



Contract Plans

For Construction of:

009321

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION

SNOHOMISH COUNTY

VOLUME 1 OF 8

F. A. NO. TIGER-WA-2017-007, CFDA 20933
F. A. NO. PSRC-WA-2017-023, CFDA 20507



**Washington State
Department of Transportation**

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ENTERED BY: R. JACKSON		9/21/18				10 WASH									
CHECKED BY: D. ALIRE		9/21/18				JOB NUMBER 18W121									
MAR PROJ ENGR: C. TORRES						CONTRACT NO. 00*****									
DIR TERM ENGR: N. MCINTOSH								REVISION		DATE		BY			
ASST SECRETARY: A. SCARTON															


VOLUME 1 SHEET INDEX - CONT

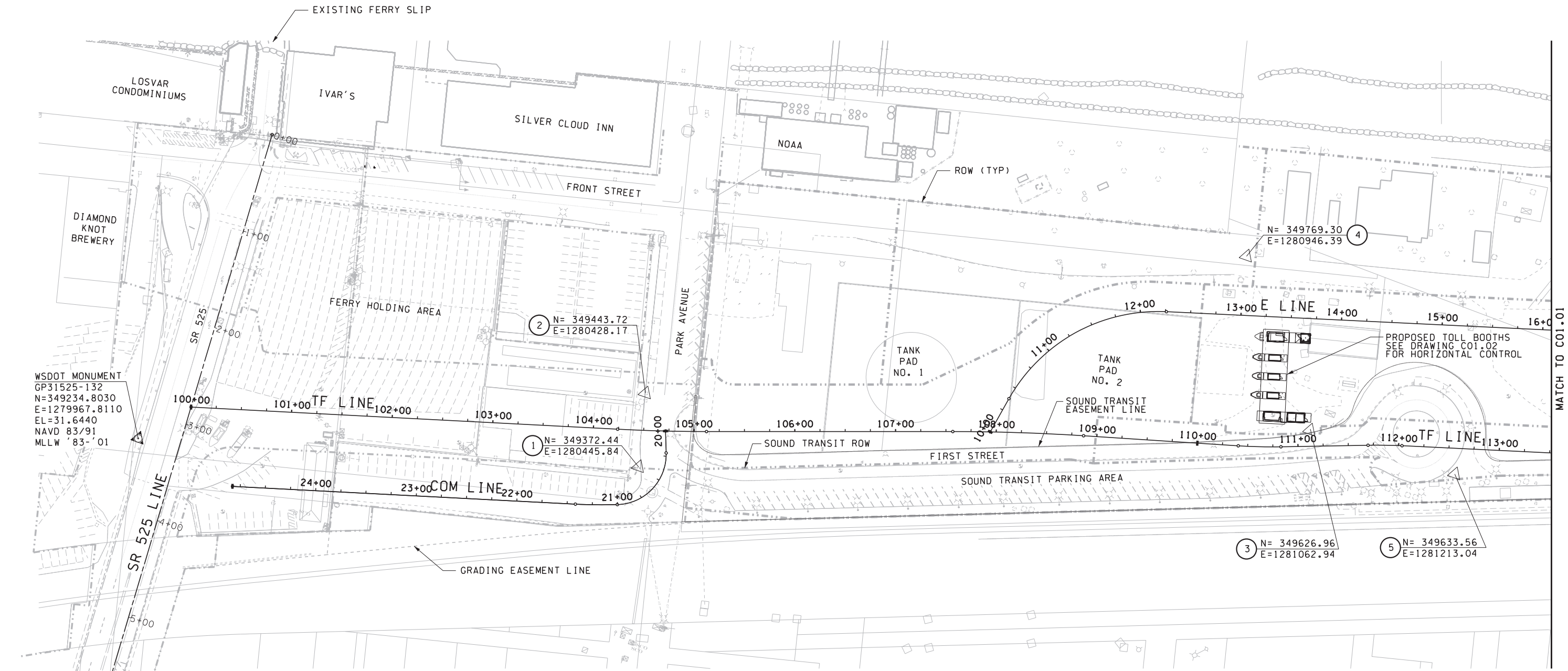
SHT NO. PLAN NO. DESCRIPTION

SITE WORK - CONT

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220	C08.42	MWWD SANITARY SEWER STANDARD DETAILS
221	C08.43	MWWD SANITARY SEWER STANDARD DETAILS
222	C08.50	WATER & SANITARY SEWER DETAILS
223	C08.51	WATER & SANITARY SEWER DETAILS
224	C08.52	WATER & SANITARY SEWER DETAILS
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MAR PROJ ENGR: C. TORRES										
DIR TERM ENGR: N. MCINTOSH										
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY						



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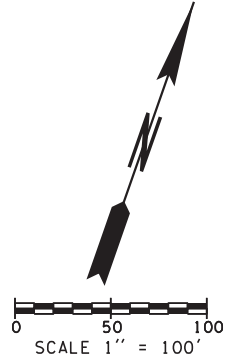
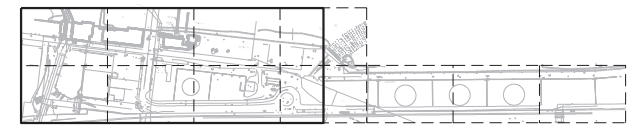
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- 1. PROJECT MONUMENT IS WSDOT GP 31525-132.
WWW.WSDOT.WA.GOV/MON.
 - 2. EXISTING TEMPORARY HORIZONTAL CONTROL IS FROM THE PROJECT BASEMAP AND IDENTIFIED FOR CONTRACTOR CONVENIENCE.
 - 3. THIS SHEET IS FOR INFORMATION ONLY.

HORIZONTAL CONTROL


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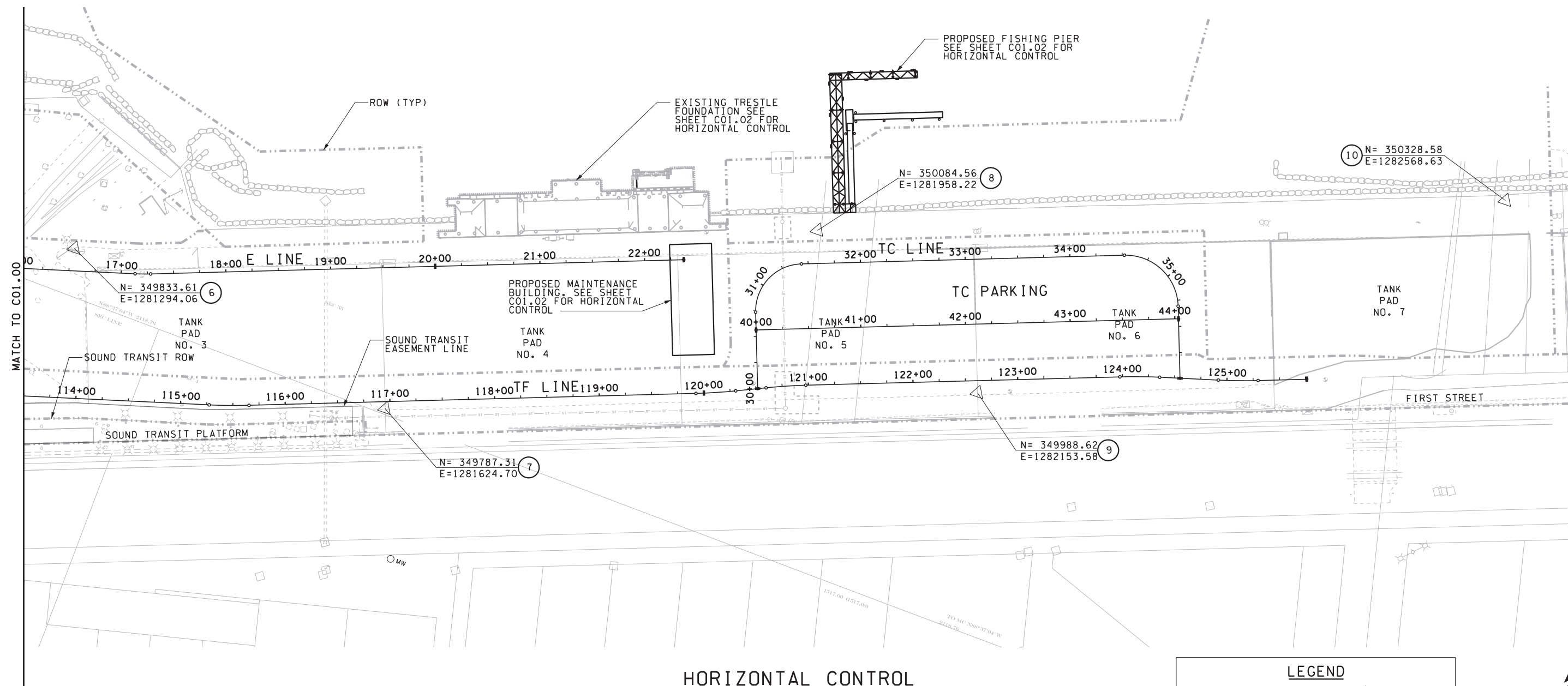
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EXISTING TEMPORARY HORIZONTAL CONTROL LOCATION



FOR REFERENCE ONLY

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MAR PROJ ENGR: C. TORRES				CONTRACT NO. 00****		1521								
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ASST SECRETARY: A. SCARTON		REVISION		DATE BY										



HORIZONTAL CONTROL

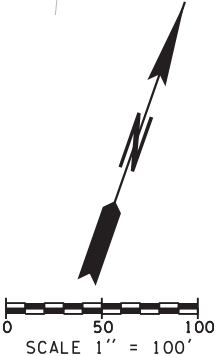
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- 1. PROJECT MONUMENT IS WSDOT GP 31525-132. WWW.WSDOT.WA.GOV/MON.
- 2. EXISTING TEMPORARY HORIZONTAL CONTROL IS FROM THE PROJECT BASEMAP AND IDENTIFIED FOR CONTRACTOR CONVENIENCE.
- 3. THIS SHEET IS FOR INFORMATION ONLY.

LEGEND

NUMBER 5 N= 349633.56 E=1281213.04

EXISTING TEMPORARY HORIZONTAL CONTROL LOCATION



FOR REFERENCE ONLY

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ASST SECRETARY: A. SCARTON				00****
	REVISION	DATE	BY	

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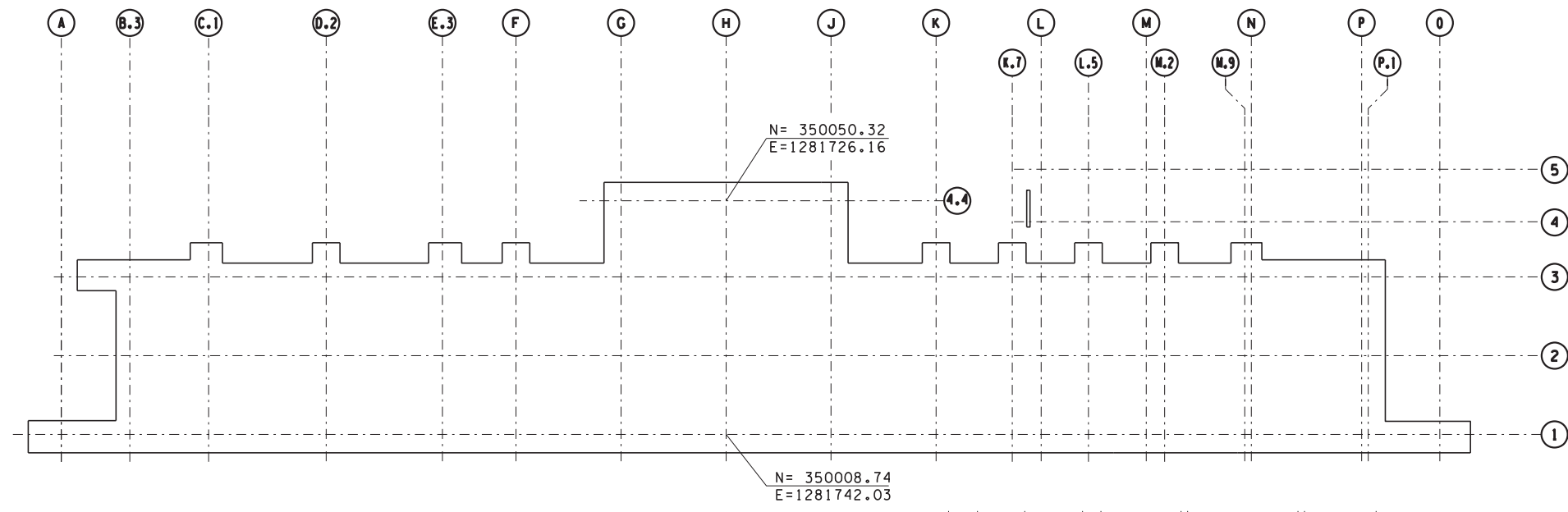
Washington State
Department of Transportation
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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

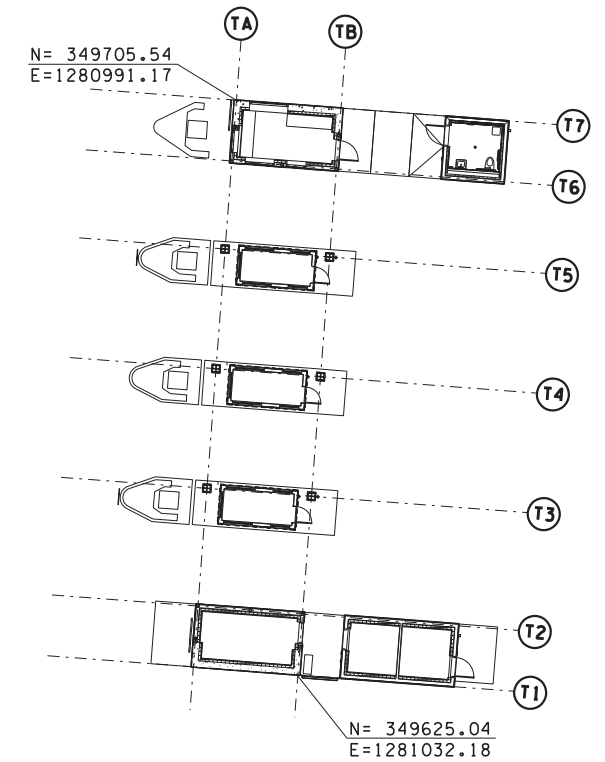
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C01.01

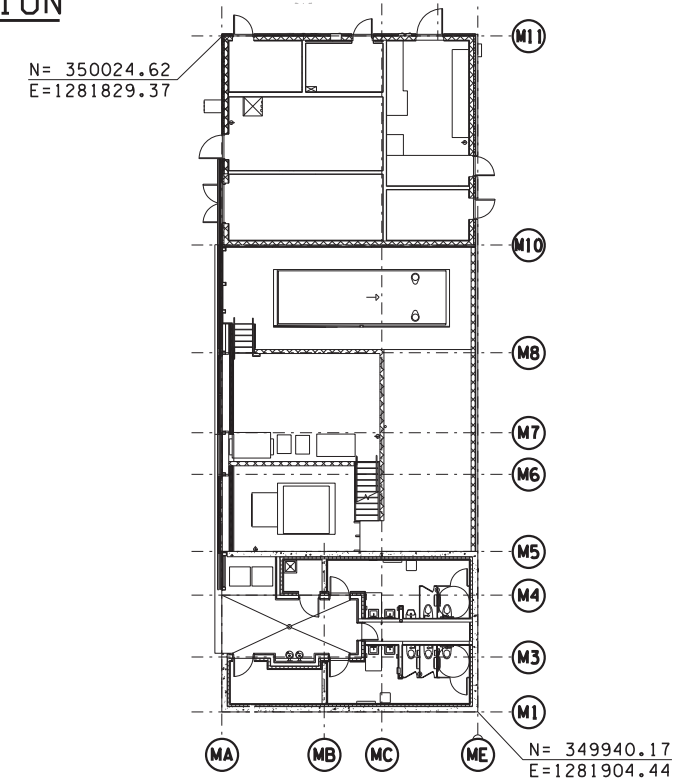
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OF
1521
SHEETS



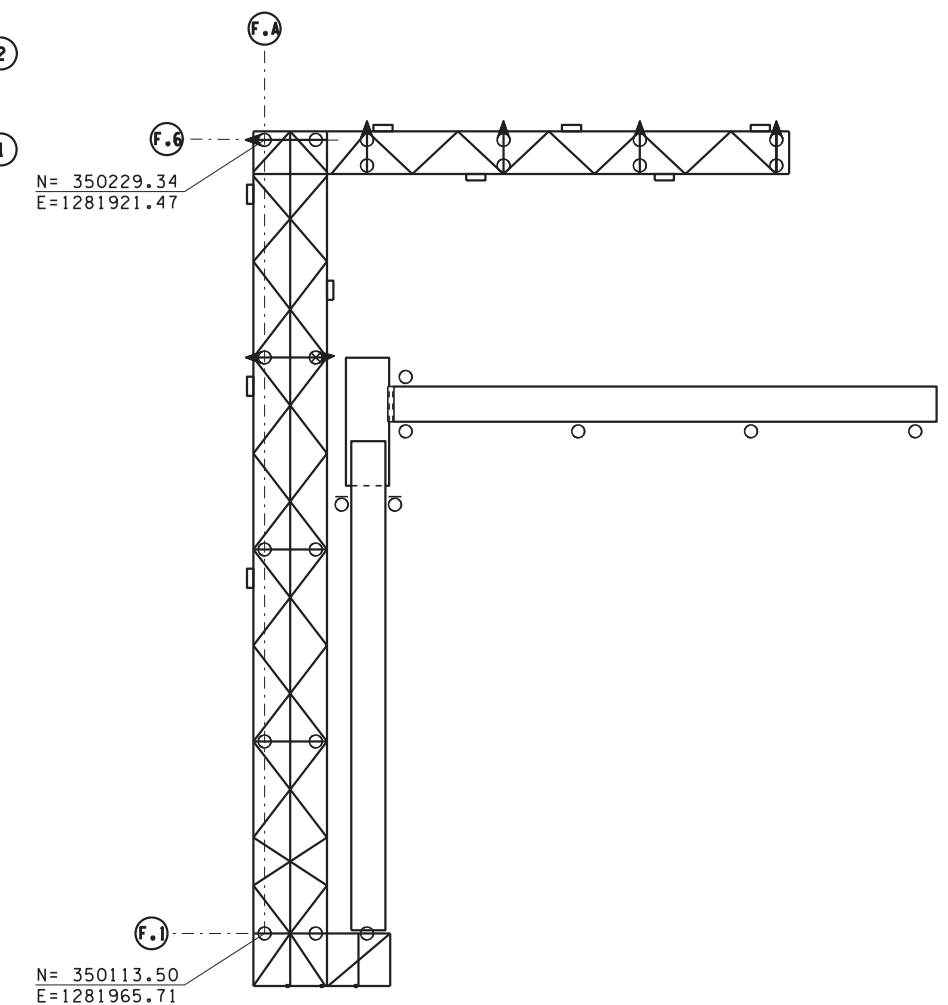
TRESTLE FOUNDATION



TOLL BOOTHS



MAINTENANCE BUILDING



FISHING PIER

NOTES:

1. TRESTLE WAS CONSTRUCTED BY OTHERS USING SAME COORDINATES.
2. CONTRACTOR TO VERIFY MAINTENANCE BUILDING COORDINATES WITH THE "HORIZONTAL CONTROL, TERMINAL" PLAN, DRAWING A00.35, PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO VERIFY FISHING PIER COORDINATES WITH THE "WATER HORIZONTAL CONTROL" PLAN, DRAWING SG03.02, PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO VERIFY TOLL BOOTHS COORDINATES WITH THE "HORIZONTAL CONTROL, TOLL PLAZA" PLAN, DRAWING A00.36, PRIOR TO CONSTRUCTION.
5. THIS SHEET IS FOR INFORMATION ONLY.

FOR REFERENCE ONLY

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ENTERED BY: D. PERRY					3/5/2018					10 WASH																													
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MAR PROJ ENGR: C. TORRES										CONTRACT NO. 00****																													
DIR TERM ENGR: N. MCINTOSH																																							
ASST SECRETARY: A. SCARTON										REVISION					DATE					BY																			

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WASHINGTON STATE FERRIES**
























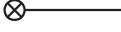








3/5/2018

EXISTING CIVIL BASEMAP LEGEND











SURVEY

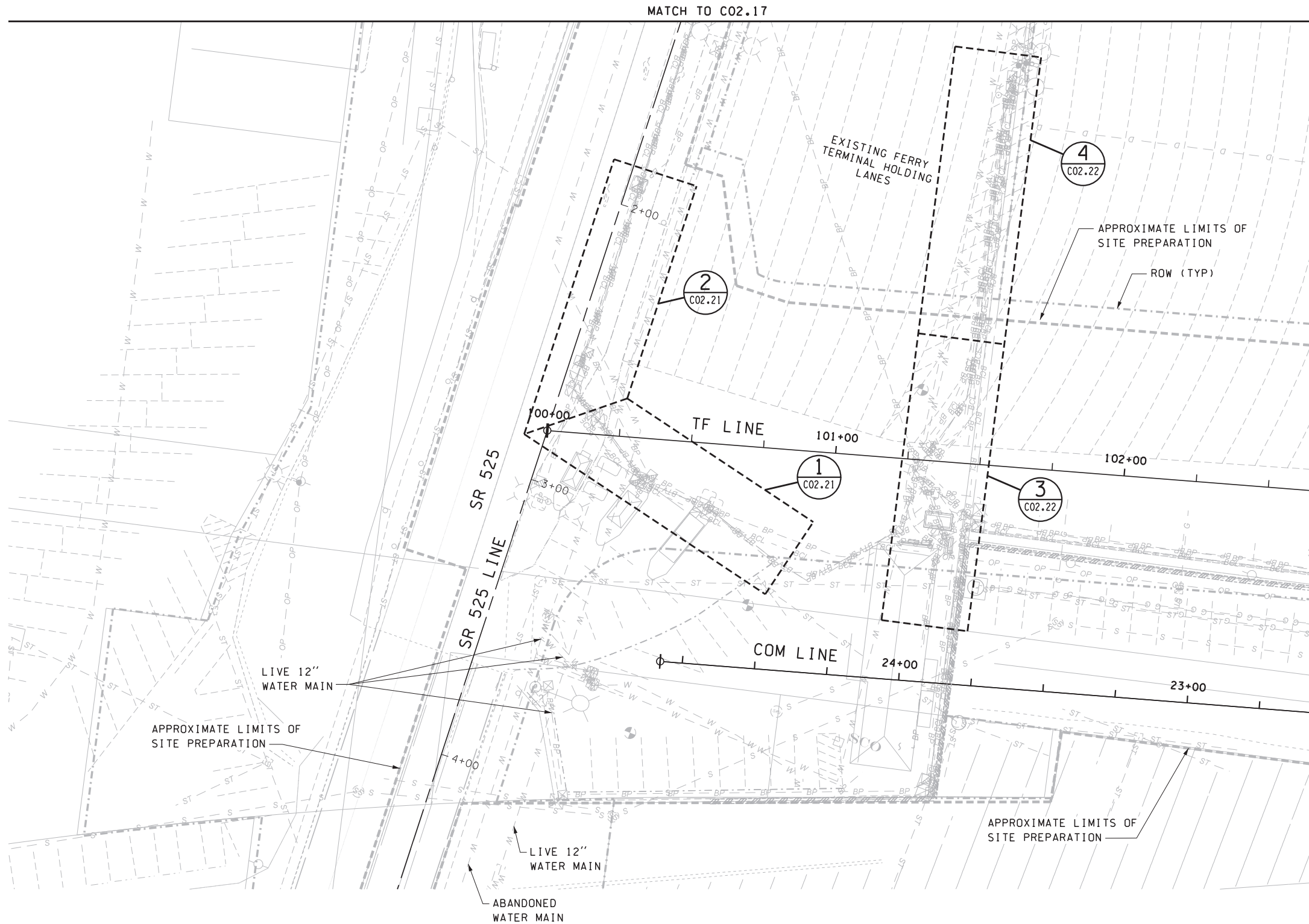
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	RIGHT-OF-WAY LINE
	SECTION LINE
	SEDIMENT SAMPLING LOCATION
	STATE BOUNDARY LINE
	TIDAL SHORE LINE

SYMBOLS

	BIOFILTRATION SWALE
	BOLLARD
	CATCH BASIN
	CROSSWALK
	ELECTRIC POLE
	ELECTRICAL PANEL
	FENCE
	FIRE HYDRANT
	GUY WIRE
	HANDICAP PARKING SYMBOL
	JUNCTION BOX TYPE 1
	JUNCTION BOX TYPE 2
	JUNCTION BOX NEW TYPE 2
	LUMINAIRE
	MANHOLE
	POWER CABINET
	POWER VAULT
	RAILROAD GATE
	RAILROAD SIGNAL LIGHTS
	RAILROAD TRACKS
	RETAINING WALL
	ROCKERY
	SIGN
	TRAFFIC SIGNAL POLE WITH MASTARM
	TRAFFIC CONTROLLER CABINET
	TRAFFIC SIGNAL HEAD
	TRAFFIC PEDESTRIAN POLE, SIGNAL HEAD AND PUSH BUTTON
	TELEPHONE MANHOLE
	TREE
	VALVE BOX
	WATER METER
	WATER VALVE

EXISTING UTILITIES

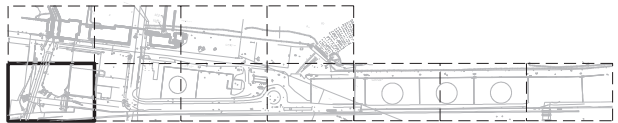
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	BURIED FIBER
	BURIED POWER
	GAS LINE
	OVERHEAD POWER
	SANITARY SEWER
	STORM SEWER LINE
	UTILITY LINE
	UNDER DRAIN
	WATER LINE



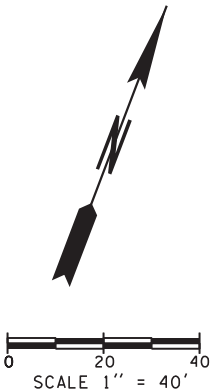
NOTES:

1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
2. SEE PLAN SHEETS C04.00 - C04.16 FOR APPROXIMATE LIMITS OF SITE PREPARATION.
3. SEE BINDING SITE PLANS FOR ROW INFORMATION ON THE TANK FARM, EAST OF PARK AVE. BINDING SITE PLANS ARE INCLUDED IN THE APPENDICES TO THE CONTRACT PROVISIONS.

MATCH TO C02.11



KEY PLAN



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/ /2017

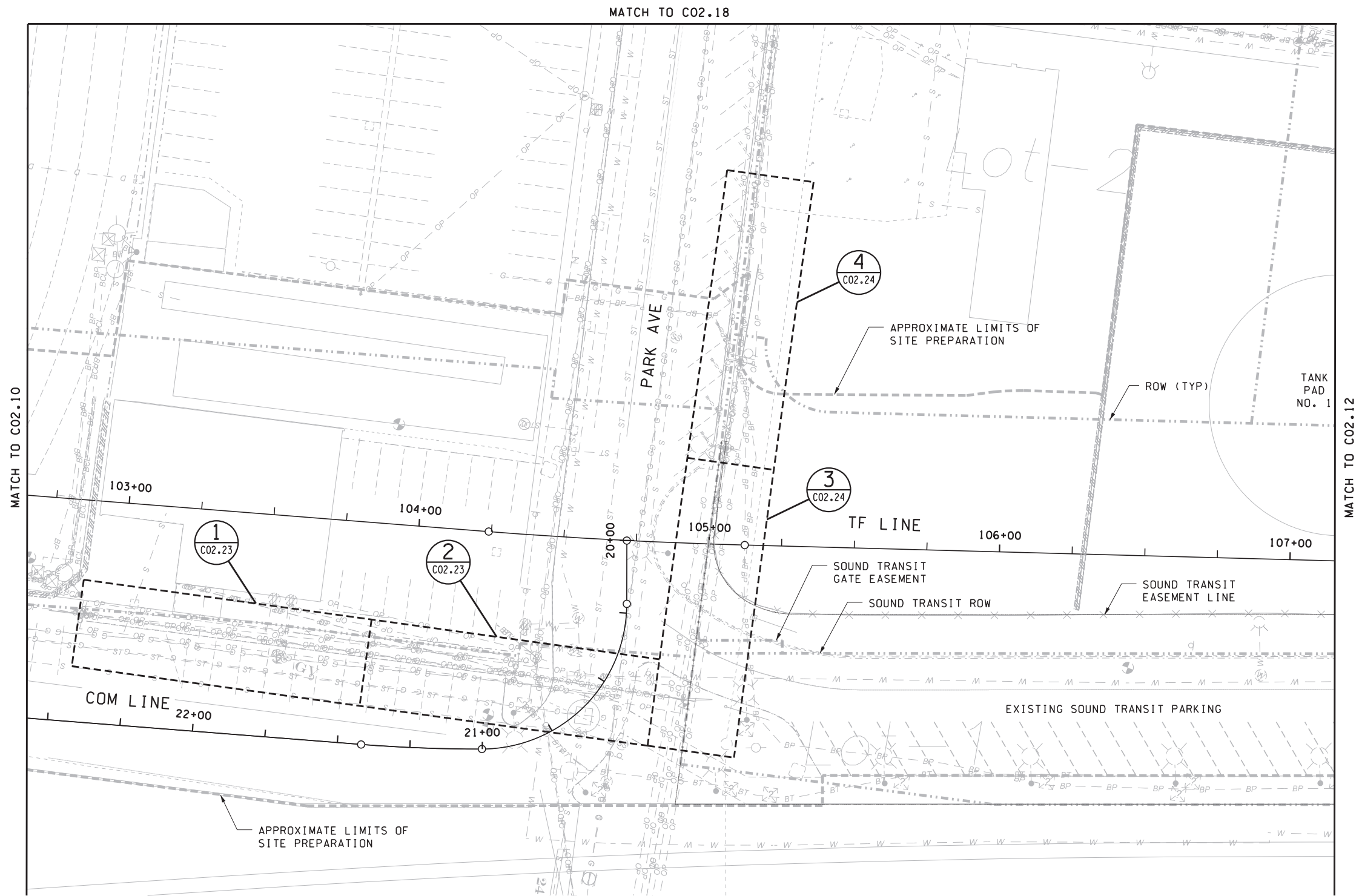
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

EXISTING UTILITIES

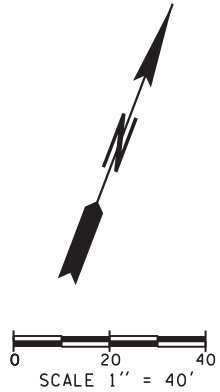
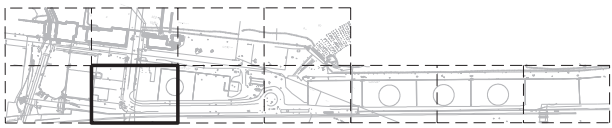
C02.10

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OF
1521
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CHECKED BY: R. LUDWIG	3/2/2018						JOB NUMBER
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DIR TERM ENGR: N. MCINTOSH							CONTRACT NO.
ASST SECRETARY: A. SCARTON							00****
	REVISION		DATE	BY			



- NOTES:
1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
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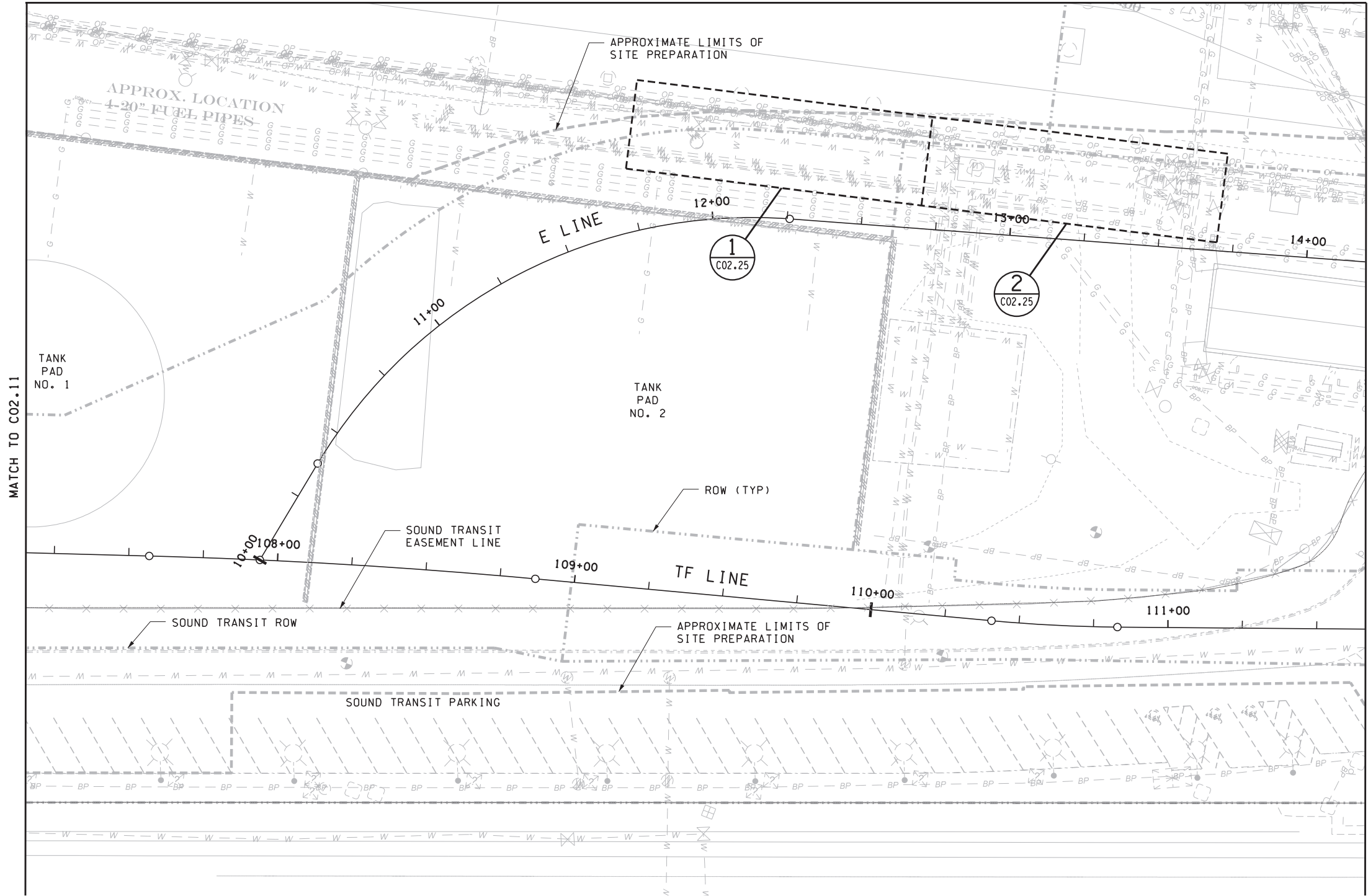


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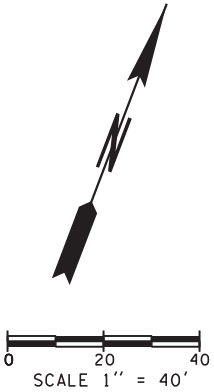
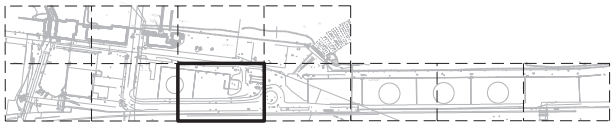
NOTES:

1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
2. SEE PLAN SHEETS C04.00 - C04.16 FOR APPROXIMATE LIMITS OF SITE PREPARATION.
3. SEE BINDING SITE PLANS FOR ROW INFORMATION ON THE TANK FARM, EAST OF PARK AVE. BINDING SITE PLANS ARE INCLUDED IN THE APPENDICES TO THE CONTRACT PROVISIONS.



MATCH TO C02.11

MATCH TO C02.13



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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

EXISTING UTILITIES

C02.12

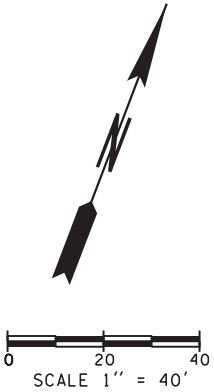
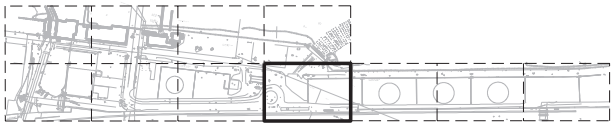
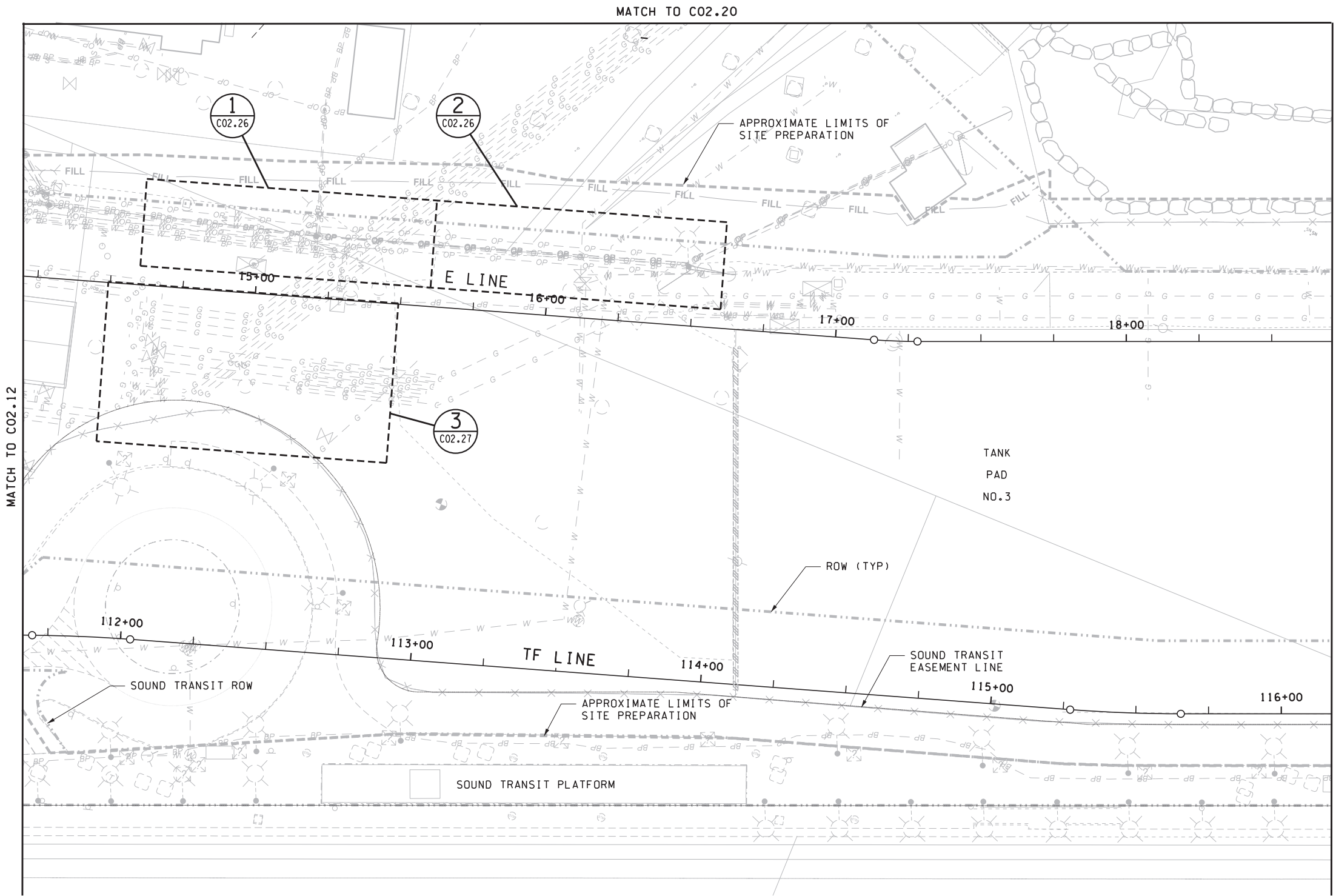
SHEET
49
OF
1521
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c02-12.dwg							
PRINTED: 12:43:11 PM 12/15/2017	LAST PRINTED BY:						FED.AID PROJ.NO.
SUBMITTAL DATE: 12/22/17	Contractor						WA-2017-007-00
DESIGNED BY: D. PERRY	12/15/2017						REGION NO. STATE
ENTERED BY: D. PERRY	12/15/2017						10 WASH
CHECKED BY: R. LUDWIG	12/15/2017						JOB NUMBER
MAR PROJ ENGR: C. TORRES							18W121
DIR TERM ENGR: N. MCINTOSH							CONTRACT NO.
ASST SECRETARY: A. SCARTON							00*****
REVISION		DATE	BY				

/ /2017

NOTES:

1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
2. SEE PLAN SHEETS C04.00 - C04.16 FOR APPROXIMATE LIMITS OF SITE PREPARATION.
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Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

EXISTING UTILITIES

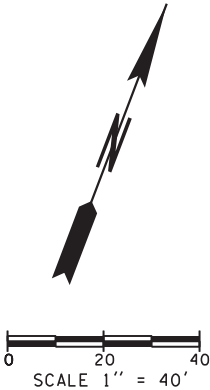
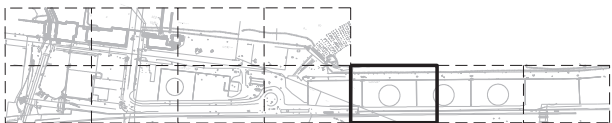
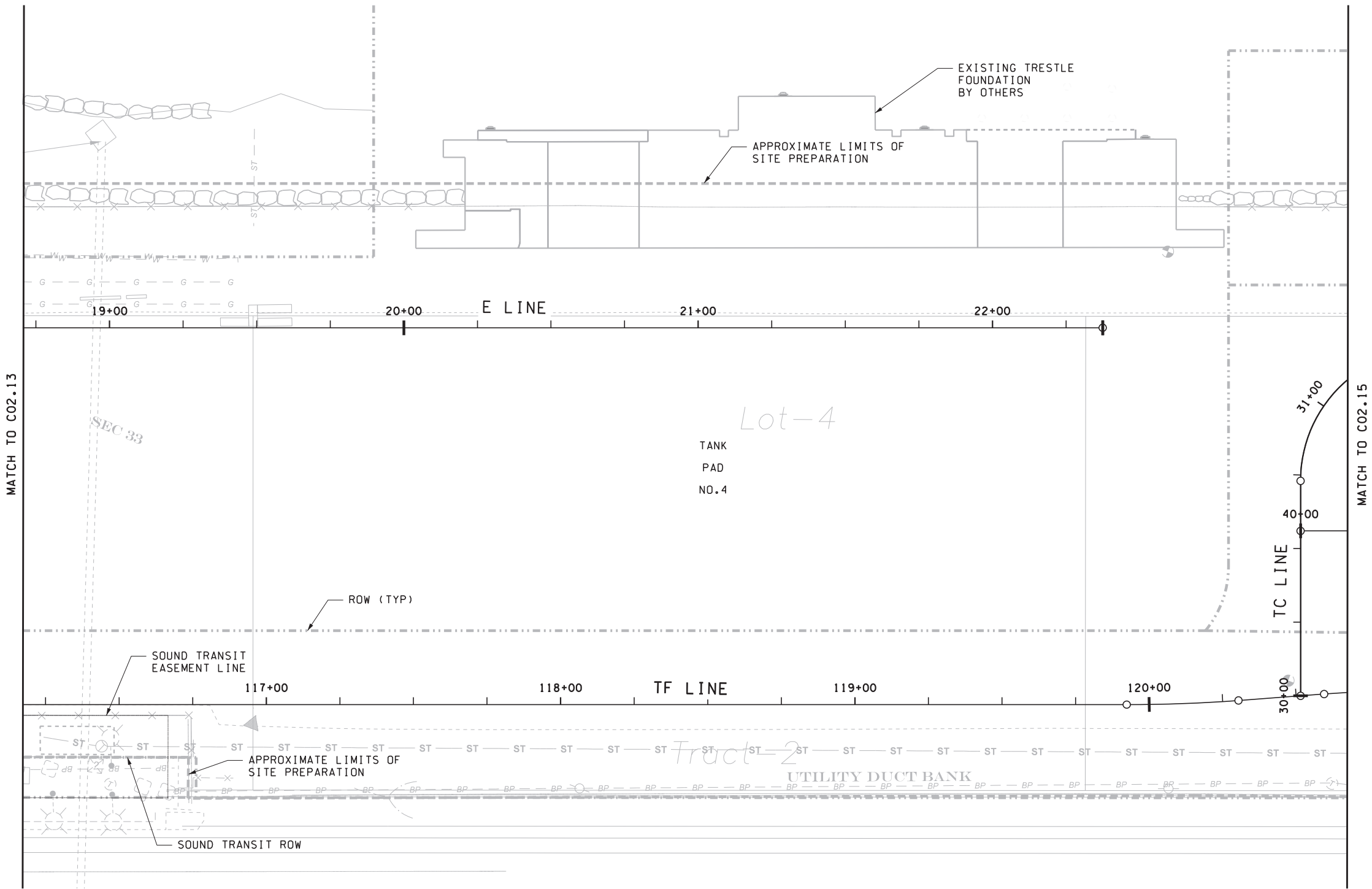
C02.13

SHEET
50
OF
1521
SHEETS

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CHECKED BY: R. LUDWIG	12/15/2017				10 WASH		
MAR PROJ ENGR: C. TORRES					JOB NUMBER		
DIR TERM ENGR: N. MCINTOSH					18W121		
ASST SECRETARY: A. SCARTON					CONTRACT NO.		
					00****		
	REVISION	DATE	BY				

NOTES:

1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
2. SEE PLAN SHEETS C04.00 - C04.16 FOR APPROXIMATE LIMITS OF SITE PREPARATION.
3. SEE BINDING SITE PLANS FOR ROW INFORMATION ON THE TANK FARM, EAST OF PARK AVE. BINDING SITE PLANS ARE INCLUDED IN THE APPENDICES TO THE CONTRACT PROVISIONS.



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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

EXISTING UTILITIES

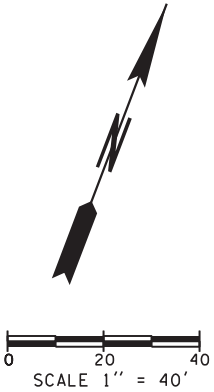
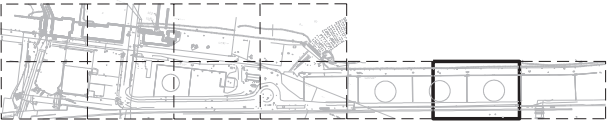
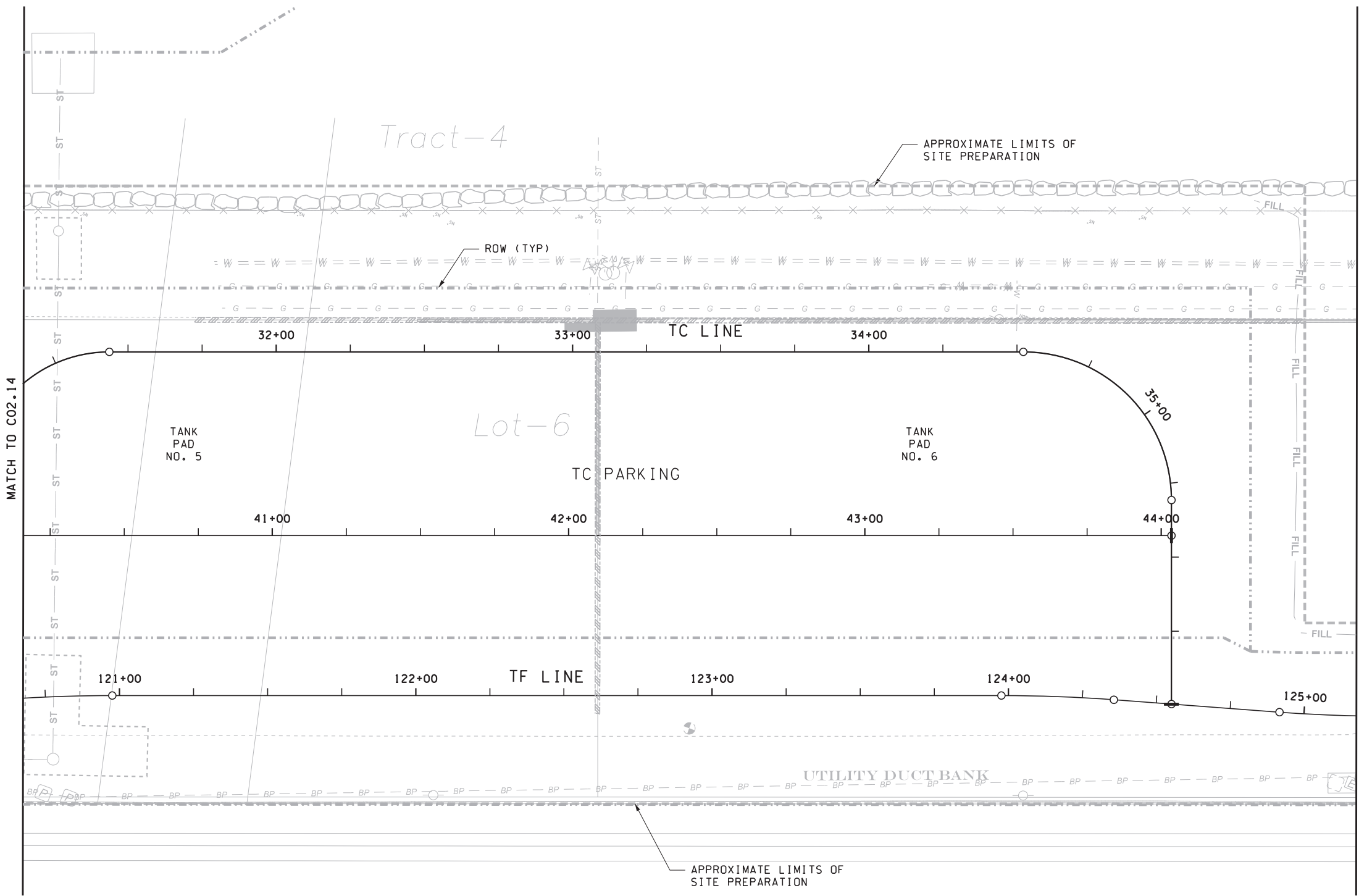
C02.14


SHEET
51
OF
1521
SHEETS

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CHECKED BY: R. LUDWIG	12/15/2017				10 WASH		
MAR PROJ ENGR: C. TORRES					JOB NUMBER		
DIR TERM ENGR: N. MCINTOSH					18W121		
ASST SECRETARY: A. SCARTON					CONTRACT NO.		
					00****		
	REVISION	DATE	BY				

NOTES:

1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
2. SEE PLAN SHEETS C04.00 - C04.16 FOR APPROXIMATE LIMITS OF SITE PREPARATION.
3. SEE BINDING SITE PLANS FOR ROW INFORMATION ON THE TANK FARM, EAST OF PARK AVE. BINDING SITE PLANS ARE INCLUDED IN THE APPENDICES TO THE CONTRACT PROVISIONS.

