

WASHINGTON STATE PARKS & RECREATION COMMISSION

KEN BOUNDS, CHAIR

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DIANA DUPUIS, DIRECTOR



APPROVED FOR CONSTRUCTION

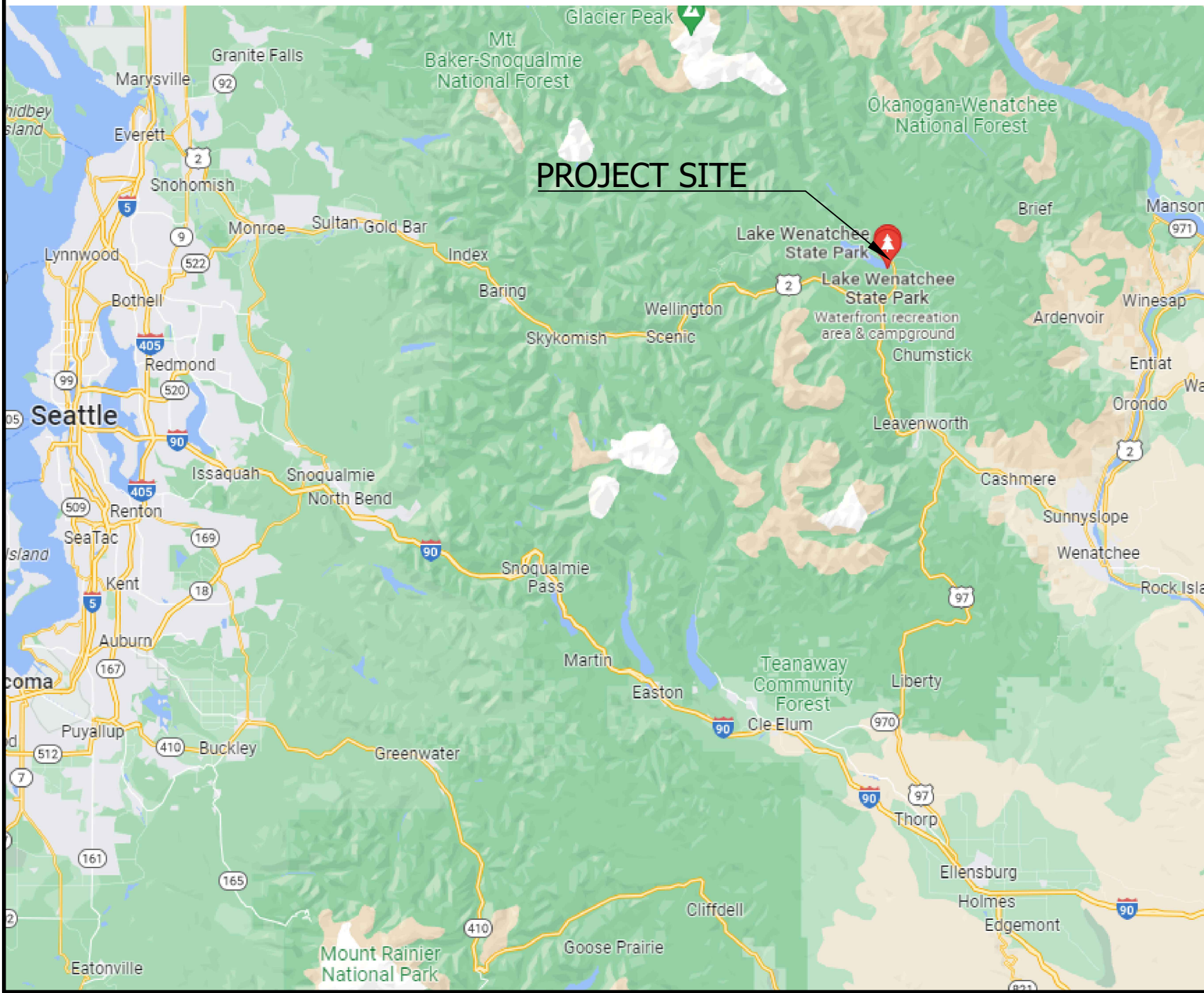
REGION MANAGER _____ date _____

CAPITAL PROGRAM MANAGER _____ date _____

Area Manager: BRIAN PATNODE

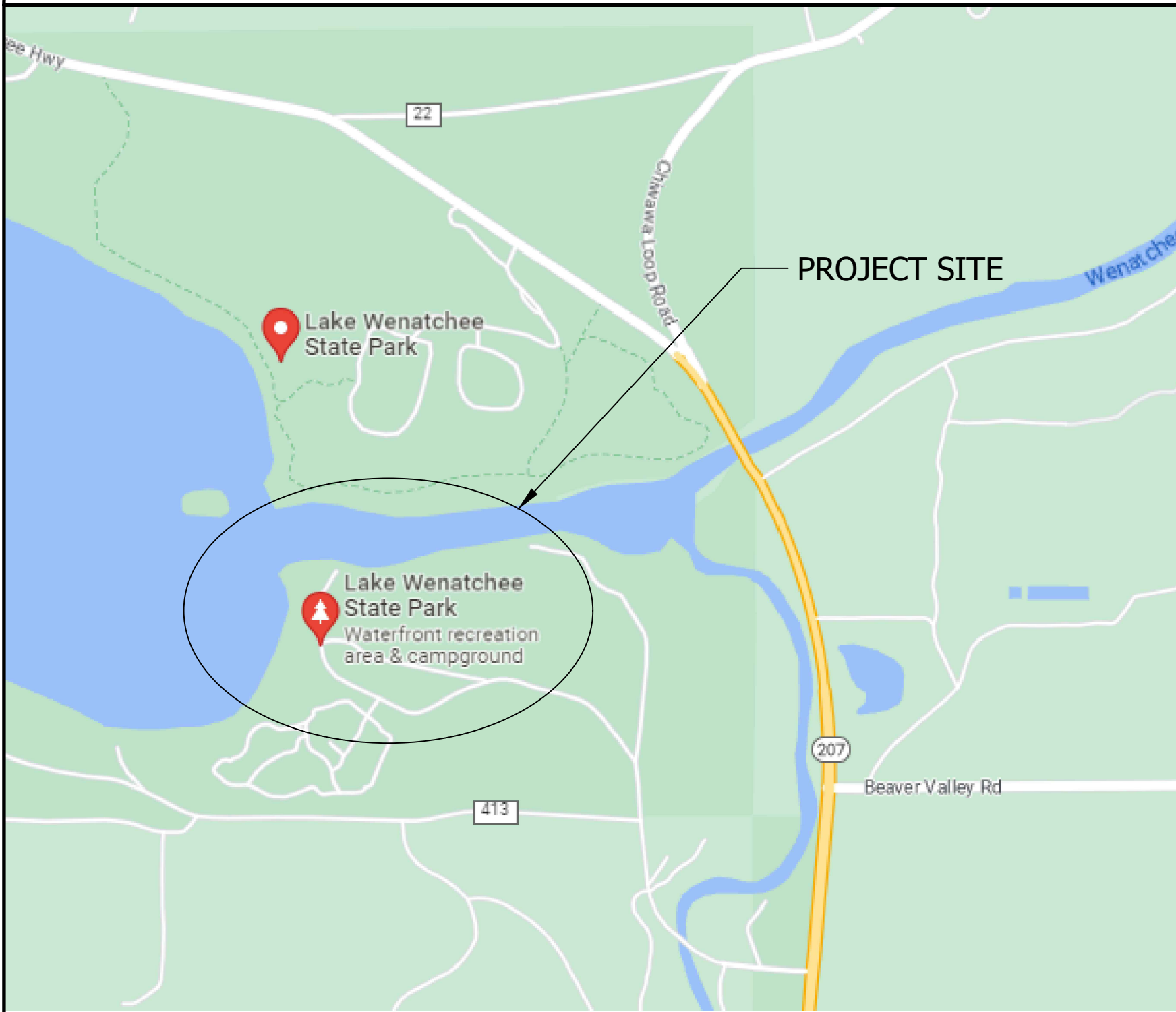
LAKE WENATCHEE STATE PARK BOAT LAUNCH IMPROVEMENTS

VICINITY MAP



LATITUDE 47 DEG 48' 26" N & LONGITUDE 120 DEG 43' 32" W

PROJECT LOCATION



21588 SR 207, LEAVENWORTH, WA
SEC-28 T-27-N R-17-E
CHELAN COUNTY TAX PARCEL NUMBER 271728000050

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NOT TO BE USED FOR CONSTRUCTION

GENERAL NOTES:

1.

THESE NOTES CONTAIN GENERAL INFORMATION AND ARE NOT ALL INCLUSIVE. CONTRACTOR SHALL VERIFY INFORMATION GIVEN HERE WITH SPECIFICATIONS AND OTHER DOCUMENTS AND BRING ANY CONFLICTS TO THE ATTENTION OF THE PROJECT ENGINEER BEFORE BEGINNING AFFECTED WORK. THE PROJECT ENGINEER WILL RESOLVE ANY SUCH CONFLICT.
2.

IN THE EVENT OF CONFLICTING REQUIREMENTS BETWEEN THE CONTRACT DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE MORE STRINGENT SHALL CONTROL.
3.

ALL FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF DEMOLITION, CONSTRUCTION, AND ERECTION OF MATERIALS ARE THE CONTRACTOR'S RESPONSIBILITY.
4.

THE CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH THE STATE PARKS- OBTAINED PERMITS. THE CONTRACTOR SHALL OBTAIN ALL OTHER FEDERAL, STATE, OR LOCAL DEPARTMENT REQUIRED PERMITS AFFECTED BY THE WORK NOT PREVIOUSLY OBTAINED BY STATE PARKS.
5.

THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL PROTECTION STANDARDS, PERMITS, LAWS, AND REGULATIONS.
6.

THE CONTRACTOR SHALL PLACE CONSTRUCTION DEBRIS CONTROL DEVICES AS NECESSARY TO PREVENT DEBRIS FROM ENTERING THE WATER, AND AIRBORNE MATERIALS FROM LEAVING THE IMMEDIATE VICINITY OF THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF ANY MATERIALS DEPOSITED OUTSIDE AND WITHIN THE WORK AREA.
7.

THE CONTRACTOR SHALL DISPOSE OF ALL HAZARDOUS / NON HAZARDOUS AND REGULATED / NON REGULATED DEBRIS OFF THE PROJECT SITE IN A PERMITTED LANDFILL.
8.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS FOR COMPATIBILITY BEFORE PROCEEDING WITH CONSTRUCTION OR MATERIAL PROCUREMENT. ANY DISCREPANCIES IN DIMENSIONS OR CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER BEFORE PROCEEDING. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION UNTIL THE DISCREPANCY HAS BEEN RESOLVED BY THE PROJECT ENGINEER.
9.

LOCATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING DISCREPANCIES WITH THE PROJECT ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH THE RECORD DRAWINGS, AND VERIFY DIMENSIONS IN THE FIELD.
10.

CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
11.

CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING SURFACES OR STRUCTURES THAT WILL REMAIN.
12.

DO NOT SCALE DRAWINGS.
13.

DRAWINGS ARE FOR USE ON THIS PROJECT ONLY; DO NOT REUSE WITHOUT PRIOR WRITTEN APPROVAL FROM MOFFATT & NICHOL.
14.

THE DRAWINGS DO NOT INDICATE THE METHOD OR SEQUENCE OF CONSTRUCTION, EXCEPT AS MAY BE SPECIFICALLY NOTED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGN AND SUPPLY OF ALL ERECTION BRACING AND SHORING TO RESIST VERTICAL AND LATERAL LOADS, AND FOR SAFETY PROGRAMS, METHODS, AND PROCEDURES OF OPERATION FOR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS.
15.

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, STRUCTURES OR CONDUITS SHOWN ON THESE PLANS WERE OBTAINED BY THE SEARCH OF AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ANY ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

SURVEY:

1.

EXISTING SITE INFORMATION SHOWN ON THESE DRAWINGS IS BASED ON SURVEY INFORMATION PROVIDED BY AKS ENGINEERING & FORESTRY, LLC
2.

DATE OF SURVEY: OCTOBER 24-26, 2022.
3.

HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 WITH THE 2011 ADJUSTMENT (NAD83/2011) STATE PLANE COORDINATE SYSTEM (SPCS), WASHINGTON NORTH ZONE.
4.

VERTICAL DATUM NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
5.

UNITS: US FEET
6.

CONTOUR INTERVAL: 1 FOOT
7.

CONTRACTOR IS RESPONSIBLE FOR REQUESTING & MAINTAINING LOCATES ON ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS.

DEMOLITION:

1.

CONTAIN REMOVAL & DEMOLITION ACTIVITIES WITHIN THE LIMITS DESIGNATED ON THE DRAWINGS. DO NOT DAMAGE EXISTING STRUCTURES OR FACILITIES TO REMAIN DURING REMOVAL OR DEMOLITION WORK.
2.

ALL REMOVED OR DEMOLISHED MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR. COMPLETELY REMOVE HANDLE & DISPOSE OF SUCH MATERIALS, INCLUDING CREOSOTE-TREATED, IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REQUIREMENTS.
3.

A HAZARDOUS MATERIALS SURVEY HAS NOT BEEN CONDUCTED AT THE SITE, BUT IT IS BELIEVED THE PROBABILITY OF ENCOUNTERING ASBESTOS CONTAINING MATERIAL & LEAD BASED PRODUCTS IS LOW.
4.

REPLACE ANY ADJACENT DAMAGED MATERIALS NOT DESIGNATED FOR REMOVAL AT NO ADDITIONAL COST TO STATE PARKS.
5.

BLASTING OR BURNING IS NOT PERMITTED.
6.

PROVIDE APPROPRIATE MEASURES TO PREVENT DUST & DEBRIS FROM ENTERING WATERS OF THE STATE.
7.

EXISTING PROTECTIVE BOULDERS WITHIN DISTURBED AREA SHALL BE REMOVED AND SALVAGED. AFTER COMPLETION OF PAVING AND GRADING IMPROVEMENTS, BOULDERS SHALL BE PLACED ALONG NEW GRAVEL SHOULDER.

SIGNING & STRIPING NOTES

1.

ALL STRIPING SHALL BE 4" PAINTED SOLID STRIPES WITH COLOR PER STALL TYPE UNLESS SHOWN OTHERWISE. ALL LINES SHALL HAVE A WET FILM THICKNESS OF 15 MILS WHEN USING "REGULAR DRY" COLD APPLIED PAINT. WHEN USING "RAPID DRY" HOT APPLIED PAINT, WET FILM THICKNESS SHALL BE 12 MILS.
2.

ALL PAVEMENT STRIPING, MARKINGS, SYMBOLS AND ARROWS SHALL BE COATED WITH 2 COATS OF PAINT.
3.

CROSS HATCH STRIPING SIGNIFIES "NO PARKING". STRIPING TO BE COMPOSED OF 45-DEGREE STRIPES AT 3-FOOT OFFSETS, BOUNDED BY A BORDER STRIPE.
4.

STRIPING COLOR SHALL BE WHITE, UNLESS USED FOR ADA PARKING. IN WHICH CASE, STRIPING COLOR SHALL BE BLUE.
5.

ADA PARKING STALL STRIPING AND SIGNAGE PER SPPWC STD PLAN 180-0. STANDARD PLAN PROVIDES MINIMUM DIMENSIONS. PARKING DIMENSIONS PER PLAN.
6.

SIGNS TO BE CENTERED AT THE INTERIOR END OF PARKING SPACE.

GRADING & PAVING NOTES

1.

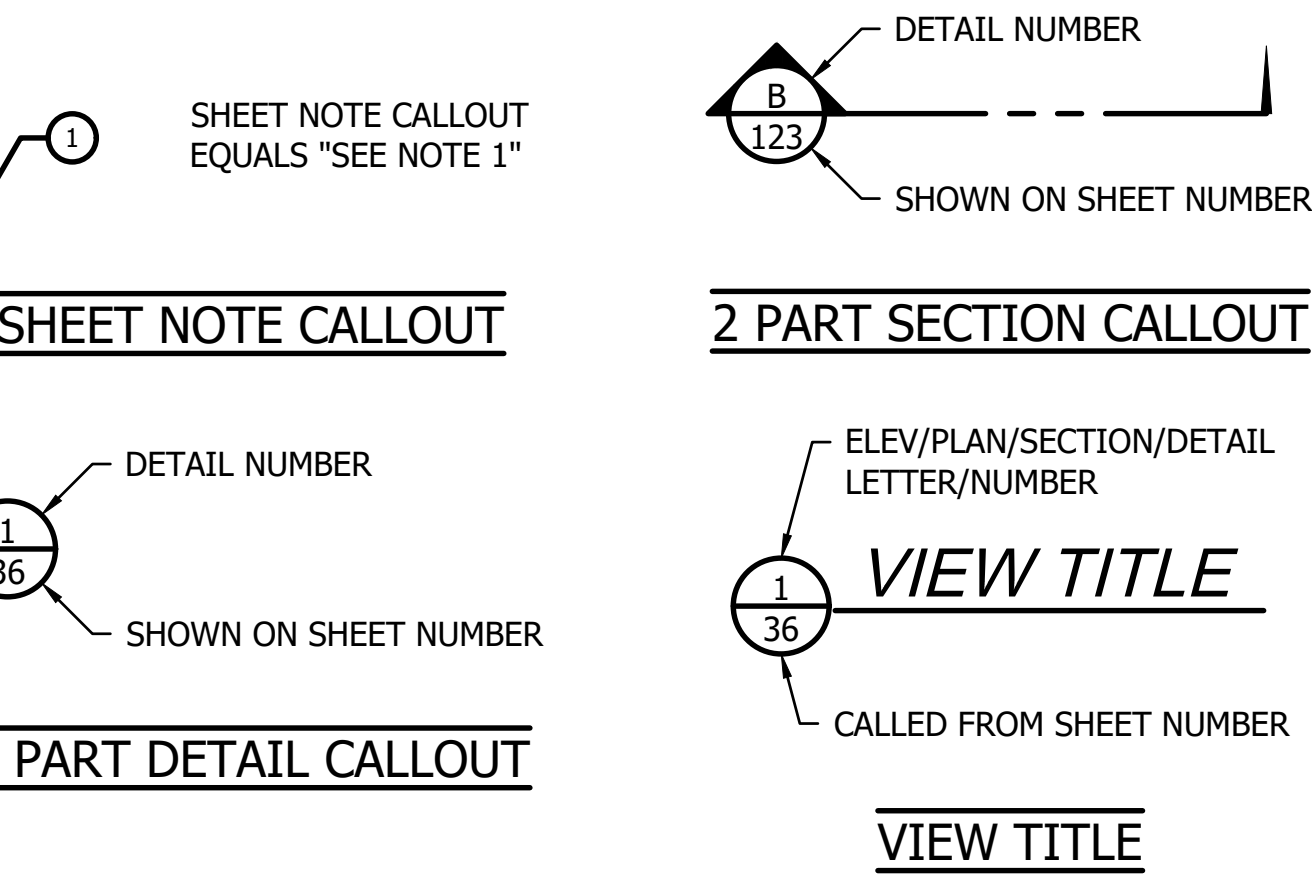
ALL AREAS TO BE GRADED SHALL BE CLEARED OF SURFACE AND SUBSURFACE DELETERIOUS MATTER DEBRIS. THIS WILL INCLUDE FOREST DUFF, UNSUITABLE SOIL CONTAINING ORGANICS, ASPHALT, CONCRETE, ORGANICS/CLAY OR OTHERWISE UNSUITABLE MATERIAL EXPOSED IN THE EXCAVATION/SUBGRADES.
2.

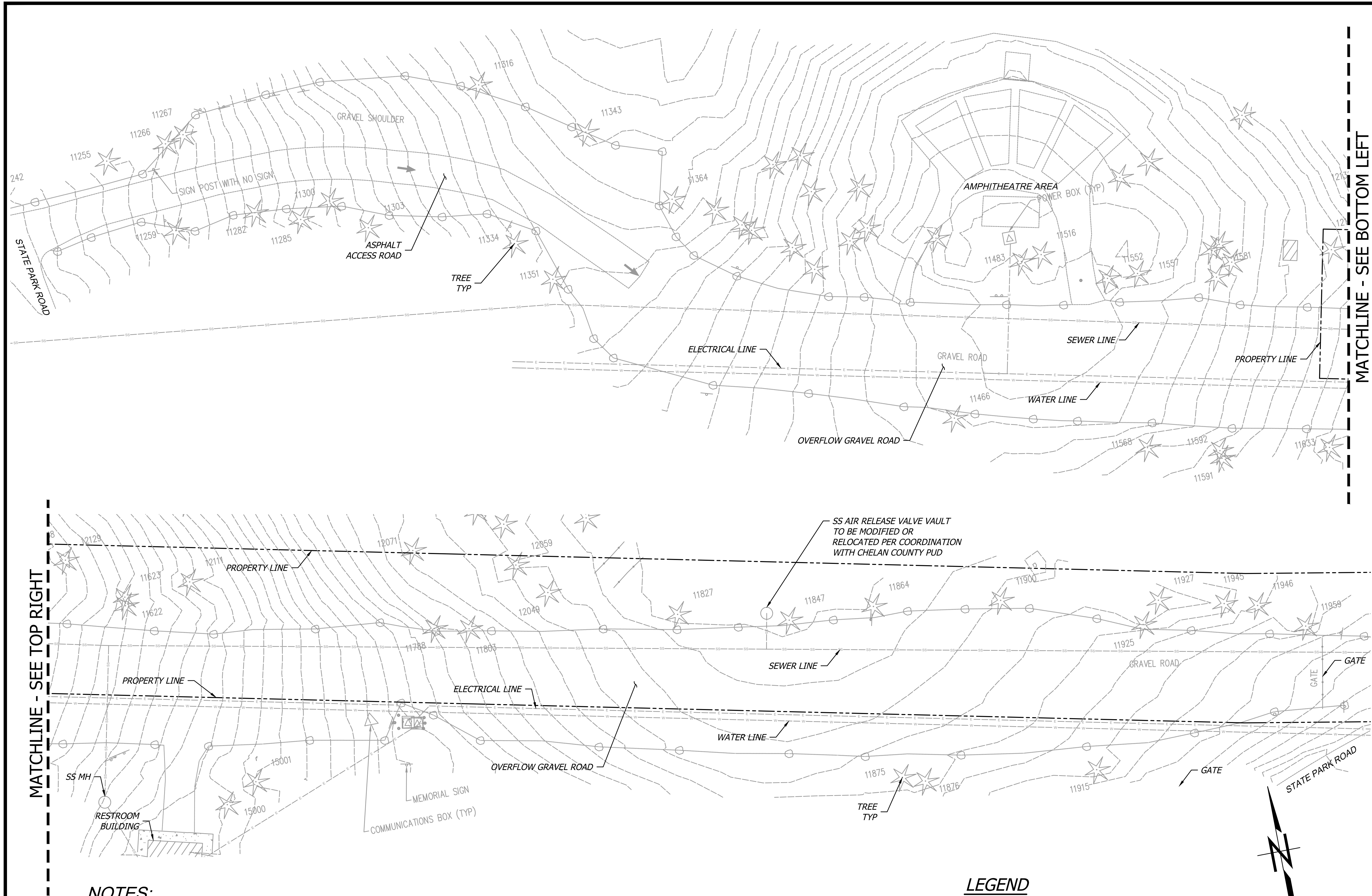
COMPETENT MINERAL SOIL SHALL BE EXPOSED THROUGHOUT THE PROPOSED OVERFLOW PARKING AREA.
3.

A GEOTECHNICAL REPRESENTATIVE SHALL EVALUATE THE EXPOSED SUBGRADE CONDITIONS AFTER THE SUBGRADES ARE EXPOSED AND PREPARED AND PRIOR TO PLACEMENT OF ANY STRUCTURAL FILL. THE EXPOSED SUBGRADE SHOULD BE EVALUATED BY PROOF ROLLING WITH A LOADED DUMP TRUCK OR BY PROBING WITH A 1/2-INCH-DIAMETER STEEL ROD.
4.

