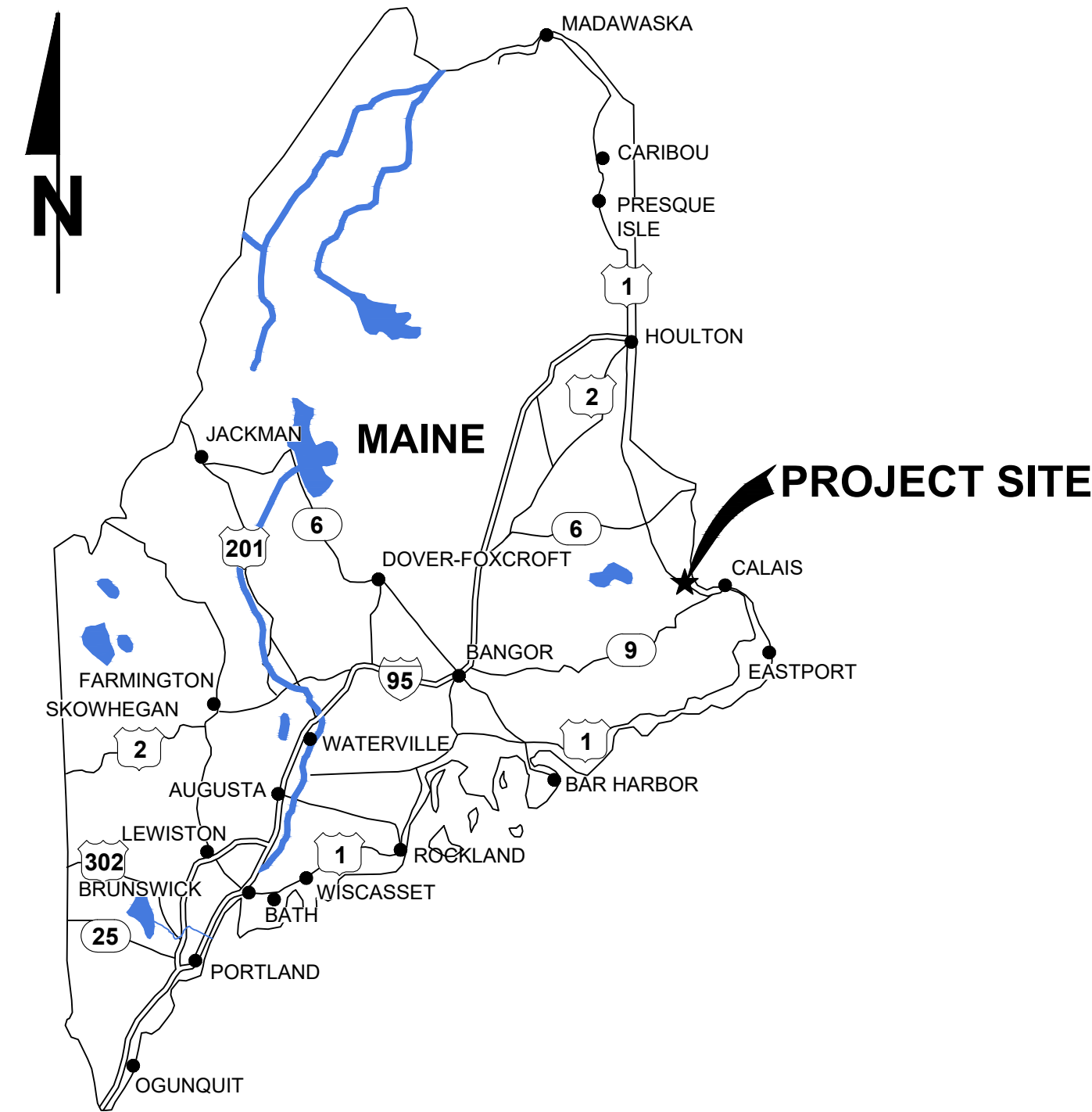
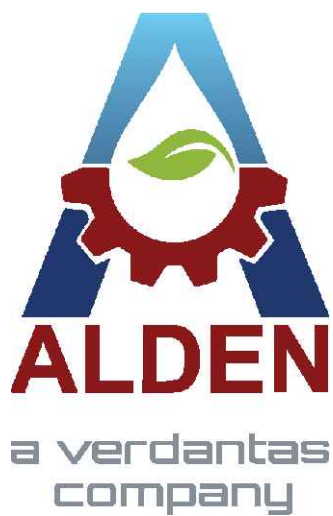


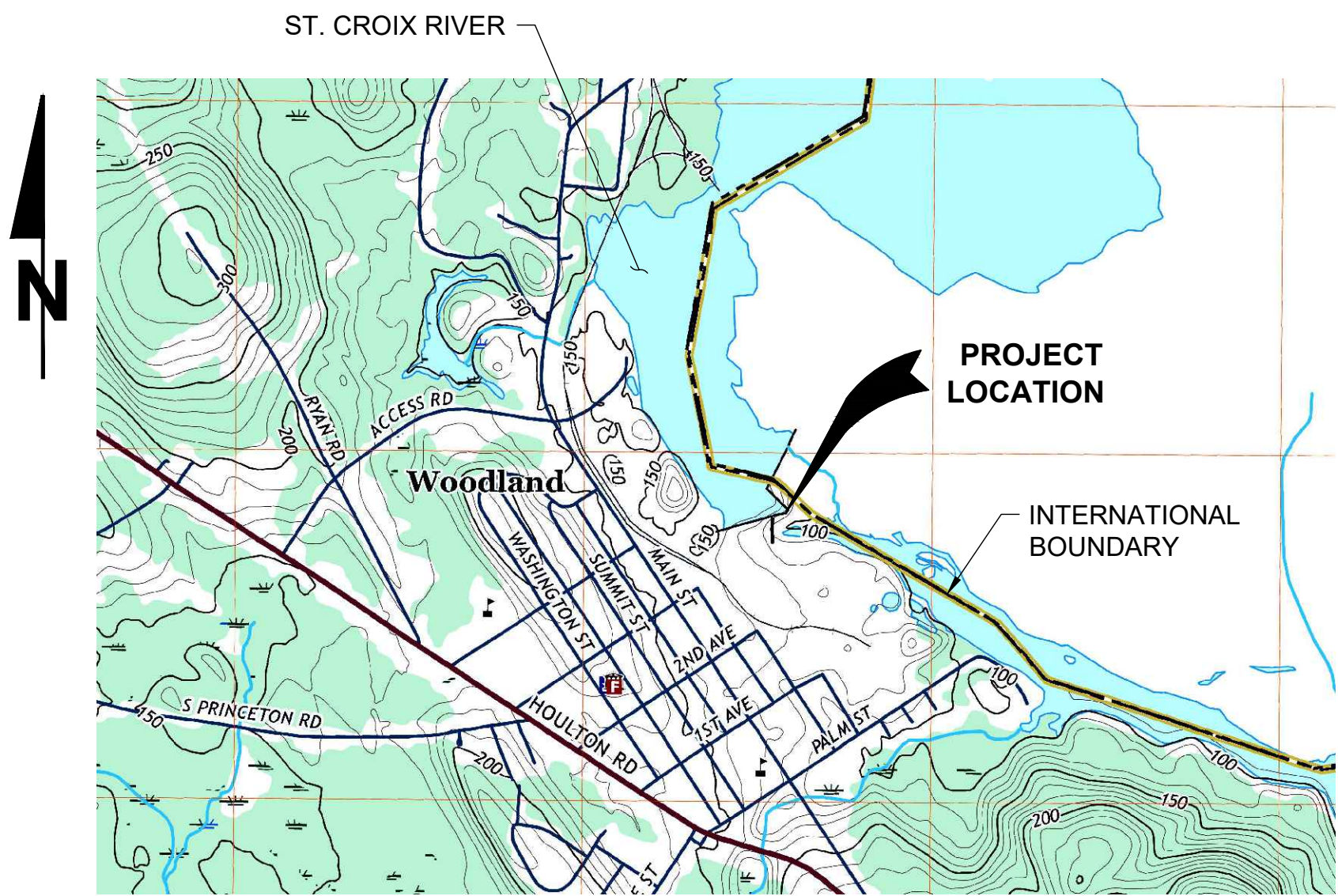
WOODLAND FISH LIFT PASSAGE DESIGN

PREPARED FOR
**MAINE DEPARTMENT OF
MARINE RESOURCES**

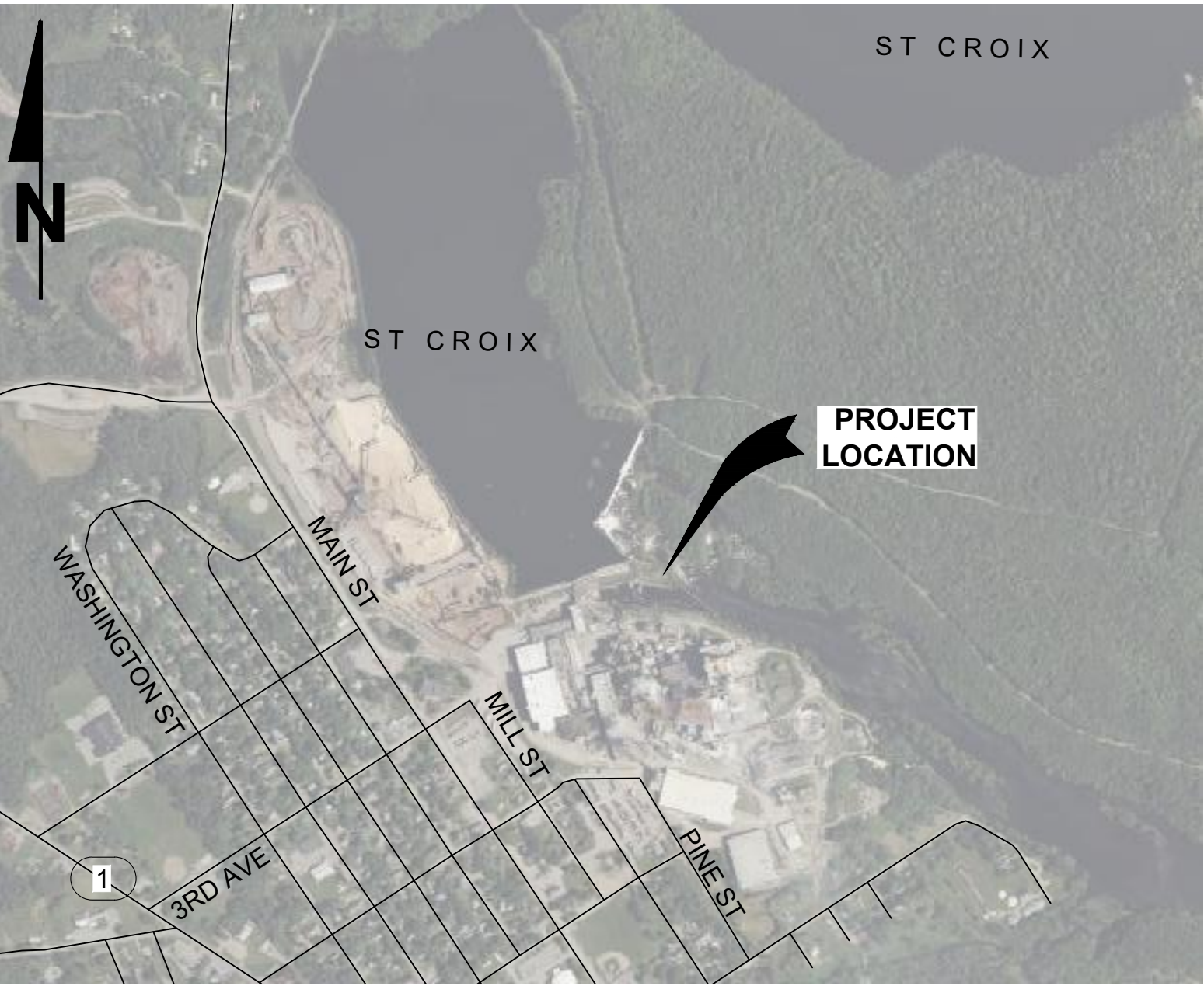
PREPARED BY



LOCATION MAP
SCALE: NTS



LOCATION MAP
SCALE: NTS



VICINITY MAP
SCALE: NTS

DRAWING LIST		
Sheet Number	Sheet Title	Drawing Name
GENERAL		
1	G-001	COVER SHEET, LOCATION MAPS & VICINITY MAP
2	G-002	DRAWING LIST
3	G-003	GENERAL NOTES
4	G-004	ABBREVIATIONS & LEGEND
5	G-100	EXISTING CONDITIONS - OVERALL SITE PLAN
6	G-101	UTILITIES TO BE PROTECTED
7	G-110	GEOTECHNICAL BORINGS & SURVEY CONTROL
8	G-111	GEOTECHNICAL BORING LOGS
9	G-112	GEOTECHNICAL BORING LOGS
10	G-113	GEOTECHNICAL BORING LOGS
11	G-114	GEOTECHNICAL BORING LOGS
12	G-120	CONSTRUCTUION LIMITS & STAGING AREAS
13	G-121	SITE ACCESS & STAGING AREAS
14	G-130	EROSION CONTROL & DEWATERING PLAN
15	G-131	EROSION CONTROL & DEWATERING DETAILS
DEMOLITION		
16	D-100	DEMOLITION PLAN
17	D-101	DEMOLITION VIEWS
18	D-102	CONCRETE REMOVAL SECTIONS
19	D-103	CONCRETE REMOVAL AT INTAKE DAM (BID SUPPLEMENT)
20	D-104	PIPE PLUGS AT DAM
CIVIL		
21	C-001	EXCAVATION PLAN
22	C-002	ROCK EXCAVATION SECTIONS
23	C-003	ROCK EXCAVATION SECTIONS
24	C-004	EXCAVATION SECTIONS
25	C-010	OVERALL SITE PLAN - GENERAL
26	C-011	STRUCTURE CONTROL PLAN
27	C-012	FINAL GRADING AND DRAINAGE PLAN
28	C-013	GRADING AND DRAINAGE DETAILS
29	C-100	FISH LIFT GENERAL ARRANGEMENT PLAN
30	C-101	FISH LIFT GENERAL ARRANGEMENT SECTION
31	C-120	EXIT FLUME GENERAL ARRANGEMENT PLAN
32	C-121	EXIT FLUME GENERAL ARRANGEMENT SECTION
33	C-122	EXIT FLUME GENERAL ARRANGEMENT SECTION
34	C-123	EXIT FLUME BYPASS SECTION
35	C-124	VIEWING WINDOW & COUNTING BUILDING
36	C-125	VIEWING WINDOW DETAILS
37	C-140	FISH LADDER GENERAL ARRANGEMENT PLAN (NOT IN CONTRACT)
38	C-141	FISH LADDER PLATFORM OVERALL ISOMETRIC VIEW (NOT IN CONTRACT)
39	C-142	FISH LADDER PLAN & PROFILE (NOT IN CONTRACT)
40	C-143	FISH LADDER PLAN & PROFILE (NOT IN CONTRACT)
41	C-144	FISH LADDER PLAN & PROFILE (NOT IN CONTRACT)
42	C-160	DOWNSTREAM BYPASS GENERAL ARRANGEMENT PLAN
43	C-161	DOWNSTREAM BYPASS SECTION (BID SUPPLEMENT)
44	C-162	DOWNSTREAM EEL BYPASS SECTIONS AND DETAILS (BID SUPPLEMENT)
45	C-163	EEL PACKAGE BACKWASH SYSTEM (BID SUPPLEMENT)
46	C-180	ACCESS BRIDGE GENERAL PLAN (ALTERNATE ACCESS)
47	C-181	ACCESS BRIDGE GENERAL ARRANGEMENT SECTIONS (ALTERNATE ACCESS)
48	C-182	ACCESS ROAD PLAN AND PROFILE (ALTERNATE ACCESS)
49	C-183	ACCESS ROAD SECTIONS (ALTERNATE ACCESS)
50	C-184	ACCESS ROAD SECTIONS (ALTERNATE ACCESS)
51	C-185	ACCESS ROAD 3 PLAN, PROFILE & SECTIONS (ALTERNATE ACCESS)
52	C-186	VEHICULAR GUARDRAIL DETAILS (ALTERNATE ACCESS)
53	C-300	SYMBOLS AND ABBREVIATIONS
54	C-301	AWS PIPE 1 PLAN AND PROFILE
55	C-302	AWS PIPE 2 PLAN AND PROFILE (NOT IN CONTRACT)
56	C-303	AWS PIPE 3 PLAN AND PROFILE
57	C-304	FISH BYPASS 1 PLAN AND PROFILE STA 0+00 TO STA 2+50 (NOT IN CONTRACT)
58	C-305	FISH BYPASS 1 PLAN AND PROFILE STA 2+50 TO STA 3+84.53 (NOT IN CONTRACT)
59	C-306	FISH BYPASS 2 PLAN AND PROFILE