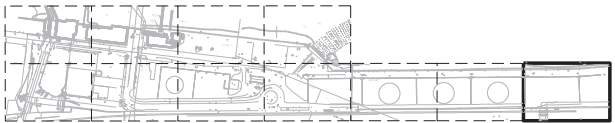
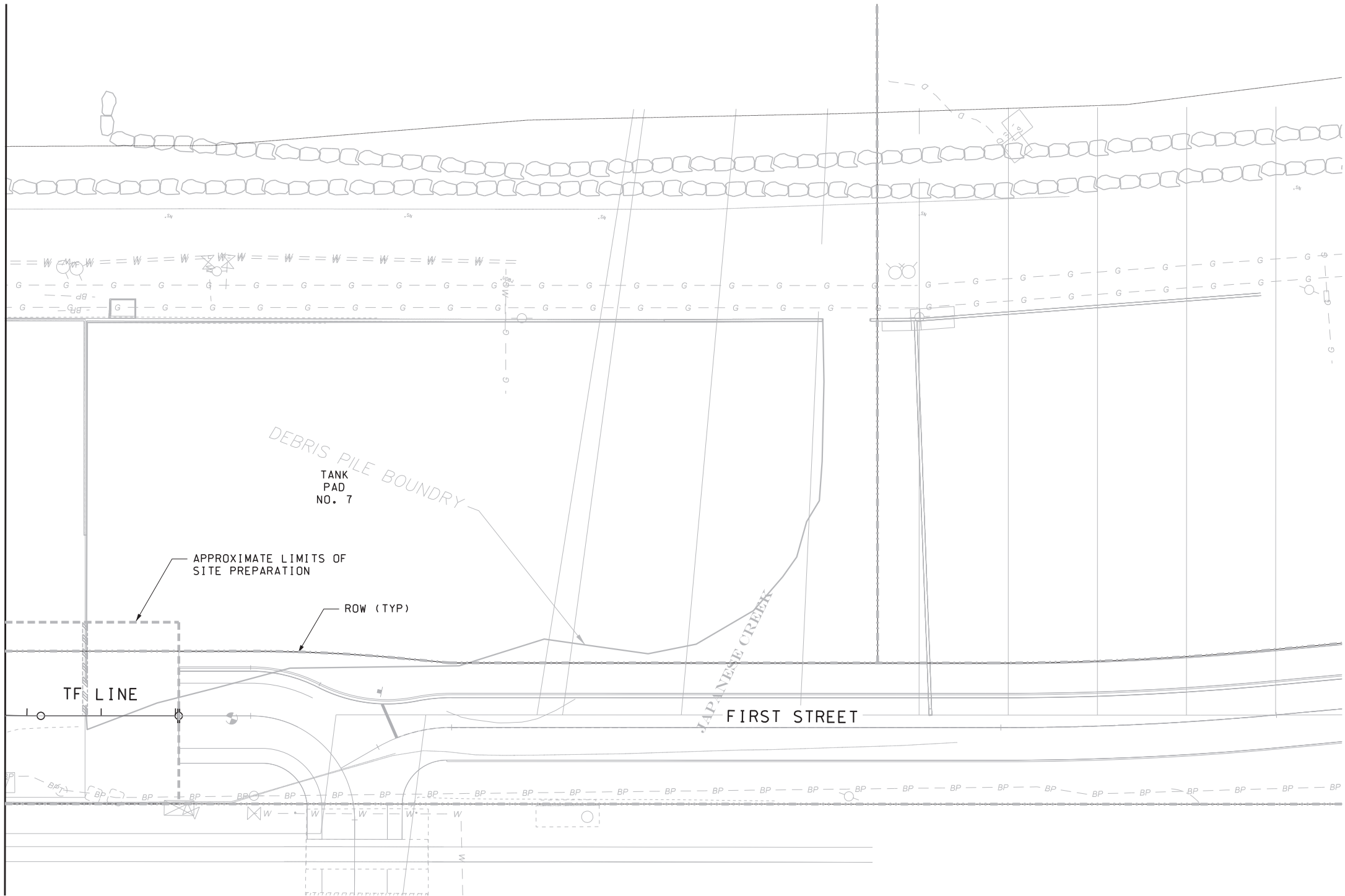


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SUBMITTAL DATE: 12/22/17		Contract		WA-2017-007-00		REGION NO. STATE		10 WASH		SHEET				
DESIGNED BY: D. PERRY		12/15/2017				JOB NUMBER		18W121		52				
ENTERED BY: D. PERRY		12/15/2017				CONTRACT NO.		00****		OF				
CHECKED BY: R. LUDWIG		12/15/2017								1521				
MAR PROJ ENGR: C. TORRES										SHEETS				
DIR TERM ENGR: N. MCINTOSH														
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY						

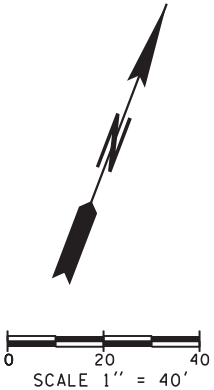
NOTES:

1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
2. SEE PLAN SHEETS C04.00 - C04.16 FOR APPROXIMATE LIMITS OF SITE PREPARATION.
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MATCH TO C02.15



KEY PLAN



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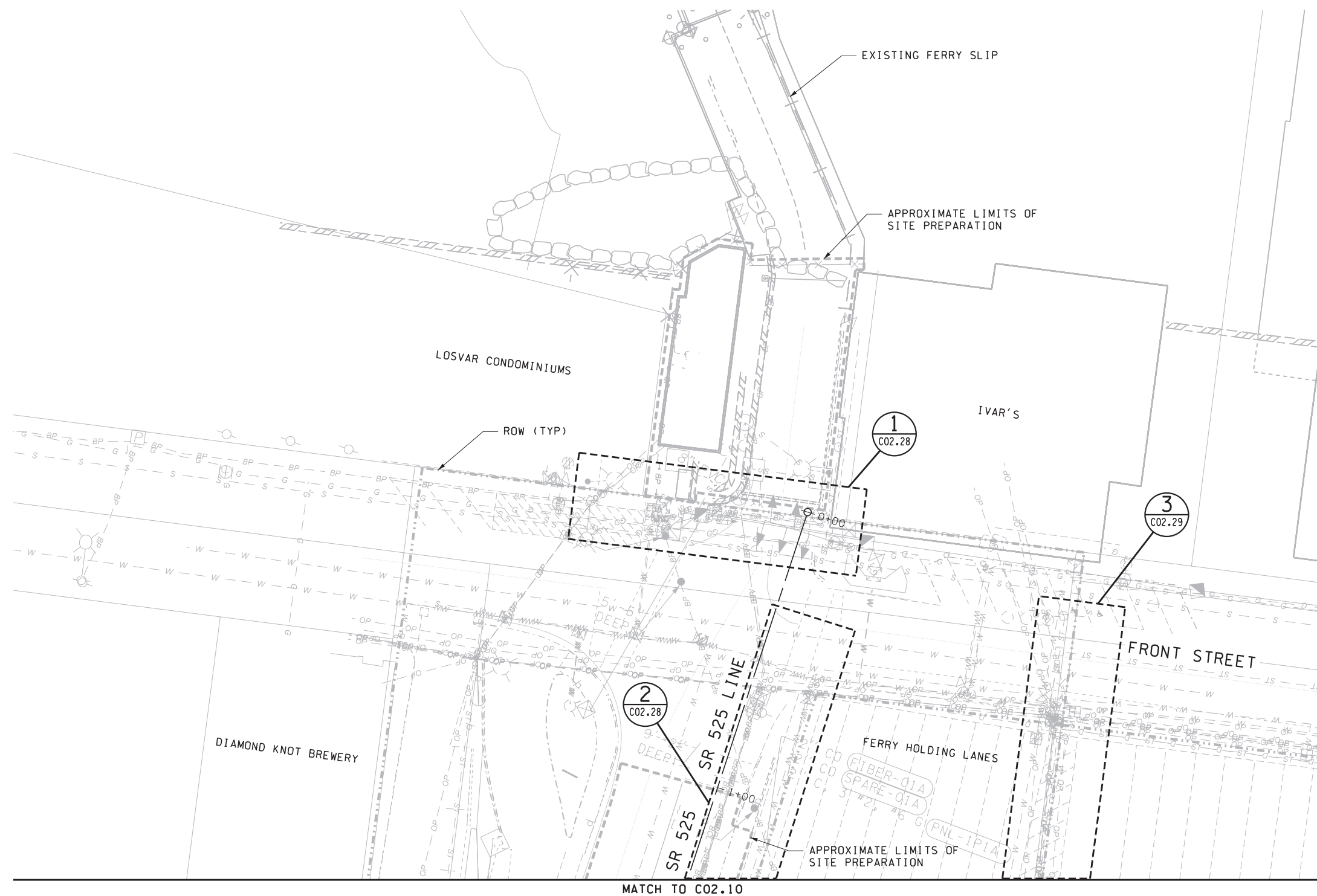
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

EXISTING UTILITIES

C02.16

SHEET
53
OF
1521
SHEETS

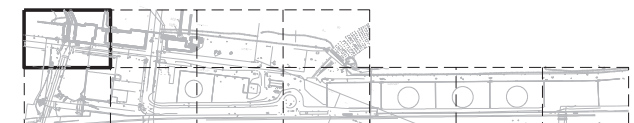
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SUBMITTAL DATE: 12/22/17	ConradCS				WA-2017-007-00
DESIGNED BY: D. PERRY	12/15/2017				REGION NO. STATE
ENTERED BY: D. PERRY	12/15/2017				10 WASH
CHECKED BY: R. LUDWIG	12/15/2017				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00*****
	REVISION	DATE	BY		



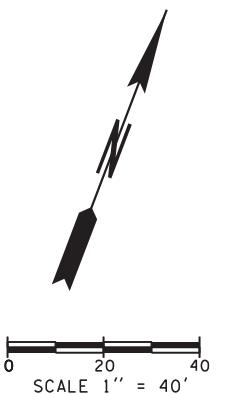
NOTES:

1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
2. SEE PLAN SHEETS C04.00 - C04.16 FOR APPROXIMATE LIMITS OF SITE PREPARATION.
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MATCH TO C02.18



KEY PLAN

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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

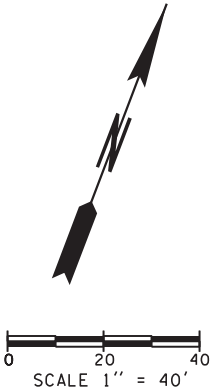
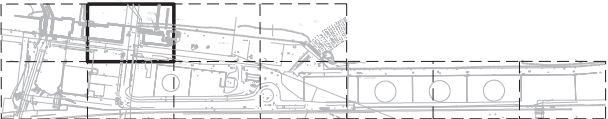
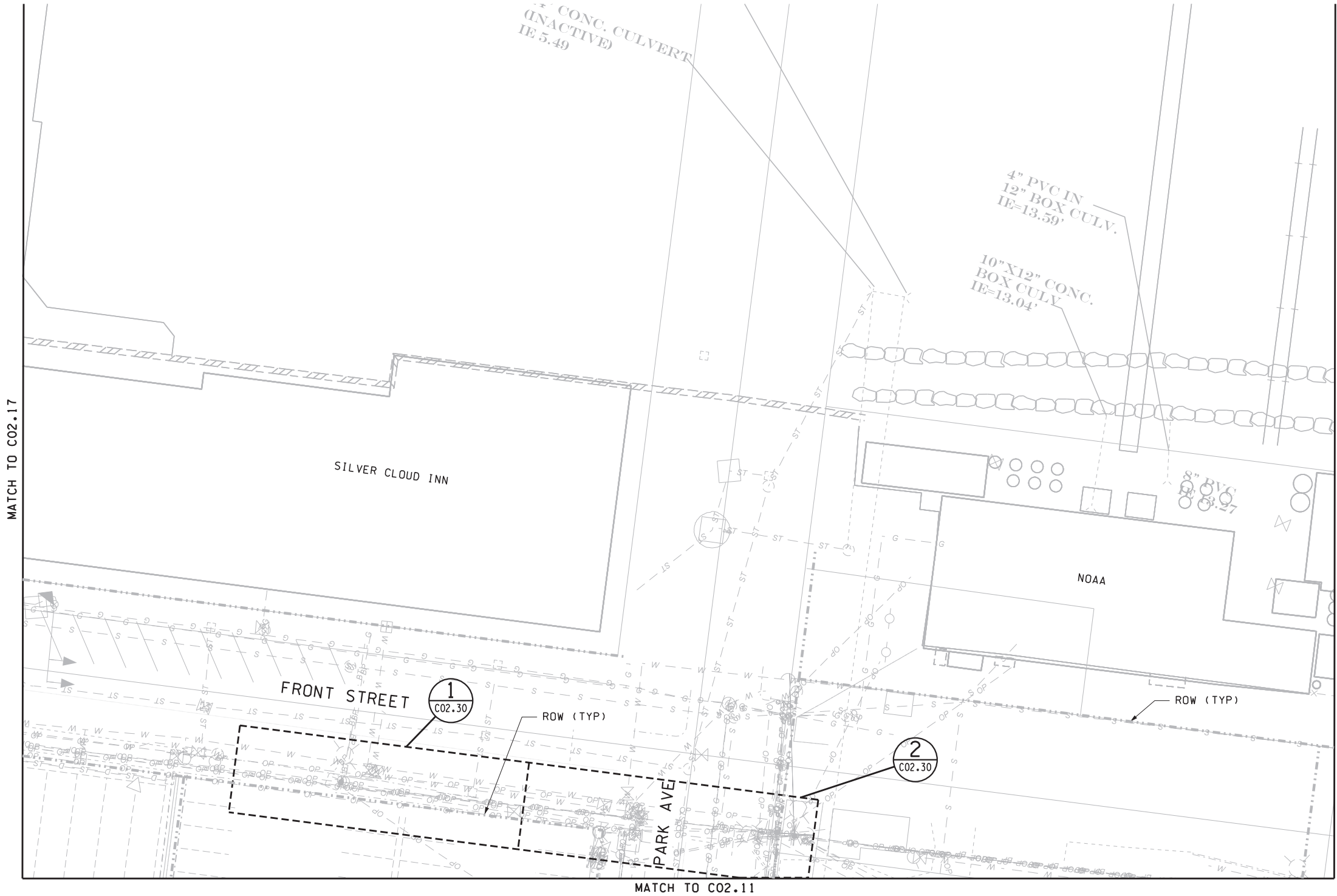
EXISTING UTILITIES

C02.17

SHEET
54
OF
1521
SHEETS

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ENTERED BY: D. PERRY			12/15/2017					REGION NO. STATE	
CHECKED BY: R. LUDWIG			12/15/2017					10 WASH	
MAR PROJ ENGR: C. TORRES								JOB NUMBER	
DIR TERM ENGR: N. MCINTOSH								18W121	
ASST SECRETARY: A. SCARTON								CONTRACT NO.	
					REVISION		DATE	BY	00****

- NOTES:**
1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
 2. SEE PLAN SHEETS C04.00 - C04.16 FOR APPROXIMATE LIMITS OF SITE PREPARATION.
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SUBMITTAL DATE: 12/22/17	Contract				WA-2017-007-00
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ENTERED BY: D. PERRY	12/15/2017				10 WASH
CHECKED BY: R. LUDWIG	12/15/2017				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00*****
	REVISION	DATE	BY		



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

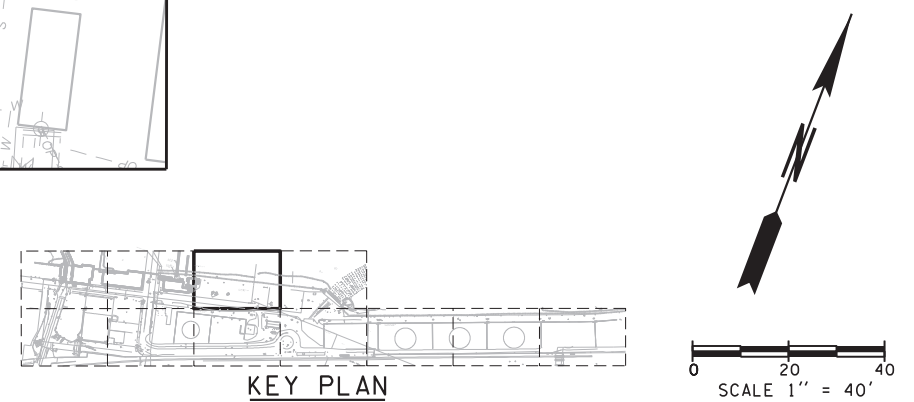
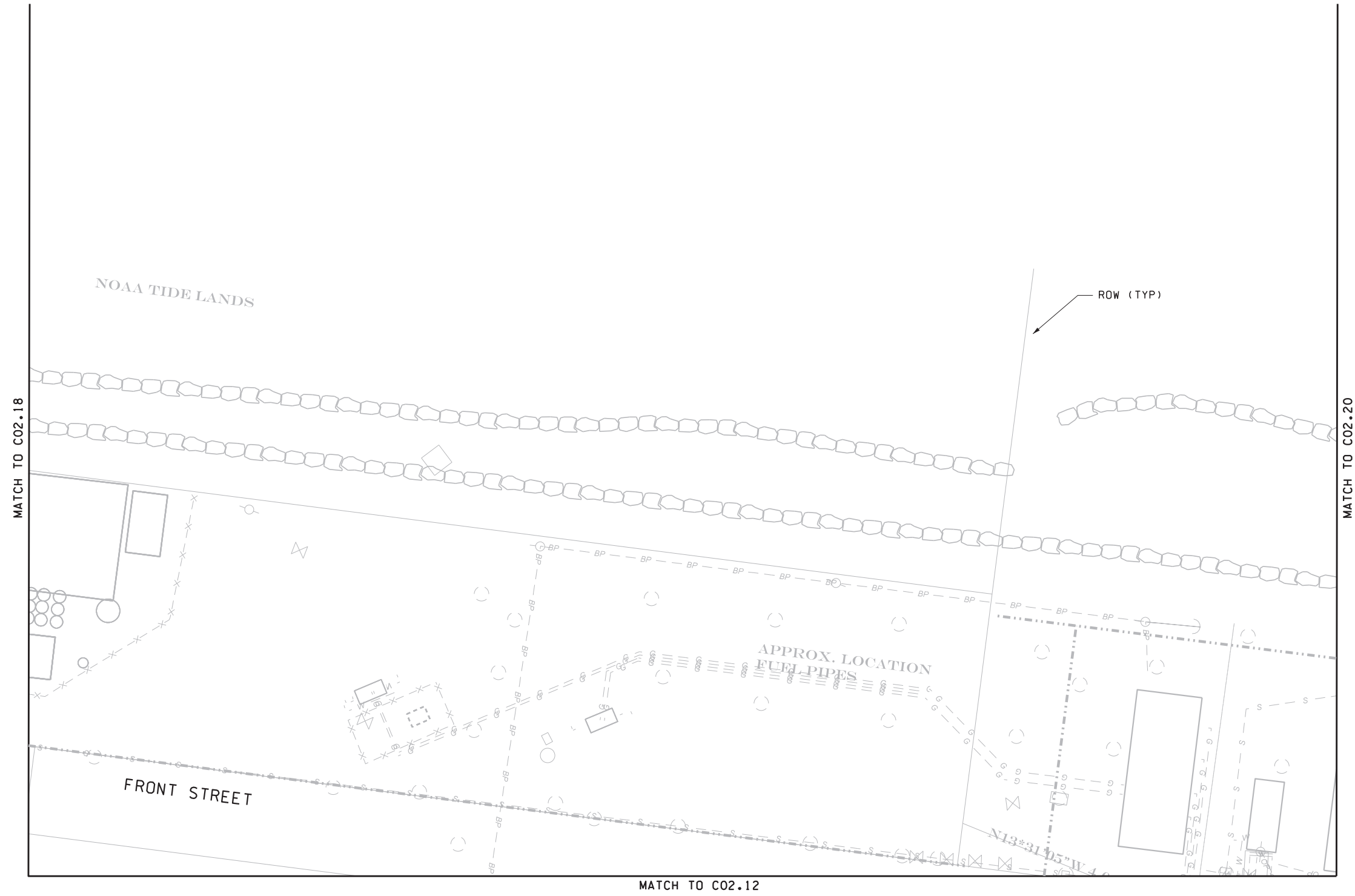
/ /2017


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

EXISTING UTILITIES

C02.18
SHEET
55
OF
1521
SHEETS

- NOTES:**
- 1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
 - 2. SEE PLAN SHEETS C04.00 - C04.16 FOR APPROXIMATE LIMITS OF SITE PREPARATION.
 - 3. SEE BINDING SITE PLANS FOR ROW INFORMATION ON THE TANK FARM, EAST OF PARK AVE. BINDING SITE PLANS ARE INCLUDED IN THE APPENDICES TO THE CONTRACT PROVISIONS.



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c02-19.dwg										<div></div> <div>Washington State Department of Transportation WASHINGTON STATE FERRIES</div>		SR 525		C02.19	
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SUBMITTAL DATE: 12/22/17		ConradCS						FERRY TERMINAL CONSTRUCTION				SHEET			
DESIGNED BY: D. PERRY		12/15/2017				WA-2017-007-00						56			
ENTERED BY: D. PERRY		12/15/2017				REGION NO. STATE						OF			
CHECKED BY: R. LUDWIG		12/15/2017				10 WASH						1521			
MAR PROJ ENGR: C. TORRES						JOB NUMBER						SHEETS			
DIR TERM ENGR: N. MCINTOSH						18W121									
ASST SECRETARY: A. SCARTON						CONTRACT NO.									
		REVISION		DATE		BY		00****							

NOTES:

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3. SEE BINDING SITE PLANS FOR ROW INFORMATION ON THE TANK FARM, EAST OF PARK AVE. BINDING SITE PLANS ARE INCLUDED IN THE APPENDICES TO THE CONTRACT PROVISIONS.

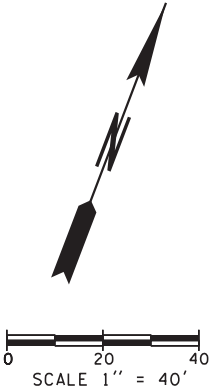
MATCH TO C02.19

ROW (TYP)

MATCH TO C02.13



KEY PLAN



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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

EXISTING UTILITIES

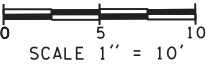
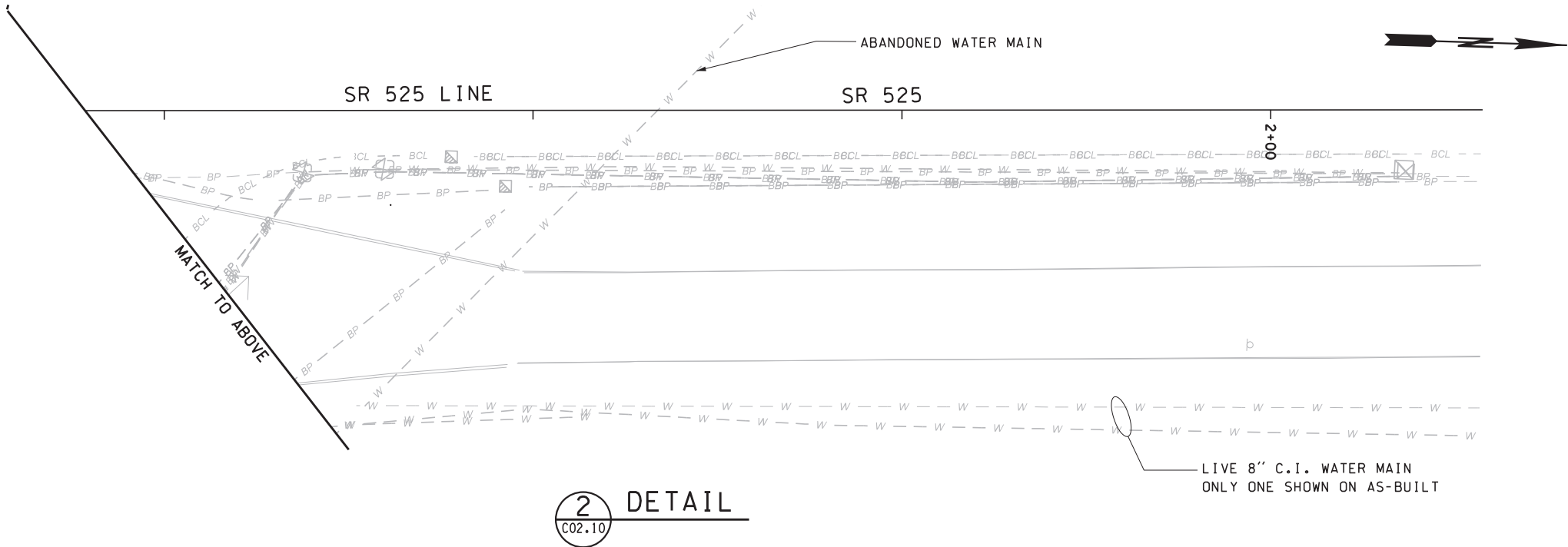
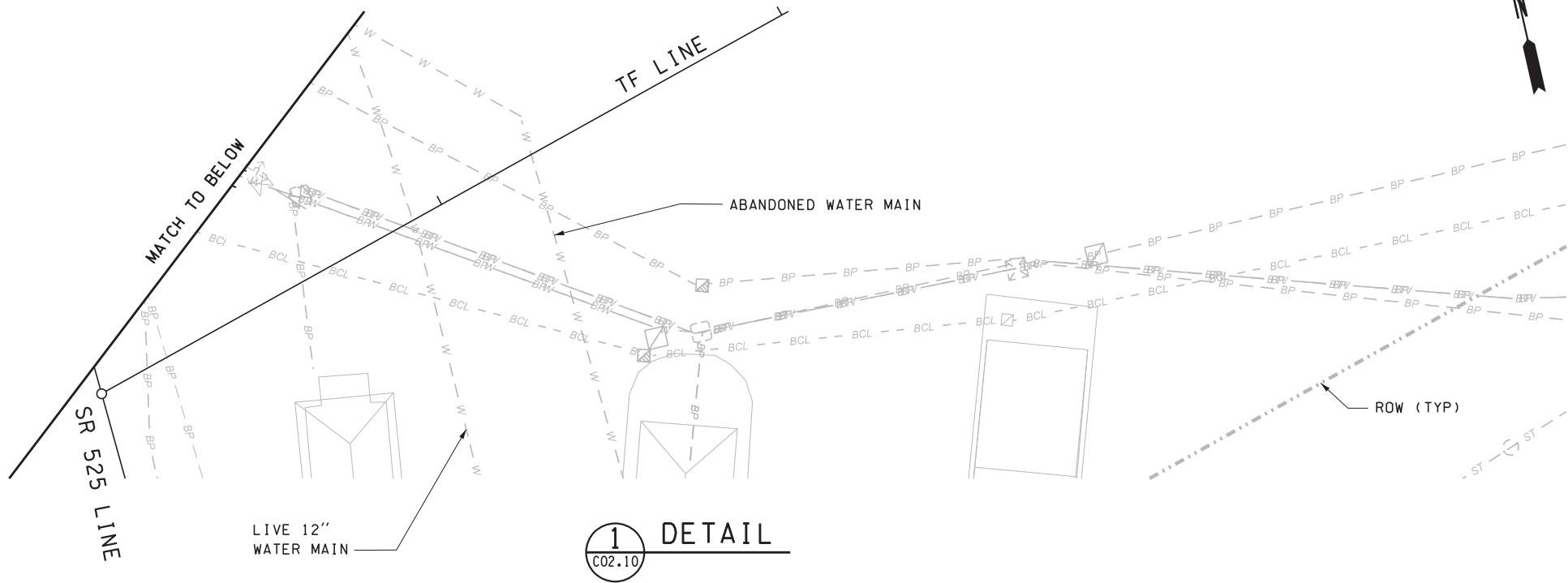
C02.20


SHEET
57
OF
1521
SHEETS

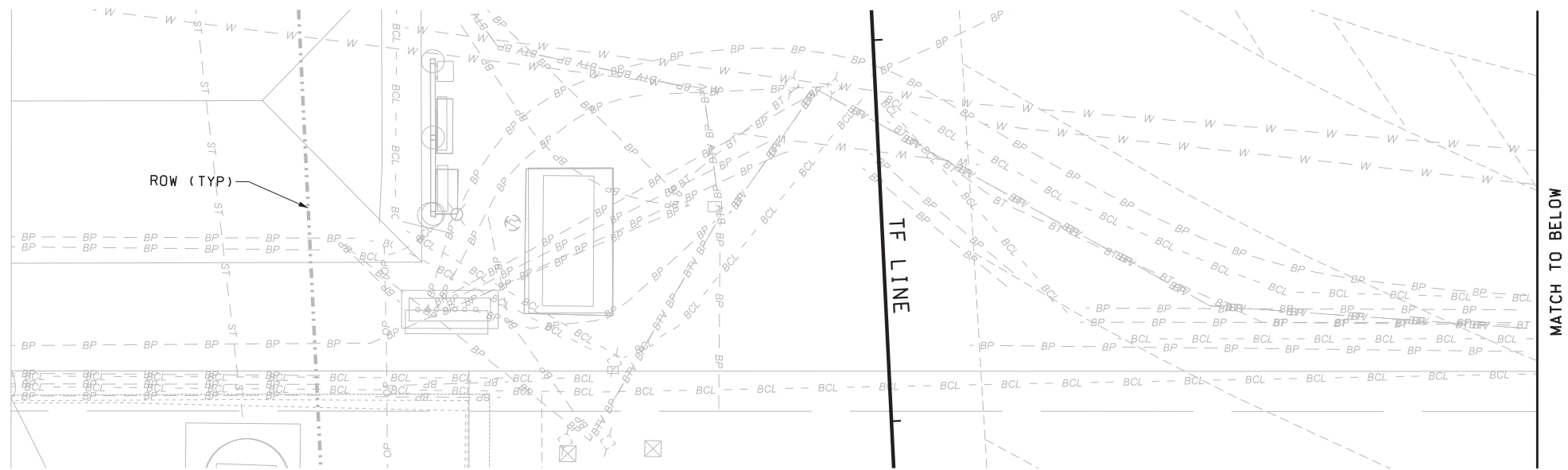
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ENTERED BY: D. PERRY	12/15/2017				10 WASH
CHECKED BY: R. LUDWIG	12/15/2017				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00*****
	REVISION	DATE	BY		

NOTES:

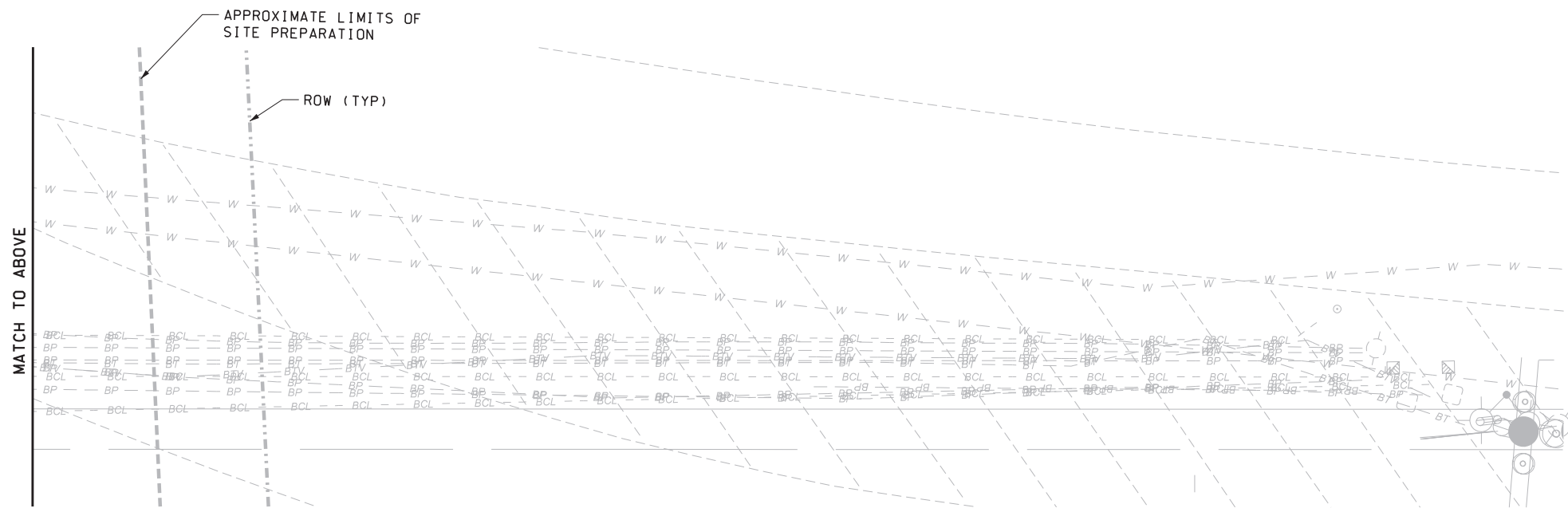
1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
2. SEE PLAN SHEETS C04.00 - C04.16 FOR APPROXIMATE LIMITS OF SITE PREPARATION.
3. SEE BINDING SITE PLANS FOR ROW INFORMATION ON THE TANK FARM, EAST OF PARK AVE. BINDING SITE PLANS ARE INCLUDED IN THE APPENDICES TO THE CONTRACT PROVISIONS.



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121c02-21.dwg														 Washington State Department of Transportation WASHINGTON STATE FERRIES		SR 525		C02.21	
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CHECKED BY: R. LUDWIG		3/2/2018						10 WASH						SHEETS					
MAR PROJ ENGR: C. TORRES								JOB NUMBER 18W121											
DIR TERM ENGR: N. MCINTOSH								CONTRACT NO. 00****											
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY											



3
C02.10
DETAIL



4
C02.10
DETAIL

NOTES:

1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
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0 5 10
SCALE 1" = 10'

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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

EXISTING UTILITIES

C02.22

SHEET

59

OF

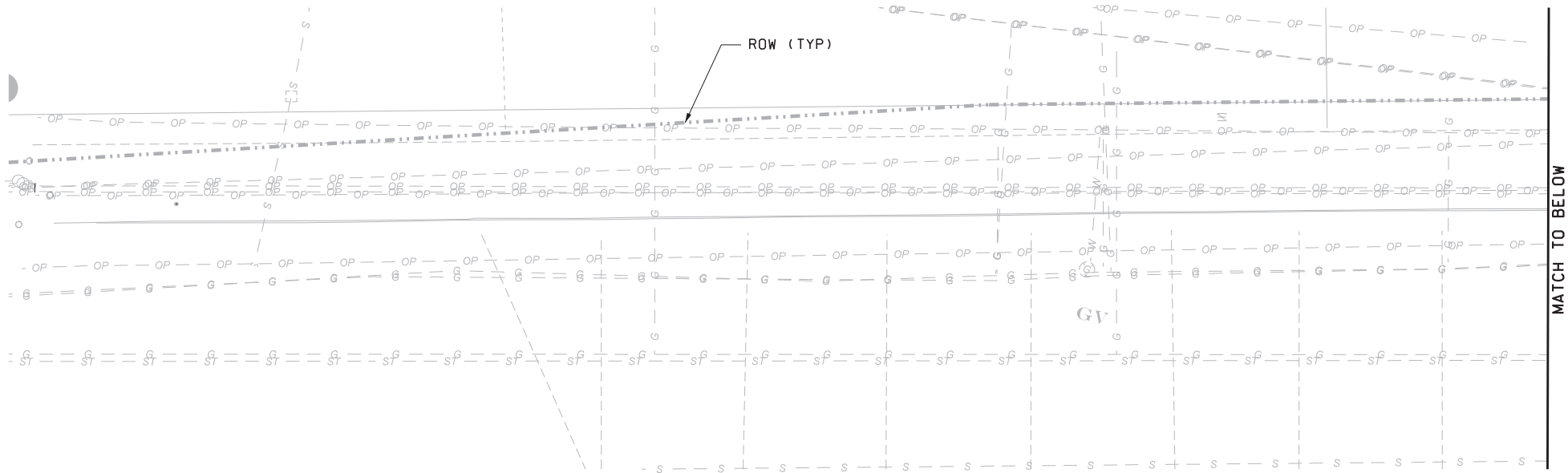
1521

SHEETS

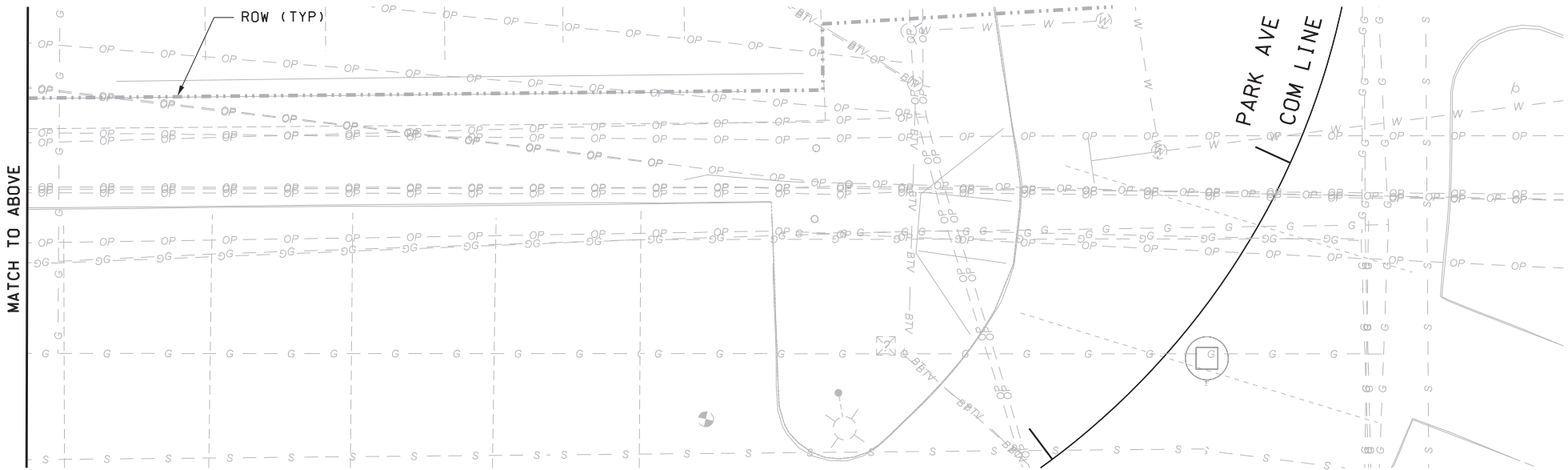
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DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00*****
REVISION	DATE	BY			

NOTES:

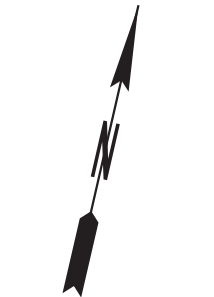
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2. SEE PLAN SHEETS C04.00 - C04.16 FOR APPROXIMATE LIMITS OF SITE PREPARATION.
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1
C02.11
DETAIL



2
C02.11
DETAIL



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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

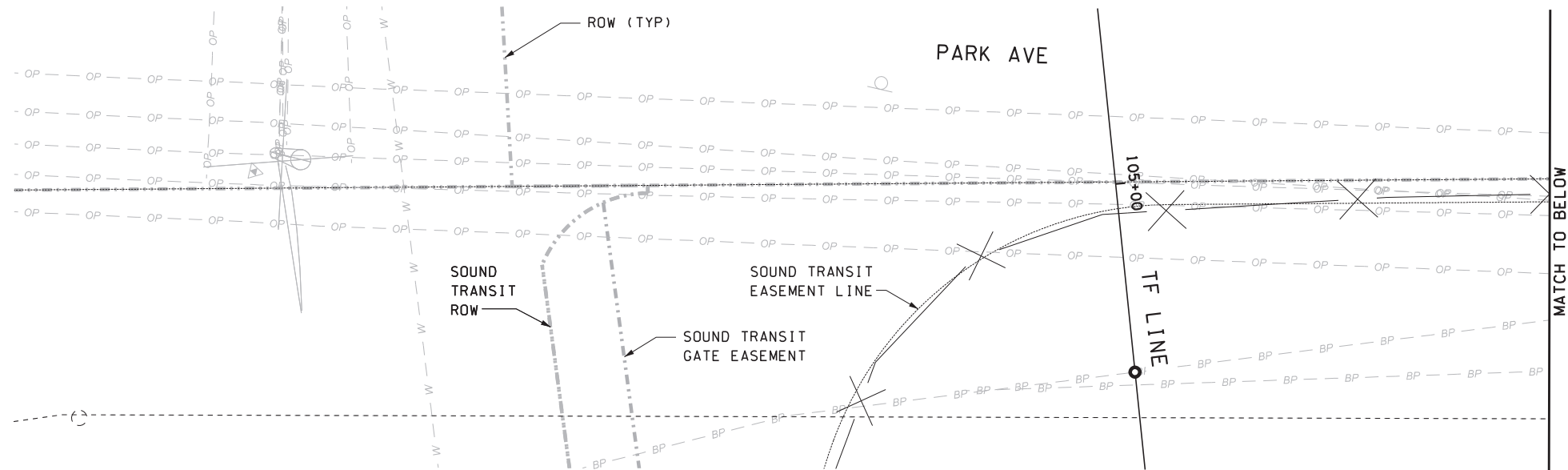
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

EXISTING UTILITIES

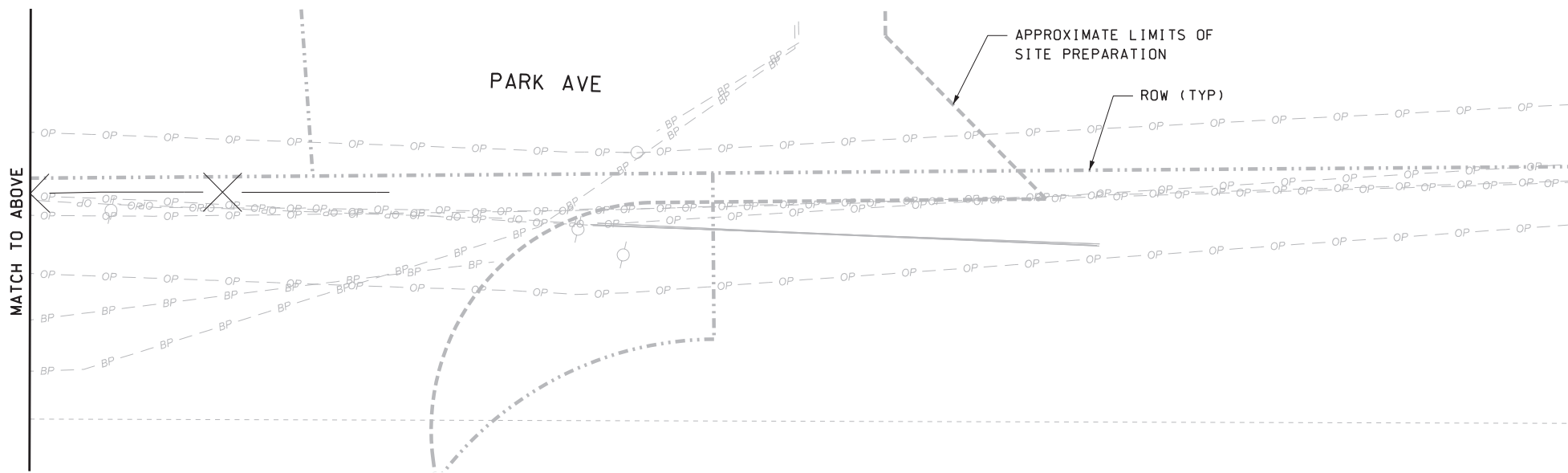
C02.23

SHEET
60
OF
1521
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121c02_23.dwg					
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SUBMITTAL DATE: 12/22/17	Contract				WA-2017-007-00
DESIGNED BY: D. PERRY	12/15/2017				REGION NO. STATE
ENTERED BY: D. PERRY	12/15/2017				10 WASH
CHECKED BY: R. LUDWIG	12/15/2017				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	00*****



3 DETAIL
C02.11




4 DETAIL
C02.11

NOTES:

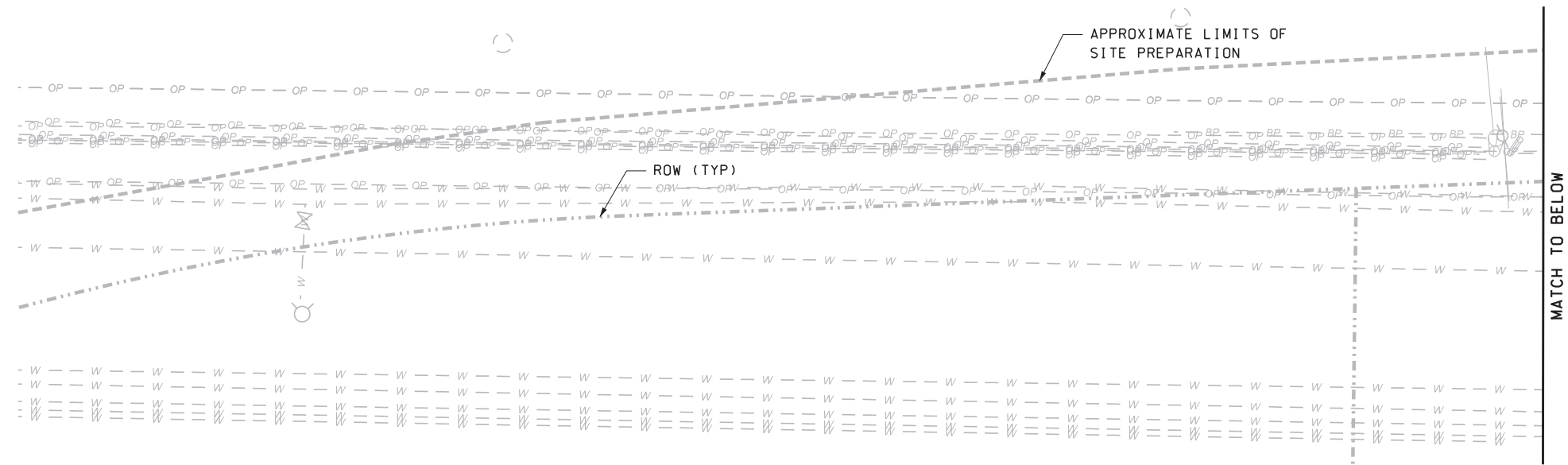
1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
2. SEE PLAN SHEETS C04.00 - C04.16 FOR APPROXIMATE LIMITS OF SITE PREPARATION.
3. SEE BINDING SITE PLANS FOR ROW INFORMATION ON THE TANK FARM, EAST OF PARK AVE. BINDING SITE PLANS ARE INCLUDED IN THE APPENDICES TO THE CONTRACT PROVISIONS.



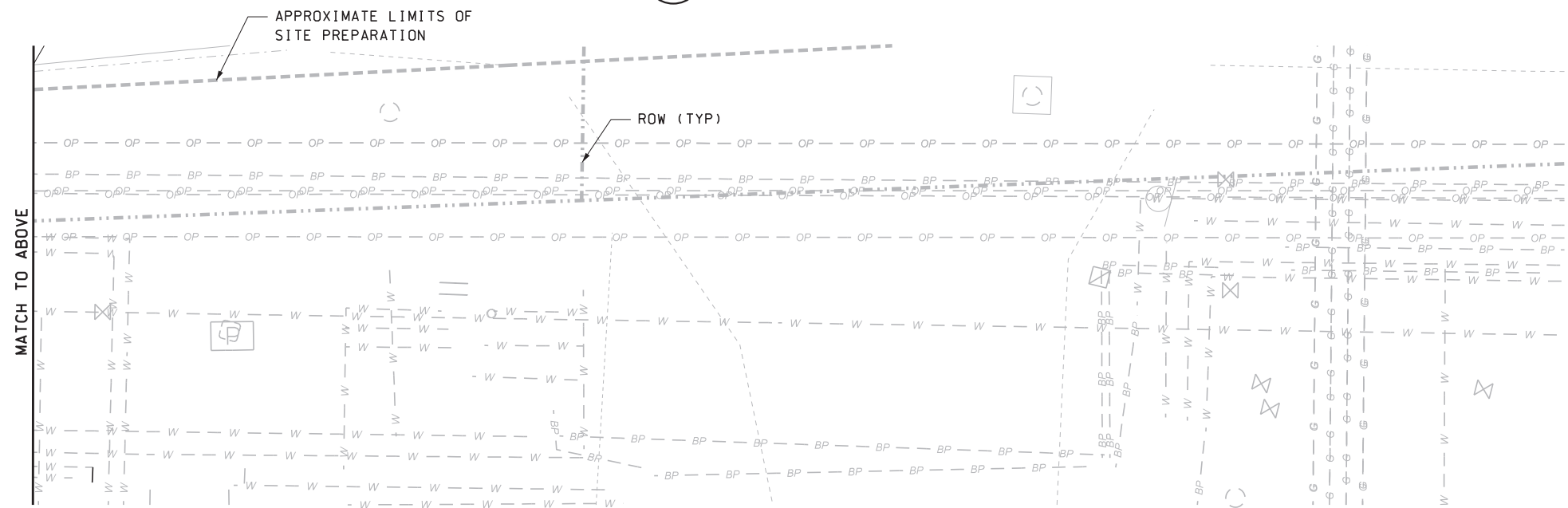
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SUBMITTAL DATE: 12/22/17		LAST PRINTED BY: ConradCS								FED.AID PROJ.NO.		WA-2017-007-00		SHEET 61 OF 1521 SHEETS			
DESIGNED BY: D. PERRY		12/15/2017															
ENTERED BY: D. PERRY		12/15/2017								REGION NO. STATE		10 WASH					
CHECKED BY: R. LUDWIG		12/15/2017															
MAR PROJ ENGR: C. TORRES										JOB NUMBER 18W121		/ /2017					
DIR TERM ENGR: N. MCINTOSH																	
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY		CONTRACT NO. 00*****		Washington State Department of Transportation WASHINGTON STATE FERRIES		MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION		EXISTING UTILITIES	

NOTES:

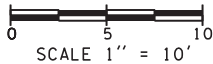
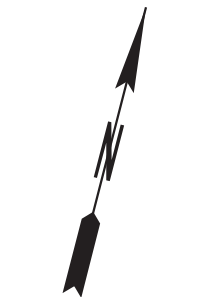
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1
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2
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DETAIL



JACOBS



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

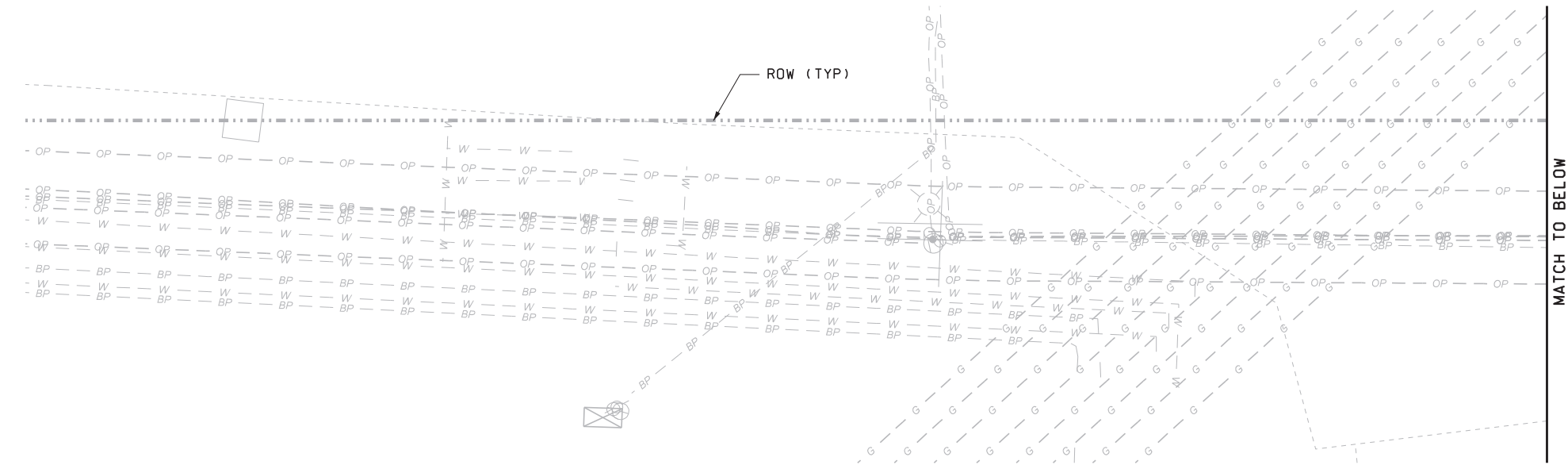
EXISTING UTILITIES

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62
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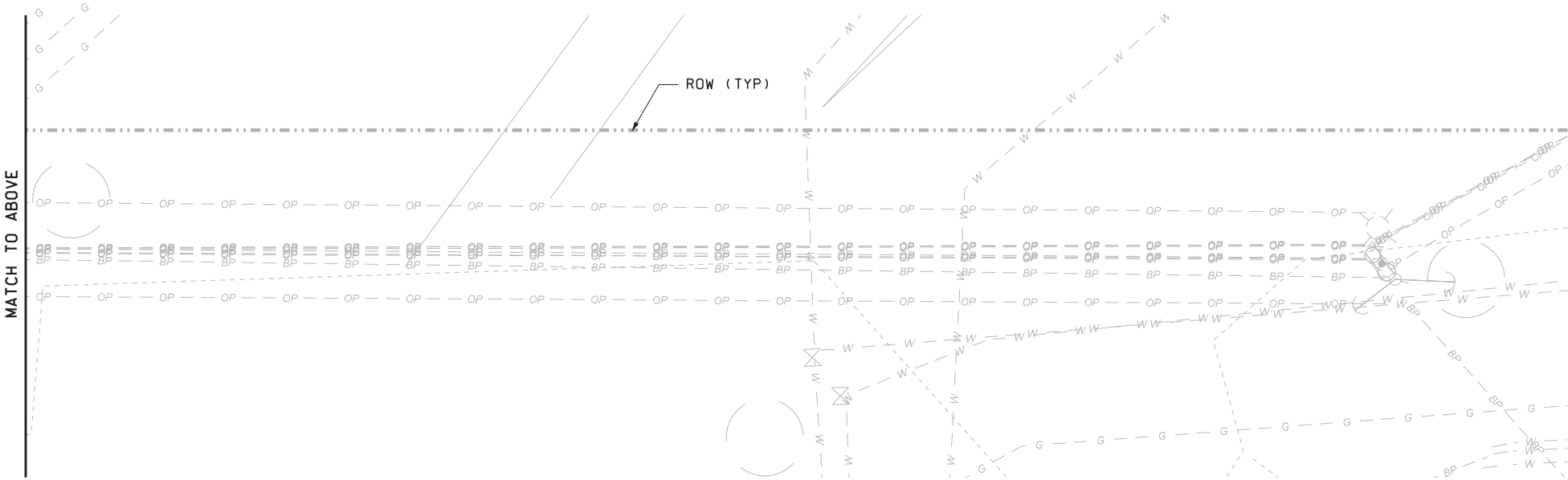
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SUBMITTAL DATE: 12/22/17	Contract				WA-2017-007-00
DESIGNED BY: D. PERRY	12/15/2017				REGION NO. STATE
ENTERED BY: D. PERRY	12/15/2017				10 WASH
CHECKED BY: R. LUDWIG	12/15/2017				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	00*****

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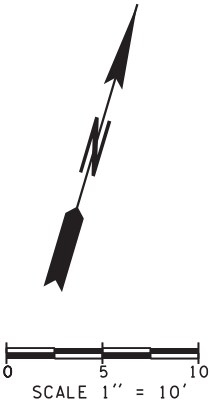
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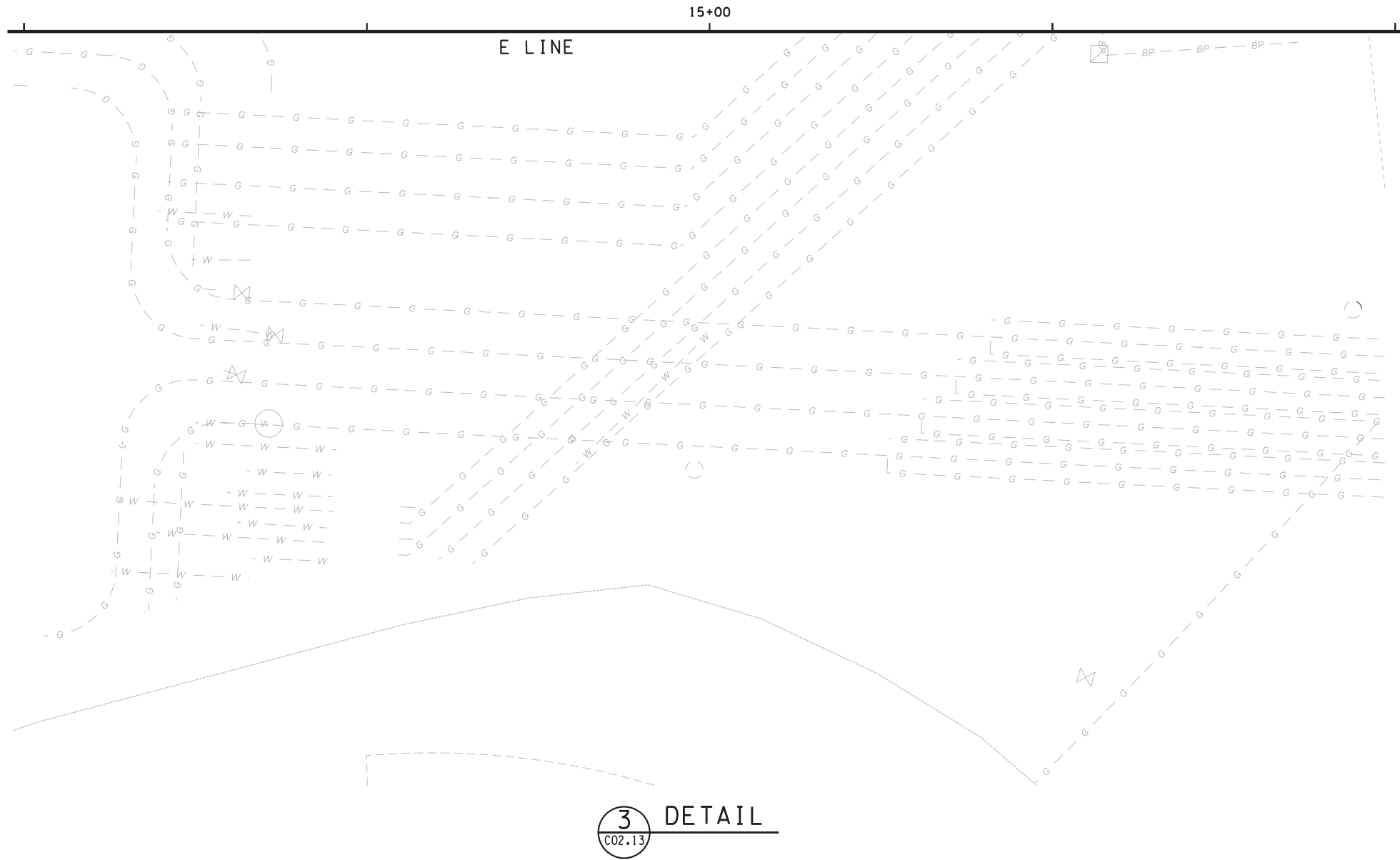
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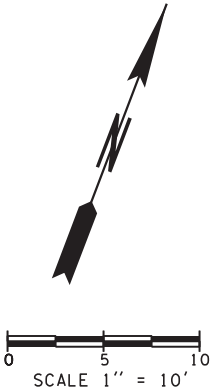
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FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 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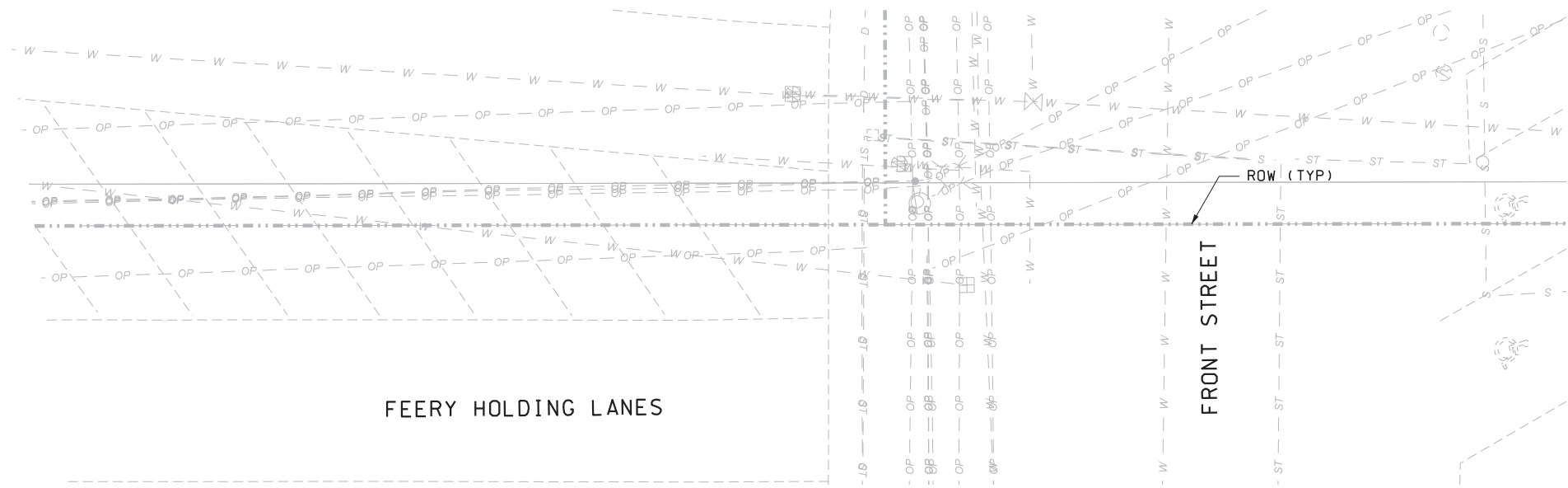
- NOTES:**
- 1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
 - 2. SEE PLAN SHEETS C04.00 - C04.16 FOR APPROXIMATE LIMITS OF SITE PREPARATION.
 - 3. SEE BINDING SITE PLANS FOR ROW INFORMATION ON THE TANK FARM, EAST OF PARK AVE. BINDING SITE PLANS ARE INCLUDED IN THE APPENDICES TO THE CONTRACT PROVISIONS.



