



WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

SKAGIT WILDLIFE AREA - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
ST:R127:18-1



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ABBREVIATIONS

AB	- AGGREGATE BASE	GB	- GRADE BREAK	REQD	- REQUIRED
AC	- ASPHALT CONCRETE	H	- HEIGHT	ROW	- RIGHT OF WAY
APPROX	- APPROXIMATE	HDPE	- HIGH-DENSITY POLYETHYLENE	S	- SOUTH
BM	- BENCHMARK	ID	- INSIDE DIAMETER	SCH	- SCHEDULE
CAP	- CORRUGATED ALUMINUM PIPE	IE	- INVERT ELEVATION	SS	- STAINLESS STEEL
CC	- CENTER TO CENTER	IN	- INCH, INCHES	SDR	- STANDARD DIMENSION RATIO
CF	- CUBIC FOOT	INV	- INVERT	SF	- SQUARE FEET
CFS	- CUBIC FOOT PER SECOND	IPS	- IRON PIPE SIZE	SHT	- SHEET
CL	- CENTERLINE	L	- LENGTH, LEFT	SP	- SPECIAL
CMP	- CORRUGATED METAL PIPE	LBF	- POUNDS-FORCE	SPECS	- SPECIFICATIONS
CMPA	- CORRUGATED METAL ARCH PIPE	LF	- LINEAR FEET	SY	- SQUARE YARD
CONC	- CONCRETE	MAINT	- MAINTENANCE	STA	- STATION
CP	- CONTROL POINT	MAX	- MAXIMUM	STD	- STANDARD
CY	- CUBIC YARD	MIN	- MINIMUM	TBD	- TO BE DETERMINED BY ENGINEER
DEMO	- DEMOLISH	MISC	- MISCELLANEOUS	TBM	- TEMPORARY BENCHMARK
DIA	- DIAMETER	(N)	- NEW	TC	- TIDAL CHANNEL
Dp	- PIPE DIAMETER	N	- NORTH	TEMP	- TEMPORARY
Dr	- RISER DIAMETER	NIC	- NOT IN CONTRACT	TOL	- TOP OF LEVEE
DU	- DUCKS UNLIMITED, INC.	NTS	- NOT TO SCALE	TOB	- TOP OF BERM
D/S	- DOWNSTREAM	OC	- ON CENTER	TYP	- TYPICAL
E	- EAST	OD	- OUTSIDE DIAMETER	USA	- UNDERGROUND SERVICE ALERT
EG	- EXISTING GROUND	PIP	- PRESSURE IRRIGATION PIPE	U/S	- UPSTREAM
EL	- ELEVATION	PP	- POWER POLE	VLV	- VALVE
EX, EXIST	- EXISTING	PSI	- POUNDS PER SQUARE INCH	W	- WIDTH, WEST (WHERE APPLICABLE)
FRG	- FINAL ROUGH GRADE	PVC	- POLYVINYL CHLORIDE	W /	- WITH
FG	- FINISHED GRADE	QTY	- QUANTITY	WCS	- WATER CONTROL STRUCTURE
FL	- FLOWLINE	R	- RIGHT	WS	- WATER SURFACE
FT	- FOOT, FEET	RCB	- REINFORCED CONCRETE BOX	WSEL	- WATER SURFACE ELEVATION
FTG	- FITTING, FOOTING	RD	- ROAD	WWF	- WELDED WIRE FABRIC
GA	- GAUGE	REF	- REFERENCE DIMENSION	X:1	- SLOPE, HORIZONTAL/VERTICAL

SHEET SYMBOLS

DETAIL DESIGNATION
 SHEET CALLED FROM* SHEET LOCATED ON
 * DASH INDICATES DETAIL MAY APPEAR ON MULTIPLE SHEETS.

DETAIL

SECTION DESIGNATION
 SHEET CALLED FROM* SHEET LOCATED ON
 * DASH INDICATES DETAIL MAY APPEAR ON MULTIPLE SHEETS.

SECTION



NOTE REFERENCE

REFERENCE DESIGNATION TO NOTE OR A PART OR MATERIAL IN A SCHEDULE/TABLE



SNOHOMISH COUNTY PLANNING DEPT. SERVICES
APPROVED FOR CONSTRUCTION

BY:
RANDOLPH P. SLIGHT, P.E., E.L.S.

PERMIT NO. _____

PROJECT NO.
ST:R127:18-1

SHEET	OF
1	29

SURVEY DATUM

HORIZONTAL: NAD 83
 US STATE PLANE WASHINGTON SOUTH ZONE
 VERTICAL: NAVD83
 UNITS: US FEET

NEW IMPERVIOUS SURFACE: 182,000 SF
 REPLACED IMPERVIOUS SURFACE: 0 SF

LEGAL DESCRIPTION

A PORTION OF GOVERNMENT LOTS 5 AND 6
 LOCATED SOUTH OF HWY 532, AND ALL OF
 GOVERNMENT LOTS 4, 8, 9, 11 EXCEPT EIDE
 ROAD, LOCATED IN SECTION 26, TOWNSHIP 32
 NORTH, RANGE 03 E. W.M., SNOHOMISH COUNTY.

GENERAL NOTES

1. THE ENGINEER MAKES NO REPRESENTATIONS AS TO THE EXISTENCE OR NONEXISTENCE OF UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE PROVISIONS OF ALL APPLICABLE UTILITY NOTIFICATION REGULATIONS. THE CONTRACTOR WILL BE LIABLE FOR ANY DAMAGE TO UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES.
2. THE ENGINEER DOES NOT REPRESENT THAT THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE PRESENCE OF, ACTUAL LOCATIONS OF AND MAKE PROVISIONS FOR ALL WATERCOURSES AND UTILITIES. THE CONTRACTOR SHALL VERIFY LOCATION, DEPTH AND HEIGHT. THEIR VERIFICATION SHALL BE COORDINATED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY COMPANY.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN THE VICINITY OF OVERHEAD POWER LINES. VERIFY LOCATION IN THE FIELD AND PROTECT IN PLACE.
4. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REQUIREMENTS RELATIVE TO THE NOTIFICATION OF THE APPLICABLE UNDERGROUND SERVICE ALERT.
5. AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING ANY DIGGING OR EXCAVATION WORK THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT, TO DETERMINE LOCATIONS OF EXISTING UTILITIES.
6. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH OCCUPATIONAL SAFETY LAWS, INCLUDING THE DESIGN AND CONSTRUCTION OF PROPER SHORING OF TRENCHES. THE DUTIES OF THE PROJECT ENGINEER DO NOT INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY IN, ON, OR NEAR THE JOB SITE.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE KNOWLEDGEABLE ABOUT THE PROJECT SPECIFICATIONS AND PERMITS. ALL WORK SHALL BE COMPLETED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL HAVE COPIES OF THE MOST CURRENT APPROVED PLANS, SPECIFICATIONS AND PERMIT CONDITIONS ON SITE DURING ALL WORK OPERATIONS.
8. THE PROJECT SITE AND ADJACENT AREAS CONTAIN SENSITIVE HABITAT AREAS FOR PROTECTED WILDLIFE, AND MAY INCLUDE ENDANGERED SPECIES. THE CONTRACTOR SHALL PROTECT WILDLIFE AND WATER QUALITY, AND MINIMIZE POSSIBLE AIR, WATERWAY, AND SUBSOIL CONTAMINATION OR POLLUTION OR OTHER UNDESIRABLE EFFECTS.
9. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS OR IN THE SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION MANAGER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
10. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THE DRAWINGS, HE SHALL NOTIFY THE CONSTRUCTION MANAGER BEFORE PROCEEDING WITH CONSTRUCTION.
11. THE GEOTECHNICAL REPORT BY GEODESIGN DATED OCT. 15, 2007 CAN BE FOUND AS AN ATTACHMENT TO THE TECHNICAL SPECIFICATIONS FOR THIS PROJECT.
12. "DIKE REPAIR MATERIAL" CONSISTS OF CONCRETE ECOCLOGY BLOCKS, GEOTEXTILE FABRIC AND SAND-FILLED SUPERSACKS. SAND CONTENTS OF THE SUPERSACKS MAY BE BURIED IN DITCHES AND/OR BORROW AREAS TO BE FILLED.

APPROXIMATE NEAT LINE EARTHWORK QUANTITIES

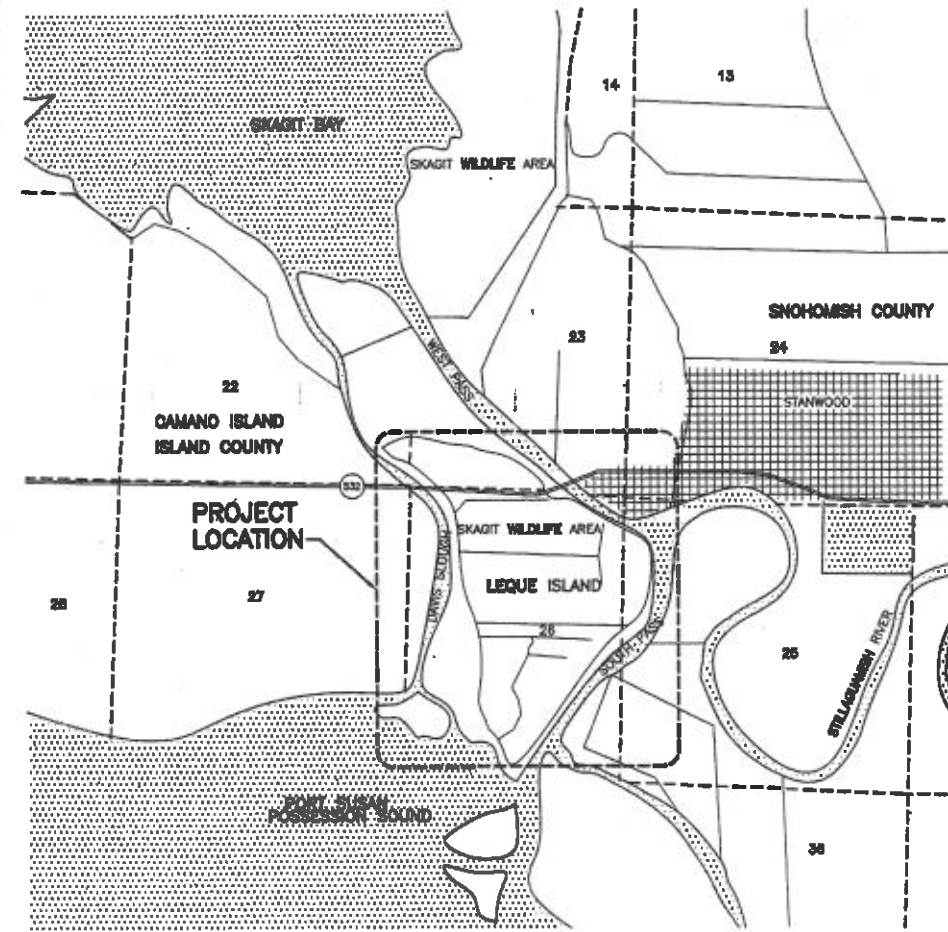
FEATURE	STRIPPING (CY)	CUT FOR COMPACTED FILL (CY)	CUT FOR UNCOMPACTED FILL (CY)	COMPACTED FILL (CY)	PACKED AND UNCOMPACTED FILL (CY)
NEW BERM *	3,213			36,796	
DIKE REMOVAL			30,338		
EXISTING DITCHES 1 AND 2					1,822
TEMPORARY DITCHES AND TIDAL CHANNEL TO					894
FILL EXISTING BORROW AREAS	3,074**				8,988
TIDAL CHANNEL 20***			428		
TIDAL CHANNEL 6***			2,638		
TIDAL CHANNEL 1, 2, 4, AND 7****			3,098		
EXISTING SPOILS AREA			218		
TIDAL CHANNEL STRIPPINGS	3,883				
TIDAL HEADWATER AREA STRIPPINGS	18,118				
TIDAL CHANNEL AND HEADWATER AREA EXCAVATION		24,423			
ADDITIONAL EXCAVATION F NEEDED FOR EARTHWORK BALANCE *****	5,000	10,000			

- * INCLUDES 6" OF SETTLEMENT OVER BERM FOOTPRINT
- ** THIS VOLUME REPRESENTS 1.5' OF MUCK EXCAVATION
- *** UNSUITABLE FOR BERM FILL
- **** TO BE USED TO FILL EXISTING BORROW AREAS
- ***** ADDITIONAL MATERIAL, IF NEEDED, MAY BE OBTAINED BY ENLARGING TIDAL HEADWATER AREAS 1B, 2, 4C, 4D AND 21A

PROJECT LOCATION



STATE MAP NOT TO SCALE



VICINITY MAP NOT TO SCALE

USACE REFERENCE #:
 APPLICANT: WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

OWNER: WASHINGTON DEPARTMENT OF FISH AND WILDLIFE
 APN 32032800200100, 32032800100400,
 32032800100200, 32032800100100, 32032800100500,
 32032800400100, 32032800400500, 32032800400800

ADJACENT PROPERTY OWNERS: APN 32033500200100,
 32033500100200, 32033500100300, 32033500100400

CEBCL: TERRY ELLSON, WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

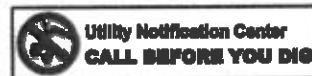
PROJECT LOCATION INFORMATION:

COUNTY: SNOHOMISH
 ADDRESS:
 TIER: T 32N, R 3E, S 28
 LATITUDE: 48° 14' 00" N
 LONGITUDE: 122° 25' 08" W
 PARCEL #:
 AREA: APPROX. 38.2 AC

SNOHOMISH COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION

BY: RANDOLPH P. BURGH, P.E., P.L.S.

PERMIT NO:



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.



WASHINGTON STATE
 DEPARTMENT OF FISH AND WILDLIFE



REV	DATE	REVISION DESCRIPTION	BY
0		BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS	
		APPROVED AND RELEASED FOR CONSTRUCTION	
		DATE: 2/14/19	
		DATE: 4/2019	

SKAGIT W.A. - LEQUE ISLAND UNIT
 ESTUARY RESTORATION PROJECT - PHASE II
 GENERAL NOTES, STATE AND VICINITY MAP

PROJECT NO.
 ST:R127:18-1
 SHEET 2 OF 29

SWPPP NOTES

1. LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN
SEE THE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS ON PLAN SHEETS 3 AND 29.

2. EROSION AND SEDIMENT CONTROLS
(CHECK ALL THAT APPLY)

STABILIZATION PRACTICES (SEE EROSION AND SEDIMENT CONTROL DETAILS IN PLAN SHEETS)

- TEMPORARY OR PERMANENT SEEDING
- PRESERVE EXISTING VEGETATION
- SOIL PLACEMENT
- TOP SOIL PLACEMENT
- MULCHING (STRAW OR CELLULOSE FIBER)
- EROSION CONTROL BLANKETS OR MATS
- VEGETATION BUFFER STRIPS
- ROUGHENED SURFACE (E.G. TRACKING)
- GABIONS-DAGON MATRESS
- OTHER: R/R RAP

STRUCTURAL TEMPORARY EROSION AND SEDIMENT CONTROLS

- SILT FENCE
- TEMPORARY BERM
- TEMPORARY SLOPE DRAIN
- STRAW WATTLES OR ROLLS
- DIVERSION CHANNELS/SWALES
- CHANNEL LINERS (TRM)
- STONE R/R RAP SHEET
- ROCK CHECK DAMS
- SEDIMENT TRAPS/BASINS
- SILET PROTECTION
- OUTLET PROTECTION
- SURFACE INLET PROTECTION
- CURB INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE (EXISTING EIDE ROAD)

OTHER CONTROLS (WASTE DISPOSAL, OFF-SITE VEHICLE TRACKING, ETC.)

- LOCATE WASTE CONTAINERS AWAY FROM WATER BODIES
- DO NOT DISCHARGE VEHICLE OR MACHINERY WASH WATERS TO WATER BODIES
- LOCATE ON-SITE FUELING AND MAINTENANCE AREAS AWAY FROM WATER BODIES OR RUNOFF AREAS
- PREVENTS SPILLS AND LEAKS DURING FUELING AND MAINTENANCE OF EQUIPMENT
- USE OF OFF-SITE MAINTENANCE SHOPS TO THE EXTENT POSSIBLE

POLLUTION PREVENTION MANAGEMENT MEASURES

- SOLID WASTES
COLLECTED SEDIMENT, ASPHALT, AND CONCRETE MILLINGS, FLOATING DEBRIS, PAPER, PLASTIC, FABRIC, CONSTRUCTION AND DEMOLITION DEBRIS AND OTHER WASTES MUST BE DISPOSED OF PROPERLY AND MUST COMPLY WITH EPA DISPOSAL REQUIREMENTS.
- HAZARDOUS MATERIALS
OIL, GASOLINE, PAINT AND ANY HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED, INCLUDING SECONDARY CONTAINMENT, TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS TO STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPLIANCE WITH EPA REGULATIONS.

3. SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN
THE CONTRACTOR SHALL DEVELOP A SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN AND KEEP A COPY OF IT ON-SITE DURING CONSTRUCTION.

4. MAINTENANCE AND INSPECTION
MAINTENANCE AND INSPECTION PRACTICES

- INSPECTIONS WILL BE CONDUCTED AT LEAST ONE TIME PER WEEK AND AFTER A STORM EVENT OF 0.50 INCHES OR GREATER.
- ALL CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. NECESSARY REPAIRS WILL BE INITIATED WITHIN 24 HOURS OF THE SITE INSPECTION REPORT OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
- WHERE WORK HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, THE REQUIRED INSPECTIONS AND MAINTENANCE MUST TAKE PLACE AS SOON AS RUNOFF OCCURS AT THE SITE OR PRIOR TO RESUMING CONSTRUCTION, WHICHEVER COMES FIRST.
- WHERE PARTS OF THE CONSTRUCTION SITE HAVE UNDERGONE FINAL STABILIZATION, BUT WORK REMAINS ON OTHER PARTS OF THE SITE, INSPECTIONS OF THE STABILIZED AREAS MAY BE REDUCED TO ONCE PER MONTH.
- SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT AND FOR TEARS IN ORDER TO ENSURE THE FABRIC IS SECURELY ANCHORED. SEDIMENT BUILDUP WILL BE REMOVED FROM THE SILT FENCE WHEN IT REACHES 2/3 OF THE HEIGHT OF THE SILT FENCE. ALL SILT FENCES MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 2/3 OF THE HEIGHT OF THE FENCE.
- SEDIMENT BASINS AND TRAPS WILL BE CHECKED. SEDIMENT WILL BE REMOVED WHEN THE DEPTH REACHES APPROXIMATELY 80 PERCENT OF THE STRUCTURE'S CAPACITY.
- CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN THE DEPTH REACHES 2/3 OF THE HEIGHT OF THE DAM.
- ALL TEEDED AREAS WILL BE CHECKED FOR BARE SPOTS, WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.
- SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF SEDIMENT BEING DEPOSITED BY EROSION.
- CONSTRUCTION SITE VEHICLE EXIT LOCATIONS MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED FROM ALL OFF-SITE PAVED SURFACES WITHIN 24 HOURS OF DISCOVERY.
- DISTURBED AREAS WILL BE CHECKED FOR STABILIZATION. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- TEMPORARY OR PERMANENT DITCHES OR SWALES THAT ARE BEING USED AS A SEDIMENT CONTAINMENT SYSTEM (WITH PROPERLY DESIGNED ROCK DITCH CHECKS, BIO ROLLS, SILT DIKES, ETC.) DO NOT NEED TO BE STABILIZED. THESE AREAS MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM.
- DISCHARGE PROCEDURES FOR WATER CONTROL AND DEWATERING OPERATIONS WILL BE INSPECTED.
- INSPECTION AND MAINTENANCE REPORTS WILL BE COMPLETED FOR EACH SITE INSPECTION. THIS FORM WILL ALSO BE USED TO DOCUMENT CHANGES TO THE SWPPP. THE REPORT SHALL INCLUDE THE DATE AND AMOUNT OF RAINFALL EVENTS GREATER THAN 0.5 INCH IN 24 HOURS. A COPY OF THE COMPLETED

INSPECTION FORM WILL BE FILED WITH THE SWPPP DOCUMENTS.
THE CONTRACTOR'S SITE SUPERINTENDENT IS RESPONSIBLE FOR INSPECTION, MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

5. SPILL NOTIFICATION

SPILL KITS SHALL BE KEPT IN ALL VEHICLES AND EQUIPMENT DURING CONSTRUCTION. IN THE EVENT OF A SPILL THE CONTRACTOR'S SITE SUPERINTENDENT WILL MAKE THE APPROPRIATE NOTIFICATION(S), CONSISTENT WITH THE FOLLOWING PROCEDURES:

- a. FOR SPILLAGE ON LAND, CONSTRUCT EARTHEN BERMS OR USE OTHER SUITABLE BARRIAGE MATERIAL OF SUFFICIENT SIZE TO CONTAIN THE SPILL AND KEEP IT FROM SPREADING. ALSO STORE ABSORBENT MATERIALS ON-SITE AND WITHIN VEHICLES FOR IMMEDIATE RESPONSE IF A SPILL SHOULD OCCUR.
- b. FOR SPILLAGE ON WATER, ATTEMPT TO ISOLATE AND CONTAIN THE SPILLED MATERIAL. COMMERCIAL BOOMS OR OTHER SUITABLE MATERIAL SHALL BE KEPT CLOSE TO THE ACTIVE WORK AREA TO CONTAIN FUEL OIL SPILLS ON WATER.
- c. CALL THE WASHINGTON DEPARTMENT OF FISH AND WILDLIFE AT 425-775-1311.

