



# WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

## SKAGIT WLA, MILLTOWN ISLAND UNIT RESTORATION CONTRACT # ST:R206:2021-1

PROPERTY INFORMATION:	
ADDRESS:	MILLTOWN ISLAND WASHINGTON 98273
COUNTY:	SKAGIT
PARCEL #:	P17495, P17496, P17502, P17504, P17520, P17531, P17532, P17534 48-316889
LAT:	-122.350552
LONG:	33N
TOWNSHIP:	4E
RANGE:	30 & 31
SECTION:	

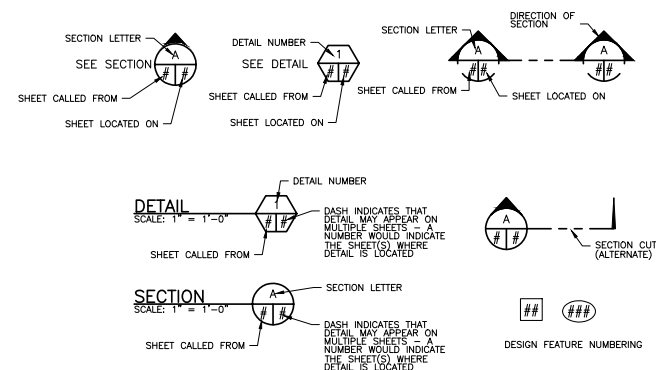
**SURVEY DATUM**  
 HORIZONTAL: NAD 1983 US STATE PLANE WASHINGTON NORTH ZONE  
 VERTICAL: NAVD88  
 UNITS: US FEET

### INDEX

#### SHEET NO.

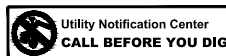
1. COVER SHEET
2. GENERAL NOTES
3. STATE AND VICINITY MAP
4. EXISTING SITE MAP
5. ACCESS-STAGING-TESC
6. OVERVIEW SITE PLAN
7. SITE PLAN 1
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10. SITE PLAN 4
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12. PLANTING PLAN
13. PROFILES AND SECTIONS
14. DETAILS
15. TESC DETAILS

### SHEET SYMBOLS



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FOR  
CONSTRUCTION

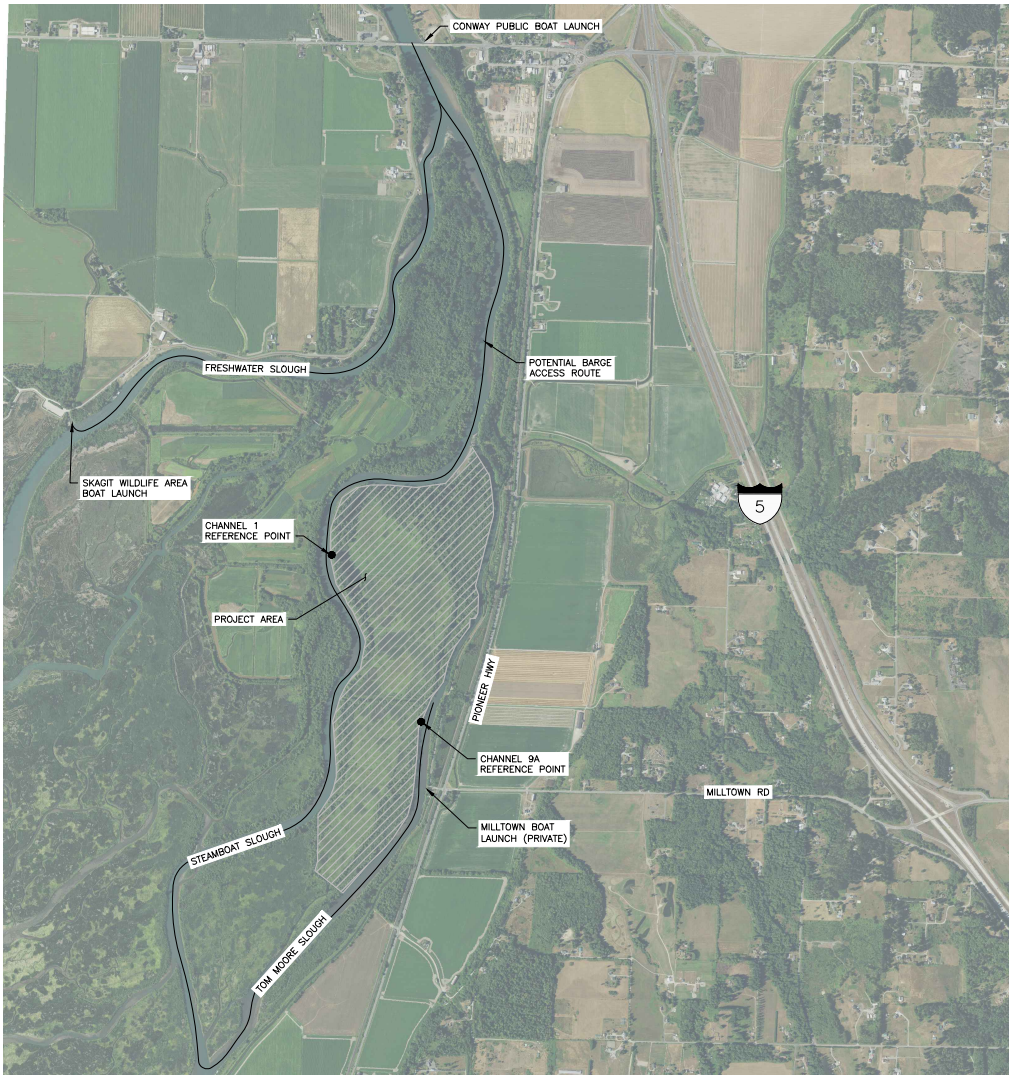
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PROJECT NO. ST:R206:2021-1	
SHEET	OF
1	15

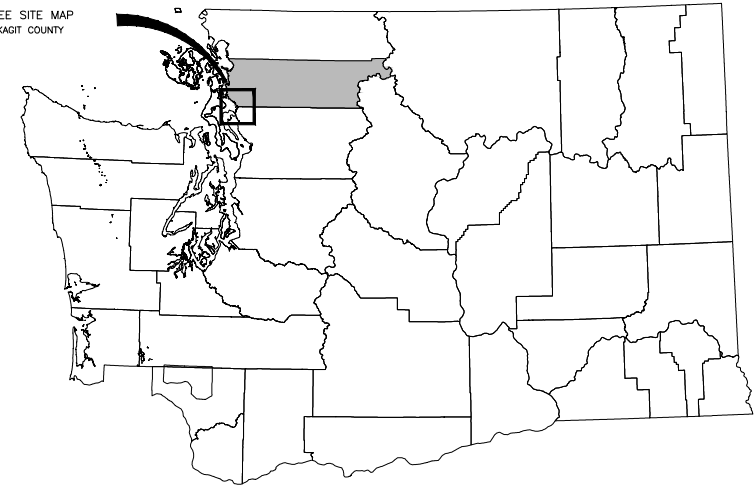
<b>REFERENCE:</b>	<b>LOCATION:</b> Milltown Island	<b>PROPOSED PROJECT:</b> Milltown Island Unit Restoration
<b>APPLICANT:</b> Washington Department of Fish and Wildlife (WDFW)	<b>LAT/LONG:</b> 48.3118° N, 122.3521° W	<b>IN:</b> Skagit River
<b>ADJACENT PROPERTY OWNERS:</b> 1. State Department of Game	<b>PAGE 1 OF 15</b> <b>DATE:</b> 09/01/2021	<b>NEAR/AT:</b> Milltown <b>COUNTY:</b> Skagit <b>STATE:</b> WA





SITE ACCESS MAP

SEE SITE MAP  
SKAGIT COUNTY



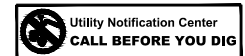
WASHINGTON

VICINITY MAP



BARGE LAUNCH POINTS		
BARGE LAUNCH	DISTANCE FROM CHANNEL 1 REFERENCE POINT (MILES)	DISTANCE FROM CHANNEL 9A REFERENCE POINT (MILES)
MILLTOWN BOAT LAUNCH	3.0	0.2
CONWAY BOAT LAUNCH	2.0	5.0
SKAGIT WILDLIFE AREA BOAT LAUNCH	3.6	6.7