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121c02-27.dwg										<div><p>Washington State Department of Transportation WASHINGTON STATE FERRIES</p></div>		SR 525		C02.27	
PRINTED: 12:48:37 PM 12/15/2017		LAST PRINTED BY:				FED.AID PROJ.NO.		MUKILTEO FERRY TERMINAL (PHASE 2)				SHEET			
SUBMITTAL DATE: 12/22/17		ConradCS				WA-2017-007-00		FERRY TERMINAL CONSTRUCTION				64			
DESIGNED BY: D. PERRY		12/15/2017				REGION NO. STATE						OF			
ENTERED BY: D. PERRY		12/15/2017				10 WASH						1521			
CHECKED BY: R. LUDWIG		12/15/2017				JOB NUMBER 18W121						SHEETS			
MAR PROJ ENGR: C. TORRES						CONTRACT NO. 00****									
DIR TERM ENGR: N. MCINTOSH															
ASST SECRETARY: A. SCARTON		REVISION		DATE		BY									
										/ /2017					



SHEET
65
OF
1521
SHEETS

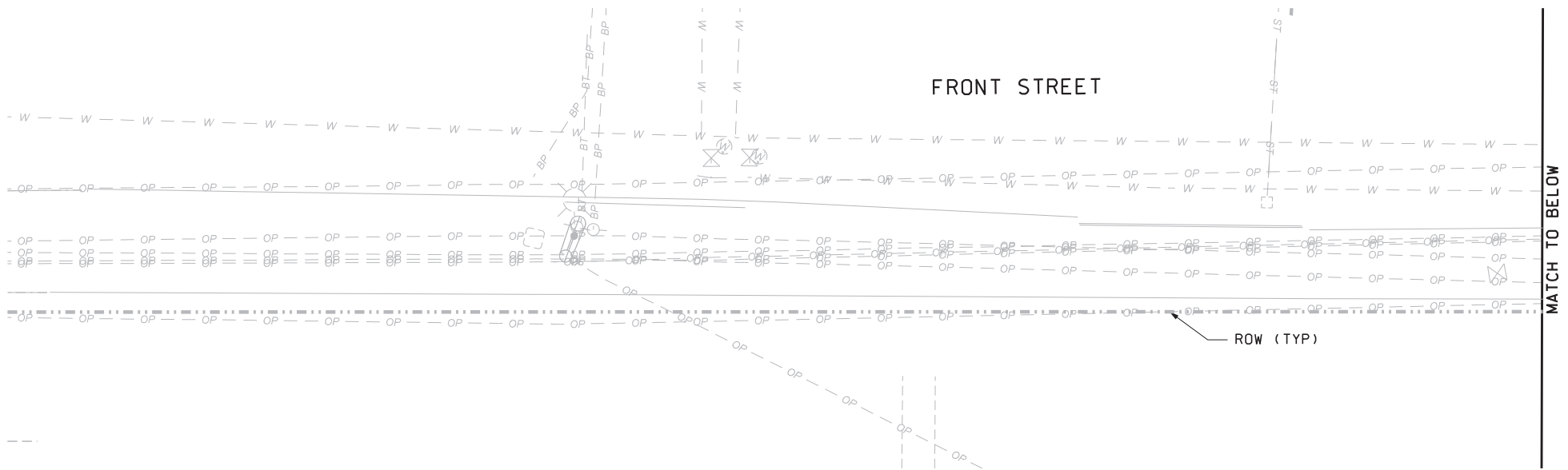


3 DETAIL
C02.17

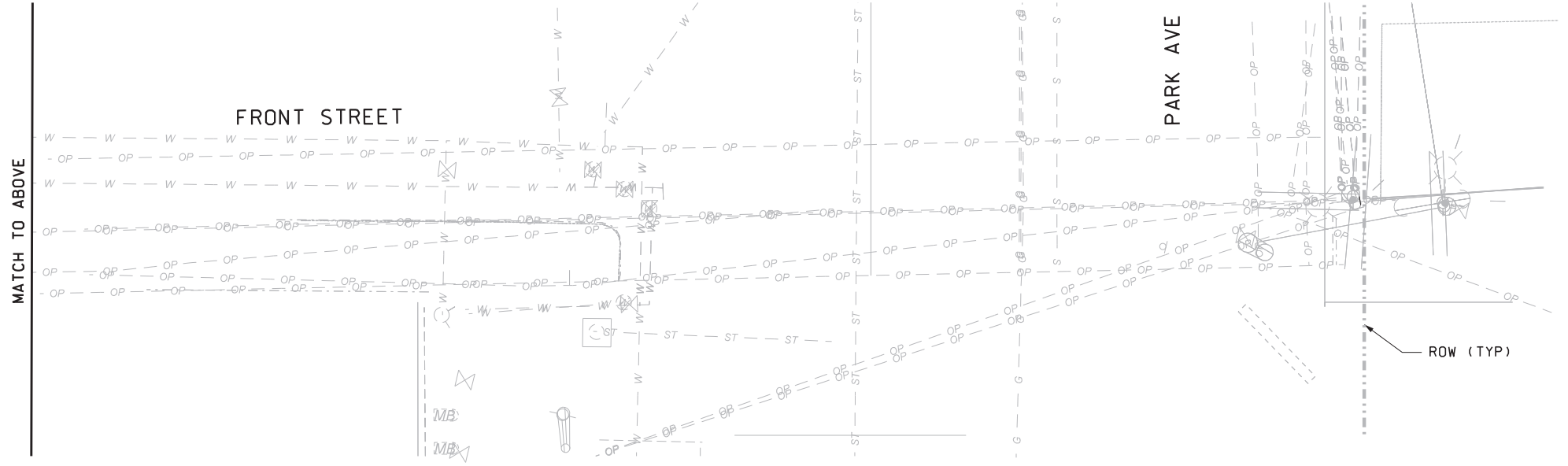
- NOTES:
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FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 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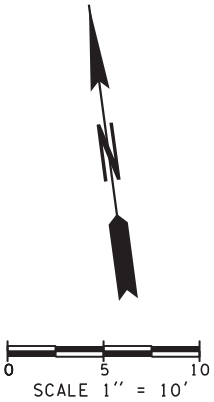



1
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DETAIL

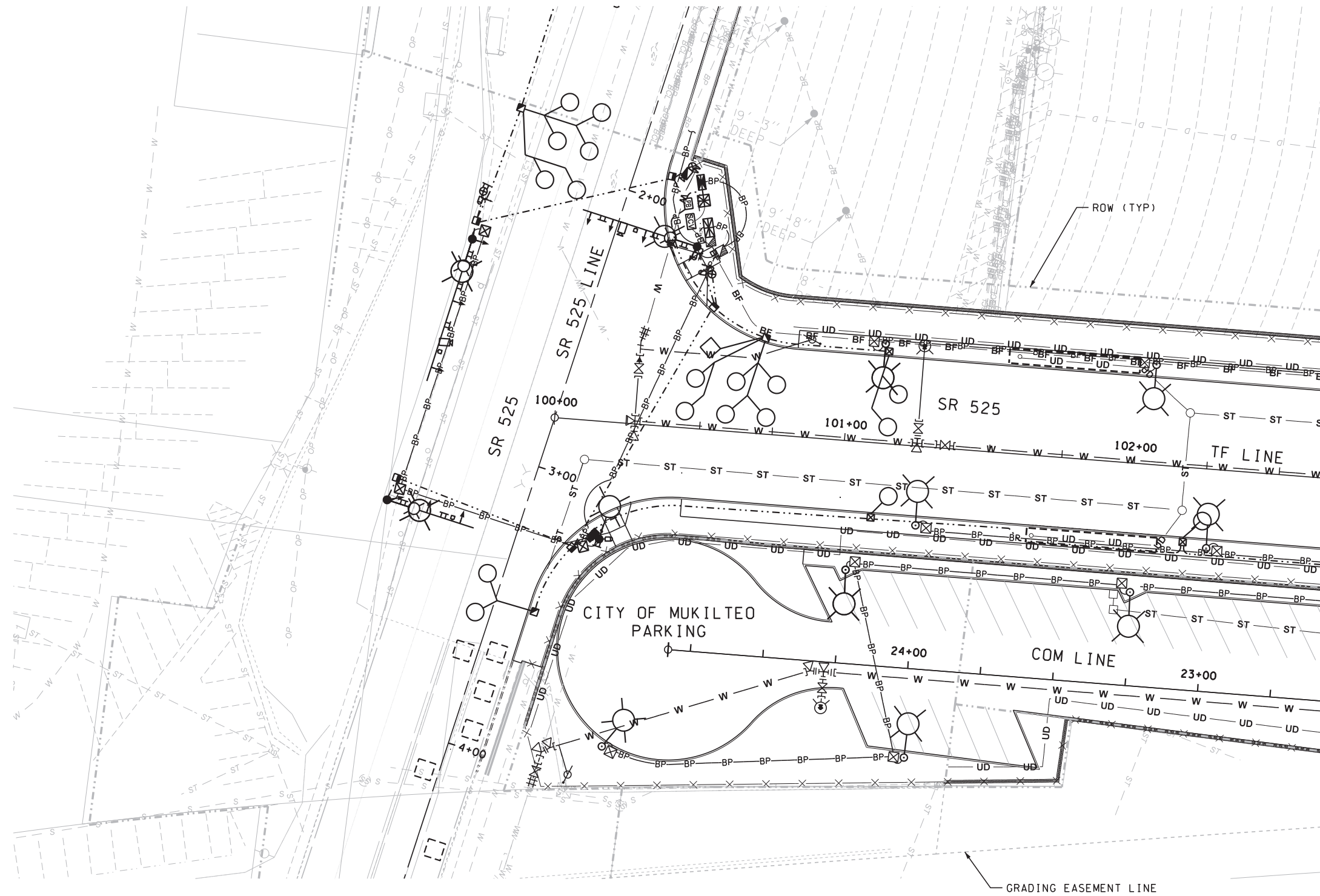


2
C02.18
DETAIL

- NOTES:**
1. SEE PLAN SHEETS C06.10 - C06.16 FOR ROADWAY ALIGNMENT INFORMATION.
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FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c02_30.dwg										 Washington State Department of Transportation WASHINGTON STATE FERRIES		SR 525		C02.30	
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SUBMITTAL DATE: 12/22/17		Contract						WA-2017-007-00				67			
DESIGNED BY: D. PERRY		12/15/2017						REGION NO. STATE				OF			
ENTERED BY: D. PERRY		12/15/2017						10 WASH				1521			
CHECKED BY: R. LUDWIG		12/15/2017						JOB NUMBER 18W121				SHEETS			
MAR PROJ ENGR: C. TORRES								CONTRACT NO. 00****							
DIR TERM ENGR: N. MCINTOSH															
ASST SECRETARY: A. SCARTON				REVISION		DATE BY									

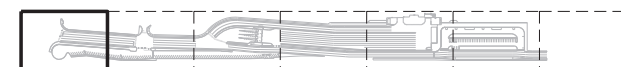


MATCH TO C02.51

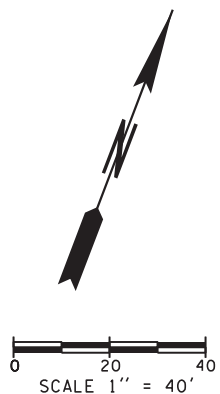
NOTES:

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3. FOR DRAINAGE PLANS SEE C07.00 SERIES SHEETS.
4. FOR WATER AND SANITARY SEWER PLANS SEE C08.00 SERIES SHEETS.
5. FOR ELECTRICAL PLANS SEE ES02.00 SERIES SHEETS.
6. FOR ILLUMINATION PLANS SEE ES08.00 SERIES SHEETS.
7. FOR SITE COMMUNICATION PLANS SEE ES12.00 SERIES SHEETS.
8. FOR IRRIGATION PLANS SEE C09.00 SERIES.
9. FOR SIGNALIZATION PLANS SEE C16.00 SERIES.
10. FOR ELEVATOR HYDRAULIC UTILITIES INFORMATION SEE TERMINAL BUILDING SPECIFICATION SECTION 14.24.00, HYDRAULIC ELEVATORS, FOR BURIED ELEVATOR SERVICE UTILITIES GOING FROM THE MAINTENANCE BUILDING SERVICE ROOM 122, ELEVATOR EQUIPMENT 2, TO THE TERMINAL BUILDING ELEVATOR 2 AND 3 PIT. COORDINATE REQUIREMENTS WITH ELEVATOR SUPPLIER.

FOR REFERENCE ONLY



KEY PLAN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c02_50.dwg							
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SUBMITTAL DATE: 12/22/17	CONTRACT NO.					WA-2017-007-00	
DESIGNED BY: D. PERRY	3/5/2018					REGION NO. STATE	
ENTERED BY: D. PERRY	3/5/2018					10 WASH	
CHECKED BY: R. LUDWIG	3/5/2018					JOB NUMBER	
MAR PROJ ENGR: C. TORRES						18W121	
DIR TERM ENGR: N. MCINTOSH						CONTRACT NO.	
ASST SECRETARY: A. SCARTON						00****	
REVISION		DATE	BY				

/ /2017

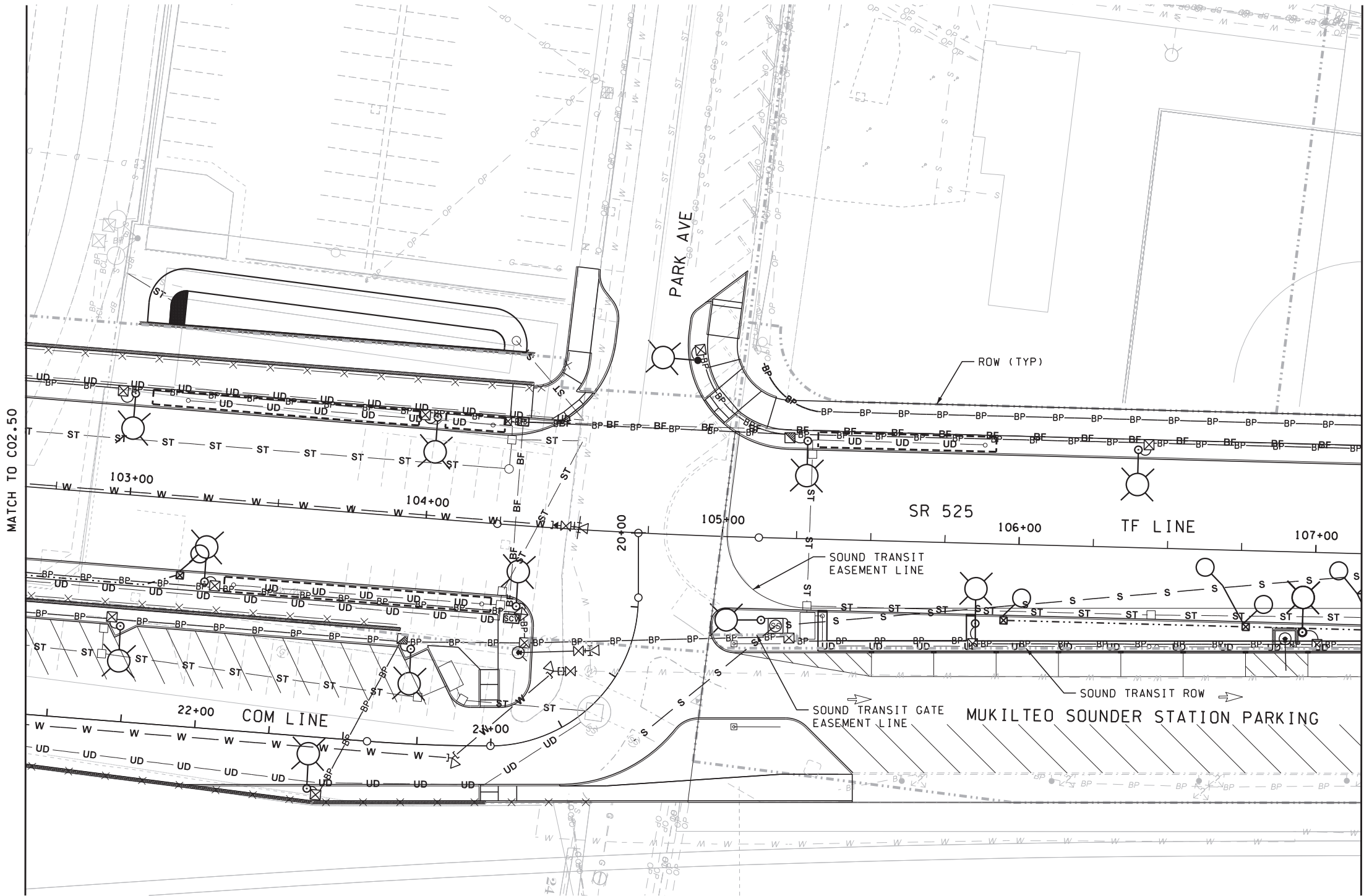
JACOBS



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

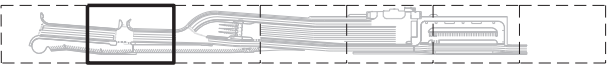
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
COMPOSITE UTILITY PLAN

C02.50
SHEET
68
OF
1521
SHEETS

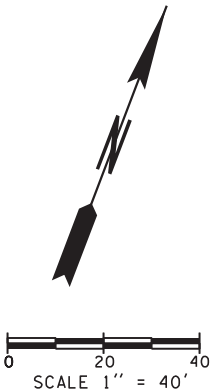


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FOR REFERENCE ONLY



KEY PLAN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c02_51.dwg						
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SUBMITTAL DATE: 12/22/17	CONTRACT NO.				WA-2017-007-00	
DESIGNED BY: D. PERRY	3/5/2018				REGION NO. STATE	
ENTERED BY: D. PERRY	3/5/2018				10 WASH	
CHECKED BY: R. LUDWIG	3/5/2018				JOB NUMBER	
MAR PROJ ENGR: C. TORRES					18W121	
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.	
ASST SECRETARY: A. SCARTON					00*****	
REVISION		DATE	BY			

/ /2017

JACOBS

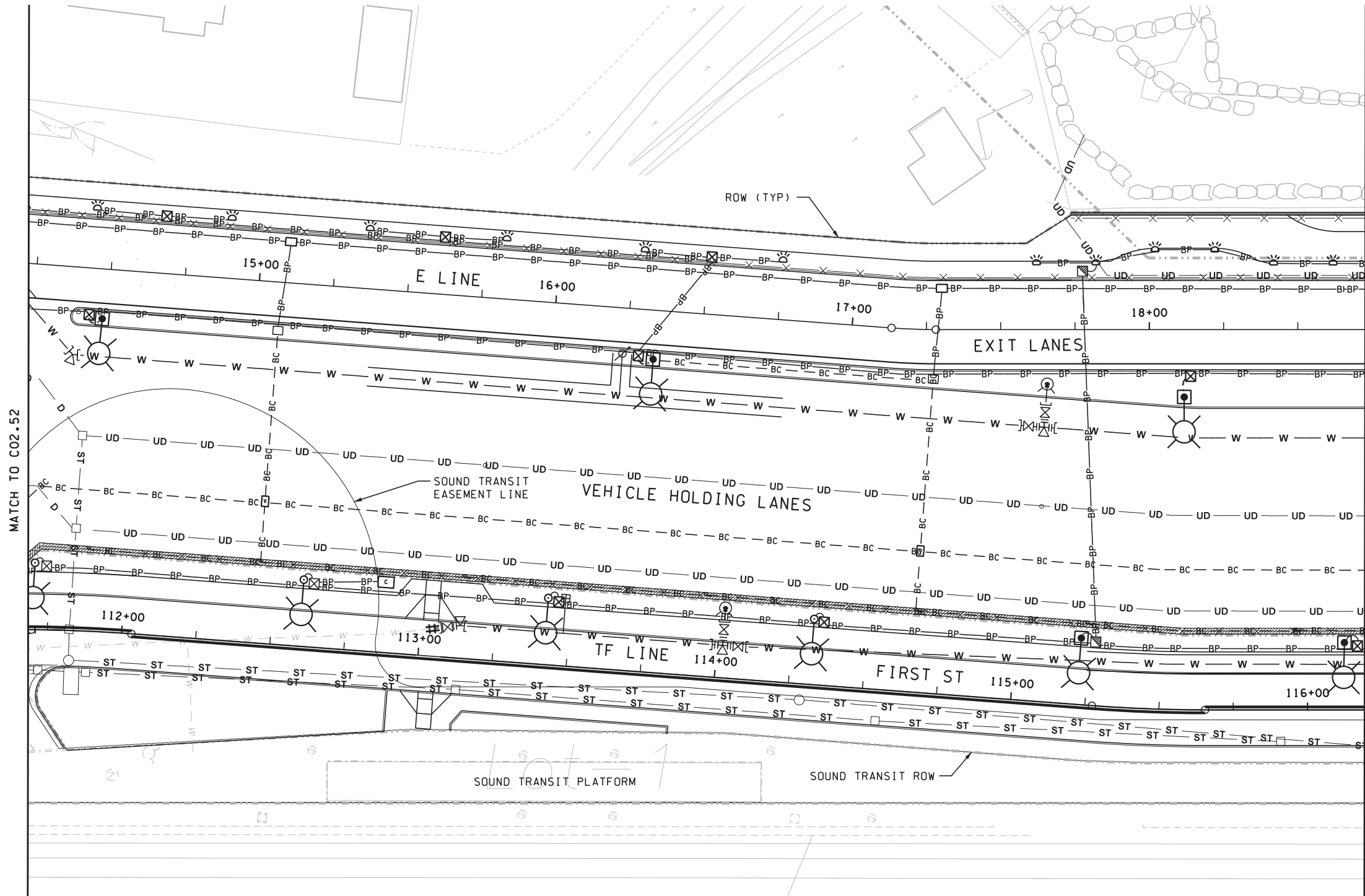
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

COMPOSITE UTILITY PLAN

C02.51

SHEET
69
OF
1521
SHEETS

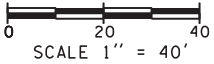


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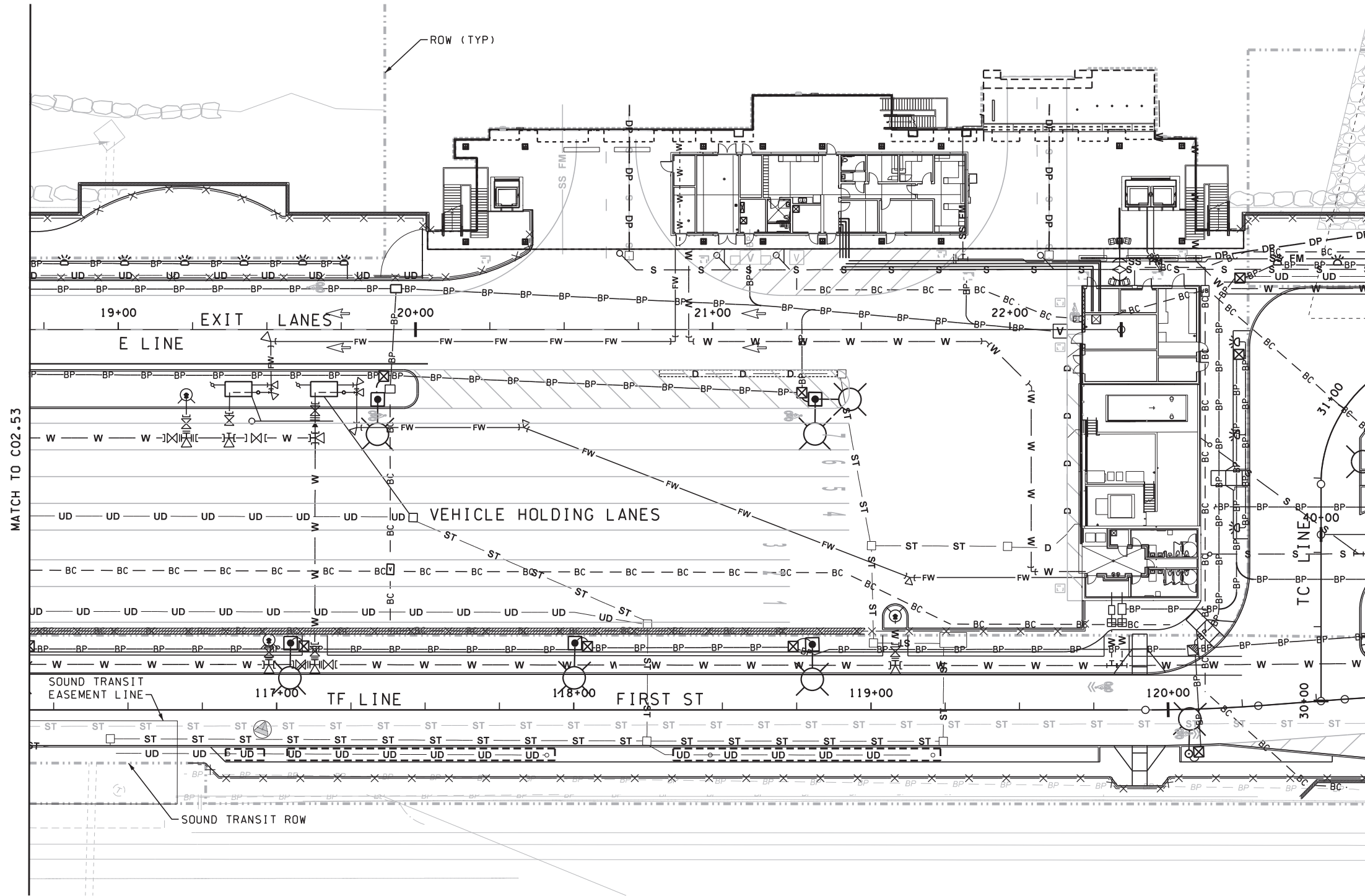
FOR REFERENCE ONLY



KEY PLAN

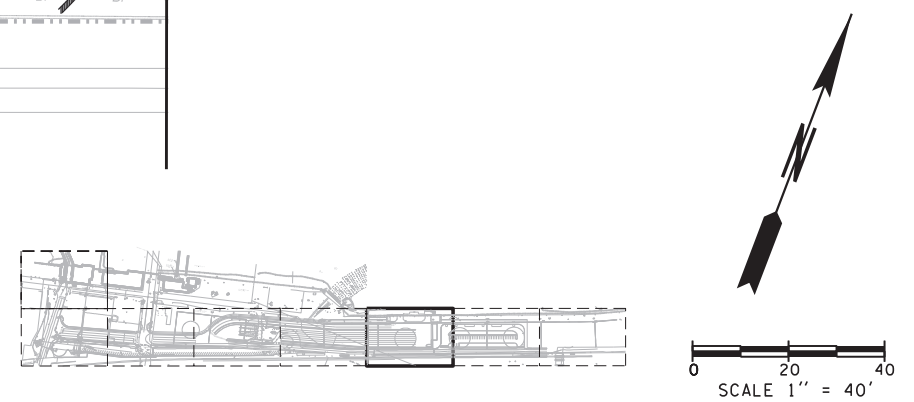



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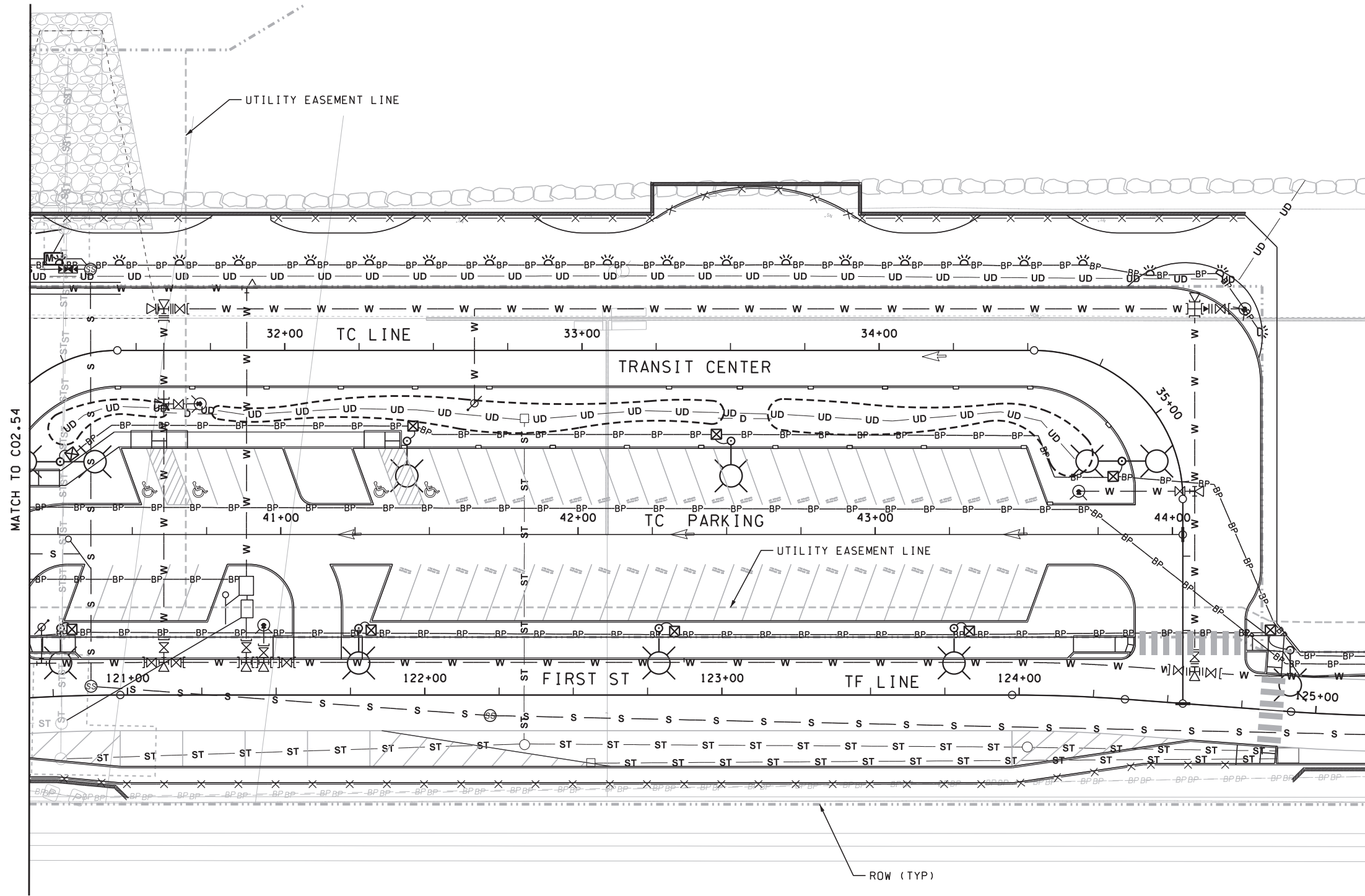


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 10. FOR ELEVATOR HYDRAULIC UTILITIES INFORMATION SEE TERMINAL BUILDING SPECIFICATION SECTION 14.24.00, HYDRAULIC ELEVATORS, FOR BURIED ELEVATOR SERVICE UTILITIES GOING FROM THE MAINTENANCE BUILDING ROOM 122, ELEVATOR EQUIPMENT 2, TO THE TERMINAL BUILDING ELEVATOR 2 AND 3 PIT. COORDINATE REQUIREMENTS WITH ELEVATOR SUPPLIER.

FOR REFERENCE ONLY

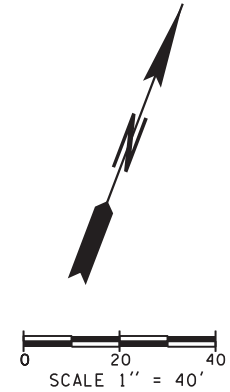


FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c02_54.dlv										 Washington State Department of Transportation WASHINGTON STATE FERRIES		SR 525		C02.54
PRINTED: 8:53:33 AM 3/5/2018		LAST PRINTED BY:		FED.AID PROJ.NO.		MUKILTEO FERRY TERMINAL (PHASE 2)								
SUBMITTAL DATE: 12/22/17		conradcs		WA-2017-007-00		FERRY TERMINAL CONSTRUCTION		SHEET						
DESIGNED BY: D. PERRY		3/5/2018		REGION NO. STATE				72						
ENTERED BY: D. PERRY		3/5/2018		10 WASH				OF						
CHECKED BY: R. LUDWIG		3/5/2018		JOB NUMBER 18W121				1521						
MAR PROJ ENGR: C. TORRES				CONTRACT NO. 00****				SHEETS						
DIR TERM ENGR: N. MCINTOSH														
ASST SECRETARY: A. SCARTON		REVISION		DATE		BY								



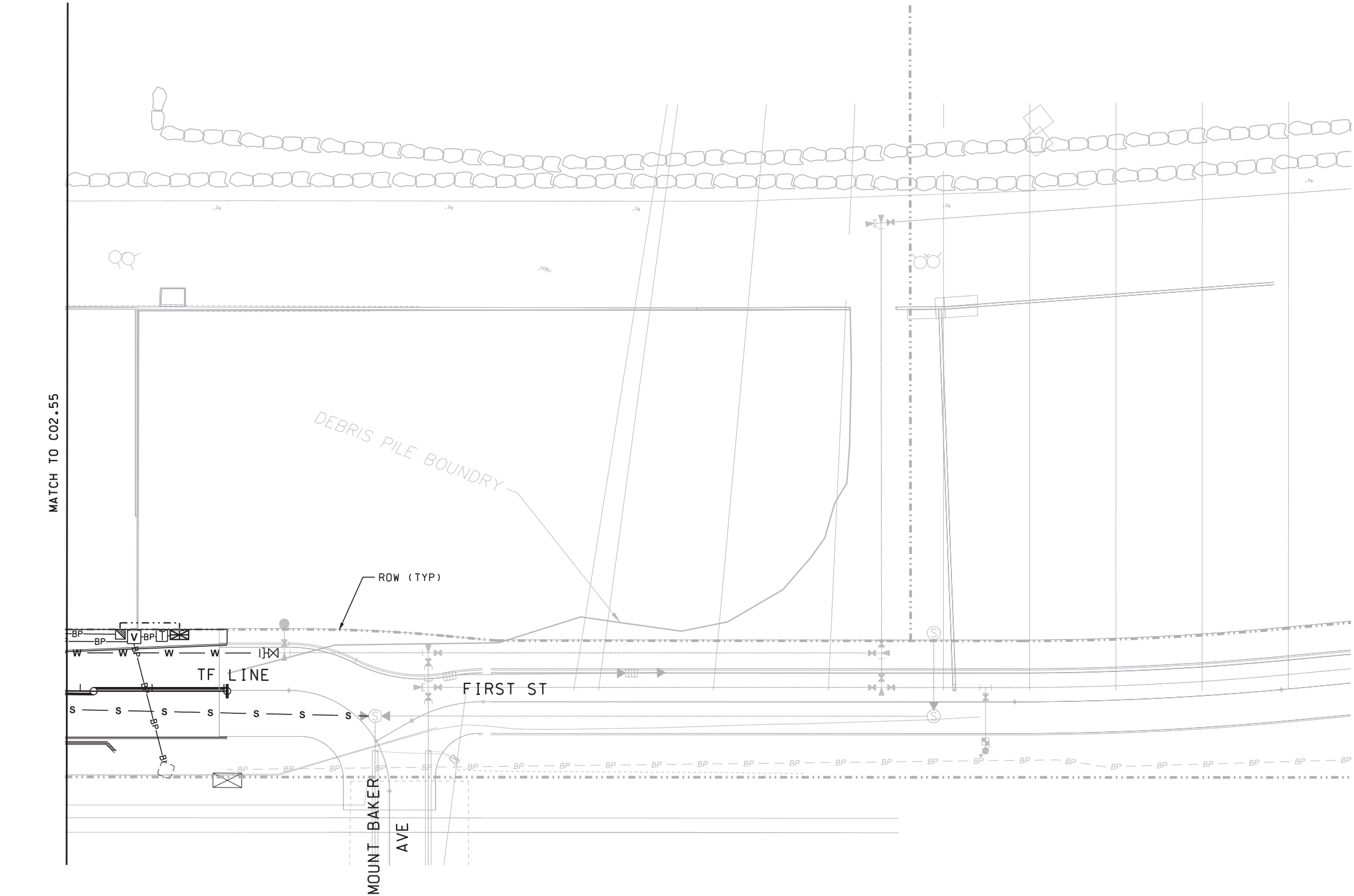
- NOTES:**
1. THIS SHEET IS FOR INFORMATION ONLY.
 2. THIS PLAN IS A REPRESENTATION OF ALL THE PROPOSED UNDERGROUND UTILITIES FOR THE PROJECT AND IS FOR CONTRACTOR CONVENIENCE.
 3. FOR DRAINAGE PLANS SEE C07.00 SERIES SHEETS.
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 6. FOR ILLUMINATION PLANS SEE ES08.00 SERIES SHEETS.
 7. FOR SITE COMMUNICATION PLANS SEE ES12.00 SERIES SHEETS.
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FOR REFERENCE ONLY




FILE NAME: WSW\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c02.55.dwg										JACOBS										SR 525										C02.55																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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FOR REFERENCE ONLY

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c02_56.dwg										JACOBS				SR 525		C02.56	
PRINTED: 8:55:26 AM 3/5/2018		LAST PRINTED BY:						FED.AID PROJ.NO.									
SUBMITTAL DATE: 12/22/17		contracts								WA-2017-007-00		SHEET					
DESIGNED BY: D. PERRY		3/5/2018								REGION NO. STATE		74					
ENTERED BY: D. PERRY		3/5/2018								10 WASH		OF					
CHECKED BY: R. LUDWIG		3/5/2018								JOB NUMBER		1521					
MAR PROJ ENGR: C. TORRES										18W121		SHEETS					
DIR TERM ENGR: N. MCINTOSH										CONTRACT NO.							
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY		00*****							
										/ /2017							
										Washington State Department of Transportation WASHINGTON STATE FERRIES		FERRY TERMINAL CONSTRUCTION		COMPOSITE UTILITY PLAN			

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED. THE REMOVAL OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UPON APPROVED COMPLETION OF THE PROJECT.
2. THE BOUNDARIES OF THE LIMITS OF SITE PREPARATION SHOWN ON THESE PLANS SHALL BE CLEARLY DEMARCATED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FENCED CLEARING LIMITS SHALL BE PERMITTED. THE FENCING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
3. THE TESC 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 DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS OR VIOLATE APPLICABLE WATER STANDARDS.
4. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS DURING THE WET SEASON. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.
5. THE TESC FACILITIES SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AND WITHIN 24 HOURS OF A RUNOFF EVENT IN WHICH STORMWATER DISCHARGES FROM THE SITE, AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE BMP FACILITIES DURING THE WET SEASON (OCT 1 TO APR 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT 30).
6. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH APPROVED BMP METHODS (E.G. SEEDING, MULCHING, PLASTIC COVERING, ETC.).
7. THE INSPECTION OF ESC FACILITIES ON INACTIVE SITES THAT HAVE BEEN PREVIOUSLY STABILIZED MAY BE REDUCED TO ONCE PER MONTH.
8. ANY AREA NEEDING BMP MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN TEN (10) DAYS.
9. AT NO TIME SHALL MORE THAN SIX (6) INCHES OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
10. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
11. CONTRACTOR SHALL MAINTAIN BMP 150; MATERIALS ON HAND PER CHAPTER 4, VOLUME 11 OF THE 2012 WSDOE SMMWW IN AN EASILY ACCESSIBLE AREA THROUGHOUT CONSTRUCTION.
12. STORMWATER SAMPLING LOCATIONS SHALL BE FIELD LOCATED BY CERTIFIED EROSION AND SEDIMENT CONTROL LEAD.
13. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT 1), ALL DISTURBED AREAS SHALL BE SEEDED AND/OR COVERED IN PREPARATION FOR THE WINTER RAINS.
14. LIMITS OF PERMEABLE PAVEMENT AND INFILTRATION FACILITIES AS SHOWN ON THE STORM DRAINAGE AND PAVEMENT PLANS SHALL BE CLEARLY DELINEATED IN THE FIELD. ANY CONSTRUCTION ACTIVITIES THAT INTRODUCE SEDIMENT OR MAY CAUSE ADDITIONAL COMPACTION OF NATIVE SOILS SUCH AS HEAVY EQUIPMENT TRAVEL, HAUL ROUTES, MATERIAL STOCKPILES, EQUIPMENT WASHING ACTIVITIES, ETC. SHALL BE PROHIBITED WITHIN THESE LIMITS.

STABILIZED CONSTRUCTION ENTRANCE

1. THE TEMPORARY CONSTRUCTION ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIALS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS IN THE PLAN. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER’S SPECIFICATIONS.
2. IF CONDITIONS ON THE SITE ARE SUCH THAT MOST OF THE MUD IS NOT REMOVED FROM VEHICLE TIRES BY CONTACT WITH THE GRAVEL, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER ONTO A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHINGS MORE CONVENIENT AND EFFECTIVE.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2” STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

MAINTENANCE OF SILTATION BARRIERS

1. SILTATION BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED WATTLES, END RUNS AND UNDERCUTTING BENEATH WATTLES. NECESSARY REPAIRS TO BARRIERS SHALL BE ACCOMPLISHED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THE SEDIMENT LEVEL REACHES APPROXIMATELY ONE-HALF THE SILTATION BARRIER HEIGHT. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILTATION BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



CONSTRUCTION SEQUENCING FOR TESC

1. PRE-CONSTRUCTION MEETING.
2. FLAG OR FENCE FILL LIMITS.
3. POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR.
4. INSTALL CATCH BASIN INLET PROTECTION.
5. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
6. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
7. CONSTRUCT SEDIMENT PONDS AND TRAPS.
8. GRADE AND STABILIZE CONSTRUCTION ROADS.
9. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTION DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
10. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE CITY OF MUKLITEO AND THE DEPARTMENT OF ECOLOGY STANDARDS, IN ADDITION TO THE MANUFACTURER’S RECOMMENDATIONS.
11. RELOCATE SURFACE WATER CONTROLS AND EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS IN ACCORDANCE WITH THE CITY OF MUKLITEO AND THE DEPARTMENT OF ECOLOGY EROSION CONTROL STANDARDS.
12. COVER ALL AREAS WITH TESC MEASURES THAT WILL REMAIN UNWORKED FOR MORE THAN SEVEN (7) DAYS DURING THE DRY SEASON OR TWO (2) DAYS DURING THE WET SEASON, IN ACCORDANCE WITH THE SPECIFICATIONS.
13. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN (7) DAYS.
14. SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN THIRTY (30) DAYS.
15. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS SHALL BE STABILIZED AND BMP’S REMOVED IF APPROPRIATE AND IN ACCORDANCE WITH THE CITY OF MUKLITEO AND THE DEPARTMENT OF ECOLOGY EROSION CONTROL STANDARDS.

HYDROSEEDING



1. CONSTRUCTION ACCEPTANCE WILL BE SUBJECT TO A WELL ESTABLISHED GROUND COVER THAT FULFILLS THE REQUIREMENTS OF THE APPROVED CONSTRUCTION PLANS AND CITY OF MUKLITEO STANDARDS.
2. ALL AREAS TO BE SEEDED SHALL BE CULTIVATED TO THE SATISFACTION OF THE ENGINEER.
3. ALL HYDROSEEDING FIRMS SHALL HAVE A PRINTOUT OF THE APPLICATION RATE FOR EACH JOB READILY AVAILABLE FOR INSPECTION BY THE CITY INSPECTOR.
4. THE ENGINEER SHALL BE NOTIFIED OF POTENTIAL HYDROSEEDING PRIOR TO THE COMMENCEMENT OF SAID WORK, TO ENSURE COMPLIANCE WITH THESE SPECIFICATIONS.



FILE NAME: WSF\Mukilteo\CADD\WORKING\CM-DESIGN\14w121_c03_01.dwg							 Washington State Department of Transportation WASHINGTON STATE FERRIES	SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION		C03.01	
PRINTED: 3:57:52 PM 9/21/2018		LAST PRINTED BY:								SHEET	
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ENTERED BY: C. BENNETT		12/22/2017								1521	
CHECKED BY: C. MIRKIN		12/22/2017								SHEETS	
MAR PROJ ENGR: C. TORRES											
DIR TERM ENGR: N. MCINTOSH											
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY			

TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLAN REQUIREMENTS	APPLICABLE BEST MANAGEMENT PRACTICES (BMP'S) - AS REQUIRED
ELEMENT #1: DELINEATE CLEARING AND GRADING LIMITS	PRESERVE NATURAL VEGETATION; BUFFER ZONES; HIGH VISIBILITY FENCE; STAKE AND WIRE FENCE
ELEMENT #2: ESTABLISH CONSTRUCTION ACCESS	STABILIZED CONSTRUCTION ENTRANCE; WHEEL WASH; CONSTRUCTION ROAD/PARKING AREA STABILIZATION
ELEMENT #3: CONTROL FLOW RATES	SEDIMENT TRAP; CHECK DAMS; INTERCEPTOR DIKE & SWALE
ELEMENT #4: INSTALL SEDIMENT CONTROLS	GRAVEL FILTER BERM; COMPOST BERM; SILT FENCE; VEGETATED STRIP; COMPOST WATTLES; SEDIMENT TRAP
ELEMENT #5: STABILIZE SOILS	TEMPORARY & PERMANENT SEEDING; STRAW AND WOOD CHIP MULCHING; EROSION CONTROL BLANKETS; MATTING AND NETS
ELEMENT #6: PROTECT SLOPES	TEMPORARY & PERMANENT SEEDING; PRESERVE VEGETATION; PHASED GRADING; SURFACE ROUGHENING; EROSION CONTROL BLANKETS; MATTING & NETS; PLASTIC COVERING; INTERCEPTOR DIKE & SWALE; GRASS LINED CHANNELS; SUBSURFACE DRAINS; CHECK DAMS; TRIANGULAR SILT DIKE
ELEMENT #7: PROTECT DRAIN INLETS	STORM DRAIN INLET PROTECTION; INTERCEPTOR DIKE & SWALE
ELEMENT #8: STABILIZE CHANNELS AND OUTLETS	CHANNEL LINING; OUTLET PROTECTION; EROSION CONTROL BLANKETS; MATTING & NETS; SODDING AND/OR PERMANENT SEEDING
ELEMENT #9: CONTROL POLLUTANTS	CONCRETE HANDLING; SAWCUTTING AND SURFACE POLLUTION PREVENTION; FUGITIVE DUST CONTROL
ELEMENT #10: CONTROL DEWATERING	SEDIMENT TRAP; SEDIMENT BAG; SANITARY SEWER DISCHARGE W/ MWWO APPROVAL; TRANSPORT OFF SITE; VEGETATED FILTER STRIP; INFILTRATION; CONTROLLED DISCHARGE
ELEMENT #11: MAINTAIN BMP'S	INSPECT, REPAIR AND MAINTAIN AS NEEDED TO KEEP IN GOOD WORKING ORDER THROUGHOUT CONSTRUCTION. REPLACE AS NEEDED OR AS DIRECTED BY THE ENGINEER. MAINTENANCE RECORDS SHALL BE KEPT BY THE CONTRACTOR PER PROJECT SPECIFICATIONS
ELEMENT #12: MANAGE THE PROJECT	PHASE CONSTRUCTION; SEASONAL WORK LIMITATIONS; COORDINATION WITH UTILITIES AND OTHER CONTRACTORS; INSPECTION AND MONITORING
ELEMENT #13: PROTECT LOW IMPACT DEVELOPMENT BMP'S	SILT FENCE; VEGETATED STRIP; COMPOST WATTLES; PHASED GRADING; EROSION CONTROL BLANKETS, MATTING & NETS



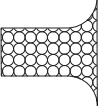











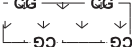


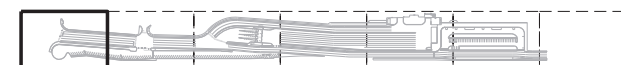
FILE NAME: WSF\Mukilteo\CADD\WORKING\CM-DESIGN\14W121_c03_02.dwg							 Washington State Department of Transportation WASHINGTON STATE FERRIES	SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	TESC NOTES	C03.02 SHEET 76 OF 1521 SHEETS
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DIR TERM ENGR: N. MCINTOSH										
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	FED.AID PROJ.NO. *- WA - *** REGION NO. STATE 10 WASH JOB NUMBER 18W121 CONTRACT NO. 00*****					

NOTES:

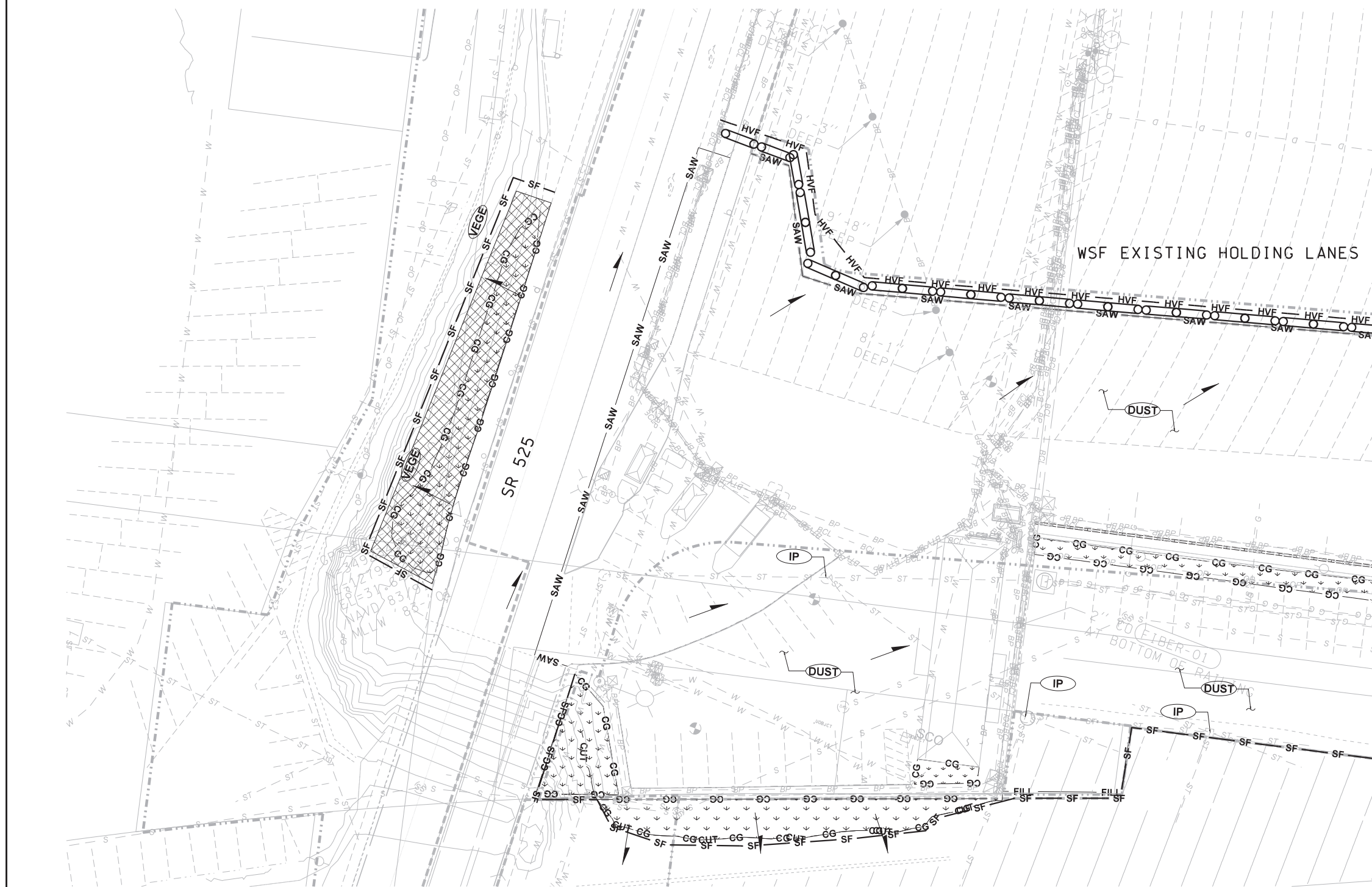
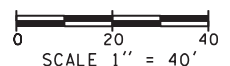
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5. TEMPORARY SEDIMENT POND SHOWN ON SHEET C03.11 WILL UTILIZE AN EXISTING SWALE. ALL OTHER TEMPORARY SEDIMENT PONDS SHALL BE PLACED WITHIN THE PROPOSED FILL AREAS WITH THE SURROUNDING AREA GRADED TOWARD POND. AT NO TIME SHALL THE EXISTING GROUND BE DISTURBED FOR SEDIMENT POND CONSTRUCTION.
6. SEE PLANTING PLANS FOR AREAS OF PERMANENT SOIL STABILIZATION AND SPECIFIC SURFACE TREATMENTS.
7. CONTRACTOR TO PROVIDE EROSION CONTROL DETAILS ALONG SOUND TRANSIT PLATFORM.

TESC LEGEND

-  BMP C101: PRESERVING NATURAL VEGETATION
-  BMP C103: HIGH VISIBILITY FENCE PER STD PLAN I-10.10-01
-  BMP C105: STABILIZED CONSTRUCTION ENTRANCE/EXIT PER STD PLAN I-80.10-01, MIN. 100' IN LENGTH
-  BMP C123: PLASTIC COVERING
-  BMP C140: DUST CONTROL
-  BMP C220: STORM DRAIN INLET PROTECTION PER STD PLAN I-40.20-00
-  BMP C233: SILT FENCE PER STD PLAN I-30.15-02
-  BMP C235: WATTLES PER STD PLAN I-30.30-01
-  BMP C241: TEMPORARY SEDIMENT TRAP PER STD PLAN I-80.10-01
-  AREA RESERVED FOR BAKER TANK STORAGE TO BE USED FOR DEWATERING AS NECESSARY.
-  SAW CUT LINE
-  EXISTING SLOPE DIRECTION
-  PROPOSED FILL LIMITS
-  PROPOSED CUT LIMITS
-  PROPOSED CLEARING AND GRUBBING LIMITS



KEY PLAN



MATCH TO C03.11

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DIR TERM ENGR: N. MCINTOSH	
ASST SECRETARY: A. SCARTON	

REVISION

DATE

BY

FED.AID PROJ.NO.
*-WA-***
REGION NO. STATE
10 WASH
JOB NUMBER
18W121
CONTRACT NO.
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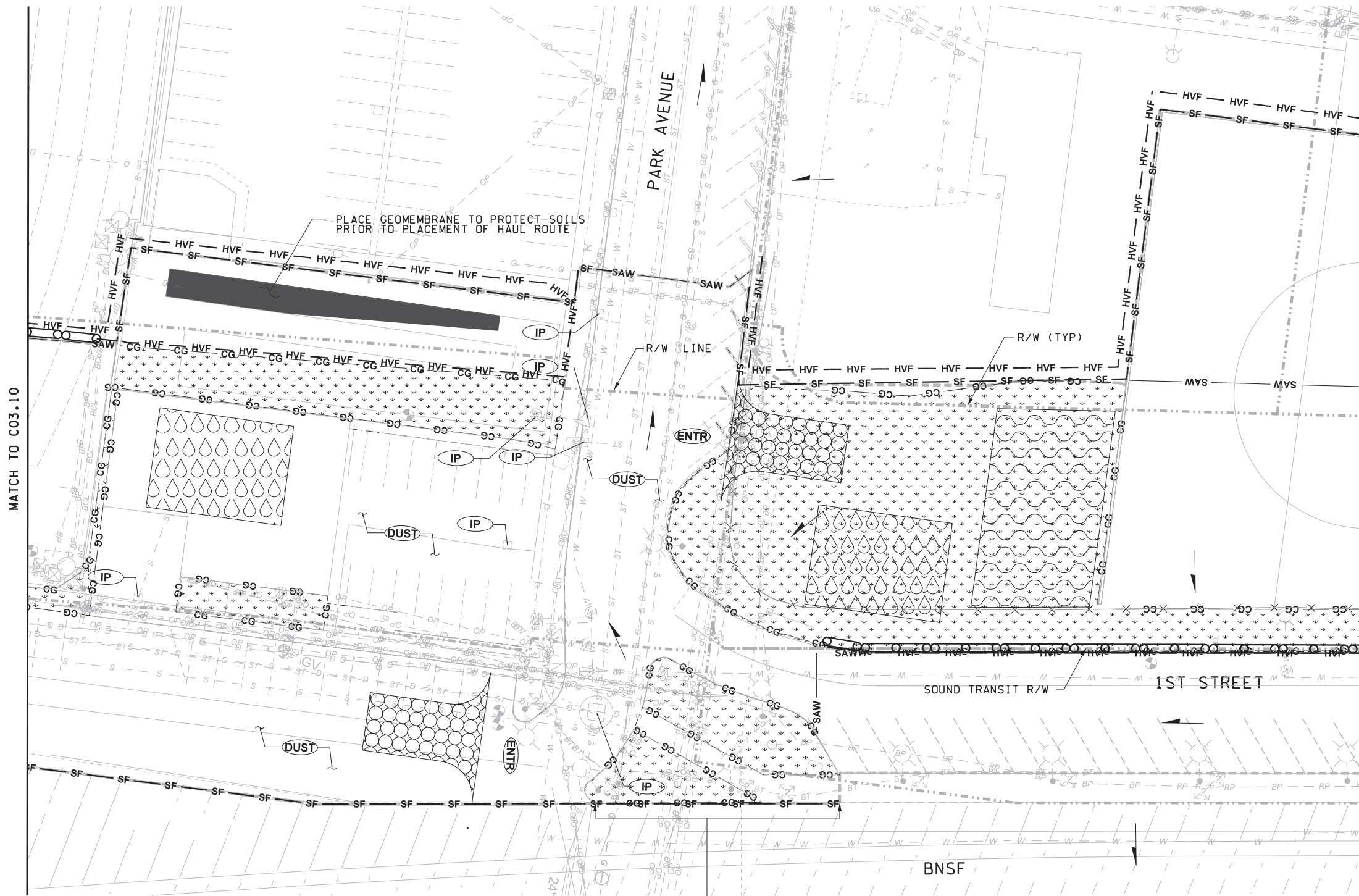


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

TESC PLAN

C03.10

SHEET
77
OF
1521
SHEETS



MATCH TO C03.10

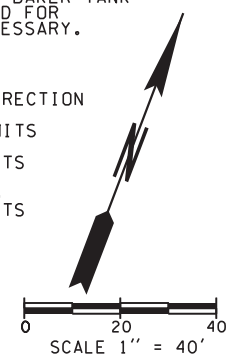
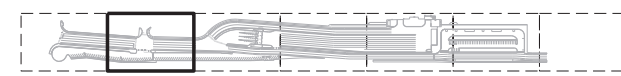
MATCH TO C03.12

NOTES:

1. INLET PROTECTION SHALL BE IMMEDIATELY INSTALLED AT ALL NEWLY CONSTRUCTED DRAINAGE COLLECTING STRUCTURES.
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5. TEMPORARY SEDIMENT POND SHOWN ON SHEET C03.11 WILL UTILIZE AN EXISTING SWALE. ALL OTHER TEMPORARY SEDIMENT PONDS SHALL BE PLACED WITHIN THE PROPOSED FILL AREAS WITH THE SURROUNDING AREA GRADED TOWARD POND. AT NO TIME SHALL THE EXISTING GROUND BE DISTURBED FOR SEDIMENT POND CONSTRUCTION.
6. SEE PLANTING PLANS FOR AREAS OF PERMANENT SOIL STABILIZATION AND SPECIFIC SURFACE TREATMENTS.
7. CONTRACTOR TO PROVIDE EROSION CONTROL DETAILS ALONG SOUND TRANSIT PLATFORM.

