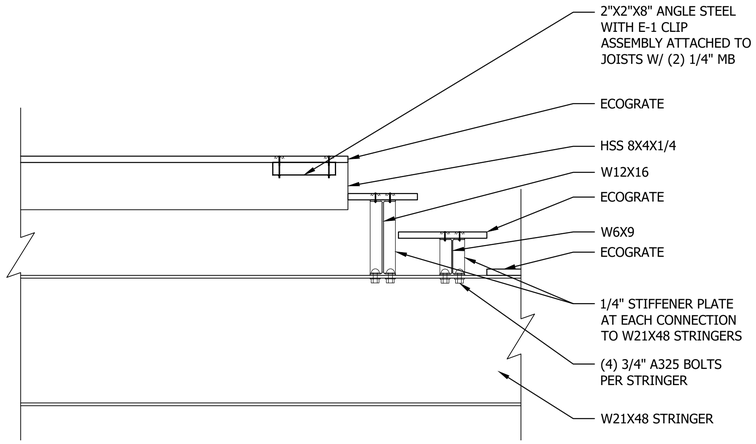
SITE DETAILS - RAILING

C3.9

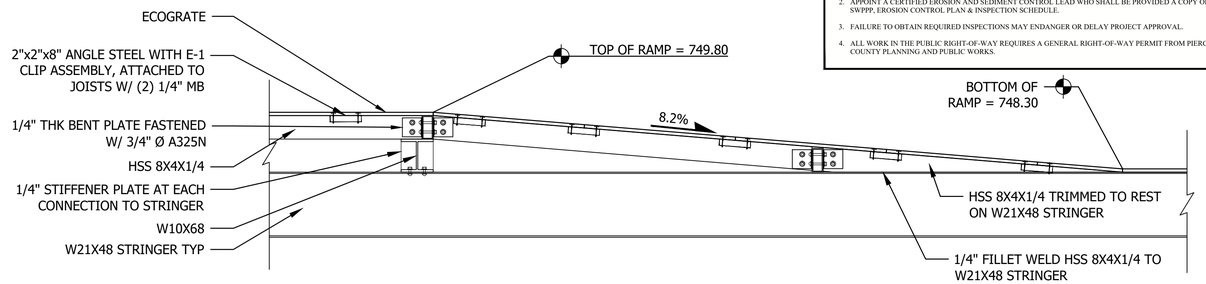
SCALE

AS SHOWN

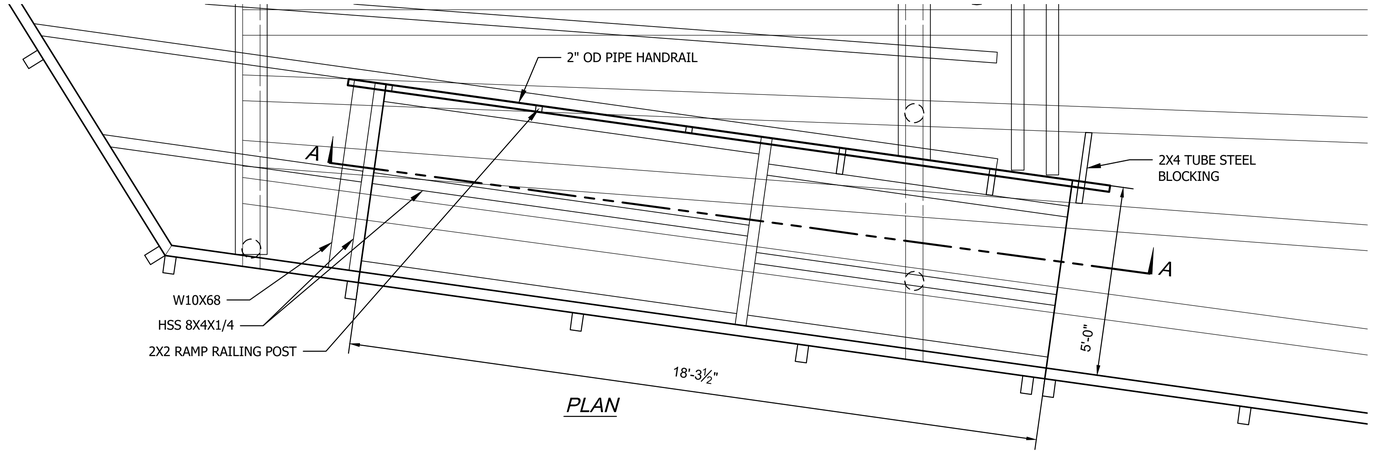
PARKS FILE#

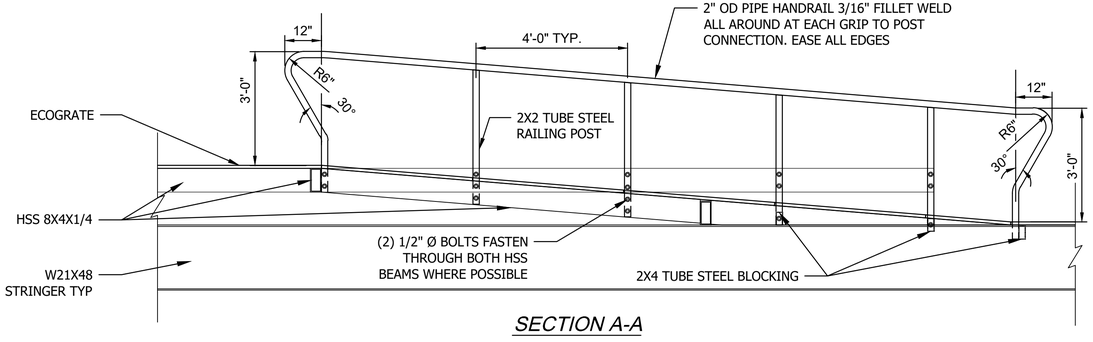


1 C3.10 **OVERLOOK STAIR DETAIL**
SCALE: 1" = 1'-0"

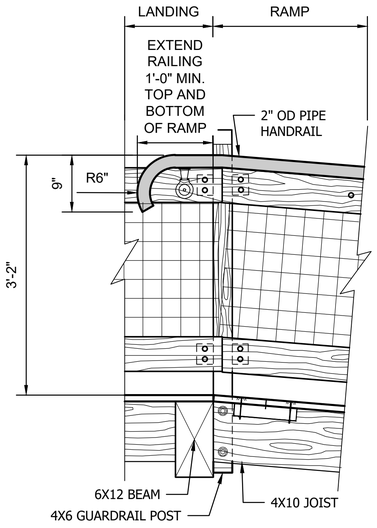


2 C3.10 **OVERLOOK RAMP DETAIL**
SCALE: 1/2" = 1'-0"

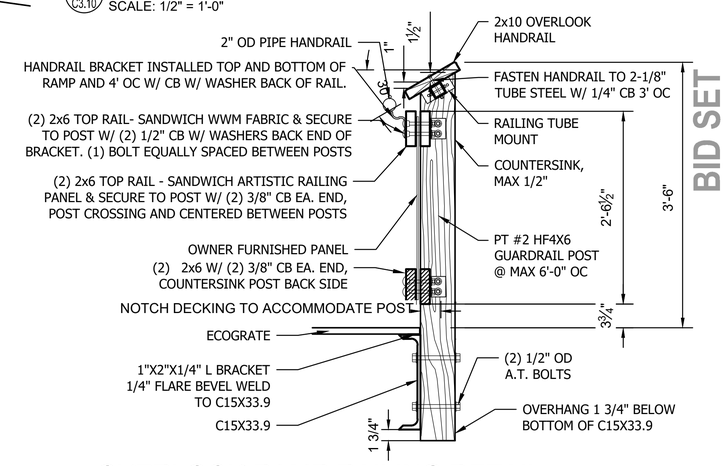




3 C3.10 **OVERLOOK RAMP HANDRAIL**
SCALE: 1/2" = 1'-0"



4 C3.10 **RAILING AT RAMP AND LANDING**
SCALE: 1/2" = 1'-0"



5 C3.10 **OVERLOOK RAMP RAILING DETAIL**
SCALE: 1" = 1'-0"

BID SET

PRIVATE IMPROVEMENTS

1021435 PERMIT #

COUNTY ENGINEER _____ DATE _____

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DRAWN	JH	6/20/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/18/2026 · LICENSED LANDSCAPE ARCHITECT ·

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

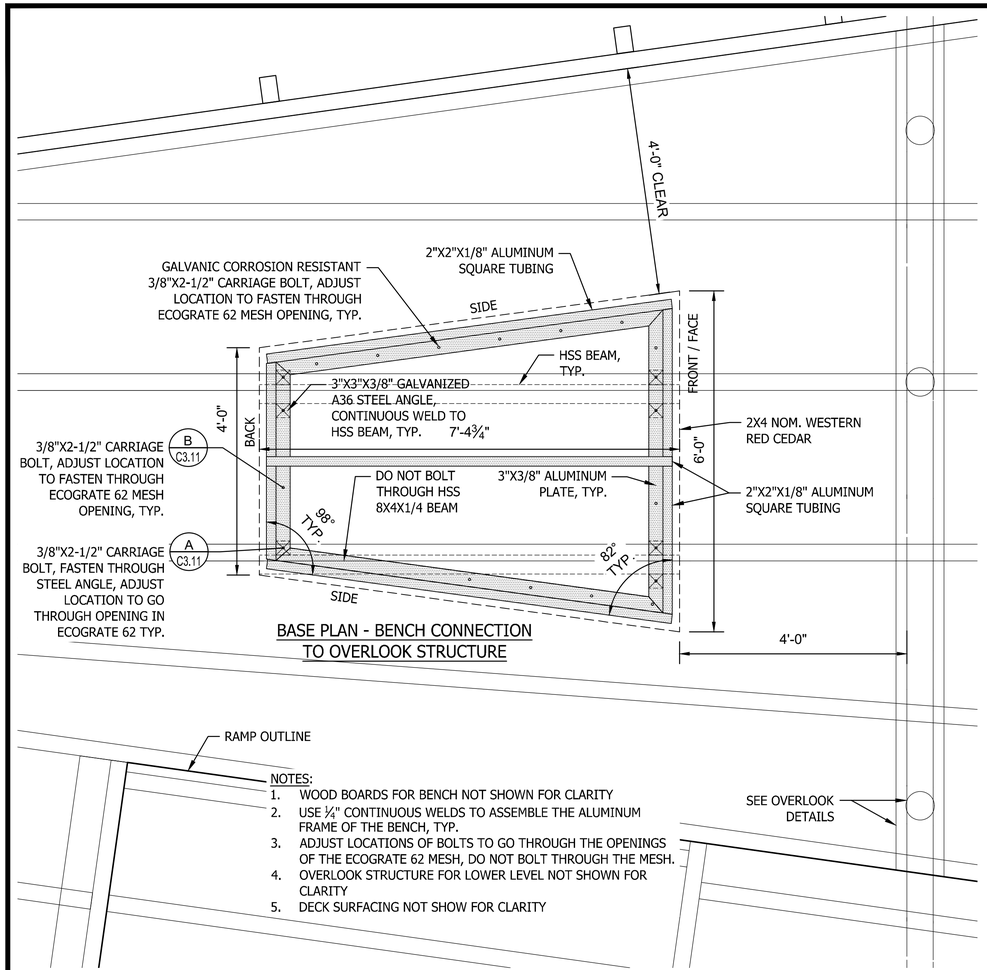
PHASE 3B WELCOME CENTER AND LOOP TRAIL

SITE DETAILS - OVERLOOK

C3.10

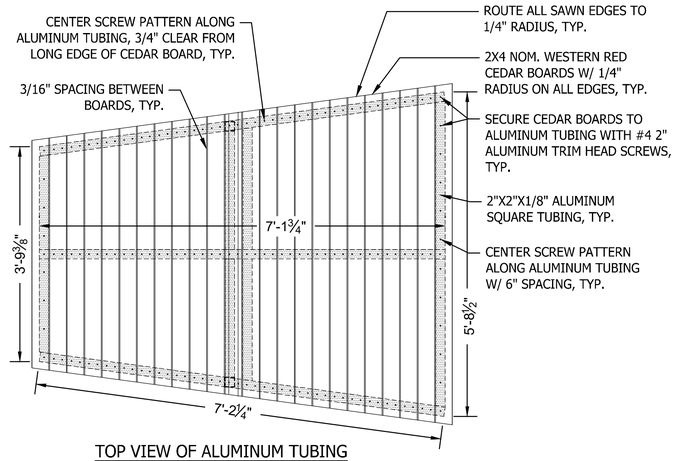
SCALE
AS SHOWN

PARKS FILE#

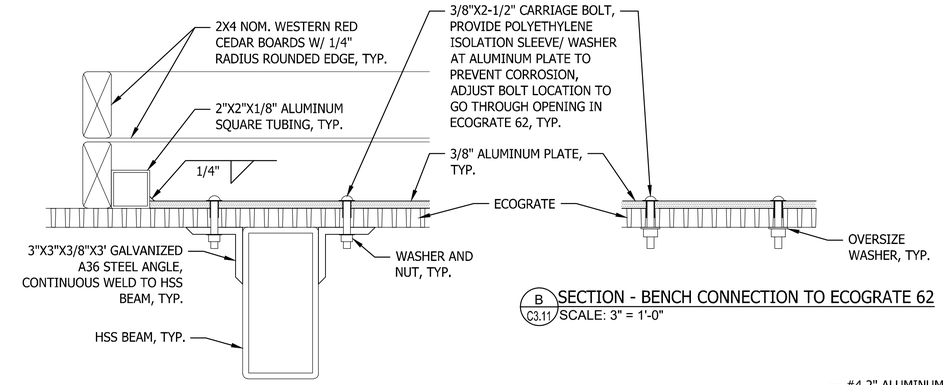


BASE PLAN - BENCH CONNECTION TO OVERLOOK STRUCTURE

NOTES:
1. WOOD BOARDS FOR BENCH NOT SHOWN FOR CLARITY
2. USE ¼" CONTINUOUS WELDS TO ASSEMBLE THE ALUMINUM FRAME OF THE BENCH, TYP.
3. ADJUST LOCATIONS OF BOLTS TO GO THROUGH THE OPENINGS OF THE ECOGRATE 62 MESH, DO NOT BOLT THROUGH THE MESH.
4. OVERLOOK STRUCTURE FOR LOWER LEVEL NOT SHOWN FOR CLARITY
5. DECK SURFACING NOT SHOW FOR CLARITY

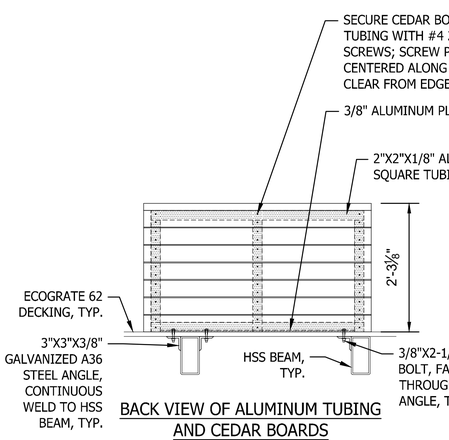


TOP VIEW OF ALUMINUM TUBING AND CEDAR BOARDS

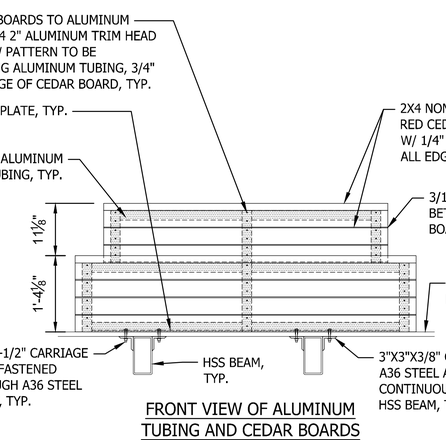


A C3.11 SECTION - BENCH CONNECTION TO HSS BEAM
SCALE: 3" = 1'-0"

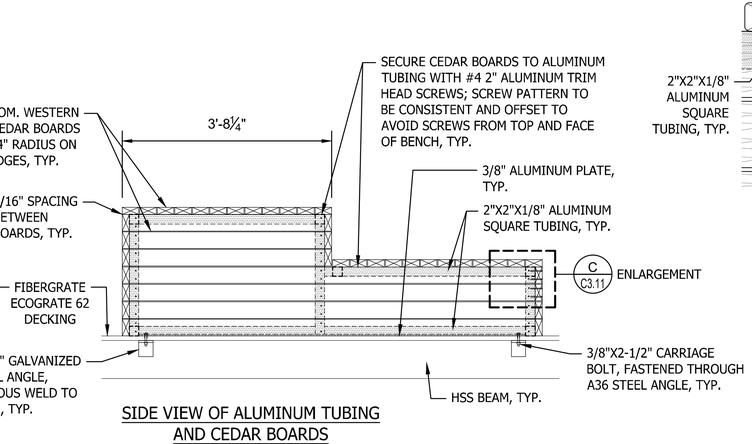
B C3.11 SECTION - BENCH CONNECTION TO ECOGRATE 62
SCALE: 3" = 1'-0"



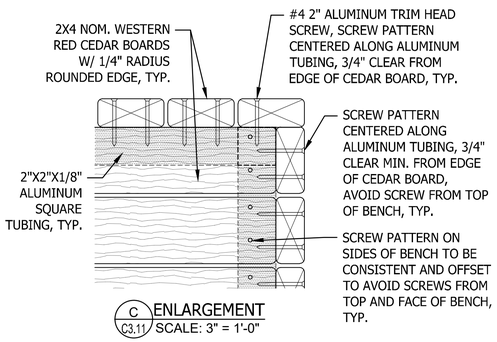
BACK VIEW OF ALUMINUM TUBING AND CEDAR BOARDS



FRONT VIEW OF ALUMINUM TUBING AND CEDAR BOARDS



SIDE VIEW OF ALUMINUM TUBING AND CEDAR BOARDS



C C3.11 ENLARGEMENT
SCALE: 3" = 1'-0"

1 C3.11 *OVERLOOK SEAT DETAIL*
SCALE: 3/4" = 1'-0"

BID SET

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NISQUALLY STATE PARK

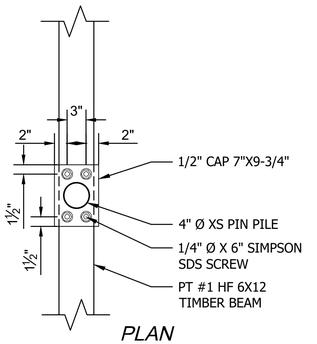
PHASE 3B WELCOME CENTER AND LOOP TRAIL

SITE DETAILS - OVERLOOK

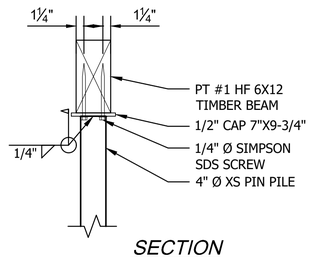
C3.11

SCALE
AS SHOWN

PARKS FILE#



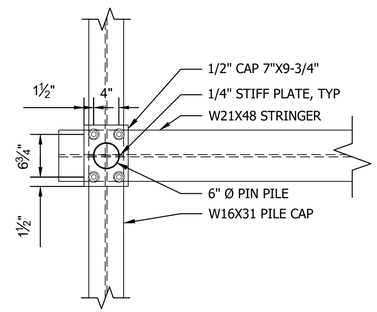
PLAN



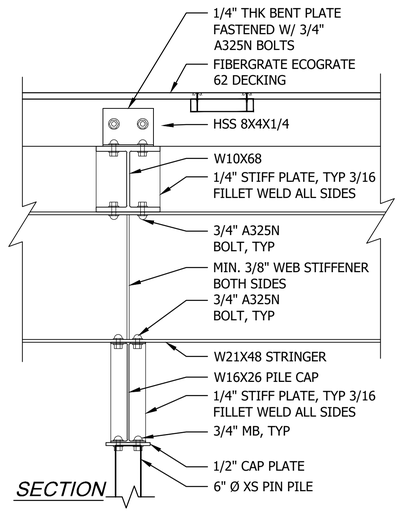
SECTION

1 C3.12 PIN PILE AT TIMBER BEAM

SCALE: 1" = 1'-0"



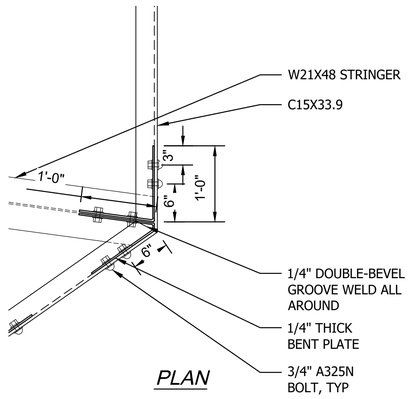
PLAN



SECTION

2 C3.12 PIN PILE AT CAP AND STRINGER

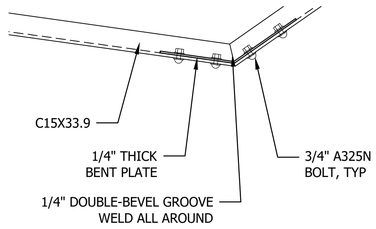
SCALE: 1" = 1'-0"



PLAN

3 C3.12 CORNER BENT PLATE @ STRINGER

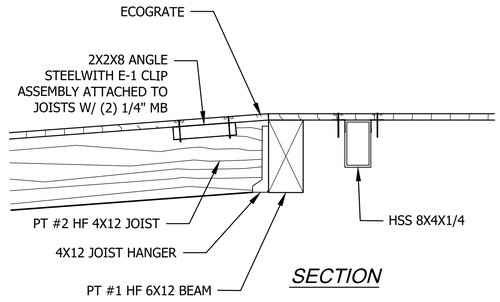
SCALE: 1" = 1'-0"



PLAN

4 C3.12 CORNER BENT PLATE

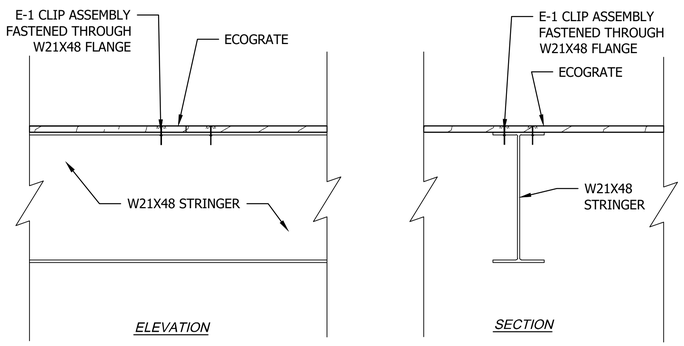
SCALE: 1" = 1'-0"



SECTION

5 C3.12 APPROACH TO OVERLOOK SECTION

SCALE: 1" = 1'-0"



6 C3.12 ECOGRATE 62 @ W21X48 STRINGER

SCALE: 1" = 1'-0"

PRIVATE IMPROVEMENTS

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NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

SITE DETAILS - OVERLOOK

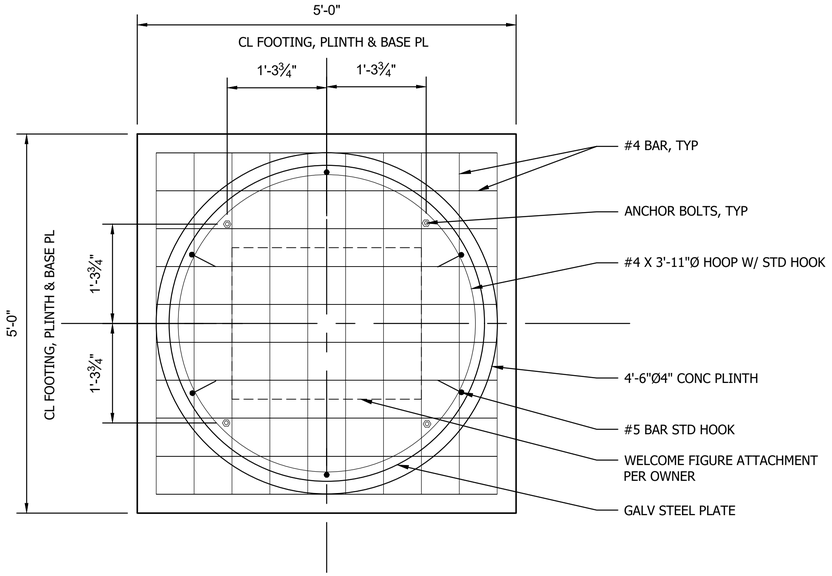
C3.12

SCALE

AS SHOWN

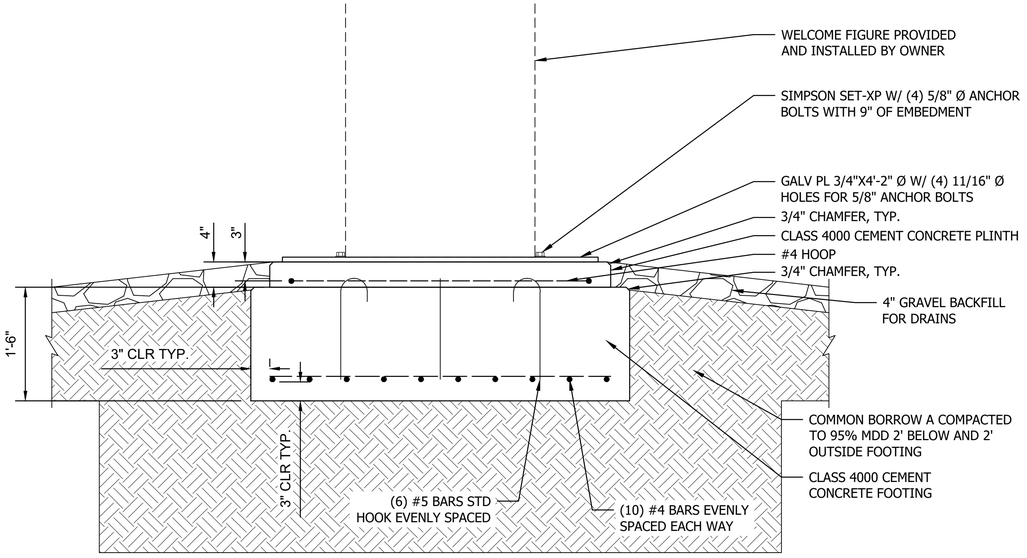
PARKS FILE#

BID SET



1 C3.13 WELCOME FIGURE FOOTING PLAN

SCALE: 1" = 1'-0"



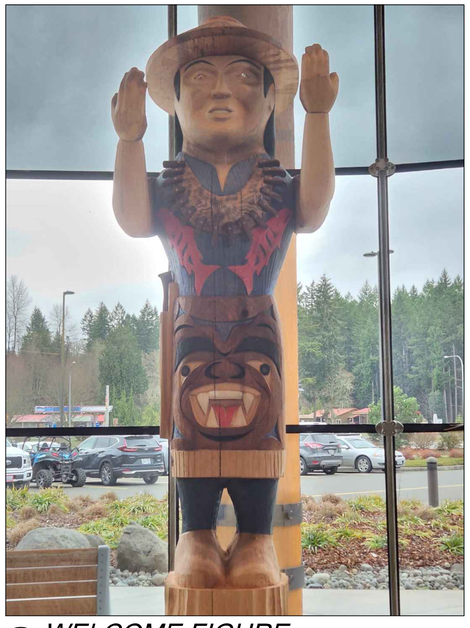
2 C3.13 SECTION

SCALE: 1" = 1'-0"

NOTES:

1. WELCOME FIGURE NOT SHOWN FOR CLARITY.
2. REINFORCEMENT NOT SHOWN FOR CLARITY.
3. WELCOME FIGURE MAX HEIGHT = 12 FEET

   WELCOME FIGURE MAX WEIGHT = 1450 POUNDS
4. OWNER WILL INSTALL WELCOME FIGURE SCULPTURE.



NOTE: IMAGE SHOWN FOR REFERENCE ONLY, OWNER WILL INSTALL WELCOME FIGURE SCULPTURE

3 C3.13 WELCOME FIGURE

SCALE: NOT TO SCALE

BID SET

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NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

SITE DETAILS - WELCOME FIGURE FOOTING

C3.13

SCALE

AS SHOWN

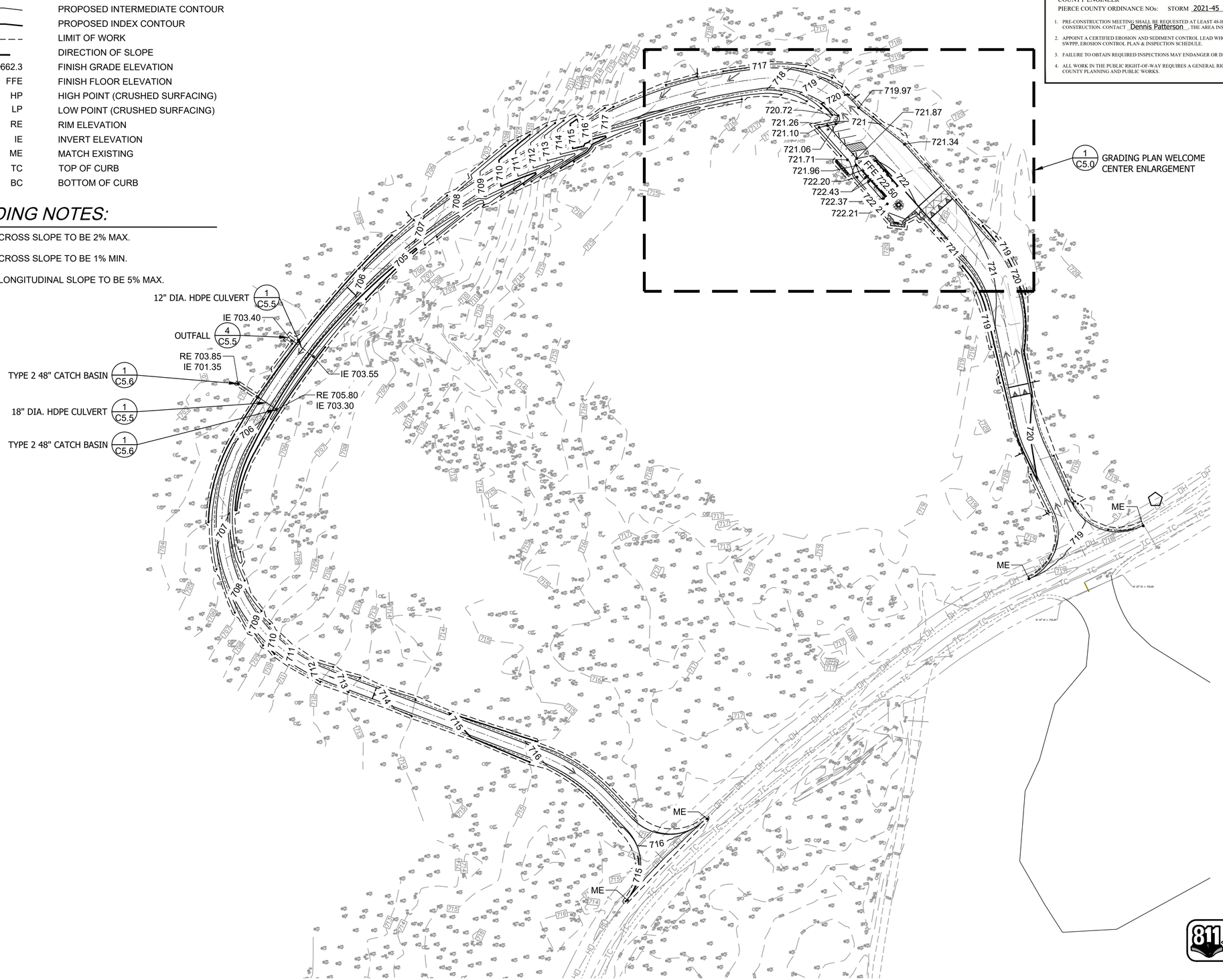
PARKS FILE#

GRADING LEGEND:

XXX	PROPOSED INTERMEDIATE CONTOUR
XXX	PROPOSED INDEX CONTOUR
	LIMIT OF WORK
	DIRECTION OF SLOPE
662.3	FINISH GRADE ELEVATION
FFE	FINISH FLOOR ELEVATION
HP	HIGH POINT (CRUSHED SURFACING)
LP	LOW POINT (CRUSHED SURFACING)
RE	RIM ELEVATION
IE	INVERT ELEVATION
ME	MATCH EXISTING
TC	TOP OF CURB
BC	BOTTOM OF CURB

GRADING NOTES:

1. ROAD CROSS SLOPE TO BE 2% MAX.
2. ROAD CROSS SLOPE TO BE 1% MIN.
3. ROAD LONGITUDINAL SLOPE TO BE 5% MAX.



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BID SET

811 Call 811 two business days before you dig

SHEET 43 OF 119

CAD NO.

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PHASE 3B WELCOME CENTER AND LOOP TRAIL

GRADING PLAN - WELCOME CENTER LOOP

C4.0

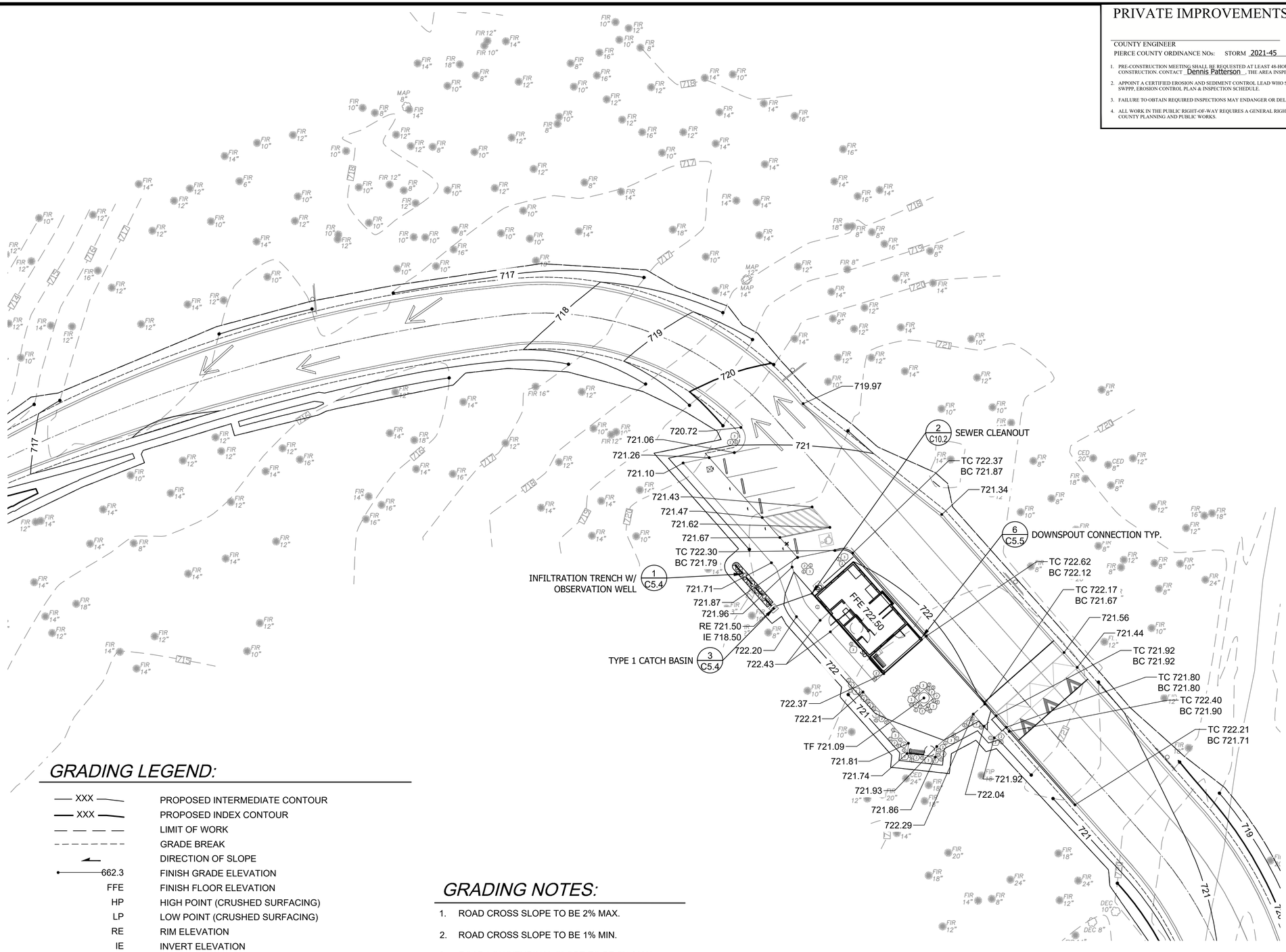
SCALE

SCALE: 1"=60'

0 30' 60' 90' 120'

PARKS FILE#

G:\2018\180624 New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\C4.0 Grading Plan - WC.dwg
May-05-25 10:46am



GRADING LEGEND:

XXX	PROPOSED INTERMEDIATE CONTOUR
XXX	PROPOSED INDEX CONTOUR
— — — —	LIMIT OF WORK
- - - - - - - -	GRADE BREAK
	DIRECTION OF SLOPE
662.3	FINISH GRADE ELEVATION
FFE	FINISH FLOOR ELEVATION
HP	HIGH POINT (CRUSHED SURFACING)
LP	LOW POINT (CRUSHED SURFACING)
RE	RIM ELEVATION
IE	INVERT ELEVATION
TC	TOP OF CURB
BC	BOTTOM OF CURB
TF	TOP OF FOUNDATION

GRADING NOTES:

1. ROAD CROSS SLOPE TO BE 2% MAX.
2. ROAD CROSS SLOPE TO BE 1% MIN.
3. ROAD LONGITUDINAL SLOPE TO BE 5% MAX.

BID SET

811 Call 811 two business days before you dig

SHEET 44 OF 119

PRIVATE IMPROVEMENTS

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PHASE 3B WELCOME CENTER AND LOOP TRAIL

GRADING PLAN ENLARGEMENT - WELCOME CENTER

C5.0

SCALE

SCALE: 1"=10'

0 5' 10' 15' 20'

PARKS FILE#

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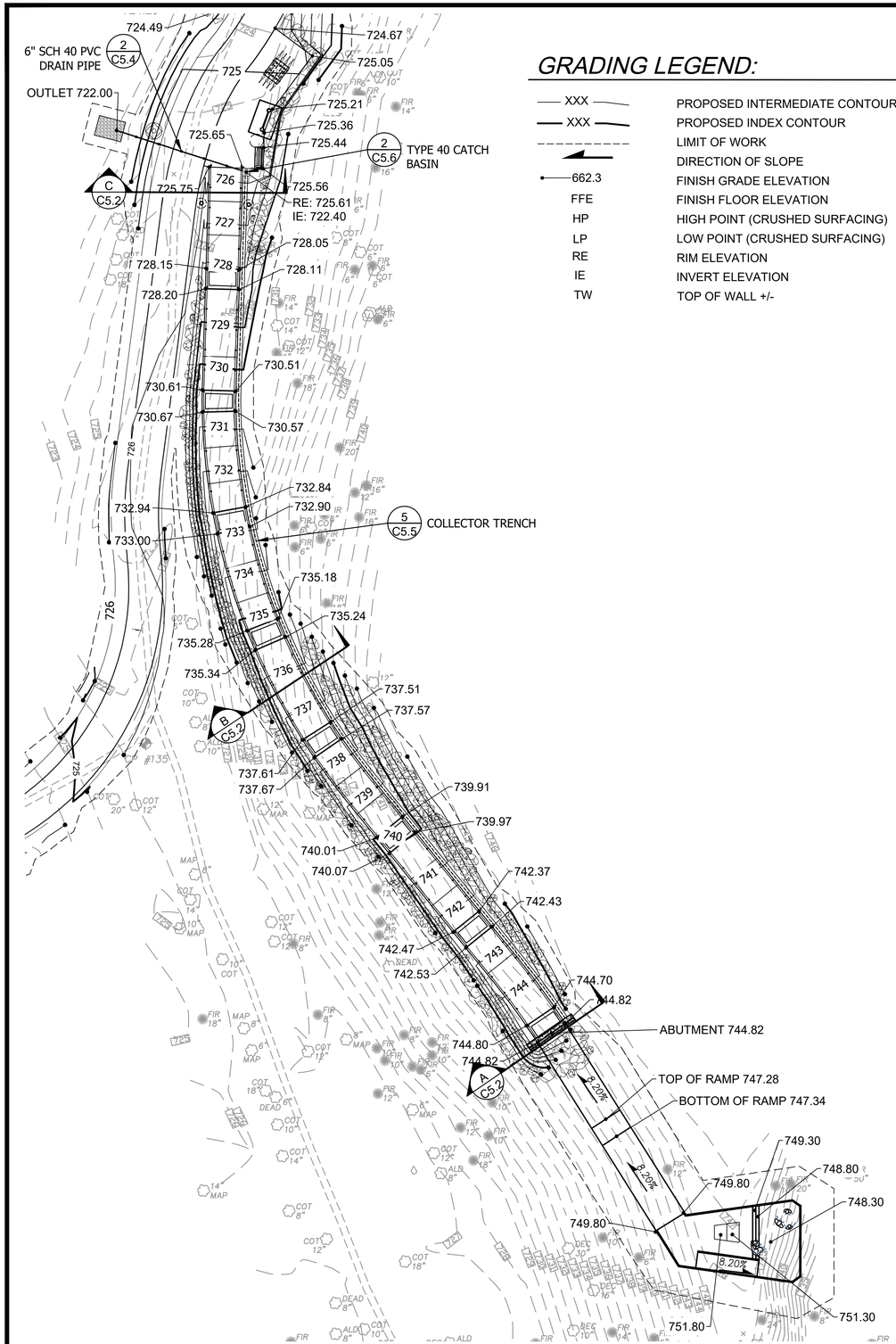
May-05-25 10:47am



1 C5.1 MASHEL RIVER LOOP TRAIL OVERLOOK SECTION ENLARGEMENT

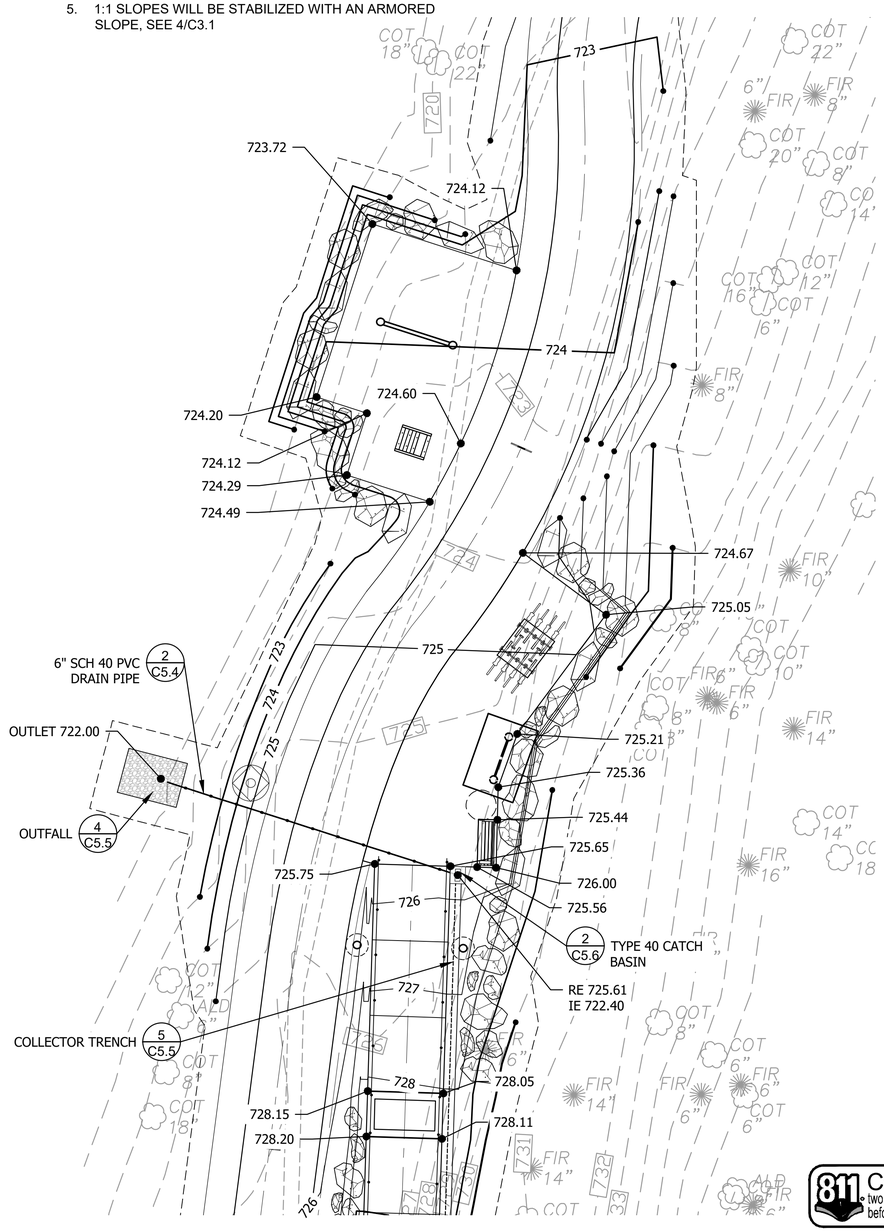
SCALE: 1" = 20'-0"

GRADING LEGEND:

XXX	PROPOSED INTERMEDIATE CONTOUR
XXX	PROPOSED INDEX CONTOUR
	LIMIT OF WORK
	DIRECTION OF SLOPE
662.3	FINISH GRADE ELEVATION
FFE	FINISH FLOOR ELEVATION
HP	HIGH POINT (CRUSHED SURFACING)
LP	LOW POINT (CRUSHED SURFACING)
RE	RIM ELEVATION
IE	INVERT ELEVATION
TW	TOP OF WALL +/-

GRADING NOTES:

1. 2% MAXIMUM CROSS SLOPE FOR TRAIL AND OVERLOOK APPROACH
2. 5% MAXIMUM LONGITUDINAL SLOPE FOR TRAIL
3. 8.2% MAXIMUM LONGITUDINAL SLOPE FOR OVERLOOK APPROACH
4. SLOPES GREATER THAN 3:1 WILL BE STABILIZED WITH SALVAGED BOULDERS.
5. 1:1 SLOPES WILL BE STABILIZED WITH AN ARMORED SLOPE, SEE 4/C3.1



2 C5.1 MASHEL RIVER OVERLOOK REST AREA ENLARGEMENT

SCALE: 1" = 10'-0"

PRIVATE IMPROVEMENTS

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PHASE 3B WELCOME CENTER AND LOOP TRAIL

GRADING PLAN ENLARGEMENT - MASHEL RIVER OVERLOOK TRAIL C5.1

SCALE

AS SHOWN

PARKS FILE#

811 Call 811 two business days before you dig

SHEET 45 OF 119

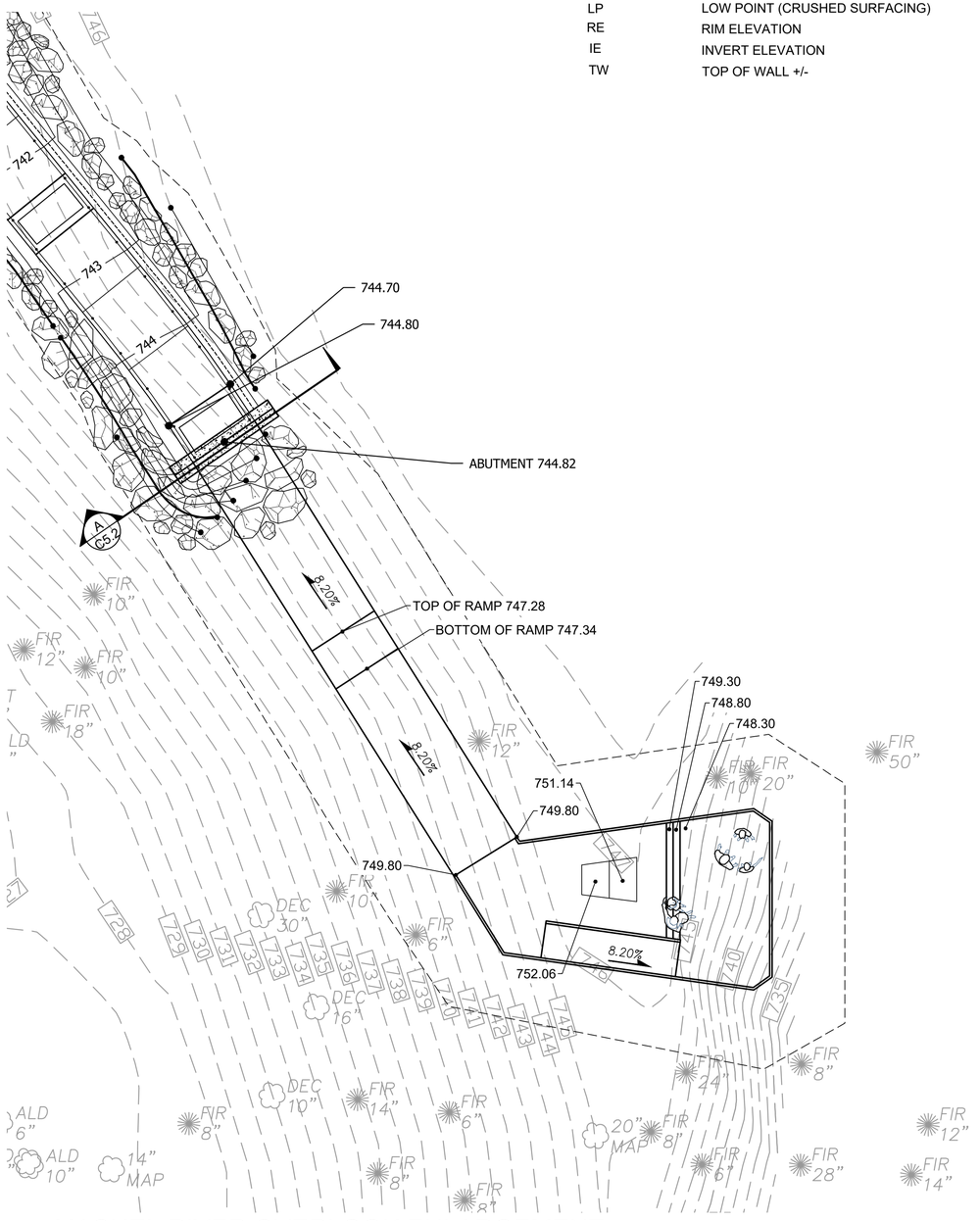
O:\2018\180624 New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\C4.1 Grading & Enlargement Plan - MRO.dwg
May-05-25 10:49am

GRADING NOTES:

1. 2% MAXIMUM CROSS SLOPE FOR TRAIL
2. 5% MAXIMUM LONGITUDINAL SLOPE FOR TRAIL
3. SLOPES GREATER THAN 3:1 WILL BE STABILIZED WITH SALVAGED 1-3 MAN BOULDERS.
4. 1:1 SLOPES WILL BE STABILIZED WITH AN ARMORED SLOPE, SEE 4/C3.1

GRADING LEGEND:

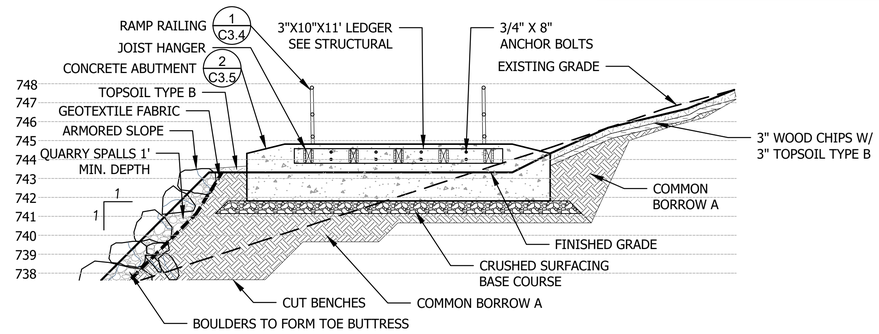
XXX	PROPOSED INTERMEDIATE CONTOUR
XXX	PROPOSED INDEX CONTOUR
	LIMIT OF WORK
	DIRECTION OF SLOPE
662.3	FINISH GRADE ELEVATION
FFE	FINISH FLOOR ELEVATION
HP	HIGH POINT (CRUSHED SURFACING)
LP	LOW POINT (CRUSHED SURFACING)
RE	RIM ELEVATION
IE	INVERT ELEVATION
TW	TOP OF WALL +/-



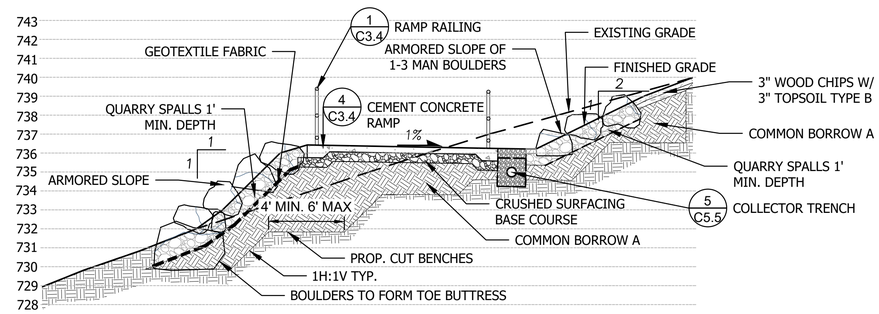
1 C5.2 **MASHEL RIVER OVERLOOK ENLARGEMENT**
SCALE: 1" = 10'-0"

SECTION NOTES:

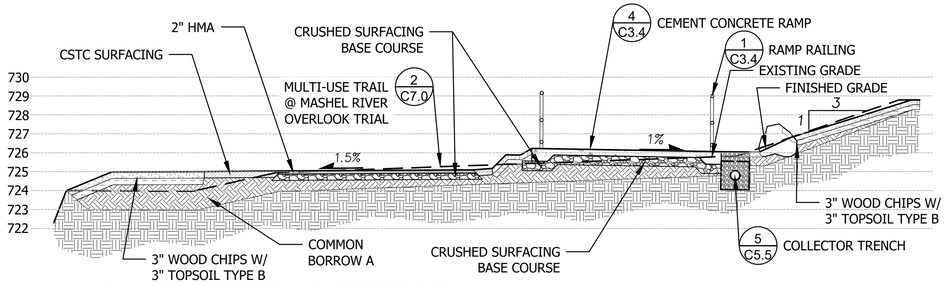
1. GEOTEXTILE TO BE FOR UNDERGROUND DRAINAGE, MODERATE SURVIVABILITY, CLASS B AS PER WSDOT 9-33.2(1)
2. QUARRY SPALLS AS PER WSDOT 9-13.1(5)
3. ARMORED SLOPE TO BE CONSTRUCTED WITH CLASS C ROCK AS PER WSDOT 9-13.4



A C5.2 **ABUTMENT SECTION**
SCALE: 1/4"= 1'-0"



B C5.2 **RAMP AND DOUBLE ARMORED SLOPE SECTION**
SCALE: 1/4"= 1'-0"



C C5.2 **RAMP AND TRAIL SECTION**
SCALE: 1/4"= 1'-0"

BID SET

811 Call 811 two business days before you dig

SHEET 46 OF 119

PRIVATE IMPROVEMENTS

1021435 PERMIT #

COUNTY ENGINEER _____ DATE _____

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

1. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48-HOURS IN ADVANCE OF THE START OF CONSTRUCTION. CONTACT Dennis Patterson , THE AREA INSPECTOR, AT 253-798- 2539 .
2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.
3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JH	6/20/25
DRAWN	JH	6/20/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/18/2026 · LICENSED LANDSCAPE ARCHITECT ·

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

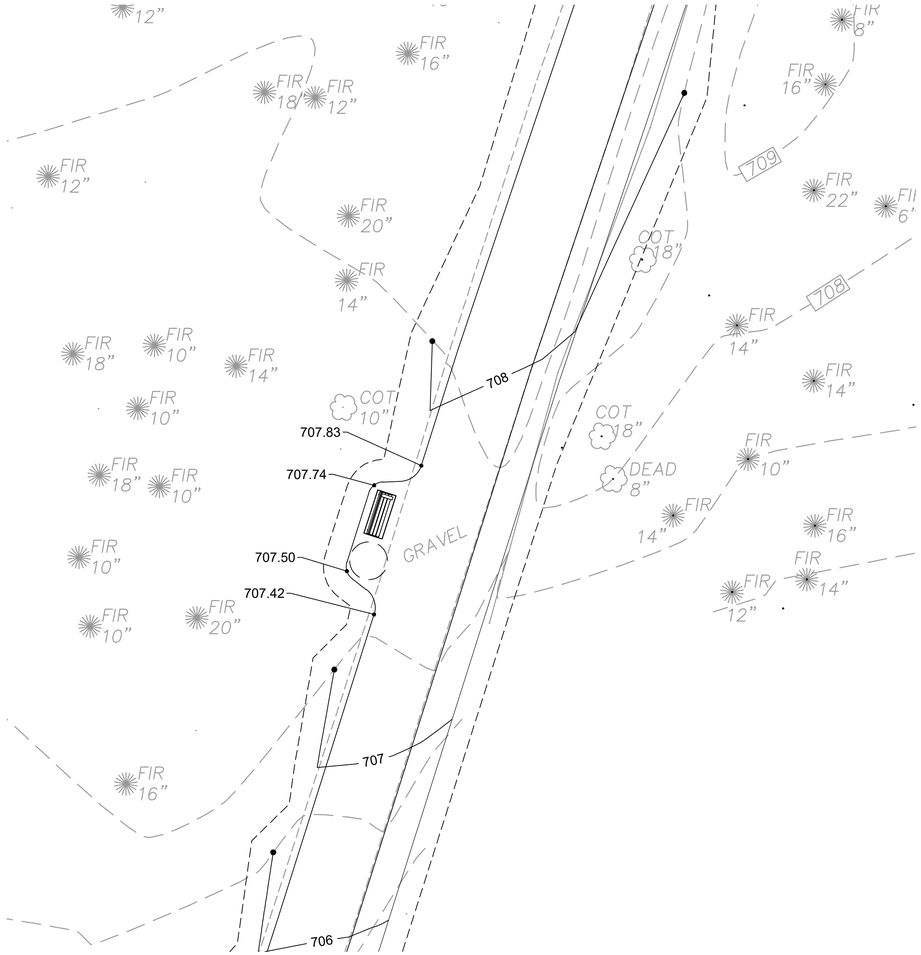
PHASE 3B WELCOME CENTER AND LOOP TRAIL

GRADING PLAN ENLARGEMENT - MASHEL RIVER OVERLOOK C5.2

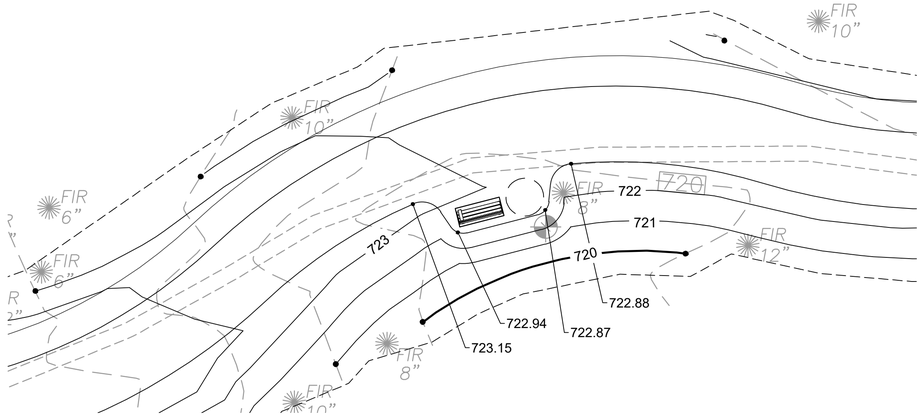
SCALE *AS SHOWN*

PARKS FILE#

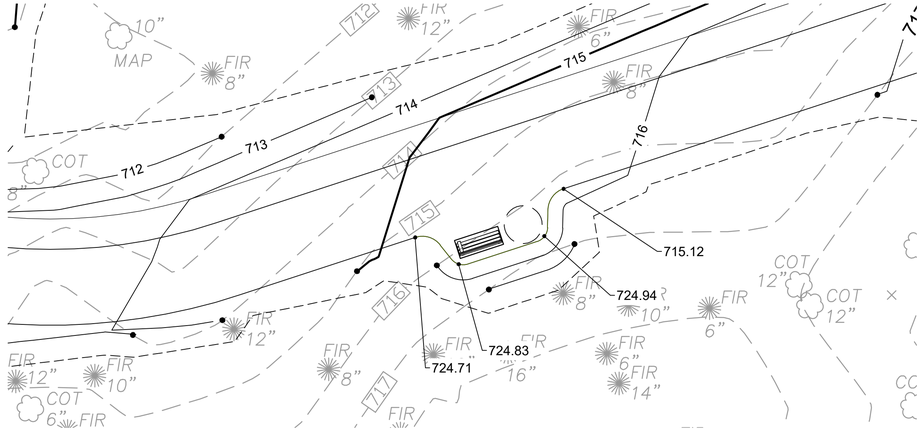
O:\2018\18062A New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\C4.1 Grading & Enlargement Plan - MRO.dwg
May-05-25 10:53am



1 C5.3 **BENCH ENLARGEMENT #1**
SCALE: 1" = 10'-0"



2 C5.3 **BENCH ENLARGEMENT #2**
SCALE: 1" = 10'-0"



3 C5.3 **BENCH ENLARGEMENT #3**
SCALE: 1" = 10'-0"

GRADING LEGEND:

XXX	PROPOSED INTERMEDIATE CONTOUR
XXX	PROPOSED INDEX CONTOUR
	GRADE BREAK
	LIMIT OF WORK
	DIRECTION OF SLOPE
662.3	FINISH GRADE ELEVATION
FFE	FINISH FLOOR ELEVATION
HP	HIGH POINT (CRUSHED SURFACING)
LP	LOW POINT (CRUSHED SURFACING)
RE	RIM ELEVATION
IE	INVERT ELEVATION
TW	TOP OF WALL +/-

GRADING NOTES:

1. 2% MAXIMUM CROSS SLOPE FOR TRAIL
2. 5% MAXIMUM LONGITUDINAL SLOPE FOR TRAIL
3. SLOPES GREATER THAN 3:1 WILL BE STABILIZED WITH SALVAGED BOULDERS.