60	C-307	FISH BYPASS 3 PROFILE (BID SUPPLEMENT)
61	C-350	PIPE DETAILS
62	C-351	PIPE DETAILS
STRUCTURAL		
63	S-001	STRUCTURAL NOTES
64	S-002	STRUCTURAL DESIGN CRITERIA
65	S-003	GENERAL OVERVIEW
66	S-100	FISH LIFT - STRUCTURAL CONCRETE EL 110.00
67	S-101	FISH LIFT - STRUCTURAL CONCRETE SECTION
68	S-102	FISH LIFT - STRUCTURAL CONCRETE SECTION
69	S-103	FISH LIFT - STRUCTURAL CONCRETE SECTION
70	S-104	FISH LIFT - SECONDARY ENTRANCE
71	S-105	FISH LIFT - CONCRETE CORBELS
72	S-106	FISH LIFT - CONCRETE SECTIONS
73	S-110	FISH LIFT CONCRETE ENTRANCE FLUME EMBEDMENT DETAILS
74	S-120	EXIT FLUME PLAN
75	S-121	EXIT FLUME ENLARGED PLANS
76	S-122	CONCRETE EXIT FLUME SECTIONS
77	S-123	EXIT FLUME CONCRETE SECTIONS
78	S-124	TRAP AND CROWDER FRAMING PLAN AT EL 135.5 AND DETAILS
79	S-125	TRAP AND CROWDER FRAMING PLAN AT EL 146.36 AND DETAILS
80	S-126	MONORAIL FRAMING PLAN AND SECTION
81	S-127	VIEWING ROOM PLAN AND SECTIONS
82	S-128	VIEWING ROOM PLAN AND SECTIONS
83	S-129	MONORAIL FRAMING SECTIONS AND DETAILS
84	S-130	BAR RACK ELEVATION AND DETAILS
85	S-131	STEEL EXIT FLUME PLANS AND SECTIONS
86	S-132	STEEL EXIT FLUME SECTIONS & DETAILS
87	S-133	STEEL EXIT FLUME SUPPORT FRAMING SECTIONS & DETAILS
88	S-134	STEEL EXIT FLUME SUPPORT FRAMING DETAILS
89	S-135	STEEL EXIT FLUME TRANSITION PLANS AND DETAILS
90	S-136	STEEL EXIT FLUME PLANS AND SECTIONS
91	S-137	STEEL EXIT FLUME PLANS AND SECTIONS
92	S-138	STEEL EXIT FLUME DETAILS
93	S-139	STEEL EXIT FLUME DETAILS
94	S-140	FISH LADDER PLAN (NOT IN CONTRACT)
95	S-141	ENLARGED FISH LADDER FOUNDATION PLAN
96	S-142	FISH LADDER ENLARGED PLAN (NOT IN CONTRACT)
97	S-143	ENLARGED FISH LADDER PLANS (NOT IN CONTRACT)
98	S-144	FISH LADDER SECTIONS (NOT IN CONTRACT)
99	S-145	FISH LADDER SECTIONS (NOT IN CONTRACT)
100	S-146	FISH LADDER SECTIONS (NOT IN CONTRACT)
101	S-147	FISH LADDER SECTION AND DETAILS
102	S-148	FISH LADDER SECTION
103	S-149	COLUMN CAP SECTIONS & DETAILS
104	S-150	WEIR DETAILS (NOT IN CONTRACT)
105	S-151	WEIR 64 & 65 SECTION AND DETAILS (NOT IN CONTRACT)
106	S-160	DOWNSTREAM FISH PASSAGE PLAN
107	S-161	DOWNSTREAM FISH PASSAGE SECTION (BID SUPPLEMENT)
108	S-162	BYPASS TROUGH SECTION (BID SUPPLEMENT)
109	S-163	BYPASS TROUGH SECTIONS & DETAILS
110	S-164	BYPASS TROUGH PLANS & DETAILS
111	S-165	DOWNSTREAM FISH PASSAGE SECTION (BID SUPPLEMENT)
112	S-166	BYPASS FLUME TRANSITION SEGMENT 1 (NOT IN CONTRACT)
113	S-167	BYPASS FLUME TRANSITION SEGMENT 1 SECTIONS & DETAILS (NOT IN CONTRACT)
114	S-168	BYPASS FLUME TRANSITION SEGMENT 2 (NOT IN CONTRACT)
115	S-169	BYPASS FLUME TRANSITION SEGMENT 2 SECTIONS & DETAILS (NOT IN CONTRACT)
116	S-170	BYPASS FLUME TRANSITION SEGMENT 3 (NOT IN CONTRACT)
117	S-171	BYPASS FLUME TRANSITION SEGMENT 3 SECTIONS & DETAILS (NOT IN CONTRACT)
118	S-172	BYPASS FLUME TRANSITION SEGMENT 4 (NOT IN CONTRACT)
119	S-173	BYPASS FLUME TRANSITION SEGMENT 4 SECTIONS & DETAILS (NOT IN CONTRACT)
120	S-174	DOWNSTREAM FISH PASSAGE SECTION (NOT IN CONTRACT)
121	S-175	DOWNSTREAM FISH PASSAGE FLUME (NOT IN CONTRACT)
122	S-176	DOWNSTREAM FISH PASSAGE FLUME DETAILS (NOT IN CONTRACT)

123	S-177	DOWNSTREAM FISH PASSAGE FLUME DETAILS (NOT IN CONTRACT)
124	S-178	DOWNSTREAM FISH PASSAGE FLUME SUPPORTS (NOT IN CONTRACT)
125	S-179	BYPASS ENTRANCE TRANSITION SEGMENT
126	S-180	ACCESS BRIDGE ABUTMENT AND PIER PLAN (ALTERNATE ACCESS)
127	S-181	ACCESS BRIDGE ABUTMENT 1 SECTIONS (ALTERNATE ACCESS)
128	S-182	ACCESS BRIDGE ABUTMENT 1 ROCK ANCHOR DETAIL (ALTERNATE ACCESS)
129	S-183	EXISTING FISH LADDER SECTIONS (ALTERNATE ACCESS)
130	S-184	BRIDGE PIER SECTIONS (ALTERNATE ACCESS)
131	S-185	ABUTMENT 2 SECTIONS (ALTERNATE ACCESS)
132	S-186	ACCESS ROAD WALL PROFILES (ALTERNATE ACCESS)
133	S-190	ELECTRICAL ENCLOSURE PLAN
134	S-200	FISH LIFT TOWER OVERALL ISOMETRIC VIEW
135	S-210	FISH LIFT TOWER COLUMN LOCATION PLAN
136	S-211	FISH LIFT TOWER FRAMING PLAN
137	S-212	FISH LIFT TOWER FRAMING PLANS
138	S-213	FISH LIFT TOWER FRAMING PLANS
139	S-214	FISH LIFT TOWER FRAMING PLANS
140	S-220	FISH LIFT TOWER FRAMING ELEVATIONS
141	S-221	FISH LIFT TOWER FRAMING ELEVATIONS
142	S-222	FISH LIFT TOWER FRAMING ELEVATIONS
143	S-230	FISH LIFT TOWER FRAMING SECTIONS & DETAILS
144	S-231	LIFT TOWER FRAMING SECTIONS & DETAILS
145	S-232	FISH LIFT TOWER COLUMN SCHEDULE AND BASE PLATE & CAP PLATE DETAILS
146	S-233	FISH LIFT TOWER STAIR SECTIONS & DETAILS
147	S-234	FISH LIFT TOWER MONORAIL SECTION AND DETAIL
148	S-300	PIPE SUPPORT SCHEDULE
149	S-301	PIPE SADDLE DETAILS
150	S-302	PIPE SUPPORTS (4, 5A, 5B & 6)
151	S-303	PIPE SUPPORT 7 (NOT IN CONTRACT)
152	S-304	PIPE SUPPORT 7 (NOT IN CONTRACT)
153	S-305	PIPE SUPPORT 8 (NOT IN CONTRACT)
154	S-306	PIPE SUPPORTS (9A, 9B, 10 & 11)
155	S-307	PIPE SUPPORTS (13, 14 & 15) (NOT IN CONTRACT)
156	S-308	PIPE SUPPORTS (16, 17, 18 & 23)
157	S-309	PIPE SUPPORTS (19, 20, 21 & 22)
158	S-310	PIPE SUPPORT FRAMING DETAILS
159	S-311	STEEL FRAMING DETAILS
160	S-312	PIPE SUPPORT FRAMING DETAILS (NOT IN CONTRACT)
161	S-313	PIPE SUPPORT FRAMING DETAILS (NOT IN CONTRACT)
162	S-400	PLATFORM AND ACCESS PLAN
163	S-401	FISH LIFT WALKWAY 1 PLAN, SECTIONS AND DETAILS
164	S-402	FISH LIFT WALKWAYS 2, 3, 4 AND 5 PLANS
165	S-403	WALKWAY SECTIONS AND DETAILS
166	S-404	EXIT FLUME WALKWAYS 1 AND 2 PLANS AND SECTIONS
167	S-405	EXIT FLUME WALKWAY 2 DETAILS
168	S-406	EXIT FLUME WALKWAYS 3 AND 4 PLANS
169	S-407	EXIT FLUME WALKWAYS 5 AND 6 PLANS
170	S-408	FISH LADDER WALKWAY 1 PLAN, SECTIONS AND DETAILS (NOT IN CONTRACT)
171	S-409	FISH LADDER WALKWAYS 2, 3, 4, 5 AND 6 PLANS (NOT IN CONTRACT)
172	S-410	FISH LADDER WALKWAY 6 SECTION AND DETAILS (NOT IN CONTRACT)
173	S-411	FISH LADDER WALKWAYS 2 AND 3 SECTIONS AND DETAILS (NOT IN CONTRACT)
174	S-412	FISH LADDER PLATFORM OVERALL ISOMETRIC VIEWS (NOT IN CONTRACT)
175	S-413	FISH LADDER PLATFORM FRAMING PLAN (NOT IN CONTRACT)
176	S-414	FISH LADDER PLATFORM STAIR LOCATION PLAN (NOT IN CONTRACT)
177	S-415	FISH LADDER PLATFORM FRAMING ELEVATION (NOT IN CONTRACT)
178	S-416	FISH LADDER PLATFORM FRAMING DETAILS (NOT IN CONTRACT)
179	S-417	FISH LADDER PLATFORM FRAMING DETAILS (NOT IN CONTRACT)
180	S-418	FISH LADDER FRAMING PLATFORM DETAILS AND STAIR SECTION (NOT IN CONTRACT)

181	S-419	FISH LADDER PLATFORM STAIR SECTION & DETAILS (NOT IN CONTRACT)
182	S-450	OVERALL FOUNDATION PLAN AND SCHEDULE
183	S-451	FOUNDATION PLANS AND SECTIONS
184	S-452	FOUNDATION PLANS AND SECTIONS
185	S-453	FOUNDATION PLANS AND SECTIONS
186	S-454	FOUNDATION PLANS AND SECTIONS
187	S-455	FOUNDATION PLANS AND SECTIONS (NOT IN CONTRACT)
188	S-456	FOUNDATION PLANS AND SECTIONS
189	S-457	FOUNDATION PLANS AND SECTIONS
190	S-458	MICROPILE NOTES & DETAILS
191	S-459	TYPICAL MICROPILE SECTIONS & DETAILS
192	S-500	STRUCTURAL STANDARD DETAILS
193	S-501	STRUCTURAL STANDARD DETAILS
194	S-502	STRUCTURAL STANDARD DETAILS
195	S-503	STRUCTURAL STANDARD DETAILS
196	S-504	STRUCTURAL STANDARD DETAILS
197	S-505	STRUCTURAL STANDARD DETAILS
198	S-506	STRUCTURAL STANDARD DETAILS
199	S-507	STRUCTURAL STANDARD DETAILS
200	S-508	EXIT FLUME TRANSITION DETAILS
MECHANICAL		
201	M-001	GENERAL MECHANICAL NOTES
202	M-002	GENERAL MECHANICAL LAYOUT
203	M-100	FISH LIFT ISOLATION GATE (IG-1)
204	M-101	FISH LIFT ENTRANCE GATE (EG-2)
205	M-102	FISH LIFT V-GATE (VG-3)
206	M-103	FISH LIFT V-GATE (VG-3) OPERATOR SUPPORT ASSEMBLY
207	M-104	FISH LIFT V-GATE (VG-3) GRATING DETAILS
208	M-105	FISH LIFT V-GATE (VG-3) OPERATOR SUPPORT ASSEMBLY
209	M-106	FISH LIFT V-GATE (VG-3) BEARING DETAILS
210	M-110	FISH LIFT HOPPER - GENERAL LAYOUT AND INFORMATION
211	M-111	FISH LIFT HOPPER SECTIONS
212	M-112	FISH LIFT HOPPER - HOPPER GATE (HG-5) SECTIONS AND DETAILS
213	M-113	FISH LIFT HOPPER GATE FRAME
214	M-114	FISH LIFT HOPPER LIFTING FRAME
215	M-115	FISH LIFT HOPPER DETAILS
216	M-116	FISH LIFT HOPPER DETAILS
217	M-117	FISH LIFT HOPPER SIDE GRATING
218	M-118	STOP LOG SPACER FRAMES
219	M-119	FISH LIFT PERFORATED PLATE
220	M-120	EXIT FLUME ISOLATION GATE (IG-6)
221	M-121	EXIT FLUME AWS SCREEN AND BAFFLE
222	M-122	EXIT FLUME BAFFLE AND EMBEDMENT
223	M-123	FISH HOLDING TANK
224	M-124	EXIT FLUME TRAP GATE (TG-18 & TG-19) PLAN AND SECTIONS
225	M-125	EXIT FLUME TRAP GATE (TG-18 & TG-19) OPERATOR SUPPORT ASSEMBLY
226	M-126	EXIT FLUME TRAP GATE (TG-18 & TG-19) EMBEDMENT AND BEARING DETAILS
227	M-127	MOVING FLOOR PLANS AND DETAILS
228	M-128	MOVING FLOOR SECTIONS
229	M-129	CROWDER SCREEN DETAILS
230	M-130	EXIT FLUME WEDGE WIRE SCREEN 3
231	M-131	EXIT FLUME ISOLATION GATE (IG-10)
232	M-132	EXIT FLUME WEDGE WIRE SCREEN DETAILS
233	M-133	AIR BURST PIPE LAYOUT
234	M-140	FISH LADDER ISOLATION GATE (IG-12) (NOT IN CONTRACT)
235	M-141	FISH LADDER AUTOMATIC ENTRANCE GATE (OWG-11) (NOT IN CONTRACT)
236	M-142	FISH LADDER AUTOMATIC EXIT GATE (OWG-13) (NOT IN CONTRACT)
237	M-143	FISH LADDER EXIT ISOLATION GATE (IG-17) (NOT IN CONTRACT)
238	M-160	DOWNSTREAM BYPASS SLIDE GATE (DSG-14 & DSG-15) (BID SUPPLEMENT)
239	M-161	DOWNSTREAM BYPASS SCREEN (NOT IN CONTRACT)
240	M-163	DOWNSTREAM ISOLATION GATE (IG-16) (NOT IN CONTRACT)
241	M-200	WATER LEVEL SENSOR (WLS) AND STAFF GAUGE DETAILS



ISSUED FOR BID
NOT FOR CONSTRUCTION
SEPTEMBER 3, 2025

9/3/2025	ISSUED FOR BID	M. GRAESER
REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING
IF NOT ONE INCH ON THIS
SHEET, ADJUST SCALES
ACCORDINGLY

WOODLAND FISH LIFT PASSAGE DESIGN

MAINE DEPARTMENT OF MARINE
RESOURCES

DRAWING LIST

PROJECT: 16667
DRAWN BY: C. HAGLER
DESIGNER: A. MENGERT
APPROVED BY: M. GRAESER
SHEET: 2 OF 240
DRAWING: G-002

GENERAL NOTES:

1. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE DRAWINGS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT OR ACCURATE. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING THE WORK. SHOULD THE CONTRACTOR IDENTIFY ANY UTILITIES, STRUCTURES OR FEATURES NOT SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
2. ALL UTILITIES SHALL BE KEPT IN OPERATION EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF WOODLAND PULP. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE EXISTING UTILITIES. ANY AND ALL DAMAGE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTOR'S ACTIONS, SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
3. REMOVE, REPLACE OR RELOCATE ALL OVERHEAD INTERFERENCE WHICH MAY AFFECT OPERATION DURING CONSTRUCTION AND TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS OR OTHER UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH. THE ELEVATED ELECTRICAL DUCT SHALL NOT BE REMOVED OR RELOCATED. THE ELEVATED ELECTRICAL DUCT SHALL REMAIN IN SERVICE DURING CONSTRUCTION.
4. COORDINATE UNDERGROUND UTILITY MARKING WITH THE EXISTING UTILITIES BY COORDINATING WITH WOODLAND PULP AND CONTACTING DIGSAFE AT 1-888-344-7233 OR 811. DIGSAFE MUST BE CONTACTED A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION OR GROUND DISTURBANCE.
5. THE CONTRACTOR SHALL REVIEW THE SITE TO DETERMINE EXISTING CONDITIONS. ANYTHING NOT SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA, UNLESS RECOMMENDED BY THE ENGINEER AND APPROVED BY MAINE DMR.
6. CONTACT THE ENGINEER IMMEDIATELY OF ANY CONFLICTS ARISING DURING THE CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.
7. PRESERVE ALL SURVEY MARKERS AND MONUMENTATION WHEREVER POSSIBLE. THOSE REQUIRING REMOVAL SHALL BE RE-ESTABLISHED IN ACCORDANCE WITH THE LOCAL, STATE, OR FEDERAL GOVERNING AUTHORITY.
8. ALL DRAWINGS AND DETAILS INCLUDED IN THE CONTRACT DOCUMENTS SHALL FULLY APPLY TO THE WORK WHETHER SPECIFICALLY REFERENCED OR NOT.
9. LIMIT CONSTRUCTION OPERATIONS TO WITHIN THE RIGHT-OF-WAY, EASEMENTS, AND DESIGNATED WORK AREAS AS INDICATED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGES OUTSIDE THE DESIGNATED WORK AREAS SHOWN ON THE DRAWINGS.
10. RESTORE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. REFER TO SPECIFICATION SECTION 32 90 10 SITE RESTORATION.
11. THE CONTRACTOR SHALL REPLACE ALL ROADS, STABILIZED EARTH, FENCES, AND DRIVEWAYS, ETC., WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION.
12. SHORING REQUIRED FOR THE STABILITY OF THE UNCOMPLETED STRUCTURE OR FOR INSTALLATION OR MODIFICATION OF STRUCTURAL MEMBERS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
13. DIMENSIONS OF VALVES, FITTINGS AND OTHER EQUIPMENT MAY VARY DEPENDING UPON MANUFACTURER. CONTRACTOR SHALL REVIEW SHOP DRAWINGS BEFORE SETTING BASES, SUPPORTS, ETC.
14. EXISTING FENCING DISTURBED OR REMOVED SHALL BE REPLACED IN KIND
15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A SECURE PROJECT SITE. WOODLAND PULP WILL NOT BE RESPONSIBLE FOR STOLEN OR VANDALIZED PROPERTY.
16. AT THE CLOSE OF EACH WORKING SHIFT, WHERE THE NEXT SHIFT WILL NOT IMMEDIATELY FOLLOW, PROTECT AND SECURE OPEN EXCAVATION.
17. AREAS WHERE PERMANENT DISTURBANCE IS NOT AUTHORIZED, AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND ELEVATION, WHICH UNDER NO CIRCUMSTANCE, SHALL BE HIGHER THAN THE PRE-CONSTRUCTION ELEVATION. ORIGINAL CONDITIONS MEANS CAREFUL PROTECTION AND/OR REMOVAL OF EXISTING SOIL AND VEGETATION, AND REPLACEMENT BACK TO THE ORIGINAL LOCATIONS THAT THE ORIGINAL SOIL LAYERING AND VEGETATION SCHEMES ARE APPROXIMATELY THE SAME, UNLESS OTHERWISE AUTHORIZED.
18. VERTICAL DATUM IN THE DRAWINGS IS BASED ON NAVD88.
19. HORIZONTAL DATUM IS THE STATE PLAN COORDINATE SYSTEM NAD83 MAINE EAST ZONE.