TESC LEGEND

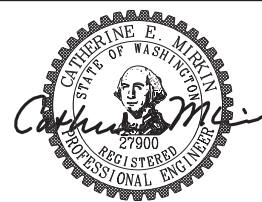
- VEGE** BMP C101: PRESERVING NATURAL VEGETATION
- HVF** BMP C103: HIGH VISIBILITY FENCE PER STD PLAN I-10.10-01
- ENTR** BMP C105: STABILIZED CONSTRUCTION ENTRANCE/EXIT PER STD PLAN I-80.10-01, MIN. 100' IN LENGTH
- DUST** BMP C140: DUST CONTROL
- IP** BMP C220: STORM DRAIN INLET PROTECTION PER STD PLAN I-40.20-00
- SF** BMP C233: SILT FENCE PER STD PLAN I-30.15-02
- WAT** BMP C235: WATTLES PER STD PLAN I-30.30-01
- ST** BMP C241: TEMPORARY SEDIMENT TRAP PER STD PLAN I-80.10-01
- BT** AREA RESERVED FOR BAKER TANK STORAGE TO BE USED FOR DEWATERING AS NECESSARY.
- SAW** SAW CUT LINE
- SLOPE** EXISTING SLOPE DIRECTION
- FILL** PROPOSED FILL LIMITS
- CUT** PROPOSED CUT LIMITS
- CLR** PROPOSED CLEARING AND GRUBBING LIMITS



CM DESIGN GROUP

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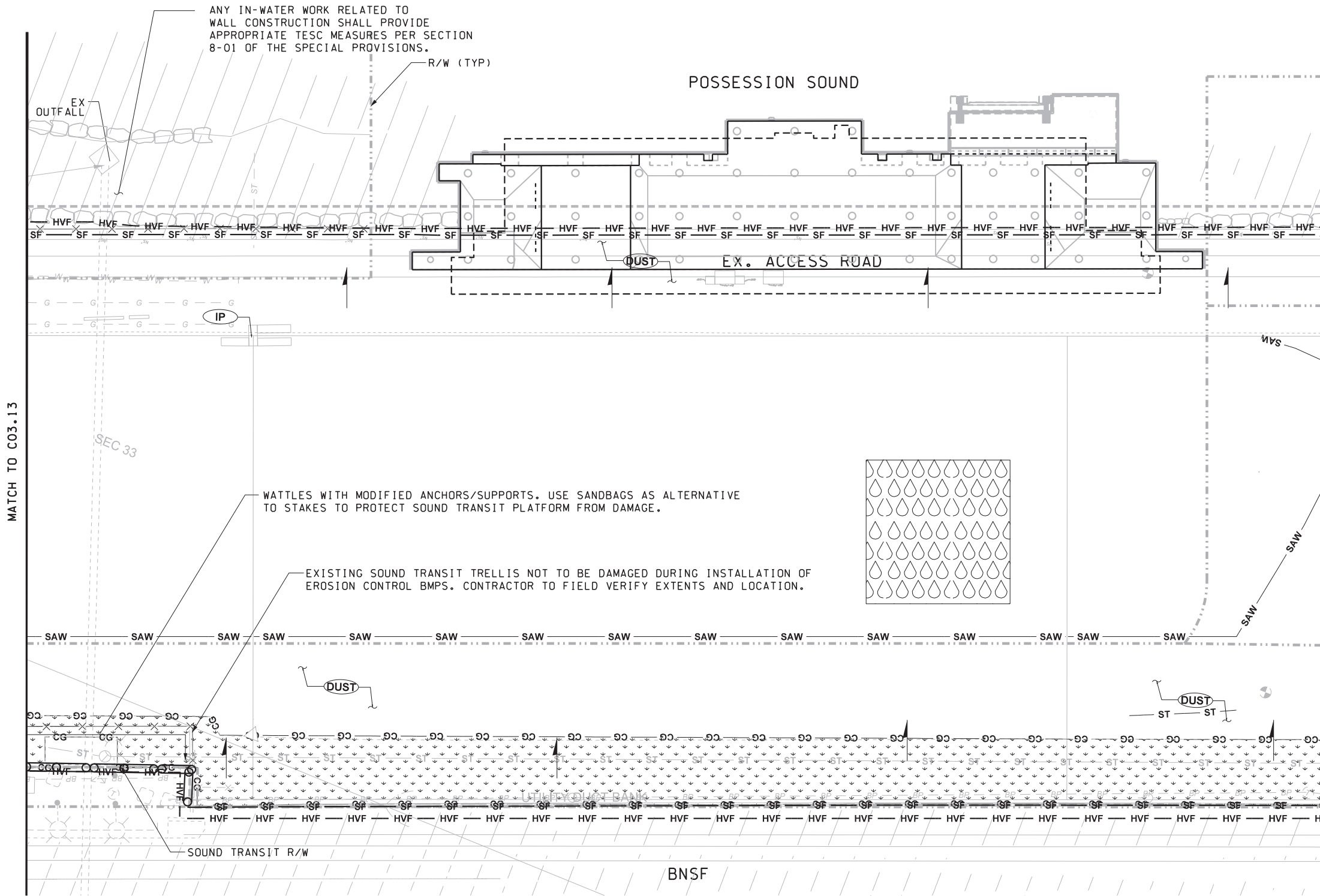
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00*****



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TESC PLAN

C03.11
SHEET
78
OF
1521
SHEETS



MATCH TO C03.13

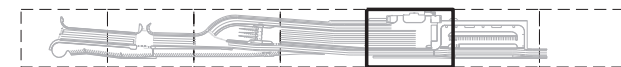
MATCH TO C03.15

NOTES:

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TESC LEGEND

- BMP C101: PRESERVING NATURAL VEGETATION
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- BMP C105: STABILIZED CONSTRUCTION ENTRANCE/EXIT PER STD PLAN I-80.10-01, MIN. 100' IN LENGTH
- BMP C123: PLASTIC COVERING
- BMP C140: DUST CONTROL
- BMP C220: STORM DRAIN INLET PROTECTION PER STD PLAN I-40.20-00
- BMP C233: SILT FENCE PER STD PLAN I-30.15-02
- BMP C235: WATTLES PER STD PLAN I-30.30-01
- BMP C241: TEMPORARY SEDIMENT TRAP PER STD PLAN I-80.10-01
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- SAW CUT LINE
- EXISTING SLOPE DIRECTION
- PROPOSED FILL LIMITS
- PROPOSED CUT LIMITS
- PROPOSED CLEARING AND GRUBBING LIMITS



0 20 40
SCALE 1" = 40'

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MAR PROJ ENGR: C. TORRES					CONTRACT NO.		
DIR TERM ENGR: N. MCINTOSH					00****		
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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TESC PLAN



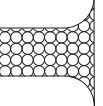












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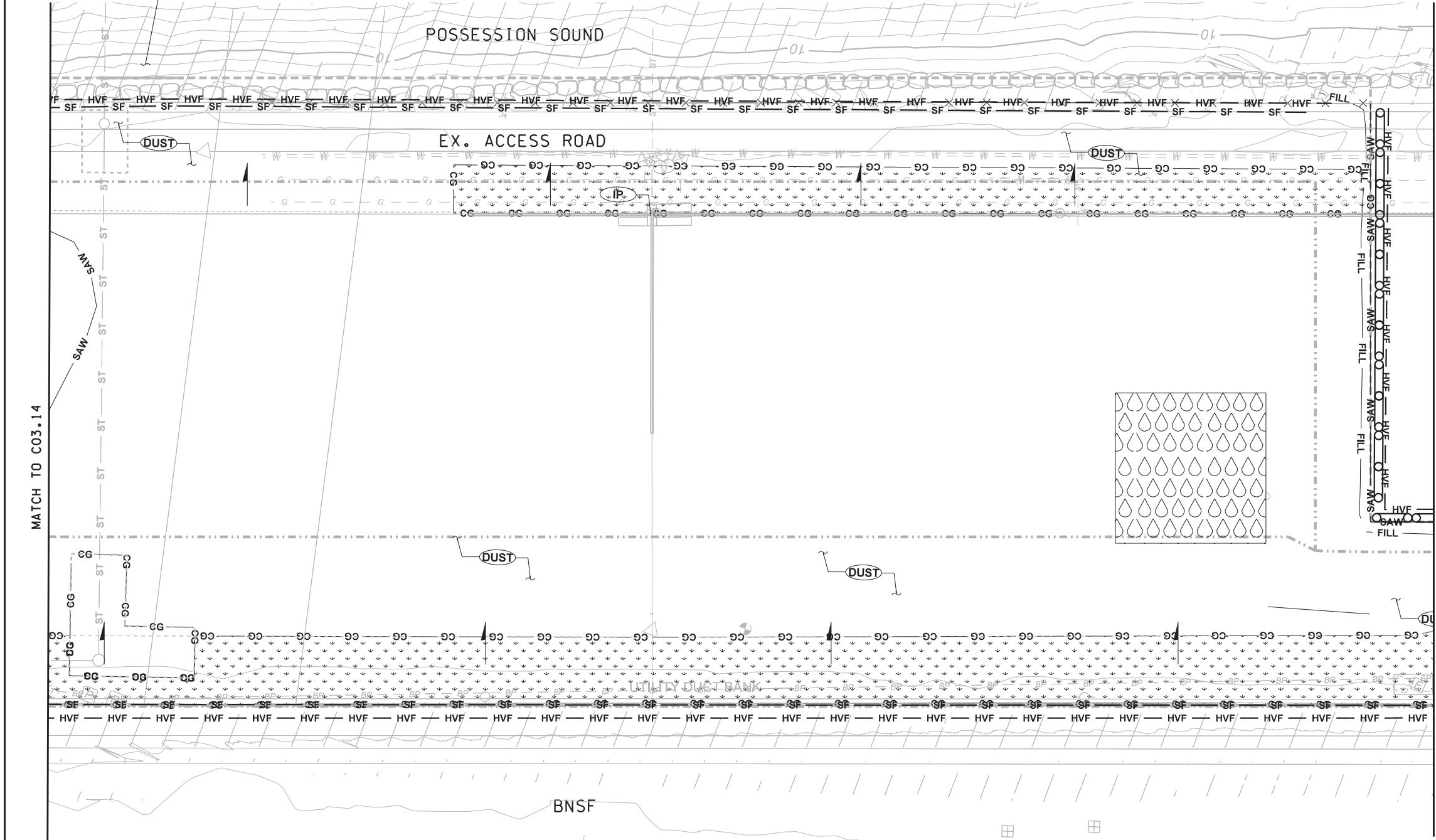
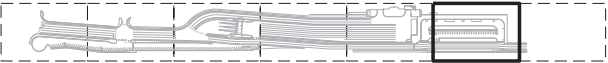
ANY IN-WATER WORK RELATED TO WALL CONSTRUCTION SHALL PROVIDE APPROPRIATE TESC MEASURES PER SECTION 8-01 OF THE SPECIAL PROVISIONS.

NOTES:

1. INLET PROTECTION SHALL BE IMMEDIATELY INSTALLED AT ALL NEWLY CONSTRUCTED DRAINAGE COLLECTING STRUCTURES.
2. CONSTRUCTION ESC BMP NUMBERS CORRESPOND TO THE SOURCE CONTROL BMP'S LISTED IN CHAPTER 4 OF VOLUME II OF THE 2012 WSDOE SMMWW AND SHALL BE INSTALLED, MAINTAINED AND REMOVED IN ACCORDANCE WITH SAID MANUAL.
3. THE ESC MEASURES SHOWN ON THESE PLANS ARE INTENDED TO MEET THE MINIMUM REQUIREMENTS FOR ESC BASED ON ANTICIPATED SITE CONDITIONS DURING THE WET SEASON. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR'S CERTIFIED CESCL TO PREPARE, IMPLEMENT AND UPDATE THE CONSTRUCTION SWPPP TO PROVIDE APPROPRIATE ESC MEASURES BASED UPON CONSTRUCTION SEQUENCING AND SITE CONDITIONS ENCOUNTERED AS WORK PROGRESSES.
4. STRAW WATTLES ARE TO BE INSTALLED IN THE AREAS SHOWN IMMEDIATELY AFTER THE SAWCUTTING AND REMOVAL OF EXISTING PAVEMENT AND/OR CONCRETE.
5. TEMPORARY SEDIMENT POND SHOWN ON SHEET C03.11 WILL UTILIZE AN EXISTING SWALE. ALL OTHER TEMPORARY SEDIMENT PONDS SHALL BE PLACED WITHIN THE PROPOSED FILL AREAS WITH THE SURROUNDING AREA GRADED TOWARD POND. AT NO TIME SHALL THE EXISTING GROUND BE DISTURBED FOR SEDIMENT POND CONSTRUCTION.
6. SEE PLANTING PLANS FOR AREAS OF PERMANENT SOIL STABILIZATION AND SPECIFIC SURFACE TREATMENTS.
7. CONTRACTOR TO PROVIDE EROSION CONTROL DETAILS ALONG SOUND TRANSIT PLATFORM.

TESC LEGEND

-  BMP C101: PRESERVING NATURAL VEGETATION
-  BMP C103: HIGH VISIBILITY FENCE PER STD PLAN I-10.10-01
-  BMP C105: STABILIZED CONSTRUCTION ENTRANCE/EXIT PER STD PLAN I-80.10-01, MIN. 100' IN LENGTH
-  BMP C123: PLASTIC COVERING
-  BMP C140: DUST CONTROL
-  BMP C220: STORM DRAIN INLET PROTECTION PER STD PLAN I-40.20-00
-  BMP C233: SILT FENCE PER STD PLAN I-30.15-02
-  BMP C235: WATTLES PER STD PLAN I-30.30-01
-  BMP C241: TEMPORARY SEDIMENT TRAP PER STD PLAN I-80.10-01
-  AREA RESERVED FOR BAKER TANK STORAGE TO BE USED FOR DEWATERING AS NECESSARY.
-  SAW CUT LINE
-  EXISTING SLOPE DIRECTION
-  PROPOSED FILL LIMITS
-  PROPOSED CUT LIMITS
-  PROPOSED CLEARING AND GRUBBING LIMITS



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MAR PROJ ENGR: C. TORRES			18W121
DIR TERM ENGR: N. MCINTOSH			CONTRACT NO.
ASST SECRETARY: A. SCARTON			00****
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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

TESC PLAN

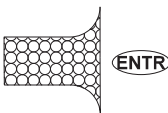



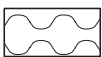

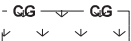

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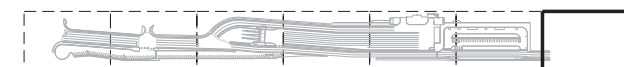


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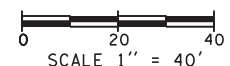
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- TESC LEGEND

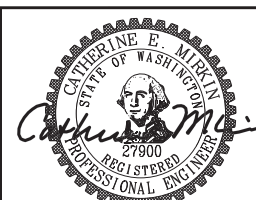
- VEGE**
- BMP C101: PRESERVING NATURAL
VEGETATION
- HVF — HVF -
- BMP C103: HIGH VISIBILITY FENCE
PER STD PLAN I-10.10-01
- 
- BMP C105: STABILIZED CONSTRUCTION
ENTRANCE/EXIT PER STD
PLAN I-80.10-01, MIN.
100' IN LENGTH
- 
- BMP C123: PLASTIC COVERING
- DUST**
- BMP C140: DUST CONTROL
- IP**
- BMP C220: STORM DRAIN INLET PROTECTION
PER STD PLAN I-40.20-00
- SF — SF -
- BMP C233: SILT FENCE PER STD
PLAN I-30.15-02
- 
- BMP C235: WATTLES PER STD PLAN
I-30.30-01
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PER STD PLAN I-80.10-01
- 
- AREA RESERVED FOR BAKER TANK
STORAGE TO BE USED FOR
DEWATERING AS NECESSARY.
- SAW -
- SAW CUT LINE
- 
- EXISTING SLOPE DIRECTION
- FILL -
- PROPOSED FILL LIMITS
- CUT -
- PROPOSED CUT LIMITS
- CG — CG -
- PROPOSED CLEARING
AND GRUBBING LIMITS
- 
- 



KEY PLAN



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DIR TERM ENGR: N. MCINTOSH								18W121	
ASST SECRETARY: A. SCARTON								CONTRACT NO.	
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**Washington State
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WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

TESC PLAN

C03.16

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SAFETY NOTES

1. VEHICLES DELIVERING AND HAULING MATERIALS TO AND FROM THE WORK SITE SHALL USE ONLY THE HAUL ROUTES SHOWN ON THESE HAUL ROUTE PLANS.
2. HAUL ROUTE, LIMITED ACCESS ROUTE, AND MAIN HAUL ROUTE MAY BE USED BY OTHER CONTRACTORS AND THE GENERAL PUBLIC.
3. THE CONTRACTOR SHALL YIELD TO ALL EMERGENCY VEHICLES.
4. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLANS CONTAINING INFORMATION / ITEMS AS SHOWN ON THE HAUL ROUTE DRAWINGS AND AS REQUIRED BY THE MUTCD, WSDOT, CITY OF MUKILTEO, AND THE PORT OF EVERETT.
5. THE CONTRACTOR SHALL KEEP HAUL ROADS FREE OF DEBRIS AT ALL TIMES. ANY DAMAGE ALONG THE CONTRACTOR'S HAUL ROUTES DUE TO THE CONTRACTOR'S USE SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
6. AT THE COMPLETION OF THE PROJECT, ALL PAVEMENTS AND SURFACES ALONG THE HAUL ROUTES THAT WERE EXISTING AT THE START OF THE PROJECT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER.
7. THE CONTRACTOR SHALL COORDINATE AND MEET THE CLEANING AND REPAIR REQUIREMENTS SET BY OTHER PUBLIC AND PRIVATE AGENCIES FOR USE OF THEIR ROADS FOR CONSTRUCTION RELATED WORK.
8. ALL VEHICLES AND EQUIPMENT SHALL BE KEPT WITHIN THE WORK AREAS ESTABLISHED FOR THAT WORK SHIFT UNLESS TRAVELING TO OR FROM THE SITE.
9. PARKING OF CONTRACTOR EMPLOYEE'S PRIVATE VEHICLES IS RESTRICTED TO DESIGNATED CONTRACTOR PARKING AREAS. UNDER NO CIRCUMSTANCES SHALL VEHICLES BE PARKED OR EQUIPMENT BE STORED OUTSIDE OF WORK AREAS AND CONSTRUCTION STAGING SITE.
10. CONSTRUCTION TRAFFIC SHALL YIELD TO LOADING/OFF LOADING FERRY PASSENGERS, SOUNDER TRAIN PATRONS, AND GENERAL PUBLIC.

NOTES:

1. THE CONTRACTOR IS REQUIRED TO OBTAIN HAUL ROUTE ACCEPTANCE FROM THE CITY OF MUKILTEO. THE ACTUAL REQUIREMENTS OF ACCEPTANCE WILL BE BASED ON THE CONTRACTOR'S TRAFFIC CONTROL PLAN THAT SHALL BE DEVELOPED CONSIDERING THE ACTUAL CONSTRUCTION TRAFFIC VOLUME, TYPES OF VEHICLES USED, HAUL ROUTES, AND HOURS OF OPERATION. THE INFORMATION ON THIS SHEET AND THE HAUL ROUTE SHEETS ARE PROVIDED AS A GUIDE FOR THE CONTRACTOR TO USE WHILE PREPARING THE TRAFFIC CONTROL PLAN. HAULING WILL NOT BE PERMITTED DURING THE FOLLOWING SPECIAL EVENTS:
 - A MUKILTEO LIGHTHOUSE FESTIVAL (SEPTEMBER)
 - B RUN-A-MUK (LATE AUGUST)
 - C SHAKESPEARE IN THE PARK (LATE JULY)
 - D WATERFRONT ARTS FESTIVAL (LATE AUGUST)
 - E WEDNESDAY FARMER'S MARKET (WEDNESDAY AT 3:00 PM MAY - SEPT.)
2. CONTRACTOR TO STAGE INBOUND TRUCKS AT THE INBOUND TRUCK HOLDING AREA WHEN INBOUND DELIVERY/HAUL TRUCKS EXCEED 4 VEHICLES PER FERRY SAILING.
3. TRUCK HAULING HOURS:
 - MONDAY THRU THURSDAY 7:00AM TO 2:45PM
 - FRIDAY 7:00AM TO 1:00PM
4. CONTRACTOR SHALL SLIDE THE INBOUND TRUCK HOLDING AREA TO THE SOUTH, AS REQUIRED, TO PROVIDE SUFFICIENT SPACING BETWEEN THE BACKUP IN THE FERRY HOLDING LANE AND THE INBOUND TRUCK HOLDING AREA TO ACCOMMODATE QUEUING FERRY PATRONS IN THE HOLDING LANE.
5. INBOUND TRUCKS SHALL USE THE GENERAL PURPOSE LANE TO ACCESS AND ENTER THE TOLLBOOTH PLAZA.

LEGEND

- HAUL ROUTE
- TRUCK HOLDING AREA
- CONSTRUCTION STAGING & LAYOUT AREA

0 200 400
SCALE 1" = 400'

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3/2/2018

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3/2/2018

CHECKED BY: K. THOMAS

3/2/2018

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

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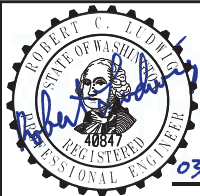
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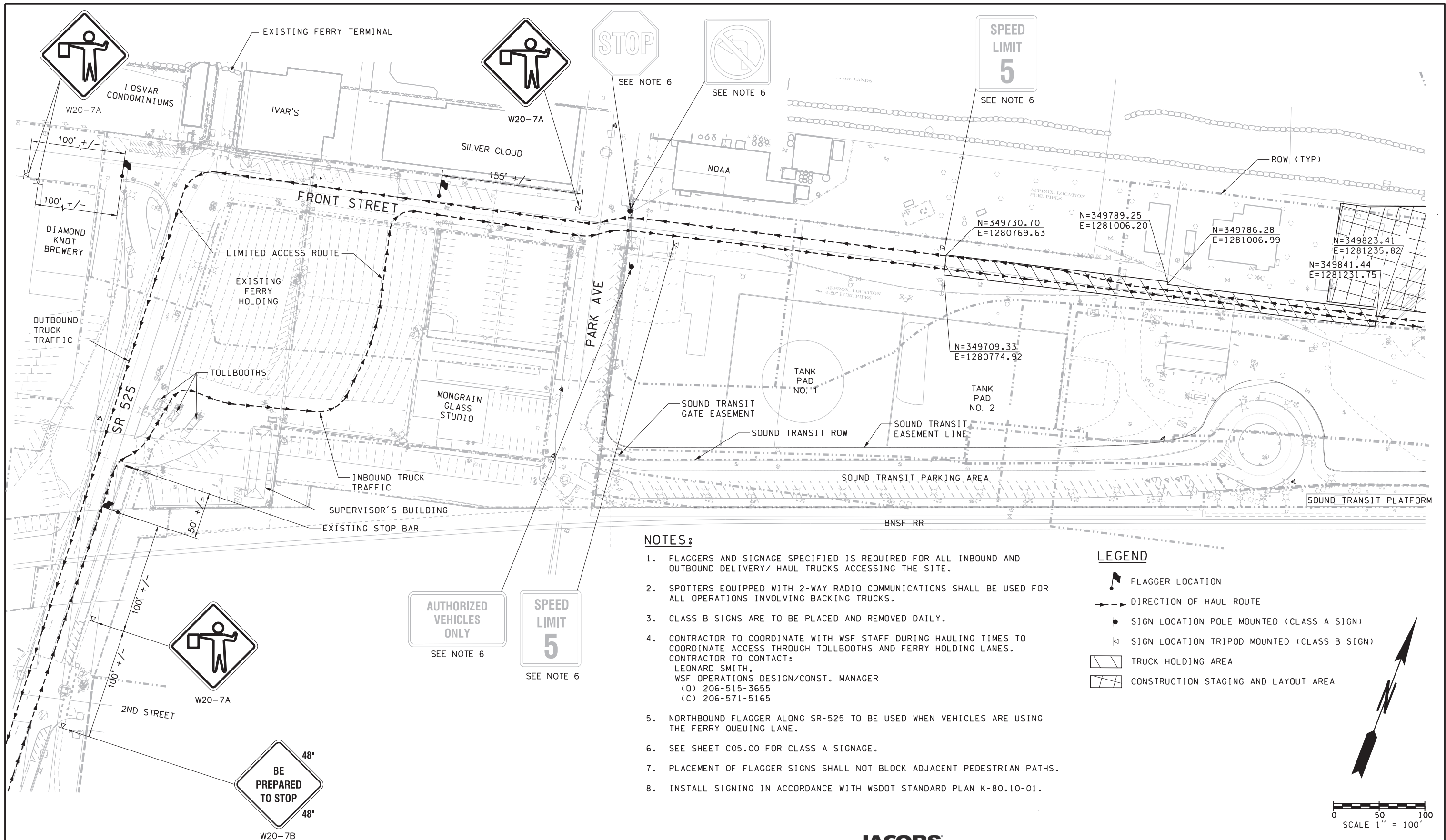


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

HAUL ROUTE

C03.20

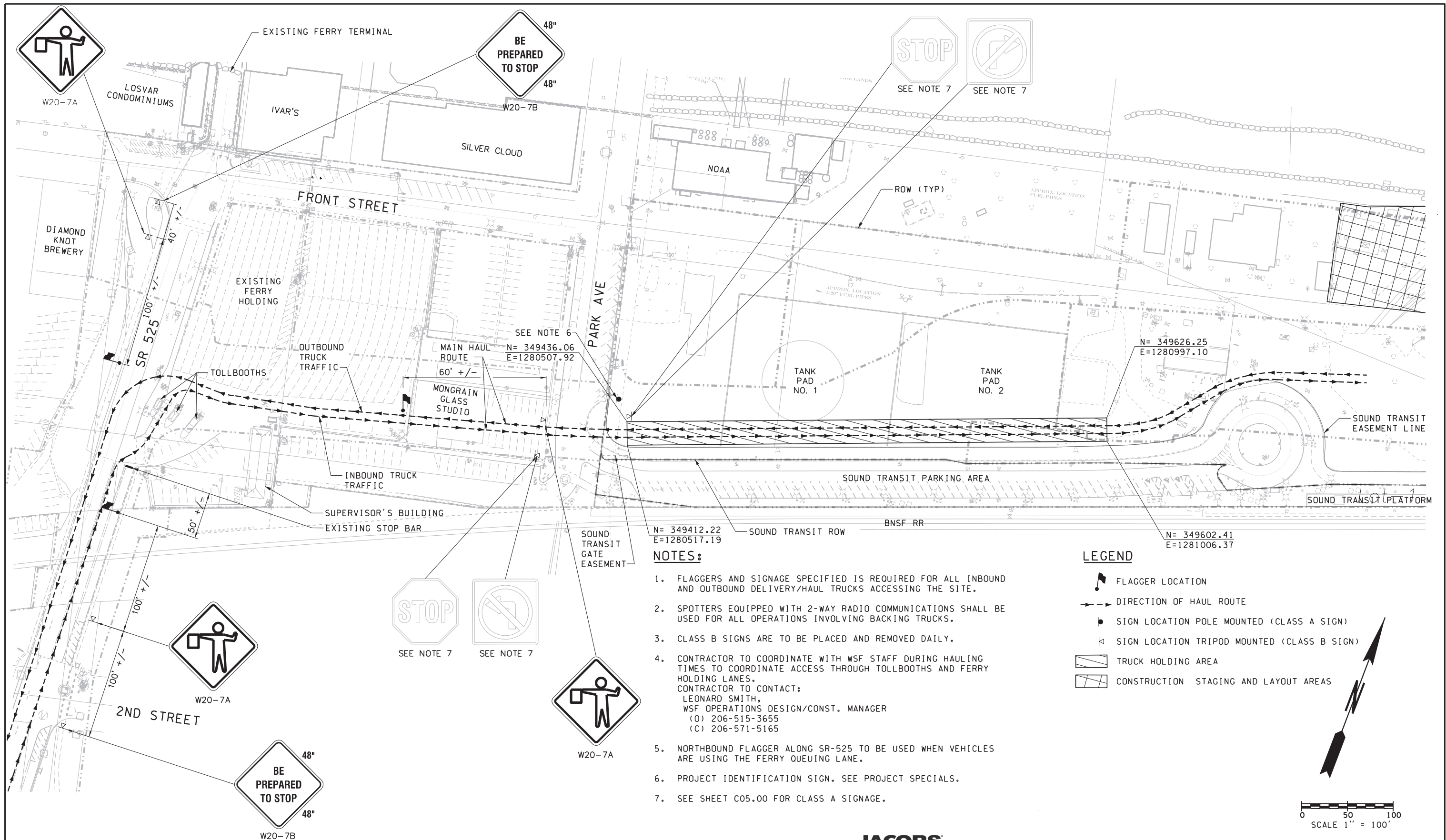
SHEET
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OF
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SHEETS



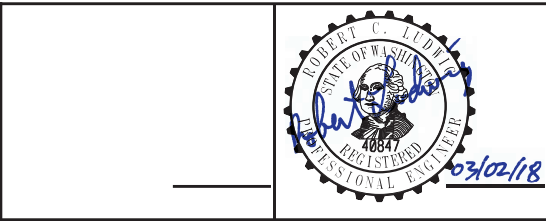
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LIMITED ACCESS ROUTE		SHEET 85 OF 1521 SHEETS



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SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	C03.22
	SHEET 86 OF 1521 SHEETS
MAIN HAUL ROUTE	

SITE PREPARATION

LEGEND

- LIMITS OF SITE PREPARATION
- SAW -

NEATLINE SAWCUT
- ● - - ● -

LIMITS OF PEDESTRIAN RAIL REMOVAL
- - - - -

LIMITS OF BARRIER REMOVAL
- - - - -

LIMITS OF WALL REMOVAL
- FILL -

LIMITS OF FILL
- CUT -

LIMITS OF CUT
- CG - CG -

LIMITS OF VEGETATION REMOVAL,
CLEARING AND GRUBBING
- ↓ ↓ ↓ ↓

LIMITS OF VEGETATION REMOVAL,
CLEARING AND GRUBBING
- ▲ ▲ ▲ ▲

LIMITS OF CONCRETE REMOVAL
- /// ///

LIMITS OF ASPHALT REMOVAL
- LIMITS OF BUILDING DEMOLITION
- XXXX

LIMITS OF STEEL TANK REMOVAL
- - - - -

PROPERTY LINE

UTILITY DEMOLITION

LEGEND

- - - - -

UTILITY TO REMOVE
- - - - -

UTILITY TO ABANDON
- - - - -

UTILITY TO REMAIN
- ///

STRUCTURE TO REMOVE
- ✕

STRUCTURE TO ABANDON
- ✕

STRUCTURE TO REMAIN

SYMBOLS

- - BCL - -

BURIED COMMUNICATIONS
- - BP - -

BURIED POWER
- ⦿

FIRE HYDRANT
- - G - -

GAS
- ✕

J-BOX
- ⦿

LUMINAIRE/LIGHT POLE
- OP -

OVERHEAD POWER
- - - - -

ROW / PROPERTY LINE
- ST -

STORM SEWER
- S -

SANITARY SEWER
- ⦿

SANITARY SEWER MANHOLE
- UTILITY POLE
- UTILITY VAULT
- - W - -

WATER LINE
- ⦿

WATER METER
- ✕

WATER VALVE
- ⦿

WATER VALVE BOX

ABBREVIATIONS

- ACV

AUTOMATIC CONTROL VALVE
- CB

CATCH BASIN
- CDF

CONTROLLED DENSITY FILL
- CI

CAST IRON
- DEMO

DEMOLISH
- EXIST

EXISTING
- FH

FIRE HYDRANT
- FT

FEET
- HDPE

HIGH-DENSITY POLYETHYLENE
- IP

IRON PIPE
- J-BOX

JUNCTION BOX
- MH

MANHOLE
- MWWD

MUKILTEO WATER AND WASTEWATER DISTRICT
- PSE

PUGET SOUND ENERGY
- PVC

POLYVINAL CHLORIDE
- SNOPOUD

SNOHOMISH COUNTY PUBLIC UTILITY DISTRICT
- SPEC

SPECIFICATION
- SR

STATE ROUTE
- ST

STORM SEWER
- SS

SANITARY SEWER
- STD

STANDARD
- TBOS

TRANSMITTER BATTERY OPERATED SOLENOID
- TYP

TYPICAL
- WSF

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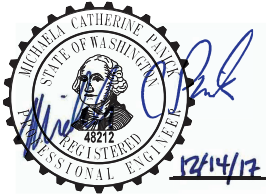


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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
SITE PREP / UTILITY DEMO
LEGENDS AND ABBREVIATIONS

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1521
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SITE PREPARATION PLAN

SHEET
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OF
1521
SHEETS

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WA-2017-007-00	
REGION NO.	STATE
10	WASH
JOB NUMBER 18W121	
CONTRACT NO. 00****	

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REGION NO.	STATE
10	WASH
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CONTRACT NO. 00****	

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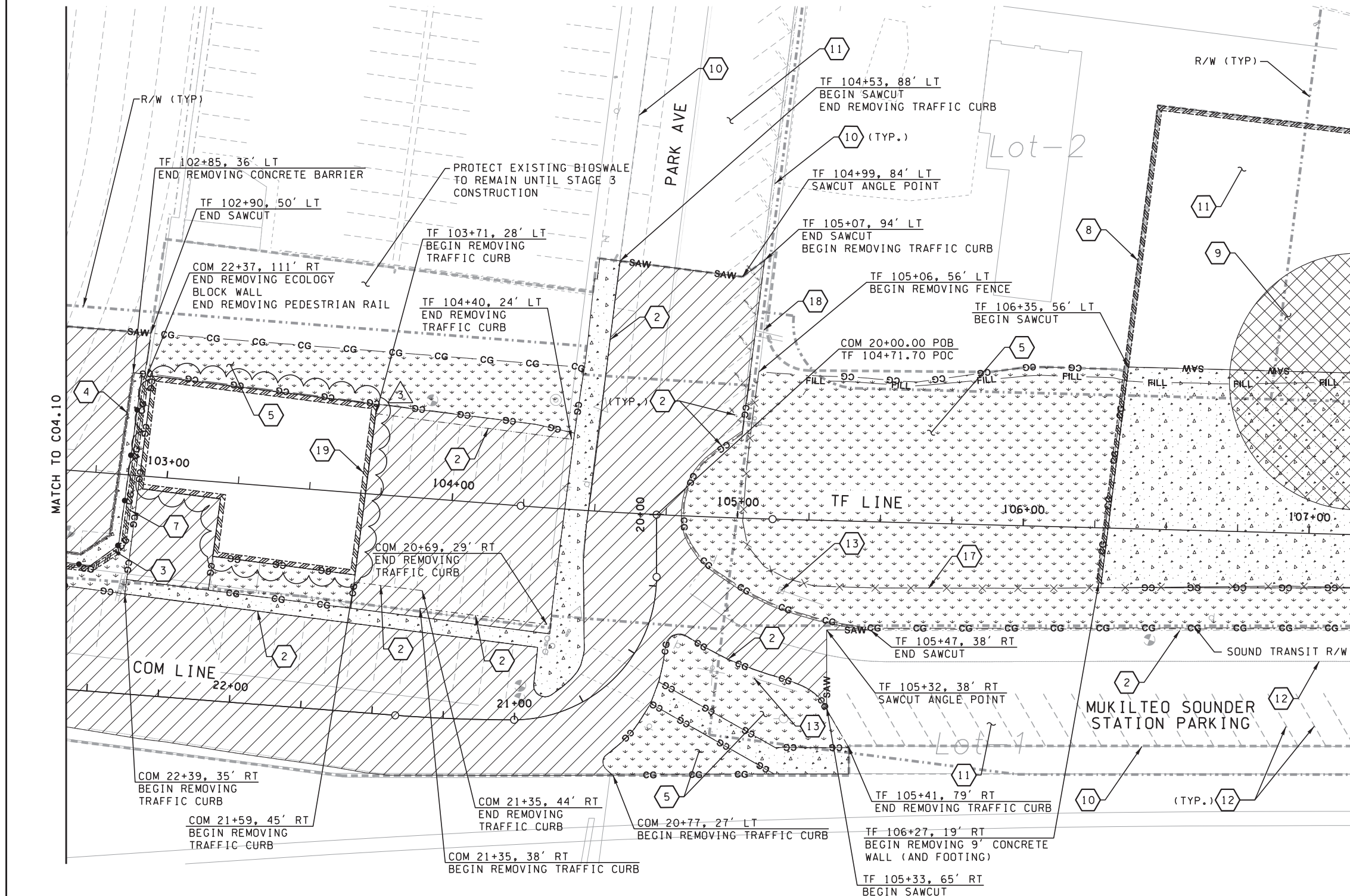
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2. SEE SIGNING PLANS FOR SIGNING REMOVALS, SEE SHEETS C12.10 TO C12.17
3. SEE UTILITY DEMO PLANS FOR LIMITS OF REMOVAL AND/OR ABANDONMENT. PRESERVE AND PROTECT ALL EXISTING UTILITY UNLESS NOTED OTHERWISE IN UTILITY DEMO PLANS, SEE SHEET C04.60 TO C04.67
4. SEE TESC PLANS FOR HIGH VISIBILITY FENCE (HVF) LOCATIONS, SEE SHEETS C03.10 TO C03.16
5. SEE ENVIRONMENTAL COMPLIANCE PLANS OR SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
6. SEE SHEET C04.00 FOR SITE PREPARATION LEGEND.
7. COORDINATE W/ WSF MAINTENANCE STAFF TO DETERMINE WHAT EQUIPMENT NEEDS TO BE SALVAGED IN EXISTING WSF BUILDINGS. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES:

- 1 DEMO EXISTING BUILDING (SEE NOTE 7)
- 2 REMOVE TRAFFIC CURB
- 3 REMOVE PEDESTRIAN RAILING
- 4 REMOVE CONCRETE BARRIER
- 5 REMOVE TREES AND SHRUBS
- 6 REMOVE MSE WALL
- 7 REMOVE ECOLOGY BLOCK WALL
- 8 REMOVE 9' CONCRETE WALL
- 9 REMOVE STEEL TANK REMNANTS AND DEBRIS. FILL WITH IMPERMEABLE MATERIAL.
- 10 PROTECT TRAFFIC CURB TO REMAIN
- 11 PAVEMENT/CONCRETE PAVEMENT TO REMAIN
- 12 REMOVE PAVEMENT MARKINGS
- 13 REMOVE GATE, SALVAGE FOR REINSTALLATION
- 14 PLACE TRAFFIC BARRIER PER WSDOT STD PLAN C-8.
- 15 PLACE 8' CHAINLINK FENCE TYPE 4 PER WSDOT STD PLAN L-20.10-03.
- 16 REMOVE PLATFORM AND STAIRS
- 17 REMOVE FENCE
- 18 PROTECT FENCE TO REMAIN
- 19 REMOVE BUILDING STEM WALL

KEY PLAN

0 20 40
SCALE 1" = 40'



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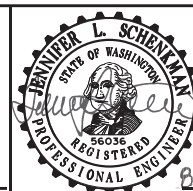
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8/21/2018

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MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

SITE PREPARATION PLAN

C04.11

SHEET

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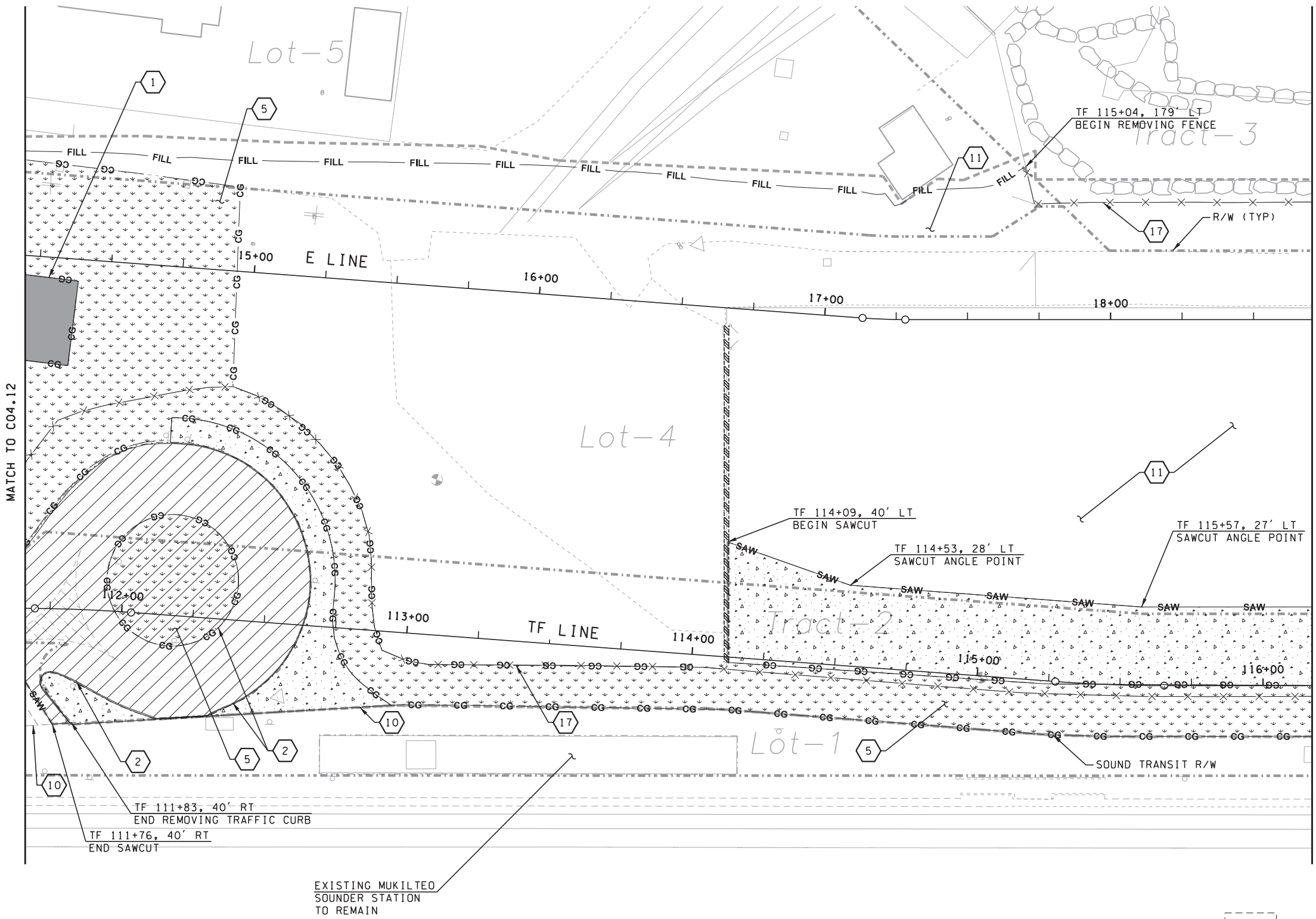
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6. SEE SHEET C04.00 FOR SITE PREPARATION LEGEND.
7. COORDINATE W/ WSF MAINTENANCE STAFF TO DETERMINE WHAT EQUIPMENT NEEDS TO BE SALVAGED IN EXISTING WSF BUILDINGS. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

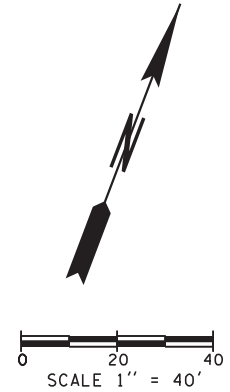
CONSTRUCTION NOTES:

- 1 DEMO EXISTING BUILDING (SEE NOTE 7)
- 2 REMOVE TRAFFIC CURB
- 3 REMOVE PEDESTRIAN RAILING
- 4 REMOVE CONCRETE BARRIER
- 5 REMOVE TREES AND SHRUBS
- 6 REMOVE MSE WALL
- 7 REMOVE ECOLOGY BLOCK WALL
- 8 REMOVE 9' CONCRETE WALL
- 9 REMOVE STEEL TANK REMNANTS AND DEBRIS. FILL WITH IMPERMEABLE MATERIAL.
- 10 PROTECT TRAFFIC CURB TO REMAIN
- 11 PAVEMENT/CONCRETE PAVEMENT TO REMAIN
- 12 REMOVE PAVEMENT MARKINGS
- 13 REMOVE GATE, SALVAGE FOR REINSTALLATION
- 14 PLACE TRAFFIC BARRIER PER WSDOT STD PLAN C-8.
- 15 PLACE 8' CHAINLINK FENCE TYPE 4 PER WSDOT STD PLAN L-20.10-03.
- 16 REMOVE PLATFORM AND STAIRS
- 17 REMOVE FENCE
- 18 PROTECT FENCE TO REMAIN

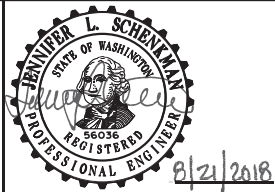


MATCH TO C04.14

MATCH TO C04.12



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DESIGNED BY: M. PANICK	8/21/2018			REGION NO. STATE
ENTERED BY: K. THOMAS	8/21/2018			10 WASH
CHECKED BY: J. SCHENKMAN	8/21/2018			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00****
	REVISION	DATE	BY	



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
SITE PREPARATION PLAN

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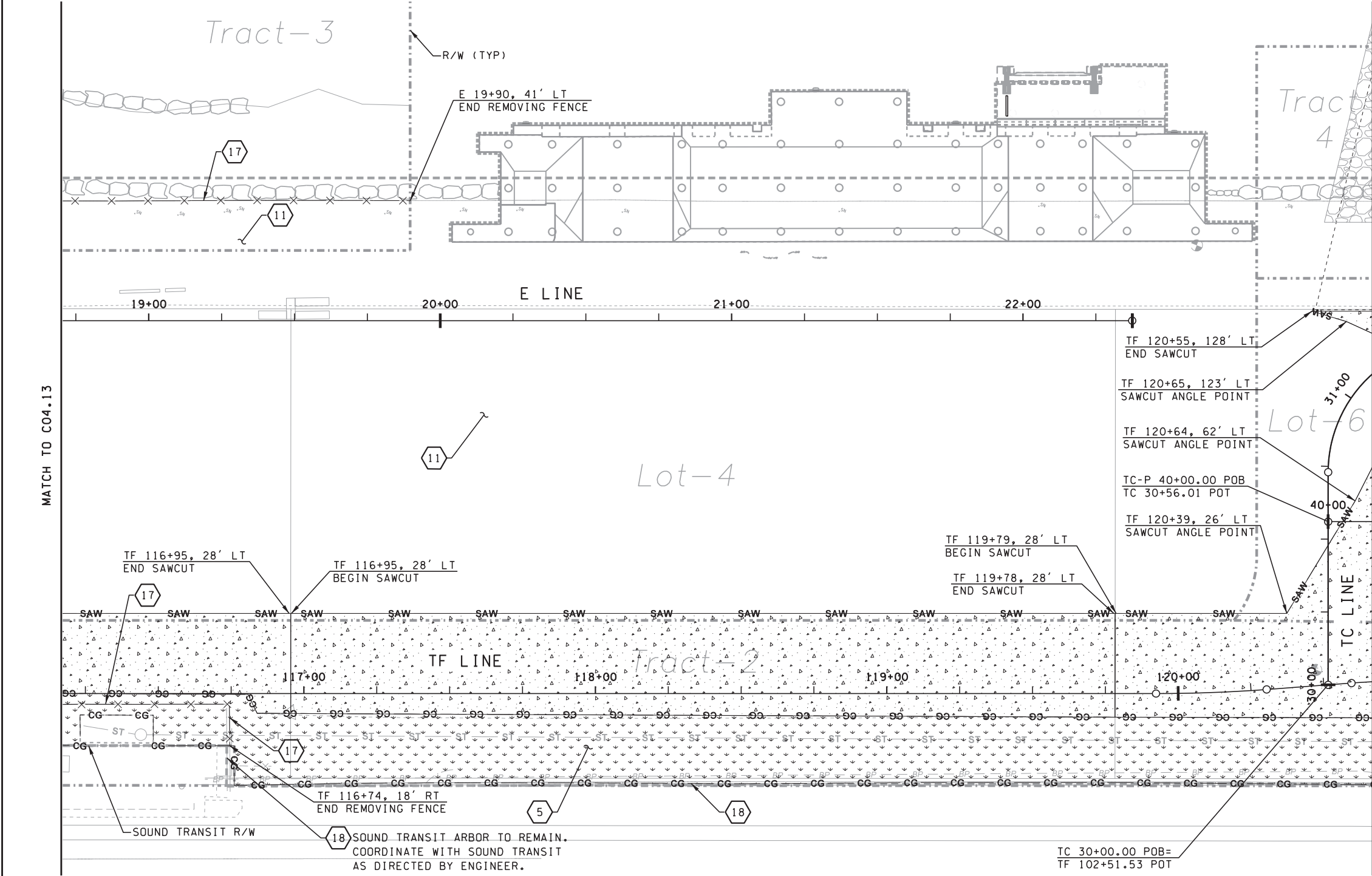
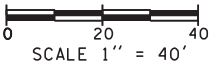
NOTES:

1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SEE SHEETS C06.10 TO C06.16
2. SEE SIGNING PLANS FOR SIGNING REMOVALS, SEE SHEETS C12.10 TO C12.17
3. SEE UTILITY DEMO PLANS FOR LIMITS OF REMOVAL AND/OR ABANDONMENT. PRESERVE AND PROTECT ALL EXISTING UTILITY UNLESS NOTED OTHERWISE IN UTILITY DEMO PLANS, SEE SHEET C04.60 TO C04.67
4. SEE TESC PLANS FOR HIGH VISIBILITY FENCE (HVF) LOCATIONS, SEE SHEETS C03.10 TO C03.16
5. SEE ENVIRONMENTAL COMPLIANCE PLANS OR SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
6. SEE SHEET C04.00 FOR SITE PREPARATION LEGEND.
7. COORDINATE W/ WSF MAINTENANCE STAFF TO DETERMINE WHAT EQUIPMENT NEEDS TO BE SALVAGED IN EXISTING WSF BUILDINGS. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES:

- 1 DEMO EXISTING BUILDING (SEE NOTE 7)
- 2 REMOVE TRAFFIC CURB
- 3 REMOVE PEDESTRIAN RAILING
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- 8 REMOVE 9' CONCRETE WALL
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- 13 REMOVE GATE, SALVAGE FOR REINSTALLATION
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- 16 REMOVE PLATFORM AND STAIRS
- 17 REMOVE FENCE
- 18 PROTECT FENCE TO REMAIN

KEY PLAN



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Washington State
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WASHINGTON STATE FERRIES

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MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

SITE PREPARATION PLAN

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CHECKED BY: J. SCHENKMAN	8/21/2018			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00****
	REVISION	DATE	BY	

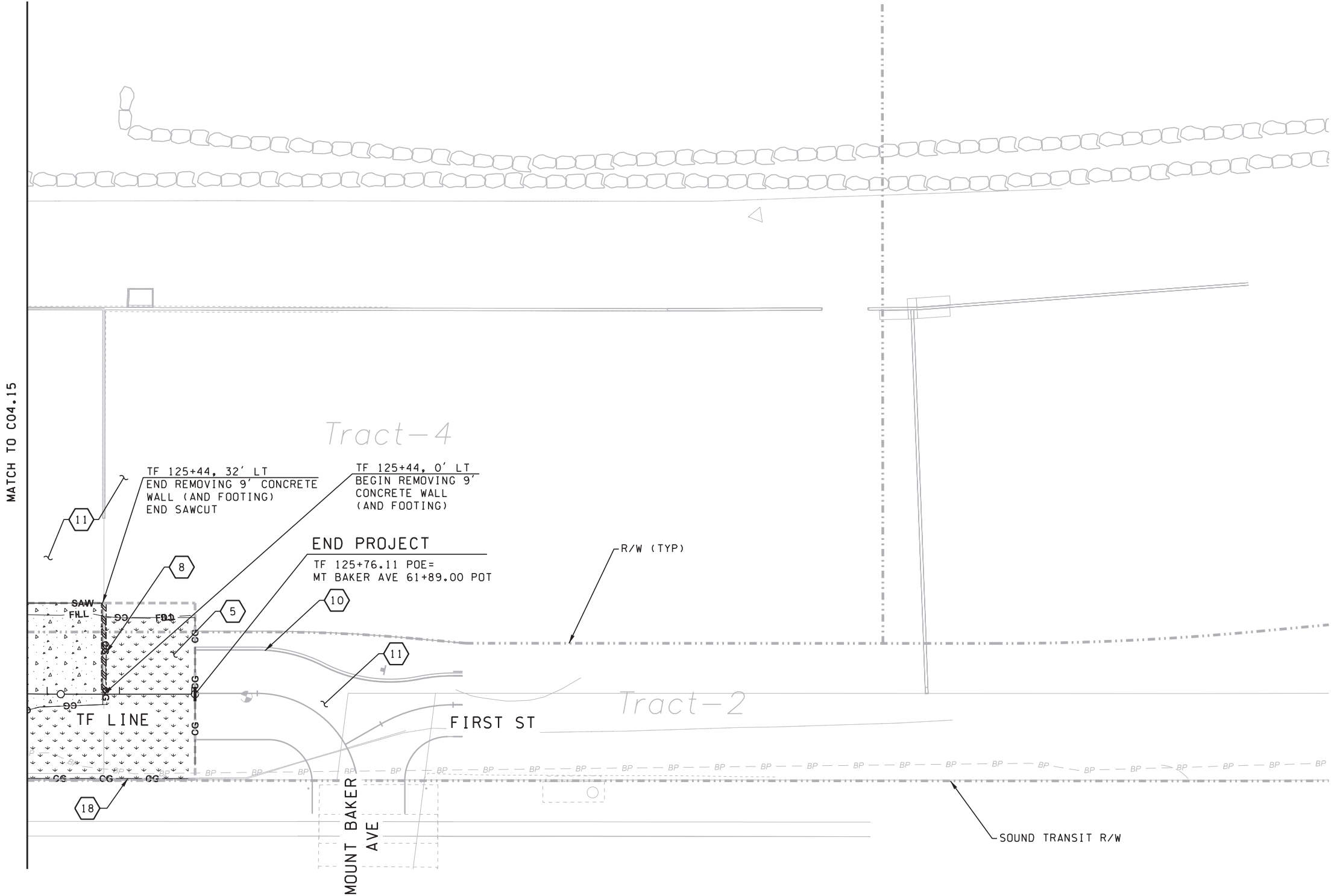


NOTES:

- 1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SEE SHEETS C06.10 TO C06.16
- 2. SEE SIGNING PLANS FOR SIGNING REMOVALS, SEE SHEETS C12.10 TO C12.17
- 3. SEE UTILITY DEMO PLANS FOR LIMITS OF REMOVAL AND/OR ABANDONMENT. PRESERVE AND PROTECT ALL EXISTING UTILITY UNLESS NOTED OTHERWISE IN UTILITY DEMO PLANS, SEE SHEET C04.60 TO C04.67
- 4. SEE TESC PLANS FOR HIGH VISIBILITY FENCE (HVF) LOCATIONS, SEE SHEETS C03.10 TO C03.16
- 5. SEE ENVIRONMENTAL COMPLIANCE PLANS OR SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- 6. SEE SHEET C04.00 FOR SITE PREPARATION LEGEND.
- 7. COORDINATE W/ WSF MAINTENANCE STAFF TO DETERMINE WHAT EQUIPMENT NEEDS TO BE SALVAGED IN EXISTING WSF BUILDINGS. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES:

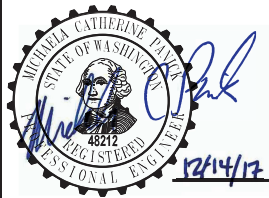
- 1 DEMO EXISTING BUILDING (SEE NOTE 7)
- 2 REMOVE TRAFFIC CURB
- 3 REMOVE PEDESTRIAN RAILING
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- 17 REMOVE FENCE
- 18 PROTECT FENCE TO REMAIN



KEY PLAN

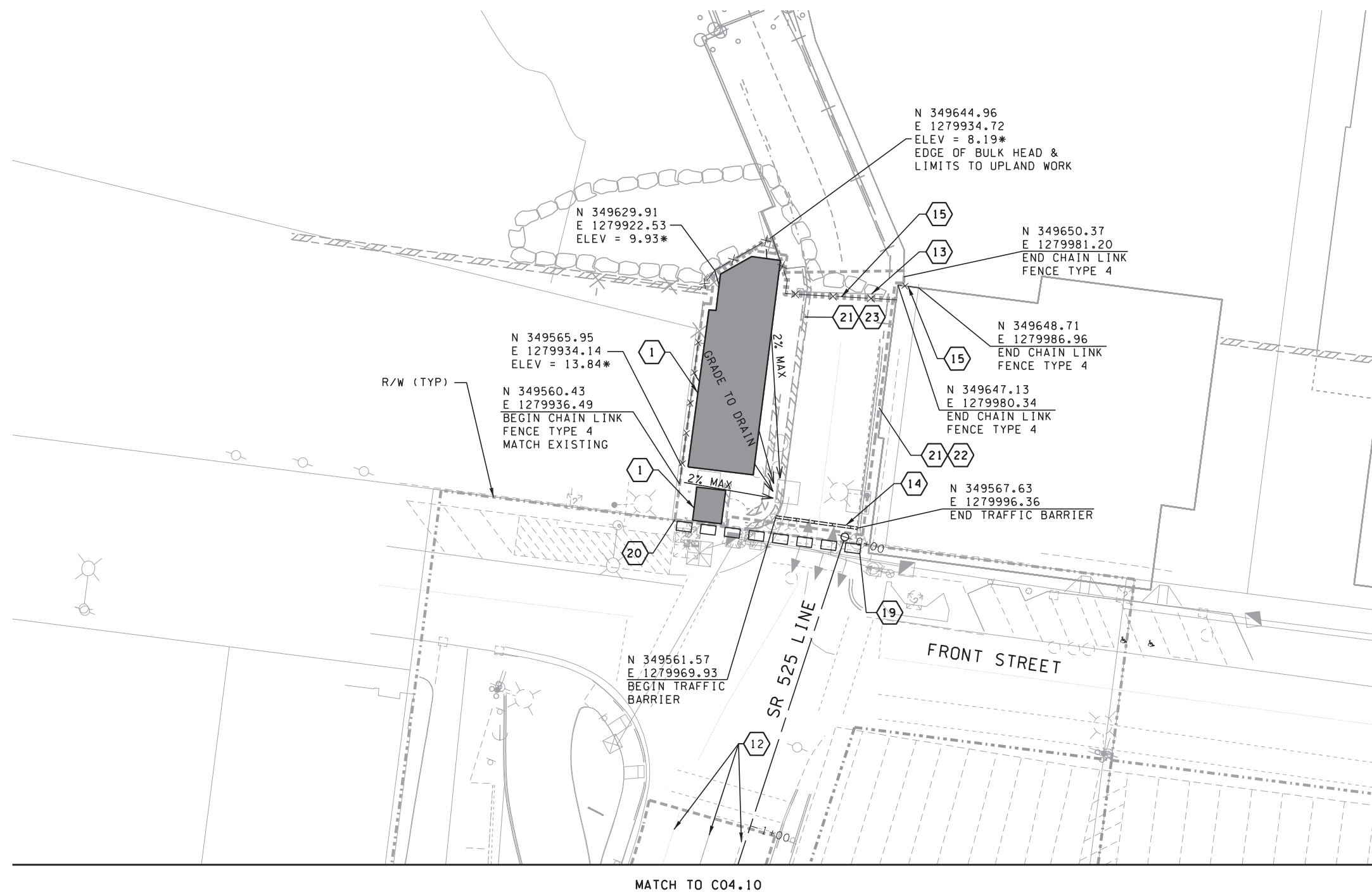
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DESIGNED BY: K. THOMAS					10 WASH		
ENTERED BY: C. CONRAD					JOB NUMBER		
CHECKED BY: M. PANICK					18W121		
MAR PROJ ENGR: C. TORRES					CONTRACT NO.		
DIR TERM ENGR: N. MCINTOSH					00****		
ASST SECRETARY: A. SCARTON					REVISION	DATE	BY



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
SITE PREPARATION PLAN

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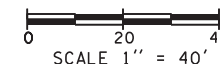
NOTES:

1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SEE SHEETS C06.10 TO C06.16
2. SEE SIGNING PLANS FOR SIGNING REMOVALS, SEE SHEETS C12.10 TO C12.17
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CONSTRUCTION NOTES:

- 1 DEMO EXISTING BUILDING (SEE NOTE 7)
- 2 REMOVE TRAFFIC CURB
- 3 REMOVE PEDESTRIAN RAILING
- 4 REMOVE CONCRETE BARRIER
- 5 REMOVE TREES AND SHRUBS
- 6 REMOVE MSE WALL
- 7 REMOVE ECOLOGY BLOCK WALL
- 8 REMOVE 9' CONCRETE WALL
- 9 REMOVE STEEL TANK REMNANTS AND DEBRIS. FILL WITH IMPERMEABLE MATERIAL.
- 10 PROTECT TRAFFIC CURB TO REMAIN
- 11 PAVEMENT/CONCRETE PAVEMENT TO REMAIN
- 12 REMOVE PAVEMENT MARKINGS
- 13 REMOVE GATE, SALVAGE FOR REINSTALLATION
- 14 PLACE TRAFFIC BARRIER PER WSDOT STD PLAN C-8.
- 15 PLACE 8' CHAINLINK FENCE TYPE 4 PER WSDOT STD PLAN L-20.10-03.
- 16 REMOVE PLATFORM AND STAIRS
- 17 REMOVE FENCE
- 18 PROTECT FENCE TO REMAIN
- 19 PLACE 3'x5' CONCRETE PLANTER BOXES AT 3' SPACING BETWEEN PLANTERS.
- 20 REMOVE CONCRETE WALLS, SIDEWALK, STAIRS, AND FOOTINGS DOWN TO 6' BELOW FINISHED GRADE.
- 21 REMOVE CONCRETE CURB
- 22 REMOVE WOOD RAILING
- 23 SALVAGE METAL RAILING. TO BE USED FOR FENCING.