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WASHINGTON DEPARTMENT OF  
FISH & WILDLIFE

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CONSTRUCTION REVIEW ONLY

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED BY DE/LE  
CHECKED BY ND  
DRAWN BY LE/JC  
DATE JUNE 2021

SKAGIT WLA, MILLTOWN ISLAND UNIT

PROJECT NO.  
ST:R206:2021-1

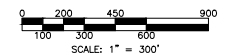
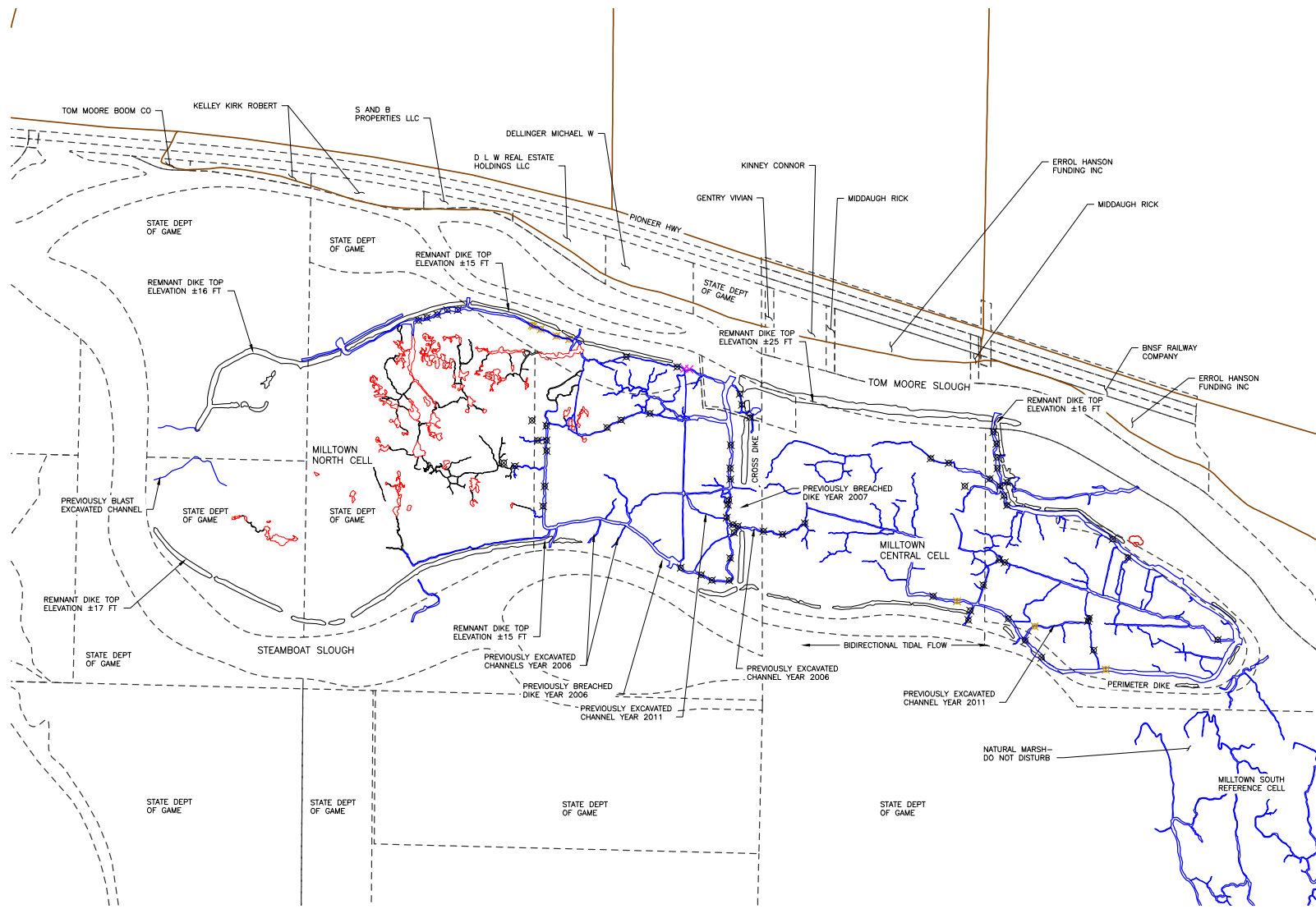
RESTORATION

GO.3

STATE AND VICINITY MAP

SHEET	OF
3	15

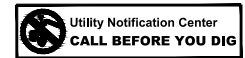
Reference Number:  
Applicant Name: WDFW  
Proposed Project: Milltown Island Restoration  
Location: Milltown Island  
Sheet 3 of 15  
Date: 9/1/2021



- LEGEND**
- EXISTING FEATURES
  - BEAVER DAM
  - OLD DAM
  - 2FT CULVERT
  - ROADS
  - LEVEE TOP BOUNDARY
  - PARCELS
  - EXISTING TIDE CHANNELS
  - EXISTING BEAVER CHANNELS
  - EXISTING PONDS

- NOTES:**
1. EXISTING LOCATIONS OF TIDE CHANNELS, BEAVER CHANNELS, PONDS, AND BEAVER DAMS FROM SRSC 2019 AND 2020 STUDY.
  2. AERIAL IMAGERY FROM 2019 AND ACCESSED FROM USGS EARTH EXPLORER.
  3. TOPOGRAPHIC DATA IS FROM 2012 LIDAR, 2019 SRSC SURVEY, AND 2020 CARNOW SURVEY, TOM MOORE AND STEAMBOAT SLOUGH BATHYMETRY FROM 2012 USGS AND 2014 USACE SONAR STUDIES.
  4. ALL PARCELS ON MILLTOWN ISLAND ARE OWNED BY THE STATE DEPARTMENT OF GAME. ALL OTHER PARCELS ARE LABELED WITH OWNERS.

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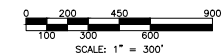
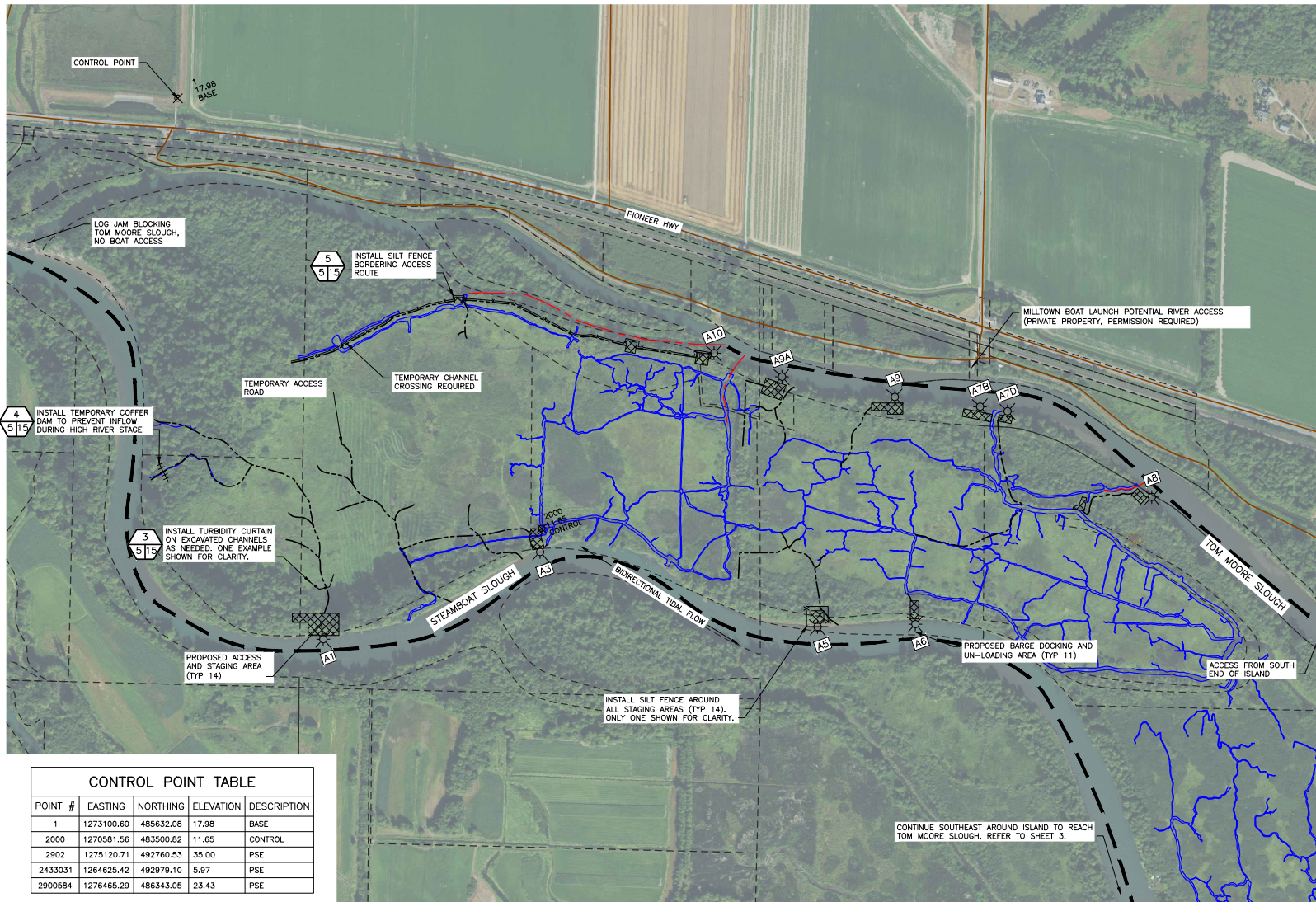
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CHECKED BY	ND
DRAWN BY	LE/JC
DATE	JUNE 2021

