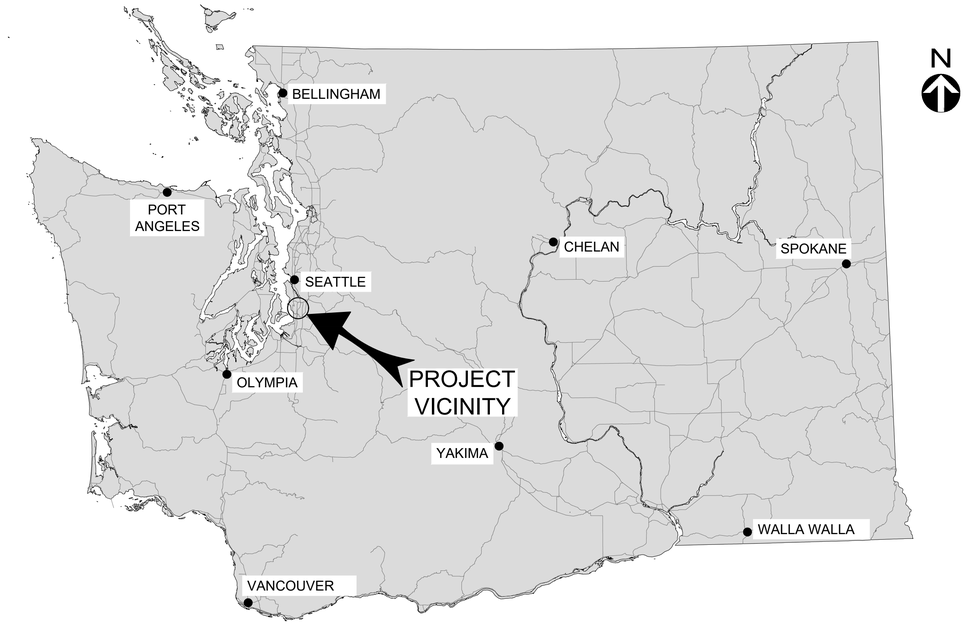
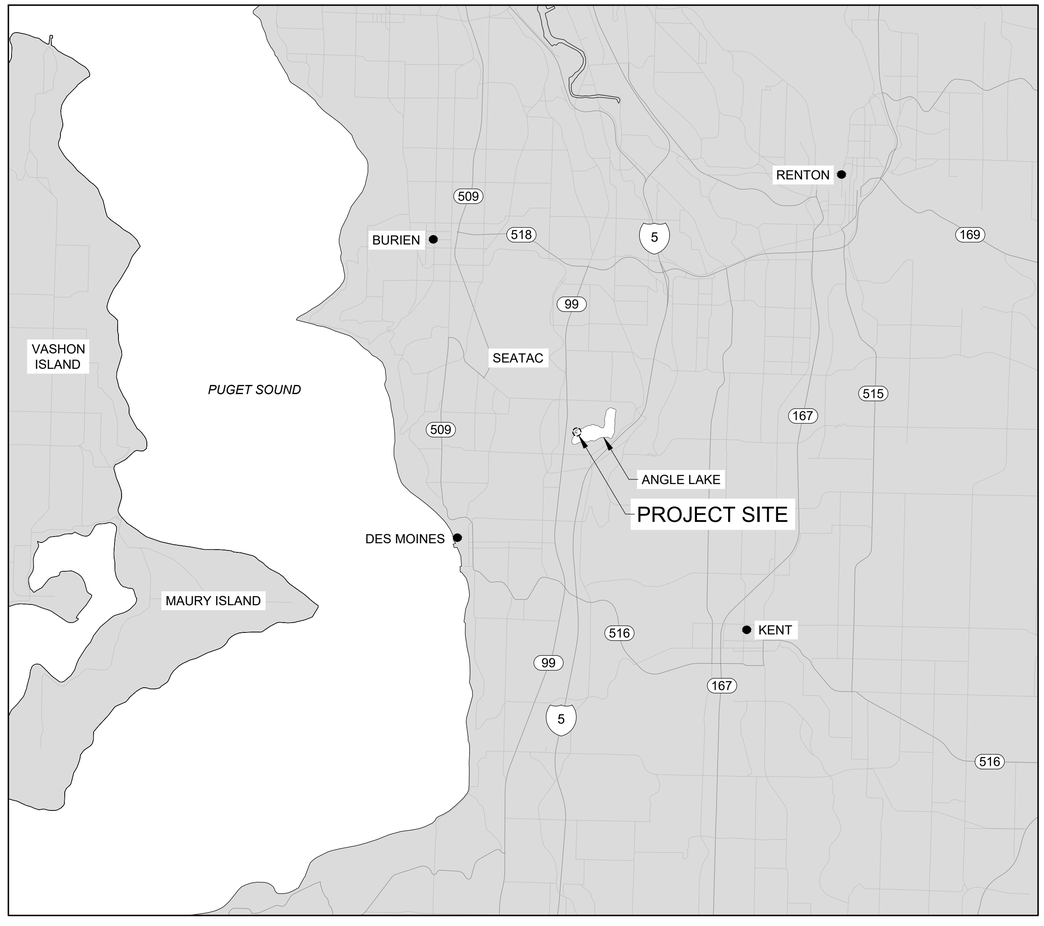
ANGLE LAKE PARK
WATERFRONT IMPROVEMENTS

CITY OF SEATAC



WASHINGTON KEY MAP



PROJECT SITE LOCATION

0 6000 12,000

SCALE IN FEET

SHEET INDEX

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2	G0.01	GENERAL NOTES 1	19	SW4.02	BOAT LAUNCH SECTIONS
3	G0.02	GENERAL NOTES 2	20	SW4.03	FISHING AREA PLAN AND SECTIONS
4	G1.01	EXISTING SITE PLAN	21	SW4.04	SWIM ACCESS PLANS AND SECTIONS 1
5	G9.01	EXISTING SITE PHOTOS 1	22	SW4.05	SWIM ACCESS PLANS AND SECTIONS 2
6	G9.02	EXISTING SITE PHOTOS 2	23	SW5.01	BOAT RAMP DETAILS
7	D1.01	OVERALL DEMOLITION PLAN	24	SW5.02	BOAT RAMP AND ADA RAMP FRAME DETAILS
8	D2.01	DEMOLITON ELEVATIONS	25	SW5.03	BOAT RAMP PRECAST PANEL DETAILS
9	D4.01	DEMOLITION DETAILS	26	SW5.04	ABUTMENT DETAILS
10	SW1.01	PROPOSED SITE PLAN	27	SW5.05	FLOAT DETAILS
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16	SW2.03	SWIM ACCESS ELEVATIONS 1	33	SW5.11	FISHING PIER DETAILS
17	SW2.04	SWIM ACCESS ELEVATIONS 2			

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CITY OF SEATAC EST. 1990

Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS E. DIX STATE OF WASHINGTON 48511 REGISTERED PROFESSIONAL ENGINEER
9/4/26

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

Scale at ANSI D: As Shown | Status | Rev | Security

Project Number	B/O	Total
507106437	1	33

Drawing Number: G0.00

Title: Angle Lake Park Waterfront Improvements

COVER SHEET

GENERAL

1. THESE NOTES CONTAIN INFORMATION AND ARE NOT COMPLETE FOR CONSTRUCTION PURPOSES. CONTRACTOR SHALL VERIFY INFORMATION GIVEN HERE WITH SPECIFICATIONS AND OTHER DOCUMENTS AND BRING ANY CONFLICTS TO THE ATTENTION OF THE OWNER BEFORE WORK IS INITIATED. THE OWNER WILL RESOLVE ANY SUCH CONFLICT IN WRITING.

2. THE CONTRACTOR SHALL SEQUENCE THE WORK TO MINIMIZE ON-SITE CONSTRUCTION TIME AND REDUCE THE TIME THE PARK IS CLOSED TO THE PUBLIC.

3. ALL DIMENSIONS AND DETAILS SHALL BE VERIFIED BY FIELD MEASUREMENT BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION.

4. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DRAWINGS, GENERAL NOTES, AND SPECIAL PROVISIONS, AT THE DISCRETION OF THE OWNER, THE MORE STRINGENT PROVISION SHALL GOVERN.

5. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE LOCAL ENVIRONMENTAL PROTECTION STANDARDS, PERMITTING LAWS, AND REGULATIONS.

6. ALL APPLICABLE SAFETY REGULATIONS SHALL BE STRICTLY FOLLOWED. METHODS OF DEMOLITION, CONSTRUCTION, AND ERECTION OF STRUCTURAL MATERIAL IS THE CONTRACTOR'S RESPONSIBILITY.

7. ALL CONSTRUCTION, EXCEPT THAT WHICH SHALL BE PERFORMED ON SHORE, SHALL BE CONDUCTED FROM BARGES, WORK BOATS, OR OTHER TEMPORARY PLATFORMS PROVIDED BY THE CONTRACTOR, AS APPLICABLE.

8. LIMITED STAGING AREA WILL BE PROVIDED ON-SITE FOR CONTRACTOR'S USE. CONTRACTOR SHALL CONFIRM EXTENT AND LOCATION OF STAGING AREAS WITH THE OWNER. CONTRACTOR SHALL PROVIDE FENCING AROUND ALL LANDSLIDE WORK AREAS AND LAYDOWN AREAS.

9. ALL LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND HAVE BEEN ESTABLISHED FROM AVAILABLE RECORDS AND LIMITED FIELD INVESTIGATIONS. UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE DIGGING AND DEMOLITION.

10. ANY ELECTRICAL, DOMESTIC WATER, STORM SEWER, AND SANITARY SEWER UNDERGROUND UTILITY LINES LOCATED IN THE PROJECT AREA SHALL BE PROTECTED UNLESS SPECIFICALLY CALLED OUT TO BE DEMOLISHED.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF UTILITY LOCATIONS AND TO AVOID DAMAGE TO ANY EXISTING UTILITIES.

12. PRIOR TO ANY DEMOLITION AND EARTHWORK ACTIVITIES, THE CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY EROSION AND SEDIMENTATION AND STORMWATER POLLUTION MEASURES IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, AND PERMIT REQUIREMENTS.

13. CONTRACTOR RESPONSIBLE FOR REMOVAL OF ALL DEMOLISHED MATERIALS/COMPONENTS FROM SITE. TIMBER PILES (ASSUME CREOSOTE TREATED) - REMOVAL VIA VIBRATORY EXTRACTION, ELSE CUT OFF 2' BELOW MUDLINE - REFER SPECS.

CODES AND STANDARDS

1. ALL METHODS AND MATERIALS SHALL CONFORM TO IBC 2021, AS AMENDED AND ADOPTED BY THE CITY.

2. REINFORCED CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318), LATEST EDITION.

3. ALL STRUCTURAL STEEL DESIGN AND CONSTRUCTION SHALL COMPLY WITH ANSI/AISC 360 AND 305 LATEST EDITION REQUIREMENTS.

4. REFERENCE TO ASTM AND OTHER STANDARDS SHALL MEAN THE LATEST EDITION IN EFFECT ON THE BID DATE, UNLESS NOTED OTHERWISE IN THESE DOCUMENTS OR DESIGNATED BY THE GOVERNING CODE.

WATER LEVELS

1. REFER TO SPECIFIC REQUIREMENTS. WATER LEVELS SHOWN ARE FOR REFERENCE ONLY AND DO NOT INDICATE CONDITIONS DURING CONSTRUCTION.

WATER LEVELS, FT (NAVD88)	
	ELEVATION
ORDINARY HIGH WATER (OHW)	350.53
HIGHEST OBSERVED WATER LEVEL (MAR 9, 2016)	352.51
LOWEST OBSERVED WATER LEVEL (OCT 25, 2005)	346.62

MATERIALS AND CONSTRUCTION

1. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE SHORING, BRACING, AND CUTTING OF ALL COMPONENTS AS REQUIRED FOR SAFETY AND STRUCTURAL INTEGRITY THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH SOUND PRACTICE AND SPECIFICATIONS.

2. ALL SHOP DRAWINGS FOR ALUMINUM PIER AND WALKWAYS, RAMPS, STAIRS, CAST-IN-PLACE CONCRETE, PRECAST CONCRETE ELEMENTS, REINFORCING STEEL, STEEL PILES, STEEL FRAMES, FLOATING DOCKS, KAYAK ACCESS FLOAT, AND MISCELLANEOUS METALS SHALL BE SUBMITTED TO AND REVIEWED BY THE OWNER PRIOR TO FABRICATION.

MATERIALS AND CONSTRUCTION (CONTINUED)

STEEL PILES

1. CONTRACTOR SHALL BE FAMILIAR WITH PROJECT SITE SUBSURFACE AND PILE DRIVING CONDITIONS, SEE PROJECT GEOTECHNICAL BORINGS PROVIDED IN THE GEOTECHNICAL REPORT.

2. PILES SHALL BE DRIVEN TO ACHIEVE THE SPECIFIED PILE TIP ELEVATIONS. CONTRACTOR IS RESPONSIBLE FOR SELECTION OF APPROPRIATE PILE HAMMER TYPE (IMPACT, VIBRATORY, OR OTHER) REQUIRED TO ACHIEVE THE PILE TIP DEPTHS FOR THE PROJECT SITE DRIVING CONDITIONS. ALL PILES SHALL BE INITIALLY DRIVEN WITH A VIBRATORY HAMMER AND THEN, IF NOT TO GRADE, USING AN IMPACT HAMMER TO REACH THE DESIGN PILE TIP ELEVATIONS/PENETRATIONS. SOUND ATTENUATION SYSTEMS ARE REQUIRED DURING USE OF IMPACT HAMMERS, SEE PERMITS AND SPECIFICATIONS.

3. THE CONTRACTOR SHALL COORDINATE AND VERIFY THE FABRICATION / MANUFACTURE WORK PERFORMED FOR THE FISHING PIER, ADA RAMP, FLOATS, BOAT RAMP, AND PILE INSTALLATION WORK TO ENSURE THAT ADEQUATE PILE AND PILE FRAME SYSTEM CAN BE PROPERLY CARRIED OUT AND THAT EACH INDIVIDUAL ITEM CAN OPERATE IN ACCORDANCE WITH THE INTENT SHOWN IN THE CONSTRUCTION DRAWINGS. FAILURE TO COORDINATE WORK BETWEEN FABRICATORS AND FIELD CONDITIONS THAT MAY AFFECT THE DESIGN AND FABRICATION SHALL NOT CONSTITUTE GROUNDS FOR ADDITIONAL COMPENSATION.

4. SCHEDULING OF PILE INSTALLATION, PIER AND WALKWAY FABRICATION, FLOAT FABRICATION, AND FLOAT INSTALLATION SHALL BE CONDUCTED WITH CONSIDERATION FOR HARD DRIVING CONDITIONS. ALL PILES SHALL HAVE A DRIVING SHOE DESIGNED FOR HARD DRIVING. THE CONTRACTOR IS TO SEQUENCE THE WORK SUCH THAT THE AS-BUILT LOCATIONS OF THE DRIVEN PILING CAN BE USED TO LOCATED PILE HOOPS ON THE FLOAT.

5. STEEL PILING SHALL CONFORM TO ASTM A252, GRADE 3 WITH A MINIMUM YIELD STRENGTH OF 50 KSI.

6. ALL PILES SHALL BE HOT-DIP GALVANIZED PER SPECIFICATIONS.

7. SUPPLIED PILE CUTOFF TO BE DETERMINED BY THE CONTRACTOR (MIN. 5 FT).

CONCRETE

1. REINFORCING STEEL
   A. ALL REINFORCING STEEL, EXCEPT AS NOTED OTHERWISE, SHALL BE UNCOATED DEFORMED STEEL BARS CONFORMING TO ASTM A 615, GRADE 60.
   B. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

USE	COVER
CAST IN PLACE CONCRETE	3"
PRECAST CONCRETE	1 1/4"

   C. LAP REINFORCING BARS PER ACI 318.
   D. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315.
   E. SHOP DRAWINGS FOR ALL REINFORCED CONCRETE SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER FOR REVIEW PRIOR TO START OF CONSTRUCTION.
2. MINIMUM MIX DESIGN COMPRESSIVE STRENGTH AT 28 DAYS
   A. CAST IN PLACE CONCRETE 4,000 PSI
   B. PRECAST CONCRETE 5,000 PSI
3. ALL EXPOSED CORNERS OF BROOM-FINISHED CAST IN PLACE CONCRETE SHALL HAVE A 1" CHAMFER UNLESS OTHERWISE NOTED.
4. CONCRETE MIX SHALL HAVE A MAXIMUM WATER CEMENT RATIO OF 0.40 (0.35 FOR PRECAST PANELS) UNLESS NOTED OTHERWISE.
5. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C 260. AIR ENTRAINMENT IN CONCRETE SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

MAXIMUM AGGREGATE SIZE (IN)	3/8	1/2	3/4	1	1 1/2
CORRESPONDING AIR ENTRAINMENT (%)	7.5	7	6	6	5.5

6. ALL CAST IN PLACE AND PRECAST CONCRETE TOP SURFACES SHALL BE BROOM FINISHED FOR SLIP RESISTANCE.
7. WHERE NECESSARY, CONTRACTOR SHALL DESIGN, CERTIFY, PROVIDE AND INSTALL ADDITIONAL REINFORCING (STEEL STIFFENERS, BRACING, LIFTING INSERTS, ETC.) TO RESIST ERECTION AND TRANSPORTATION STRESSES. LIFTING INSERTS SHALL BE INSTALLED AT LOCATIONS WHERE THEY WILL BE HIDDEN BY CONSTRUCTION OR OTHERWISE COVERED TO THE SATISFACTION OF THE OWNER.
8. LIFTING HOOKS OR INSERTS IN PRECAST SHALL BE STAINLESS STEEL.

UHMW

1. UHMW SHALL BE BLACK IN COLOR, FULLY CROSS LINKED, AND UV RESISTANT AS MANUFACTURED BY TIVAR® OR APPROVED EQUAL. UHMW SHALL BE SUITABLE FOR MARINE ENVIRONMENTS.

MISCELLANEOUS METALS

1. PROVIDE ADEQUATE SHORING, BRACING, AND CUTTING OF ALL COMPONENTS AS REQUIRED FOR SAFETY AND STRUCTURAL INTEGRITY THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.

MATERIALS AND CONSTRUCTION (CONTINUED)

MISCELLANEOUS METALS (CONTINUED)

2. ALL REQUIRED SHOP DRAWINGS PER THE SPECIFICATIONS MUST BE SUBMITTED AND REVIEWED PRIOR TO FABRICATION.
3. ALL STEEL SHALL BE HOT-DIPPED GALVANIZED. ALL STAINLESS STEEL SHALL BE TYPE 316.

STEEL

1. MATERIAL SPECIFICATION	MIN STRENGTH (Fy/Fu, KSI)	APPLICABILITY
A. ASTM A36:	36/58	C-, L-SHAPES, PLATE, BARS
B. ASTM A53, GR. B:	35/60	STEEL PIPE TYPE S
C. ASTM A252, GR. 3:	45/66	ALL PILES
D. ASTM A325:	-/120	BOLTS
E. ASTM A500, GR. B:	42,46/58	ROUND AND RECTANGULAR HSS
F. ASTM A563:	-/-	NUTS
G. ASTM A572, GR. 50	50/65	HP SHAPES
H. ASTM A615, GR. 60:	60/90	REINFORCING BAR
I. ASTM A992:	50/65	W-SHAPES
J. ASTM F1554, GR. 55:	55/75	ANCHOR RODS
K. ASTM F436:	-/-	WASHERS
L. AWS E70XX:	57/70	STEEL WELDING ELECTRODE
2. COATINGS: (REFER TO SECTION 05 05 00)		HOT-DIP GALVANIZED, UNO

ALUMINUM

1. MATERIAL SPECIFICATION	MIN STRENGTH (Fy/Fu, KSI)	APPLICABILITY
A. 6061-T6	35/42	ALL SHAPES UNO
B. TYPE 316 SS	30/75	FASTENERS BETWEEN ALUMINUM COMPONENTS

WELDING

1. CONFORM TO THE LATEST EDITION OF AWS D1.1 FOR ALL STRUCTURAL AND MISCELLANEOUS STEEL WELDING.
2. ALL WELDERS SHALL BE CERTIFIED BY WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO) OR AWS AND BE ABLE TO PRODUCE THE REQUIRED CONTINUITY RECORDS.
3. CONFORM TO THE LATEST EDITION OF AWS D1.2 FOR ALL ALUMINUM WELDING.

RAILING AND GUARDRAIL

1. ALUMINUM RAILING SHALL BE FABRIACTED OUT OF SCHEDULE 80 PIPE. STAINLESS STEEL RAILING SHALL BE TYPE 316. ALL HARDWARE SHALL BE STAINLESS STEEL TYPE 316. RAILING AND GUARDRAIL SHALL BE SHALL BE DESIGNED TO COMPLY WITH APPLICABLE IBC AND OSHA LOADING AND GEOMETRY REQUIREMENTS.
2. CONTRACTOR SHALL BE RESPONSBILE TO DETERMINE FINAL DETAILS AND DIMENSIONS OF ALL NEW HANDRAIL. CONTRACTOR NEEDS TO VERIFY EXISTING ELEVATION WITH PROPOSED ELEVATIONS.

PILING CAPS

1. ALL PILING CAPS SHALL BE BLACK FIBERGLASS, CHEYENNE MANUFACTURING, INC. (1-800-424-7575) OR CITY APPROVED EQUAL.

GATES

1. ALUMINUM GATES INSTALLED ON ALUMINUM STRUCTURES AND AT THE BOAT RAMP SHALL HAVE THE FOLLOWING. MAXIMUM 4" OPENING, A 6" TALL KICKPLATE, STAINLESS STEEL SPRING CLOSE MECHANISM, BUTTERFLY LATCH ONE SIDE WITH WELDED ALUMINUM 1/4" PLATE STOPPER AND PLASTIC/NEOPRENE BEARING AT STOPPER WITH MECHANICAL SS SCREWS FOR ATTACHEMENT.

ALUMINUM STRUCTURES

1. PROVIDE FINAL DESIGN OF ALL ALUMINUM STRUCTURES, INCLUDING GANGWAYS, PLATFORMS, AND WALKWAYS, IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS.

DESIGN LOADS

1. DESIGN LOADS AND REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND THE SPECIFICATIONS.
2. DEAD LOADS:
   - SELF WEIGHT OF STRUCTURES, INCLUDING APPURTENANCES AND ATTACHMENTS
3. LIVE LOADS:
   - UNIFORM LOAD: 100 PSF OVER DECK SURFACE AREA (20 PSF FOR FLOTATION CAPACITY)
   - POINT LOAD: 400 LB ACTING ON A 1 SQ FT AREA AT ANY POINT ON DECK SURFACE
4. SNOW LOADS:
   - 30 PSF OVER DECK SURFACE AREA
5. WIND LOADS:
   - DESIGN WIND SPEED: V = 98 MPH
   - WIND IMPORTANCE FACTOR: I = 1.0 (OCCUPANCY CATEGORY II)
   - EXPOSURE CATEGORY: = D
6. WAVE LOADS:
   - MIN 200 LB/FT
7. DEFLECTION:
   - LL ONLY: L/500
   - DL + LL: L/360
8. DESIGN VESSEL
   THE DESIGN VESSEL FOR THE FLOATING DOCK SYSTEMS IS A TYPICAL RECREATIONAL 20 FOOT LONG POWER BOAT.

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Client: CITY OF SEATAC EST. 1990

Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGECOMB, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	2	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

Scale at ANSI D	Status	Rev	Security
N/A			

Drawing Number: G0.01

Title: Angle Lake Park Waterfront Improvements

GENERAL NOTES 1

SPECIAL INSPECTION

1. THE CRITICAL ELEMENTS REQUIRING CONTRACTOR-PROVIDED SPECIAL INSPECTION PER IBC CHAPTER 17 ARE AS FOLLOWS:
   - A. CAST-IN-PLACE CONCRETE, PRECAST CONCRETE
     1. REINFORCEMENT AND FORMWORK, PERIODIC.
     2. CONCRETE PLACEMENT, PROTECTION, AND CURING, PERIODIC.
     3. CONCRETE ANCHORS AND EMBEDDED ITEMS, PERIODIC.
   - B. STRUCTURAL STEEL
     1. FULL PENETRATION WELDS, CONTINUOUS.
     2. BOLTING INSTALLATION, PERIODIC.
   - C. PILE DRIVING AND TESTING
     1. PILE INSTALLATION, PERIODIC.