KEY PLAN



* CONTRACTOR TO VERIFY IN FIELD

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c04_17.dwg

PRINTED: 11:43:06 AM 8/21/2018

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CHECKED BY: J. SCHENKMAN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

danleiji

8/21/2018

8/21/2018

8/21/2018

REVISION

DATE

BY

FED.AID
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

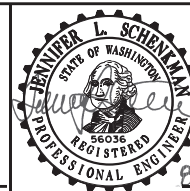
10 WASH

JOB NUMBER

18W121

CONTRACT NO.

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8/21/2018

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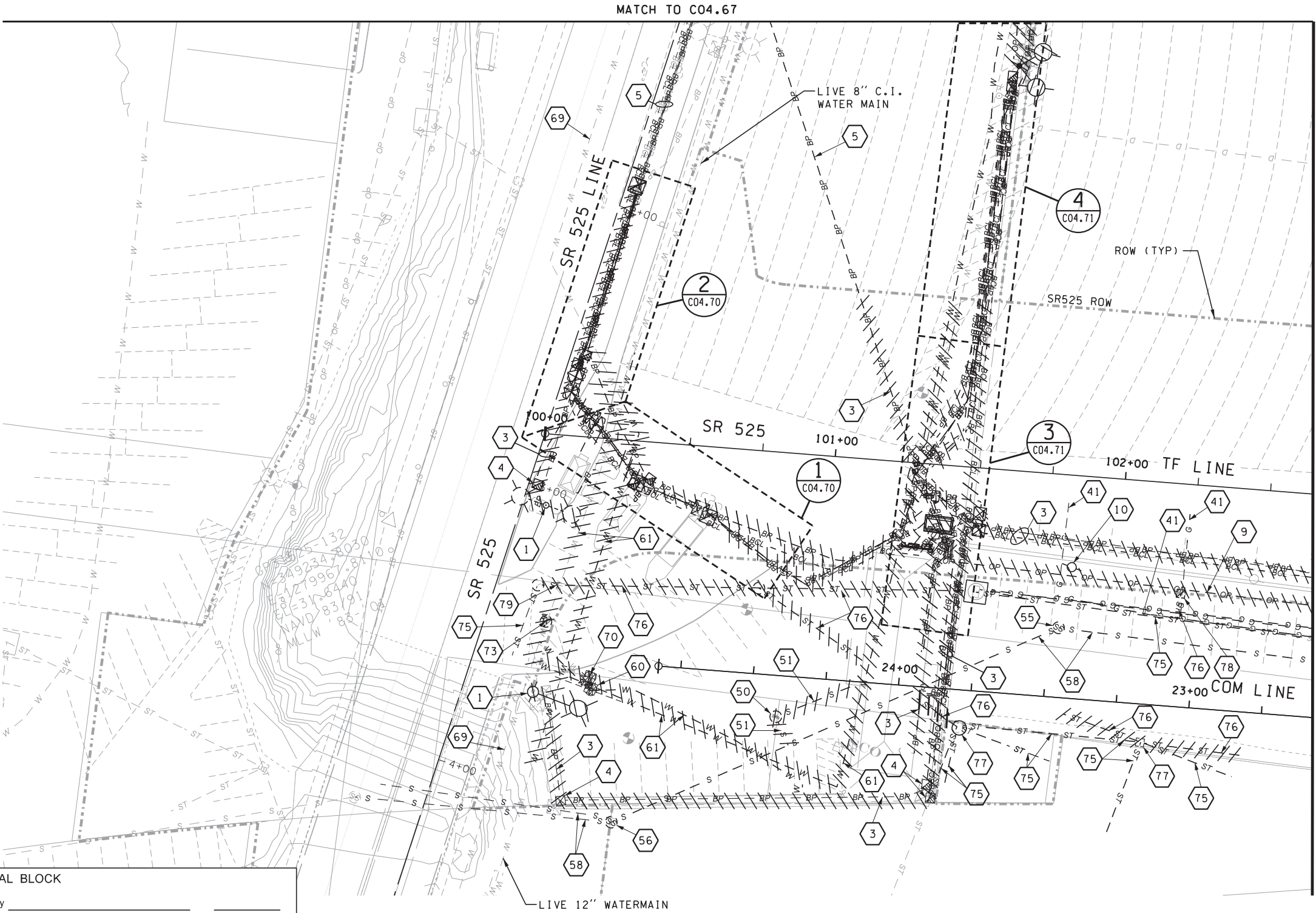
Washington State
Department of Transportation
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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

SITE PREPARATION PLAN

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- NOTES:**
1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SITE ELECTRICAL PLAN SHEETS FOR POLE RELOCATION.
 3. SEE SHEET C04.00 FOR UTILITY DEMOLITION ABBREVIATIONS AND LEGEND.

- CONSTRUCTION NOTES:**
- 1 REMOVE EXISTING LIGHT POLE AND LUMINAIRE. RETURN TO OWNER PER STANDARD SPECIFICATIONS. PULL CONDUCTOR TO NEAREST J-BOX AND TERMINATE.
 - 3 SALVAGE EXISTING CONDUCTORS AND REMOVE EXISTING CONDUIT.
 - 4 REMOVE J-BOX.
 - 5 ABANDON EXISTING BURIED CONDUIT AND CONDUCTORS.
 - 9 EXISTING OVERHEAD CONDUCTORS TO BE REMOVED. COORDINATE WITH LOCAL SERVICE PROVIDERS AS NEEDED.
 - 10 REMOVE AND DISCARD EXISTING POWER POLE.
 - 41 GAS TO BE ABANDONED BY PSE.
 - 50 REMOVE EXISTING SS MANHOLE.
 - 51 REMOVE EXISTING SS LINE.
 - 55 ABANDON SS MH, REMOVE TO 6 FT BELOW FINISH GRADE.
 - 56 ABANDON SS MH, REMOVE TO 4 FT BELOW FINISH GRADE.
 - 58 ABANDON SS LINE, FILL WITH CDF.
 - 60 REMOVE EXISTING AIR/VACUUM RELEASE VALVE.
 - 61 REMOVE EXISTING WATER MAIN.
 - 69 EXISTING UTILITY HAS BEEN ABANDONED PER UTILITY OWNER.
 - 70 REMOVE EXISTING WATER SERVICE. PLACE MWWO SUPPLIED DISC PLUG IN CORPORATION STOP WHERE MAIN IS TO REMAIN ACTIVE.
 - 73 REMOVE WATER VAULT AND VALVE (LIVE WATER).
 - 75 ABANDON STORM SEWER.
 - 76 REMOVE STORM SEWER.
 - 77 ABANDON STORM SEWER STRUCTURE.
 - 78 REMOVE STORM SEWER STRUCTURE.
 - 79 REMOVE STORM DRAIN PIPE 2 FT FROM STRUCTURE AND PLUG.

MATCH TO C04.61

APPROVAL BLOCK

Approved by _____ Date _____

Mukilteo Water and Wastewater _____

Mukilteo Water and Wastewater District Extension No. _____

Gray & Osborne No. _____

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review and revision, due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.

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SUBMITTAL DATE:	08/23/18
DESIGNED BY:	D. PERRY
ENTERED BY:	D. PERRY
CHECKED BY:	R. LUDWIG
MAR PROJ ENGR:	C. TORRES
DIR TERM ENGR:	N. MCINTOSH
ASST SECRETARY:	A. SCARTON

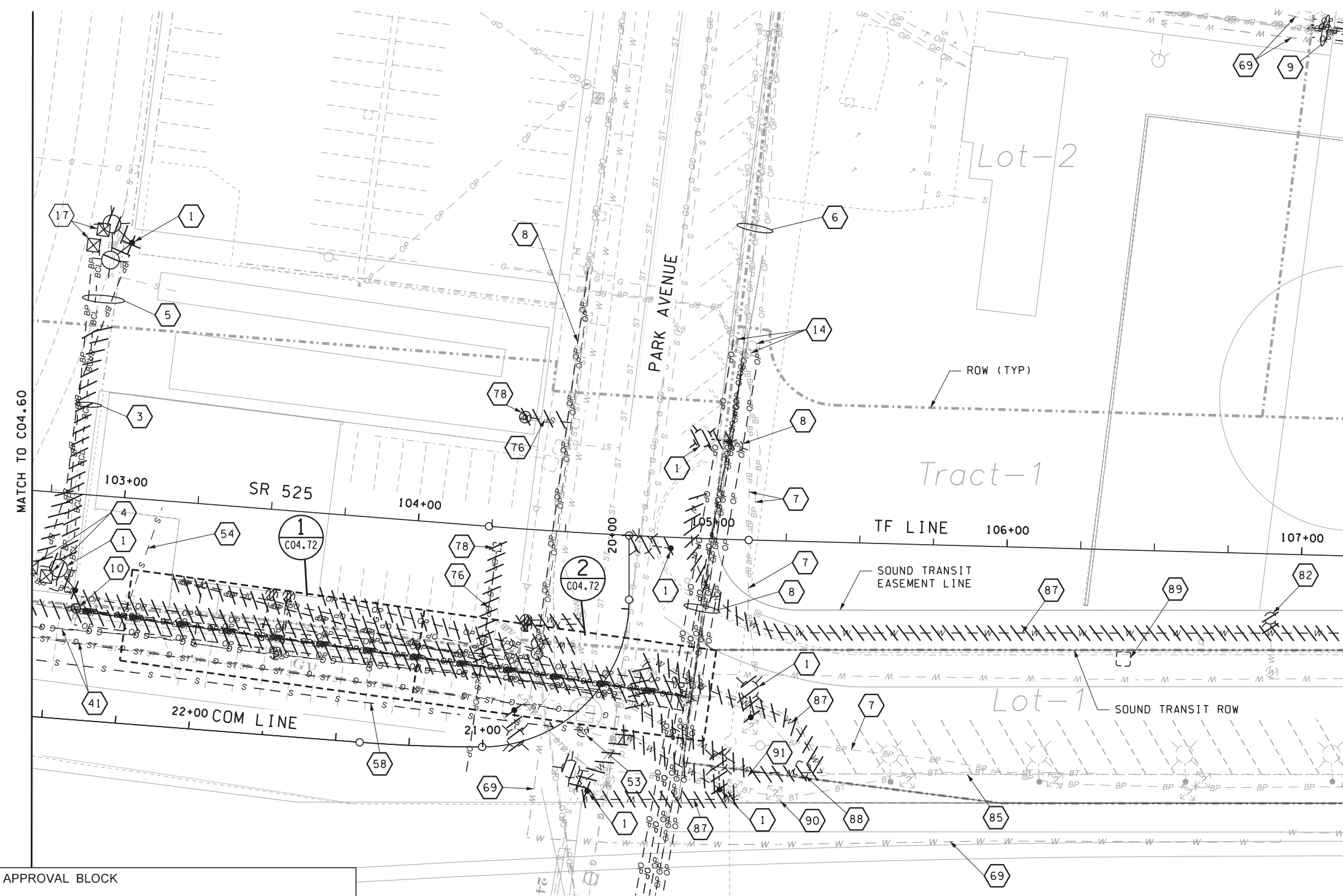
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FED.AID PROJ.NO.	REGION NO.	STATE	JOB NUMBER	CONTRACT NO.
WA-2017-007-00	10	WASH	18W121	00****



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
UTILITY DEMOLITION PLAN

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- NOTES:**
- CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - SEE SITE ELECTRICAL PLAN SHEETS FOR POLE RELOCATION.
 - SEE SHEET C04.00 FOR UTILITY DEMOLITION ABBREVIATIONS AND LEGEND.
- CONSTRUCTION NOTES:**
- REMOVE EXISTING LIGHT POLE AND LUMINAIRE. RETURN TO OWNER PER STANDARD SPECIFICATIONS. PULL CONDUCTOR TO NEAREST J-BOX AND TERMINATE.
 - SALVAGE EXISTING CONDUCTORS AND REMOVE EXISTING CONDUIT.
 - REMOVE J-BOX.
 - ABANDON EXISTING BURIED CONDUIT AND CONDUCTORS.
 - EXISTING OVERHEAD UTILITY POWER LINES. PROTECT IN PLACE.
 - EXISTING UNDERGROUND ELECTRICAL DUCT BANK. PROTECT IN PLACE.
 - EXISTING POWER POLE AND OVERHEAD POWER LINES TO BE RELOCATED BY SNOPOD.
 - EXISTING OVERHEAD CONDUCTORS TO BE REMOVED. COORDINATE WITH LOCAL SERVICE PROVIDERS AS NEEDED.
 - REMOVE AND DISCARD EXISTING POWER POLE.
 - EXISTING UTILITY POLE. PROTECT IN PLACE.
 - ABANDON J-BOX.
 - GAS TO BE ABANDONED BY PSE.
 - RECHANNEL EXISTING MANHOLE.
 - ABANDON SANITARY SIDE SEWER, FILL WITH CDF.
 - ABANDON SS LINE, FILL WITH CDF.
 - EXISTING UTILITY HAS BEEN ABANDONED PER UTILITY OWNER.
 - REMOVE STORM SEWER.
 - REMOVE STORM SEWER STRUCTURE.
 - RELOCATE EXISTING FIRE HYDRANT.
 - PROTECT EXISTING IRRIGATION SYSTEM.
 - EXISTING IRRIGATION LINE TO BE REMOVED. LOCATION IS ESTIMATED.
 - EXISTING IRRIGATION LINE TO BE CUT AND TEMPORARILY CAPPED. SEE IRRIGATION PLAN SHEET C09.51.
 - EXISTING IRRIGATION RAINBIRD 1-1/2" ACV WITH "TBOS" BATTERY OPERATED SOLENOID. TO BE REMOVED AND RETURNED TO SOUND TRANSIT.
 - EXISTING ARBOR AND DRIP IRRIGATION SYSTEM TO REMAIN.
 - CAP EXISTING MAINLINE AND CONTROL WIRES. SEE SHEET C09.11 FOR MORE INFORMATION.

APPROVAL BLOCK

Approved by _____ Date _____

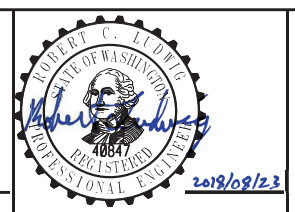
Mukilteo Water and Wastewater

Mukilteo Water and Wastewater District Extension No. _____

Gray & Osborne No. _____

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DESIGNED BY: D. PERRY	8/21/2018		REGION NO. STATE
ENTERED BY: D. PERRY	8/21/2018		10 WASH
CHECKED BY: R. LUDWIG	8/21/2018		JOB NUMBER
MAR PROJ ENGR: C. TORRES			18W121
DIR TERM ENGR: N. MCINTOSH			CONTRACT NO.
ASST SECRETARY: A. SCARTON			00****
	REVISION	DATE	BY

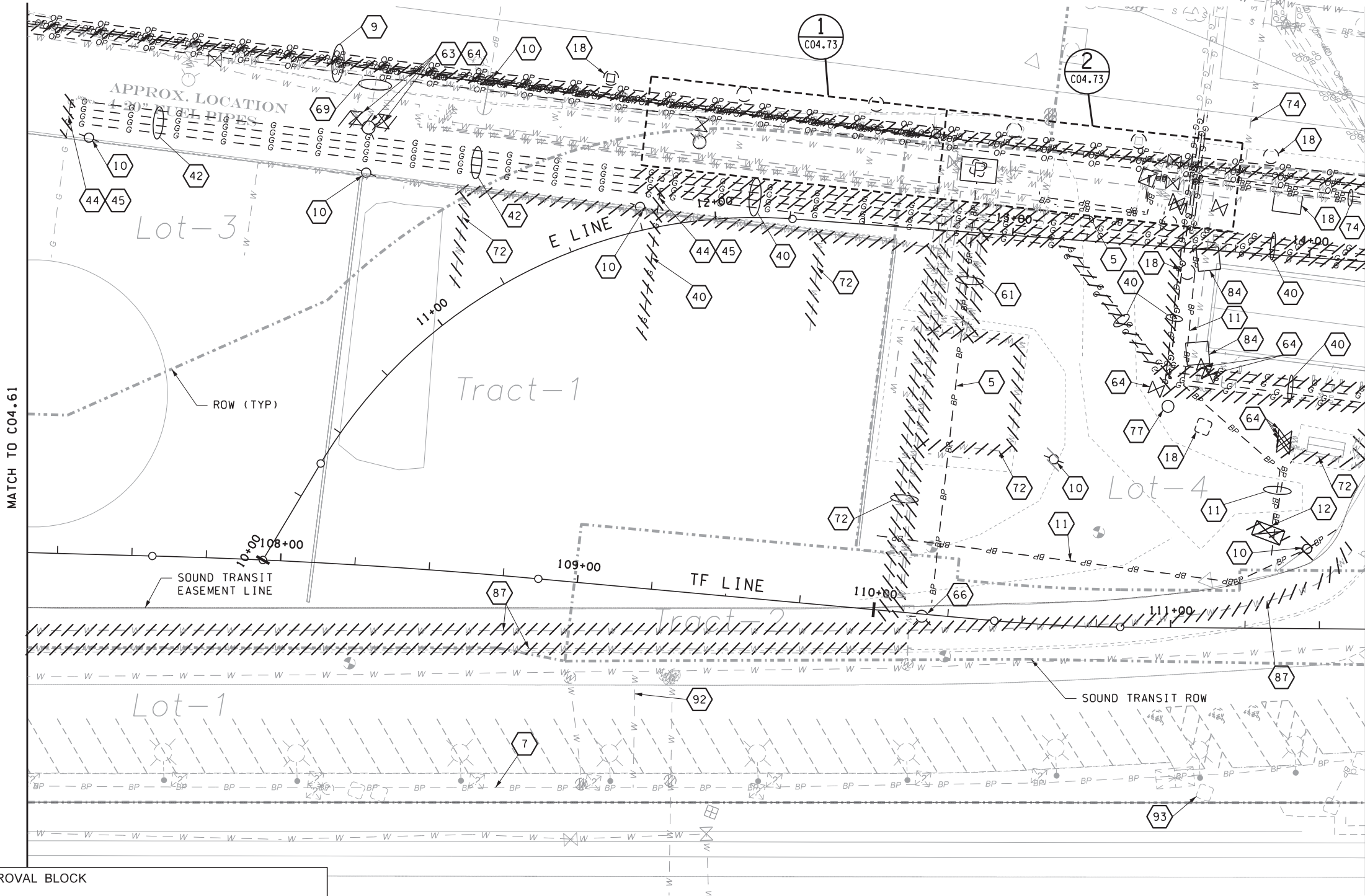


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

UTILITY DEMOLITION PLAN

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NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. SEE SITE ELECTRICAL PLAN SHEETS FOR POLE RELOCATION.
3. SEE SHEET C04.00 FOR UTILITY DEMOLITION ABBREVIATIONS AND LEGEND.

CONSTRUCTION NOTES:

- 5 ABANDON EXISTING BURIED CONDUIT AND CONDUCTORS.
- 7 EXISTING UNDERGROUND ELECTRICAL DUCT BANK. PROTECT IN PLACE.
- 9 EXISTING OVERHEAD CONDUCTORS TO BE REMOVED. COORDINATE WITH LOCAL SERVICE PROVIDERS AS NEEDED.
- 10 REMOVE AND DISCARD EXISTING POWER POLE.
- 11 REMOVE AND DISCARD CONDUCTORS. CAP CONDUIT ENDS AND ABANDON IN PLACE.
- 12 REMOVE AND DISCARD EXISTING ELECTRICAL BOX.
- 18 ABANDON UTILITY VAULT.
- 40 REMOVE BELOW-GRADE ABANDONED LIQUID GAS PIPE.
- 42 FILL BELOW-GRADE LIQUID GAS PIPE WITH CDF.
- 44 REMOVE ABOVE-GRADE ABANDONED LIQUID GAS PIPING.
- 45 REMOVE BELOW GRADE REINFORCED CONCRETE SLAB FOR GAS PIPING.
- 61 REMOVE EXISTING WATER LINE.
- 63 REMOVE EXISTING FIRE HYDRANT.
- 64 REMOVE EXISTING VALVE. PLUG PIPE TO REMAIN.
- 66 REMOVE EXISTING FIRE HYDRANT, SPOOL, AND VALVE. PLACE BLIND FLANGE AND THRUST BLOCK AT TEE. COORDINATE MAIN SHUTDOWN WITH MWWD.
- 69 EXISTING UTILITY HAS BEEN ABANDONED PER UTILITY OWNER.
- 72 REMOVE ABANDONED WATER MAIN.
- 74 ABANDONED WATER LINE. FILL WITH CDF.
- 77 ABANDON STORM SEWER STRUCTURE.
- 84 ABANDON WATER VAULT.
- 87 EXISTING IRRIGATION LINE TO BE REMOVED. LOCATION IS ESTIMATED.
- 92 EXISTING IRRIGATION LINE TO BE CUT AND CAPPED.
- 93 EXISTING IRRIGATION CONTROLLER TO REMAIN.

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

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MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY: danielejl

8/21/2018

8/21/2018

8/21/2018

REVISION

DATE

BY

FED.AID

PROJ.NO.

WA-2017-007-00

REGION NO. STATE

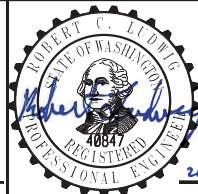
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JOB NUMBER

18W121

CONTRACT NO.

00****



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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

UTILITY DEMOLITION PLAN

C04.62

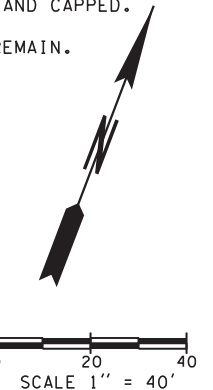
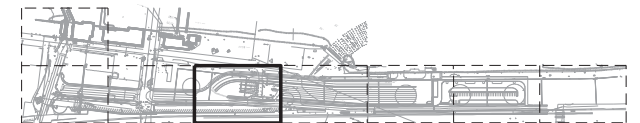
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OF

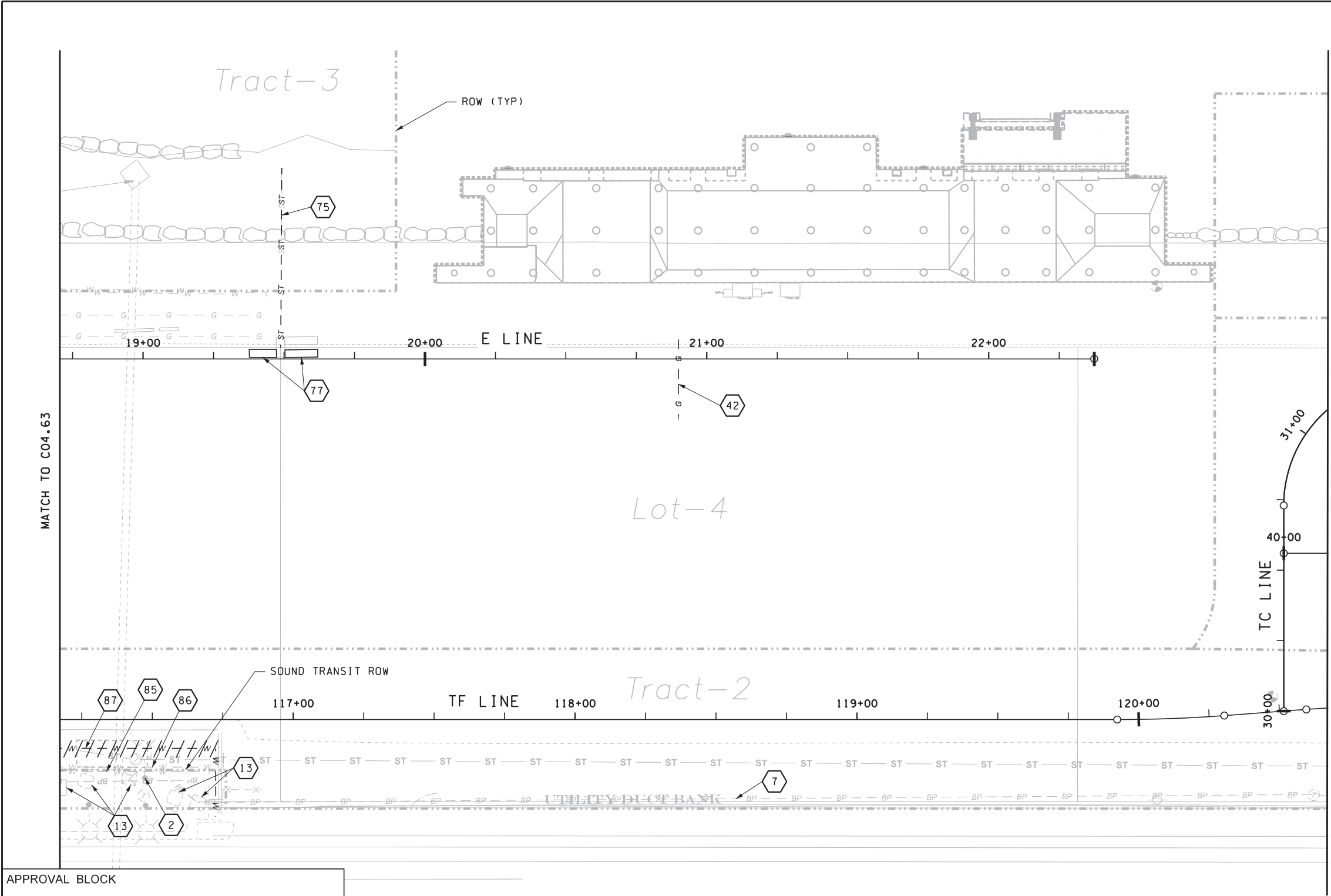
1521

SHEETS



- NOTES:
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 2. SEE SITE ELECTRICAL PLAN SHEETS FOR POLE RELOCATION.
 3. SEE SHEET C04.00 FOR UTILITY DEMOLITION ABBREVIATIONS AND LEGEND.

- CONSTRUCTION NOTES:
- 2 PROTECT LIGHT IN PLACE.
 - 7 EXISTING UNDERGROUND ELECTRICAL DUCT BANK. PROTECT IN PLACE.
 - 13 EXISTING ELECTRICAL VAULT. PROTECT IN PLACE.
 - 42 FILL BELOW-GRADE LIQUID GAS PIPE WITH CDF.
 - 75 ABANDON STORM SEWER.
 - 77 ABANDON STORM SEWER STRUCTURE.
 - 85 PROTECT EXISTING IRRIGATION SYSTEM.
 - 86 PROTECT EXISTING 3" PVC SLEEVE AND TWO 4" HDPE SLEEVES.
 - 87 EXISTING IRRIGATION LINE TO BE REMOVED. LOCATION IS ESTIMATED.



APPROVAL BLOCK

Approved by _____ Date _____

Mukilteo Water and Wastewater _____

Mukilteo Water and Wastewater District Extension No. _____

Gray & Osborne No. _____

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review and revision, due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.

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SUBMITTAL DATE: 12/22/17			WA-2017-007-00
DESIGNED BY: D. PERRY	12/15/2017		REGION NO. STATE
ENTERED BY: D. PERRY	12/15/2017		10 WASH
CHECKED BY: R. LUDWIG	12/15/2017		JOB NUMBER
MAR PROJ ENGR: C. TORRES			18W121
DIR TERM ENGR: N. MCINTOSH			CONTRACT NO.
ASST SECRETARY: A. SCARTON			00*****
REVISION	DATE	BY	



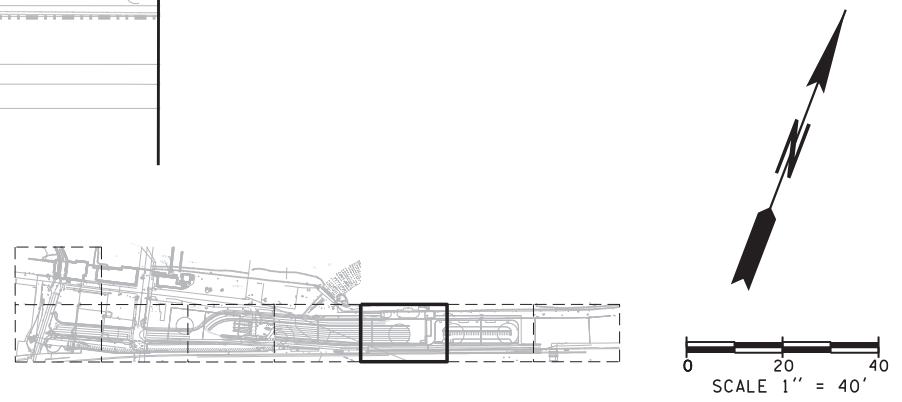
JACOBS

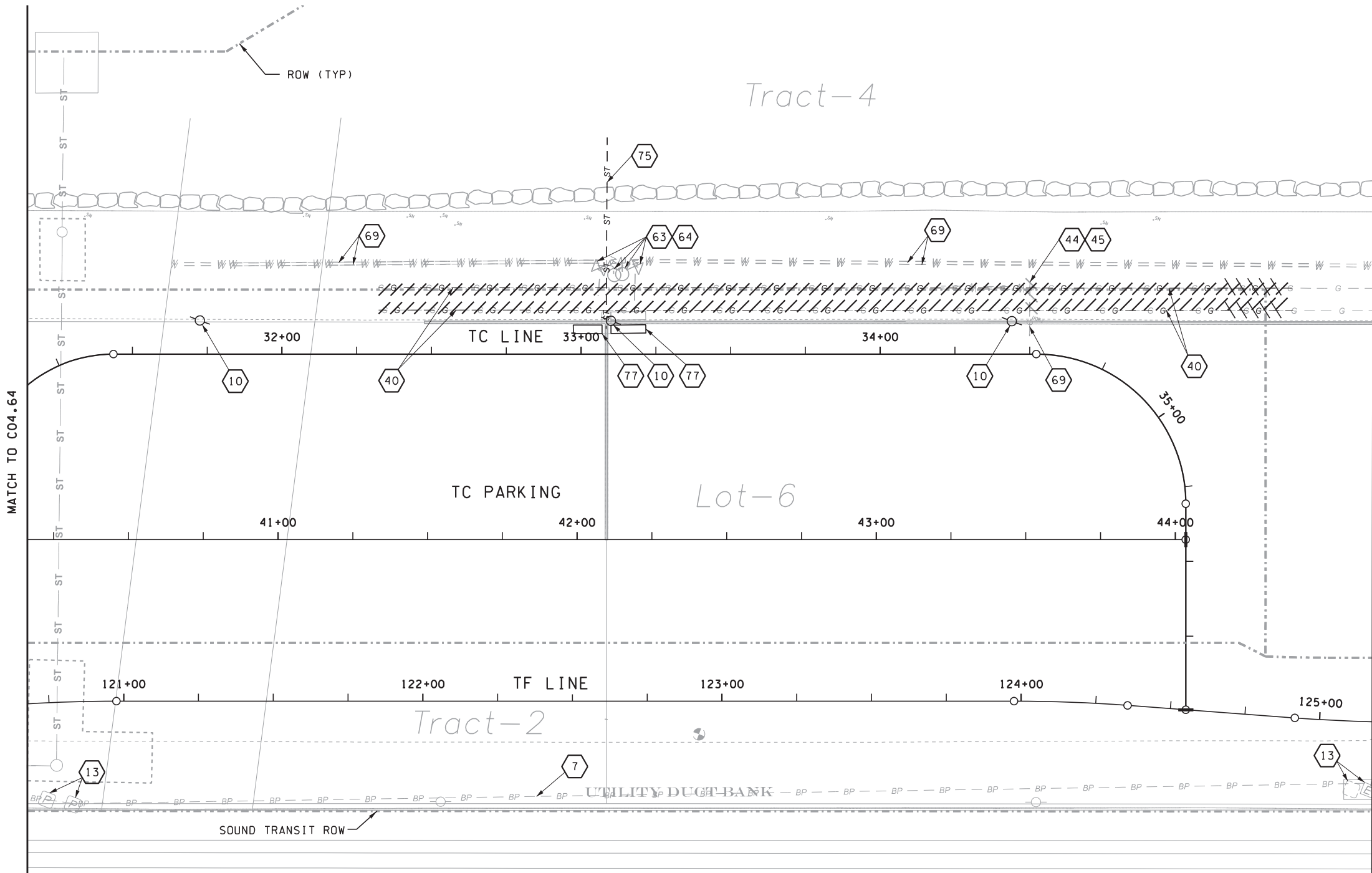
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

UTILITY DEMOLITION PLAN

C04.64
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1521
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NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. SEE SITE ELECTRICAL PLAN SHEETS FOR POLE RELOCATION.
3. SEE SHEET C04.00 FOR UTILITY DEMOLITION ABBREVIATIONS AND LEGEND.

CONSTRUCTION NOTES:

- 7 EXISTING UNDERGROUND ELECTRICAL DUCT BANK. PROTECT IN PLACE.
- 10 REMOVE AND DISCARD EXISTING POWER POLE.
- 13 EXISTING ELECTRICAL VAULT. PROTECT IN PLACE.
- 40 REMOVE BELOW-GRADE ABANDONED LIQUID GAS PIPE.
- 44 REMOVE ABOVE-GRADE ABANDONED LIQUID GAS PIPING.
- 45 REMOVE BELOW-GRADE REINFORCED CONCRETE SLAB FOR GAS PIPING.
- 63 REMOVE EXISTING FIRE HYDRANT.
- 64 REMOVE EXISTING VALVE. PLUG PIPE TO REMAIN
- 69 EXISTING UTILITY HAS BEEN ABANDONED PER UTILITY OWNER.
- 75 ABANDON STORM SEWER.
- 77 ABANDON STORM SEWER STRUCTURE.

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review and revision, due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.

FILE NAME: WSW\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121c04_65.dwg

PRINTED: 11:08:54 AM 8/21/2018

SUBMITTAL DATE: 08/23/18

DESIGNED BY: D. PERRY

ENTERED BY: D. PERRY

CHECKED BY: R. LUDWIG

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY: danielji

8/21/2018

8/21/2018

8/21/2018

REVISION

DATE

BY

FED.AID

PROJ.NO.

WA-2017-007-00

REGION NO. STATE

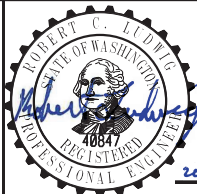
10 WASH

JOB NUMBER

18W121

CONTRACT NO.

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JACOBS



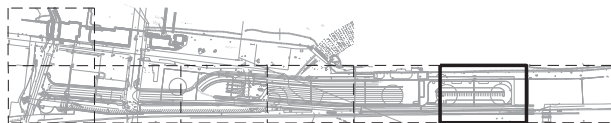
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

UTILITY DEMOLITION PLAN

C04.65

SHEET
101
OF
1521
SHEETS

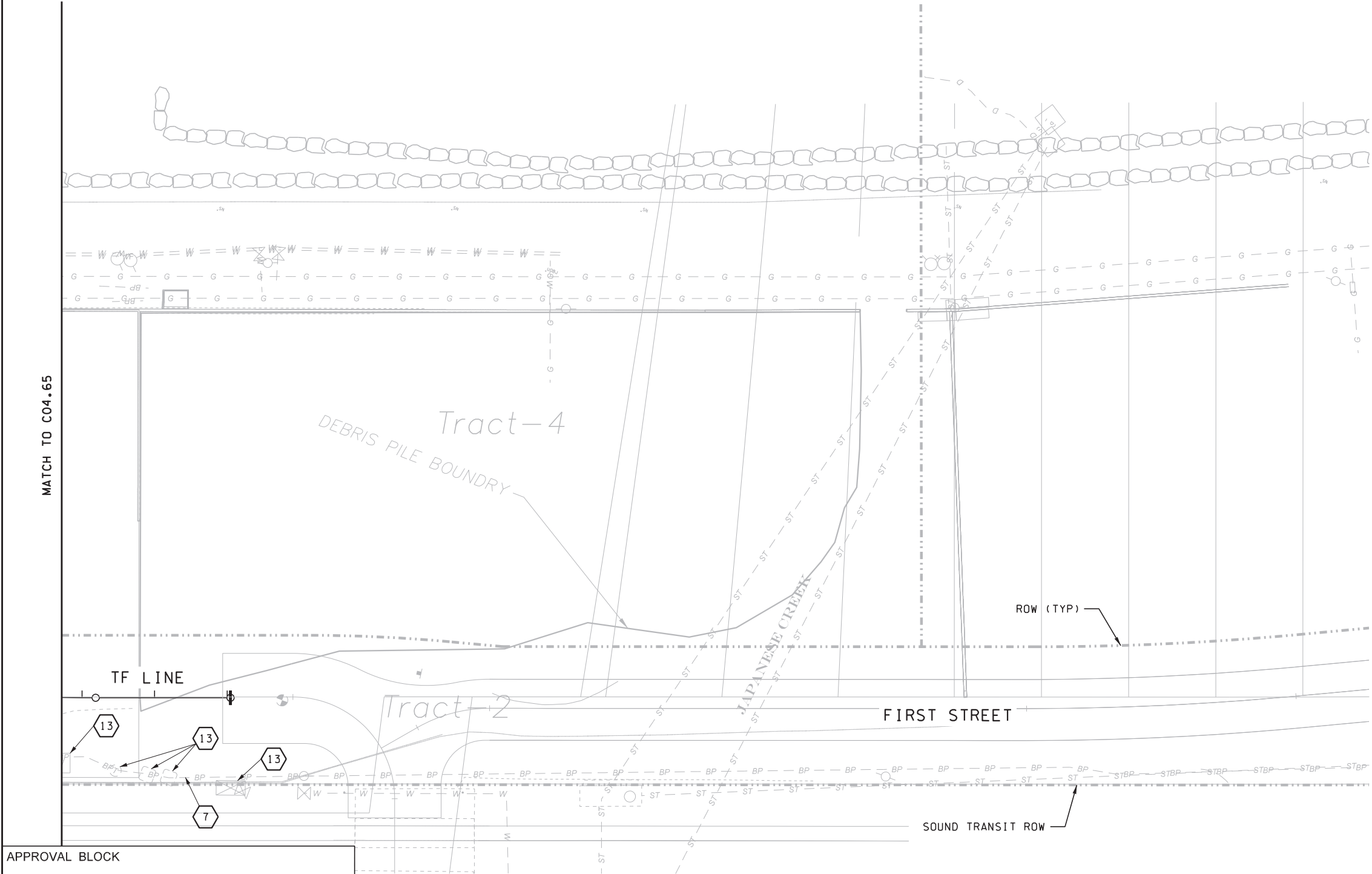


0 20 40
SCALE 1" = 40'



- NOTES:
1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SITE ELECTRICAL PLAN SHEETS FOR POLE RELOCATION.
 3. SEE SHEET C04.00 FOR UTILITY DEMOLITION ABBREVIATIONS AND LEGEND.

- CONSTRUCTION NOTES:
- 7 EXISTING UNDERGROUND ELECTRICAL DUCT BANK. PROTECT IN PLACE.
 - 13 EXISTING ELECTRICAL VAULT. PROTECT IN PLACE.



APPROVAL BLOCK

Approved by _____ Date _____

Mukilteo Water and Wastewater

Mukilteo Water and Wastewater District Extension No. _____

Gray & Osborne No. _____

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review and revision, due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.

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SUBMITTAL DATE: 12/22/17					WA-2017-007-00		
DESIGNED BY: D. PERRY	12/15/2017				REGION NO. STATE		
ENTERED BY: D. PERRY	12/15/2017				10 WASH		
CHECKED BY: R. LUDWIG	12/15/2017				JOB NUMBER		
MAR PROJ ENGR: C. TORRES					18W121		
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.		
ASST SECRETARY: A. SCARTON					00*****		
	REVISION	DATE	BY				



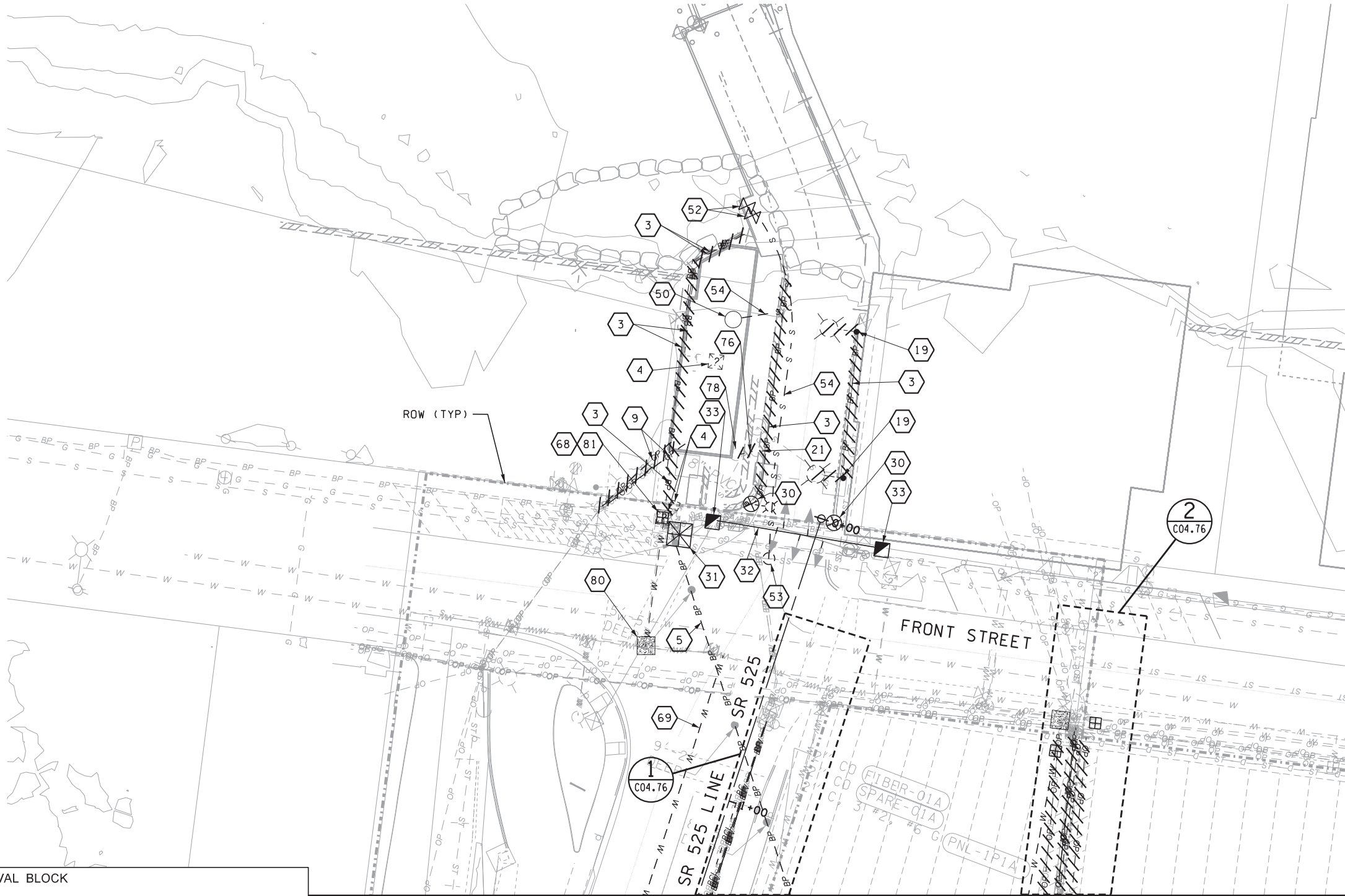
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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
UTILITY DEMOLITION PLAN

C04.66
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SHEETS



- NOTES:**
- 1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - 2. SEE SITE ELECTRICAL PLAN SHEETS FOR POLE RELOCATION.
 - 3. SEE SHEET C04.00 FOR UTILITY DEMOLITION ABBREVIATIONS AND LEGEND.
- CONSTRUCTION NOTES:**
- 3 SALVAGE EXISTING CONDUCTORS AND REMOVE EXISTING CONDUIT.
 - 4 REMOVE J-BOX.
 - 5 ABANDON EXISTING BURIED CONDUIT AND CONDUCTORS.
 - 9 EXISTING OVERHEAD CONDUCTORS TO BE REMOVED. COORDINATE WITH LOCAL SERVICE PROVIDERS AS NEEDED.
 - 19 REMOVE EXISTING LUMINAIRE.
 - 21 ADJUST EXISTING STORM DRAIN MH RIM TO NEW GRADE.
 - 30 REMOVE AND SALVAGE TRAFFIC SIGNAL POLES AND EQUIPMENT.
 - 31 REMOVE AND SALVAGE TRAFFIC SIGNAL CONTROLLER CABINET.
 - 32 ABANDON TRAFFIC SIGNAL CONDUIT.
 - 33 ABANDON TRAFFIC SIGNAL JUNCTION BOXES.
 - 50 REMOVE EXISTING SS MANHOLE.
 - 52 REMOVE SEWER VALVES.
 - 53 RECHANNEL EXISTING MANHOLE.
 - 54 ABANDON SANITARY SIDE SEWER, FILL WITH CDF.
 - 68 ABANDON WATER SERVICE. COORDINATE WITH MWWD. PLACE MWWD SUPPLIED DISC PLUG IN CORPORATION STOP WHERE MAIN IS TO REMAIN ACTIVE.
 - 69 EXISTING UTILITY HAS BEEN ABANDONED PER UTILITY OWNER.
 - 76 REMOVE STORM SEWER.
 - 78 REMOVE STORM SEWER STRUCTURE.
 - 80 PAVEMENT RESTORATION FOR PLACEMENT OF DISC PLUG IN CORPORATION STOP. SEE SPECIAL PROVISIONS "ABANDON WATER SERVICE".
 - 81 COORDINATE WITH MWWD. INSTALL 2" IP BRASS PLUG IN 2" GATE VALVE.

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater

Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review and revision, due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.

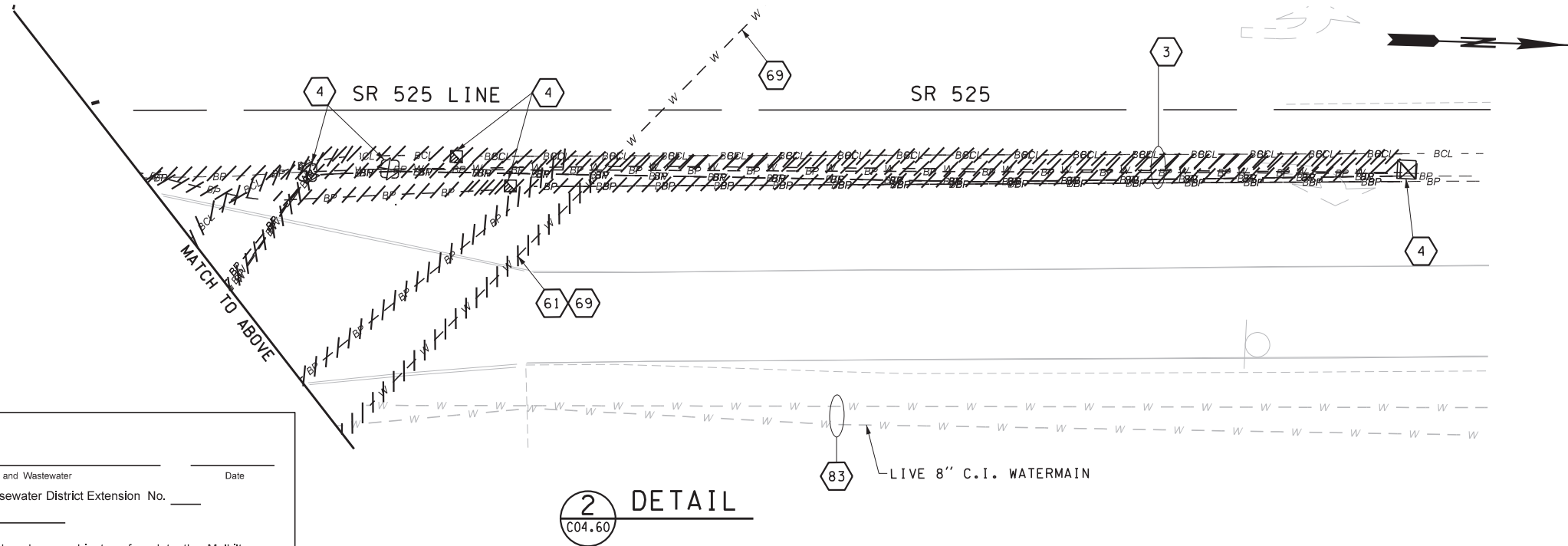
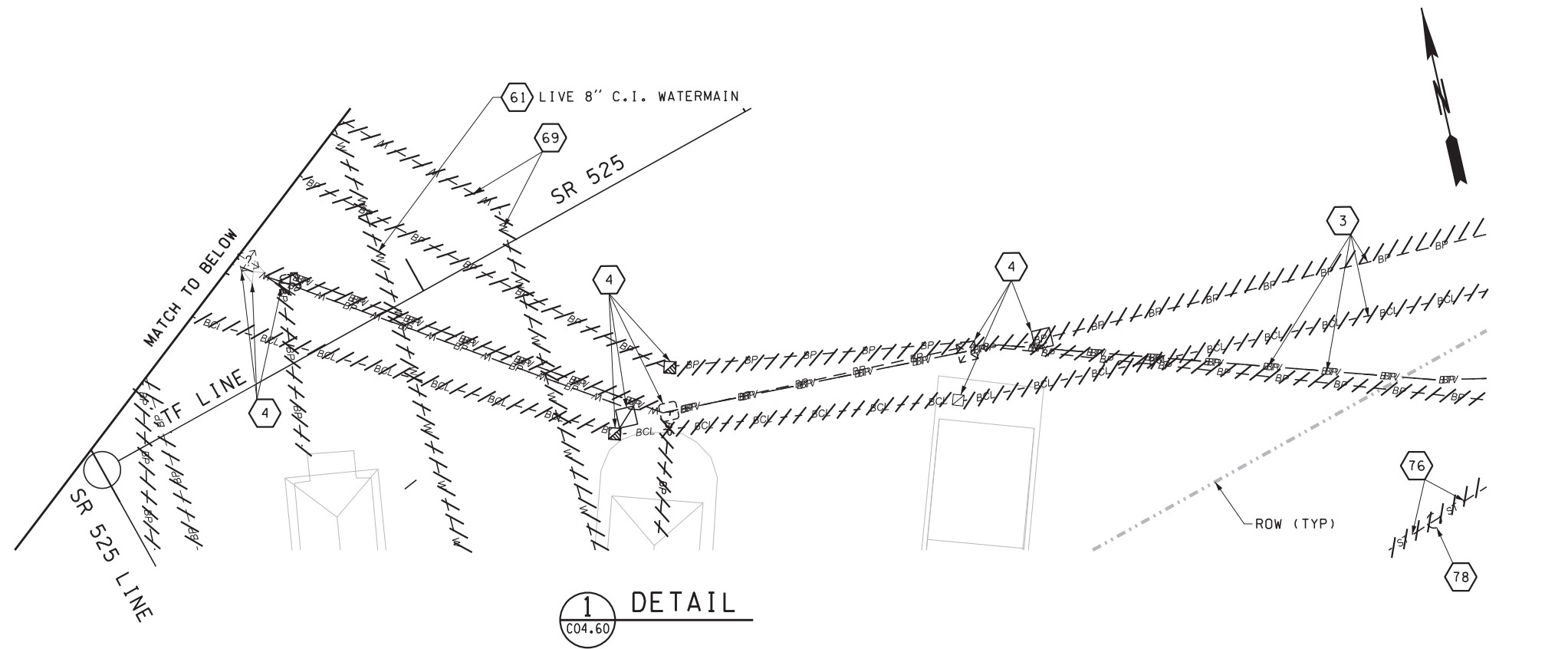
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PRINTED: 11:09:58 AM 8/21/2018	LAST PRINTED BY: danielji			FED.AID PROJ.NO. WA-2017-007-00
SUBMITTAL DATE: 08/23/18	DESIGNED BY: D. PERRY	8/21/2018		REGION NO. STATE 10 WASH
ENTERED BY: D. PERRY	CHECKED BY: R. LUDWIG	8/21/2018		JOB NUMBER 18W121
MAR PROJ ENGR: C. TORRES	DIR TERM ENGR: N. MCINTOSH			CONTRACT NO. 00****
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

UTILITY DEMOLITION PLAN

C04.67
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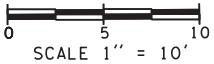
- NOTES:**
- 1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - 2. SEE SITE ELECTRICAL PLAN SHEETS FOR POLE RELOCATION.
 - 3. SEE SHEET C04.00 FOR UTILITY DEMOLITION ABBREVIATIONS AND LEGEND.
- CONSTRUCTION NOTES:**
- 3 SALVAGE EXISTING CONDUCTORS AND REMOVE EXISTING CONDUIT.
 - 4 REMOVE J-BOX.
 - 61 REMOVE EXISTING WATER LINE.
 - 69 EXISTING UTILITY HAS BEEN ABANDONED PER UTILITY OWNER.
 - 76 REMOVE STORM SEWER.
 - 78 REMOVE STORM SEWER STRUCTURE.
 - 83 MWWD AS-BUILT SHOWS ONLY ONE WATERMAIN. BASE MAP HAS TWO.

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater

Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review and revision, due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.



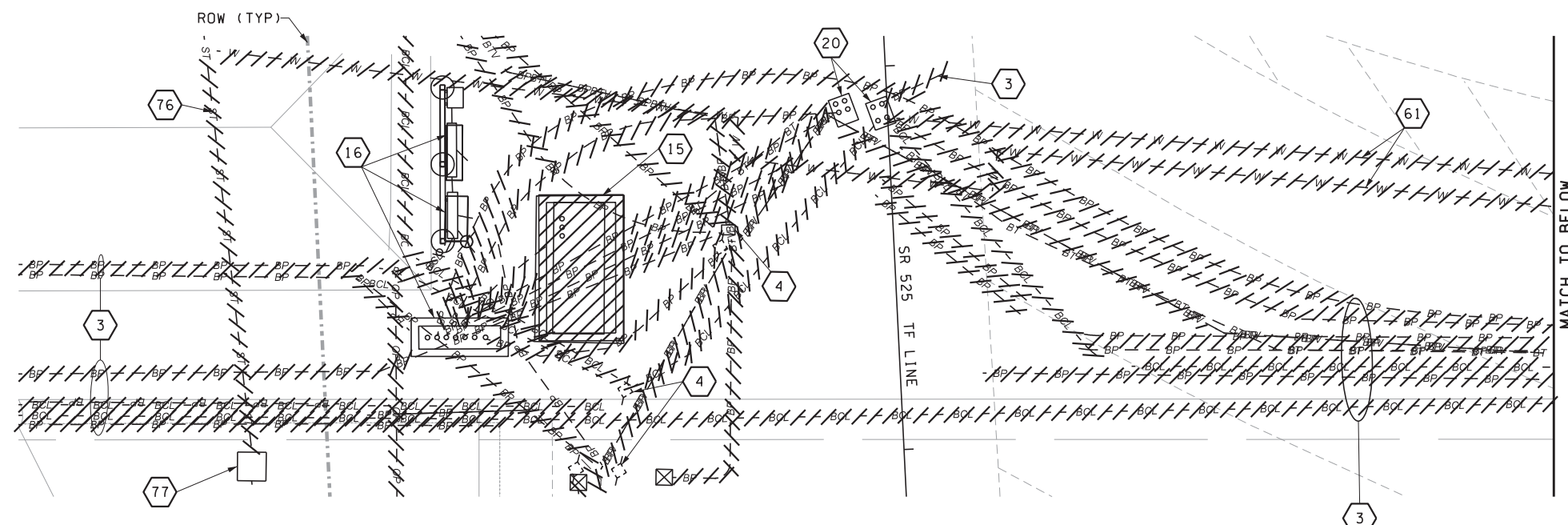
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SUBMITTAL DATE: 12/22/17				REGION NO. STATE 10 WASH
DESIGNED BY: D. PERRY	12/15/2017			JOB NUMBER 18W121
ENTERED BY: D. PERRY	12/15/2017			CONTRACT NO. 00*****
CHECKED BY: R. LUDWIG	12/15/2017			
MAR PROJ ENGR: C. TORRES				
DIR TERM ENGR: N. MCINTOSH				
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY



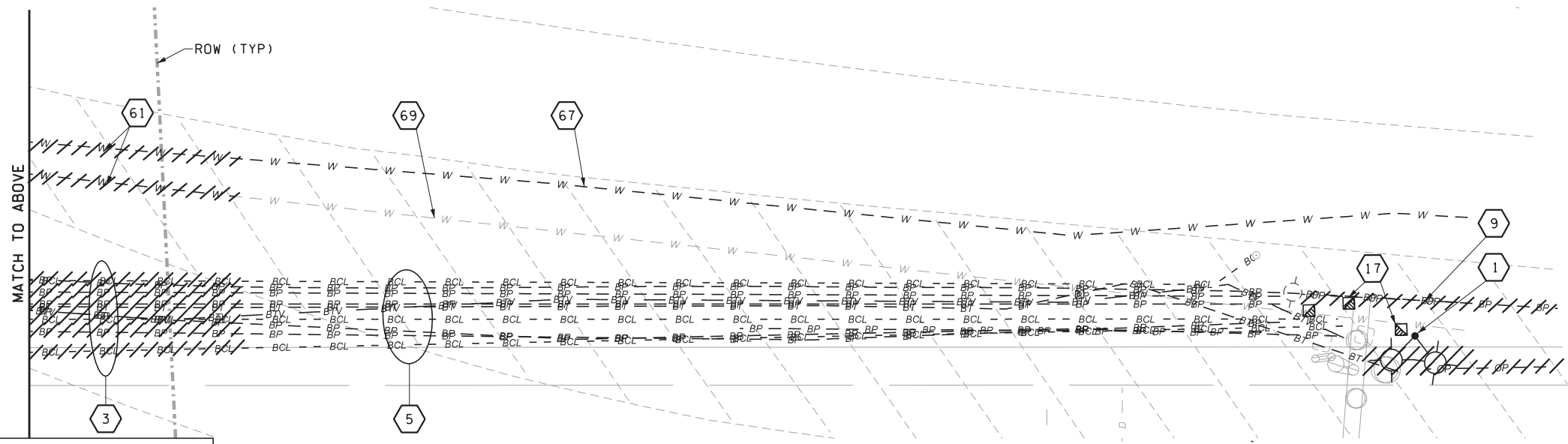
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

UTILITY DEMOLITION DETAIL PLANS

C04.70
SHEET 104 OF 1521 SHEETS



3
C04.60
DETAIL



4
C04.60
DETAIL



- NOTES:**
1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SITE ELECTRICAL PLAN SHEETS FOR POLE RELOCATION.
 3. SEE SHEET C04.00 FOR UTILITY DEMOLITION ABBREVIATIONS AND LEGEND.
- CONSTRUCTION NOTES:**
- 1 REMOVE EXISTING LIGHT POLE AND LUMINAIRE. RETURN TO OWNER PER STANDARD SPECIFICATIONS. PULL CONDUCTORS TO NEAREST J-BOX AND TERMINATE.
 - 3 SALVAGE EXISTING CONDUCTORS AND REMOVE EXISTING CONDUIT.
 - 4 REMOVE J-BOX.
 - 5 ABANDON EXISTING BURIED CONDUIT AND CONDUCTORS.
 - 9 EXISTING OVERHEAD CONDUCTORS TO BE REMOVED. COORDINATE WITH LOCAL SERVICE PROVIDERS AS NEEDED.
 - 15 GENERATOR TO BE REMOVED AND SALVAGED.
 - 16 TRANSFER SWITCH TO BE REMOVED AND SALVAGED.
 - 17 ABANDON J-BOX.
 - 20 REMOVE EXISTING UTILITY VAULT.
 - 61 REMOVE EXISTING WATER LINE.
 - 67 ABANDON WATER MAIN, SEE MWWO STD.
 - 69 EXISTING UTILITY HAS BEEN ABANDONED PER UTILITY OWNER.
 - 76 REMOVE STORM SEWER.
 - 77 ABANDON STORM SEWER STRUCTURE.