SKAGIT WLA, MILLTOWN ISLAND UNIT  
RESTORATION  
G0.4  
EXISTING SITE MAP

PROJECT NO. ST:R206:2021-1	
SHEET 4	OF 15

**Reference Number:**  
**Applicant Name:** WDFW  
**Proposed Project:** Milltown Island Restoration  
**Location:** Milltown Island  
**Sheet 4 of 15** **Date:** 9/1/2021



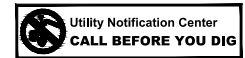
**LEGEND**

- EXISTING FEATURES**
- EXISTING CHANNELS
  - EXISTING PARCELS
  - EXISTING TIDE CHANNELS
  - 1' EXISTING CONTOURS
  - 5' EXISTING CONTOURS
  - ⊗ CONTROL POINT
- PROPOSED FEATURES**
- BARGE ACCESS
  - SMALL WATERCRAFT ACCESS
  - TEMPORARY ACCESS ROADS
  - TURBIDITY CURTAIN
  - SILT FENCE
  - ++++ COFFER DAM
  - ⊗ STAGING AREA
  - ⊗ BARGE DOCKING AND LOADING ZONES

**NOTES:**

1. THE CONTRACTOR SHOULD EXPECT THAT BEAVER EXCAVATED CHANNELS, PONDS, AND TIDE CHANNELS EXTEND FARTHER THAN SHOWN ON THIS PLAN. THE CONTRACTOR SHALL AVOID DISTURBANCE OF BEAVER LODGES, CHANNELS, AND PONDS TO THE GREATEST EXTENT POSSIBLE.
2. ACCESS AND STAGING SHALL BE LIMITED TO THOSE ROUTES, STOCKPILING AREAS, AND BARGE LOADING ZONES SHOWN ON THESE PLANS.
3. ONLY TRACKED AND OR FLOATING EQUIPMENT SHALL BE ALLOWED FOR TRAVEL ON THE EXISTING MARSH SURFACE. EXCAVATED MATERIAL SHALL BE PLACED ON THE NEAREST SHOWN HABITAT MOUND ON THESE PLANS TO LIMIT DISTURBANCE.
4. TEMPORARY ACCESS ROADS SHALL BE LIMITED TO THE CONSTRUCTION BOUNDARIES OF PROPOSED CHANNELS AND LEVEE LOWERING AREAS EXCEPT AS SPECIFIED ON THIS SHEET. REFER TO SHEETS 7-11.
5. EXISTING TREES WHICH DO NOT DIRECTLY CONFLICT WITH A CHANNEL OR LEVEE LOWERING AREA SHALL NOT BE REMOVED WITHOUT APPROVAL FROM THE PROJECT REPRESENTATIVE. THE SHOWN STAGING AREAS SHALL BE IMPLEMENTED TO MINIMIZE DISTURBANCE TO EXISTING NATIVE TREES.
6. SOME OR ALL OF THE PROPOSED WORK OCCURS IN LOW ELEVATION MARSH THAT IS PERMANENTLY OR INTERMITTENTLY INUNDATED WITH WATER. THE SITE IS SUBJECT TO DAILY TIDES AND HIGH RIVER FLOWS THAT MUST BE TAKEN INTO CONSIDERATION DURING CONSTRUCTION. FLOATING EQUIPMENT WILL LIKELY BE REQUIRED, IT IS UNLIKELY THE WORK AREA WILL BE DE-WATERED DURING MUCH OF CONSTRUCTION.
7. PSE CONTROL POINTS LOCATED OFF THIS MAP.
8. BARGE DOCKING AND LOADING ZONES ARE TEMPORARY ANCHOR POINTS FOR SMALL DECK BARGES WITH SPUDS TO LOAD/UNLOAD CONSTRUCTION EQUIPMENT TO THE APPROVED STAGING AREAS.

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CONTROL POINT TABLE				
POINT #	EASTING	NORTHING	ELEVATION	DESCRIPTION
1	1273100.60	485632.08	17.98	BASE
2000	1270581.56	483500.82	11.65	CONTROL
2902	1275120.71	492760.53	35.00	PSE
2433031	1264625.42	492979.10	5.97	PSE
2900584	1276465.29	486343.05	23.43	PSE

CONTINUE SOUTHEAST AROUND ISLAND TO REACH TOM MOORE SLOUGH. REFER TO SHEET 3.

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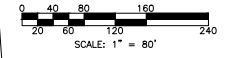
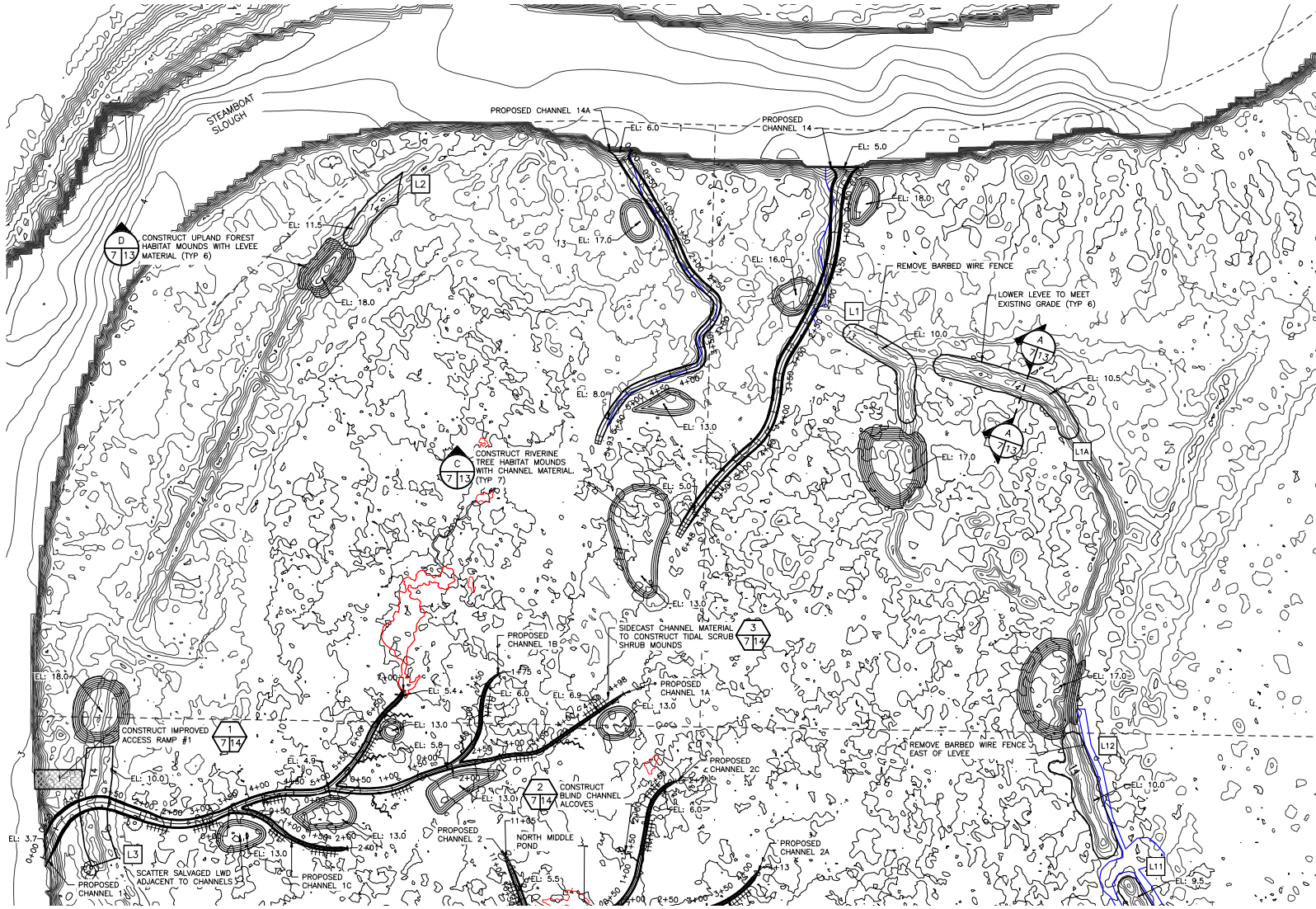
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DRAWN BY LE/JC	DATE
DATE JUNE 2021	