PILE DRIVING

1. THE CONTRACTOR SHALL MOBILIZE ALL REQUIRED EQUIPMENT FOR PILE INSTALLATION WORK INCLUDING A VIBRATORY HAMMER.

2. UTILIZE A TEMPLATE OR DRIVING FRAME TO MAINTAIN PROPER ALIGNMENT OF PILE DURING INSTALLATION. PILES SHALL BE INSTALLED TO ACHIEVE THE MINIMUM TIP ELEVATIONS AND CAPACITIES SHOWN ON THE DRAWINGS. SELECT AN APPROPRIATE VIBRATORY HAMMER TYPE AND SIZE, AS REQUIRED TO ACHIEVE THE PILE TIP DEPTHS AND REQUIRED LOAD CAPACITIES WITHOUT DAMAGING THE PILING, IN COMPLIANCE WITH THE RELEVANT PERMIT AND PROJECT DOCUMENTS. SUBMIT PILE LOGS WITHIN 24 HOURS OF EACH PILE INSTALLATION TO THE OWNER. MAINTAIN HAMMERS IN PROPER ALIGNMENT DURING INSTALLATION OPERATIONS BY USE OF LEADS OR GUIDES ATTACHED TO THE HAMMER. REMOVE AND REPLACE PILES DAMAGED DURING INSTALLATION AT THE CONTRACTOR'S EXPENSE.

3. DETERMINE FINAL PILE LOCATIONS TO CORRESPOND WITH THE LOCATIONS OF PILE GUIDES ON THE FLOATS.

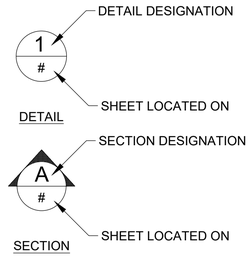
4. DO NOT DEMOBILIZE PILE INSTALLATION EQUIPMENT PRIOR TO OWNER AND ENGINEER ACCEPTANCE OF AS-BUILT PILE LOCATIONS AND PLUMBNESS. REMOBILIZATION DUE TO NON-CONFORMANCE IN PILE INSTALLATION WILL BE AT THE CONTRACTOR'S EXPENSE.

5. NOTIFY OWNER A MINIMUM OF FOUR WEEKS PRIOR TO THE START OF PILE INSTALLATION.

ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE
ACBM	ARTICULATED CONCRETE BLOCK MAT
ADA	AMERICANS WITH DISABILITIES ACT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASTM	ASTM INTERNATIONAL
AWS	AMERICAN WELDING SOCIETY
ALUM.	ALUMINUM
B.O.	BOTTOM OF
℄	CENTERLINE
CIP	CAST-IN-PLACE
CJP	COMPLETE JOINT PENETRATION
CONC.	CONCRETE
C..S.	CONFIRM ON SITE
CLR	CLEAR
⌀/DIA	DIAMETER
DL	DEAD LOAD
(E)	EXISTING
EA.	EACH
ETC.	ET CETERA
EL.	ELEVATION
E.W.	EACH WAY
FT	FOOT OR FEET
FRP	FIBER REINFORCED PLASTIC
FY	YIELD STRENGTH
FU	ULTIMATE STRENGTH
GALV.	GALVANIZED
GR	GRADE
HDPE	HIGH DENSITY POLYETHYLENE
IN	INCH OR INCHES
HSS	HOLLOW STRUCTURAL SECTION
IBC	INTERNATIONAL BUILDING CODE
INC.	INCORPORATED
KSI	KILOPOUND PER SQUARE INCH
L	LENGTH
LB	POUND
LB/FT	POUND PER FOOT
LL	LIVE LOAD
LONG.	LONGITUDINAL
MAX	MAXIMUM
MFR.	MANUFACTURER
MIN	MINIMUM
MPH	MILES PER HOUR
NO./#	NUMBER
O.C.	ON CENTER
OHW	ORDINARY HIGH WATER
PL	PLATE
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
REINF.	REINFORCING
SIM	SIMILAR
SS	STAINLESS STEEL
SYM	SYMMETRICAL
SQ FT	SQUARE FOOT
T&B	TOP AND BOTTOM
T.O.	TOP OF
TYP	TYPICAL
UHMW	ULTRA HIGH MOLECULAR WEIGHT
U.N.O.	UNLESS NOTED OTHERWISE
V	VELOCITY / VERTICAL
WABO	WASHINGTON ASSOCIATION OF BUILDING OFFICIALS
WP	WORK POINT
W/	WITH
XS	EXTRA STRONG
~	APPROXIMATELY
@	AT
'	MINUTES OR FEET
"	SECONDS OR INCHES
°	DEGREES
%	PERCENT
+/-	PLUS OR MINUS

SHEET SYMBOLS



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DOUGLAS EDGECOMB — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER
9/4/26

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Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	
Scale at ANSI D	Status		Rev	Security	

Drawing Number: G0.02

Title: Angle Lake Park Waterfront Improvements

GENERAL NOTES 2

N

LIFEGUARD SHACK
PROPERTY BOUNDARY, TYP.
EXISTING BLACKBERRY ON BEACH
EXISTING TREES (TO BE PROTECTED)
WETLAND AREA
EXISTING STEEL FENCE
SAND BEACH SWIM ACCESS AND KAYAK LAUNCH
CONCRETE PATH
CONCRETE PATH
CONCRETE STAIRS WITH RAILING
SAND BEACH AREA
CONCRETE SWIM ACCESS STAIRS
PICNIC AREA, TYP.
SWIM AREA
TREE, TYP.
ADA ACCESS RAMP WITH RAILING TO BOAT RAMP
TREE (TO BE PROTECTED)
STACKED STONE WALL
FISHING PIER GANGWAY
CONCRETE CONNECTING PIER WITH RAILING
CEDAR TREE (TO BE PROTECTED)
WETLAND AREA
SIGNAGE (TO BE PROTECTED)
BOAT RAMP GANGWAY
BOARDING FLOATS
CONCRETE FLOATING DOCK FISHING PIER
FENCE (TO BE PROTECTED)
BOAT RAMP
OUTFALL (TO BE PROTECTED)

365 370 375 380 360 355 345 340 335 330 325 320 315

54'-9"±
79'-6"±
117'-0"±
11'-0"±
33'-0"±
45'-0"±
62'-0"±
19'-3"± CURB TO CURB
8'-0"±
11'-0"±

LEGEND

- SAND BEACH AREA
- CONCRETE PATH
- BLACKBERRY BUSH
- ORDINARY HIGH WATER (OHW)
- FENCE
- TREE
- # PHOTO CALLOUT (SEE SHEETS G9.01-G9.02)

SITE PLAN

EXISTING CONDITIONS

0 20 40

SCALE IN FEET

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STATE OF WASHINGTON DOUGLAS EDGECOMB 2008 REGISTERED PROFESSIONAL ENGINEER
9/4/26

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507106437	4	33

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Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	
Scale at ANSI D: 1" = 20'	Status		Rev		Security

Drawing Number: G1.01

Title: Angle Lake Park Waterfront Improvements

EXISTING SITE PLAN

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PHOTO 1
UPPER BOAT LAUNCH AREA, LOOKING SOUTHEAST

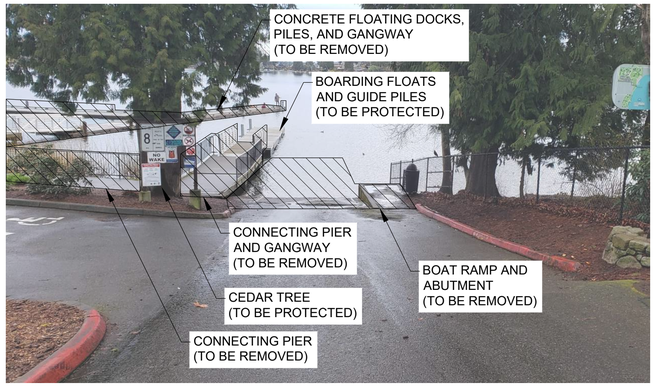


PHOTO 2
UPPER BOAT LAUNCH AREA, LOOKING EAST



PHOTO 3
ADA PARKING AREA, LOOKING NORTHEAST

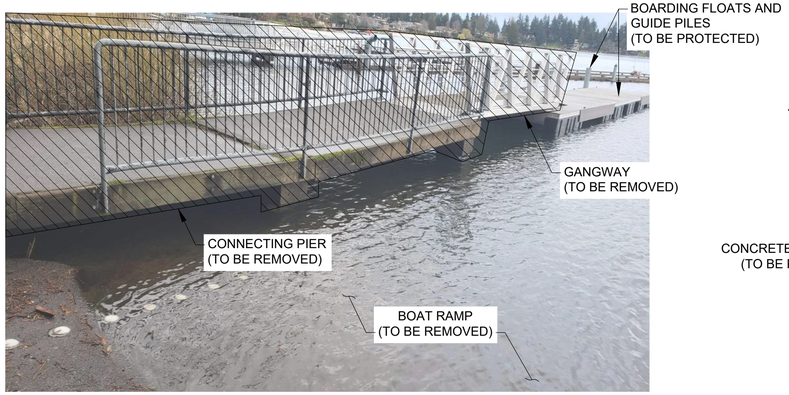


PHOTO 4
BOARDING FLOAT AREA, LOOKING NORTHEAST

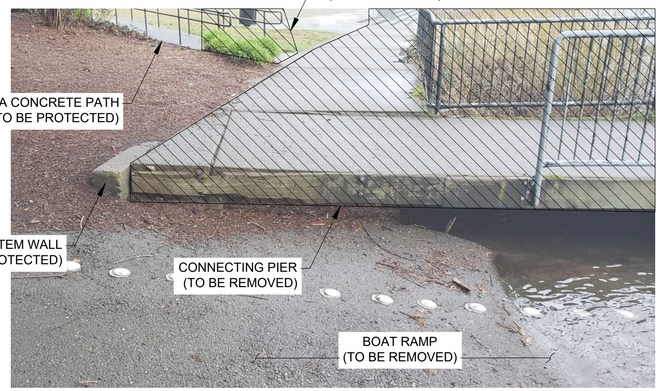


PHOTO 5
BOAT LAUNCH AREA, LOOKING NORTH



PHOTO 6
CONCRETE FLOATING DOCK, LOOKING EAST



PHOTO 7
CONNECTING PIER, LOOKING SOUTHWEST



PHOTO 8
CONCRETE FLOATING DOCK AND CONNECTING PIER, LOOKING WEST



PHOTO 9
BOARDING FLOATS, LOOKING SOUTHWEST

FOR BID

MOTT MACDONALD
1601 5th Avenue
Suite 800
Seattle, Washington 98101
T +1 (425) 778 6243
www.mottmac.com

Client: CITY OF SEATAC EST. 1990

Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS LAWRENCE BAKER — STATE OF WASHINGTON — 45811 — REGISTERED PROFESSIONAL ENGINEER
9/4/26

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

Project Number	B/O	Total	Scale at ANSI D	Status	Rev	Security
507106437	5	33	None			

Drawing Number: G9.01

Title: Angle Lake Park
Waterfront Improvements

EXISTING SITE PHOTOS 1



PHOTO 10
ADA CONCRETE PATH, LOOKING SOUTH



PHOTO 11
SWIMMING AREA, LOOKING NORTH



PHOTO 12
UNDER CONNECTING PIER, LOOKING SOUTHWEST



PHOTO 13
BEACH AREA, LOOKING EAST



PHOTO 14
SWIM ACCESS STAIRS, LOOKING SOUTHWEST



PHOTO 15
KAYAK LAUNCH AREA, LOOKING NORTHEAST



PHOTO 16
KAYAK LAUNCH AREA, LOOKING SOUTHEAST



PHOTO 17
SWIM ACCESS STAIRS, LOOKING NORTH

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Client: CITY OF SEATAC EST. 1990

Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGECOMB STATE OF WASHINGTON 24000 REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	6	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

Scale at ANSI D	Status	Rev	Security
None			

Drawing Number: G9.02

Title: Angle Lake Park Waterfront Improvements

EXISTING SITE PHOTOS 2

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N

LIFEGUARD SHACK
(TO BE PROTECTED)

PROPERTY
BOUNDARY, TYP.

BLACKBERRY BUSH ON BEACH
(TO BE REMOVED)

EXISTING TREES
(TO BE PROTECTED)

WETLAND AREA
(TO BE PROTECTED)

EXISTING OUTER TWO
PANELS OF STEEL FENCE
(TO BE REMOVED)

CONCRETE PATH
(TO BE PROTECTED)

SAND BEACH SWIM ACCESS
AND KAYAK LAUNCH

CONCRETE PATH
(TO BE PROTECTED)

CONCRETE STAIRS
(TO BE PROTECTED)

SAND BEACH
AREA

CONCRETE PATH
(TO BE PROTECTED)

CONCRETE SWIM ACCESS STAIRS
(TO BE PROTECTED)

CONCRETE WALL
(TO BE PROTECTED)

SWIM AREA

365
370
375
380
360
355
345
340
335
330
325
320
315

TREE, TYP.
(TO BE PROTECTED)

CONCRETE STEM WALL
(TO BE PROTECTED)

A
D2.01

PORTION OF ADA ACCESS
RAMP TO BOAT RAMP
(TO BE REMOVED)

36' DIAMETER CRITICAL ROOT ZONE

20'X20' LAYDOWN AREA IN ASPHALT
PARKING (TO BE PROTECTED)

STACKED STONE WALL
(TO BE PROTECTED)

C
D4.01

49'-0"±

6'X18' ALUMINUM
PIER GANGWAY
(TO BE REMOVED)

79'-6"±

344

CONCRETE CONNECTING
PIER AND (15) TIMBER PILES
(TO BE REMOVED)

WETLAND AREA
(TO BE PROTECTED)

6'X18' ALUMINUM
RAMP GANGWAY
(TO BE REMOVED)

D
D4.01

11'-0"±

BOAT RAMP
ACCESS PATH
(TO BE PROTECTED)

TREE (TO BE
PROTECTED)

B
D2.01

34'-0"±

20'-5"±

62'-0"±

45'-0"±

335

331

8'-0"±

117'-0"±

CONCRETE FLOATING DOCK,
(3) GALV. STEEL PILES, AND
(4) TIMBER PILES
(TO BE REMOVED)

11'-0"±

SAWCUT

CUT AND CAP SPRINKLERS

340

BOARDING FLOAT
AND STEEL PILES
(TO BE PROTECTED)

EXISTING OUTFALL
(TO BE REMOVED)

E
D4.01

CONCRETE BOAT
RAMP AND PLATFORM
(TO BE REMOVED)

1

WETLAND AREA
(TO BE PROTECTED)

LEGEND

- TO BE REMOVED
- SAND BEACH AREA
- CONCRETE PATH
- OHW — OHW — ORDINARY HIGH WATER (OHW)
- TREE

SITE PLAN
EXISTING CONDITIONS
0 20 40
SCALE IN FEET

FOR BID

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1601 5th Avenue
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Rev	Date	Drawn	Description	Ch'k'd	App'd
1	10/22/26		ADDENDUM		
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGECOMB STATE OF WASHINGTON 45897 REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	7	33

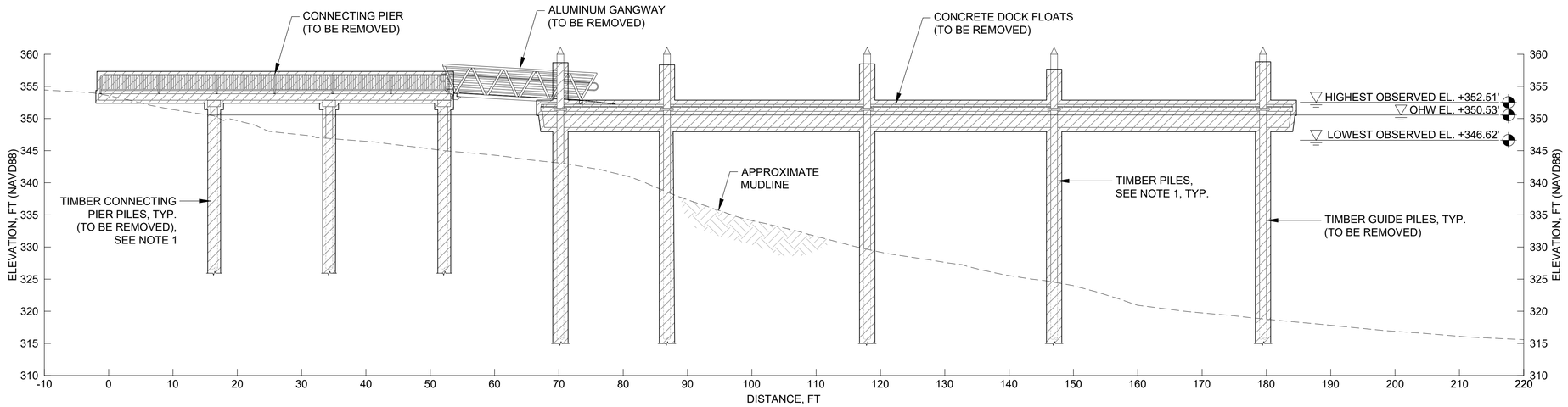
Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	
Scale at ANSI D: 1" = 20'		Status	Rev	Security	

Drawing Number: D1.01

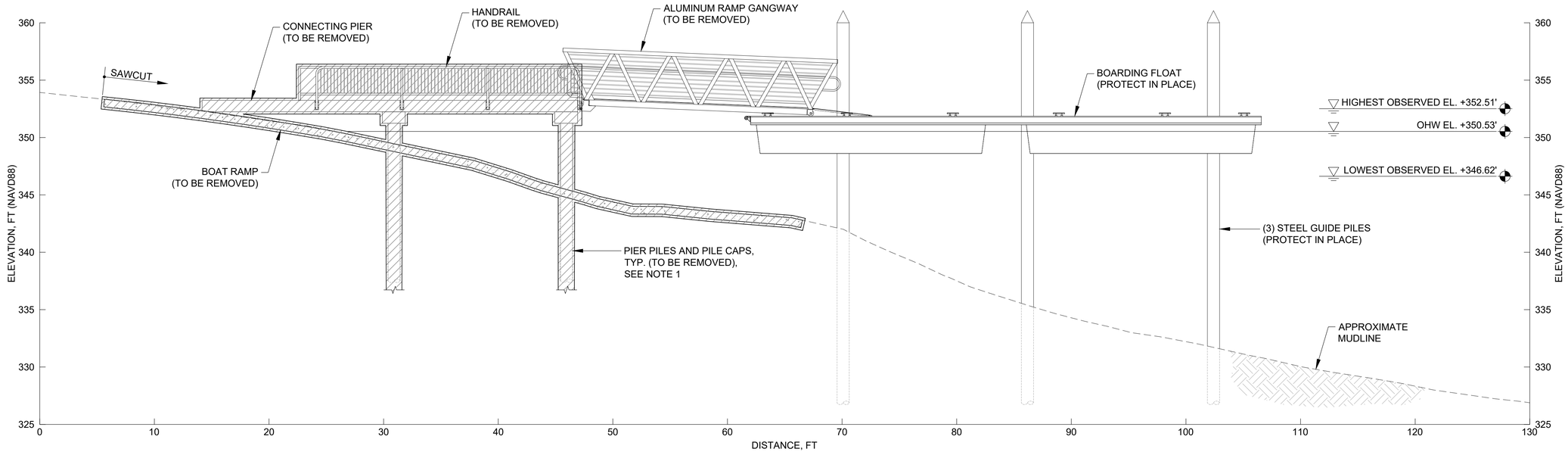
Title
Angle Lake Park
Waterfront Improvements

OVERALL DEMOLITION PLAN

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A D1.01 ELEVATION
EXISTING FLOATING DOCK
0 10 20
SCALE IN FEET



B D1.01 ELEVATION
EXISTING BOAT RAMP
0 5 10
SCALE IN FEET

NOTE

1. CUT TIMBER PILES 2 FEET BELOW MUDLINE IF THEY BREAK DURING THE EXTRACTION PROCESS.

FOR BID

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Client: CITY OF SEATAC EST. 1990

Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS E. EDGECOMB STATE OF WASHINGTON 48511 REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	8	33

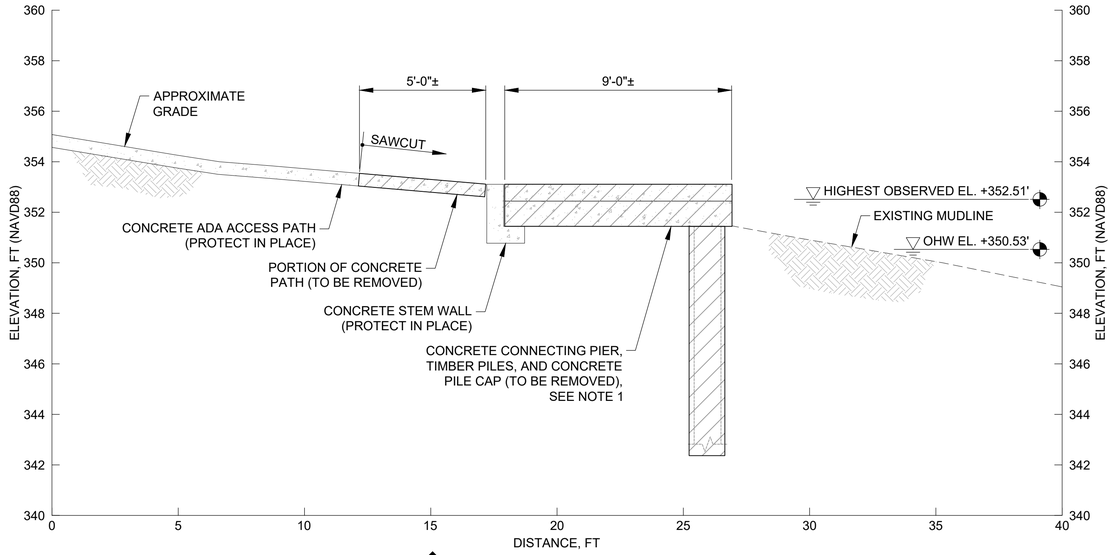
Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	
Scale at ANSI D: As Shown	Status		Rev		Security