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater _____
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review and revision due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.

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DESIGNED BY: D. PERRY	8/21/2018			REGION NO. STATE
ENTERED BY: D. PERRY	8/21/2018			10 WASH
CHECKED BY: R. LUDWIG	8/21/2018			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00****
	REVISION	DATE	BY	



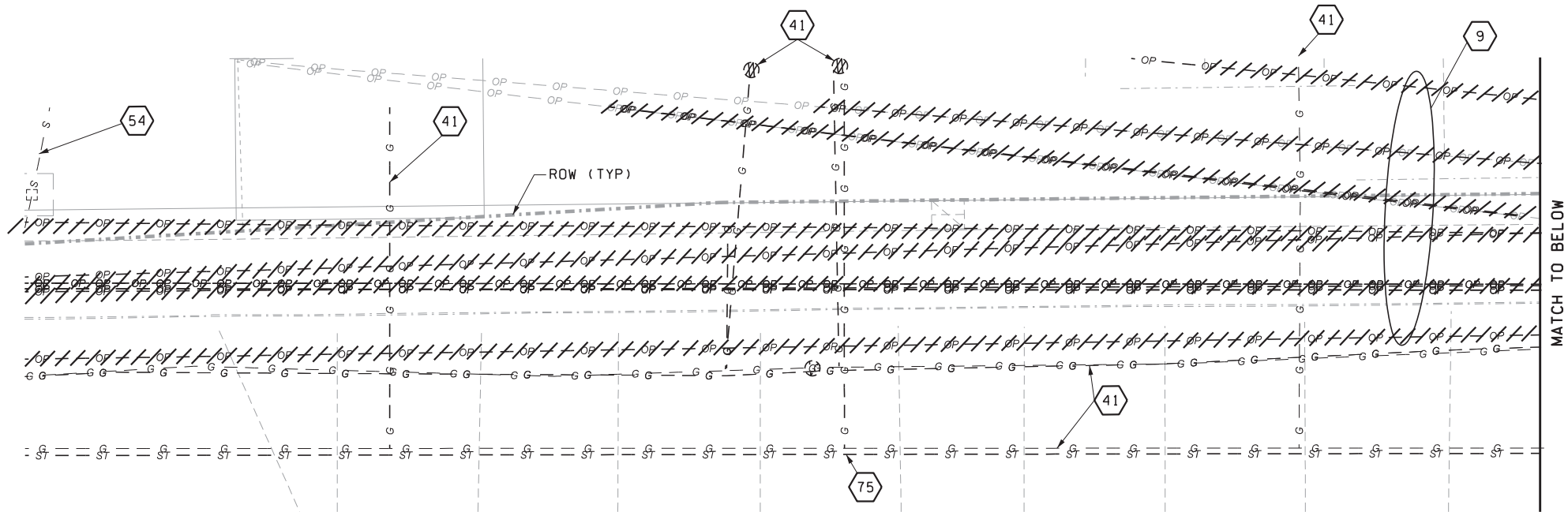
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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

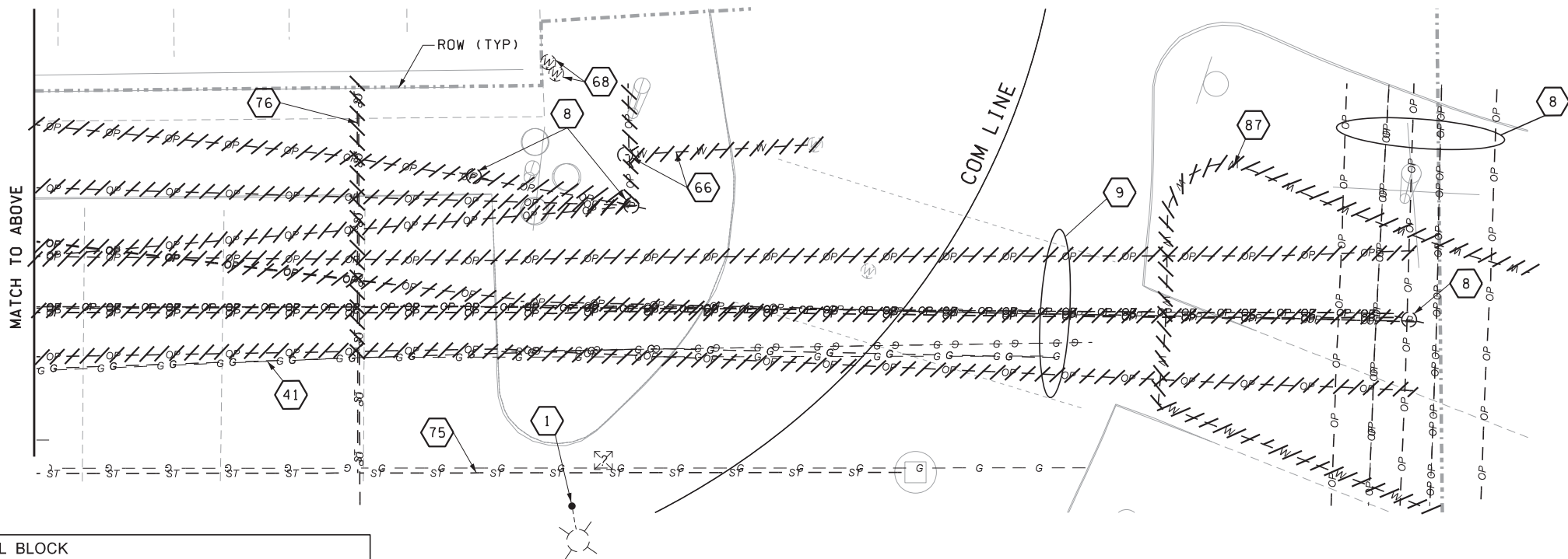
UTILITY DEMOLITION DETAIL PLANS

C04.71

SHEET
105
OF
1521
SHEETS



1 DETAIL
C04.61



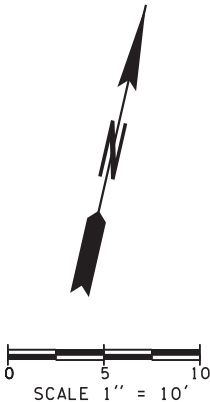
2 DETAIL
C04.61

NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. SEE SITE ELECTRICAL PLAN SHEETS FOR POLE RELOCATION.
3. SEE SHEET C04.00 FOR UTILITY DEMOLITION ABBREVIATIONS AND LEGEND.

CONSTRUCTION NOTES:

- 1 REMOVE EXISTING LIGHT POLE AND LUMINAIRE. RETURN TO OWNER PER STANDARD SPECIFICATIONS. PULL CONDUCTOR TO NEAREST J-BOX AND TERMINATE.
- 8 EXISTING POWER POLE AND OVERHEAD POWER LINES TO BE RELOCATED BY SNOPOD.
- 9 EXISTING OVERHEAD CONDUCTORS TO BE REMOVED. COORDINATE WITH LOCAL SERVICE PROVIDERS AS NEEDED.
- 41 GAS TO BE ABANDONED BY PSE.
- 54 ABANDON SANITARY SIDE SEWER, FILL WITH CDF
- 66 REMOVE EXIST FIRE HYDRANT, SPOOL, AND VALVE. PLACE BLIND FLANGE AND THRUST BLOCK AT TEE. COORDINATE MAIN SHUTDOWN WITH MWWD.
- 68 ABANDON WATER SERVICE. COORDINATE WITH MWWD. PLACE MWWD SUPPLIED DISC PLUG IN CORPORATION STOP WHERE MAIN IS TO REMAIN ACTIVE.
- 75 ABANDON STORM SEWER.
- 76 REMOVE STORM SEWER.
- 87 EXISTING IRRIGATION LINE TO BE REMOVED



APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review and revision, due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.

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SUBMITTAL DATE: 08/23/18

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MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY: daniejlj

8/21/2018

8/21/2018

8/21/2018

REVISION

DATE

BY

FED.AID
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

00*****



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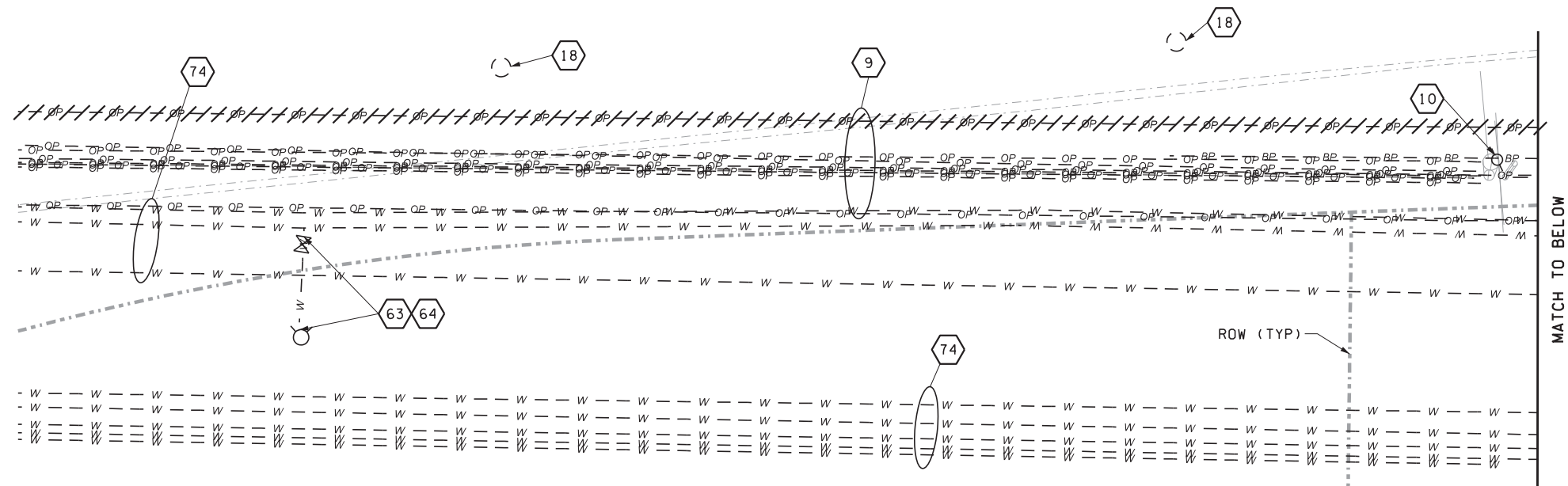
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

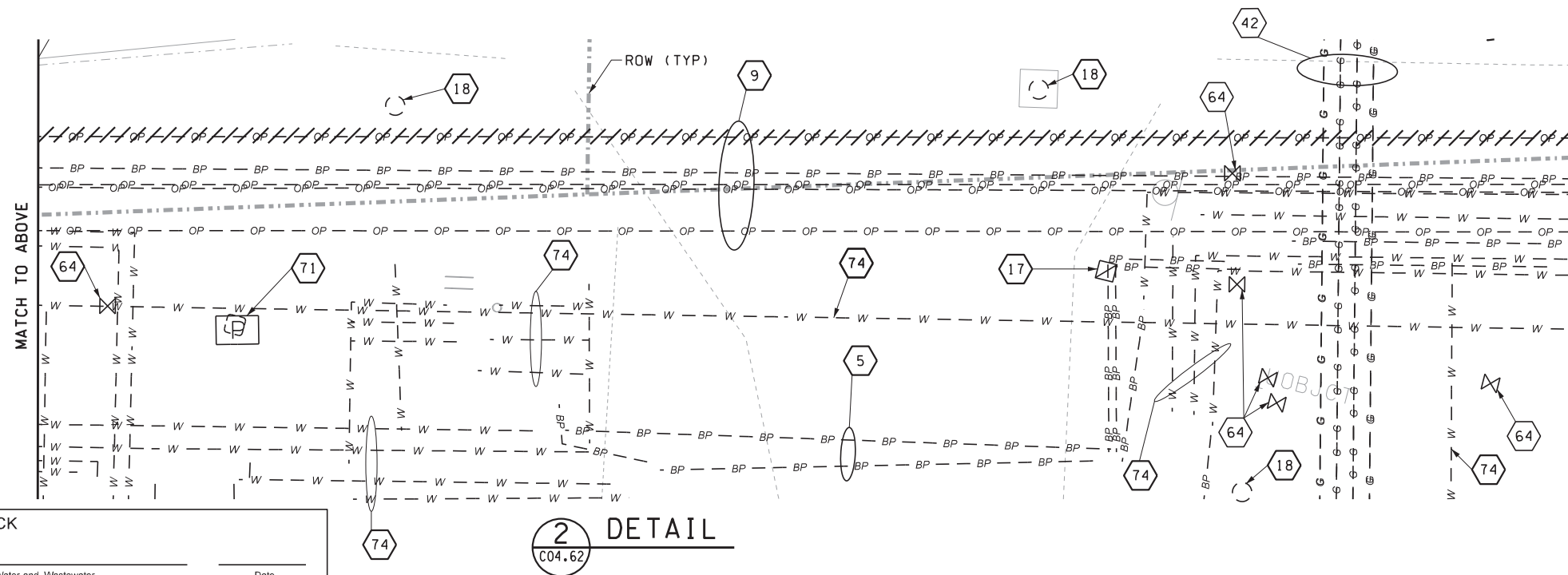
UTILITY DEMOLITION DETAIL PLANS

C04.72

SHEET
106
OF
1521
SHEETS



1 DETAIL
C04.62



2 DETAIL
C04.62

NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. SEE SITE ELECTRICAL PLAN SHEETS FOR POLE RELOCATION.
3. SEE SHEET C04.00 FOR UTILITY DEMOLITION ABBREVIATIONS AND LEGEND.

CONSTRUCTION NOTES:

- 5 ABANDON EXISTING BURIED CONDUIT AND CONDUCTORS.
- 9 EXISTING OVERHEAD CONDUCTORS TO BE REMOVED. COORDINATE WITH LOCAL SERVICE PROVIDERS AS NEEDED.
- 10 REMOVE AND DISCARD EXISTING POWER POLE.
- 17 ABANDON J-BOX.
- 18 ABANDON UTILITY VAULT.
- 42 FILL BELOW-GRADE LIQUID GAS PIPE WITH CDF.
- 63 REMOVE EXISTING FIRE HYDRANT.
- 64 REMOVE EXISTING VALVE. PLUG PIPE TO REMAIN.
- 71 ABANDON WATER UTILITY.
- 74 ABANDONED WATER LINE. FILL WITH CDF.

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review and revision, due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\JACOBS\14w121c04_73.dwg

PRINTED: 11:15:10 AM 8/21/2018

SUBMITTAL DATE: 08/23/18

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MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY: danielji

8/21/2018

8/21/2018

8/21/2018

REVISION

DATE

BY

FED.AID
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER
18W121

CONTRACT NO.
00*****



JACOBS



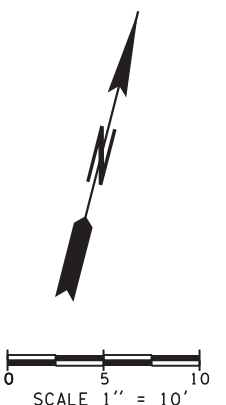
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

UTILITY DEMOLITION DETAIL PLANS

C04.73

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OF
1521
SHEETS





1 DETAIL
C04.63



2 DETAIL
C04.63

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to cancellation and the developer will be liable for any damages, due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.

BY

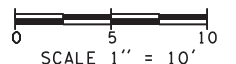
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REGION NO.	STATE
10	WASH
JOB NUMBER 18W121	
CONTRACT NO. 00****	

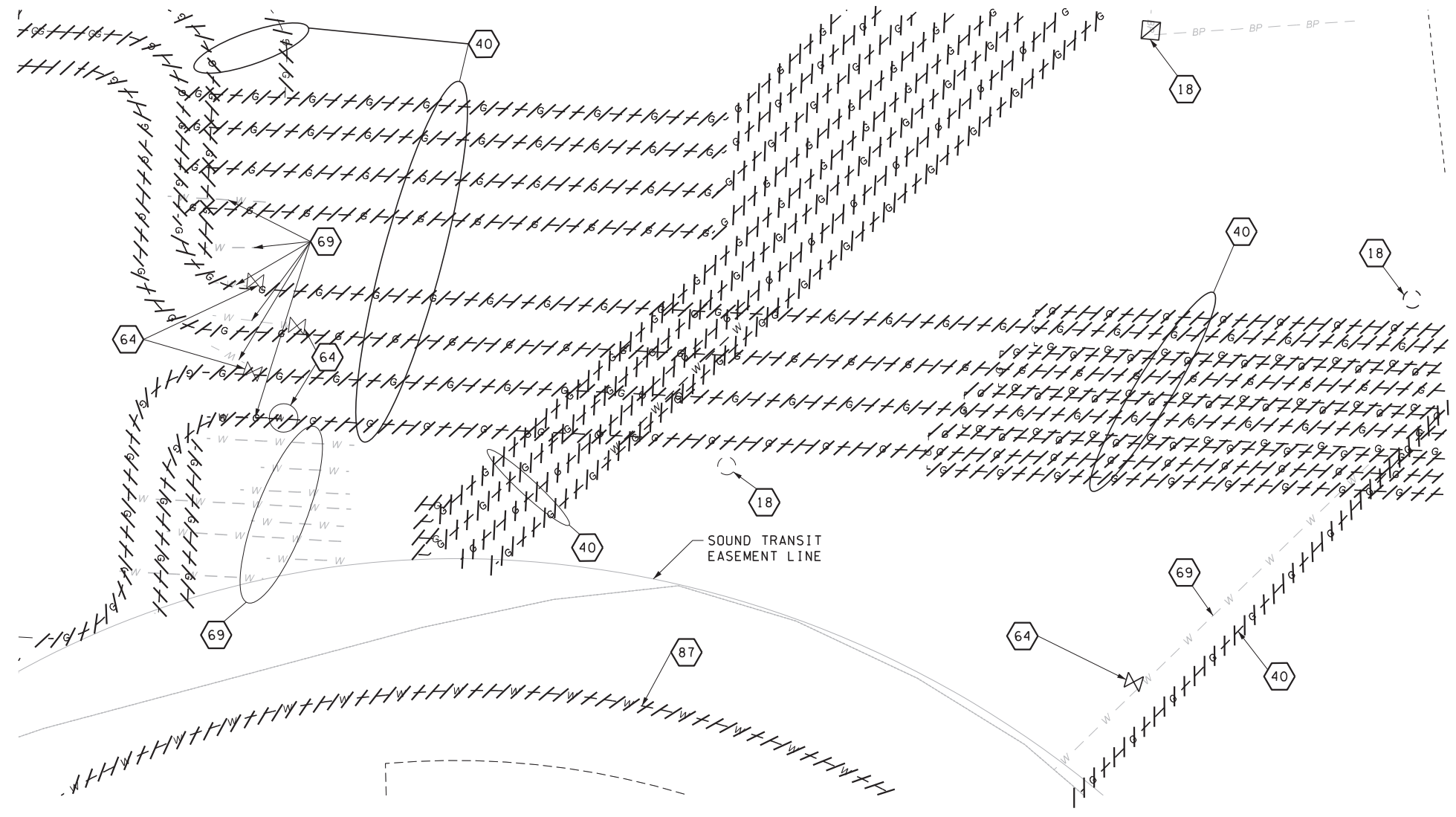


**Washington State
Department of Transportation
WASHINGTON STATE FERRIES**

1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. SEE SITE ELECTRICAL PLAN SHEETS FOR POLE RELOCATION.
3. SEE SHEET C04.00 FOR UTILITY DEMOLITION ABBREVIATIONS AND LEGEND.

- 9 EXISTING OVERHEAD CONDUCTORS TO BE REMOVED.
COORDINATE WITH LOCAL SERVICE PROVIDERS AS NEEDED.
- 10 REMOVE AND DISCARD EXISTING POWER POLE.
- 12 REMOVE AND DISCARD EXISTING ELECTRICAL BOX.
- 18 ABANDON UTILITY VAULT.
- 19 REMOVE EXISTING LUMINAIRE.
- 40 REMOVE BELOW-GRADE ABANDONED LIQUID GAS PIPE.
- 64 REMOVE EXISTING VALVE. PLUG PIPE TO REMAIN.
- 69 EXISTING UTILITY HAS BEEN ABANDONED PER UTILITY OWNER.





3 DETAIL
C04.63

- NOTES:**
1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE SITE ELECTRICAL PLAN SHEETS FOR POLE RELOCATION.
 3. SEE SHEET C04.00 FOR UTILITY DEMOLITION ABBREVIATIONS AND LEGEND.

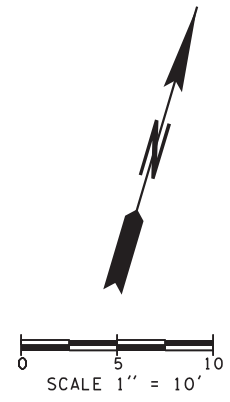
- CONSTRUCTION NOTES:**
- 18 ABANDON UTILITY VAULT.
 - 40 REMOVE BELOW-GRADE ABANDONED LIQUID GAS PIPE.
 - 64 REMOVE EXISTING VALVE. PLUG PIPE TO REMAIN.
 - 69 EXISTING UTILITY HAS BEEN ABANDONED PER UTILITY OWNER.
 - 87 EXISTING IRRIGATION LINE TO BE REMOVED.

APPROVAL BLOCK

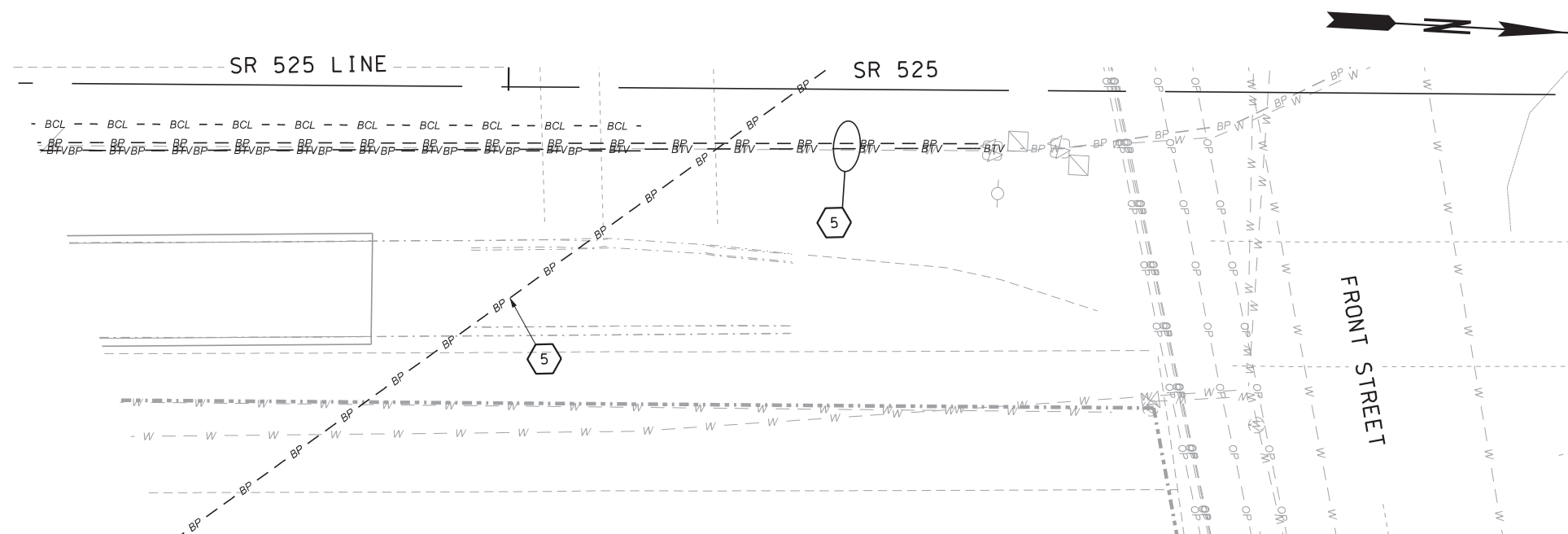
Approved by _____ Date _____
Mukilteo Water and Wastewater

Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

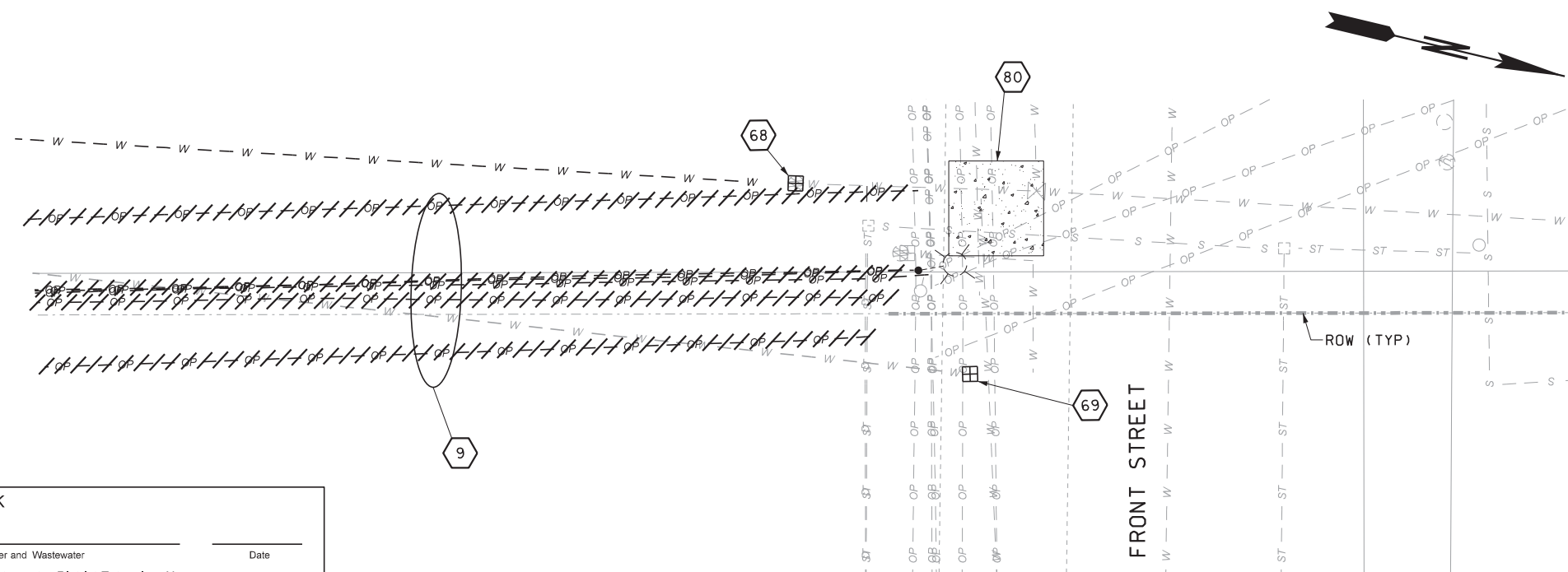
Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review and revision, due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121c04_75.dlv					JACOBS		SR 525		C04.75
PRINTED: 1:03:30 PM 12/15/2017	LAST PRINTED BY:				FED.AID PROJ.NO.			MUKILTEO FERRY TERMINAL (PHASE 2)	
SUBMITTAL DATE: 12/22/17	ConradCS				WA-2017-007-00			FERRY TERMINAL CONSTRUCTION	
DESIGNED BY: D. PERRY	12/15/2017				REGION NO. STATE	10 WASH	Washington State Department of Transportation WASHINGTON STATE FERRIES	109	
ENTERED BY: D. PERRY	12/15/2017							OF	
CHECKED BY: R. LUDWIG	12/15/2017				JOB NUMBER	18W121		1521	
MAR PROJ ENGR: C. TORRES					CONTRACT NO.			UTILITY DEMOLITION DETAIL PLAN	SHEETS
DIR TERM ENGR: N. MCINTOSH					00****				
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY					



1 DETAIL
C04.67



2 DETAIL
C04.67

0 5 10
SCALE 1" = 10'

NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. SEE SITE ELECTRICAL PLAN SHEETS FOR POLE RELOCATION.
3. SEE SHEET C04.00 FOR UTILITY DEMOLITION ABBREVIATIONS AND LEGEND.

CONSTRUCTION NOTES:

- 5 ABANDON EXISTING BURIED CONDUIT AND CONDUCTORS.
- 9 EXISTING OVERHEAD CONDUCTORS TO BE REMOVED. COORDINATE WITH LOCAL SERVICE PROVIDERS AS NEEDED.
- 68 ABANDON WATER SERVICE. COORDINATE WITH MWW. PLACE MWW SUPPLIED DISC PLUG IN CORPORATION STOP WHERE MAIN IS TO REMAIN ACTIVE.
- 69 EXISTING UTILITY HAS BEEN ABANDONED PER UTILITY OWNER.
- 80 PAVEMENT RESTORATION FOR PLACEMENT OF DISC PLUG IN CORPORATION STOP. SEE SPECIAL PROVISIONS "ABANDON WATER SERVICE".

APPROVAL BLOCK

Approved by _____ Date _____

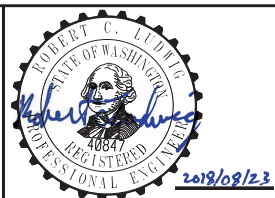
Mukilteo Water and Wastewater

Mukilteo Water and Wastewater District Extension No. _____

Gray & Osborne No. _____

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review and revision, due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c04_76.dwg					
PRINTED: 11:17:21 AM 8/21/2018	LAST PRINTED BY: danielji				FED.AID PROJ.NO.
SUBMITTAL DATE: 08/23/18					WA-2017-007-00
DESIGNED BY: D. PERRY	8/21/2018				REGION NO. STATE
ENTERED BY: D. PERRY	8/21/2018				10 WASH
CHECKED BY: R. LUDWIG	8/21/2018				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00****
	REVISION	DATE	BY		



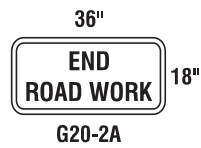
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

UTILITY DEMOLITION DETAIL PLANS

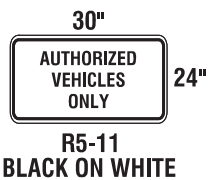
C04.76
SHEET
110
OF
1521
SHEETS



1



2



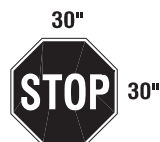
3

HAUL ROUTE SIGN,
PROTECT EXISTING
SIGN INSTALLED IN
PREVIOUS PROJECT.
SEE SPECIAL
PROVISIONS



4

HAUL ROUTE SIGN,
PROTECT EXISTING
SIGN INSTALLED IN
PREVIOUS PROJECT.
SEE SPECIAL
PROVISIONS



5

HAUL ROUTE SIGN,
PROTECT EXISTING
SIGN INSTALLED IN
PREVIOUS PROJECT.
SEE SPECIAL
PROVISIONS



6

HAUL ROUTE SIGN,
PROTECT EXISTING
SIGN INSTALLED IN
PREVIOUS PROJECT.
SEE SPECIAL
PROVISIONS



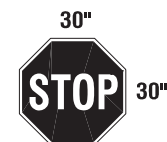
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HAUL ROUTE SIGN



8

HAUL ROUTE SIGN

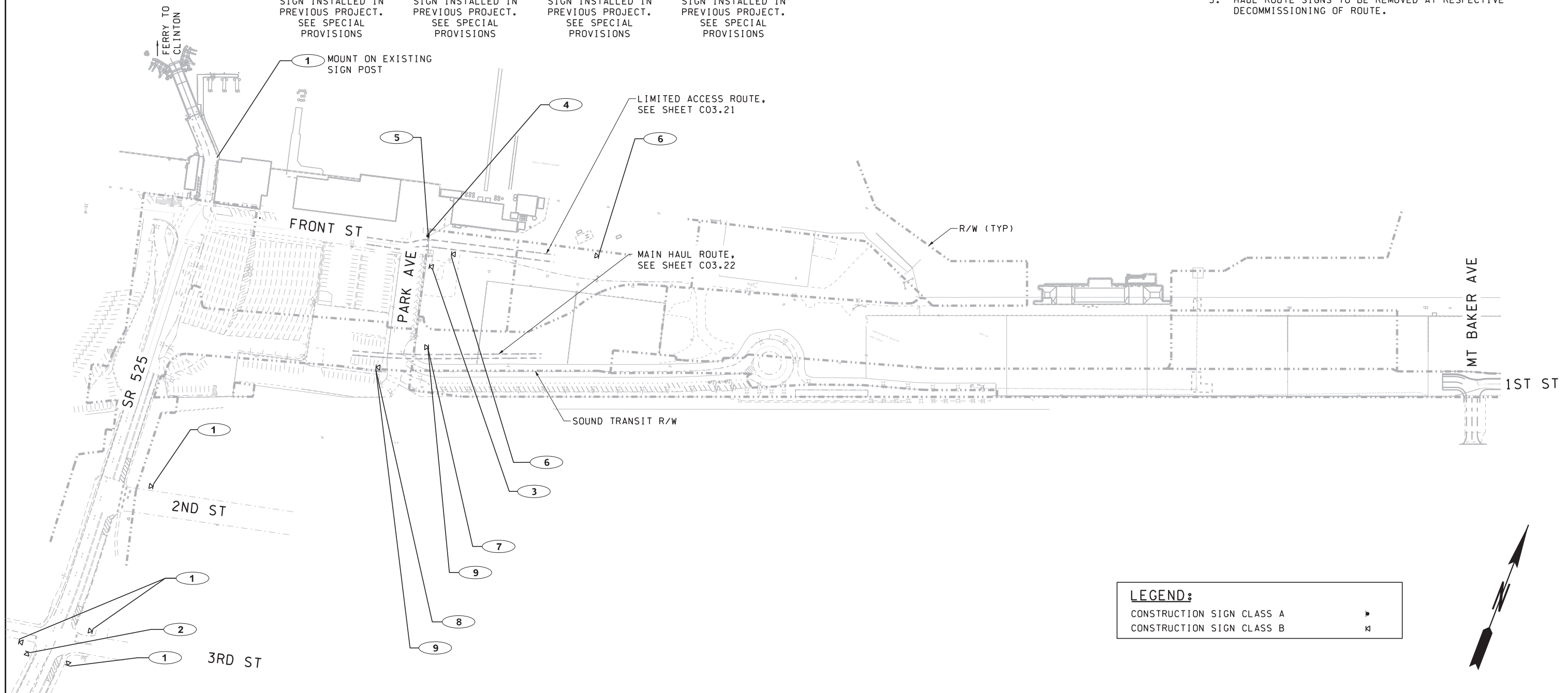


9

HAUL ROUTE SIGN

NOTES:

- SIGN LOCATIONS ARE APPROXIMATE PER FIELD CONDITIONS.
- SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
- NOT ALL UTILITIES ARE SHOWN.
- SPEED LIMIT SIGN IS PROVIDED BY WSF AND SHALL BE POSTED AND MAINTAINED BY THE CONTRACTOR. SEE SPECIAL PROVISIONS.
- HAUL ROUTE SIGNS TO BE REMOVED AT RESPECTIVE DECOMMISSIONING OF ROUTE.



LEGEND:

CONSTRUCTION SIGN CLASS A
CONSTRUCTION SIGN CLASS B

0 100 200
SCALE 1" = 200'

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c05-00.dwg

PRINTED: 11:44:58 AM 2/22/2018

SUBMITTAL DATE: 12/22/17

DESIGNED BY: A. WARDHANA

ENTERED BY: K. THOMAS

CHECKED BY: J. TAYLOR

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

DATE

BY

REVISION

DATE

BY

REVISION

DATE

BY

FED.AID
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

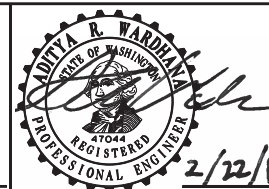
10 WASH

JOB NUMBER

18W121

CONTRACT NO.

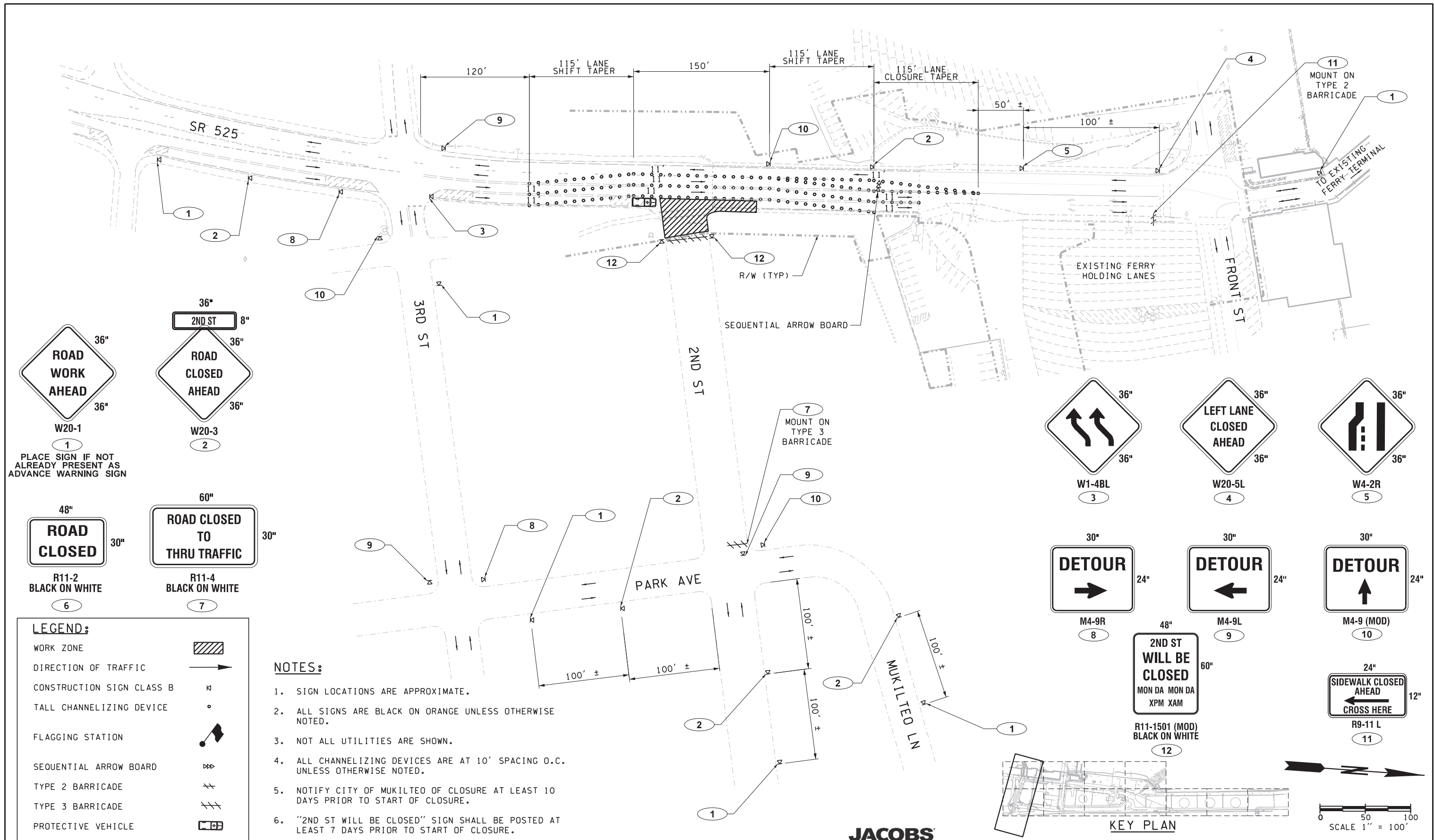
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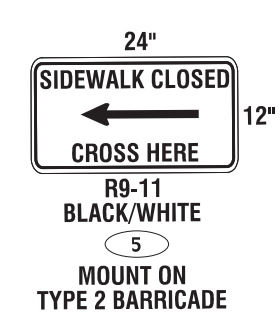
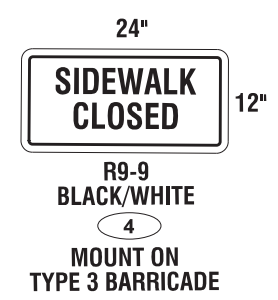
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
MAINTENANCE OF TRAFFIC
ADVANCE SIGNING

C05.00

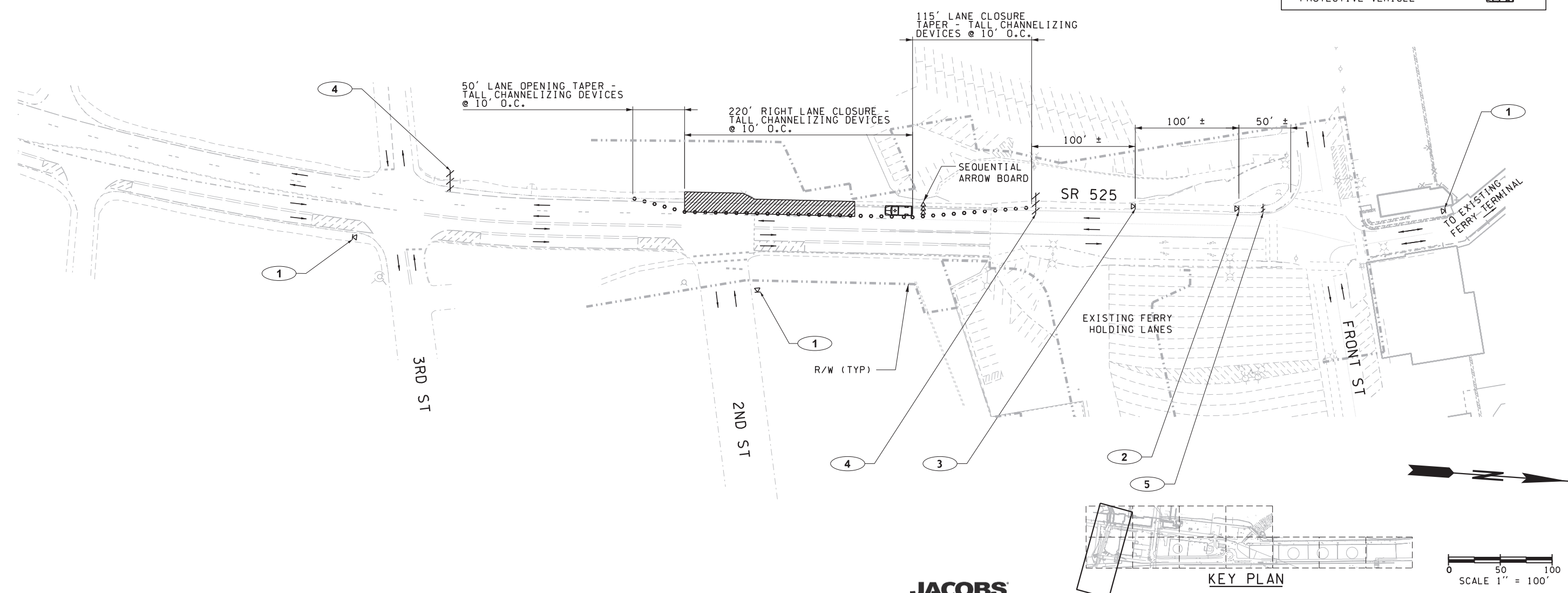
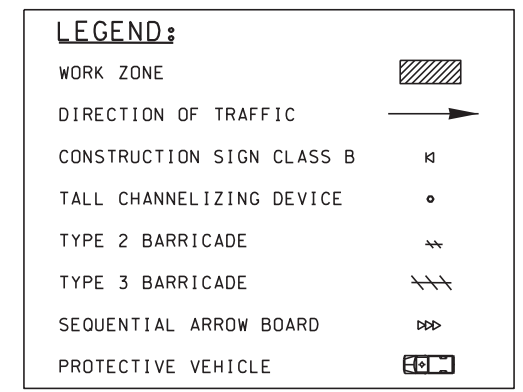
SHEET
111
OF
1521
SHEETS



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOB\14w121c05_01.dwg				FED.AID PROJ.NO.				SR 525				C05.01	
PRINTED: 10:27:26 AM 12/15/2017				WA-2017-007-00				MUKILTEO FERRY TERMINAL (PHASE 2)				SHEET	
SUBMITTAL DATE: 12/22/17				REGION NO. STATE				FERRY TERMINAL CONSTRUCTION				112	
DESIGNED BY: A. WARDHANA				JOB NUMBER				TRAFFIC CONTROL PLAN - EAST				OF	
ENTERED BY: A. MAIMONE				CONTRACT NO.				TEMPORARY CURB RAMP WORK AREA				1521	
CHECKED BY: J. TAYLOR				REVISION								SHEETS	
MAR PROJ ENGR: C. TORRES				DATE									
DIR TERM ENGR: N. MCINTOSH				BY									
ASST SECRETARY: A. SCARTON													



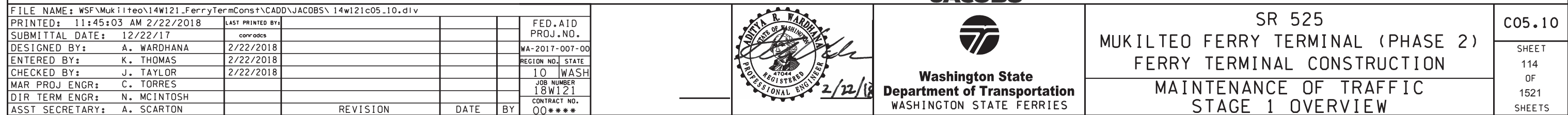
- NOTES:
1. SIGN LOCATIONS ARE APPROXIMATE.
 2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
 3. NOT ALL UTILITIES ARE SHOWN.

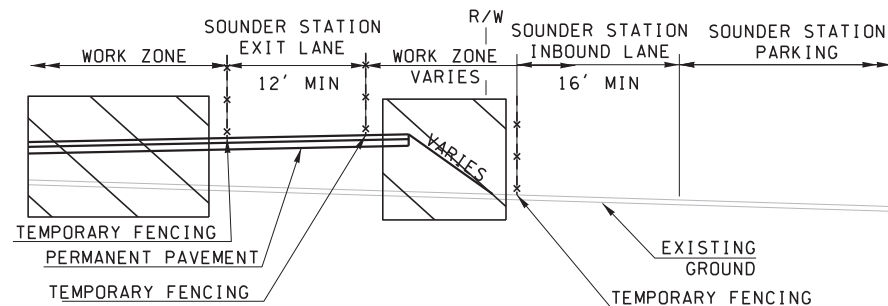


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PRINTED: 7:36:38 AM 8/21/2018	LAST PRINTED BY:				FED.AID PROJ.NO.	MUKILTEO FERRY TERMINAL (PHASE 2)		SHEET	
SUBMITTAL DATE: 08/23/18	conradcs				WA-2017-007-00	FERRY TERMINAL CONSTRUCTION		113	
DESIGNED BY: A. WARDHANA	8/21/2018				REGION NO. STATE	TRAFFIC CONTROL PLAN - WEST		OF	
ENTERED BY: A. MAIMONE	8/21/2018				10 WASH			1521	
CHECKED BY: J. TAYLOR	8/21/2018				JOB NUMBER 18W121	TEMPORARY CURB RAMP WORK AREA		SHEETS	
MAR PROJ ENGR: C. TORRES					CONTRACT NO. 00****				
DIR TERM ENGR: N. MCINTOSH									
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY					

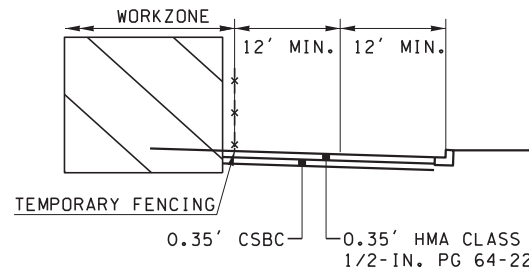
NOTES:

1. ROUTES SHOWN ARE FOR VEHICLES, BICYCLES, AND PEDESTRIANS HEADING NORTHBOUND ON SR525.
2. NOT ALL UTILITIES ARE SHOWN.
3. SEE C06.10 THROUGH C06.16 FOR ALIGNMENT INFORMATION.
4. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
5. PEDESTRIANS MUST BE ESCORTED THROUGH HAUL ROUTE DURING HAULING OPERATIONS.
6. CONTRACTOR TO OBTAIN PROPERTY RIGHTS FROM SOUND TRANSIT PRIOR TO CONSTRUCTING ON SOUND TRANSIT EASEMENTS OR RIGHT OF WAY. SEE SPECIAL PROVISIONS.

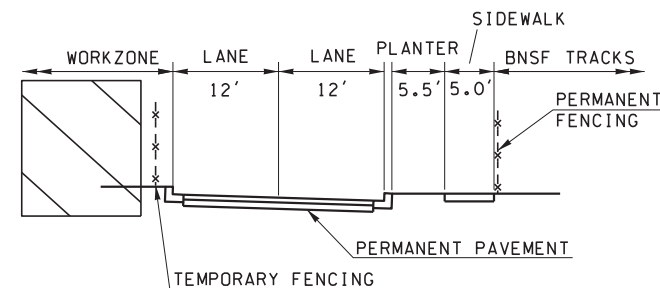




A TYPICAL SECTION
N.T.S.



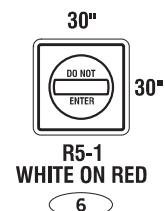
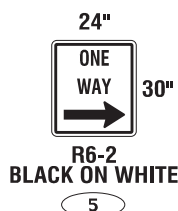
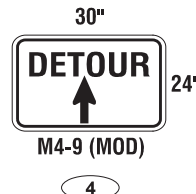
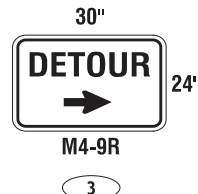
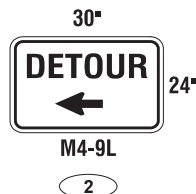
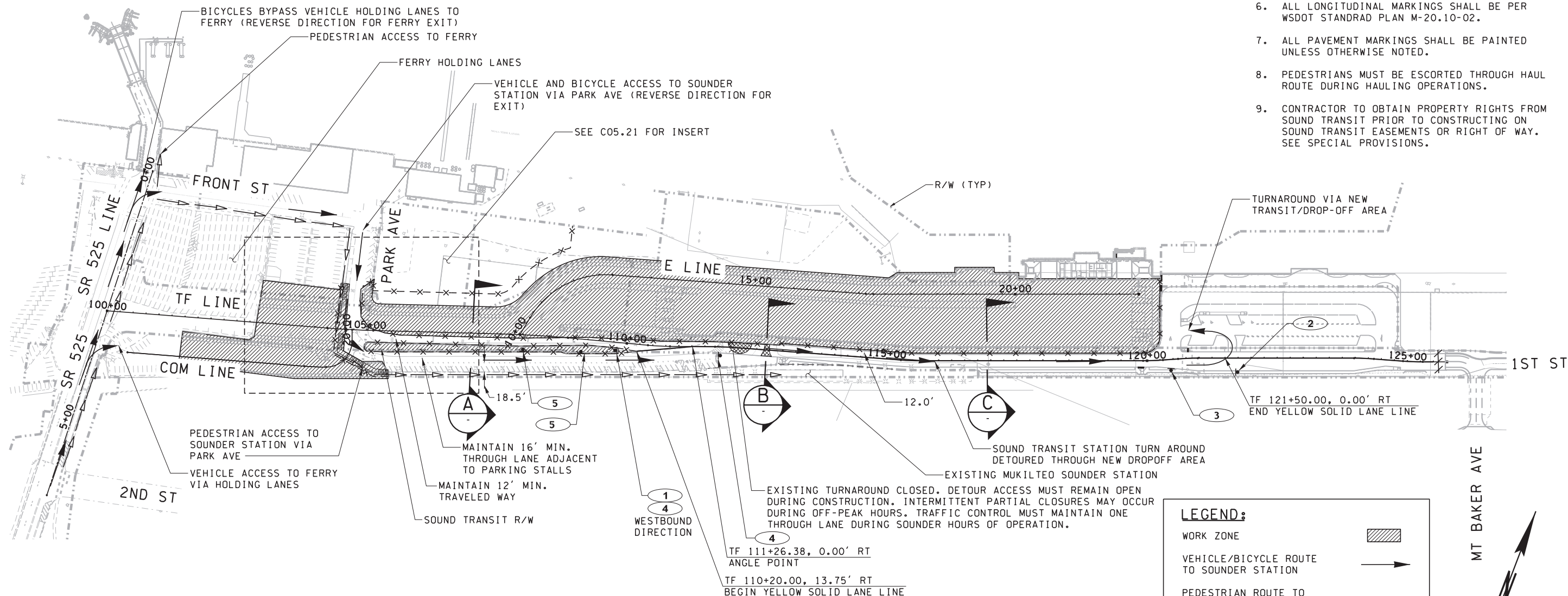
B TYPICAL SECTION
N.T.S.



C TYPICAL SECTION
N.T.S.

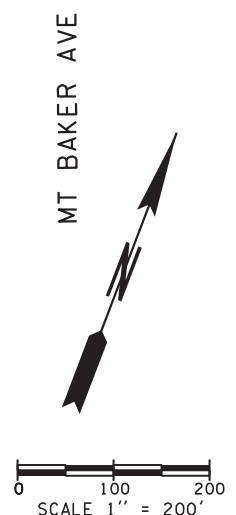
NOTES:

1. ROUTES SHOWN ARE FOR VEHICLES, BICYCLES, AND PEDESTRIANS HEADING NORTHBOUND ON SR525.
2. NOT ALL UTILITIES ARE SHOWN.
3. SEE C06.10 THROUGH C06.16 FOR ALIGNMENT HORIZONTAL CONTROLS.
4. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
5. INSTALL SIGNING IN ACCORDANCE WITH WSDOT STANDARD PLAN K-80.10-01.
6. ALL LONGITUDINAL MARKINGS SHALL BE PER WSDOT STANDRAD PLAN M-20.10-02.
7. ALL PAVEMENT MARKINGS SHALL BE PAINTED UNLESS OTHERWISE NOTED.
8. PEDESTRIANS MUST BE ESCORTED THROUGH HAUL ROUTE DURING HAULING OPERATIONS.
9. CONTRACTOR TO OBTAIN PROPERTY RIGHTS FROM SOUND TRANSIT PRIOR TO CONSTRUCTING ON SOUND TRANSIT EASEMENTS OR RIGHT OF WAY. SEE SPECIAL PROVISIONS.



LEGEND:

- WORK ZONE
- VEHICLE/BICYCLE ROUTE TO SOUNDER STATION
- PEDESTRIAN ROUTE TO SOUNDER STATION
- TEMPORARY FENCING
- CONCRETE BARRIER TYPE 2
- CONSTRUCTION SIGN CLASS A
- TEMPORARY PAVEMENT
- TYPE 3 BARRICADE



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c05_20.dwg

PRINTED: 11:45:10 AM 2/22/2018

SUBMITTAL DATE: 12/22/17

DESIGNED BY: A. WARDHANA

ENTERED BY: K. THOMAS

CHECKED BY: J. TAYLOR

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

CONTRACT NO.