SKAGIT WLA, MILLTOWN ISLAND UNIT	
RESTORATION	
G0.5	
ACCESS-STAGING-TESC	

PROJECT NO. ST:R206:2021-1	
SHEET 5	OF 15

Reference Number:  
 Applicant Name: WDFW  
 Proposed Project: Milltown Island Restoration  
 Location: Milltown Island  
 Sheet 5 of 15  
 Date: 9/1/2021





**LEGEND**

- ⊗ EXISTING FEATURES
- ⊗ BEAVER DAM
- ⊗ 2FT CULVERT
- ⊗ ROADS
- PARCELS
- EXISTING TIDE CHANNELS
- EXISTING BEAVER CHANNELS
- EXISTING PONDS
- 1' EXISTING CONTOURS
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- 1' PROPOSED CONTOURS
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- LARGE WOODY DEBRIS
- ⊗ L# LEVEE LOWERING NUMBER

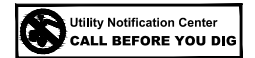
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INSET MAP

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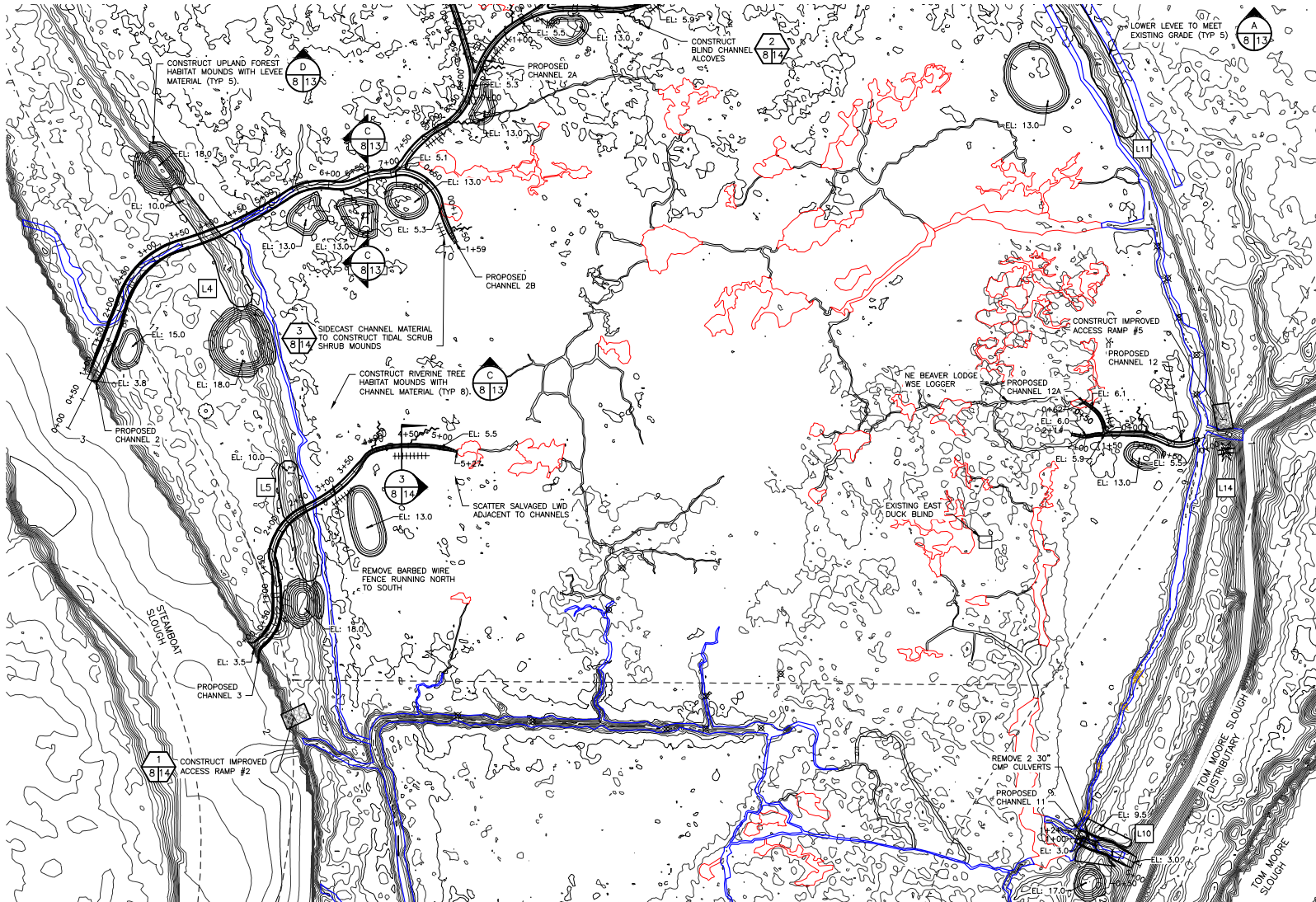
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SKAGIT WLA, MILLTOWN ISLAND UNIT	
RESTORATION	
CO.2	
SITE PLAN 1	

PROJECT NO. ST:R206:2021-1	
SHEET	OF
7	15

Reference Number:  
 Applicant Name: WDFW  
 Proposed Project: Milltown Island Restoration  
 Location: Milltown Island  
 Sheet 7 of 15  
 Date: 9/1/2021



0 40 80 160 240  
20 40 60 80 100 120 140 160 180 200 220 240  
SCALE: 1" = 80'