Drawing Number: D2.01

Title: Angle Lake Park
Waterfront Improvements

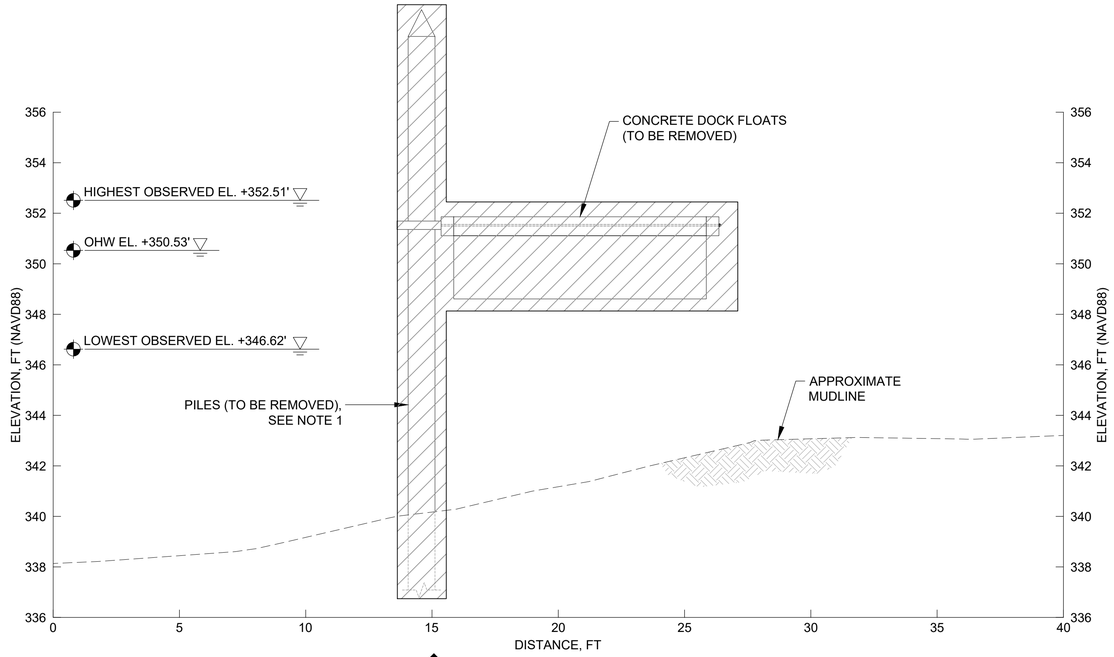
DEMOLITON ELEVATIONS

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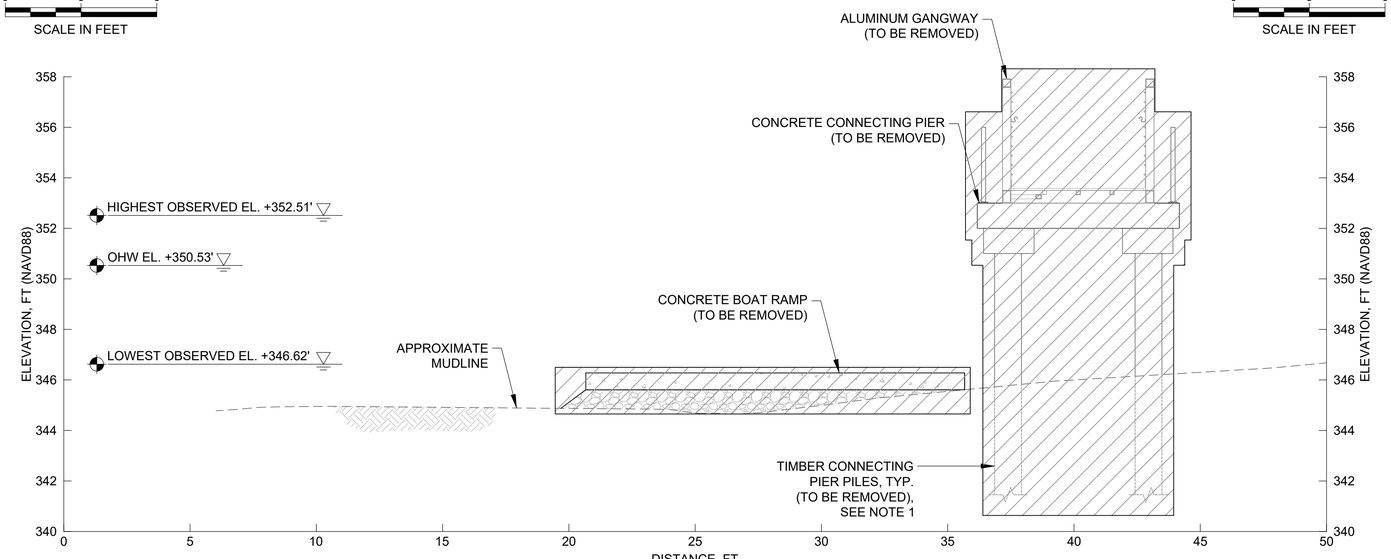
C D1.01 SECTION
EXISTING CONNECTING PIER

SCALE IN FEET 0 3 6



D D1.01 SECTION
EXISTING FLOATING DOCK

SCALE IN FEET 0 3 6



E D1.01 SECTION
EXISTING BOAT RAMP

SCALE IN FEET 0 3 6

NOTE

1. CUT TIMBER PILES 2 FEET BELOW MUDLINE IF THEY BREAK DURING THE EXTRACTION PROCESS.

FOR BID

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Client: CITY OF SEATAC EST. 1990

Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGECOMB, STATE OF WASHINGTON, 48557, REGISTERED PROFESSIONAL ENGINEER
9/4/26

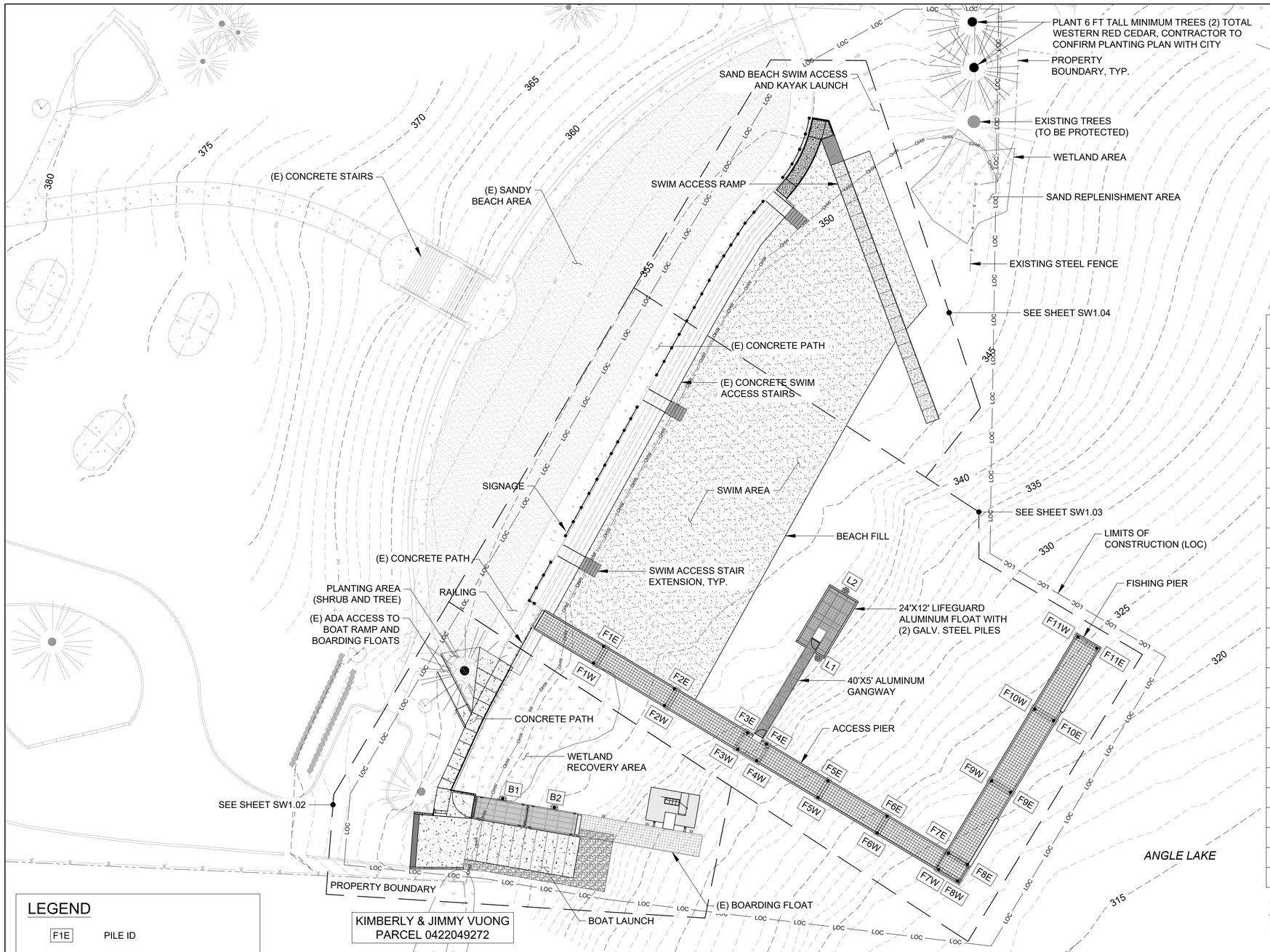
Project Number	B/O	Total
507106437	9	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	
Scale at ANSI D: 1" = 3'	Status		Rev		Security

Drawing Number: D4.01

Title: Angle Lake Park Waterfront Improvements

DEMOLITION DETAILS



LEGEND

F1E	PILE ID
	RAILING
OHW OHW	ORDINARY HIGH WATER (OHW)
LOC	LIMITS OF CONSTRUCTION (LOC)

SITE PLAN

0 20 40

SCALE IN FEET

PILE SCHEDULE

PILE	NORTHING	EASTING	PILE SIZE	CUTOFF EL.	TIP EL.	BIRD CAP
B1	159326.18	1279180.54	12.75" X 0.500"	358.0'	325.0'	Y
B2	159322.94	1279199.26	12.75" X 0.500"	358.0'	325.0'	Y
F1E	159381.44	1279217.16	12.75" X 0.500"	352.5'	325.0'	N
F1W	159375.44	1279213.56	12.75" X 0.500"	352.5'	325.0'	N
F2E	159366.02	1279242.89	12.75" X 0.500"	352.5'	320.0'	N
F2W	159360.03	1279239.30	12.75" X 0.500"	352.5'	320.0'	N
F3E	159350.08	1279269.47	12.75" X 0.500"	352.5'	315.0'	N
F3W	159344.10	1279265.89	12.75" X 0.500"	352.5'	315.0'	N
F4E	159345.96	1279276.34	12.75" X 0.500"	352.5'	315.0'	N
F4W	159339.98	1279272.76	12.75" X 0.500"	352.5'	315.0'	N
F5E	159332.61	1279298.65	12.75" X 0.500"	352.5'	310.0'	N
F5W	159326.61	1279295.05	12.75" X 0.500"	352.5'	310.0'	N
F6E	159319.76	1279320.09	12.75" X 0.500"	352.5'	305.0'	N
F6W	159313.76	1279316.49	12.75" X 0.500"	352.5'	305.0'	N
F7E	159306.38	1279342.40	12.75" X 0.500"	352.5'	300.0'	N
F7W	159300.40	1279338.80	12.75" X 0.500"	352.5'	300.0'	N
F8E	159302.28	1279349.25	12.75" X 0.500"	352.5'	300.0'	N
F8W	159296.29	1279345.66	12.75" X 0.500"	352.5'	300.0'	N
F9E	159328.44	1279364.93	12.75" X 0.500"	352.5'	300.0'	N
F9W	159332.55	1279358.07	12.75" X 0.500"	352.5'	300.0'	N
F10E	159354.60	1279380.60	12.75" X 0.500"	352.5'	305.0'	N
F10W	159358.71	1279373.74	12.75" X 0.500"	352.5'	305.0'	N
F11E	159380.77	1279396.29	12.75" X 0.500"	352.5'	305.0'	N
F11W	159384.88	1279389.42	12.75" X 0.500"	352.5'	305.0'	N
L1	159377.25	1279295.29	12.75" X 0.500"	358.0'	315.0'	Y
L2	159401.50	1279305.16	12.75" X 0.500"	358.0'	315.0'	Y

NOTES

1. MINIMUM PILE EMBEDMENT: 20 FT (ALL PILES)

FOR BID

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Client: CITY OF SEATAC EST. 1990

Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS S. EDGECOMB — STATE OF WASHINGTON — 45811 — REGISTERED PROFESSIONAL ENGINEER — 9/4/26

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

Project Number	B/O	Total
507106437	10	33

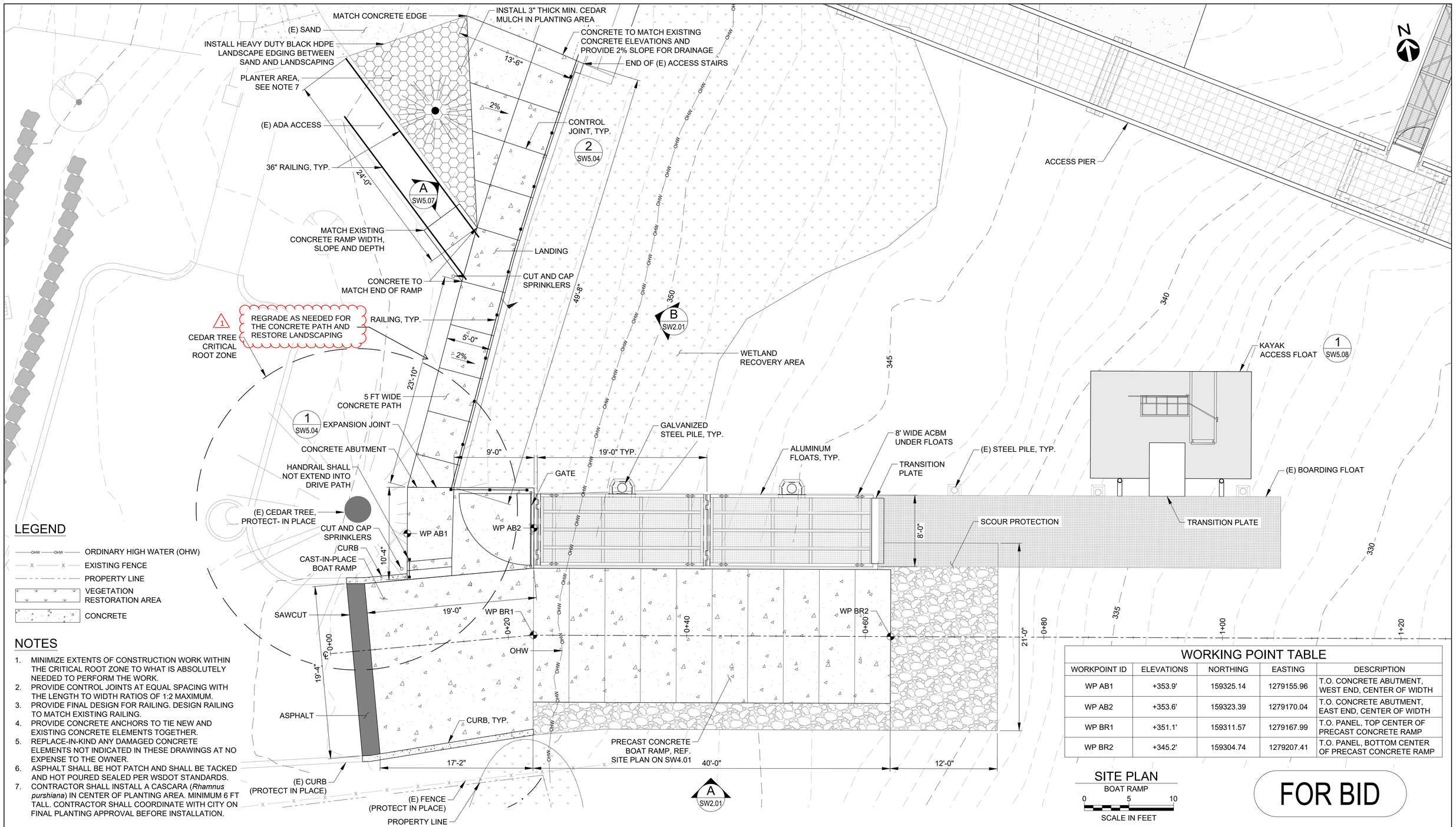
Scale at ANSI D	Status	Rev	Security
1" = 20'			

Drawing Number: SW1.01

Title: Angle Lake Park Waterfront Improvements

PROPOSED SITE PLAN

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LEGEND

- OHW — OHW — ORDINARY HIGH WATER (OHW)
- X — X — EXISTING FENCE
- PROPERTY LINE
- VEGETATION RESTORATION AREA
- CONCRETE

NOTES

1. MINIMIZE EXTENTS OF CONSTRUCTION WORK WITHIN THE CRITICAL ROOT ZONE TO WHAT IS ABSOLUTELY NEEDED TO PERFORM THE WORK.
2. PROVIDE CONTROL JOINTS AT EQUAL SPACING WITH THE LENGTH TO WIDTH RATIOS OF 1:2 MAXIMUM.
3. PROVIDE FINAL DESIGN FOR RAILING. DESIGN RAILING TO MATCH EXISTING RAILING.
4. PROVIDE CONCRETE ANCHORS TO TIE NEW AND EXISTING CONCRETE ELEMENTS TOGETHER.
5. REPLACE-IN-KIND ANY DAMAGED CONCRETE ELEMENTS NOT INDICATED IN THESE DRAWINGS AT NO EXPENSE TO THE OWNER.
6. ASPHALT SHALL BE HOT PATCH AND SHALL BE TACKED AND HOT POURED SEALED PER WSDOT STANDARDS.
7. CONTRACTOR SHALL INSTALL A CASCARA (*Rhamnus purshiana*) IN CENTER OF PLANTING AREA. MINIMUM 6 FT TALL. CONTRACTOR SHALL COORDINATE WITH CITY ON FINAL PLANTING APPROVAL BEFORE INSTALLATION.

WORKING POINT TABLE

WORKPOINT ID	ELEVATIONS	NORTHING	EASTING	DESCRIPTION
WP AB1	+353.9'	159325.14	1279155.96	T.O. CONCRETE ABUTMENT, WEST END, CENTER OF WIDTH
WP AB2	+353.6'	159323.39	1279170.04	T.O. CONCRETE ABUTMENT, EAST END, CENTER OF WIDTH
WP BR1	+351.1'	159311.57	1279167.99	T.O. PANEL, TOP CENTER OF PRECAST CONCRETE RAMP
WP BR2	+345.2'	159304.74	1279207.41	T.O. PANEL, BOTTOM CENTER OF PRECAST CONCRETE RAMP

SITE PLAN

BOAT RAMP

0 5 10

SCALE IN FEET

FOR BID

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1601 5th Avenue
Suite 800
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www.mottmac.com

Client: CITY OF SEATAC EST. 1990

Rev	Date	Drawn	Description	Ch'k'd	App'd
1	10/2/26		ADDENDUM		
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGE — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 9/4/26

Project Number	B/O	Total
507106437	11	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	
Scale at ANSI D: 1" = 5'	Status		Rev		Security
Drawing Number: SW1.02					

Title: Angle Lake Park Waterfront Improvements

BOAT LAUNCH AREA

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CENTERLINE OF RAILINGS AND STAIRS

EDGE OF (E) CONCRETE PATH

(E) SANDY BEACH AREA

65'-0"

OHW

(E) CONCRETE SWIM ACCESS STAIRS

CENTERLINE OF RAILINGS AND STAIRS

(E) CONCRETE PATH

22'-0"

355

350

345

340

335

330

325

320

60'-0" FROM CONCRETE WALL TO END OF BEACH FILL

SWIM AREA

BEACH FILL

SWIM ACCESS STAIR EXTENSION, SIM. (3) LOCATIONS

1 SW4.04

B SW2.04

A SW2.04

24'X12' LIFEGUARD FLOAT

40'X5' ALUMINUM GANGWAY

40'-0"

ANGLE LAKE

WP FP3

11

10'-0"

2 SW4.03

(2) ADA LOWER FISHING RAILING AREAS, TYP.

20'-0", TYP.

30'-6"

10

FISHING PIER

GUARDRAIL, TYP.

0+50

9

B SW2.02

1

2

3

4

5

6

26'-0"

30'-0"

30'-0"

26'-0"

25'-0"

26'-0"

ACCESS PIER

WP FP2

TRANSITION PLATE

-0+10

0+00

0+50

1+00

1+50

2+00

2+20

8'-0"

WP FP1

1 SW4.03

A SW2.02

STEEL PILE CAP, TYP.

STEEL PIPE PILE, TYP.

0+00

8'-0"

C SW4.03

7

-0+10

8

WETLAND RECOVERY AREA

LEGEND

OHW — OHW ORDINARY HIGH WATER (OHW)

(#) BENT NUMBER

NOTES

1. PROVIDE FINAL DESIGN FOR BENCHES ON THE FISHING PIER, ENSURING ADEQUATE SUPPORT TO THE ALUMINUM FRAMING. COORDINATE WITH CITY FOR BENCH LOCATIONS AND REQUIREMENTS.

SITE PLAN

FISHING PIER AREA

0 8 16

SCALE IN FEET

WORKING POINT TABLE

WORKPOINT ID	ELEVATIONS	NORTHING	EASTING	DESCRIPTION
WP FP1	+354.0'	159393.64	1279189.99	TOP OF DECK AND CENTER OF PIER
WP FP2	+354.0'	159301.34	1279344.03	TOP OF DECK AND CENTER OF PIER
WP FP3	+354.0'	159383.69	1279393.37	TOP OF DECK AND END CENTER OF PIER

FOR BID

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Client: CITY OF SEATAC EST. 1990

Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGECOMB — STATE OF WASHINGTON — 45819 — REGISTERED PROFESSIONAL ENGINEER — 9/4/26

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

Scale at ANSI D: 1" = 8' | Status | Rev | Security

Project Number: 507106437 | B/O: 12 | Total: 33

Drawing Number: SW1.03

Title: Angle Lake Park Waterfront Improvements

FISHING PIER AREA

C:\pwworking\hmm\ports_harbors\mor69830\dms67789\SW1.03.dwg Sep 4, 2026 - 6:13PM MOR69830

PROPOSED TREE

PROPOSED TREE

EXISTING WETLAND AREA

OHW

355

340

345

ANGLE LAKE

N

(E) SAND BEACH SWIM ACCESS AND KAYAK LAUNCH

5'-6"

10'-0"

100'-0"

10' X 5' WIDE MOBI MAT

WP SR3

CONCRETE CURB

6'-1"

WP SR2

2%

ADA RAMP

3
SW4.04

5'-0"

WP SR4

LANDING EL. 353.0'

6'-10"

18'-6 1/2"

B
SW2.03

36" TALL ALUMINUM HANDRAIL

RADIUS OF CONCRETE RAMP 52.4'±

SLOPE SAND UP TO RAMP
GRADE AT RAILING OPENING

36" TALL ALUMINUM HANDRAIL

20'-0"

5'-0"

5'-6"

A
SW2.03

SWIM AREA

BEACH FILL

(E) SANDY BEACH AREA

2
SW4.04

CONCRETE ADA SWIM ACCESS RAMP

WP SR1

MATCH EXISTING ELEVATION

SWIM ACCESS STAIR EXTENSION, SIM. (3) LOCATIONS

1
SW4.04

(E) CONCRETE SWIM ACCESS STAIRS

(E) CONCRETE PATH

LEGEND

OHW — OHW ORDINARY HIGH WATER (OHW)

SITE PLAN

SWIM ACCESS RAMP AREA

0 5 10

SCALE IN FEET

WORKING POINT TABLE

WORKPOINT ID	ELEVATIONS	NORTHING	EASTING	DESCRIPTION
WP SR1	+354.0'± (MATCH EXISTING)	159547.75	1279283.58	TOP CENTER OF CONCRETE LANDING
WP SR2	+353.0'	159566.44	1279298.59	TOP OF CONCRETE, CENTER EDGE OF RAMP
WP SR3	+351.8'	159557.07	1279302.06	START RAMP, CENTER TOP EDGE OF RAMP
WP SR4	+345.2'	159463.27	1279336.75	END RAMP, CENTER TOP EDGE OF RAMP

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Client

CITY OF SEATAC EST. 1990

Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGE STATE OF WASHINGTON 45811 REGISTERED PROFESSIONAL ENGINEER 9/4/26

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

Scale at ANSI D: 1" = 5'