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

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REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

GRADING PLAN ENLARGEMENT - BENCHES

C5.3

SCALE

SCALE: 1"=100'

0 50' 100' 150' 200'

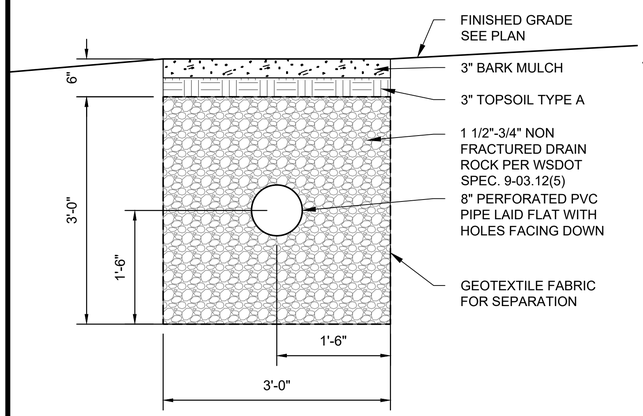
PARKS FILE#

BID SET

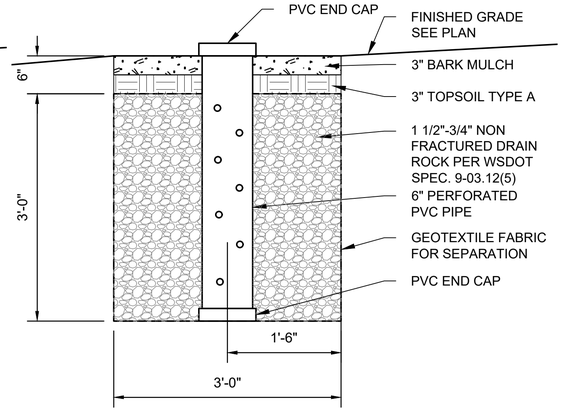
811 Call 811 two business days before you dig

SHEET 47 OF 119

O:\2018\18062A New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\C4.1 Grading & Enlargement Plan - MRO.dwg
May-05-25 10:56am



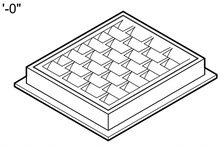
INFILTRATION TRENCH



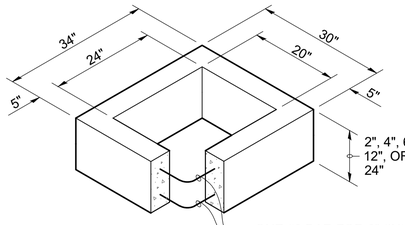
OBSERVATION WELL

1 C5.4 INFILTRATION TRENCH

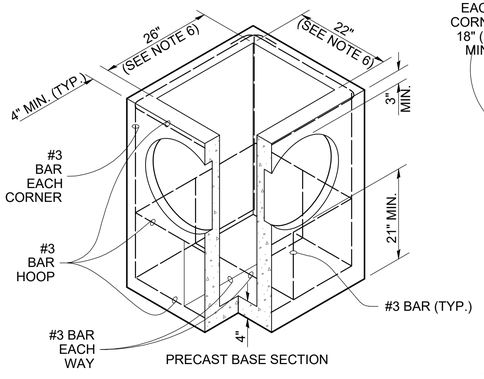
SCALE: 1/2" = 1'-0"



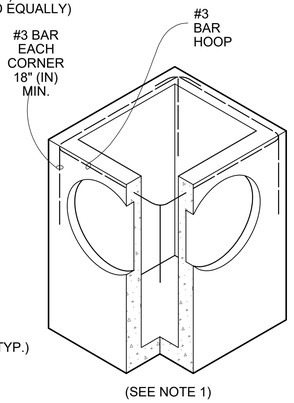
FRAME AND VANED GRATE OR RECTANGULAR SOLID CAST IRON COVER



RECTANGULAR ADJUSTMENT SECTION



PRECAST BASE SECTION



(SEE NOTE 1)

ALTERNATIVE PRECAST BASE SECTION

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP **(STD. SPEC. SECT. 9-05.20)**	12"
SOLID WALL PVC **(STD. SPEC. SECT. 9-05.12(1))**	15"
PROFILE WALL PVC **(STD. SPEC. SECT. 9-05.12(2))**	15"

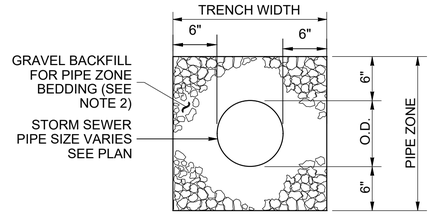
* CORRUGATED POLYETHYLENE STORM SEWER PIPE

NOTES

1. AS ACCEPTABLE ALTERNATIVES TO THE REBAR SHOWN IN THE **PRECAST BASE SECTION**, FIBERS (PLACED ACCORDING TO THE STANDARD SPECIFICATIONS), OR WIRE MESH HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT SHALL BE USED WITH THE MINIMUM REQUIRED REBAR SHOWN IN THE **ALTERNATIVE PRECAST BASE SECTION**. WIRE MESH SHALL NOT BE PLACED IN THE KNOCKOUTS.
2. THE KNOCKOUT DIAMETER SHALL NOT BE GREATER THAN 20" (IN). KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" (IN) MINIMUM TO 2.5" (IN) MAXIMUM. PROVIDE A 1.5" (IN) MINIMUM GAP BETWEEN THE KNOCKOUT WALL AND THE OUTSIDE OF THE PIPE. AFTER THE PIPE IS INSTALLED, FILL THE GAP WITH JOINT MORTAR IN ACCORDANCE WITH **STANDARD SPECIFICATION SECTION 9-04.3**.
3. THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE LOWEST PIPE INVERT SHALL BE 5' (FT).
4. THE FRAME AND GRATE MAY BE INSTALLED WITH THE FLANGE DOWN, OR INTEGRALLY CAST INTO THE ADJUSTMENT SECTION WITH FLANGE UP.
5. THE PRECAST BASE SECTION MAY HAVE A ROUNDED FLOOR, AND THE WALLS MAY BE SLOPED AT A RATE OF 1 : 24 OR STEEPER.
6. THE OPENING SHALL BE MEASURED AT THE TOP OF THE **PRECAST BASE SECTION**.
7. ALL PICKUP HOLES SHALL BE GROUTED FULL AFTER THE BASIN HAS BEEN PLACED.
8. CATCH BASINS TO BE SET ON 6" MIN. GRAVEL BACKFILL FOR PIPE ZONE BEDDING.

3 C5.4 TYPE 1 CATCH BASIN

SCALE: NOT TO SCALE

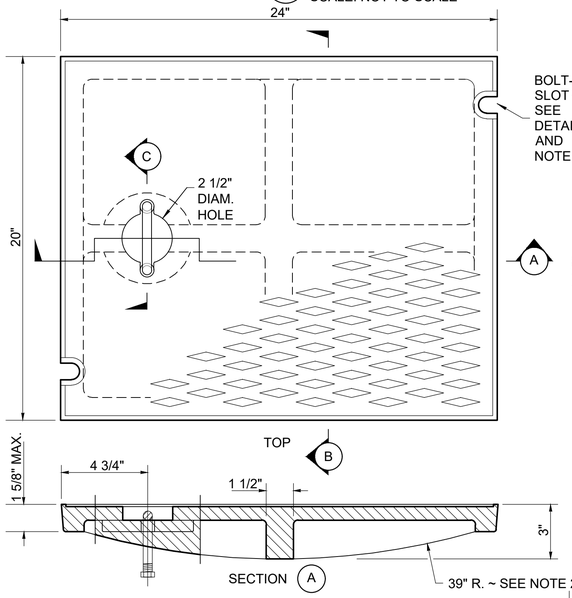


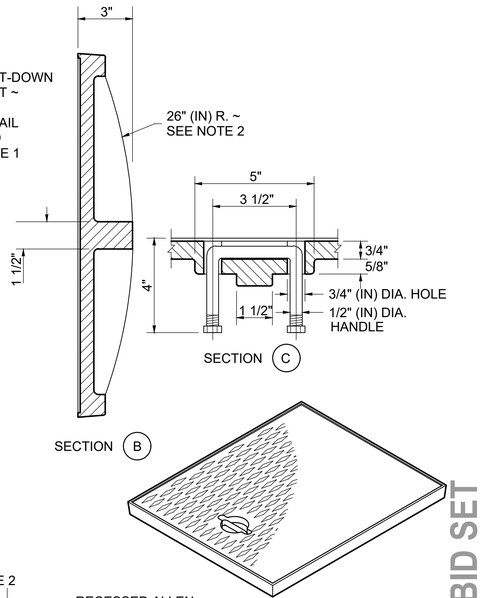
NOTES

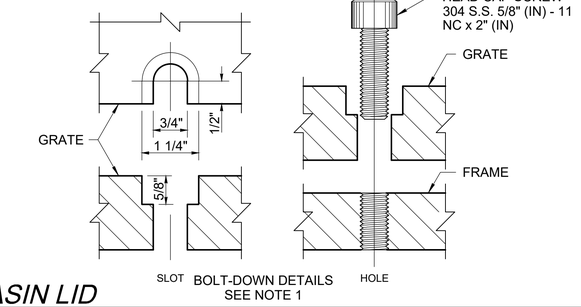
1. SEE **STANDARD SPECIFICATIONS SECTION 7-08.3(3)** FOR PIPE ZONE BACKFILL.
2. SEE **STANDARD SPECIFICATIONS SECTION 9-03.12(3)** FOR GRAVEL BACKFILL FOR PIPE ZONE BEDDING.

2 C5.4 PIPE ZONE BEDDING

SCALE: NOT TO SCALE







4 C5.4 CATCH BASIN LID

SCALE: NOT TO SCALE

BID SET

PRIVATE IMPROVEMENTS

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STATE OF WASHINGTON · JONAH HAYES · No. 24012382 EXP. 05/18/2026 · LICENSED LANDSCAPE ARCHITECT ·

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

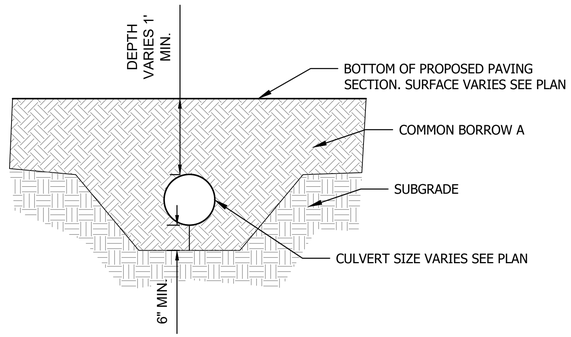
DRAINAGE DETAILS

C5.4

SCALE

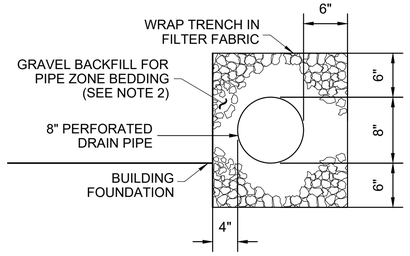
AS SHOWN

PARKS FILE#



1 C5.5 CULVERT

SCALE: NOT TO SCALE

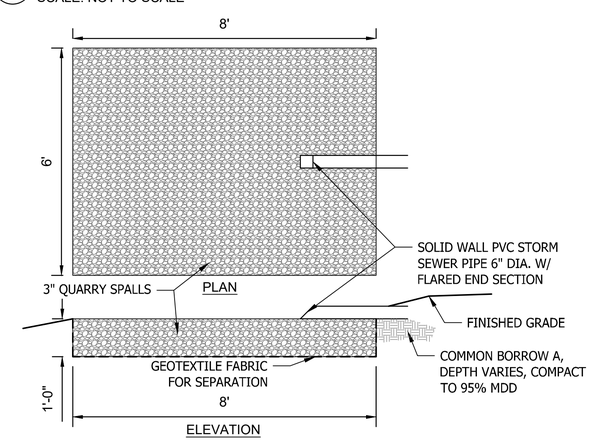


NOTES

1. SEE **STANDARD SPECIFICATIONS SECTION 7-08.3(3)** FOR PIPE ZONE BACKFILL.
2. SEE **STANDARD SPECIFICATIONS SECTION 9-03.12(3)** FOR GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
3. SEE STANDARD SPECIFICATIONS SECTION 9-33.2 FOR GEOTEXTILE FABRIC.

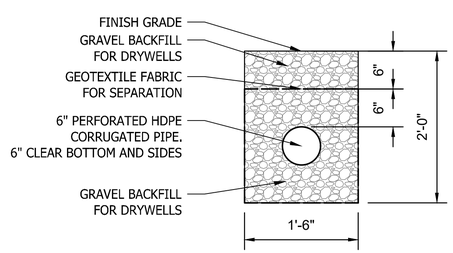
2 C5.5 FOOTING DRAIN

SCALE: NOT TO SCALE



4 C5.5 OUTFALL

SCALE: 1/2" = 1'-0"



5 C5.5 COLLECTOR TRENCH

SCALE: 1" = 1'-0"

PIPE											
PIPE DIAM. (INCHES)	THICKNESS (INCHES)		DIMENSIONS (INCHES)						SKIRT	END SECTION SLOPE (H : V)
			A	B	H	L	W	T		
	STEEL	ALUM.	TOL. ± 1"	MAX.	TOL. ± 1"	TOL. ± 1 1/2"	TOL. ± 2"	TOL. ± 2"		
12	0.064	0.060	6	6	6	21	24	34	1 PC.	2 1/2 : 1

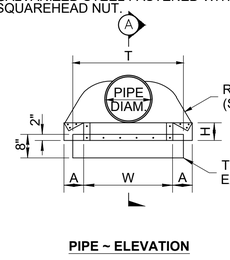
NOTES:

1. SKIRT SECTIONS SHALL BE MADE IN ONE PIECE FOR ROUND PIPE WITH A DIAMETER OF 12" (IN) TO 24" (IN) INCLUSIVE AND FOR PIPE ARCHES WITH A RISE OF 13" (IN) TO 20" (IN) INCLUSIVE. SKIRT SECTIONS FOR LARGER SIZES OF PIPES MAY BE MULTIPLE PIECES IN CONFORMANCE WITH THE TABULATED VALUES SHOWN.
2. **DESIGN A** END SECTIONS FOR 42" (IN) THRU 84" (IN) DIAMETER AND 49" (IN) X 33" (IN) THRU 83" (IN) X 57" (IN) ARCH WITH ANNULAR CORRUGATIONS AND ALL HELICALLY CORRUGATED PIPE ARCH INCLUDE ONE FOOT OF PIPE LENGTH AS A CONNECTOR SECTION. THE CONNECTOR SECTION SHALL BE ATTACHED TO THE END SECTION BY WELDS, RIVETS OR BOLTS AND SHALL BE THE SAME THICKNESS AS THE END SECTION.
3. THE REINFORCED EDGES OF THE FOLLOWING SIZE END SECTIONS SHALL BE SUPPLEMENTED WITH GALVANIZED STEEL STIFFENER ANGLES:

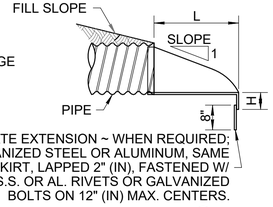
   60" (IN) THRU 72" (IN) DIAMETER PIPE ..... 2" (IN) X 2" (IN) X 1/4" (IN) ANGLE

   78" (IN) AND 84" (IN) DIAMETER PIPE, AND 77" (IN) X 52" (IN) & 83" (IN) X 57" (IN) PIPE ARCH ..... 2 1/2" (IN) X 2 1/2" (IN) X 1/4" (IN) ANGLE

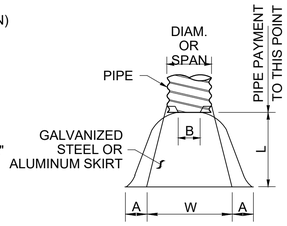
   THE ABOVE GALVANIZED ANGLES SHALL BE ATTACHED BY 3/8" (IN) GALVANIZED NUTS AND BOLTS.
4. GALVANIZED STEEL ANGLE REINFORCEMENT WILL BE PLACED UNDER THE CENTER PANEL SEAMS ON THE 72" (IN) THRU 84" (IN) DIAM. PIPE AND 77" (IN) X 52" (IN) & 83" (IN) X 57" (IN) PIPE ARCH END SECTIONS.
5. AS AN ALTERNATIVE TO THE CONNECTOR LUG AND THREADED ROD USED ON 12" (IN) THRU 24" (IN) CULVERT PIPE,THE ATTACHMENT MAY BE MADE WITH A 1" (IN) WIDE STRAP, 16 GAGE GALVANIZED STEEL FASTENED WITH A 1/2" (IN) DIAM., 6" (IN) LONG GALVANIZED BOLT AND ONE SQUAREHEAD NUT.



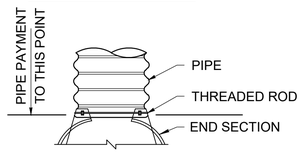
PIPE ~ ELEVATION



SECTION (A)



PIPE & PIPE ARCH ~ PLAN



FOR 30" (IN) THRU 84" (IN) PIPE AND 35" (IN) x 24" (IN) THRU 83" (IN) x 57" (IN) PIPE ARCH WITH ANNULAR END CORRUGATIONS

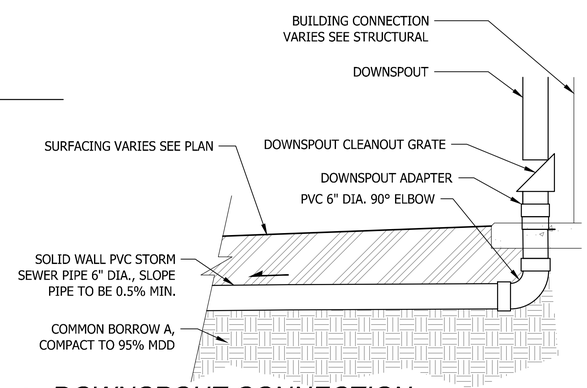
TYPE 2

CONNECTION TO METAL OR CORR. HDPE PIPE

DESIGN A

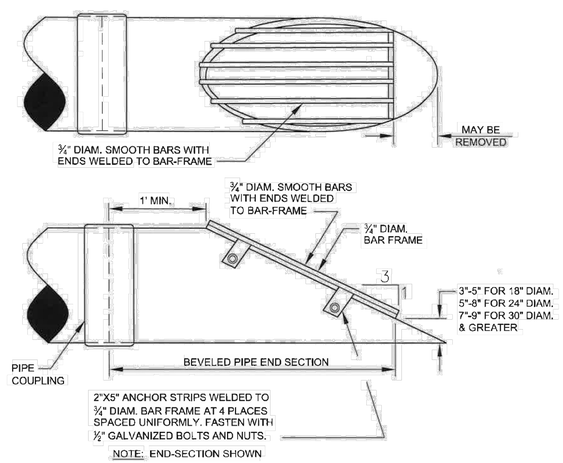
3 C5.5 FLARED END SECTION

SCALE: NOT TO SCALE



6 C5.5 DOWNSPOUT CONNECTION

SCALE: 1" = 1'-0"

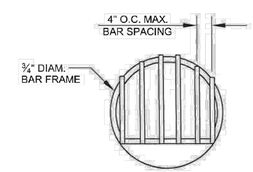


7 C5.5 CULVERT BARRIER

SCALE: NOT TO SCALE

NOTES:

1. CPEP -- SMOOTH INTERIOR PIPE REQUIRES BOLTS TO SECURE DEBRIS BARRIER TO PIPE.
2. ALL STEEL PARTS TO BE GALVANIZED AND ASPHALT COATED (TREATMENT 1 OR BETTER).



BID SET

PRIVATE IMPROVEMENTS

1021435 PERMIT #

COUNTY ENGINEER _____ DATE _____

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

1. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48-HOURS IN ADVANCE OF THE START OF CONSTRUCTION. CONTACT Dennis Patterson , THE AREA INSPECTOR, AT 253-798- 2539 .
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CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JH	6/20/25
DRAWN	JH	6/20/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · LICENSED LANDSCAPE ARCHITECT · No. 24012382 EXP. 05/18/2026

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

DRAINAGE DETAILS

C5.5

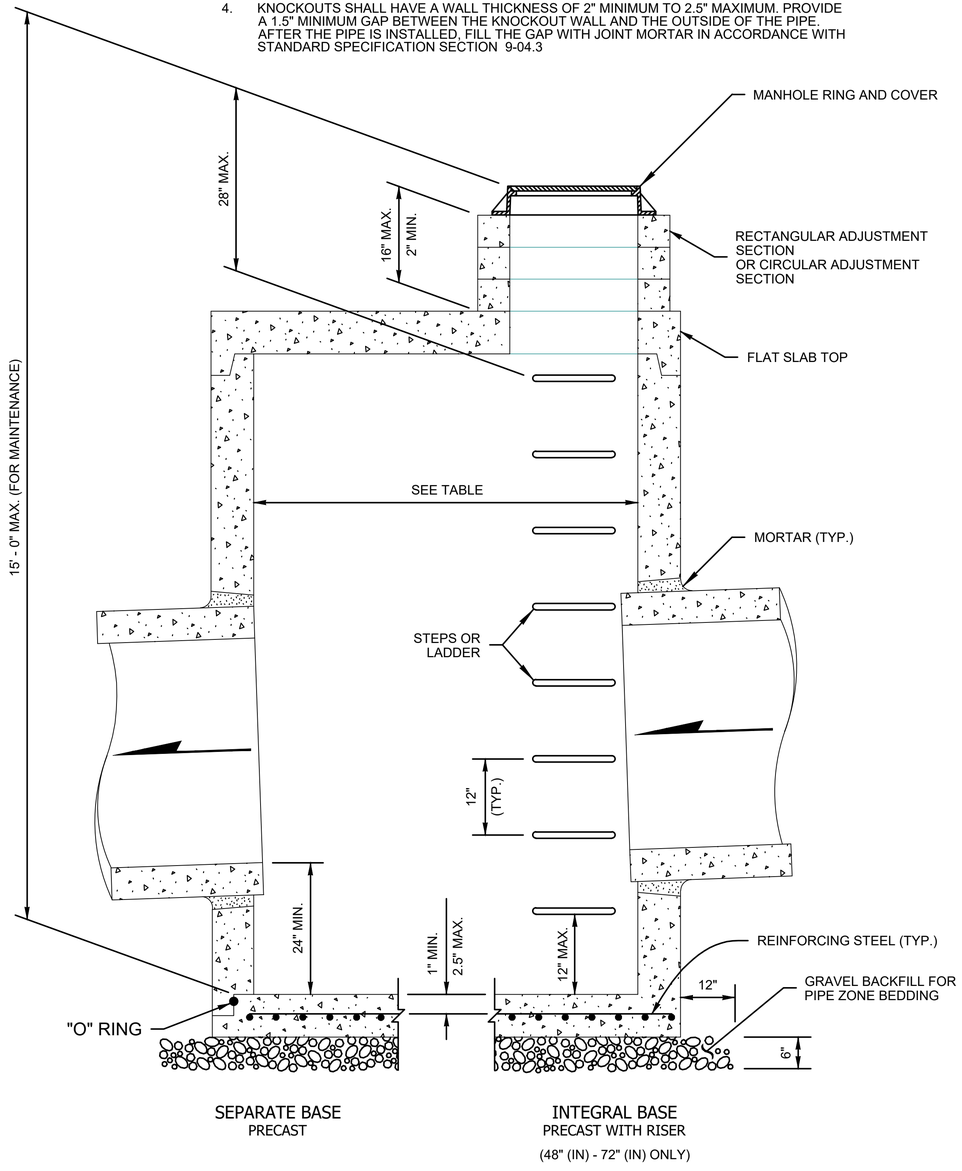
SCALE

AS SHOWN

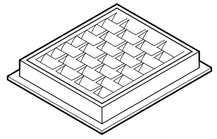
PARKS FILE#

NOTES

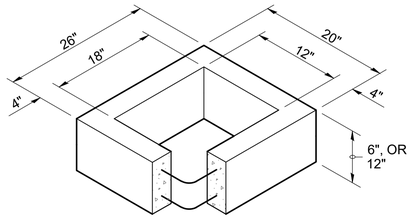
1. NO STEPS ARE REQUIRED WHEN HEIGHT IS 4' OR LESS.
2. THE BOTTOM OF THE PRECAST CATCH BASIN MAY BE SLOPED TO FACILITATE CLEANING.
3. THE RECTANGULAR FRAME AND GRATE MAY BE INSTALLED WITH THE FLANGE UP OR DOWN. THE FRAME MAY BE CAST INTO THE ADJUSTMENT SECTION.
4. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM TO 2.5" MAXIMUM. PROVIDE A 1.5" MINIMUM GAP BETWEEN THE KNOCKOUT WALL AND THE OUTSIDE OF THE PIPE. AFTER THE PIPE IS INSTALLED, FILL THE GAP WITH JOINT MORTAR IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 9-04.3



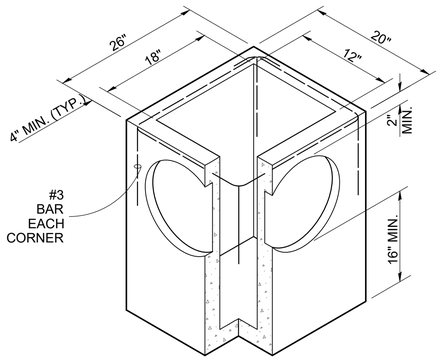
1 C5.6 *TYPE 2 CATCH BASIN*
SCALE: NOT TO SCALE



FRAME AND VANED GRATE

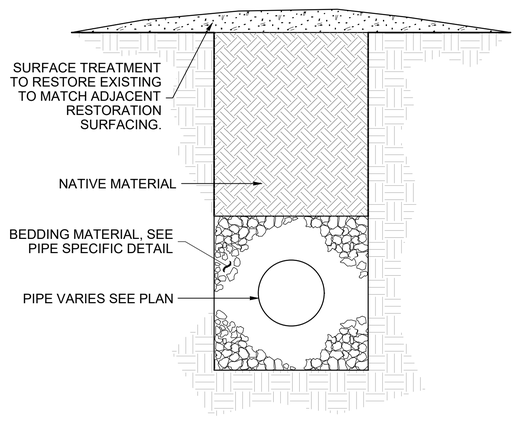


RECTANGULAR ADJUSTMENT SECTION



PRECAST BASE SECTION

2 C5.6 *TYPE 40 CATCH BASIN*
SCALE: 1/2" = 1'-0"



3 C5.6 *TRENCH RESTORATION*
SCALE: 1/2" = 1'-0"

NOTES

1. AS ACCEPTABLE ALTERNATIVES TO THE REBAR SHOWN IN THE **PRECAST BASE SECTION**, FIBERS (PLACED ACCORDING TO THE STANDARD SPECIFICATIONS), OR WIRE MESH HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT SHALL BE USED WITH THE MINIMUM REQUIRED REBAR SHOWN IN THE **ALTERNATIVE PRECAST BASE SECTION**. WIRE MESH SHALL NOT BE PLACED IN THE KNOCKOUTS.
2. THE KNOCKOUT DIAMETER SHALL NOT BE GREATER THAN 20" (IN). KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" (IN) MINIMUM TO 2.5" (IN) MAXIMUM. PROVIDE A 1.5" (IN) MINIMUM GAP BETWEEN THE KNOCKOUT WALL AND THE OUTSIDE OF THE PIPE. AFTER THE PIPE IS INSTALLED, FILL THE GAP WITH JOINT MORTAR IN ACCORDANCE WITH **STANDARD SPECIFICATION SECTION 9-04.3**.
3. THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE LOWEST PIPE INVERT SHALL BE 5' (FT).
4. THE FRAME AND GRATE MAY BE INSTALLED WITH THE FLANGE DOWN, OR INTEGRALLY CAST INTO THE ADJUSTMENT SECTION WITH FLANGE UP.
5. THE PRECAST BASE SECTION MAY HAVE A ROUNDED FLOOR, AND THE WALLS MAY BE SLOPED AT A RATE OF 1 : 24 OR STEEPER.
6. THE OPENING SHALL BE MEASURED AT THE TOP OF THE **PRECAST BASE SECTION**.
7. ALL PICKUP HOLES SHALL BE GROUTED FULL AFTER THE BASIN HAS BEEN PLACED.
8. ALL REINFORCING TO MEET ASTM A-615 GRADE 60 SPECIFICATIONS
9. 14" X 20" CAST IRON GRATE SHALL DROP IN THE RECESSED AREA AT THE TOP OF THE BASIN OR RISE
10. ALL CONCRETE SHALL BE 4,000 PSI MINIMUM
11. CATCH BASINS TO BE SET ON 6" MIN. GRAVEL BACKFILL FOR PIPE ZONE BEDDING

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

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CAD NO.

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DRAWN	JH	6/20/25
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CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · LICENSED LANDSCAPE ARCHITECT · No. 24012382 EXP. 05/18/2026

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

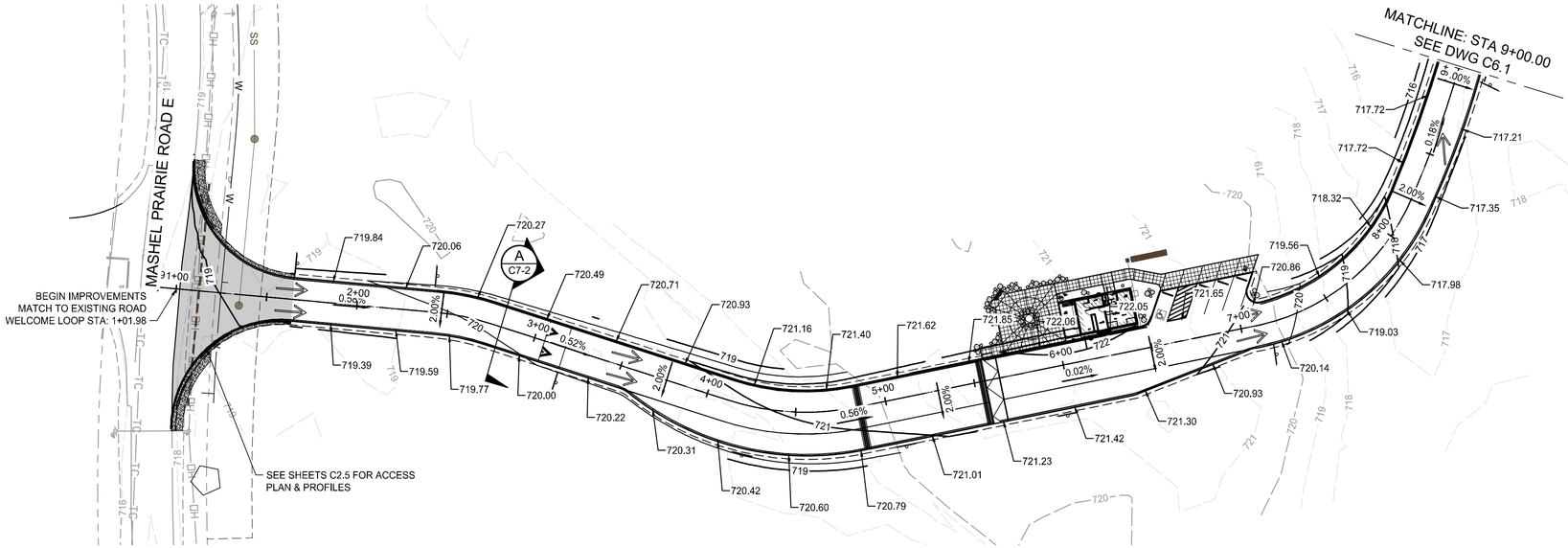
DRAINAGE DETAILS

C5.6

SCALE
AS SHOWN

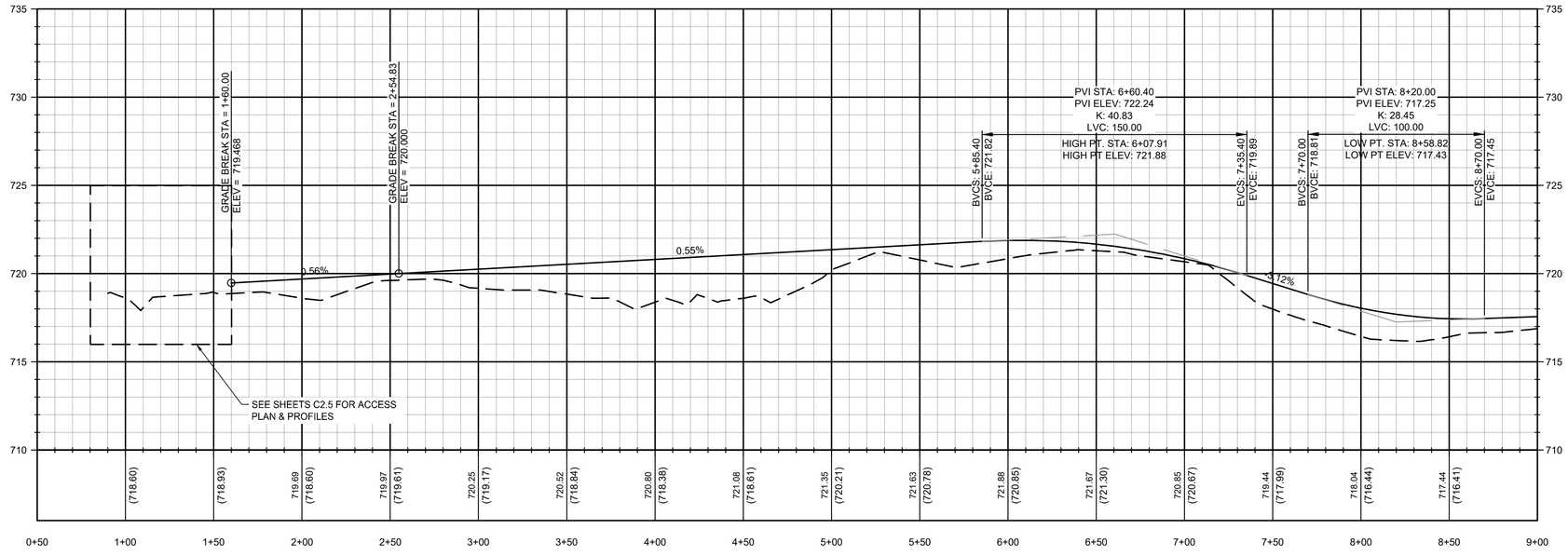
PARKS FILE#

BID SET



WELCOME CENTER LOOP PLAN
STA 1+00 - 9+00

SCALE: 1" = 40'



WELCOME CENTER LOOP PROFILE

SCALE: H: 1" = 40' V: 1" = 10'

PRIVATE IMPROVEMENTS

1021435
PERMIT #

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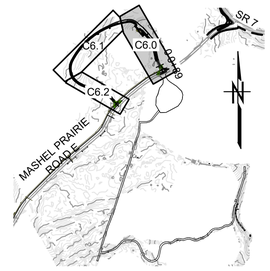

KEY MAP
NTS

BID SET

811 Call 811 two business days before you dig

SHEET 51 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEVEN DENNIS SCHMITZ
STATE OF WASHINGTON
48228
REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER AND LOOP TRAIL

WELCOME LOOP PLAN & PROFILE

C6.0

SCALE
40
0 SCALE IN FEET 80

PARKS FILE#

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Jun-04-25 8:05am

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER _____ DATE _____

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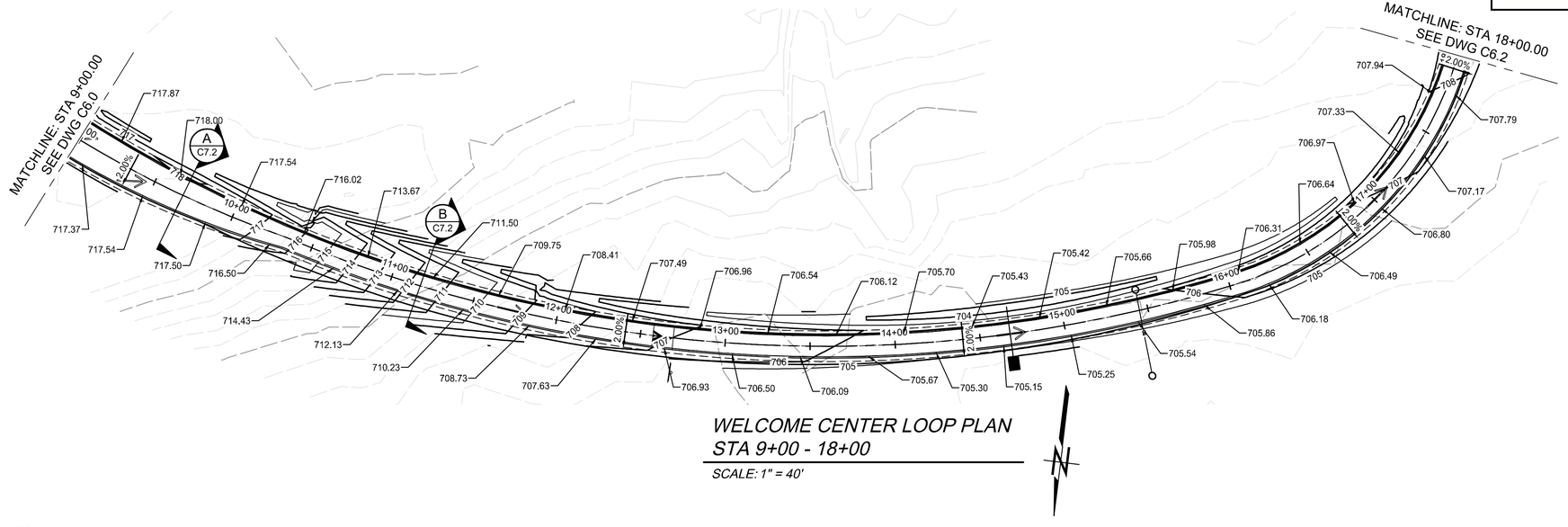
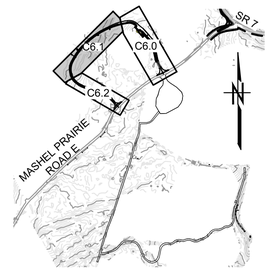
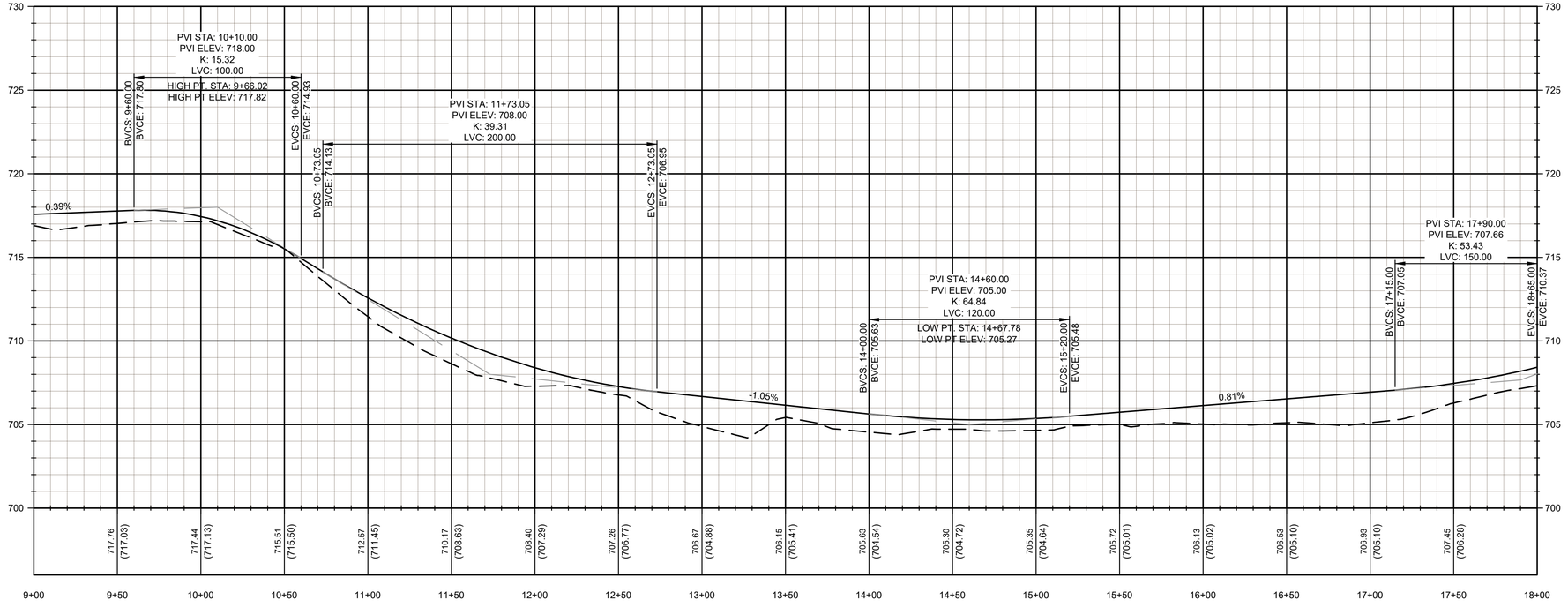


WELCOME CENTER LOOP PLAN
STA 9+00 - 18+00

SCALE: 1" = 40'



KEY MAP
NTS



WELCOME CENTER LOOP PROFILE

SCALE: H: 1" = 40' V: 1" = 10'

BID SET

811 Call 811 two business days before you dig

SHEET 52 OF 119

CAD NO.		
		DATE
		APP.
		INT.
		REVISIONS
		NO.

ACTION	BY	DATE
DESIGNED		
DRAWN		
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STEVEN DENNIS SCHMITZ
STATE OF WASHINGTON
46228
REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER AND LOOP TRAIL

WELCOME LOOP PLAN & PROFILE

C6.1

SCALE
40
0 SCALE IN FEET 80

PARKS FILE#

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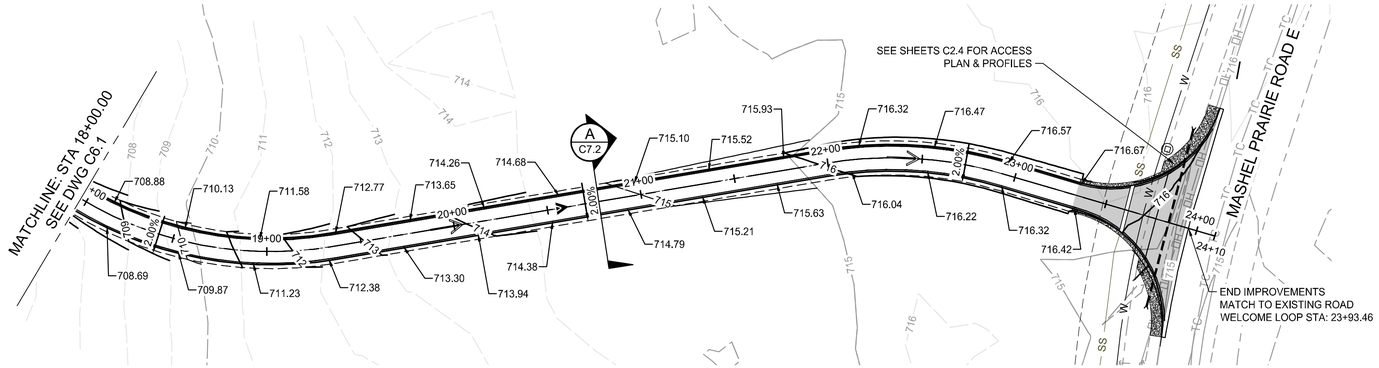
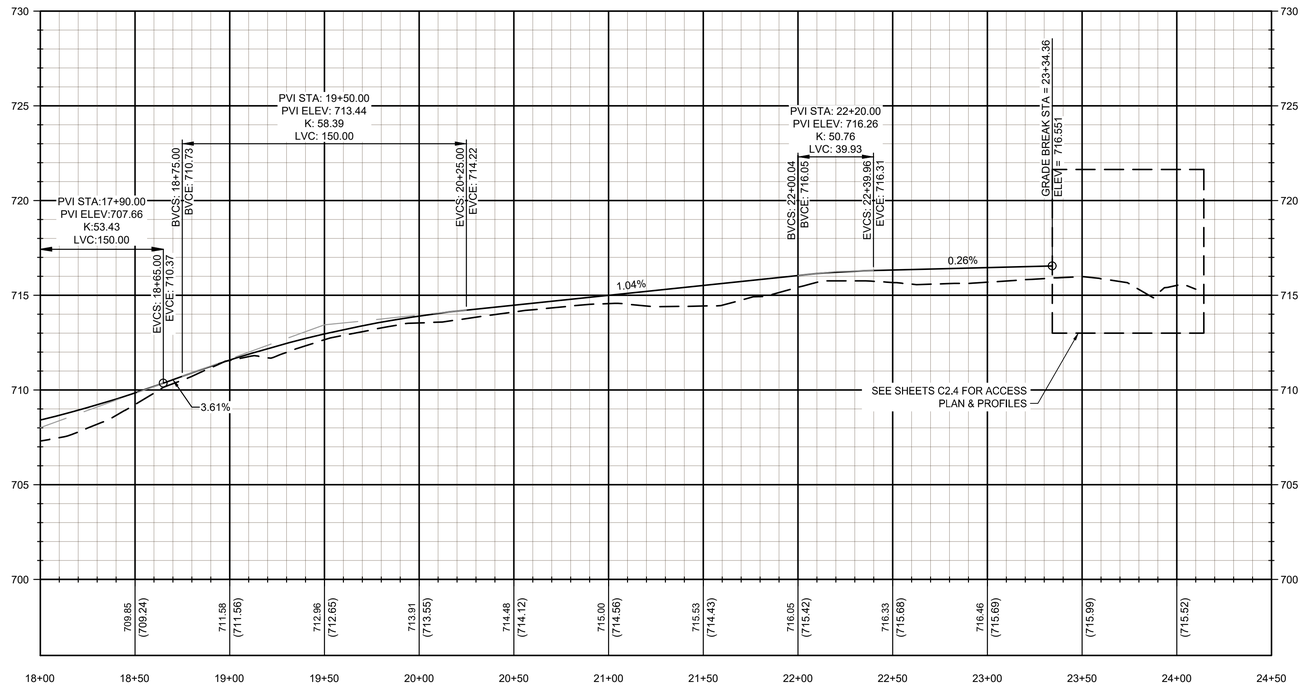


WELCOME CENTER LOOP PLAN
STA 18+00 - 24+00

SCALE: 1" = 40'



WELCOME CENTER LOOP PROFILE

SCALE: H: 1" = 40' V: 1" = 10'

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

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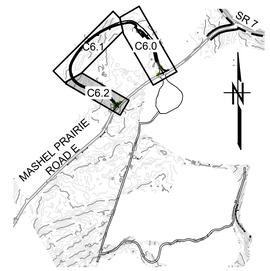

KEY MAP
NTS

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

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STEVEN DENNIS SCHMITZ
STATE OF WASHINGTON
46228
REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER AND LOOP TRAIL

WELCOME LOOP PLAN & PROFILE

C6.2

SCALE 40
0 SCALE IN FEET 80

PARKS FILE#

BID SET

811 Call 811 two business days before you dig

SHEET 53 OF 119

I:\2019\1018190030 - nisqually state park\CADD\DWG\PHASE 3\Campground Sheets\C6.0 THRU C6.2 - WELCOME LOOP PLAN & PROFILES.dwg
Jun-04-25 8:05am

PRIVATE IMPROVEMENTS

1021435
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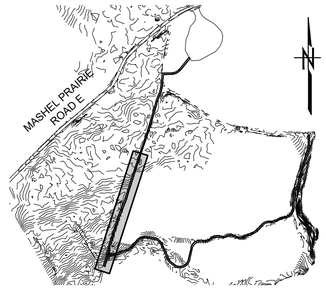
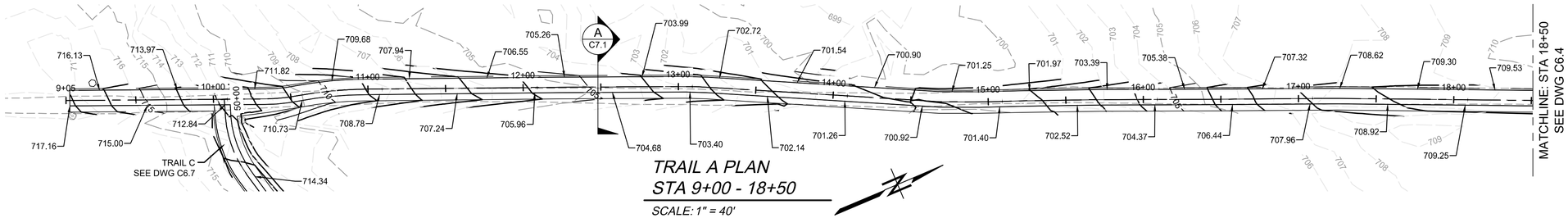
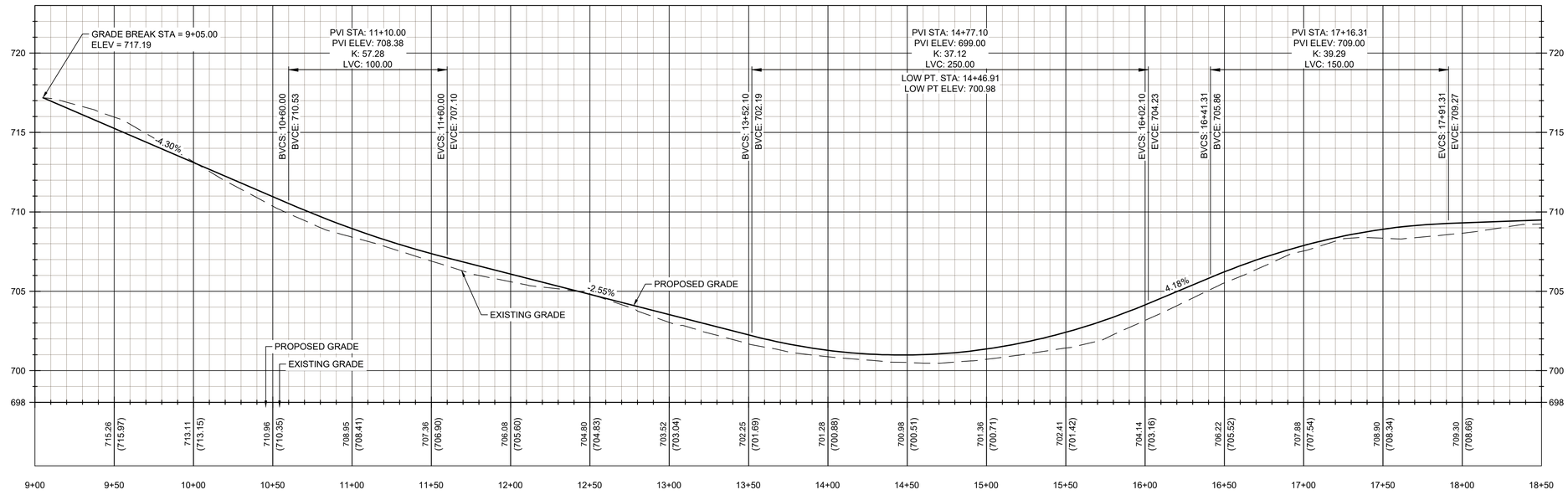


KEY MAP
SCALE: NTS



TRAIL A PLAN
STA 9+00 - 18+50
SCALE: 1" = 40'



TRAIL A PROFILE
SCALE: H: 1" = 40' V: 1" = 10'

BID SET

811 Call 811 two business days before you dig

SHEET 54 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

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DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEVEN DENNIS SCHMITZ — STATE OF WASHINGTON — 48228 — REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

TRAIL A PLAN
& PROFILE

C6.3

SCALE
40
0 SCALE IN FEET 80

PARKS FILE#

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Jun-04-25 8:04am

PRIVATE IMPROVEMENTS

1021435
PERMIT #

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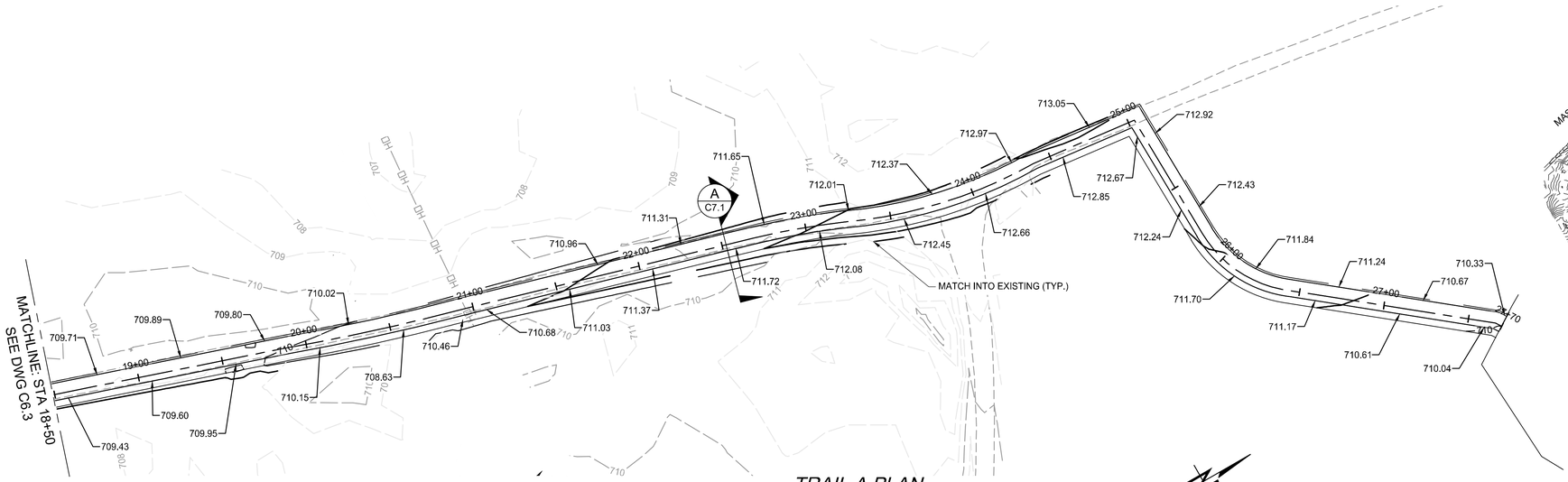
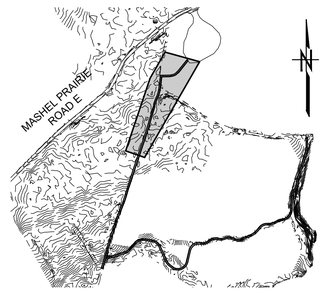


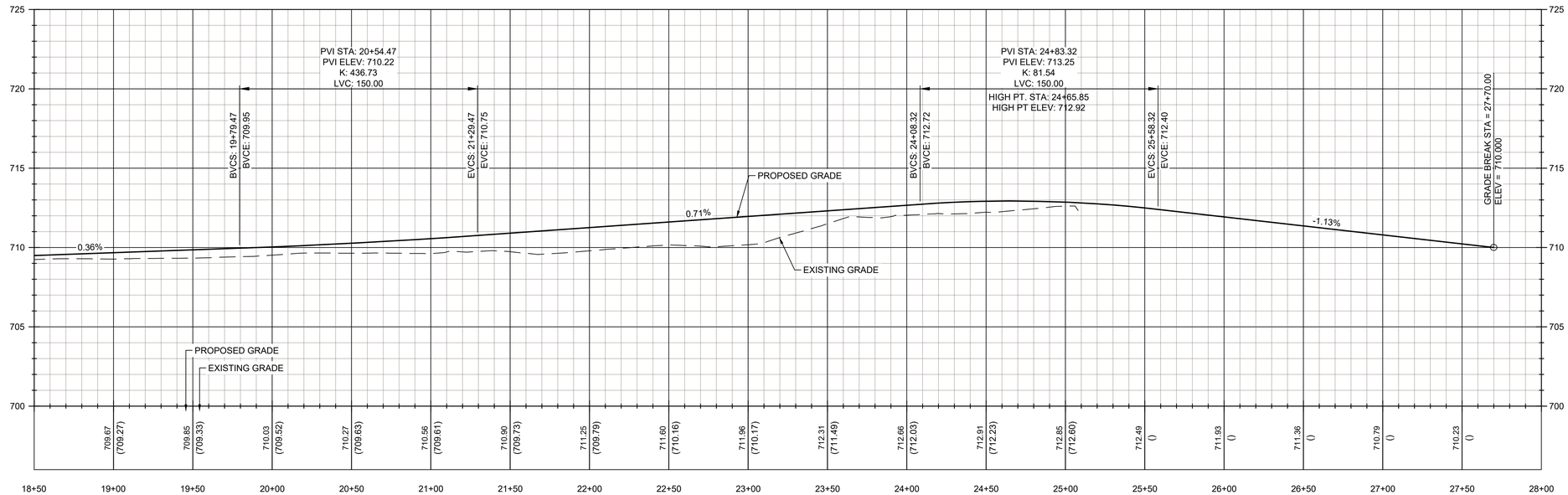
TRAIL A PLAN
STA 18+50 - 27+70

SCALE: 1" = 40'



KEY MAP

SCALE: NTS



TRAIL A PROFILE

SCALE: H: 1" = 40' V: 1" = 10'

811 Call 811 two business days before you dig

SHEET 55 OF 119

BID SET

REVISIONS	INT.	APP.	DATE
NO.			

CAD NO.