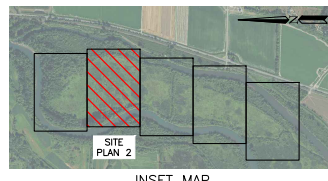
**LEGEND**

- EXISTING FEATURES
- BEAVER DAM
- 2FT CULVERT
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- PARCELS
- EXISTING TIDE CHANNELS
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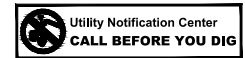
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- 1' PROPOSED CONTOURS
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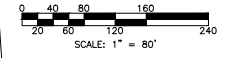
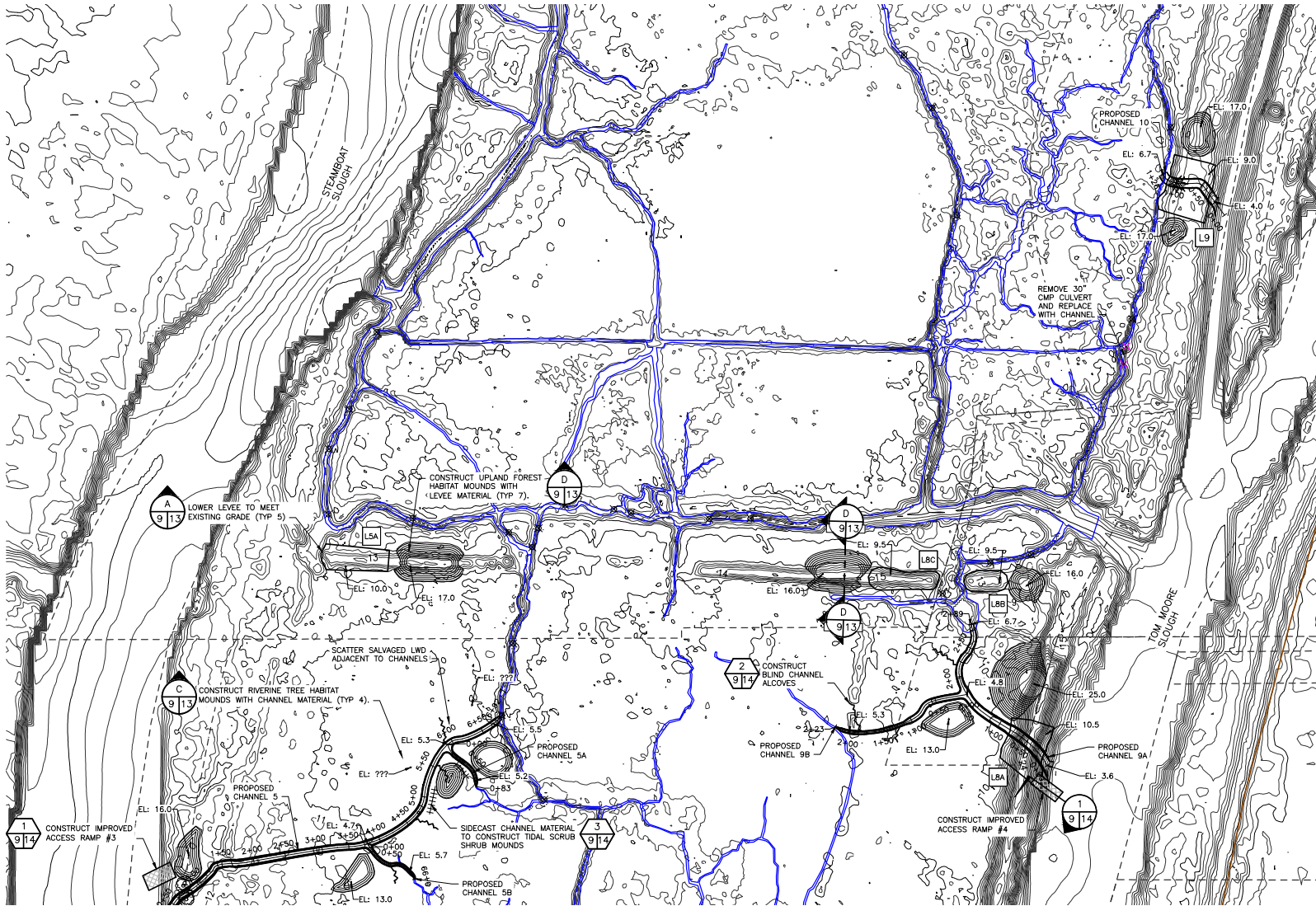
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SKAGIT WLA, MILLTOWN ISLAND UNIT		PROJECT NO. ST:R206:2021-1	
RESTORATION		SHEET OF	
CO.3		8 15	
SITE PLAN 2			

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**Proposed Project:** Milltown Island Restoration  
**Location:** Milltown Island  
**Sheet 8 of 15** **Date:** 9/1/2021



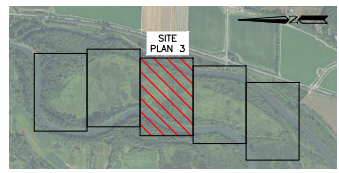


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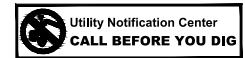
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INSET MAP

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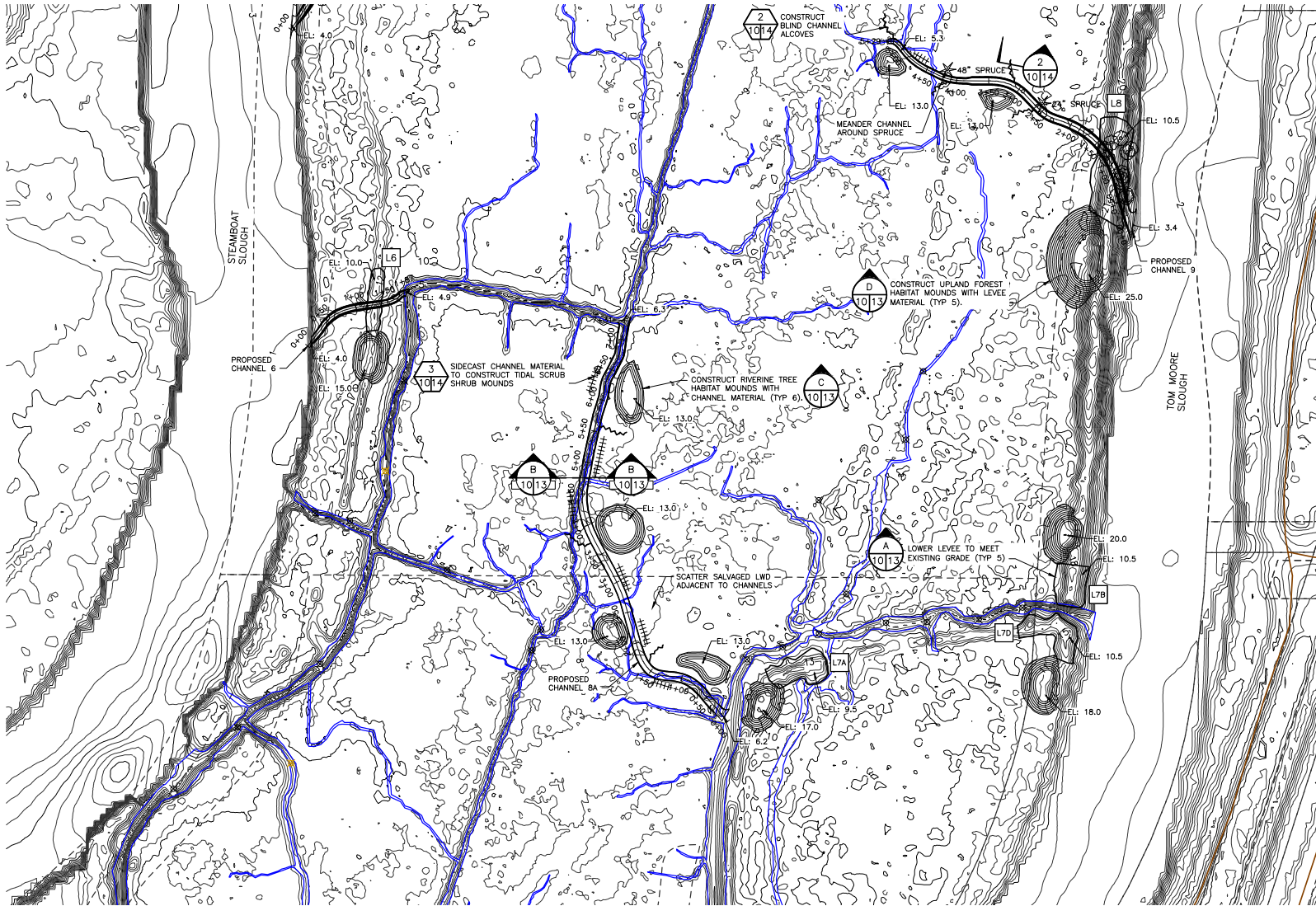
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SKAGIT WLA, MILLTOWN ISLAND UNIT	
RESTORATION	
CO.4	
SITE PLAN 3	

PROJECT NO. ST:R206:2021-1	
SHEET 9	OF 15

Reference Number:  
Applicant Name: WDFW  
Proposed Project: Milltown Island Restoration  
Location: Milltown Island  
Sheet 9 of 15  
Date: 9/1/2021