Status

Rev

Security

Project Number: 507106437

B/O: 13

Total: 33

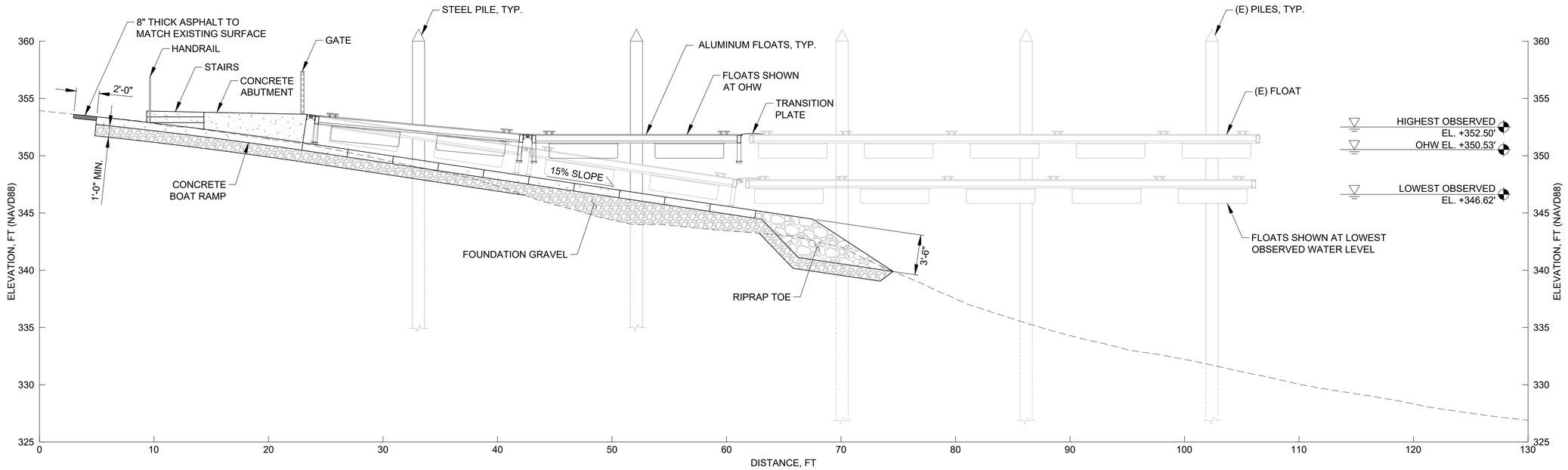
Drawing Number: SW1.04

Title

Angle Lake Park
Waterfront Improvements

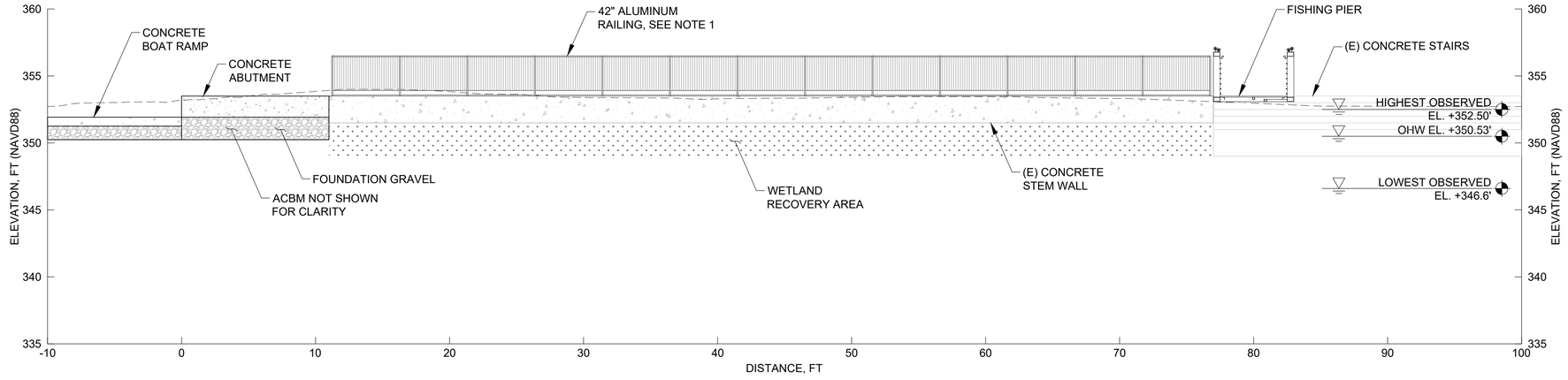
SWIM ACCESS AREA

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A SW1.02 ELEVATION
BOAT LAUNCH

0 5 10
SCALE IN FEET



B SW1.02 ELEVATION
CONCRETE PATH

0 5 10
SCALE IN FEET

NOTES

1. THE CONTRACTOR SHALL DETAIL AND DESIGN THE ALUMINUM RAILING AND CONNECTIONS. THE RAILING SHALL HAVE VERTICAL PICKETS WITH A MAX 4" OPENING AND SHALL BE PAINTED BLACK. RAILING BASE PLATE TO BE ATTACHED TO THE NEW CONCRETE PATH USING A MINIMUM OF (4) STAINLESS STEEL CONCRETE ANCHORS PER POST. COORDINATE WITH OWNER FOR APPROVAL OF PROPOSED RAILING.

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0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGE — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	14	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

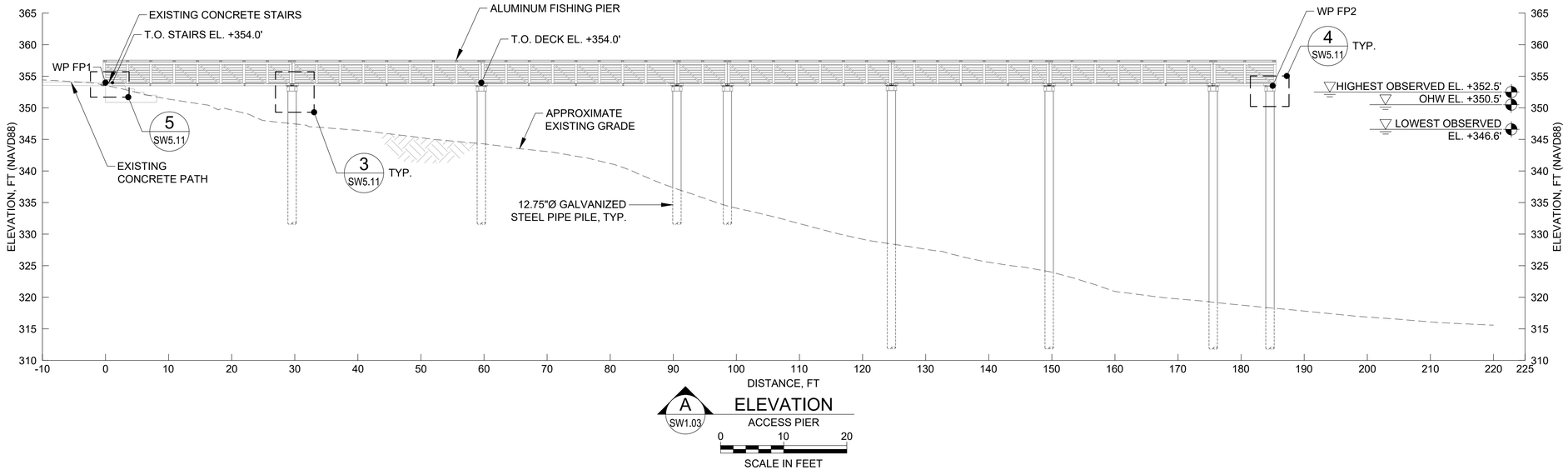
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1" = 5'			

Drawing Number: SW2.01

Title
Angle Lake Park
Waterfront Improvements

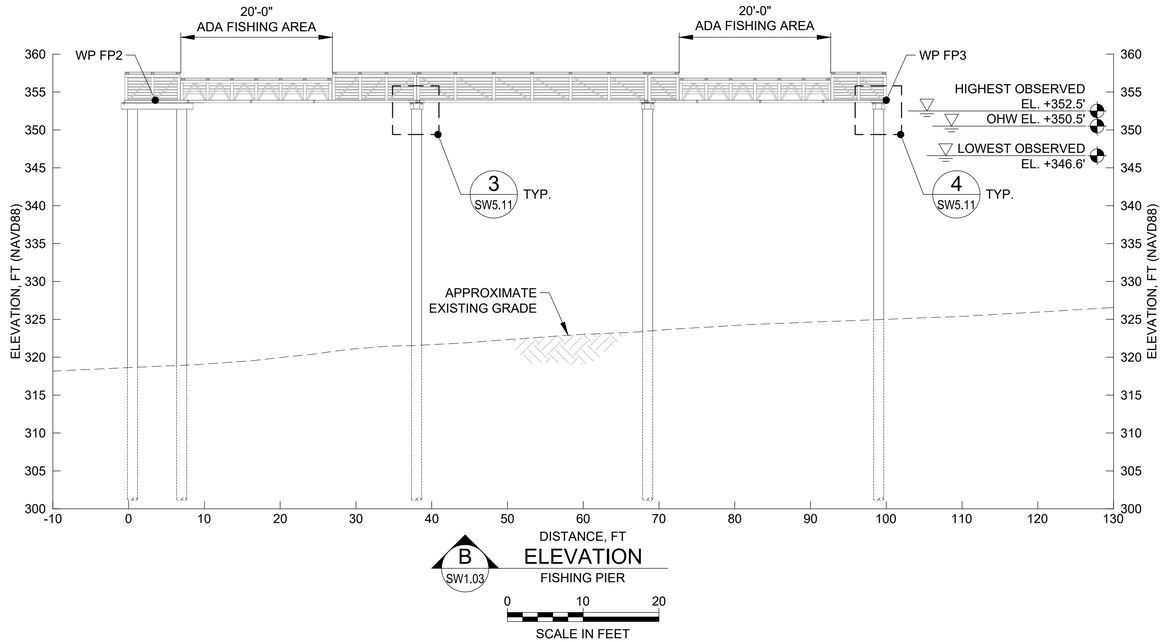
BOAT LAUNCH ELEVATIONS

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A SW1.03 **ELEVATION**
ACCESS PIER

0 10 20
SCALE IN FEET



B SW1.03 **ELEVATION**
FISHING PIER

0 10 20
SCALE IN FEET

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Client: CITY OF SEATAC EST. 1990

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0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGECOMB STATE OF WASHINGTON 45897 REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	15	33

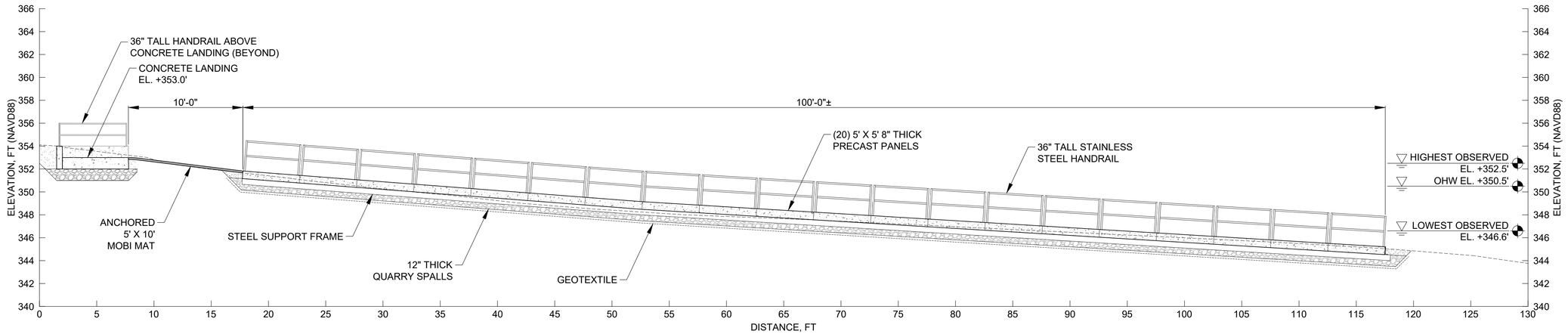
Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

Scale at ANSI D	Status	Rev	Security
1" = 10'			

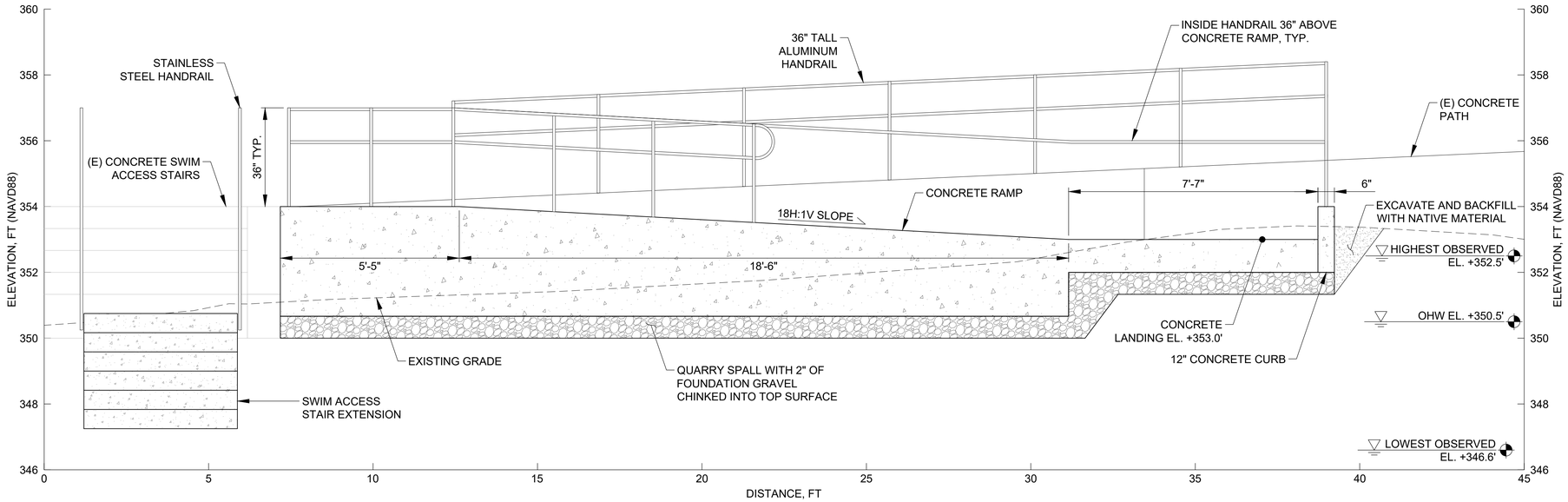
Drawing Number: SW2.02

Title: Angle Lake Park Waterfront Improvements

FISHING PIER ELEVATIONS



A SW1.04 **ELEVATION**
ADA SWIM ACCESS RAMP
0 5 10
SCALE IN FEET



B SW1.04 **ELEVATION**
CONCRETE ADA SWIM ACCESS RAMP
0 2 4
SCALE IN FEET

NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE FINAL DETAILS AND DIMENSIONS OF HANDRAIL ON RAMP TO BE 36" TALL. CONTRACTOR NEEDS TO VERIFY EXISTING CONCRETE ELEVATION WITH PROPOSED NEW RAMP.

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Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS E. DIX — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	16	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

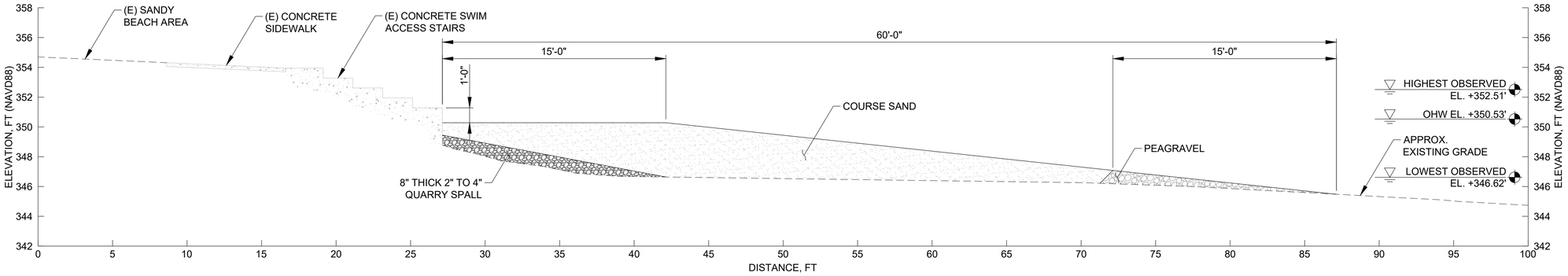
Scale at ANSI D	Status	Rev	Security
1" = 5'			

Drawing Number: SW2.03

Title: Angle Lake Park Waterfront Improvements

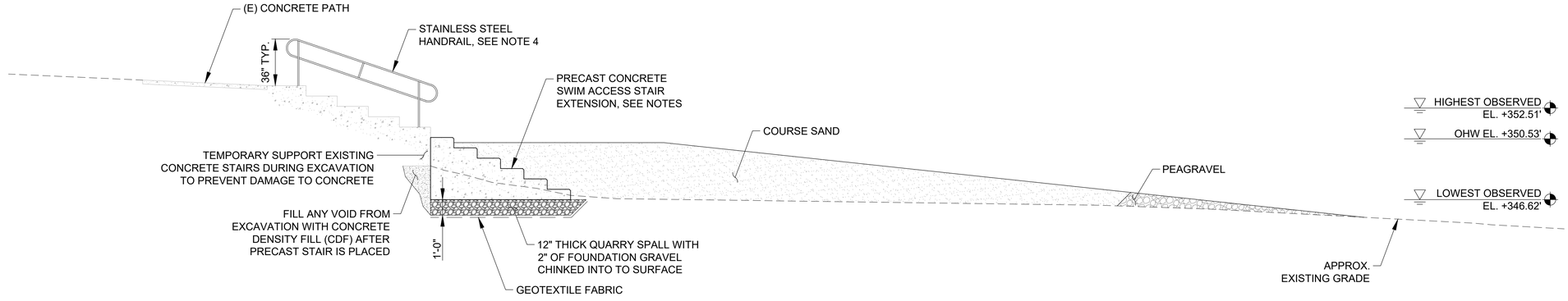
SWIM ACCESS ELEVATIONS 1

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A SW1.03 **SECTION**
BEACH FILL

0 4 8
SCALE IN FEET



B SW1.03 **TYPICAL SECTION**
SWIM ACCESS STAIR EXTENSION

0 4 8
SCALE IN FEET

NOTES

1. STAIR RISER AND TREAD DIMENSIONS TO MATCH EXISTING SWIM ACCESS STAIRS.
2. PROVIDE FINAL DESIGN FOR PRECAST STAIRS AND HANDRAIL FROM THE EXISTING SWIM ACCESS STAIRS AND ALUMINUM ADA RAMP. USE A MINIMUM OF #4 BARS AT 8" ON CENTER EVERY FACE. REINFORCEMENT AND CONCRETE DETAILING SHALL BE SIMILAR TO WHAT IS SHOWN IN SECTION C, SHEET SW5.04. 1
3. PROVIDE CHAMFERS AT EXPOSED CORNERS OF PRECAST ELEMENTS.
4. CONNECT RAILINGS TO CONCRETE USING CONCRETE STAINLESS STEEL SCREW ANCHORS.
5. CONNECT PRECAST SWIM ACCESS STAIR EXTENSIONS TO THE EXISTING SWIM ACCESS STAIRS.

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Rev	Date	Drawn	Description	Ch'k'd	App'd
1	10/2/26		ADDENDUM		
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGECOMB — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	17	33

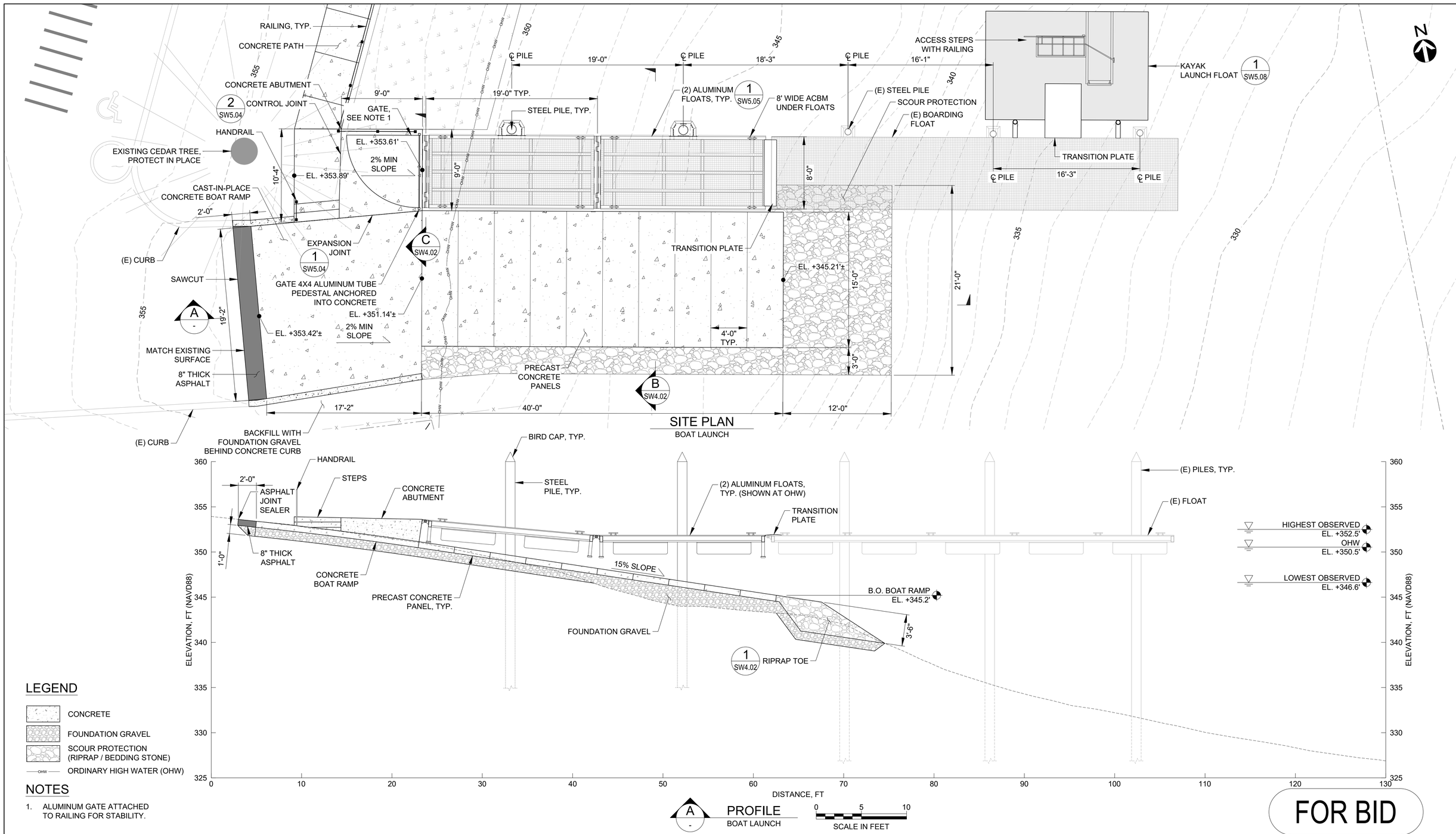
Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	
Scale at ANSI D: 1' = 4'	Status		Rev		Security

Drawing Number: SW2.04

Title: Angle Lake Park Waterfront Improvements

SWIM ACCESS ELEVATIONS 2

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SITE PLAN
BOAT LAUNCH

PROFILE
BOAT LAUNCH

SCALE IN FEET: 0, 5, 10

LEGEND

- CONCRETE
- FOUNDATION GRAVEL
- SCOUR PROTECTION (RIPRAP / BEDDING STONE)
- OHW — ORDINARY HIGH WATER (OHW)

NOTES

1. ALUMINUM GATE ATTACHED TO RAILING FOR STABILITY.

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Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGECOMB — STATE OF WASHINGTON — 48511 — REGISTERED PROFESSIONAL ENGINEER — 9/4/26

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

Scale at ANSI D	Status	Rev	Security
1" = 5'			

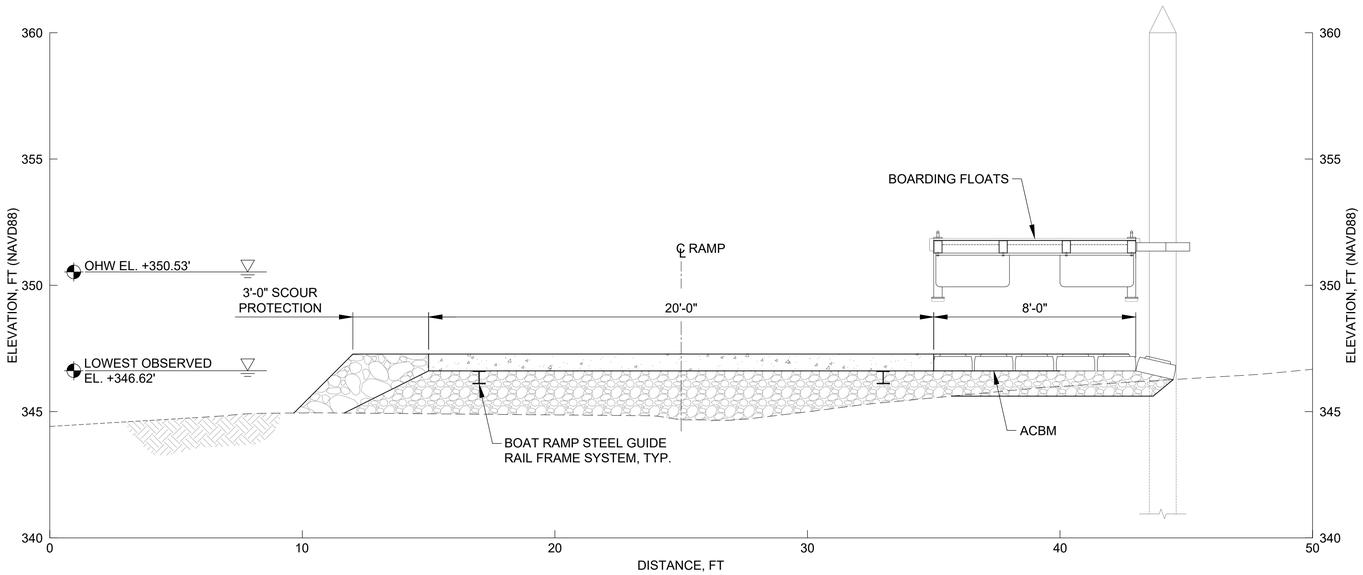
Project Number	B/O	Total
507106437	18	33