ANY SOFT, LOOSE, OR OTHERWISE UNSUITABLE AREAS IDENTIFIED DURING EVALUATION SHOULD BE OVEREXCAVATED AND REPLACED WITH STRUCTURAL FILL, BASED ON RECOMMENDATIONS OF THE GEOTECHNICAL REPRESENTATIVE.

CROSS-REFERENCE LEGEND:

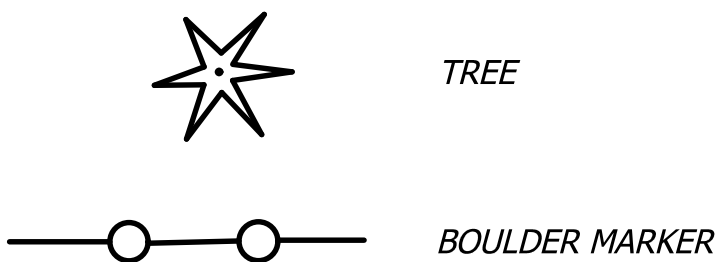




NOTES:

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LEGEND



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SHEET 3 OF 26

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

	DATE
	APP.
	INT.
	NO.
REVISIONS	

ACTION	BY	DATE
DESIGNED	XXX	XX/XX/XX
DRAWN	XXX	XX/XX/XX
CHECKED (FIELD)	XXX	XX/XX/XX
CHECKED (HDQTS.)	XXX	XX/XX/XX

PROJECT ENGINEER

WASHINGTON
STATE
PARKS
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COMMISSION



LAKE WENATCHEE
STATE PARK

BOAT LAUNCH
IMPROVEMENTS
PROJECT

EXISTING
CONDITIONS -
OVERFLOW ROAD

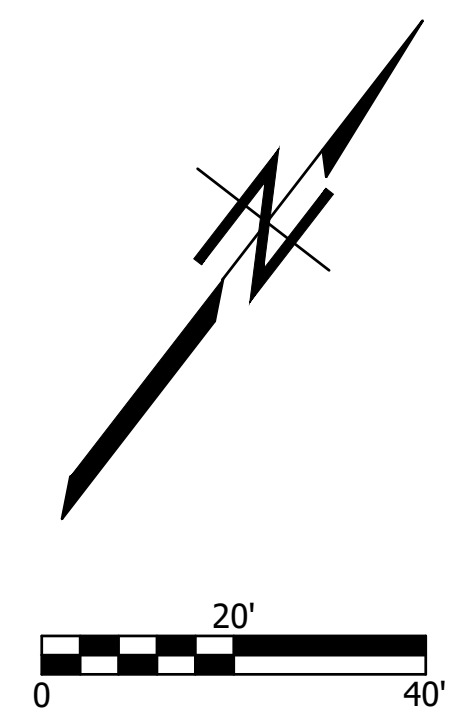
SCALE

1"=20'

PARKS FILE#



1
-
PHOTO - SCULPTURE
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SHEET 4 OF 26


CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

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	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	XXX	XX/XX/XX
DRAWN	XXX	XX/XX/XX
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CHECKED (HDQTS.)	XXX	XX/XX/XX

PROJECT ENGINEER

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COMMISSION



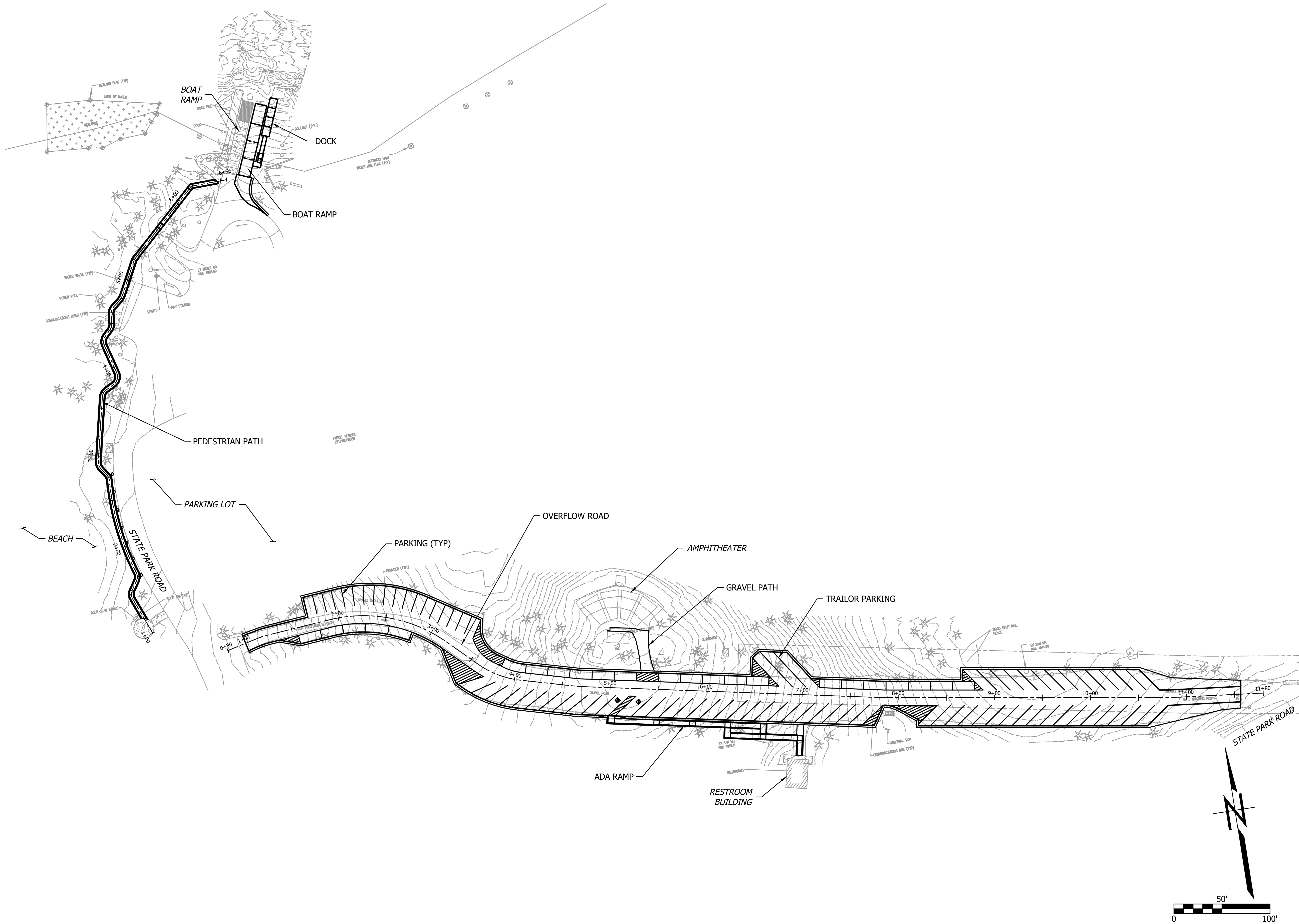
LAKE WENATCHEE
STATE PARK

BOAT LAUNCH
IMPROVEMENTS
PROJECT

EXISTING
CONDITIONS -
PEDESTRIAN PATH

SCALE
1"=20'

PARKS FILE#



CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

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	REVISIONS
	NO.

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DESIGNED	JMB	09/13/24
DRAWN	DAP	09/13/24
CHECKED (FIELD)	XXX	XX/XX/XX
CHECKED (HDQTS.)	XXX	XX/XX/XX

PROJECT ENGINEER

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LAKE WENATCHEE
STATE PARK

BOAT LAUNCH
IMPROVEMENTS
PROJECT

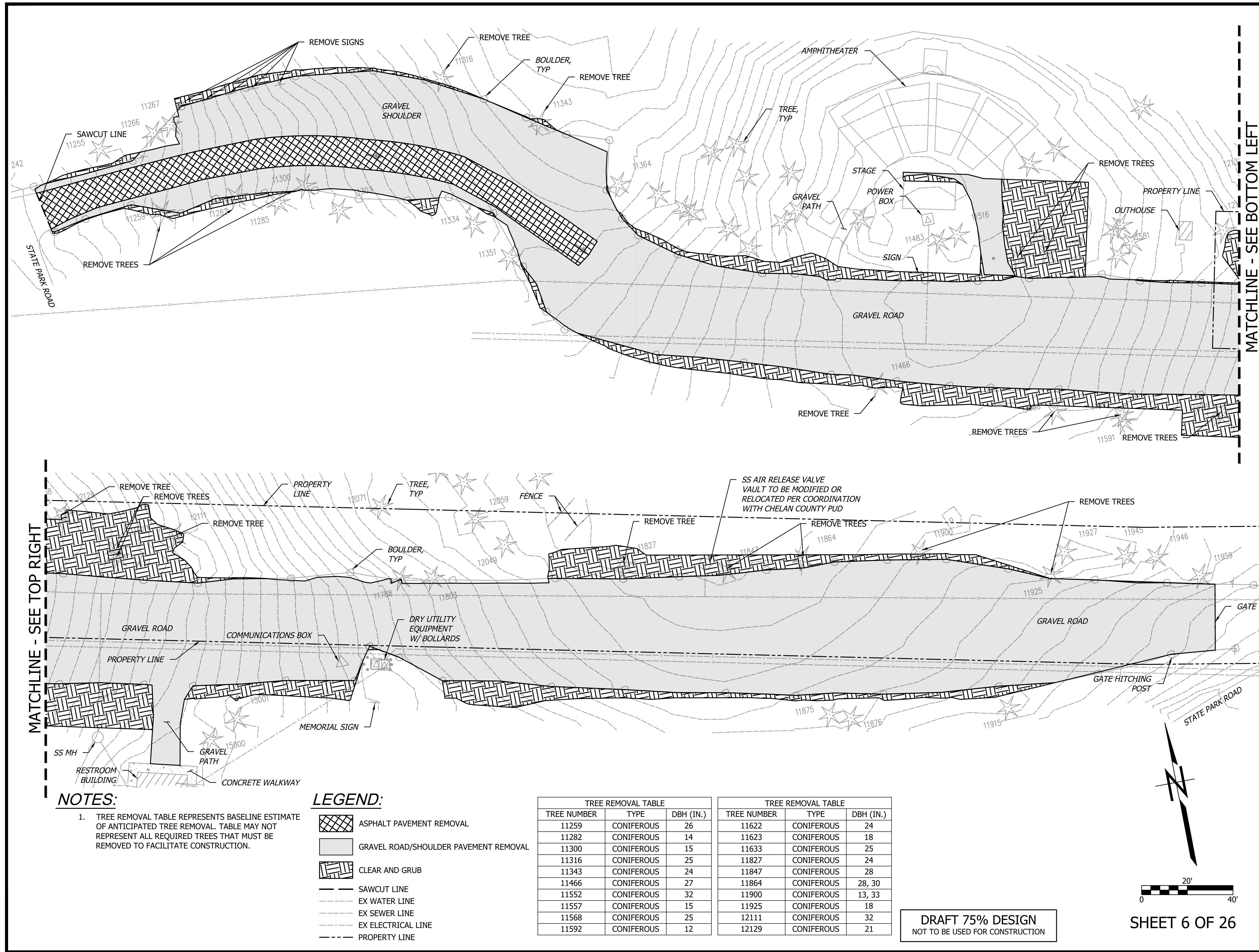
PROJECT SITE PLAN

SCALE
1"=50'

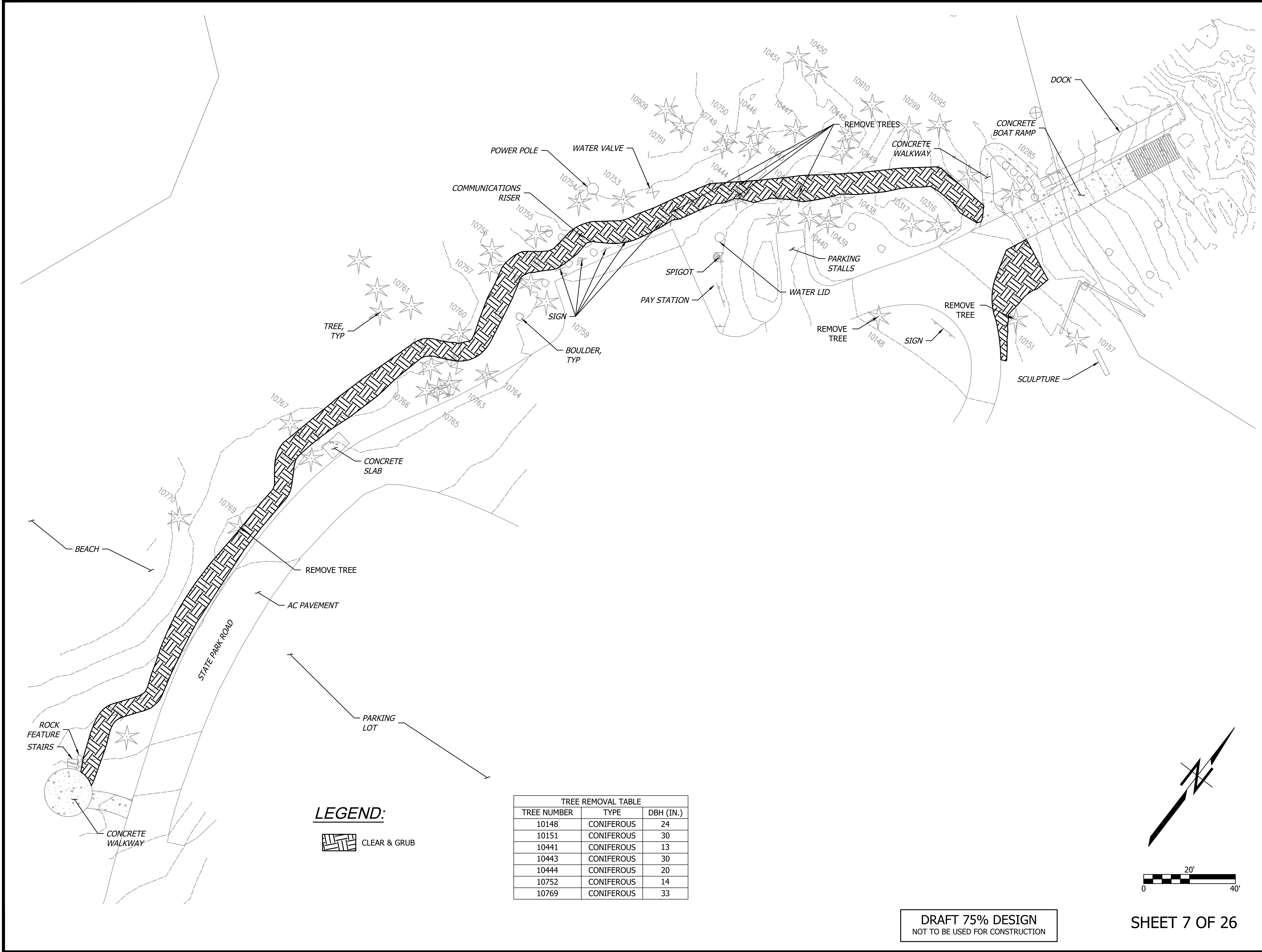
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SHEET 5 OF 26



CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME		
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REVISIONS		
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ACTION	BY	DATE
DESIGNED	JMB	09/13/24
DRAWN	DAP	09/13/24
CHECKED (FIELD)	XXX	XX/XX/XX
CHECKED (HDQTS.)	XXX	XX/XX/XX
PROJECT ENGINEER		
WASHINGTON STATE PARKS AND RECREATION COMMISSION		
LAKE WENATCHEE STATE PARK		
BOAT LAUNCH IMPROVEMENTS PROJECT		
DEMOLITION PLAN - OVERFLOW ROAD		
SCALE 1"=20'		
PARKS FILE#		



TREE REMOVAL TABLE		
TREE NUMBER	TYPE	DBH (IN.)
10148	CONIFEROUS	24
10151	CONIFEROUS	30
10441	CONIFEROUS	13
10443	CONIFEROUS	30
10444	CONIFEROUS	20
10752	CONIFEROUS	14
10769	CONIFEROUS	33

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SHEET 7 OF 26

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	DATE	
	APP.	
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		REVISIONS
		NO.

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DESIGNED	JMB	09/13/24
DRAWN	DAP	09/13/24
CHECKED (FIELD)	XXX	XX/XX/XX
CHECKED (HDQTS.)	XXX	XX/XX/XX

PROJECT ENGINEER

WASHINGTON
STATE
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COMMISSION



LAKE WENATCHEE
STATE PARK

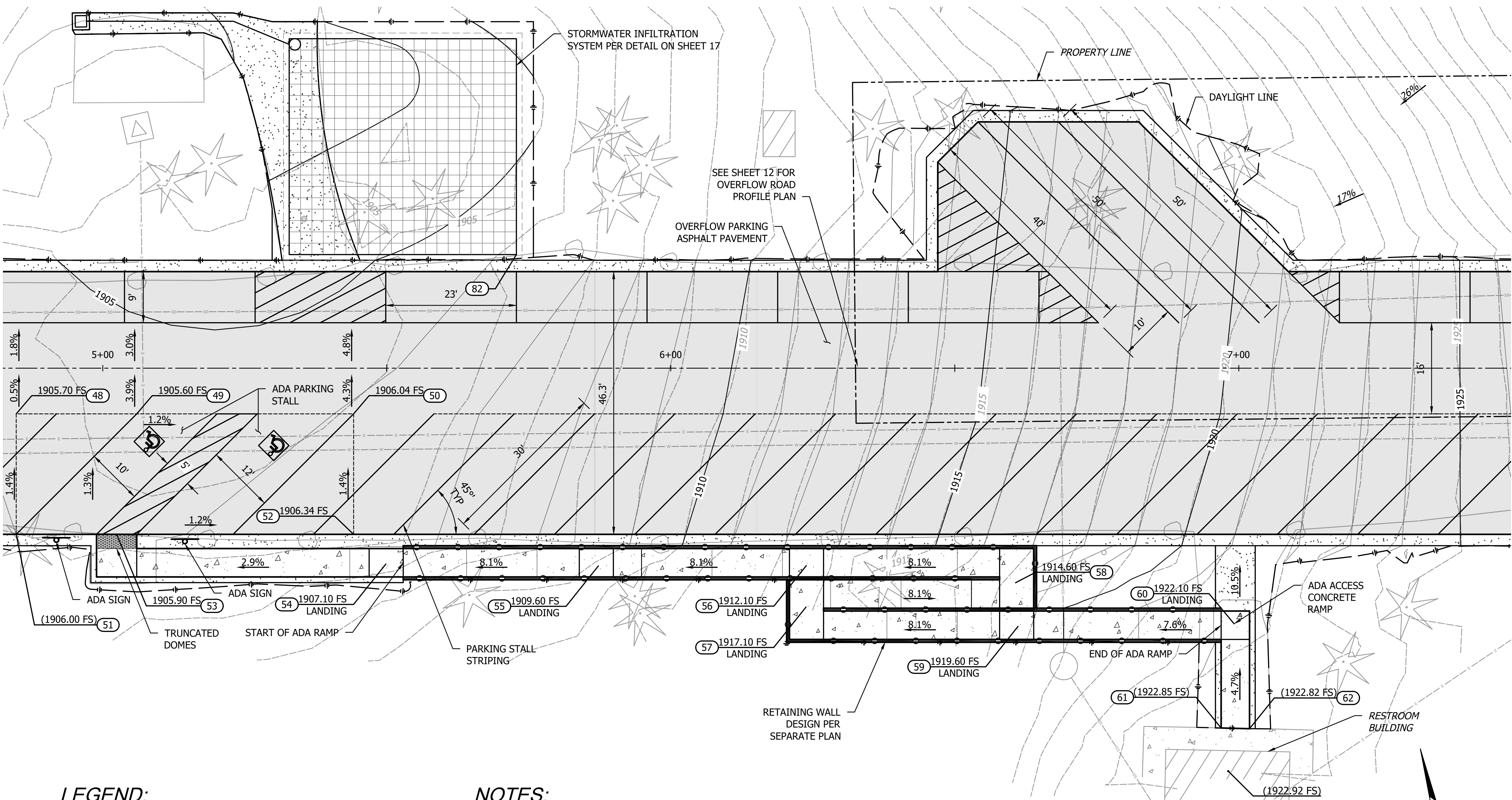
BOAT LAUNCH
IMPROVEMENTS
PROJECT

DEMOLITION PLAN -
PEDESTRIAN PATH

SCALE

1"=20'

PARKS FILE#



LEGEND:

- CONCRETE PEDESTRIAN PAVEMENT (4" PCC / 4" CSBC)
- ASPHALT VEHICULAR PAVEMENT (3" ACP / 4" CSBC / SUBBASE) - SEE NOTE 1
- GRAVEL PAVEMENT (4" CSTC)
- DAYLIGHT LINE
- GRADE BREAK LINE
- PROPOSED CONTOUR
- EXISTING CONTOUR
- PROPERTY LINE
- CONTROL POINT (SEE SHEET 16 FOR TABLE)

NOTES:

- ASPHALT VEHICULAR PAVEMENT SUBBASE SHALL CONSIST OF 6" OF SELECT GRANULAR FILL TO PROVIDE UNIFORM GRADING AND PAVEMENT SUPPORT, TO MAINTAIN DRAINAGE, AND TO PROVIDE SEPARATION FROM FINE-GRAINED SUBGRADE SOIL. SUBBASE SHALL BE ELIMINATED WITHIN THE EXISTING ROAD AND PARKING AREAS WHERE THE EXISTING SUBGRADE IS IN A VERY DENSE CONDITION.