FISH PASSAGE NOTES:

- 1. POWERHOUSE
 - 3,200 CFS NOMINAL CAPACITY
- 2. RIVER FLOW
 - DESIGN LOW 895 CFS (95% EXCEEDANCE)
 - AVERAGE 2,350 CFS (50% EXCEEDANCE)
 - DESIGN HIGH 7,620 CFS (5% EXCEEDANCE)

- ### 3. WATER LEVELS

HEAD POND ELEVATIONS (NAVD 88)

- DESIGN LOW 144.0 FT
- NORMAL 144.6 FT
- DESIGN HIGH 145.4 FT
- DAM CREST 138.6 FT CANADIAN SIDE
- DAM CREST 140.4 FT AMERICAN SIDE
- T/ FLASHBOARDS 145.0 FT

TAILWATER ELEVATIONS (NAVD 88)

- DESIGN LOW 95.6 FT (95% EXCEEDANCE)
- NORMAL 96.8 FT
- DESIGN HIGH 99.7 FT (5% EXCEEDANCE)
- 100 YEAR FLOOD 109.0 FT

- #### 4. TARGET SPECIES POPULATIONS (MAINE DEPARTMENT OF MARINE RESOURCES)

- AMERICAN SHAD 165,000
- ALEWIVES 26,000,000
- BLUEBACK HERRING 1,597,213

FISH PASSAGE FACILITIES WILL BE OPERATIONAL FROM MAY 1ST TO JULY 15TH FOR UPSTREAM PASSAGE. DOWNSTREAM PASSAGE FACILITIES WILL BE OPERATIONAL FROM MAY 1ST TO NOVEMBER 15TH.

- ## 5. FISH LIFT ENTRANCE

- 6 INCH HEAD DROP (UP TO 2 FEET)
- HINGED FLAP GATE TO MAINTAIN TARGET HEAD DROP AND VELOCITY
- INVERT EL. 90.0 FT
- 8 FT ENTRANCE WIDTH
- MINIMUM SUBMERGENCE OF ENTRANCE SHALL BE 3 FEET

- ## 6. FISH LIFT ATTRACTION WATER SYSTEM

- TOTAL ATTRACTION FLOW 160 CFS
- FISH LIFT ENTRANCE UP TO 160 CFS (5% OF STATION CAPACITY)
- AWS INTAKE SCREENS 0.25 INCH SLOT WIDTH WEDGE WIRE
- AWS SCREEN APPROACH VELOCITY 0.5 FT/SEC
- AWS SCREEN OPEN AREA 50%
- AWS DESIGN FLOW 0.5 CFS/SQ FT

- ## 7. FISH LIFT DESIGN FEATURES

- FISH LIFT CYCLE TIME 15 MIN (ASSUMED FISHING TIME OF 7 MINUTES)
- TWO SIDED BRAIL, 9.5 DEGREE SLOPE, SMOOTH ALUMINUM W/ 50% POROSITY
- HOPPER VOLUME 490 CUFT
- ADJUSTABLE V-TRAP OPENING BETWEEN 1'-0" AND 6'-5"
- EXIT FLUME 8 FT WIDE FLUME

- ## 8. POOL AND CHUTE LADDER DESIGN FEATURES (NOT IN CONTRACT)

- | | |
|----------------------|------------------------|
| • DROP PER POOL | 9 INCHES |
| • WEIR WIDTH | 24 INCHES |
| • WEIR NORMAL DEPTH | 21 INCHES |
| • ORIFICE | 10 BY 10 INCHES |
| • POOL DIMENSIONS | 8 FT WIDE BY 8 FT LONG |
| • 65 POOLS | |
| • SLOPE | 9.375% |
| • ENTRANCE INVERT | EL 91.60 FT |
| • EXIT INVERT | EL. 138.60 FT |
| • NORMAL DEPTH | 4.75 FT |
| • NORMAL LADDER FLOW | 18 CFS |

- ## 9. DOWNSTREAM PASSAGE FEATURES

- BAR RACK WITH 0.75 INCH CLEAR SPACING
- BAR RACK AVERAGE APPROACH VELOCITY 0.7 FT/SEC
- 2 BYPASSES WITHIN RACK FACE 3 FT WIDE BY 6 FT DEEP
- RACK BYPASS APPROACH VELOCITY 2.2 FT/SEC
- RACK BYPASS FLOW 80 CFS (40 CFS EACH BYPASS)
- RACK BYPASS DISCHARGED NEAR LADDER ENTRANCE
- EXIT FLUME BYPASS 80 CFS
- EXIT FLUME BYPASS DISCHARGED NEAR FISH LIFT ENTRANCE
- TOTAL DOWNSTREAM PASSAGE FLOW 160 CFS

- ## 10. EEL BYPASS FEATURES


- 3 BYPASSES AT SILL OF INTAKE WITH 6" DIAMETER BELL MOUTH ENTRANCE.
- 6" DIAMETER BYPASS PIPE TO BYPASS FLUME
- FLOW: 0.5 CFS EACH
- ENTRANCE VELOCITY: 2.4 FT/SEC



ISSUED FOR BID
NOT FOR CONSTRUCTION
SEPTEMBER 3, 2025

9/3/2025	ISSUED FOR BID	M. GRAESER
REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING



IF NOT ONE INCH ON THIS
SHEET, ADJUST SCALES
ACCORDINGLY

WOODLAND FISH LIFT PASSAGE DESIGN

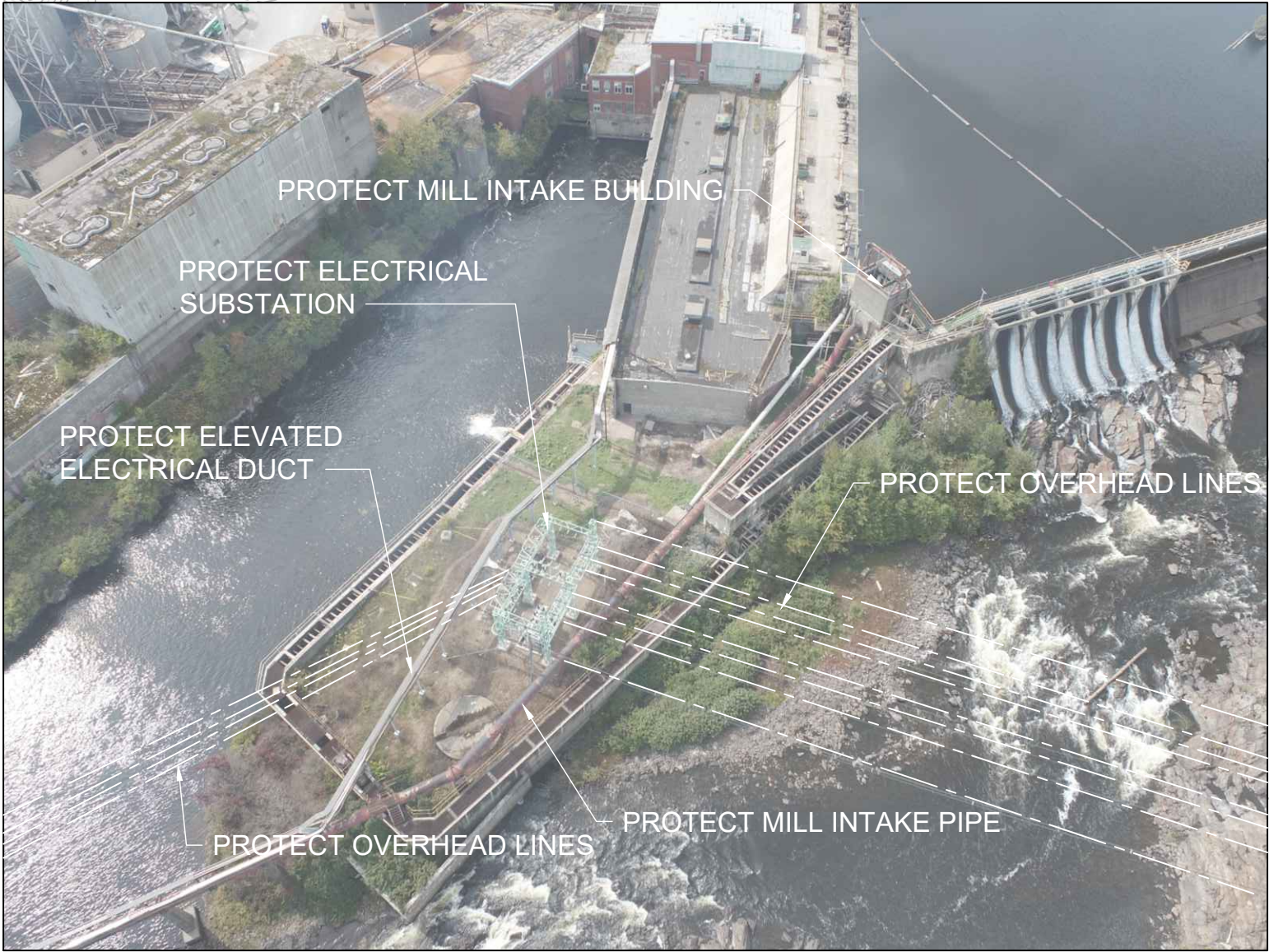
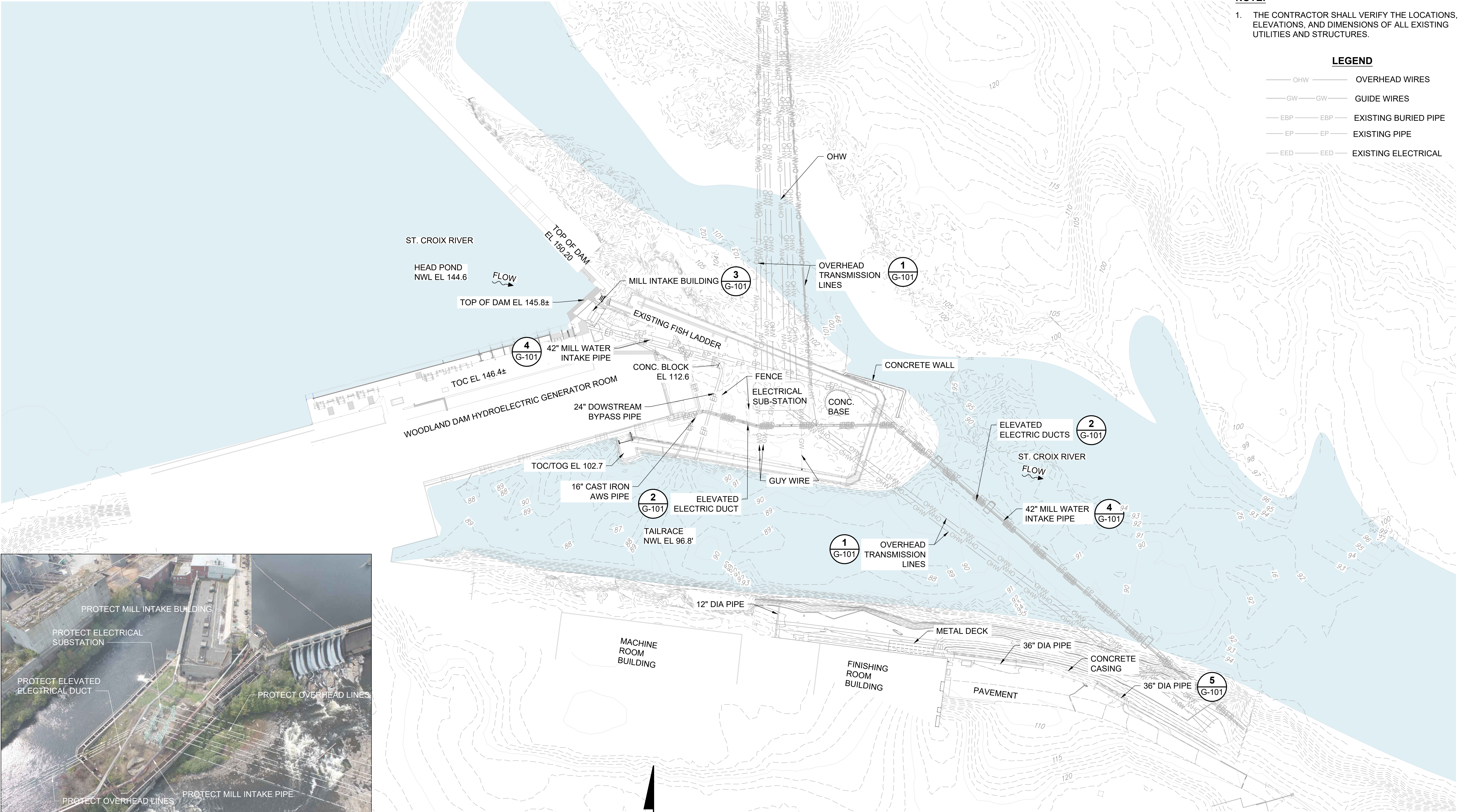
MAINE DEPARTMENT OF MARINE
RESOURCES

GENERAL NOTES

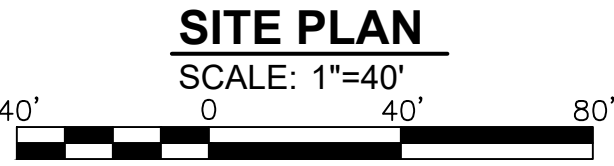
PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET:	3 OF 240
DRAWING:	G-003

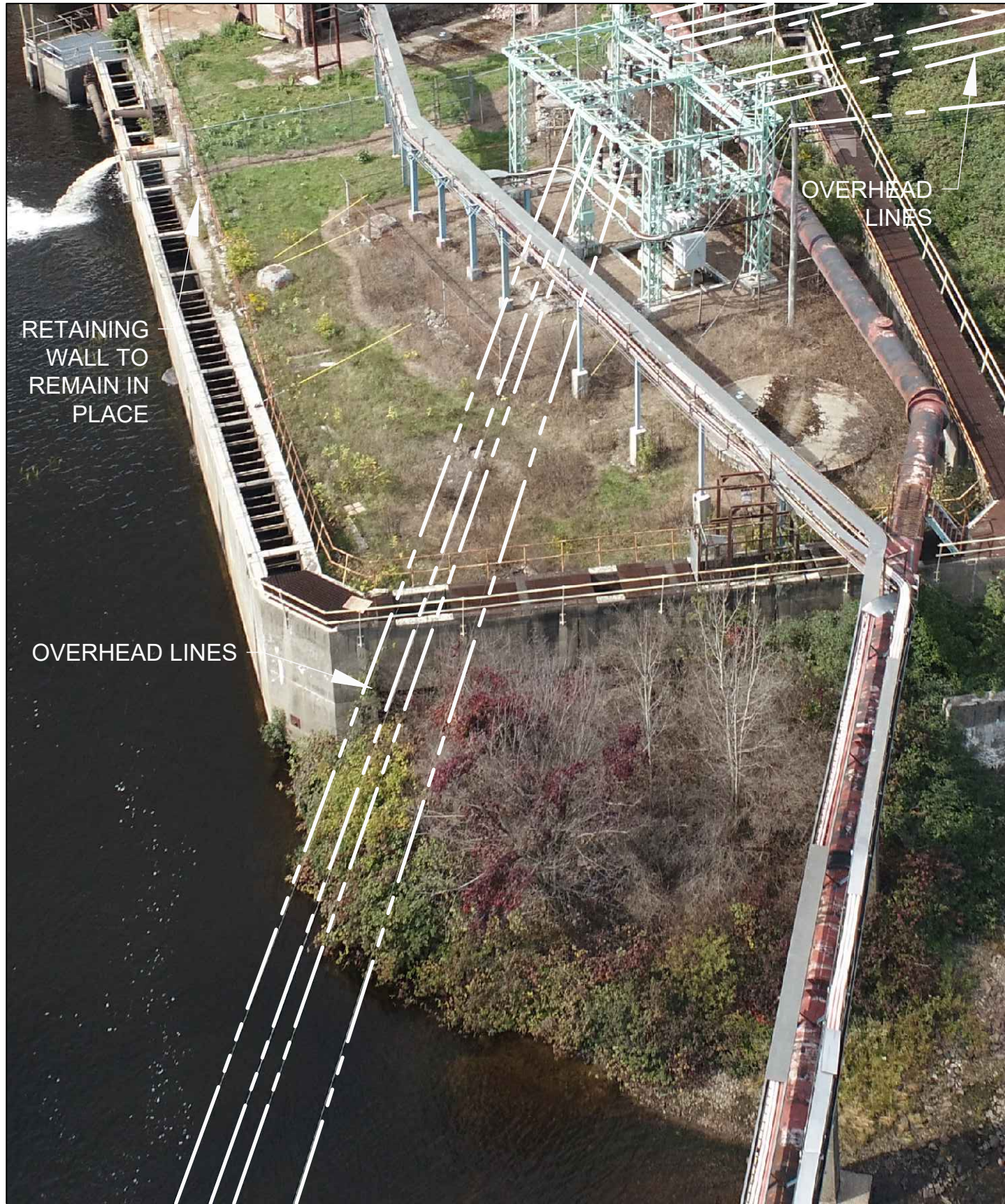
NOTE:
1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES AND STRUCTURES.