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DESIGNED		
DRAWN		
CHECKED (FIELD)		
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STEVEN DENNIS SCHMITZ — STATE OF WASHINGTON — 48228 — REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

TRAIL A PLAN
& PROFILE

C6.4

SCALE
40
0 SCALE IN FEET 80

PARKS FILE#

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Jun-04-25 8:04am

PRIVATE IMPROVEMENTS

1021435
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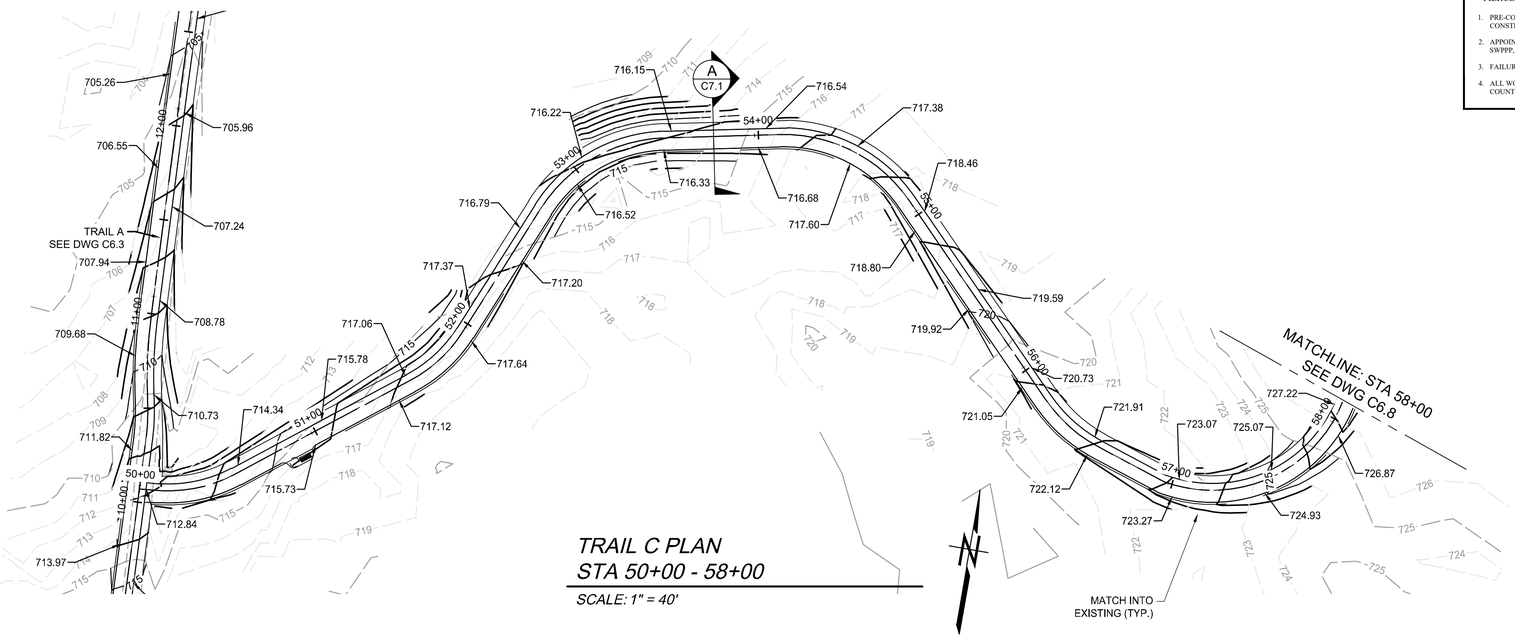
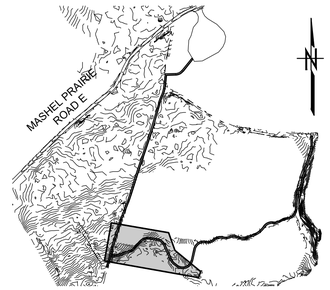
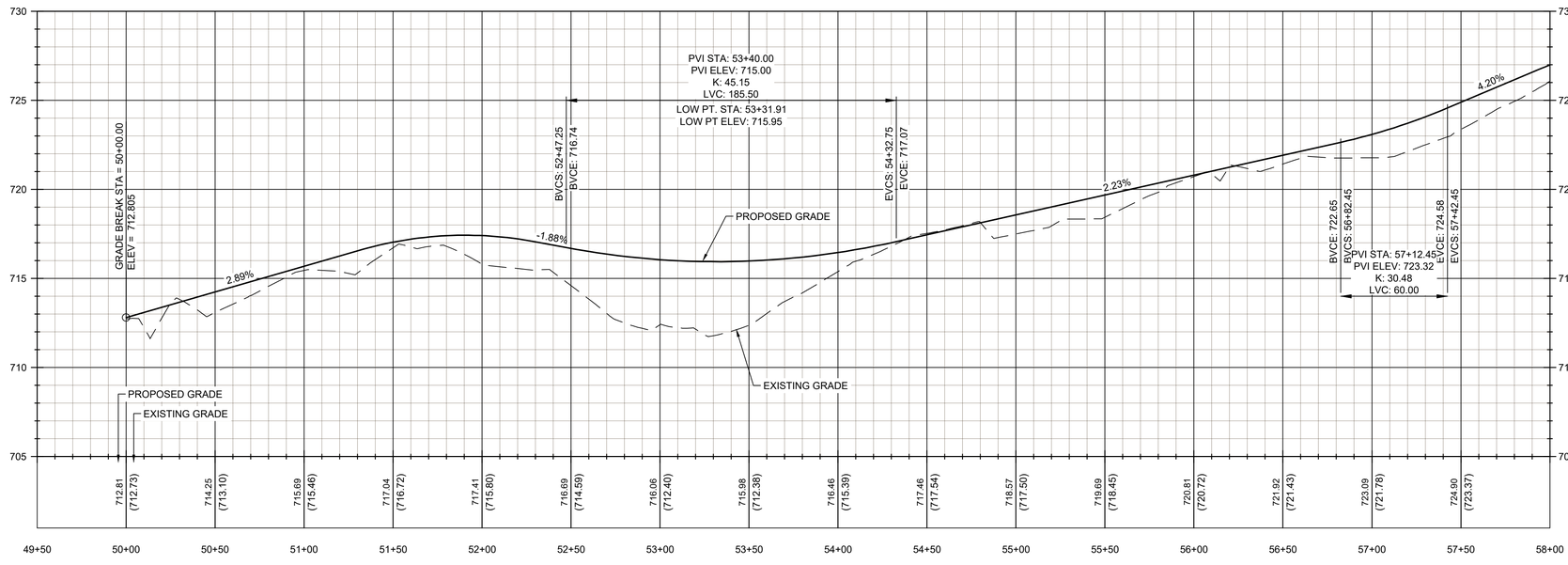


TRAIL C PLAN
STA 50+00 - 58+00
SCALE: 1" = 40'



KEY MAP
SCALE: NTS



TRAIL C PROFILE
SCALE: H: 1" = 40' V: 1" = 10'

BID SET

811 Call 811 two business days before you dig

SHEET 56 OF 119

CAD NO.		
		DATE
		APP.
		INT.
		REVISIONS
		NO.

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEVEN DENNIS SCHMITZ — STATE OF WASHINGTON — 48228 — REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

TRAIL C PLAN
& PROFILE

C6.5

SCALE
0 40 80
SCALE IN FEET

PARKS FILE#

I:\2019\1018190030 - nisqually state park\CAD\DWG\PHASE 3\Campground Sheets\C6.3 THRU C6.10 - TRAIL PLAN & PROFILES.dwg
Jun-04-25 8:04am

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

1. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48-HOURS IN ADVANCE OF THE START OF CONSTRUCTION. CONTACT Dennis Patterson , THE AREA INSPECTOR, AT 253-798- 2539 .
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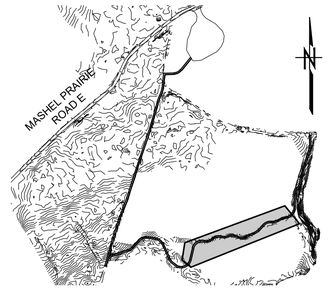
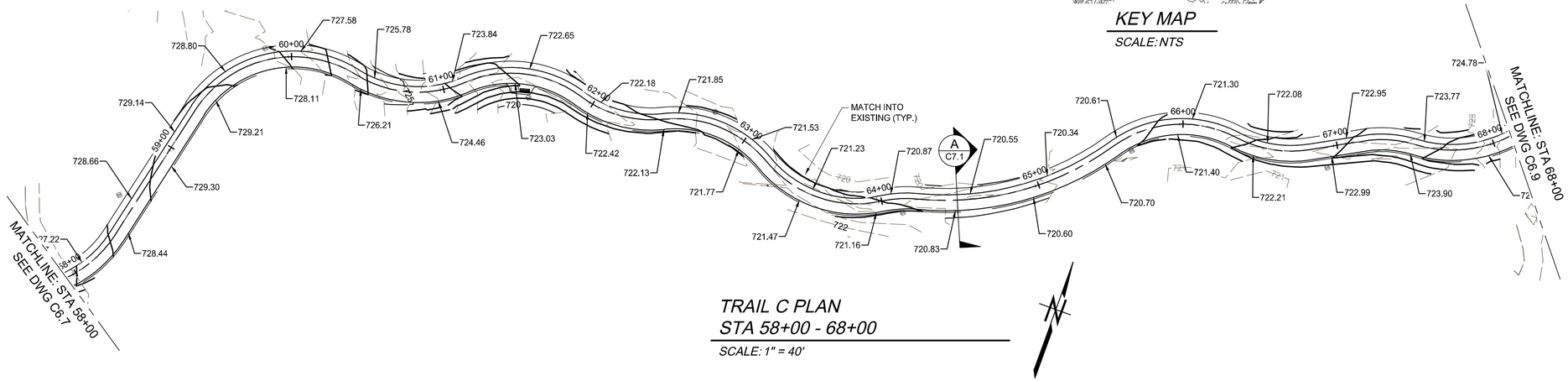
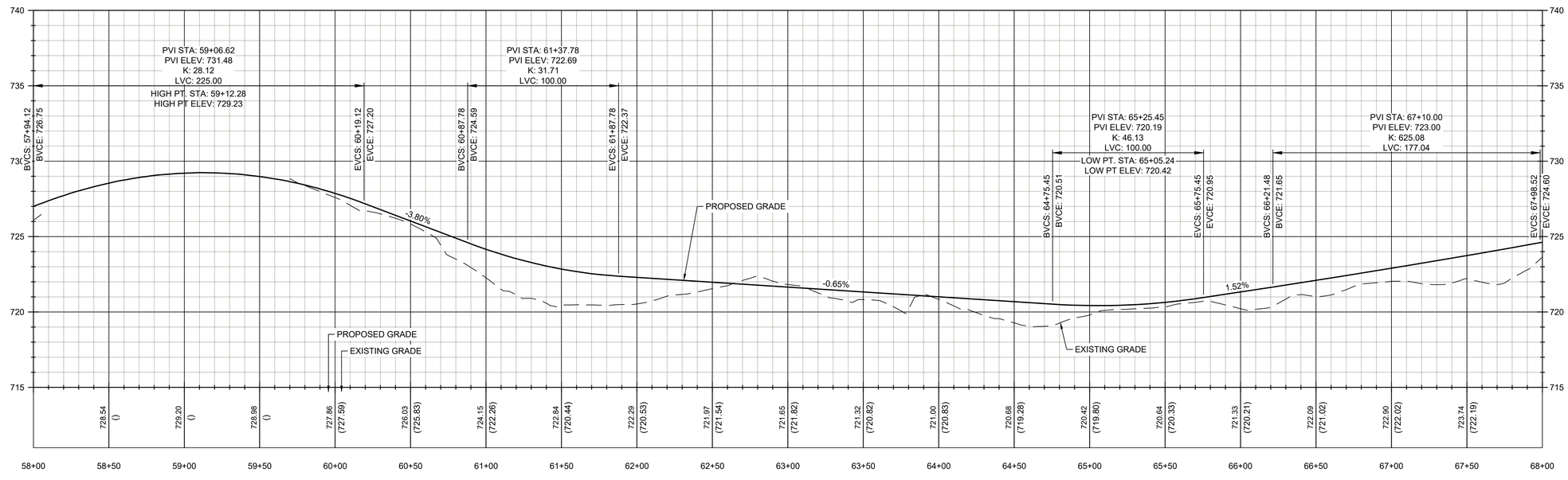


KEY MAP
SCALE: NTS



TRAIL C PLAN
STA 58+00 - 68+00
SCALE: 1" = 40'



TRAIL C PROFILE
SCALE: H: 1" = 40' V: 1" = 10'

811 Call 811 two business days before you dig

SHEET 57 OF 119

BID SET

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEVEN DENNIS SCHMITZ — STATE OF WASHINGTON — 48228 — REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

TRAIL C PLAN
& PROFILE

C6.6

SCALE
40
0 SCALE IN FEET 80

PARKS FILE#

I:\2019\1018900030 - nisqually state park\CADD\DWG\PHASE 3\Campground Sheets\C6.3 THRU C6.10 - TRAIL PLAN & PROFILES.dwg
Jun-04-25 8:04am

PRIVATE IMPROVEMENTS

1021435
PERMIT #

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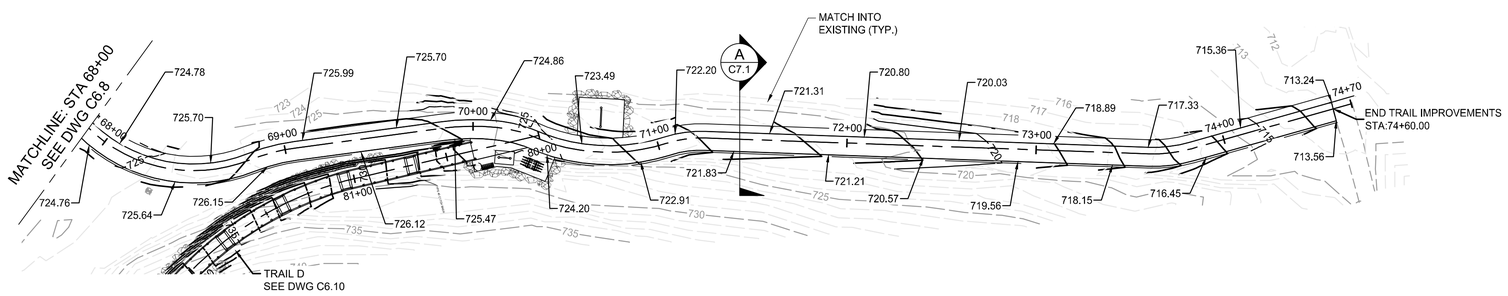
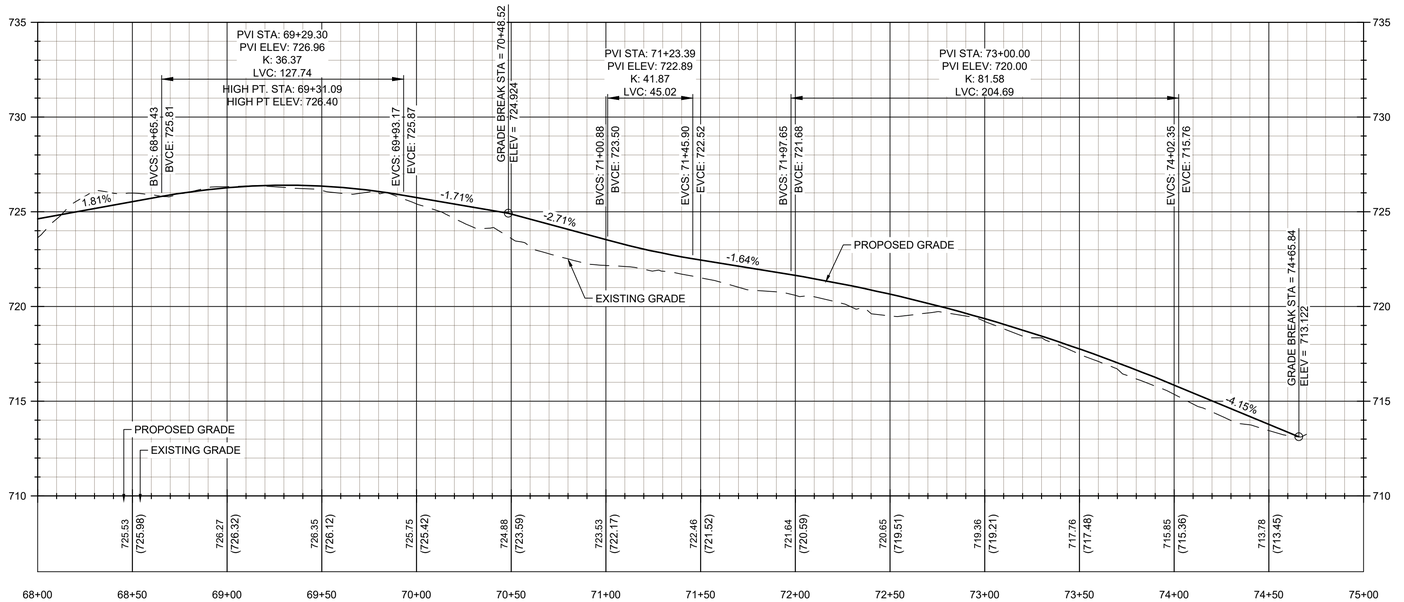


TRAIL C PLAN
STA 68+00 - 75+00

SCALE: 1" = 40'

KEY MAP
SCALE: NTS



TRAIL C PROFILE

SCALE: H: 1" = 40' V: 1" = 10'

BID SET

811 Call 811 two business days before you dig

SHEET 58 OF 119

NO.	REVISIONS	INT.	APP.	DATE

CAD NO.

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEVEN DENNIS SCHMITZ — STATE OF WASHINGTON — 48228 — REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

TRAIL C PLAN & PROFILE

C6.7

SCALE
40
0 SCALE IN FEET 80

PARKS FILE#

i:\2019\10181900030 - nisqually state park\CADD\DWG\PHASE 3\Campground Sheets\C6.3 THRU C6.10 - TRAIL PLAN & PROFILES.dwg
Jun-04-25 8:03am

PRIVATE IMPROVEMENTS

1021435
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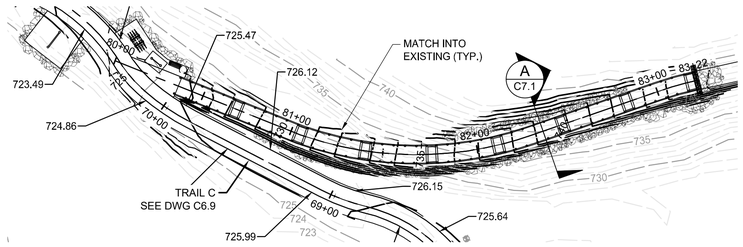
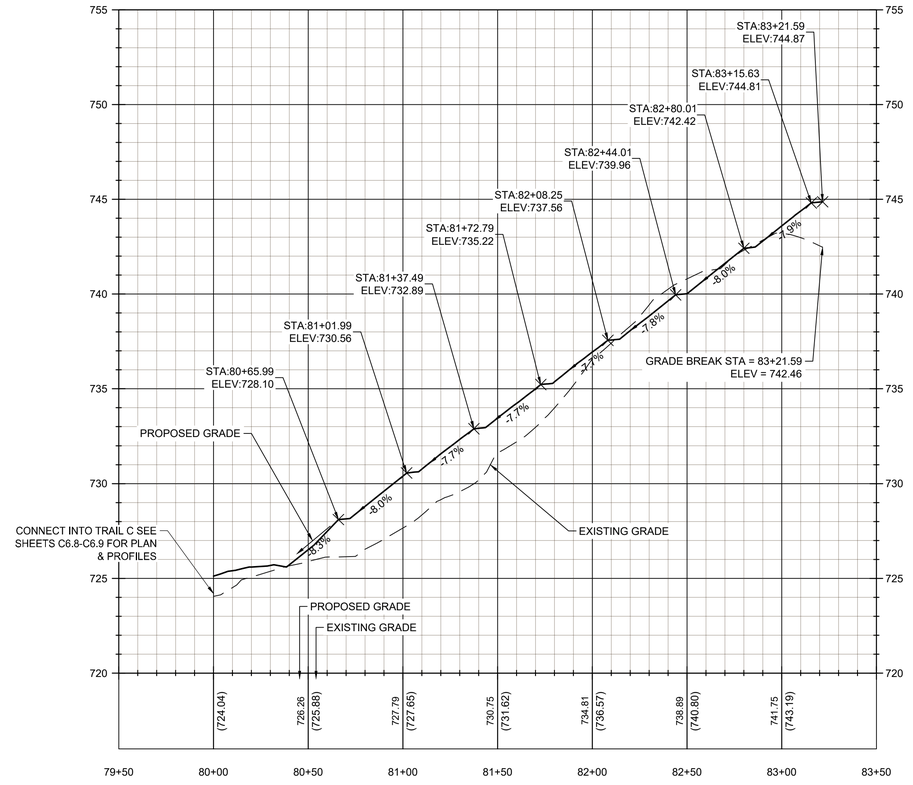


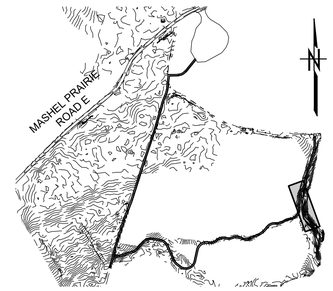
TRAIL D PLAN
STA 80+00 - 83+50

SCALE: 1" = 40'



TRAIL D PROFILE

SCALE: H: 1" = 40' V: 1" = 10'



KEY MAP

SCALE: NTS

NO.	REVISIONS	INT.	APP.	DATE

CAD NO.

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEVEN DENNIS SCHMITZ
STATE OF WASHINGTON
46228
REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER AND LOOP TRAIL

TRAIL D PLAN & PROFILE

C6.8

BID SET

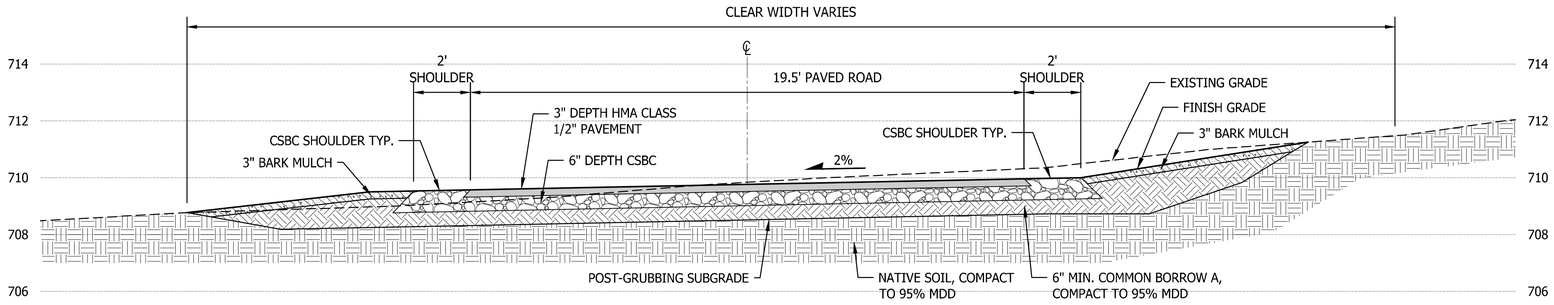
811 Call 811 two business days before you dig

SCALE
40
0 SCALE IN FEET 80

PARKS FILE#

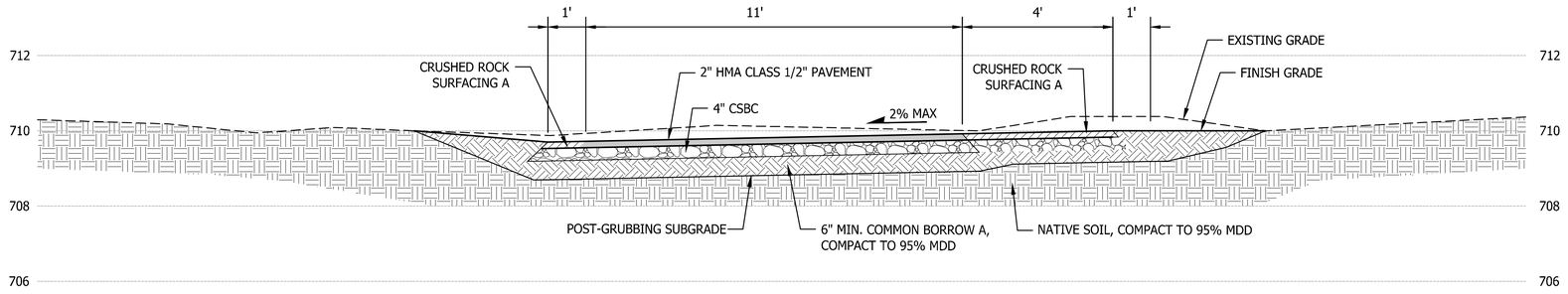
SHEET 59 OF 119

I:\2019\10181900030 - nisqually state park\CADD\DWG\PHASE 3\Campground Sheets\C6.3 THRU C6.10 - TRAIL PLAN & PROFILES.dwg
Jun-04-25 8:03am



1 C7.0 LOOP ROAD @ WELCOME CENTER

SCALE: 3/8"= 1'-0"



2 C7.0 MULTI-USE TRAIL @ MASHEL RIVER LOOP TRAIL

SCALE: 1/2"= 1'-0"

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

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CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/18/2026 · LICENSED LANDSCAPE ARCHITECT ·

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

CROSS SECTIONS

C7.0

SCALE
AS SHOWN

PARKS FILE#

BID SET

811 Call 811 two business days before you dig

SHEET 60 OF 119

G:\2018\18062A New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\C7.0 Site Cross Sections - WC.dwg
May-05-25 10:57am

PRIVATE IMPROVEMENTS

1021435
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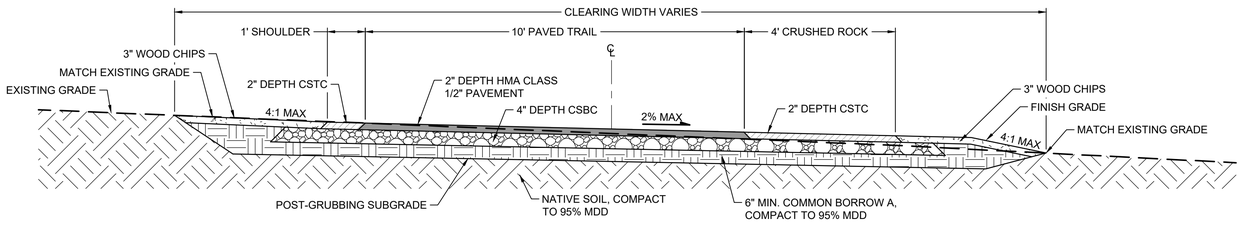

A *TRAIL SECTION*
SCALE: NTS

BID SET

811 Call 811 two business days before you dig

SHEET 61 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED		
DRAWN		
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STEPHEN DENNIS SCHMITZ — STATE OF WASHINGTON — 46228 — REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

ROAD & TRAIL SECTIONS
C7.1

SCALE
0 SCALE IN FEET 2 4

PARKS FILE#

I:\2019\1018190030 - nisqually state park\CADD\DWG\PHASE 3\Campground Sheets\C6.1 & C7.1 - ROAD & TRAIL SECTIONS.dwg
Jun-04-25 8:03am

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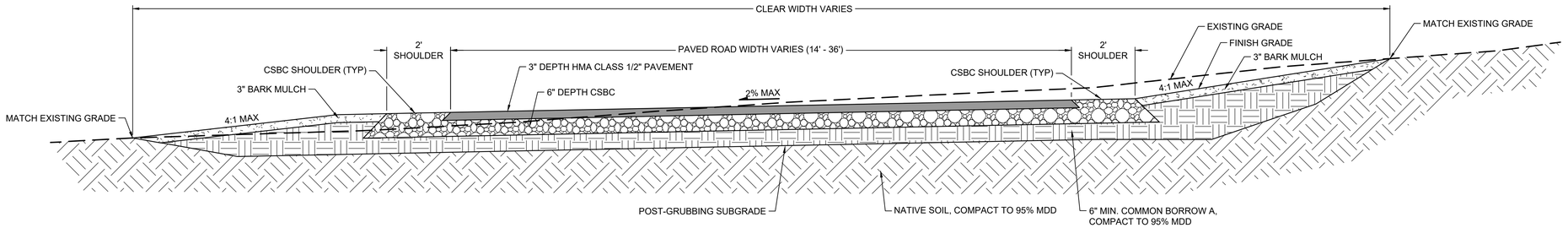
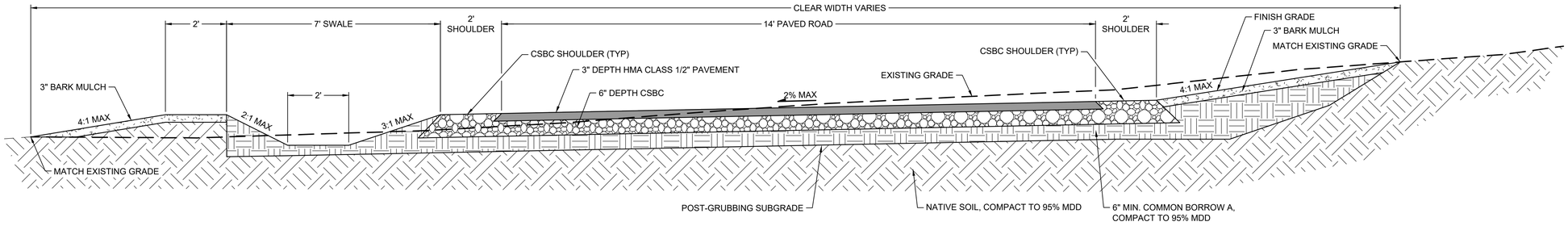


A *WELCOME CENTER LOOP SECTION*
SCALE: NTS



B *WELCOME CENTER LOOP WITH SWALE SECTION*
SCALE: NTS

BID SET

Call 811 two business days before you dig

SHEET 62 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEVEN DENNIS SCHMITZ — STATE OF WASHINGTON — 46228 — REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

ROAD & TRAIL SECTIONS C7.2

SCALE
0 2 4
SCALE IN FEET

PARKS FILE#

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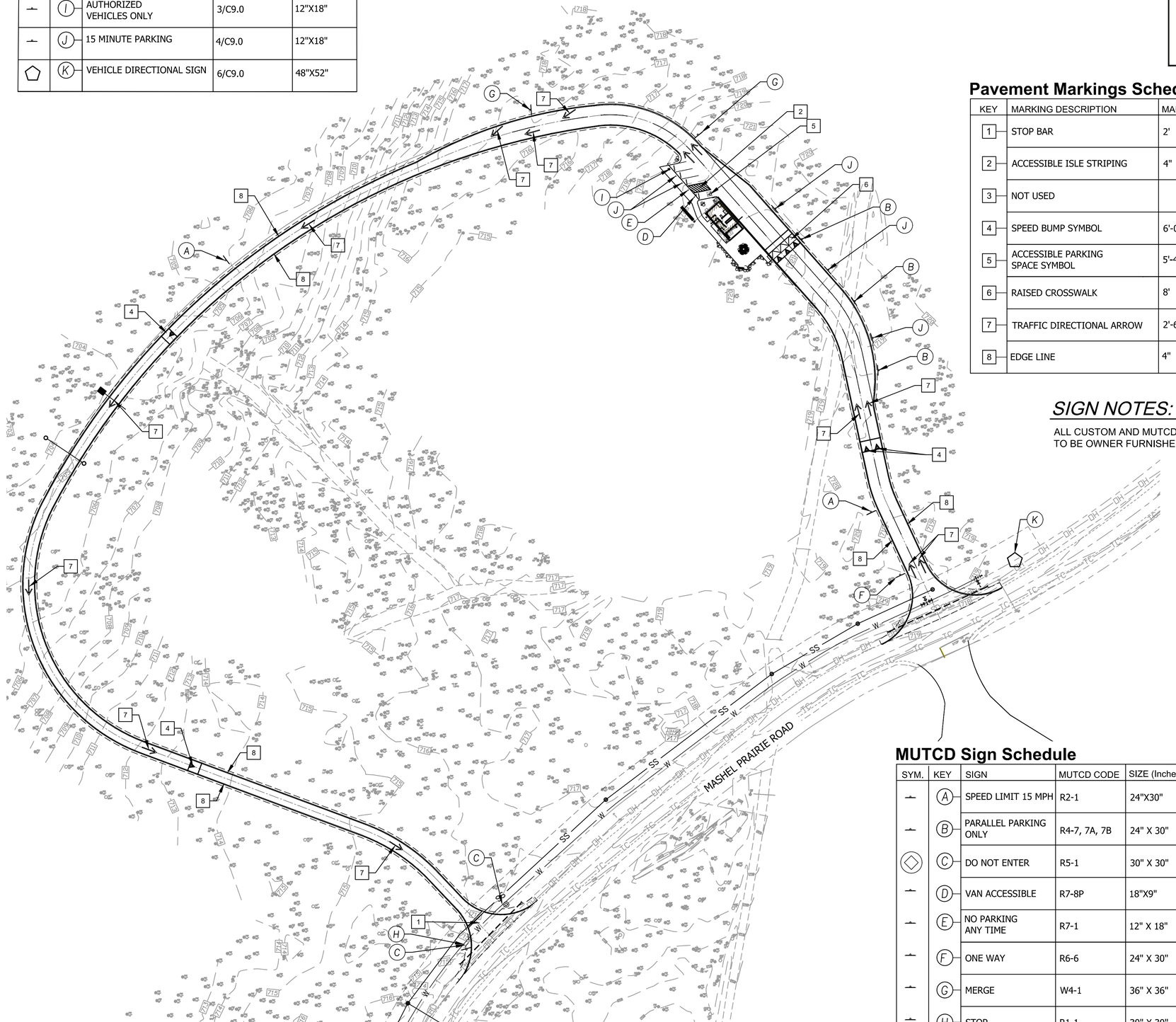
Jun-04-25 8:03am

Custom Sign Schedule

SYM.	KEY	SIGN	DETAIL	SIZE (Inches)
⊣	I	AUTHORIZED VEHICLES ONLY	3/C9.0	12"X18"
⊣	J	15 MINUTE PARKING	4/C9.0	12"X18"
⬠	K	VEHICLE DIRECTIONAL SIGN	6/C9.0	48"X52"



Pavement Markings Schedule

KEY	MARKING DESCRIPTION	MARKING WIDTH	MARKING LENGTH	DETAIL/PLAN
1	STOP BAR	2'	38'	SEE 1/C9.1
2	ACCESSIBLE ISLE STRIPING	4"	VARIES	SEE 4/C9.1
3	NOT USED			
4	SPEED BUMP SYMBOL	6'-0"	6'-0"	SPEED BUMP SYMBOL PER WSDOT M-24.60-04
5	ACCESSIBLE PARKING SPACE SYMBOL	5'-4"	5'-4"	PER WSDOT M-24.60-04
6	RAISED CROSSWALK	8'	36'	SEE 2/C9.1
7	TRAFFIC DIRECTIONAL ARROW	2'-6"	8'	TYPE 1S TRAFFIC ARROW PER WSDOT M-24.40-02
8	EDGE LINE	4"	VARIES	EDGE LINE PER WSDOT M-20.10-04

SIGN NOTES:

ALL CUSTOM AND MUTCD STANDARD SIGN PANELS TO BE OWNER FURNISHED CONTRACTOR INSTALLED

MUTCD Sign Schedule

SYM.	KEY	SIGN	MUTCD CODE	SIZE (Inches)
⊣	A	SPEED LIMIT 15 MPH	R2-1	24"X30"
⊣	B	PARALLEL PARKING ONLY	R4-7, 7A, 7B	24" X 30"
◇	C	DO NOT ENTER	R5-1	30" X 30"
⊣	D	VAN ACCESSIBLE	R7-8P	18"X9"
⊣	E	NO PARKING ANY TIME	R7-1	12" X 18"
⊣	F	ONE WAY	R6-6	24" X 30"
⊣	G	MERGE	W4-1	36" X 36"
⊣	H	STOP	R1-1	30" X 30"

Call 811 two business days before you dig

SHEET 63 OF 119

BID SET

PRIVATE IMPROVEMENTS

1021435 PERMIT #

COUNTY ENGINEER _____ DATE _____

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STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/16/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

SIGNAGE & STRIPING PLAN - WELCOME CENTER LOOP

C8.0

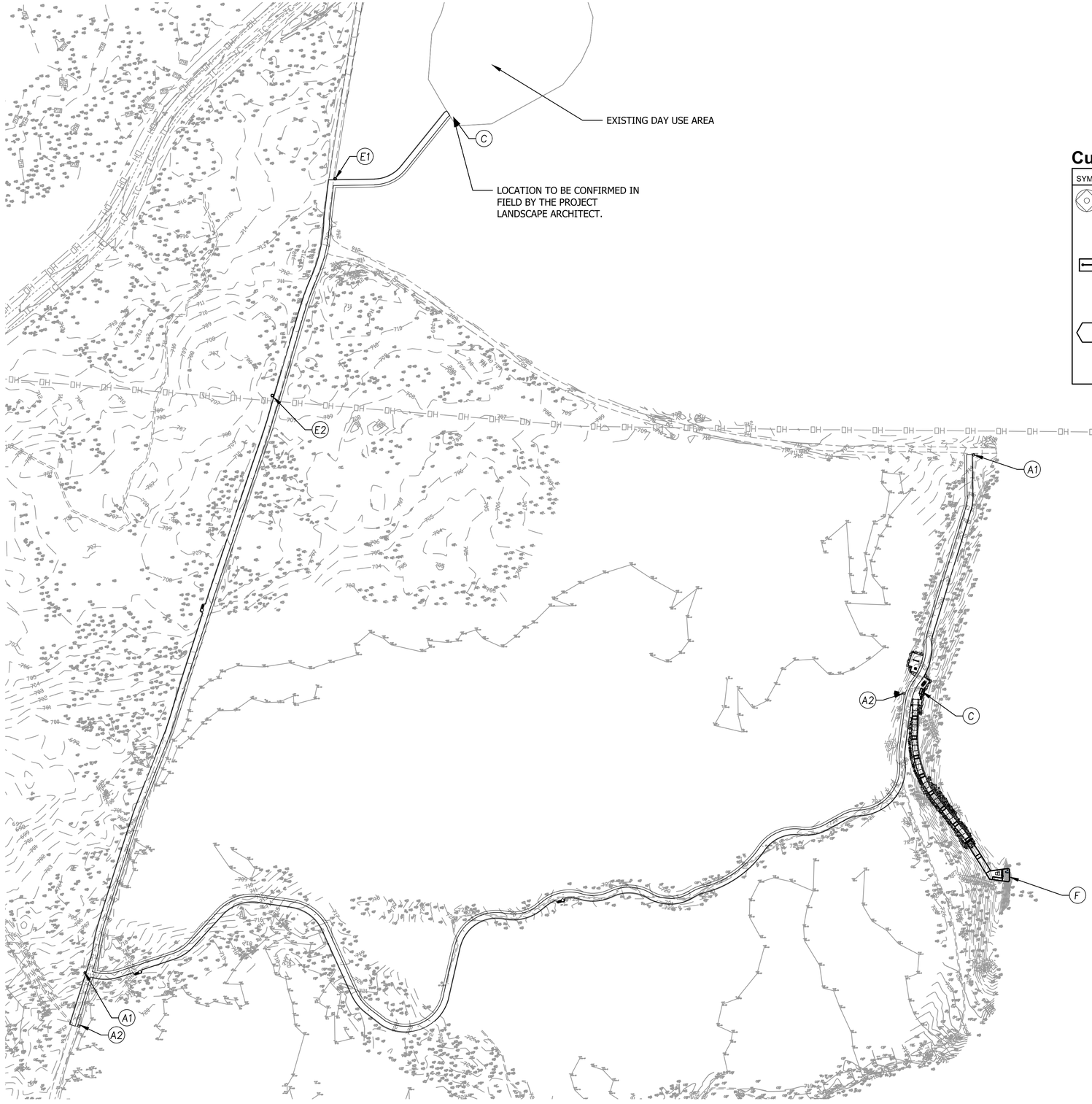
SCALE

SCALE: 1"=60'

0 30' 60' 90' 120'

PARKS FILE#

O:\2018\180620A New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\C8.0 Signage and Striping Plan – WC.dwg
Jun-20-25 11:51:am



Custom Sign Schedule

SYM.	KEY	SIGN	DETAIL	SIZE (Inches)
	A	LOOP TRAIL DIRECTIONAL SIGN	7/C9.0	12"X12"
	B	NOT USED		
	C	1 SIDED RECTANGULAR KIOSK	1-5/C3.3	6'x4'
	D	NOT USED		
	E	DAY USE AREA DIRECTIONAL SIGN	8/C9.0	12"X18"
	F	OVERLOOK INTERPRETIVE SIGN	NIC	48"X33"

SIGN NOTES:

ALL CUSTOM AND MUTCD STANDARD SIGN PANELS TO BE OWNER FURNISHED CONTRACTOR INSTALLED

BID SET

811 Call 811 two business days before you dig

SHEET 64 OF 119

PRIVATE IMPROVEMENTS

1021435
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STATE OF WASHINGTON · JONAH HAYES · No. 24012382 EXP. 05/18/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

SIGNAGE & STRIPING PLAN - MASHEL RIVER OVERLOOK TRAIL

C8.1

SCALE

SCALE: 1"=100'

0 50' 100' 150' 200'

PARKS FILE#

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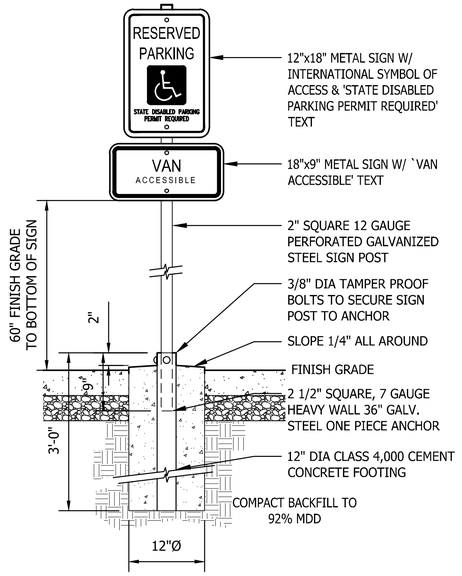
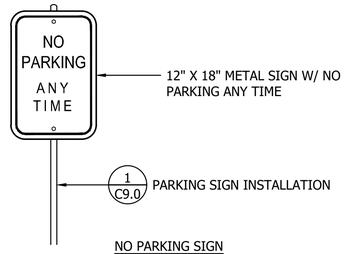
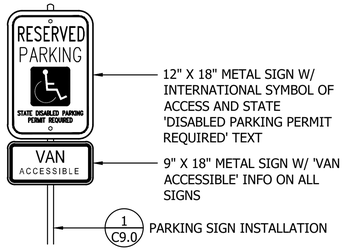
May-05-25 10:59am

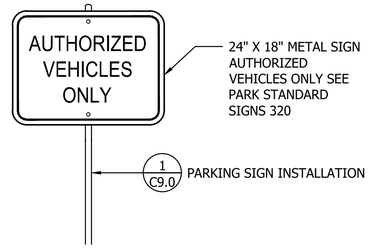


1 C9.0 *PARKING SIGN INSTALLATION*
SCALE: 1" = 1'-0"

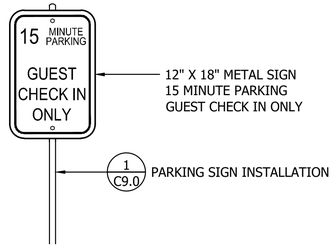




2 C9.0 *ACCESSIBLE PARKING SIGN*
SCALE: 1" = 1'-0"



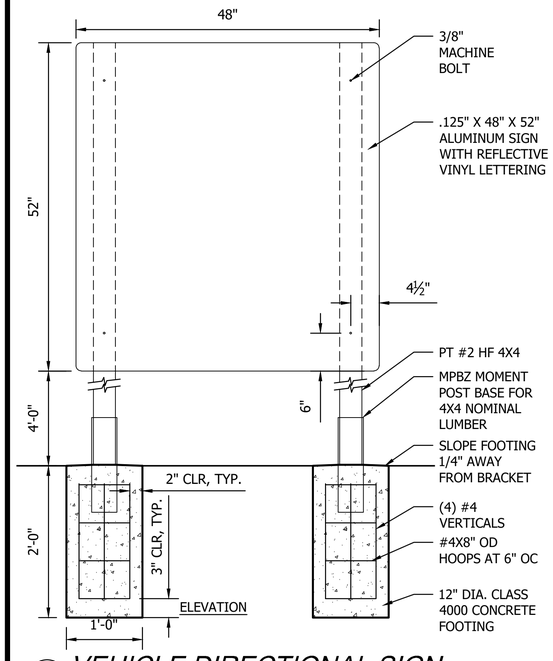
3 C9.0 *AUTHORIZED VEHICLES ONLY SIGN*
SCALE: 1" = 1'-0"



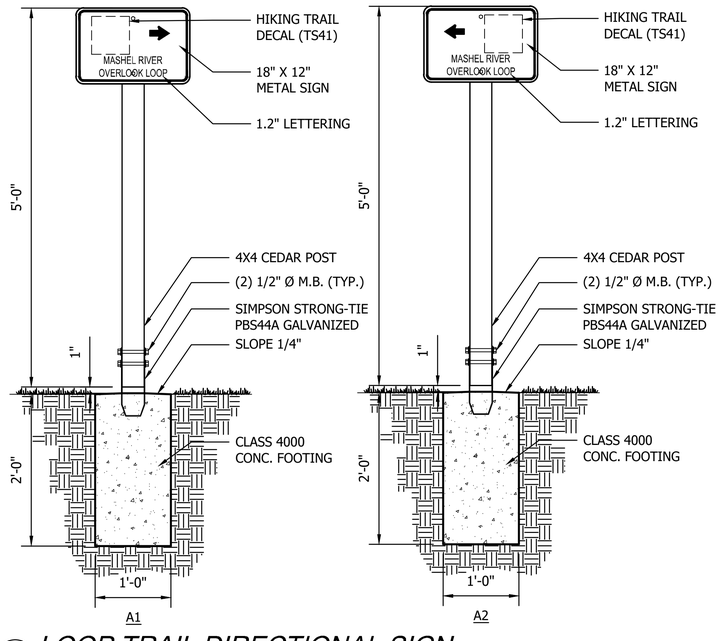
4 C9.0 *15 MINUTE PARKING SIGN*
SCALE: 1" = 1'-0"

5 C9.0 *NOT USED*
SCALE: NOT USED

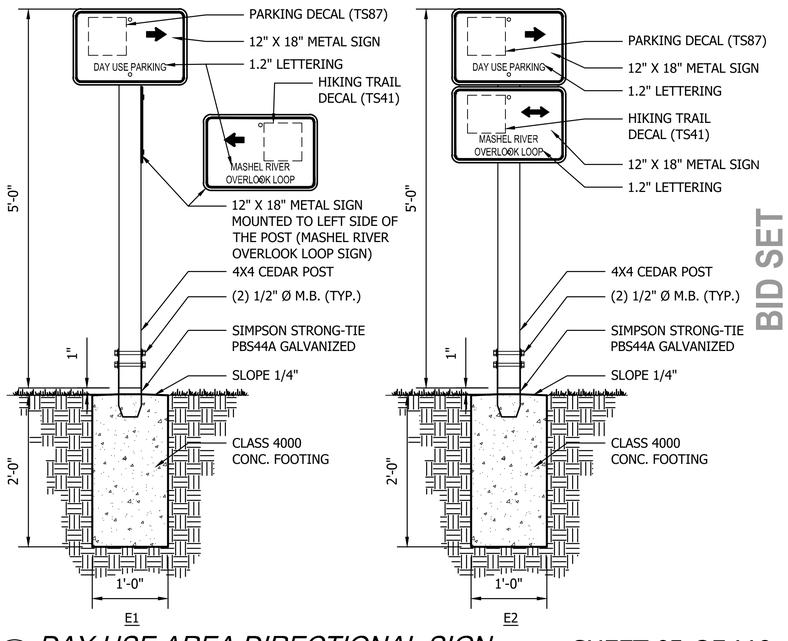
SIGN NOTES
ALL SIGN PANELS ARE TO BE OWNER FURNISHED CONTRACTOR INSTALLED



6 C9.0 *VEHICLE DIRECTIONAL SIGN*
SCALE: 1" = 1'-0"



7 C9.0 *LOOP TRAIL DIRECTIONAL SIGN*
SCALE: 1" = 1'-0"



8 C9.0 *DAY USE AREA DIRECTIONAL SIGN*
SCALE: 1" = 1'-0"

BID SET

PRIVATE IMPROVEMENTS
1021435 PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

1. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48-HOURS IN ADVANCE OF THE START OF CONSTRUCTION. CONTACT Dennis Patterson , THE AREA INSPECTOR, AT 253-798- 2539 .
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CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JH	6/20/25
DRAWN	JH	6/20/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012382 EXP. 05/18/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

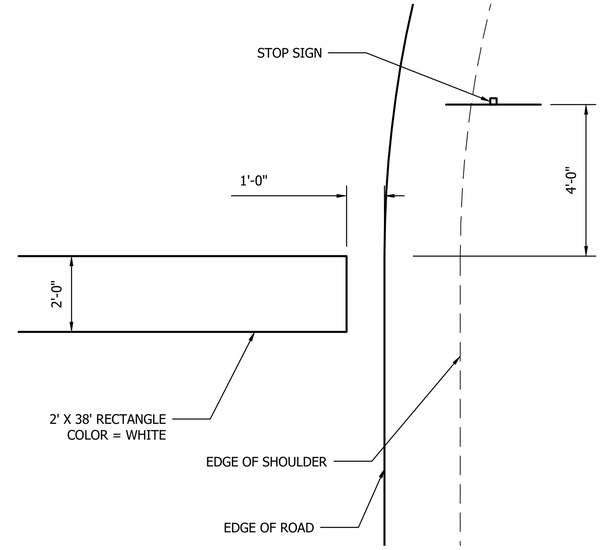
PHASE 3B WELCOME CENTER AND LOOP TRAIL

SIGNAGE & STRIPING DETAILS

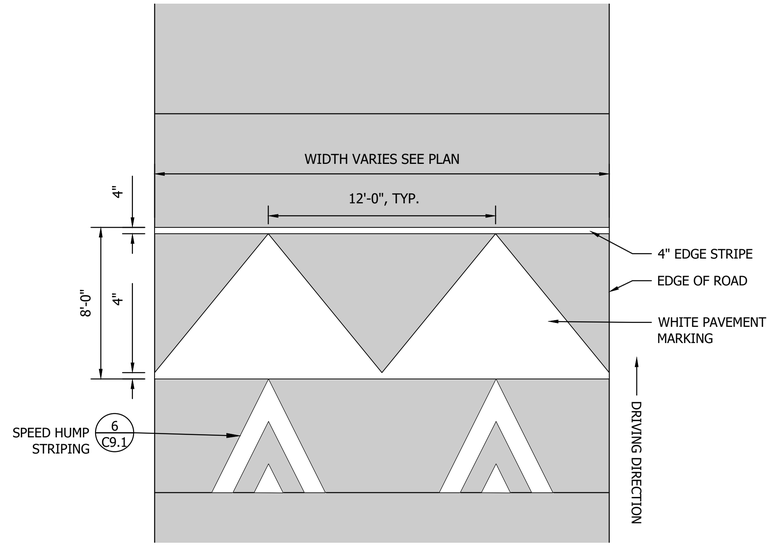
C9.0

SCALE
AS SHOWN

PARKS FILE#



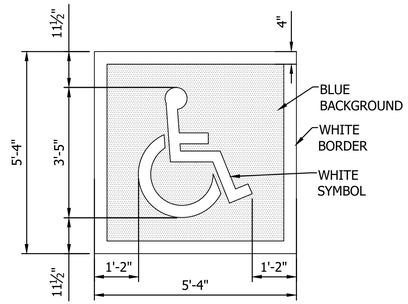
1 C9.1 **STOP BAR**
SCALE: 1/2" = 1'-0"



2 C9.1 **RAISED CROSSWALK STRIPING**
SCALE: 1" = 1'-0"

NOTES:

1. *60" X 60" BLUE BACKGROUND. BLUE SHALL BE IN ACCORDANCE WITH MUTCD/FEDERAL SPECIFICATIONS. (COLUMBIA PAINT 17-123-21 INSTANT DRY ACRYLIC TRAFFIC PAINT "HANDICAP BLUE" OR EQUIVALENT)*
2. *ACCESSIBLE PARKING SYMBOL PER WSDOT STANDARD PLAN M-24.60-04*



3 C9.1 **ACCESSIBLE PARKING SYMBOL**
SCALE: 1/2" = 1'-0"

4 C9.1 **ACCESSIBLE ISLE STRIPING**
SCALE: 1/2" = 1'-0"

5 C9.1 **WELCOME CENTER PARKING AREA ENLARGEMENT**
SCALE: 1" = 10'-0"

6 C9.1 **SPEED HUMP STRIPING**
SCALE: 1/4" = 10'-0"

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NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

SIGNAGE & STRIPING DETAILS

C9.1

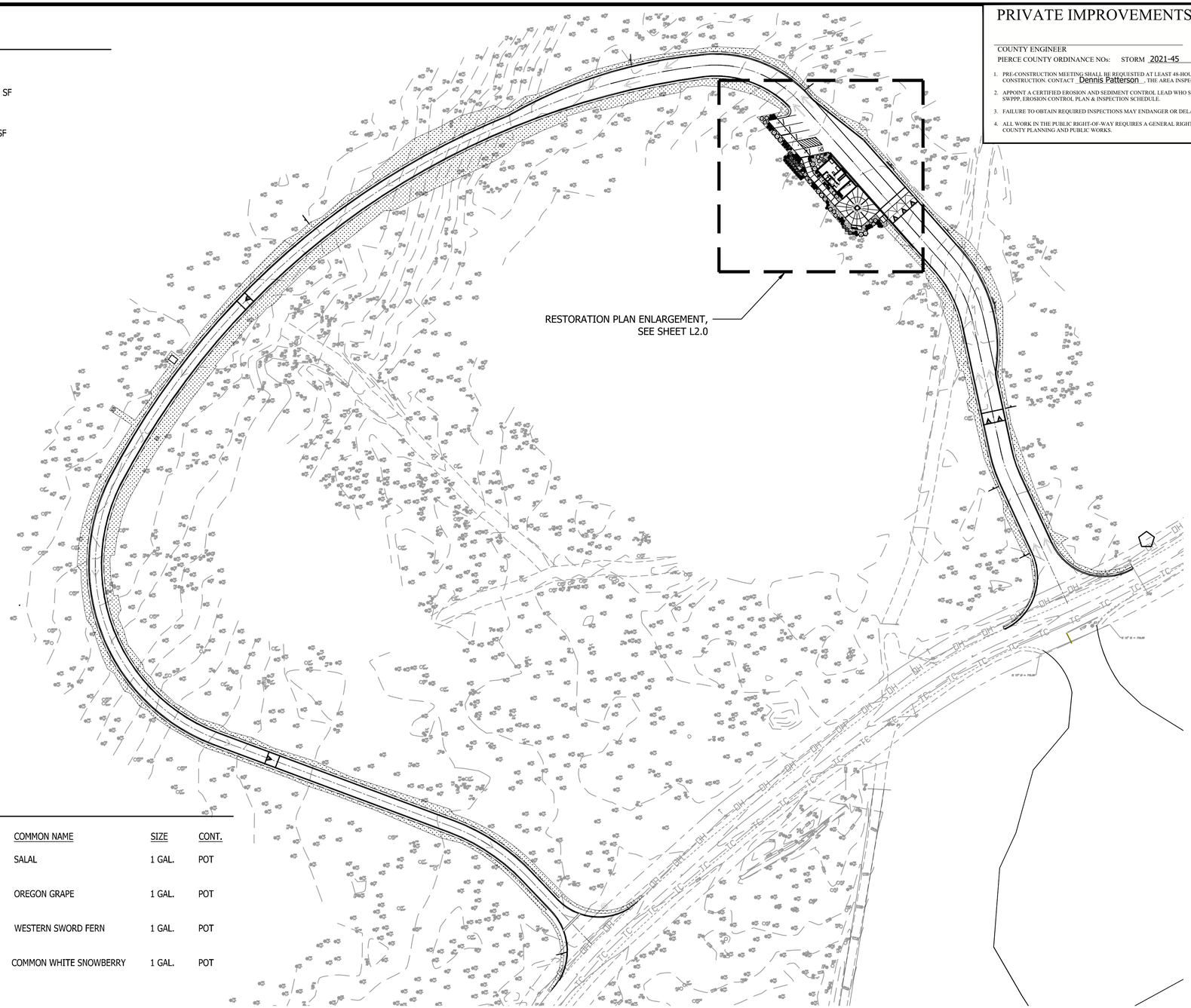
SCALE
AS SHOWN

PARKS FILE#

BID SET

TOPSOIL SCHEDULE:

SYMBOL	DESCRIPTION	QTY
	3" TOPSOIL TYPE A	32,410 SF
	3" TOPSOIL TYPE A W/ 3" BARK MULCH	1,960 SF



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PLANTING SCHEDULE:

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT.
	10	GAULTHERIA SHALLON	SALAL	1 GAL.	POT
	17	MAHONIA AQUIFOLIUM	OREGON GRAPE	1 GAL.	POT
	76	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	1 GAL.	POT
	10	SYMPHORICARPOS ALBUS	COMMON WHITE SNOWBERRY	1 GAL.	POT

SEEDMIX A 32,410 SF

BOTANICAL NAME / COMMON NAME	% BY WEIGHT	SEEDS PER LB. OF MIX	SEEDS PER LB	ACTUAL % BY SEED SIZE	PLS LBS. NEEDED	REQUESTED %
PSEUDOROENGERIA SPICATA / BLUEBUNCH WHEATGRASS	20.0%	31800	159,000	9.62%	6.54	12%
BROMUS CARINATUS / CALIFORNIA BROME	16.5%	16500	100,000	4.99%	5.39	8%
FESTUCA IDAHOENSIS / IDAHO FESCUE	15.0%	75000	500,000	22.70%	4.90	8%
ELYMUS ELYMODIES / SLENDER WHEATGRASS	15.0%	23850	159,000	7.22%	4.90	8%
ELYMUS GLAUCUS / BLUE WILDRYE	15.0%	15000	100,000	4.54%	4.90	4%
GLYCERIA OCCIDENTALLIS / NORTHWESTERN MANNAGRASS	10.0%	20100	201,000	6.08%	3.27	8%
DESCHAMPSIA CESPITOSA / TUFTED HAIRGRASS	3.0%	75000	2,500,000	22.70%	.98	25%
LOTUS UNIFOLIOLATUS / AMERICAN BIRD'S-FOOT TREFOIL	2.5%	28750	1,150,000	8.70%	.82	8%
ELEOCHARIS PALUSTRIS / COMMON SPIKERUSH	1.0%	6200	620,000	1.88%	.33	5%
LUPINUS ALBICAULIS / SICKLEKEL LUPINE	1.0%	210	21,000	0.06%	.33	4%
AGROSTIS EXARATA / SPIKE BENTGRASS	1.0%	38000	3,800,000	11.50%	.33	10%

BID SET

811 Call 811 two business days before you dig

SHEET 67 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

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REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

RESTORATION PLAN - WELCOME CENTER LOOP

L1.0

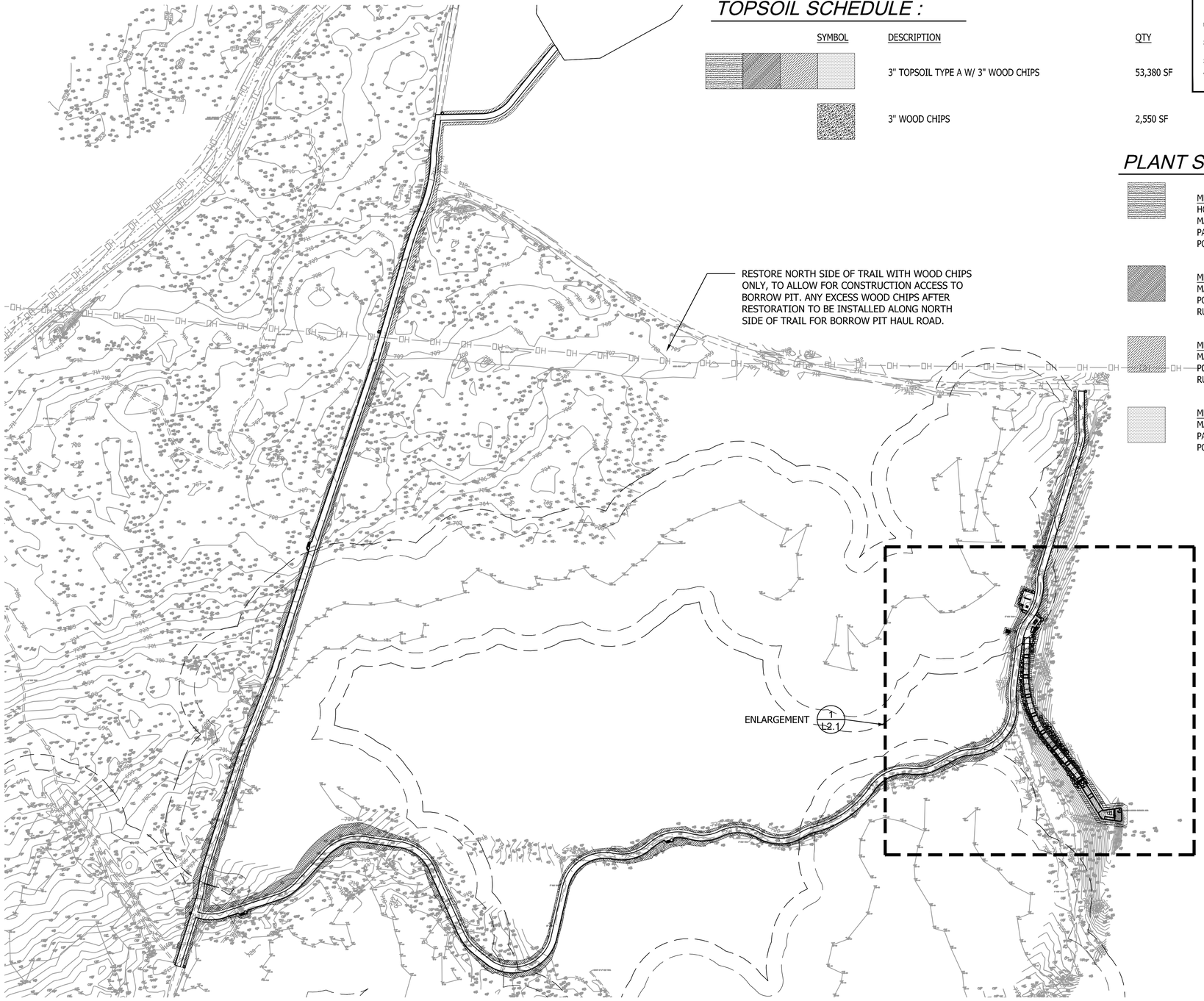
SCALE

SCALE: 1"=60'