0 40 80 160 240  
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SCALE: 1" = 80'

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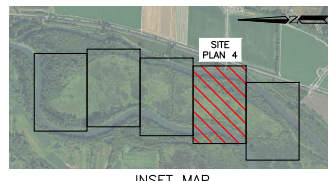
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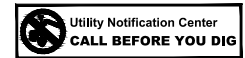
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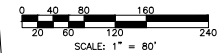
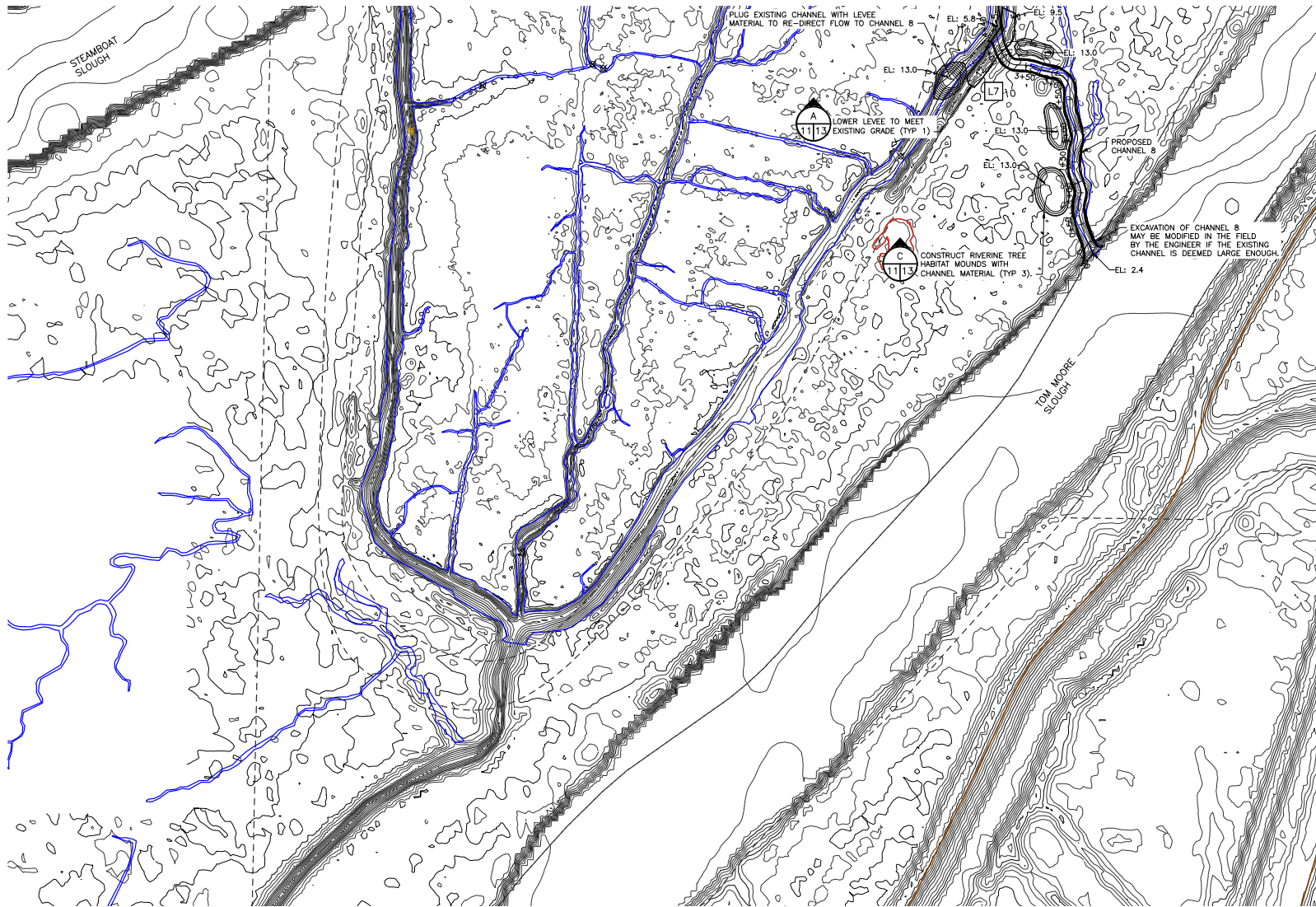
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SKAGIT WLA, MILLTOWN ISLAND UNIT		PROJECT NO. ST:R206:2021-1	
RESTORATION		SHEET 10 OF 15	
C0.5			
SITE PLAN 4			

**Reference Number:**  
**Applicant Name:** WDFW  
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**Location:** Milltown Island  
**Sheet 10 of 15** **Date:** 9/1/2021

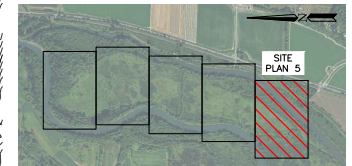


LEGEND

- ⊗ EXISTING FEATURES
- ⊗ BEAVER DAM
- ⊗ 2FT CULVERT
- ⊗ ROADS
- PARCELS
- EXISTING TIDE CHANNELS
- EXISTING BEAVER CHANNELS
- EXISTING PONDS
- 1' EXISTING CONTOURS
- 5' EXISTING CONTOURS
- EXISTING DECIDUOUS TREE
- ⊗ EXISTING CONIFEROUS TREE
- PROPOSED FEATURES
- 1' PROPOSED CONTOURS
- 5' PROPOSED CONTOURS
- LEVEE LOWERING BOUNDARY
- BLIND CHANNEL ALCOVES
- TIDAL SCRUB SHRUB MOUNDS
- LARGE WOODY DEBRIS
- L# LEVEE LOWERING NUMBER

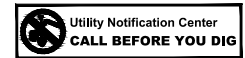
NOTES:

1. EXISTING LOCATIONS OF TIDE CHANNELS, BEAVER CHANNELS, PONDS, AND BEAVER DAMS FROM SRSC 2019 AND 2020 STUDY.
2. TOPOGRAPHIC DATA IS FROM 2012 LIDAR, 2019 SRSC SURVEY, AND 2020 CARDNO SURVEY, TOM MOORE AND STEAMBOAT SLOUGH BATHYMETRY FROM 2012 USGS AND 2014 USACE SONAR STUDIES.
3. TREE LOCATIONS ARE APPROXIMATE AND INCOMPLETE. A FULL VEGETATION SURVEY WAS NOT COMPLETED. THE CONTRACTOR SHOULD EXPECT TO ENCOUNTER MORE TREES THAN SHOWN ON THESE PLANS.
4. DO NOT DISTURB ROOTS OF ANY CONIFERS THAT CONFLICT WITH CHANNEL GRADING. CONTRACTOR MUST MEANDER AROUND CONIFERS WHEN ENCOUNTERED. DO NOT DISTURB ANY TREE WITH DBH >30" UNLESS APPROVAL IS PROVIDED BY THE OWNERS REPRESENTATIVE OR ENGINEER.



INSET MAP

UNAUTHORIZED CHANGES & USES  
 THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.