- LEGEND**
- OHW — OVERHEAD WIRES
 - GW — GW — GUIDE WIRES
 - EBP — EBP — EXISTING BURIED PIPE
 - EP — EP — EXISTING PIPE
 - EED — EED — EXISTING ELECTRICAL



OVERVIEW OF UTILITIES TO BE PROTECTED DURING CONSTRUCTION
SCALE: NTS

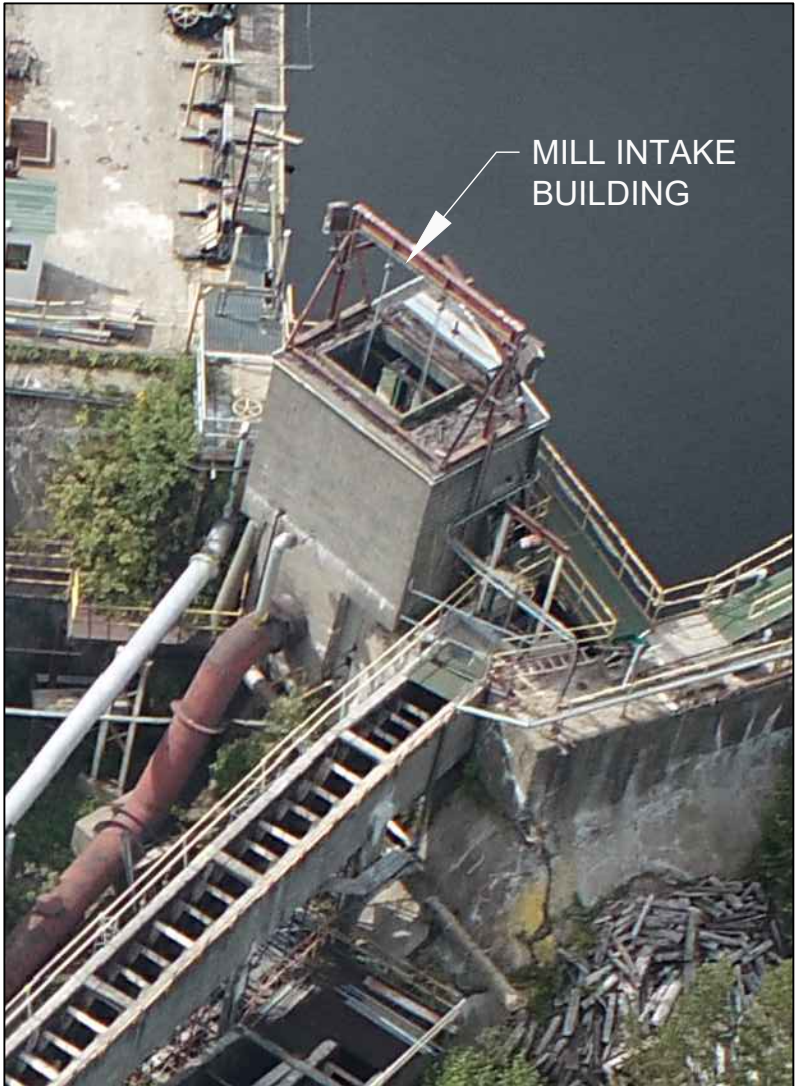




1 OVERHEAD LINES
G-100 SCALE: NTS



2 ELEVATED DUCT BANK
G-100 SCALE: NTS



3 EXISTING MILL INTAKE BUILDING
G-100 SCALE: NTS



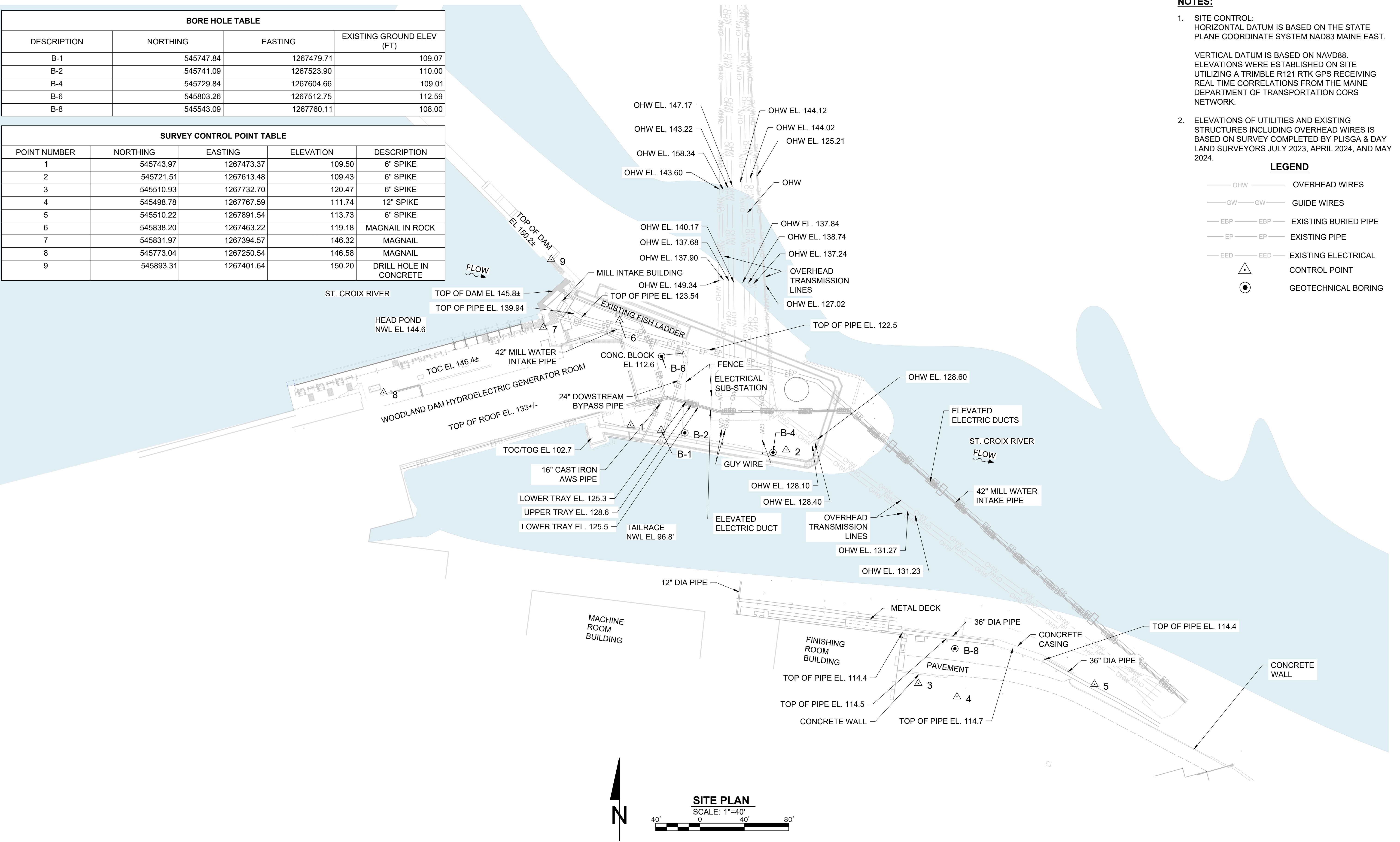
4 MILL WATER INTAKE PIPE
G-100 SCALE: NTS



5 36" PIPE WITH CONCRETE CASING
G-100 SCALE: NTS


BORE HOLE TABLE			
DESCRIPTION	NORTHING	EASTING	EXISTING GROUND ELEV (FT)
B-1	545747.84	1267479.71	109.07
B-2	545741.09	1267523.90	110.00
B-4	545729.84	1267604.66	109.01
B-6	545803.26	1267512.75	112.59
B-8	545543.09	1267760.11	108.00


SURVEY CONTROL POINT TABLE				
POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	545743.97	1267473.37	109.50	6" SPIKE
2	545721.51	1267613.48	109.43	6" SPIKE
3	545510.93	1267732.70	120.47	6" SPIKE
4	545498.78	1267767.59	111.74	12" SPIKE
5	545510.22	1267891.54	113.73	6" SPIKE
6	545838.20	1267463.22	119.18	MAGNAIL IN ROCK
7	545831.97	1267394.57	146.32	MAGNAIL
8	545773.04	1267250.54	146.58	MAGNAIL
9	545893.31	1267401.64	150.20	DRILL HOLE IN CONCRETE





- NOTES:**
- SITE CONTROL:**
HORIZONTAL DATUM IS BASED ON THE STATE PLANE COORDINATE SYSTEM NAD83 MAINE EAST.

VERTICAL DATUM IS BASED ON NAVD88. ELEVATIONS WERE ESTABLISHED ON SITE UTILIZING A TRIMBLE R121 RTK GPS RECEIVING REAL TIME CORRELATIONS FROM THE MAINE DEPARTMENT OF TRANSPORTATION CORS NETWORK.
 - ELEVATIONS OF UTILITIES AND EXISTING STRUCTURES INCLUDING OVERHEAD WIRES IS BASED ON SURVEY COMPLETED BY PLISGA & DAY LAND SURVEYORS JULY 2023, APRIL 2024, AND MAY 2024.
- LEGEND**
- OHW — OVERHEAD WIRES
 - GW — GUIDE WIRES
 - EBP — EXISTING BURIED PIPE
 - EP — EXISTING PIPE
 - EED — EXISTING ELECTRICAL
 - △ CONTROL POINT
 - GEOTECHNICAL BORING

SOIL BORING LOG									
		Client: Maine Department of Marine Resources				Boring Identification: B-1 (Offset)			
		Project: Woodland Fish Passage Design				Sheet: 1 of 2			
		Location: Woodland Dam, St. Croix River, Baileyville, Maine				Checked By: CJS Project Number: 16667			
Drilling Company: New England Boring Company				Boring Location Lat/Long: 45.15851173° / -67.40196874°					
Foreman: Tom				Ground Surface Elevation: 109'				Datum: NAVD88	
Engineer/Geologist: Joel Morin				Date Started: 4/3/24				Date Completed: 4/4/24	
DRILLING METHOD		SAMPLER		GROUNDWATER MEASUREMENTS					
Vehicle: ATV		Type: SS 2" - NQ Core		Date	Depth (ft)	Reference	Stabilization		
Model: Soil Scout		Hammer (lb): 140		04/04/2024	Not observed	Ground Surface	During Drilling		
Method: SSA/Driven casing/rock hammer		Fall (in): ~18							
DEPTH (ft)	SAMPLE INFORMATION				SAMPLE DESCRIPTION	STRATUM DESCRIPTION	FIELD SCREENING (ppm)	NOTE	
	#	Pen/Rec (in)	Depth (ft)	Blows/6"					
0					Note: Solid stem auger to 5 ft bgs; casing driven to 5 ft bgs.	FILL			
1									
2									
3									
4									
5	S1	24/2	5-7	5	S1: Loose*, brown, GRAVEL and silty SAND, moist.				
6				4					
7				9					
8				8					
9					Note: Bedrock encountered at 8 ft bgs; air hammer to 10 ft bgs.	HIGHLY FRACTURED BEDROCK			
10									
11	C1	60/60	10-15	-	C1: Gray/light gray, fine to coarse grained, interbedded WACKE and thinly laminated ARENITE, Several core barrel jams, and starting and stopping to clear jams [Cookson Group]. Estimated Recovery: 100% RQD: 8%.				
12									
13									
14									
15					Rock Coring Rate (min:sec) 10- 11 ft 1:03; 11 - 12 ft 5:42; 12 - 13 ft 7:35; 13 - 14 ft 9:32; 14 - 15 ft 12:05	BEDROCK			
16					Note: 14-15 ft, Sheen observed on extracted cored rock and in water exiting borehole.				
17	C2	51.6/50.5	15-19.3	-	C2: Gray/light gray, fine to coarse grained, interbedded WACKE and thinly laminated ARENITE, Several core barrel jams, and starting and stopping to clear jams [Cookson Group]. Recovery: 98% RQD: 66%.				
18									
19									
20									
	GRANULAR SOILS		COHESIVE SOILS		NOTES				
	Blows/ft.	Density	Blows/ft.	Consistency	1. Boring backfilled with cuttings to the ground surface. 2. Ground surface elevation approximated based on Existing Conditions Plan dated 4/10/2023. 3. Lat/Long coordinates approximated from Google Earth. bgs = below the ground surface * Short and inconsistent hammer drop height using rope and cathead with donut hammer; cannot be corelated to standard N-values				
	0-4	V. LOOSE	<2	V. SOFT					
	5-10	LOOSE	2-4	SOFT					
	11-30	M. DENSE	4-8	M. STIFF					
	31-50	DENSE	8-15	STIFF					
	>50	V. DENSE	15-30	V. STIFF					
			>30	HARD					

	<div style="border: 1px solid black; padding: 5px; text-align: center;"> ISSUED FOR BID NOT FOR CONSTRUCTION SEPTEMBER 3, 2025 </div>				<div style="border: 1px solid black; padding: 5px;"> <p>VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING</p> <p>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</p> </div>	<p>WOODLAND FISH LIFT PASSAGE DESIGN</p> <p>MAINE DEPARTMENT OF MARINE RESOURCES</p>	<p>GEOTECHNICAL BORING LOGS</p>	PROJECT: 16667
								DRAWN BY: C. HAGLER
								DESIGNER: A. MENGERT
								APPROVED BY: M. GRAESER
								SHEET: 8 OF 240
								DRAWING: G-111
9/3/2025	ISSUED FOR BID	M. GRAESER						
REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY						

SOIL BORING LOG										
		Client: Maine Department of Marine Resources				Boring Identification: B-4				
		Project: Woodland Fish Passage Design				Sheet: 1 of 1				
		Location: Woodland Dam, St. Croix River, Baileyville, Maine				Checked By: CJS Project Number: 16667				
Drilling Company: New England Boring Company				Boring Location Lat/Long: 45.15845772° / -67.40148536°						
Foreman: Tom				Ground Surface Elevation: 109'				Datum: NAVD88		
Engineer/Geologist: Joel Morin				Date Started: 4/5/24				Date Completed: 4/5/24		
DRILLING METHOD		SAMPLER		GROUNDWATER MEASUREMENTS						
Vehicle: ATV		Type: SS 2" - NQ Core		Date	Depth (ft)	Reference	Stabilization			
Model: Soil Scout		Hammer (lb): 140		04/05/2024	Not observed	Ground Surface	During Drilling			
Method: SSA/Driven casing/rock hammer		Fall (in): ~18"								
DEPTH (ft)	SAMPLE INFORMATION				SAMPLE DESCRIPTION	STRATUM DESCRIPTION	FIELD SCREENING (ppm)	NOTE		
	#	Pen/Rec (in)	Depth (ft)	Blows/6"						
0					Note: Solid Stem auger through 10 ft of loose silty SAND, laden with boulders.	FILL				
1										
2										
3										
4										
5										
6										
7										
8										
9										
10					Boring terminated at 10 bgs.					
11										
12										
13										
14										
15										
16										
17										
18										
19										
20	GRANULAR SOILS		COHESIVE SOILS		NOTES					
	Blows/ft.	Density	Blows/ft.	Consistency	1. Boring backfilled with cuttings to the ground surface. 2. Ground surface elevation approximated based on Existing Conditions Plan dated 4/10/2023. 3. Lat/Long coordinates approximated from Google Earth. bgs = below the ground surface * Short and inconsistent hammer drop height using rope and cathead with donut hammer; cannot be corelated to standard N-values					
	0-4	V. LOOSE	<2	V. SOFT						
	5-10	LOOSE	2-4	SOFT						
	11-30	M. DENSE	4-8	M. STIFF						
	31-50	DENSE	8-15	STIFF						
	>50	V. DENSE	15-30	V. STIFF						
			>30	HARD						

SOIL BORING LOG									
		Client: Maine Department of Marine Resources				Boring Identification: B-6			
		Project: Woodland Fish Passage Design				Sheet: 1 of 1			
		Location: Woodland Dam, St. Croix River, Baileyville, Maine				Checked By: CJS Project Number: 16667			
Drilling Company: New England Boring Company				Boring Location Lat/Long: 45.15866249° / -67.40183773°					
Foreman: Tom				Ground Surface Elevation: 112'				Datum: NAVD88	
Engineer/Geologist: Joel Morin				Date Started: 4/4/24				Date Completed: 4/5/24	
DRILLING METHOD		SAMPLER		GROUNDWATER MEASUREMENTS					
Vehicle: ATV		Type: SS 2" - NQ Core		Date	Depth (ft)	Reference	Stabilization		
Model: Soil Scout		Hammer (lb): 140		04/05/2024	Not observed	Ground Surface	During Drilling		
Method: SSA/Driven casing/rock hammer		Fall (in): ~18							
DEPTH (ft)	SAMPLE INFORMATION				SAMPLE DESCRIPTION	STRATUM DESCRIPTION	FIELD SCREENING (ppm)	NOTE	
	#	Pen/Rec (in)	Depth (ft)	Blows/6"					
0					Note: Solid stem auger to 5 ft bgs; casing driven to 5 ft bgs.	FILL			
1									
2									
3									
4									
5					Note: Weathered and highy fractured bedrock encountered at 8.1 ft bgs. Attempted air hammer initially; replaced by rolller bit and flowing water to 11 ft bgs.	HIGHLY FRACTURED BEDROCK			
6									
7									
8									
9									
10					Note: Bedrock encountered at 11 ft bgs. Coring started at 11 ft bgs. C1: Gray/light gray, fine to coarse grained, interbedded WACKE and thinly laminated ARENITE, Several core barrel jams, and starting and stopping to clear jams [Cookson Group]. Recovery: 93% RQD: 65%. Rock Coring Rate (min:sec) 11 - 12 ft 2:54; 12 - 13 ft 4:36; 13 - 14 ft 3:51; 14 - 15 ft 5:12; 15 - 16 ft 7:01	BEDROCK			
11	C1	60/56	11-16	-					
12									
13									
14									
15					Boring terminated at 16 ft bgs.				
16									
17									
18									
19									
20									
GRANULAR SOILS		COHESIVE SOILS		NOTES					
Blows/ft.		Density		Blows/ft.	Consistency				
0-4		V. LOOSE		<2	V. SOFT				
5-10		LOOSE		2-4	SOFT				
11-30		M. DENSE		4-8	M. STIFF				
31-50		DENSE		8-15	STIFF				
>50		V. DENSE		15-30	V. STIFF				
				>30	HARD				
1. Boring backfilled with cuttings to the ground surface. 2. Ground surface elevation approximated based on Existing Conditions Plan dated 4/10/2023. 3. Lat/Long coordinates approximated from Google Earth. bgs = below the ground surface * Short and inconsistent hammer drop height using rope and cathead with donut hammer; cannot be corelated to standard N-values									

verdantas

PROFIT. FOCUSED. FUTURE.

Client: Maine Department of Marine Resources

Project: Woodland Fish Passage Design

Location: Woodland Dam, St. Croix River, Baileyville, Maine

Boring Identification: B-8

Sheet: 1 of 1

Checked By:

Project Number: 16667

Drilling Company: New England Boring Contractors

Boring Location Lat/Long: 45.15793977° / -67.40089266°

Foreman: Devon Share

Ground Surface Elevation: 108'

Datum: NAVD88

Verdantas Engineer/Geologist: Begum Kurtoglu

Date Started: 11/10/2023

Date Completed: 11/10/2023

DRILLING METHOD

SAMPLER

Vehicle: Drill 28

Type: SS 2" - NQ Core

Model: B53

Hammer (lb): 140

Method: Drive and Wash 3"

Fall (in): 30

DEPTH (ft)

SAMPLE INFORMATION

SAMPLE DESCRIPTION

STRATUM DESCRIPTION

FIELD SCREENING (ppm)

NOTE

0

Note: Hand excavated to 2.1 ft below ground surface to confirm no utilities present at boring location.

1

2

S1

6/0

2.1 - 2.6

21

S1: No recovery.

3

50/0"

4

-

5

S2

22/5

4.0 - 5.9

4

S2: Loose, gray, GRAVEL and fine to coarse SAND, some Rock Pieces, trace Silt, dry.

6

5

7

50/4"

Note: Weathered bedrock encountered starting from 5.8 ft to 6.3 ft bgs. Coring started at 6.3 ft bgs.

WEATHERED BEDROCK

8

C1

60/60

6.3 - 11.3

-

C1: Gray, fine-grained, WACKE and ARENITE, moderately hard, moderately to highly weathered, 5.4 fractures per foot (RQD: 0%; Very poor) [Cookson Group].
Rock Coring Rate (min:sec)
6.3 - 7.3 ft: 01:38
7.3 - 8.3 ft: 01:51
8.3 - 9.3 ft: 01:39
9.3 - 10.3 ft: 01:41
10.3 - 11.3 ft: 01:56

BEDROCK

9

10

11

12

Boring terminated at 11.3 ft bgs.