2/22/2018

2/22/2018

2/22/2018

REVISION

DATE

BY

FED.AID
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

00*****



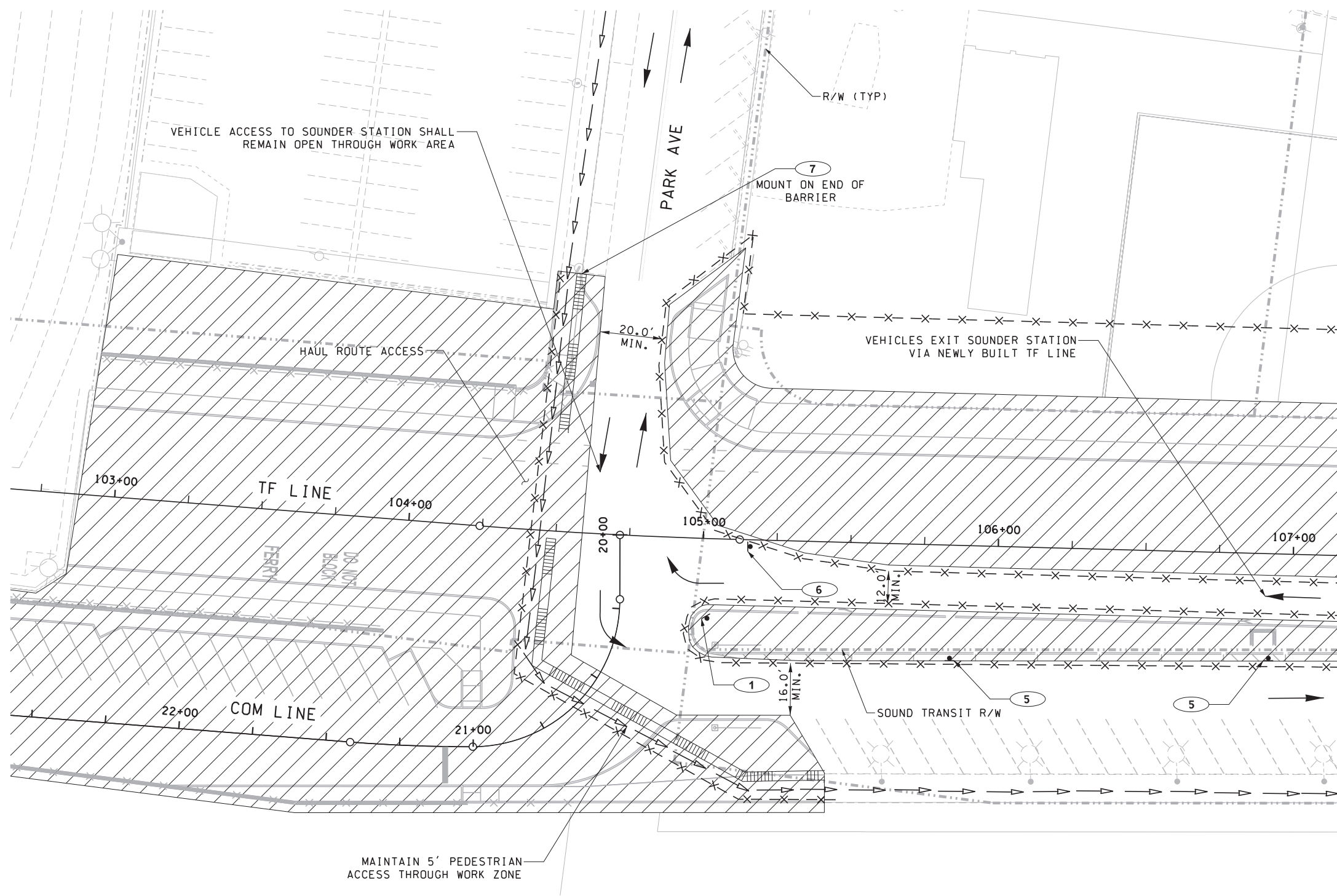
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
MAINTENANCE OF TRAFFIC
STAGE 2 OVERVIEW

C05.20

SHEET
115
OF
1521
SHEETS

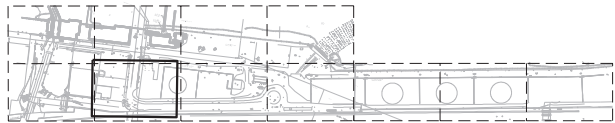
GENERAL NOTES:

1. SEE C05.20 FOR NOTES AND SIGN DETAILS.

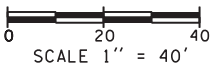


LEGEND:

WORK ZONE	
DIRECTION OF TRAVEL	
PEDESTRIAN ROUTE	
TEMPORARY FENCING	
CONCRETE BARRIER TYPE 2	
CONSTRUCTION SIGN	



KEY PLAN



JACOBS



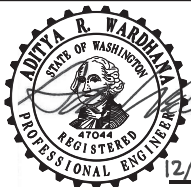
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
MAINTENANCE OF TRAFFIC
STAGE 2 DETAIL

C05.21

SHEET
116
OF
1521
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c05_21.dwg					FED.AID PROJ.NO.		
PRINTED: 10:27:50 AM 12/15/2017					WA-2017-007-00		
SUBMITTAL DATE: 12/22/17					REGION NO. STATE		
DESIGNED BY: A. WARDHANA					10 WASH		
ENTERED BY: K. THOMAS					JOB NUMBER		
CHECKED BY: J. TAYLOR					18W121		
MAR PROJ ENGR: C. TORRES					CONTRACT NO.		
DIR TERM ENGR: N. MCINTOSH					00****		
ASST SECRETARY: A. SCARTON					REVISION	DATE	BY





SPECIAL

1



SPECIAL

2



R11-2
BLACK/WHITE

3

MOUNT ON
TYPE 3 BARRICADE



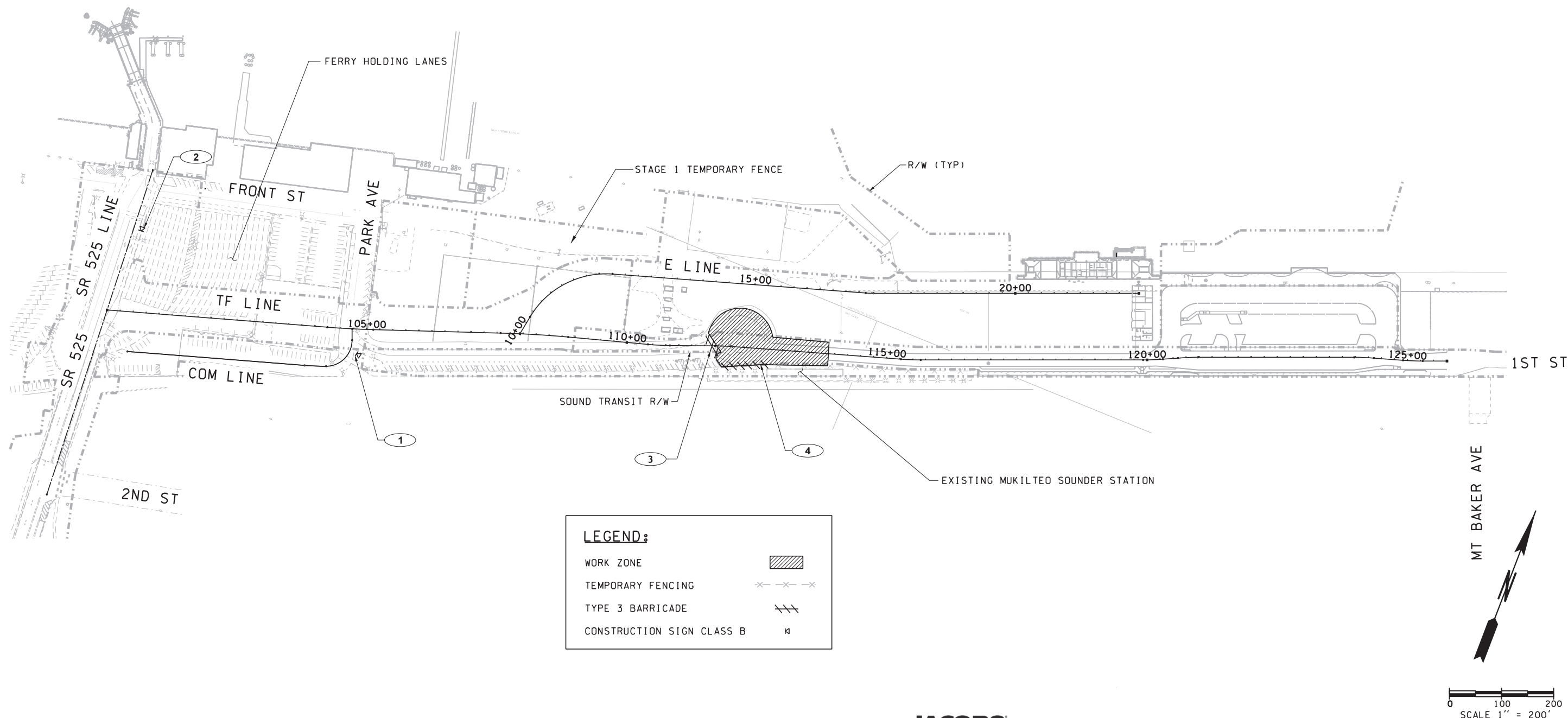
R9-9
BLACK/WHITE

4

MOUNT ON
TYPE 3 BARRICADE

NOTES:

1. SIGN LOCATIONS ARE APPROXIMATE.
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
3. NOT ALL UTILITIES ARE SHOWN.
4. CONTRACTOR TO OBTAIN PROPERTY RIGHTS FROM SOUND TRANSIT PRIOR TO CONSTRUCTING ON SOUND TRANSIT EASEMENTS OR RIGHT OF WAY. SEE SPECIAL PROVISIONS.



LEGEND:

WORK ZONE	
TEMPORARY FENCING	
TYPE 3 BARRICADE	
CONSTRUCTION SIGN CLASS B	

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c05_22.dwg

PRINTED: 11:45:14 AM 2/22/2018

SUBMITTAL DATE: 12/22/17

DESIGNED BY: A. WARDHANA

ENTERED BY: K. THOMAS

CHECKED BY: J. TAYLOR

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

DATE

BY

REVISION

DATE

BY

REVISION

DATE

BY

REVISION

DATE

BY

FED.AID
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

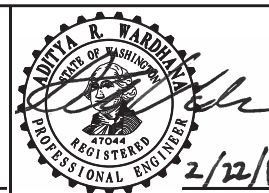
10 WASH

JOB NUMBER

18W121

CONTRACT NO.

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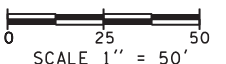


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TRAFFIC CONTROL PLAN -
TURNAROUND WORK AREA

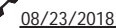
C05.22

SHEET
117
OF
1521
SHEETS

1. SEE SHEET C05.30 FOR NOTES AND SIGN DETAILS.
2. INSTALL PARKING SPACE MARKINGS PER DETAILS ON THIS SHEET. ALL PARKING SPACE MARKINGS SHALL BE WHITE.



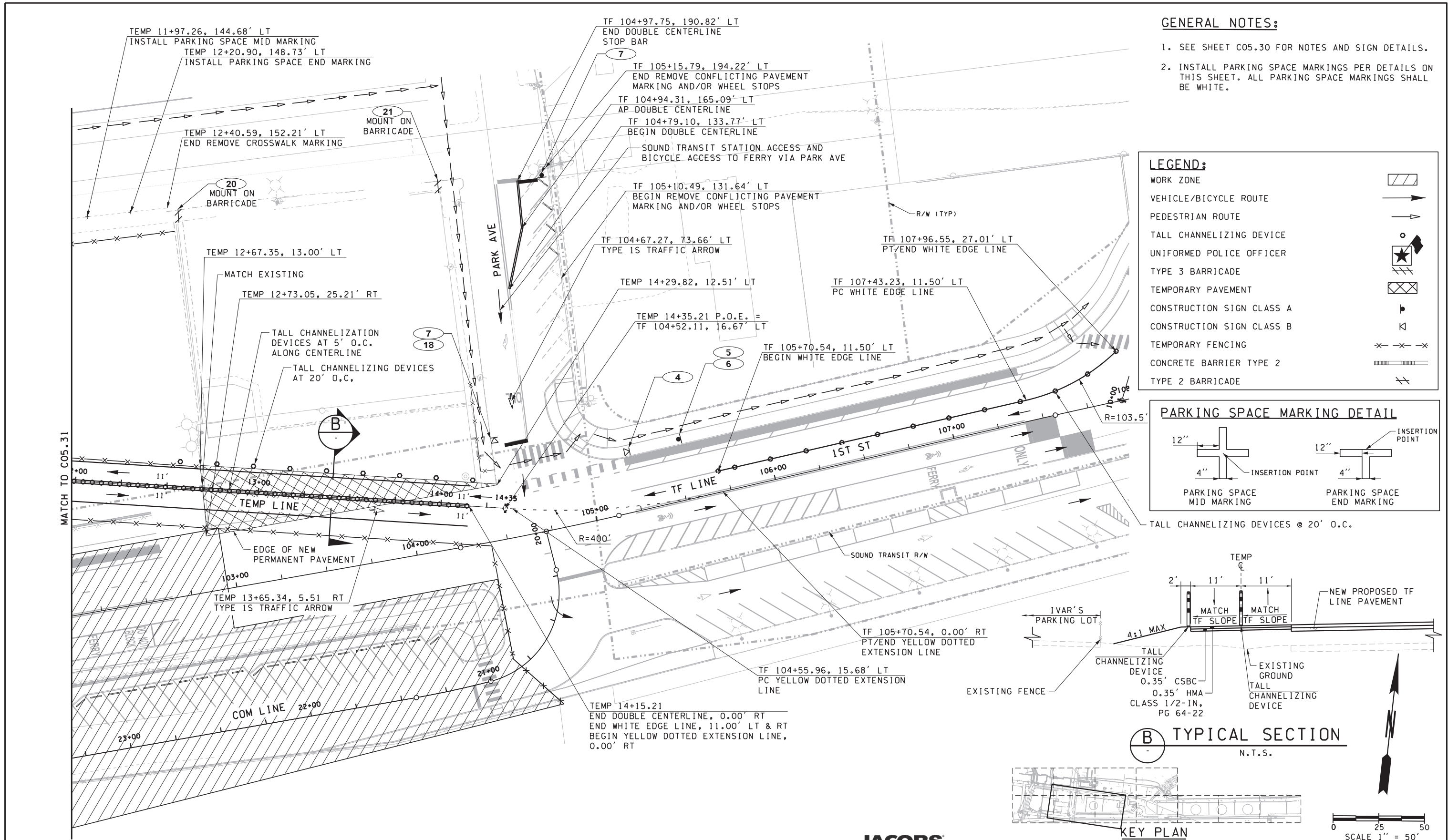
FED.AID PROJ.NO.	
WA-2017-007-00	
REGION NO.	STATE
10	WASH
JOB NUMBER 18W121	
CONTRACT NO. 00****	



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
MAINTENANCE OF TRAFFIC
STAGE 3 DETAIL

C05.31
SHEET 119 OF 1521 SHEETS



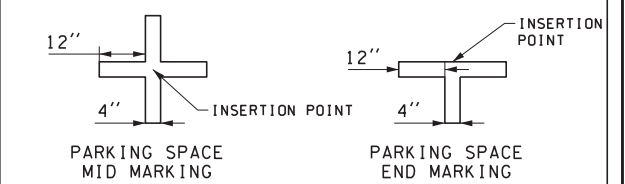
GENERAL NOTES:

- SEE SHEET C05.30 FOR NOTES AND SIGN DETAILS.
- INSTALL PARKING SPACE MARKINGS PER DETAILS ON THIS SHEET. ALL PARKING SPACE MARKINGS SHALL BE WHITE.

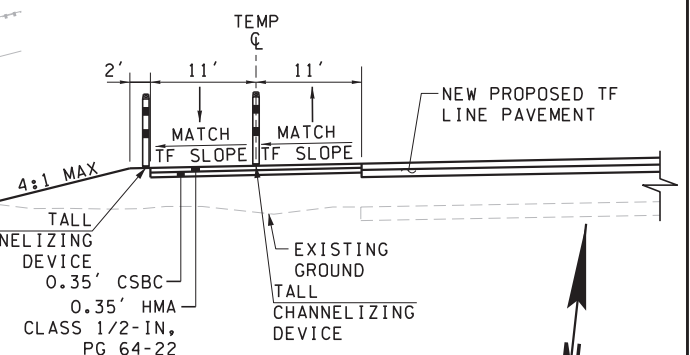
LEGEND:

WORK ZONE	
VEHICLE/BICYCLE ROUTE	
PEDESTRIAN ROUTE	
TALL CHANNELIZING DEVICE	
UNIFORMED POLICE OFFICER	
TYPE 3 BARRICADE	
TEMPORARY PAVEMENT	
CONSTRUCTION SIGN CLASS A	
CONSTRUCTION SIGN CLASS B	
TEMPORARY FENCING	
CONCRETE BARRIER TYPE 2	
TYPE 2 BARRICADE	

PARKING SPACE MARKING DETAIL



TALL CHANNELIZING DEVICES @ 20' O.C.



TYPICAL SECTION N.T.S.

KEY PLAN

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c05_32.dwg

PRINTED: 7:53:05 AM 8/21/2018

SUBMITTAL DATE: 08/23/18

DESIGNED BY: A. WARDHANA

ENTERED BY: K. THOMAS

CHECKED BY: J. TAYLOR

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

CONTRACT NO.

8/21/2018

8/21/2018

8/21/2018

REVISION

DATE

BY

FED.AID
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

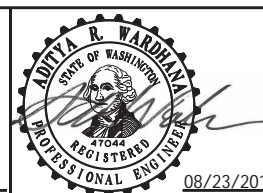
10 WASH

JOB NUMBER

18W121

CONTRACT NO.

00****



08/23/2018

JACOBS



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

MAINTENANCE OF TRAFFIC
STAGE 3 DETAIL

C05.32

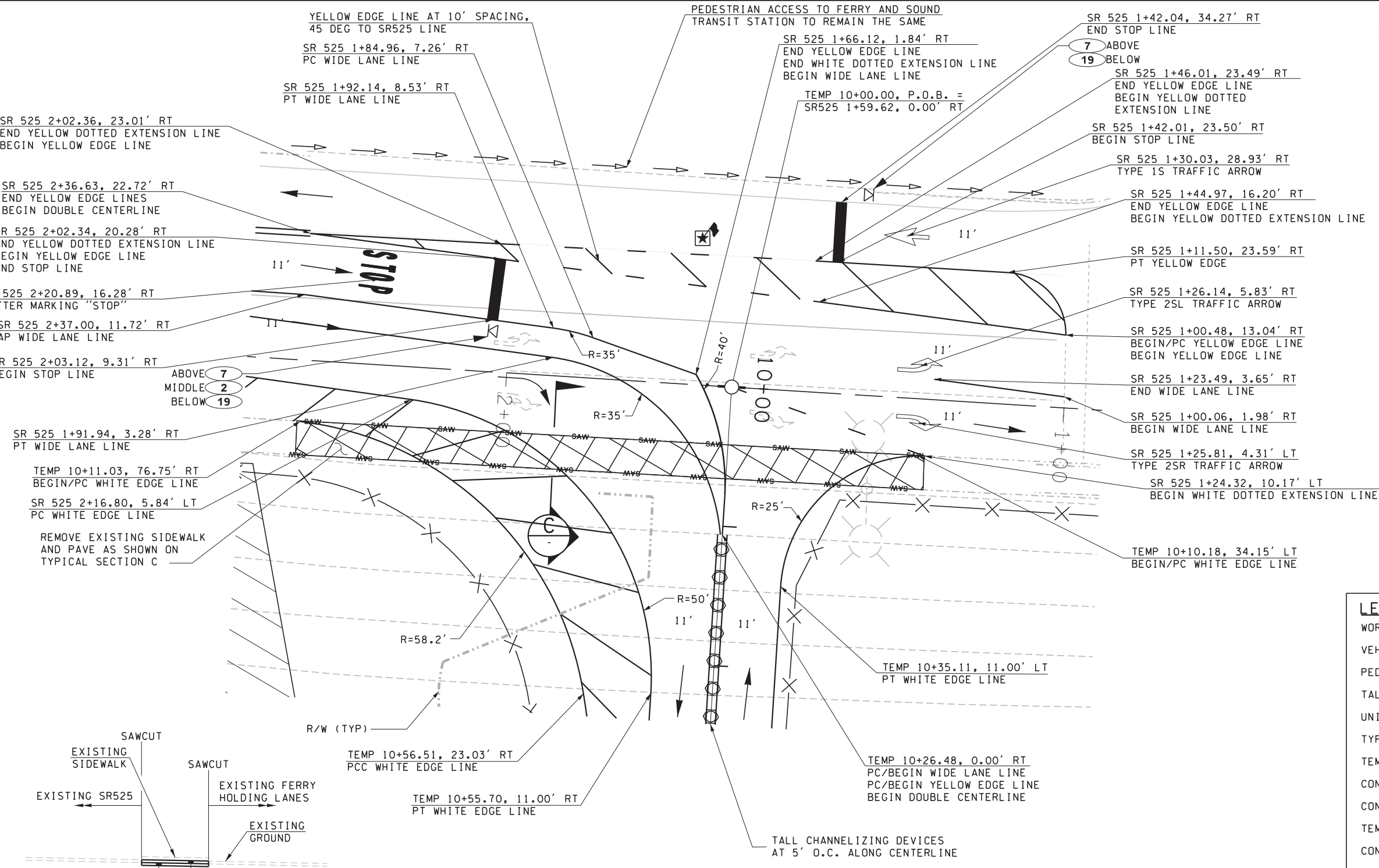
SHEET

120

OF

1521

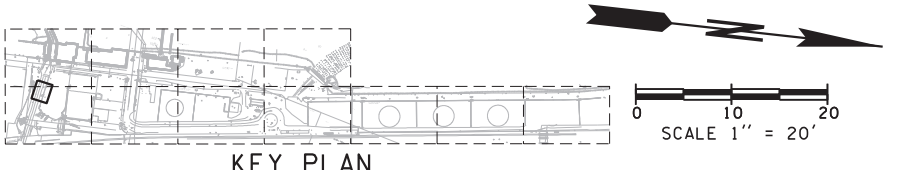
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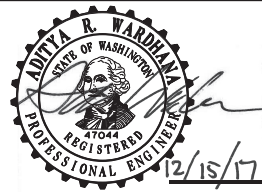
GENERAL NOTES:
1. SEE SHEET C05.30 FOR NOTES AND SIGN DETAILS.

LEGEND:

WORK ZONE	
VEHICLE/BICYCLE ROUTE	
PEDESTRIAN ROUTE	
TALL CHANNELING DEVICE	
UNIFORMED POLICE OFFICER	
TYPE 3 BARRICADE	
TEMPORARY PAVEMENT	
CONSTRUCTION SIGN CLASS A	
CONSTRUCTION SIGN CLASS B	
TEMPORARY FENCING	
CONCRETE BARRIER TYPE 2	
SAWCUT	



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SUBMITTAL DATE: 12/22/17	Contractor:			WA-2017-007-00
DESIGNED BY: A. WARDHANA	12/15/2017			REGION NO. STATE
ENTERED BY: K. THOMAS	12/15/2017			10 WASH
CHECKED BY: J. TAYLOR	12/15/2017			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00****
REVISION	DATE	BY		



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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525	
MUKILTEO FERRY TERMINAL (PHASE 2)	
FERRY TERMINAL CONSTRUCTION	
MAINTENANCE OF TRAFFIC	
STAGE 3 DETAIL	

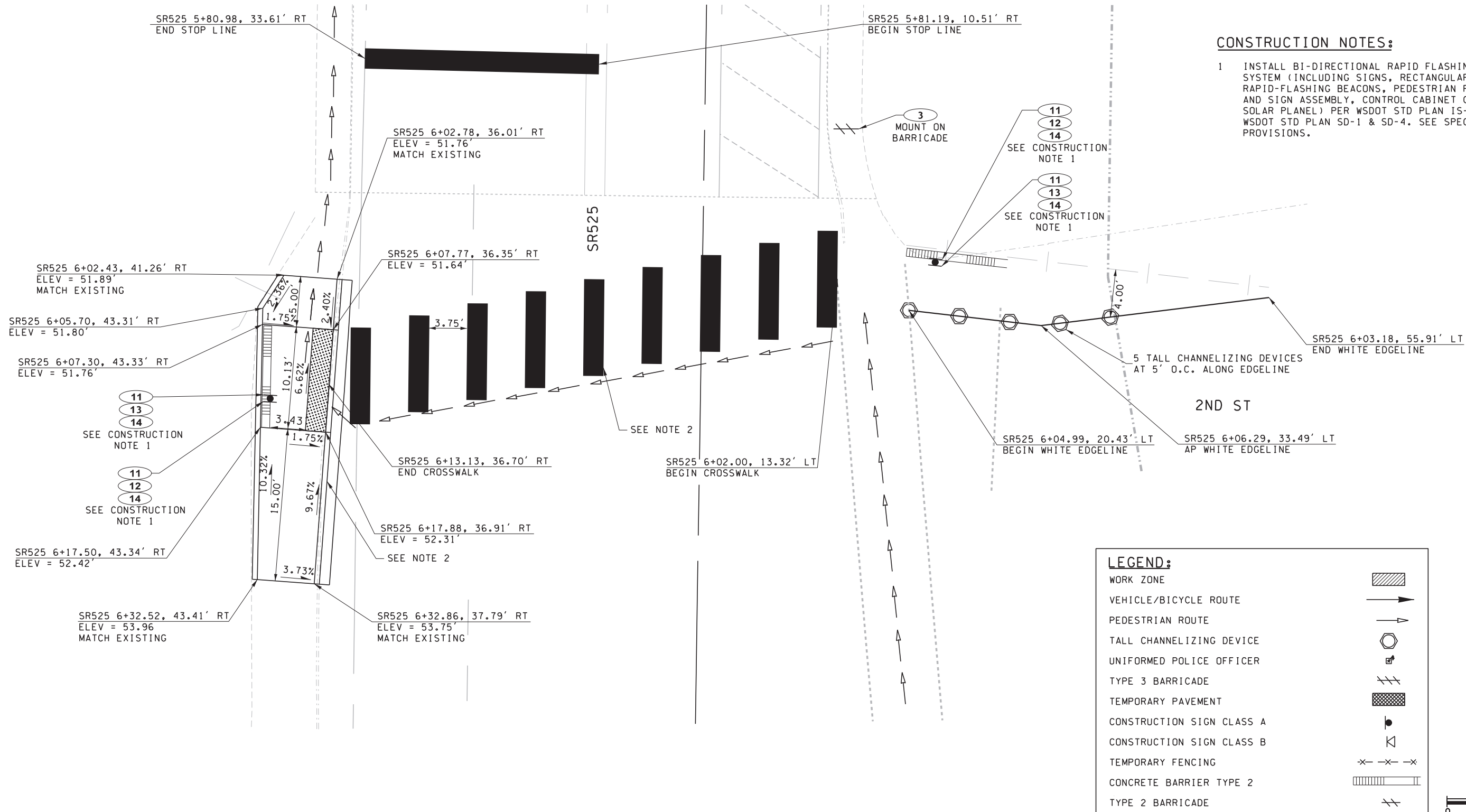
C05.33
SHEET
121
OF
1521
SHEETS

GENERAL NOTES:

- 1.SEE SHEET C05.30 FOR NOTES AND SIGN DETAILS.
- 2.TEMPORARY CROSSING INSTALLED AT SR525 AND 2ND ST.
SHALL BE REMOVED AT COMPLETION OF PROJECT AND
RESTORED TO EXISTING CONDITIONS.

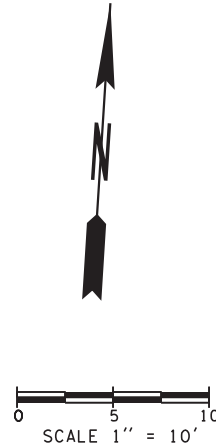
CONSTRUCTION NOTES:

- 1 INSTALL BI-DIRECTIONAL RAPID FLASHING BEACON SYSTEM (INCLUDING SIGNS, RECTANGULAR RAPID-FLASHING BEACONS, PEDESTRIAN PUSH BUTTONS AND SIGN ASSEMBLY, CONTROL CABINET CLOSURE, AND SOLAR PANEL) PER WSDOT STD PLAN IS-22. MOUNT PER WSDOT STD PLAN SD-1 & SD-4. SEE SPECIAL PROVISIONS.



LEGEND:

WORK ZONE	
VEHICLE/BICYCLE ROUTE	
PEDESTRIAN ROUTE	
TALL CHANNELIZING DEVICE	
UNIFORMED POLICE OFFICER	
TYPE 3 BARRICADE	
TEMPORARY PAVEMENT	
CONSTRUCTION SIGN CLASS A	
CONSTRUCTION SIGN CLASS B	
TEMPORARY FENCING	
CONCRETE BARRIER TYPE 2	
TYPE 2 BARRICADE	



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Department of Transportation
WASHINGTON STATE FERRIES



8/21/2018

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c05_34.dwg					FED.AID PROJ.NO.	
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SUBMITTAL DATE: 08/23/18	Contractor				REGION NO. STATE	
DESIGNED BY: A. WARDHANA	8/22/2018				10 WASH	
ENTERED BY: K. THOMAS	8/22/2018				JOB NUMBER	
CHECKED BY: J. SCHENKMAN	8/22/2018				18W121	
MAR PROJ ENGR: C. TORRES					CONTRACT NO.	
DIR TERM ENGR: N. MCINTOSH					00*****	
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
MAINTENANCE OF TRAFFIC
STAGE 3 DETAIL

C05.34

SHEET
122
OF
1521
SHEETS



ALLOWABLE CLOSURE TIMES (SEE NOTE 3)		
TWO LANE CLOSURE AND FLAGGING STATION		
	FROM	TO
MON, TUE, WED, THUR, FRI	1:00 AM	4:00 AM
SATURDAY AND SUNDAY	-	-

- NOTES:**
- SIGN LOCATIONS ARE APPROXIMATE.
 - ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
 - CLOSURE TIMES MUST BE APPROVED BY CITY OF MUKILTEO PRIOR TO IMPLEMENTATION.
 - THIS FLAGGING OPERATION IS TO OCCUR PROIR TO BEGINNING OF STAGE 3 MOT.
 - CITY OF MUKILTEO NOISE VARIENCE MUST BE OBTAINED AT LEAST 10 CALENDAR DAYS PRIOR TO START OF SCHEDULED WORK.

LEGEND:

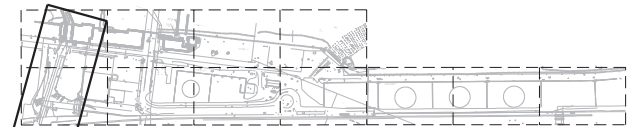
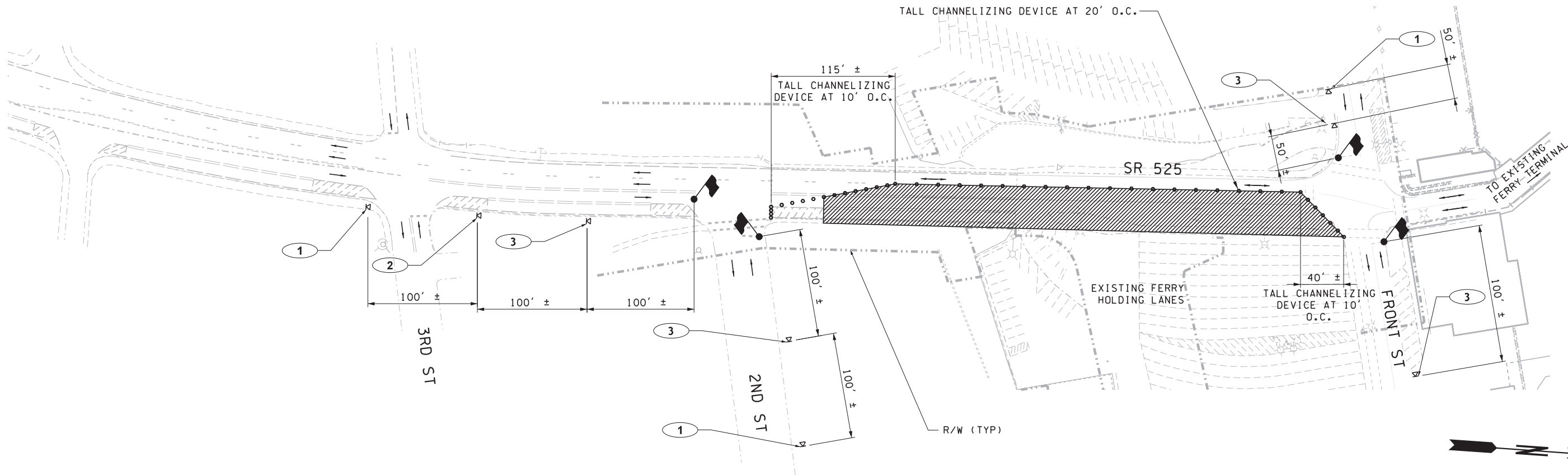
WORK ZONE

DIRECTION OF TRAFFIC

CONSTRUCTION SIGN CLASS B

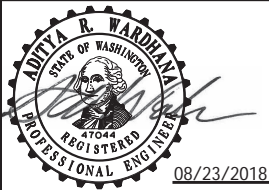
TALL CHANNELIZING DEVICE

FLAGGING STATION



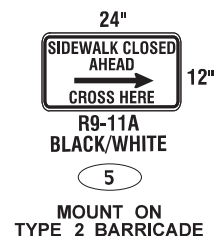
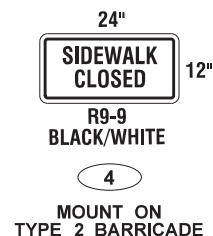
0 50 100
SCALE 1" = 100'

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c05_35.dwg					FED.AID PROJ.NO.	
PRINTED: 8:09:24 AM 8/21/2018	LAST PRINTED BY:				WA-2017-007-00	
SUBMITTAL DATE: 08/23/18	CONTRACT NO.				REGION NO. STATE	
DESIGNED BY: A. WARDHANA	8/21/2018				10 WASH	
ENTERED BY: K. THOMAS	8/21/2018				JOB NUMBER	
CHECKED BY: J. TAYLOR	8/21/2018				18W121	
MAR PROJ ENGR: C. TORRES					CONTRACT NO.	
DIR TERM ENGR: N. MCINTOSH					00*****	
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		

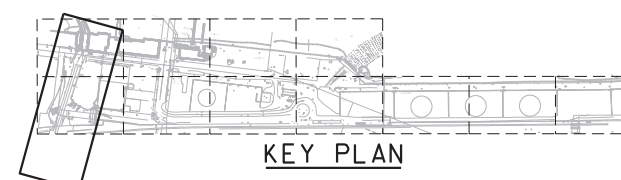
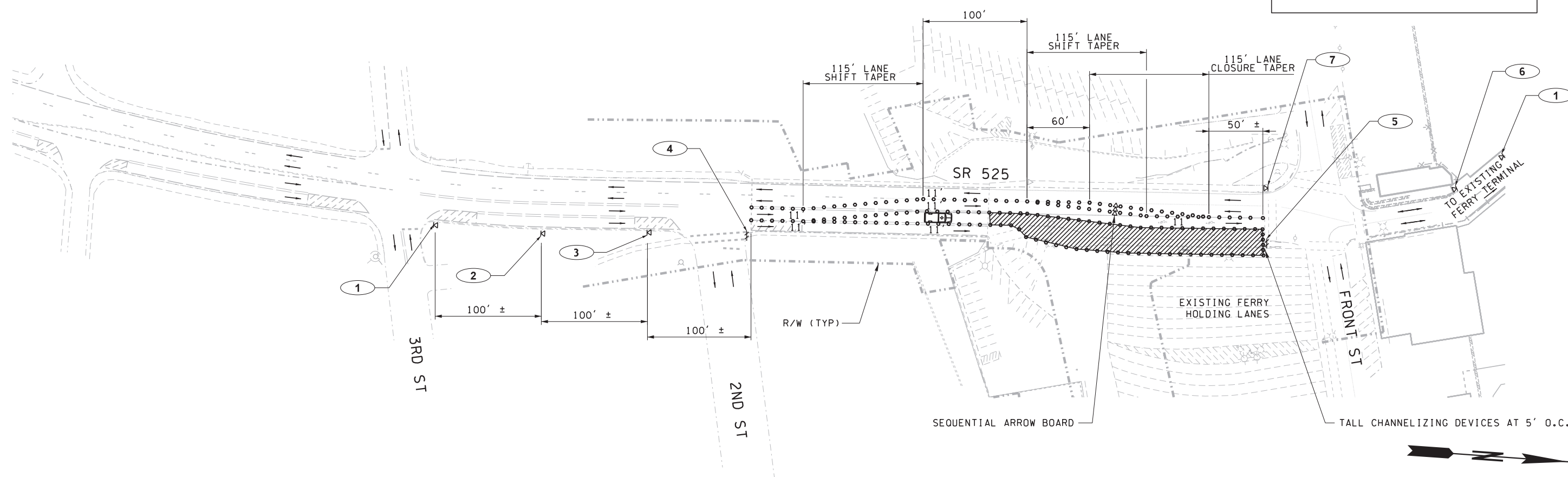
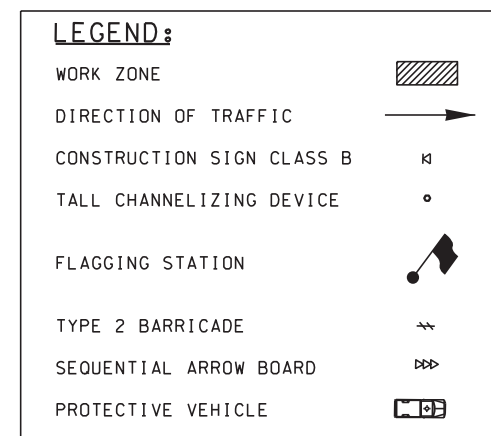


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TRAFFIC CONTROL PLAN
SR525 FLAGGING OPERATION

C05.35
SHEET
123
OF
1521
SHEETS

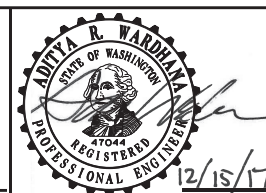


1. SIGN LOCATIONS ARE APPROXIMATE.
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
3. NOT ALL UTILITIES ARE SHOWN.
4. ALL CHANNELIZING DEVICES ARE AT 10' SPACING O.C. UNLESS OTHERWISE NOTED.



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SUBMITTAL DATE: 12/22/17	ConradCS		
DESIGNED BY: A. WARDHANA	12/15/2017		
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CHECKED BY: J. TAYLOR	12/15/2017		
MAR PROJ ENGR: C. TORRES			
DIR TERM ENGR: N. MCINTOSH			
ASST SECRETARY: A. SCARTON		REVISION	DATE

FED.AID PROJ.NO.	
WA-2017-007-00	
REGION NO.	STATE
10	WASH
JOB NUMBER 18W121	
CONTRACT NO. 00****	



**Washington State
Department of Transportation**
WASHINGTON STATE FERRIES

SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION
TRAFFIC CONTROL PLAN NB SR525 RIGHT LANE CLOSURE

C05.36
SHEET
124
OF
1521
SHEETS

30"

R3-1
BLACK/RED ON WHITE

1

48"

SPECIAL
WHITE ON BLUE

2

24"

R3-17
BLACK ON WHITE

3

30"

R3-17C
BLACK ON WHITE

4

NOTES:

1. ROUTES SHOWN ARE FOR VEHICLES, BICYCLES, AND PEDESTRIANS HEADING NORTHBOUND ON SR525.
2. NOT ALL UTILITIES ARE SHOWN.
3. SEE C06.10 THROUGH C06.16 FOR ALIGNMENT HORIZONTAL CONTROLS.
4. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
5. INSTALL SIGNING IN ACCORDANCE WITH WSDOT STANDARD PLAN K-80.10-00.
6. ALL PAVEMENT MARKINGS SHALL BE PER PAVEMENT MARKINGS PLAN UNLESS OTHERWISE NOTED.
7. ALL EXISTING PAVEMENT MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED.
8. ALL EXISTING CONFLICTING SIGNS SHALL BE COVERED OR REMOVED.

The diagram shows the plan view of SR 525 from station 0+00 to 125+00. Key features include:

- Streets:** FRONT ST, PARK AVE, 1ST ST, 2ND ST, MT BAKER AVE.
- Lines:** SR 525 LINE, COM LINE, E LINE, TF LINE.
- Work Zone:** Indicated by a hatched area between FRONT ST and PARK AVE.
- Access:** PERMANENT ACCESS OPEN (WB RT TURN TO NB MUKILTEO SPEEDWAY CLOSED).
- Stationing:** Marked at 5+00, 10+00, 15+00, 20+00, 105+00, 110+00, 115+00, 120+00, 125+00.
- Other Labels:** EXISTING FERRY HOLDING LANES AND TERMINAL DECOMMISSIONED, SOUND TRANSIT R/W, MUKILTEO SOUNDER STATION, PEDESTRIAN ACCESS TO FERRY AND SOUNDER TRAIN STATION VIA NEW SOUTH SIDEWALK ON NEW SR525.
- Sign Callouts:** 1, 2, 3, 4 corresponding to the legend.

LEGEND:

WORK ZONE

VEHICLE/BICYCLE ROUTE

PEDESTRIAN ROUTE

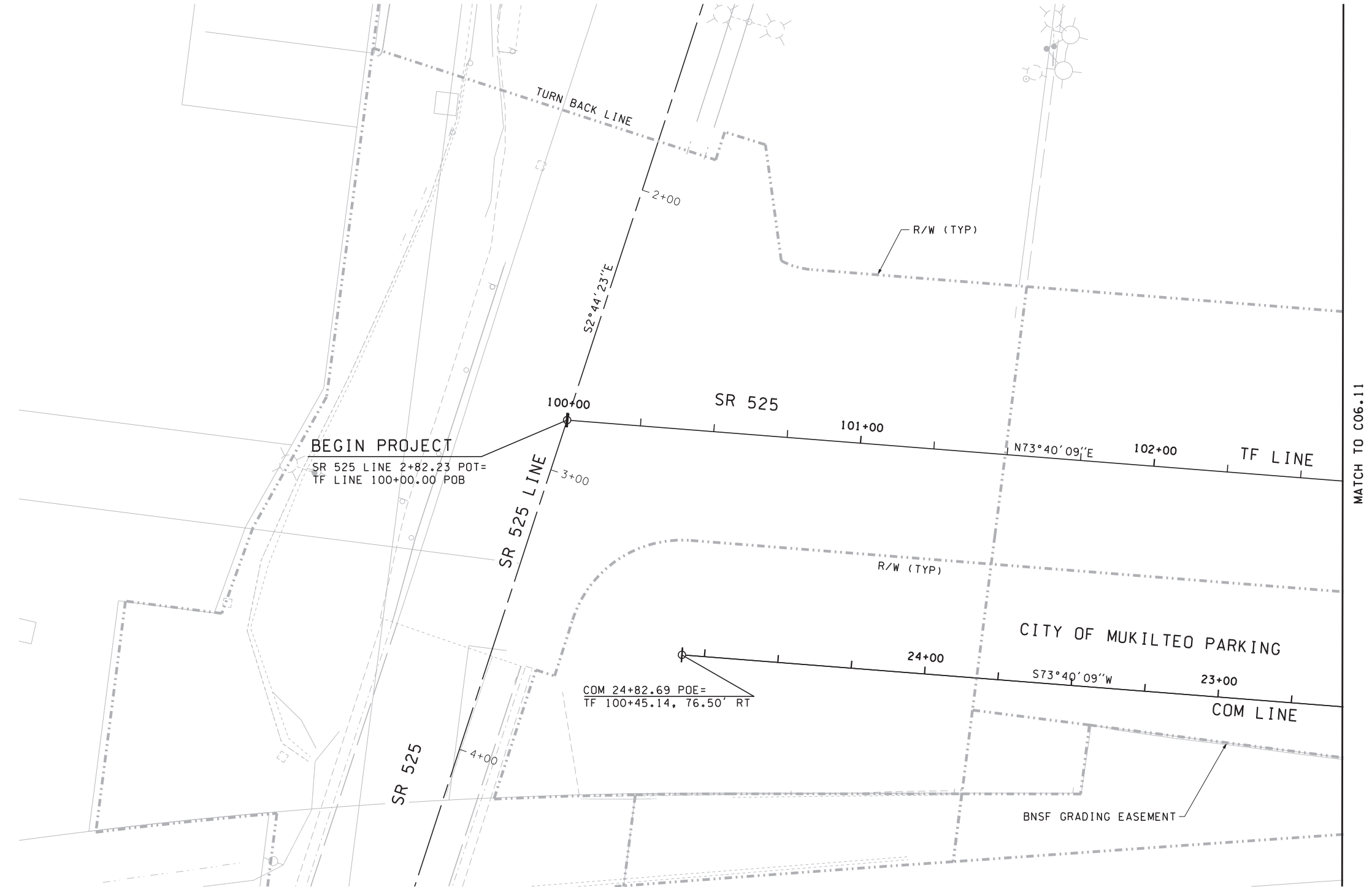
CONSTRUCTION SIGN CLASS A

TEMPORARY FENCING

North arrow pointing towards the top right. Scale bar: 0, 100, 200 feet. SCALE 1" = 200'

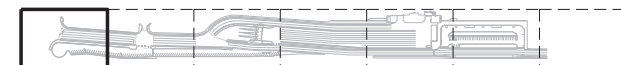
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PRINTED: 10:28:34 AM 12/15/2017	LAST PRINTED BY: ConrodCS					 Washington State Department of Transportation WASHINGTON STATE FERRIES	MAINTENANCE OF TRAFFIC STAGE 4 OVERVIEW		
SUBMITTAL DATE: 12/22/17	DESIGNED BY: A. WARDHANA	12/15/2017							SHEET
ENTERED BY: K. THOMAS	CHECKED BY: J. TAYLOR	12/15/2017							125
MAR PROJ ENGR: C. TORRES	DIR TERM ENGR: N. MCINTOSH								OF
ASST SECRETARY: A. SCARTON			REVISION	DATE	BY				1521
									SHEETS

SEC. 4, T.28 N. R.4 E. W.M.

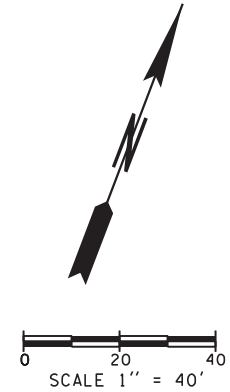


NOTES:

1. SEE SITE PREPARATION PLANS FOR CUT AND FILL LINES. SEE SHEETS C04.10 TO C04.17.
2. ROW FOR INFORMATION ONLY. SEE RIGHT-OF-WAY PLAN, SUNDRY SITE PLAN, AND RECORDED BINDING SITE PLAN.
3. SEE SHEETS C01.00 - C01.01 FOR ADDITIONAL INFORMATION REGARDING THE HORIZONTAL CONTROL POINTS FOR THIS PROJECT.



KEY PLAN



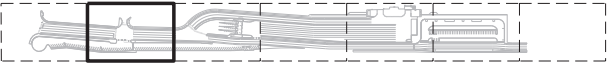
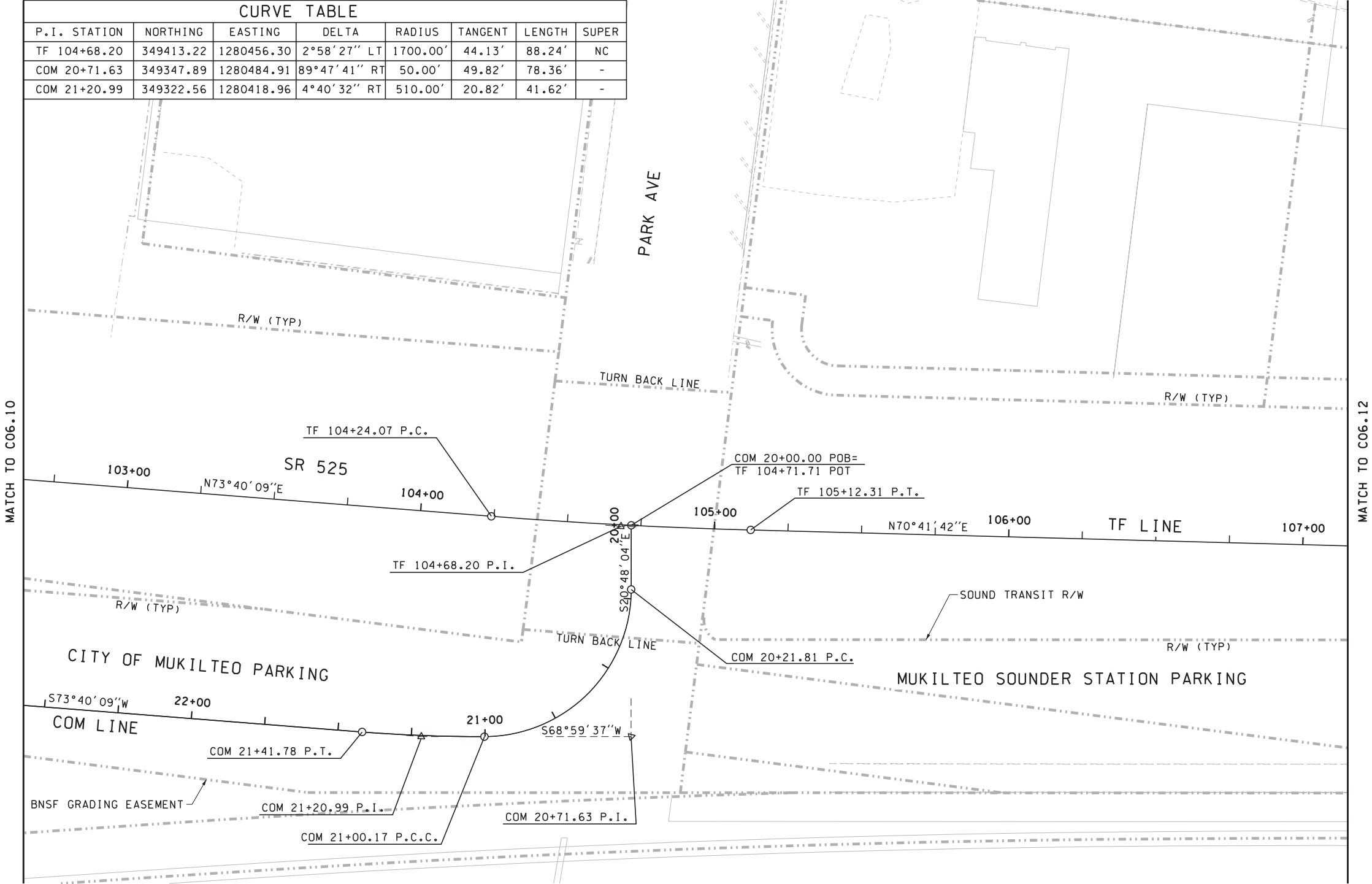
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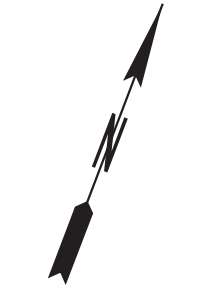
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1. SEE SITE PREPARATION PLANS FOR CUT AND FILL LINES. SEE SHEETS C04.10 TO C04.17.
2. ROW FOR INFORMATION ONLY. SEE RIGHT-OF-WAY PLAN, SUNDRY SITE PLAN, AND RECORDED BINDING SITE PLAN.
3. SEE SHEETS C01.00 - C01.01 FOR ADDITIONAL INFORMATION REGARDING THE HORIZONTAL CONTROL POINTS FOR THIS PROJECT.



KEY PLAN



0 20 40
SCALE 1" = 40'

JACOBS



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

ROADWAY ALIGNMENT

C06.11

SHEET
127
OF
1521
SHEETS

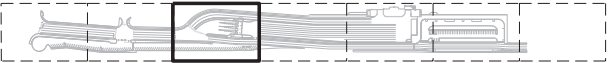
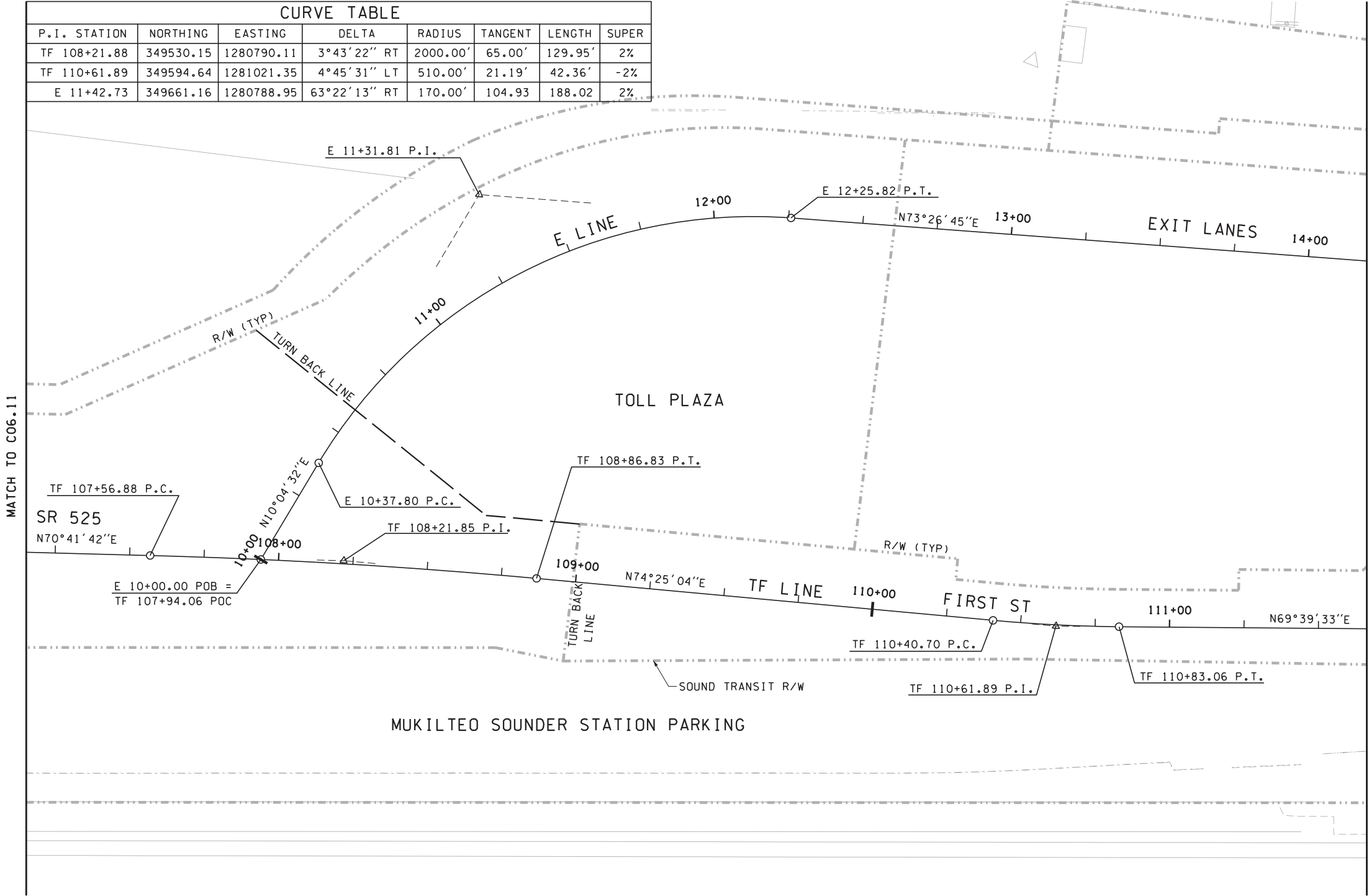
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SUBMITTAL DATE: 08/23/18					WA-2017-007-00		
DESIGNED BY: M. PANICK	8/22/2018				REGION NO. STATE		
ENTERED BY: C. CONRAD	8/22/2018				10 WASH		
CHECKED BY: J. SCHENKMAN	8/22/2018				JOB NUMBER		
MAR PROJ ENGR: C. TORRES					18W121		
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.		
ASST SECRETARY: A. SCARTON					00****		
	REVISION	DATE	BY				

SEC. 4, T.28 N. R.4 E. W.M.

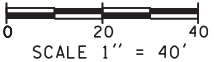
CURVE TABLE							
P.I. STATION	NORTHING	EASTING	DELTA	RADIUS	TANGENT	LENGTH	SUPER
TF 108+21.88	349530.15	1280790.11	3°43'22" RT	2000.00'	65.00'	129.95'	2%
TF 110+61.89	349594.64	1281021.35	4°45'31" LT	510.00'	21.19'	42.36'	-2%
E 11+42.73	349661.16	1280788.95	63°22'13" RT	170.00'	104.93	188.02	2%

NOTES:

- SEE SITE PREPARATION PLANS FOR CUT AND FILL LINES. SEE SHEETS C04.10 TO C04.17.
- ROW FOR INFORMATION ONLY. SEE RIGHT-OF-WAY PLAN, SUNDRY SITE PLAN, AND RECORDED BINDING SITE PLAN.
- SEE SHEETS C01.00 - C01.01 FOR ADDITIONAL INFORMATION REGARDING THE HORIZONTAL CONTROL POINTS FOR THIS PROJECT.



KEY PLAN



SCALE 1" = 40'

JACOBS



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

ROADWAY ALIGNMENT

C06.12

SHEET
128
OF
1521
SHEETS

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DESIGNED BY: M. PANICK					10 WASH		
ENTERED BY: C. CONRAD					JOB NUMBER		
CHECKED BY: J. SCHENKMAN					18W121		
MAR PROJ ENGR: C. TORRES					CONTRACT NO.		
DIR TERM ENGR: N. MCINTOSH					00****		
ASST SECRETARY: A. SCARTON					REVISION		
					DATE		
					BY		

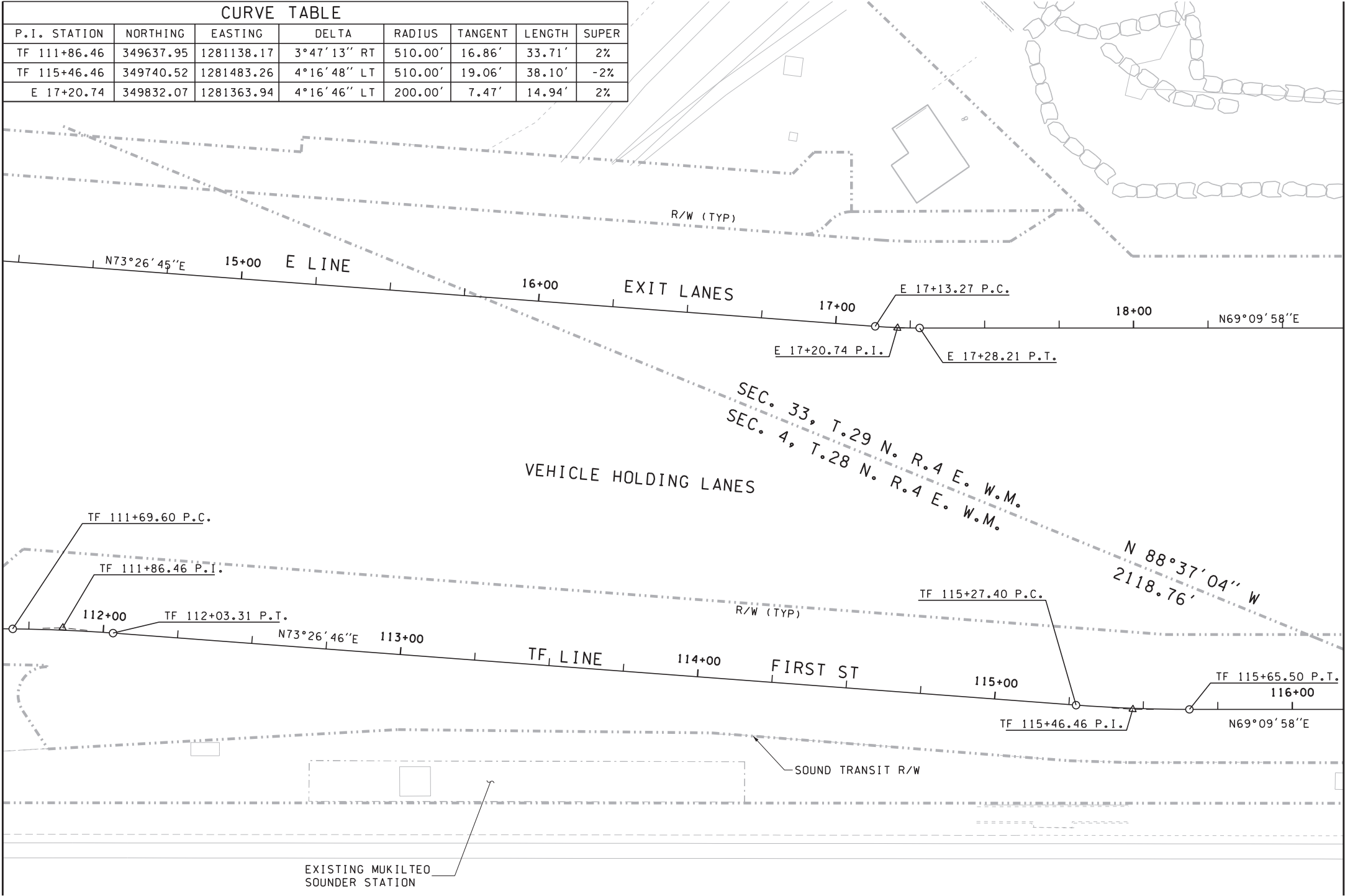
SEC. 4, T.28 N. R.4 E. W.M./ SEC. 33, T.29 N. R.4 E. W.M.