6. CONSTRUCTION CHANGES

WHEN CHANGES ARE MADE TO THE CONSTRUCTION PROJECT THAT WILL REQUIRE ALTERATIONS IN THE TEMPORARY EROSION CONTROLS OF THE SITE, THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE AMENDED TO PROVIDE APPROPRIATE PROTECTION TO DISTURBED AREAS, ALL STORM WATER STRUCTURES, AND ADJACENT WATERS. THE SWPPP WILL BE RETAINED IN A DESIGNATED PLACE FOR REVIEW OVER THE COURSE OF THE PROJECT.

7. PROJECT CONTACTS AND RESPONSIBILITIES

THE CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR WITH THE DEPARTMENT OF ECOLOGY CONSTRUCTION STORMWATER GENERAL PERMIT, AND WITH THE REQUIREMENTS OF THE SNOHOMISH COUNTY DRAINAGE MANUAL VOLUME II. WHEN A CONFLICT ARISES BETWEEN THE PERMIT AND THIS PLAN SHEET, THE PERMIT SHALL GOVERN.

THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND INSTALLATION, INSPECTION AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMP'S BEFORE AND DURING CONSTRUCTION.

THE CONTRACTOR WILL BE REQUIRED TO HAVE A PERSON DESIGNATED AND ON THE PROJECT SITE WHO HAS BEEN TRAINED AND CERTIFIED AS AN EROSION AND SEDIMENT CONTROL LEAD.

8. EROSION CONTROL PLANS

THE IMPLEMENTATION OF THESE EROSION/SEDIMENTATION CONTROL (ESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.

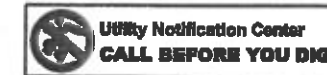
THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCES BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROAD WAYS, OR VIOLATE APPLICABLE WATER STANDARDS.

THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADDED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.

THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT.



SNOHOMISH COUNTY PLANNING DEPT. SERVICES
APPROVED FOR CONSTRUCTION

BY:
RANDOLPH P. BLIGHT, P.E., P.L.S.

PERMIT NO: _____

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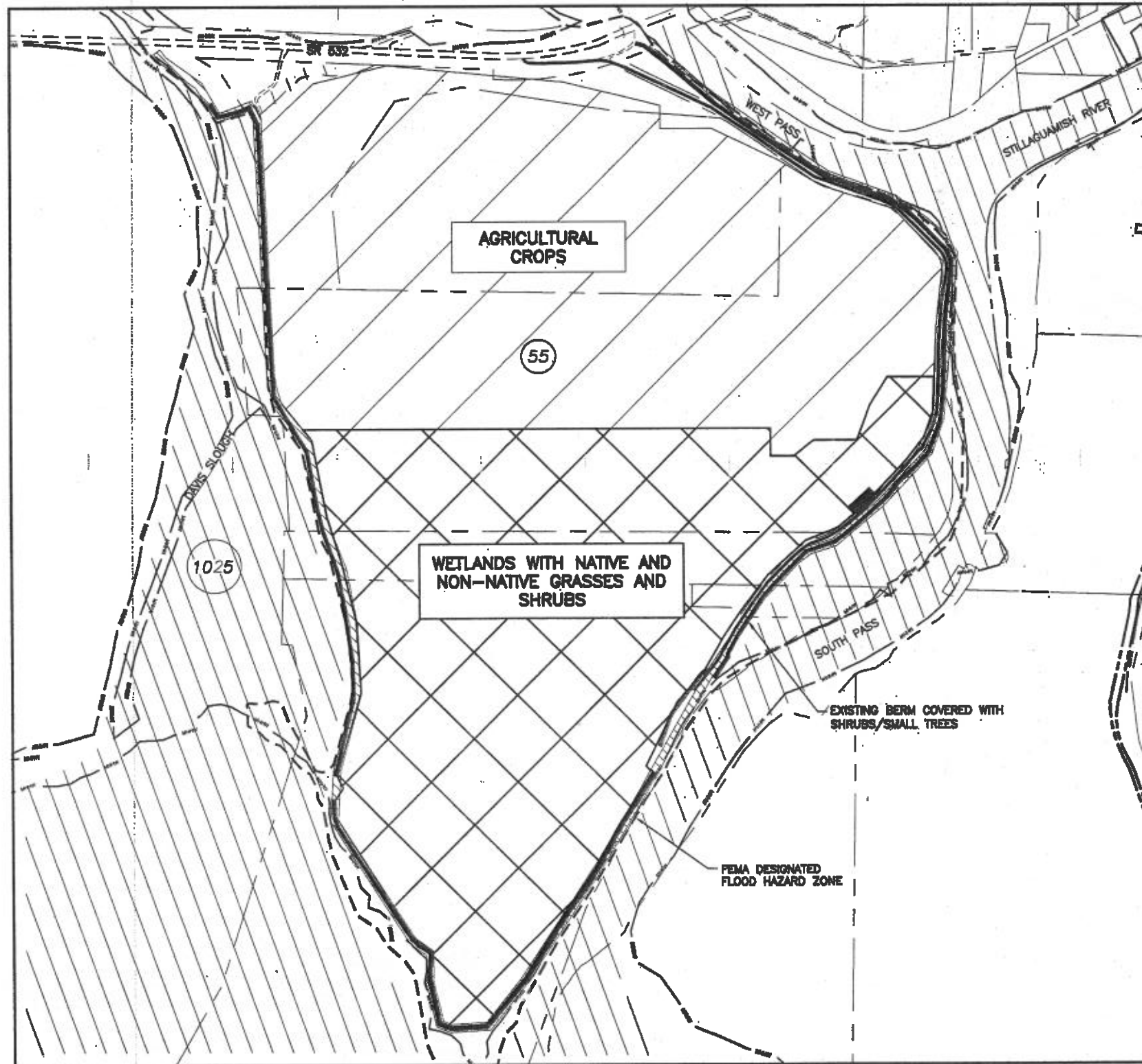


WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE



SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER			
DATE	4/29/12		

0" = 1" BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS		SKAGIT W.A. - LEQUE ISLAND UNIT		PROJECT NO. ST:R127:18-1	
ESTUARY RESTORATION PROJECT - PHASE II				SHEET OF	
SWPPP NOTES				3 29	



SOILS LEGEND
(from NRCS Soil Survey)

55 PUGET SILTY CLAY LOAM

1025 BEACHES - ENDOGAMUS, TIDAL XERORTHENTS ASSOCIATION

FEMA PANEL: 53061C0332E
ZONE: A10

LEGEND

RESOURCE SHORELINE ENVIRONMENT

AQUATIC SHORELINE ENVIRONMENT

FEMA DESIGNATED FLOOD HAZARD ZONE

PROPERTY LINE

EXISTING BERM

EXISTING EIDE ROAD

- NOTES:**
1. PROJECT AREA WITHIN THE FLOOD HAZARD ZONE IS ON A FEMA DESIGNATED "DENSITY FRINGE-AREA"
 2. THIS SHEET PROVIDES INFORMATION FOR SNOHOMISH COUNTY PERMITTING ONLY.



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BY:
RANDOLPH P. BURRITT, P.E., P.L.S.

PERMIT NO.:



WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE



BY	DATE	REVISION DESCRIPTION
SL		APPROVED AND RELEASED FOR CONSTRUCTION
SL		
SJR	2/21/18	
SJR	4/20/18	

0 1"
BAR MEASURES
ONE INCH ON
ORIGINAL DRAWINGS

SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
EXISTING CONDITIONS PLAN

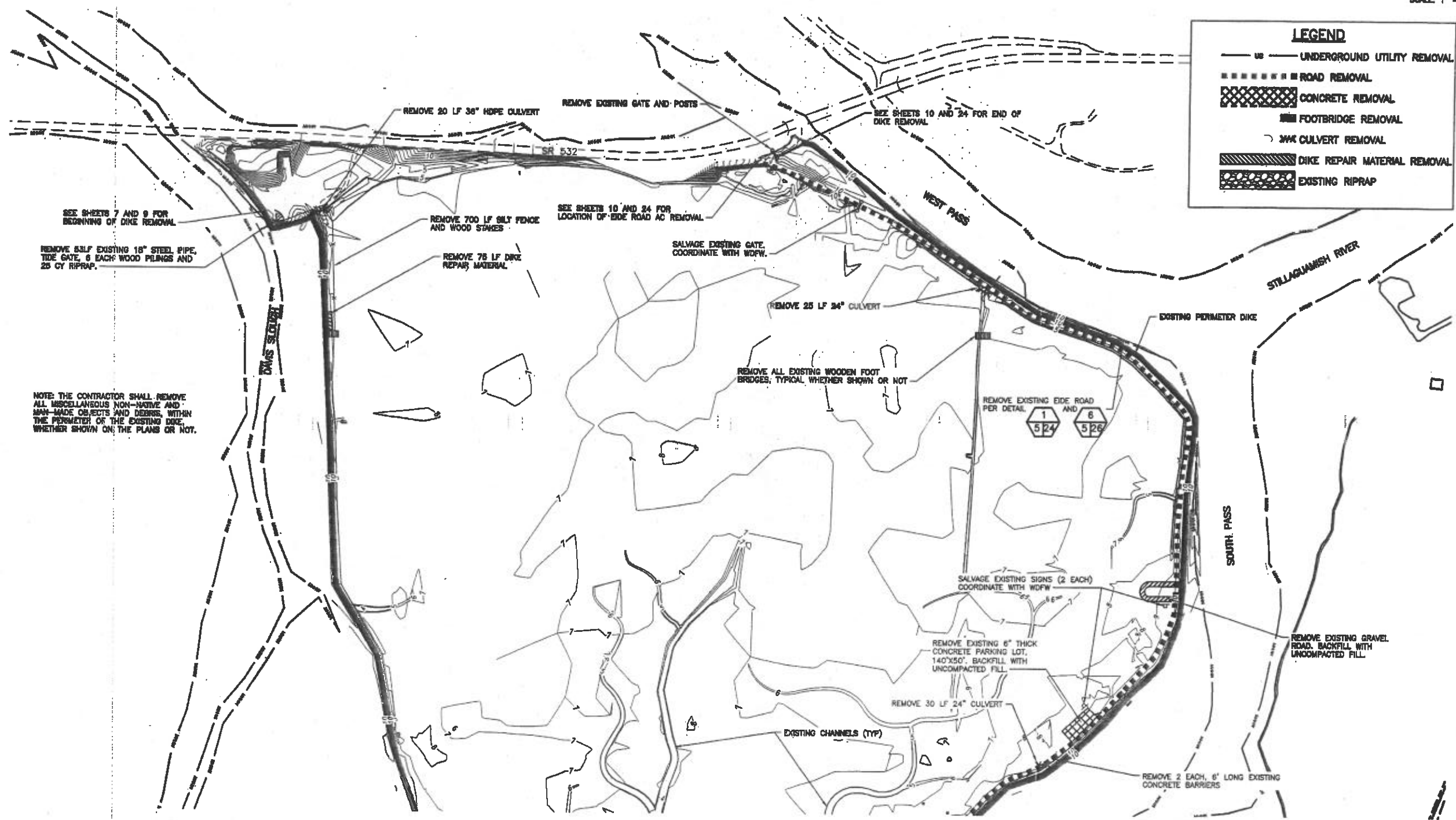
PROJECT NO.
ST:R127:18-1

SHEET 4 OF 29



LEGEND

- US — UNDERGROUND UTILITY REMOVAL
- ROAD REMOVAL
- ▣ CONCRETE REMOVAL
- ▤ FOOTBRIDGE REMOVAL
- ⤵ 24" CULVERT REMOVAL
- ▨ DIKE REPAIR MATERIAL REMOVAL
- ▩ EXISTING RIPRAP



SEE SHEETS 7 AND 9 FOR BEGINNING OF DIKE REMOVAL

REMOVE 53LF EXISTING 18" STEEL PIPE, TIDE GATE, 6 EACH WOOD PILINGS AND 25 CY RIPRAP.

NOTE: THE CONTRACTOR SHALL REMOVE ALL MISCELLANEOUS NON-NATIVE AND MAN-MADE OBJECTS AND DEBRIS, WITHIN THE PERIMETER OF THE EXISTING DIKE, WHETHER SHOWN ON THE PLANS OR NOT.

SEE SHEETS 10 AND 24 FOR LOCATION OF EIDE ROAD AC REMOVAL

SEE SHEETS 10 AND 24 FOR END OF DIKE REMOVAL

SALVAGE EXISTING GATE, COORDINATE WITH WDFW.

REMOVE EXISTING EIDE ROAD PER DETAIL 524 AND 526

REMOVE EXISTING 6" THICK CONCRETE PARKING LOT, 140'X50', BACKFILL WITH UNCOMPACTED FILL

 **Utility Notification Center**
CALL BEFORE YOU DIG

SNOHOMISH COUNTY PLANNING DEPT. SERVICES
APPROVED FOR CONSTRUCTION

BY: **RANDOLPH P. SLIGHT, P.E., P.L.B.**

PERMIT NO: _____

Unauthorized Changes & Use
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.



WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE



SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER			DATE: 28 April
PROGRAM			DATE: 4/2019

0 ——— 1" BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS

SKAGIT W.A. — LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT — PHASE II
DEMOLITION PLAN 1

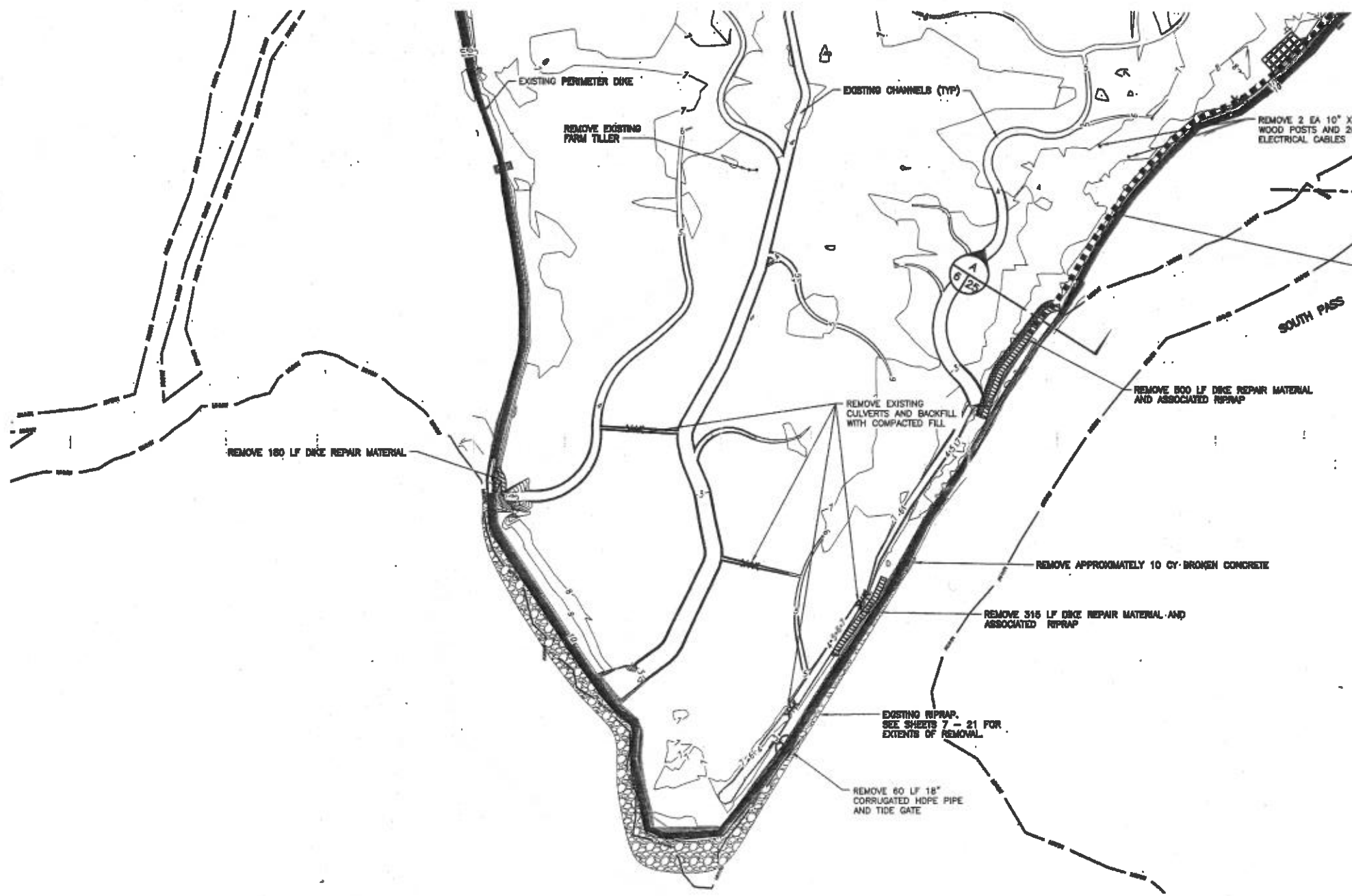
PROJECT NO. **ST:R127:18-1**

SHEET **5** OF **29**




LEGEND

- UNDERGROUND UTILITY REMOVAL
- ***** ROAD REMOVAL
- FOOTBRIDGE REMOVAL
- ▨ CULVERT REMOVAL
- ▩ DIKE REPAIR MATERIAL REMOVAL
- ▧ EXISTING RIPRAP
- ▦ EXISTING ROCK ROAD BASE



NOTE: THE CONTRACTOR SHALL REMOVE ALL MISCELLANEOUS NON-NATIVE AND MAN-MADE OBJECTS AND DEBRIS, WITHIN THE PERIMETER OF THE EXISTING DIKE, WHETHER SHOWN ON THE PLANS OR NOT.

 **Utility Notification Center
CALL BEFORE YOU DIG**

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**SNOHOMISH COUNTY PLANNING DEPT. SERVICES
APPROVED FOR CONSTRUCTION**

BY:
RANDOLPH P. GLEIGHT, P.E., P.L.S.