13

14

15

16

17

18

19

20

GRANULAR SOILS

COHESIVE SOILS

NOTES

Blows/ft.

Density

Blows/ft.

Consistency

1. Boring backfilled with cuttings to the ground surface.
2. Ground surface elevation approximated based on Existing Conditions Plan dated 4/10/2023.
3. Lat/Long coordinates approximated from Google Earth.

bgs= below ground surface

0-4

V. LOOSE

<2

V. SOFT

5-10

LOOSE

2-4

SOFT

11-30

M. DENSE

4-8

M. STIFF

31-50

DENSE

8-15

STIFF

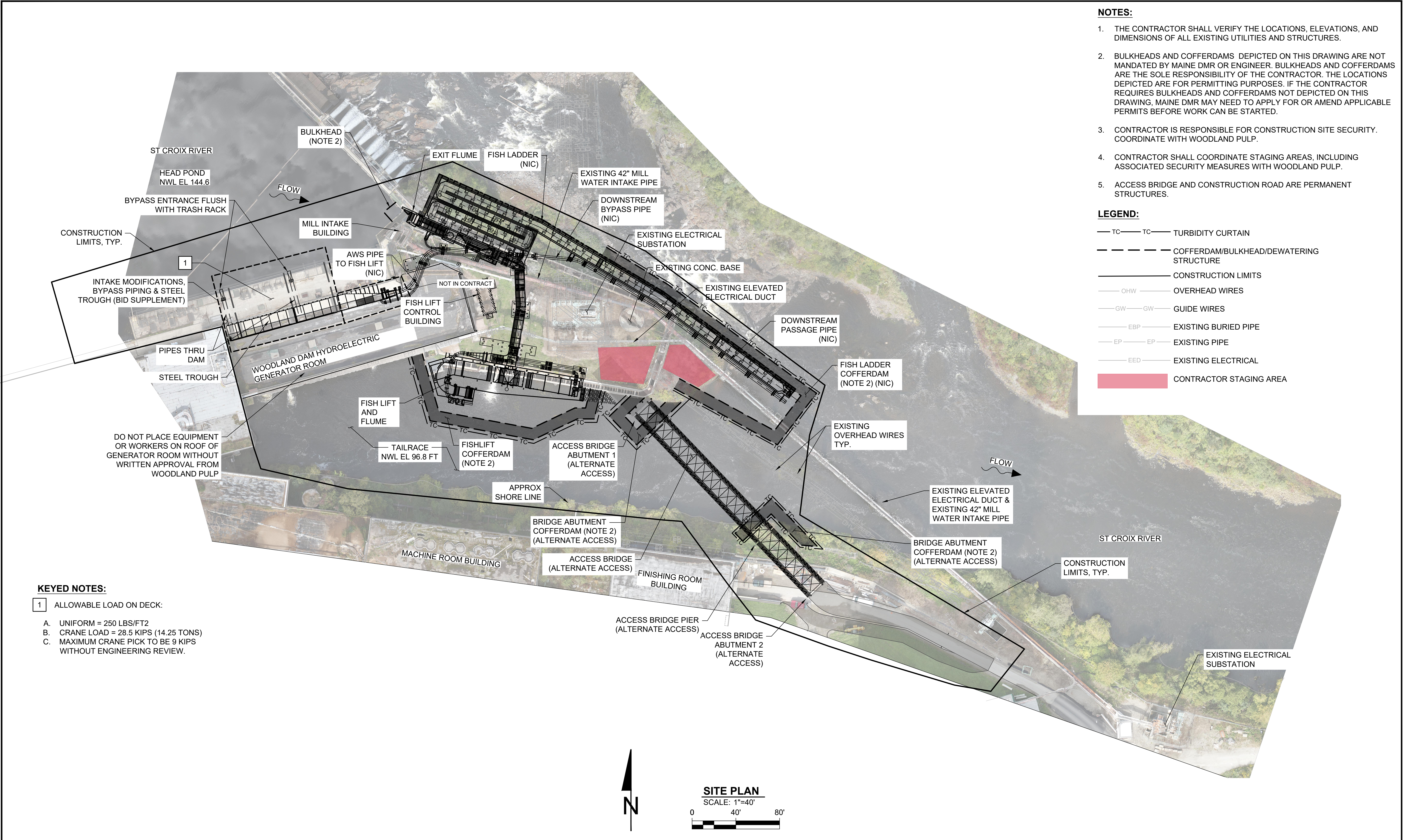
>50

V. DENSE

15-30

V. STIFF

HARD

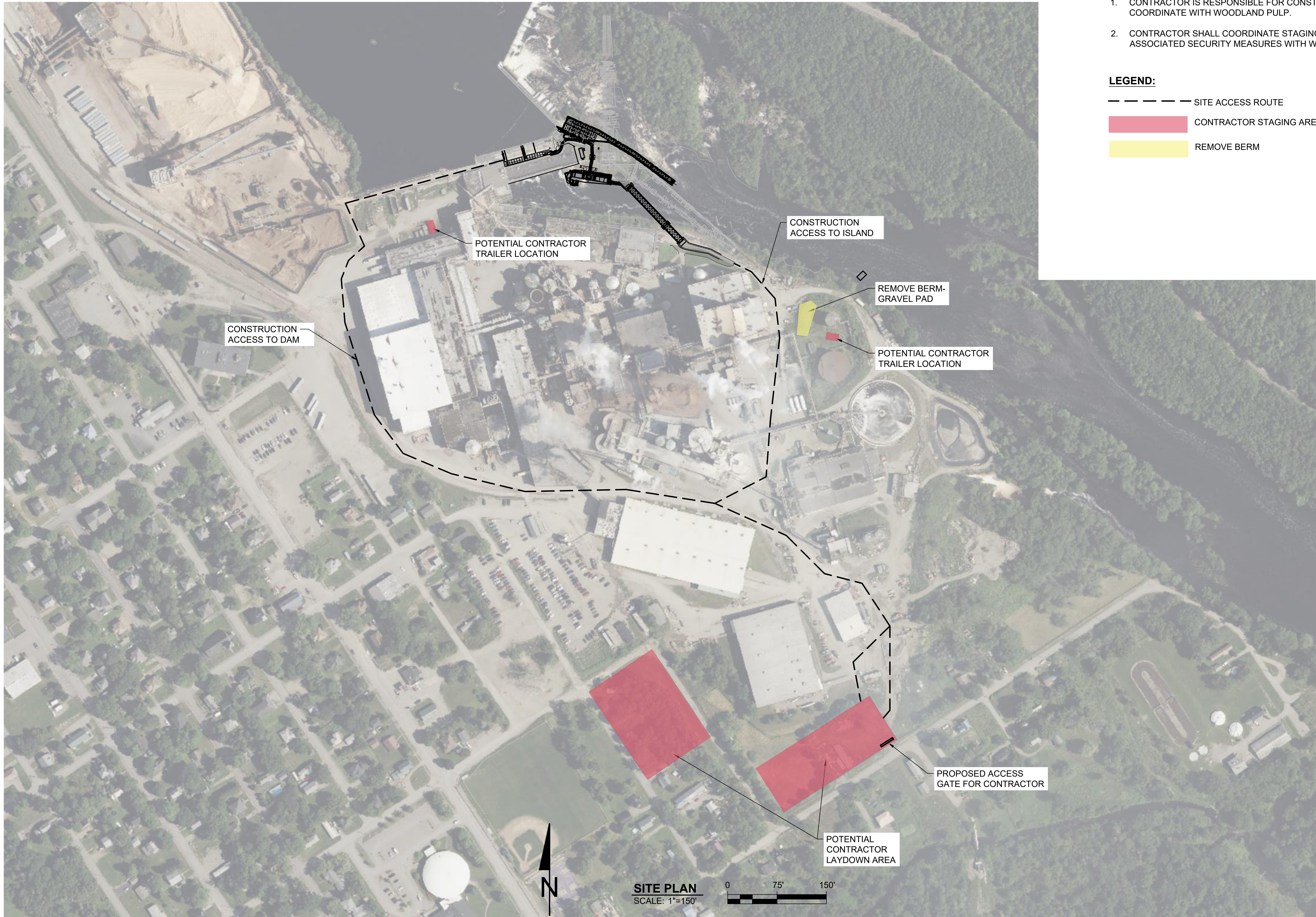


- NOTES:**
1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES AND STRUCTURES.
 2. BULKHEADS AND COFFERDAMS DEPICTED ON THIS DRAWING ARE NOT MANDATED BY MAINE DMR OR ENGINEER. BULKHEADS AND COFFERDAMS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE LOCATIONS DEPICTED ARE FOR PERMITTING PURPOSES. IF THE CONTRACTOR REQUIRES BULKHEADS AND COFFERDAMS NOT DEPICTED ON THIS DRAWING, MAINE DMR MAY NEED TO APPLY FOR OR AMEND APPLICABLE PERMITS BEFORE WORK CAN BE STARTED.
 3. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SECURITY. COORDINATE WITH WOODLAND PULP.
 4. CONTRACTOR SHALL COORDINATE STAGING AREAS, INCLUDING ASSOCIATED SECURITY MEASURES WITH WOODLAND PULP.
 5. ACCESS BRIDGE AND CONSTRUCTION ROAD ARE PERMANENT STRUCTURES.

- LEGEND:**
- TC TC TURBIDITY CURTAIN
 - COFFERDAM/BULKHEAD/DEWATERING STRUCTURE
 - CONSTRUCTION LIMITS
 - OHW OVERHEAD WIRES
 - GW GUIDE WIRES
 - EBP EXISTING BURIED PIPE
 - EP EXISTING PIPE
 - EED EXISTING ELECTRICAL
 - CONTRACTOR STAGING AREA

KEYED NOTES:

- 1 ALLOWABLE LOAD ON DECK:
- A. UNIFORM = 250 LBS/FT²
 - B. CRANE LOAD = 28.5 KIPS (14.25 TONS)
 - C. MAXIMUM CRANE PICK TO BE 9 KIPS WITHOUT ENGINEERING REVIEW.

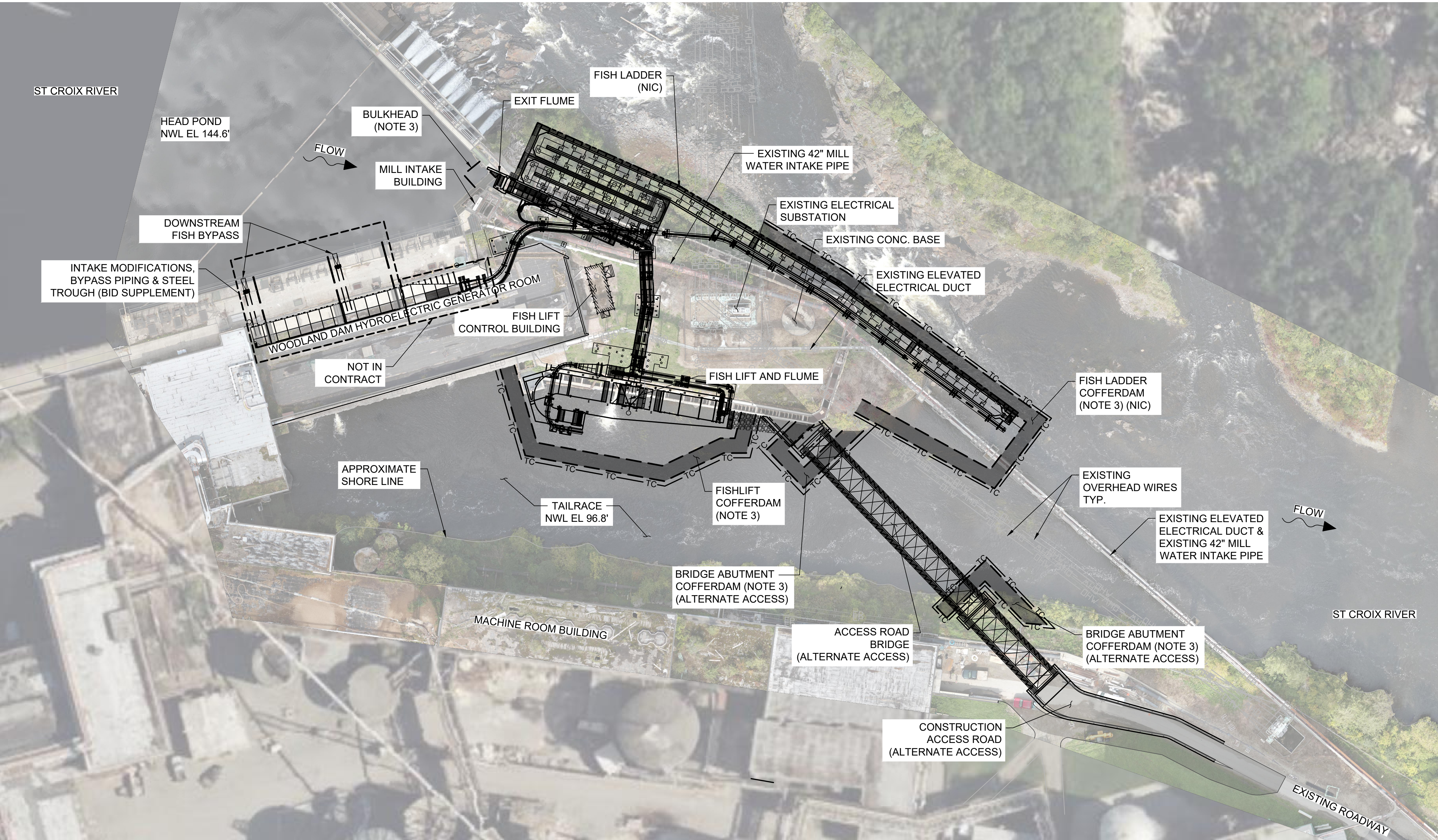


NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SECURITY. COORDINATE WITH WOODLAND PULP.
2. CONTRACTOR SHALL COORDINATE STAGING AREAS, INCLUDING ASSOCIATED SECURITY MEASURES WITH WOODLAND PULP.

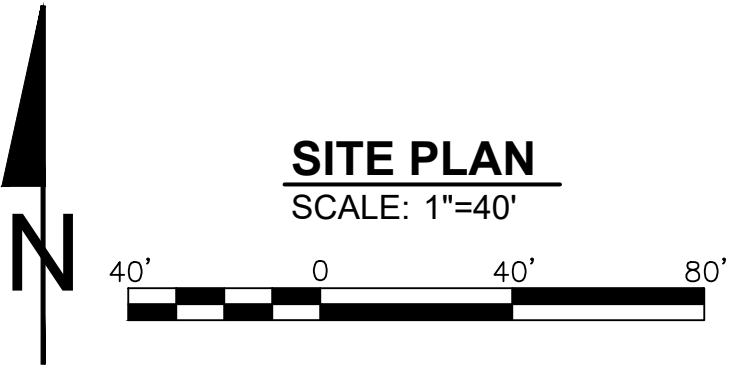
LEGEND:

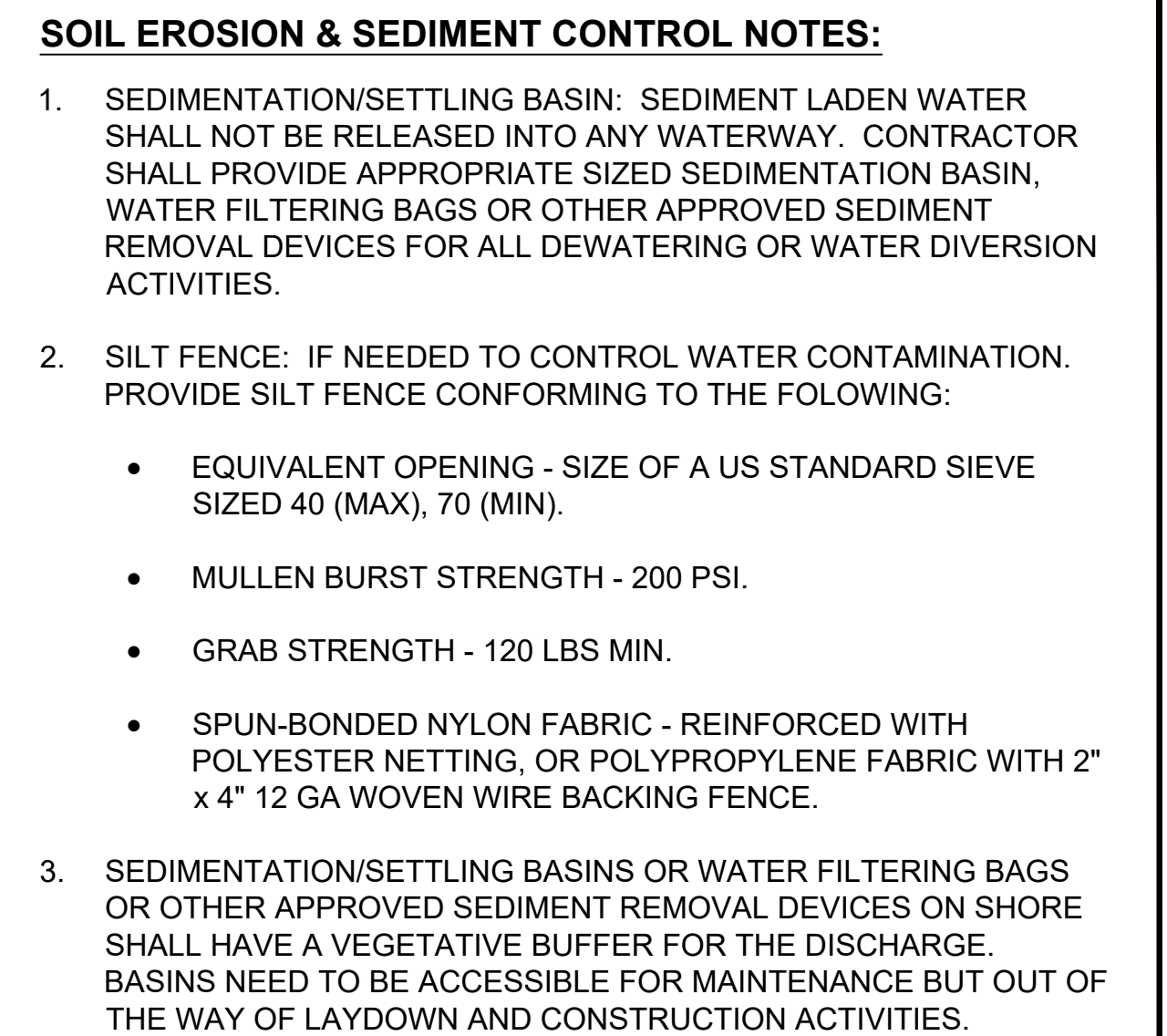
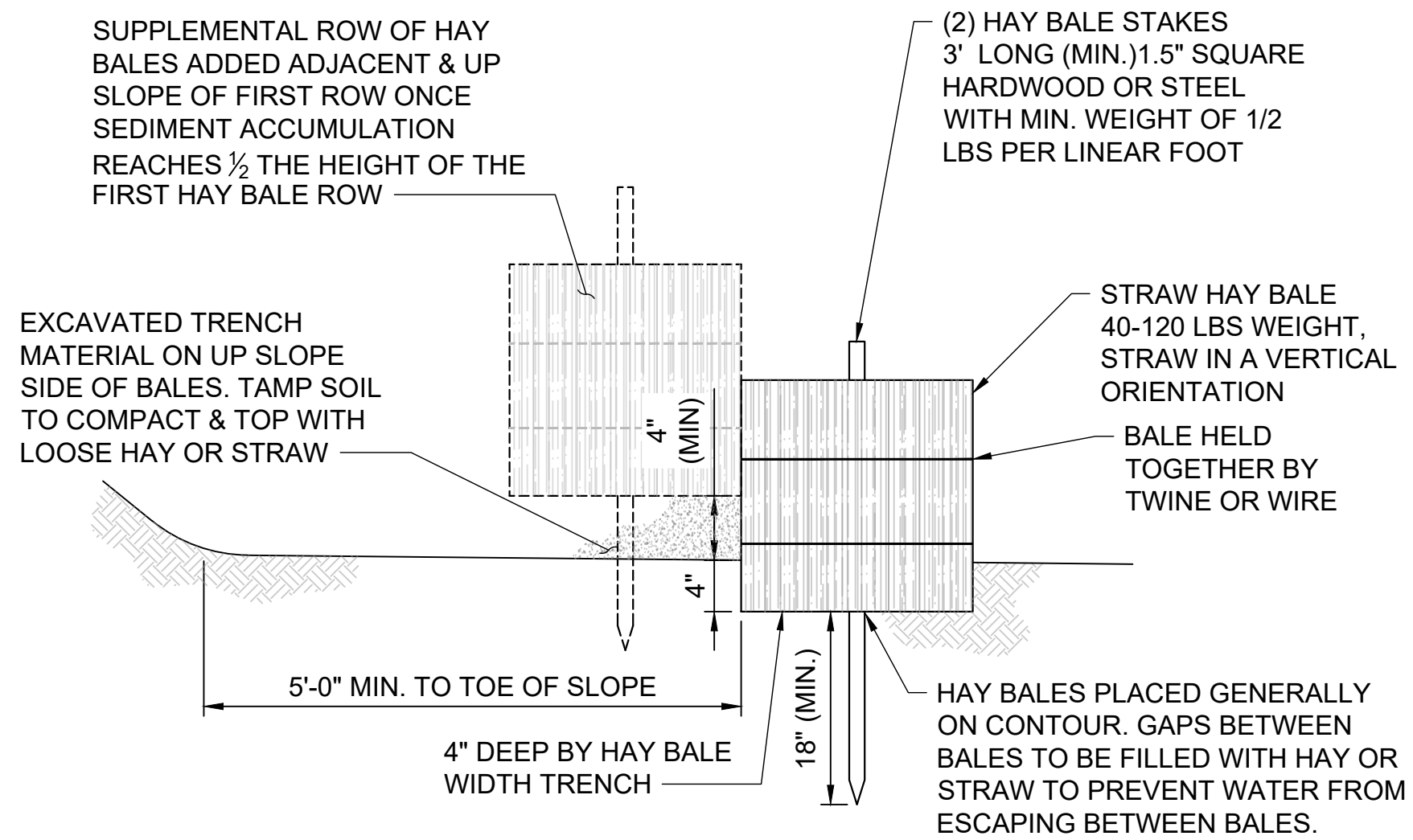
- SITE ACCESS ROUTE
- CONTRACTOR STAGING AREA
- REMOVE BERM