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SHEET 9 OF 26

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PROJECT ENGINEER

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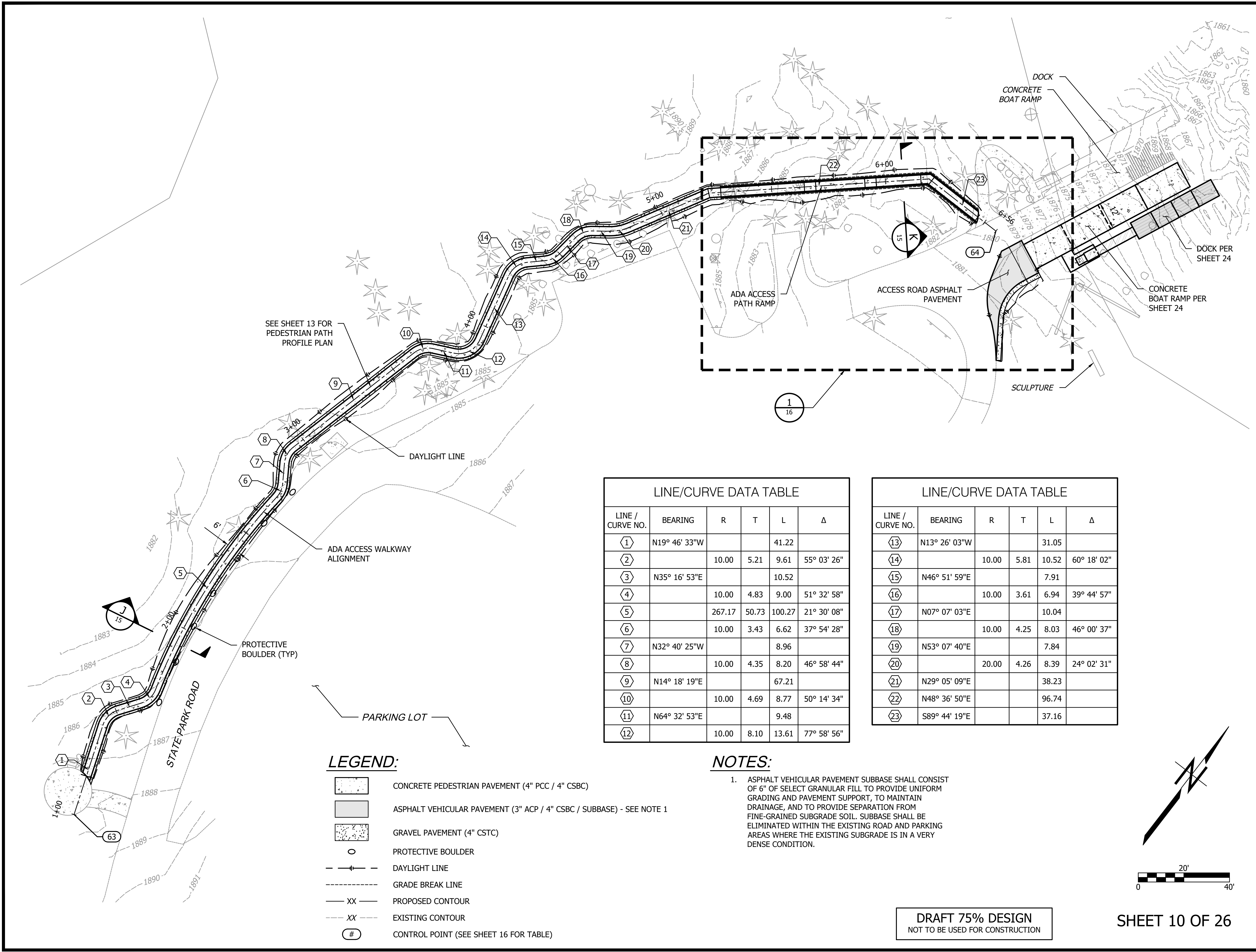
LAKE WENATCHEE
STATE PARK

BOAT LAUNCH
IMPROVEMENTS
PROJECT

LAYOUT & GRADING
PLAN - OVERFLOW
ROAD ADA PARKING
AREA

SCALE
1"=10'

PARKS FILE#



LEGEND:

- CONCRETE PEDESTRIAN PAVEMENT (4" PCC / 4" CSBC)
- ASPHALT VEHICULAR PAVEMENT (3" ACP / 4" CSBC / SUBBASE) - SEE NOTE 1
- GRAVEL PAVEMENT (4" CSTC)
- PROTECTIVE BOULDER
- DAYLIGHT LINE
- GRADE BREAK LINE
- PROPOSED CONTOUR
- EXISTING CONTOUR
- CONTROL POINT (SEE SHEET 16 FOR TABLE)

LINE/CURVE DATA TABLE					
LINE / CURVE NO.	BEARING	R	T	L	Δ
1	N19° 46' 33"W			41.22	
2		10.00	5.21	9.61	55° 03' 26"
3	N35° 16' 53"E			10.52	
4		10.00	4.83	9.00	51° 32' 58"
5		267.17	50.73	100.27	21° 30' 08"
6		10.00	3.43	6.62	37° 54' 28"
7	N32° 40' 25"W			8.96	
8		10.00	4.35	8.20	46° 58' 44"
9	N14° 18' 19"E			67.21	
10		10.00	4.69	8.77	50° 14' 34"
11	N64° 32' 53"E			9.48	
12		10.00	8.10	13.61	77° 58' 56"

NOTES:

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LINE/CURVE DATA TABLE					
LINE / CURVE NO.	BEARING	R	T	L	Δ
13	N13° 26' 03"W			31.05	
14		10.00	5.81	10.52	60° 18' 02"
15	N46° 51' 59"E			7.91	
16		10.00	3.61	6.94	39° 44' 57"
17	N07° 07' 03"E			10.04	
18		10.00	4.25	8.03	46° 00' 37"
19	N53° 07' 40"E			7.84	
20		20.00	4.26	8.39	24° 02' 31"
21	N29° 05' 09"E			38.23	
22	N48° 36' 50"E			96.74	
23	S89° 44' 19"E			37.16	

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SHEET 10 OF 26

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DESIGNED	JMB	09/13/24
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CHECKED (FIELD)	XXX	XX/XX/XX
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PROJECT ENGINEER

WASHINGTON
STATE
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AND
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COMMISSION



LAKE WENATCHEE
STATE PARK

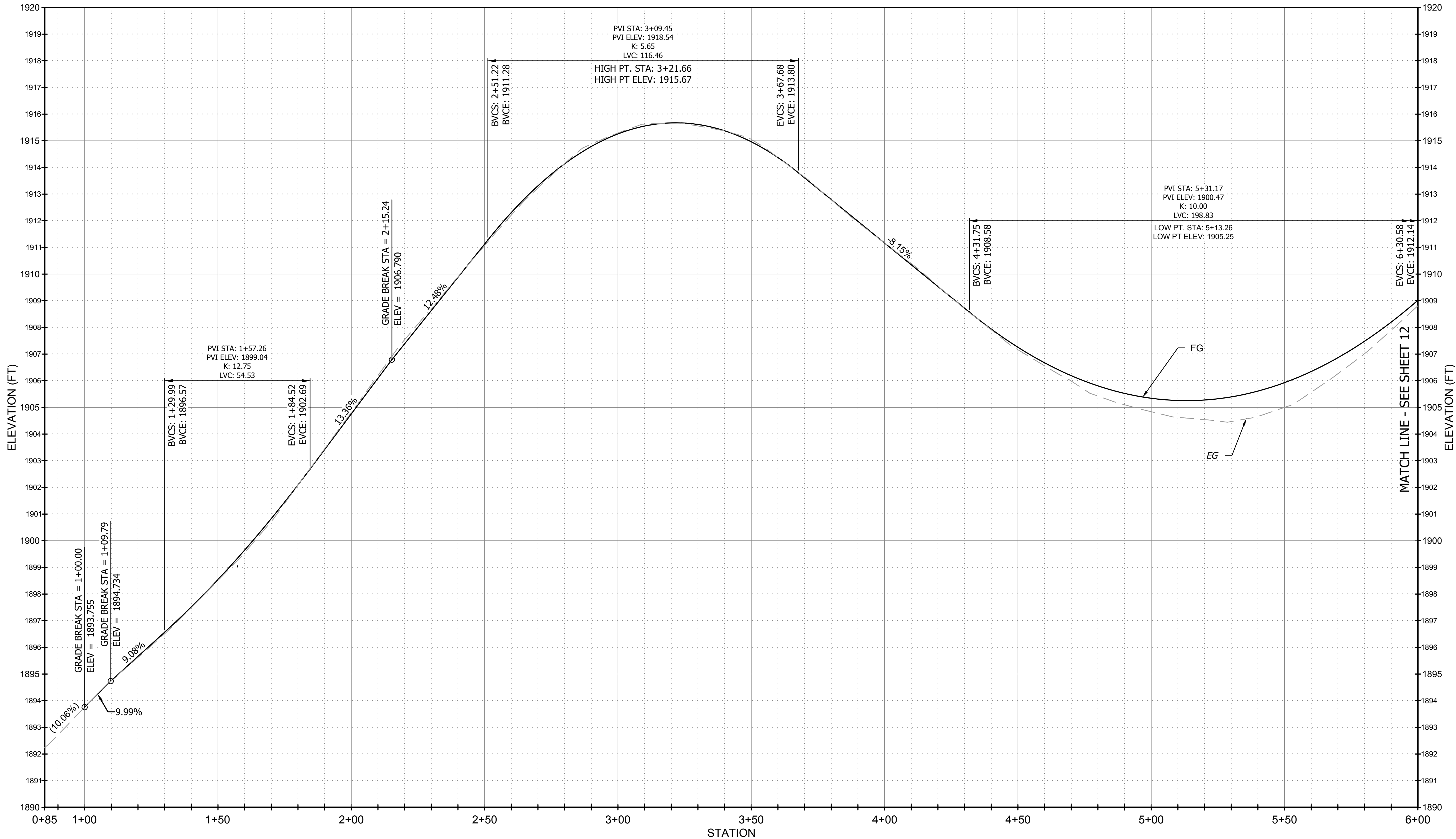
BOAT LAUNCH
IMPROVEMENTS
PROJECT

LAYOUT & GRADING
PLAN - PEDESTRIAN
PATH

SCALE

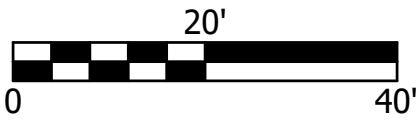
1"=20'

PARKS FILE#



OVERFLOW ROAD PROFILE

HORIZ. SCALE: 1"=20'
VERT SCALE: 1"=2'



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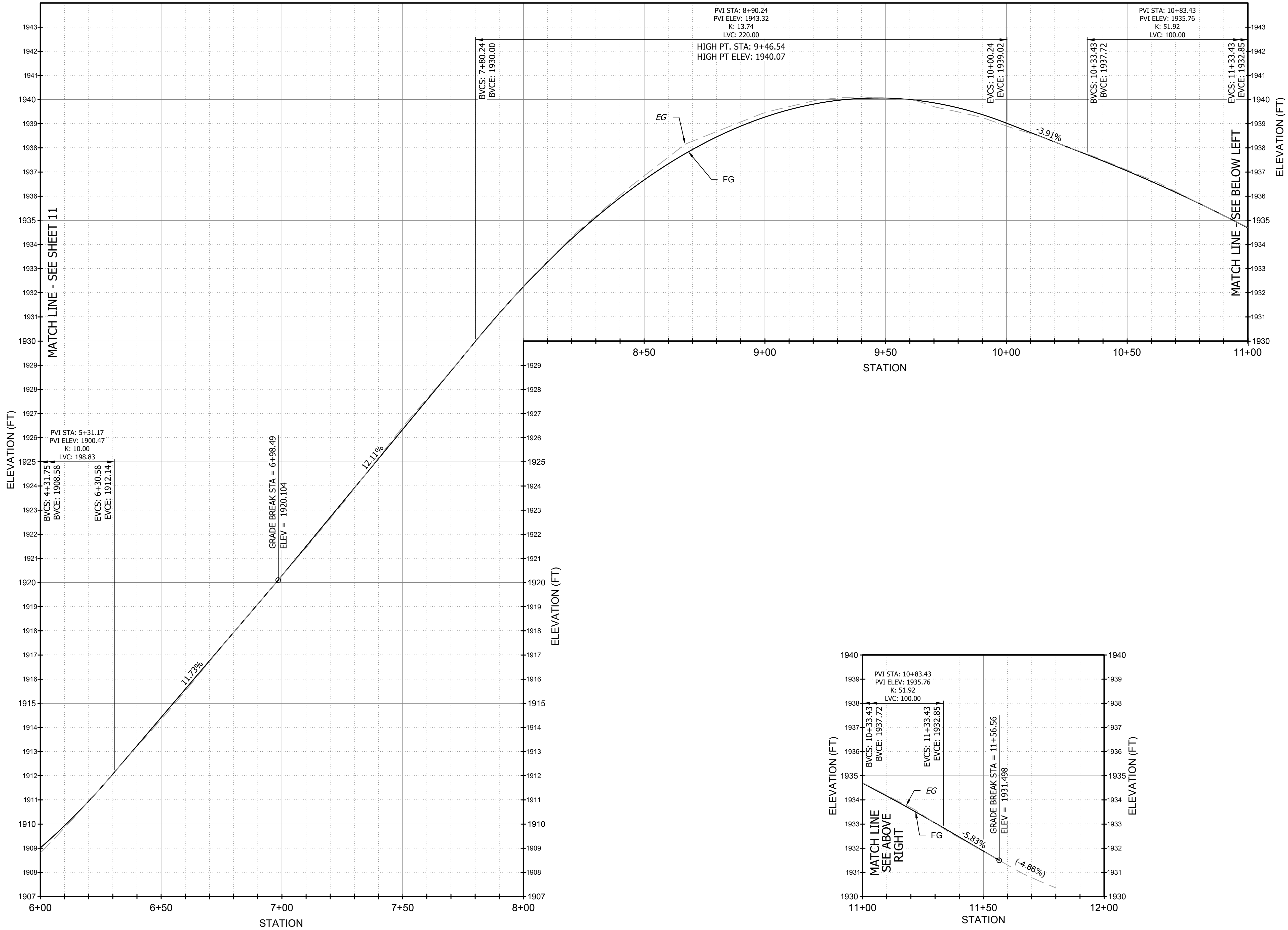
LAKE WENATCHEE
STATE PARK

BOAT LAUNCH
IMPROVEMENTS
PROJECT

PROFILE PLAN -
OVERFLOW ROAD -
1 OF 2

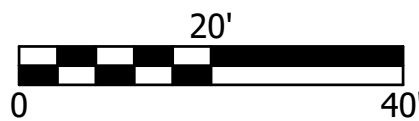
SCALE
1"=20'

PARKS FILE#



OVERFLOW ROAD PROFILE

HORIZ. SCALE: 1"=20'
VERT SCALE: 1"=2'



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SHEET 12 OF 26

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CHECKED (FIELD)	XXX	XX/XX/XX
CHECKED (HDQTS.)	XXX	XX/XX/XX

PROJECT ENGINEER

WASHINGTON
STATE
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AND
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COMMISSION



LAKE WENATCHEE
STATE PARK

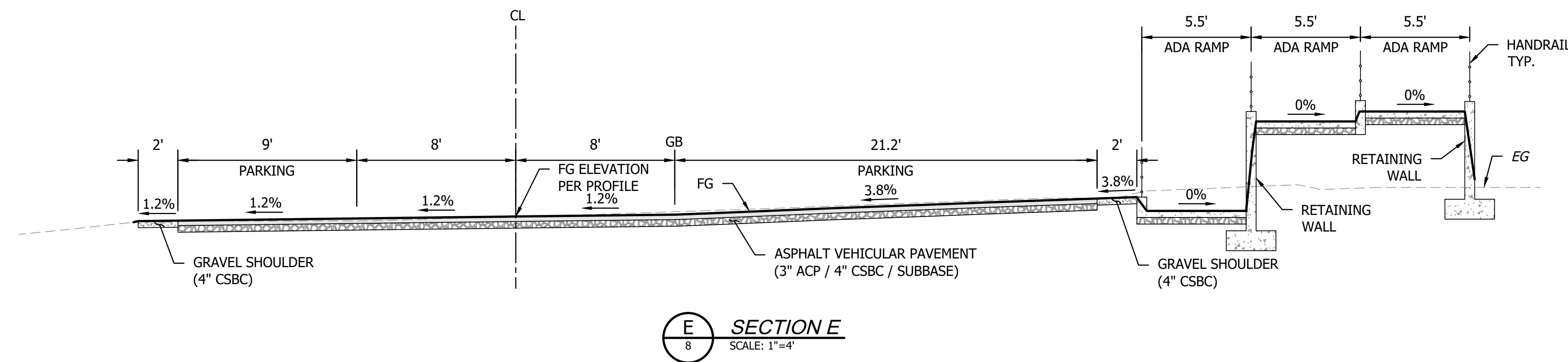
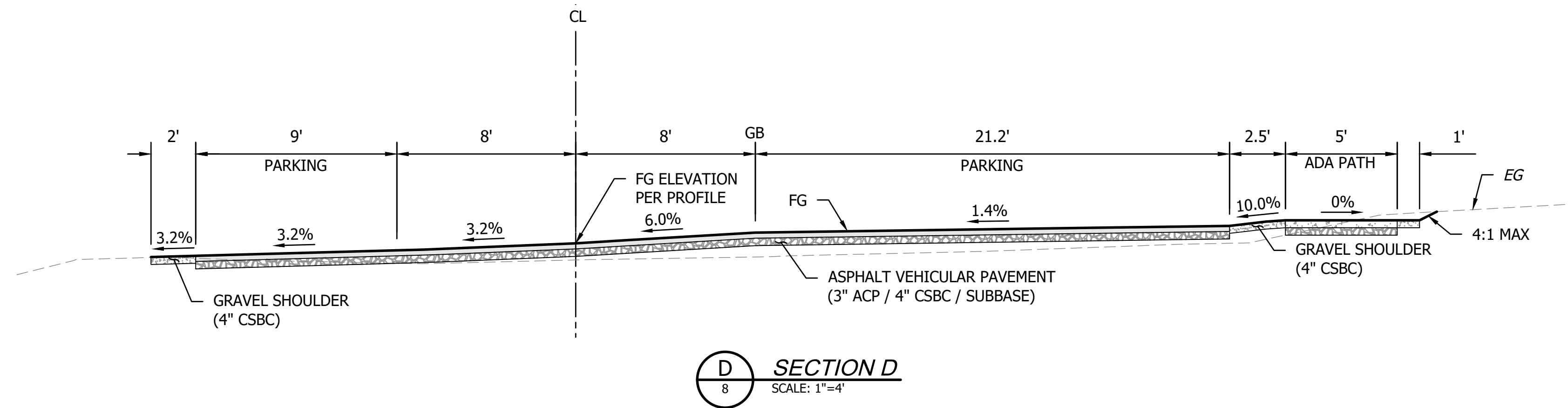
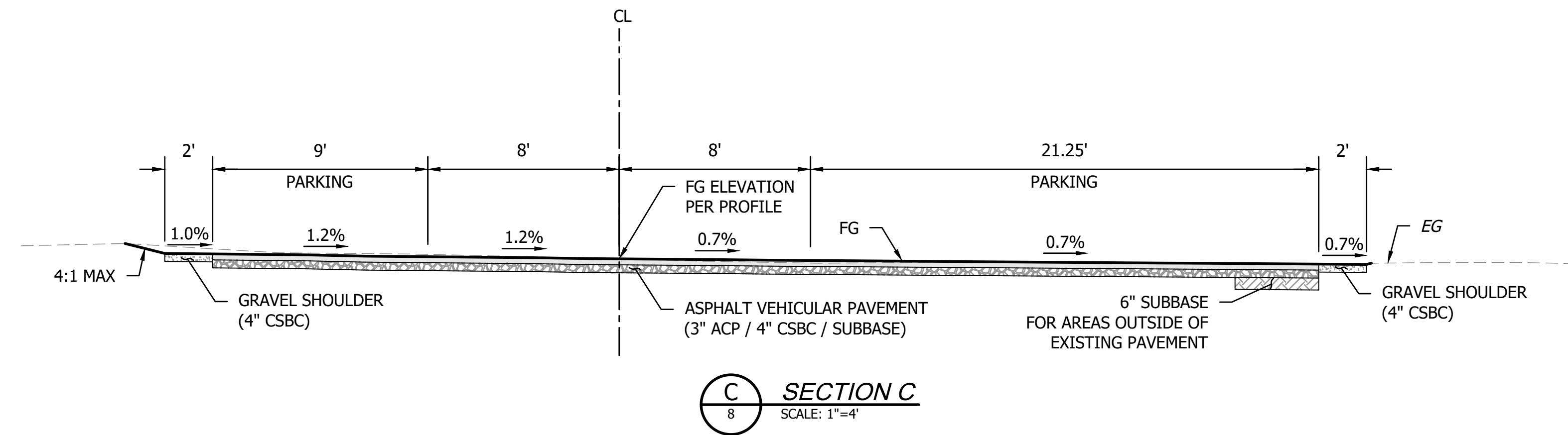
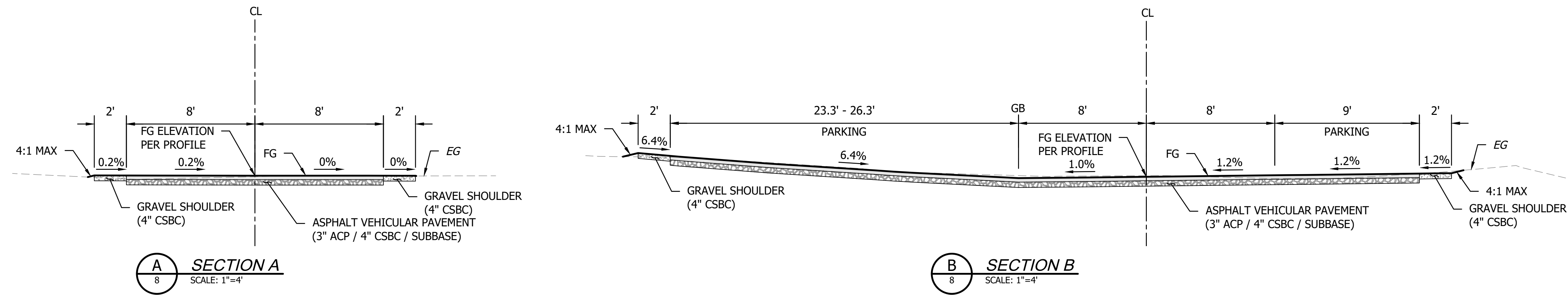
BOAT LAUNCH
IMPROVEMENTS
PROJECT

PROFILE PLAN -
OVERFLOW ROAD -
2 OF 2

SCALE

1"=20'

PARKS FILE#



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SHEET 14 OF 26

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

DATE
APP.
INT.
NO.