PERMIT NO: _____



**WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE**



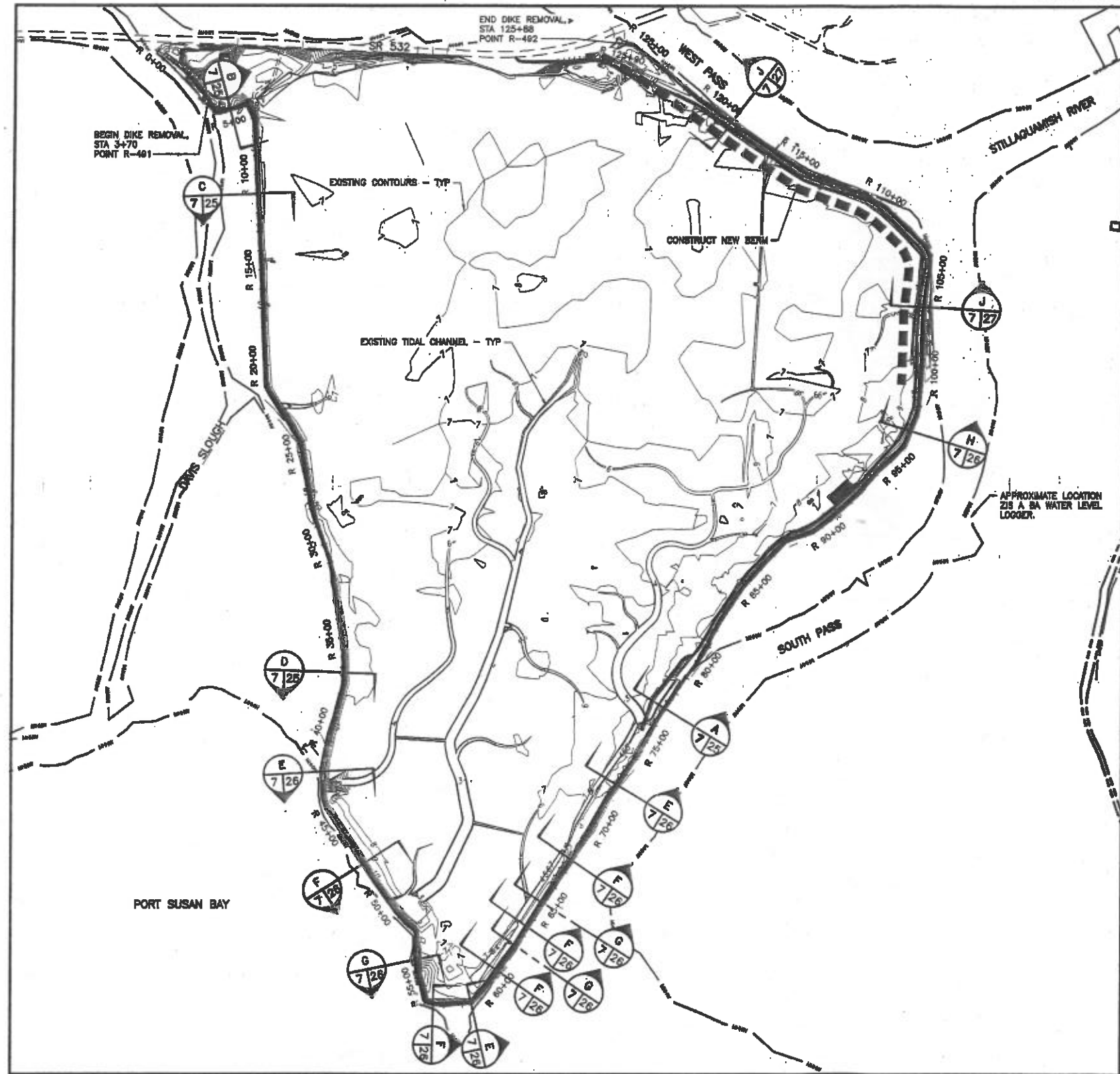
SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER			DATE: 2/29/19
PROGRAM			DATE: 4/2019

0" = 1"
BAR MEASURES
ONE INCH ON
ORIGINAL DRAWINGS

**SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
DEMOLITION PLAN 2**

PROJECT NO.
ST:R127:18-1

SHEET 6 OF 29



LEGEND

———— DIKE REMOVAL

———— CONSTRUCT NEW BERM



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SKAGIT COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION

BY:
 RANDOLPH P. SLEIGHT, P.E., P.L.B.

PERMIT NO.:



WASHINGTON STATE
 DEPARTMENT OF FISH AND WILDLIFE

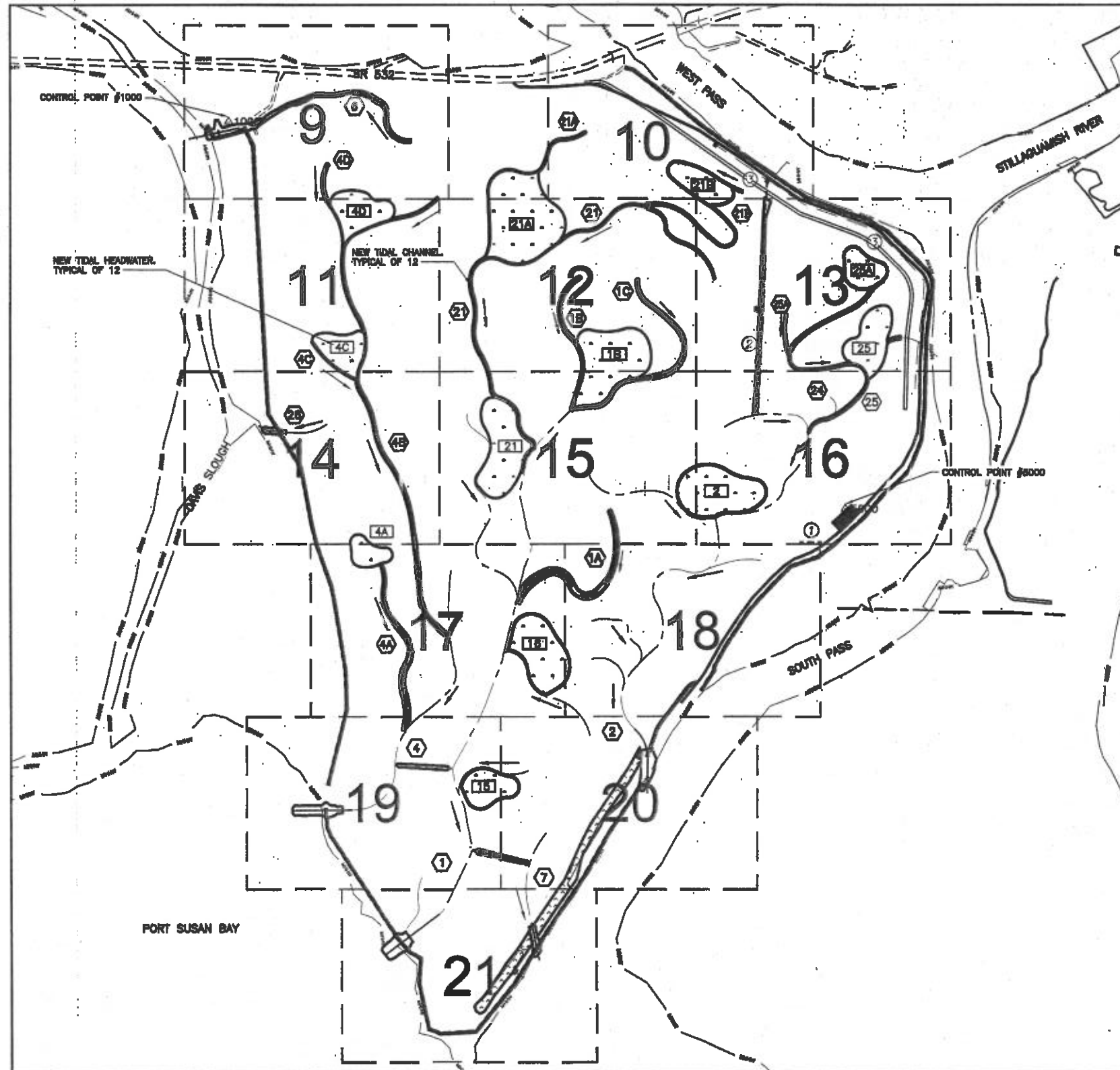


SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
DESIGNED BY	SL	DATE	2/28/19
CHECKED BY	SL	DATE	
DRAWN BY	SJP	DATE	4/2/19

SKAGIT W.A. - LEQUE ISLAND UNIT
 ESTUARY RESTORATION PROJECT - PHASE II
 DIKE REMOVAL PLAN

PROJECT NO.
 ST:R127:18-1

SHEET OF
 7 29



LEGEND

- EXISTING DITCH
- FILL EXISTING DITCH WITH COMPACTED FILL
- FILL BORROW AREAS/DITCHES WITH PACKED FILL
- ② EXISTING DITCH NUMBER
- EXISTING TIDAL CHANNEL
- EXCAVATED TIDAL CHANNEL
- ⑭ TIDAL CHANNEL NUMBER
- ⑳ TIDAL HEADWATER AREA
- DIRECTION OF CHANNEL FLOW
- TIDAL HEADWATERS



CONTROL POINT DATA

POINT #	NORTHING	EASTING	ELEVATION	FULL DESCRIPTION	LONGITUDE	LATITUDE
1000	488823.85	128016.16	8.22	WDPW CONTROL 3/4" REBAR AND CAP	W122° 23' 32.68"	N46° 14' 20.82"
8000	453805.85	1263738.32	8.43	DU CONTROL POINT, REBAR WITH CAP	W122° 22' 44.82"	N46° 14' 01.33"



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SHOHEMISH COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION

BY: RANDOLPH P. SLEIGHT, P.E., P.L.S.

PERMIT NO: _____



WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE



SYM	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	

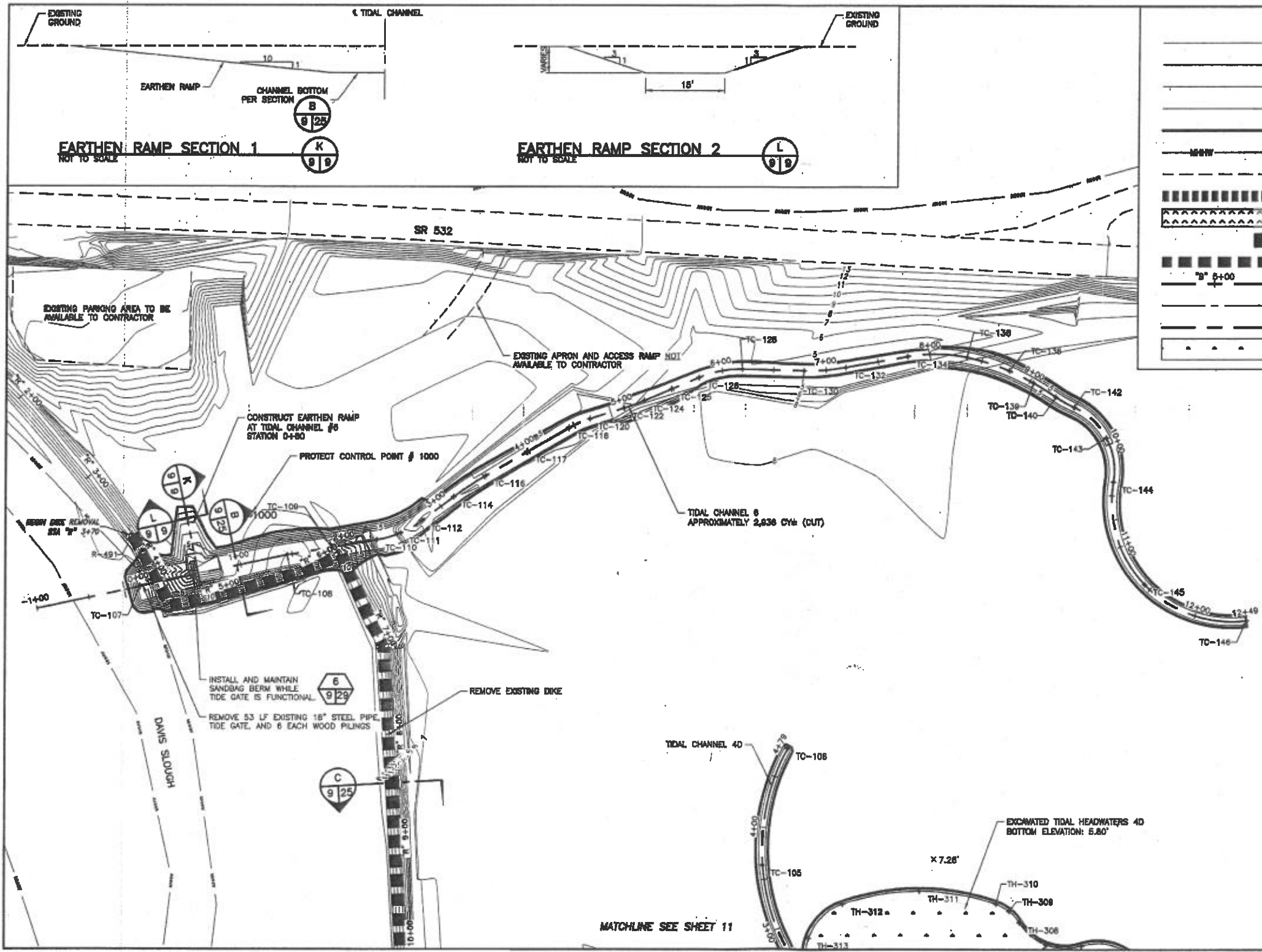
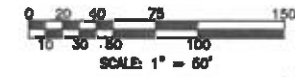
0 = 1" BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS

DESIGNED BY: SL
 CHECKED BY: SL
 DRAWN BY: SR
 DATE: 4/2019

SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
GRADING PLAN & INDEX SHEET

PROJECT NO.
 ST:R127:18-1

SHEET OF
 8 29



LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXCAVATION LIMITS
- MHW
- EXISTING ROAD
- FILL EXISTING DITCH
- FILL BORROW AREAS
- DITCH PLUG
- DIKE REMOVAL
- PROPOSED BERM
- EXISTING TIDAL CHANNEL
- EXCAVATED TIDAL CHANNEL
- EXCAVATED TIDAL HEADWATERS

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SKAGIT COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION

BY: RANDOLPH P. ALRIGHT, P.E., P.L.S.

PERMIT NO: _____



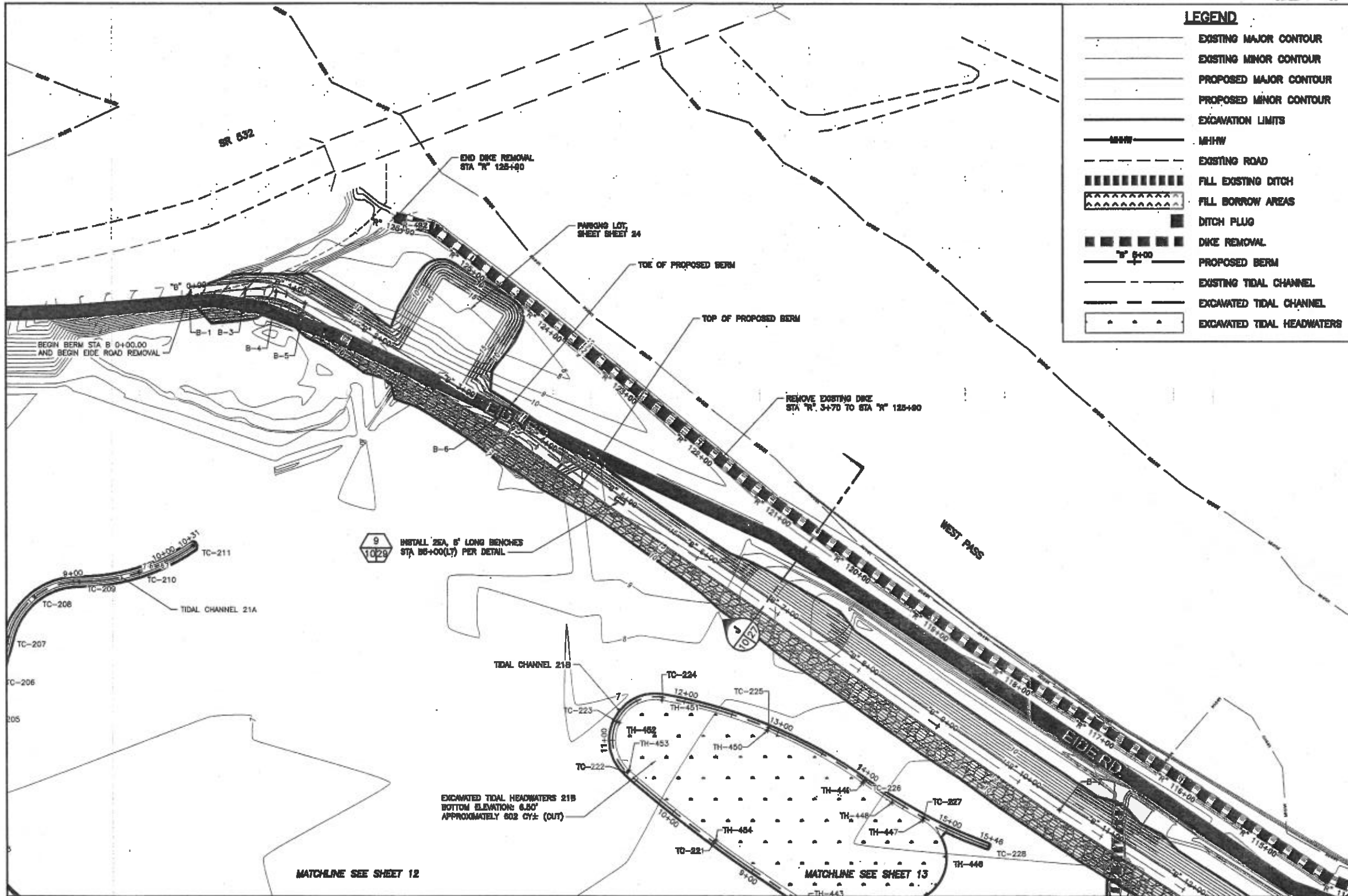
WASHINGTON STATE
 DEPARTMENT OF FISH AND WILDLIFE



SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
DESIGNED BY	SL	DATE	2/28/19
CHECKED BY	SL	DATE	
DRAWN BY	SJR	DATE	4/2019
PROJECT	SWD	DATE	

SKAGIT W.A. -- LEQUE ISLAND UNIT
 ESTUARY RESTORATION PROJECT -- PHASE II
 GRADING PLAN 1

PROJECT NO.	ST:R127:18-1
SHEET	OF
9	29

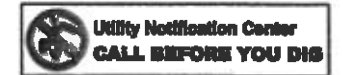


LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXCAVATION LIMITS
- MHW
- EXISTING ROAD
- FILL EXISTING DITCH
- FILL BORROW AREAS
- DITCH PLUG
- DIKE REMOVAL
- PROPOSED BERM
- EXISTING TIDAL CHANNEL
- EXCAVATED TIDAL CHANNEL
- EXCAVATED TIDAL HEADWATERS



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SKAGIT COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION

BY: RANOLPH P. BLIGHT, P.E., P.L.B.