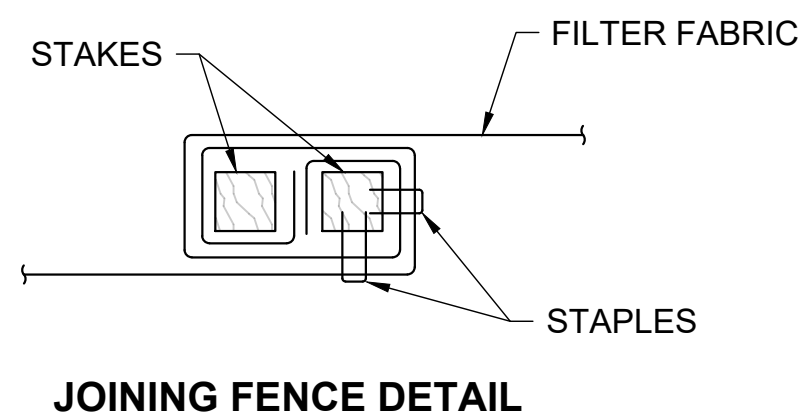
- NOTES:**
1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES AND STRUCTURES.
 2. SEE DRAWING G-131 FOR TYPICAL EROSION CONTROL AND DEWATERING DETAILS.
 3. BULKHEADS AND COFFERDAMS DEPICTED ON THIS DRAWING ARE NOT MANDATED BY THE MAINE DMR OR ENGINEER. BULKHEADS AND COFFERDAMS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 4. AREAS WHERE PERMANENT DISTURBANCE IS NOT AUTHORIZED SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND ELEVATION, WHICH UNDER NO CIRCUMSTANCE SHALL BE HIGHER THAN THE PRE-CONSTRUCTION ELEVATION. ORIGINAL CONDITIONS MEANS CAREFUL PROTECTION AND/OR REMOVAL OF EXISTING SOIL AND VEGETATION, AND REPLACEMENT BACK TO THE ORIGINAL LOCATIONS SUCH THAT THE ORIGINAL SOIL LAYERING AND VEGETATION SCHEMES ARE APPROXIMATELY THE SAME, UNLESS OTHERWISE AUTHORIZED.
 5. VERTICAL DATUM IS BASED ON NAVD88
 6. HORIZONTAL DATUM IS THE STATE PLANE COORDINATE SYSTEM NAD83 MAINE EAST ZONE.

- LEGEND:**
- SF — SF — SILT FENCE
 - TC — TC — TURBIDITY CURTAIN
 - COFFERDAM/BULKHEAD/DEWATERING STRUCTURE
 - X — X — EXISTING FENCE
 - OHW — OHW — OVERHEAD WIRES
 - GW — GW — GUIDE WIRES
 - EBP — EBP — EXISTING BURIED PIPE
 - EP — EP — EXISTING PIPE
 - EED — EED — EXISTING ELECTRICAL





3 DEWATERING/SETTLING BASIN
- SCALE: NTS




1. PROVIDE SILT FENCE ON DOWNSLOPE SIDE OF SOIL DISTURBANCES OR ALL STOCKPILES UNTIL PERMANENT VEGETATION IS ESTABLISHED.
2. FILTER FABRIC FENCE MUST BE INSTALLED AT EXISTING LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION MUST BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.
3. SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH $\frac{1}{3}$ THE ABOVE GROUND HEIGHT OF THE FENCE.
4. SILT FENCE TO BE INSPECTED AFTER EACH RUNOFF EVENT AND AT LEAST WEEKLY.

4 SILT FENCE
SCALE: NTS



9/3/2025	ISSUED FOR BID	M. GRAESER
REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING



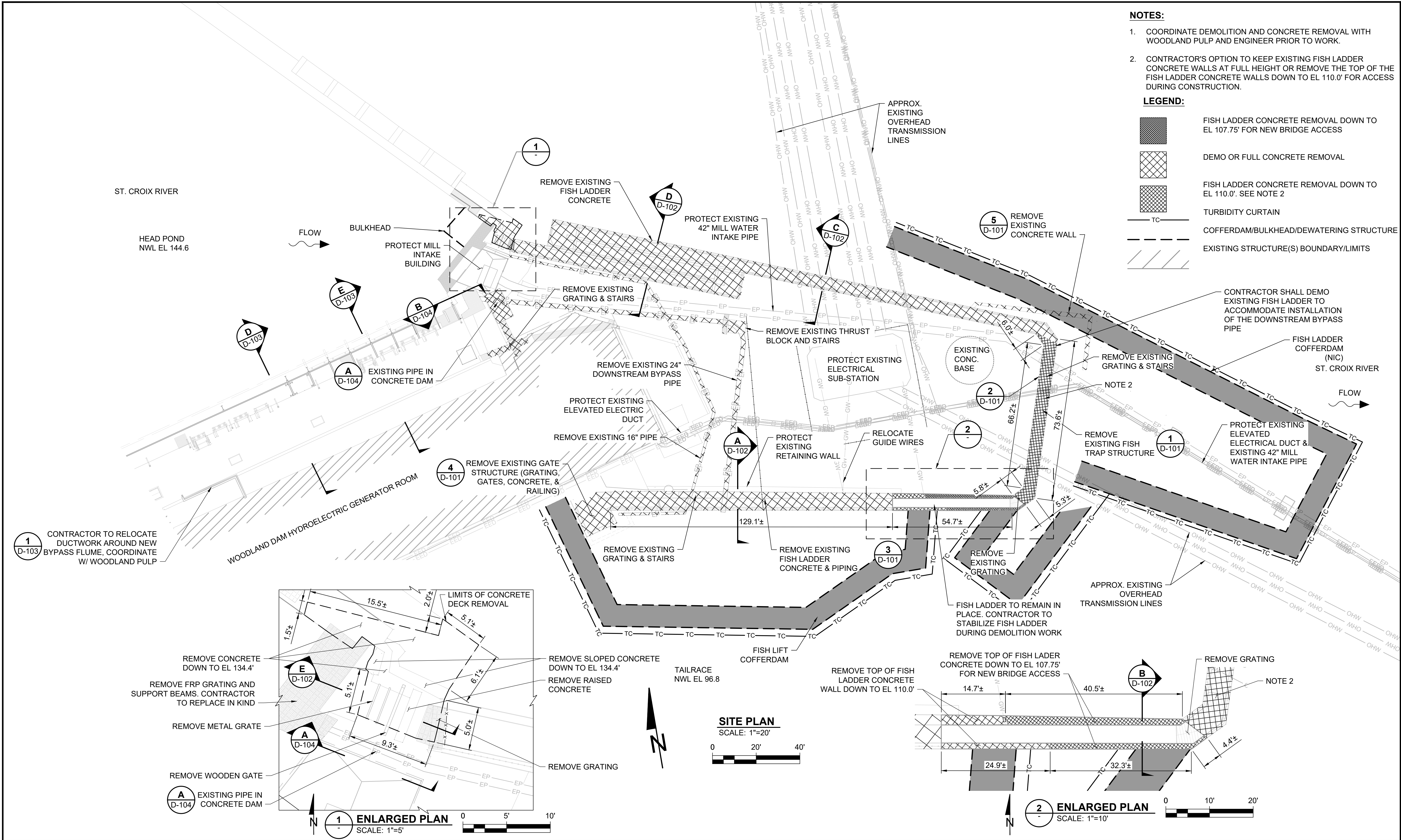
IF NOT ONE INCH ON THIS
SHEET, ADJUST SCALES
ACCORDINGLY

WOODLAND FISH LIFT PASSAGE DESIGN

MAINE DEPARTMENT OF MARINE
RESOURCES

EROSION CONTROL & DEWATERING DETAILS

PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET:	15 OF 240
<div style="display: flex; justify-content: space-between; align-items: center;"> <div>DRAWING:</div> <div>G-131</div> </div>	



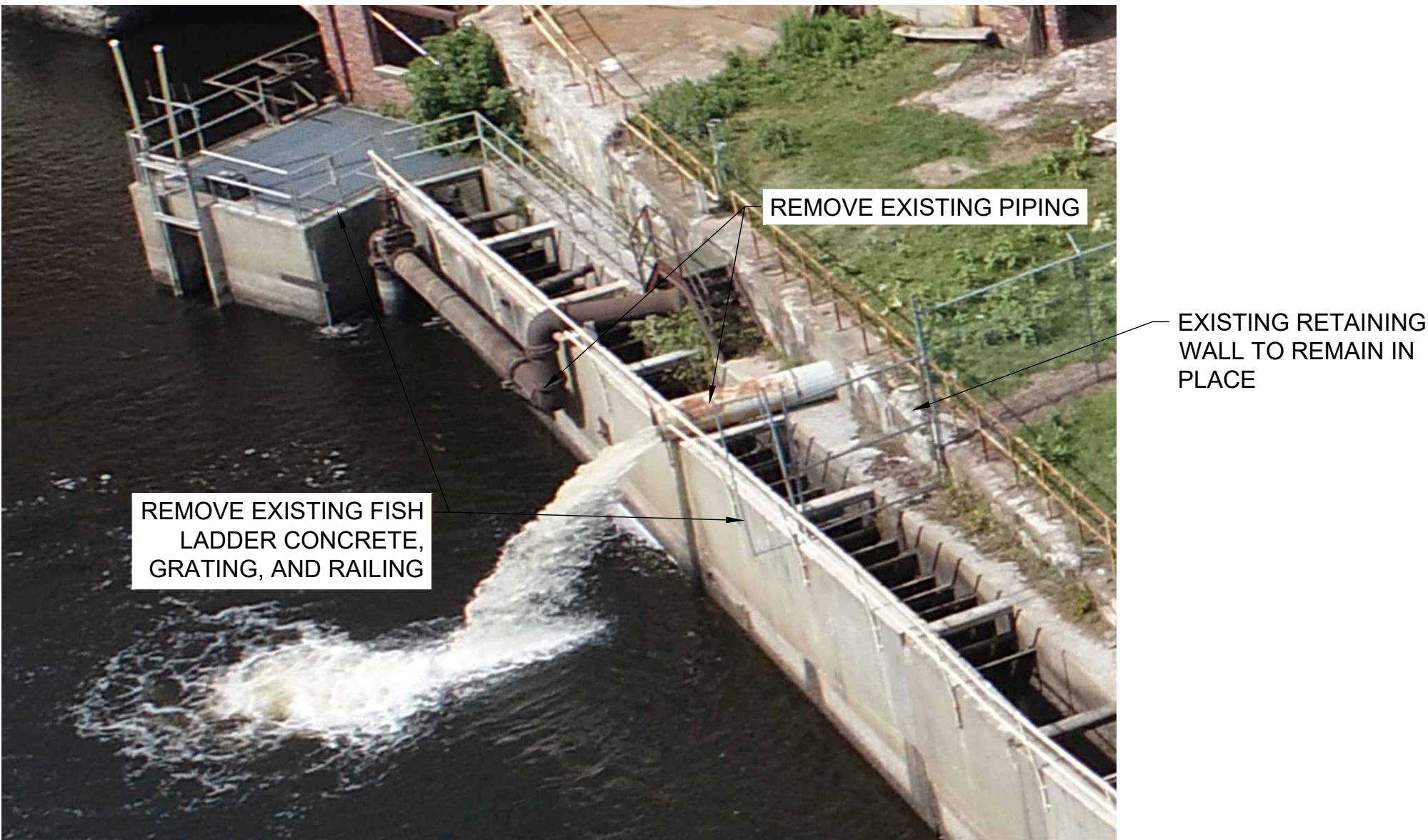
NOTE:
1. COORDINATE DEMOLITION AND CONCRETE REMOVAL WITH WOODLAND PULP AND ENGINEER PRIOR TO WORK.