Drawing Number: SW4.01

Title: Angle Lake Park Waterfront Improvements

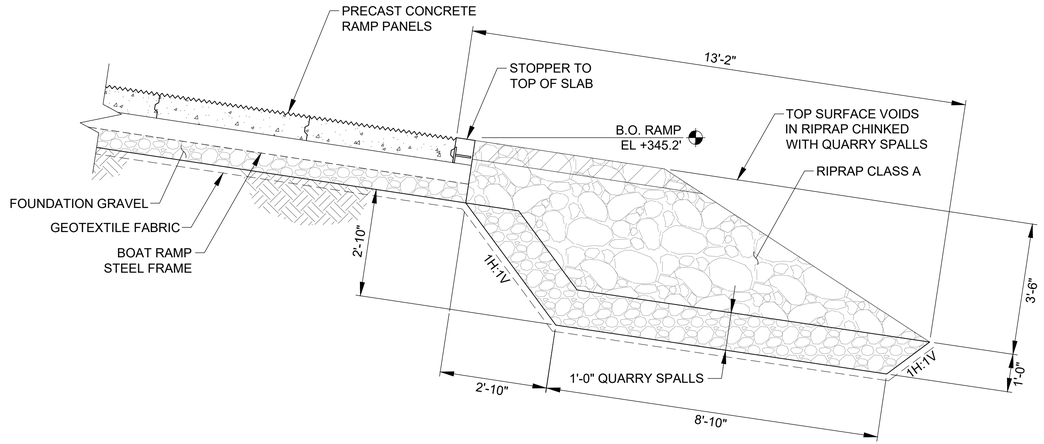
BOAT LAUNCH PLAN AND PROFILE

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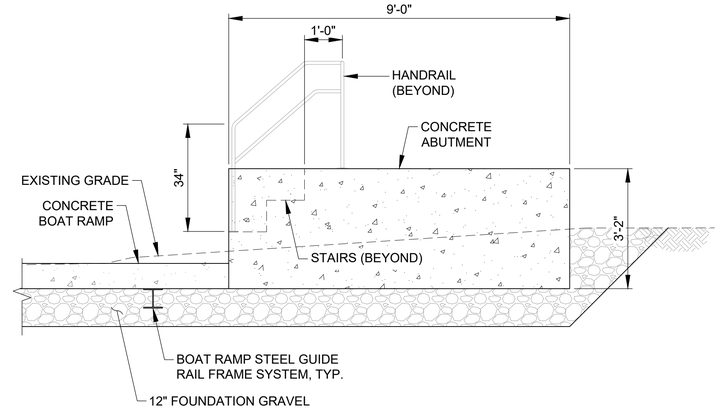
B / SW4.01 — SECTION
BOAT RAMP

0 3 6
SCALE IN FEET



1 / SW4.01 — DETAIL
BOAT RAMP TOE

0 2 4
SCALE IN FEET



C / SW4.01 — SECTION
ABUTMENT

0 2 4
SCALE IN FEET

LEGEND

- FOUNDATION GRAVEL
- QUARRY SPALLS
- CONCRETE
- RIPRAP CLASS A

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DOUGLAS EDGECOMB — STATE OF WASHINGTON — 45511 — REGISTERED PROFESSIONAL ENGINEER
9/4/26

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

Scale at ANSI D	Status	Rev	Security
1" = 5'			

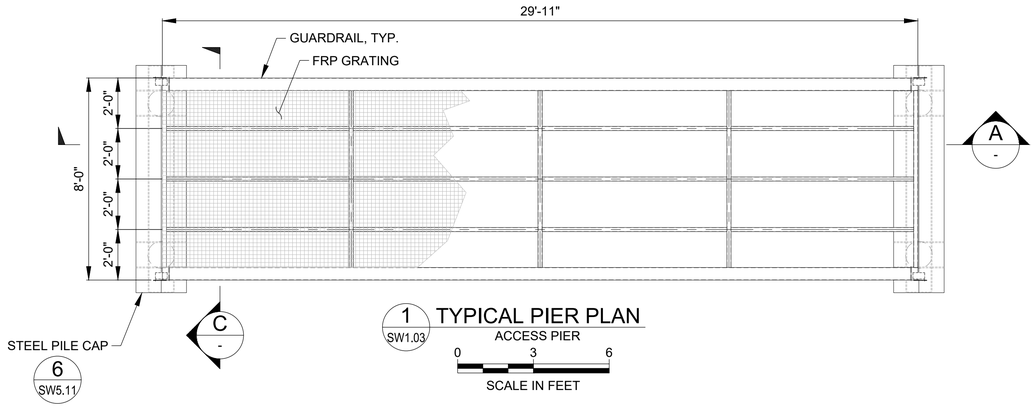
Project Number	B/O	Total
507106437	19	33

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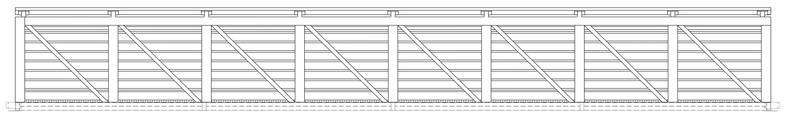
Title: Angle Lake Park
Waterfront Improvements

BOAT LAUNCH SECTIONS

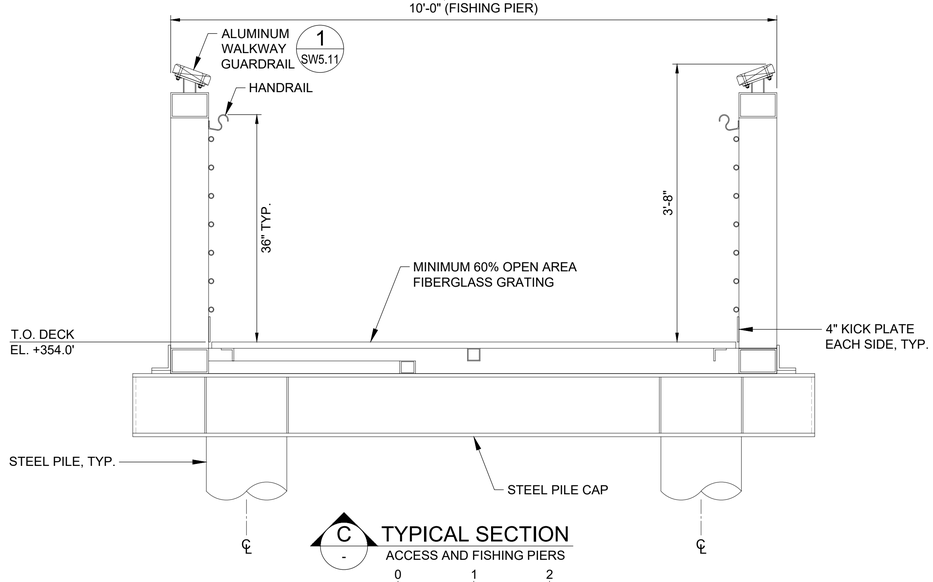
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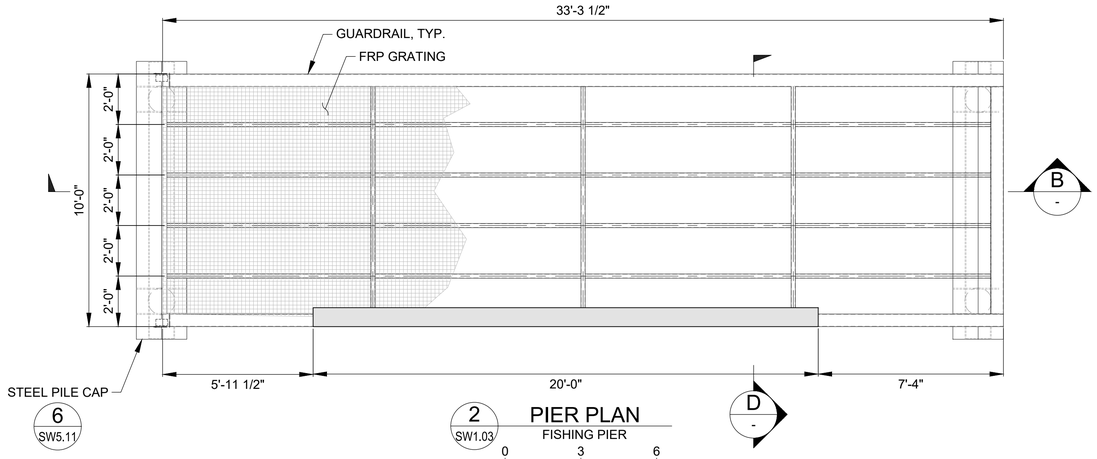
1 SW1.03 **TYPICAL PIER PLAN**
ACCESS PIER
0 3 6
SCALE IN FEET



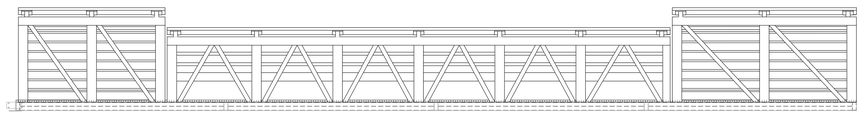
A - **ELEVATION**
ACCESS PIER
0 3 6
SCALE IN FEET



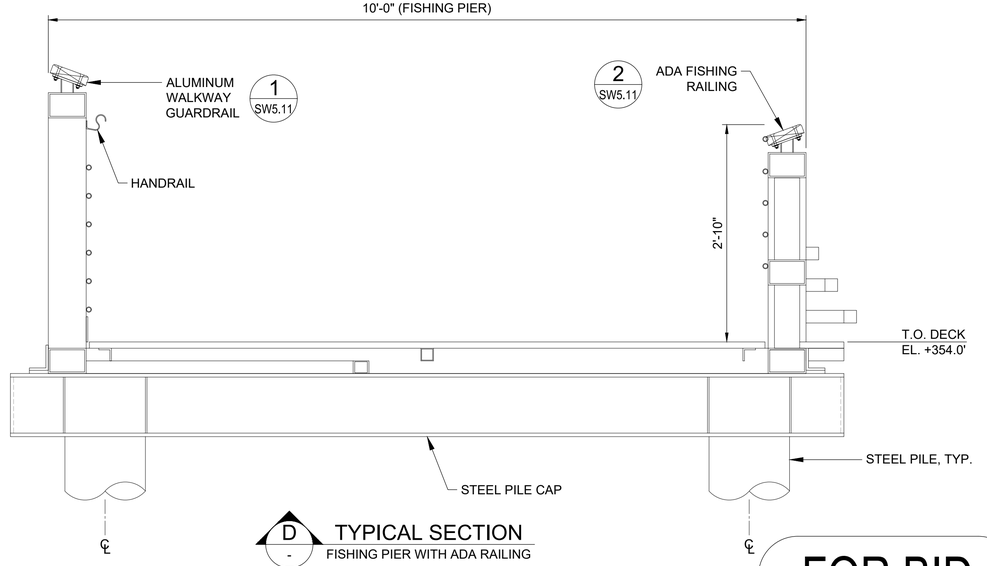
C - **TYPICAL SECTION**
ACCESS AND FISHING PIERS
0 1 2
SCALE IN FEET



2 SW1.03 **PIER PLAN**
FISHING PIER
0 3 6
SCALE IN FEET



B - **ELEVATION**
FISHING PIER
0 3 6
SCALE IN FEET



D - **TYPICAL SECTION**
FISHING PIER WITH ADA RAILING
0 1 2
SCALE IN FEET

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0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS E. RICE — STATE OF WASHINGTON — 43577 — REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	20	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	
Scale at ANSI D: As Shown	Status		Rev		Security

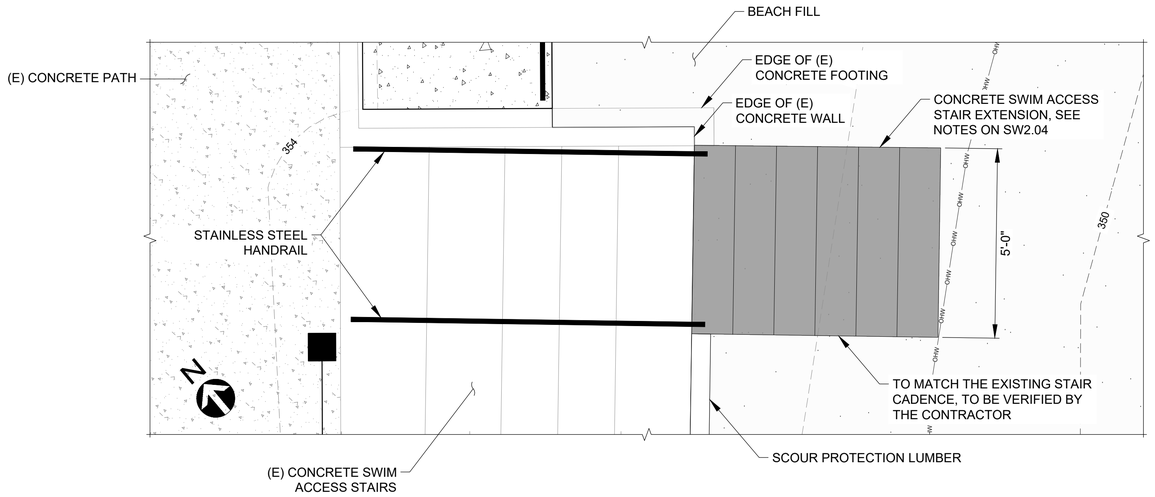
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Title

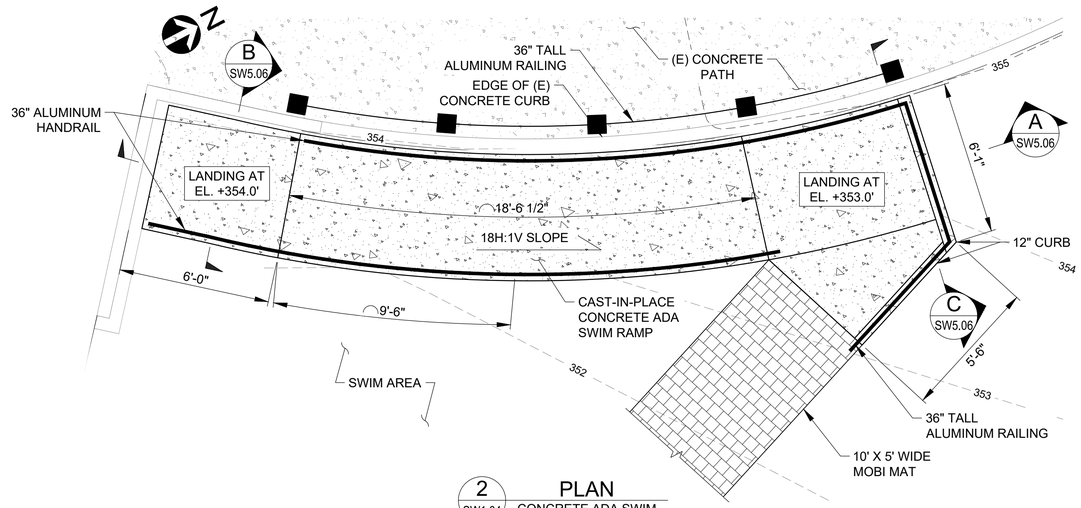
Angle Lake Park Waterfront Improvements

FISHING AREA PLAN AND SECTIONS

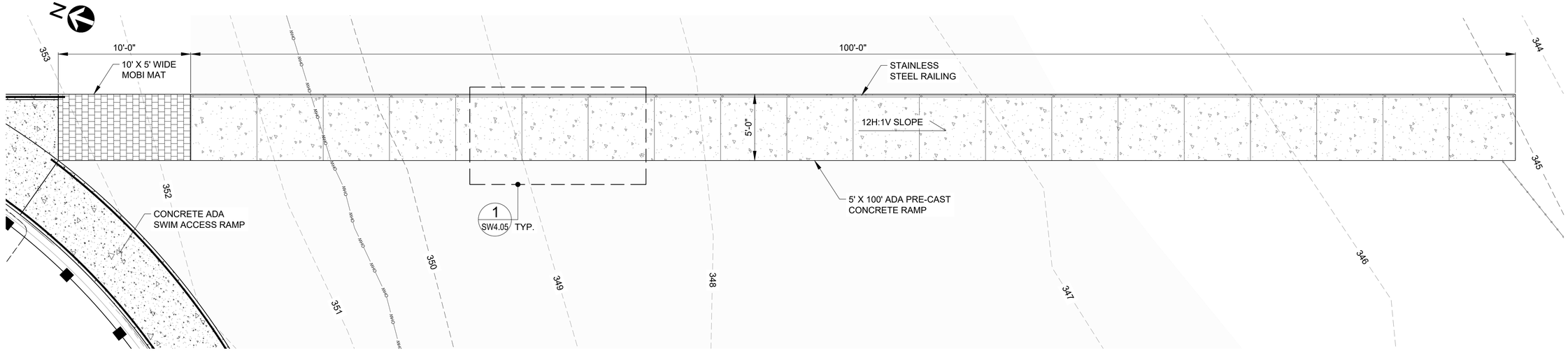
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1 SW1.04 PLAN
SWIM ACCESS STAIR EXTENSION
0 3 6
SCALE IN FEET



2 SW1.04 PLAN
CONCRETE ADA SWIM ACCESS RAMP
0 3 6
SCALE IN FEET



3 SW1.04 PLAN
ALUMINUM ADA SWIM ACCESS RAMP
0 4 8
SCALE IN FEET

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DOUGLAS E. EDGECOMB STATE OF WASHINGTON 45891 REGISTERED PROFESSIONAL ENGINEER
9/4/26

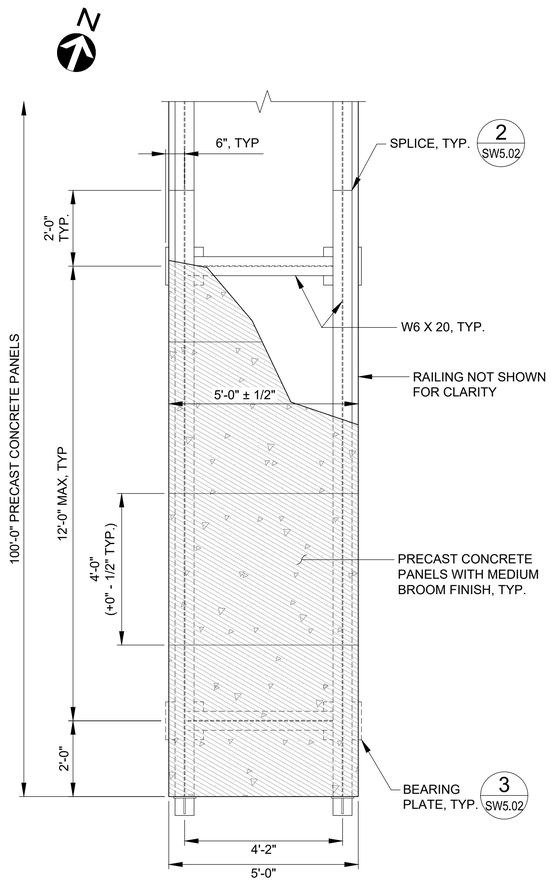
Project Number	B/O	Total
507106437	21	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	
Scale at ANSI D: As Shown	Status		Rev		Security
Drawing Number: SW4.04					

Title: Angle Lake Park Waterfront Improvements

SWIM ACCESS PLANS AND SECTIONS 1

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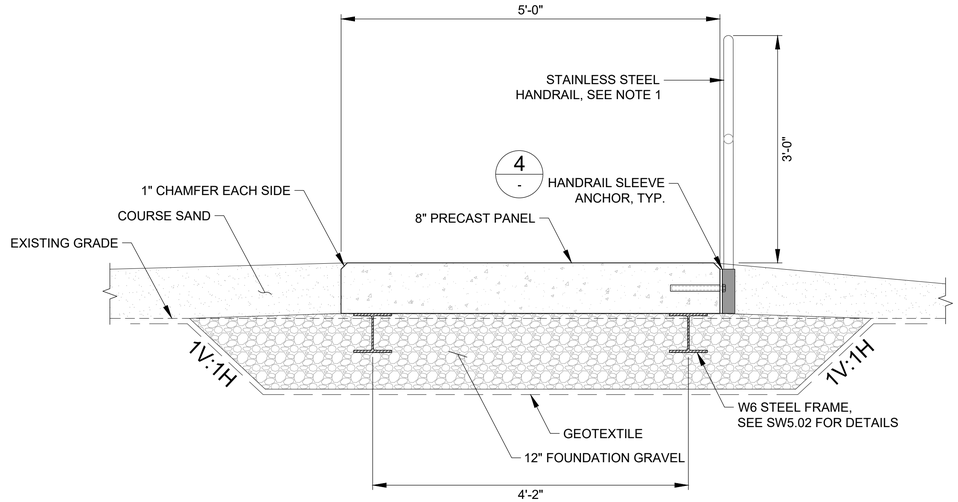


1 SW4.04 TYPICAL RAMP PLAN

ADA SWIM ACCESS RAMP

0 2 4

SCALE IN FEET

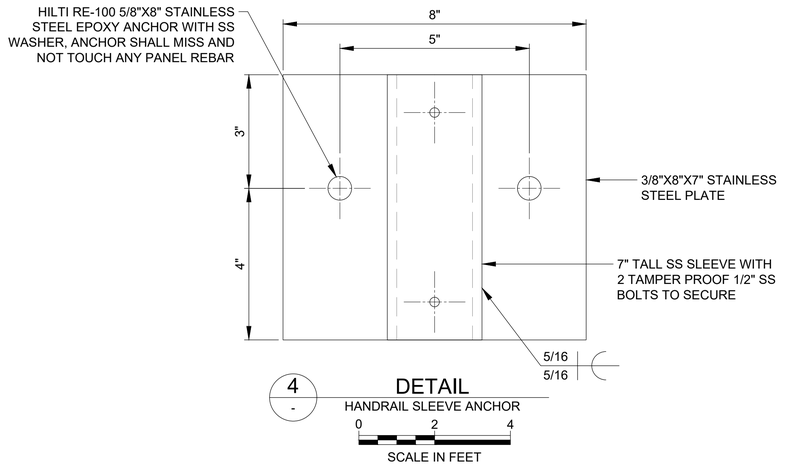


A - TYPICAL SECTION

ADA SWIM ACCESS RAMP

0 1 2

SCALE IN FEET



4 - DETAIL

HANDRAIL SLEEVE ANCHOR

0 2 4

SCALE IN FEET

NOTES

1. THE HANDRAIL ON THE PRECAST PANELS SHALL BE REMOVABLE AND SHALL BE SECURED TO THE CONCRETE PANEL WITH SS SLEEVE AND TAMPER PROOF SS BOLTS.