0 30' 60' 90' 120'

PARKS FILE#

O:\2018\180620A New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\L1.0 Restoration plan - WC.dwg
May-05-25 11:03am



TOPSOIL SCHEDULE :

SYMBOL	DESCRIPTION	QTY
	3" TOPSOIL TYPE A W/ 3" WOOD CHIPS	53,380 SF
	3" WOOD CHIPS	2,550 SF

PLANT SCHEDULE :

	MRO - OVERLOOK MIX HOLODISCUS DISCOLOR / OCEANSPRAY MAHONIA AQUIFOLIUM / OREGON GRAPE PAXISTIMA MYRSINITES / OREGON BOXWOOD POLYSTICHUM MUNITUM / WESTERN SWORD FERN	5,640 SF
	MRO - WET MIX MAHONIA AQUIFOLIUM / OREGON GRAPE POLYSTICHUM MUNITUM / WESTERN SWORD FERN RUBUS SPECTABILIS / SALMONBERRY	35,410 SF
	MRO - DRY MIX MAHONIA AQUIFOLIUM / OREGON GRAPE POLYSTICHUM MUNITUM / WESTERN SWORD FERN RUBUS PARVIFLORUS / THIMBLEBERRY	9,780 SF
	MRO - UNDER STRUCTURE MIX MAHONIA NERVOSA / OREGON GRAPE PAXISTIMA MYRSINITES / OREGON BOXWOOD POLYSTICHUM MUNITUM / WESTERN SWORD FERN	2,630 SF

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

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STATE OF WASHINGTON · JONAH HAYES · LICENSED LANDSCAPE ARCHITECT · No. 24012382 EXP. 05/18/2026

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

BID SET

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

RESTORATION PLAN - MASHEL RIVER OVERLOOK TRAIL
L1.1

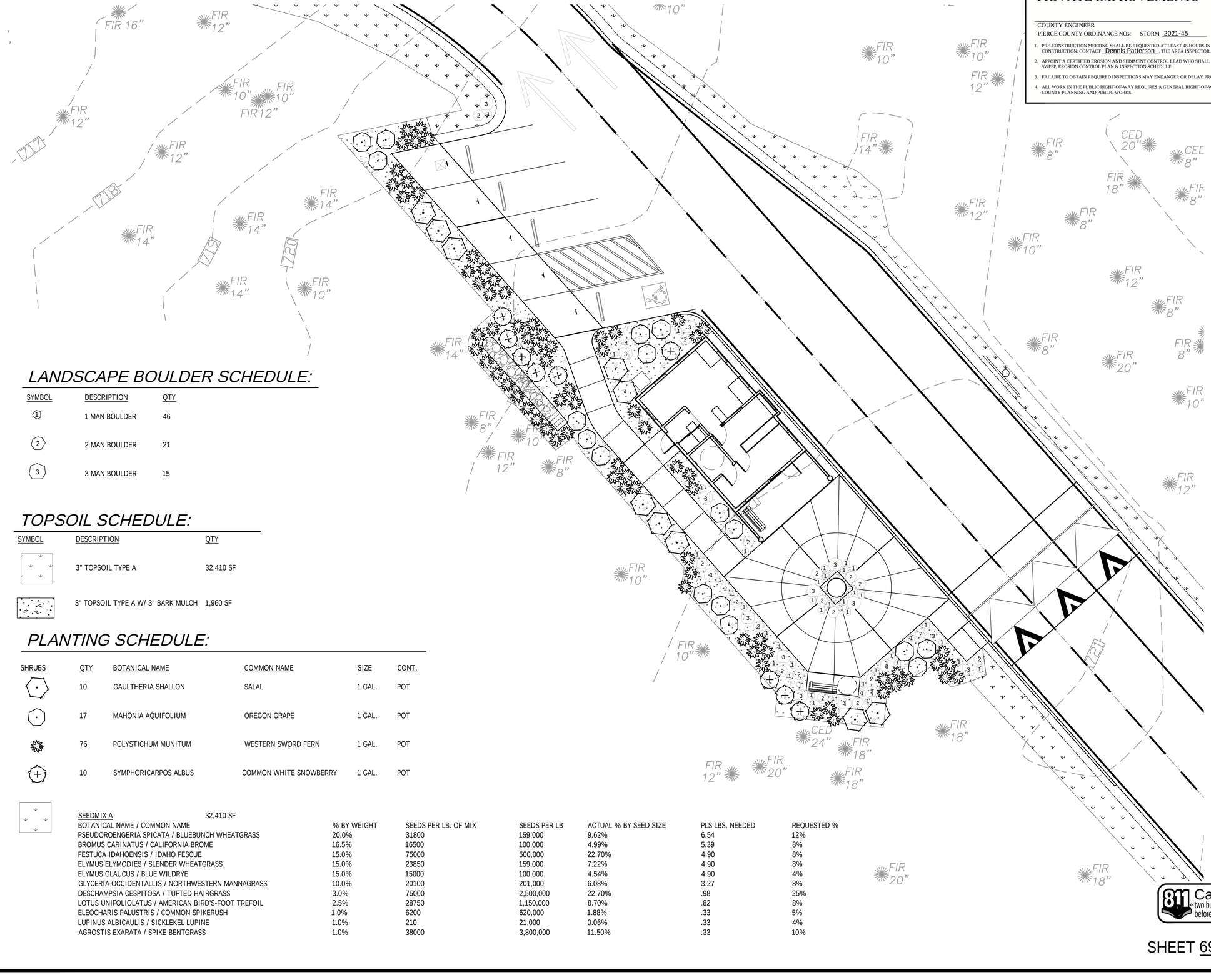
811 Call 811 two business days before you dig

SCALE: 1"=100'
0 50' 100' 150' 200'

SHEET 68 OF 119

PARKS FILE#

O:\2018\18062A New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\L1.0-1.1 Restoration plan - MRO.dwg
May-05-25 11:06am



LANDSCAPE BOULDER SCHEDULE:

SYMBOL	DESCRIPTION	QTY
1	1 MAN BOULDER	46
2	2 MAN BOULDER	21
3	3 MAN BOULDER	15

TOPSOIL SCHEDULE:

SYMBOL	DESCRIPTION	QTY
	3" TOPSOIL TYPE A	32,410 SF
	3" TOPSOIL TYPE A W/ 3" BARK MULCH	1,960 SF

PLANTING SCHEDULE:

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT.
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	10	SYMPHORICARPOS ALBUS	COMMON WHITE SNOWBERRY	1 GAL.	POT

SEEDMIX A 32,410 SF

BOTANICAL NAME / COMMON NAME	% BY WEIGHT	SEEDS PER LB. OF MIX	SEEDS PER LB	ACTUAL % BY SEED SIZE	PLS LBS. NEEDED	REQUESTED %
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ELEOCHARIS PALUSTRIS / COMMON SPIKERUSH	1.0%	6200	620,000	1.88%	.33	5%
LUPINUS ALBICAULIS / SICKLEKEL LUPINE	1.0%	210	21,000	0.06%	.33	4%
AGROSTIS EXARATA / SPIKE BENTGRASS	1.0%	38000	3,800,000	11.50%	.33	10%

BID SET

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SHEET 69 OF 119

PRIVATE IMPROVEMENTS

1021435 PERMIT #

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WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

RESTORATION PLAN ENLARGMENT - WELCOME CENTER L2.0

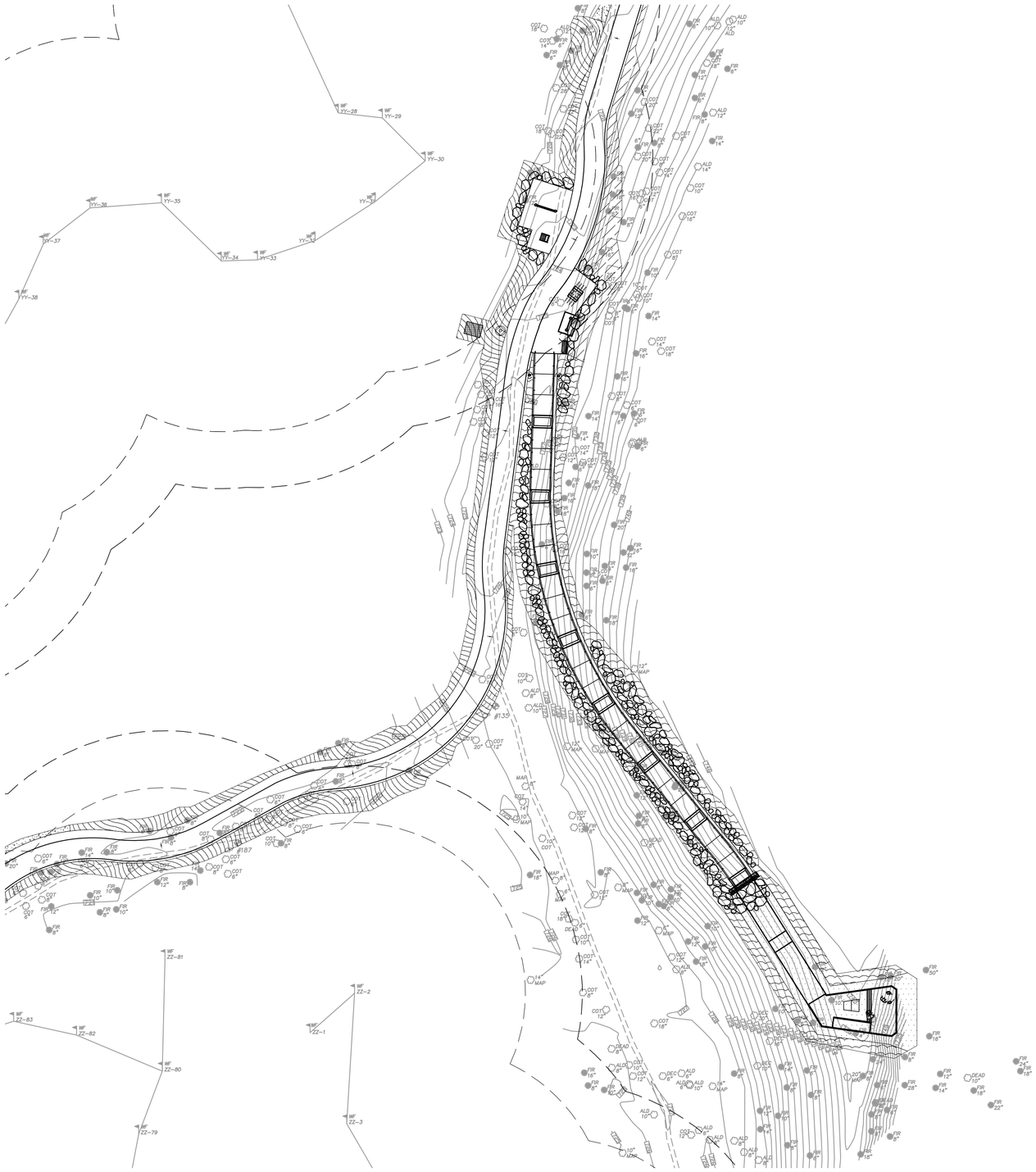
SCALE

SCALE: 1"=10'

0 5' 10' 15' 20'

PARKS FILE#

O:\2018\18062A New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\L1.0 Restoration plan - WC.dwg
Jun-03-25 11:38am



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TOPSOIL SCHEDULE :

SYMBOL	DESCRIPTION	QTY
	3" TOPSOIL TYPE A W/ 3" WOOD CHIPS	53,380 SF
	3" WOOD CHIPS	2,550 SF

PLANT SCHEDULE :

	MRO - OVERLOOK MIX HOLODISCUS DISCOLOR / OCEANSPRAY MAHONIA AQUIFOLIUM / OREGON GRAPE PAXISTIMA MYRSINITES / OREGON BOXWOOD POLYSTICHUM MUNITUM / WESTERN SWORD FERN	5,640 SF
	MRO - WET MIX MAHONIA AQUIFOLIUM / OREGON GRAPE POLYSTICHUM MUNITUM / WESTERN SWORD FERN RUBUS SPECTABILIS / SALMONBERRY	35,410 SF
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NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL RESTORATION PLAN ENLARGMENT - MASHEL RIVER OVERLOOK TRAIL L2.1

SCALE

SCALE: 1"=30'

0 15' 30' 45' 60'

PARKS FILE#

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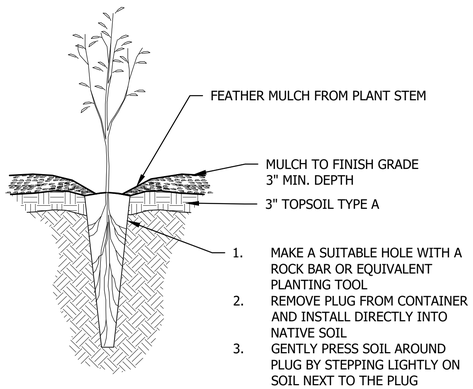
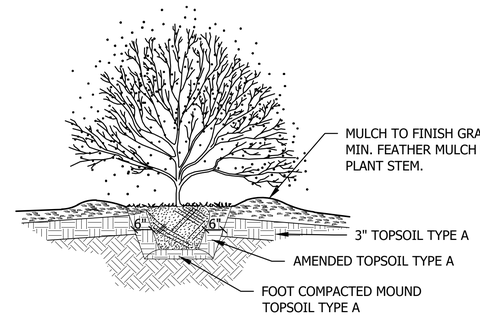
May-05-25 11:12am



1 L3.0 *PLUG PLANTING AND MULCHING*
SCALE: NOT TO SCALE



2 L3.0 *SHRUB PLANTING AND MULCHING*
SCALE: NOT TO SCALE

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3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JH	6/20/25
DRAWN	JH	6/20/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON · JONAH HAYES · No. 24012362 EXP. 05/18/2026 · LICENSED LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

PLANTING DETAILS

L3.0

BID SET

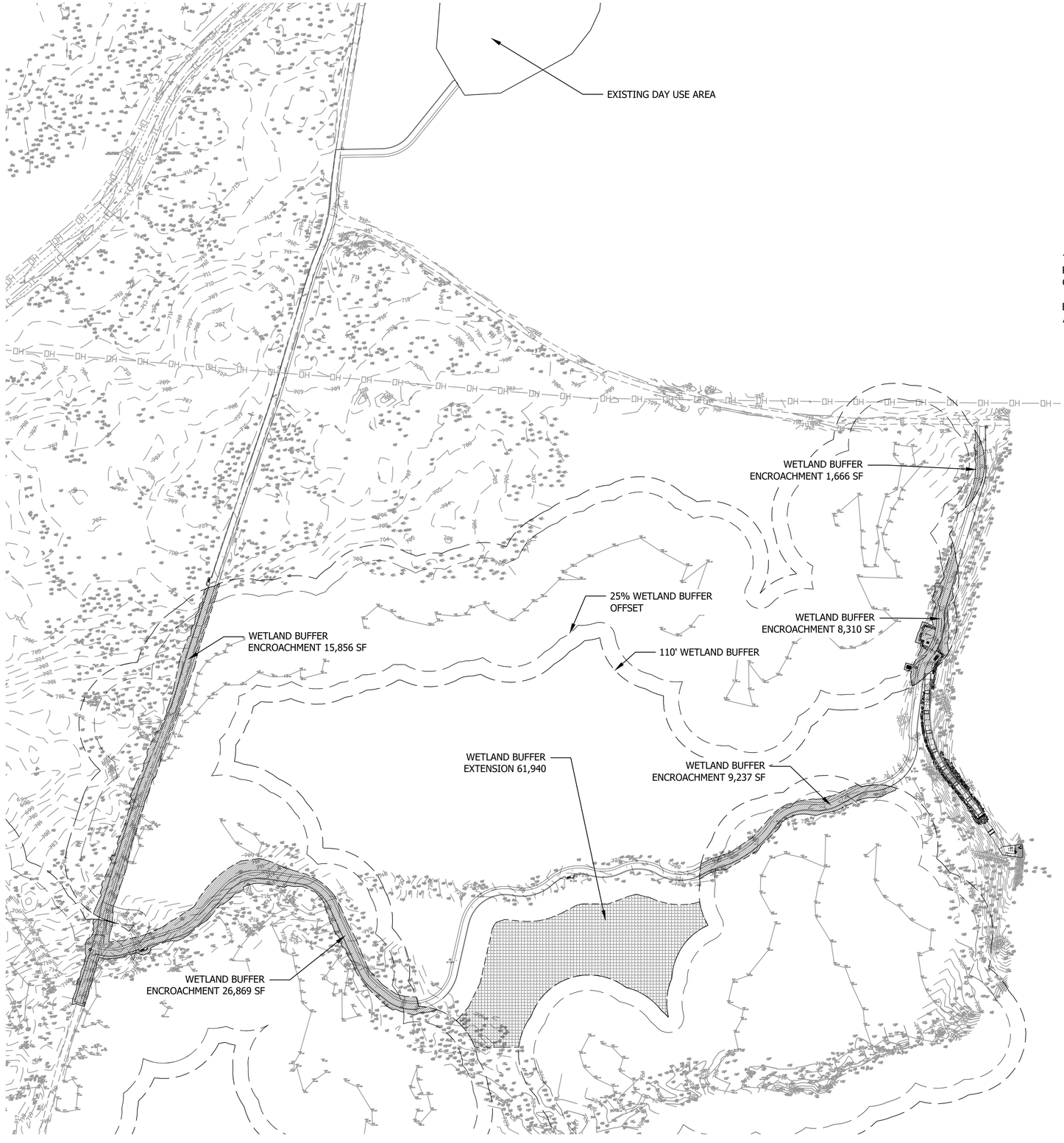
811 Call 811 two business days before you dig

SCALE: 1"=10'
0 5' 10' 15' 20'

PARKS FILE#

SHEET 71 OF 119

O:\2018\180624 New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\L1.0 Restoration plan - WC.dwg
May-05-25 11:12am



PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

1. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48-HOURS IN ADVANCE OF THE START OF CONSTRUCTION. CONTACT Dennis Patterson , THE AREA INSPECTOR, AT 253-798- 2539 .
2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.
3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.

WETLAND SCHEDULE

WETLAND ENCROACHMENT AREA	61,940 SF
WETLAND EXPANSION AREA	61,940 SF

NOTES:

PER PCC 18E.30.060.B.2 WHEN USING BUFFER AVERAGING, BUFFER CANNOT BE REDUCED BY MORE THAN 25% AT ANY GIVEN POINT.

BUFFER WIDTH AVERAGING MAY BE ALLOWED ONLY WHERE THE APPLICANT DEMONSTRATES ALL OF THE FOLLOWING:

a. THE DECREASE IN BUFFER WIDTH IS MINIMIZED BY LIMITING THE DEGREE OR MAGNITUDE OF THE REGULATED ACTIVITY.

b. A HABITAT ASSESSMENT HAS BEEN SUBMITTED WHICH DEMONSTRATES THAT NO DOCUMENTED HABITAT FOR ENDANGERED, THREATENED, OR SENSITIVE FISH, OR ANIMAL SPECIES IS PRESENT; OR

c. FOR WETLANDS AND/OR REQUIRED BUFFERS ASSOCIATED WITH DOCUMENTED HABITAT FOR ENDANGERED, THREATENED, OR SENSITIVE FISH, OR WILDLIFE SPECIES, A HABITAT ASSESSMENT REPORT HAS BEEN SUBMITTED THAT DEMONSTRATES THAT THE BUFFER MODIFICATION WILL NOT RESULT IN AN ADVERSE IMPACT TO THE SPECIES OF STUDY.

d. WIDTH AVERAGING WILL NOT ADVERSELY IMPACT THE WETLAND.

e. THE TOTAL BUFFER AREA AFTER AVERAGING IS NO LESS THAN THE BUFFER AREA PRIOR TO AVERAGING. (SEE FIGURE 18E.30-4.)

f. THE MINIMUM BUFFER WIDTH WILL NOT BE LESS THAN 75 PERCENT OF THE WIDTHS ESTABLISHED AFTER THE CATEGORIZATION IS DONE AND ANY BUFFER ADJUSTMENTS APPLIED.

g. THE AVERAGING IS ACCOMPLISHED WITHIN THE PROJECT BOUNDARIES OR THROUGH AN OFF-SITE CONSERVATION EASEMENT OR TRACT (OR OTHER ACCEPTABLE PROTECTIVE MECHANISM) APPROVED BY THE DEPARTMENT.

BID SET

Call 811 two business days before you dig

SHEET 72 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JH	6/20/25
DRAWN	JH	6/20/25
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STATE OF WASHINGTON · JONAH HAYES · No. 24012382 EXP. 05/18/2026 · LICENSED LANDSCAPE ARCHITECT ·

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

RESTORATION PLAN - WETLAND MITIGATION

L4.0

SCALE

SCALE: 1"=100'

0 50' 100' 150' 200'

PARKS FILE#

G:\2018\180624 New Full Service Park Design Services\Drawings\Sheets\Phase 3\Bid Set 2 Welcome Center & MRO\L4.0 Wetland Buffer Averaging.dwg
May-05-25 11:14am

GENERAL CODE INFORMATION

Project Name: **Nisqually State Park Welcome Center**

Address: 43371 Mashel Prairie Rd, Eatonville, WA 98328

Jurisdiction: Pierce County
Department of Planning and Land Services

Codes Referenced:

International Building Code (IBC):	2018 Edition
International Mechanical Code (IMC):	2018 Edition
Uniform Plumbing Code (UPC):	2018 Edition
International Fire Code (UFC):	2018 Edition
National Electric Code (NFPA 70)	2018 Edition; RCW 19.28
Accessible & Usable Buildings & Facilities (ICC/ANSI A117.1)	2017 Edition
Washington State Building Code (IBC):	WAC 51-50
Washington State Mechanical Code (IMC):	WAC 51-52
Washington State Fire Code (IFC):	WAC 51-54A
Washington State Energy Code (WSEC):	WAC 51-11C
Washington State Department of Health	WAC 246-322

All Amendments, Supplements, Modifications, Exclusions, Exceptions, And Additions To The Codes Listed Above As Adopted By The Washington State Building Code Council RCW 19.27 And WAC Title 51.

Local Amendments To The Above Listed Codes And Local Ordinances As Adopted By The Authority Having Jurisdiction: Pierce County.

Pierce County Design Requirements - See structural notes.

Deferred Submittals:
None

Fire Sprinklers:

Required / Provided

Occupancies (Chapters 3 and 4):
B (Business) Occupancy

Occupancy Separation Requirements (Chapter 3 and Section 508):
None

Special Occupancy Requirements (Chapter 4):
N/A

Types Of Construction (Chapters 5 and 6):
V-B

Incidental Uses (Chapter 5 and Section 509):
N/A

Fire Walls / Separate Code Buildings / Area Separations For Allowable Area (Chapters 5 and 7):
N/A

Number of Stories Allowed (Chapter 5 and Table 504.4):
For B Occupancy in Const'n Type V-B (NS) = 2 ; Actual = 1

Building Height (Chapter 5, Table 504.3):
For B Occupancy in Const'n Type V-B (NS) = 40 feet; Actual = 24'-5"

Actual Area: **588 SF** (IBC Floor Area - Not including exterior wall thickness)
640 SF (Including Exterior Wall Thickness)

Allowable Area: Building 1 Single Occupancy Allowable Area:
For B Occupancy in Construction Type V-B (NS): 9,000 SF

Actual Area = 640 SF, therefore OK.

Fire Resistive Requirements (Chapters 6 and 7, Table 601):

Rating (hours):

Building Element	Bldg 1
Structural Frame (Table 601):	0
Floors & Floor Ceilings (Table 601):	X
Roofs & Roof Ceilings (Table 601):	X
Exterior Bearing Walls (Table 601):	0
Interior Bearing Walls (Table 601):	N/A
Exterior Non-Bearing Walls (Table 602):	0
Interior Non-Bearing Walls (Table 601):	0
Shafts (Section 713):	N/A
Exit Access Stairways and Ramps (Section 1019):	N/A
Corridors (Section 1020):	N/A
Fire Walls (Section 706):	N/A
Fire Barriers (Section 707):	N/A
Fire Partitions (Section 708):	N/A
Smoke Barriers (Section 709):	N/A
Horizontal Assemblies (Section 711):	N/A
Vertical Openings (Section 712): Sealed with an approved material	
Shaft Enclosures (Section 713):	N/A

Exit Requirements:

Code Occupant Load Calculation For Exiting Design (1004):
Maximum Floor Area Allowance Per Occupant: 150 (B Business Area Function @ 1/150)
Total Design Occupant Load: 5 (Maximum Occupant Load)

Maximum Exit Travel Distance (46'

Exit Passageways (Section 1023): None

Horizontal Exits (Section 1025): None

CODE FLOOR PLAN LEGEND

123 LF TOTAL EXIT T.D. — DENOTES MAXIMUM EXIT TRAVEL DISTANCE

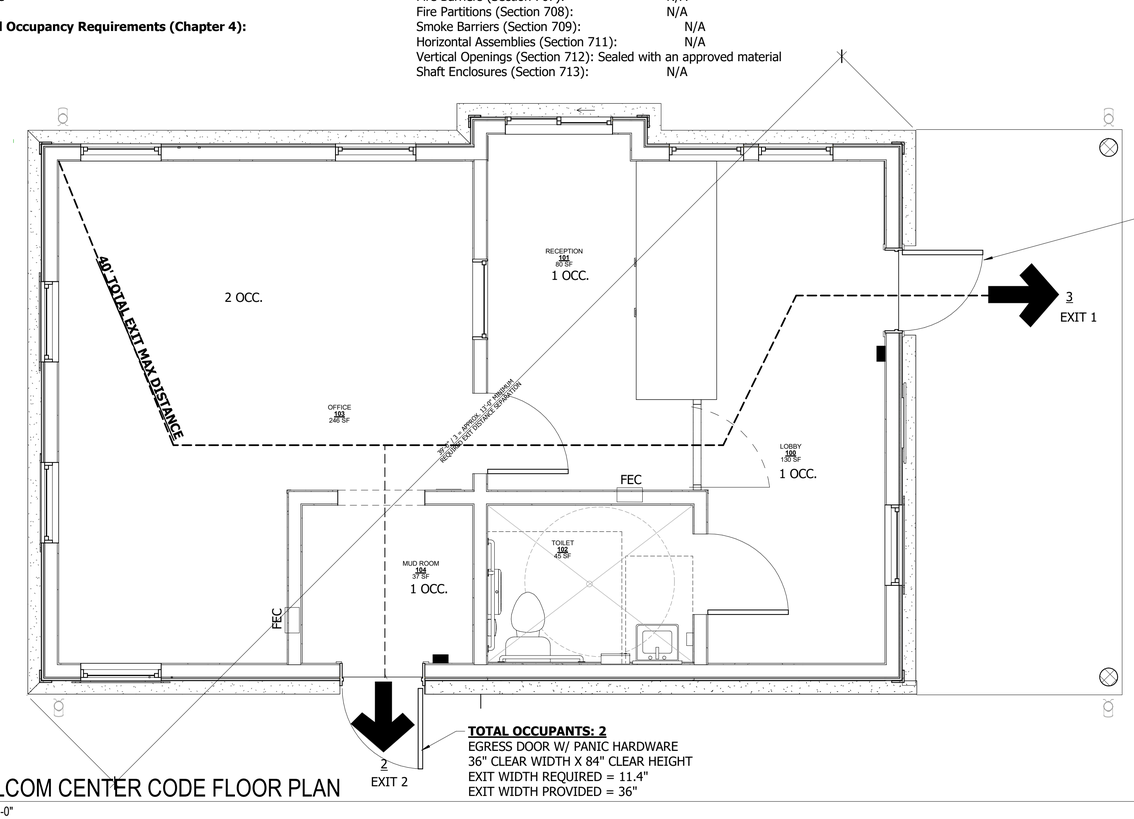
EXIT

FEC — FEC: RECESSED FIRE EXTINGUISHER CABINET
FE: WALL MOUNTED FIRE EXTINGUISHER
CLASS A TYPE FE UNLESS NOTED OTHERWISE

XXX
XXX
XXX — ROOM NUMBER
OCCUPANT AREA
OCCUPANT LOAD

CODE REQUIRED SIGNAGE, AS NOTED ON PLAN

1-HR FIRE WALL
SEE SHEET A-101 AND A-501 FOR WALL TYPES AND UL DESIGN



TOTAL OCCUPANTS: 3
EGRESS DOOR W/ PANIC HARDWARE
36" CLEAR WIDTH X 84" CLEAR HEIGHT
EXIT WIDTH REQUIRED = 11.4"
EXIT WIDTH PROVIDED = 36"

TOTAL OCCUPANTS: 2
EGRESS DOOR W/ PANIC HARDWARE
36" CLEAR WIDTH X 84" CLEAR HEIGHT
EXIT WIDTH REQUIRED = 11.4"
EXIT WIDTH PROVIDED = 36"

OCCUPANT LOAD

EXIT #	OCCUPANTS
EXIT 01	3 OCC
EXIT 02	2 OCC
TOTAL:	5 OCCUPANTS

1 WELCOM CENTER CODE FLOOR PLAN
3/8" = 1'-0"

BID SET

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SHEET 73 OF 119

CAD NO.

REVISIONS	DATE	APP.	INT.
PERMIT COMMENTS - 1	02/21/2025		
	10-04-2021		

ACTION	BY	DATE
DESIGNED		01/17/2025
DRAWN		01/17/2025
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10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER-GENERAL CODE INFORMATION
GI-201

SCALE
AS SHOWN

PARKS FILE#

AIR BARRIER FLOOR PLAN NOTES

1. SEAL ALL HOLES AND GAPS IN AIR BARRIER SYSTEM TO PROVIDE AN AIRTIGHT INSTALLATION.

2. THE CONCRETE SLAB, SLAB ON GRADE IS ASSUMED TO PROVIDE ADEQUATE AIR BARRIER PERFORMANCE. (SEAL ALL PENETRATIONS)

3. REFER TO DOOR, WINDOW AND LOUVER DETAILS FOR ADDITIONAL AIR BARRIER SYSTEM AND WEATHER RESISTANT BARRIER DETAILS.

4. ENSURE THAT ALL AIR BARRIER SYSTEMS ARE SEALED TIGHT TO EACH OTHER AT ALL TRANSITIONS, FENESTRATION OPENINGS AND JOINTS.

INSULATION VALUES:
THE FOLLOWING MINIMUM INSULATION VALUES SHALL BE:
1. EXTERIOR WALLS: R-21 @ CMU WALL

2. NEW ROOF: R-38 @ CONT. RIGID INSULATION ABOVE DECK
3. SLAB PERIMETER: R-10 @ HEATED SLABS & FOR 24 INCHES BEYOND

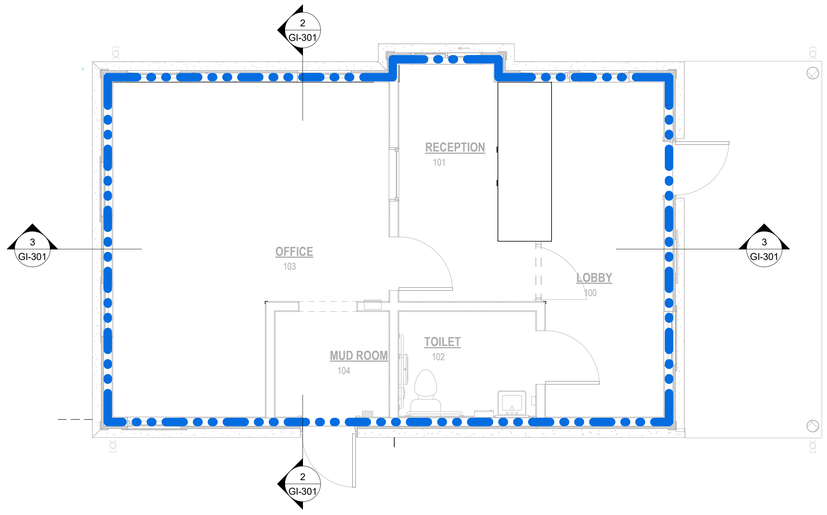
AIR BARRIER FLOOR PLAN LEGEND

EXTENTS OF CONTINUOUS AIR BARRIER SYSTEM

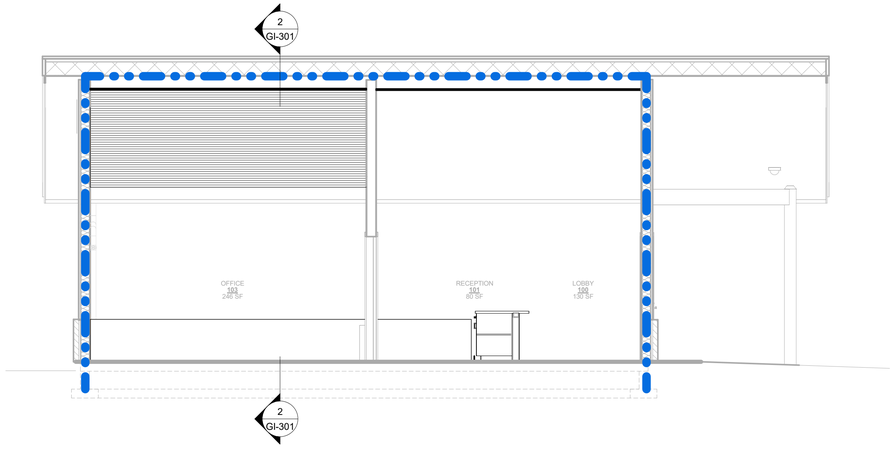
WSEC- AIR BARRIER CODE

C402.5.1.1 AIR BARRIER CONSTRUCTION. THE CONTINUOUS AIR BARRIER SHALL BE CONSTRUCTED TO COMPLY WITH THE FOLLOWING:

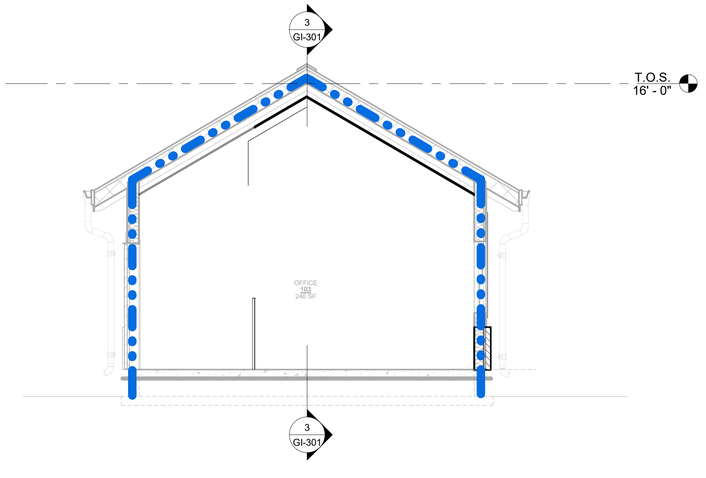
1. THE AIR BARRIER SHALL BE CONTINUOUS FOR ALL ASSEMBLIES THAT ARE THE
THERMAL ENVELOPE OF THE BUILDING AND ACROSS THE JOINTS AND ASSEMBLIES.
2. AIR BARRIER JOINTS AND SEAMS SHALL BE SEALED, INCLUDING SEALING
TRANSITIONS IN PLACES AND CHANGES IN MATERIALS. THE JOINTS AND SEALS
SHALL BE SECURELY INSTALLED IN OR ON THE JOINT FOR ITS ENTIRE LENGTH
SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR ITS ABILITY TO RESIST
POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT AND MECHANICAL VENTILATION.
3. PENETRATIONS OF THE AIR BARRIER SHALL BE CAULKED, GASKETED OR OTHERWISE SEALED IN A MANNER COMPATIBLE WITH THE CONSTRUCTION MATERIALS AND LOCATION. JOINTS AND SEALS ASSOCIATED WITH PENETRATIONS SHALL BE SEALED IN THE SAME MANNER OR TAPED OR COVERED WITH MOISTURE VAPOR-PERMEABLE WRAPPING MATERIAL. SEALING MATERIALS SHALL BE APPROPRIATE TO THE CONSTRUCTION MATERIALS BEING SEALED AND SHALL BE SECURELY INSTALLED AROUND THE PENETRATIONS SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR THE PENETRATIONS' ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT, AND MECHANICAL VENTILATION. SEALING OF CONCEALED FIRE SPRINKLERS, WHERE REQUIRED, SHALL BE IN A MANNER THAT IS
RECOMMENDED BY THE MANUFACTURER. CAULKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO FILL VOIDS BETWEEN FIRE SPRINKLER COVER PLATES AND WALLS OR CEILINGS.
4. RECESSED LIGHTING FIXTURES SHALL COMPLY WITH SECTION C402.5.8. WHERE SIMILAR OBJECTS ARE INSTALLED WHICH PENETRATE THE AIR BARRIER, PROVISIONS SHALL BE MADE TO MAINTAIN THE INTEGRITY OF THE AIR BARRIER.
5. CONSTRUCTION DOCUMENTS SHALL CONTAIN A DIAGRAM SHOWING THE BUILDING'S PRESSURE BOUNDARY IN PLAN(S) AND SECTION(S) AND A CALCULATION OF THE AREA OF THE PRESSURE BOUNDARY TO BE CONSIDERED IN THE TEST.



1 WELCOME CENTER - REFERENCED FLOOR PLANS - AIR BARRIER
1/4" = 1'-0"



3 WELCOME CENTER - BUILDING SECTION 2 - AIR BARRIER
1/4" = 1'-0"



2 WELCOME CENTER - BUILDING SECTION 1 - AIR BARRIER
1/4" = 1'-0"

CAD NO.		
10-04-2021		DATE
		APP.
		INT.
		REVISIONS
		NO.

ACTION	BY	DATE
DESIGNED		01/17/2025
DRAWN		01/17/2025
CHECKED (FIELD)		
CHECKED (HDQTS.)		

10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER-AIR BARRIER

GI-301

SCALE
AS SHOWN

PARKS FILE#

BID SET

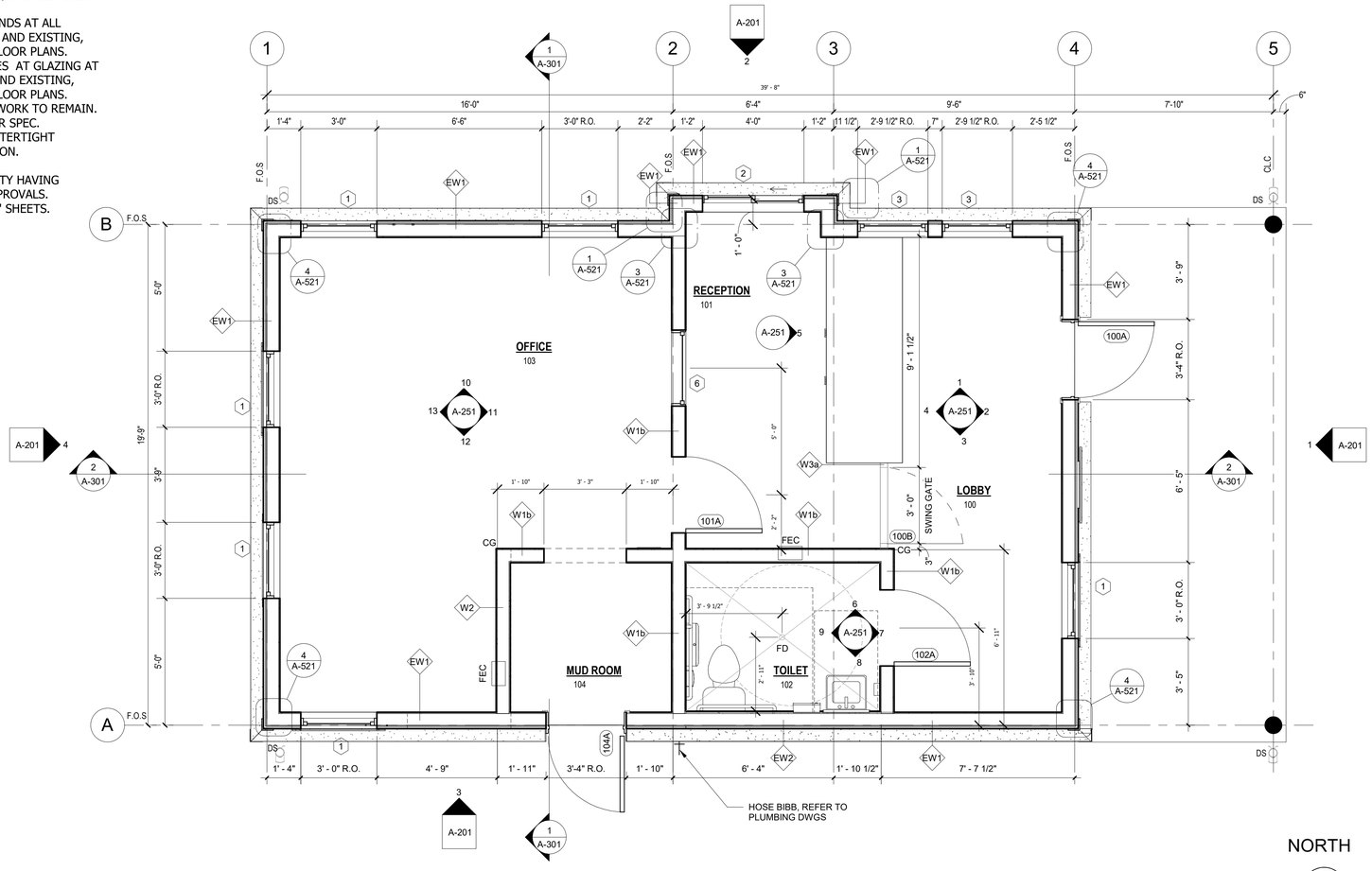
811 Call 811 two business days before you dig

GENERAL FLOOR PLAN NOTES

1. REFER TO SLAB PLANS FOR RECESS CONCRETE LOCATIONS TO PROVIDE FLOOR SLOPES.
2. FOR WALL TYPES, FLOOR AND ROOF TYPES. REFER TO A-500 SERIES. UNLESS OTHERWISE NOTED. FINISHES PER SCHEDULE.
3. REFER TO TYPICAL MOUNTING HEIGHTS FOR NOTES, DIMENSION AND EQUIPMENT. CALL OUTS TYPICAL FOR ALL RESTROOMS, UNLESS NOTED OTHERWISE.
4. FOR DOOR & WINDOW TYPES AND FINISH SCHEDULE, REFER TO A-600 SERIES.
5. FOR CABINET DETAILS, EQUIPMENT LAYOUT, MOUNTING HEIGHTS, REFER TO DETAIL SHEETS.
6. FLOOR DRAINS - SET FLOOR DRAINS (FD) 1" BELOW FF @ ALL AREAS.
7. FOR PLUMBING FIXTURES REFER TO MECHANICAL DRAWINGS.
8. FIELD CONFIRM ALL DIMENSIONS AND REPORT DISCREPANCIES IF ANY, TO ARCHITECT PRIOR TO CONSTRUCTION.
9. REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DIMENSION REQUIREMENTS.
10. DIMENSIONS SHOWN ARE TO FACE OF WALL STUDS, CENTERLINE OF OPENING (U.N.O.) AND ROUGH OPENING.
11. ALL DOORS NOT DIMENSIONED ARE LOCATED AT 4 1/2" TO AN INTERSECTING WALL FACE OF FINISH OR CENTERED ON WALL (REFER TO PLAN).
12. ALL FINISH FIXTURES SHALL MEET ADA ACCESSIBILITY REQUIREMENTS PER CURRENT IBC/UPC AND ANSI. 117.
13. PROVIDE HORIZONAL LOUVER BLINDS AT ALL WINDOWS & STOREFRONTS, NEW AND EXISTING, UNLESS NOTED OTHERWISE ON FLOOR PLANS.
14. PROVIDE ROLLER WINDOW SHADES AT GLAZING AT ALL DOORS & SIDELIGHTS, NEW AND EXISTING, UNLESS NOTED OTHERWISE ON FLOOR PLANS.
15. MINIMIZE DAMAGE TO EXISTING WORK TO REMAIN. RESTORE DAMAGED SURFACES PER SPEC.
16. MAINTAIN EXISTING WORK IN WATERTIGHT CONDITION DURING CONSTRUCTION.
17. OBTAIN ALL PERMITS & LICENSES.
18. COORDINATE WITH THE AUTHORITY HAVING JURISDICTION FOR REQUIRED APPROVALS.
19. FOR CODE ANALYSIS SEE "G1-201" SHEETS.

LEGEND - FLOOR PLAN

- WOOD STUD WALL
- NEW CONCRETE PAVING (SEE CIVIL DRAWINGS)
- PLANTING AREA (SEE LANDSCAPE DRAWING)
- NEW DOOR, REFER TO DOOR SCHEDULE
- NEW WINDOW, REFER TO TYPES
- HEXAGON SYMBOL INDICATES TYPE FOR WINDOWS, AND SLIDING SERVICE WINDOWS. SEE A7 SERIES SHEETS.



1 FLOOR PLAN
3/8" = 1'-0"

NORTH

811 Call 811 two business days before you dig

SHEET 75 OF 119

CAD NO.

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	10-04-2021				

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WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER - FLOOR PLAN

A-101

SCALE
AS SHOWN

PARKS FILE#

BID SET

REFLECTED CEILING PLAN LEGEND

- EXTERIOR WALL MOUNTED LIGHT - REFER TO ELECT.
- LINEAR PENDANT LIGHTING - CEILING MOUNTED- REFER TO ELECT. & REFER TO RCP FOR LENGTH
- RECESSED CAN LIGHT - REFER TO ELECT.
- CEILING MOUNTED ILLUMINATED EXIT SIGN
- CEILING MOUNTED FAN - REFER TO ELECTRICAL DRAWINGS
- MECHANICAL SUPPLY AIR GRILLE - REFER TO MECH. FOR SIZE AND TYPE
- MECHANICAL RETURN AIR GRILLE - REFER TO MECH. FOR SIZE AND TYPE
- MECHANICAL RETURN AIR GRILLE - REFER TO MECH. FOR SIZE AND TYPE
- CAMERA, REFER TO ELECTRICAL DRAWINGS

REFLECTED CEILING PLAN NOTES

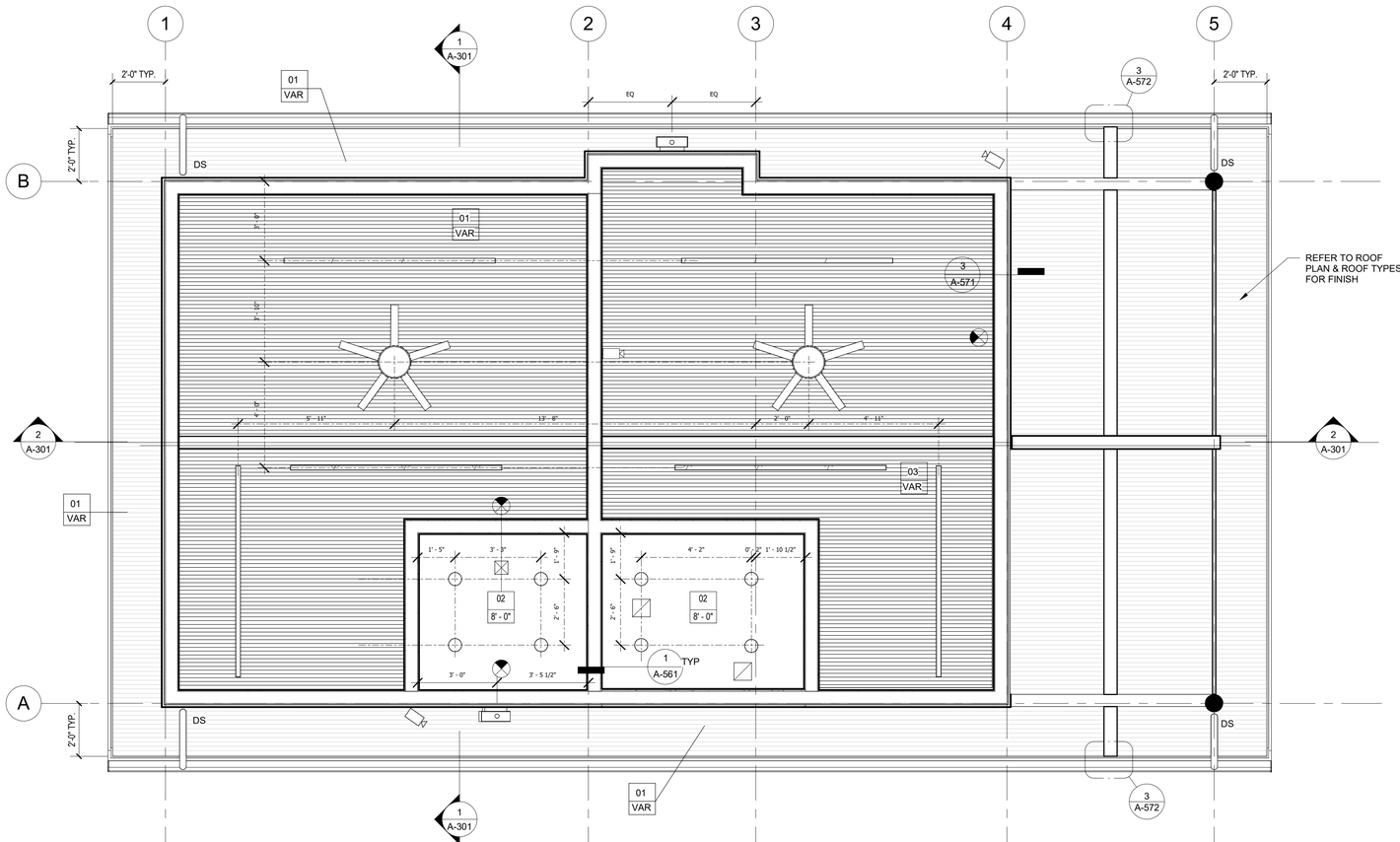
1. THESE GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLANS.
2. CEILING HEIGHTS ARE FROM FINISH FLOOR UNO.
3. TYPICAL CEILING HEIGHT TO BE 8' - 0", UNO.
4. ALIGN SOFFITS WITH FACE OF ADJACENT WALL, UNO
5. NOT ALL LIGHTING, INCLUDING PENDANT AND WALL MOUNTED LIGHT FIXTURES, SHOWN. SEE ELECTRICAL.
6. U.N.O. - PAINT ALL GWB CEILINGS PT-1 (SEE FINISH SCHEDULE)
7. COORDINATE LOCATION OF CEILING ACCESS DOORS WITH MECHANICAL & ELECTRICAL CONTRACTORS.
8. PROVIDE ADDITIONAL EDGE BLOCKING, CROSS BRACING & SUSPENDED SUPPORT WIRES OR ADDITIONAL FURRING FOR CEILING MOUNTED ITEMS (LIGHTING, ACCESS PANELS, GRILLES, CAMERAS, ETC.)

FLAG NOTES TO REFLECTED CEILING PLAN:

1. FULL HEIGHT WALL UP TO BOTTOM OF ROOF DECKING AT ROOF ABOVE.

CEILING TYPES:

CEILING TYPES:	XX TYPE X'-X" HEIGHT
01	**WD-1**- 2X6 T & G WOOD CAR-DECKING & SOFFIT ATTACHED TO ROOF STRUCTURE
02	GWB OVER STUD FRAMING



1 REFLECTED CEILING PLAN
3/8" = 1'-0"

NORTH

BID SET

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WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER -CEILING PLAN

A-151

SCALE
AS SHOWN

PARKS FILE#

811 Call 811 two business days before you dig

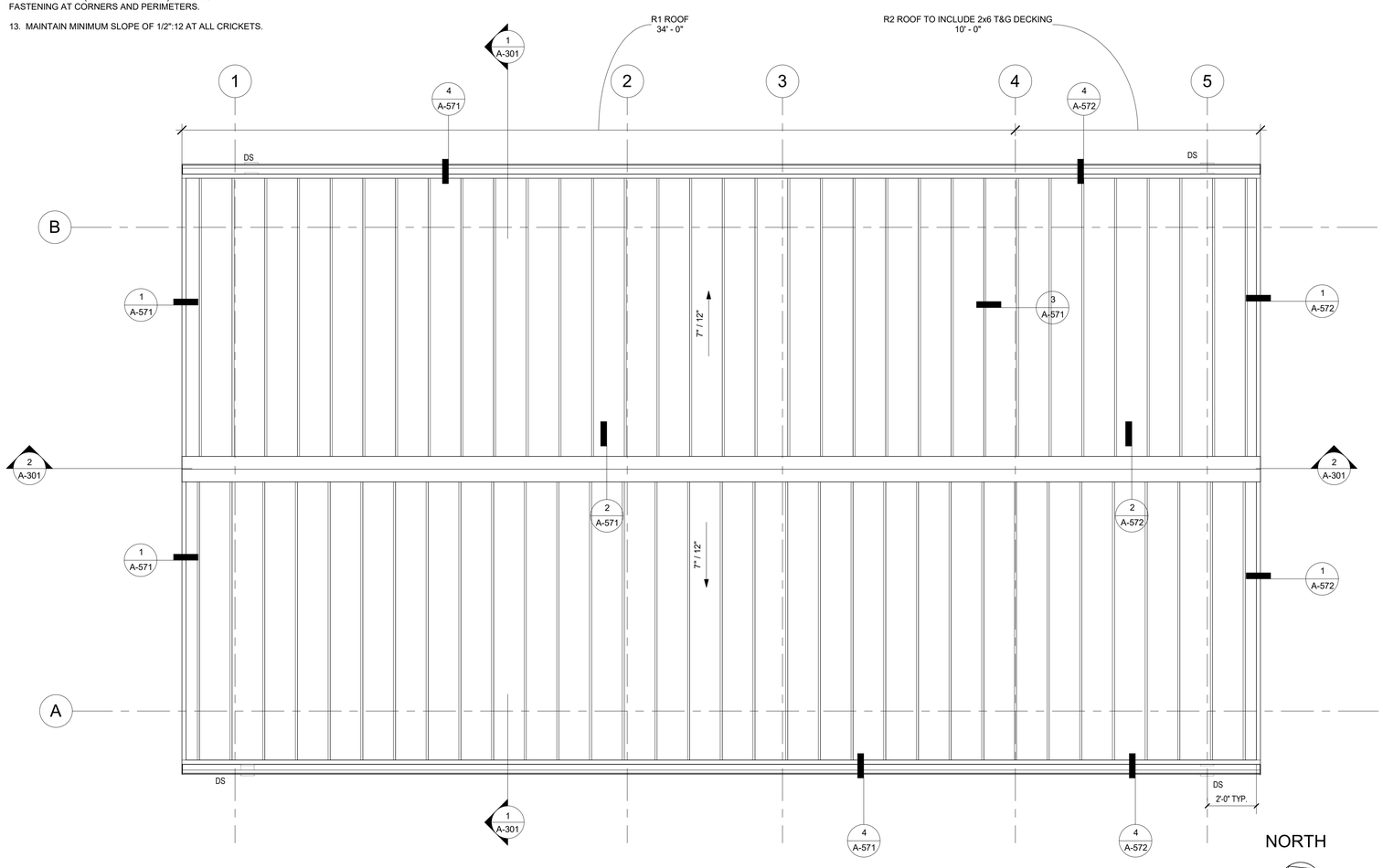
SHEET 76 OF 119

ROOF PLAN GENERAL NOTES

1. ROOF TYPES ARE DESCRIBED ON SHEET A-502. TYPICAL DETAILS ARE FOUND ON SHEETS A-571
2. COORDINATE PENETRATIONS w/ MECHANICAL.
3. FIELD VERIFY ALL DIMENSIONS.
4. FABRICATE FLASHING FROM SPECIFIED SHEET METAL PRODUCTS. HEM ALL EXPOSED EDGES 1/2". DO NOT INSTALL FASTENERS WITHIN MOVING LAPS.
5. INSTALL IN ACCORDANCE WITH LOCAL BUILDING CODES, SPECIFICATIONS AND DETAILS, AND MANUFACTURER'S INSTALLATION REQUIREMENTS, WHICHEVER ARE MORE STRINGENT.
6. COUNTER FLASHINGS SHALL EXTEND OVER BASE FLASHINGS A MINIMUM OF 4".
7. TWO BEADS OF POLYURETHANE SEALANT SHALL BE CONCEALED WITHIN ALL MOVING LAPS (BOTH HORIZONTAL AND VERTICAL LAP LEGS).
8. INSTALL FLASHING & COUNTERFLASHING @ BASEWALL CONDITIONS SUCH THAT THEY CAN BE REMOVED & RE-INSTALLED AT THE TIME OF FUTURE RE-ROOF.
9. NEOPRENE WASHERED GASKET SCREWS (NWGS) TO BE USED IN ALL EXPOSED CONDITIONS.
10. SHEET METAL FLASHING SHALL BE LAPPED SLOPE-SENSITIVE.
11. SHEET METAL FASTENERS SHALL BE INSTALLED AT NO GREATER THAN 24" O.C.
12. INSULATION TO BE INSTALLED IN ACCORDANCE WITH ASCE-7 (CURRENT EDITION) WITH INCREASED FASTENING AT CORNERS AND PERIMETERS.
13. MAINTAIN MINIMUM SLOPE OF 1/2":12 AT ALL CRICKETS.

ROOF PLAN LEGEND

DS	DOWNSPOUT
PIPE PENETRATION	PIPE PENETRATION & PLUMBING VENT PIPE
SLOPE →	SLOPE= 1/4" MINIMUM (DEPTH VARIES): COORDINATE WITH ROOF DETAILS
R#	ROOF TYPE. SEE SHEET A-502.



1 REFERENCE ROOF PLAN
3/8" = 1'-0"

811 Call 811 two business days before you dig

SHEET 77 OF 119

BID SET

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10-04-2021		DATE
		APP.
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JAMES HILL
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WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER- ROOF PLAN

A-161

SCALE
AS SHOWN

PARKS FILE#

EXTERIOR ELEVATION NOTES

1. ALL SHEET METAL AND MISC. METAL TO BE PRE-PAINTED. DO NOT PAINT STAINLESS STEEL.
2. WINDOW AND DOOR TRIM TO BE PAINTED .