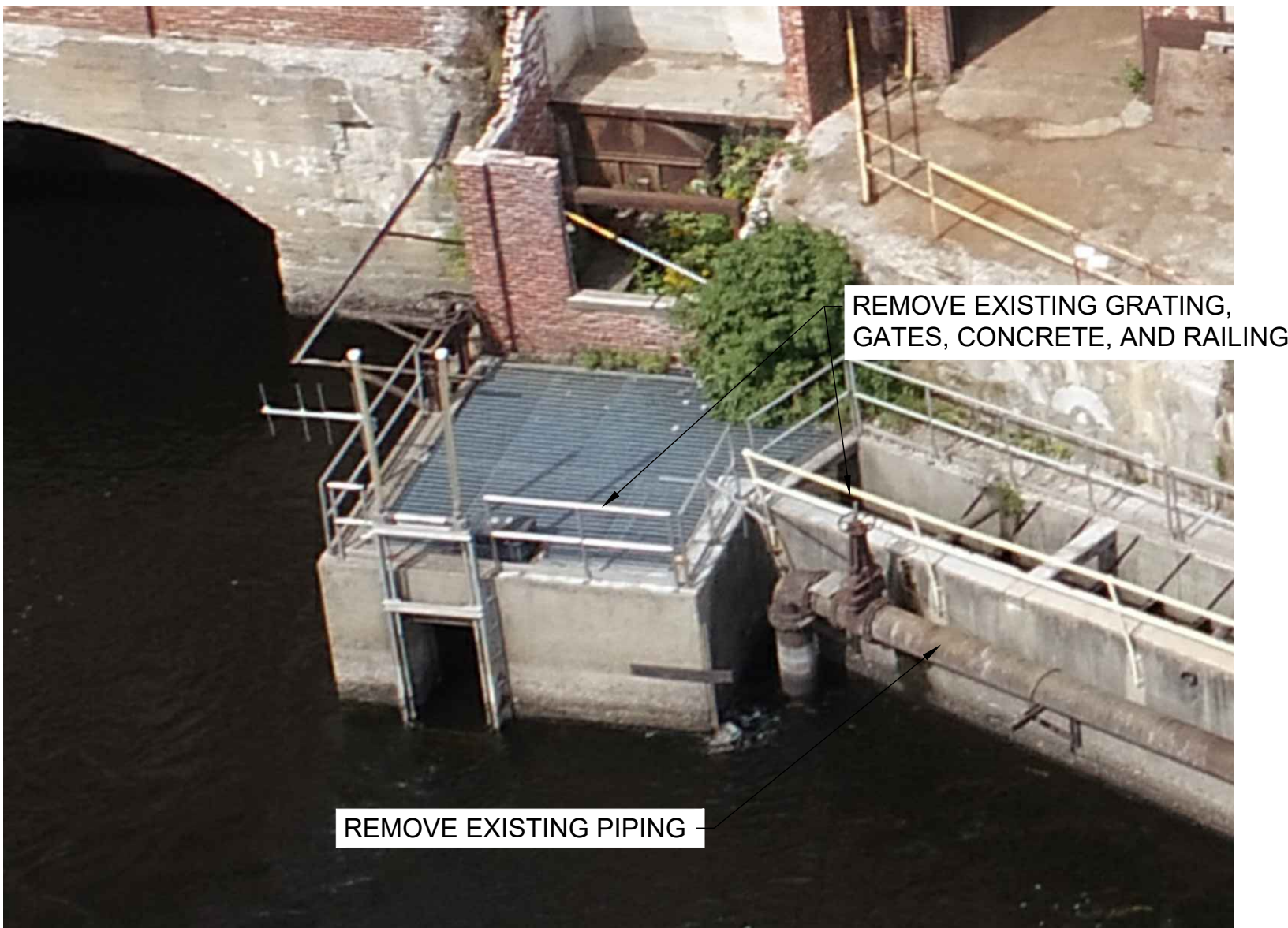
1 EXISTING FISH TRAP STRUCTURE
D-100 SCALE: NTS



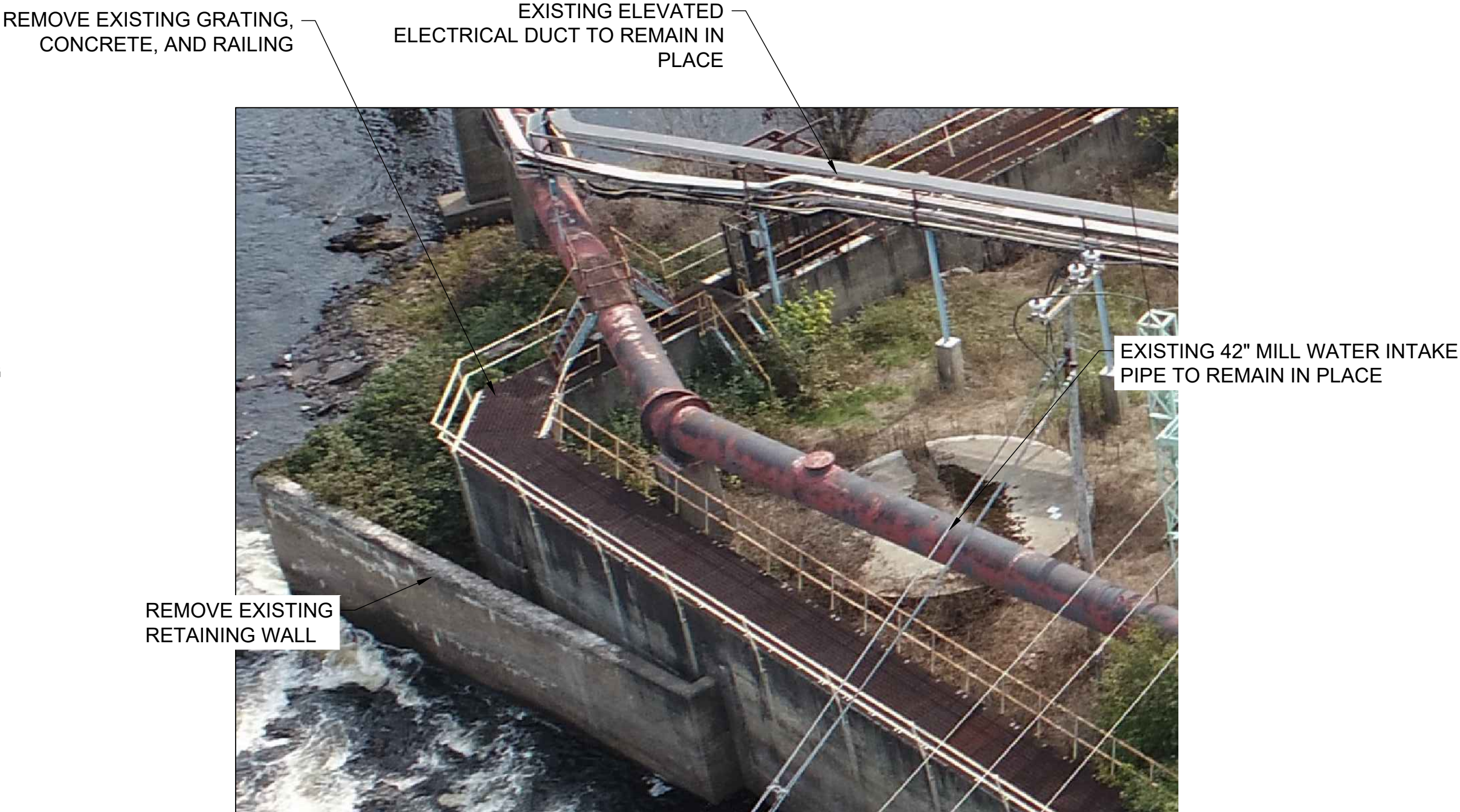
2 EXISTING FISH LADDER AND GRATING
D-100 SCALE: NTS



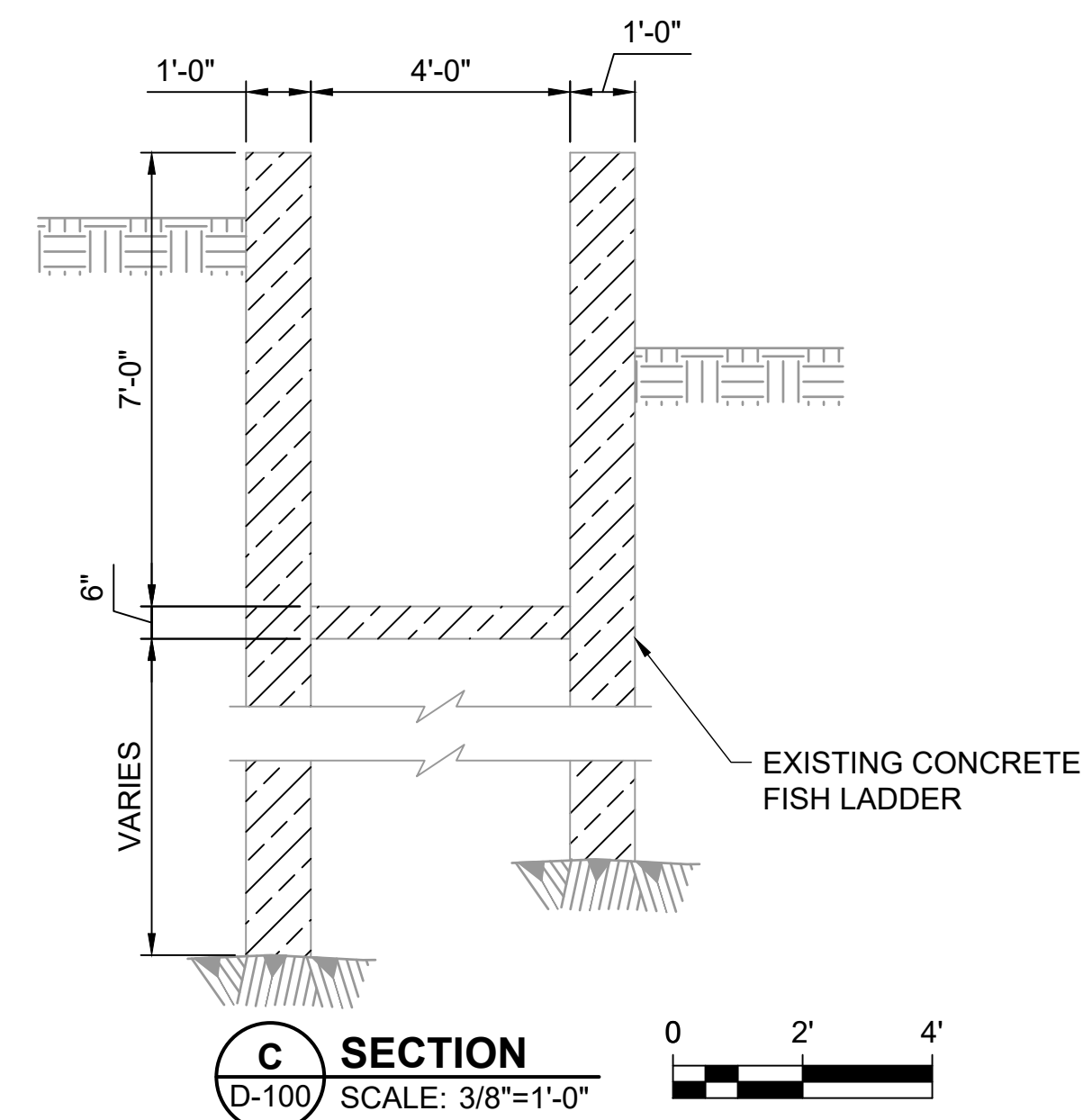
3 EXISTING FISH LADDER AND PIPING
D-100 SCALE: NTS



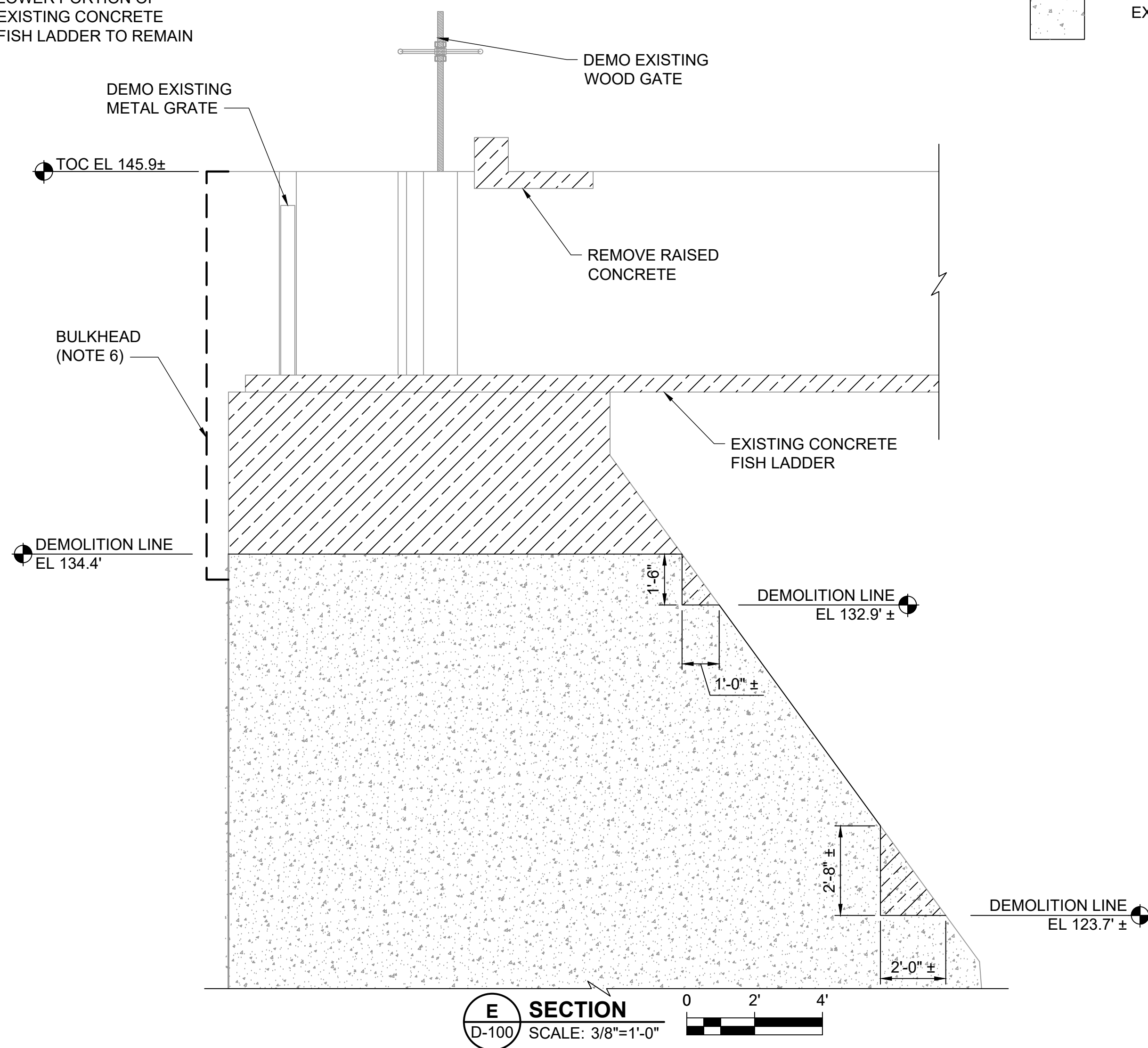
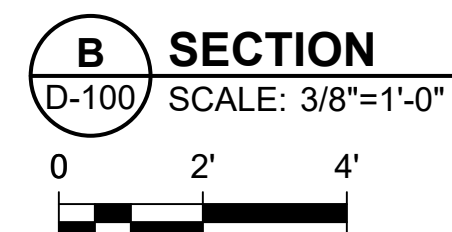
4 EXISTING GATE STRUCTURE
D-100 SCALE: NTS



5 EXISTING RETAINING WALL
D-100 SCALE: NTS




- NOTES:**
1. COORDINATE DEMOLITION AND CONCRETE REMOVAL WITH WOODLAND PULP AND ENGINEER PRIOR TO WORK.
 2. REFER TO RECORD DRAWINGS FOR EXISTING STRUCTURE ELEVATIONS AND DIMENSIONS
 3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITION DIMENSIONS PRIOR TO CONCRETE REMOVAL.
 4. REMOVAL OF EXISTING CONCRETE SHOULD BE DOWN TO BEDROCK, UNLESS NOTED OTHERWISE.
 5. CONTRACTOR SHALL DESIGN POST-TENSION ROCK ANCHORS OR OTHER MEASURES TO KEEP EXISTING RETAINING WALL IN PLACE DURING ROCK EXCAVATION FOR THE NEW FISH LIFT FLUME.
 6. BULKHEADS DEPICTED ON THIS DRAWING ARE NOT MANDATED BY THE MAINE DMR OR ENGINEER. BULKHEADS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



ISSUED FOR BID
NOT FOR CONSTRUCTION
SEPTEMBER 3, 2025

9/3/2025	ISSUED FOR BID	M. GRAESER
REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING



IF NOT ONE INCH ON THIS
SHEET, ADJUST SCALES
ACCORDINGLY

WOODLAND FISH LIFT PASSAGE DESIGN

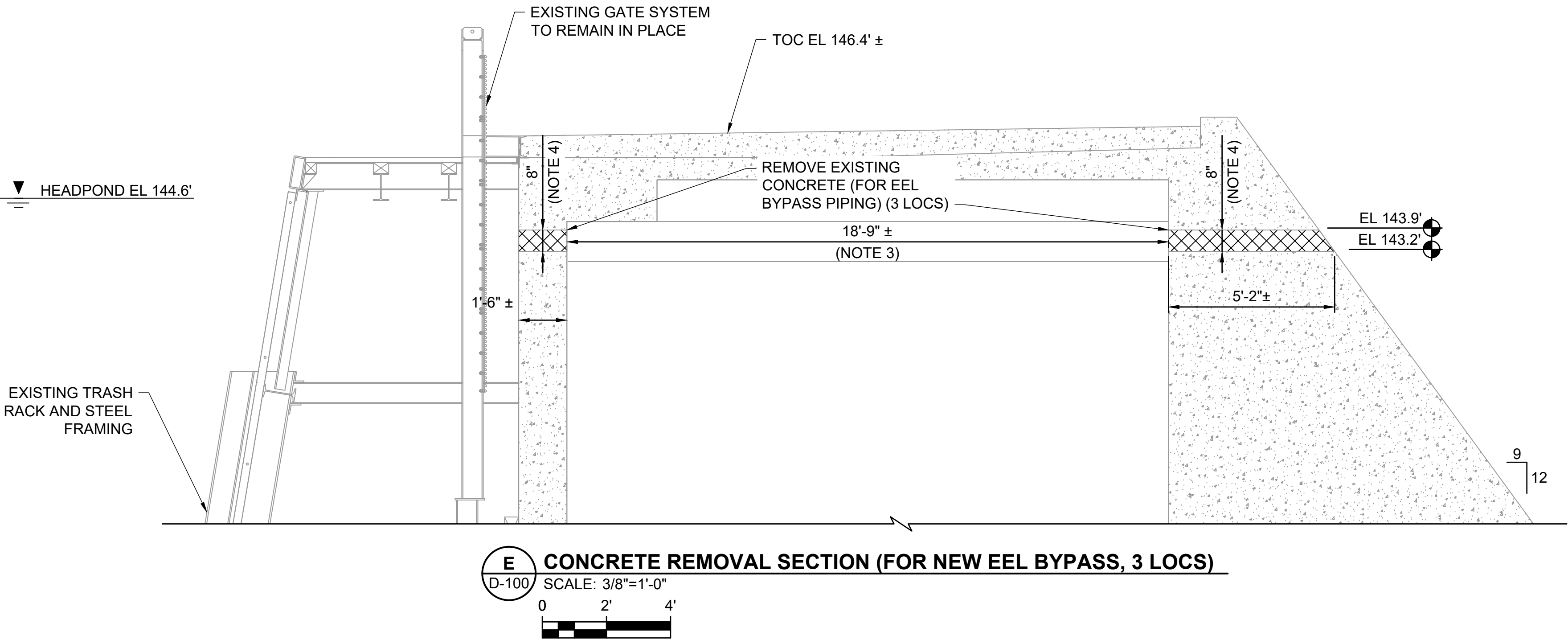
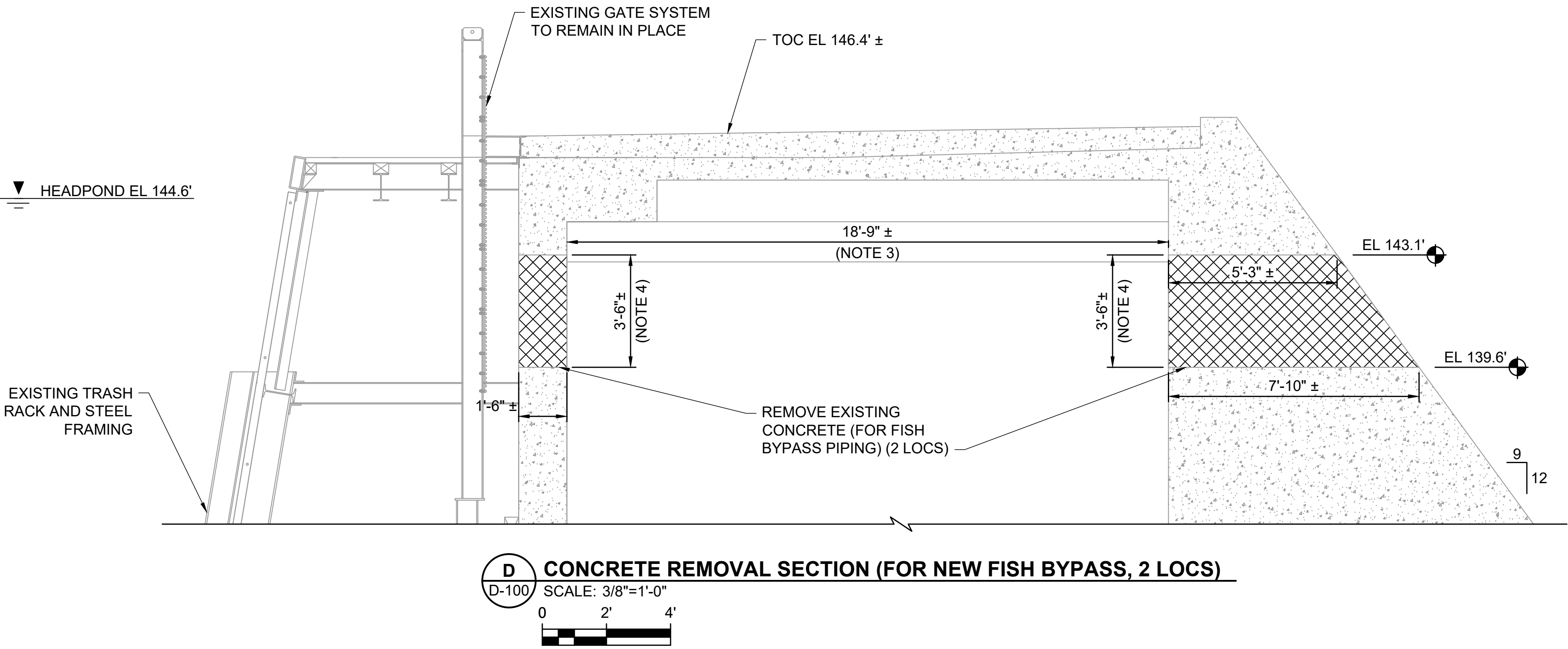
MAINE DEPARTMENT OF MARINE
RESOURCES