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0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGECOMB — STATE OF WASHINGTON — 48907 — REGISTERED PROFESSIONAL ENGINEER

9/4/26

Project Number	B/O	Total
507106437	22	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

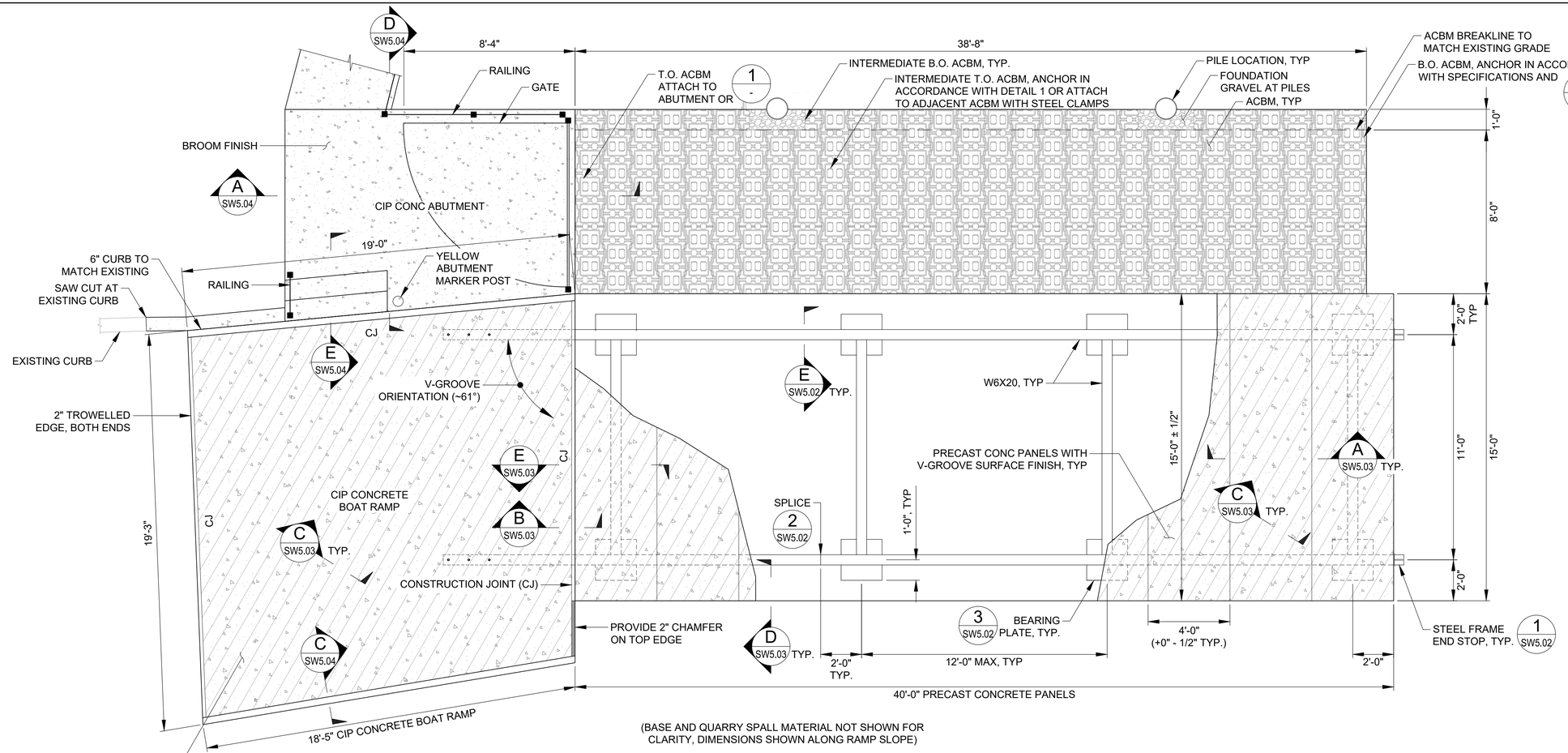
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Drawing Number: SW4.05

Title: Angle Lake Park Waterfront Improvements

SWIM ACCESS PLANS AND SECTIONS 2

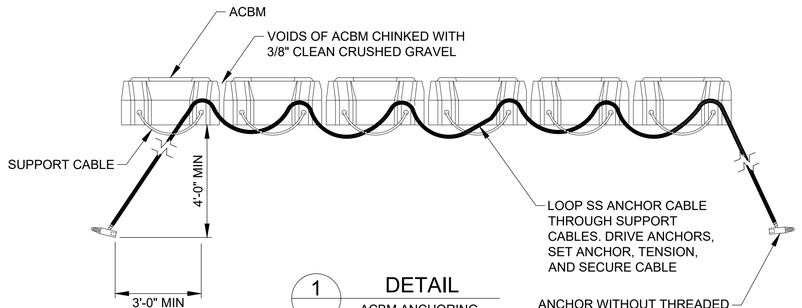
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(BASE AND QUARRY SPALL MATERIAL NOT SHOWN FOR CLARITY, DIMENSIONS SHOWN ALONG RAMP SLOPE)

BOAT RAMP STEEL GUIDE RAIL FRAME SYSTEM

0 5 10
SCALE IN FEET



1 - DETAIL
ACBM ANCHORING

0 1 2
SCALE IN FEET

LEGEND

CONCRETE

CONCRETE (V-GROOVE FINISH)

NOTES

1. FLOATS NOT SHOWN.
2. TERMINATE REBAR 3" FROM CONSTRUCTION JOINTS, UNLESS OTHERWISE SHOWN, ALL SIDES, TYP
3. FOUNDATION GRAVEL BASE IS COMPOSED OF 2 PRODUCTS EACH WITH 6" THICKNESS WITHIN AREAS OF STEEL FRAME, SEE SPECIFICATIONS.
4. ABUTMENT MARKERS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.
5. PROVIDE DETAIL FOR ACBM ATTACHMENT TO ABUTMENT IF IT IS THE CHOSEN CONNECTION TYPE.
6. PAINT RAILING ON BOAT RAMP SIDE YELLOW.

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Client: CITY OF SEATAC EST. 1990

Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGE, STATE OF WASHINGTON, 45577, REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	23	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

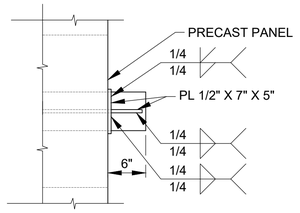
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As Shown			

Drawing Number: SW5.01

Title: Angle Lake Park Waterfront Improvements

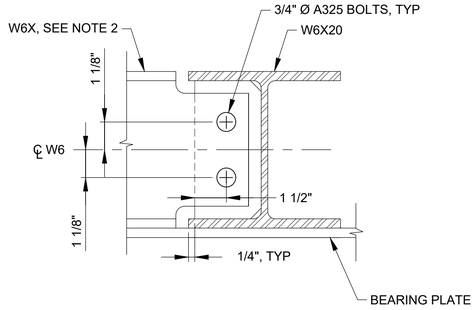
BOAT RAMP DETAILS

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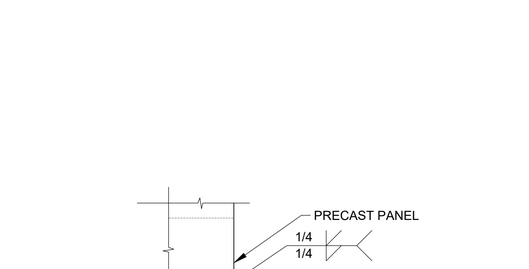
1 SW5.01 **DETAIL**
END STOP
(2 EACH SIDE OF RAMP)

0 1 2
SCALE IN FEET



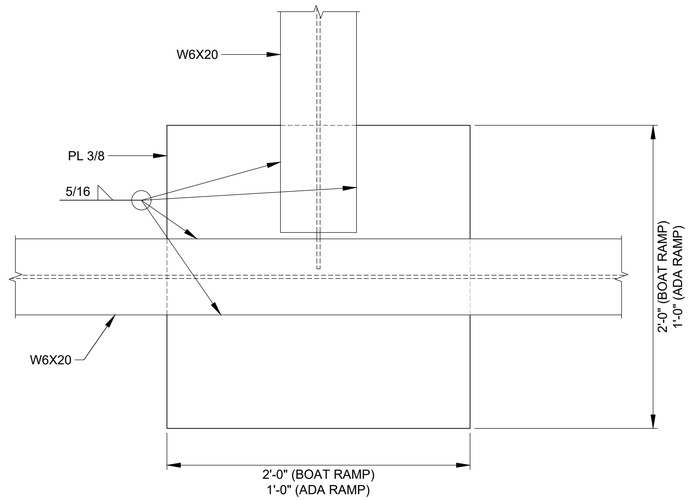
E SW5.01 **SECTION**

0 3 6
SCALE IN INCHES



2 SW5.01 **DETAIL**
W6 SPLICE

0 3 6
SCALE IN INCHES



3 SW5.01 **DETAIL**
BEARING PLATE

0 6 12
SCALE IN INCHES

NOTES

1. CONTRACTOR TO DETERMINE SPLICE LOCATIONS. SPLICE ON PLAN IS NOT THE ONLY LOCATION SPLICES SHALL BE ALLOWED. CONTRACTOR TO SHOW ALL W6 SPLICE LOCATIONS ON SHOP DRAWINGS, STAGGER SPLICES.
2. THE CONTRACTOR MAY PROPOSE A W5 BEAM TO BE USED AS A CROSS BRACE BEAMS INSTEAD OF THE W6 BUT IS RESPONSIBLE FOR MODIFYING THE EXISTING DETAILS FOR PROPER FIT UP AND CONNECTION.

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0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGECOMB STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	24	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	
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Drawing Number: SW5.02					

Title
Angle Lake Park
Waterfront Improvements

BOAT RAMP AND ADA
RAMP FRAME DETAILS

SHEET NOTES:

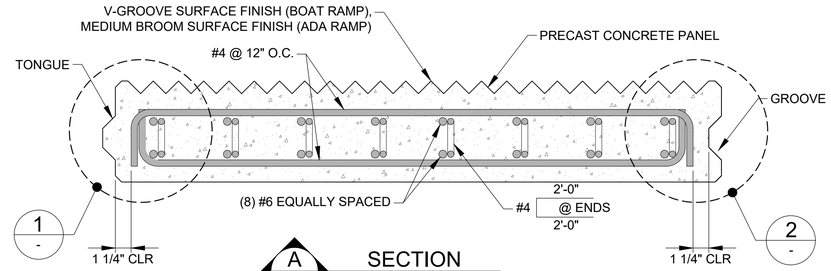
1. PANEL FABRICATOR TO VERIFY THAT V-GROOVE SURFACE FINISH WILL BE CONTINUOUS BETWEEN PRECAST PANELS, PROVIDED PANELS ARE PROPERLY ALIGNED IN THE FIELD. MODIFY GROOVE ANGLE FROM THAT SHOWN IF REQUIRED, SUBJECT TO OWNER APPROVAL. MEDIUM BROOM SURFACE FINISH FOR ADA RAMP PANELS. ADA RAMP PANELS SHALL HAVE 1" CHAMFER ON EACH SIDE NOT AT THE TONGUE AND GROOVE SIDES.
2. PRECAST CONCRETE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF LIFTING POINTS. FABRICATOR TO COORDINATE WITH INSTALLATION CONTRACTOR PRIOR TO FABRICATION. LIFTING POINTS SHALL USE GALVANIZED STEEL.
3. CONTRACTOR DESIGNED LIFTING POINTS SHALL BE LOCATED WITHIN THE V-GROOVE FINISHED SURFACE.

PRECAST PANEL RAMP NOTES:

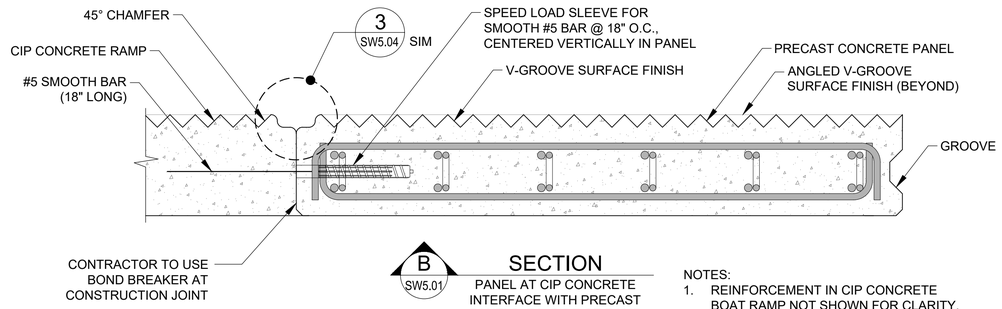
1. EXCAVATED SUB BASE SHALL BE GRADED PRIOR TO GEOTEXTILE FABRIC AND FOUNDATION GRAVEL PLACEMENT.
2. FOUNDATION GRAVEL BASE IS COMPOSED OF TWO 6 INCH THICK LIFTS.

CONSTRUCTION SEQUENCE NOTES:

1. EXCAVATE, GRADE, AND PREPARE SUB BASE.
2. INSTALL GEOTEXTILE FABRIC.
3. PLACE FOUNDATION GRAVEL (WSDOT CLASS A) AND COMPACT.
4. INSTALL BOAT RAMP AND ADA RAMP STEEL FRAME.
5. PLACE FOUNDATION GRAVEL TO FINISHED ELEVATION AND GRADE FOUNDATION GRAVEL SO AS TO ALLOW THE CONCRETE PANELS TO SLIDE ON THE SURFACE OF THE STEEL FRAME.
6. INSTALL PRECAST PANELS. THE PRECAST PANELS SHALL BE SET ON THE STEEL FRAME AND SLID DOWN. THE FIRST PANEL SHALL BE SLID DOWN UNTIL FULL CONTACT WITH END STOPS. SUBSEQUENT PANELS SHALL BE SLID DOWN THE FRAME AND ALIGNED SUCH THAT THE TONGUE AND GROOVE JOINT IS POSITIVELY LOCKED INTO PLACE. THE PANELS SHALL BE PLACED SUCH THAT THE V-GROOVE SURFACE FINISH PATTERN IS ALIGNED BETWEEN ADJACENT PANELS. PANELS OFFSET MORE THAN 1/4" FROM THE AVERAGE PANEL EDGE OR ADJACENT PANEL EDGES SHALL BE BROUGHT BACK INTO CONFORMANCE PRIOR TO CASTING THE CAST-IN-PLACE CLOSURE POUR. USE OF DIVERS WILL BE REQUIRED.
7. ALIGN CENTER OF ACBM WITH CENTER OF ABUTMENT. TOP SURFACE OF ACBM SHALL MATCH ADJACENT FINISHED RAMP SURFACE UNLESS NOTED OTHERWISE.
8. DRIVE ANCHORS THROUGH ACBM. SET AND TENSION ANCHORS THEN SECURE CABLES. SEE DETAILS FOR ACBM INSIDE AND END INSTALLATION.
9. FILL VOIDS OF ACBM WITH 3/8" CLEAN CRUSHED GRAVEL.

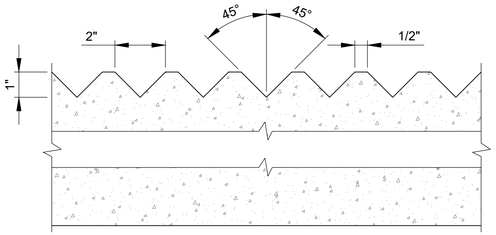


A SW5.01 SECTION
TYPICAL PANEL (BOAT RAMP AND ADA RAMP)
0 6 12
SCALE IN INCHES

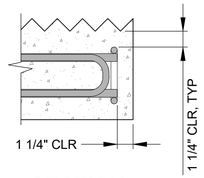


B SW5.01 SECTION
PANEL AT CIP CONCRETE INTERFACE WITH PRECAST PANELS, EA. SIDE OF RAMP
0 6 12
SCALE IN INCHES

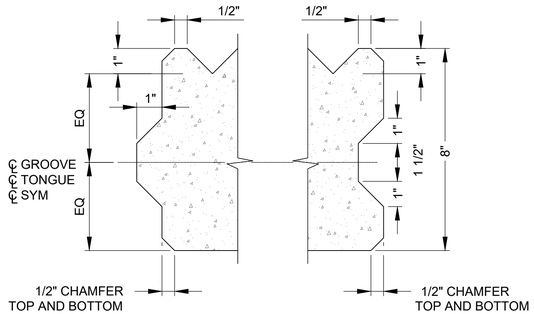
NOTES:
1. REINFORCEMENT IN CIP CONCRETE BOAT RAMP NOT SHOWN FOR CLARITY.
2. REFERENCE DETAIL E THIS SHEET FOR MORE INFORMATION.



C SW5.01 SECTION
V-GROOVE
0 3 6
SCALE IN INCHES

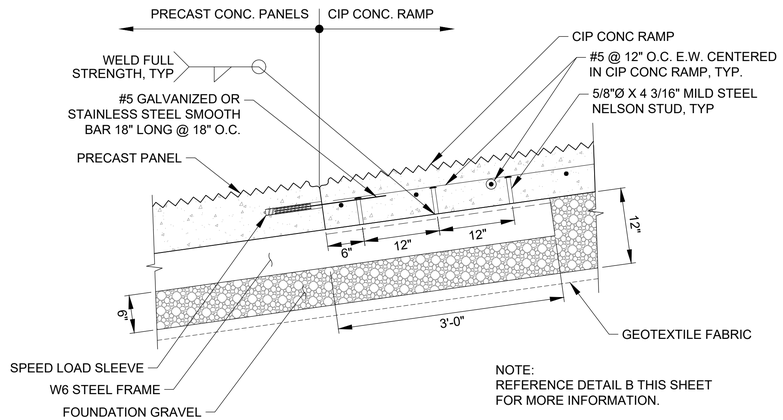


D SW5.01 SECTION
PRECAST CONCRETE RAMP PANEL
0 3 6
SCALE IN INCHES



NOTE:
TONGUE TO FIT WITHIN GROOVE WITH 1/8" TOLERANCE ON ALL SIDES

1 - DETAIL TONGUE
2 - DETAIL GROOVE
0 3 6
SCALE IN INCHES



NOTE:
REFERENCE DETAIL B THIS SHEET FOR MORE INFORMATION.

E SW5.01 SECTION
CONCRETE CLOSURE POUR AND STEEL FRAME EXTENSION
0 12 24
SCALE IN INCHES

LEGEND

CONCRETE

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Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGECOMB — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 9/4/26

Project Number	B/O	Total
507106437	25	33

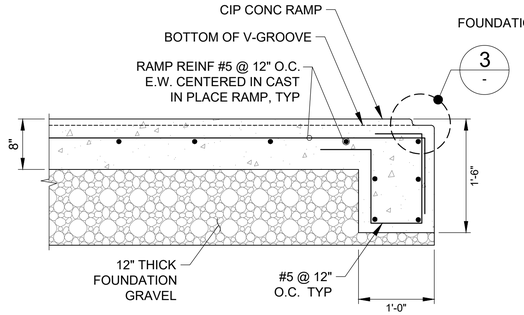
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Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	
Scale at ANSI D: As Shown	Status		Rev		Security

Drawing Number: SW5.03

Title: Angle Lake Park Waterfront Improvements

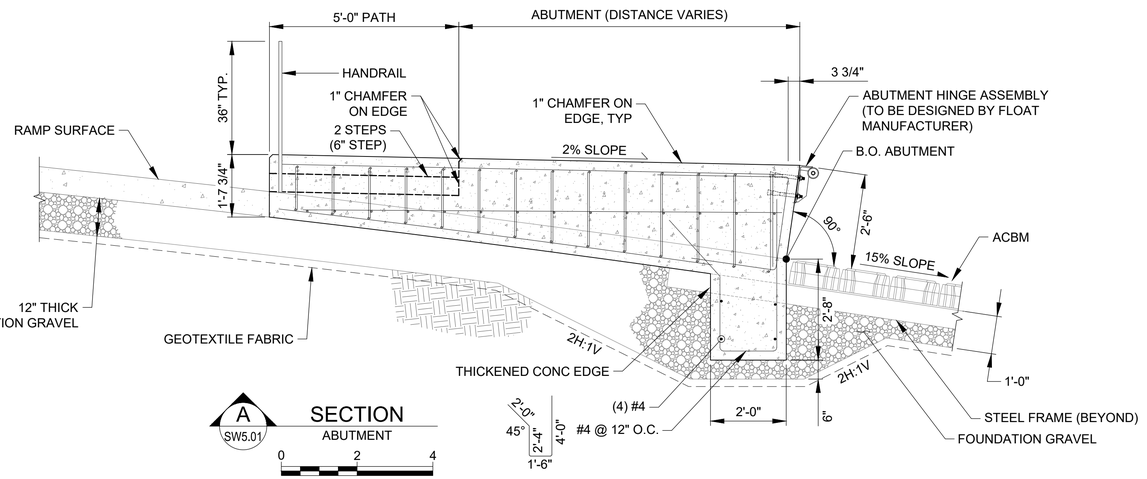
BOAT RAMP PRECAST PANEL DETAILS

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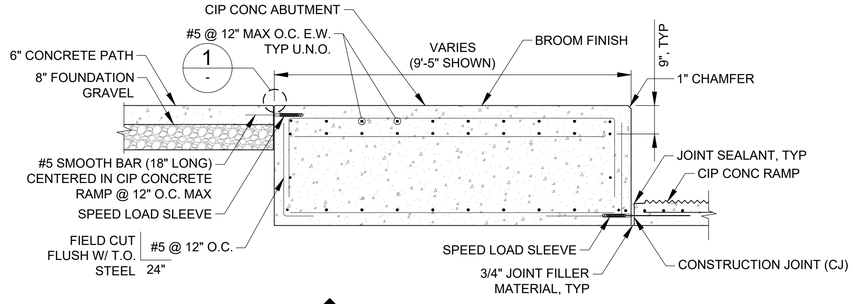


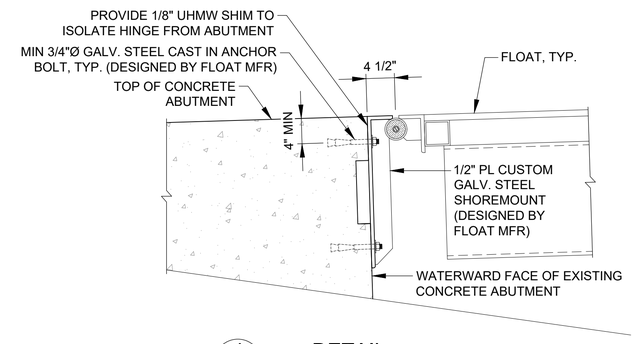
NOTE:
SURFACE FINISH NOT SHOWN FOR CLARITY

C SW5.01 SECTION
CONCRETE EDGE
0 1 2
SCALE IN FEET



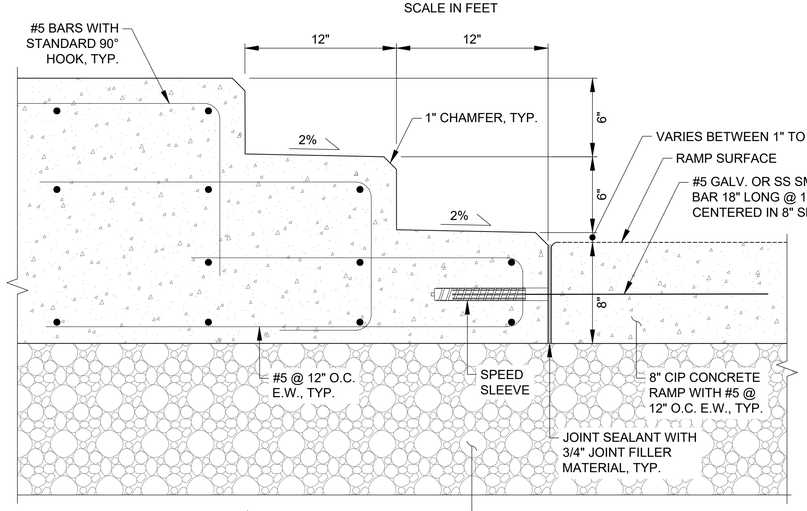
A SW5.01 SECTION
ABUTMENT
0 2 4
SCALE IN FEET



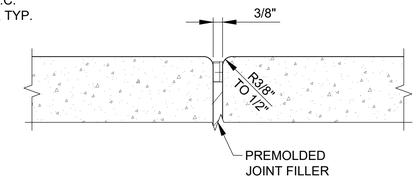


D SW5.01 SECTION
ABUTMENT
0 2 4
SCALE IN FEET

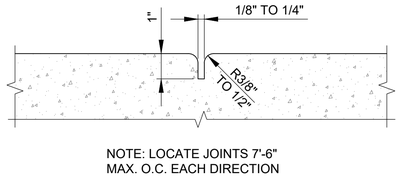
4 - DETAIL
ABUTMENT CONNECTION
0 1 2
SCALE IN FEET



E SW5.01 SECTION
ABUTMENT STAIRS
0 2 4
SCALE IN FEET

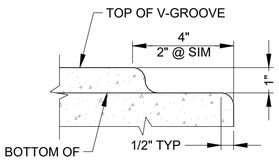


1 - DETAIL
EXPANSION JOINT
0 3 6
SCALE IN INCHES



NOTE: LOCATE JOINTS 7'-6" MAX. O.C. EACH DIRECTION

2 SW1.02 DETAIL
CONTROL JOINT
0 3 6
SCALE IN INCHES



NOTE: AT SIM CONDITION, TROWELLED EDGE OCCURS AT BOTH SIDES OF A CONTROL JOINT.