PERMIT NO. _____

MATCHLINE SEE SHEET 12

MATCHLINE SEE SHEET 13



WASHINGTON STATE
 DEPARTMENT OF FISH AND WILDLIFE

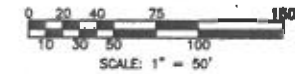


SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
DESIGNED BY		SL	
CHECKED BY		SL	
DRAWN BY		SJR	
DATE	4/2018		

0" = 1"
 BAR MEASURES
 ONE INCH ON
 ORIGINAL DRAWINGS

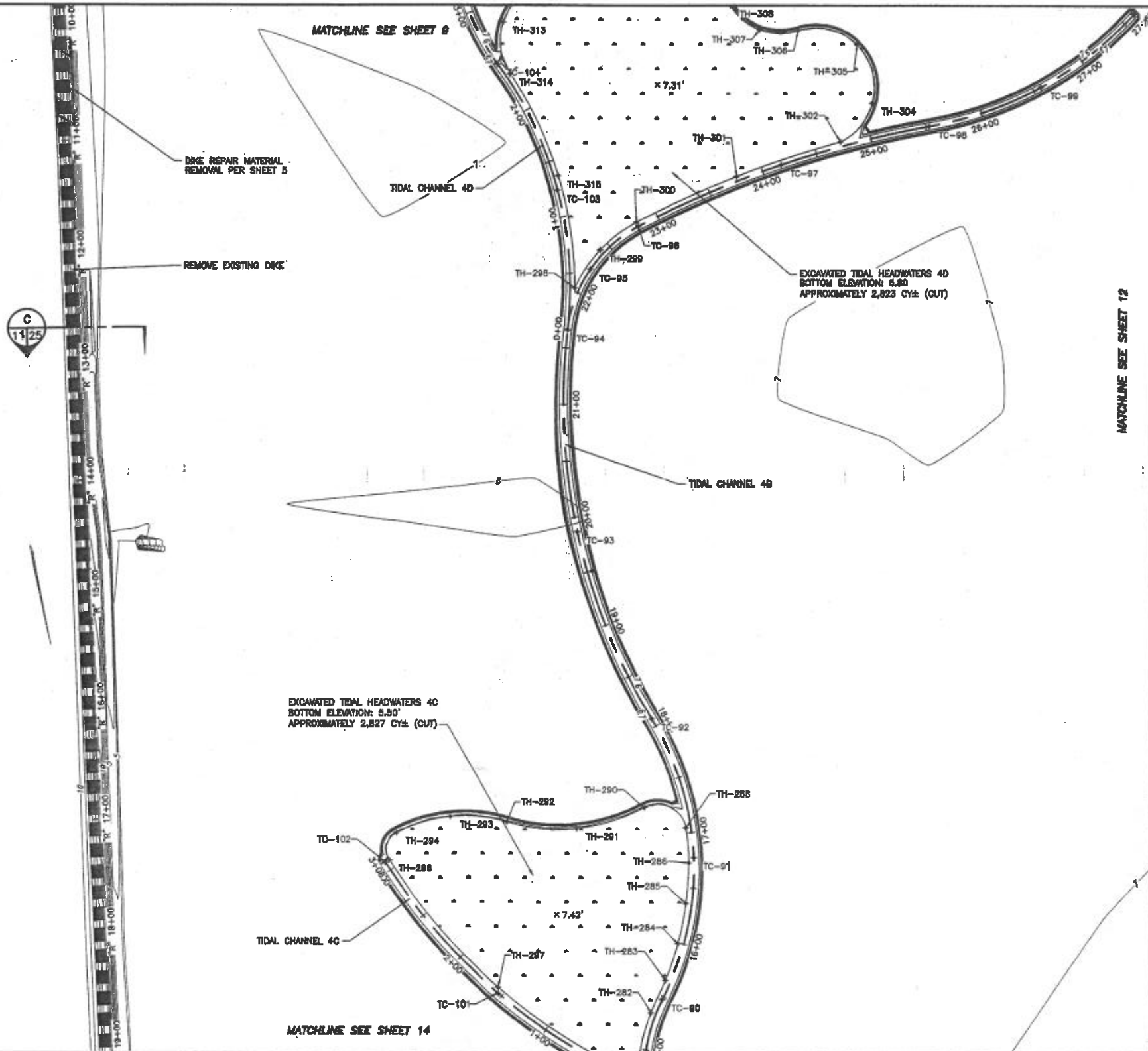
SKAGIT W.A. - LEQUE ISLAND UNIT
 ESTUARY RESTORATION PROJECT - PHASE II
 GRADING PLAN 2

PROJECT NO. ST:R127:18-1	
SHEET	OF
10	29



LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXCAVATION LIMITS
- M-H-W
- EXISTING ROAD
- FILL EXISTING DITCH
- FILL BORROW AREAS
- DITCH PLUG
- DIKE REMOVAL
- PROPOSED BERM
- EXISTING TIDAL CHANNEL
- EXCAVATED TIDAL CHANNEL
- EXCAVATED TIDAL HEADWATERS



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SNOWHOMISH COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION
 BY: RANDOLPH P. BLEIGHT, P.E., P.L.B.
 PERMIT NO.:



WASHINGTON STATE
 DEPARTMENT OF FISH AND WILDLIFE



SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER		DATE: 2/24/18	
PROGRAM		DATE: 4/2019	

0" = 1"
 BAR MEASURES
 ONE INCH ON
 ORIGINAL DRAWINGS

SKAGIT W.A. - LEQUE ISLAND UNIT
 ESTUARY RESTORATION PROJECT - PHASE II
 GRADING PLAN 3

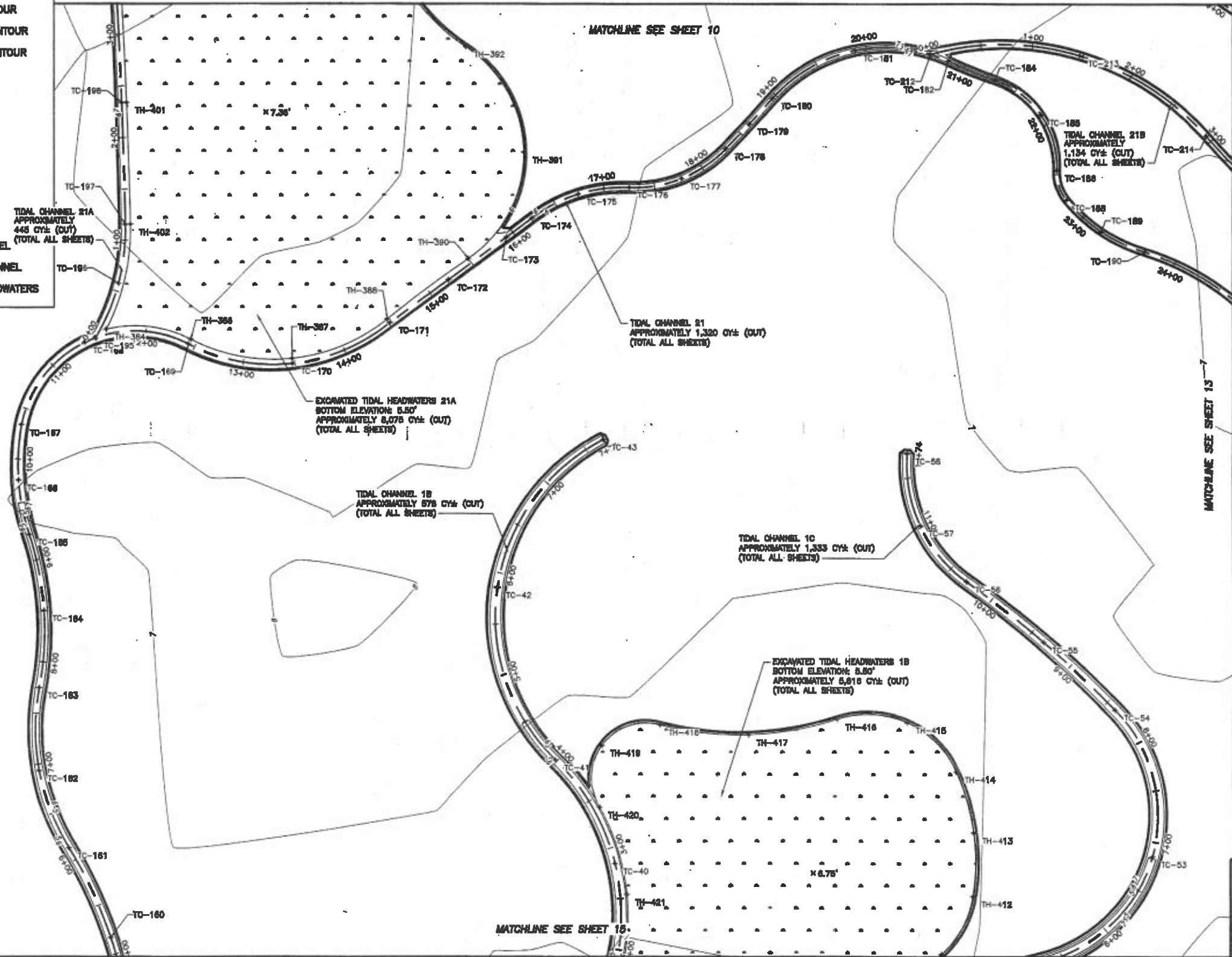
PROJECT NO.
 ST:R127:18-1

SHEET OF
 11 29



LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXCAVATION LIMITS
- MHW
- EXISTING ROAD
- FILL EXISTING DITCH
- FILL BORROW AREAS
- DITCH PLUG
- DIKE REMOVAL
- PROPOSED SEWM
- EXISTING TIDAL CHANNEL
- EXCAVATED TIDAL CHANNEL
- EXCAVATED TIDAL HEADWATERS



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SKAGIT COUNTY PLANNING DEPT. SERVICES
APPROVED FOR CONSTRUCTION

BY:
RANDOLPH P. MURPHY, P.E., P.L.S.

PERMIT NO.:



WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE



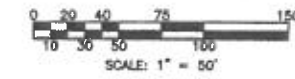
SYM	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	

DESIGNED BY: SL
CHECKED BY: SL
DRAWN BY: S-M
DATE: 4/2019

0 1"
BAR MEASURES
ONE INCH ON
ORIGINAL DRAWINGS

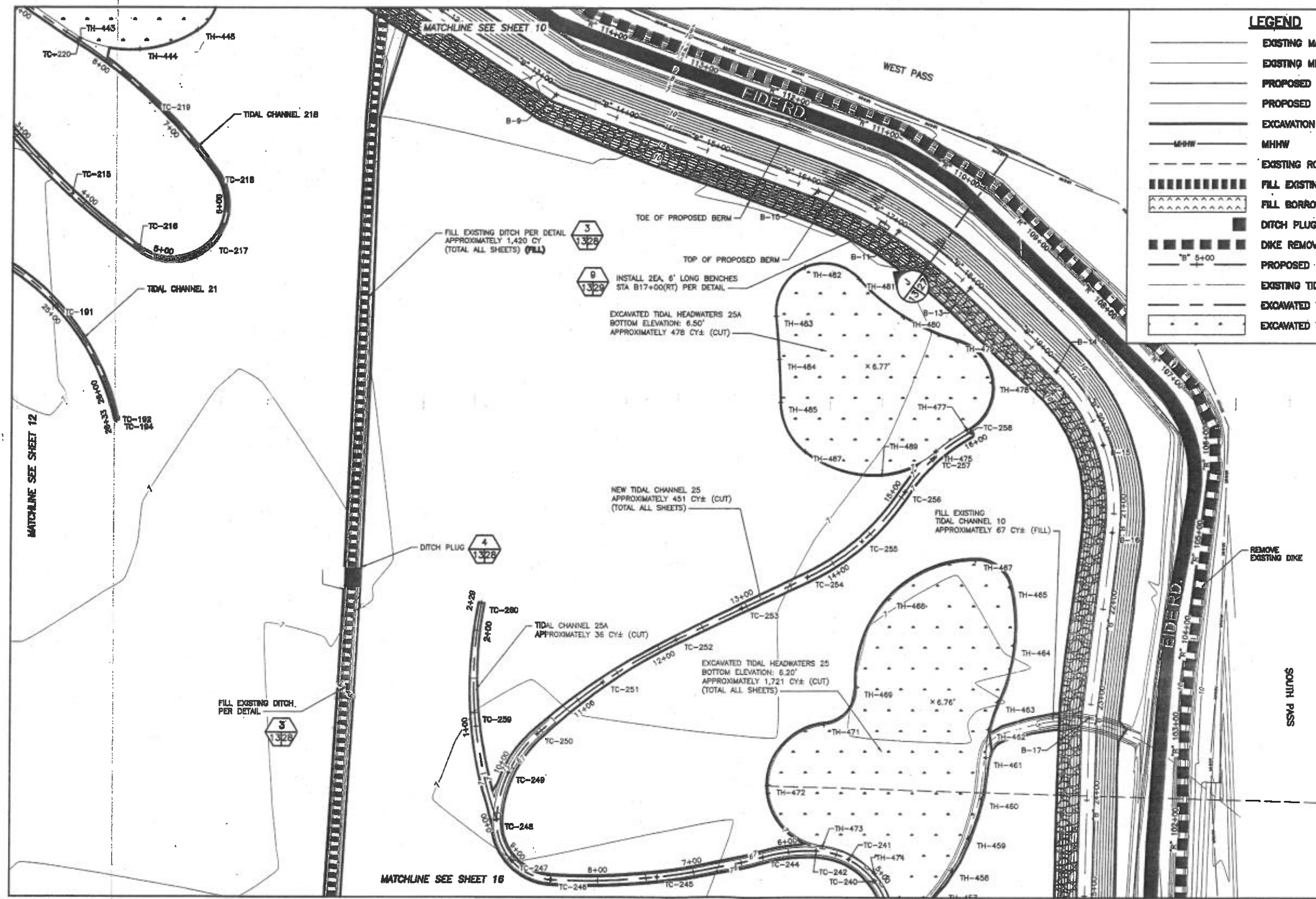
SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
GRADING PLAN 4

PROJECT NO. ST:R127:18-1	
SHEET	OF
12	29



LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXCAVATION LIMITS
- MHW
- EXISTING ROAD
- FILL EXISTING DITCH
- FILL BORROW AREAS
- DITCH PLUG
- DIKE REMOVAL
- PROPOSED BERM
- EXISTING TIDAL CHANNEL
- EXCAVATED TIDAL CHANNEL
- EXCAVATED TIDAL HEADWATERS



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SNOHOMISH COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION

BY: **RANDOLPH P. SLIGHT, P.E., P.L.B.**

PERMIT NO: _____



WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE

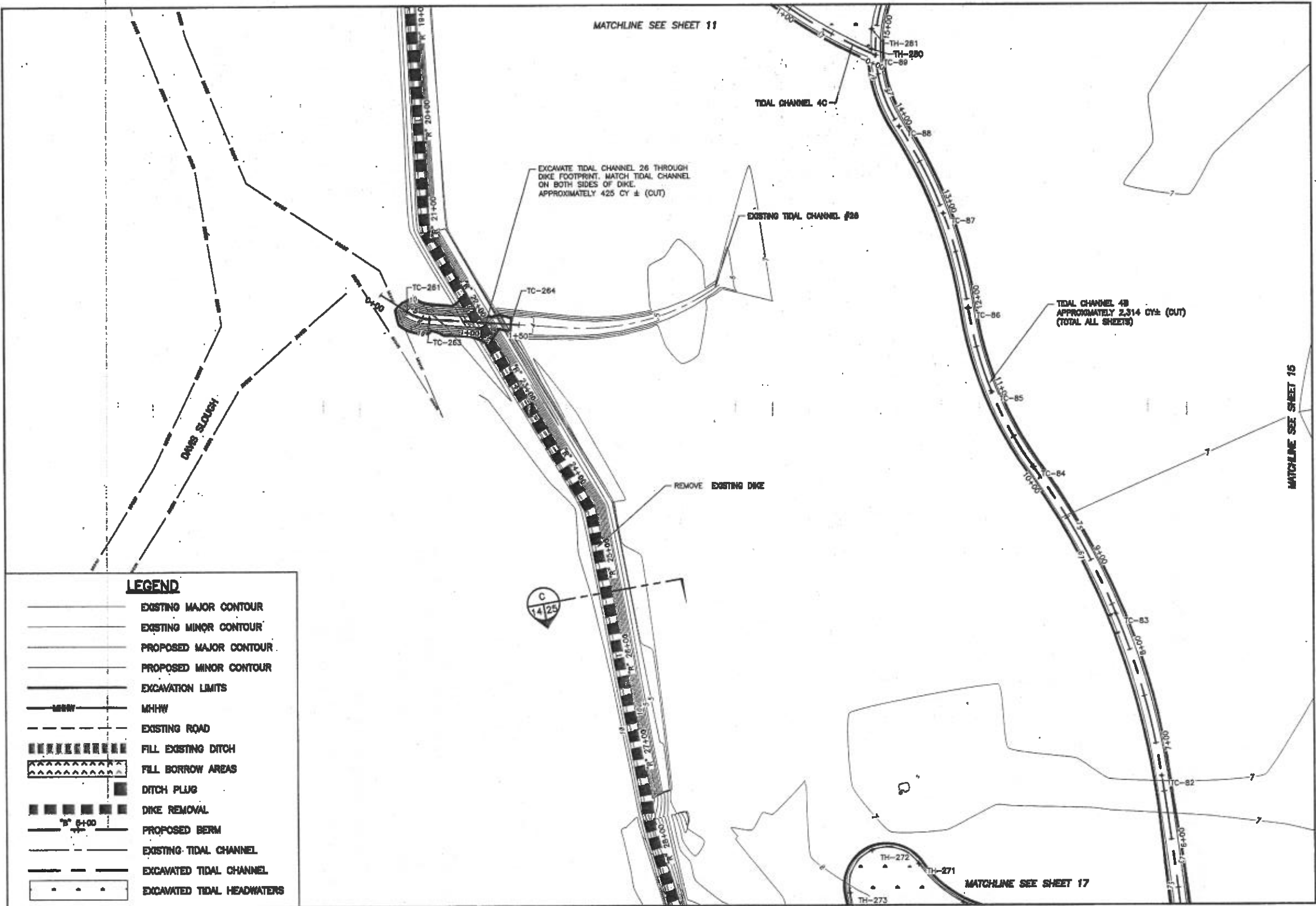


SYM	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	
CHIEF ENGINEER		<i>Phd</i>	DATE: 2/20/19
DRAWN BY			DATE: 4/2019

0" = 1"
 BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS

SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
GRADING PLAN 5

PROJECT NO. ST:R127:18-1	
SHEET	OF
13	29



LEGEND

	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXCAVATION LIMITS
	MHHW
	EXISTING ROAD
	FILL EXISTING DITCH
	FILL BORROW AREAS
	DITCH PLUG
	DIKE REMOVAL
	PROPOSED BERM
	EXISTING TIDAL CHANNEL
	EXCAVATED TIDAL CHANNEL
	EXCAVATED TIDAL HEADWATERS

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SNOHOMISH COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION
 BY:
 RANDOLPH P. WRIGHT, P.E., P.L.S.
 PERMIT NO. _____



WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE

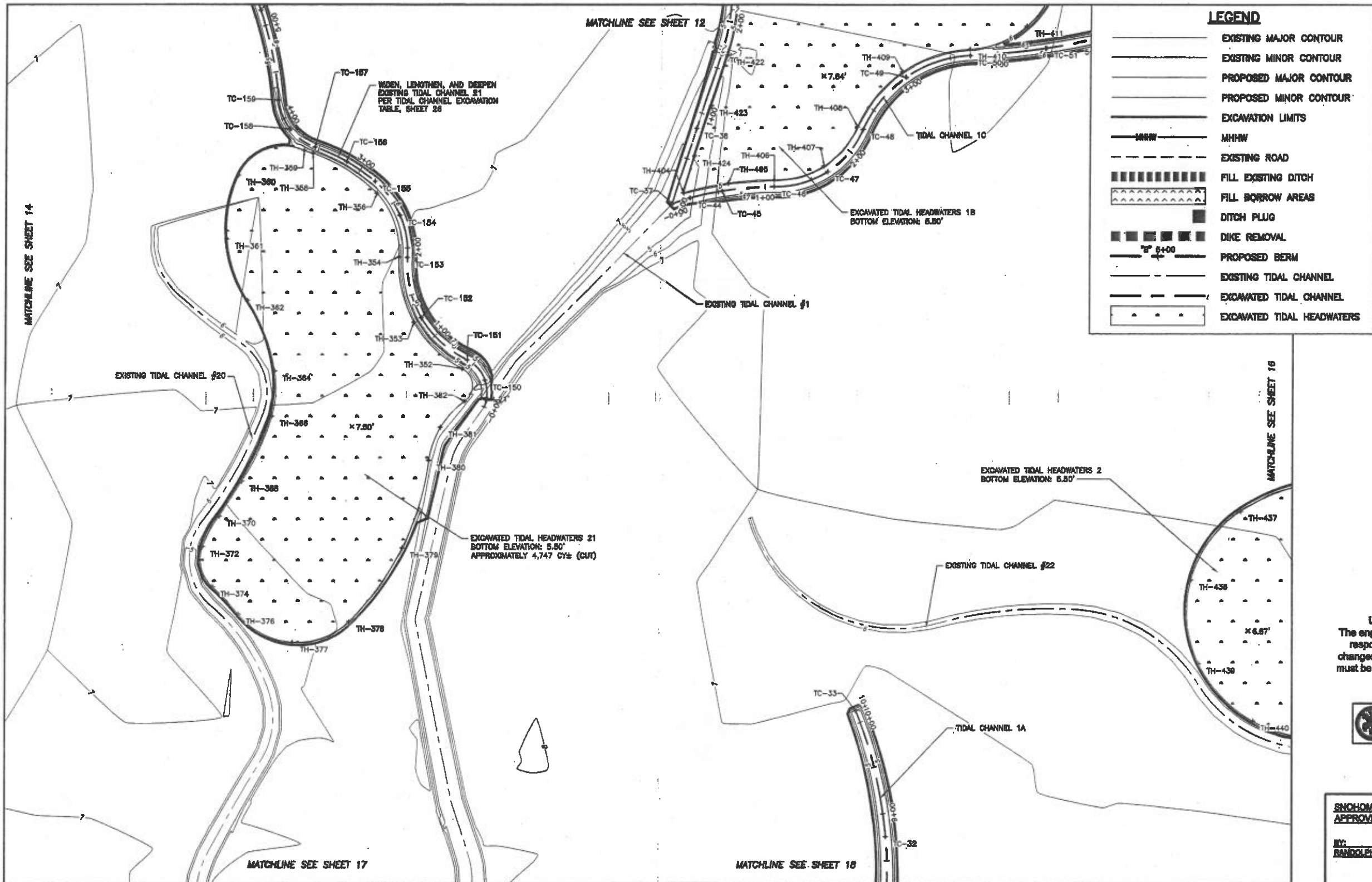


BY	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	
DESIGN ENGINEER	10.15.19		DATE: 2/14/19
PROGRAM			DATE: 4/2019

0 1"
 BAR MEASURES
 ONE INCH ON
 ORIGINAL DRAWINGS

SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
GRADING PLAN 6

PROJECT NO. ST:R127:18-1	
SHEET	OF
14	29



LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXCAVATION LIMITS
- MHW
- EXISTING ROAD
- ▨ FILL EXISTING DITCH
- ▨ FILL BORROW AREAS
- DITCH PLUG
- DIKE REMOVAL
- PROPOSED BERM
- EXISTING TIDAL CHANNEL
- EXCAVATED TIDAL CHANNEL
- ▨ EXCAVATED TIDAL HEADWATERS



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SNOHOMISH COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION

BY: RANDOLPH P. GLEIGHT, P.E., P.L.S.