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DESIGNED	JMB	09/13/24
DRAWN	DAP	09/13/24
CHECKED (FIELD)	XXX	XX/XX/XX
CHECKED (HDQTS.)	XXX	XX/XX/XX

PROJECT ENGINEER

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RECREATION
COMMISSION



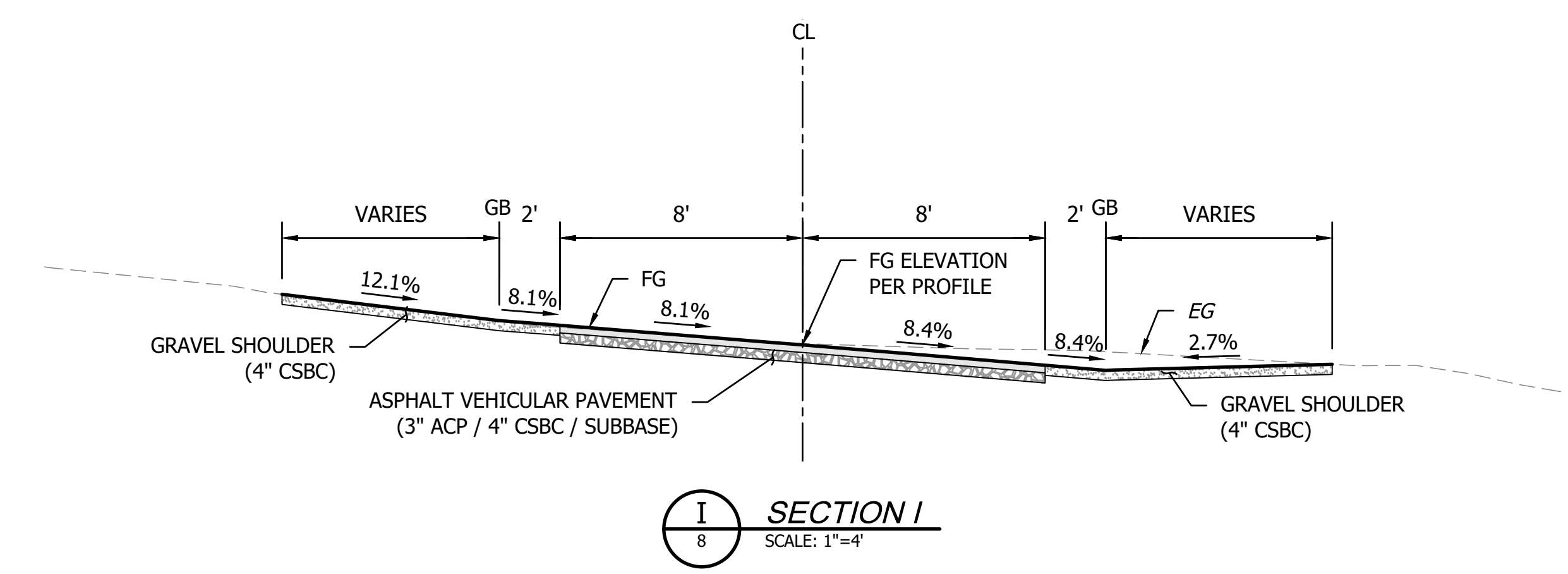
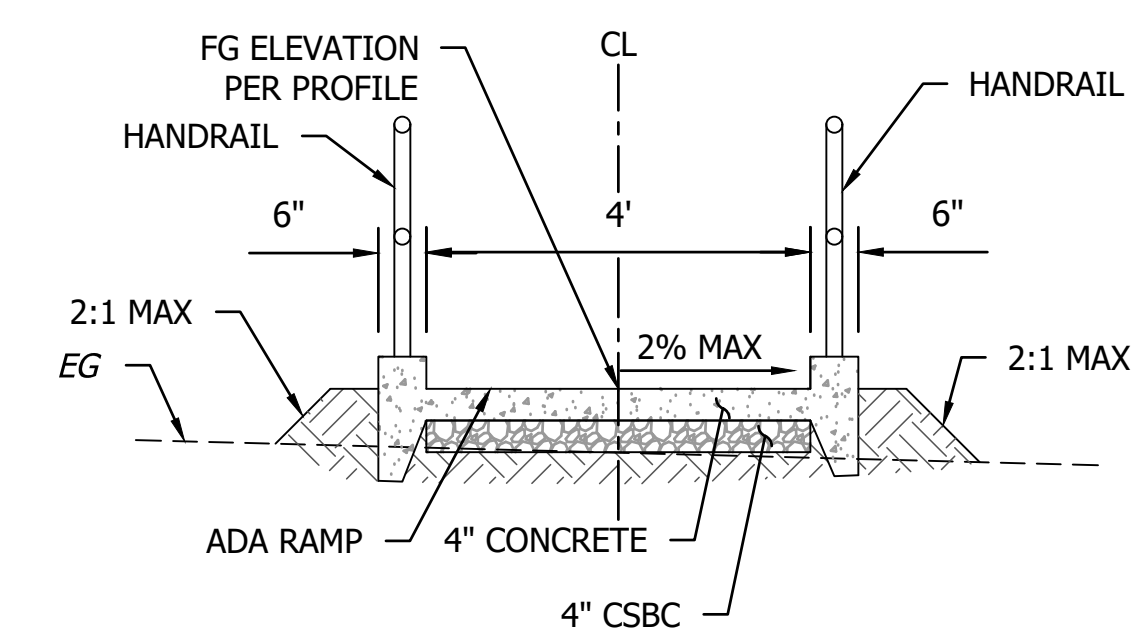
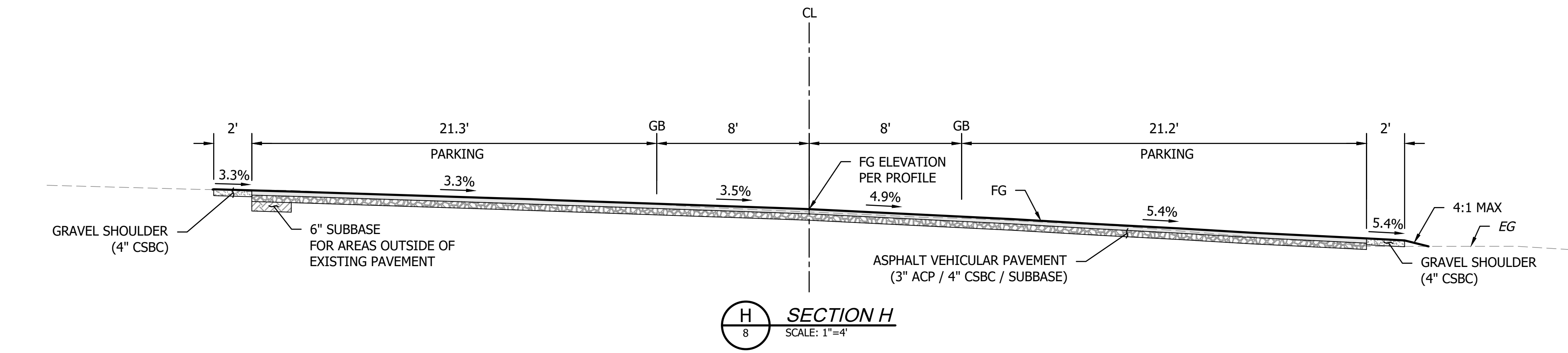
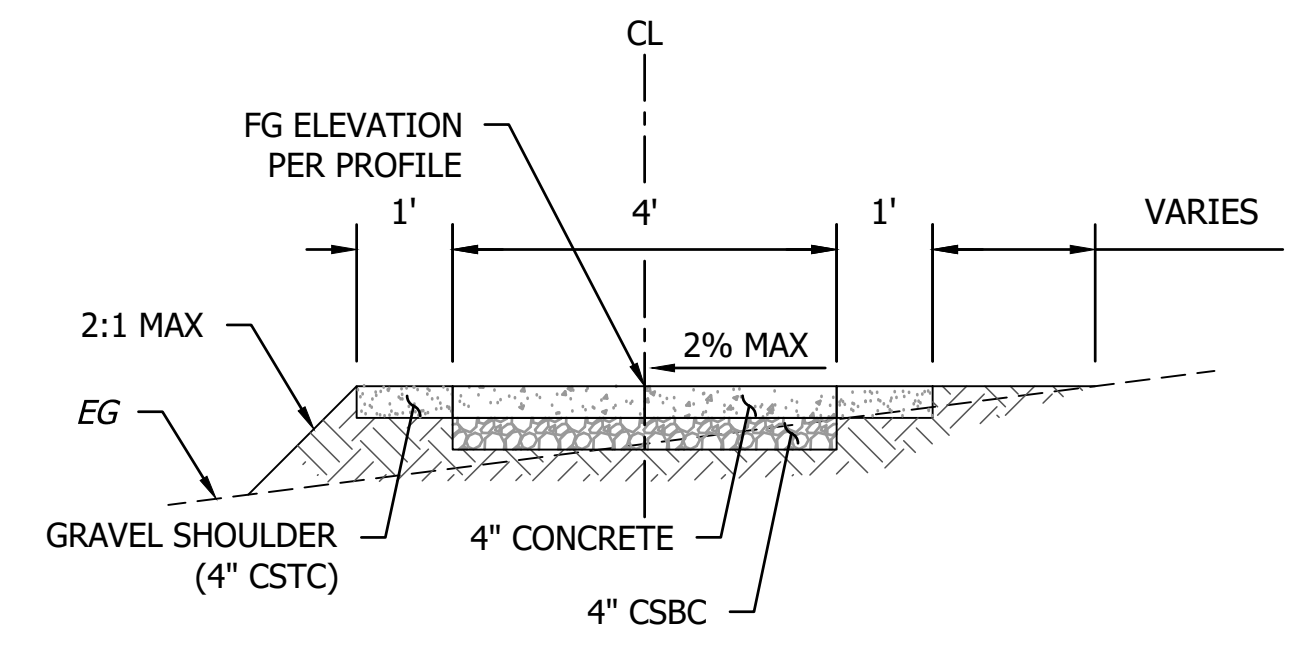
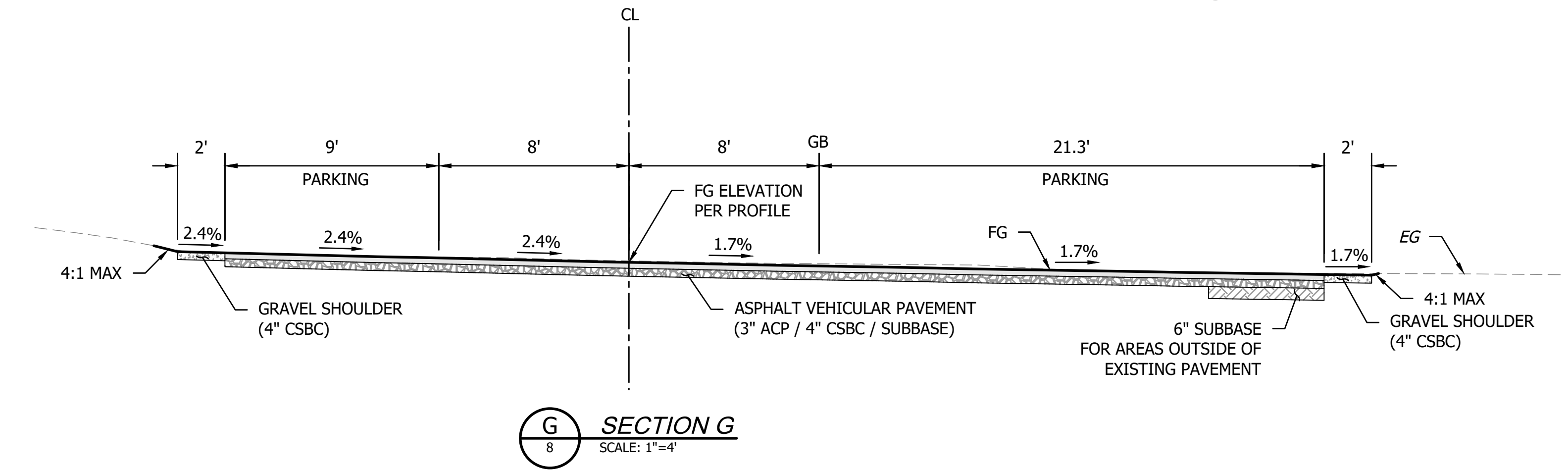
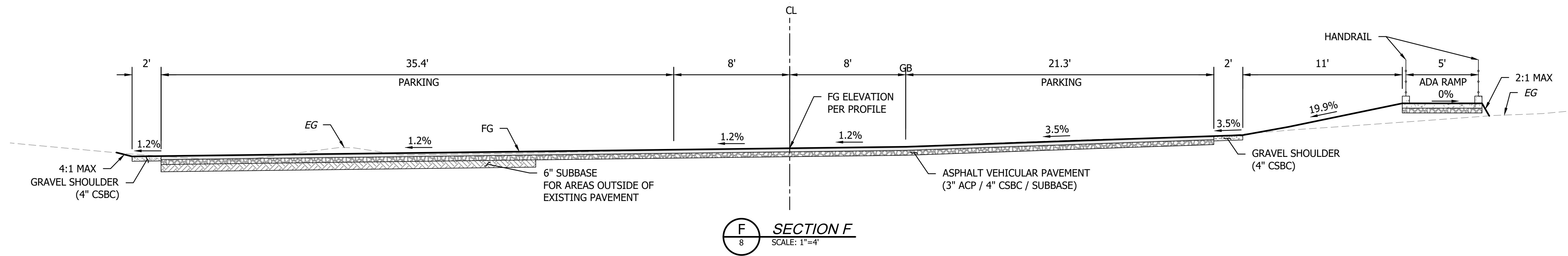
LAKE WENATCHEE
STATE PARK

BOAT LAUNCH
IMPROVEMENTS
PROJECT

CIVIL SECTIONS
SHEET - 1 OF 2

SCALE
NTS

PARKS FILE#



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NOT TO BE USED FOR CONSTRUCTION

SHEET 15 OF 26

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

DATE

APP.

INT.

NO.

REVISIONS

ACTION	BY	DATE
DESIGNED	JMB	09/13/24
DRAWN	DAP	09/13/24
CHECKED (FIELD)	XXX	XX/XX/XX
CHECKED (HDQTS.)	XXX	XX/XX/XX

PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION

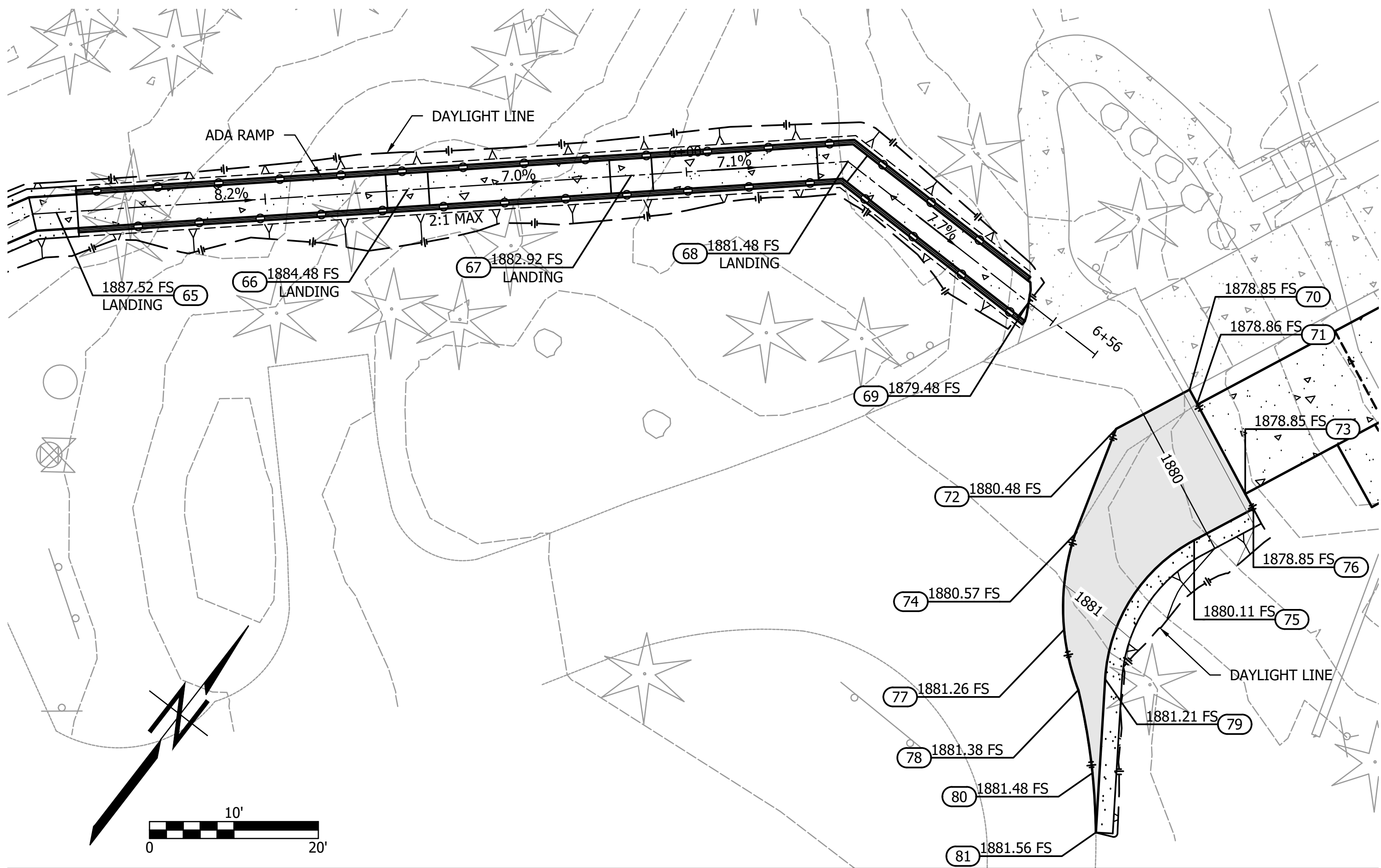
LAKE WENATCHEE
STATE PARK

BOAT LAUNCH
IMPROVEMENTS
PROJECT

CIVIL SECTIONS
SHEET - 2 OF 2

SCALE
NTS

PARKS FILE#



1
10 ADA RAMP / BOAT ACCESS
SCALE: 1"=10'

CONTROL POINT DATA			CONTROL POINT DATA			CONTROL POINT DATA			CONTROL POINT DATA			CONTROL POINT DATA		
POINT No.	NORTHING	EASTING	POINT No.	NORTHING	EASTING	POINT No.	NORTHING	EASTING	POINT No.	NORTHING	EASTING	POINT No.	NORTHING	EASTING
1	294124.55	1666667.64	21	293987.50	1666991.89	41	293865.13	1667573.91	61	293902.92	1667209.53	81	294557.52	1666772.71
2	294132.65	1666665.98	22	294057.11	1666932.14	42	293899.39	1667593.15	62	293901.69	1667214.38	82	294011.75	1667107.08
3	294116.19	1666669.36	23	294049.49	1666947.27	43	293882.03	1667598.74	63	294152.91	1666574.68			
4	294136.65	1666692.76	24	294032.22	1667003.80	44	293897.80	1667601.50	64	294602.27	1666738.03			
5	294121.18	1666702.68	25	293992.34	1667178.75	45	293871.58	1667673.68	65	294540.33	1666630.38			
6	294139.09	1666736.33	26	294011.14	1667183.04	46	293887.33	1667676.61	66	294567.88	1666661.65			
7	294113.35	1666723.77	27	294016.46	1667191.50	47	293879.46	1667675.15	67	294585.44	1666681.58			
8	294160.30	1666735.15	28	294010.18	1667219.08	48	294003.99	1667015.00	68	294602.44	1666700.86			
9	294115.27	1666758.19	29	293978.62	1667238.92	49	293999.27	1667035.68	69	294602.31	1666728.03			
10	294162.23	1666769.68	30	293961.60	1667313.61	50	293990.79	1667072.91	70	294605.81	1666749.42			
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CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME		
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		NO.
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CHECKED (HDQTS.)	XXX	XX/XX/XX

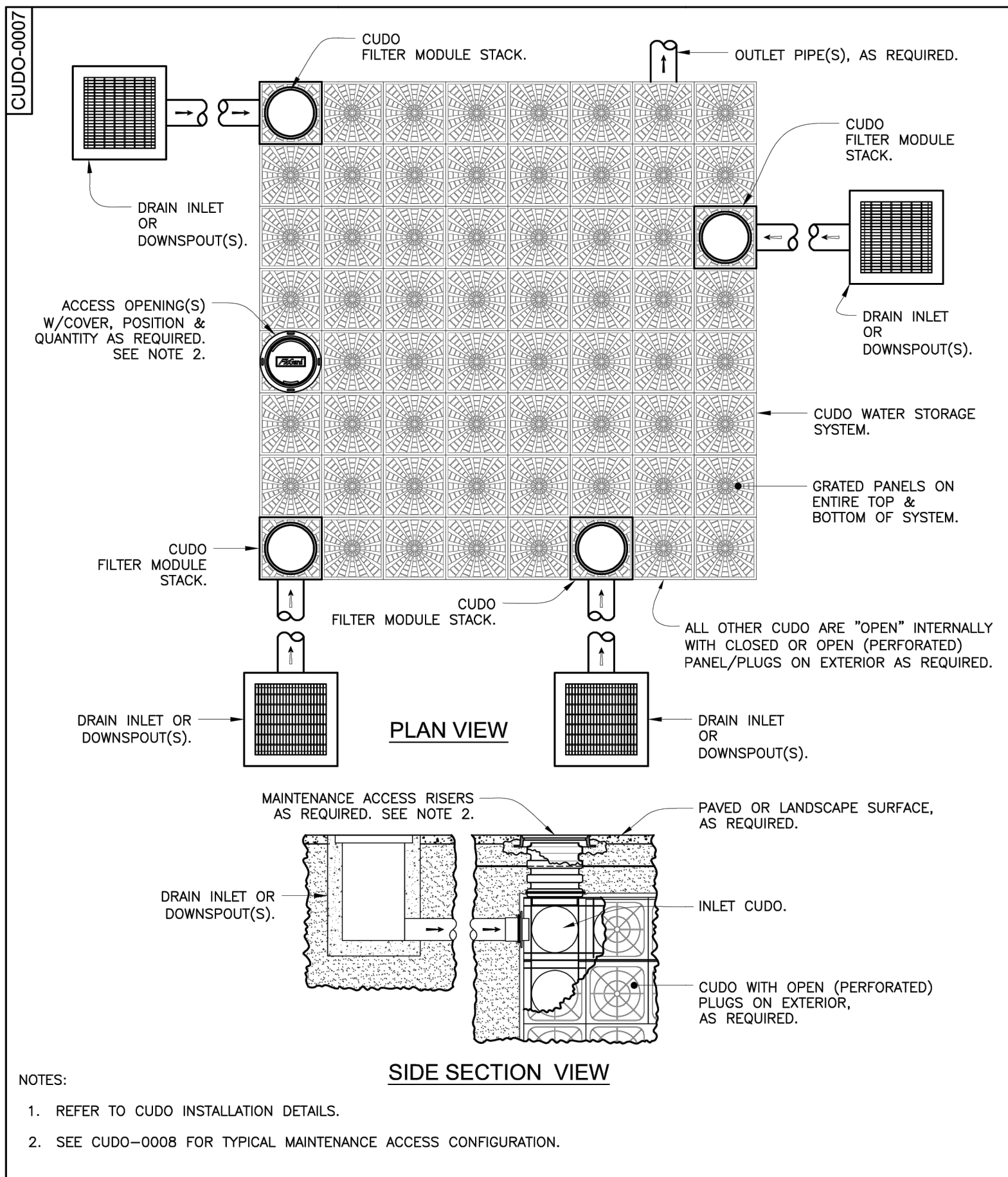
PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



LAKE WENATCHEE
STATE PARK

BOAT LAUNCH
IMPROVEMENTS
PROJECT

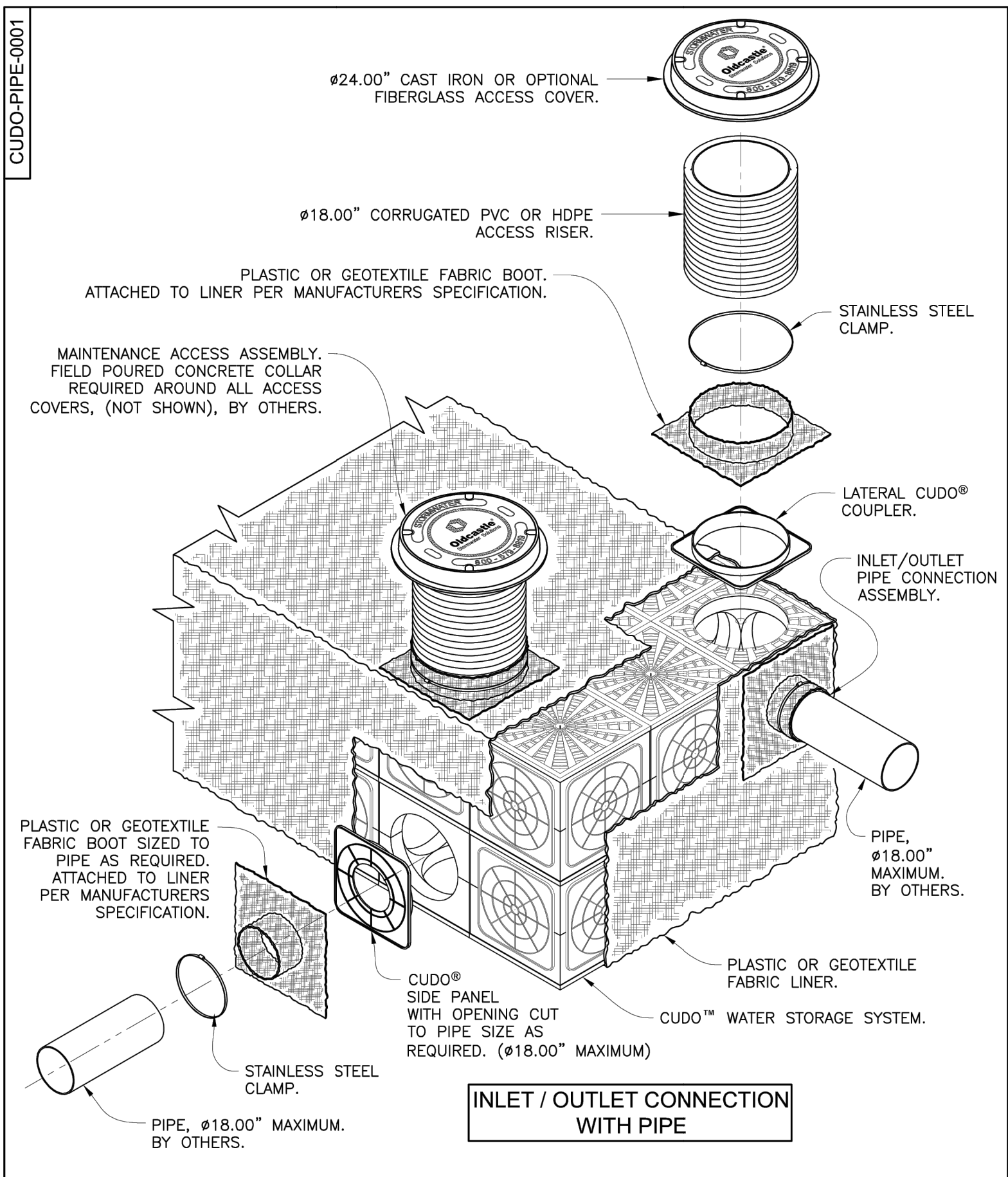


CUDO®
Water Storage System
Typical System Layout
w/ Filter Module Stacks

7921 Southpark Plaza, Suite 200 | Littleton, CO | 80120 | Ph: 800.579.8819 |

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DRAWING NO. CUDO-0007 REV. C EDO ECO-0154 ZHD 2/6/18 DATE JPR 5/2/08 SHEET 1 OF 1