EXTERIOR ELEVATION LEGEND

CEMENTITIOUS FIBER CEMENT PANEL W/ VERTICAL BATTENS

STANDING SEAM METAL ROOF

BRICK VENEER WAINSCOTTING

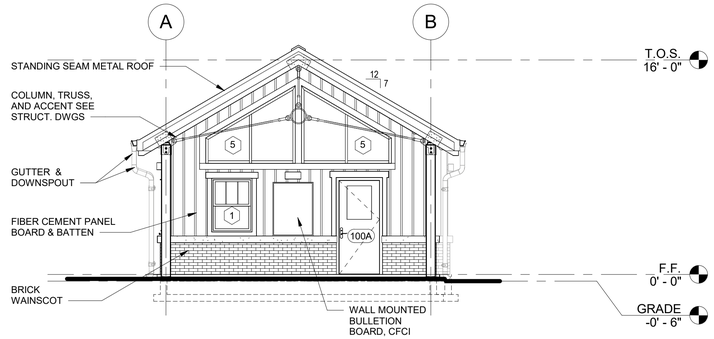
EXT. ELEVATION FINISH LEGEND

ROOF:
METAL ROOF SYSTEM
COLONIAL RED

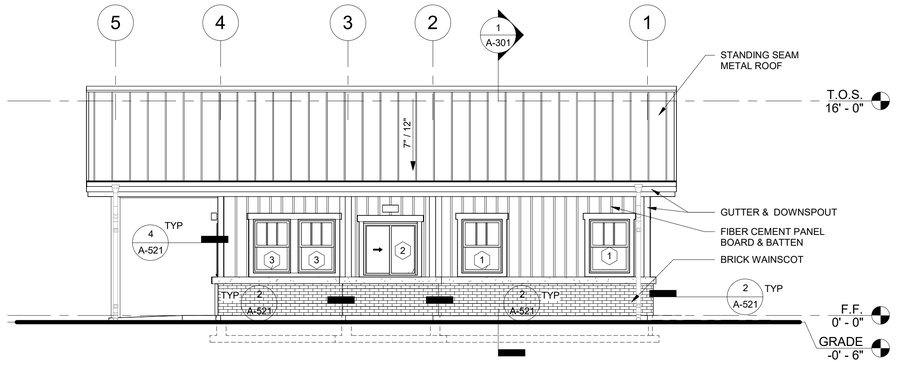
EXTERIOR WALLS (WOOD STUD WALL):
SHERWIN WILLIAMS
GRAYS HARBOR
COLOR #6236

EXTERIOR TRIM (WOOD STUD WALL):
SHERWIN WILLIAMS
DARK NIGHT
COLOR #6237

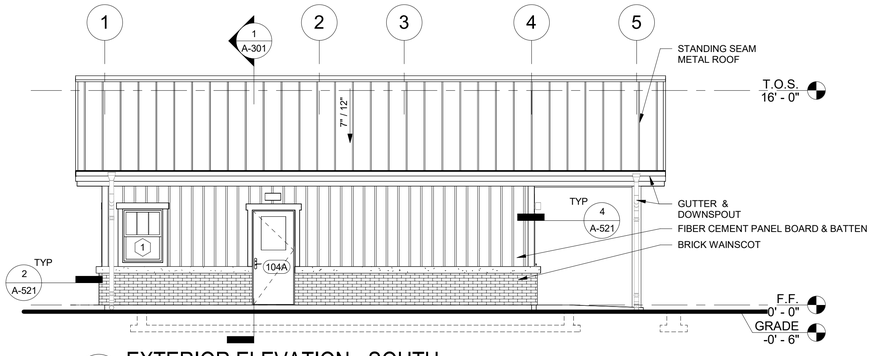
DOORS:
SHERWIN WILLIAMS
PROTEGE BRONZE
COLOR #6153



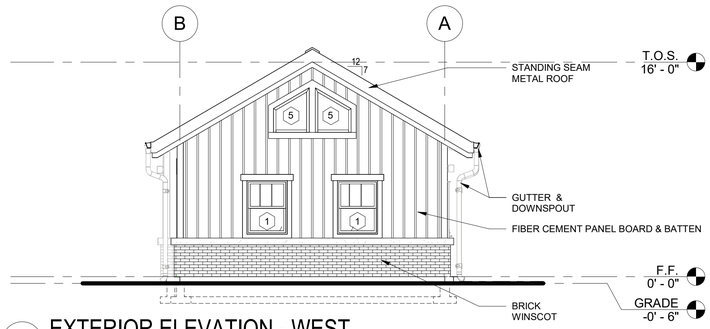
1 EXTERIOR ELEVATION - EAST
3/16" = 1'-0"



2 EXTERIOR ELEVATION - NORTH
3/16" = 1'-0"



3 EXTERIOR ELEVATION - SOUTH
3/16" = 1'-0"



4 EXTERIOR ELEVATION - WEST
3/16" = 1'-0"

811 Call 811 two business days before you dig

SHEET 78 OF 119

BID SET

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE
				10-04-2021

ACTION	BY	DATE
DESIGNED		01/17/2025
DRAWN		01/17/2025
CHECKED (FIELD)		
CHECKED (HDQTS.)		

10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

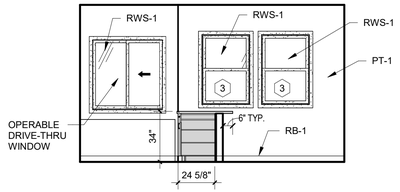
NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

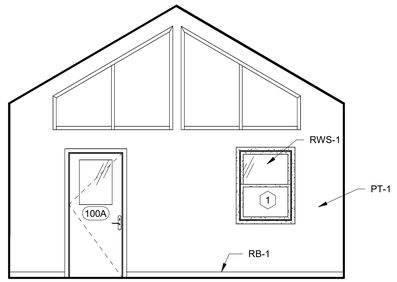
WELCOME CENTER - EXTERIOR ELEVATIONS A-201

SCALE
AS SHOWN

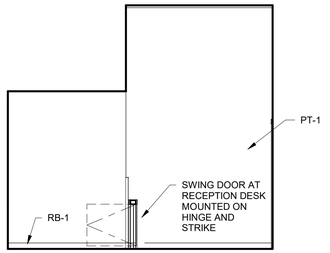
PARKS FILE#



1 LOBBY 100 - NORTH
1/4" = 1'-0"



2 LOBBY 100 - EAST
1/4" = 1'-0"



3 LOBBY 100 - SOUTH
1/4" = 1'-0"

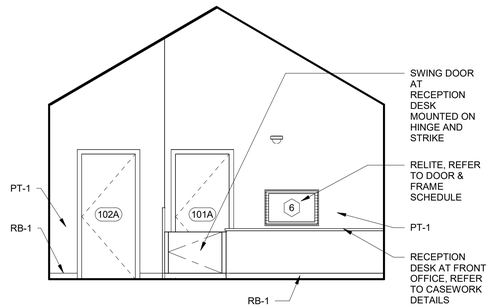
INTERIOR ELEVATION NOTES

- SEE A-251 FOR TYPICAL MOUNTING HEIGHTS
- SEE A-501 FOR INTERIOR WALL TYPES
- SEE A-601 FOR DOOR TYPES

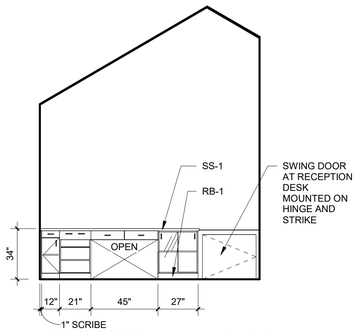
ACCESSORIES ABBREVIATION LEGEND

**REFER TO A-701 ACCESSORIES & EQUIPMENT LEGEND FOR PRODUCT INFORMATION

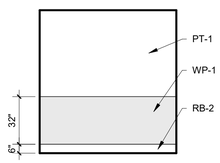
ABBREV	DESCRIPTION
GB-1	GRAB BAR (SIDE WALL) - WALL MOUNTED, CFCI
GB-2	GRAB BAR (BACK WALL) - WALL MOUNTED, CFCI
GB-3	GRAB BAR (SIDE WALL, VERTICAL) - WALL MOUNTED, CFCI
MR-1	MIRROR - WALL MOUNTED, CFCI
PLAM-1	PLASTIC LAMINATE WAINSCOTTING, CFCI
PTD-1	PAPER TOWEL DISPENSER - WALL MOUNTED, CFCI
RWS-1	ROLLER WINDOW SHADE- WALL MOUNTED, CFCI
RB-1	4" HIGH RUBBER BASE, CFCI
RB-2	6" HIGH RUBBER BASE, CFCI
SD-1	SOAP DISPENSER - WALL MOUNTED, CFCI
S-1	SINK- WALL MOUNTED, CFCI
SND-1	SANITARY NAPKIN HOLDER - WALL MOUNTED, CFCI
T-1	FLOOR MOUNTED TOILET - WALL MOUNTED, CFCI
TPD-1	TOILET PAPER DISPENSER - WALL MOUNTED, CFCI
TSCD-1	TOILET SEAT COVER DISPENSER - WALL MOUNTED, CFCI
WP-1	WALL PROTECTION - PLASTIC LAMINATE, CFCI



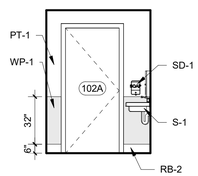
4 LOBBY 100 - WEST
1/4" = 1'-0"



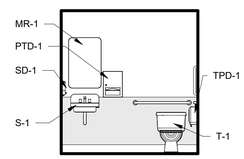
5 RECEPTION 101 - EAST
1/4" = 1'-0"



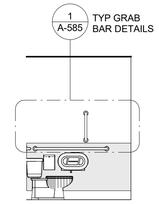
6 TOILET 102 - NORTH
1/4" = 1'-0"



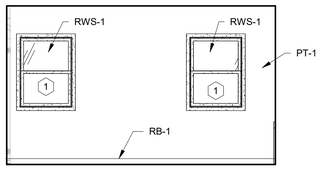
7 TOILET 102 - EAST
1/4" = 1'-0"



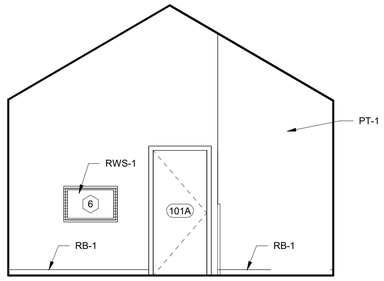
8 TOILET 102 - SOUTH
1/4" = 1'-0"



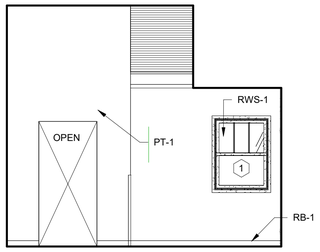
9 TOILET 102 - WEST
1/4" = 1'-0"



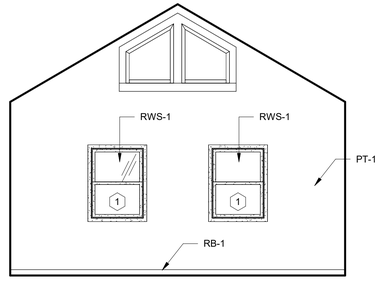
10 OFFICE 103- NORTH
1/4" = 1'-0"



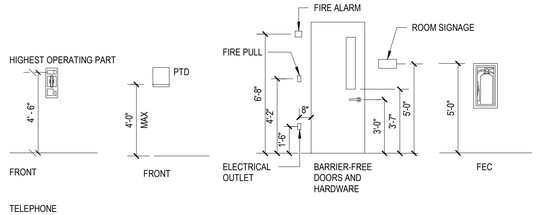
11 OFFICE 103- EAST
1/4" = 1'-0"



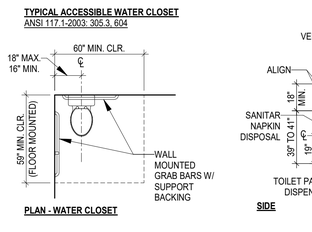
12 OFFICE 103- SOUTH
1/4" = 1'-0"

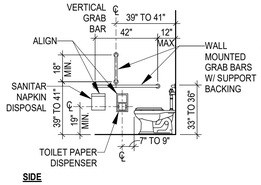


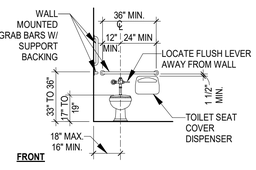
13 OFFICE 103 WEST
1/4" = 1'-0"

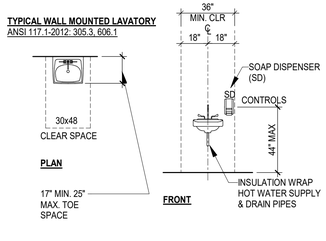


A TYPICAL MOUNTING HEIGHTS - UNLESS NOTED OTHERWISE
1/4" = 1'-0"









811 Call 811 two business days before you dig

BID SET

SHEET 79 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE
				10-04-2021

ACTION	BY	DATE
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DRAWN		01/17/2025
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CHECKED (HDQTS.)		

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JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

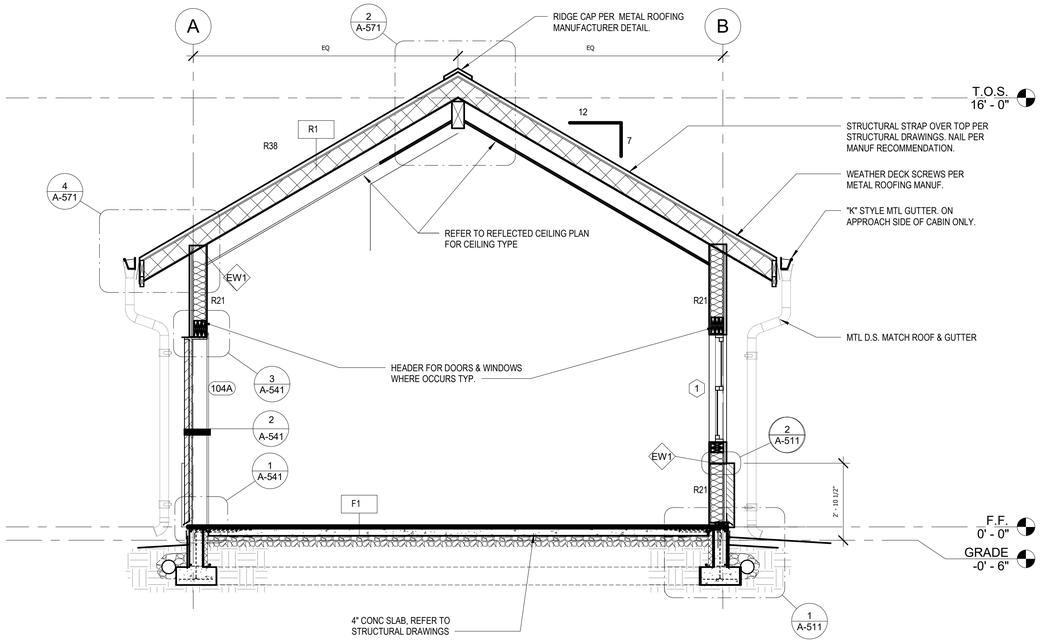
PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER-INTERIOR ELEVATIONS

A-251

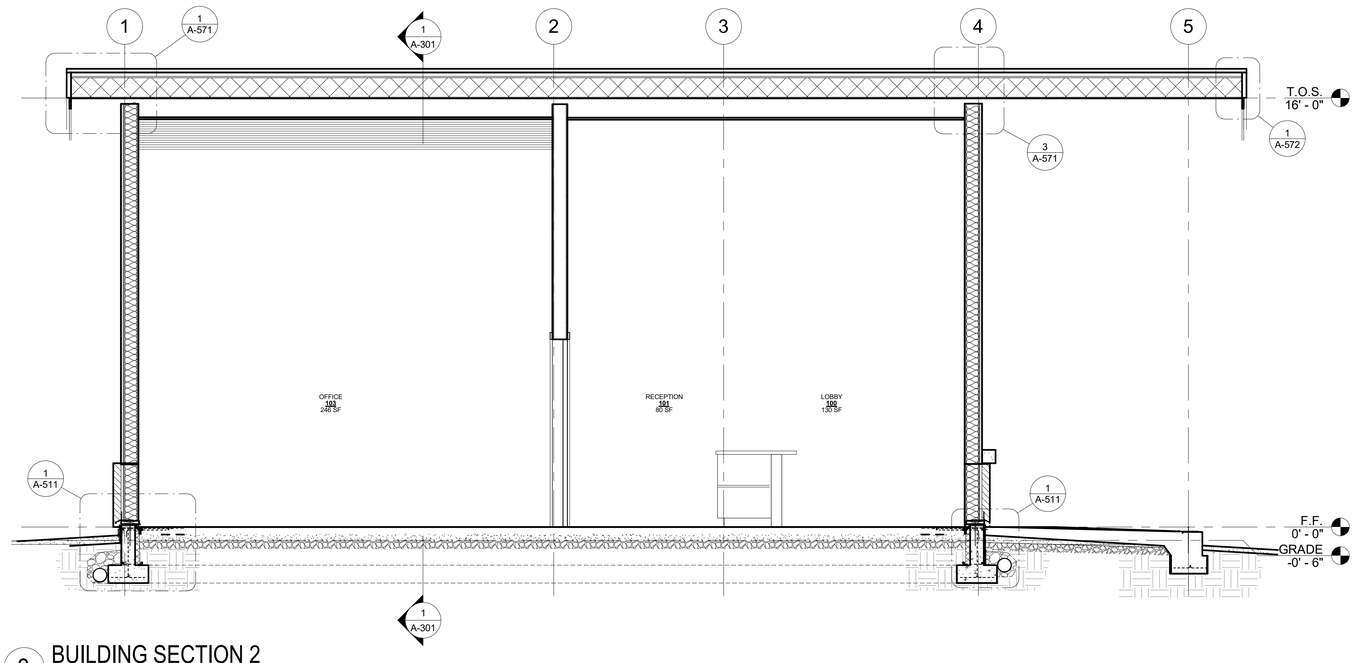
SCALE
AS SHOWN

PARKS FILE#



1 BUILDING SECTION 1

3/8" = 1'-0"



2 BUILDING SECTION 2

3/8" = 1'-0"

BUILDING SECTION - LEGEND

x
x — SLOPE

F# — FLOOR OR ROOF TYPE SEE SHEET A-501

CAD NO.		
10-04-2021		DATE
		APP.
		INT.
		REVISIONS
		NO.

ACTION	BY	DATE
DESIGNED		01/17/2025
DRAWN		01/17/2025
CHECKED (FIELD)		
CHECKED (HDQTS.)		

10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER- BUILDING SECTIONS

A-301

SCALE
AS SHOWN

PARKS FILE#

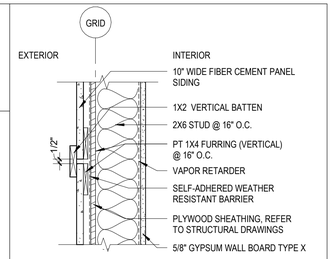
BID SET

811 Call 811 two business days before you dig

EXTERIOR WALL

PER PLAN EW- -

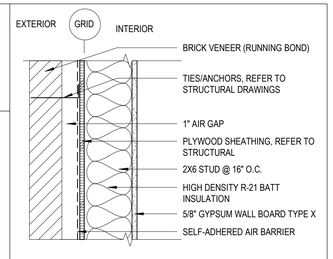
DESCRIPTION: EXTERIOR WALL WITH WOOD STUD.



EW1 AS INDICATED ABOVE

PER PLAN EW- -

DESCRIPTION: EXTERIOR WALL WITH WOOD STUD.

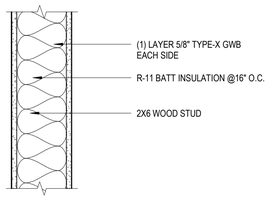


EW2 AS INDICATED ABOVE

INTERIOR WALL

PER PLAN W1- -

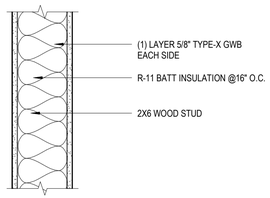
DESCRIPTION: 2X6 STUD PARTITION WALL



W1b AS INDICATED ABOVE

PER PLAN W2- -

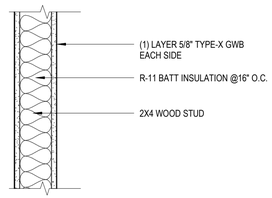
DESCRIPTION: 2X6 STUD PARTITION WALL



W2b AS INDICATED ABOVE

PER PLAN W3- -

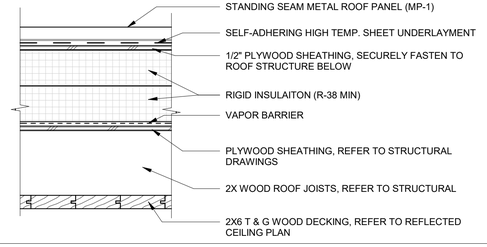
DESCRIPTION: 2X6 STUD PARTITION WALL



W3a AS INDICATED ABOVE

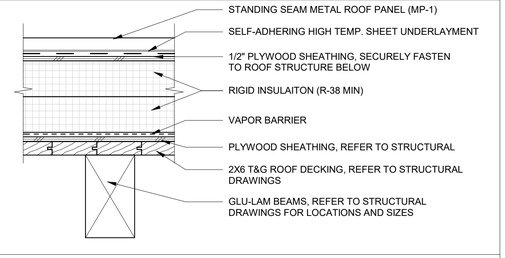
ROOF TYPE R1

R1



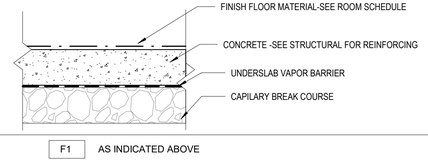
ROOF TYPE R2

R2



FLOOR TYPE

F1

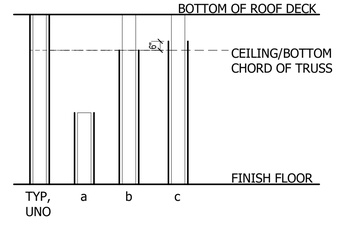


F1 AS INDICATED ABOVE

TOP OF WALL CONDITION

NOTE: ALL WALLS AND GWB EXTEND TO STRUCTURE, UNLESS NOTED OTHERWISE. REFER TO PARTITION HEIGHTS BELOW FOR WALLS THAT DO NOT EXTEND TO STRUCTURE. REFER ALSO TO STRUCTURAL SHEETS FOR LOCATIONS OF SHEAR WALL AND REQUIRED SHEATHING.

a. PARTIAL HEIGHT PARTITION
b. PARTITION - EXTEND GWB TO 6" ABOVE UPPERMOST CEILING ON BOTH SIDES OF WALL AND BRACE STUDS TO STRUCTURE ABOVE AS REQUIRED
c. FULL HEIGHT WALL - STUDS EXTEND TO STRUCTURE, EXTEND GWB TO 6" ABOVE UPPERMOST CEILING ON BOTH SIDES OF WALL.



WALL TYPES NOTES

1. SUBSTITUTE BACKER BOARD FOR GWB AT TILE.
2. REFER TO FINISH SCHEDULE FOR WALL FINISH.
3. ALL ASSEMBLY TYPES ARE DRAWN IN SECTION UNLESS A UNIQUE CONDITION REQUIRES AN ADDITIONAL PLAN VIEW OF THE ASSEMBLY.
4. IN AN ASSYMMETRICAL WALL CONDITION, THE EXTRA LAYERS WILL OCUR ON THE SIDE OF THE WALL THE TAG IS LOCATED ON.
5. PROVIDE BACKING IN WALLS FOR CASEWORK, MESSAGE BOARDS, TOILET ACCESSORIES, OFOI FURNISHINGS AND ALL OTHER WALL SUPPORTED ITEMS. REFER TO INTERIOR ELEVATIONS AND PLANS FOR LOCATIONS.
6. PROVIDE BACKING AT ELECTRICAL AND COMMUNICATIONS ROOMS AS REQUIRED PER THE ELECTRICAL REQUIREMENTS.
7. TOP AND BOTTOM RUNNERS: ALIGN AND ANCHOR TO BUILDING STRUCTURAL MEMBERS AT EACH END AND AT 24" O.C.
8. WHERE METAL STUD DEFLECTION TRACKS ARE USED, PROVIDE AT TOP OF FULL WALL HEIGHT PARTITIONS TO ALLOW STRUCTURE TO DEFLECT WITHOUT IMPOSING LOADS ON WALL.
9. AT CEILING AND SOFFIT FRAMING:
   A. INSTILL FRAMING AT 16" O.C. AND CONNECT ENDS OF STUD TO HORIZONTAL RUNNER AND SECURELY ATTACH TO BUILDING STRUCTURE OR WALL FRAMING.
   B. MID-SPAN SUPPORTS: FOR METAL WALL FRAMING: ANCHOR TO STRUCTURE ABOVE.
   C. PARTITION CORNERS: MINIMUM OF (3) STUDS.
10. AT AIR BARRIER WALLS PROVIDE:
   A. SEALANT BETWEEN RUNNERS AND SUBSTRATE.
   B. SEALANT BETWEEN WALL AND ADJACENT VERTICAL SURFACES.
   C. SEAL AIR BARRIER MEMBRANE TO ADJACENT SURFACE, FULL PERIMETER OF WALL.
   D. SEALANT AROUND ALL OPENINGS AT ELECTRICAL DEVICES, DUCTS, AND PIPING AND STRUCTURE PENETRATING WALL SURFACES.
11. REFER TO GENERAL SHEETS (**G-301**) FOR AIR BARRIER LOCATIONS.
12. AT STC RATED WALLS, PROVIDE:
   A. ACOUSTIC SEALANT BETWEEN RUNNERS AND SUBSTRATE.
   B. ACOUSTIC SEALANT BETWEEN STUDS AND ADJACENT VERTICAL SURFACES.
   C. ACOUSTIC SEALANT AROUND ALL OPENINGS AT ELECTRICAL DEVICES, DUCTS AND PIPING AND STRUCTURE PENETRATING SURFACES.

ASSEMBLY TYPES

E = EXTERIOR
R = ROOF
F = FLOOR

W = INTERIOR WOOD STUD
EW = EXTERIOR WOOD STUD
S = INTERIOR METAL STUD
C = CONCRETE
M = MASONRY
X = MISCELLANEOUS INTERIOR WALL MATERIAL

811 Call 811 two business days before you dig

SHEET 81 OF 119

BID SET

CAD NO.

	DATE
10-04-2021	DATE
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	INT.
	REVISIONS
	NO.

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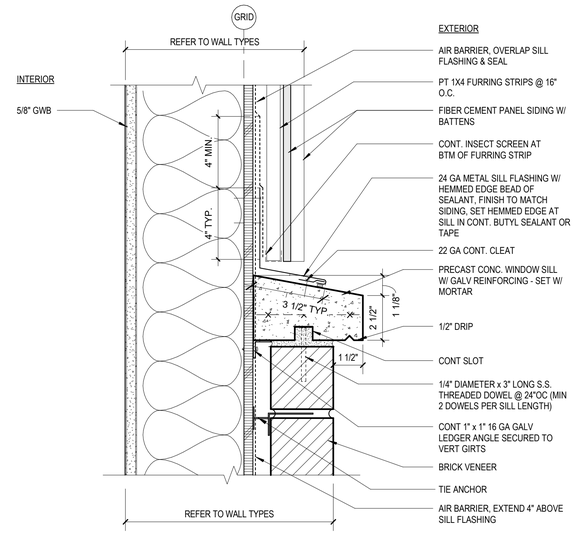
PHASE 3B WELCOME CENTER & LOOP TRAIL

WALL TYPES, FLOOR, AND ROOF TYPES

A-501

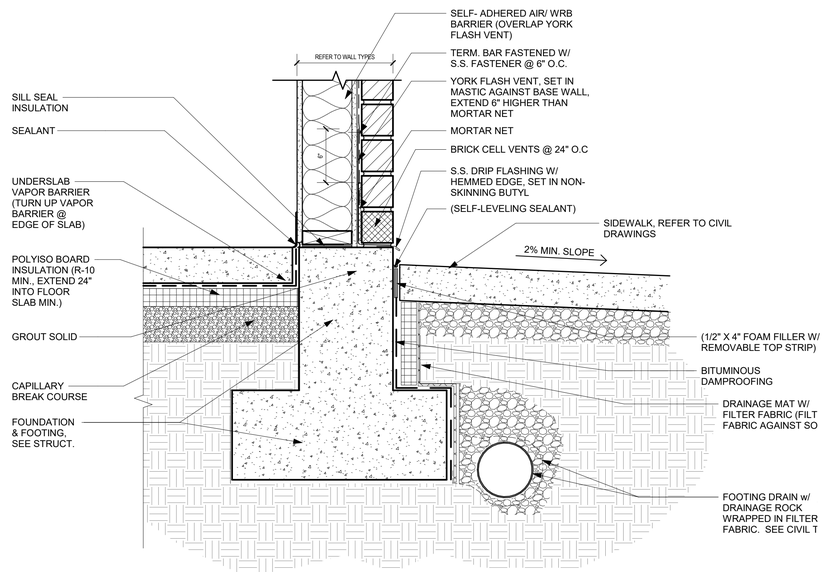
SCALE
AS SHOWN

PARKS FILE#



2 EXTERIOR DETAIL @ WAINSCOT

3" = 1'-0"



1 FOUNDATION @ MASONRY VENEER @ SIDEWALK

1 1/2" = 1'-0"

BID SET

Call 811 two business days before you dig

SHEET 82 OF 119

CAD NO.

10-04-2021		DATE
		APP.
		INT.
		REVISIONS
		NO.

ACTION	BY	DATE
DESIGNED		01/17/2025
DRAWN		01/17/2025
CHECKED (FIELD)		
CHECKED (HDQTS.)		

10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

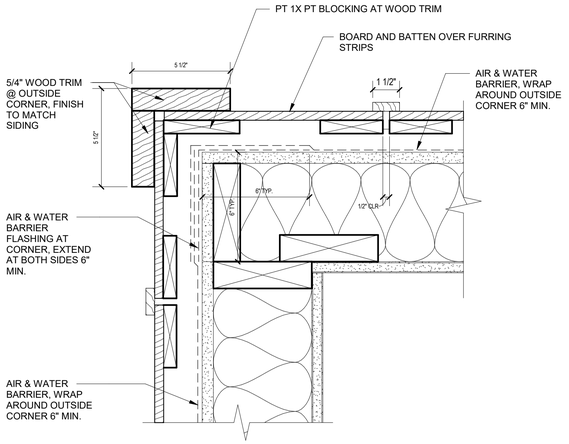
NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER - FOUNDATION DETAILS
A-511

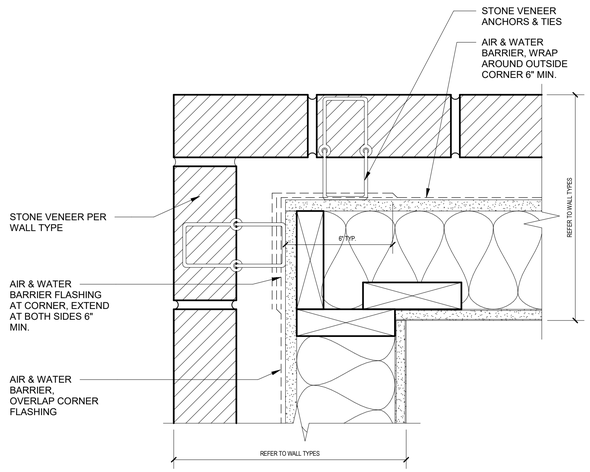
SCALE
AS SHOWN

PARKS FILE#



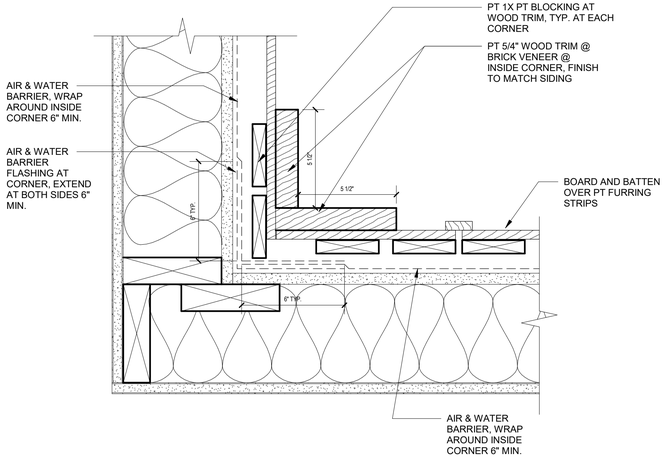
4 TYP. OUTSIDE CORNER @ SIDING

3" = 1'-0"



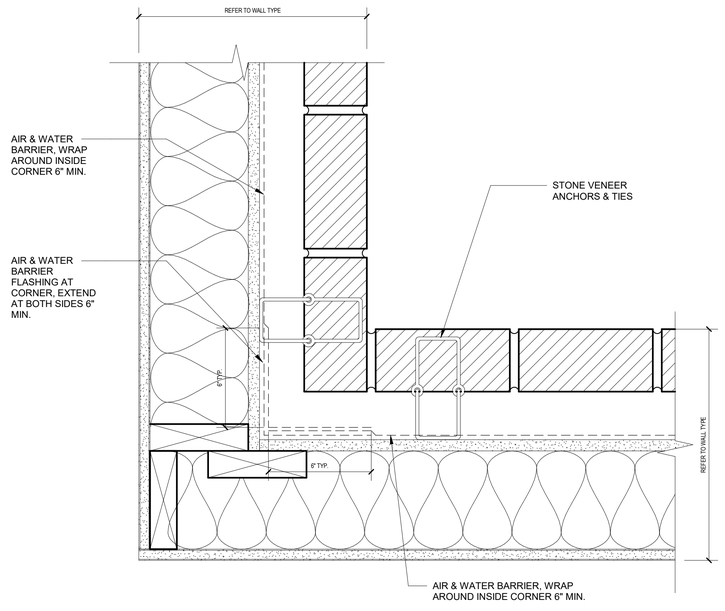
2 TYP. OUTSIDE CORNER @ STONE VENEER

3" = 1'-0"



3 TYP. INISDE CORNER @ SIDING

3" = 1'-0"



1 TYP. INSIDE CORNER @ STONE VENEER

3" = 1'-0"

811 Call 811 two business days before you dig

BID SET

CAD NO.

REVISIONS	DATE	APP.	INT.
	10-04-2021		

NO.	ACTION	BY	DATE
	DESIGNED		01/17/2025
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	CHECKED (HDQTS.)		

10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

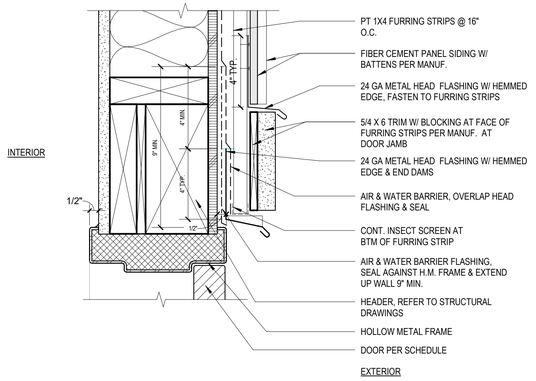
NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER- EXTERIOR WALL DETAILS
A-521

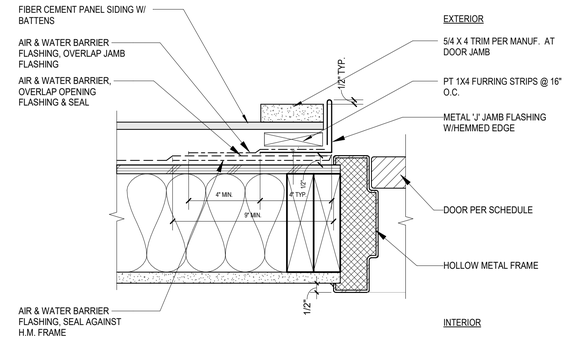
SCALE
AS SHOWN

PARKS FILE#



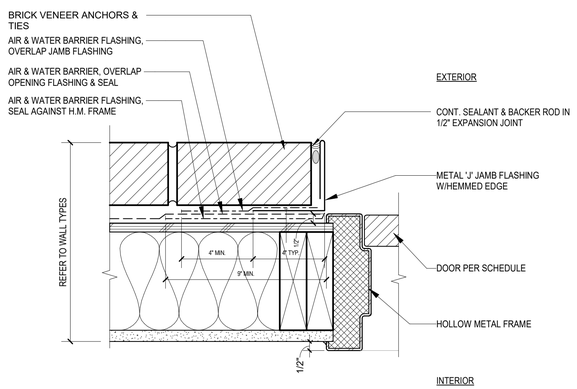
3 TYP. HM DOOR HEAD @ SIDING

3" = 1'-0"



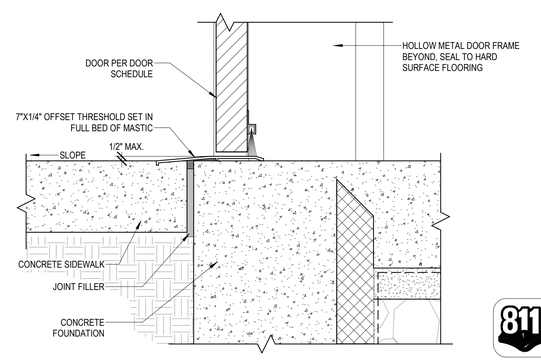
2 TYP. HM DOOR JAMB @ SIDING

3" = 1'-0"



4 TYP. HM DOOR JAMB @ BRICK VENEER

3" = 1'-0"



1 EXTERIOR HOLLOW METAL THRESHOLD

3" = 1'-0"

811 Call 811 two business days before you dig

BID SET

CAD NO.

REVISIONS	DATE	APP.	INT.
	10-04-2021		

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10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

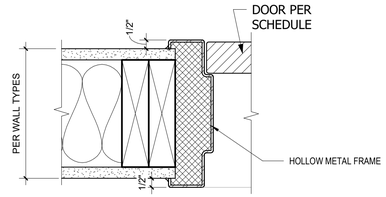
NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

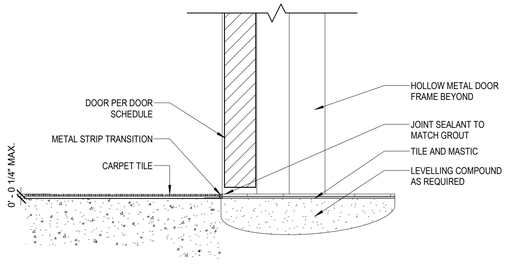
WELCOME CENTER-EXTERIOR DOOR & FRAME DETAILS
A-541

SCALE
AS SHOWN

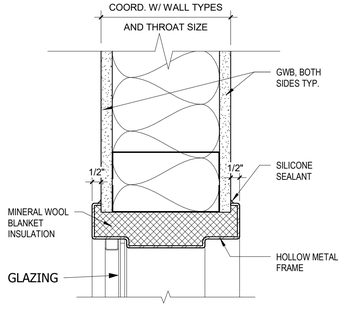
PARKS FILE#



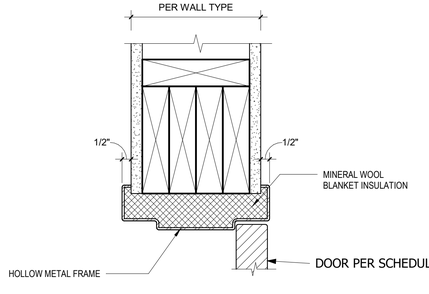
3 H.M. DOOR JAMB @ WOOD STUD WALL (INTERIOR)
3" = 1'-0"



2 INTERIOR HOLLOW METAL THRESHOLD - TILE TO CPT.
3" = 1'-0"



4 RELITE HEAD @ STUD WALL (JAMB & SILL SIM.)
3" = 1'-0"



1 H.M. DOOR HEAD @ WOOD STUD WALL
3" = 1'-0"

BID SET

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE
				10-04-2021

ACTION	BY	DATE
DESIGNED		01/17/2025
DRAWN		01/17/2025
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CHECKED (HDQTS.)		

10347
REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

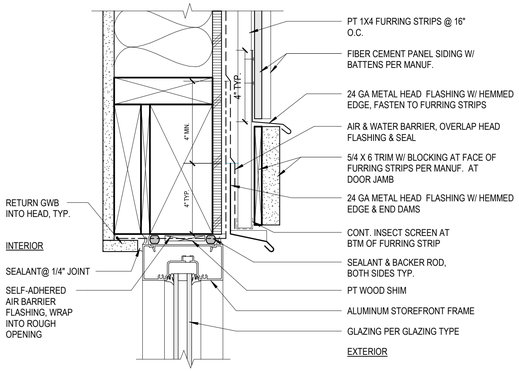
WELCOME CENTER- INTERIOR DOOR & FRAME DETAILS
A-542

Call 811 two business days before you dig

SCALE
AS SHOWN

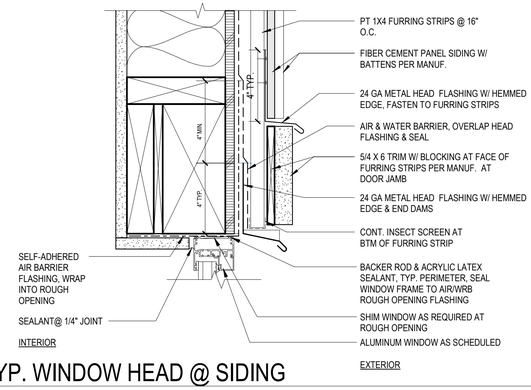
PARKS FILE#

SHEET 85 OF 119



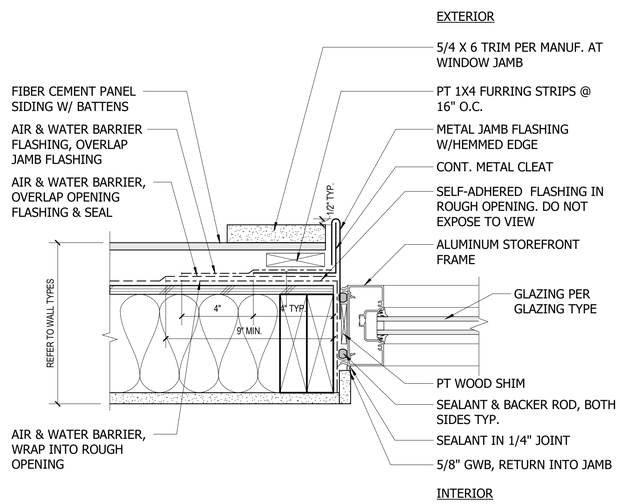
7 TYP. STOREFRONT HEAD @ TRIM

3" = 1'-0"



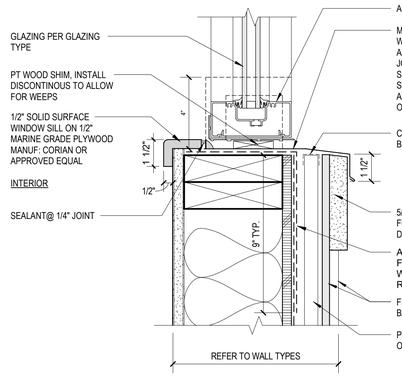
3 TYP. WINDOW HEAD @ SIDING

3" = 1'-0"



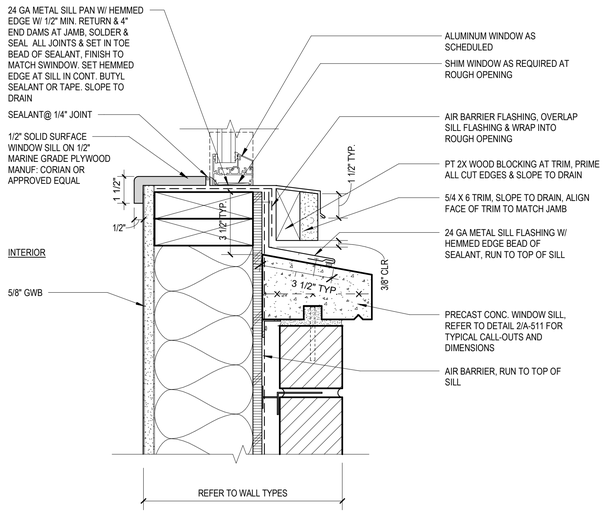
8 TYP. STOREFRONT JAMB @ TRIM

3" = 1'-0"



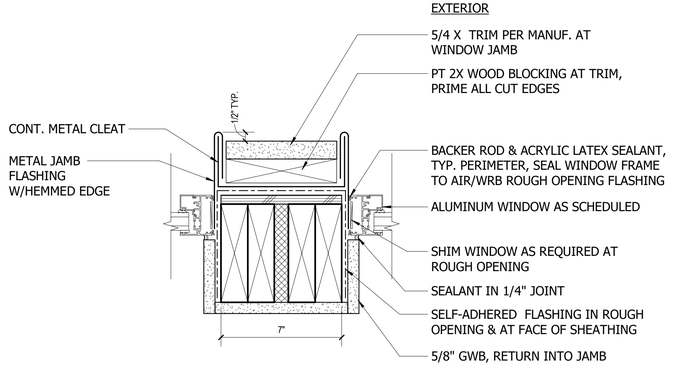
5 TYP. STOREFRONT SILL @ TRIM

3" = 1'-0"



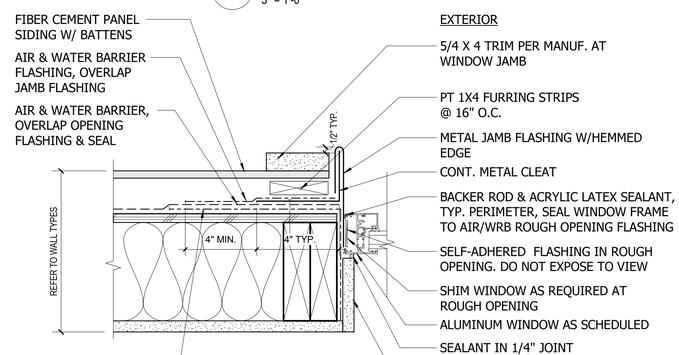
2 TYP. WINDOW SILL @ BRICK VENEER SILL

3" = 1'-0"



4 TYP. WINDOW JAMB @ JAMB

3" = 1'-0"



1 TYP. WINDOW JAMB @ SIDING

3" = 1'-0"

BID SET

811 Call 811 two business days before you dig

SHEET 86 OF 119

CAD NO.		
10-04-2021		DATE
		APP.
		INT.
		REVISIONS
		NO.

ACTION	BY	DATE
DESIGNED		01/17/2025
DRAWN		01/17/2025
CHECKED (FIELD)		
CHECKED (HDQTS.)		

10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

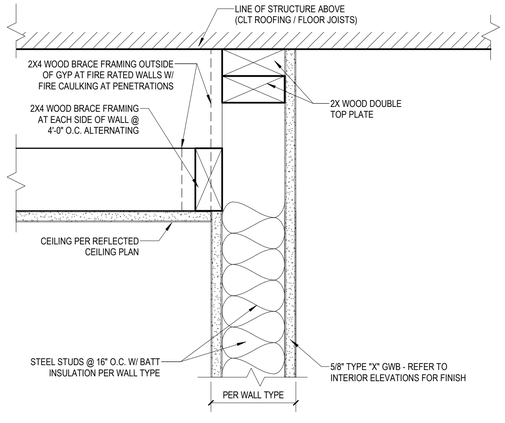
NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER - EXTERIOR WINDOW DETAILS A-543

SCALE
AS SHOWN

PARKS FILE#



1 WALL TYPE DETAIL @ GWB / EXPOSED CEILING DETAIL
3" = 1'-0"

811 Call 811 two business days before you dig

BID SET

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE
				10-04-2021

ACTION	BY	DATE
DESIGNED		01/17/2025
DRAWN		01/17/2025
CHECKED (FIELD)		
CHECKED (HDQTS.)		

10347
REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

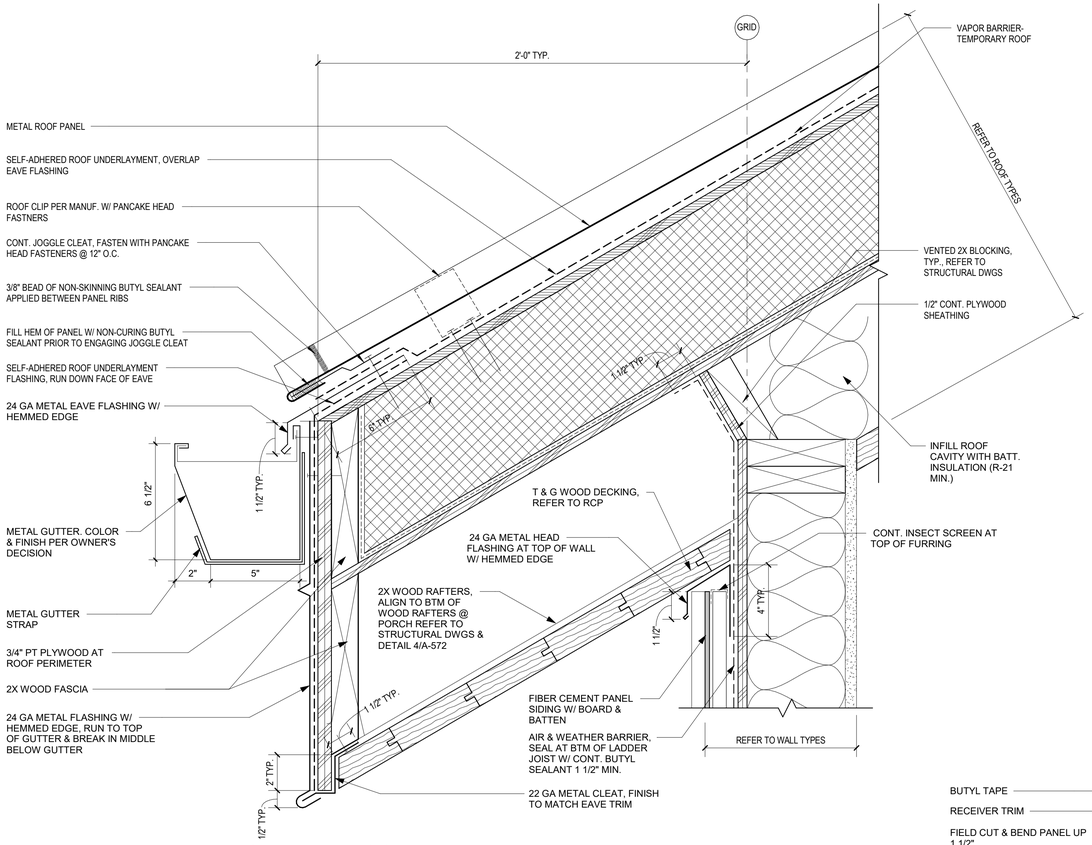
PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER - CEILING DETAILS

A-561

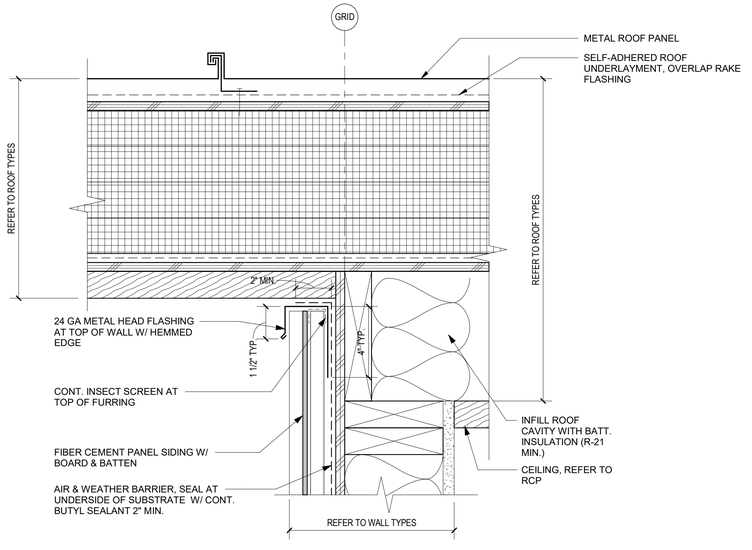
SCALE
AS SHOWN

PARKS FILE#



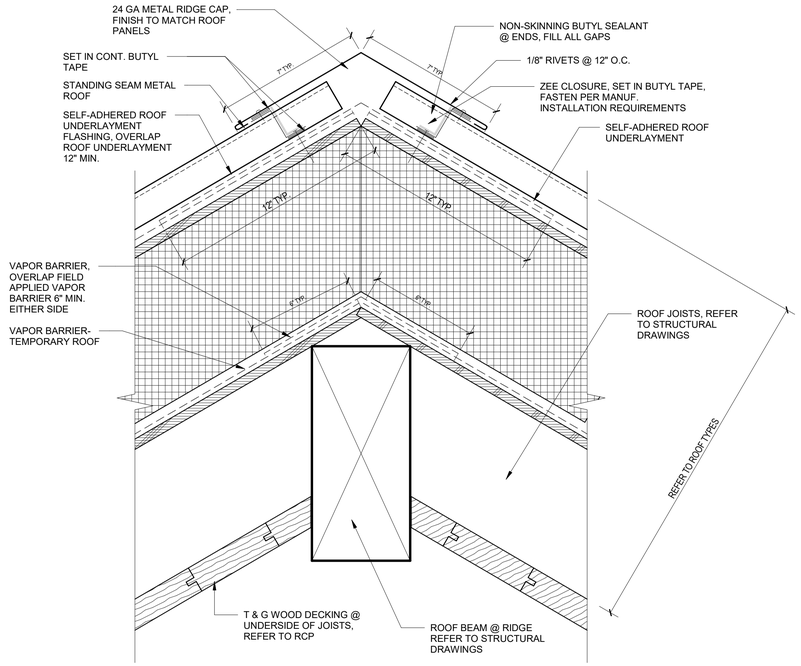
4 TYP. EAVE/ GUTTER @ METAL ROOF

3" = 1'-0"



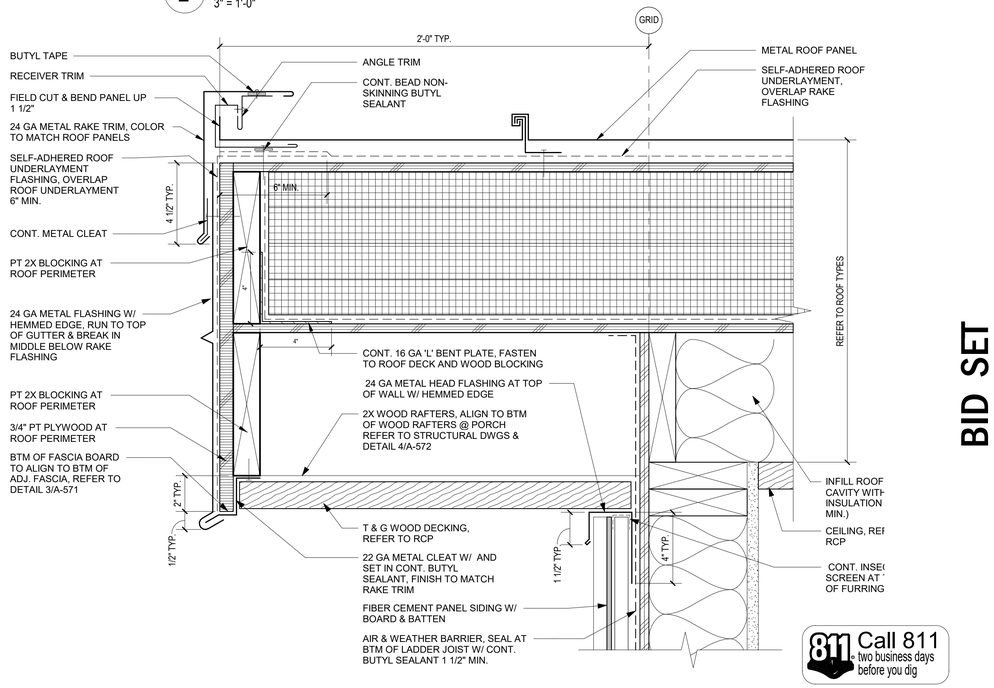
3 TYP. METAL ROOF @ PORCH TRANSITION

3" = 1'-0"



2 TYP. RIDGE @ METAL ROOF

3" = 1'-0"



1 TYP. RAKE @ METAL ROOF

3" = 1'-0"

811 Call 811 two business days before you dig

CAD NO.		
10-04-2021		DATE
		APP.
		INT.
		REVISIONS
		NO.

ACTION	BY	DATE
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10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER - ROOF DETAILS

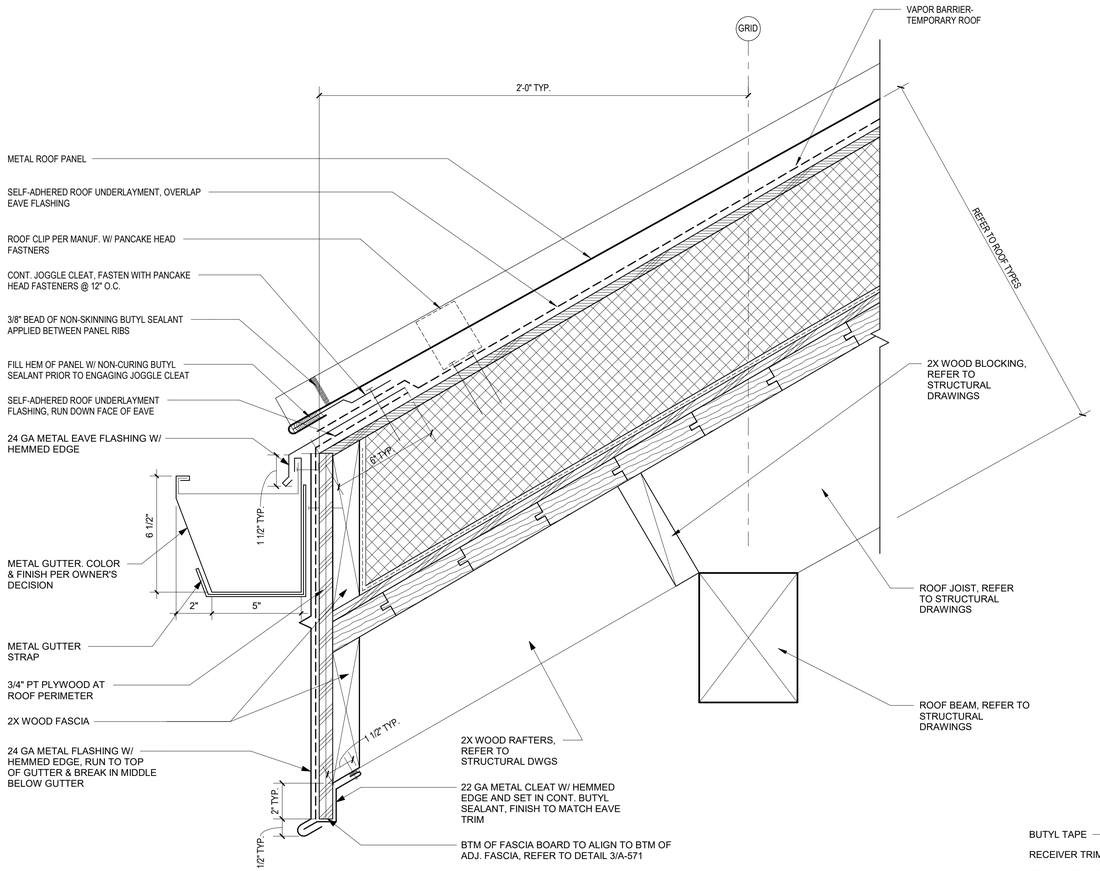
A-571

SCALE
AS SHOWN

PARKS FILE#

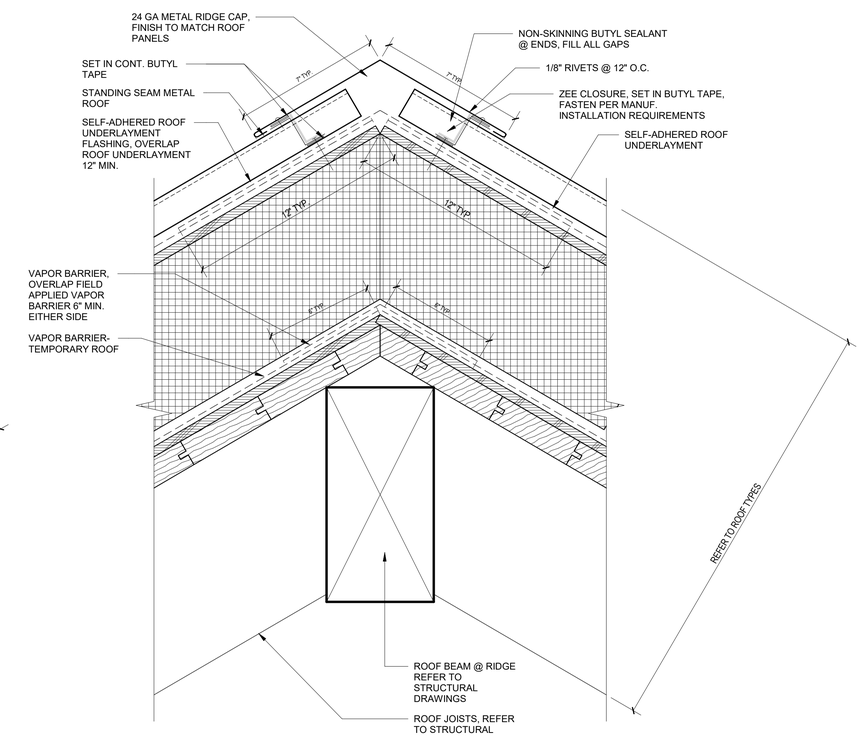
BID SET

SHEET 88 OF 119



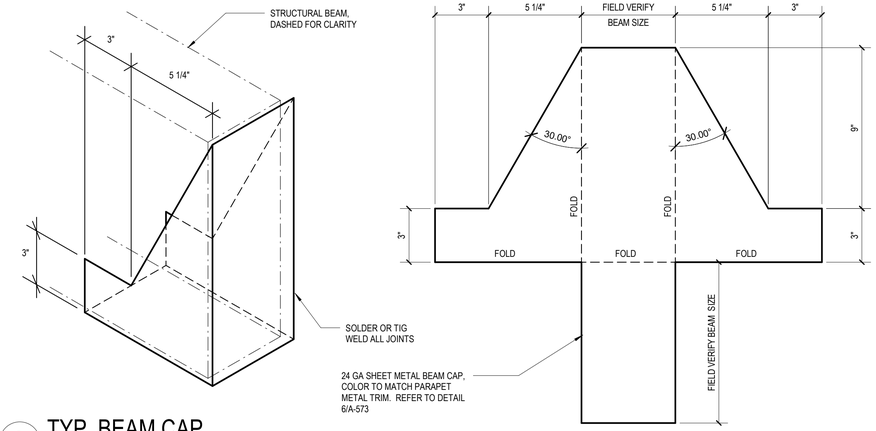
4 TYP. EAVE/ GUTTER @ METAL ROOF @ PORCH

3" = 1'-0"



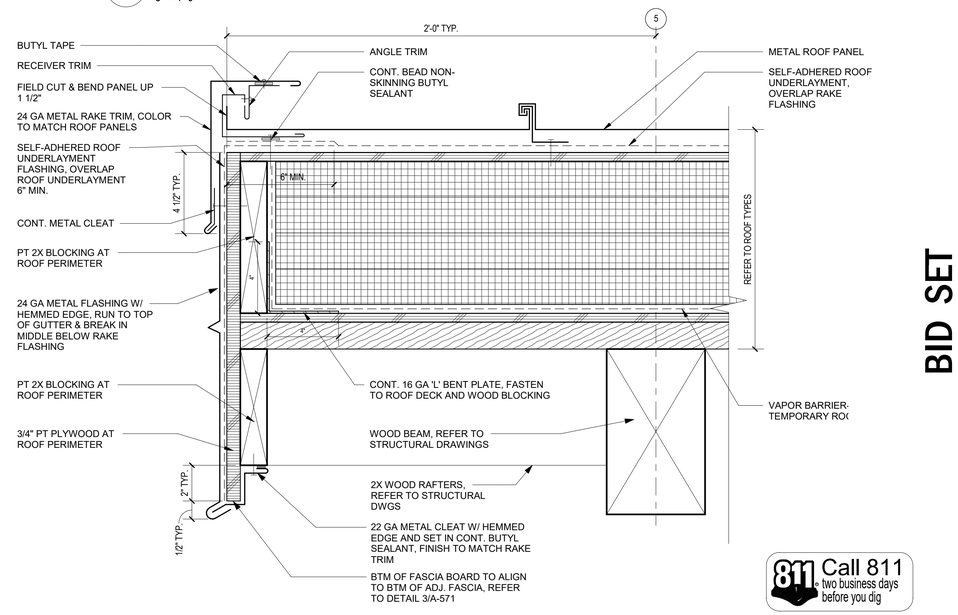
2 TYP. RIDGE @ METAL ROOF @ PORCH

3" = 1'-0"



3 TYP. BEAM CAP

3" = 1'-0"



1 TYP. RAKE @ METAL ROOF @ PORCH

3" = 1'-0"

BID SET

811 Call 811 two business days before you dig

SHEET 89 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE
				10-04-2021

ACTION	BY	DATE
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CHECKED (HDQTS.)		