PERMIT NO: _____



WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE

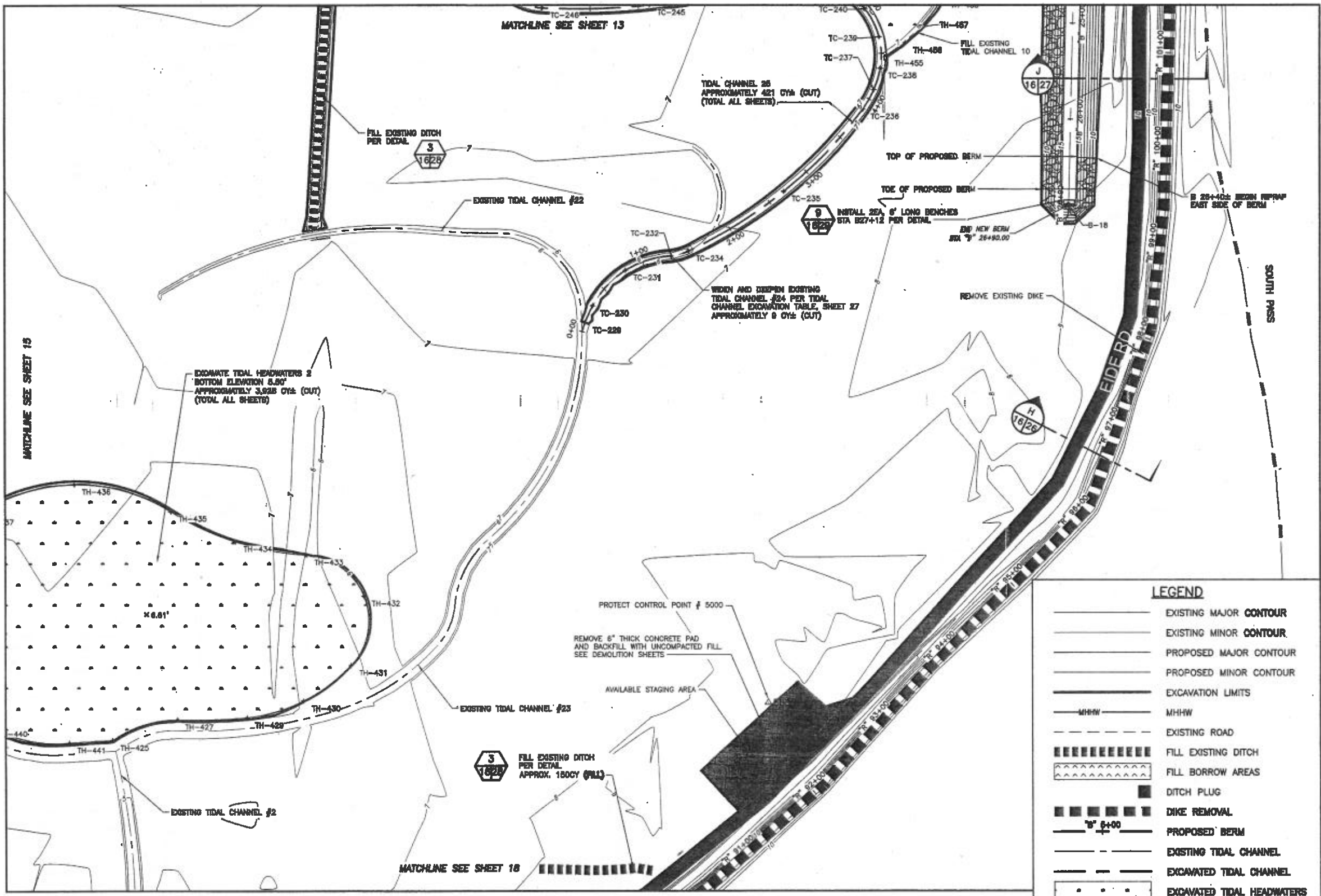


SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	<u>[Signature]</u>	DATE: <u>2/28/12</u>	
DESIGNED BY	SL	CHECKED BY	SL
DRAWN BY	SJR	DATE	4/2012

SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
GRADING PLAN 7

PROJECT NO.
 ST:R127:18-1

SHEET OF
 15 29



LEGEND

	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXCAVATION LIMITS
	MHW
	EXISTING ROAD
	FILL EXISTING DITCH
	FILL BORROW AREAS
	DITCH PLUG
	DIKE REMOVAL
	PROPOSED BERM
	EXISTING TIDAL CHANNEL
	EXCAVATED TIDAL CHANNEL
	EXCAVATED TIDAL HEADWATERS

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SKAGIT COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION

BY:
 RANDOLPH P. BRIGHT, P.E., P.L.S.

PERMIT NO: _____



WASHINGTON STATE
 DEPARTMENT OF FISH AND WILDLIFE

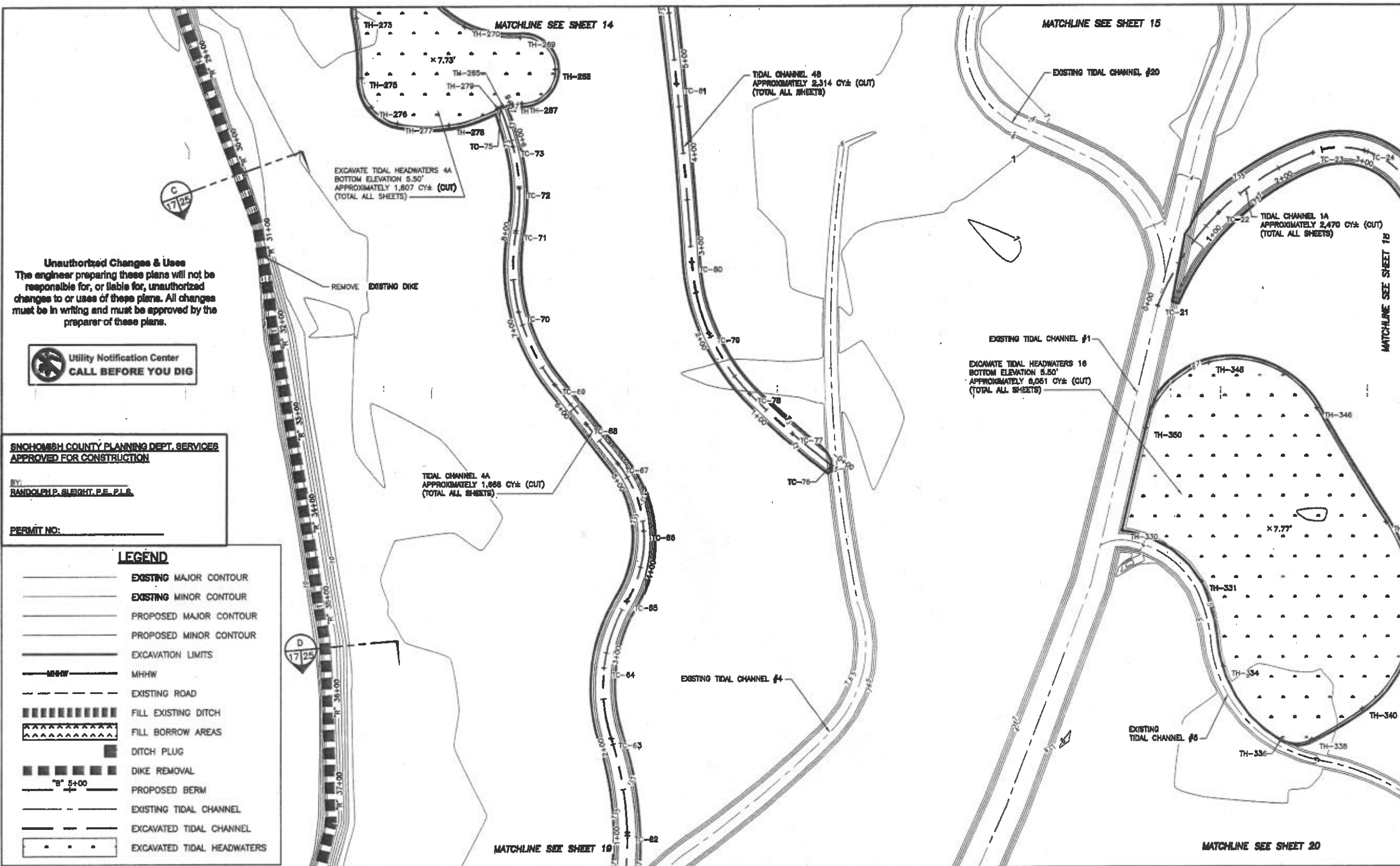


SYM	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	
		DESIGNED BY: SL	
		CHECKED BY: SL	
		DRAWN BY: SJP	
		DATE: 1/20/19	

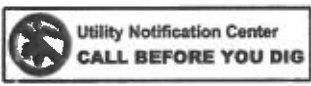
0 1" BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS

SKAGIT W.A. - LEQUE ISLAND UNIT
 ESTUARY RESTORATION PROJECT - PHASE II
 GRADING PLAN 8

PROJECT NO. ST:R127:18-1	
SHEET 16	OF 29



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SNOHOMISH COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION

BY: RANDOLPH P. SLIGHT, P.E., P.L.S.

PERMIT NO: _____

LEGEND

	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXCAVATION LIMITS
	MHW
	EXISTING ROAD
	FILL EXISTING DITCH
	FILL BORROW AREAS
	DITCH PLUG
	DIKE REMOVAL
	PROPOSED BERM
	EXISTING TIDAL CHANNEL
	EXCAVATED TIDAL CHANNEL
	EXCAVATED TIDAL HEADWATERS



WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE



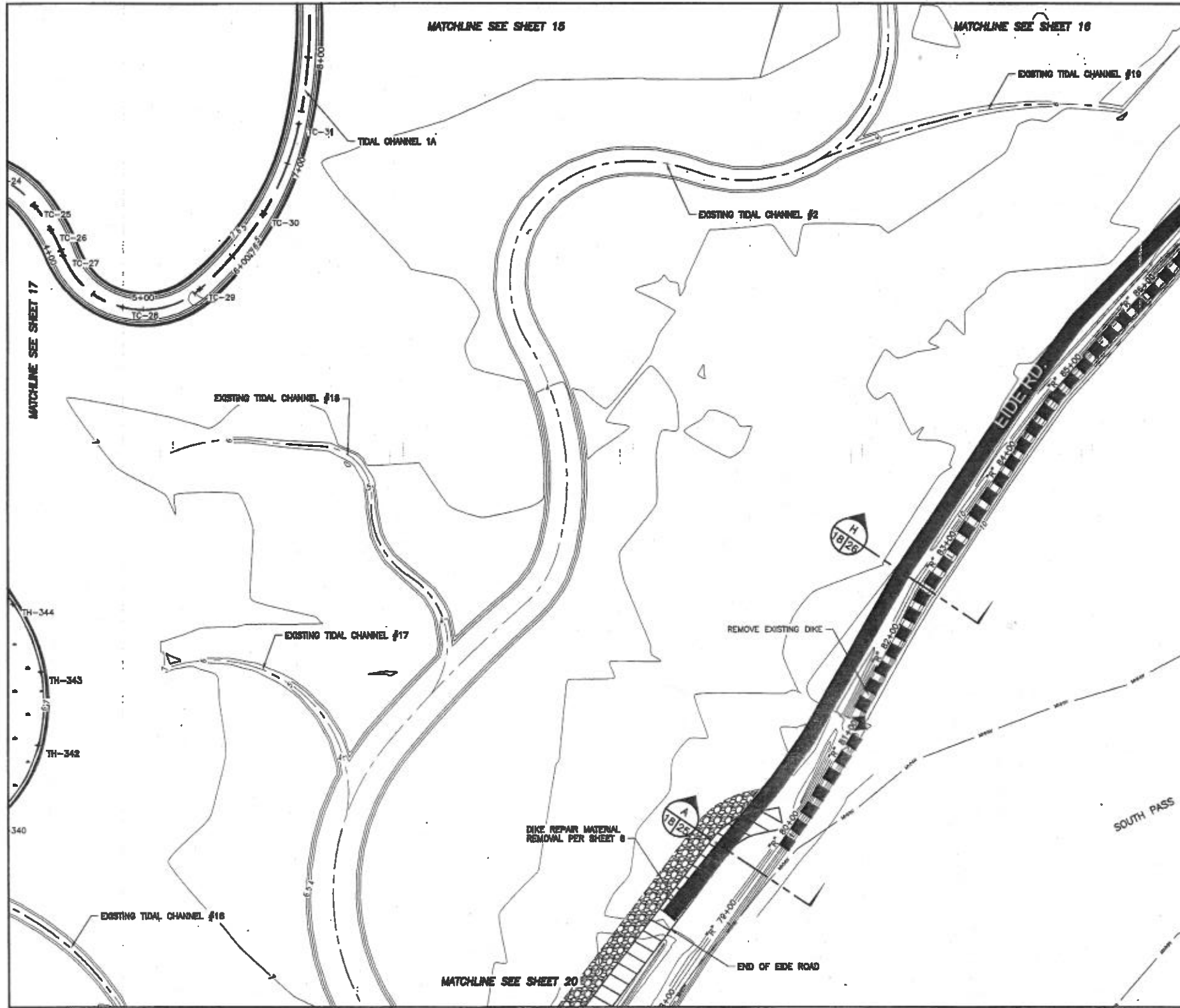
BY	DATE	REVISION DESCRIPTION	BY
		APPROVED FOR RELEASED FOR CONSTRUCTION	
CHIEF ENGINEER			
PROGRAM			

0 1" BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS

DESIGNED BY: SL
 CHECKED BY: SL
 DRAWN BY: SLR
 DATE: 4/2018

SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
GRADING PLAN 9

PROJECT NO. ST:R127:18-1	
SHEET	OF
17	29



LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXCAVATION LIMITS
- MHW
- EXISTING ROAD
- FILL EXISTING DITCH
- FILL BORROW AREAS
- DITCH PLUG
- DIKE REMOVAL
- PROPOSED BERM
- EXISTING TIDAL CHANNEL
- EXCAVATED TIDAL CHANNEL
- EXCAVATED TIDAL HEADWATERS

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SKAGIT COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION
 BY: RANDOLPH P. BAUGHT, P.E., P.L.S.
 PERMIT NO. _____



WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE

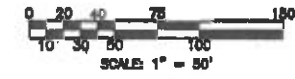


SYM	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	
CHIEF ENGINEER			
DESIGNED BY			
CHECKED BY			
DRAWN BY			
DATE	4/2010		

0 = 1"
 BAR MEASURES
 ONE INCH ON
 ORIGINAL DRAWINGS

SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
 GRADING PLAN 10

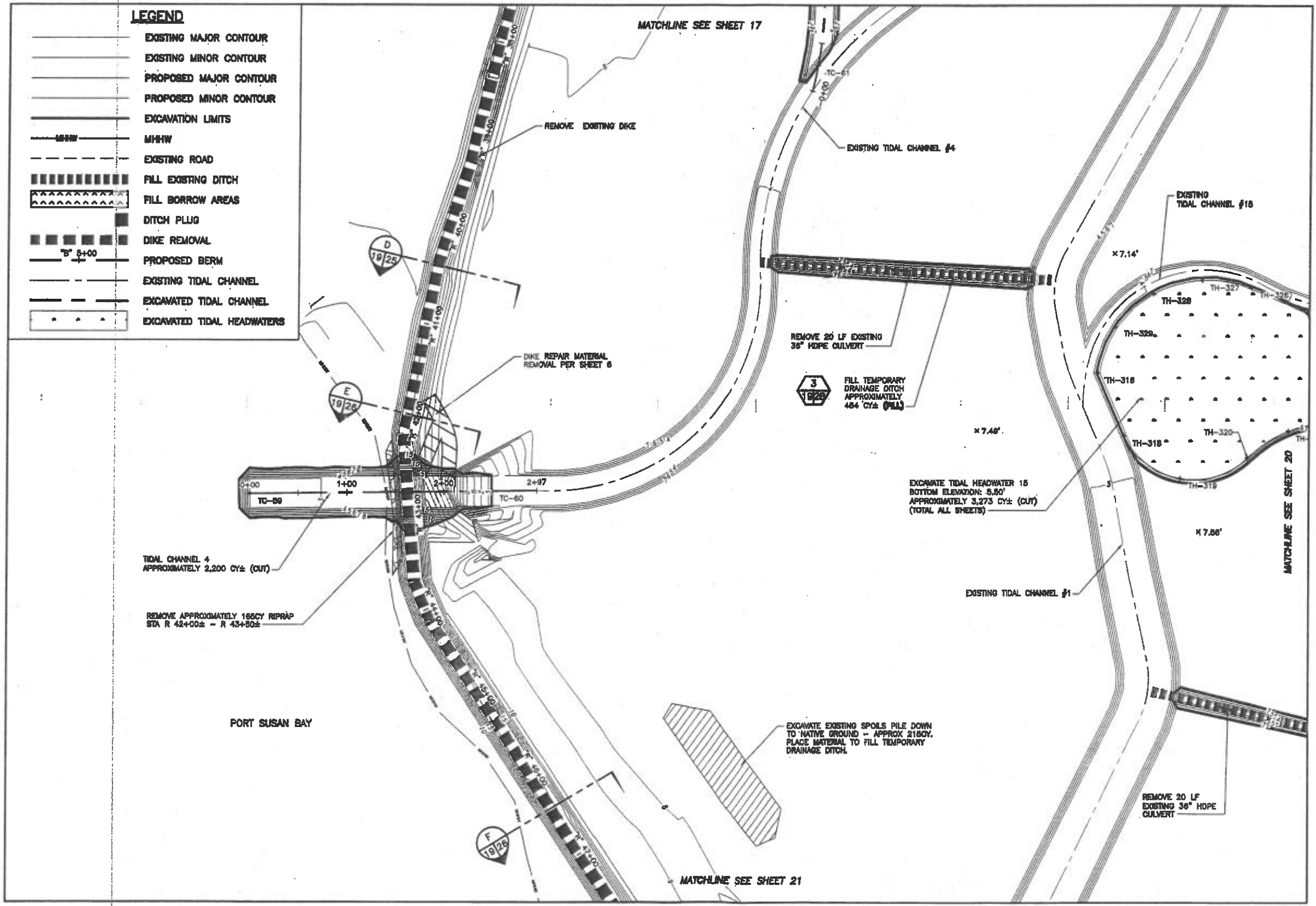
PROJECT NO.
 ST:R127:18-1
 SHEET OF
 18 29



- NOTES:**
1. RIPRAP REMOVAL QUANTITIES SHOWN ON ALL SHEETS ARE NEAT-LINE ESTIMATES ONLY. THE ACTUAL VOLUME OF REUSABLE RIPRAP WILL VARY.
 2. RIPRAP SMALLER THAN 12" NEED NOT BE REMOVED, AND MAY BE MIXED WITH SOIL THAT IS TO BE SPREAD AND/OR USED AS FILL MATERIAL IN DITCHES AND BORROW AREAS.

LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXCAVATION LIMITS
- MHHW
- EXISTING ROAD
- FILL EXISTING DITCH
- FILL BORROW AREAS
- DITCH PLUG
- DIKE REMOVAL
- PROPOSED BERM
- EXISTING TIDAL CHANNEL
- EXCAVATED TIDAL CHANNEL
- EXCAVATED TIDAL HEADWATERS



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SKAGIT COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION

BY: RANDOLPH P. SLIGHT, P.E., P.L.S.

PERMIT NO. _____



WASHINGTON STATE
 DEPARTMENT OF FISH AND WILDLIFE



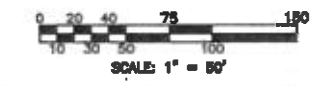
BY	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
DESIGNED BY	SL	CHECKED BY	SL
DRAWN BY	SJR	DATE	4/2019

0" = 1"
 BAR MEASURES
 ONE INCH ON
 ORIGINAL DRAWINGS

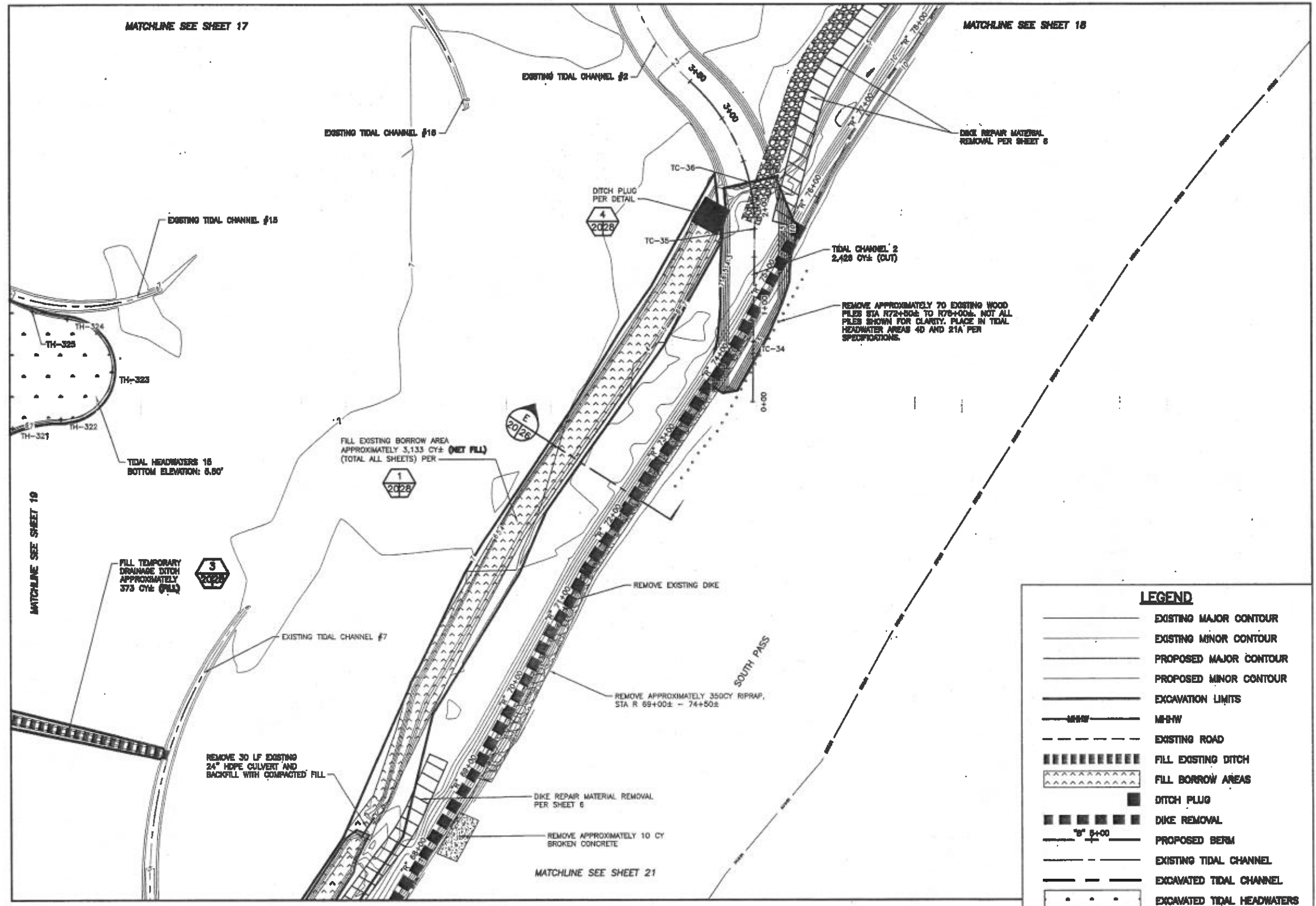
SKAGIT W.A. - LEQUE ISLAND UNIT
 ESTUARY RESTORATION PROJECT - PHASE II
 GRADING PLAN 11

PROJECT NO.
 ST:R127:18-1

SHEET	OF
19	29



- NOTES:**
1. RIPRAP REMOVAL QUANTITIES SHOWN ON ALL SHEETS ARE NEAT-LINE ESTIMATES ONLY. THE ACTUAL VOLUME OF REUSABLE RIPRAP WILL VARY.
 2. RIPRAP SMALLER THAN 12" NEED NOT BE REMOVED, AND MAY BE MIXED WITH SOIL THAT IS TO BE SPREAD AND/OR USED AS FILL MATERIAL IN DITCHES AND BORROW AREAS.



LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXCAVATION LIMITS
- M-HW
- EXISTING ROAD
- FILL EXISTING DITCH
- FILL BORROW AREAS
- DITCH PLUG
- DIKE REMOVAL
- 5' 0+00 — PROPOSED BERM
- EXISTING TIDAL CHANNEL
- EXCAVATED TIDAL CHANNEL
- EXCAVATED TIDAL HEADWATERS

Unauthorized Changes & Uses
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SNOHOMISH COUNTY PLANNING DEPT. SERVICES
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BY: **RANDOLPH P. BLIGHT, P.E., P.L.S.**

PERMIT NO: _____



WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE

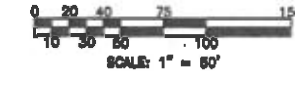


SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER: <i>[Signature]</i>		DATE: 2/14/19	
PROGRAM: _____		DATE: 4/2019	

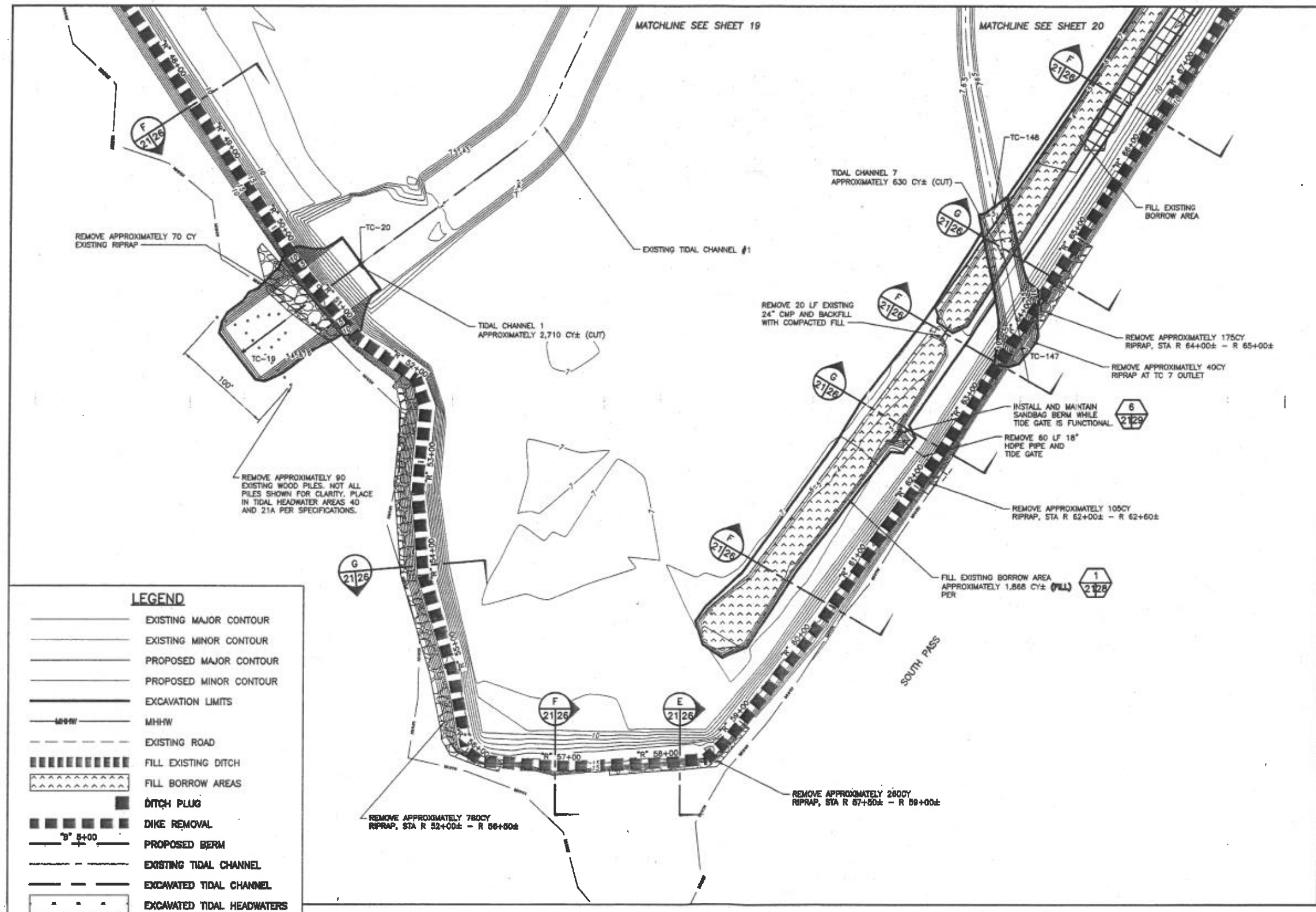
0" = 1"
 BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS.

SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
GRADING PLAN 12

PROJECT NO. ST:R127:18-1	
SHEET 20	OF 29



- NOTES:**
1. RIPRAP REMOVAL QUANTITIES SHOWN ON ALL SHEETS ARE NEAT-LINE ESTIMATES ONLY. THE ACTUAL VOLUME OF REUSABLE RIPRAP WILL VARY.
 2. RIPRAP SMALLER THAN 12" NEED NOT BE REMOVED, AND MAY BE MIXED WITH SOIL THAT IS TO BE SPREAD AND/OR USED AS FILL MATERIAL IN DITCHES AND BORROW AREAS.



LEGEND

	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXCAVATION LIMITS
	MHW
	EXISTING ROAD
	FILL EXISTING DITCH
	FILL BORROW AREAS
	DITCH PLUG
	DIKE REMOVAL
	PROPOSED BERM
	EXISTING TIDAL CHANNEL
	EXCAVATED TIDAL CHANNEL
	EXCAVATED TIDAL HEADWATERS

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SNOHOMISH COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION

BY:
 RANDOLPH P. BLIGHT, P.E., P.L.B.

PERMIT NO: _____



WASHINGTON STATE
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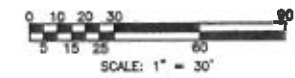
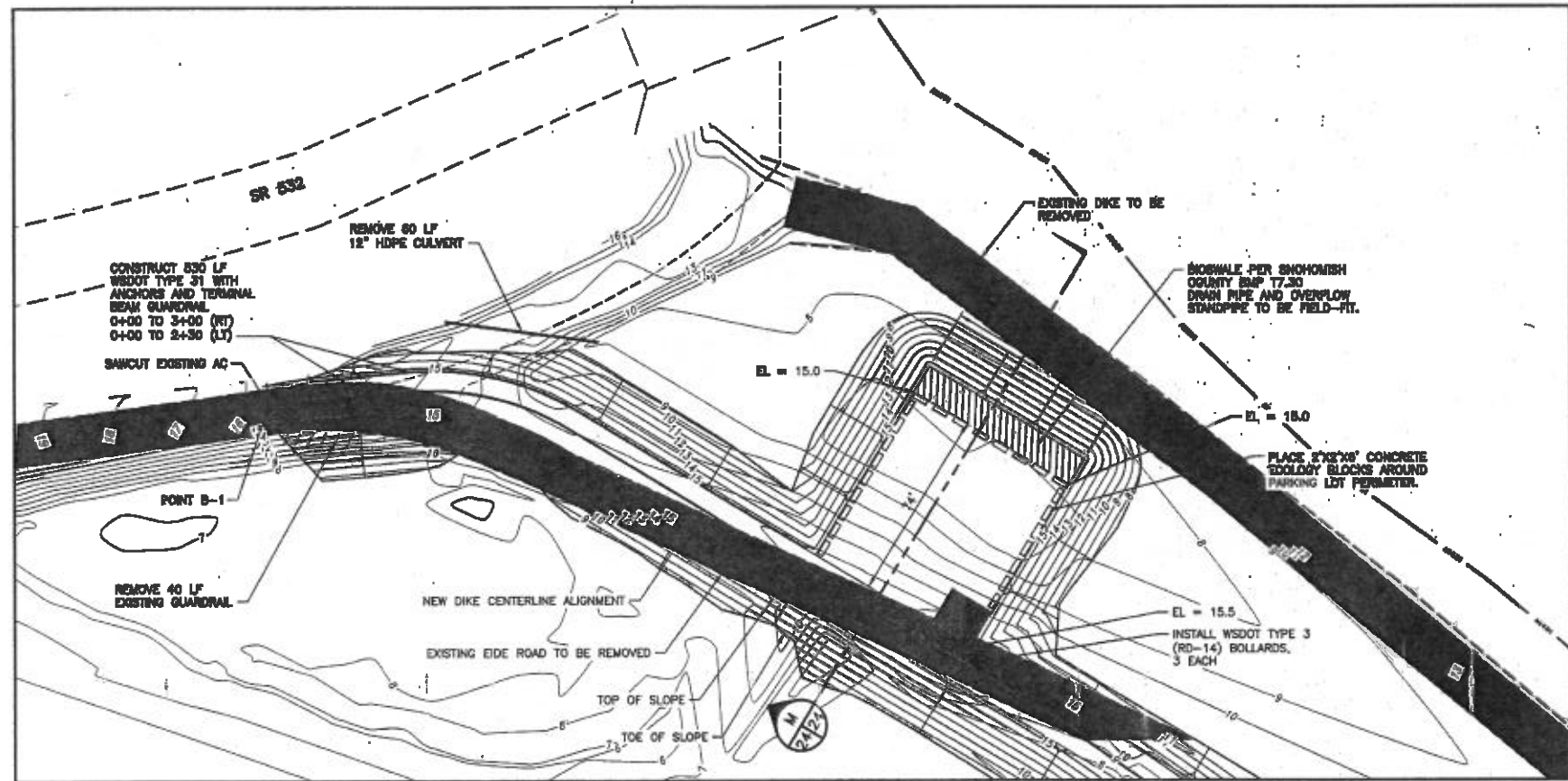


SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	<i>[Signature]</i>	DATE: <i>[Date]</i>	
DESIGNED BY	SL	CHECKED BY	SL
DRAWN BY	SAR	DATE	4/2018

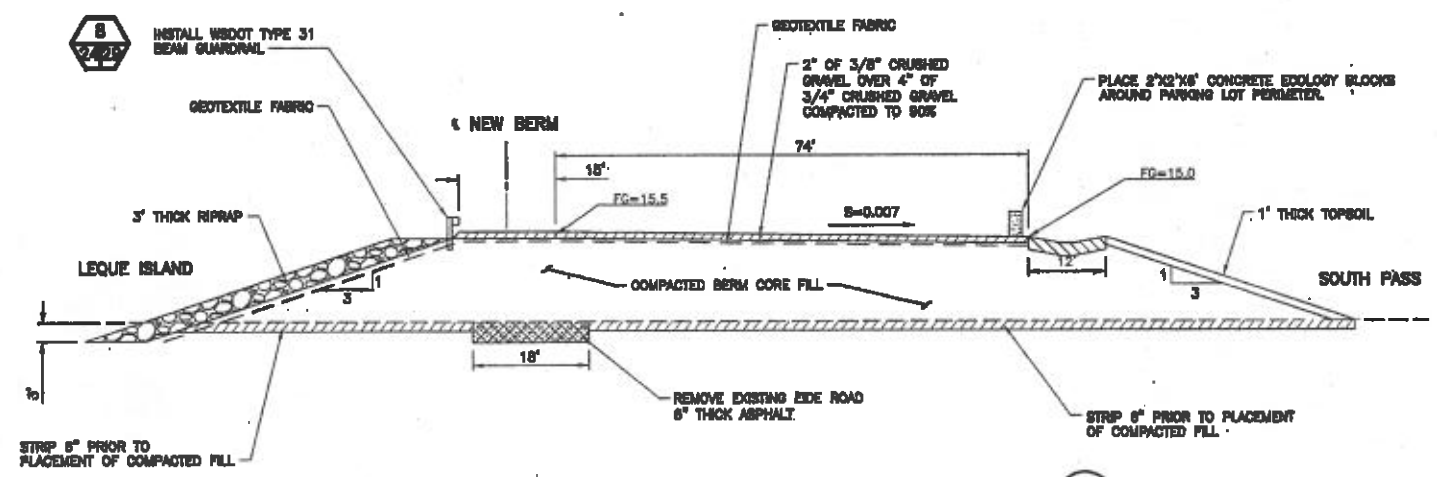
0 = 1"
 BAR MEASURES
 ONE INCH ON
 ORIGINAL DRAWINGS

SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
GRADING PLAN 13

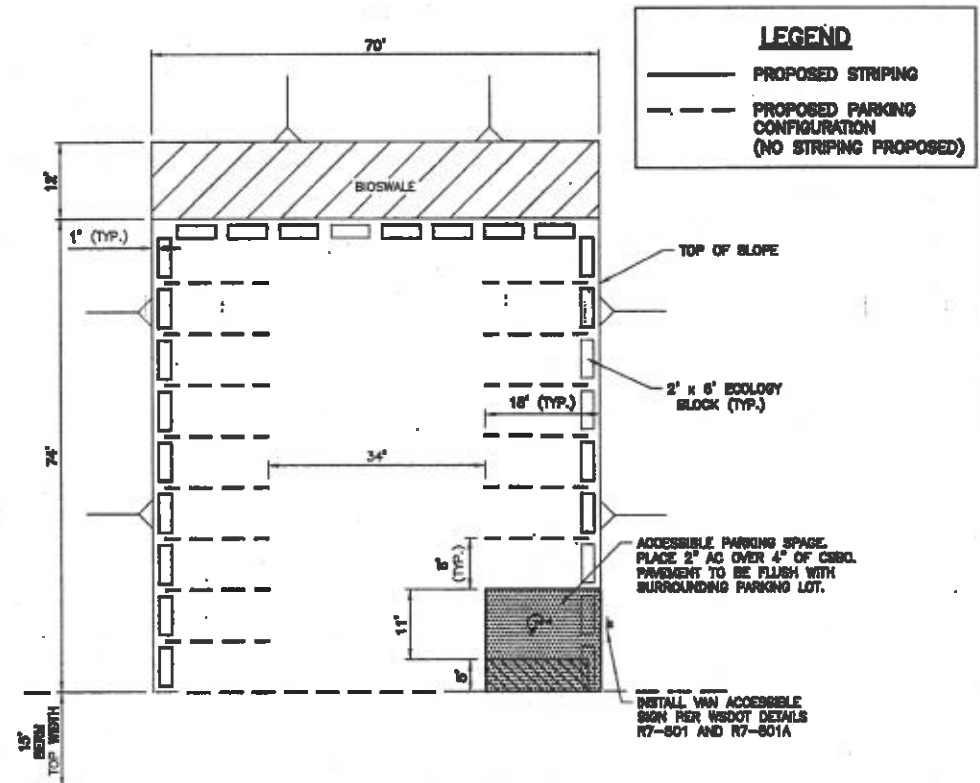
PROJECT NO. ST:R127:18-1	
SHEET 21	OF 29



PARKING LOT



PARKING LOT SECTION
NOT TO SCALE



LEGEND

- PROPOSED STRIPING
- PROPOSED PARKING CONFIGURATION (NO STRIPING PROPOSED)

NOTES:
1. STRIPING ONLY PROPOSED FOR VAN ACCESSIBLE PARKING SPACE. ALL OTHER STRIPING TO DEMONSTRATE PROPOSED PARKING CONFIGURATION.