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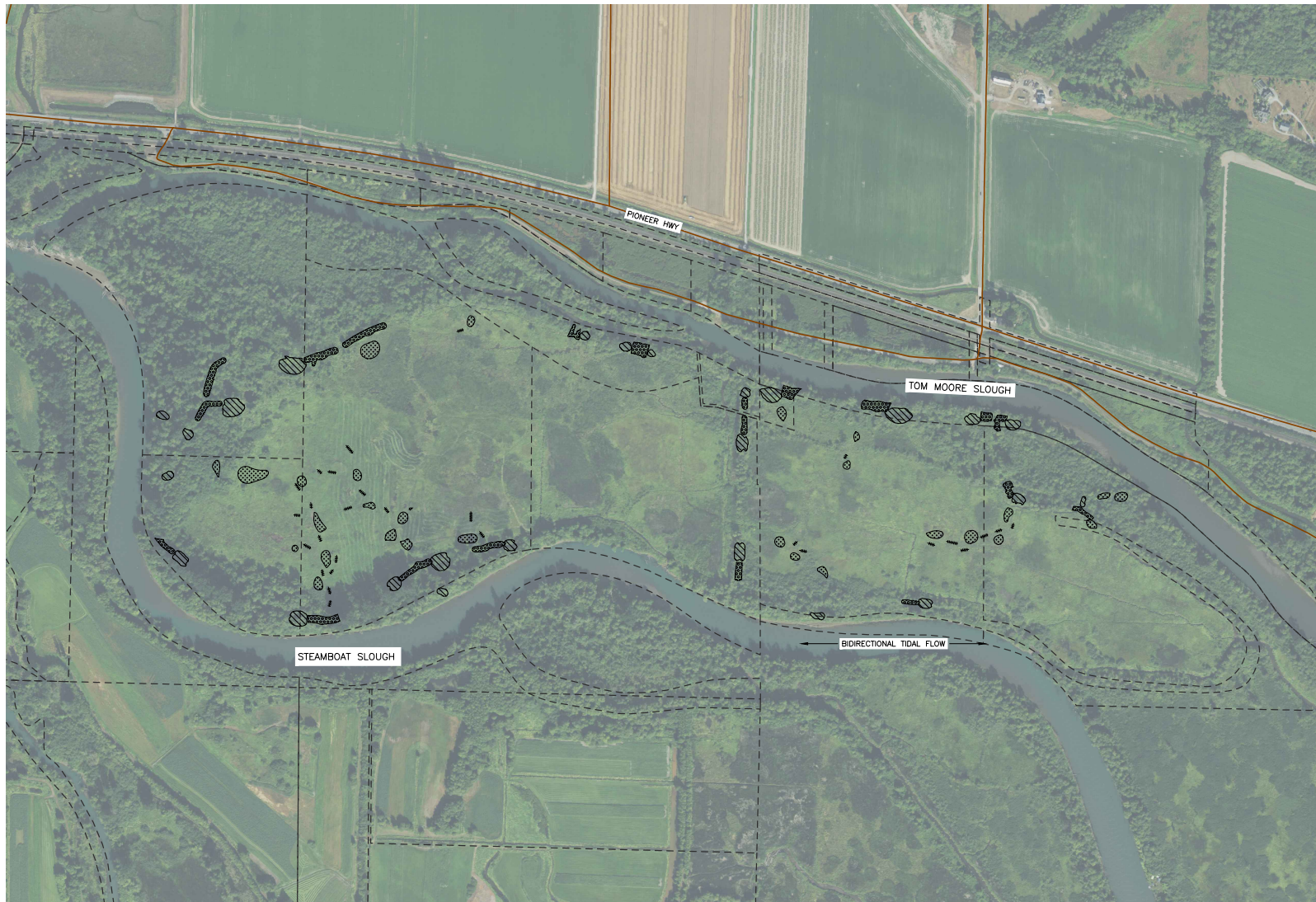
DESIGNED BY DE/LE  
 CHECKED BY ND  
 DRAWN BY LE/JC  
 DATE JUNE 2021

SKAGIT WLA, MILLTOWN ISLAND UNIT

RESTORATION  
 CO.6  
 SITE PLAN 5

PROJECT NO. ST:R206:2021-1	
SHEET 11	OF 15

Reference Number:  
 Applicant Name: WDFW  
 Proposed Project: Milltown Island Restoration  
 Location: Milltown Island  
 Sheet 11 of 15  
 Date: 9/1/2021



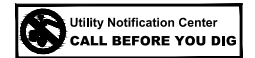
0 40 80 160 240  
20 60 120  
SCALE: 1" = 80'

**LEGEND**

- EXISTING FEATURES
- ROADS
- PARCELS
- PROPOSED FEATURES
- +++++ TIDAL SCRUB SHRUB MOUNDS
- ..... RIVERINE TREE MOUNDS
- //// UPLAND FOREST MOUNDS
- ▨ LEVEE LOWERING SCRUB SHRUB

- NOTES:**
1. PLANTING PLAN IN DEVELOPMENT BY THE SKAGIT RIVER SYSTEM COOPERATIVE (SRSC), REFER TO HABITAT MOUND TYPICAL SECTIONS ON SHEET 13 AND DETAILS ON SHEET 14 FOR TYPICAL PLANTING ZONES AND ELEVATIONS.
  2. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES (I.E. LEVEE LOWERING AND HABITAT MOUNDS) WILL BE DENSELY PLANTED WITH A NATIVE VEGETATION COMMUNITY APPROPRIATE TO THAT ELEVATION BAND.
  3. PLANTING WILL COMMENCE IN THE FALL OR WINTER FOLLOWING CONSTRUCTION AND WILL NOT BE IN THE CONSTRUCTION CONTRACT. PLANTING TO BE DONE BY SRSC OR ANOTHER PARTY.
  4. THE PLANTING ZONES SHOWN HERE ARE PRELIMINARY AND ARE LIMITED TO THE DISTURBANCE AREAS IMPACTED BY GRADING. ADDITIONAL PLANTING IMPROVEMENTS ARE IN DEVELOPMENT BY SRSC.

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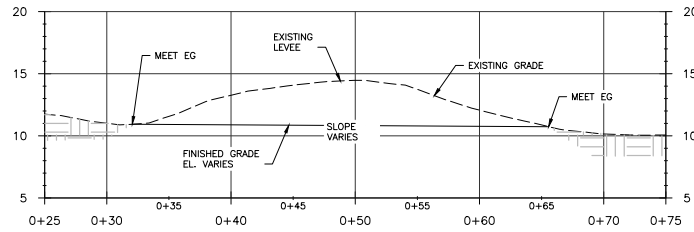


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		CHECKED BY ND	RESTORATION		SHEET	OF
		DRAWN BY LE/JC	C0.8		12	15
		DATE JUNE 2021	PLANTING PLAN			

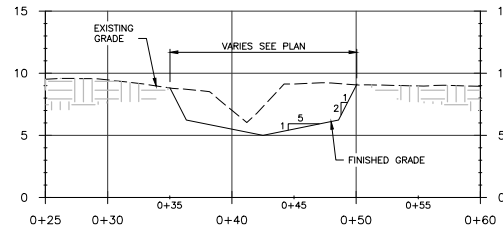
Reference Number:  
 Applicant Name: WDFW  
 Proposed Project: Milltown Island Restoration  
 Location: Milltown Island  
 Sheet 12 of 15  
 Date: 9/1/2021

NOTES:

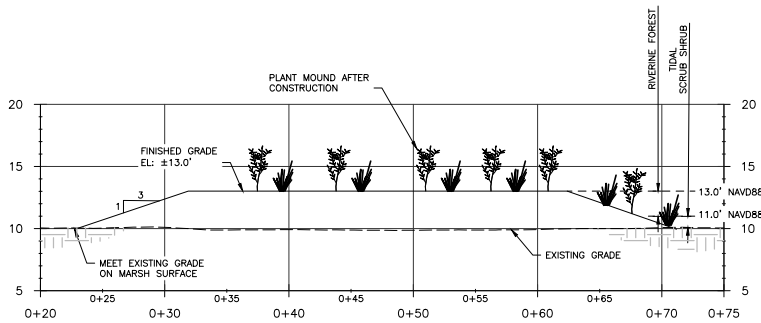
- HABITAT MOUND PLANTING SCHEDULE IN DEVELOPMENT BY THE SKAGIT RIVER SYSTEM COOPERATIVE (SRSC).
- TIDE CHANNEL ELEVATIONS, GRADES AND WIDTHS WERE DEVELOPED USING ALLOMETRIC RELATIONSHIPS OBSERVED IN THE SOUTH FORK SKAGIT RIVER DELTA. REFER TO SITE PLANS 7-11 FOR EXACT GEOMETRY.
- LEVEE LOWERING AREAS SHOULD BE CONSTRUCTED TO HAVE SOME NATURAL VARIATION IN MICRO-TOPOGRAPHY AND SHOULD NOT BE COMPACTED.