10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

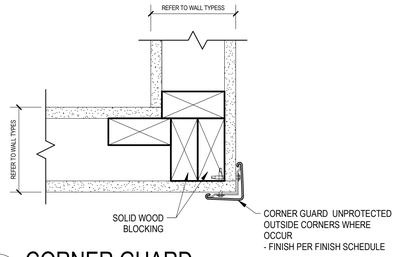
WELCOME CENTER - ROOF DETAILS

A-572

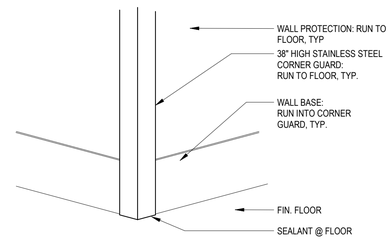
SCALE

AS SHOWN

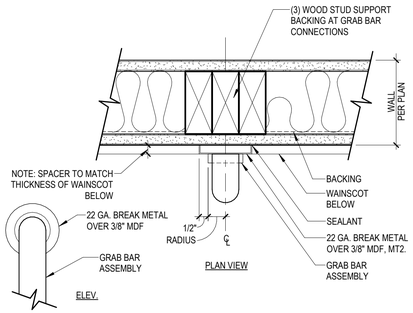
PARKS FILE#



3 CORNER GUARD
3" = 1'-0"



2 CORNER GUARD DETAIL
1 1/2" = 1'-0"



1 GRAB BAR DETAIL
3" = 1'-0"

811 Call 811 two business days before you dig

SHEET 90 OF 119

BID SET

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE
				10-04-2021

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10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER - MISCELLANEOUS DETAILS
A-585

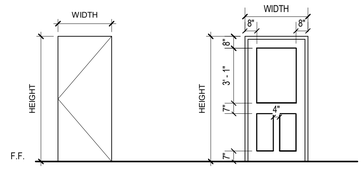
SCALE
AS SHOWN

PARKS FILE#

DOOR SCHEDULE

NO.	ROOM NAME	DOOR						FRAME			HARDWARE GROUP	REMARKS
		TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL	FINISH		
100A	LOBBY	B	3' - 0"	7' - 0"	2"	HM	PAINT	F1	HM	PAINT	SET 7	W/ STOPS
100B	RECEPTION	A	3' - 0"	2' - 6"	2"	WD	PAINT	F1	WD	PAINT	SET 8	PART HEIGHT SWING GATE DOOR & PART OF CASEWORK SUBMIITTAL
101A	OFFICE	A	3' - 0"	7' - 0"	2"	SC	PAINT	F1	HM	PAINT	SET 9	
102A	TOILET	A	3' - 0"	7' - 0"	2"	SC	PAINT	F1	HM	PAINT	SET 10	
104A	MUD ROOM	B	3' - 0"	7' - 0"	2"	HM	PAINT	F1	HM	PAINT	SET 11	

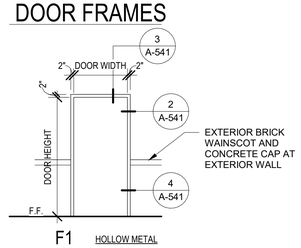
DOOR TYPES



A FLUSH - INSULATED HOLLOW METAL DOOR

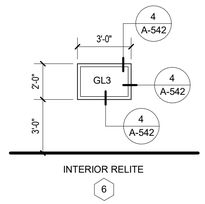
B FLUSH - INSULATED HOLLOW METAL DOOR

DOOR FRAMES



F1 HOLLOW METAL

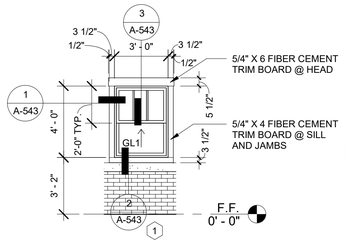
INTERIOR RELITE TYPES



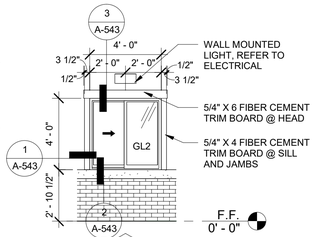
INTERIOR RELITE

6

WINDOW & STOREFRONT TYPES



ALUMINUM - TYPE -1 (OPERABLE)



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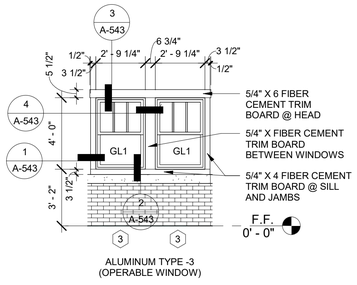

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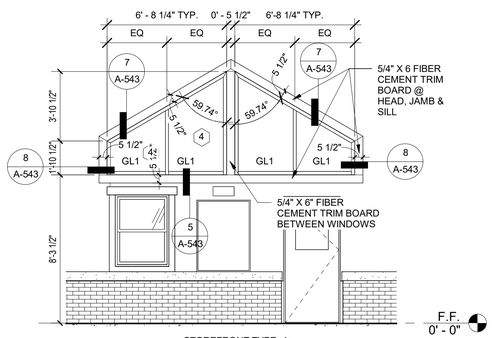
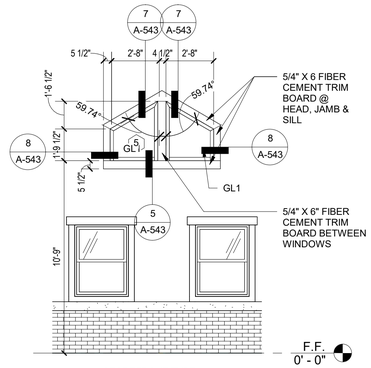
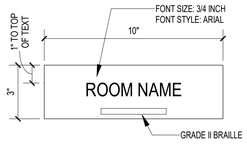


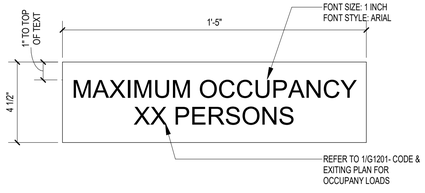
STOREFRONT TYPE -4 (FIXED WINDOW)

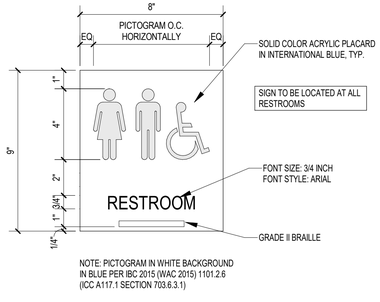


STOREFRONT TYPE -5 (FIXED WINDOW)

SIGNAGE LEGEND







NOTE: PICTOGRAM IN WHITE BACKGROUND IN BLUE PER IBC 2015 (WAC 2015) 1101.2.6 (ICC A117.1 SECTION 703.6.3.1)

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
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.
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
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
GL2- HIGH PERFORMANCE LOW-E TEMPERED INSULATED CLEAR GLASS
GL3 - CLEAR ANNEALED FLOAT GLASS

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

BID SET

811 Call 811 two business days before you dig

CAD NO.

REVISIONS NO.	DATE	APP.	INT.
	10-04-2021		

ACTION	BY	DATE
DESIGNED		01/17/2025
DRAWN		01/17/2025
CHECKED (FIELD)		
CHECKED (HDQTS.)		

10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER - DOOR & FRAME SCHEDULE & WINDOW TYPES
A-601

SCALE
AS SHOWN

PARKS FILE#

FINISH SCHEDULE

Number	Name	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	Ceiling Finish	COUNTER	CABINETS	BACKSPLASH	REMARKS-
100	LOBBY	NSV-1	RB-1	PT-1	PT-1	PT-1	PT-1	WD-1				
101	RECEPTION	NSV-1	RB-1	PT-1	PT-1	PT-1	PT-1	WD-1	SS-1	PL-1/ PL-2	SS-1	
102	TOILET	NSV-1	RB-1	PT-1	PT-1	PT-1	PT-1	GWB-1				
103	OFFICE	NSV-1	RB-1	PT-1	PT-1	PT-1	PT-1	WD-1				
104	MUD ROOM	NSV-1	RB-1	PT-1	PT-1	PT-1	PT-1	GWB-1				

INTERIOR FINISH FLOOR PLAN LEGEND

- NON-SLIP SHEET VINYL FLOORING, REFER TO INTERIOR FINISH LEGEND
- CARPET FLOORING, REFER TO INTERIOR FINISH LEGEND
- HARDENED CONCRETE, REFER TO ARCHITECTURAL SPECIFICATIONS
- CERMANIC TILE FLOORING, REFER TO INTERIOR FINISH LEGEND

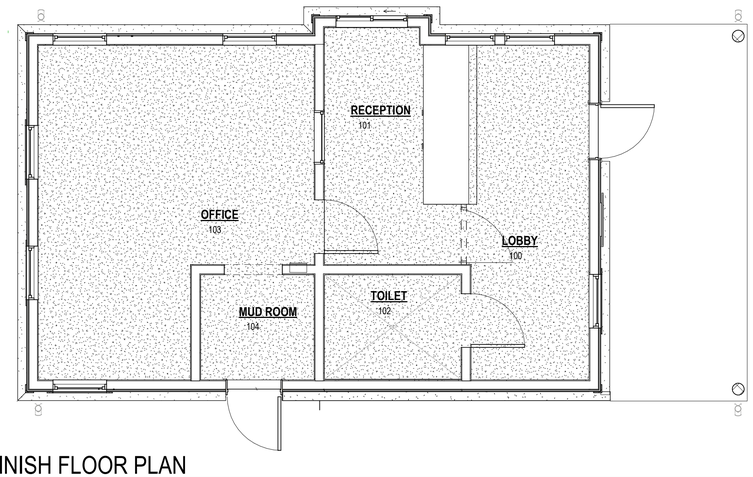
FINISH PLAN NOTES

1. ALL INTERIOR SHALL MEET THE CURRENT IBC FOR FLAME SPREAD AND SMOKE DEVELOPMENT MINIMUM STANDARDS.
2. REFER TO 'FINISH LEGEND' AND PROJECT SPECIFICATION MANUAL FOR INTERIOR FINISH CALL-OUTS AND MANUFACTURES.
3. REFER TO 'DOOR SCHEDULE' FOR DOOR AND FRAME FINISH.
4. REFER TO 'REFLECTED CEILING PLAN' FOR CEILING FINISHES.
5. REFER TO 'INTERIOR ELEVATIONS', AND 'MOUNTING HEIGHT SHEET' FOR DIMENSIONS AND PATTERNS.
6. SV1 'GRAIN' SHALL BE PERPENDICULAR TO DOOR/ ENTRY OPENING U.N.O.
7. ALL INTERIOR WALL OR CEILING FINISHES SHALL BE CLASS A OR B TO COMPLY WITH NFPA101 TABLE 10.2.2.

*BASIS OF DESIGN - ARCHITECT HAS FULL SELECTION OF COLOR

INTERIOR FINISH LEGEND

	Tag	Material	Manufacturer	Product	Notes
FLOOR	NSV-1	NON-SLIP SHEET VINYL FLOORING (FIELD)	ALTRO	SERIES RELIANCE 25 / COLOR: ARENA D2510	SEAMS: HEAT WELD, TYP. 78.74" X 68.57" X 0.080"
	HC-1	POLISHED CONCRETE	-	PER ARCHITECTURAL SPECIFICATIONS	(REFER TO SPECIFICATIONS)
	CPT-1	CARPET	TARKETT - TANDUS CENTIVA	STYLE; ACCENTUATE 04255 / COLOR; KASHA 45204, BACKING POWERBOND	(REFER TO DRAWINGS)
	CT-1	PORCELAIN TILE (FIELD)	DALTILE	DAPPLE GRAY, DK-326, 2"X2" CERAMIC MOSAIC TILE	2" x 2" (REFER TO DRAWINGS)
	GR-2	EPOXY GROUT	MAIPEI	KERAPOXY (MANUFACTURE DRAWINGS	(REFER TO DRAWINGS)
WALLS	PT-1	PAINT (FIELD)	PARKER PAINT	ULTRATECHL C122; EGGSHELL ENAMEL; COLOR: CL 2851 W FILTERED	
	PT-2	PAINT, ACCENT	PARKER PAINT	ULTRATECHL C122; EGGSHELL ENAMEL; COLOR: CL 1404D LIPSTICK	
	CT-2	PORCELAIN TILE (FIELD)	DALTILE	PEPPER WHITE, D-147, 4 1/4"X4 1/4" SEMI-GLOSS GLAZED CERAMIC TILE	(REFER TO DRAWINGS)
BASE	RB-1	RUBBER BASE	ARMSTRONG	STYLE; COVED WALL BASE / COLOR: GREY MIST, 4" BASE	(REFER TO DRAWINGS)
	CT-3	PORCELAIN TILE (COVED TRIM)	DALTILE	DESERT GRAY, D-X114, 4 1/4"X4 1/4" SEMI-GLOSS GLAZED CERAMIC TILE	(REFER TO DRAWINGS)
	WD-1	WOOD BASE	-	6" HIGH WOOD BASE; / DOUGLAS FIR LARCH	(REFER TO DRAWINGS)
CASEWORK	PL-1	PLASTIC LAMINATE (VERTICAL)	NEVAMAR	TEXTURED: RECON OAK WZ005N (REFER TO DRAWINGS)	
	PL-2	PLASTIC LAMINATE (HORIZ.)	NEVAMAR	TEXTURED: BRONZE MATRIX II MR2008T (REFER TO DRAWINGS)	
	EB-1	DRAWER & DOOR EDGE BANDING	CANPLAST	PVC EDGE BANDING: MATCH PL-1/ GROSS TL-3MM	
	EB-2	COUNTER EDGE BANDING	CANPLAST	PVC EDGE BANDING: MATCH PL-2/ GROSS TL-3MM "T" MOLDING	
CEILING	GWB-1	PAINTED GYPSUM DRYWALL	PARKER PAINT	ULTRA TECH C122 EGGSHELL ENAMEL	MATCH ADJACENT WALL
	WD-1	T & G CAR DECKING	-	-	(REFER TO DRAWINGS)
DOORS	DF-1	DOOR FRAME (HM - PAINT)	PARKER PAINT	ULTRATECH C144 SEMI-GLOSS ENAMEL, CLW1043W "FOSSIL DUST"	(REFER TO DRAWINGS)
	DF-2	SOLID CORE DOOR- PLAM & PAINT	PARKER PAINT	ULTRATECH C144 SEMI-GLOSS ENAMEL, C2851W "FILTERED"	(REFER TO DRAWINGS)
MISC.	SS-1	SOLID SURFACE (PARTIAL HEIGHT WALL TOP CAP / EQUIPP. MOUNTING BOARD)	DUPONT CORIAN	HOMOGENEOUS COUNTERTOP, "CANVAS"	(REFER TO DRAWINGS)



1 FINISH FLOOR PLAN
1/4" = 1'-0"

BID SET

Call 811 two business days before you dig

SHEET 92 OF 119

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE
				10-04-2021

ACTION	BY	DATE
DESIGNED		01/17/2025
DRAWN		01/17/2025
CHECKED (FIELD)		
CHECKED (HDQTS.)		

10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER & LOOP TRAIL

WELCOME CENTER - FINISH SCHEDULE

A-621

SCALE
AS SHOWN

PARKS FILE#

STRUCTURAL NOTES

GENERAL NOTES

These general notes are to be used as a supplement to the specifications and apply to all structural components of the building and foundation. Any discrepancies found among the drawings, the specifications, these general notes and the site conditions shall be reported to the Registered Design Professional, who shall correct such discrepancy in writing. Any work done by the Contractor after discovery of such discrepancy, but prior to correction of such discrepancy, shall be done at the Contractor's risk. The Contractor is responsible for conforming to all OSHA and WISHA safety standards. The Contractor is responsible for all bracing and shoring during construction.

CODES

All methods, materials, and workmanship shall conform to the 2021 International Building Code (IBC) as amended and adopted by the local building authority. All reference to other Codes and Standards (ACI, ASTM, etc.) shall be for the latest or most current edition available, except as designated by the governing code.

SECTIONS AND DETAILS

Sections and details showing reinforcing, bolts, framing members, and connections are intended to illustrate specific details. No attempt has been made to show all elements passing through a specific section or detail. Construction details not specifically shown on the drawings shall follow similar details of this project, as approved by the Registered Design Professional.

COORDINATION

The Contractor shall verify and/or coordinate all dimensions and conditions shown on the contract documents. Refer to Architectural, Mechanical and Electrical drawings for all dimensions not shown, for size and position of openings, breaks in structural members due to architectural treatment, location of sumps, etc. t.

DESIGN CRITERIA

Structural design has been performed per the structural provisions of the International Building Code, 2021 edition.

Dead Loads:

Roof: Dr = 20 PSF (10 PSF truss bottom chord, 10 PSF truss top chord)

Live Loads:

Snow: P_g = 35 PSF, P_f = 30.0 PSF, P_s = 30.0 PSF, C_e = 1.2, I_s = 1.0, C_t = 1.0, C_s = 1.0. For unbalanced snow loading, use 35 PSF on leeward roof and 0 PSF on windward roof.
Wind: V = 100 MPH, Exposure B, K_e = 1.0, GC_{pi} = 0.18
Seismic: I_E=1.0, S_s = 1.19g, S_1 = 0.42g, Site Class D, S_{DS} = 0.814g, S_{D1} = 0.798g, Risk Category II, Wood Sheathed Shear Walls, Base Shear V = 2.6 kips, C_s = 0.125, R = 6.5, Equivalent Lateral Force Procedure

SOIL CLASSIFICATION & BEARING

Recommendations made in the GeoEngineers Geotechnical Report dated 12/22/2020 were used for the design of the structure.

Allowable soil pressure: 3000 psf (with allowable ⅓ increase for wind/seismic loading)

SHOP DRAWINGS

Dimensions and quantities are the responsibility of the Contractor, despite review by the Registered Design Professional. Submit shop drawings to the Design Professional for the following, prior to any fabrication or construction:

- Reinforcing steel.
- Structural and miscellaneous steel including welds, welded studs and anchors.
- Pre-engineered wood joists and trusses.

CONSTRUCTION INSPECTION

The Building Official shall make structural inspections as required by the local jurisdiction. Construction inspection shall be in accordance with the following provisions of the 2021 IBC:

Section 104.4 Inspections
Section 110 Inspections
Chapter 17 Structural Tests & Special Inspections

CONSTRUCTION INSPECTION (cont.)

The Special Inspector shall be hired by the Owner to provide special inspection as indicated in the attached "Table of Special Inspections." The Special Inspector shall submit a summary of the proposed testing program for review and approval. Submit all inspection reports directly to the Building Official, Owner and/or Registered Design Professional within two (2) days after each inspection. Any discrepancies shall be brought to the Contractor's immediate attention, and if not corrected, to the Building Official and Registered Design Professional.

STRUCTURAL TESTS

Structural testing shall be in accordance with the following provisions of the 2021 IBC:

Chapter 17 Structural Tests & Special Inspections Structural Reinforced Masonry:

- Engineered masonry in nonessential facilities shall have Certificates of Compliance and f'm verified prior to construction. NO grout cube or prism testing required.

CONSTRUCTION OBSERVATION

Construction observation by the Registered Design Professional is for general conformance only and does not relieve the Contractor from any responsibility. The Design Professional shall be notified 48 hours prior to all concrete pours.

STRUCTURAL CONCRETE

All concrete shall meet the requirements of ACI-301, "Specifications For Structural Concrete For Buildings." Proportioning of ingredients for each concrete mix shall be by Method 2 or the alternate procedure given in ACI-301. Place concrete per ACI-304 and conform to ACI-604 (306) for cold weather placement and ACI-605 (305) for hot weather placement. Concrete shall be placed monolithically between construction or control joints. Protect all concrete from premature drying, excessive hot or cold temperature for seven days after placing.

MATERIALS

Cement: ASTM C150, Type I.
Coarse and fine aggregate: ASTM C33.
Water shall be clean and potable.

ADMIXTURES

Water reducing admixture: ASTM C494. Admixtures shall be used in exact accordance with manufacturer's instructions.

Synergized performance systems: admixtures to produce flowable concrete may be used subject to Registered Design Professional's approval.

Air entrainment: ASTM C260, Entrain 5% ± 1% by volume in all exposed concrete.

No other admixture is permitted unless approved by the Registered Design Professional.

STRENGTH

Twenty-eight day compressive strength shall be:
Footings and stem walls: 4000 psi 28-day, 4500 psi 56-day.
Slab on grade: 3000 psi 28-day
Slump: 5" ± 1 inch.
Maximum Water/cement ratio: 0.46

REINFORCING STEEL

Reinforcing steel shall conform to ASTM A615 or A706 Grade 60 (except No.3 stirrups may be grade 40), new billet stock, and securely tied with #16 double annealed wire. Welded Wire Fabric shall conform to ASTM 1064. Reinforcement shall be detailed in accordance with ACI 315. Reinforcement shall be placed in accordance with CRSI "Recommended Practice For Placing Reinforcing Bars".

CONCRETE COVER

The following concrete cover shall be provided for reinforcement:
- Concrete cast against and permanently exposed to earth: 3"
- Concrete exposed to earth or weather:
  No.6 to No.18 bars: 2"
  No.5 bars, W31 or D31, and smaller: 1 1/2"
- Concrete not exposed to earth or weather:
  No.14 and No.18 bars: 1 1/2"
  No.11 bars and smaller: 3/4"

CONSTRUCTION OR CONTROL JOINTS

Construction or control joint spacing in slabs shall not exceed 12'-6" on center except as directed by the Registered Design Professional.

FORMWORK AND SHORING

Follow recommended practice for concrete formwork (ACI-347). All shoring shall be the responsibility of the Contractor. Formwork supports and shoring shall be designed to provide finished concrete surfaces at all faces level, plumb, and true to the dimensions and elevations shown. Tolerances and variations shall be as specified.

FLOOR FLATNESS AND LEVELNESS

The Flatness and Levelness of the floor shall be measured per ASTM E 1155: Standard Test Method for Determining Floor Flatness and Levelness Using the F-Number System.

Specified Overall F-Number: FF = 20, FL = 15
Minimum Local F-Number: FF = 15, FL = 10

SHRINK COMPENSATING GROUT

F'c = 7,000 psi minimum in 28 days. Fill up or pack entire space under plates or in joints avoiding air pockets.

CONCRETE ANCHORS, INSERTS and EMBEDDED ITEMS

Concrete anchor bolts shall meet the quality of ASTM F1554 grade 36 bolts and shall have a standard bolt head or an equal deformity in the embedded portion. Galvanize anchor bolts in contact with pressure treated lumber per ASTM A153, Class C.

Electrical conduit in slabs shall be placed at the mid-depth of the slab at a minimum spacing of three times the conduit diameter. Conduit outside diameter shall not exceed one-third of the slab thickness.

"Wet setting" of any item shown inserted, or embedded in concrete is not allowed without prior approval of the Registered Design Professional.

POST INSTALLED CONCRETE AND MASONRY ANCHORS

Post installed anchors in concrete and masonry shall be as manufactured by Simpson Strong-Tie, Hilti, Dewalt, or as approved by Engineer of Record. Anchors shall be Code tested and approved for use in cracked concrete with approval for use in resisting seismic loads.

Threaded rods, bolts or reinforcing bars shown doweling into existing concrete shall use Hilti HIT-HY200 or HIT-RE 500 V3, Simpson AT-XP or SET-XP, Dewalt AC100+ Gold or Pure110+, or approved equal. Threaded rods, bolts or reinforcing bars shown doweling into existing CMU shall use Hilti HIT-HY270, Simpson AT-XP or SET-XP, Dewalt AC100+ Gold, or approved equal. Provide screen tubes at ungrouted CMU. The Contractor shall comply with the manufacturer's recommendations for all installation requirements including: drill bit size, embedment depth, hole cleaning, adhesive application, and special inspection requirements.

FOUNDATION NOTES

Bottom of exterior foundations shall be placed a minimum of 24" below finished grade. Backfill shall be placed and compacted in a manner that does not damage the foundation. Dowel all interior foundation walls and continuous footing steel into perimeter footings with elbow bars. Use 24" x 24" elbow bars of matching size at all bent horizontal steel.

WOOD FRAMING, LUMBER GRADING

Lumber Grading shall be in accordance with standard grading rules of West Coast Lumber No. 17. Moisture content shall be maximum 19%. Framing lumber shall be Douglas Fir-Larch #2 unless noted otherwise. Framing in contact with concrete or within 8" of earth shall be pressure treated.

Sheathing shall be APA rated, Exposure 1 or Exterior bond classification, with nominal thickness as shown on drawing.

Use hot dipped galvanized (ASTM A153) nails for all connections to pressure treated wood.

Wood framing details not shown otherwise shall be constructed to the minimum standards of the IBC and shall conform to Table 2304.10.1.

Notations on drawings relating to framing clips, joist hanger and other connecting devices refer to catalog numbers manufactured by Simpson Strong Tie Company, San Leandro CA. Install hardware with all manufacturer specified fasteners, unless otherwise noted. All Simpson Hangers used in exterior applications or in contact with pressure treated wood shall be provided with "Z-Max" galvanizing, when available, or shall be hot dipped galvanized. Hot dipped galvanized nails and bolts (ASTM 153) shall be provided for all galvanized Simpson connectors used in all exterior applications and/or attached to pressure treated lumber. Equivalent devices by other manufacturers may be substituted provided they have ICC approval for equal load capacity.

PRESSURE TREATED WOOD

All lumber and plywood required to be preservative treated shall be treated in accordance with IBC Section 2303.1.9. Each piece of treated lumber and plywood shall bear the quality mark of an approved inspection agency which maintains continuing supervision, testing and inspection over the quality of the product, as described in the IBC Standards, and shall be identified as required by these standards. Where pressure treated lumber is cut or drilled after treatment, the cut surface shall be field treated with approved preservatives by repeated brushing, dipping or soaking until the wood absorbs no more preservative.

Per Section 2304.10.5, all fasteners in contact with preservative treated wood shall be hot dipped galvanized or stainless steel. This includes anchor bolts, nails, washers, nuts, and shear wall and sheathing nailing.

STRUCTURAL STEEL

All steel shall be fabricated and erected in accordance with AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings, Latest Edition. Obtain approval of the Registered Design Professional prior to site cutting, making adjustments or performing field welds not scheduled or shown on plans or details.

MATERIALS

- Misc. Shapes and Plates: ASTM A36, Fy = 36 ksi
- Circular Tube Steel: ASTM A500 Gr. C, Fy = 46 ksi
- Framing Bolts and Rods: ASTM A307, UNO

Where called out on the plans as galvanized, shapes and plates shall be galvanized per ASTM A123, and bolts, screws, nuts, washers, and other related fasteners shall be galvanized per ASTM F2329.

VENEER

Use 1" by 12 GA. minimum sheet-metal or 3/16"-diameter wire minimum, galvanized masonry ties or equivalent per IBC 1405.6 at 16" o/c horizontal and 24" o/c vertical.

Plotted: Jan 13, 2025 - 19:48 ErikM C:\Temp\AutoCAD Temp Crap\AcPublish_26584\Welcome Bid.dwg Layout Name: S1.0

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	ECM	01/17/2025
DRAWN	ECM	01/17/2025
CHECKED		
CHECKED (HDQTS.)		

ERIK CHRISTOPHER MARTIN
STATE OF WASHINGTON
40851
REGISTERED PROFESSIONAL ENGINEER
12/09/2024

SARGENT
SARGENT ENGINEERS, INC.
320 Ronlee Lane NW • Olympia, WA 98502
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SEI Pr. No. – A20158.03
PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

WELCOME CENTER

STRUCTURAL NOTES S1.0

SCALE
N/A

PARKS FILE#

TABLE OF SPECIAL INSPECTIONS

REQUIRED VERIFICATIONS & INSPECTIONS FOR SOILS

TASK	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
	CONTINUOUS	PERIODIC		
Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		X		
Verify excavations are extended to proper depth and have reached proper material.		X		
Perform classification and testing of compacted fill materials.		X		
Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X			
Prior to placement of compacted fill, inspect subgrade and verify that site has been properly prepared.		X		

REQUIRED VERIFICATIONS & INSPECTIONS FOR CONCRETE CONSTRUCTION

TASK	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
	CONTINUOUS	PERIODIC		
Inspect reinforcement, including prestressing tendons, and verify placement.		X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
Inspect anchors cast in concrete.		X	ACI 318: 17.8.2	
Inspect anchors post-installed in hardened concrete.	X (horiz. or upwardly inclined adhesive anchors)	X (mech. anchors and all other adhesive)	ACI 318: 17.8.2	
Verify use of required design mix.		X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine temperature of concrete.	X		ASTM C172, ASTM C31, ACI 318: 26.4, 26.12	1908.10
Inspect concrete and shotcrete placement for proper application techniques.	X		ACI 318: 26.5	1908.6, 1908.7, 1908.8
Verify maintenance of specified curing temperature and techniques.		X	ACI 318: 26.5.3-26.5.5	1908.9
Inspect formwork for shape, location and dimensions of the concrete member being formed.		X	ACI 318:26.11.1.2(b)	

SHEAR WALL SCHEDULE [11]

Mark	APA Rated Sheathing [1][2][9]	Nail Size & Spacing [3][4][5]	Stud/Blocking Size @ Adjoining Panel Edges [2][6]	Block Panel Edges	Sill Plate Attachment		Capacity (plf) (seismic/wind)
					Anchor Bolt to Concrete Below [7][10]	Sill Plate Size @ Foundation [8]	
W6	15/32" one side	8d @ 6" o.c.	2x DF#2 min.	Yes	1/2"Ø @ 32" o.c.	PT 2x DF#2 min.	260/365
W4	15/32" one side	8d @ 4" o.c.	2x DF#2 min.	Yes	1/2"Ø @ 16" o.c.	PT 2x DF#2 min.	380/530

Notes:

[1] Install panels either horizontally or vertically.
[2] Where sheathing is applied on both sides of wall, panel edge joints on 2x framing shall be staggered so that joints on the opposite sides are not located on the same studs.
[3] Blocking is required at all panel edges.
[4] Provide shear wall sheathing and nailing for the entire length of the walls indicated on the plans. Ends of full heights walls are designated by exterior of the building, corridors, windows, or doorways or as designated on the plans. See plans for holdown requirements.
[5] Sheathing edge nailing is required at all holdown posts. Edge nailing may also be required to each stud used in built-up holdown posts. Refer to the holdown details for additional information.
[6] Intermediate framing to be with 2x minimum members. Field nailing @ 12" o.c.
[7] Anchor bolts shall be provided with steel plate washers 1/4"x3"x3" minimum. See detail 9/S5.1 for washer requirements. Embed anchor bolts 7" minimum into the concrete.
[8] Pressure treated material can cause excessive corrosion to the fasteners. Provide hot-dipped galvanized (electro-plating is not acceptable) nails and connector plates (framing angles, etc.) for all connectors in contact with pressure treated framing members.
[9] 7/16" APA Rated sheathing (OSB) may be used in place of 15/32" sheathing provided that all studs are spaced @ 16"o.c. and sheathing is installed horizontally.
[10] Contact the Engineer of Record for adhesive or expansion bolt alternatives to cast-in-place anchor bolts. Special inspection will be required.
[11] Splice top plate per 11/S5.0 for all shear walls. See 10/S5.0 for typical shear wall detail.

NAIL SIZE SCHEDULE

Pennyweight	Shank Diameter	Nail Length
6d	0.113"	2"
8d	0.131"	2 ½"
10d	0.148"	3"
12d	0.148"	3 ¼"
16d	0.162"	3 ½"

REBAR LAP SPLICE LENGTH (inches)

BAR SIZE	BOTTOM BAR*	TOP BAR*
#4	18	24
#5	24	30
#6	28	36
#7	41	53
#8	47	60
#9	60	78
#10	71	93

* - Top bar if more than 12" of fresh concrete cast below the bar.
Bottom bar otherwise (including vertical bars)

STANDARD ABBREVIATIONS

AB	Anchor Bolt
ALT.	Alternate
AFF	Above Finish Floor
ACP	Asphalt Concrete Paving
BOTT.	Bottom
CIP	Cast-in-Place
CMU	Concrete Masonry Units
CONC.	Concrete
CRSI	Concrete Reinforcing Steel Institute
CONT.	Continuous
DBL.	Double
DIA.	Diameter
D.B.	Dead Load
EA.	Each
EOR	Engineer of Record
EL., ELEV.	Elevation
E.W.	Each Way
FOC	Face of Concrete
FOF	Face of Fascia
FOW	Face of Wall
FT.	Foot or Feet
HORIZ.	Horizontal
ID	Inside Diameter
K.	Kips
LBS.	Pounds
LF	Linear Foot (Feet)
LL	Live Load
LP	Low Point
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
MAX.	Maximum
MFR.	Manufacturer
MIN.	Minimum
MISC.	Miscellaneous
NBSEI	Not by SEI
NIC	Not In Contract
NTS	Not To Scale
NO.	Number
O.D.	On Center
O.E.	Outside Diameter
PAV.	Paving
PLF	Pounds Per Lineal Foot
PSF	Pounds Per Square Foot
PSI	Pounds Per Square Inch
PT	Pressure Treated
R.	Radius or Riser
SEI	Sargent Engineers Inc.
SIM.	Similar
SOG	Slab on Grade
SW	Shear Wall
TOB	Top Of Beam
TOC	Top Of Concrete or Top Of Column
TOS	Top Of Steel
TOW	Top of Wall
UNO	Unless Noted Otherwise
VERT.	Vertical
WHS	Welded Headed Stud
WTS	Welded Threaded Stud
W.W.F.	Welded Wire Fabric
w/	With

STANDARD SYMBOLS
@ At
℄ Centerline
ø Diameter
Number

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12/09/2024

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WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

WELCOME CENTER

SPECIAL INSPECTIONS & TABLES
S1.1

SCALE
N/A

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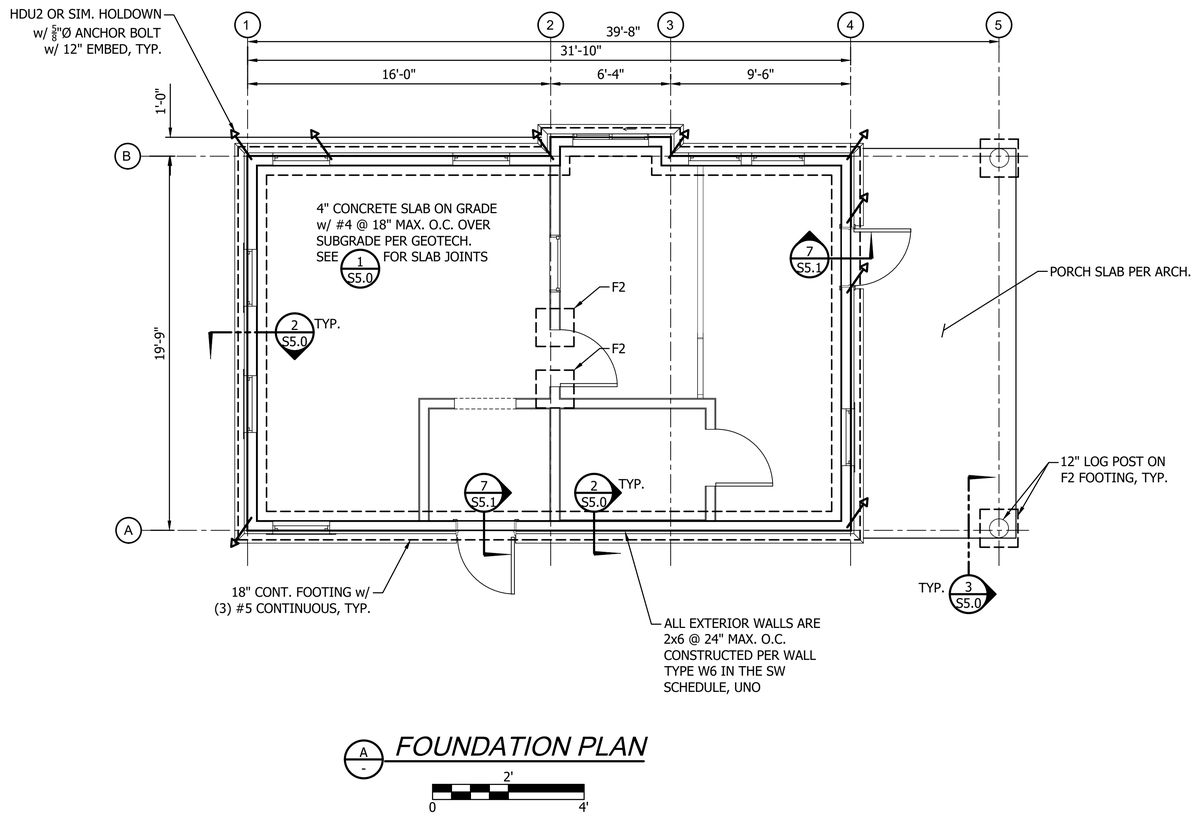
FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F2	2'x2'x0'-10"	(3) #4 EA. WAY BOTTOM



A - FOUNDATION PLAN

2' 0 4'

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PHASE 3B WELCOME CENTER AND LOOP TRAIL

WELCOME CENTER

FOUNDATION PLAN S2.1

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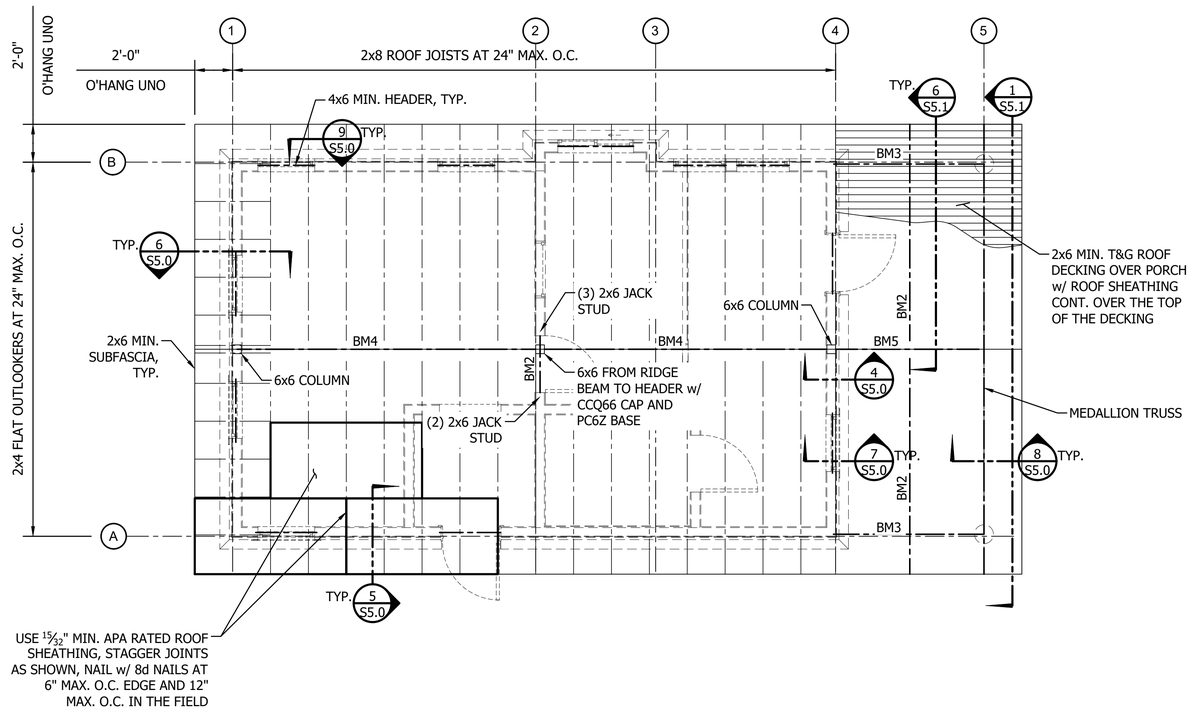
BEAM/HEADER SCHEDULE	
MARK	SIZE
BM1	4x6 MIN. DF#2 MIN.
BM2	6x10 DF#1 OR 5.5x9 MIN. GLULAM
BM3	6x8 MIN. DF#2
BM4	5.5x12 MIN. GLULAM
BM5	6x12 DF#1 OR 5.5x12 MIN. GLULAM



A
- *WELCOME CENTER ROOF FRAMING PLAN*

0 4' 8'

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ROOF FRAMING PLAN S2.2

SCALE
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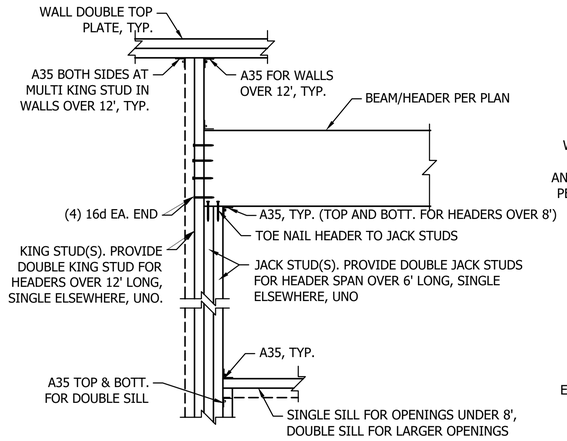
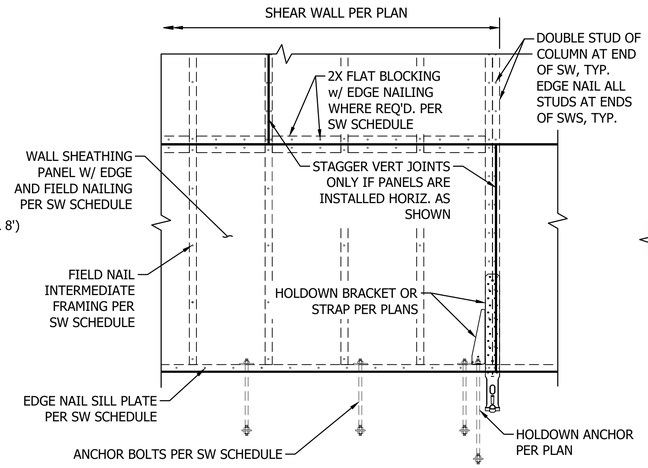


9 - *WALL FRAMING AT OPENINGS*
NOT TO SCALE



10 - *TYP. SHEAR WALL*
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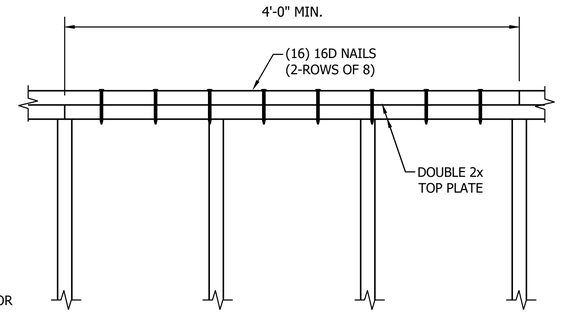

11 - *TOP PLATE SPLICE*
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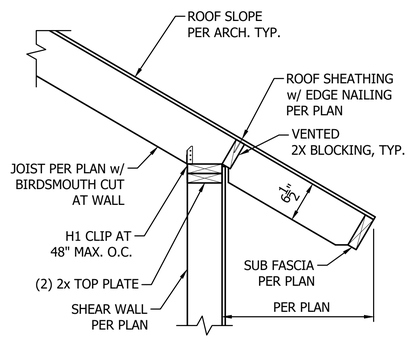

5 - *TYP. ROOF TO WALL*
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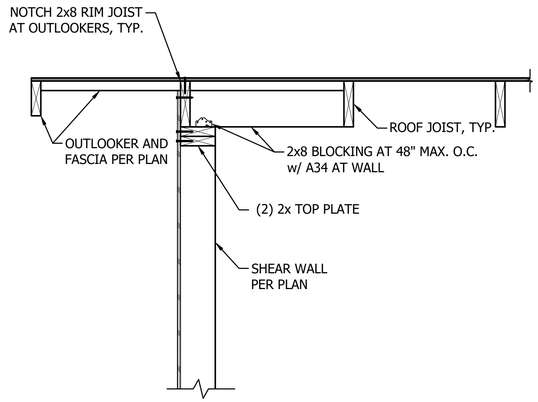

6 - *GABLE END TO WALL*
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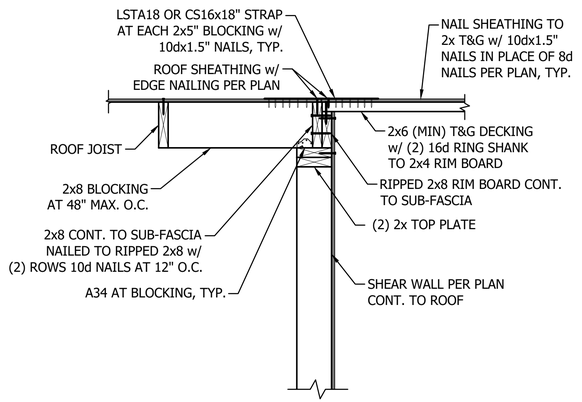

7 - *PORCH ROOF AT WALL*
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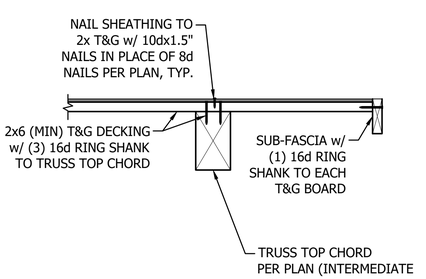
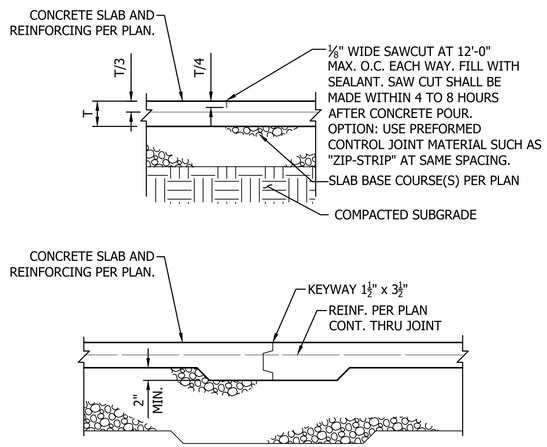


8 - *PORCH ROOF AT EXT. TRUSS*
NOT TO SCALE



1 - *SLAB CONTROL/CONSTR. JOINT*
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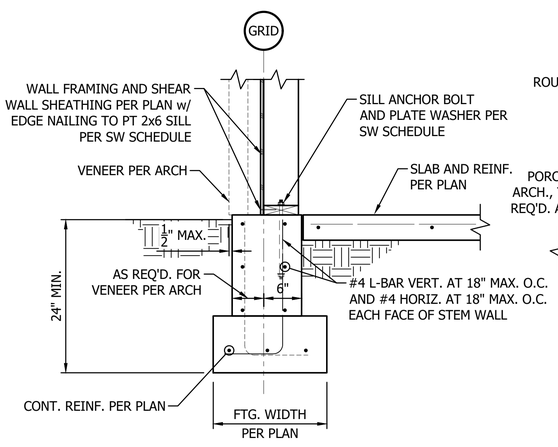

2 - *BUILDING FOUNDATION*
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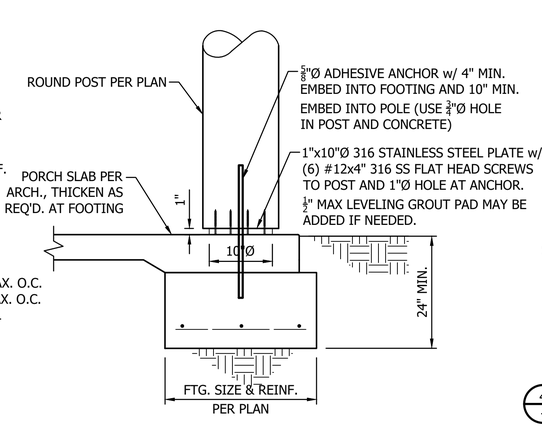

3 - *PORCH COLUMN FOOTING*
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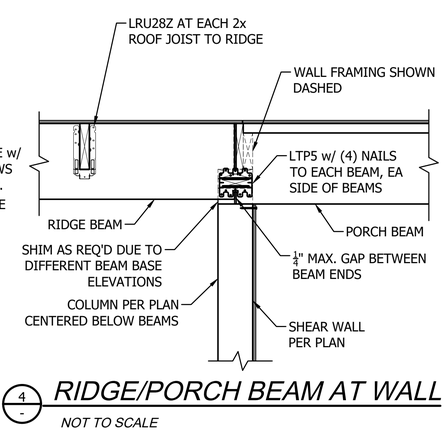

4 - *RIDGE/PORCH BEAM AT WALL*
NOT TO SCALE

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PHASE 3B WELCOME CENTER AND LOOP TRAIL

WELCOME CENTER

STRUCTURAL DETAILS S5.0

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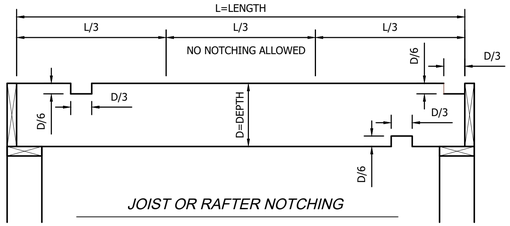
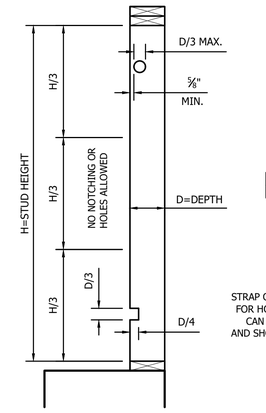
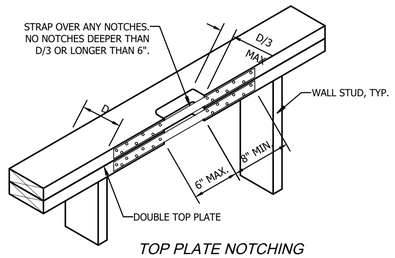
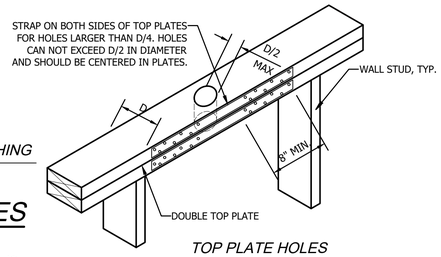




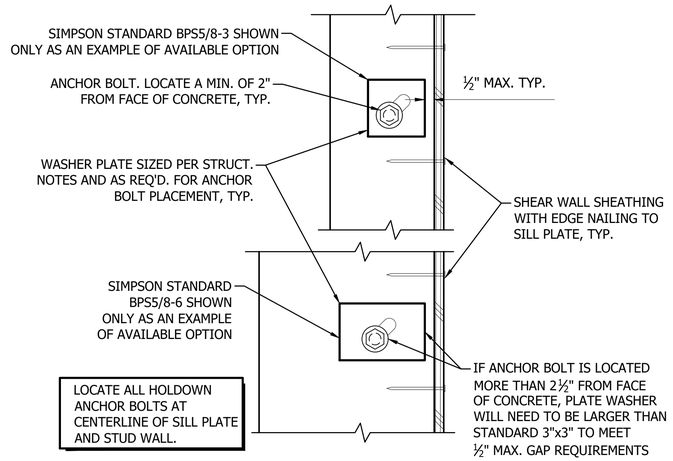




8 - WOOD FRAMING - NOTCHING AND HOLES

NOT TO SCALE

NOTE: HOLES AND NOTCHES ARE NOT ALLOW IN PRE-ENGINEERED TRUSSES AND JOISTS w/O PRIOR APPROVAL FROM THE FABRICATOR/DESIGNER.



9 - TYP. SHEAR WALL SILL ANCHOR

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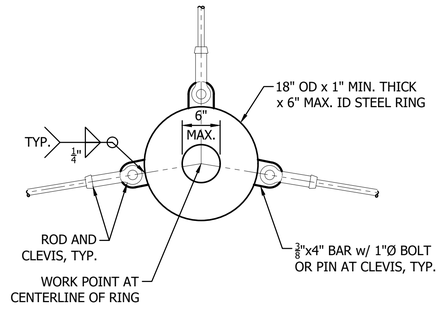

5 - TRUSS AT MEDALLION

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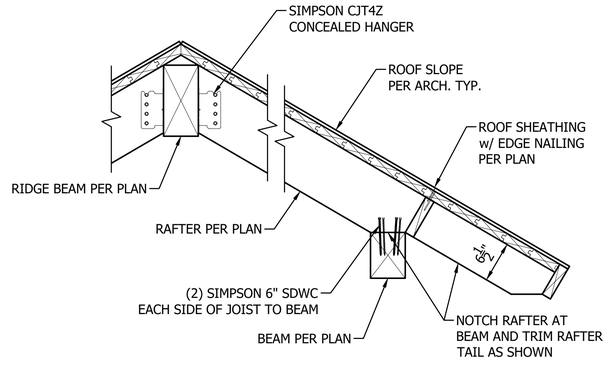
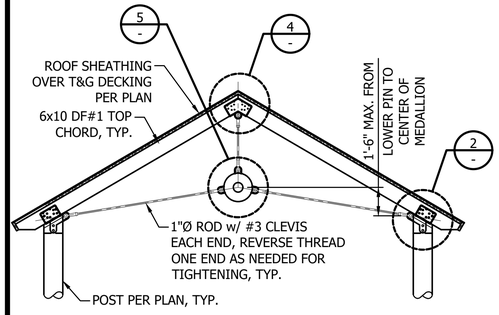


6 - PORCH RAFTER TO BEAMS

NOT TO SCALE

7 - SLAB POUR OVER AT DOORS

NOT TO SCALE



1 - PORCH TRUSS

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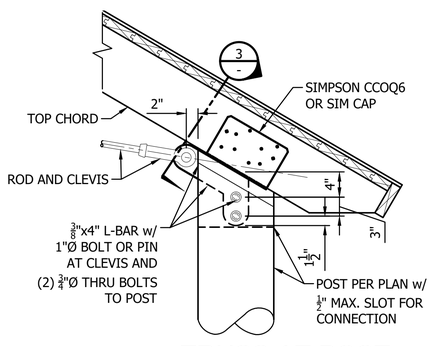
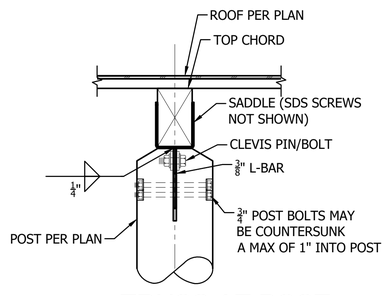


2 - TRUSS AT POST

NOT TO SCALE



3 - TRUSS AT POST

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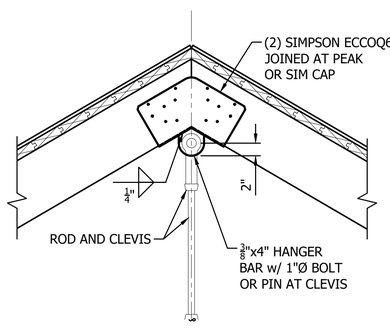

4 - TRUSS AT RIDGE

NOT TO SCALE

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NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

WELCOME CENTER

STRUCTURAL DETAILS S5.1

SCALE

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MECHANICAL GENERAL NOTES

1. UNSIZED DUCTS SHALL MATCH THE SIZE OF THE LARGEST ADJACENT DUCT THAT IS SIZED. WHERE THE ADJACENT DUCT SIZE IS NOT SHOWN, PROVIDE THE FOLLOWING SIZED DUCTS (OR EQUIVALENT RECTANGULAR).
2. WHERE DUCT SIZES ARE NOT SHOWN, SIZE DUCTS FOR A MAXIMUM VELOCITY OF 500 FT/MIN.
3. VERIFY LOCATIONS OF ITEMS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING WORK. NOTIFY ARCHITECT/OWNER OF DISCREPANCIES.
4. MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE 2018 EDITION OF THE INTERNATIONAL MECHANICAL CODE.
5. MECHANICAL EQUIPMENT 1/2 HP AND LESS SHALL HAVE STARTER/CONTROL RELAY PROVIDED BY DIVISION 23. STARTERS FOR MECHANICAL EQUIPMENT LARGER THAN 1/2 HP PROVIDED BY DIVISION 26.
6. CONTRACTOR SHALL CAREFULLY COORDINATE WORK W/ ALL OTHER TRADES, ESPECIALLY IN CEILING SPACES WHERE SPACE IS TIGHT. SHEET METAL CONTRACTOR SHALL HAVE PRIORITY OVER OTHER MECHANICAL TRADES IN CEILING SPACE WHERE CONFLICTS OCCUR.
7. ALL DUCTWORK SHOWN IS SCHEMATIC, CONTRACTOR SHALL PROVIDE ALL OFFSETS/ELBOWS AS REQ'D TO ALLOW ROUTING AROUND STRUCTURE, ELECTRICAL, & OTHER INTERFERENCES.
8. ALL DUCT WALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROVIDED WITH CLOSURE COLLARS AND BE TIGHTLY SEALED TO PREVENT THE TRANSMISSION OF NOISE.
9. DUCT PENETRATIONS OF FIRE RATED WALLS OR FLOORS SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS SO AS TO MAINTAIN THE INTEGRITY AND RATING OF THE FLOOR OR WALL.
10. SHIFT AIR INLETS/OUTLETS FROM LOCATIONS SHOWN AS REQ'D TO AVOID CONFLICTS W/STRUCTURE & OTHER ITEMS. SUCH SHIFTS SHALL MAINTAIN SYMMETRY OF AIR TERMINALS & SHALL HAVE PRIOR APPROVAL OF ARCHITECT/ENGINEER.
11. PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH DUCTS AND SPLITS IN MAIN DUCTS AND WHERE REQ'D BY BALANCERS.
12. PROVIDE PRIMARY CONDENSATE DRAINS FOR AIR CONDITIONING COILS IN ACCORDANCE WITH IMC REQUIREMENTS & AS SHOWN ON PLANS.
13. REFRIGERANT PIPING SIZES SHOWN ON DRAWINGS ARE FOR REFERENCE. PROVIDE A SHOP DRAWING WITH ALL PIPING LINE LENGTHS CALCULATED AND SIZED PER FACTORY RECOMMENDATIONS.