3 SW5.01 DETAIL
V-GROOVE TROWELLED EDGE
0 3 6
SCALE IN INCHES

NOTES

1. ALL CONCRETE EDGES AROUND STAIRS AND THE ABUTMENT SHALL BE CHAMFERED 1".
2. ABUTMENT SHALL HAVE REINFORCING AT EVERY FACE 8" ON CENTER UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO DESIGN HANDRAIL AND ATTACHMENT TO CONCRETE.
4. PRECAST CONCRETE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF LIFTING POINTS. FABRICATOR TO COORDINATE WITH INSTALLATION CONTRACTOR PRIOR TO FABRICATION. LIFTING POINTS SHALL USE GALVANIZED STEEL.

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DOUGLAS EDGE, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	26	33

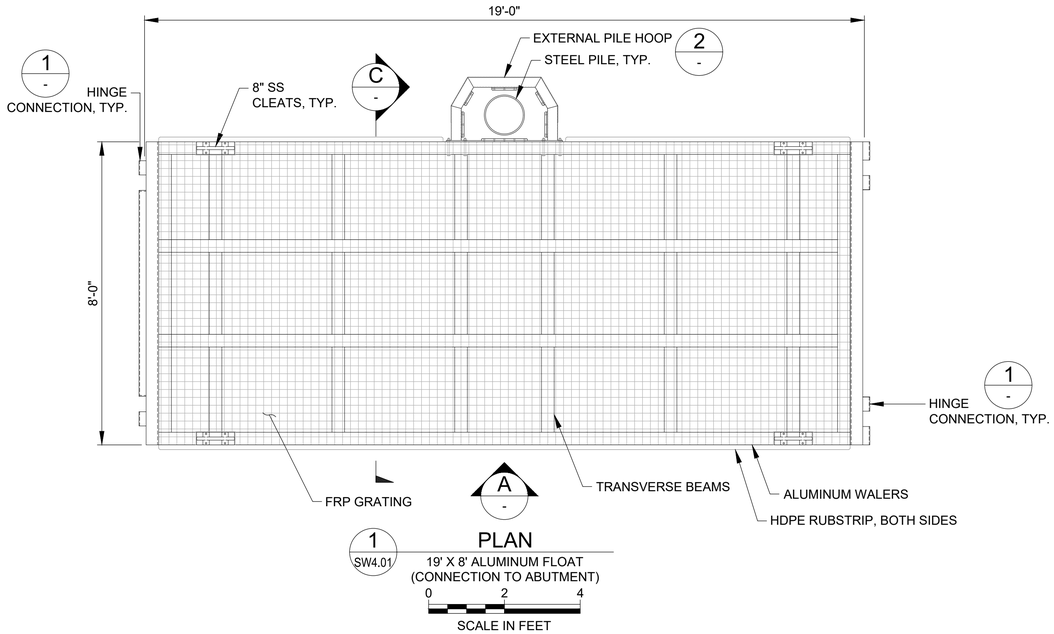
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Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

Scale at ANSI D: As Shown
Status:
Rev:
Security:
Drawing Number: SW5.04

Title
Angle Lake Park
Waterfront Improvements

ABUTMENT DETAILS

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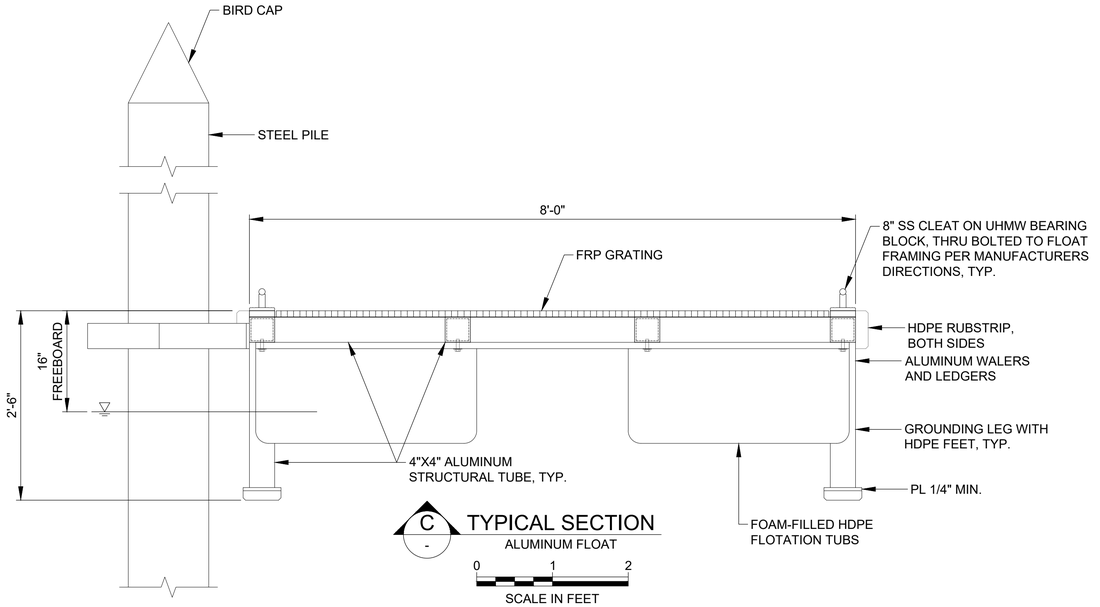


1 SW4.01 **PLAN**

19' X 8' ALUMINUM FLOAT
(CONNECTION TO ABUTMENT)

0 2 4

SCALE IN FEET

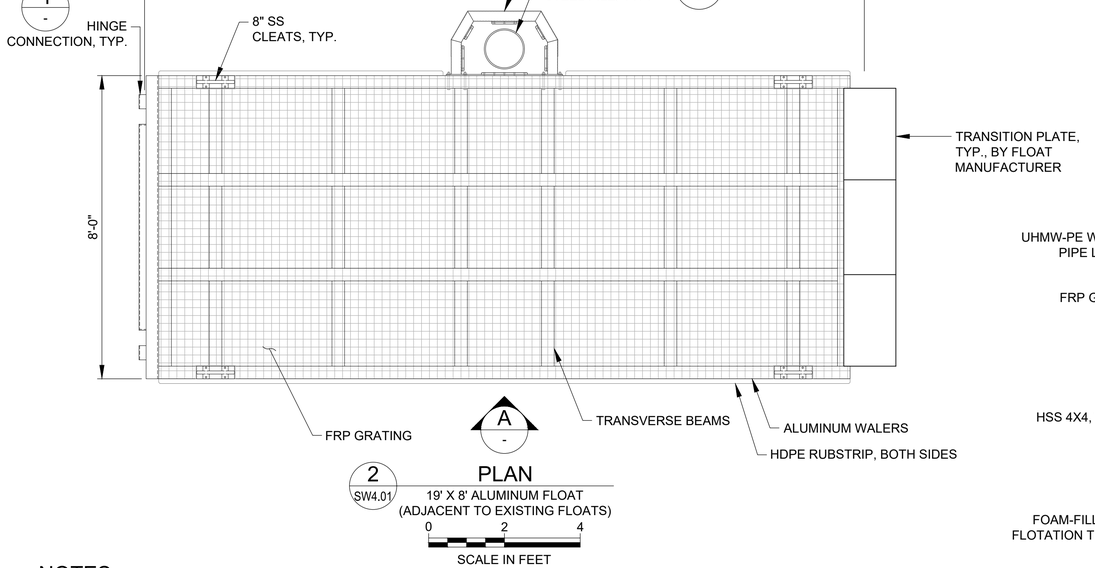


C - **TYPICAL SECTION**

ALUMINUM FLOAT

0 1 2

SCALE IN FEET

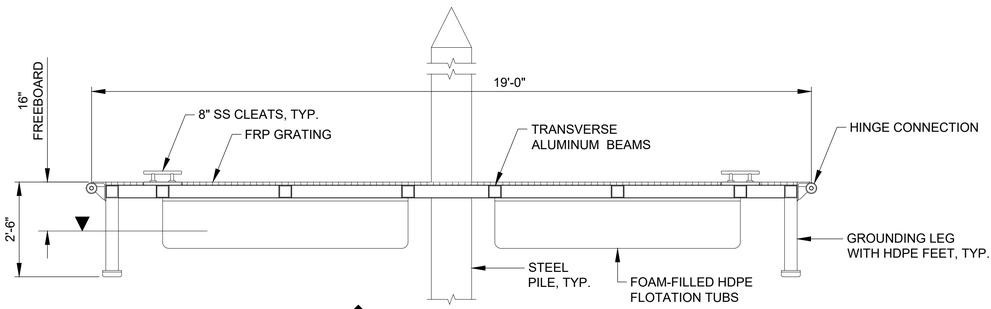


2 SW4.01 **PLAN**

19' X 8' ALUMINUM FLOAT
(ADJACENT TO EXISTING FLOATS)

0 2 4

SCALE IN FEET

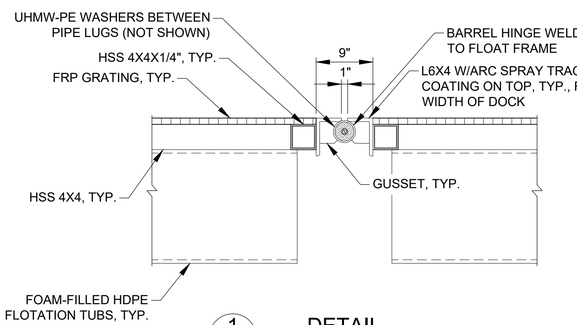


A - **ELEVATION**

19' X 6' ALUMINUM FLOAT

0 2 4

SCALE IN FEET

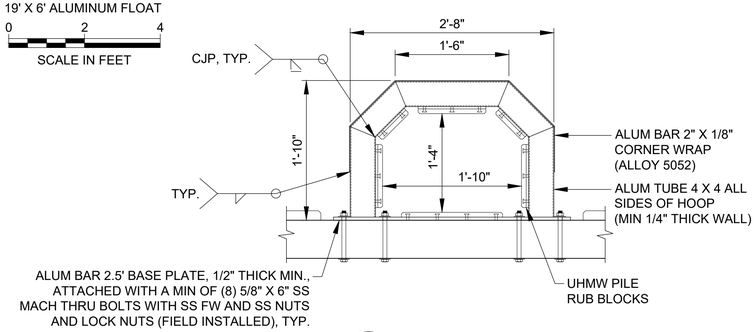


1 - **DETAIL**

FLOAT HINGE CONNECTION

0 1 2

SCALE IN FEET



2 - **DETAIL**

EXTERNAL PILE HOOP

0 1 2

SCALE IN FEET

NOTES

1. FINAL FLOAT DESIGN AND CALCULATIONS TO BE PERFORMED BY THE CONTRACTOR.
2. FLOAT FRAMING TO BE FABRICATED FROM ALUMINUM HSS 4X4, 1/4" MINIMUM WALL THICKNESS U.N.O.

FOR BID

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Client: CITY OF SEATAC EST. 1990

Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS E. EDGECOMB — STATE OF WASHINGTON — 48577 — REGISTERED PROFESSIONAL ENGINEER

9/4/26

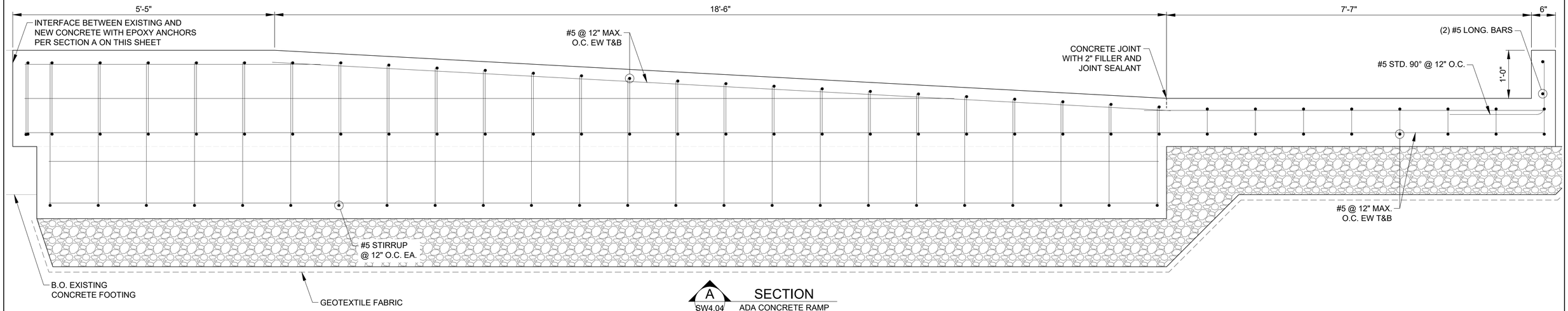
Project Number	B/O	Total
507106437	27	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	
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Drawing Number: SW5.05

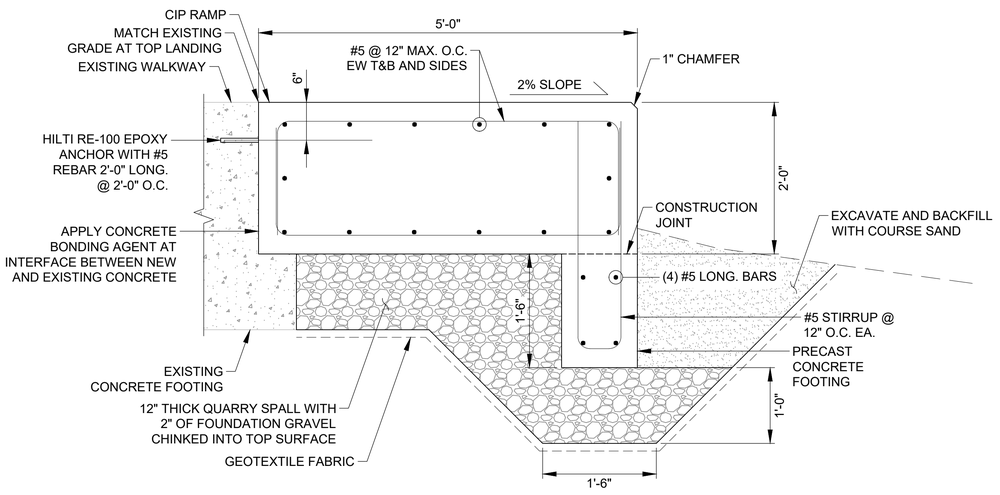
Title: Angle Lake Park Waterfront Improvements

FLOAT DETAILS



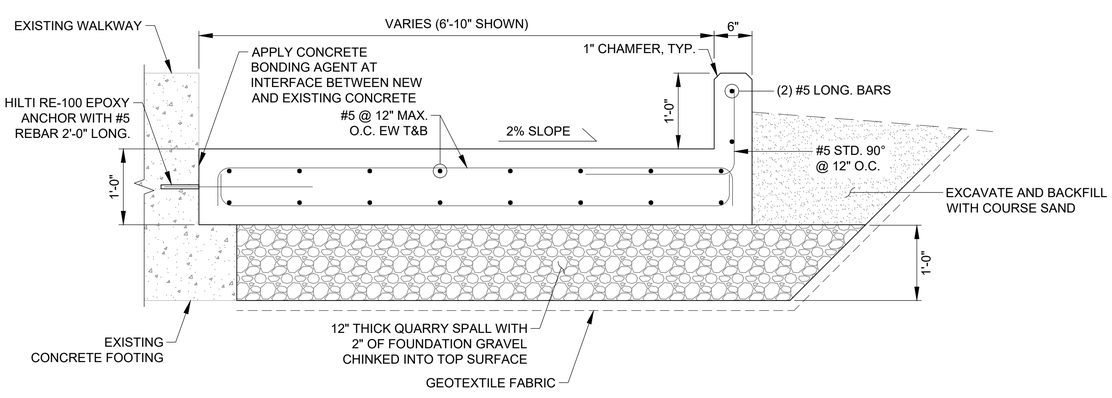
A SW4.04 SECTION
ADA CONCRETE RAMP

0 1 2
SCALE IN FEET



B SW4.04 SECTION
RAMP AT UPPER LANDING

0 1 2
SCALE IN FEET



C SW4.04 SECTION
RAMP AT LOWER LANDING

0 1 2
SCALE IN FEET

FOR BID

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Client: CITY OF SEATAC EST. 1990

Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS E. COLBY — STATE OF WASHINGTON — 45577 — REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	28	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

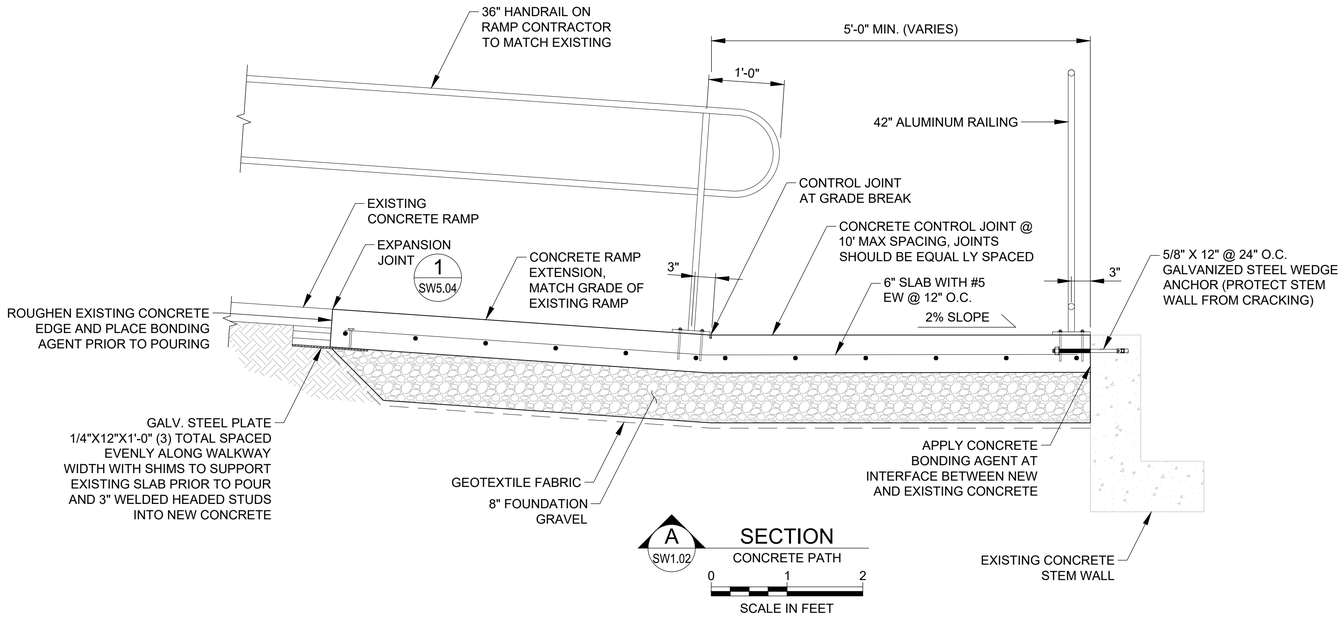
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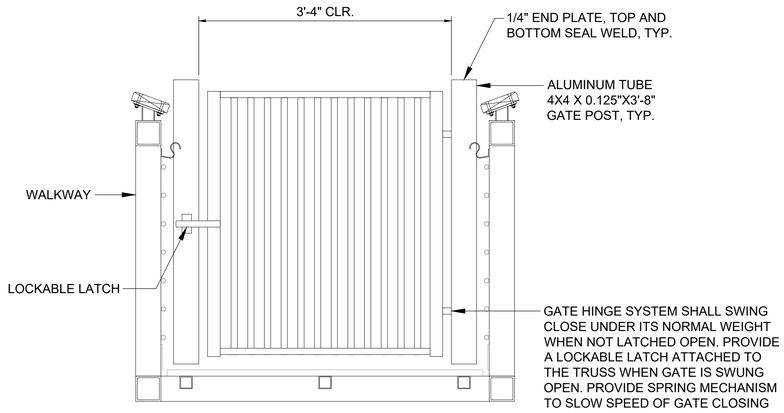
Title: Angle Lake Park Waterfront Improvements

CONCRETE ADA RAMP DETAILS

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A / SW1.02 SECTION
CONCRETE PATH
0 1 2
SCALE IN FEET



2 / SW4.04 DETAIL
GANGWAY WALKWAY GATE
0 1 2
SCALE IN FEET

NOTES

1. GATE SHALL OPEN TOWARD THE LIFEGUARD FLOAT AND LOCK TO ALUMINUM ADA RAMP FRAMING WHILE OPEN OR CLOSED.
2. HINGES SHALL BE INSTALLED ON EAST SIDE.
3. ALUMINUM FABRICATOR SHALL COORDINATE WITH GATE MANUFACTURER TO DETERMINE ACTUAL GATE WIDTH TO FIT CLEAR DISTANCE SHOWN.
4. GATE AND HARDWARE SHALL BE MILL FINISH.
5. GATE AND HARDWARE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. GATE SHALL BE INSTALLED PRIOR TO SHIPPING ALUMINUM SECTION TO SITE TO ENSURE FIT-UP. DETACH GATE DURING TRANSPORT.
7. SHIM AND SLOT HOLES AS NEEDED TO PROVIDE A FLUSH BEARING SURFACE BETWEEN CONNECTING STRUCTURAL ELEMENTS. CONTRACTOR SHALL COORDINATE WITH ALUMINUM FABRICATOR TO ENSURE RAMP SECTION CAN BE INSTALLED AS SHOWN.
8. PROVIDE SLIP CRITICAL CONNECTIONS FOR SLOTTED HOLES.
9. PROVIDE HANDRAIL ON THE GATE TO CREATE A CONTINUOUS GRIPPING SURFACE.