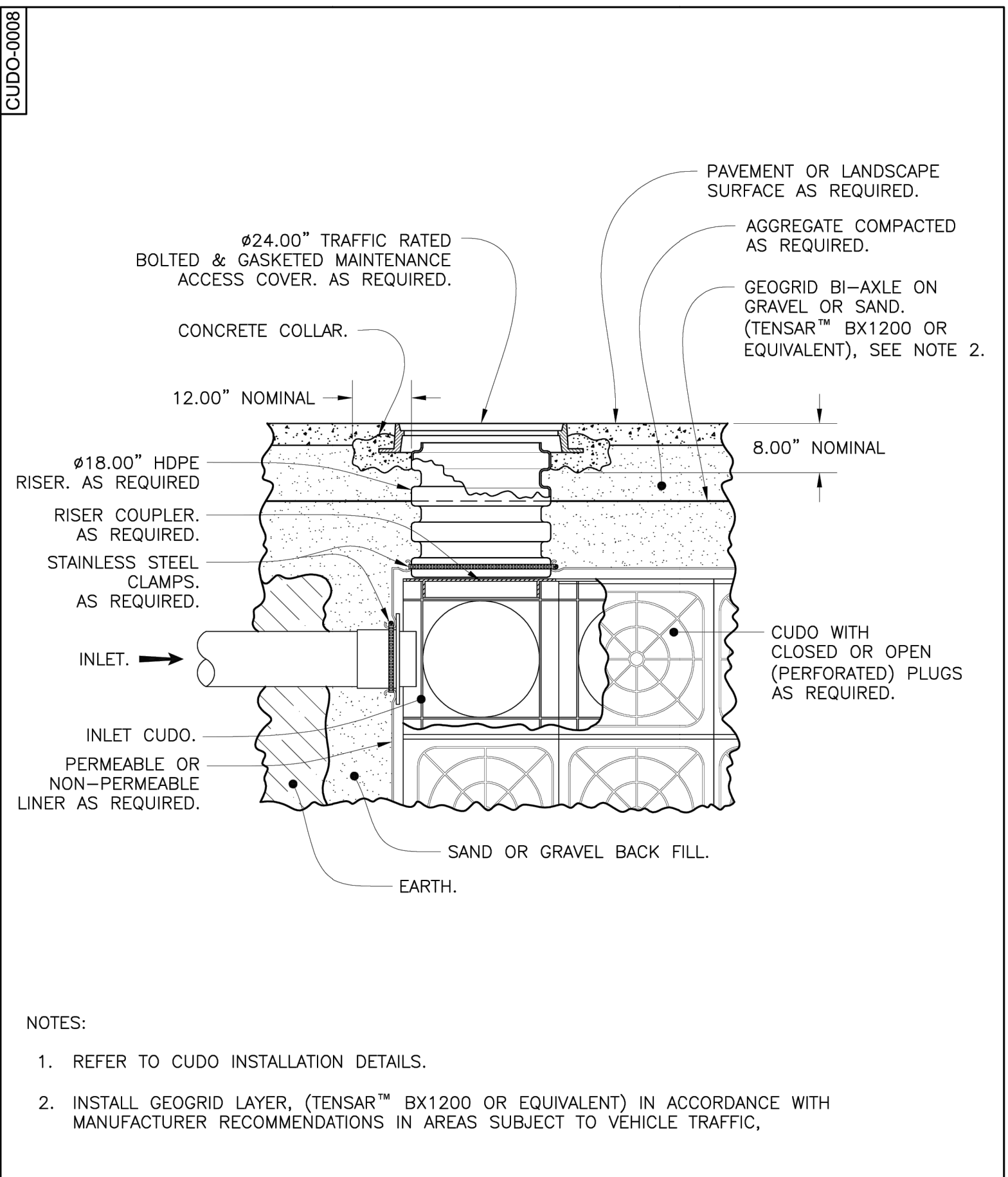


CUDO®
Water Storage System
Pipe Connection & Maintenance
Access Installation Diagram

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DRAWING NO. CUDO-PIPE-0001 REV. B EDO ECO-0154 ZHD 2/6/18 DATE JPR 7/22/08 SHEET 1 OF 2

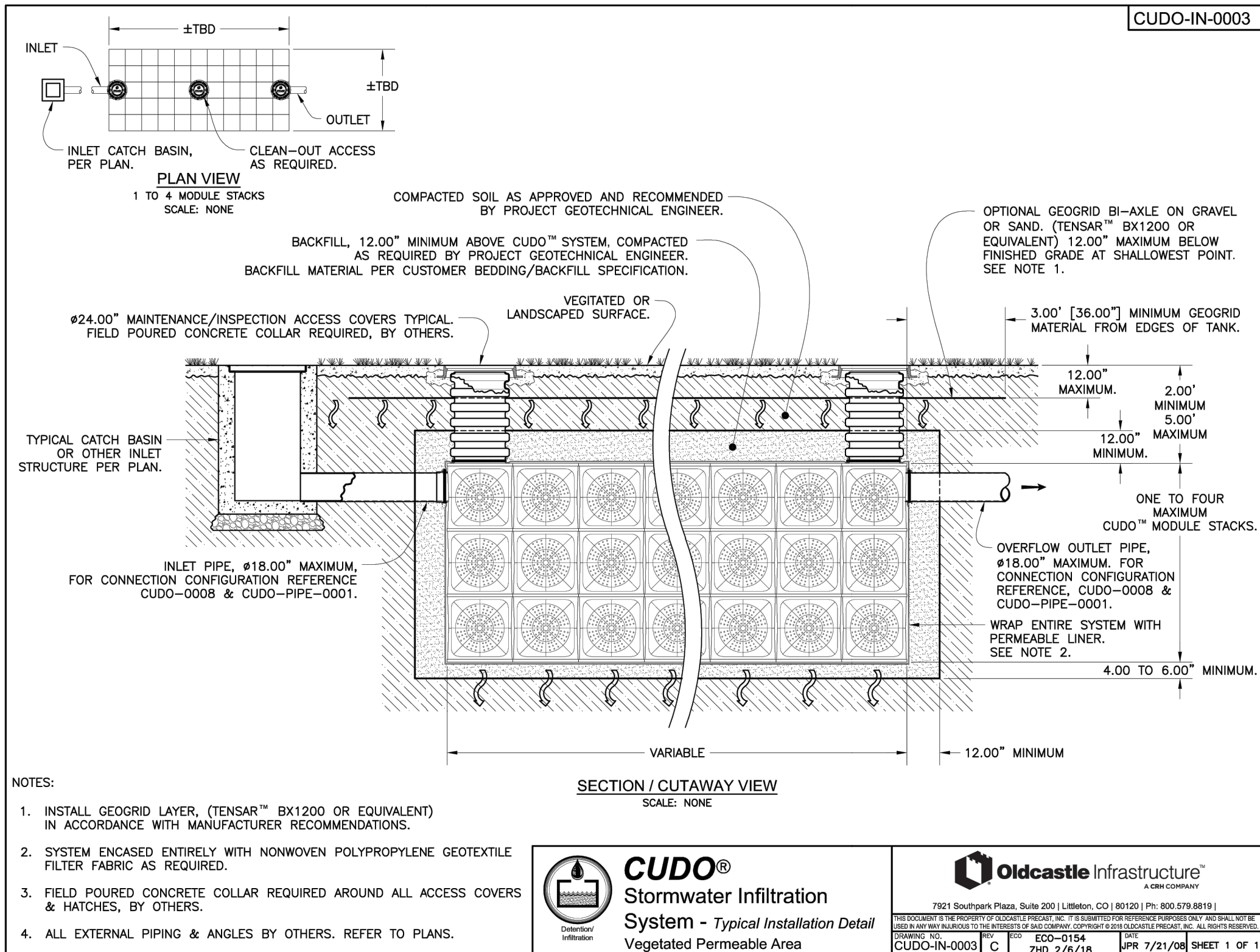


CUDO®
Water Storage System
Typical Maintenance Access

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DRAWING NO. CUDO-0008 REV. C EDO ECO-0154 ZHD 2/6/18 DATE JPR 5/2/08 SHEET 1 OF 1

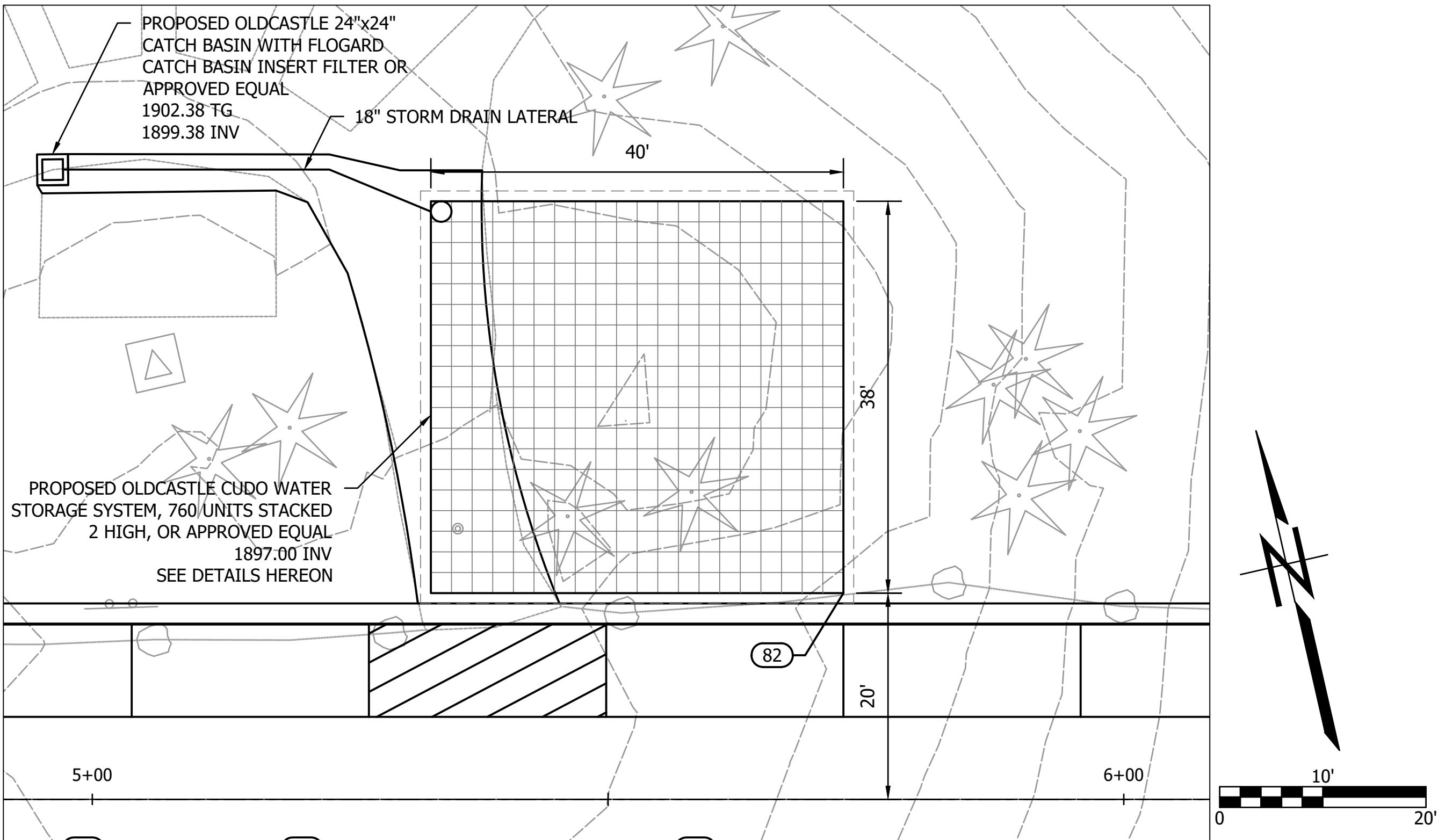


CUDO®
Stormwater Infiltration
System - Typical Installation Detail
Vegetated Permeable Area

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DRAWING NO. CUDO-IN-0003 REV. C EDO ECO-0154 ZHD 2/6/18 DATE JPR 7/21/08 SHEET 1 OF 1



CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

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ACTION	BY	DATE
DESIGNED	JMB	09/13/24
DRAWN	DAP	09/13/24
CHECKED (FIELD)	XXX	XX/XX/XX
CHECKED (HQTS.)	XXX	XX/XX/XX

PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

LAKE WENATCHEE STATE PARK

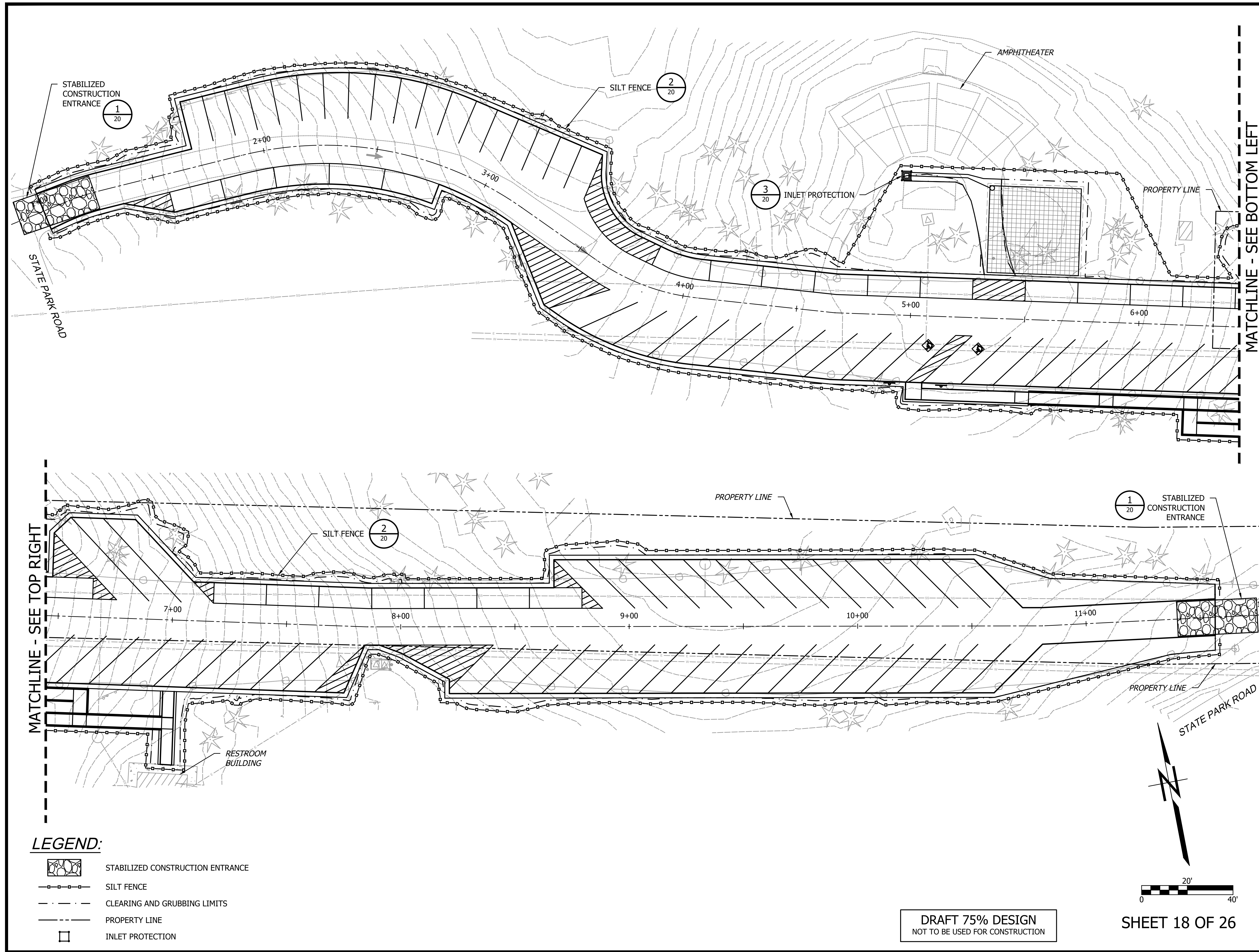
BOAT LAUNCH IMPROVEMENTS PROJECT

CIVIL DETAILS SHEET - 2 OF 2

SCALE

NTS

PARKS FILE#




CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

	DATE
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	NO.

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DRAWN	DAP	09/13/24
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CHECKED (HDQTS.)	XXX	XX/XX/XX

PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



LAKE WENATCHEE
STATE PARK

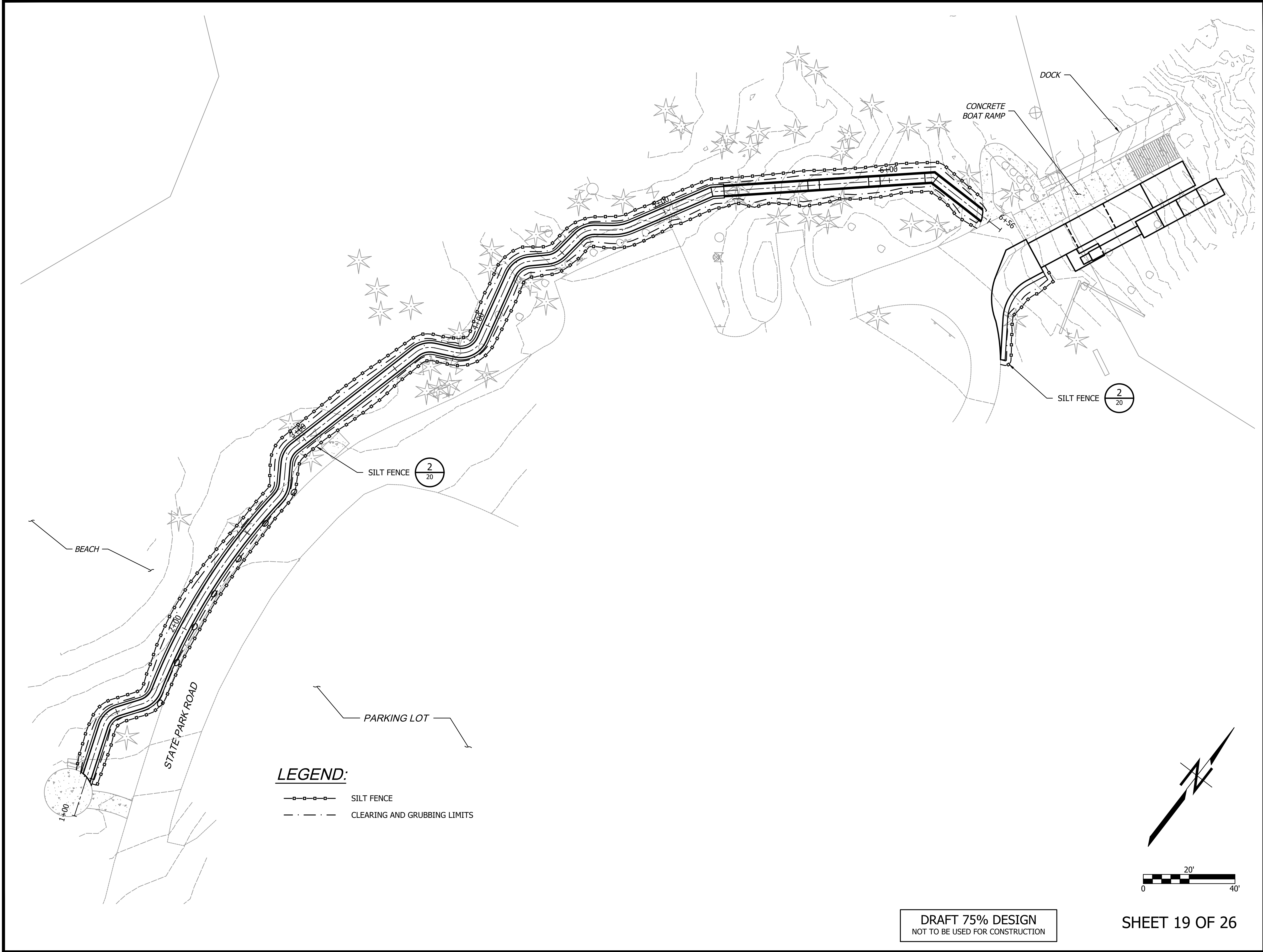
BOAT LAUNCH
IMPROVEMENTS
PROJECT

TEMPORARY EROSION
AND SEDIMENT
CONTROL PLAN -
OVERFLOW ROAD

SCALE

1"=20'

PARKS FILE#



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NOT TO BE USED FOR CONSTRUCTION

SHEET 19 OF 26

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

	DATE
	APP.
	INT.
	NO.
REVISIONS	

ACTION	BY	DATE
DESIGNED	JMB	09/13/24
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PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION

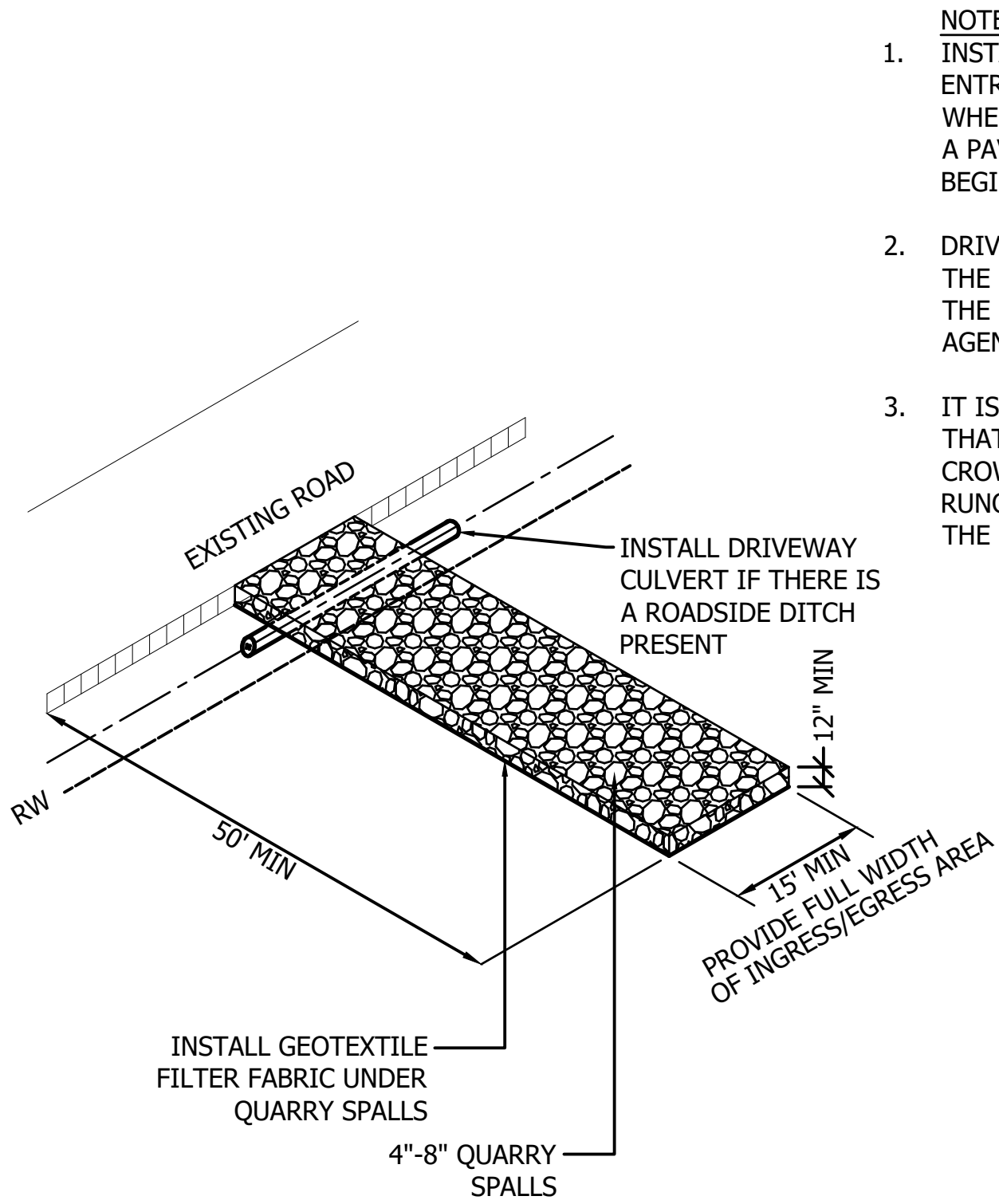


LAKE WENATCHEE
STATE PARK

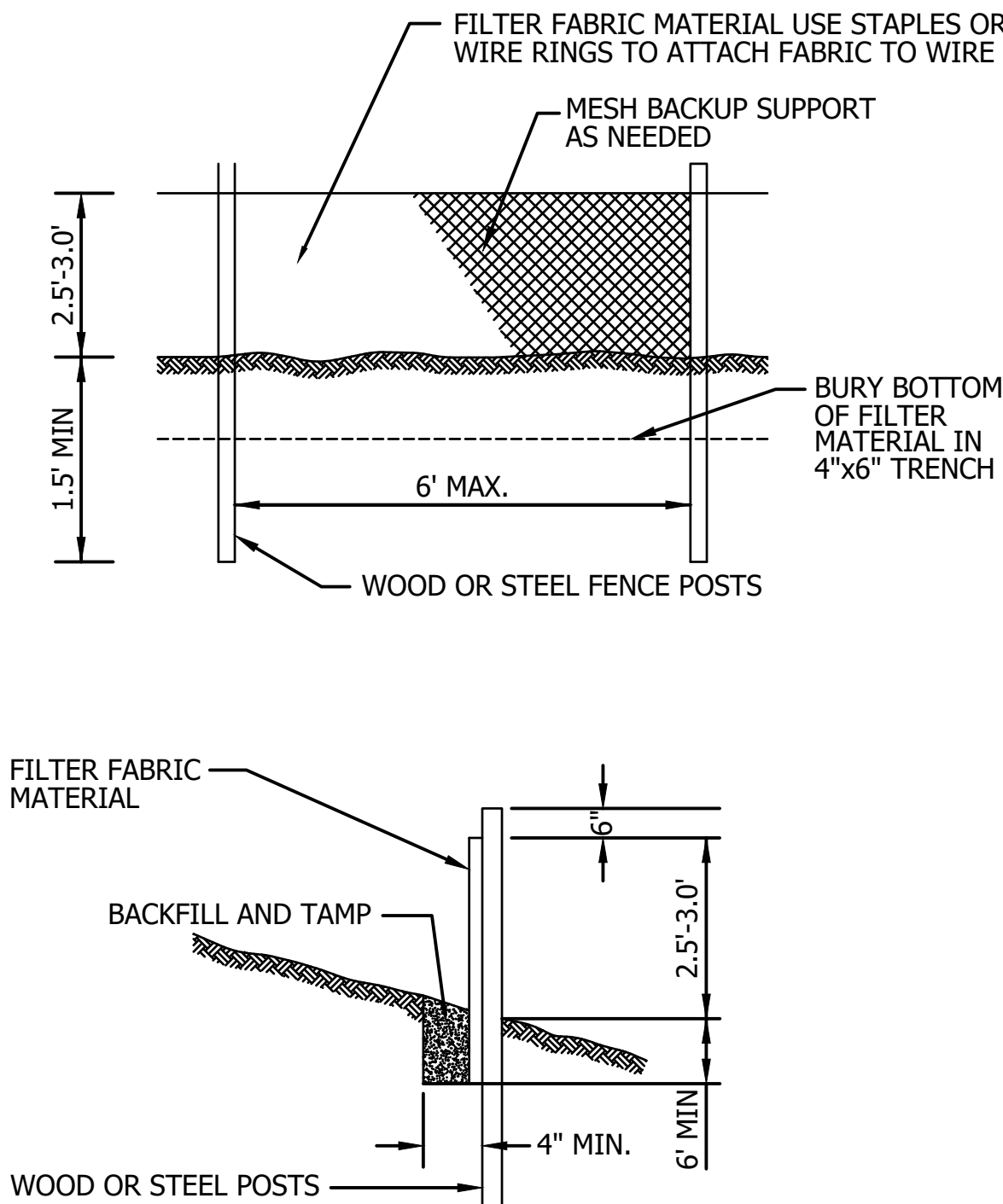
BOAT LAUNCH
IMPROVEMENTS
PROJECT

TEMPORARY EROSION
AND SEDIMENT
CONTROL PLAN -
PEDESTRIAN PATH

SCALE
1"=20'
PARKS FILE#



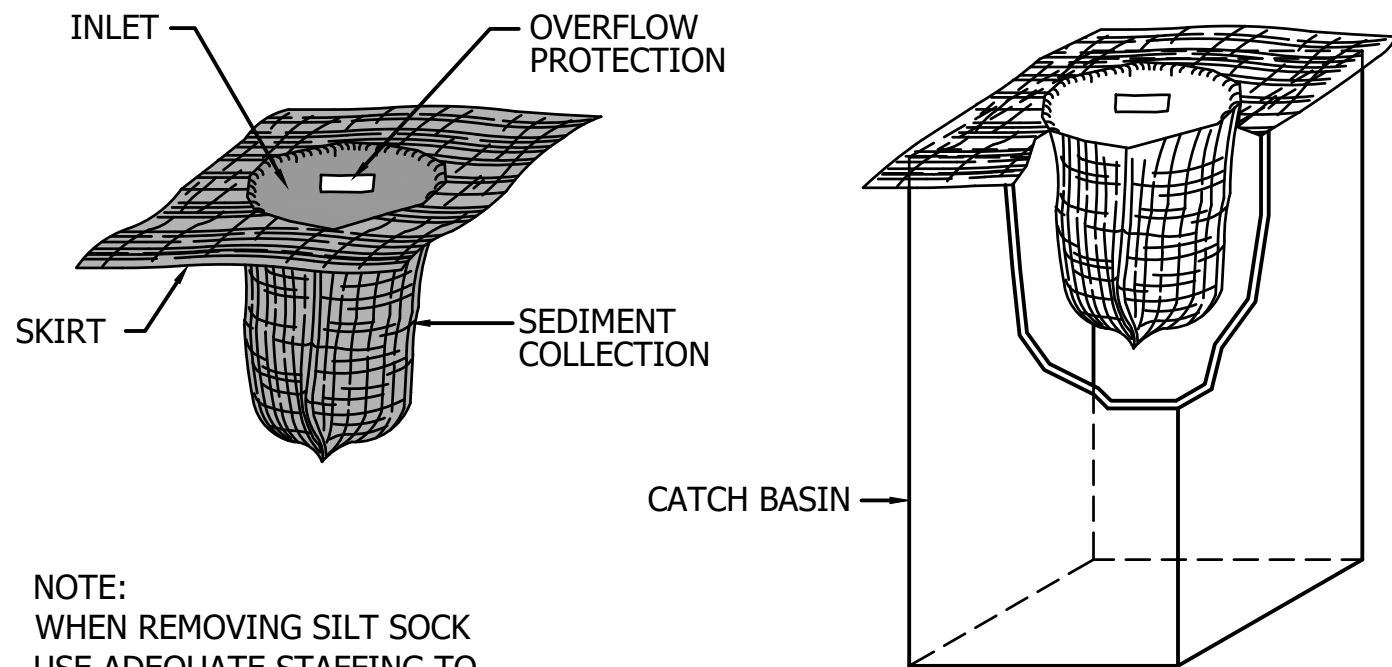
1 STABILIZED CONSTRUCTION ENTRANCE
18 NTS



2 SILT FENCE
18 NTS

GENERAL EROSION CONTROL NOTES (CONTINUED):

8. THE CONSTRUCTION OF TRENCHES (E.G., PIPES, UNDERGROUND UTILITY LINES AND STRUCTURES) SHALL BE SUBJECT TO THE FOLLOWING CRITERIA:
- A. NO MORE THAN 300 FEET OF TRENCH ON A DOWNSLOPE OF MORE THAN FIVE PERCENT SHALL BE OPENED AT ONE TIME.
- B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
9. TRENCH DEWATERING DEVICES SHALL BE DISCHARGED IN A MANNER THAT WILL NOT ADVERSELY AFFECT STREAMS, DRAINAGE SYSTEMS, OR OFF-SITE PROPERTIES.
10. TRACKING OF SOIL, MUD, OR DEBRIS OFF-SITE IS NOT ALLOWED. SOIL, MUD, OR DEBRIS TRACKED ONTO A PUBLIC ROADWAY, SHALL BE REMOVED BY THE END OF THAT WORKING DAY. TO PREVENT THE TRACKING OF SOIL, MUD, OR DEBRIS ONTO PUBLIC ROADWAYS, SWEEPING OR WASHING OF THE VEHICLE'S TIRES MAY BE REQUIRED PRIOR TO ENTERING A PUBLIC ROADWAY.
11. ALL DISTURBED AREAS SHALL BE HYDROSEEDDED WITH EROSION CONTROL SEED MIX. INCLUDING BUT NOT LIMITED TO ROADWAY EMBANKMENTS, SHOULDERS, UTILITY EASEMENTS, STAGING AREAS, CONSTRUCTED WETLANDS AND CUT/FILL SLOPES.
12. ALL SEEDDED OR SODDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE VEGETATIVE COVERAGE IS COMPLETE. AREAS SHALL BE REPAIRED, RESEEDDED, AND FERTILIZED AS REQUIRED.
13. TO MAINTAIN FUNCTION, THE CONTRACTOR SHALL REMOVE AND CLEAN OR REPLACE FILTERS AFTER EACH STORM EVENT. CONTACT THE JURISDICTION TO DETERMINE ITS ACCEPTANCE OF SPECIFIC FILTER PRODUCTS, PRIOR TO INSTALLATION.
14. NO MATERIAL SHALL BE STOCKPILED ON PAVEMENT WITHOUT AUTHORIZATION FROM THE PROJECT ENGINEER OR OWNERS REPRESENTATIVE WHICH WILL BE CONDITIONAL ON IMPLEMENTATION OF A PROCEDURE TO PREVENT SEDIMENT TRANSPORT.
15. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED OR AFTER THE MEASURES ARE NO LONGER NEEDED. SEDIMENT COLLECTED IN TRAPS, PONDS, OR SILT FENCE SHALL BE REMOVED AND DISPOSED IN AN APPROVED MANNER OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM SEDIMENT REMOVAL SHALL BE PERMANENTLY STABILIZED WITHIN SEVEN (7) DAYS.



NOTE:
WHEN REMOVING SILT SOCK
USE ADEQUATE STAFFING TO
ENSURE THE FABRIC AND SILT
DOES NOT FALL INTO THE
CATCH BASIN.

3 INLET PROTECTION
18 NTS

GENERAL EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL FOLLOW EROSION CONTROL PRACTICES OUTLINED IN THE WASHINGTON STATE DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON AND THE SWPPP.
2. EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS ON THESE PLANS. 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.
3. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE BEGINNING OF CONSTRUCTION. THE PROJECT ENGINEER AND THE REVIEWING AGENCY SHALL INSPECT AND APPROVE THE INSTALLATION OF EROSION CONTROL MEASURES PRIOR TO BEGINNING CONSTRUCTION.
- A. INSTALL INLET SEDIMENTATION AS SPECIFIED AT ALL CATCH BASIN LOCATIONS IMMEDIATELY UPON ARRIVAL AT PROJECT/CONSTRUCTION SITE.
- B. STABILIZED CONSTRUCTION ENTRANCE SHALL CONFORM TO DETAIL ON THIS SHEET. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT ALL INGRESS/EGRESS POINTS TO CONSTRUCTION SITE.
4. ALL EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE SYSTEM AS REQUIRED BY THE OWNER, ENGINEER, OR CLALLAM COUNTY.
5. THE CONTRACTOR SHALL MAKE A DAILY SURVEILLANCE OF ALL EROSION CONTROL MEASURES AND MAKE ANY NECESSARY REPAIRS OR ADDITIONS TO THE EROSION CONTROL MEASURES AS REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS DETERMINED NECESSARY BY THE INSPECTOR AND/OR PROJECT ENGINEER. FAILURE TO COMPLY WITH ALL LOCAL AND STATE EROSION CONTROL REQUIREMENTS MAY RESULT IN CIVIL PENALTIES BEING LEVIED AGAINST THE CONTRACTOR.
6. PRIOR TO CLEARING AND GRADING THE CONTRACTOR SHALL PROTECT TREES TO BE SAVED WITH HIGH VISIBILITY FENCING AT THE ROOT PROTECTION DELINEATION OR OTHERWISE PROTECTED AS DIRECTED BY THE ENGINEER, CITY STAFF, OR OWNERS REPRESENTATIVE. CLEARING AND GRADING LIMITS SHALL BE STAKED IN THE FIELD PRIOR TO EXCAVATION.
7. ALL STORM DRAINAGE INLETS RECEIVING RUNOFF FROM THE PROJECT DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL BE FILTERED BEFORE ENTERING THE CONVEYANCE SYSTEM.

WET WEATHER CONSTRUCTION NOTES:

1. GROUND SURFACE SHALL BE SLOPED SO SURFACE WATER IS COLLECTED AND DIRECTED AWAY FROM THE WORK AREA TO AN APPROVED COLLECTION/DISPERSION POINT.
2. EARTHWORK ACTIVITIES SHALL NOT TAKE PLACE DURING PERIODS OF HEAVY PRECIPITATION.
3. MEASURES SHALL BE TAKEN TO PREVENT ONSITE SOIL AND SOIL STOCKPILES FROM BECOMING WET OR UNSTABLE.
4. STRUCTURAL FILL MATERIALS USED DURING PERIODS OF WET WEATHER SHALL BE COMPACTED TO THE PROJECT SPECIFICATIONS. SUITABLE STRUCTURAL FILL MATERIAL FOR WET WEATHER USE INCLUDES IMPORTED ALL-WEATHER FILL PER PROJECT'S GEOTECHNICAL ENGINEERING REPORT.
5. A SMOOTH-DRUM ROLLER SHALL BE USED TO SEAL THE GROUND SURFACE PRIOR TO PERIODS OF PRECIPITATION TO REDUCE THE EXTENT TO WHICH THE SOIL BECOMES WET OR UNSTABLE.
6. CONSTRUCTION TRAFFIC SHALL BE RESTRICTED TO SPECIFIC AREAS OF THE SITE SURFACED WITH MATERIALS NOT SUSCEPTIBLE TO WET WEATHER DISTURBANCE.
7. A MINIMUM 1 FOOT THICK LAYER OF 4-TO 6-INCH QUARRY SPALLS SHALL BE USED IN HIGH-TRAFFIC AREAS TO PROTECT THE SUBGRADE SOIL FROM DISTURBANCE.
8. DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30 INCLUSIVE), 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 AFFECTED AREA INCLUDING SOIL PILES WITH PLASTIC SHEETING, STRAW MATTING, JUTE MATTING, STRAW MULCH, OR WOOD CHIPS. SEEDING OF THE DISTURBED AREAS SHALL TAKE PLACE AS WEATHER PERMITS.

DRAFT 75% DESIGN
NOT TO BE USED FOR CONSTRUCTION

SHEET 20 OF 26

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

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	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
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DRAWN	DAP	09/13/24
CHECKED (FIELD)	XXX	XX/XX/XX
CHECKED (HQTS.)	XXX	XX/XX/XX

PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



LAKE WENATCHEE
STATE PARK

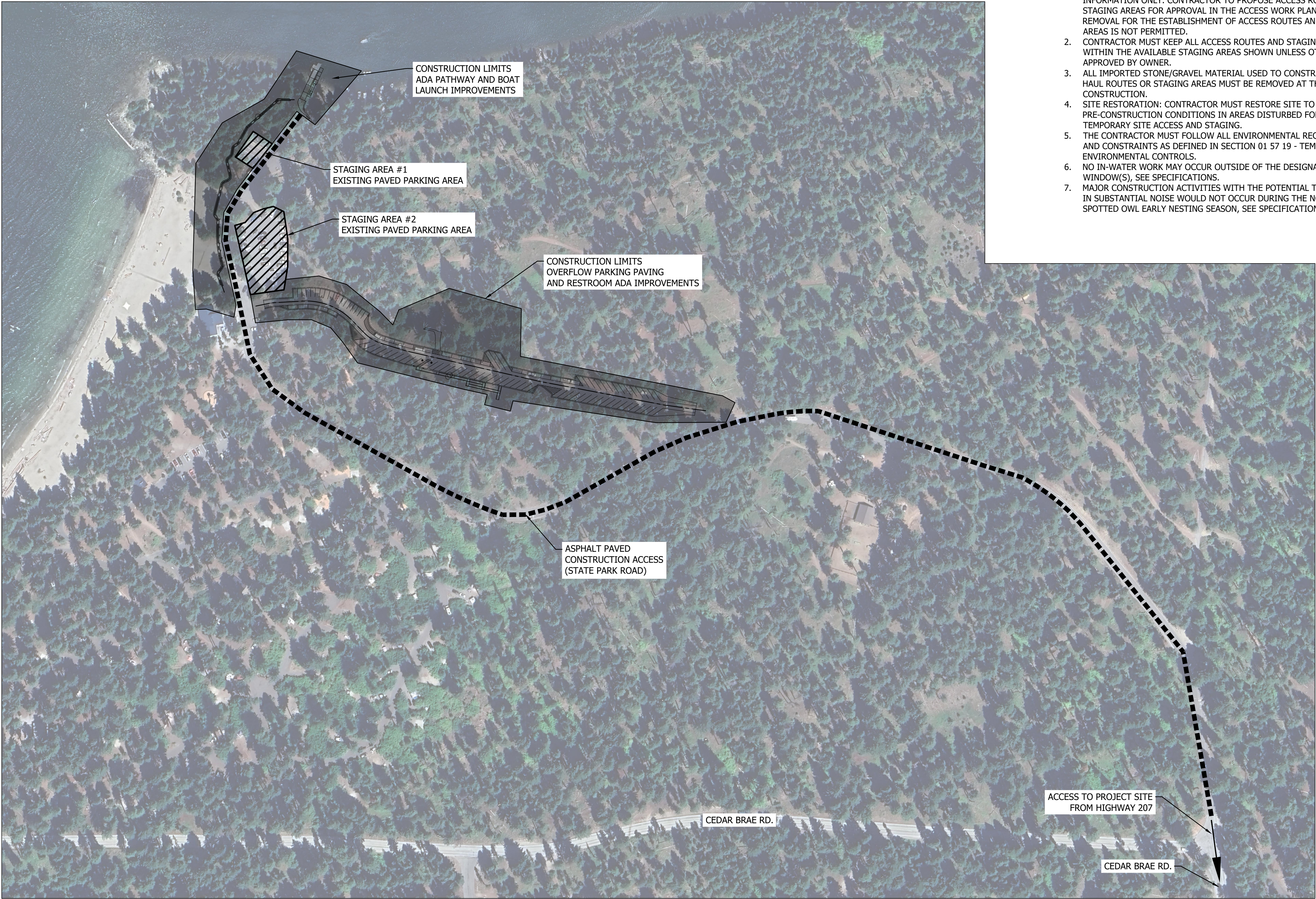
BOAT LAUNCH
IMPROVEMENTS
PROJECT

TEMPORARY EROSION
AND SEDIMENT
CONTROL PLAN
DETAILS

SCALE

NTS

PARKS FILE#



LEGEND:

- CONSTRUCTION LIMITS
- CONSTRUCTION STAGING AREA
- CONSTRUCTION ACCESS ROUTE

NOTES:

1. CONCEPTUAL ACCESS ROUTES AND STAGING AREAS SHOWN FOR INFORMATION ONLY. CONTRACTOR TO PROPOSE ACCESS ROUTES AND STAGING AREAS FOR APPROVAL IN THE ACCESS WORK PLAN. TREE REMOVAL FOR THE ESTABLISHMENT OF ACCESS ROUTES AND STAGING AREAS IS NOT PERMITTED.
2. CONTRACTOR MUST KEEP ALL ACCESS ROUTES AND STAGING AREAS WITHIN THE AVAILABLE STAGING AREAS SHOWN UNLESS OTHERWISE APPROVED BY OWNER.
3. ALL IMPORTED STONE/GRAVEL MATERIAL USED TO CONSTRUCT THE HAUL ROUTES OR STAGING AREAS MUST BE REMOVED AT THE END OF CONSTRUCTION.
4. SITE RESTORATION: CONTRACTOR MUST RESTORE SITE TO PRE-CONSTRUCTION CONDITIONS IN AREAS DISTURBED FOR TEMPORARY SITE ACCESS AND STAGING.
5. THE CONTRACTOR MUST FOLLOW ALL ENVIRONMENTAL REQUIREMENTS AND CONSTRAINTS AS DEFINED IN SECTION 01 57 19 - TEMPORARY ENVIRONMENTAL CONTROLS.
6. NO IN-WATER WORK MAY OCCUR OUTSIDE OF THE DESIGNATED WORK WINDOW(S), SEE SPECIFICATIONS.
7. MAJOR CONSTRUCTION ACTIVITIES WITH THE POTENTIAL TO RESULT IN SUBSTANTIAL NOISE WOULD NOT OCCUR DURING THE NORTHERN SPOTTED OWL EARLY NESTING SEASON, SEE SPECIFICATIONS.

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PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



LAKE WENATCHEE
STATE PARK

BOAT LAUNCH
IMPROVEMENTS
PROJECT

STAGING AREA PLAN

SCALE

1"=120'

PARKS FILE#

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NOT TO BE USED FOR CONSTRUCTION

SHEET 21 OF 26



CODES AND STANDARDS

ALL WORK SHALL CONFORM TO THE MINIMUM REQUIREMENTS FOR THE FOLLOWING CODES AND STANDARDS (PARTIAL LIST):

- INTERNATIONAL BUILDING CODE (IBC), 2021 EDITION, AS AMENDED AND ADOPTED BY THE STATE OF WASHINGTON.
- AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE), MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE/ANSI 7-16, 2010.
- AMERICAN CONCRETE INSTITUTE (ACI), BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, ACI 318-19, 2014.
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, 15TH EDITION.
- AMERICAN WELDING SOCIETY (AWS), STRUCTURAL WELDING CODE - STEEL, AWS D1.1, 2015.
- AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

LIVE LOAD DESIGN CRITERIA

- FLOATS LIVE LOAD IS 100 PSF.
- GANGWAY LIVE LOAD IS 100 PSF

DESIGN SNOW LOADS

- GROUND SNOW LOAD IS 188 PSF.