ENERGY CODE REQUIREMENTS

A. HVAC EQUIPMENT SHALL MEET THE MINIMUM EFFICIENCIES (EER) LISTED IN THE WASHINGTON STATE ENERGY CODE TABLES C403.3.2.

B. PROVIDE SWITCHES AT ALL EXTERIOR DOORS INDICATING OPEN/CLOSED STATUS TO HVAC CONTROL SYSTEM IN ACCORDANCE WITH WSEC C403.4.1.6. CONTROLS SHALL DISABLE MECHANICAL HEATING/COOLING OR CHANGE TEMPERATURE SETPOINTS TO 55°F HEATING & 85°F COOLING FOR ANY ZONE IN WHICH AN EXTERIOR DOOR HAS BEEN OPEN FOR MORE THAN 5 MINUTES.

C. HEAT PUMP CONTROLS TO INCLUDE 7 DAY PROGRAMMING CAPABILITY, 5° DEADBAND, OPTIMUM START AND STOP CONTROL, UNOCCUPIED SETBACK, PART LOAD COOLING, AND 45°F OUTDOOR AIR LOCKOUT. CONTROLS SHALL NOT ALLOW SIMULTANEOUS HEATING AND COOLING.

D. ECONOMIZERS ARE NOT REQUIRED. W.S.E.C. PARAGRAPH C403.3 EXCEPTION 1 (COMPLIANT DOAS SYSTEM)

E. DAMPER LOCATIONS, LEAKAGE RATE, CONTROL TYPE, AND MAX CLEARANCE TO COMPLY WITH SECTION C403.7.8 OF THE W.S.E.C.

F. INSULATE ALL DUCTS IN CONDITIONED SPACE TO R-3.3. INSULATE DUCTS IN UNCONDITIONED SPACE TO R-8. INSULATE OUTSIDE AIR DUCTS WITH R-21.

G. INSULATE REFRIGERANT GAS PIPING WITH 1" U=0.27 INSULATION.

H. ALL DUCTWORK SHOWN SHALL BE CONSTRUCTED TO 1" PRESSURE CLASSIFICATION PER SMACNA.

I. ALL DUCT WORK SHALL BE SEALED. SEAL ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS AS REQUIRED BY 603.90 OF THE INTERNATIONAL MECHANICAL CODE.

J. PROVIDE ENERGY EFFICIENT MOTORS ON THE HVAC EQUIPMENT AS REQUIRED IN WASHINGTON STATE ENERGY CODE PARAGRAPH C405.8. MOTORS LESS THAN 1HP SHALL HAVE A MINIMUM EFFICIENCY OF 70%.

K. TEST AND BALANCE EACH HVAC SYSTEM. ADJUST REGISTERS AND DAMPERS FOR AIR FLOW INDICATED ON DRAWINGS. ADJUST FAN SPEED FOR TOTAL AIR FLOW.

L. COMMISSIONING NOT REQUIRED PER WSEC SECTION C408.1. SYSTEMS ARE LESS THAN 240,000 BTU/HR COOLING AND 300,000 BTU/HR HEATING.

M. PROVIDE RECORD DRAWING, OWNERS MANUALS, BALANCING REPORT AND COMMISSIONING REPORT TO OWNER AT COMPLETION OF PROJECT. SEE C103.6 OF THE W.S.E.C.

N. PROVIDE SYSTEMS OPERATIONS TRAINING TO THE BUILDING OWNER PER WSEC PARAGRAPH C103.6.4.

HVAC LEGEND

SYMBOL	DESCRIPTION
—— C ——	CONDENSATE LINE
——RG——	REFRIGERANT GAS
——RL——	REFRIGERANT LIQUID
20/12L	DUCT (FIRST FIGURE, SIDE SHOWN)
20/12 | 20/12L	LINED DUCT – DIM. FOR NET FREE AREA EOL = END OF LINING
R (D)	RISE: R OR DROP: D ARROW IN DIRECTION OF FLOW
	DUCT SECTION (SUPPLY)
	DUCT SECTION (EXHAUST OR RETURN)
ø	ROUND DUCT
	VOLUME DAMPER (MANUAL)
M	MOTORIZED DAMPER
	FLEXIBLE CONNECTION
	FIRE DAMPER COMBINATION FIRE/SMOKE DAMPER
	FLEXIBLE DUCT
	TURNING VANES
SIZE,SYMBOL / CFM	CEILING OUTLET: WHERE 2 CFM'S SHOWN, LARGER=HIGH SPEED SMALLER = LOW SPEED CFM
SIZE,SYMBOL / CFM	CEILING INLET
SIZE,SYMBOL / CFM	WALL OUTLET (OR INLET)
T T_G T_A	THERMOSTAT G = WITH GUARD, A = AVERAGED WITH OTHER
S	SWITCH
BP	TIME CLOCK BYPASS
IT	INTERVAL TIMER
T	THERMAL WELL
	PRESSURE TEMPERATURE TEST PORT "PETE'S PLUG"
1 / M3	DETAIL IDENTIFICATION NUMBER SHEET ON WHICH DETAIL IS SHOWN
A / M3	SECTION IDENTIFICATION LETTER SHEET ON WHICH SECTION IS SHOWN

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
AAV	AUTOMATIC AIR VENT	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MBH	THOUSAND BTUH
APPROX	APPROXIMATELY	MCA	MINIMUM CIRCUIT AMPS
ARCH	ARCHITECTURAL	MECH	MECHANICAL
AUTO	AUTOMATIC	MFR	MANUFACTURER
BLDG	BUILDING	MIN	MINIMUM
B.O.D	BOTTOM OF DUCT	NO	NORMALLY OPEN
BTU	BRITISH THERMAL UNIT	NO.	NUMBER
BTUH	BRITISH THERMAL UNIT/HOUR	NTS	NOT TO SCALE
CAP	CAPACITY	OA	OUTSIDE AIR
CFM	CUBIC FEET PER MINUTE	OBD	OPPOSED BLADE DAMPER
CLG	CEILING	PD	PRESSURE DROP
COMP	COMPRESSOR	PH	PHASE
CONN	CONNECTION	P.O.C.	POINT OF CONNECTION
CONT	CONTINUE, CONTINUATION	RA	RETURN AIR
COP	COEFFICIENT OF PERFORMANCE	REF	REFERENCE
DB	DRY BULB	REQ'D	REQUIRED
DEG F°	DEGREE FAHRENHEIT	RLA	RATED LOAD AMPS
DIA, Ø	DIAMETER	RM	ROOM
DL	DOOR LOUVER	RPM	REVOLUTIONS PER MINUTE
DN	DOWN	SA	SUPPLY AIR
DWG	DRAWING	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
(E)	EXISTING		
EA	EACH		
EAT	ENTERING AIR TEMPERATURE	S.O.	SCREENED OPENING
EDB	ENTERING DRY BULB	TD	TRANSFER DUCT
EER	ENERGY EFFICIENCY RATING	TEMP	TEMPERATURE
EFF	EFFICIENCY	TG	TRANSFER GRILLE
ELEC	ELECTRICAL, ELECTRIC	TYP	TYPICAL
EOL	END OF LINING	U.C.	UNDERCUT DOOR
ESP	EXTERNAL STATIC PRESSURE	UNO	UNLESS NOTED OTHERWISE
EWB	ENTERING WET BULB	V	VOLTS, VOLTAGE
EXH	EXHAUST	VTR	VENT THROUGH ROOF
EXIST	EXISTING	W	WATT
FL	FLOOR	W/	WITH
FLA	FULL LOAD AMPS	WB	WET BULB
FLEX	FLEXIBLE	WCO	WALL CLEAN OUT
FPM	FEET PER MINUTE		
FV	FACE VELOCITY		
GAL	GALLON		
GALV.	GALVANIZED		
HP	HORSE POWER		
I.E.	INVERT ELEVATION		
IN	INCH		
INTEGR.	INTEGRAL		
KW	KILOWATT		
LAT	LEAVING AIR TEMPERATURE		
LDB	LEAVING DRY BULB		
LWB	LEAVING WET BULB		
LWT	LEAVING WATER TEMPERATURE		

SHEET INDEX

M-001 – LEGEND & NOTES
M-002 – WELCOME CENTER SCHEDULES
M-101 – WELCOME CENTER HVAC PLAN
M-501 – DETAILS

BID SET

PUBLIC IMPROVEMENTS — PERMIT # 1001200

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM _____ ROAD _____

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SHEET 99 OF 119

CAD NO.

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TED A. VEACH — STATE OF WASHINGTON — 36011 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 8-17-25

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

M-001

LEGEND & NOTES

SCALE: AS NOTED

PARKS FILE#

VRF HEAT PUMP SCHEDULE - OUTDOOR UNIT

SYMBOL	SPECIFIED MFR. & MODEL NO.	AREA SERVED	COOLING CAP.			HEATING CAP.			ELECTRICAL		WEIGHT LBS.	REMARKS
			MBH	EER	SEER	MBH 47°F	MBH 17°F	HSPF	MCA	VOLTS/PH		
HP-1A	MITSUBISHI PUZ-HA24	WELCOME CENTER	24	11.1	18.9	26	18.1	10.6	17	208/1	190	①③

NOTES:

COOLING CAPACITY IS ARI RATING: AT 80°F DB; 67°F WB INDOOR COIL EAT AND 95°F OUTDOOR COIL EAT.

HEATING CAPACITIES ARE ARI RATINGS:
HI-TEMP AT 70°F DB INDOOR EAT AND 47°F DB; 43°F WB OUTDOOR COIL EAT;
LOW-TEMP AT 70°F DB INDOOR EAT AND 17°F, 15°F WB OUTDOOR COIL EAT.

① WITH LOW AMBIENT KIT
② NOT USED.
③ UNIT CAPABLE OF OPERATING IN HEATING MODE DOWN TO -13 F

VRF HEAT PUMP SCHEDULE - INDOOR UNIT

SYMBOL	SPECIFIED MFR. & MODEL NO.	AREA SERVED	COOLING CAP.		HEATING CAP.		FAN			ELECTRICAL		WEIGHT LBS.	TYPE	REMARKS
			MBH	SEER	MBH	COP	CFM	ESP	AMP	MCA	VOLTS/PH			
HP-1B	MITSUBISHI PKA-A12	RECEPTION/ LOBBY	12.0	①	13.0	①	425	–	0.33	1.0	208/1	29	WALL-MOUNT	②③
HP-1C	MITSUBISHI PKA-A12	OFFICE	12.0	①	13.0	①	425	–	0.33	1.0	208/1	29	WALL-MOUNT	②③

NOTES:

COOLING CAPACITY IS ARI RATING: AT 80°F DB; 67°F WB INDOOR COIL EAT AND 95°F OUTDOOR COIL EAT.

HEATING CAPACITY IS ARI HI-TEMP RATING: AT 70°F DB INDOOR COIL EAT AND 47°F DB; 43°WB OUTDOOR COIL EAT.

PRELIMINARY ONLY – SIZING AND ACCUMULATOR SELECTION BY HEAT PUMP SUPPLIER. SEE SECTION 238100

① SEE OUTDOOR UNIT FOR EFFICIENCY
② INDOOR UNIT POWERED FROM OUTDOOR UNIT
③ PROVIDE WITH CONDENSATE PUMP

ENERGY RECOVERY UNIT SCHEDULE

SYMBOL	SPECIFIED MFR. AND MODEL NO.	AREA SERVED	TYPE	SUPPLY FAN		RETURN FAN		W/CFM	ENTHALPY RECOVERY EFFICIENCY	FILTERS		APPROX. UNIT WEIGHT	UNITS CONNECTION		REMARKS
				CFM	ESP	CFM	ESP			TYPE	EFF.		MCA	V/PH	
ERV-1	RENEWAIRE EV130	WELCOME CENTER	STATIC PLATE	100	0.5	100	0.5	0.78	54%	DISPOSABLE	MERV 13	50 LBS.	1.3	120/1	①

①W/INTEGRAL BACKDRAFT DAMPERS

DUCT INSULATION SCHEDULE

DUCT TYPE	DUCT LOCATION	INSULATION R-VALUE	OTHER REQUIREMENTS
SUPPLY, RETURN	NOT WITHIN CONDITIONED SPACE: ON EXTERIOR OF BUILDING, ON ROOF, IN ATTIC, IN GARAGE, IN CRAWL SPACE, IN CONCRETE, IN GROUND.	R-8	APPROVED WEATHER PROOF BARRIER
OUTSIDE AIR INTAKE, EXHAUST	WITHIN CONDITIONED SPACE, FROM AUTOMATIC SHUTOFF DAMPER TO INTERIOR INLET/OUTLET	R-8	PER THE W.S.E.C SECTION C403.10.1
OUTSIDE AIR INTAKE, EXHAUST	WITHIN CONDITIONED SPACE, FROM AUTOMATIC SHUTOFF DAMPER TO BUILDING EXTERIOR	R-16	PER THE W.S.E.C SECTION C403.10.1
SUPPLY, RETURN, OUTSIDE AIR INTAKE	NOT WITHIN CONDITIONED SPACE: IN ENCLOSED CEILING SPACE, IN WALLS.	R-6	
SUPPLY, RETURN, OUTSIDE AIR INTAKE	NOT WITHIN CONDITIONED SPACE: IN BUILDING ENVELOPE ASSEMBLY.	R-16	SEPARATE FROM BUILDING ENVELOPE WITH MINIMUM ENVELOPE INSULATION VALUE

NOTE: REQUIREMENTS APPLY TO THE DUCT TYPE LISTED, WHETHER HEATED OR MECHANICALLY COOLED. MECHANICALLY COOLED DUCTS REQUIRING INSULATION SHALL HAVE A VAPOR RETARDER, WITH A PERM RATING NOT GREATER THAN 0.5 AND ALL JOINTS SEALED.

PUBLIC IMPROVEMENTS

1001200 PERMIT #

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VENTILATION

AREA TYPE	AREA (SF)	VENTILATION REQUIREMENTS PER IMC 403.3.1	REQ'D VOLUME		OUTSIDE AIR PROVIDED	EXHAUST PROVIDED
			OUTSIDE AIR	EXHAUST		
LOBBY / RECEPTION 100/101	217	7.5 CFM/PERSON OA & 0.12 CFM/SF OA	46	–	50	–
RESTROOM 102	44	50 CFM/FIXTURE EXH.	–	50	–	100
OFFICE 103	224	5 CFM/PERSON OA & 0.06 CFM/SF OA	29	–	40	–
MUD ROOM 104	39	0.12 CFM/SF OA	6	–	10	–

AIR TERMINAL SCHEDULE

SYMBOL	TYPE	SPECIFIED MFR. & MODEL NO.	DESCRIPTION
CD	CEILING DIFFUSER	TITUS TDC	LOUVER FACE, SQUARE NECK W/ EQUALIZING GRID
CEG	CEILING EXHAUST GRILLE	TITUS 60FS	ALUMINUM CONSTRUCTION
WSG	WALL SUPPLY GRILLE	TITUS 300RS	VERTICAL BLADES 3/4" O.C. DOUBLE DEFLECTION
TG	TRANSFER GRILLE	TITUS 50F	1/2"x1/2"x1/2" CUBE CORE

AIR INLET & OUTLET SCHEDULE NOTES:

1. CEILING DIFFUSERS (CD) SHALL HAVE NO. & DIRECTION OF THROWS AS INDICATED ON PLANS. (E.G. CD-3 = 3 WAY THROW)
2. ALL AIR TERMINALS SHALL HAVE FACTORY FINISH, COLOR AS SELECTED BY ARCHITECT.
3. SEE LEGEND FOR TERMINOLOGY USED IN AIR TERMINAL CALL-OUTS ON DRAWINGS.
4. SEE ARCH. FINISH SCHEDULE FOR CEILING TYPES, PROVIDE AIR TERMINALS TO MATCH CEILING CONSTRUCTION INSTALLED IN.

SEQUENCE OF OPERATION:

VARIABLE REFRIGERANT FLOW HEAT PUMP UNITS – (HP-1)

A. HEAT PUMPS SHALL BE CONTROLLED BY FACTORY PROGRAMMABLE THERMOSTATS. THERMOSTATS SHALL PROVIDE A 7-DAY OCCUPANCY SCHEDULE, OCCUPANCY SENSOR, AND MODULATING TEMPERATURE CONTROL. ASSOCIATED ENERGY RECOVERY UNIT ERV-1 SHALL BE INTERLOCKED WITH HEAT PUMPS AND RUN CONTINUOUSLY DURING OCCUPIED PERIODS. INITIAL ROOM TEMPERATURE SETPOINTS: 70°F HEATING, 75°F COOLING.

ENERGY RECOVERY VENTILATORS – (ERV-1)

A. OCCUPIED MODE: SUPPLY AND EXHAUST FANS SHALL RUN CONTINUOUSLY. OUTDOOR AIR DAMPERS SHALL BE 100% OPEN.

B. UNOCCUPIED MODE: UNITS SHALL BE OFF, OUTDOOR AIR DAMPERS FULLY CLOSED.

C. MODE CONTROL: UNITS SHALL BE INTERLOCKED WITH HEAT PUMP CONTROLS TO RUN WHENEVER SPACE(S) SERVED ARE OCCUPIED.

BID SET

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EXPIRES 8-17-25

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WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER AND LOOP TRAIL

M-002

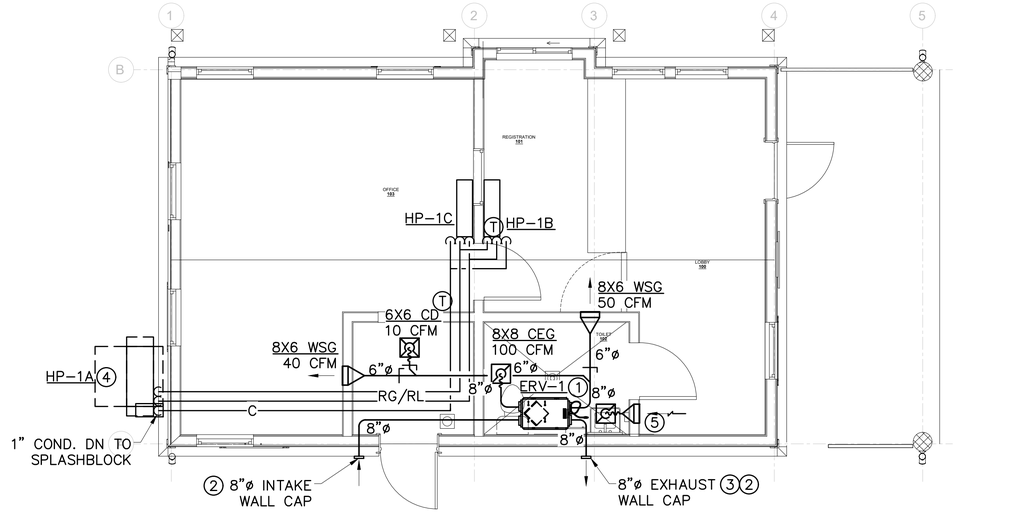
WELCOME CENTER SCHEDULES

SCALE: AS NOTED

PARKS FILE#

DRAWING NOTES:

1. CONTRACTOR SHALL COORDINATE DUCT INSTALLATION AND OFFSET DUCTS AROUND BUILDING FEATURES, INCLUDING LIGHTS, PLUMBING, CONDUIT, FIRE SPRINKLER PIPING, AND OTHERS.
2. PROVIDE 45° CHAMFERED DUCT TAPS FOR ALL RECTANGULAR BRANCH DUCTS. PROVIDE 45° CONICAL TAPS FOR ALL ROUND BRANCH DUCTS.
3. SPECIAL COORDINATION OF DUCTWORK AND DUCTWORK SHOP DRAWINGS ARE REQUIRED, SEE SPECIFICATIONS.
4. PROVIDE FLEXIBLE DUCT CONNECTIONS AT ALL DUCT CONNECTIONS TO FANS AND HVAC UNITS.
5. CONTRACTOR SHALL INVESTIGATE ALL EXISTING CONDITIONS AND REPORT ALL VARIATIONS FROM PLANS TO ENGINEER.
6. PROVIDE THERMOSTATS WHERE SHOWN AND WHERE REQUIRED FOR OPERATION OF HVAC EQUIPMENT. LOCATE THERMOSTATS AT ACCESSIBLE LOCATIONS A MAXIMUM OF 48" ABOVE FLOOR FOR ADA ACCESS.
7. LOCATE HVAC EQUIPMENT NO MORE THAN 2' ABOVE THE CEILING FOR ACCESS.
8. SEE CONTROL SEQUENCES ON SHEET M-002 AND SPECIFICATION 230900 FOR HVAC CONTROL WORK.
9. AIR BALANCING CONTRACTOR SHALL VERIFY SUPPLY AIR FLOW, RETURN AIR FLOW, AND OUTSIDE AIR QUANTITIES FOR EACH NEW HVAC UNIT. ADJUST DAMPER POSITIONS AND FAN SPEED TO ACHIEVE AIR FLOWS LISTED ON SCHEDULES.
10. PROVIDE METAL JACKET OVER PIPING INSULATION FOR ALL OUTSIDE EXPOSED PIPING.



WELCOME CENTER FIRST FLOOR MECHANICAL PLAN

SCALE: 1/4" = 1' - 0"

NORTH

KEYED NOTES:

1. SEE ERV DETAIL 3/M-501.
2. SEE DETAIL 1/M-501.
3. LOCATE EXHAUST OUTLETS MIN 3' FROM ALL OPERABLE DOORS AND WINDOWS, AND MIN 10' FROM ALL MECHANICAL INTAKES.
4. SEE OUTDOOR UNIT INSTALLATION DETAIL 4/M-501.
5. TWO 8X8 TG W/ 8" DUCT BETWEEN

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STATE OF WASHINGTON
24691
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NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

M-101
WELCOME CENTER
FIRST FLOOR HVAC
PLAN

SCALE: AS NOTED

PARKS FILE#

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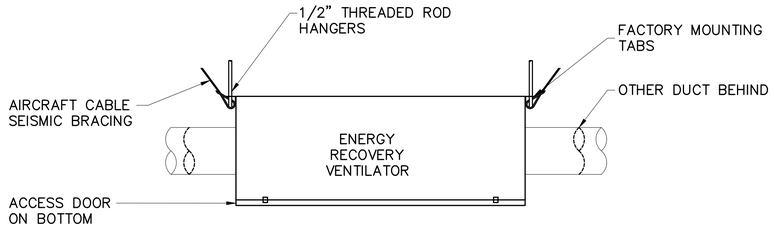
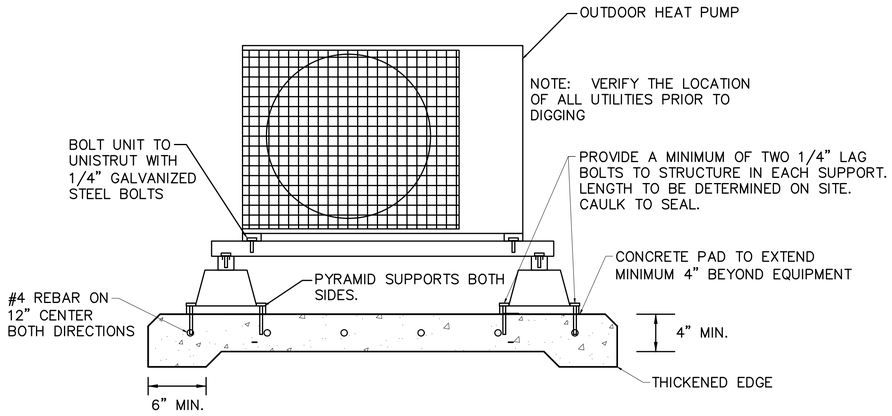


ENERGY RECOVERY VENTILATOR INSTALLATION DETAIL

3 / M-501

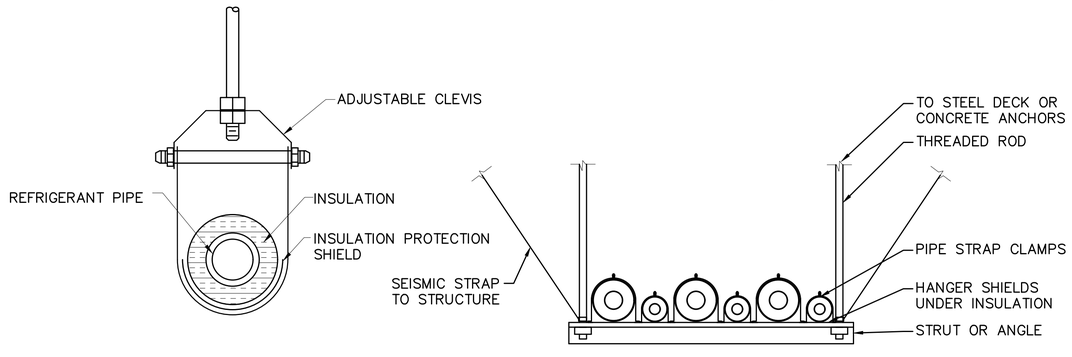
NTS



OUTDOOR UNIT INSTALLATION DETAIL

4 / M-501

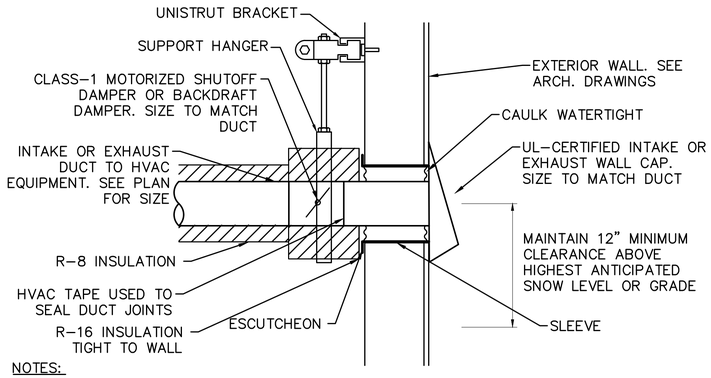
NOT TO SCALE



REFRIGERANT PIPING HANGER - TYP.

5 / M-501

NOT TO SCALE



NOTES:

1. PROVIDE BACKDRAFT DAMPERS EQUIPPED WITH GASKETED SEALS ON ALL OUTSIDE AIR INTAKES AND EXHAUST OUTLETS HAVING AIRFLOWS OF 400 CFM OR LESS. PROVIDE CLASS-1 MOTORIZED SHUTOFF DAMPERS ON ALL OUTSIDE AIR INTAKES AND EXHAUST OUTLETS WITH AIRFLOWS GREATER THAN 400 CFM.
2. INSULATION VALUES SHOWN ONLY APPLY TO DUCTS LOCATED IN CONDITIONED SPACE. WHERE LOCATED IN UNCONDITIONED SPACE, REDUCE ALL INSULATION VALUES TO R-6.

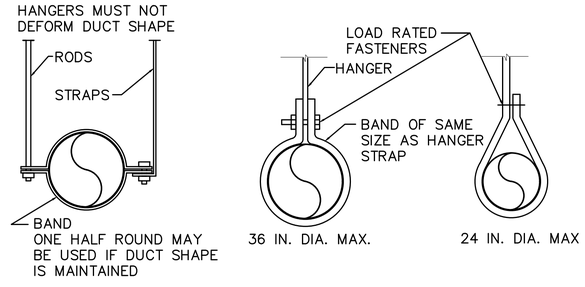
INTAKE/EXHAUST VENT PENETRATION DETAIL

1 / M-501

NOT TO SCALE

NOTES:

1. SIZE HANGER COMPONENTS AND FASTENERS PER SMACMA HVAC DUCT CONSTRUCTION STANDARDS, CHAPTER 5, THIRD EDITION.
2. WIRE HANGERS ARE NOT ACCEPTABLE
3. HANGER ATTACHMENTS TO STRUCTURE SHALL BE OF TYPES AND SIZES ALLOWED BY SMACMA HVAC DUCT CONSTRUCTION STANDARDS, THIRD EDITION.



DUCT HANGER ATTACHMENTS

2 / M-501

NTS

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NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

M-501

DETAILS

SCALE: AS NOTED

PARKS FILE#

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Ph: 253-274-5701 Proj# 2032

PLUMBING GENERAL NOTES

1. VERIFY LOCATIONS OF ITEMS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING WORK. NOTIFY ARCHITECT/OWNER OF DISCREPANCIES.
2. MECHANICAL EQUIPMENT 1/2 HP AND LESS SHALL HAVE STARTER/CONTROL RELAY PROVIDED BY DIVISION 23. STARTERS FOR MECHANICAL EQUIPMENT LARGER THAN 1/2 HP PROVIDED BY DIVISION 26.
3. CONTRACTOR SHALL CAREFULLY COORDINATE WORK W/ ALL OTHER TRADES, ESPECIALLY IN CEILING SPACES WHERE SPACE IS TIGHT. SHEET METAL CONTRACTOR SHALL HAVE PRIORITY OVER OTHER MECHANICAL TRADES IN CEILING SPACE WHERE CONFLICTS OCCUR.
4. ALL PIPING SHOWN IS SCHEMATIC, CONTRACTOR SHALL PROVIDE ALL OFFSETS/ELBOWS AS REQ'D TO ALLOW ROUTING AROUND STRUCTURE, ELECTRICAL, & OTHER INTERFERENCES.
5. UNSIZED PLUMBING PIPING SHALL MATCH THE SIZE OF THE LARGEST ADJACENT CONNECTING PIPE SIZE SHOWN, WHERE THE ADJACENT PIPE IS NOT SHOWN (OR NOT CLEAR), THE PIPE SIZE SHALL BE BASED ON THE GPM FLOWING IN THE PIPE (USE FIXTURE UNITS AND CORRESPONDING GPM PER THE UPC FOR DOMESTIC WATER SYSTEMS, USE WASTE FIXTURE UNITS & UPC TABLES FOR WASTE/VENT SYSTEM), AND A VELOCITY NO GREATER THAN 4 FEET PER SECOND. USE UPC CURVES FOR GPM/VELOCITY FOR APPROPRIATE PIPING MATERIAL INVOLVED.
6. MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE 2018 EDITION OF THE UNIFORM PLUMBING CODE, AND 2018 INTERNATIONAL MECHANICAL CODE.
7. ALL PIPE SIZES NOTED ON DRAWINGS ARE MINIMUMS.
8. SLOPE ALL WASTE PIPING AT 2% UNLESS OTHERWISE NOTED ON DRAWINGS. OBTAIN APPROVAL FROM CODE AUTHORITY BEFORE INSTALLING WASTE PIPING AT LESS THAN 2% (EVEN IF LESSER SLOPE IS INDICATED ON DRAWINGS).
9. HANGERS AND SUPPORTS FOR PIPING SHALL BE IN ACCORDANCE WITH SECTION 314 OF THE 2018 UNIFORM PLUMBING CODE.
10. PIPING PENETRATIONS OF FIRE RATED WALLS OR FLOORS SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS SO AS TO MAINTAIN THE INTEGRITY AND RATING OF THE FLOOR OR WALL.
11. FOR EXACT ROUGH-IN LOCATIONS AND ELEVATIONS OF PLUMBING FIXTURES REFER TO ARCHITECTURAL DRAWINGS.
12. PROVIDE STOPS OR ANGLE VALVES AT ALL FIXTURES.
13. PROVIDE DIELECTRIC CONNECTIONS BETWEEN DISSIMILAR METALS.
14. CLEANOUTS SHALL BE INSTALLED SO THEY ARE EASILY ACCESSIBLE.
15. PLUMBING EQUIPMENT, VALVES AND TRAP PRIMERS SHALL BE LOCATED IN EASILY ACCESSIBLE LOCATIONS. UNLESS SHOWN ON ARCHITECTURAL DRAWINGS, REQUIRED ACCESS PANELS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
16. THE PLUMBER SHALL PROVIDE AND LOCATE ALL REQUIRED FLOOR, WALL, AND FOOTING SLEEVES.

ENERGY CODE REQUIREMENTS

A. WATER HEATERS SHALL MEET THE MINIMUM EFFICIENCIES (EER) LISTED IN THE 2018 WASHINGTON STATE ENERGY CODE TABLE C404.2.

B. INSULATE DOMESTIC HOT WATER PIPING WITH U=0.27 INSULATION. UNDER 1-1/2" DIAMETER: 1" INSULATION. 1-1/2" AND OVER: 1-1/2" INSULATION.

C. COMMISSIONING IS NOT REQUIRED PER WSEC PARAGRAPH C408.1. WATER HEATING SYSTEM IS LESS THAN 200,000 BTU/HR.

D. PROVIDE RECORD DRAWING, OWNERS MANUALS, BALANCING REPORT AND COMMISSIONING REPORT TO OWNER AT COMPLETION OF PROJECT. SEE C103.6 OF THE W.S.E.C.

E. PROVIDE SYSTEMS OPERATIONS TRAINING TO THE BUILDING OWNER PER WSEC PARAGRAPH C103.6.4.

PLUMBING LEGEND

SYMBOL	DESCRIPTION
	WASTE OR SOIL (W)
	VENT (V)
	COLD WATER (CW)
	HOT WATER (HW)
	HOT WATER CIRCULATING (HWC)
F	FIRE LINE
C	CONDENSATE LINE
D	DRAIN LINE
G	GAS LINE
	ISOLATION GATE TYPE VALVE (EXCEPT WHERE INDICATED)
	GLOBE VALVE
	BALL VALVE
	TEMPERING VALVE
	ANGLE VALVE
	COMBINATION SHUT-OFF & BALANCING VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	SOLENOID VALVE
	UNION
	RELIEF VALVE OR SAFETY VALVE
	STRAINER
	CONSTANT FLOW VALVE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	HOSE BIBB
	PIPE / DUCT TURN UP
	PIPE / DUCT TURN DOWN
	PIPE / DUCT POINT OF CONNECTION
P.D.I.'A'	WATER HAMMER ARRESTOR (P.D.I. SIZE AS SHOWN)
	PRESSURE GAUGE
	THERMOMETER
T	THERMAL WELL
	PRESSURE TEMPERATURE TEST PORT "PETE'S PLUG"
1 / M3	DETAIL IDENTIFICATION NUMBER SHEET ON WHICH DETAIL IS SHOWN
A / M3	SECTION IDENTIFICATION LETTER SHEET ON WHICH SECTION IS SHOWN

ABBREV.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT/HOUR
CAP	CAPACITY
CLG	CEILING
CO	CLEANOUT
COMP	COMPRESSOR
CONN	CONNECTION
CONT	CONTINUE, CONTINUATION
COP	COEFFICIENT OF PERFORMANCE
DB	DRY BULB
DEG F°	DEGREE FAHRENHEIT
DIA, Ø	DIAMETER
DN	DOWN
DWG	DRAWING
(E)	EXISTING
EA	EACH
EFF	EFFICIENCY
ELEC	ELECTRICAL, ELECTRIC
EXIST	EXISTING
FCO	FLOOR CLEAN OUT
FL	FLOOR
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
GAL	GALLON
GALV.	GALVANIZED
HP	HORSE POWER
I.E.	INVERT ELEVATION
IN	INCH
INTEGR.	INTEGRAL
KW	KILOWATT
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTUH
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
NO	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
PD	PRESSURE DROP
P.D.I.	PLUMBING AND DRAINAGE INST.
P.O.C.	POINT OF CONNECTION
REF	REFERENCE
REQ'D	REQUIRED
RLA	RATED LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SCO	SURFACE CLEAN OUT
TEMP	TEMPERATURE
TYP	TYPICAL
UNO	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
VTR	VENT THROUGH ROOF
W	WATT
W/	WITH
WCO	WALL CLEAN OUT

SHEET INDEX

P-001 – LEGEND & NOTES
P-002 – WELCOME CENTER SCHEDULES
P-101 – WELCOME CENTER PLUMBING PLANS
P-501 – PLUMBING DETAILS

PUBLIC IMPROVEMENTS

1001200 PERMIT #

COUNTY ENGINEER _____ DATE _____

PIERCE COUNTY ORDINANCE NOs: STORM _____ ROAD _____

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CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	VCE	7/28/23
DRAWN	VCE	6/24/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

TED A. VEACH — STATE OF WASHINGTON — 24691 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 8-17-25

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

P-001

LEGEND & NOTES

BID SET

SCALE: AS NOTED

PARKS FILE#

VEACH Consulting Engineers LLC
12202 Pacific Ave. S Suite B Tacoma, WA 98444
Ph: 253-274-5701 Proj# 2032

WATER HEATER SCHEDULE

SYMBOL	SPECIFIED MFR. AND MODEL NO.	TYPE	AREA SERVED	INPUT RATING	STORAGE (GAL)	UEF	DOMESTIC HW			ELECTRICAL		REMARKS
							GPH	EWT	LWT	FLA	VOLTS/PH	
WH–3	RHEEM RTEX08	ELECTRIC TANKLESS	RESTROOM 105	8.0 KW	–	–	60	50	120	33	240/1	

MISCELLANEOUS EQUIPMENT SCHEDULE

SYMBOL	SIZE	ITEM DESCRIPTION	SPECIFIED MFR. & MODEL NO.	SERVICE	EQUIPMENT CAPACITY	ELECTRICAL		REMARKS
						AMPS	VOLTS/PH	
BFP–3	3/4"ø	REDUCED PRESSURE BACKFLOW PREVENTOR	WATTS LF009	WELCOME CENTER	6 GPM @13 PSI	–	–	

PIPING INSULATION SCHEDULE

PIPING TYPE	PIPE SIZE	INSULATION TYPE	INSULATION THICKNESS	CONDUCTIVITY RANGE
COLD WATER	ALL	FIBERGLASS	1/2"	–
COLD WATER WITHIN WALLS		NOT REQUIRED – HEAT TRACE PIPE SUBJECT TO FREEZING		–
HOT WATER	1/2" – 1–1/2"	FIBERGLASS	1"	0.22 – 0.28

- ALL PIPING INSULATION SHALL MEET THE REQUIREMENTS OF THE WASHINGTON STATE ENERGY CODE, 2018 EDITION, TABLE C 403.10.3.
- ALL PIPING INSULATION AND COVERINGS SHALL HAVE AN ASTM FLAME SPREAD RATING OF 25 OR LESS AND AN ASTM SMOKE DEVELOPED RATING OF 50 OR LESS.
- ELASTOMERIC INSULATIONS WHICH MEET THESE RATINGS MAY BE USED AS A SUBSTITUTE FOR FIBERGLASS.
- PROVIDE A VAPOR BARRIER COVERING ON ALL COLD WATER PIPING INSULATION.
- PROVIDE A COVERING FOR ALL INSULATION EXPOSED TO SIGHT WITHIN THE BUILDING.
- PROVIDE AN INCOMPRESSIBLE INSULATED PAD WITH A MINIMUM THERMAL RESISTANCE OF R–10 UNDER ALL WATER HEATERS IN UNCONDITIONED SPACES OR ON CONCRETE FLOOR.

PIPING MATERIAL SCHEDULE

PIPING	LOCATION	MATERIAL	JOINT
COLD WATER	ABOVE GROUND	COPPER TYPE L	LEAD FREE SOLDER
		COPPER TYPE L	PROPRESS MECH JOINT
HOT WATER	ABOVE GROUND	COPPER TYPE L	LEAD FREE SOLDER
		COPPER TYPE L	PROPRESS MECH JOINT
WASTE	ALL	CAST IRON	MECHANICAL JOINTS
VENT	ALL	ABS/PVC	GLUE

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	W	V	CW	HW	REMARKS
P–1C	WATER CLOSET	3"	2"	½"	–	FLOOR MOUNT HANDICAP ACCESIBLE
P–3A	LAVATORY	1 ½"	1 ½"	½"	½"	WALL MOUNT HANDICAP ACCESSIBLE
P–10A	WALL HYDRANT	–	–	½"	–	FREEZE PROOF W/VACUUM BREAKER
P–11A	FLOOR DRAIN	2"	1 ½"	–	–	W/ TRAP PRIMER

PUBLIC IMPROVEMENTS

1001200 PERMIT #

COUNTY ENGINEER _____ DATE _____

PIERCE COUNTY ORDINANCE NOs: STORM _____ ROAD _____

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VEACH Consulting Engineers LLC

PLUMBING
Waste / Water / Water Heater Sizing

Project: 2032 Nisqually State Park--Phase 3 Date: 8/2/2021

Area: Welcome Center By: Lee Shouse

Fixture	Qty	DFU Each	DFU Total	WSFU Each	WSFU Total	WSFU CW	WSFU HW
Water Closet	1	3	3	2.5	2.5	2.5	0
Lavatory	1	1	1	1	1	0.75	0.75
Floor Drain	2	0	0	0	0	0	0
Hose Bib (First)	1	0	0	2.5	2.5	2.5	0
Hose Bib (Add'tl)	0	0	0	1	0	0	0
TOTALS			4		6	6	1

WASTE PIPE SIZE PER UPC: TOTAL 4 DFU = 4 inch; SLOPE 2 %

WATER PIPE SIZE PER UPC: Total 6 WSFU = 6 gpm = 3/4 inch; CW 6 WSFU = 6 gpm = 3/4 inch; HW 1 WSFU = 1 gpm = 1/2 inch

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	VCE	7/28/23
DRAWN	VCE	6/24/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

TED A. VEACH STATE OF WASHINGTON 24601 REGISTERED PROFESSIONAL ENGINEER

EXPIRES 8-17-25

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

P-002

WELCOME CENTER SCHEDULES

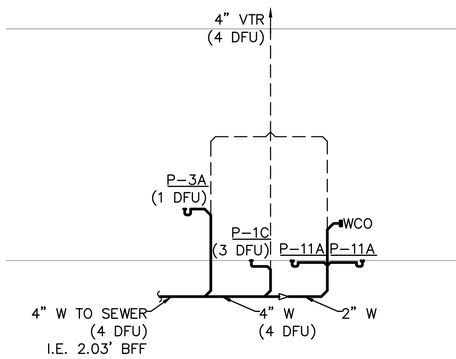
SCALE: AS NOTED

PARKS FILE#

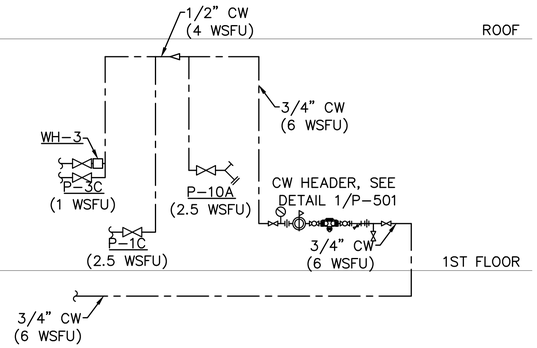
BID SET

VEACH Consulting Engineers LLC
12202 Pacific Ave. S Suite B Tacoma, WA 98444
Ph: 253-274-5701 Proj# 2032

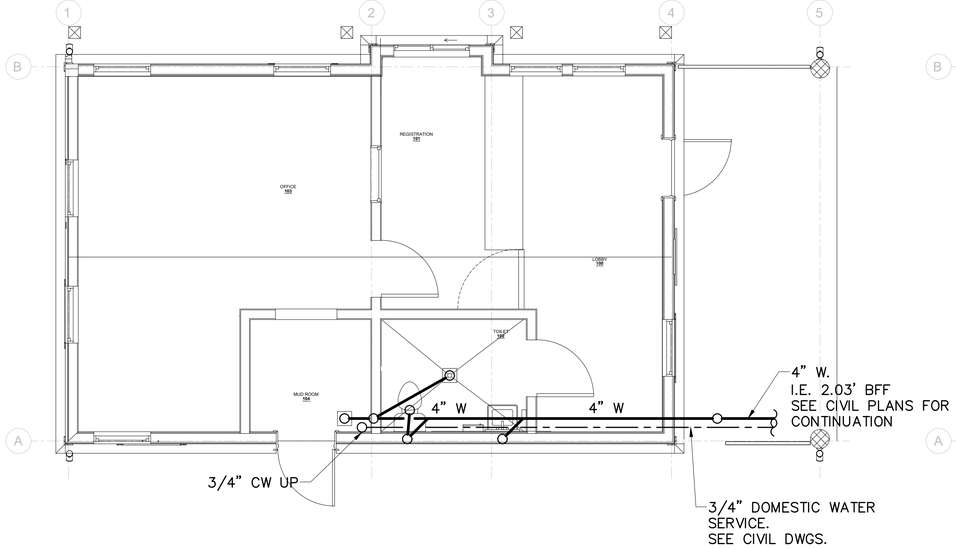
NOTE: WASTE AND VENT PIPE SIZING PER 2018 UNIFORM PLUMBING CODE CHAPTER 7. WATER PIPE SIZING PER 2018 UNIFORM PLUMBING CODE APPENDIX A.



WASTE & VENT RISER DIAGRAM

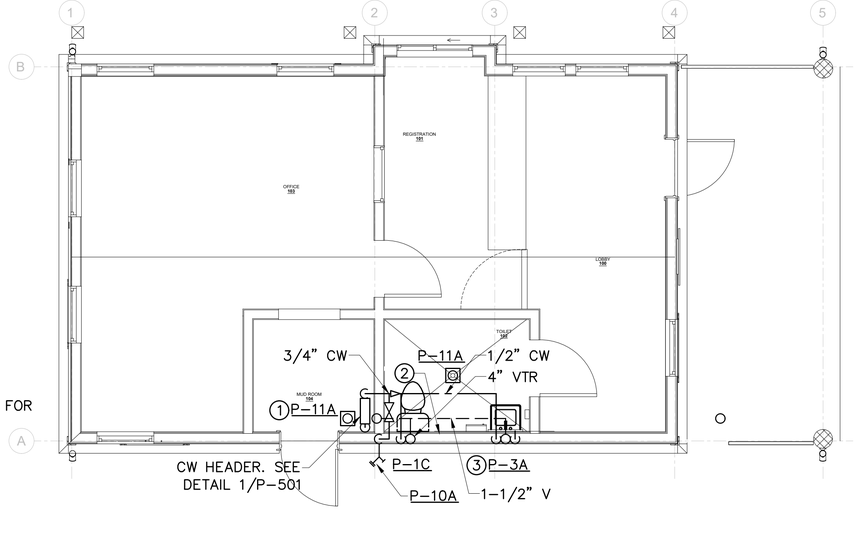


HOT & COLD WATER RISER DIAGRAM



WELCOME CENTER FOUNDATION PLUMBING PLAN

SCALE: 1/4" = 1' – 0"



WELCOME CENTER FIRST FLOOR PLUMBING PLAN

SCALE: 1/4" = 1' – 0"

DRAWING NOTES:

1. ALL PLUMBING INSTALLATION SHALL BE PER 2018 UNIFORM PLUMBING CODE.
2. PROVIDE WALL CLEANOUTS WHERE SHOWN AND AS REQUIRED TO MEET CODE.
3. FOR PIPING SIZES TO INDIVIDUAL PLUMBING FIXTURES SEE PLUMBING FIXTURE SCHEDULE.
4. OFFSET WASTE PIPING AS REQUIRED TO AVOID FOOTINGS, FOUNDATIONS, ELECTRICAL SERVICE, AND OTHER OBSTRUCTIONS. SEE STRUCTURAL AND ELECTRICAL DRAWINGS.
5. INVERT ELEVATIONS SHOWN ARE BASED ON FINISHED FLOOR ELEVATION AND 1/4" PER FOOT SLOPE.
6. ALL ISOLATION VALVES SHALL BE ACCESSIBLE. LOCATE VALVE HANDLES TO TURN FULLY WITHOUT OBSTRUCTION.

KEYED NOTES:

1. WALL CLEANOUT BELOW FIXTURE.
2. TRAP PRIMER BEHIND ACCESS DOOR. SEE DETAIL 2/P-501.
3. MOUNT WH-3 TO WALL BELOW FIXTURE.

PUBLIC IMPROVEMENTS

1001200
PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM _____ ROAD _____

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TED A. VEACH
STATE OF WASHINGTON
24691
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 8-17-25

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

P-101

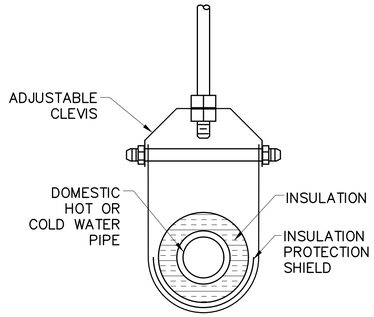
WELCOME CENTER
PLUMBING PLANS

SCALE: AS NOTED

PARKS FILE#

BID SET

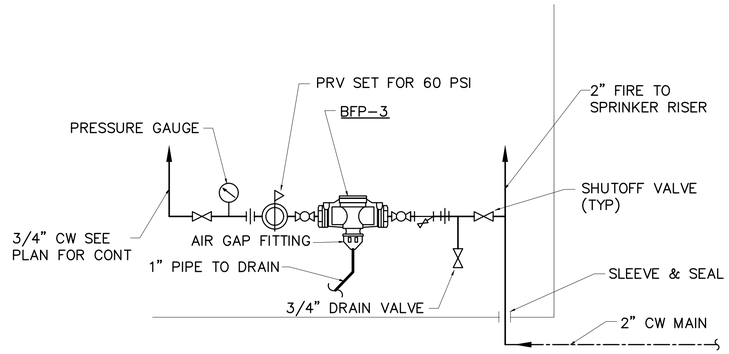
VEACH Consulting Engineers LLC
12202 Pacific Ave. S Suite B Tacoma, WA 98444
Ph: 253-274-5701 Proj# 2032



PIPE HANGER SUPPORT

NTS

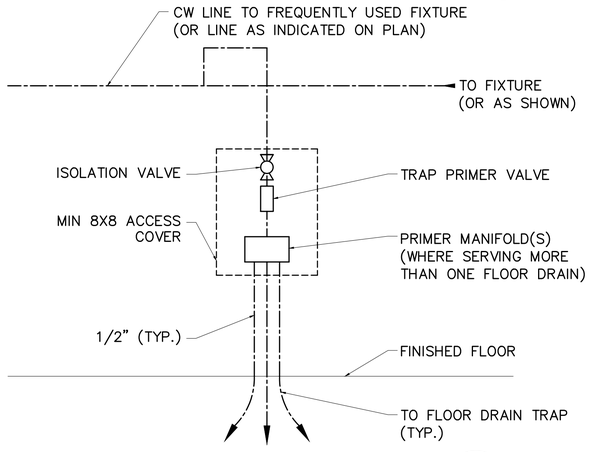
3 / P–501



COLD WATER HEADER DETAIL

NOT TO SCALE

1 / P–501



TRAP PRIMER DETAIL

NTS

2 / P–501

BID SET

VEACH Consulting Engineers LLC
12202 Pacific Ave. S Suite B Tacoma, WA 98444
Ph: 253-274-5701 Proj# 2032

PUBLIC IMPROVEMENTS

1001200 PERMIT #

COUNTY ENGINEER _____ DATE _____

PIERCE COUNTY ORDINANCE NOs: STORM _____ ROAD _____

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CHECKED (FIELD)		
CHECKED (HDQTS.)		

FRED A. VEACH — STATE OF WASHINGTON — 36011 — REGISTERED PROFESSIONAL ENGINEER

EXPIRES 8-17-25

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER
AND LOOP TRAIL

P-501

DETAILS

SCALE: AS NOTED

PARKS FILE#

PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

1. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48-HOURS IN ADVANCE OF THE START OF CONSTRUCTION. CONTACT Dennis Patterson , THE AREA INSPECTOR, AT 253-798- 2539 .
2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.
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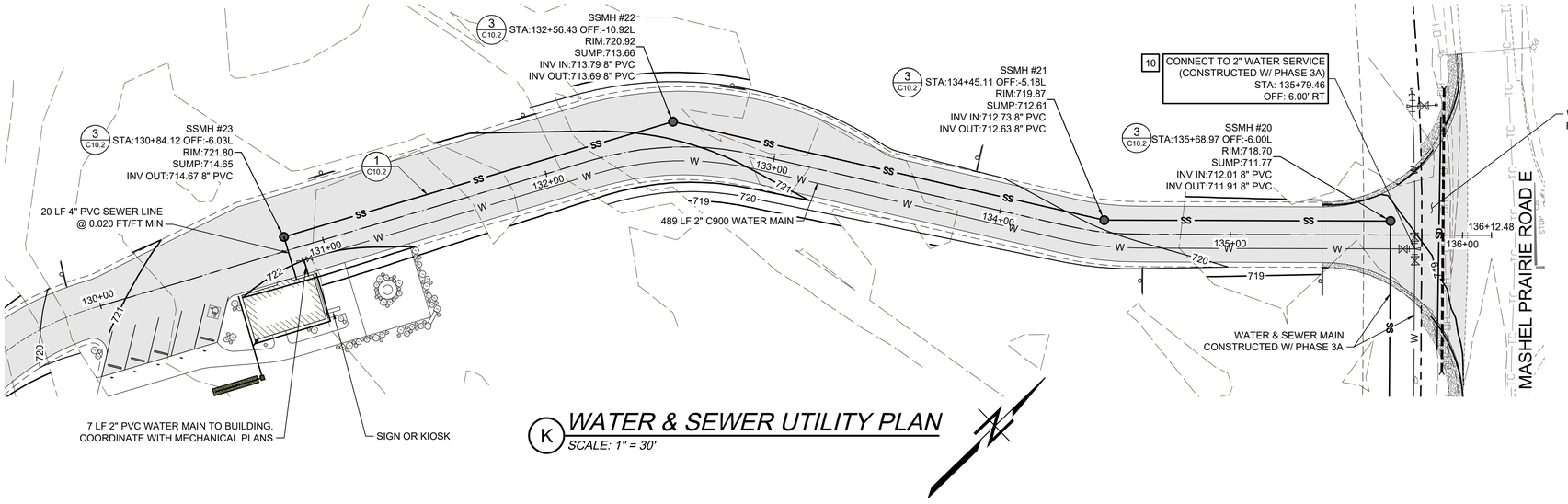
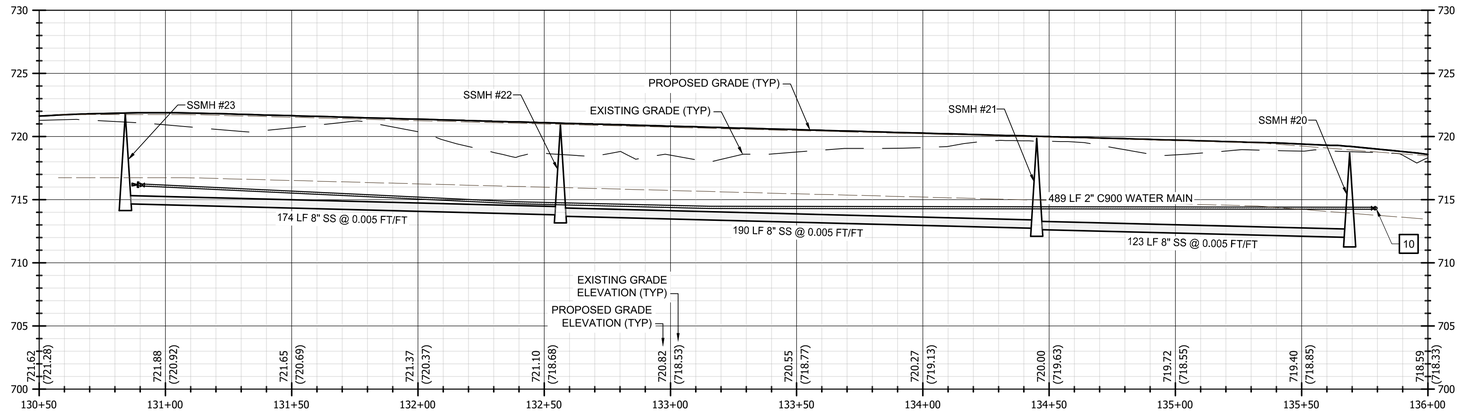
LEGEND

- GRAVEL SHOULDER
- HMA PAVEMENT
- ROADWAY CENTERLINE
- WATER LINE — W —
- WATER SERVICE LINE
- WATER TEE W/ THRUST BLOCKING
- WATER CAP W/ THRUST BLOCKING
- WATER GATE VALVE
- SEWER LINE — SS —
- SEWER MANHOLE
- SEWER CLEANOUT



K *WATER & SEWER UTILITY PLAN*
SCALE: 1" = 30'



K *WATER & SEWER UTILITY PROFILE*
HORZ. SCALE: 1" = 30' - VERT. SCALE: 1" = 6'

BID SET

811 Call 811 two business days before you dig

SHEET 107 OF 119

CAD NO.

REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEVEN DENNIS SCHMITZ — STATE OF WASHINGTON — 48228 — REGISTERED PROFESSIONAL ENGINEER
06-04-2025
REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B
WELCOME CENTER AND LOOP TRAIL

WATER & SEWER PLAN & PROFILE

C10.0

SCALE 30
0 SCALE IN FEET 60

PARKS FILE#

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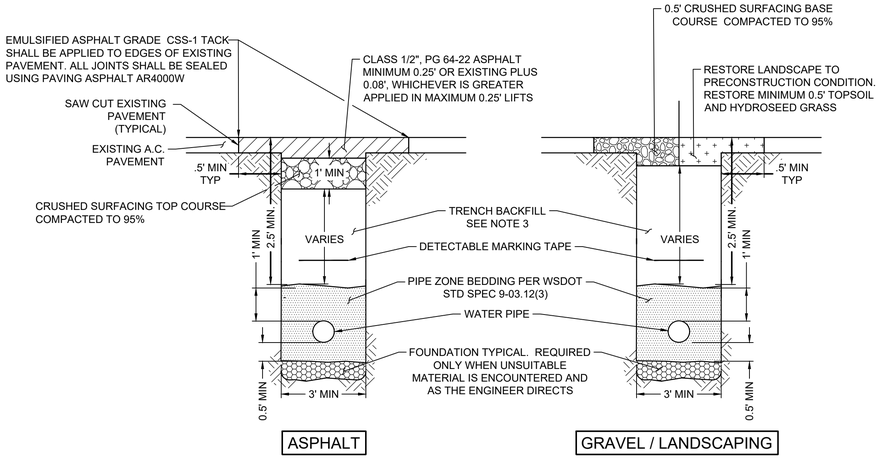
Jun-04-25 8:07am

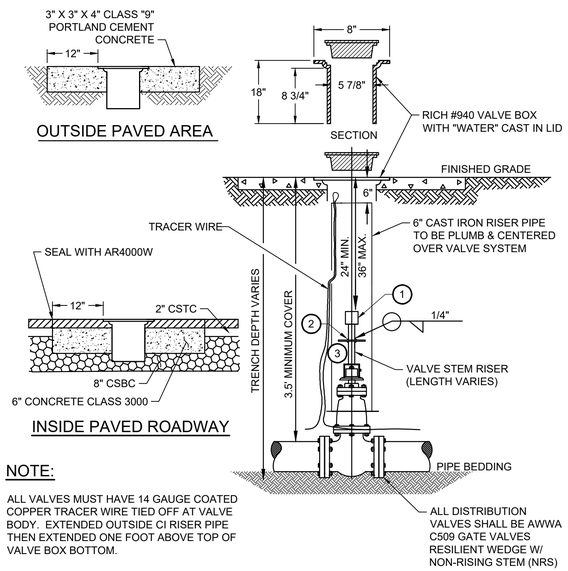


NOTES:

1. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
2. KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. NO TEMPORARY SUPPORTS, I.E. BLOCKS, WILL BE ALLOWED TO SUPPORT PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.
3. ALL WATER MAIN SHALL BE INSTALLED WITH CONTINUOUS DETECTABLE MARKING TAPE 12" TO 18" ABOVE PIPE CROWN
4. RESTORATION SHALL BE IN ACCORDANCE WITH ONE OF THE FOLLOWING:
   A. SELECT BACKFILL MEETING THE REQUIREMENTS OF THE STD SPEC 9-03.19 COMPACTED TO 95% DENSITY AND PLACED IN A MAXIMUM 6" LIFTS. WRITTEN VERIFICATION OF COMPACTION, BASED ACCEPTABLE TESTING METHODS, AND PLACEMENT OF THE BACKFILL WILL BE REQUIRED; OR
   B. NATIVE MATERIAL MAY BE USED AS BACKFILL MATERIAL IF IT COMPLIES WITH THE STANDARD SPECIFICATIONS.
5. ALL WATER MAIN SHALL BE HYDROSTATICALLY PRESSURE TESTED AND DISINFECTED MEETING THE REQUIREMENTS OF WSDOT STD SPEC 7-09.3(23).
6. SERVICE CONNECTIONS SHALL BE FLUSHED AND DISINFECTED MEETING THE REQUIREMENTS OF WSDOT STD SPEC 7-15.3(1).

1 WATER TRENCH & RESTORATION DETAILS

SCALE: NTS



NOTE:

ALL VALVES MUST HAVE 14 GAUGE COATED COPPER TRACER WIRE TIED OFF AT VALVE BODY. EXTENDED OUTSIDE CI RISER PIPE THEN EXTENDED ONE FOOT ABOVE TOP OF VALVE BOX BOTTOM.

VALVE STEM EXTENSION LEGEND

1. VALVE OPERATING NUT OR 1 7/8" X 1 7/8" X 2" HIGH GRADE STEEL WELDED TO GUIDE PLATE.
2. 3/16" THICK X 5 1/5" DIA STEEL GUIDE PLATE WELDED TO RISER SHAFT.
3. 2" X 2" X 3/16" SQUARE STRUCTURAL STEEL TUBING TO FIT OPERATING NUT. LENGTH AS REQUIRED.