PARKING LOT LAYOUT
NOT TO SCALE



SNOHOMISH COUNTY PLANNING DEPT. SERVICES
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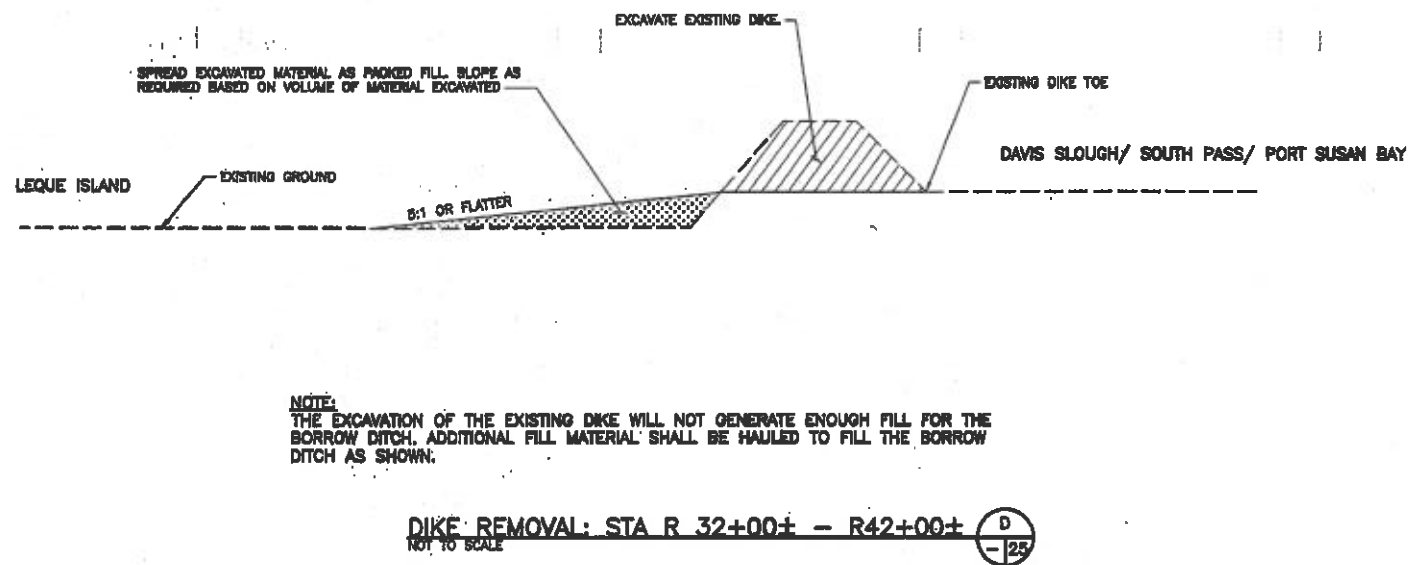
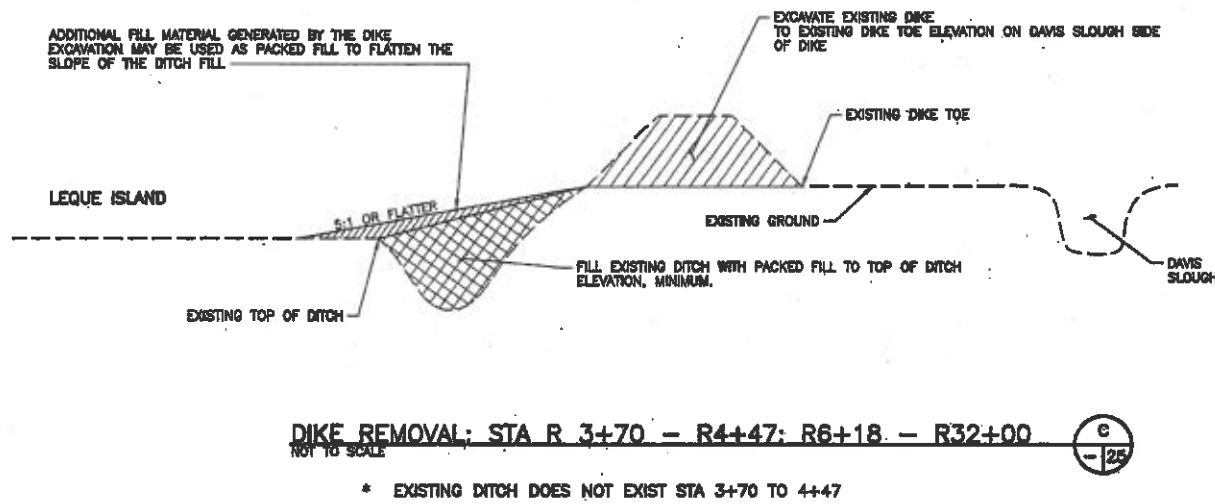
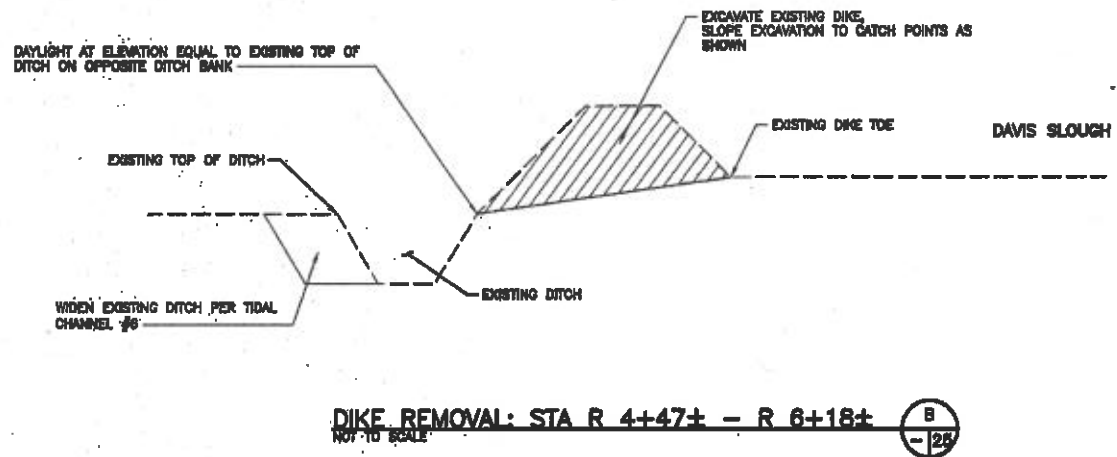
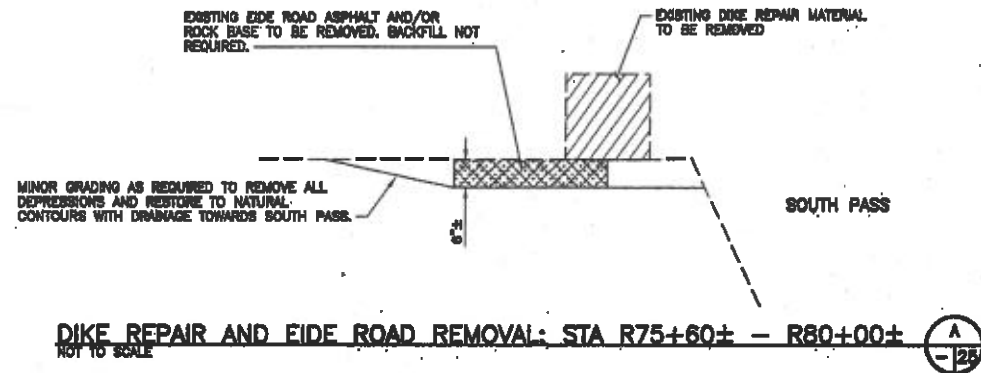



SYM	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	
		DATE: 2/24/19	
		DATE: 4/2019	

0 = 1" BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS

SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
PARKING LOT PLAN

PROJECT NO. ST:R127:18-1	
SHEET	OF
24	29



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SNOHOMISH COUNTY PLANNING DEPT. SERVICES
APPROVED FOR CONSTRUCTION
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PERMIT NO: _____



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DEPARTMENT OF FISH AND WILDLIFE



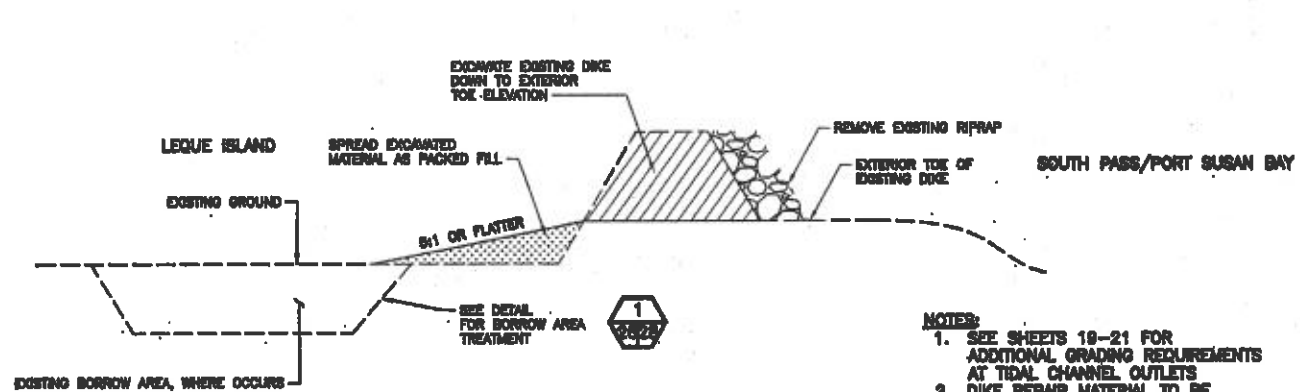
SYN	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	
CHIEF ENGINEER			
PROGRAM			

DESIGNED BY: SL
CHECKED BY: SL
DRAWN BY: SJR
DATE: OCT 4, 2019

0 = 1"
BAR MEASURES
ONE INCH ON
ORIGINAL DRAWINGS

SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
DETAILS

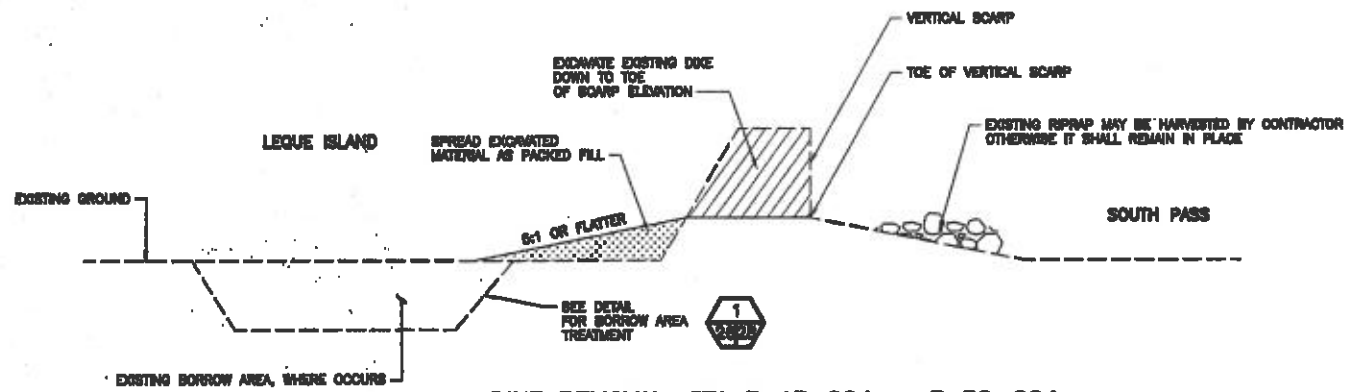
PROJECT NO.
ST:R127:18-1
SHEET OF
25 29



NOTES:
 1. SEE SHEETS 18-21 FOR ADDITIONAL GRADING REQUIREMENTS AT TIDAL CHANNEL OUTLETS
 2. DIKE REPAIR MATERIAL TO BE REMOVED, PER SHEET 6, NOT SHOWN FOR CLARITY

DIKE REMOVAL: STA R 42+00± - R 43+00±
 STA R 57+50± - R 59+00±
 STA R 69+00± - R 74+50±

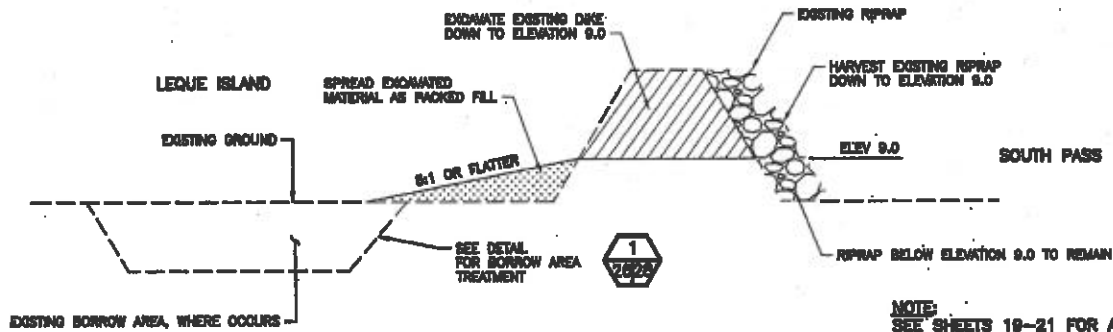
NOT TO SCALE E
18/26



NOTE:
 SEE SHEETS 18-21 FOR ADDITIONAL GRADING REQUIREMENTS AT TIDAL CHANNEL OUTLETS

DIKE REMOVAL: STA R 43+00± - R 52+00±
 STA R 56+50± - R 57+50±
 STA R 59+00± - R 62+00±
 STA R 62+80± - R 64+00±
 STA R 65+00± - R 69+00±

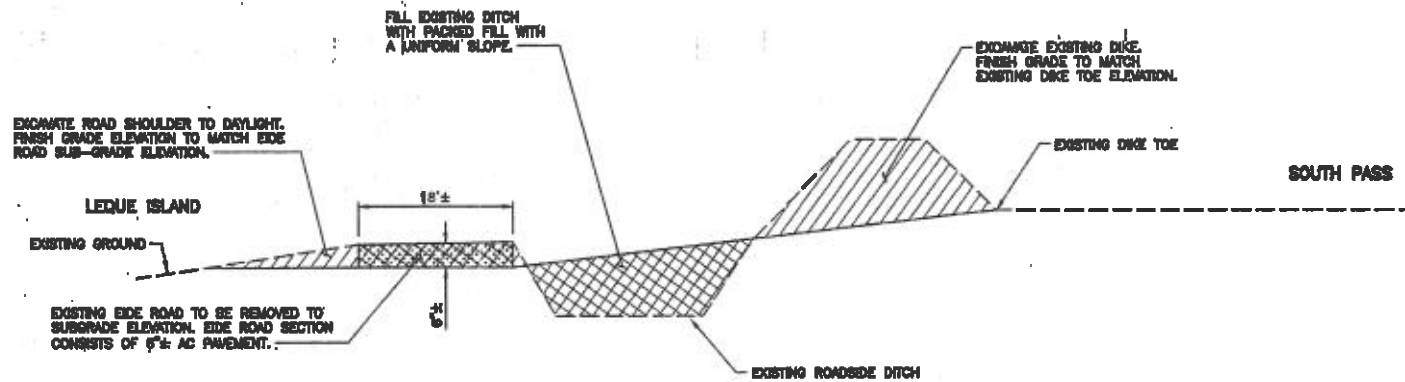
NOT TO SCALE F
-26



NOTE:
 SEE SHEETS 18-21 FOR ADDITIONAL GRADING REQUIREMENTS AT TIDAL CHANNEL OUTLETS

DIKE REMOVAL: STA R 52+00± - R 56+50±
 STA R 62+00± - R 62+60±
 STA R 64+00± - R 65+00±

NOT TO SCALE G
21/26



NOTE:
 EXCAVATED MATERIAL, INCLUDING TOPSOIL SHALL BE USED TO FILL THE ROADSIDE DITCH TO THE LINES AND GRADES SHOWN. ANY EXCESS MATERIAL SHALL BE SPREAD LOOSELY WITHIN THE DISTURBED FOOTPRINT.

DIKE REMOVAL: STA R 80+00± - R 99+40±

NOT TO SCALE H
-26



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SKAGIT W.A. COUNTY PLANNING DEPT. SERVICES
 APPROVED FOR CONSTRUCTION
 BY: RANDOLPH D. SLIGHT, P.E., P.L.S.
 PERMIT NO: _____



WASHINGTON STATE
 DEPARTMENT OF FISH AND WILDLIFE

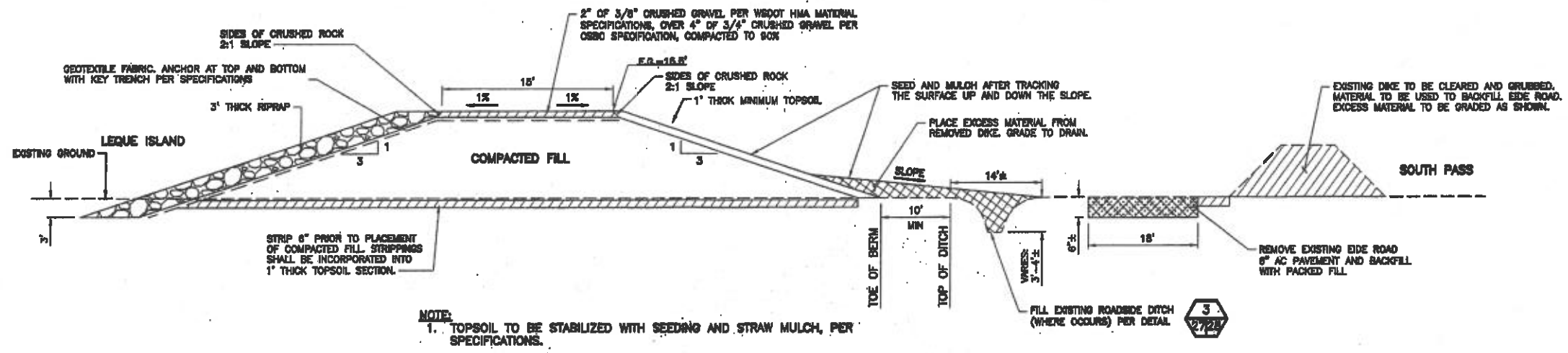


SYM	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	
CHIEF ENGINEER			
PROJECT			

DESIGNED BY: SL
 CHECKED BY: SL
 DRAWN BY: SJR
 DATE: 4/2018

SKAGIT W.A. - LEQUE ISLAND UNIT
 ESTUARY RESTORATION PROJECT - PHASE II
 DETAILS

PROJECT NO. ST:R127:18-1	
SHEET	OF
26	29



NOTE:
1. TOPSOIL TO BE STABILIZED WITH SEEDING AND STRAW MULCH, PER SPECIFICATIONS.