REINFORCED CONCRETE

- ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301, UON.
- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE.
- ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES: ACI 315 AND ACI SP-66.
- REINFORCING STEEL
 - ALL REINFORCING STEEL SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A615, GRADE 60.
 - LAP SPLICE ALL REINFORCING BARS AS NOTED ON THE DRAWINGS.
 - PROVIDE CORNER BARS AT ALL CORNERS. CORNER BARS SHALL MATCH THE NUMBER, SPACING, AND DIAMETER OF ALL HORIZONTAL REINFORCEMENT AT THE CORNER, UON. TERMINATED STRAIGHT BARS SHALL EXTEND FULL AVAILABLE LENGTH INTO ADJOINING MEMBERS..
 - REINFORCING SHALL BE SUPPORTED AS SPECIFIED BY THE PROJECT SPECIFICATIONS AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) MANUAL OF STANDARD PRACTICE (MSP). REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315.
 - ALL HORIZONTAL REINFORCEMENT AT DISCONTINUITIES AND CORNERS SHALL END WITH STANDARD 90 DEGREE HOOKS.
 - PROVIDE 3" CONCRETE COVER OVER REINFORCEMENT, UON.
 - WHEN SPlicing BARS OF DIFFERENT SIZES, USE SPLICE LENGTH VALUE FOR SMALLER BAR

- PRECAST CONCRETE

		MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS
a.	PRECAST PLANKS	6,000 PSI

- CAST-IN-PLACE CONCRETE

		MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS	MAX W/C
a.	CAST-IN-PLACE CONCRETE, UON	4,500 PSI	0.45

- ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4 IN.
- CONSTRUCTION JOINTS SHALL BE PROVIDED ONLY AS NOTED ON THE DRAWINGS AND AS SPECIFICALLY PERMITTED BY THE ENGINEER.
- CONCRETE MIX SHALL BE AIR ENTRAINED WITH A TARGET OF 5% +/- 1 1/2%, UON IN THE SPECIFICATIONS.
- GROUT SHALL BE NON-METALLIC AND NON-SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS, UON.
- CONCRETE ANCHORS
 - USE OF DRILLED ADHESIVE CONCRETE ANCHORS, WHERE NOT SPECIFIED IN THE DOCUMENTS, SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
 - EPOXY OR ADHESIVE-TYPE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SPECIAL INSPECTION IS REQUIRED FOR ADHESIVE ANCHORS.
 - ACCEPTABLE ADHESIVES ARE HILTI HIT RE 500 V3 SYSTEMS;OR SIMPSON EPOXY TIE (SET) SYSTEM. INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) OR INTERNATIONAL CODE COUNCIL (ICC) REPORTS SHALL BE SUBMITTED FOR ALL ADHESIVE ANCHOR PRODUCTS.
- EXPANSION ANCHORS ARE NOT ACCEPTABLE

MISCELLANEOUS STEEL

- ALL MISCELLANEOUS STEEL SHAPES AND PLATES, UON SHALL CONFORM TO ASTM A36.
- ALL HSS SECTIONS SHALL USE ASTM A500 GR C
- ALL PIPE SHALL BE ASTM A53 GR B.
- STEEL PLATE NOTED AS GRADE 50 SHALL CONFORM TO ASTM A572, GRADE GRADE 50.
- ALL WIDE FLANGE SECTIONS SHALL BE A992.
- ALL BOLTS SHALL CONFORM TO ASTM A307, UON ON THE DRAWINGS.
- ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 55 (TYPICAL), UON.
- PROVIDE BLEED HOLES IN EMBEDDED PLATES AND SHAPES AT 24-IN ON CENTER MAXIMUM.
- ALL MISCELLANEOUS PIPES AND SLEEVES, INCLUDING SLEEVES FOR BOLLARDS, SHALL CONFORM TO ASTM A53, GRADE B.
- ALL NUTS SHALL BE ASTM A563, UON.
- ALL WASHERS SHALL BE ASTM F436, UON.
- ALL STEEL ITEMS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS, UON.

WELDING

- ALL WELDING SHALL BE PERFORMED BY WELDERS QUALIFIED FOR THE WELD AND POSITION SHOWN IN ACCORDANCE WITH AWS AND HAVING CURRENT CERTIFICATION FROM WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO).
- ALL WELDS SHALL BE PERFORMED WITH THE PROCEDURES PREQUALIFIED OR QUALIFIED IN ACCORDANCE WITH AWS D1.1.
- THE WELDS SHOWN ARE FOR THE FINAL CONNECTIONS. FIELD WELD SYMBOLS ARE SHOWN WHERE FIELD WELDS ARE REQUIRED BY THE STRUCTURAL DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOP OR FIELD WELDED IN ORDER TO FACILITATE THE STRUCTURAL STEEL ERECTION.
- WELDING ELECTRODES SHALL BE 70 KSI STRENGTH AND SHALL BE LOW HYDROGEN MATERIAL.
- ALL FAYING SURFACES OF FABRICATED METAL COMPONENTS EXPOSED TO WEATHER SHALL BE SEAL WELDED.
- MINIMUM WELD SIZE 3/16", UON.

GEOTECHNICAL

- IF UNSUITABLE SUBGRADE IS FOUND DURING EXCAVATION, THE UNSUITABLE MATERIAL SHALL BE OVER EXCAVATED PER DIRECTION OF THE GEOTECHNICAL ENGINEER AND REPLACED WITH GRAVEL BACKFILL COMPACTED TO 95 PERCENT.
- GROUNDWATER IS ASSUMED TO BE 6-11 FEET BELOW EXISTING GROUND SURFACE. PROVIDE DEWATERING PER SPECIFICATION IF REQUIRED.
- REFER PANGEO REPORT NO. 04-076 DATED JAN. 15, 2020 FOR ALL GEOTECHNICAL INFORMATION.
4. ALLOWABLE BEARING 1,500 PSF WITH ONE THIRD INCREASE FOR WIND OR SEISMIC.

STAINLESS STEEL

- ALL STAINLESS STEEL SHALL BE ALLOY TYPE 316
- PLATES - ASTM A240 TYPE 316
- BARS AND SHAPES - ASTM A276
- BOLTS AND SCREWS - ASTM F593 CONDITION CW
- NUTS - ASTM F594
- WASHERS - MADE OF TYPE 316 STAINLESS STEEL TO DIMENSIONAL TOLERANCE OF ASME B18.21.1
- USE ANTI-SEIZE COMPOUND FOR ALL THREADED CONNECTIONS.

STEEL PILES

- MATERIAL FOR STEEL PILES SHALL BE ONE OF THE FOLLOWING
 - ASTM A53 GR B
 - ASTM A252 GR 2
- STEEL PILES SHALL BE GALVANIZED TO THE EXTENT SHOWN ON THE DRAWINGS

DRAFT 75% DESIGN
NOT TO BE USED FOR CONSTRUCTION

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CHECKED (FIELD)	XXX	XX/XX/XX
CHECKED (HDQTS.)	XXX	XX/XX/XX

PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



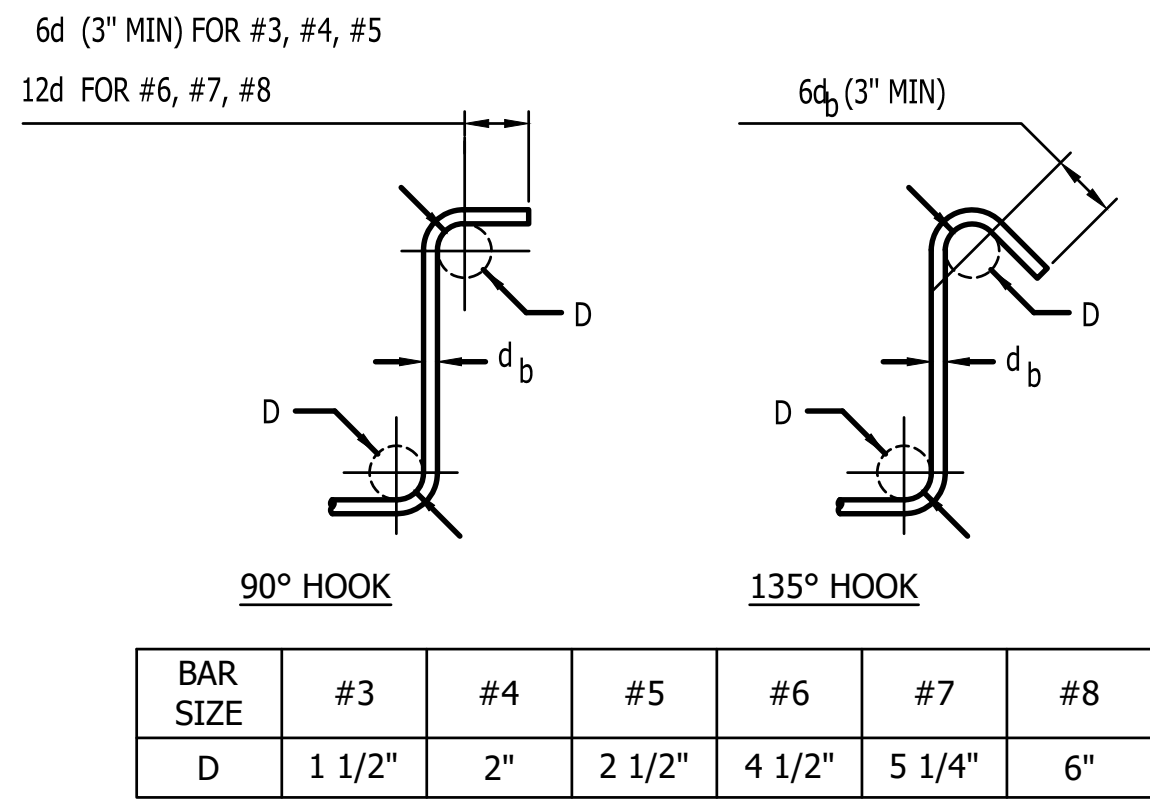
LAKE WENATCHEE
STATE PARK

BOAT LAUNCH
IMPROVEMENTS
PROJECT

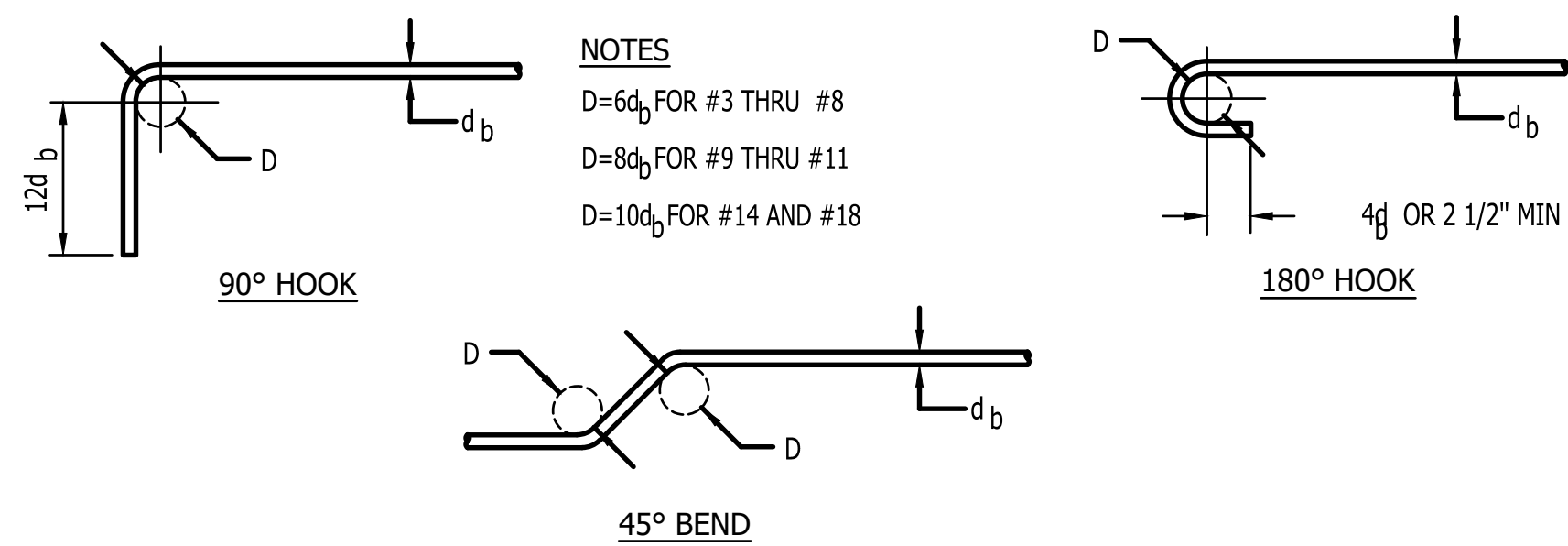
STRUCTURAL NOTES

SCALE

PARKS FILE#



1
-
TYPICAL STIRRUP & TIE HOOKS



2
-
TYPICAL REINFORCING HOOKS

BAR SIZE	LAP SPLICE LENGTH IN INCHES	
	OTHER BARS	TOP BARS
#3	19	24
#4	25	32
#5	31	40
#6	37	48
#7	54	70
#8	62	80
#9	70	91
#10	79	102
#11	87	113

NOTES

- THE ABOVE SPLICE LENGTHS APPLY TO BARS WITH A MINIMUM SPACING OF 3db INCHES ON CENTER.

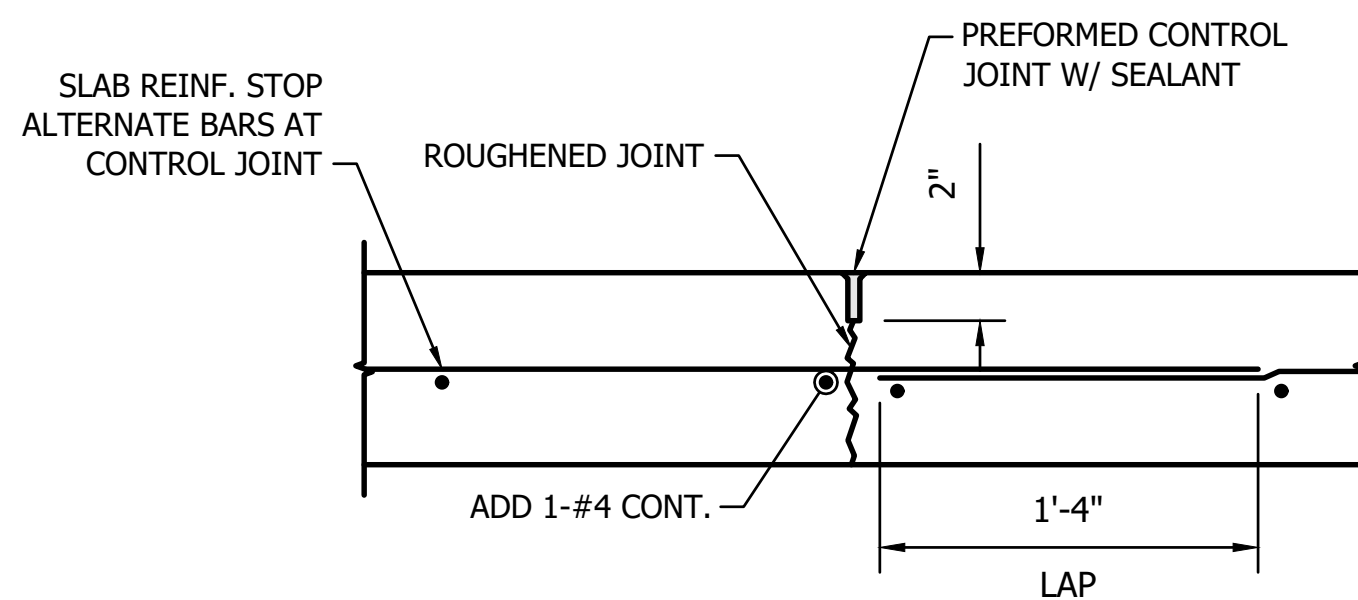
db = BAR NOMINAL DIAMETER
- DEVELOPMENT LENGTH OF BARS TO BE 77% OF LAP SPLICE LENGTH.
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
- VALUES ARE BASED ON CLASS "B" SPLICES (MAX 50% OF BARS SPLICED AT ONE LOCATION).

3
-
TYPICAL REINFORCING BAR LAP SPLICE LENGTH

SPECIAL INSPECTIONS

SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH IBC 2021, CHAPTER 17 WITH STATE OF WASHINGTON AMENDMENTS. SEE BELOW FOR INSPECTION SCHEDULE:

MATERIAL	INSPECTION ITEM	REFERENCE STANDARD	CONTINUOUS	PERIODIC
CONCRETE	REINFORCING	ACI 318		X
	EMBEDDED BOLTS			
	VERIFY DESIGN MIX STRENGTH, SLUMP, AIR, TEMPERATURE OF FRESH CONCRETE			
STEEL	MATERIAL VERIFICATION OF BOLTS	AISC 360, SEC A3.3		X
	BOLT INSTALLATION	AISC 360, SEC M2.5		X
	MATERIAL VERIFICATION OF WELD MATERIAL	AISC 360, SEC A3.5 AND APPLICABLE AWS A5 DOCUMENTS		X
	CJP AND PJP GROOVE WELDS	AWS D1.1	X	
	MULTI PASS FILLET WELDS, SINGLE PASS FILLET WELDS >5/16 PLUG AND SLOT WELDS	AWS D1.1	X	
	FILLET WELDS ≤ 5/16			X
POST-INSTALLED ANCHORS	ADHESIVE ANCHORS	PER MANUFACTURER'S REQUIREMENTS		
PILES	VERIFY MATERIALS, SIZES, LENGTHS		X	
	VERIFY PLACEMENT, PLUMBNESS		X	
	CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, OR TIME PER FOOT FOR VIBRATORY HAMMER. RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY PILE DAMAGE.		X	
	CONFIRM INSTALLATION EQUIPMENT AND METHOD		X	



A
-
SLAB CONTROL JOINT

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SHEET 23 OF 26

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PROJECT ENGINEER

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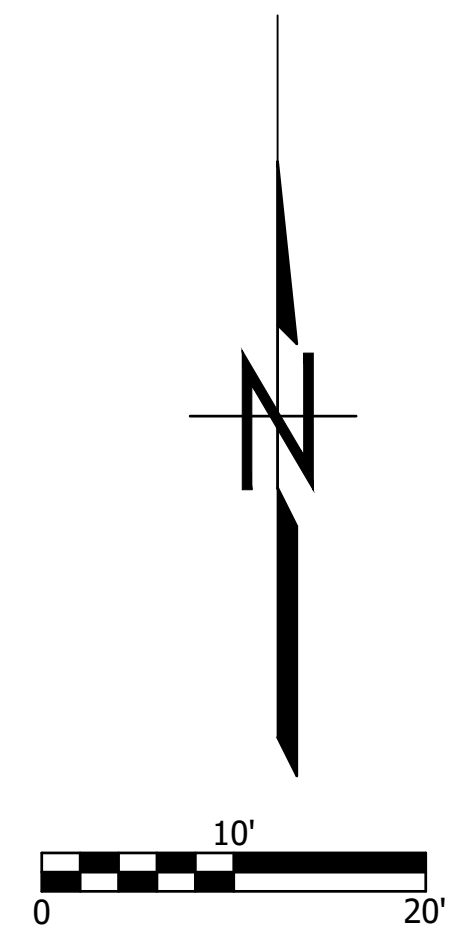
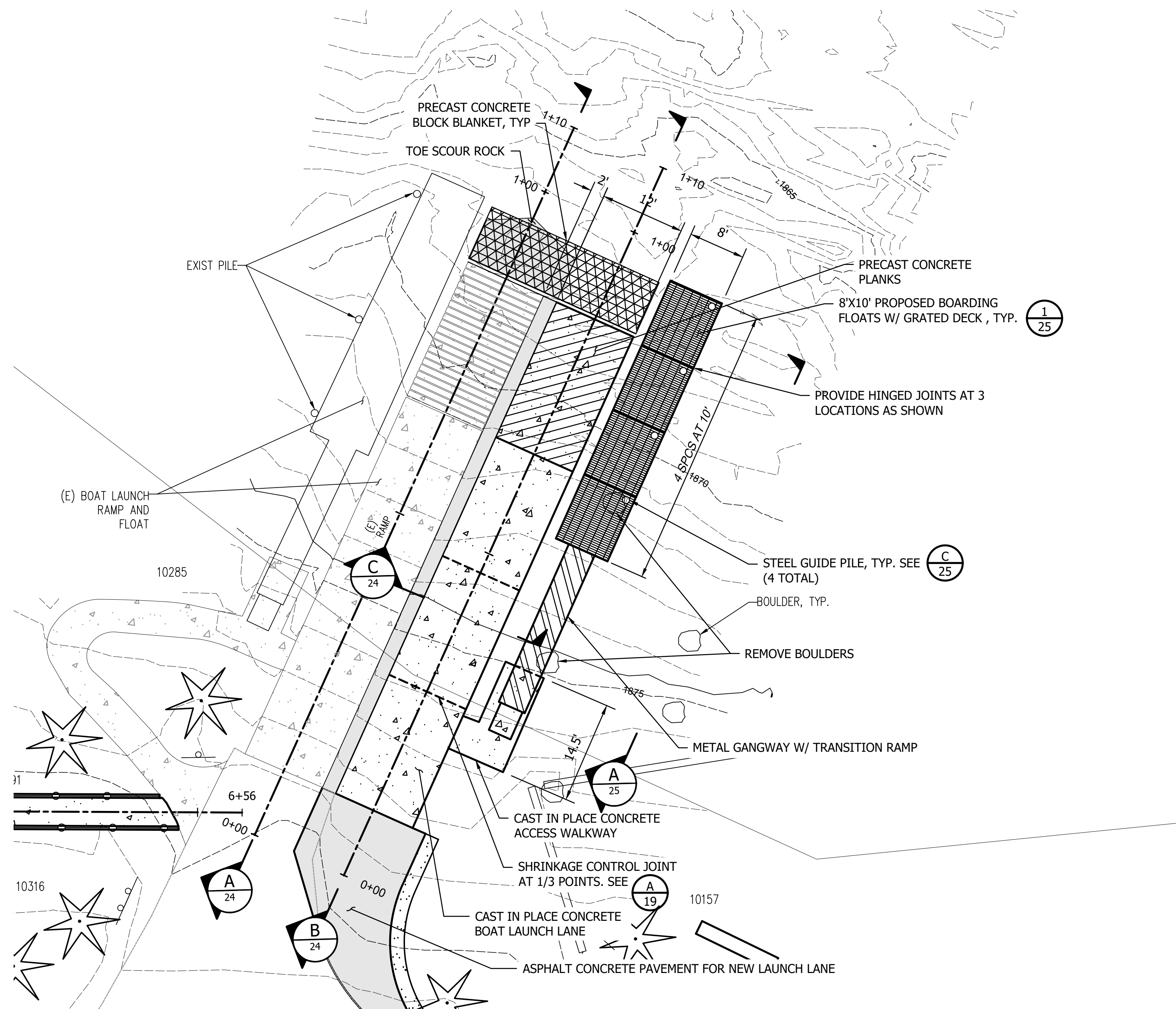
LAKE WENATCHEE
STATE PARK