NOTE:

WELD ALL AROUND, AS SPECIFIED ABOVE

2 VALVE BOX DETAIL

SCALE: NTS

NOTES:

1. HYDRANTS SHALL BE LOCATED W/ A MINIMUM 3-FOOT RADIUS UNOBSTRUCTED WORKING AREA PROVIDED AROUND ALL HYDRANTS AND SHALL NOT OBSTRUCT WALKING AREAS.
2. GATE VALVES SHALL BE RESILIENT WEDGE NRS W/ O-RING SEALS. VALVE ENDS SHALL BE MECH. JOINT BY ANSI FLANGES. VALVE SHALL CONFORM TO AWWA 509-80.

811 Call 811 two business days before you dig

BID SET

PRIVATE IMPROVEMENTS

1021435 PERMIT #

COUNTY ENGINEER — DATE

PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

1. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48-HOURS IN ADVANCE OF THE START OF CONSTRUCTION. CONTACT Dennis Patterson , THE AREA INSPECTOR, AT 253-798- 2539 .
2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.
3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEVEN DENNIS SCHMITZ — STATE OF WASHINGTON — 46228 — REGISTERED PROFESSIONAL ENGINEER

06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

WATER DETAILS

C10.1

SCALE

NTS

PARKS FILE#

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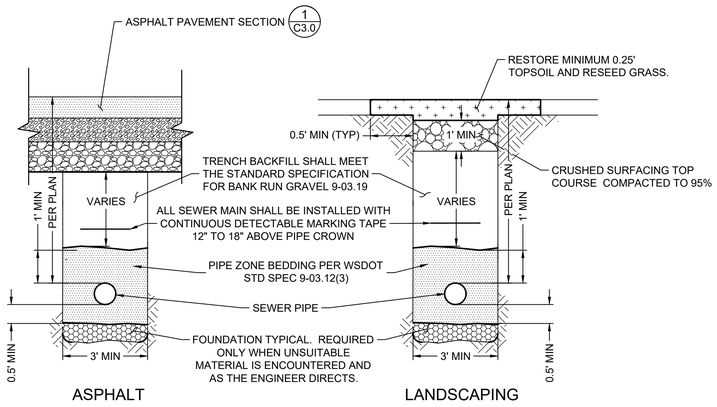


NOTES:

1. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
2. KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. NO TEMPORARY SUPPORTS, I.E. BLOCKS, WILL BE ALLOWED TO SUPPORT PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.
3. RESTORATION SHALL BE IN ACCORDANCE WITH ONE OF THE FOLLOWING:
   A. SELECT BACKFILL MEETING THE REQUIREMENTS OF THE STD SPEC 9-03.19 COMPACTED TO 95% DENSITY AND PLACED IN A MAXIMUM 6" LIFTS. WRITTEN VERIFICATION OF COMP ACTION, BASED ACCEPTABLE TESTING METHODS, AND PLACEMENT OF THE BACKFILL WILL BE REQUIRED; OR
   B. NATIVE MATERIAL MAY BE USED AS BACKFILL MATERIAL IF IT COMPLIES WITH THE STANDARD SPECIFICATIONS

1 SEWER TRENCH & RESTORATION DETAILS
SCALE: NTS

GENERAL NOTES (SEWER CONSTRUCTION):

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF CHELAN STANDARDS AND THE MOST CURRENT COPY OF THE WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION. IN CASES OF CONFLICT, THE MOST STRINGENT STANDARD SHALL APPLY.
2. THE CONTRACTOR SHALL BE IN COMPLIANCE WITH ALL SAFETY STANDARDS AND REQUIREMENTS AS SET FORTH BY OSHA, WISHA AND THE WASHINGTON STATE DEPARTMENT OF LABOR AND INDUSTRIES.
3. SEWER PIPE SHALL BE PVC CONFORMING WITH THE PROVISIONS OF ASTM D-3034, SDR35 UNLESS OTHERWISE SPECIFIED. RUBBER GASKETS SHALL CONFORM WITH ASTM 3034.
4. ALL JOINTS FOR SEWERS OR PRESSURE MAINS SHALL BE OF THE RUBBER GASKET TYPE.
5. MANHOLES SHALL BE PRECAST, 48" I.D., AND SHALL GENERALLY CONFORM TO ASTM SPECIFICATION FOR EQUIVALENT SIZE REINFORCED CONCRETE SEWER PIPE.
6. GASKETED JOINT ASSEMBLY SHALL CONFORM TO ASTM D3139 WITH GASKETS CONFORMING TO ASTM F477.
7. VALVING SHALL BE INSTALLED AT ALL INTERSECTIONS, ON EACH END OF EASEMENT LINES, AND IN LINE AT MAXIMUM SPACING OF 600 FEET.
8. MINIMUM COVER FOR ALL SEWER MAINS SHALL BE FOUR (4) FEET TO TOP OF PIPE UNLESS OTHERWISE APPROVED.
9. SEWER LINES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE REQUIREMENTS WITH CITY OF CHELAN STANDARDS.

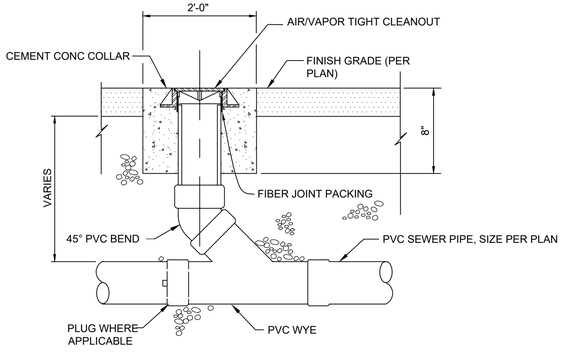
PRIVATE IMPROVEMENTS

1021435
PERMIT #

COUNTY ENGINEER — DATE

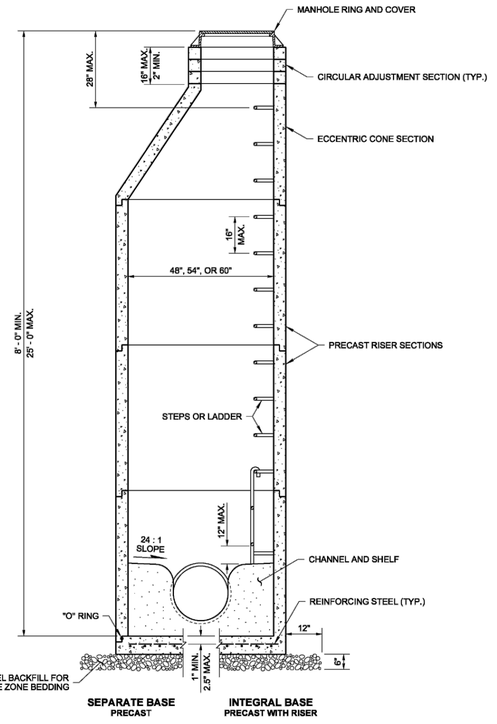
PIERCE COUNTY ORDINANCE NOs: STORM 2021-45 ROAD 2022-75

1. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48-HOURS IN ADVANCE OF THE START OF CONSTRUCTION. CONTACT Dennis Patterson , THE AREA INSPECTOR, AT 253-798- 2539 .
2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.
3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.



2 SEWER CLEANOUT
SCALE: NTS

DRAWN BY: LISA CYFORD



NOTES

1. Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum.
2. For pipe allowances, see **Standard Plan B-10.20.**

MANHOLE DIMENSION TABLE

DIAM.	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"

CASEY M. KRAMER — STATE OF WASHINGTON — 14535 — REGISTERED PROFESSIONAL ENGINEER

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MANHOLE TYPE 1

STANDARD PLAN B-15.20-01

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakotich III — STATE DESIGN ENGINEER — *02-07-12* — DATE

Washington State Department of Transportation

3 MANHOLE - TYPE 1
SCALE: NTS

BID SET

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SHEET 109 OF 119

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STEPHEN DENNIS SCHMITZ — STATE OF WASHINGTON — 46228 — REGISTERED PROFESSIONAL ENGINEER
06-04-2025

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B WELCOME CENTER AND LOOP TRAIL

SEWER DETAILS

C10.2

SCALE
NTS

PARKS FILE#

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ELECTRICAL SYMBOLS LEGEND

A / B	DETAIL/SECTION IDENTIFICATION: A = DETAIL/SECTION LETTER, B = SHEET NUMBER WHERE DETAIL/SECTION IS DRAWN.
A / B	EQUIPMENT CONNECTION CALLOUT. A,B EQUAL EQUIPMENT IDENTIFICATION ON MECHANICAL EQUIPMENT CONNECTION SCHEDULES. VERIFY EXACT EQUIPMENT REQUIREMENTS ON APPROVED SHOP DRAWING EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN. DO NO ROUGH-IN FOR EQUIPMENT PRIOR TO REVIEW OF SUBMITTALS. REPORT ANY DIFFERENCES IN REQUIREMENTS TO ENGINEER IN WRITING.
	CONDUIT CONCEALED. HASH MARKS INDICATE NUMBER OF #12 CONDUCTORS IN CODE SIZE CONDUIT. NO HASH MARKS INDICATES 2-#12 CONDUCTORS PLUS GROUND IN 3/4" CONDUIT, LONG HASH MARKS INDICATES NEUTRAL CONDUCTOR. INDICATES GROUND CONDUCTOR.
	CONDUIT STUBBED AND CAPPED BELOW GRADE.
	A-1,3 ADJACENT TO ARROW INDICATES HOMERUN OF CONDUCTORS IN CONDUIT FOR CIRCUITS 1 AND 3 TO PANEL "A".
	LED EXIT LIGHT WITH BATTERY, UNIVERSAL MOUNTING.
	LED FLOODLIGHT WITH BATTERY.
	LED LIGHT FIXTURE, SURFACE MOUNTED ON CEILING.
	LED LIGHT FIXTURE, WITH EMERGENCY BATTERY PACK.
	LED LIGHT FIXTURE, WALL MOUNTED.
	LED LIGHT FIXTURE WALL MOUNT.
	LED SITE LIGHT FIXTURE AND POLE.
A1	LIGHT FIXTURE TYPE. A1 = SPECIFIC LIGHTING FIXTURE REFERENCED ON LIGHTING FIXTURE SCHEDULE.
J	JUNCTION BOX.
	POWER PANEL
	DUPLEX RECEPTACLE 20A, 125 VOLT WALL MOUNTED AT 18 INCHES AFF OR AS NOTED. G = GROUND FAULT INTERRUPTING, C = CEILING MOUNTED.
	DUPLEX RECEPTACLE 20A, 125 VOLT WALL MOUNTED HORIZONTALLY 2" ABOVE BENCH OR COUNTERTOP BACKSPLASH TO THE BOTTOM OF THE RECEPTACLE COVERPLATE.
	FOURPLEX RECEPTACLE 20A, 125 VOLT, WALL MOUNTED AT 18 INCHES AFF OR AS NOTED.
	SPECIAL RECEPTACLE. AMPERAGE AND VOLTAGE AS SHOWN.
V OMX	OHOP MUTUAL POWER VAULT
V CVX	COMMUNICATION VAULT. CVX = IDENTIFICATION.
	SECURITY CAMERA. PROVIDE ONE (1)CAT 6 CABLE BACK TO MUD ROOM 104.

SY	AUTOMATIC/MANUAL OCCUPANCY SENSOR AND SINGLE POLE TOGGLE SWITCH. WATT STOPPER DW-100 OR EQUAL. SWITCH SHALL BE PROGRAMMED FOR MANUAL ON, AUTOMATIC OFF.
SM	WIRELESS LIGHT SWITCH, SINGLE POLE, SUBSCRIPTS; 3 = THREE WAY, D = DIMMER CONTROL, a, b, c, ETC = NUMBER OF SWITCHES AT THE LOCATION AND SPECIFIC FIXTURES CONTROLLED. MOUNT AT 42 INCHES AFF.
OS	WIRELESS AUTOMATIC OCCUPANCY SENSOR DEVICE.
PS	WIRELESS DAYLIGHT PHOTOSENSOR
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH WITH FUSES.
Sm	MOTOR RATED TOGGLE SWITCH WITH OVERLOAD HEATER(S), SIZE PER NEC AND MANUFACTURERS REQUIREMENTS.
T	OHOP UTILITY TRANSFORMER
	GROUND PER NEC.
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION. TPS3-X-11-15-D2, SIEMENS OR EQUAL. "X" = VOLTAGE/ PHASE (VARIES), SEE POWER RISER DIAGRAM AND/OR PANEL SCHEDULES FOR VOLTAGE AND PHASE REQUIREMENTS.
WP	WEATHERPROOF (NEMA 3R IN USE)
UGEP	UNDERGROUND ELECTRICAL OHOP MUTUAL 12.47KV PRIMARY.
UGC	UNDERGROUND COMMUNICATION.
UGEP/C	UNDERGROUND ELECTRICAL OHOP MUTUAL 12.47KV PRIMARY, 600V SECONDARY, AND COMMUNICATIONS IN JOINT UTILITY TRENCH
S	SMOKE DETECTOR (PHOTOELECTRIC).
H	HEAT DETECTOR
F	MANUAL FIRE ALARM PULL STATION. WALL MOUNT AT 42 INCHES AFF.
F XX	FIRE ALARM HORN/ADA STROBE. WALL MOUNT AT 80 INCHES AFF. SUBSCRIPT INDICATES CANDELA LEVEL.
F XX	FIRE ALARM MINI ADA STROBE, WALL MOUNT AT 80 INCHES AFF. SUBSCRIPT INDICATES CANDELA LEVEL.
X	FLUSH MOUNTED TELEPHONE/DATA OUTLET, MOUNT AT 18" AFF. PROVIDE 4" SQUARE BOX WITH 1" CONDUIT AND PULL STRING TO ACCESSIBLE CEILING SPACE. SUBSCRIPT X = QUANTITY OF CAT 6 DATA/TELEPHONE JACKS AND CABLES BACK TO MUD ROOM 104 PER LOCATION.
WAP	WIRELESS ACCESS POINT. PROVIDE ONE (1)CAT 6 CABLE BACK TO MUD ROOM 104.

BID SET

CROSS ENGINEERS, INC
923 MLK Jr. Way
Tacoma, WA 98405
info@crossengineers.com
Phone: (253) 759-0118
Job Number: 20-119

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CAD NO.

REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	SJK	6/23/25
DRAWN	JAE	6/23/25
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CHECKED (HDQTS.)		

STEVEN L. HUBBS — STATE OF WASHINGTON — 0029066 — REGISTERED PROFESSIONAL ENGINEER
6/23/25

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B- WELCOME CENTER AND LOOP TRAIL

ELECTRICAL SYMBOLS LEGEND
E001

SCALE
AS NOTED

PARKS FILE#

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	LAMPS	WATTS	MOUNTING
A1	PINNACLE EX4DI-A-BW-830-830-8'-AC- XX-U-FSD-1-O-S	LED	65	SUSPENDED
A1X	SAME AS TYPE A1 WITH EMERGENCY BATTERY PACK			
A2	OXYGEN 3-537-24	LED	14	WALL
B1	HALO SMD6R-12-9S-WH-E	LED	15	SURFACE
P1	LUMARK PRV-PA1B-730-U-T2R-SA- BZ-MS/DIM-L20-HSS	LED	74	POLE
W1	PERFORMANCE IN LIGHTING M30-26-T3-BK-3K-UNV-0-10V-FRST	LED	26	WALL
W2	PERFORMANCE IN LIGHTING Q30-B-35-BK-T1-T1-3K-UNV-0-10V	LED	35	WALL
X1	SURE-LITES LPX7WSPWG511	INCLUDED	3	UNIVERSAL
X2	SURE-LITES SEL50SDSQ	INCLUDED	3	WALL

GENERAL NOTES:

1. DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL, LANDSCAPE, CIVIL AND STRUCTURAL DRAWINGS AND FIELD MEASUREMENTS TO COORDINATE THE EXACT LOCATION OF ALL ELECTRICAL EQUIPMENT, STRUCTURES, VAULTS, CONDUITS, TRENCHED ETC. NOTIFY ENGINEER IN THE EVENT OF A CONFLICT.

2. SEE DRAWING E301 FOR CONDUIT AND CONDUCTOR SCHEDULE. NOT ALL CONDUIT AND CONDUCTORS ARE INDICATED ON THE SCHEDULES. SEE SITE PLANS, PARTIAL PLANS AND DETAILS FOR ADDITIONAL CONDUIT AND CONDUCTOR REQUIREMENTS. METALLIC CONDUITS, COUPLINGS AND JOINTS OF METALLIC CONDUITS EMBEDDED IN CONCRETE, EARTH OR ASPHALT SHALL BE 1/2 LAP TAPED 12" PAST JOINTS OR OTHERWISE MADE WATERTIGHT TO PREVENT INTRUSION OF MORTAR, WATER OR OTHER MATERIALS. TEST CONDUIT FOR ABSENCE OF ANY BLOCKAGE PRIOR TO AND WITHIN 24 HOURS OF COMPLETING A CONCRETE POUR OR ASPHALT PAVING.

3. CONTRACTOR SHALL INCLUDE IN THE BID ALL COSTS TO HAVE A DEPARTMENT OF LABOR AND INDUSTRIES APPROVED FIRM TO FIELD EVALUATE THE INSTALLATION, SAFETY, AND COMPLIANCE REQUIRED PER LABOR AND INDUSTRIES ELECTRICAL INSPECTION AND/OR PER W.A.C. 296-46B-901 FOR ANY EQUIPMENT SPECIFIED OR FURNISHED NOT UL LABELED.

4. THERE IS ADDITIONAL ELECTRICAL WORK SHOWN ON THE ARCHITECTURAL, LANDSCAPE, CIVIL AND STRUCTURAL DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS. EXTENSIVE COORDINATION IS REQUIRED BY THE CONTRACTOR WITH GOVERNING AUTHORITIES, OTHER CONTRACTORS WORKING ON SITE. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATION SECTIONS AND INCLUDE COSTS FOR ALL COORDINATION AND RELATED WORK IN THE BID.

5. CONTRACTOR SHALL PROVIDE PULL TAPE IN ALL CONDUIT RUNS WITH POWER CONDUCTORS, COMMUNICATIONS CABLES OR EMPTY. PROVIDE COMPLETE LOOP OF ALL POWER AND COMMUNICATIONS CABLES AROUND ALL FOUR(4) WALLS OF VAULTS, HANDHOLES PRIOR TO CABLE EXITING. FOR POWER CONDUCTORS UPSIZED TO REDUCE VOLTAGE DROP AND LARGER THAN TERMINATION LUGS CONTRACTOR SHALL PROVIDE TERMINAL PINS (FINGER SPLICES) ON WIRE ENDS TO ACCOMMODATE TERMINATION.

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STEVEN L. HUBBS
STATE OF WASHINGTON
0029066
REGISTERED
PROFESSIONAL ENGINEER
6/23/25

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

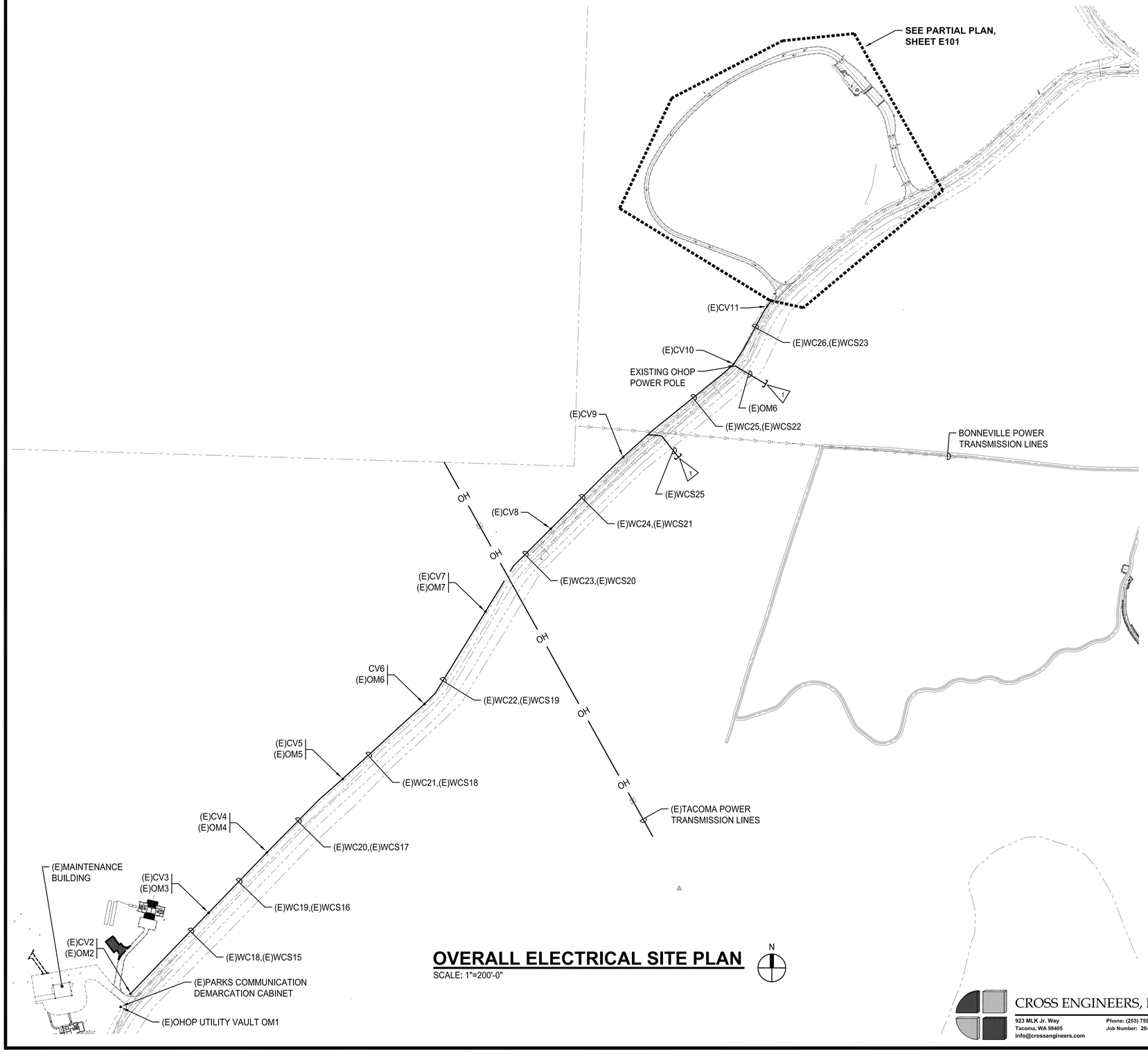
NISQUALLY STATE PARK

PHASE 3B- WELCOME CENTER AND LOOP TRAIL

LIGHTING FIXTURE SCHEDULE/ GENERAL NOTES E002

SCALE
AS NOTED

PARKS FILE#



OVERALL ELECTRICAL SITE PLAN

SCALE: 1"=200'-0"

N

ELECTRICAL NOTES:

1. EXISTING STUB AND CAP 15'-0" PAST EDGE OF ROADWAY FOR FUTURE EXTENSION.

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STEVEN L. HUBBS, STATE OF WASHINGTON, 0029066, REGISTERED PROFESSIONAL ENGINEER
6/23/25

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WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B- WELCOME CENTER AND LOOP TRAIL

OVERALL ELECTRICAL SITE PLAN E100

SCALE: AS NOTED

PARKS FILE#

CROSS ENGINEERS, INC
923 MLK Jr. Way
Tacoma, WA 98405
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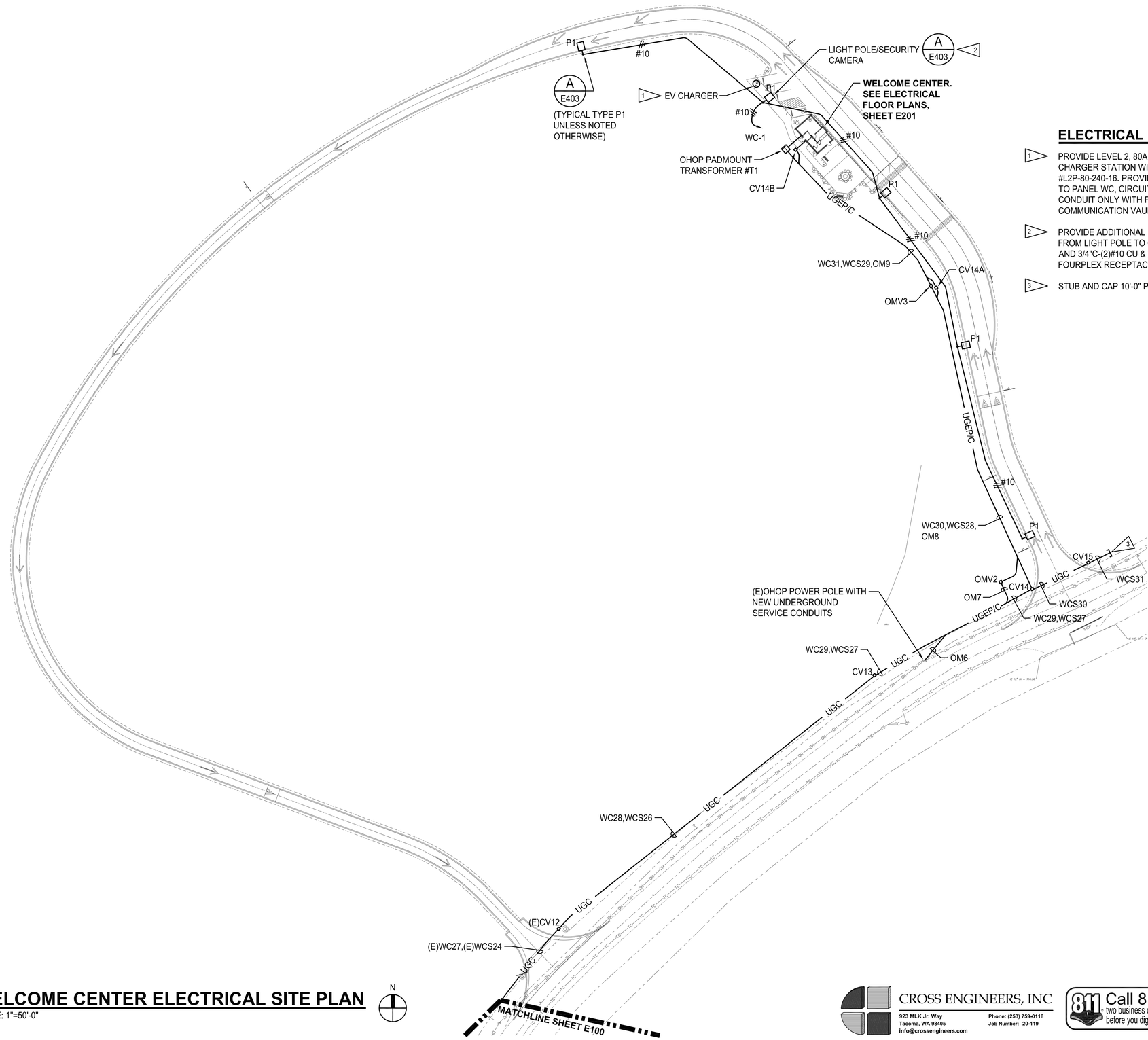

ELECTRICAL NOTES:

1. PROVIDE LEVEL 2, 80A, SINGLE PORT, ELECTRIC VEHICLE CHARGER STATION WITH CONCRETE BASE. BTC POWER #L2P-80-240-16. PROVIDE 1-1/2"C-(2)#2 CU & (1)#8 CU GRD TO PANEL WC, CIRCUIT #15,17. PROVIDE ADDITIONAL 1" CONDUIT ONLY WITH PULLSTRING FROM EV CHARGER TO COMMUNICATION VAULT #CV14B.
2. PROVIDE ADDITIONAL 1" CONDUIT ONLY WITH PULLSTRING FROM LIGHT POLE TO COMMUNICATIONS VAULT #CV14B AND 3/4"C-(2)#10 CU & (1)#10 CU GRD FROM COMM. BOX FOURPLEX RECEPTACLE TO PANEL WC, CIRCUIT #19.
3. STUB AND CAP 10'-0" PAST COMMUNICATIONS VAULT.

WELCOME CENTER ELECTRICAL SITE PLAN

SCALE: 1"=50'-0"

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6/23/25

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NISQUALLY STATE PARK

PHASE 3B-
WELCOME CENTER
AND LOOP TRAIL

WELCOME CENTER
ELECTRICAL
SITE PLAN
E101

SCALE
AS NOTED

PARKS FILE#

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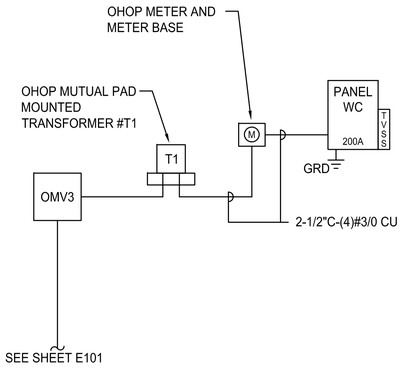
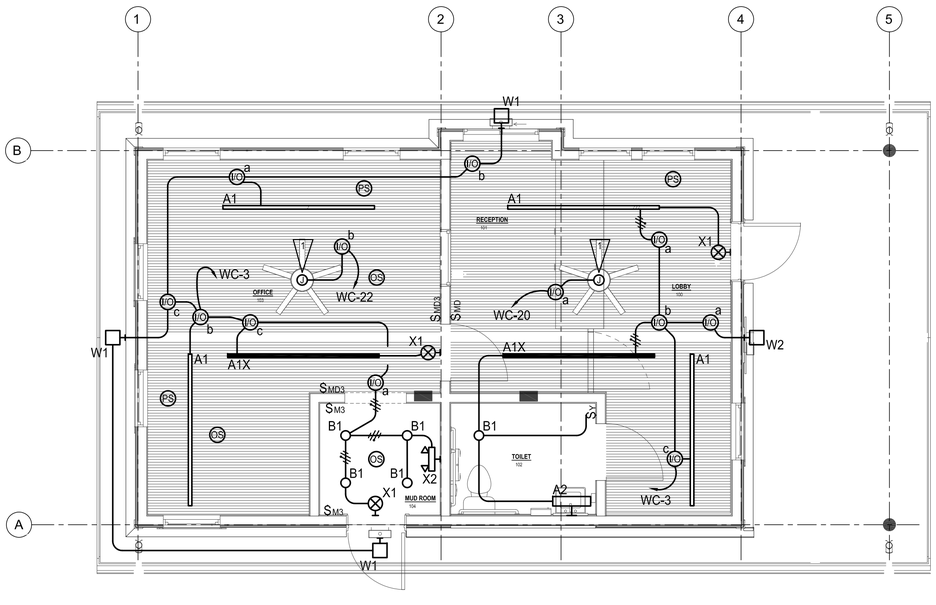


POWER RISER DIAGRAM

NO SCALE

ELECTRICAL NOTES:

1. CEILING FAN CONNECTION. PROVIDE WALL SWITCH ADJACENT TO ROOM LIGHT SWITCH.
2. DATA OUTLET FOR CAMIS SYSTEM.
3. EXTERIOR RATED, WIRELESS ACCESS POINT. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE WITHIN BUILDING FOR ROUTING OF DATA CABLING.
4. PROVIDE TWO(2) 2" CONDUITS FROM EXTERIOR COMMUNICATIONS VAULT #CV14B FOR ROUTING OF COMMUNICATION CABLING. WALL MOUNTED DATA RACK TO BE INSTALLED ON WALL ABOVE CONDUITS FOR TERMINATION OF CABLING.
5. FIRE ALARM CONTROL PANEL. PROVIDE 3/4"C-(2)#12 CU & (1)#12 CU GRD TO PANEL WC, CIRCUIT #21.



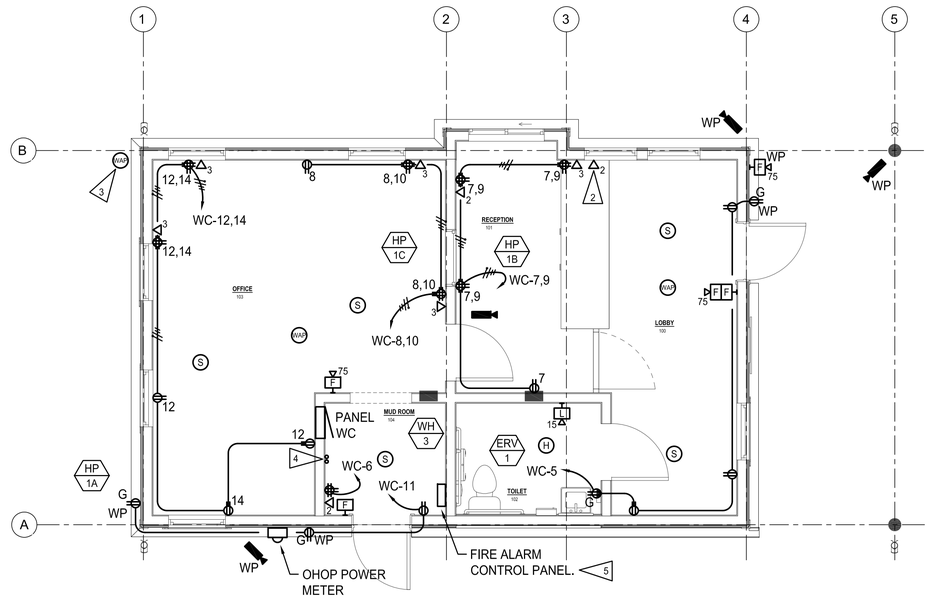
WELCOME CENTER LIGHTING FLOOR PLAN

SCALE: 1/4"=1'-0"

GRAPHIC SCALE

1/4"=1'-0" scale 4 0 4 8 feet

N



WELCOME CENTER POWER/SIGNAL FLOOR PLAN

SCALE: 1/4"=1'-0"

GRAPHIC SCALE

1/4"=1'-0" scale 4 0 4 8 feet

N

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Tacoma, WA 98405
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Phone: (253) 759-0118
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6/23/25

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WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B- WELCOME CENTER AND LOOP TRAIL

WELCOME CENTER ELECTRICAL FLOOR PLANS E201

SCALE

AS NOTED

PARKS FILE#

PANEL SCHEDULE

FLUSH MOUNTING
10,000 AIC

NO. **WC**

LOCATION: WELCOME CENTER
SERVING: WELCOME CENTER

120/208 VOLTS 3PHASE 4WIRE
200 AMPS WITH 200 MAIN BREAKER

CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS		TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
1	SITE LIGHTS	.37	20		50	8.00	WH-3	2
3	LIGHTS	.62			2			4
5	RECEPTACLES	.90			20	1.50	SERVER RECEPTACLE	6
7		.72				.54	RECEPTACLES	8
9		.54				.36		10
11	RECEPTACLES	.54				.72		12
13	ERV-1	.16	20		20	.54	RECEPTACLES	14
15	EV CHARGER	19.20	100		30	3.54	HP-1A/HP-1B,1C	16
17			2		2			18
19	LIGHT POLE RECEPTACLE	.50	20		20	1.00	CEILING FAN	20
* 21	FIRE ALARM PANEL	.50	20			1.00	CEILING FAN	22
23	SPARE		20				SPARE	24
25	SPACE						SPARE	26
27					20		SPARE	28
29							SPACE	30
31								32
33								34
35							SPACE	36
37					30		TVSS	38
39								40
41	SPACE				3			42

REMARKS: SERVICE ENTRANCE RATED.

CONNECTED LOAD: 41.3 KVA 115 AMPS
DEMAND LOAD: 47.2 KVA 131 AMPS

* PROVIDE CIRCUIT BREAKER HANDLE LOCK.

LIGHTING CONTROL SCHEDULE

ROOM NUMBER/NAME	I/O CONTROLLER ID	TYPE OF CONTROL					REMARKS
		OCCUPANCY SENSOR	PHOTO SENSOR	DIMMING	SWITCHING		
LOBBY 100/ REGISTRATION 101	a	N	Y	Y	D		(1)(2)(3)
	b	N	Y	Y	D		(1)(2)(4)
	c	N	N	Y	D		(1)
OFFICE 103	a	Y	Y	Y	D		(2)(3)(5)(6)
	b	Y	N	Y	D		(5)(6)
	c	Y	Y	Y	D		(2)(3)(5)(6)
EXTERIOR	a	N	N	N	N/A		(8)
	b	N	N	N	N/A		(8)
	c	N	N	N	N/A		(8)
MUD ROOM 104	a	Y	N	N	O		(5)(6)
CEILING FANS 100/103	a	N	N	N	O		(7)
	b	N	N	N	O		(7)

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE - WELCOME CENTER

ITEM	DESCRIPTION	LOCATION	VOLTS	PHASE	HP / KW	MIN. CIRCUIT AMPS	DISC. SWITCH	FUSES	MAGNETIC STARTER	FEEDER	CIRCUIT NUMBER	NOTES
ERV 1	ENERGY RECOV. VENTILATOR	TOILET 102	120	1	- / -	1.3	(1)	-	-	3/4"C-2#12 CU & 1#12 CU GRD	WC-13	
HP 1A	HEAT PUMP OUTDOOR UNIT	EXTERIOR	208	1	- / -	17	2P30 NEMA 3R	25	-	3/4"C-2#10 CU & 1#10 CU GRD	WC-16,18	
HP 1B	HEAT PUMP INDOOR UNIT	REGISTRATION 101	208	1	- / -	-	-	-	-	- / -	(2)	
HP 1C	HEAT PUMP INDOOR UNIT	OFFICE 103	208	1	- / -	-	-	-	-	- / -	(2)	
WH 3	WATER HEATER	MUD ROOM 104	208	1	- / 8.00	38.4	2P60	-	-	1"C-2#6 CU & 1#10 CU GRD	WC-2,4	

MECHANICAL EQUIPMENT CONNECTION SCHEDULES NOTES:

(1) PROVIDE 20A MOTOR RATED TOGGLE SWITCH

(2) INDOOR UNITS (HP-1B AND 1C) POWERED FROM OUTDOOR UNIT (HP-1A). PROVIDE POWER AND CONTROL WIRING BETWEEN UNITS PER MANUFACTURER REQUIREMENTS.

GENERAL NOTES:

1. LIGHTING CONTROLS SHALL BE WIRELESS WAVELINX, LEVITON OR SENSORWORX.
2. FOR ALL DIMMING SWITCHES WHEN ROOM LIGHTS ARE TURNED OFF LIGHTS SHALL REVERT BACK TO FULL-ON WHEN TURNED BACK ON.

NOTES:

(1) LIGHTS SHALL BE SET TO BE ON FROM 6 AM TO 10PM. IF LIGHTS ACTIVATE DURING OFF HOURS BY A LIGHT SWITCH THEY SHALL TURN OFF AFTER 2 HOURS.

(2) PHOTOSENSOR SHALL SET THE MAXIMUM LIGHT OUTPUT BASED ON NATURAL LIGHT LEVELS. DESIGN LEVEL IS BASED ON 30 FOOTCANDLES.

(3) I/O MODULE SHALL BE BASED ON PRIMARY DAY LIGHTING ZONE

(4) I/O MODULE SHALL BE BASED ON THE SECONDARY DAY LIGHTING ZONE

(5) LIGHTS SHALL TURN OFF AFTER 30 MINUTES OF OCCUPANCY SENSOR NOT DETECTING OCCUPANCY. LIGHTS SHALL BE MANUAL ON VIA LIGHT SWITCH.

(6) 3-WAY SWITCHING.

(7) PROVIDE SWITCH FOR ON/OFF CONTROL OF CEIILING FAN ADJACENT TO ROOM LIGHT SWITCH.

(8) CONTROLLED BY ASTRONOMICAL TIMECLOCK. ON 1-HOUR PRIOR TO SUNSET, OFF 1-HOUR AFTER SUNRISE.

LEGEND:

Y = YES
N = NO
O = ON/OFF
D = DIMMING
N/A = NOT APPLICABLE

BID SET

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Tacoma, WA 98405
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NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	SJK	6/23/25
DRAWN	JAE	6/23/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STEVEN L. HUBBS — STATE OF WASHINGTON — 0029066 — REGISTERED PROFESSIONAL ENGINEER
6/23/25

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B- WELCOME CENTER AND LOOP TRAIL

WELCOME CENTER ELECTRICAL SCHEDULES E202

SCALE
AS NOTED

PARKS FILE#

CONDUIT AND CONDUCTOR SCHEDULE

CIRCUIT ID	CONDUIT			CONDUCTORS PER CONDUIT			FROM	TO	REMARKS
	NO.	SIZE	TYPE	NO.	SIZE	TYPE			
(E)OM6	3	2-1/2"	PVC	-	-	-	EXISTING OHOP POWER POLE	STUB AND CAP 15'-0" PAST ROAD EDGE	(6)
OM7	3	2-1/2"	PVC	-	-	-	EXISTING OHOP POWER POLE	OMV2	(1)
OM8	3	2-1/2"	PVC	-	-	-	OMV2	OMV3	(1)
OM9	3	2-1/2"	PVC	-	-	-	OMV3	OHOP TRANSFORMER VAULT	(1)
(E)WC18	1	4"	PVC	-	-	-	(E)CV2	(E)CV3	(6)
(E)WC19	1	4"	PVC	-	-	-	(E)CV3	(E)CV4	(6)
(E)WC20	1	4"	PVC	-	-	-	(E)CV4	(E)CV5	(6)
(E)WC21	1	4"	PVC	-	-	-	(E)CV5	(E)CV6	(6)
(E)WC22	1	4"	PVC	-	-	-	(E)CV6	(E)CV7	(6)
(E)WC23	1	4"	PVC	-	-	-	(E)CV7	(E)CV8	(6)
(E)WC24	1	4"	PVC	-	-	-	(E)CV8	(E)CV9	(6)
(E)WC25	1	4"	PVC	-	-	-	(E)CV9	(E)CV10	(6)
(E)WC26	1	4"	PVC	-	-	-	(E)CV10	(E)CV11	(6)
(E)WC27	1	4"	PVC	-	-	-	(E)CV11	(E)CV12	(6)
WC28	1	4"	PVC	-	-	-	(E)CV12	CV13	(2)
WC29	1	4"	PVC	-	-	-	CV13	CV14	(2)
WC30	1	4"	PVC	-	-	-	CV14	CV14A	(4)
WC31	1	4"	PVC	-	-	-	CV14A	CV14B	(4)
(E)WCS15	1	4"	PVC	-	-	-	(E)CV2	(E)CV3	(6)
(E)WCS16	1	4"	PVC	-	-	-	(E)CV3	(E)CV4	(6)
(E)WCS17	1	4"	PVC	-	-	-	(E)CV4	(E)CV5	(6)
(E)WCS18	1	4"	PVC	-	-	-	(E)CV5	(E)CV6	(6)
(E)WCS19	1	4"	PVC	-	-	-	(E)CV6	(E)CV7	(6)
(E)WCS20	1	4"	PVC	-	-	-	(E)CV7	(E)CV8	(6)
(E)WCS21	1	4"	PVC	-	-	-	(E)CV8	(E)CV9	(6)
(E)WCS22	1	4"	PVC	-	-	-	(E)CV9	(E)CV10	(6)
(E)WCS23	1	4"	PVC	-	-	-	(E)CV10	(E)CV11	(6)
(E)WCS24	1	4"	PVC	-	-	-	(E)CV11	(E)CV12	(6)
(E)WCS25	2	4"	PVC	-	-	-	(E)CV9	STUB AND CAP 15'-0" PAST ROAD EDGE	(6)
WCS26	1	4"	PVC	-	-	-	(E)CV12	CV13	(3)
WCS27	1	4"	PVC	-	-	-	CV13	CV14	(3)
WCS28	1	4"	PVC	-	-	-	CV14	CV14A	(5)
WCS29	1	4"	PVC	-	-	-	CV14A	CV14B	(3)
WCS30	1	4"	PVC	-	-	-	CV14	CV15	(3)
WCS31	1	4"	PVC	-	-	-	CV15	STUB AND CAP 10'-0" PAST VAULT	

SCHEDULE ABBREVIATION LEGEND:

RCC = RAINIER CONNECT COMMUNICATIONS CONDUIT

WC = WASHINGTON STATE PARKS COMMUNICATIONS CONDUIT

WCS = WASHINGTON STATE PARKS SPARE COMMUNICATIONS CONDUIT

WP = WASHINGTON STATE PARKS POWER CONDUIT

WPS = WASHINGTON STATE PARKS SPARE POWER CONDUIT

OM = OHOP MUTUAL MEDIUM VOLTAGE

PVC = SCHEDULE 40 PVC CONDUIT

GRS = GALVANIZED RIGID STEEL CONDUIT

CV = COMMUNICATIONS VAULT

SCHEDULE NOTES:

(1) CONDUIT AND CABLING PROVIDED AND INSTALLED BY OHOP. CONTRACTOR SHALL PROVIDE TRENCHING, BACKFILL AND COMPACTION.

(2) PROVIDE (1)OUTSIDE PLANT, 24 STRAND, SINGLE MODE, FIBER OPTIC CABLE. CORNING OR EQUAL.

(3) PROVIDE (1)3-CELL, EDGE DETECTABLE INNERDUCT IN CONDUIT WITH PULLSTRINGS IN EACH CELL. MAXCELL #MXED52223 OR EQUAL.

(4) PROVIDE (1)OUTSIDE PLAN, 12 STRAND, SINGLE MODE, FIBER OPTIC CABLE. CORNING OR EQUAL.

(5) PROVIDE NEW (1)OUTSIDE PLANT, 24 STRAND, SINGLE MODE, FIBER OPTIC CABLE IN EXISTING CONDUIT. CORNING OR EQUAL.

(6) EXISTING CONDUIT INSTALLED AS PART OF PHASE 3A WORK.

BID SET

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6/23/25

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WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3B- WELCOME CENTER AND LOOP TRAIL

CONDUIT AND CONDUCTOR SCHEDULE
E301

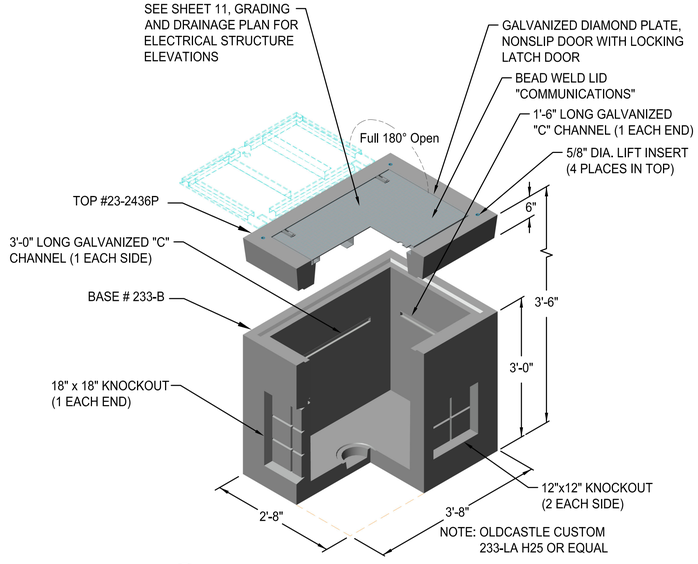
SCALE
AS NOTED

PARKS FILE#

VAULT AND HANDHOLE SCHEDULE			
ID	DESCRIPTION	LOADING	NOTES
OMV2,3	PROVIDED AND INSTALLED BY OHOP MUTUAL	-	7 2 3 4 5 6
CV13,14,14A,14B,15	CUSTOM COMMUNICATION VAULTS SEE DETAIL A, THIS SHEET	MINIMUM H25	1 2 3 4 5 6

VAULT SCHEDULE NOTES:

1. ALL CONDUITS ENTERING OR LEAVING VAULTS SHALL USE BLOCK-OUTS WITH BELL ENDS AND GROUTED. PROVIDE REMOVABLE FOAM FILL IN ALL EMPTY CONDUIT OPENINGS. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS. PROVIDE CONDUIT LABELS FOR ALL CONDUITS ENTERING AND LEAVING VAULTS/HANDHOLES. PROVIDE PHENOLIC LABEL ATTACHED TO VAULT/HANDHOLE WALL WITH TWO (2) PLASTIC INSERTS AND STAINLESS STEEL SCREWS ADJACENT TO EACH CONDUIT. PHENOLIC LABEL SHALL HAVE CONDUIT ID ENGRAVED AS INDICATED ON CONDUIT AND WIRE SCHEDULE DRAWINGS.
2. POWER AND COMMUNICATIONS VAULT/HANDHOLE BEDDING. CONTRACTOR SHALL COMPACT SUBGRADE TO 95% OF MAXIMUM DENSITY, THEN INSTALL 4" OF CLASS A BACKFILL COMPACTED TO 95% OF MAXIMUM DENSITY AND THEN 2" OF .625 MINUS CRUSHED ROCK COMPACTED TO 100% MAXIMUM DENSITY FOR BEDDING. SEE CIVIL AND SLOPE ALL GRADES AWAY FROM LIDS TO PREVENT SURFACE WATER FROM ENTERING VAULT.
3. ALL WIRE (POWER AND COMMUNICATIONS) SHALL COMPLETELY LOOP AROUND VAULT/HANDHOLE WALLS PRIOR TO EXITING VAULT.
4. CONTRACTOR SHALL PROVIDE WELDED BEAD LABEL ON LID TO READ "ELECTRIC" OR "COMMUNICATIONS". METAL STAMP LID AND FRAME OF EACH VAULT/HANDHOLE TO MATCH DRAWING LABELS.
5. PROVIDE BOLTED GROUND LUG(S) ON LID AND FRAME. PROVIDE #2 BARE CU GROUND IN EACH VAULT TO TWO (2) 3/4" X 10'-0" GROUND RODS EXTERIOR TO VAULT OR HANDHOLE.
6. PROVIDE STENCIL PAINTED, VAULT/HANDHOLE LOAD RATING ON INSIDE OF VAULT DIRECTLY BELOW LID. MINIMUM 4" HIGH LETTERS.
7. VAULT PROVIDED AND INSTALLED BY OHOP MUTUAL. CONTRACTOR SHALL PROVIDE EXCAVATION FOR VAULT.



A E401 **COMMUNICATIONS VAULT**
NO SCALE

BID SET

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NISQUALLY STATE PARK

PHASE 3B- WELCOME CENTER AND LOOP TRAIL

ELECTRICAL DETAILS E401

SCALE
AS NOTED

PARKS FILE#

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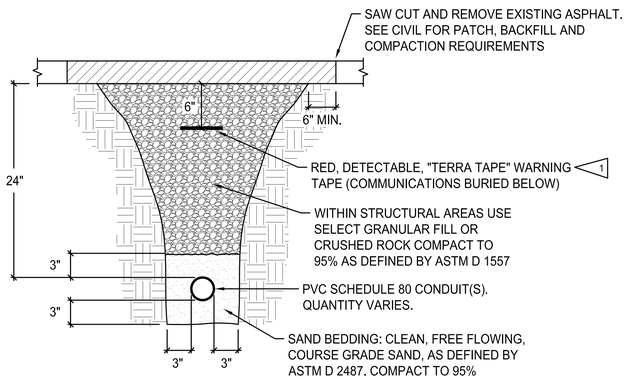
ELECTRICAL NOTES:

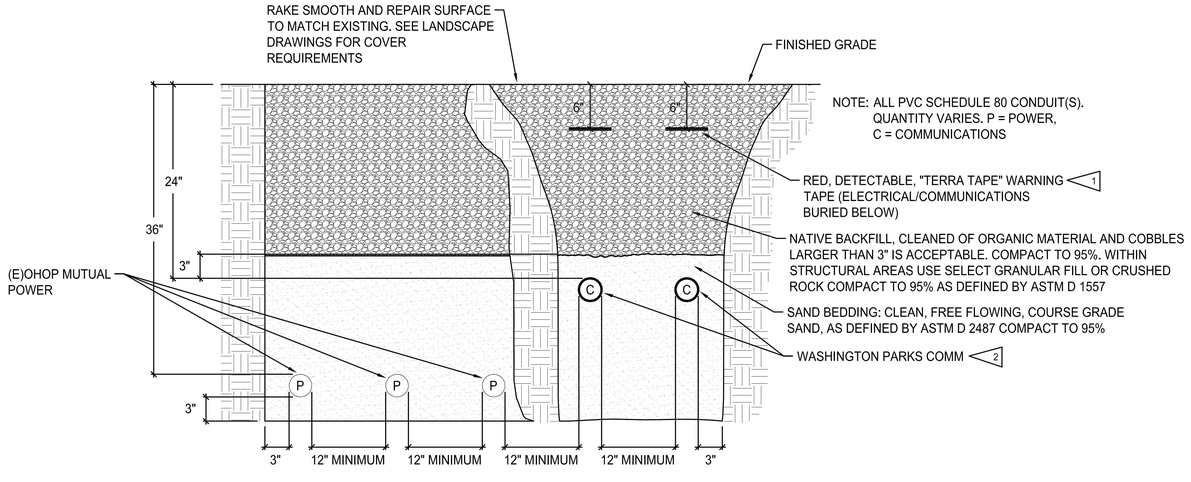
1. CONTRACTOR SHALL TERMINATE DETECTABLE WARNING TAPE IN VAULT(S). PROVIDE 24" MINIMUM OF TAPE WITHIN VAULT.

2. CONTRACTOR SHALL PROVIDE TWO(2) 4" CONDUIT. ONE 4" IS TO BE SPARE WITH PULLTAPE AND ONE 4" CONTRACTOR SHALL INSTALL MAXCELL EDGE DETECTABLE INNDERDUCT WITH PULLSTRINGS IN EACH CELL. MAXCELL #MXED52223 OR EQUAL.



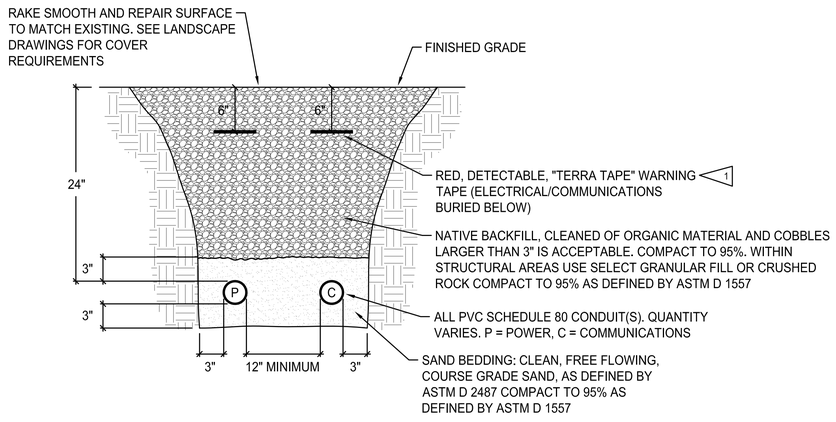
ROADWAY CROSSING - WASHINGTON PARK COMMUNICATIONS CONDUIT TRENCHING

A / E402 NOT TO SCALE



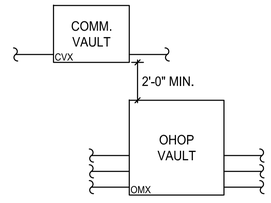
OHOP MUTUAL, WASHINGTON PARKS COMMUNICATIONS COMMON TRENCHING

B / E402 NOT TO SCALE



WASHINGTON PARKS POWER/ COMMUNICATIONS CONDUIT TRENCHING

C / E402 NOT TO SCALE



TYPICAL VAULT PLACEMENT

D / E402 NOT TO SCALE

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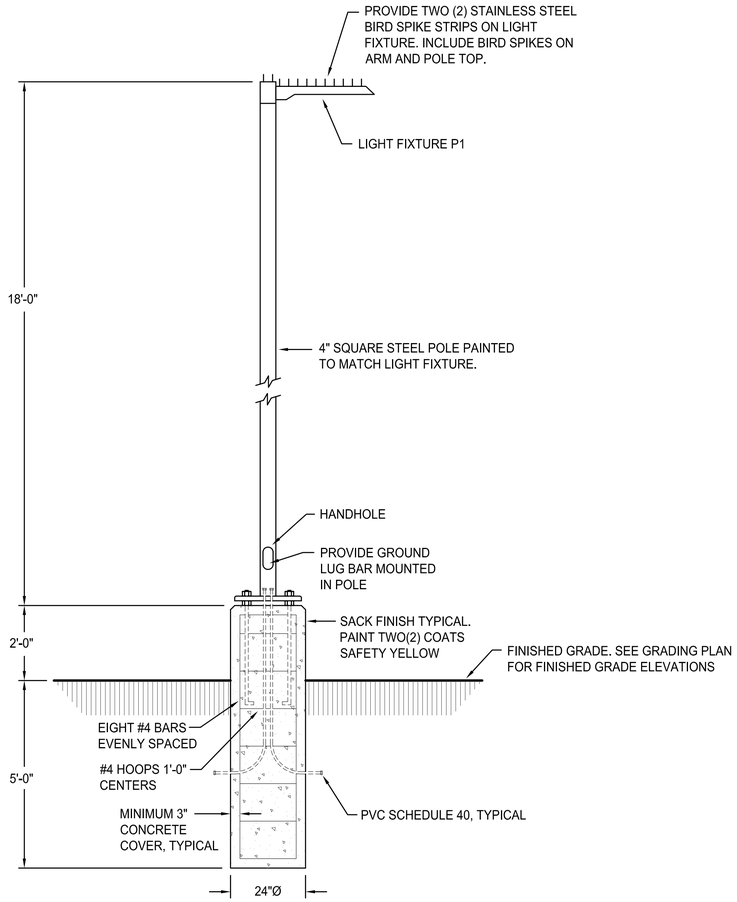
PHASE 3B- WELCOME CENTER AND LOOP TRAIL

ELECTRICAL DETAILS E402

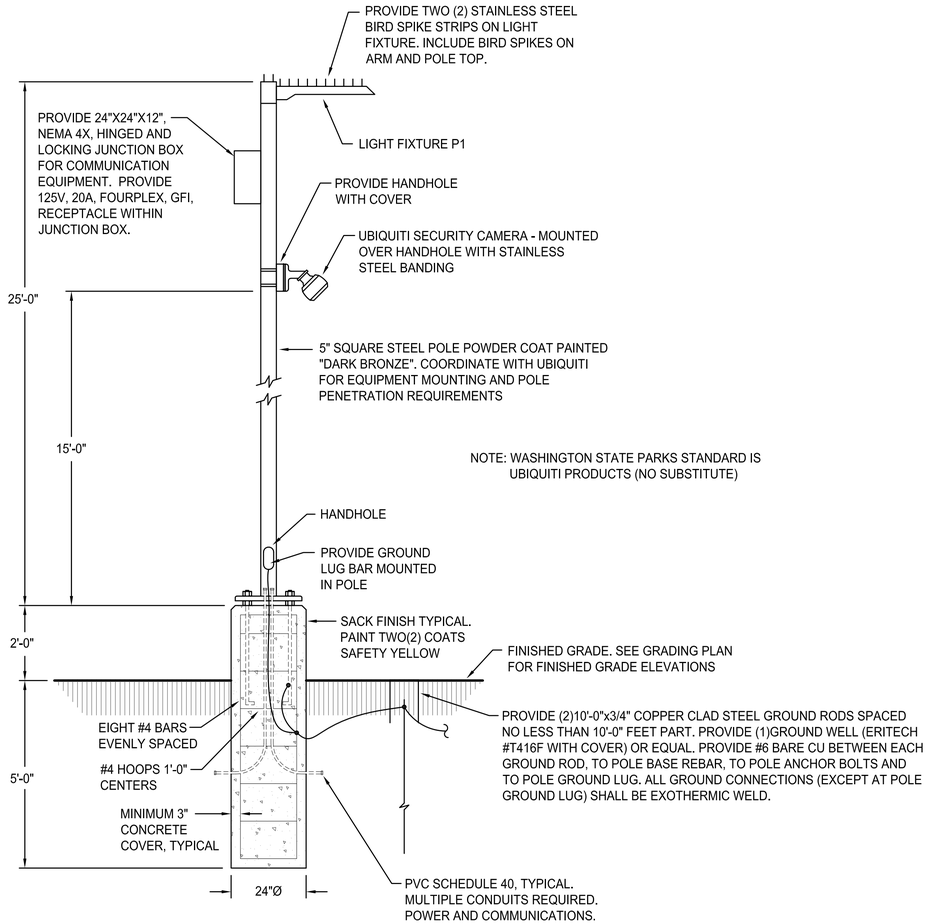
BID SET

SCALE
AS NOTED

PARKS FILE#



A E403 **LIGHT POLE AND CONCRETE BASE**
NOT TO SCALE



B E403 **CAMERA/LIGHT POLE AND CONCRETE BASE**
NOT TO SCALE

BID SET

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ELECTRICAL DETAILS E403

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