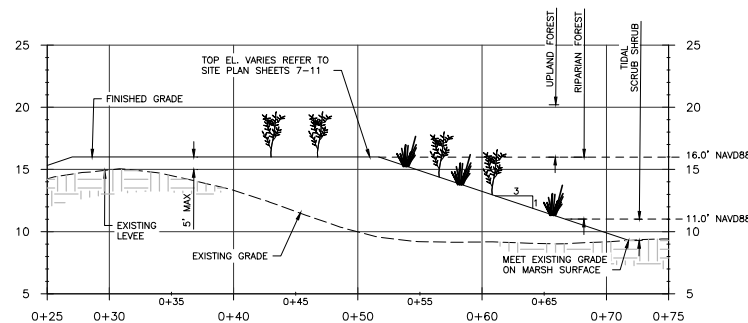
LEVEE LOWERING TYPICAL SECTION A  
SCALE: 1" = 5'



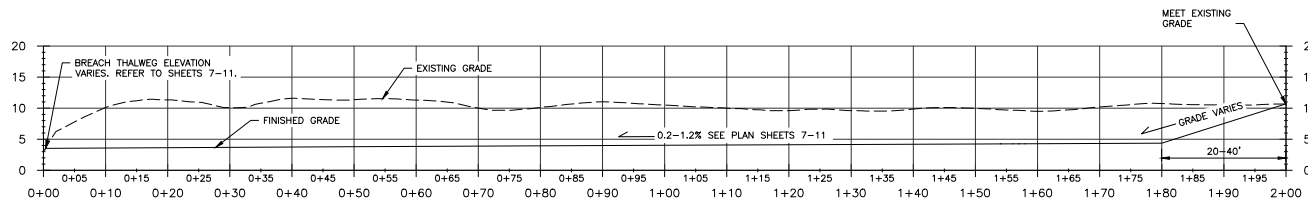
TIDE CHANNEL TYPICAL SECTION B  
SCALE: 1" = 5'



RIVERINE TREE HABITAT MOUND TYPICAL SECTION C  
SCALE: 1" = 5'

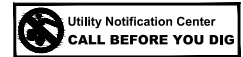


UPLAND FOREST HABITAT MOUND TYPICAL SECTION D  
SCALE: 1" = 5'



TIDE CHANNEL TYPICAL PROFILE E  
SCALE: 1" = 10'

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SKAGIT WLA, MILLTOWN ISLAND UNIT

RESTORATION

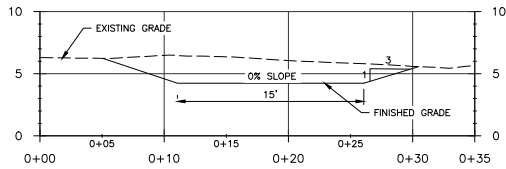
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PROFILES AND SECTIONS

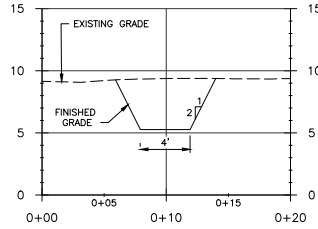
PROJECT NO.  
ST:R206:2021-1

SHEET 13 OF 15

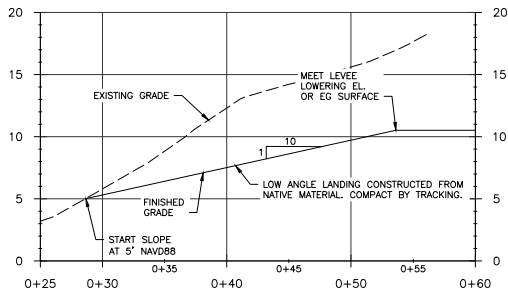
Reference Number:  
Applicant Name: WDFW  
Proposed Project: Milltown Island Restoration  
Location: Milltown Island  
Sheet 13 of 15  
Date: 9/1/2021



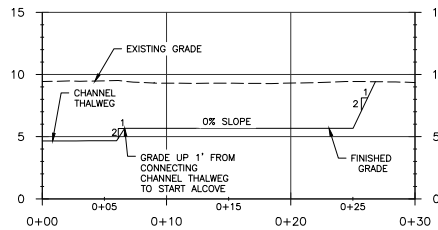
SECTION



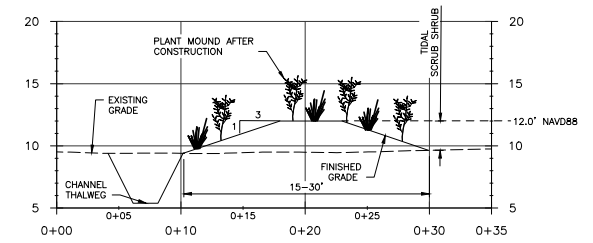
SECTION



PROFILE



PROFILE



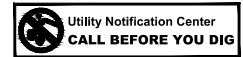
TIDAL SCRUB SHRUB MOUND TYPICAL SECTION

LOW ANGLE LANDING TYPICAL DETAIL 1  
9/14  
SCALE: 1" = 5'

BLIND CHANNEL ALCOVE TYPICAL DETAIL 2  
10/14  
SCALE: 1" = 5'

TIDAL SCRUB SHRUB MOUND TYPICAL SECTION 3  
8/14  
SCALE: 1" = 3'

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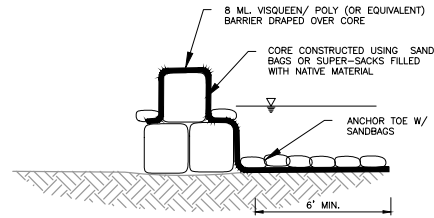
SKAGIT WLA, MILLTOWN ISLAND UNIT

RESTORATION  
C0.9  
DETAILS

PROJECT NO.  
ST:R206:2021-1

SHEET 14 OF 15

Reference Number:  
Applicant Name: WDFW  
Proposed Project: Milltown Island Restoration  
Location: Milltown Island  
Sheet 14 of 15  
Date: 9/1/2021

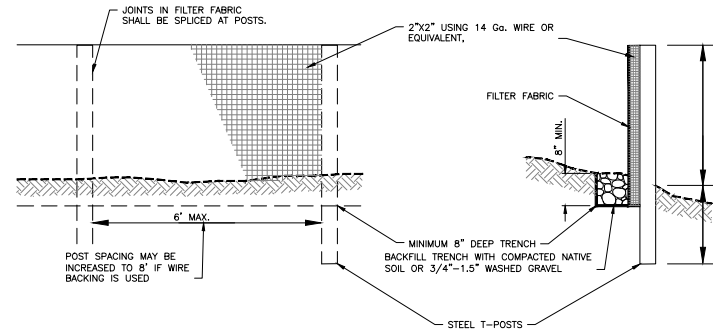


**COFFER DAM**  
NOT TO SCALE

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NOTES:

1. THE CONTRACTOR SHALL EXPECT MUCH OF THE WORK SITE TO BE INUNDATED WITH 1-2 FEET OF WATER ON A DAILY BASIS DURING HIGH TIDE AND SHOULD NOT EXPECT TO DE-WATER THE WORK AREA. LOW GROUND PRESSURE AND AMPHIBIOUS EQUIPMENT (E.G. FLOATING EXCAVATORS) WILL BE NECESSARY TO COMPLETE CONSTRUCTION.
2. USE OF TEMPORARY EROSION AND SEDIMENT CONTROL BMPs SHOWN ON THIS SHEET WILL BE AT THE DISCRETION OF THE CONTRACTOR AND SHOULD NOT BE RELIED ON SOLELY FOR WATER EXCLUSION AND OR TREATMENT. THESE DETAILS SHALL BE USED IN CONJUNCTION WITH OTHER BEST MANAGEMENT PRACTICES.
3. THE CONTRACTOR SHOULD UTILIZE TIME PERIODS DURING LOW AND MID-TIDES TO COMPLETE A MAJORITY OF PROJECT WORK TO PREVENT TURBID WATER RUNOFF.
4. TIDE CHANNEL EXCAVATION SHOULD NOT BE DIRECTLY CONNECTED TO TOM MOORE OR STEAMBOAT SLOUGHS DURING CONSTRUCTION, BUT SHOULD PROGRESS AS A SERIES OF ISOLATED PONDS TO ENCOURAGE SEDIMENT DEPOSITION AND TO PREVENT CHANNELIZATION OF FLOW PRIOR TO COMPLETION.



NOTES:

1. FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.

**SILT FENCE**  
NOT TO SCALE

J  
5 | 15

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CO.10  
TESC DETAILS

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