BOAT LAUNCH
IMPROVEMENTS
PROJECT

INSPECTION
SCHEDULE AND
TYPICAL CONCRETE
DETAILS

SCALE

PARKS FILE#



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SHEET 24 OF 26

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PROJECT ENGINEER

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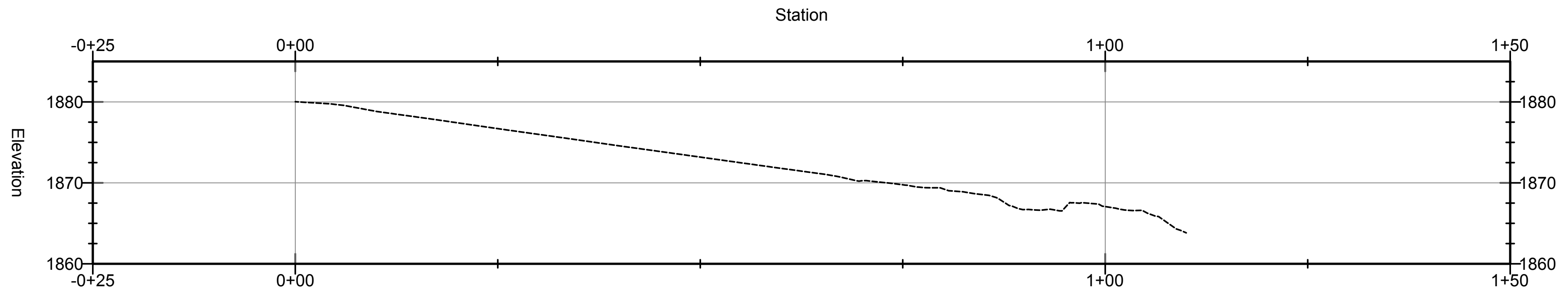
LAKE WENATCHEE
STATE PARK

BOAT LAUNCH
IMPROVEMENTS
PROJECT

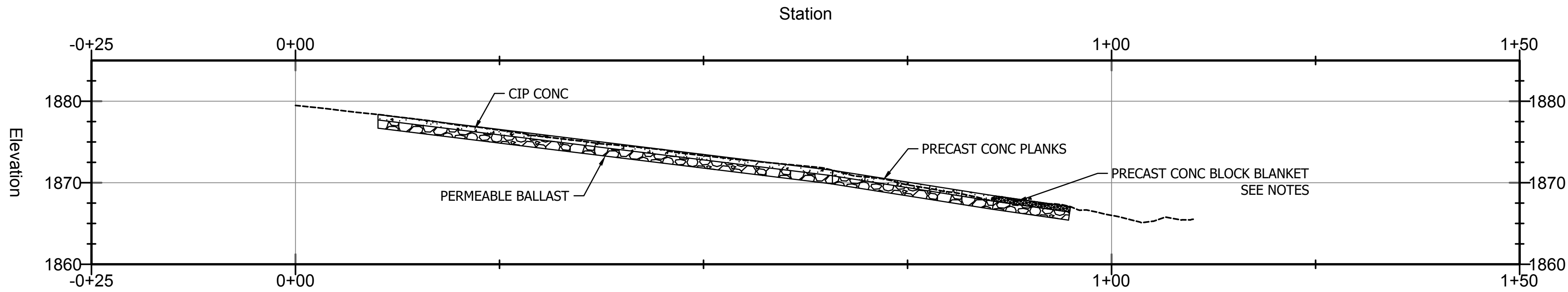
BOAT LAUNCH AREA -
PART PLAN, TYPICAL
SECTIONS, & DETAILS

SCALE
1"=10'

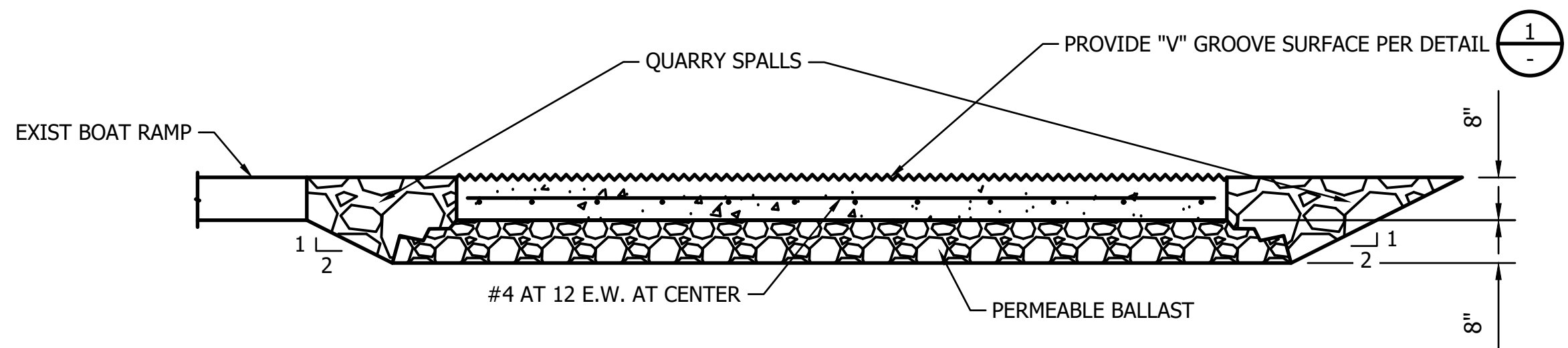
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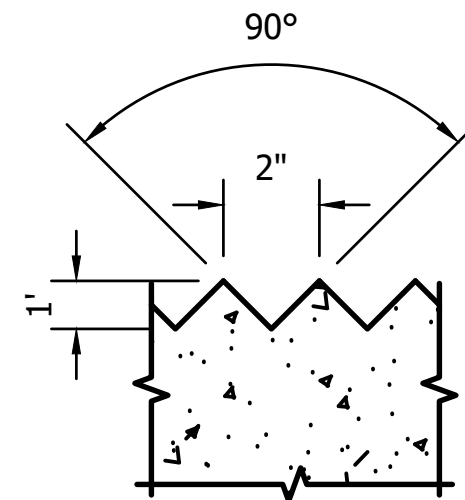
A
24
PROFILE - EXISTING BOAT RAMP
SCALE 1"=20'



B
23
PROFILE - PROPOSED BOAT RAMP
SCALE 1"=20'



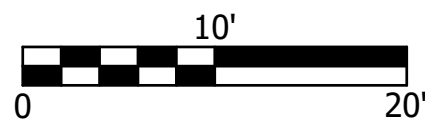
C
23
SECTION AT BOAT RAMP CIP SLAB
SCALE 6"=1'-0"



NOTE

1. V-GROOVE FINISH FOR CAST IN PLACE SLAB SHALL BE ANGLED AT 30° FROM THE PERPENDICULAR TO THE LAUNCH RAMP.

1
DETAIL - V-GROOVE FINISH
SCALE 3"=1'-0"



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NOT TO BE USED FOR CONSTRUCTION

SHEET 25 OF 26

NOTES

1. PRECAST CONCRETE BLANKET (PCB) SHALL BE FLEXAMAT 10NW, SHOREFLEX, OR EQUIVALENT APPROVED BY OWNER.
2. SECURE PRECAST CONCRETE BLANKET IN PLACE WITH #4 REBAR HAIRPINS INSERTED 18" INTO SUBGRADE SPACED APPROXIMATELY 2' ON CENTER AT TOP AND BOTTOM OF BLANKET.
3. PROVIDE NON-WOVEN GEOTEXTILE UNDER PCB. GEOTEXTILE SHALL MEET REQUIREMENTS OF WSDOT STANDARD SPECIFICATION 9-33.2 TABLES 4 AND 5, HIGH SURVIVABILITY CLASS A.
4. PRECAST CONCRETE PLANKS SHALL BE MANUFACTURER DESIGNED CONCRETE WITH MINIMUM STRENGTH OF 5,000 PSI, 8 INCH THICKNESS, GROOVED SURFACE SIMILAR TO DETAIL 1 THIS SHEET, AND TONGUE AND GROOVE JOINTS BETWEEN PANELS. OLDCASTLE, NORTHWEST PRECAST, OR APPROVED EQUIVALENT.

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CHECKED (HDQTS.)	XXX	XX/XX/XX

PROJECT ENGINEER

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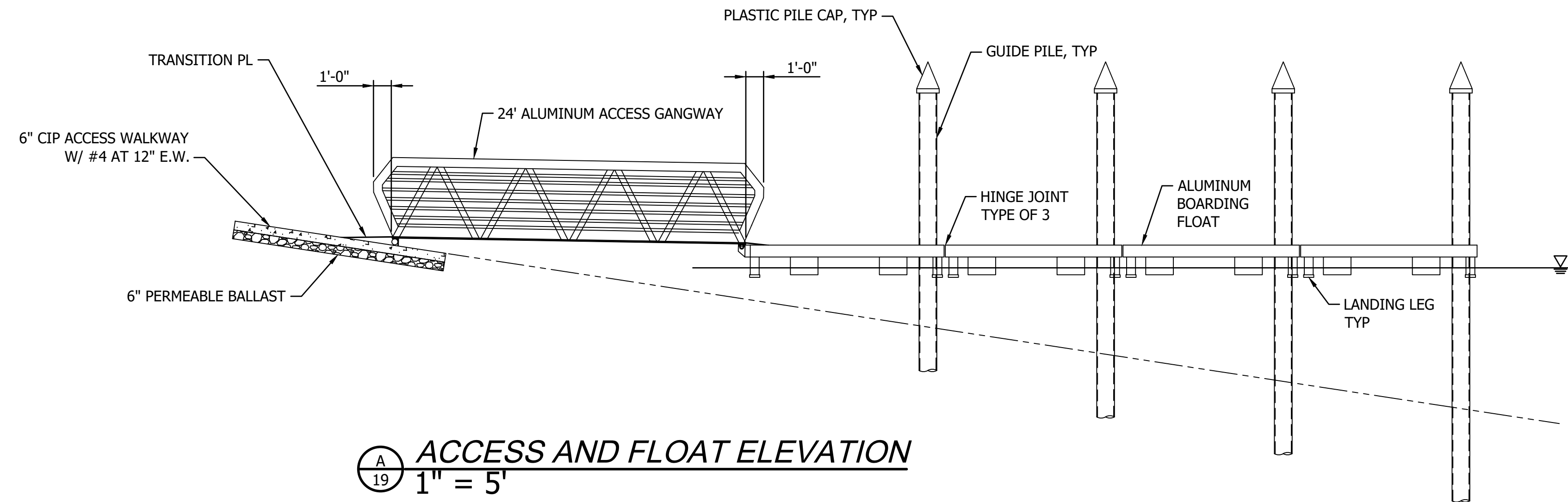
LAKE WENATCHEE
STATE PARK

BOAT LAUNCH
IMPROVEMENTS
PROJECT

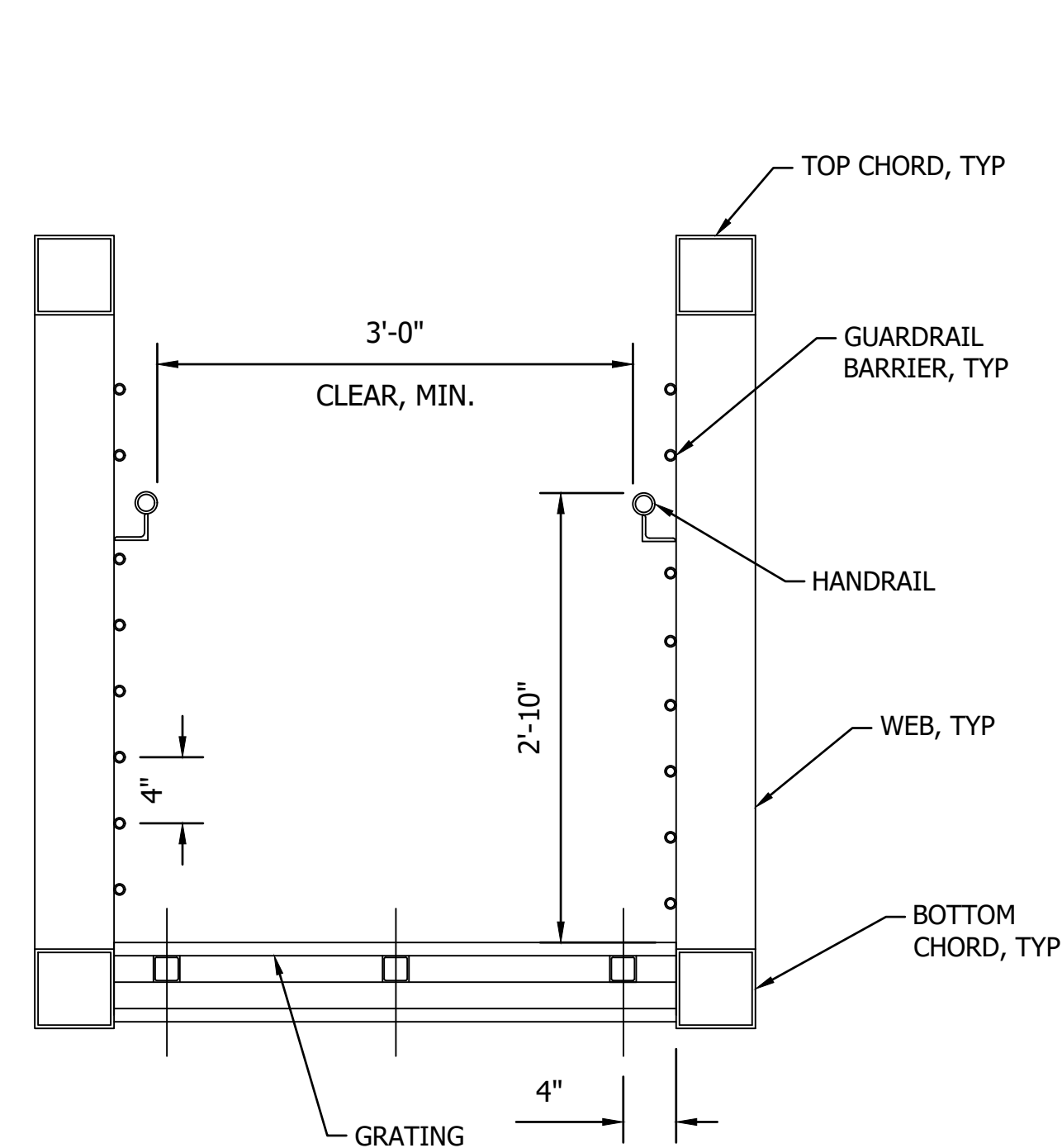
BOAT RAMP
PROFILES

SCALE
AS NOTED

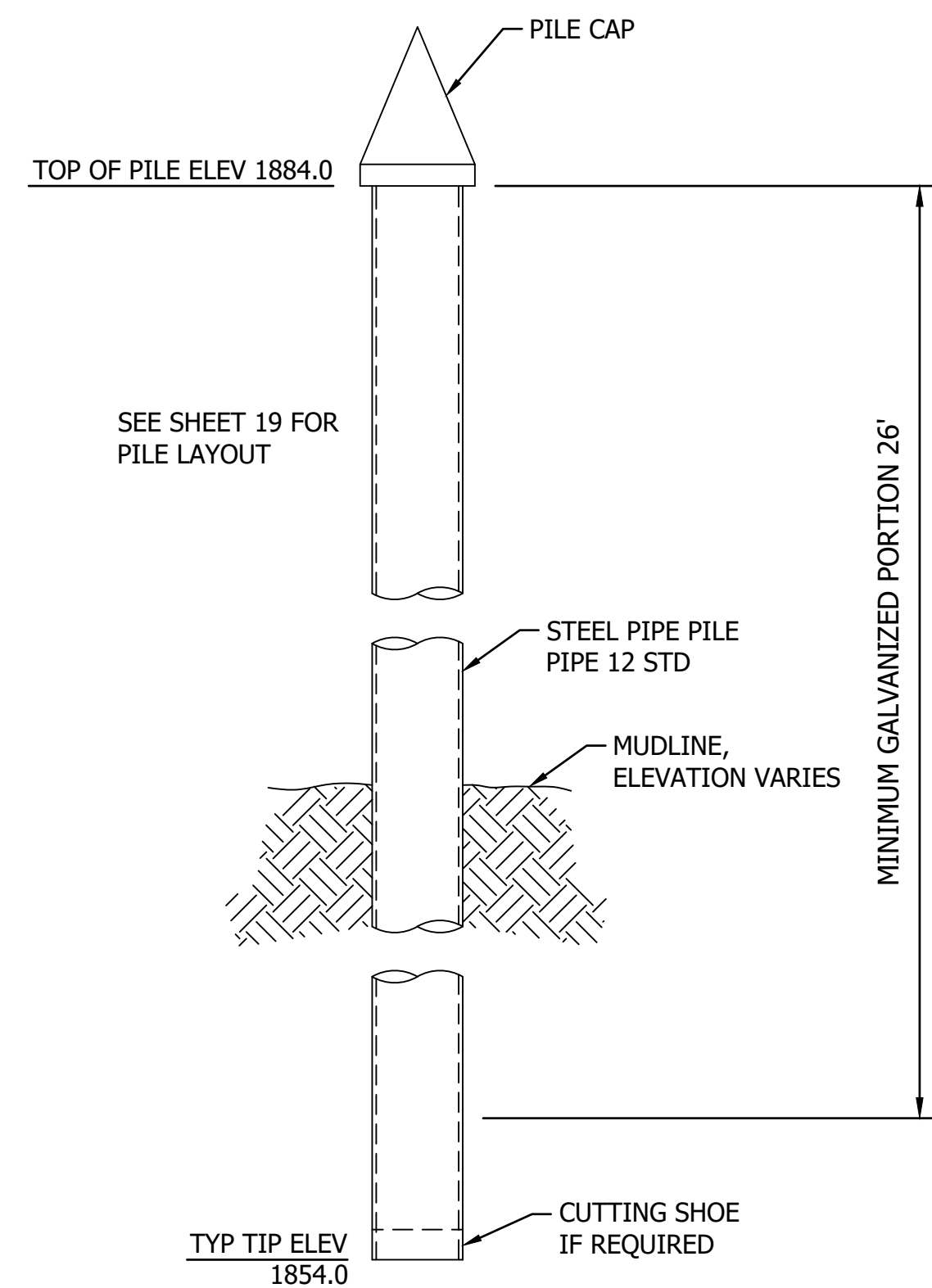
PARKS FILE#



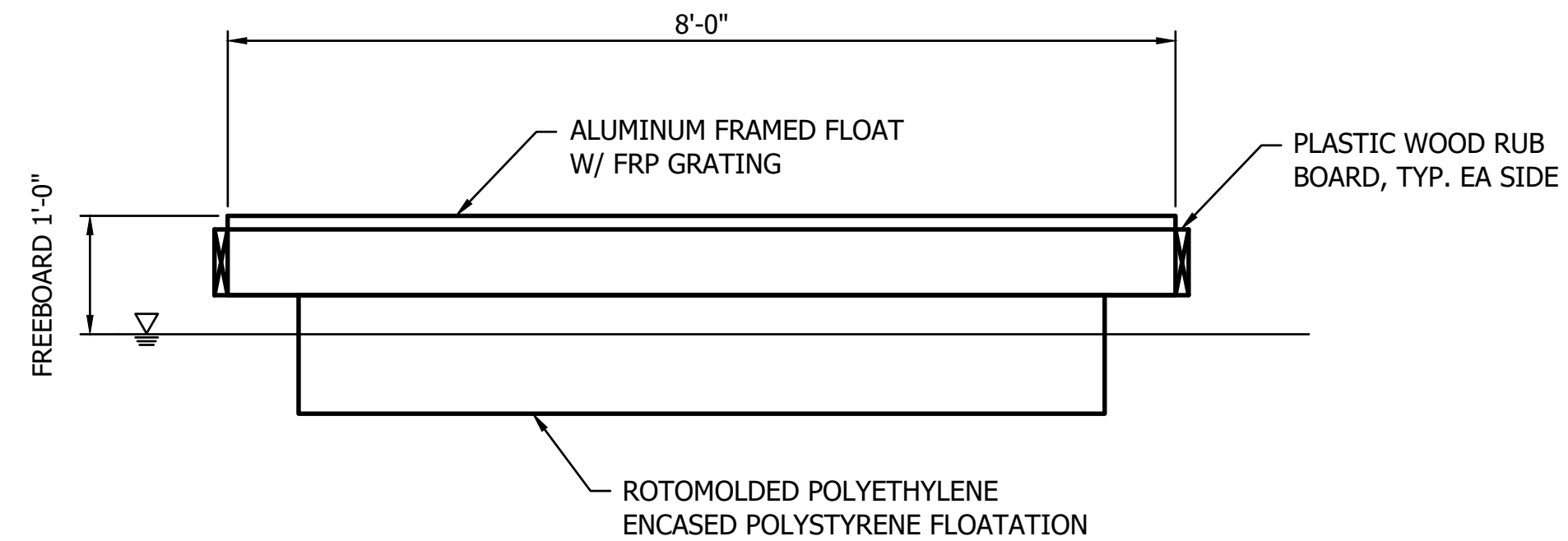
ACCESS AND FLOAT ELEVATION
1" = 5'



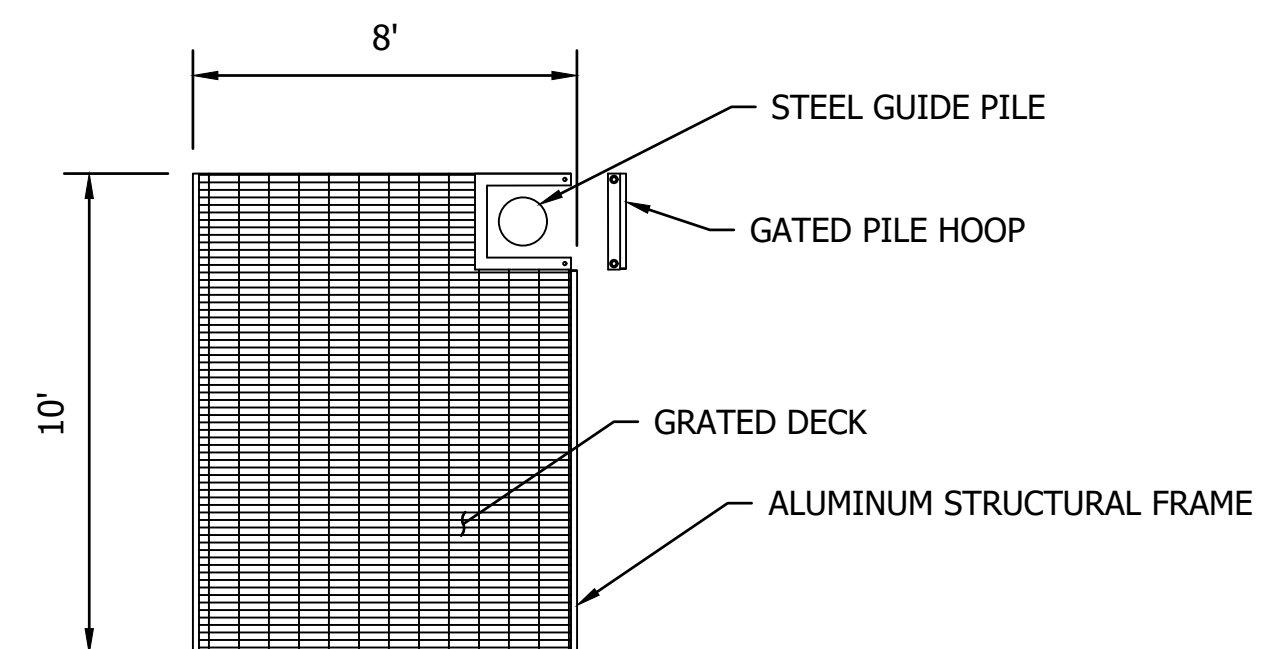
ACCESS GANGWAY SECTION
1" = 1'-0"



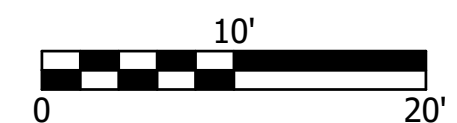
ELEVATION - BOARDING FLOAT GUIDE PILE
NOT TO SCALE



BOARDING FLOAT SECTION
3/4" = 1'-0"



DETAIL - 8'x10' FLOAT UNIT
3" = 1'-0"



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SHEET 26 OF 26

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PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
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COMMISSION



LAKE WENATCHEE
STATE PARK

BOAT LAUNCH
IMPROVEMENTS
PROJECT

GANGWAY AND
BOARDING FLOAT -
MISC

SCALE

AS NOTED

PARKS FILE#