FOR BID

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Client: CITY OF SEATAC EST. 1990

Rev	Date	Drawn	Description	Ch'k'd	App'd
0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS EDGE, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER
9/4/26

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

Scale at ANSI D: As Shown | Status | Rev | Security

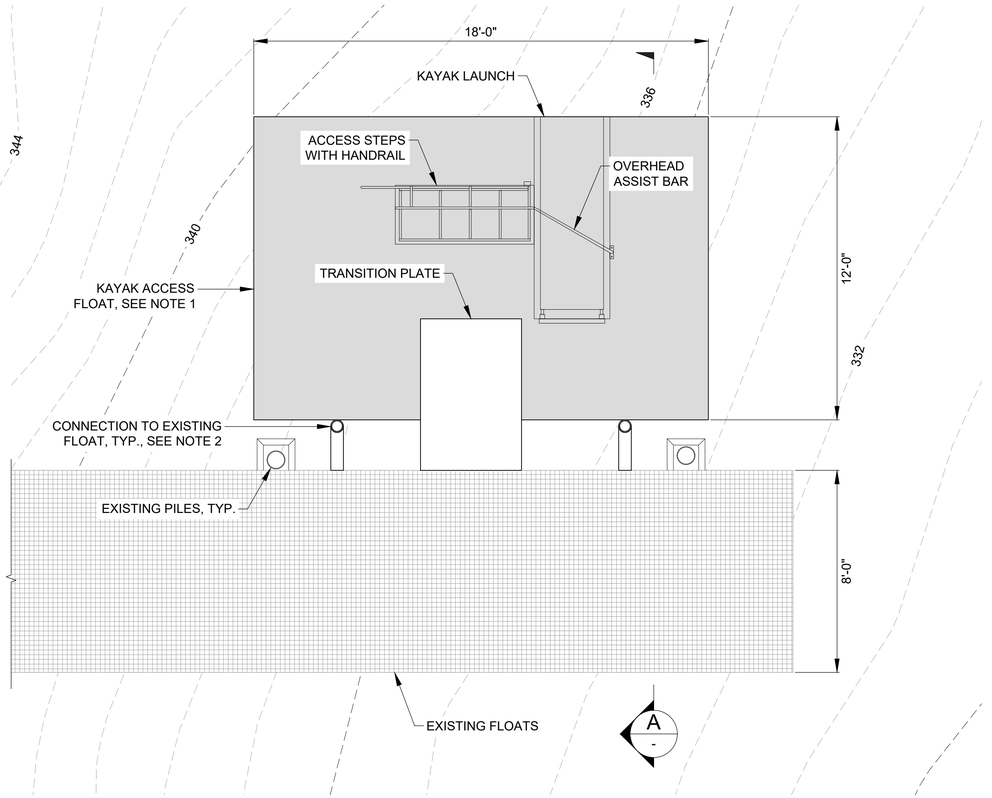
Project Number: 507106437 | B/O: 29 | Total: 33

Drawing Number: SW5.07

Title: Angle Lake Park Waterfront Improvements

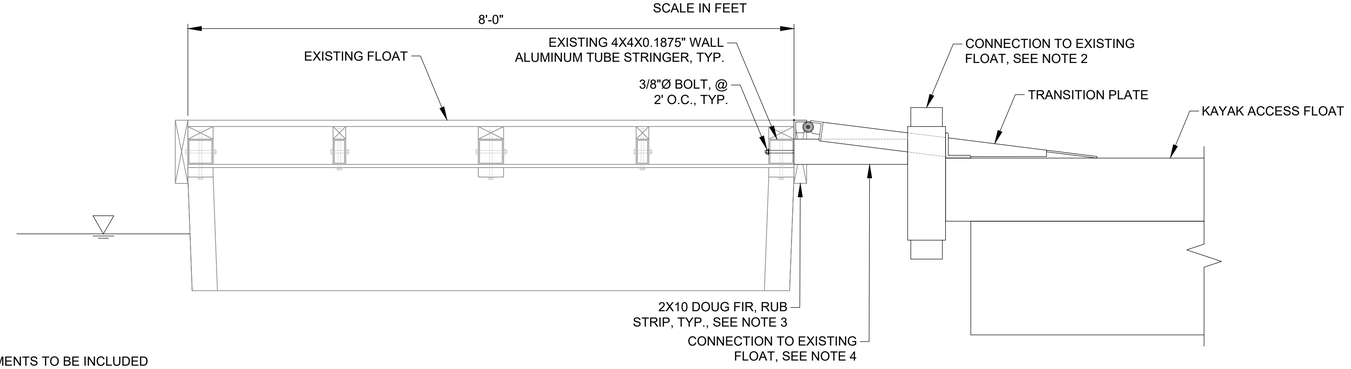
SWIM ACCESS DETAILS

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1 SW1.02 SW4.01 **PLAN**
KAYAK ACCESS FLOAT

0 3 6
SCALE IN FEET



A - **SECTION**
KAYAK ACCESS FLOAT
CONNECTION TO EXISTING FLOAT

0 1 2
SCALE IN FEET

NOTES

1. ELEMENTS SHOWN IN THIS DRAWING ARE REPRESENTATIVE OF THE ELEMENTS TO BE INCLUDED IN THE KAYAK ACCESS FLOAT DESIGN. CONTRACTOR SHALL PROVIDE FINAL DESIGN FOR KAYAK ACCESS FLOAT MEETING THE PERFORMANCE REQUIREMENTS STATED IN THE SPECIFICATIONS.
2. VERIFY EXISTING CONDITIONS AND EXISTING BOARDING FLOAT DESIGN PRIOR TO FINALIZING KAYAK ACCESS FLOAT DESIGN.
3. SELECTIVELY REMOVE EXISTING RUBSTRIP IN AREAS WHERE THE KAYAK ACCESS FLOAT CONNECTS TO THE EXISTING FLOAT FRAMING.
4. CONNECTION TO EXISTING FLOAT SHOULD NOT CAUSE EXISTING FLOAT TO LIST MORE THAN 2".

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DOUGLAS EDGECOMB — STATE OF WASHINGTON — 48511 — REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	30	33

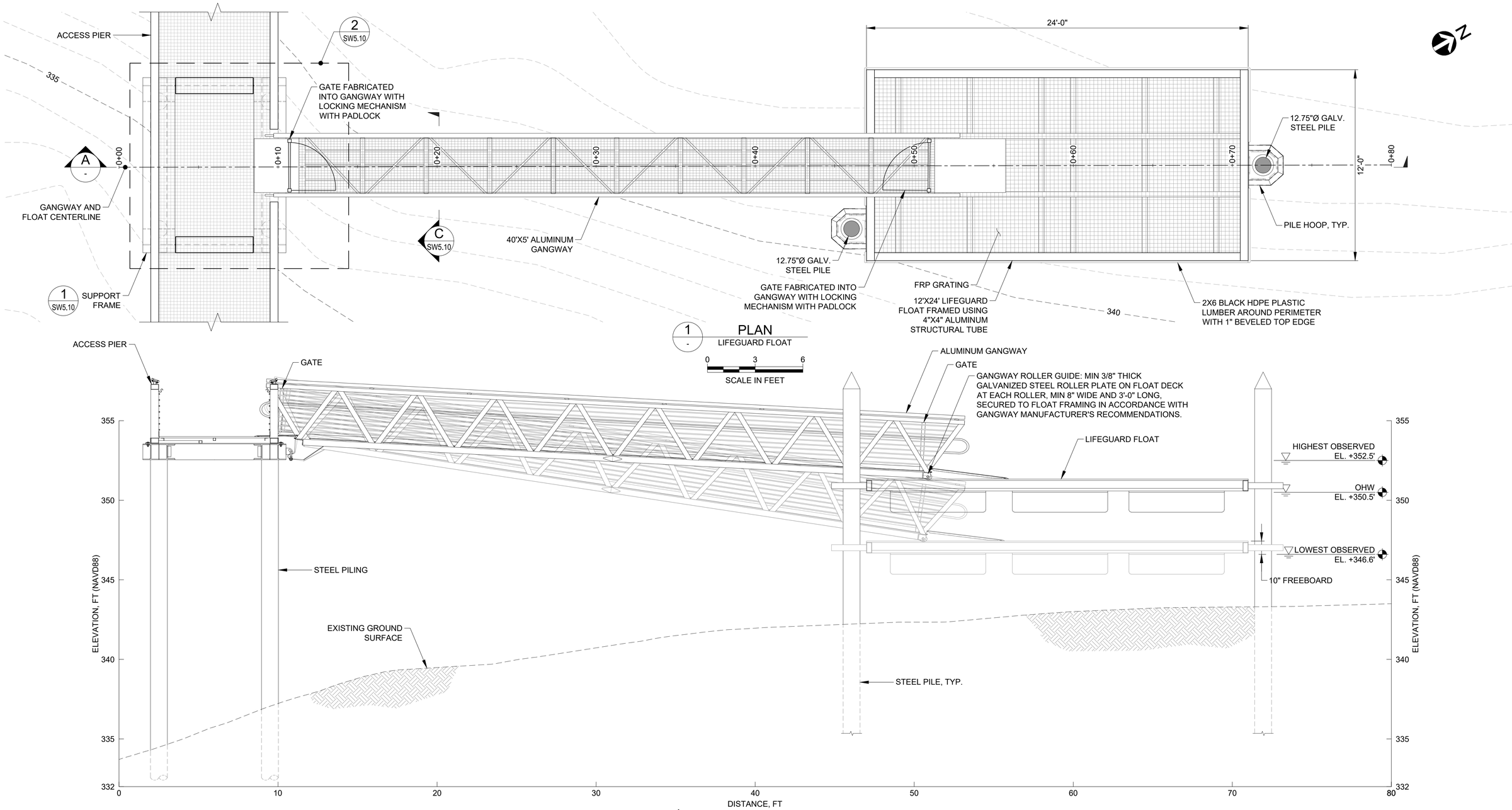
Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

Scale at ANSI D: As Shown | Status | Rev | Security

Drawing Number: SW5.08

Title: Angle Lake Park Waterfront Improvements

KAYAK FLOAT DETAILS



1 - PLAN
LIFEGUARD FLOAT

0 3 6
SCALE IN FEET

A - PROFILE
LIFEGUARD FLOAT

0 3 6
SCALE IN FEET

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DOUGLAS E. EDGECOMB — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER
9/4/26

Project Number	B/O	Total
507106437	31	33

Designed	L. Colby	9/4/26	Eng check	E. Edgecomb	9/4/26
Drawn	T. Morrison	9/4/26	Coordination	T. Morrison	9/4/26
Dwg check	S. McMahon	9/4/26	Approved	E. Edgecomb	

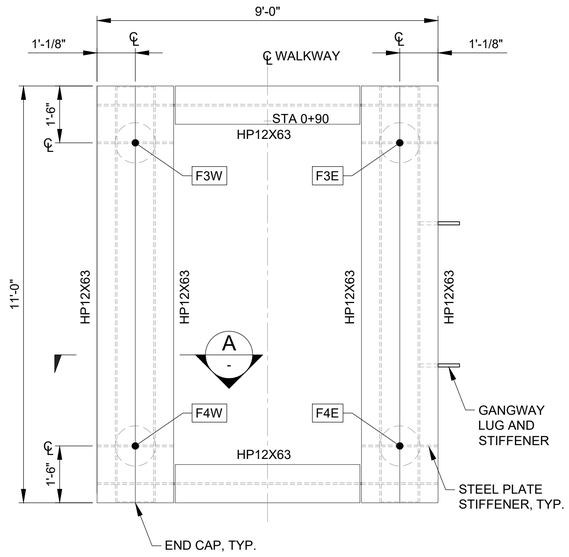
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1" = 3'			

Drawing Number: SW5.09

Title
Angle Lake Park
Waterfront Improvements

LIFEGUARD FLOAT

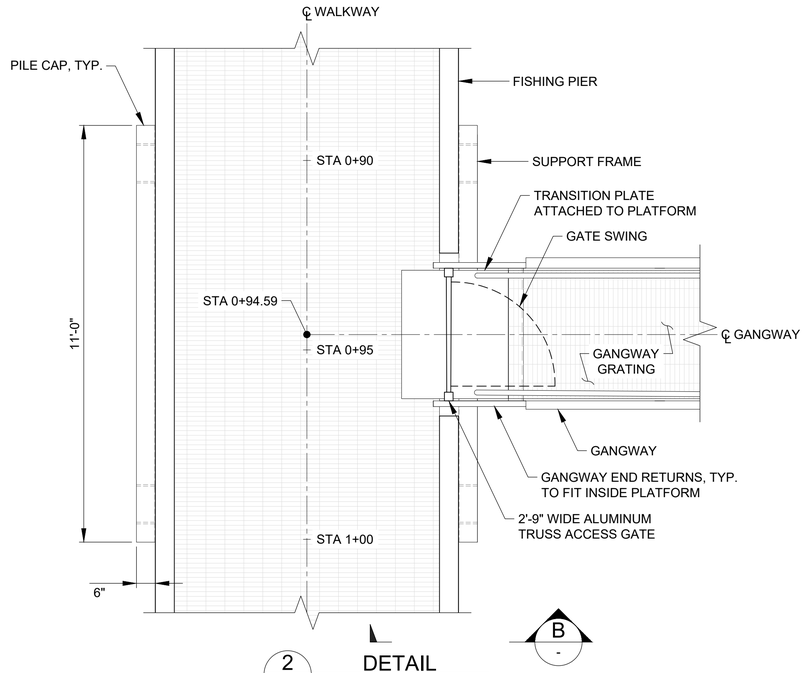
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1 SW5.09 **DETAIL** SUPPORT FRAME

0 2 4

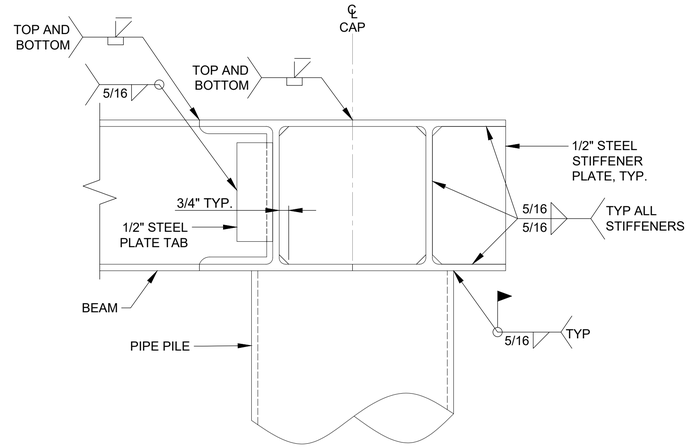
SCALE IN FEET



2 SW5.09 **DETAIL** PLATFORMS

0 2 4

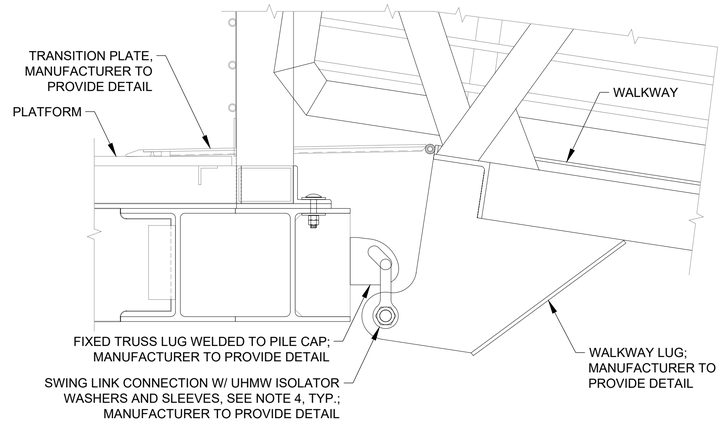
SCALE IN FEET



A - **ELEVATION** PLATFORM FRAME CONNECTION

0 6 12

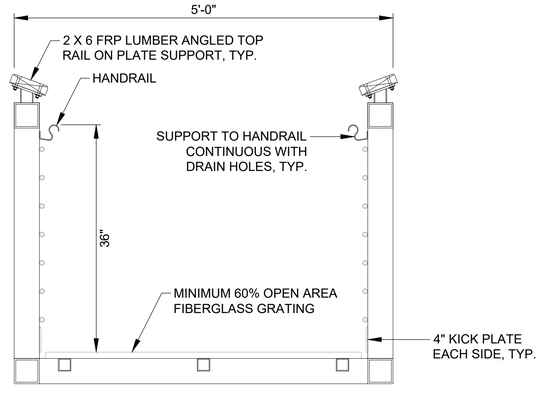
SCALE IN INCHES



B - **ELEVATION** SWINGLINK CONNECTION

0 8 16

SCALE IN INCHES



C SW5.09 **ELEVATION** GANGWAY

0 1 2

SCALE IN FEET

NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING WALKWAY AND GANGWAY CAN FUNCTION AT ALL WATER ELEVATIONS, AND THAT 4" MAX OPENING IS MAINTAINED.
2. STEEL FRAMING AND CONNECTIONS TO BE PREFABRICATED IN A SHOP UNLESS NOTED OTHERWISE.
3. THE ALUMINUM TRUSS ACCESS GATE SHALL BE FABRICATED TO BE FULL HEIGHT OF THE ADJACENT TRUSS. THE GATE SHALL BE ON A SPRING LOADED HINGE TO KEEP SHUT AND SHALL SWING INWARD. THE GATE SHALL ALSO INCLUDE A LATCH THAT CAN BE LOCKED.
4. PERFORMANCE CRITERIA:
   A. GANGWAY AND WALKWAYS ARE DESIGN-BUILD BY MANUFACTURER TO MEET TECHNICAL SPECIFICATIONS.
5. SEE SHEET SW1.01 FOR PILE SCHEDULE.
6. GANGWAY AND ITS CONNECTIONS SHALL BE DESIGNED TO ACCOMMODATE FULL RANGE OF MOTION BETWEEN THE DESIGN WATER LEVELS.
7. SWING LINK PIN SHALL BE STAINLESS STEEL AND SHALL BE BILLETED AS A SINGLE PIECE. WELDED HEADS ARE NOT ALLOWED ON THE PIN. TYPICAL ALL SWING LINK PINS.

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DOUGLAS EDGE — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 9/4/26

Project Number	B/O	Total
507106437	32	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

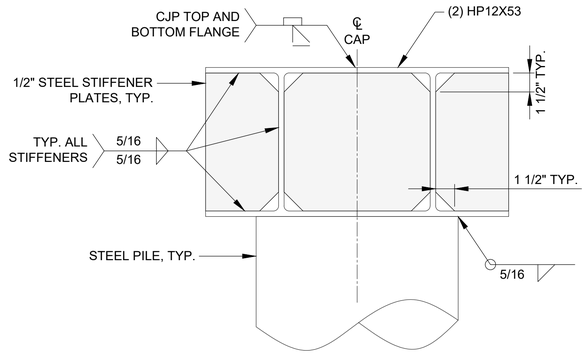
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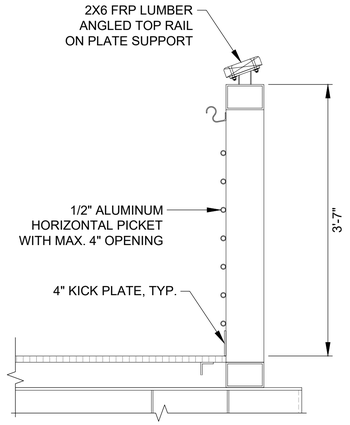
Title: Angle Lake Park Waterfront Improvements

PILE CAP DETAILS

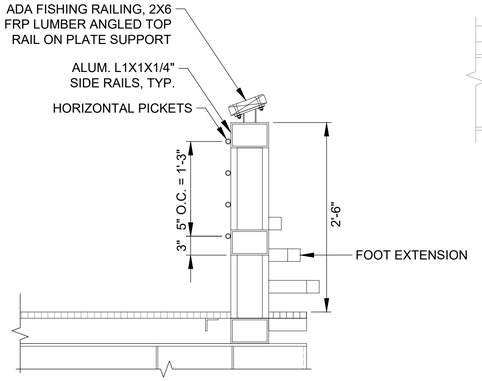
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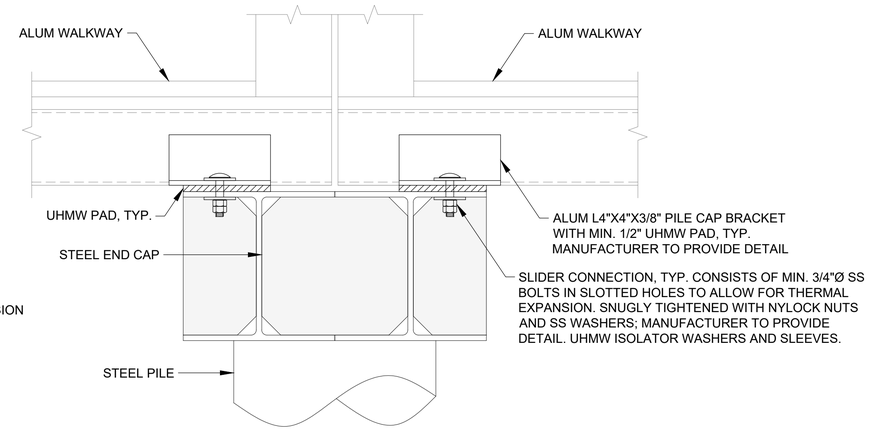
A - SECTION
PILE CAP
0 6 12
SCALE IN INCHES



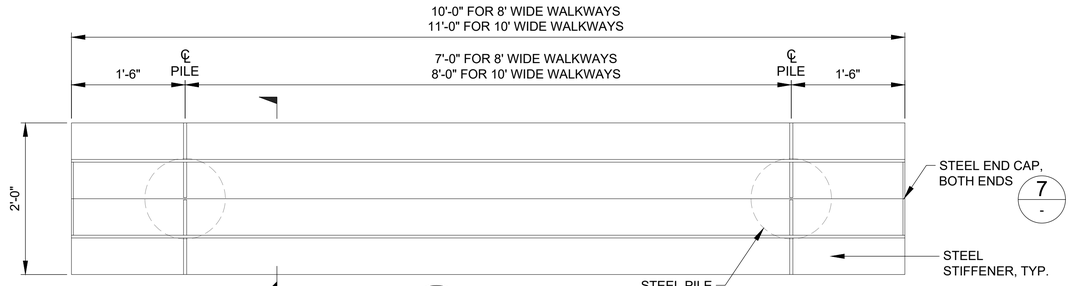
1 SW4.03 DETAIL
WALKWAY RAILING
0 1 2
SCALE IN FEET



2 SW4.03 DETAIL
FISHING RAILING
0 1 2
SCALE IN FEET

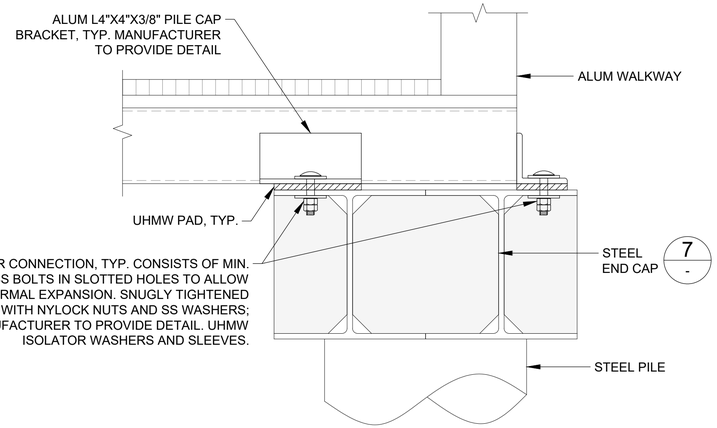


3 SW2.02 DETAIL
CENTER CAP CONNECTION
0 6 12
SCALE IN INCHES

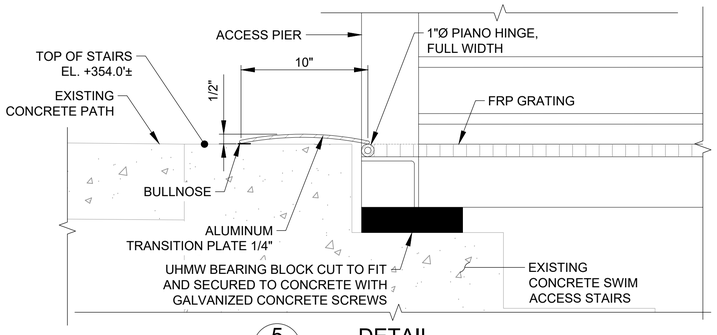


A -

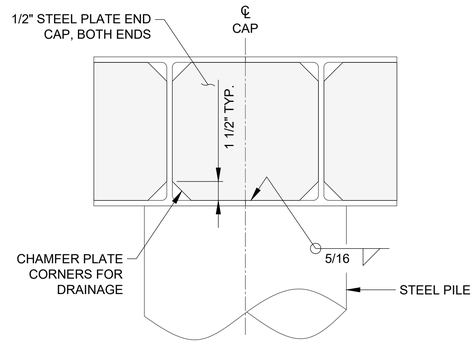
6 SW4.03 PLAN
PILE CAP
0 1 2
SCALE IN FEET



4 SW2.02 DETAIL
END CAP CONNECTION
0 6 12
SCALE IN INCHES



5 SW2.02 DETAIL
ACCESS PIER CONNECTION TO STAIRS
0 6 12
SCALE IN INCHES



7 - DETAIL
PILE CAP END
0 6 12
SCALE IN INCHES

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0	9/4/26	TM	FOR BID	LC	EE

DOUGLAS [illegible] STATE OF WASHINGTON 25881 REGISTERED PROFESSIONAL ENGINEER 9/4/26

Project Number	B/O	Total
507106437	33	33

Designed	L. Colby		Eng check	E. Edgecomb	
Drawn	T. Morrison		Coordination	T. Morrison	
Dwg check	S. McMahon		Approved	E. Edgecomb	

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Drawing Number: SW5.11

Title: Angle Lake Park Waterfront Improvements

FISHING PIER DETAILS

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