BERM CONSTRUCTION: STA B 0+00 -- B 26+90
NOT TO SCALE



TIDAL CHANNEL EXCAVATION TABLE

CHANNEL #	THALWEG ELEV. AT OUTLET (FT. NAVD88)	THALWEG ELEV. AT 1/4 POINT (FT. NAVD88)	Predicted Thalweg Elev. at 1/2 point (ft. NAVD88)	THALWEG ELEV. AT 3/4 POINT (FT. NAVD88)	THALWEG ELEV. AT END (FT. NAVD88)	THALWEG WIDTH AT OUTLET (FT)	THALWEG WIDTH AT 1/4 (FT)	THALWEG WIDTH AT 1/2 (FT)	THALWEG WIDTH AT 3/4 (FT)	THALWEG WIDTH AT END (FT)	TOTAL CHANNEL LENGTH (FT)
1	2.20	2.25	2.30	2.35	MATCH EXISTING	60	60	60	60	60	170
1A	4.00	4.25	4.50	4.75	5.00	25	21.3	17.5	13.8	10	1010
1B	4.30	4.60	4.90	5.20	5.50	10	9	8	7	6	770
10	4.30	4.60	4.90	5.20	5.50	10	9	8	7	6	1170
2	2.60	2.65	2.70	2.75	MATCH EXISTING	50	50	50	50	50	160
4	2.90	2.95	3.00	3.05	MATCH EXISTING	30	30	30	30	30	150
4A	4.20	4.38	4.75	5.13	5.50	17	14.3	11.5	8.8	6	930
4B	5.00	5.25	5.50	5.75	6.00	10	9	8	7	6	2760
4C	5.50	5.50	5.50	5.50	5.50	6	6	6	6	6	300
4D	5.50	5.55	5.60	5.65	5.70	6	6	6	6	6	470
6	3.08	3.86	4.27	4.68	5.48	24.1	13.9	12.0	8.6	6.2	1281
7	3.70	3.75	3.80	3.85	MATCH EXISTING	20.0	20.0	20.0	20.0	20.0	170
21	4.20	4.75	5.30	5.85	6.40	9.0	7.6	6.2	4.7	3.3	2540
21A	5.50	5.63	5.75	5.88	6.00	6	5.5	5	4.5	4	1030
21B	6.00	6.13	6.25	6.38	6.50	4	4	4	4	4	1540
25	5.50	5.75	6.00	6.25	6.50	8.0	7.5	7.0	6.5	6.0	1850
25A	6.25	6.28	6.30	6.33	6.35	6	6	6	6	6	220
26	4.70	4.70	4.70	4.70	MATCH EXISTING	10.0	10.0	10.0	10.0	10.0	60



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SKAGIT COUNTY PLANNING DEPT. SERVICES
APPROVED FOR CONSTRUCTION

BY:
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PERMIT NO: _____



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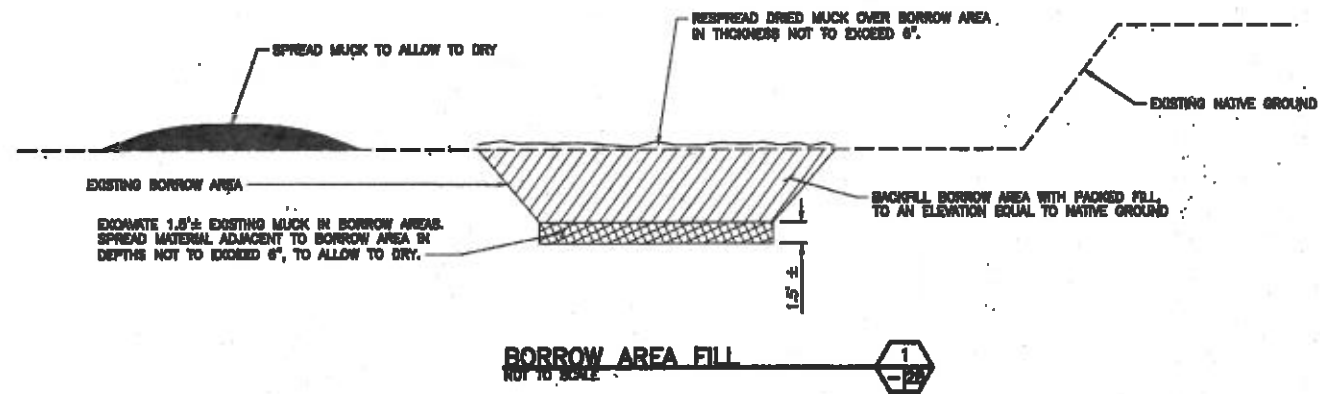
SYM	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	

DESIGNED BY: SL
CHECKED BY: SL
DRAWN BY: SLR
DATE: 4/2018

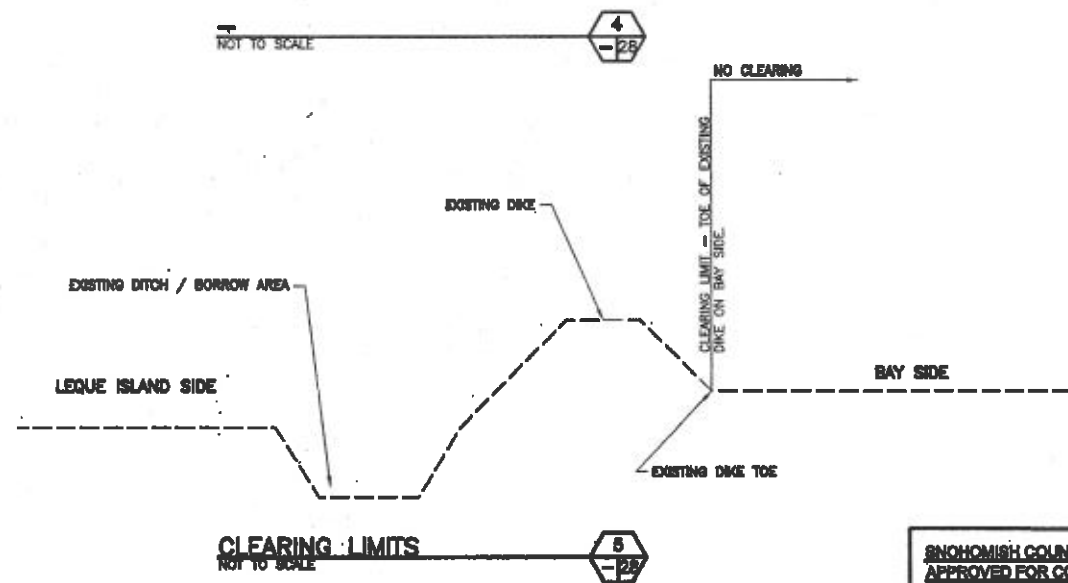
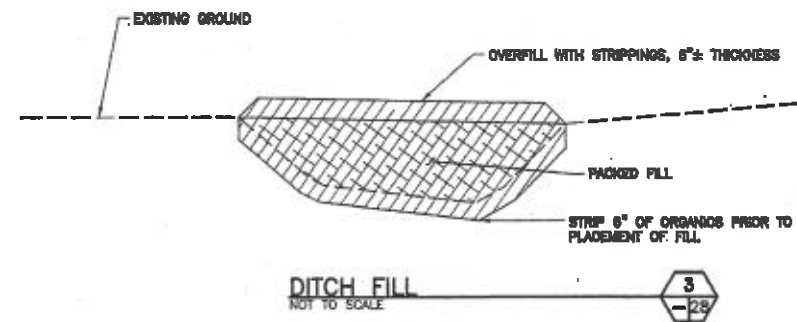
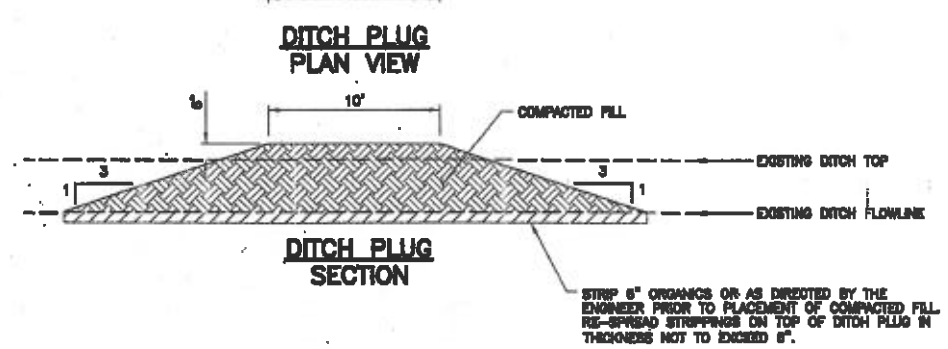
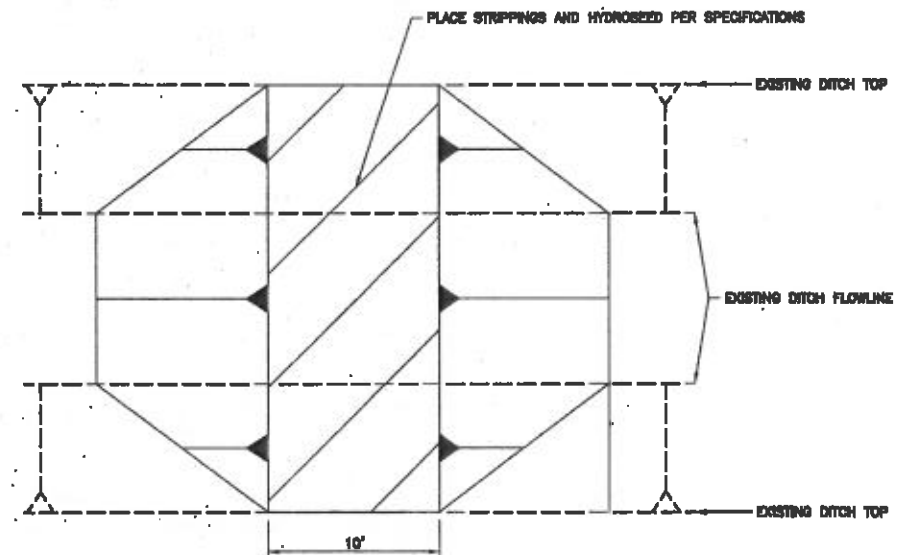
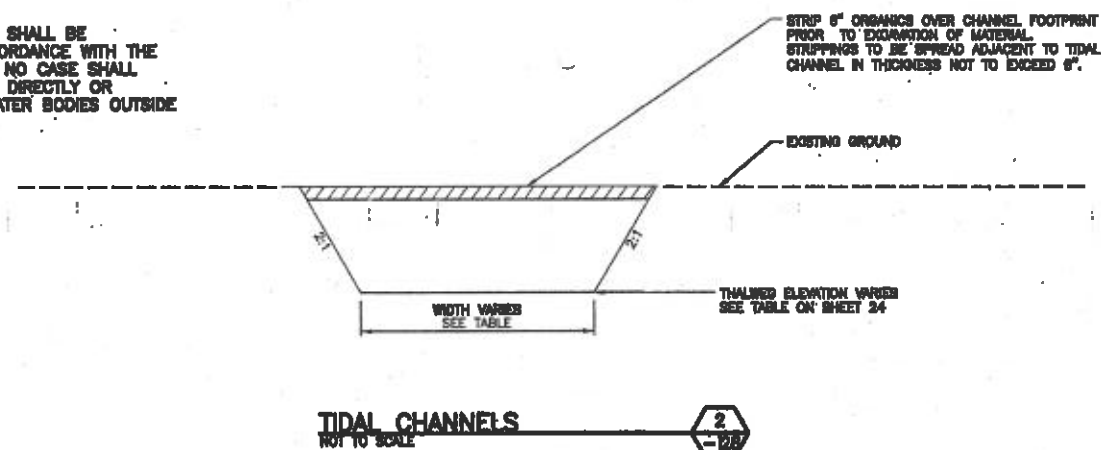
SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
DETAILS

PROJECT NO.
ST:R127:18-1

SHEET OF
27 29



NOTE:
THE BORROW AREA SHALL BE DEWATERED IN ACCORDANCE WITH THE SPECIFICATIONS. IN NO CASE SHALL WATER BE PUMPED DIRECTLY OR INDIRECTLY INTO WATER BODIES OUTSIDE THE EXISTING DIKE.



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SKAGIT COUNTY PLANNING DEPT. SERVICES
APPROVED FOR CONSTRUCTION
BY:
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PERMIT NO:



WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE

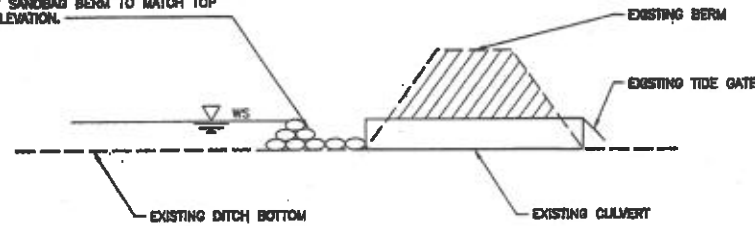


SYM	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	
CHIEF ENGINEER			
DESIGNED BY			
CHECKED BY			
DRAWN BY			
DATE			

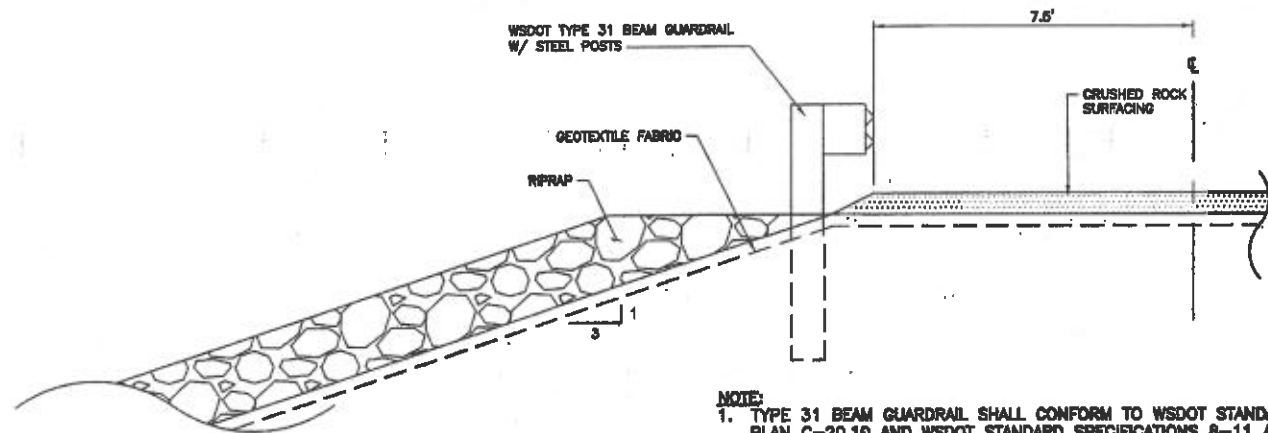
SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
DETAILS

PROJECT NO.	ST:R127:18-1
SHEET	OF
28	29

CONSTRUCT SANDBAG BERM TO CREATE DETENTION IN EXISTING DITCH. TOP OF SANDBAG BERM TO MATCH TOP OF EXISTING CULVERT ELEVATION.

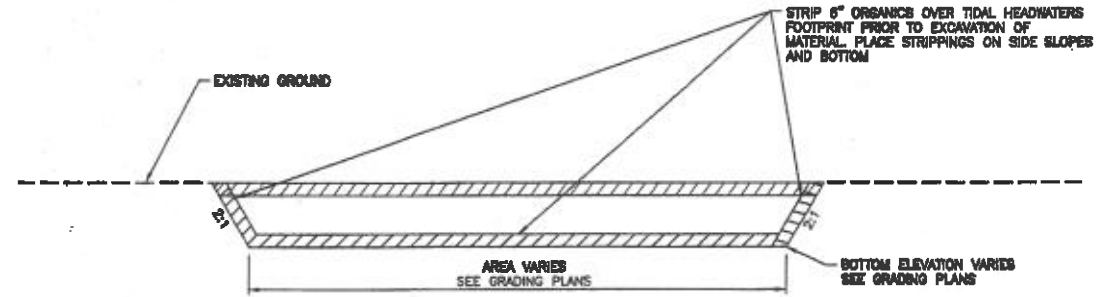


SANDBAG BERM
NOT TO SCALE



- NOTE:**
1. TYPE 31 BEAM GUARDRAIL SHALL CONFORM TO WSDOT STANDARD PLAN C-20.10 AND WSDOT STANDARD SPECIFICATIONS 8-11 AND 9-18.3. PROVIDE SUBMITTALS FOR MATERIALS AS REQUIRED IN THE SPECIFICATIONS. EASTBOUND AND WESTBOUND ENDS NEAR PARKING LOT SHALL BE BEAM GUARDRAIL ANCHOR TYPE 10 CONFORMING TO WSDOT STANDARD PLAN C-23.60. WESTBOUND TERMINAL AT CURVE SHALL CONFORM TO WSDOT STANDARD PLAN C-22.45.
 2. CONNECT EASTBOUND GUARDRAIL TO EXISTING GUARDRAIL IN A MANNER CONFORMING TO WSDOT STANDARD PLANS.
 3. POSTS SHALL BE STEEL, 8 FT LONG, EXCEPT BREAKAWAY POST SHALL BE WOOD.

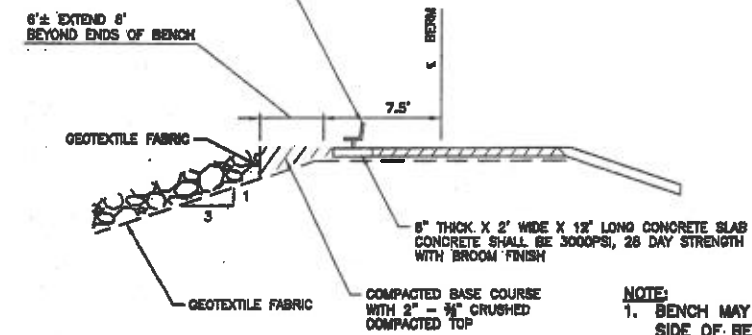
WSDOT TYPE 31 BEAM GUARDRAIL
NOT TO SCALE



TIDAL HEADWATERS
NOT TO SCALE



2 EACH PAIR WEATHER SITE FURNISHINGS, MODEL CA-2P 6' LONG PLASTIC BENCHES WITH SURFACE MOUNT, OR APPROVED EQUIVALENT



- NOTE:**
1. BENCH MAY BE LOCATED ON RIGHT OR LEFT SIDE OF BERM (LOOKING TOWARDS INCREASING STATIONING)

PEDESTRIAN BENCH
NOT TO SCALE



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SNOHOMISH COUNTY PLANNING DEPT. SERVICES
APPROVED FOR CONSTRUCTION

BY:
RANDOLPH P. BLEIGHT, P.E., P.L.B.

PERMIT NO:



WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE



SYN	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	SL
			SL
			SJR

DATE: 2/14/22

DATE: 4/2019

0 1"
BAR MEASURES
ONE INCH ON
ORIGINAL DRAWINGS

SKAGIT W.A. - LEQUE ISLAND UNIT
ESTUARY RESTORATION PROJECT - PHASE II
DETAILS

PROJECT NO.
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SHEET OF
29 29