CONCRETE REMOVAL SECTIONS

PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET:	18 OF 240
DRAWING: D-102	

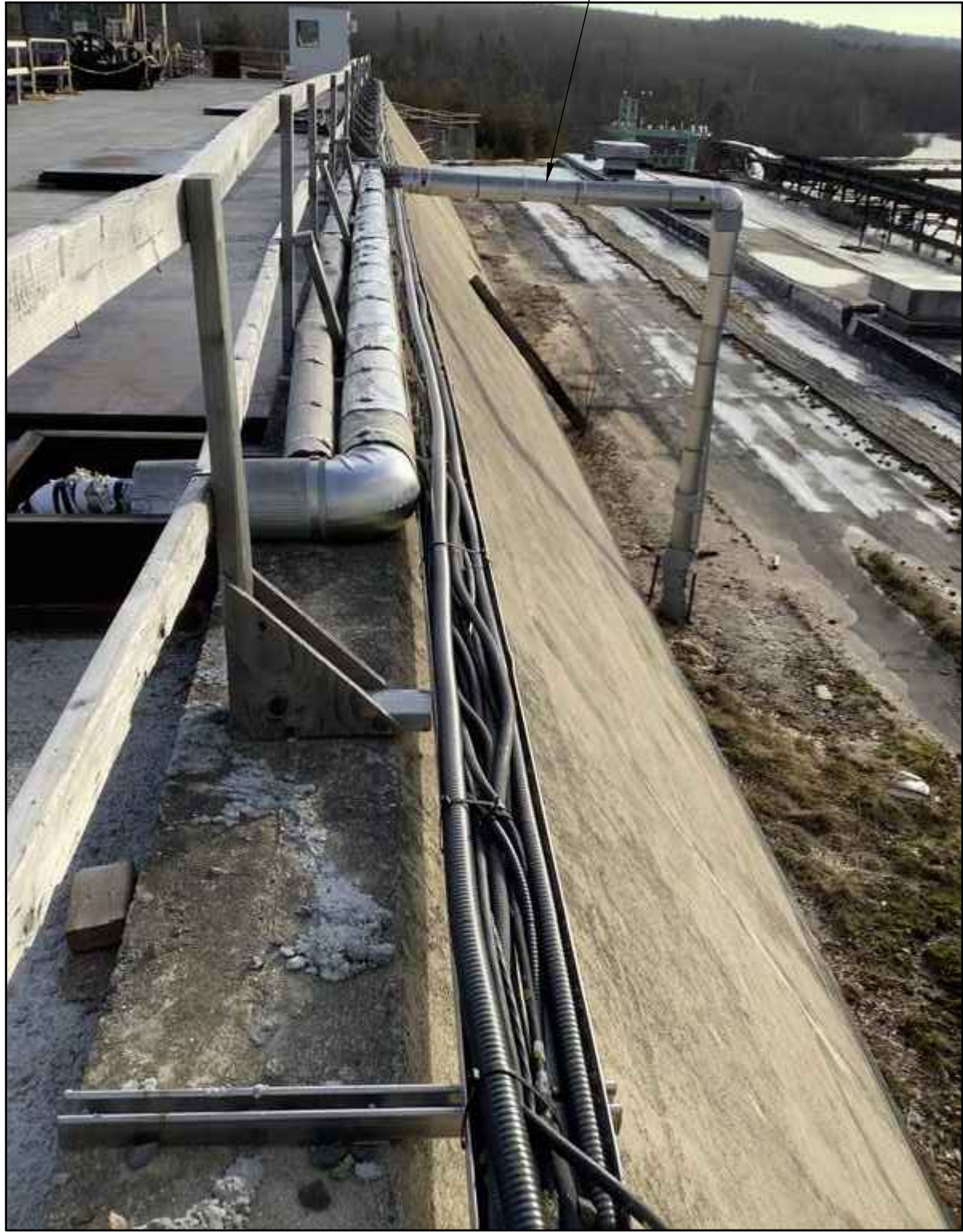
LEGEND:

CONCRETE REMOVAL



- CONCRETE REMOVAL NOTES:**
- SUBMIT PLAN AND COORDINATE DEMOLITION AND CONCRETE REMOVAL WITH WOODLAND PULP AND ENGINEER PRIOR TO WORK.
 - REFER TO RECORD DRAWINGS FOR EXISTING STRUCTURE ELEVATION, DIMENSIONS, AND MEMBER SIZES.
 - CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITION DIMENSIONS PRIOR TO CONCRETE REMOVAL.
 - CONCRETE CORE/REMOVAL SIZE SHOWN IS APPROXIMATE. CONCRETE REMOVAL SHALL BE AS REQUIRED TO INSTALL NEW PIPE, LINK SEAL, AND GROUT.

CONTRACTOR TO RELOCATE DUCT WORK AROUND BYPASS FLUME. COORDINATE W/ WOODLAND PULP

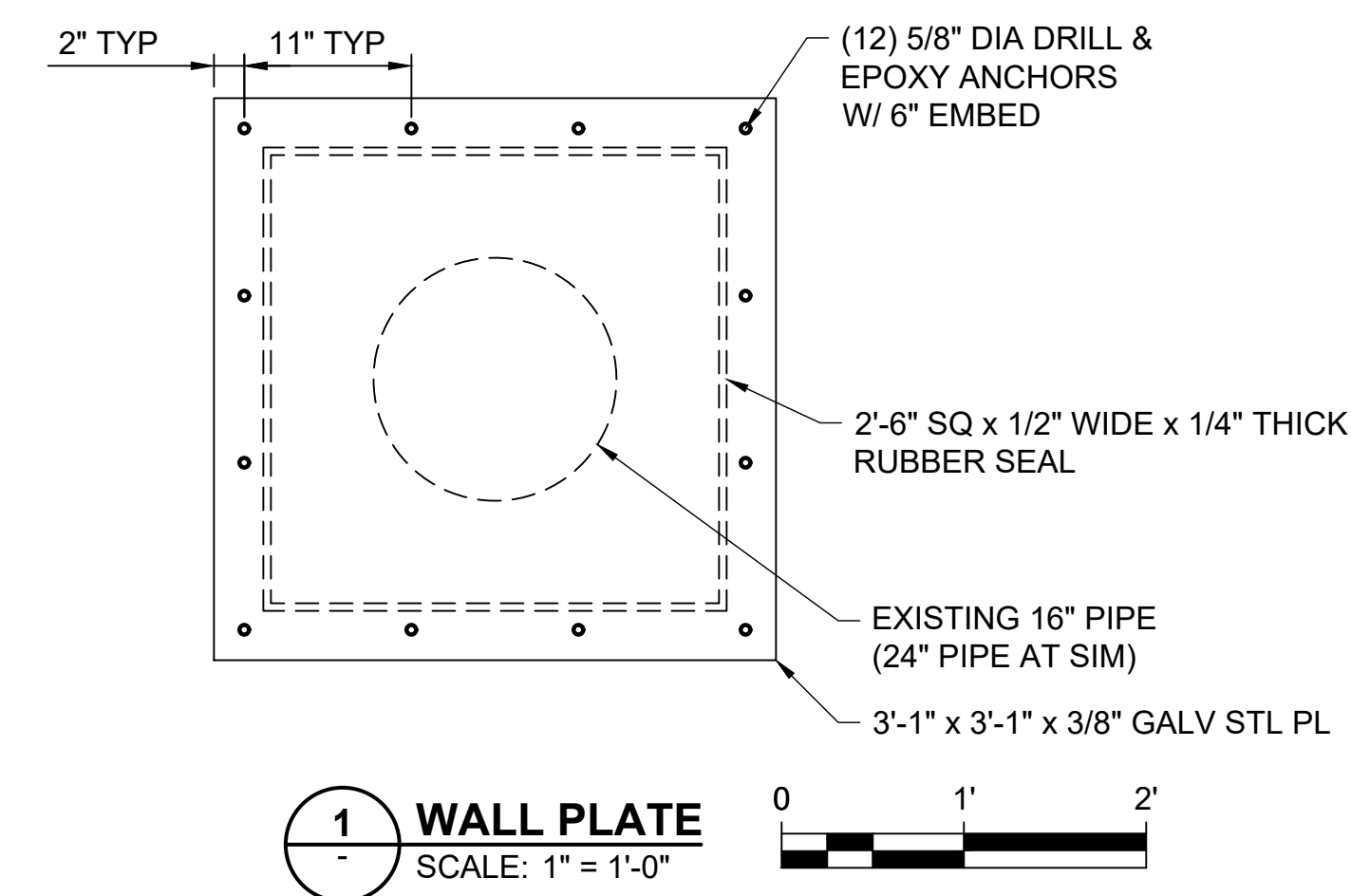
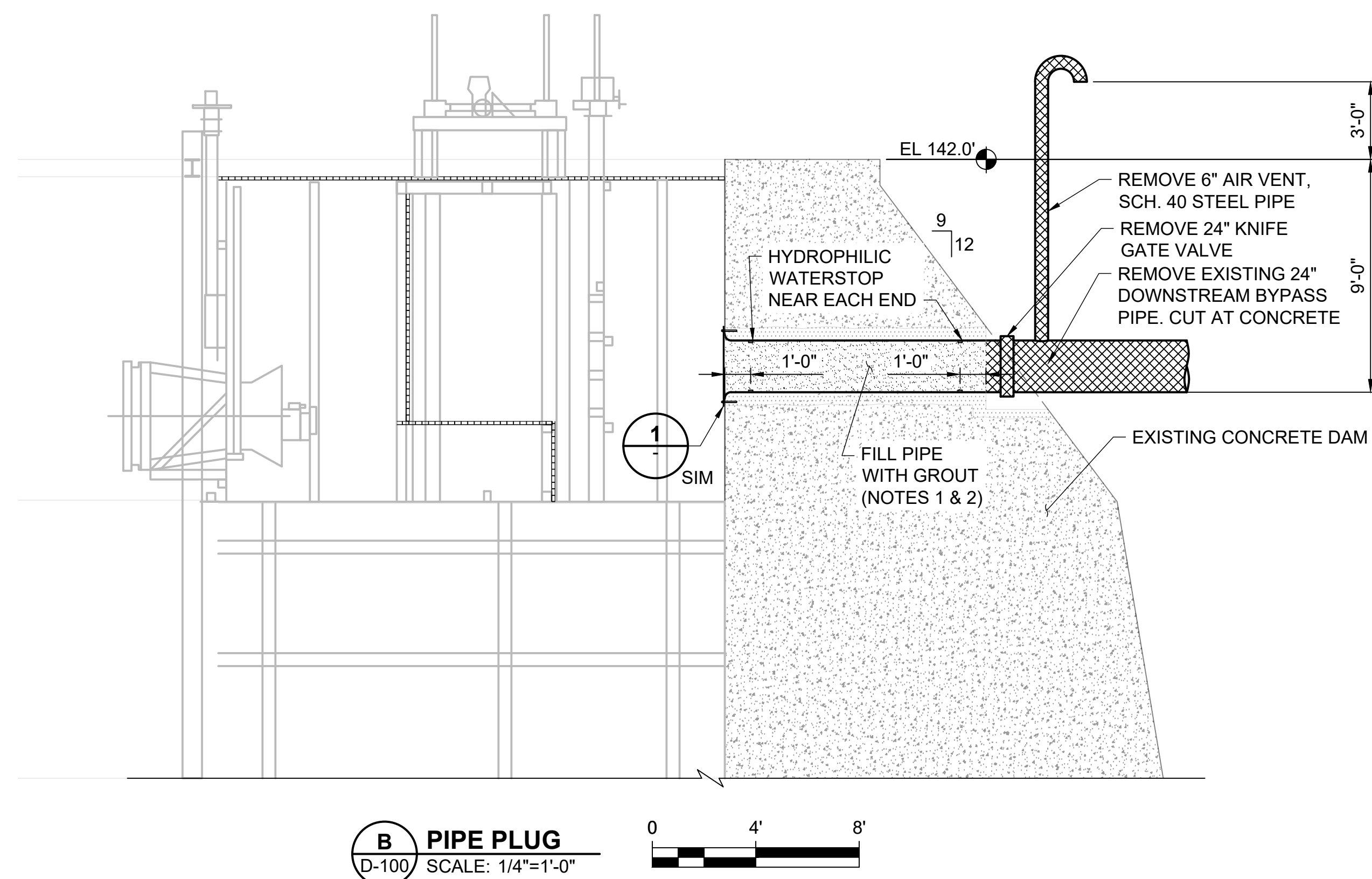
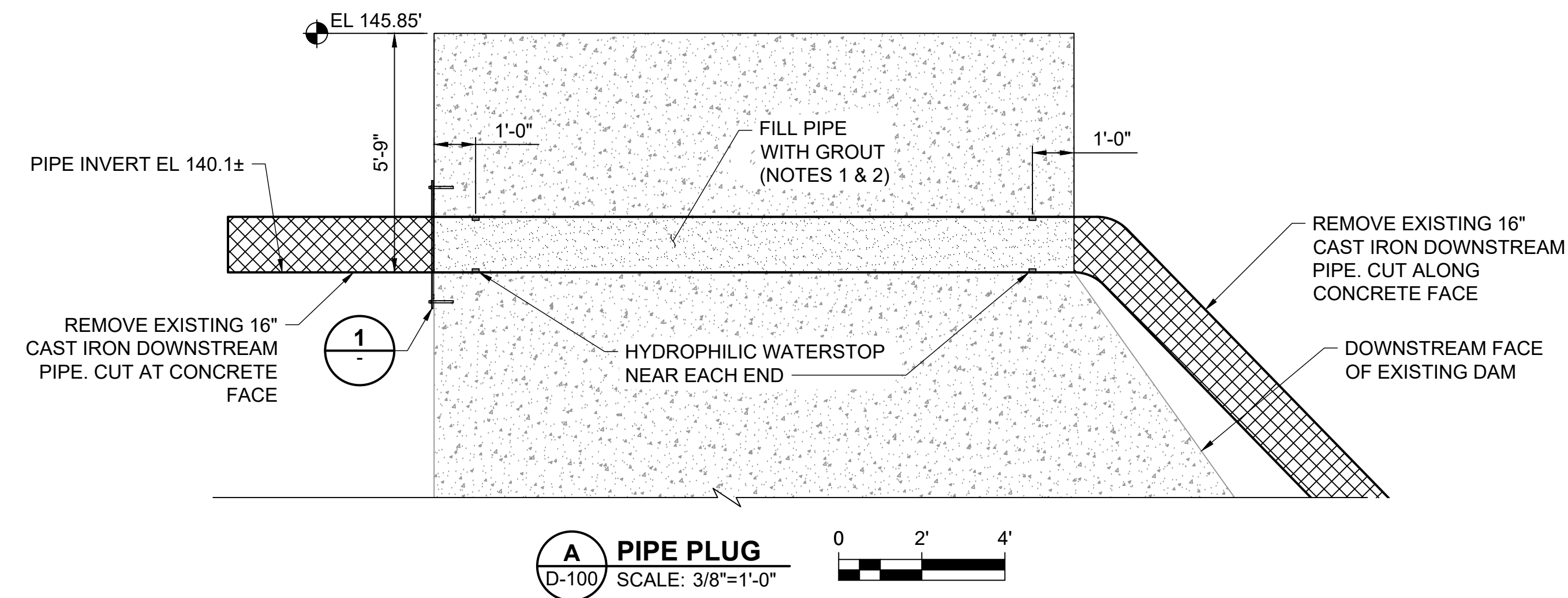
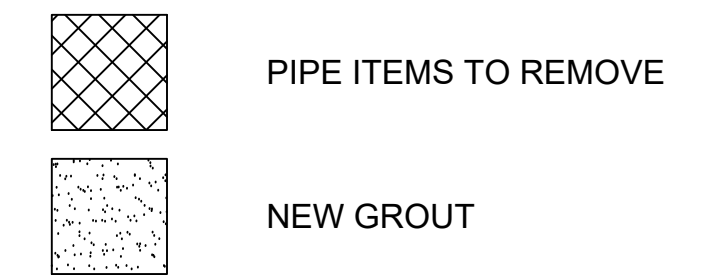


1 EXISTING DUCTWORK AT BACK OF DAM
D-100 SCALE: N.T.S.

- NOTES:**
- SUBMIT PLAN AND COORDINATE RELOCATION AND RECONNECTION OF PIPE AND DUCTWORK WITH WOODLAND PULP AND ENGINEER PRIOR TO WORK.
 - CONTRACTOR MAY ASSUME PIPE DIAMETER IS UP TO 6 INCHES AND HAS INSULATION.
 - PIPE SLEEVE TO BE EXTENDED AND/OR RESTORED AFTER RELOCATION AS NEEDED.

NOTES:


1. FILL THE PIPE VIA PRESSURE GROUT.
2. INCLUDE AIR VENT HOLES/PORTS TO PREVENT AIR POCKETS.
3. ALL ELEVATIONS SHOWN ARE APPROXIMATE.



ISSUED FOR BID
NOT FOR CONSTRUCTION
SEPTEMBER 3, 2025

9/3/2025	ISSUED FOR BID	M. GRAESER
REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING



IF NOT ONE INCH ON THIS
SHEET, ADJUST SCALES
ACCORDINGLY

WOODLAND FISH LIFT PASSAGE DESIGN

MAINE DEPARTMENT OF MARINE
RESOURCES

PIPE PLUGS AT DAM

PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET:	20 OF 240
DRAWING: D-104	