CURVE TABLE							
P.I. STATION	NORTHING	EASTING	DELTA	RADIUS	TANGENT	LENGTH	SUPER
TF 111+86.46	349637.95	1281138.17	3°47'13" RT	510.00'	16.86'	33.71'	2%
TF 115+46.46	349740.52	1281483.26	4°16'48" LT	510.00'	19.06'	38.10'	-2%
E 17+20.74	349832.07	1281363.94	4°16'46" LT	200.00'	7.47'	14.94'	2%

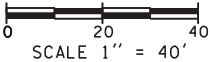
- NOTES:
- SEE SITE PREPARATION PLANS FOR CUT AND FILL LINES. SEE SHEETS C04.10 TO C04.17.
 - ROW FOR INFORMATION ONLY. SEE RIGHT-OF-WAY PLAN, SUNDRY SITE PLAN, AND RECORDED BINDING SITE PLAN.
 - SEE SHEETS C01.00 - C01.01 FOR ADDITIONAL INFORMATION REGARDING THE HORIZONTAL CONTROL POINTS FOR THIS PROJECT.

MATCH TO C06.12

MATCH TO C06.14

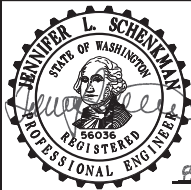


KEY PLAN



JACOBS

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DESIGNED BY: M. PANICK					10 WASH		
ENTERED BY: C. CONRAD					JOB NUMBER		
CHECKED BY: J. SCHENKMAN					18W121		
MAR PROJ ENGR: C. TORRES					CONTRACT NO.		
DIR TERM ENGR: N. MCINTOSH					00****		
ASST SECRETARY: A. SCARTON					REVISION	DATE	BY



8/21/2018



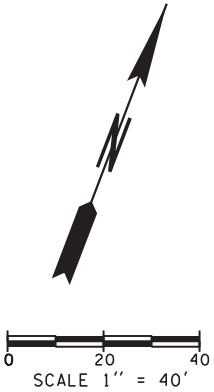
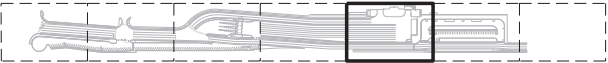
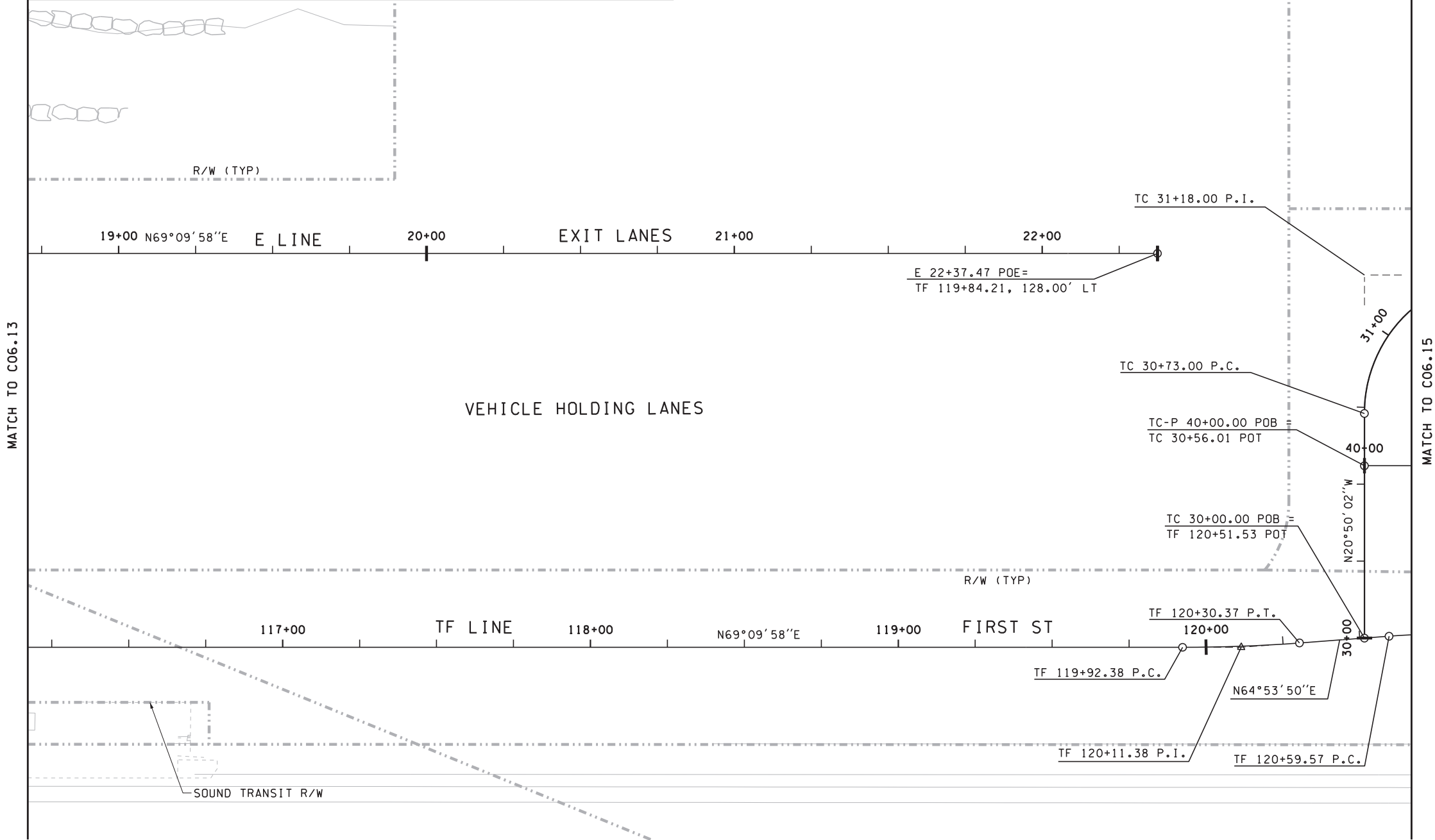
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
ROADWAY ALIGNMENT

C06.13
SHEET
129
OF
1521
SHEETS

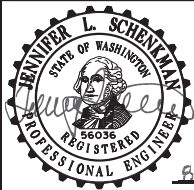
SEC. 33, T.29 N. R.4 E. W.M.

CURVE TABLE							
P.I. STATION	NORTHING	EASTING	DELTA	RADIUS	TANGENT	LENGTH	SUPER
TF 120+11.38	349905.88	1281917.81	4°16'08" LT	510.00'	19.01'	38.00'	-2%
TC 31+18.00	350033.20	1281912.21	89°59'50" RT	45.00'	45.00	70.68	1%

- NOTES:
- SEE SITE PREPARATION PLANS FOR CUT AND FILL LINES. SEE SHEETS C04.10 TO C04.17.
 - ROW FOR INFORMATION ONLY. SEE RIGHT-OF-WAY PLAN, SUNDRY SITE PLAN, AND RECORDED BINDING SITE PLAN.
 - SEE SHEETS C01.00 - C01.01 FOR ADDITIONAL INFORMATION REGARDING THE HORIZONTAL CONTROL POINTS FOR THIS PROJECT.



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c06_14.dwg							
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SUBMITTAL DATE: 08/23/18		Contract				WA-2017-007-00	
DESIGNED BY: M. PANICK		8/22/2018				REGION NO. STATE	
ENTERED BY: D. PERRY		8/22/2018				10 WASH	
CHECKED BY: J. SCHENKMAN		8/22/2018				JOB NUMBER	
MAR PROJ ENGR: C. TORRES						18W121	
DIR TERM ENGR: N. MCINTOSH						CONTRACT NO.	
ASST SECRETARY: A. SCARTON						00****	
		REVISION		DATE		BY	



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Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

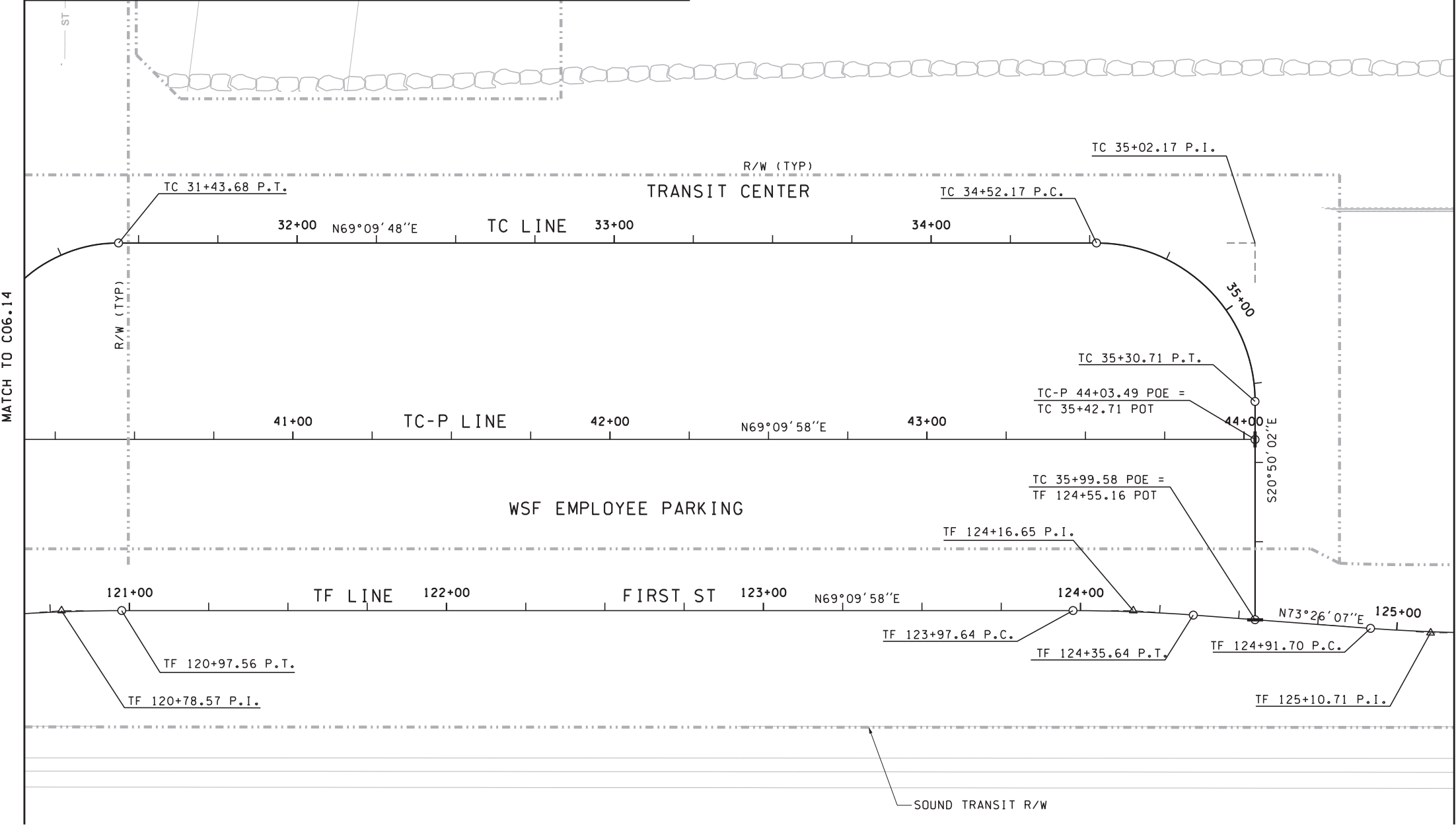
ROADWAY ALIGNMENT

C06.14

SHEET
130
OF
1521
SHEETS

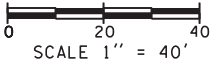
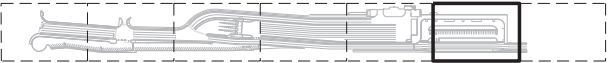
SEC. 33, T.29 N. R.4 E. W.M.

CURVE TABLE							
P.I. STATION	NORTHING	EASTING	DELTA	RADIUS	TANGENT	LENGTH	SUPER
TF 120+78.57	349934.39	1281978.67	4°16'08" RT	510.00'	19.01'	38.00'	2%
TF 124+16.65	350054.64	1282294.65	4°16'08" RT	510.00'	19.01'	38.00'	2%
TF 125+10.71	350081.46	1282384.82	4°16'08" LT	510.00'	19.01'	38.00'	-2%
TC 35+02.17	350176.72	1282289.30	90°00'10" RT	50.00'	50.00'	78.54'	2%



NOTES:

1. SEE SITE PREPARATION PLANS FOR CUT AND FILL LINES. SEE SHEETS C04.10 TO C04.17.
2. ROW FOR INFORMATION ONLY. SEE RIGHT-OF-WAY PLAN, SUNDRY SITE PLAN, AND RECORDED BINDING SITE PLAN.
3. SEE SHEETS C01.00 - C01.01 FOR ADDITIONAL INFORMATION REGARDING THE HORIZONTAL CONTROL POINTS FOR THIS PROJECT.



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c06_15.dwg							
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SUBMITTAL DATE: 08/23/18	ConradCS				WA-2017-007-00		
DESIGNED BY: M. PANICK	8/22/2018				REGION NO. STATE		
ENTERED BY: C. CONRAD	8/22/2018				10 WASH		
CHECKED BY: J. SCHENKMAN	8/22/2018				JOB NUMBER		
MAR PROJ ENGR: C. TORRES					18W121		
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.		
ASST SECRETARY: A. SCARTON					00****		
	REVISION		DATE	BY			



8/21/2018

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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
ROADWAY ALIGNMENT

C06.15
SHEET
131
OF
1521
SHEETS

SEC. 33. T.29 N. R.4 E. W.M.

NOTES:

1. SEE SITE PREPARATION PLANS FOR CUT AND FILL LINES. SEE SHEETS C04.10 TO C04.17.
2. ROW FOR INFORMATION ONLY. SEE RIGHT-OF-WAY PLAN, SUNDRY SITE PLAN, AND RECORDED BINDING SITE PLAN.
3. SEE SHEETS C01.00 - C01.01 FOR ADDITIONAL INFORMATION REGARDING THE HORIZONTAL CONTROL POINTS FOR THIS PROJECT.

MATCH TO C06.15

R/W (TYP)

END PROJECT

TF 125+76.11 POE=
MT BAKER AVE 61+89.00 POT

TF LINE
N69°09'58"E

FIRST ST

TF 125+29.70 P.T.

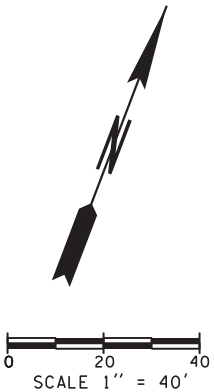
FIRST ST

MOUNT BAKER
AVE

SOUND TRANSIT R/W



KEY PLAN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121c06-16.dwg

PRINTED: 1:50:10 PM 8/22/2018

LAST PRINTED BY:

ConradCS

SUBMITTAL DATE: 08/23/18

DESIGNED BY: M. PANICK

8/22/2018

ENTERED BY: C. CONRAD

8/22/2018

CHECKED BY: J. SCHENKMAN

8/22/2018

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

REVISION

DATE

BY

FED.AID
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

00*****



8/21/2018

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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

ROADWAY ALIGNMENT

C06.16

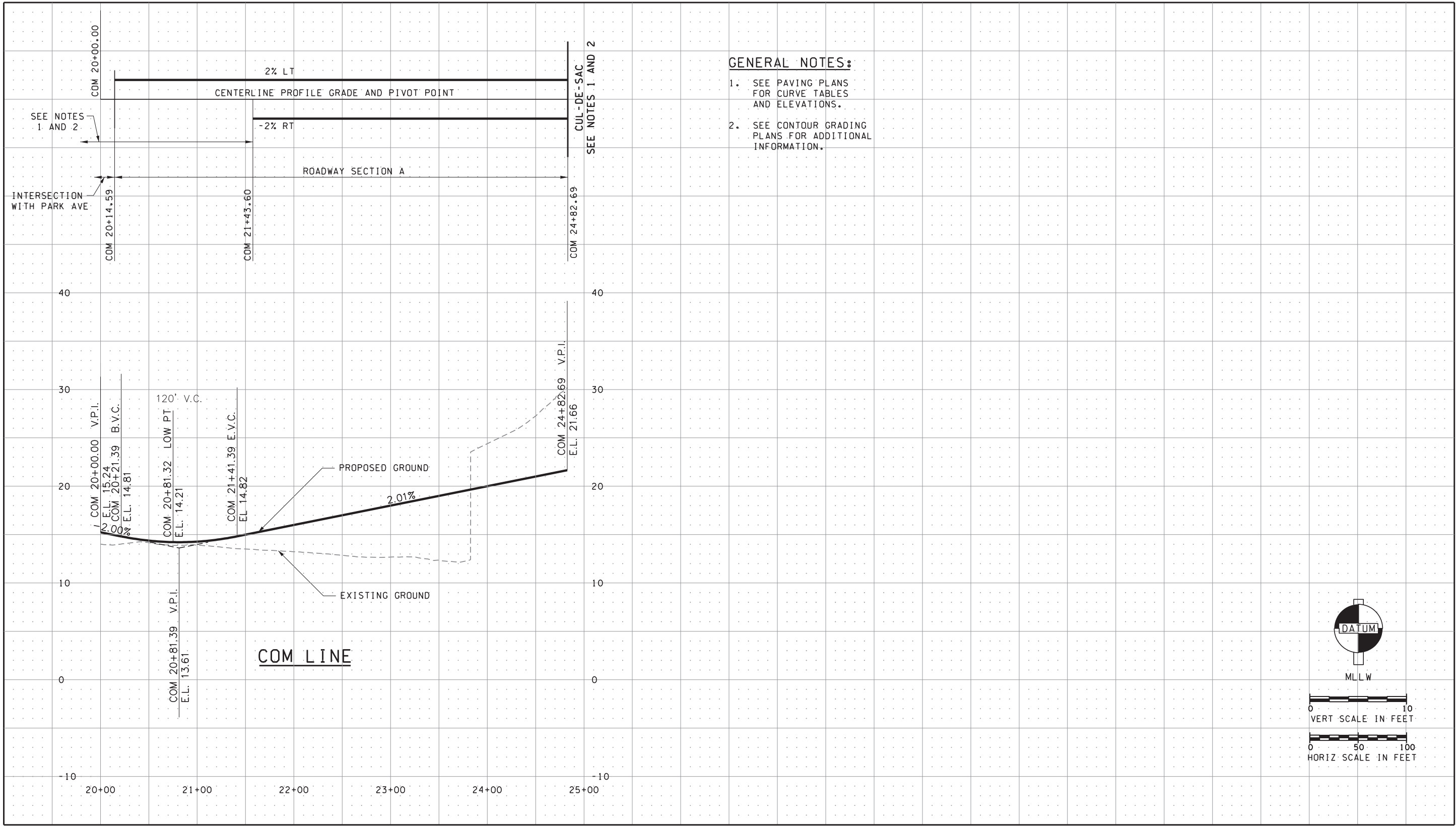
SHEET

132

OF

1521

SHEETS



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c06-23.dwg

PRINTED: 9:57:53 AM 8/22/2018

SUBMITTAL DATE: 08/23/18

DESIGNED BY: M. PANICK

ENTERED BY: C. CONRAD

CHECKED BY: J. SCHENKMAN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

Doniel J.L.

8/22/2018

8/22/2018

8/22/2018

REVISION

DATE

BY

FED.AID

PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

00****



8/22/2018

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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

ROADWAY PROFILE

C06.23

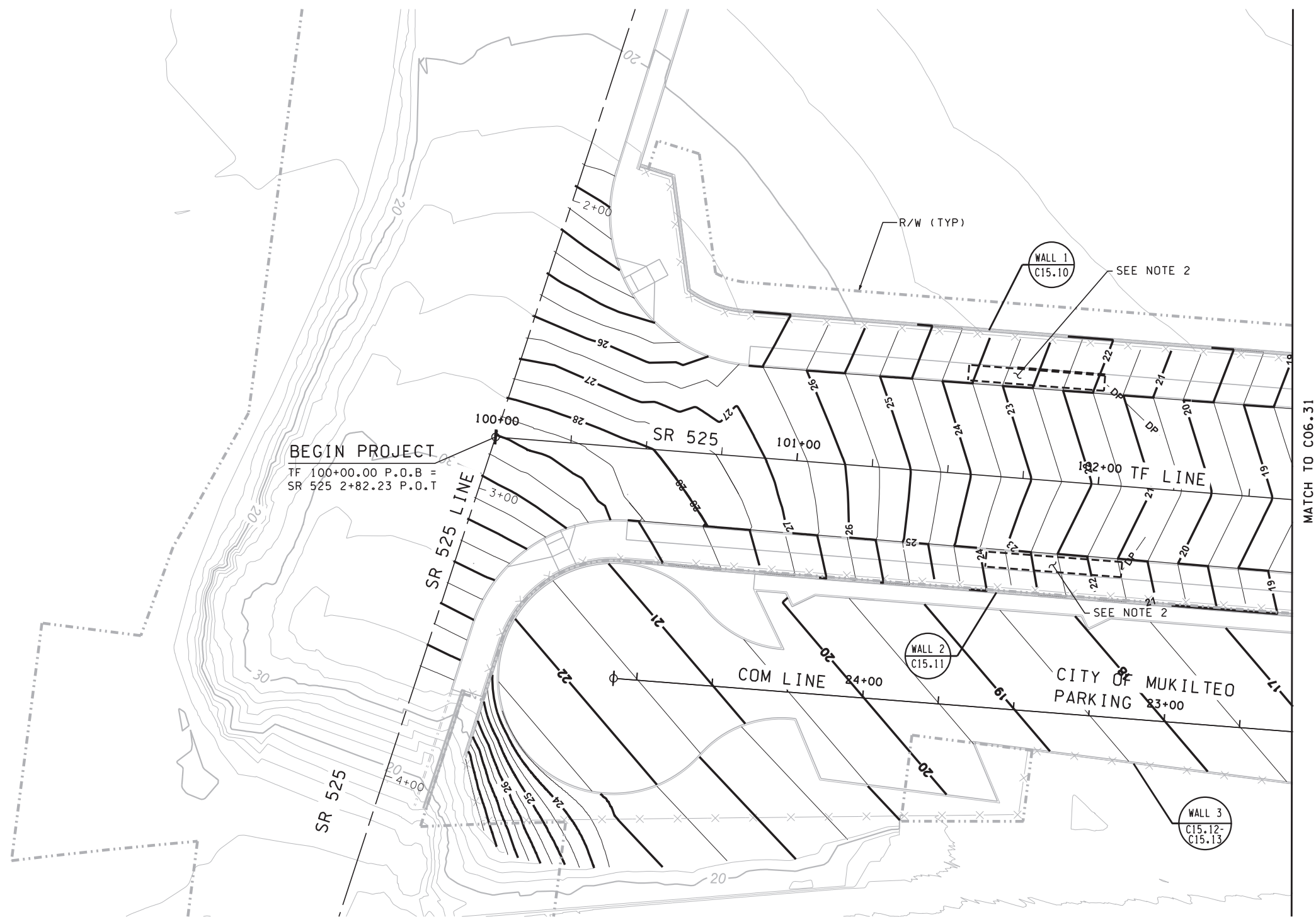
SHEET

136

OF

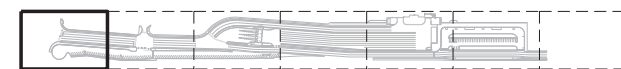
1521

SHEETS

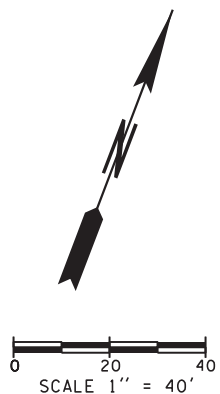


NOTES:

1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16
2. SEE DRAINAGE PLANS FOR ADDITIONAL PROPOSED GRADING AND FLOW TEST REQUIREMENTS, SHEETS C07.10 TO C07.54
3. SEE PLANTING AND IRRIGATION PLANS FOR ADDITIONAL PROPOSED GRADING, SHEETS C09.50 TO C09.64
4. UTILITIES NOT SHOWN FOR CLARITY.
5. EXISTING CONTOURS AT 2' INTERVALS. PROPOSED CONTOURS AT 0.5' INTERVALS.
6. SEE PAVING PLANS FOR CURVE TABLES, SHEETS C10.10 TO C10.16
7. SEE ADA RAMP DETAILS FOR ADA RAMP ELEVATIONS, SHEETS C10.20 TO C10.31
8. SEE BUILDING PLANS FOR FOUNDATION DETAILS, SHEETS SX00.10 TO SX01.15
9. SEE RETAINING WALL PLANS FOR WALL ALIGNMENTS, DESIGN & DETAILS, SHEETS C15.10 TO C15.33.



KEY PLAN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c06_30.dwg

PRINTED: 8:27:58 AM 8/22/2018

SUBMITTAL DATE: 08/23/18

DESIGNED BY: J. SCHENKMAN

ENTERED BY: C. CONRAD

CHECKED BY: J. SCHENKMAN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

ConradCS

8/22/2018

8/22/2018

8/22/2018

REVISION

DATE

BY

FED.AID
PROJ.NO.

WA-2017-007-00

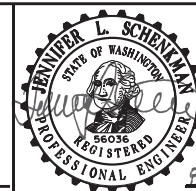
REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.
00****

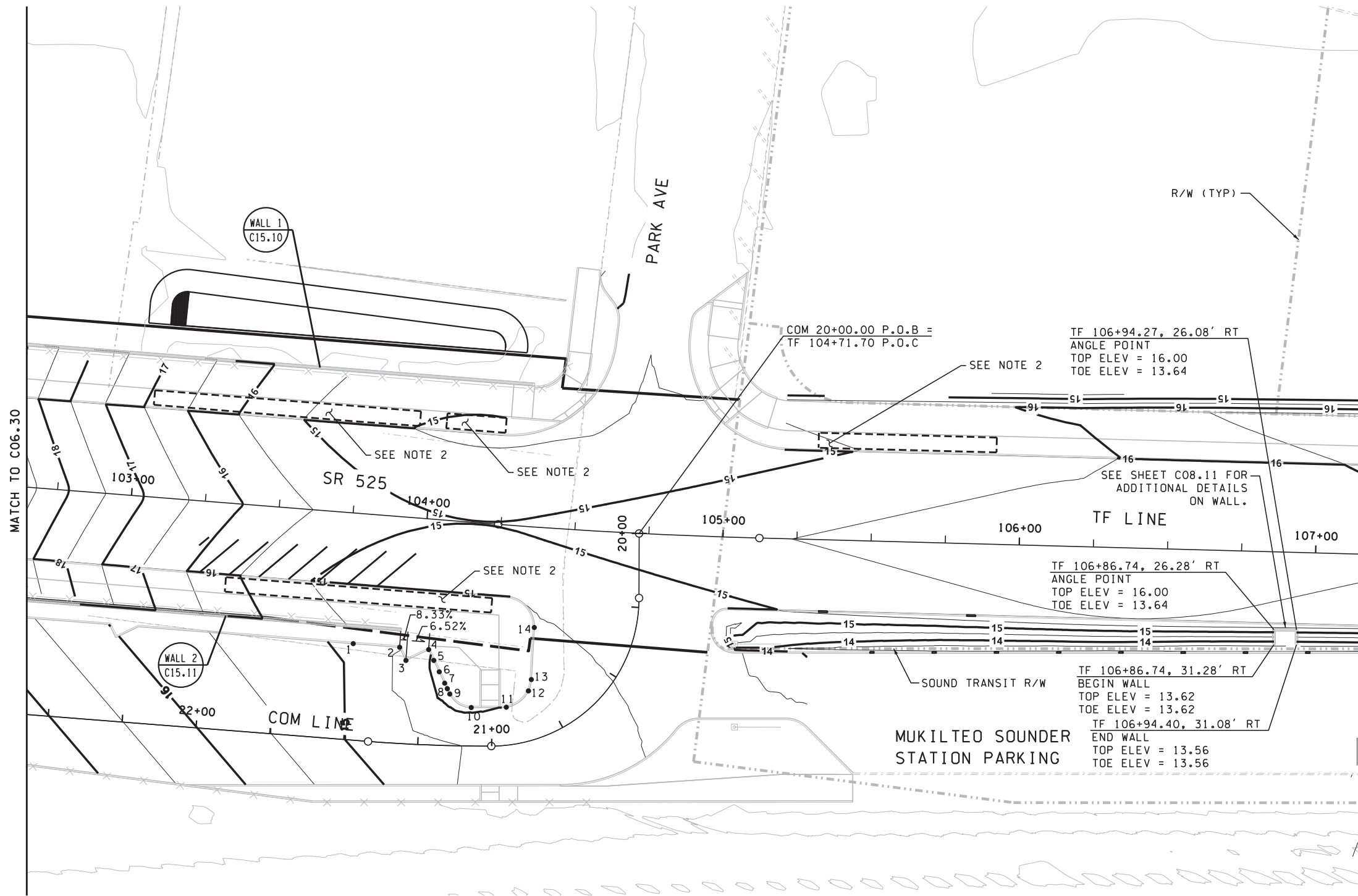


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

CONTOUR GRADING PLAN

C06.30

SHEET
138
OF
1521
SHEETS



NOTES:

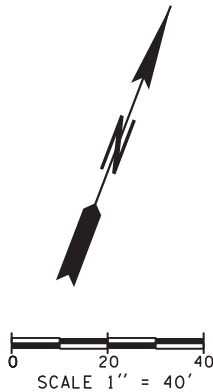
1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16
2. SEE DRAINAGE PLANS FOR ADDITIONAL PROPOSED GRADING AND FLOW TEST REQUIREMENTS, SHEETS C07.10 TO C07.54
3. SEE PLANTING AND IRRIGATION PLANS FOR ADDITIONAL PROPOSED GRADING, SHEETS C09.50 TO C09.64
4. UTILITIES NOT SHOWN FOR CLARITY.
5. EXISTING CONTOURS AT 2' INTERVALS. PROPOSED CONTOURS AT 0.5' INTERVALS.
6. SEE PAVING PLANS FOR CURVE TABLES, SHEETS C10.10 TO C10.16
7. SEE ADA RAMP DETAILS FOR ADA RAMP ELEVATIONS, SHEETS C10.20 TO C10.31
8. SEE BUILDING PLANS FOR FOUNDATION DETAILS, SHEETS SX00.10 TO SX01.15
9. SEE RETAINING WALL PLANS FOR WALL ALIGNMENTS, DESIGN & DETAILS, SHEETS C15.10 TO C15.33.

COM GRADING POINT TABLE					
POINT	STATION	OFFSET	ELEV	DESCRIPTION	
1	21+43.60	32.50 RT	14.82	6" CURB HEIGHT; CHANGE IN GRADE	
2	21+33.10	32.43 RT	14.55	8" CURB HEIGHT; CHANGE IN GRADE	
3	21+30.58	28.13 RT	14.31	8" CURB HEIGHT; CHANGE IN GRADE	
4	21+22.63	32.16 RT	14.04	6" CURB HEIGHT; CHANGE IN GRADE	
5	21+20.20	27.82 RT	13.93	CHANGE IN GRADE	
6	21+18.40	24.52 RT	13.87	CHANGE IN GRADE	
7	21+16.62	21.22 RT	13.84	CURB CUT; CHANGE IN GRADE	
8	21+15.20	18.55 RT	13.85	CURB CUT; CHANGE IN GRADE	
9	21+15.59	17.40 RT	13.86	PT	
10	21+07.06	12.97 RT	13.93	PC	
11	20+95.34	12.82 RT	14.00	PT	
12	20+85.36	14.14 RT	14.06	CHANGE IN GRADE	
13	20+77.28	19.23 RT	14.17	PC	
14	20+56.65	31.03 RT	14.41	PT	

NOTE: ALL STA/OFF TAKEN FROM CURB FLOW LINE



KEY PLAN



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Department of Transportation
WASHINGTON STATE FERRIES

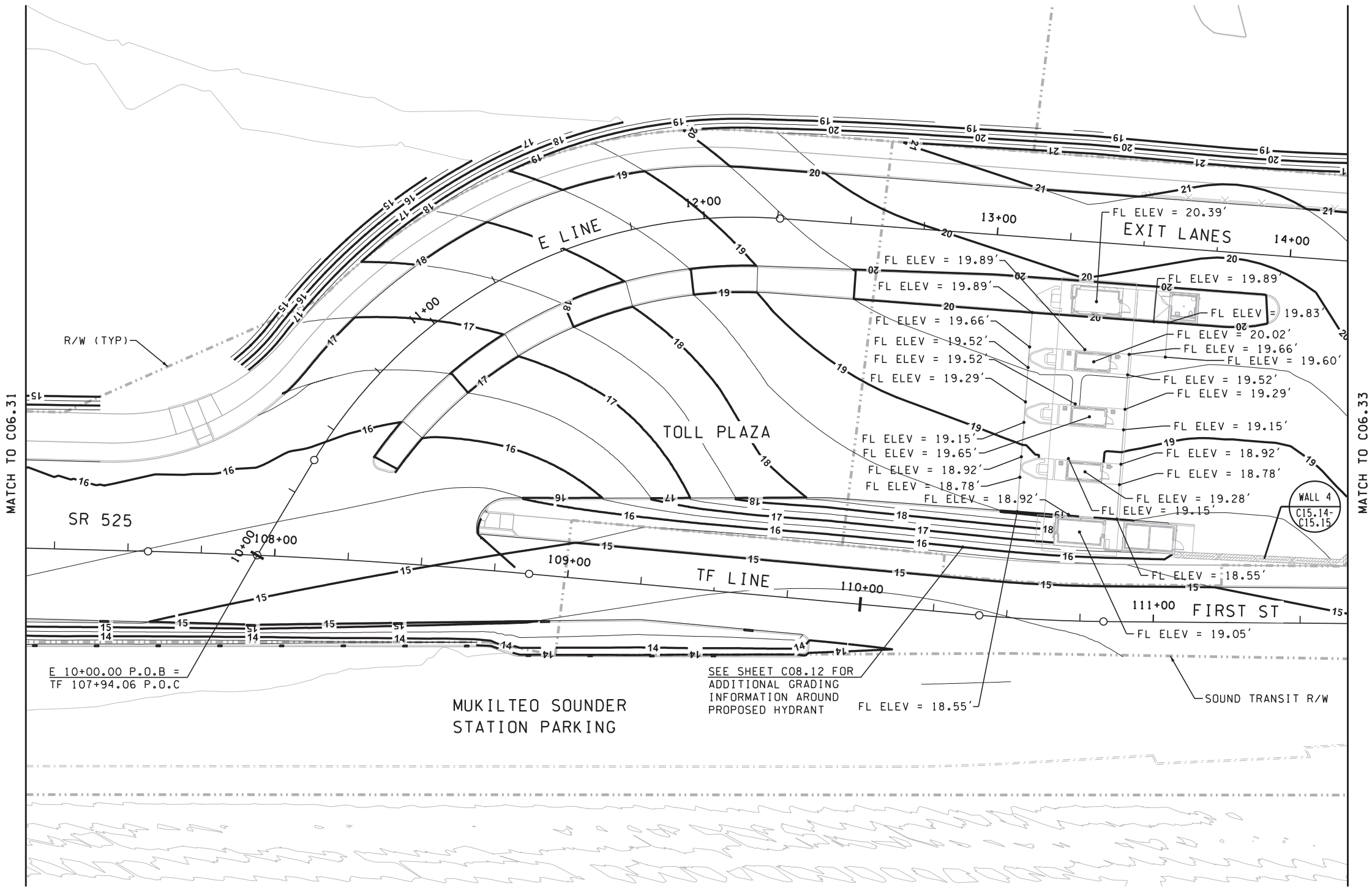
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

CONTOUR GRADING PLAN

C06.31

SHEET
139
OF
1521
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c06_31.dwg				FED.AID PROJ.NO.			
PRINTED: 8:28:17 AM 8/22/2018				WA-2017-007-00			
SUBMITTAL DATE: 08/23/18				REGION NO. STATE			
DESIGNED BY: J. SCHENKMAN				10 WASH			
ENTERED BY: C. CONRAD				JOB NUMBER			
CHECKED BY: J. SCHENKMAN				18W121			
MAR PROJ ENGR: C. TORRES				CONTRACT NO.			
DIR TERM ENGR: N. MCINTOSH				00*****			
ASST SECRETARY: A. SCARTON				REVISION			
				DATE			
				BY			

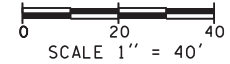
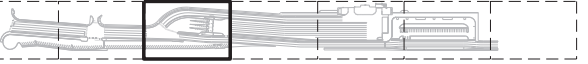


MATCH TO C06.31

MATCH TO C06.33

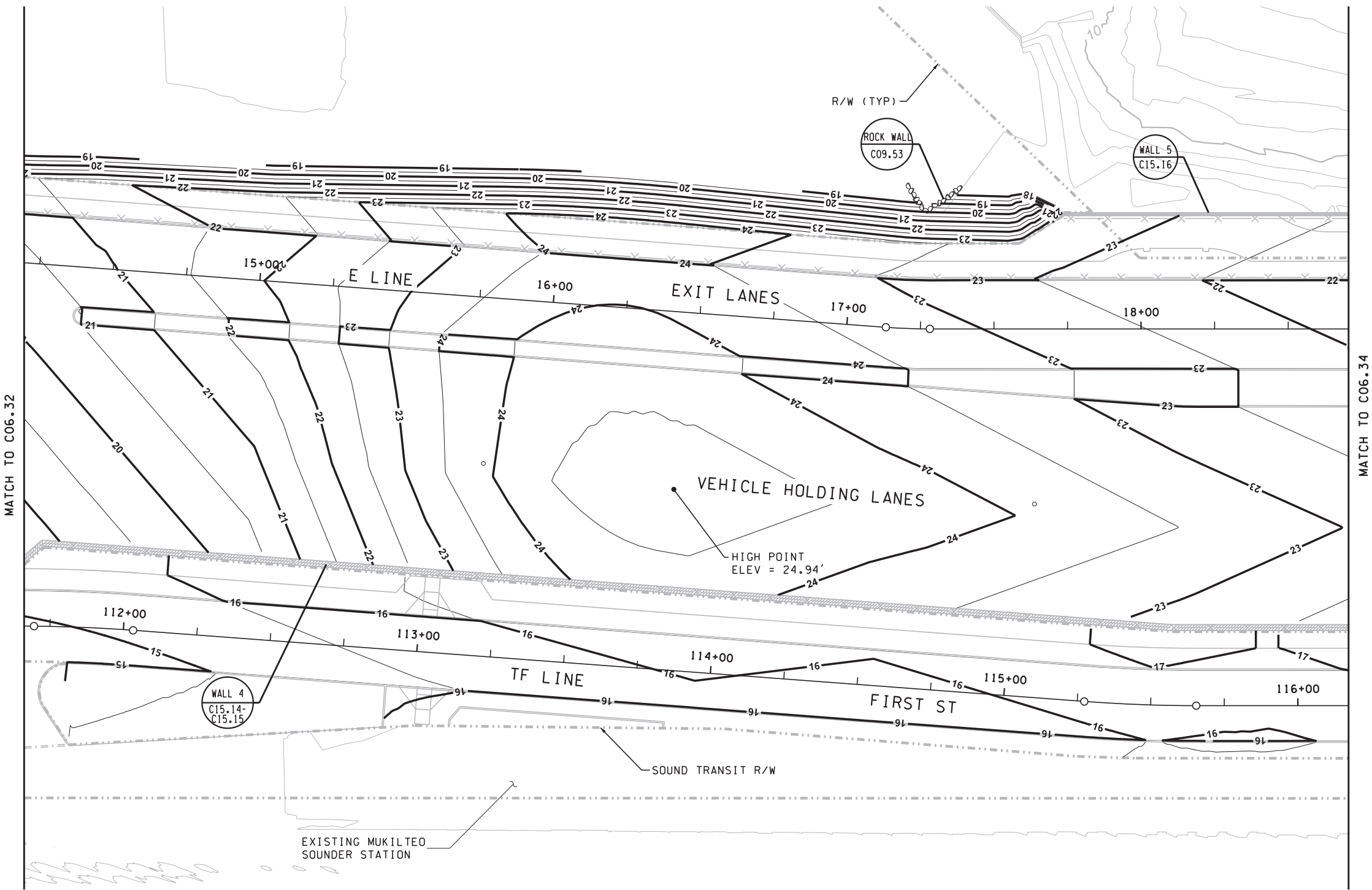
E 10+00.00 P.O.B =
TF 107+94.06 P.O.C

SEE SHEET C08.12 FOR
ADDITIONAL GRADING
INFORMATION AROUND
PROPOSED HYDRANT

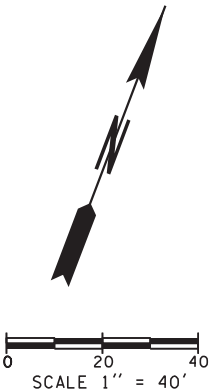


- NOTES:**
1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16
 2. SEE DRAINAGE PLANS FOR ADDITIONAL PROPOSED GRADING AND FLOW TEST REQUIREMENTS, SHEETS C07.10 TO C07.54
 3. SEE PLANTING AND IRRIGATION PLANS FOR ADDITIONAL PROPOSED GRADING, SHEETS C09.50 TO C09.64
 4. UTILITIES NOT SHOWN FOR CLARITY.
 5. EXISTING CONTOURS AT 2' INTERVALS. PROPOSED CONTOURS AT 0.5' INTERVALS.
 6. SEE PAVING PLANS FOR CURVE TABLES, SHEETS C10.10 TO C10.16
 7. SEE ADA RAMP DETAILS FOR ADA RAMP ELEVATIONS, SHEETS C10.20 TO C10.31
 8. SEE BUILDING PLANS FOR FOUNDATION DETAILS, SHEETS SX00.10 TO SX01.15
 9. SEE RETAINING WALL PLANS FOR WALL ALIGNMENTS, DESIGN & DETAILS, SHEETS C15.10 TO C15.33.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c06_32.dwg								SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION		C06.32	
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SUBMITTAL DATE: 12/22/17		LAST PRINTED BY: ConradCS		FED.AID PROJ.NO.		WA-2017-007-00		SHEET		140	
DESIGNED BY: M. PANICK		12/14/2017		REGION NO. STATE		10 WASH		OF		1521	
ENTERED BY: M. PANICK		12/14/2017		JOB NUMBER		18W121		CONTOUR GRADING PLAN		SHEETS	
CHECKED BY: P. CROWLEY		12/14/2017		CONTRACT NO.		00****					
MAR PROJ ENGR: C. TORRES				REVISION		DATE		BY			
DIR TERM ENGR: N. MCINTOSH											
ASST SECRETARY: A. SCARTON											

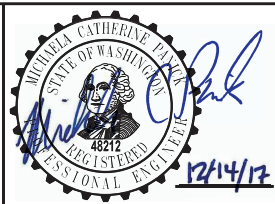


- NOTES:
1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16
 2. SEE DRAINAGE PLANS FOR ADDITIONAL PROPOSED GRADING AND FLOW TEST REQUIREMENTS, SHEETS C07.10 TO C07.54
 3. SEE PLANTING AND IRRIGATION PLANS FOR ADDITIONAL PROPOSED GRADING, SHEETS C09.50 TO C09.64
 4. UTILITIES NOT SHOWN FOR CLARITY.
 5. EXISTING CONTOURS AT 2' INTERVALS. PROPOSED CONTOURS AT 0.5' INTERVALS.
 6. SEE PAVING PLANS FOR CURVE TABLES, SHEETS C10.10 TO C10.16
 7. SEE ADA RAMP DETAILS FOR ADA RAMP ELEVATIONS, SHEETS C10.20 TO C10.31
 8. SEE BUILDING PLANS FOR FOUNDATION DETAILS, SHEETS SX00.10 TO SX01.15
 9. SEE RETAINING WALL PLANS FOR WALL ALIGNMENTS, DESIGN & DETAILS, SHEETS C15.10 TO C15.33.



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SUBMITTAL DATE: 12/22/17	Contract:			
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ENTERED BY: M. PANICK	12/14/2017			
CHECKED BY: P. CROWLEY	12/14/2017			
MAR PROJ ENGR: C. TORRES				
DIR TERM ENGR: N. MCINTOSH				
ASST SECRETARY: A. SCARTON				
REVISION	DATE	BY		

FED.AID PROJ.NO.	
WA-2017-007-00	
REGION NO. STATE	
10 WASH	
JOB NUMBER	
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CONTRACT NO.	
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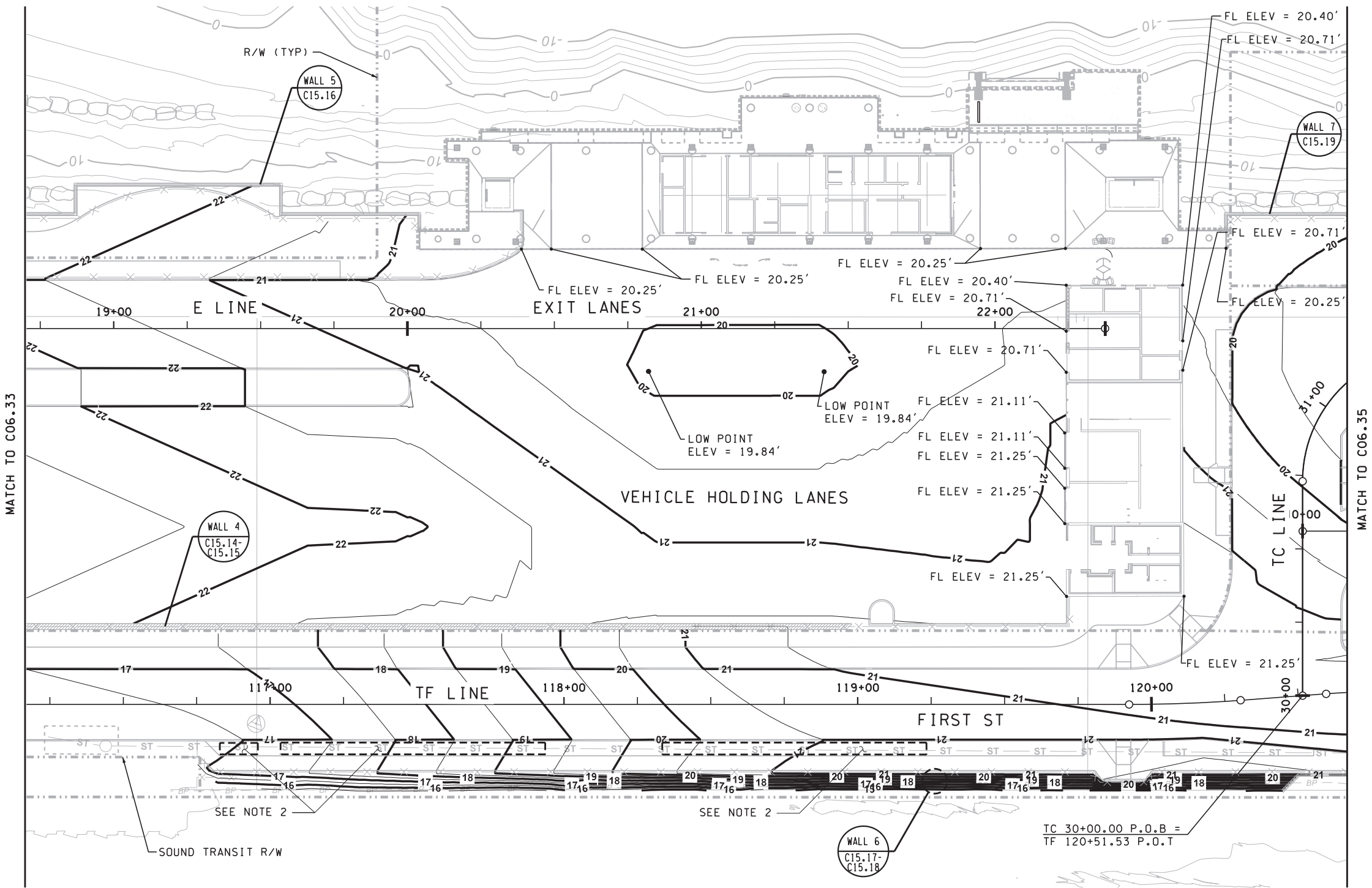
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Washington State
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WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

CONTOUR GRADING PLAN

C06.33
SHEET
141
OF
1521
SHEETS

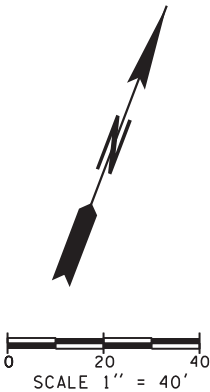


MATCH TO C06.33

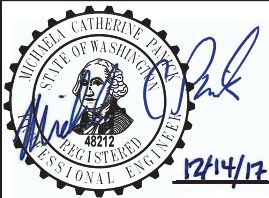
MATCH TO C06.35

NOTES:

1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16
2. SEE DRAINAGE PLANS FOR ADDITIONAL PROPOSED GRADING AND FLOW TEST REQUIREMENTS, SHEETS C07.10 TO C07.54
3. SEE PLANTING AND IRRIGATION PLANS FOR ADDITIONAL PROPOSED GRADING, SHEETS C09.50 TO C09.64
4. UTILITIES NOT SHOWN FOR CLARITY.
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8. SEE BUILDING PLANS FOR FOUNDATION DETAILS, SHEETS SX00.10 TO SX01.15
9. SEE RETAINING WALL PLANS FOR WALL ALIGNMENTS, DESIGN & DETAILS, SHEETS C15.10 TO C15.33.



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CHECKED BY: P. CROWLEY					18W121		
MAR PROJ ENGR: C. TORRES					CONTRACT NO.		
DIR TERM ENGR: N. MCINTOSH					00****		
ASST SECRETARY: A. SCARTON					REVISION		
					DATE		
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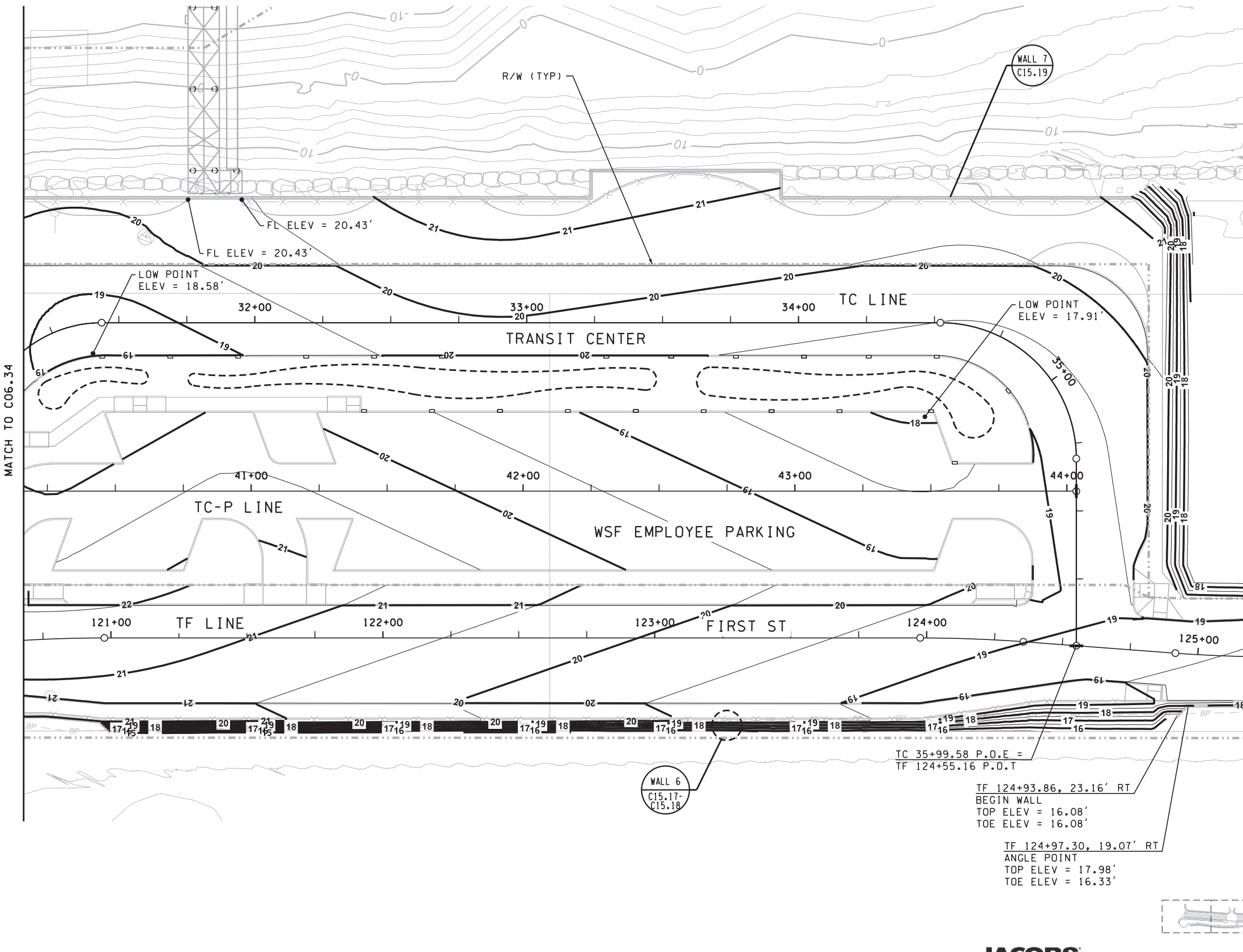
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

CONTOUR GRADING PLAN

C06.34

SHEET
142
OF
1521
SHEETS

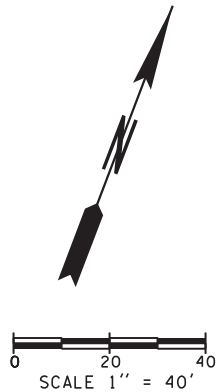


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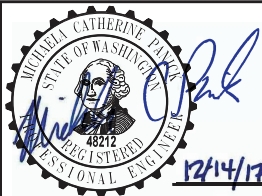
KEY PLAN



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ASST SECRETARY: A. SCARTON

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WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

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SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

CONTOUR GRADING PLAN

C06.35

SHEET

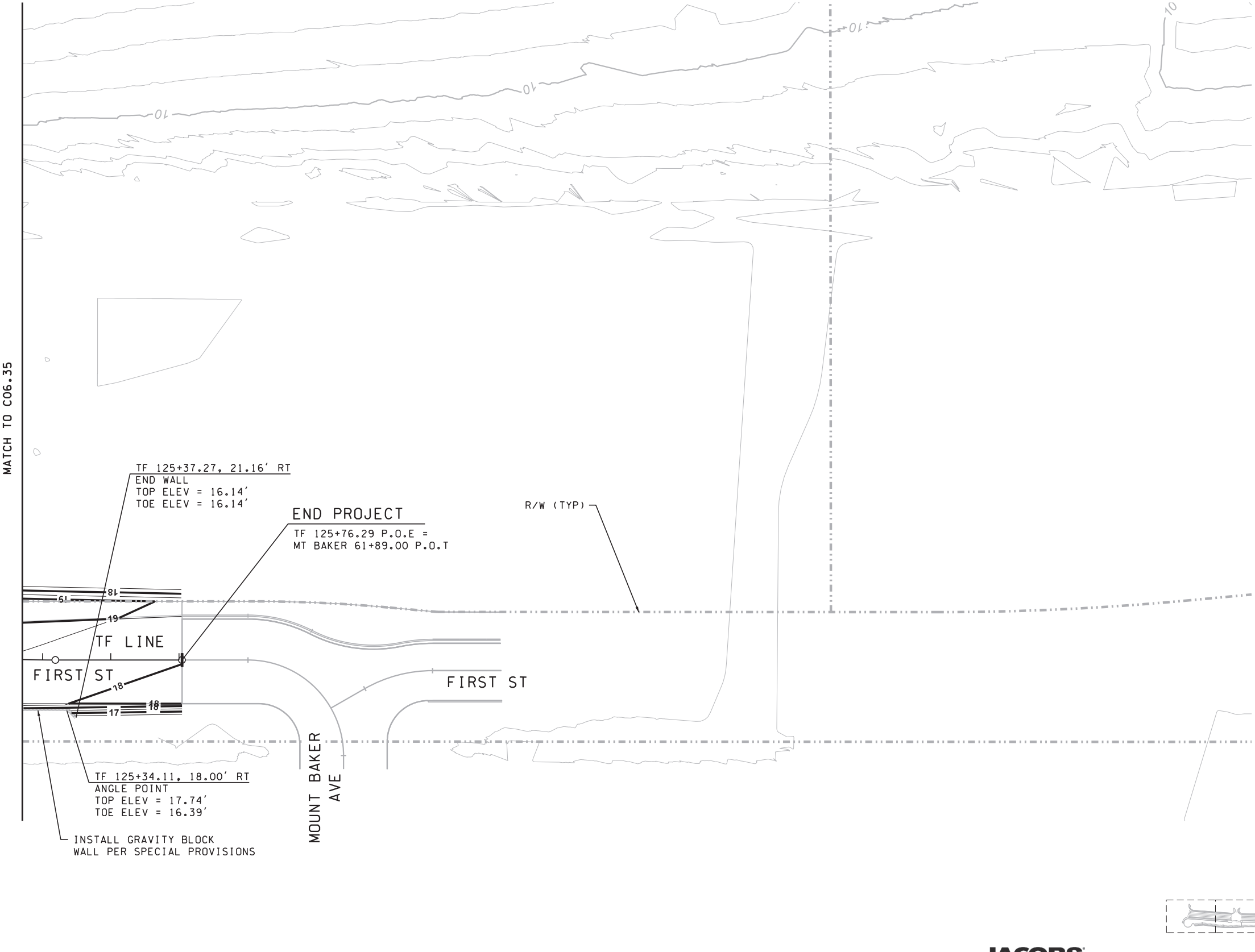
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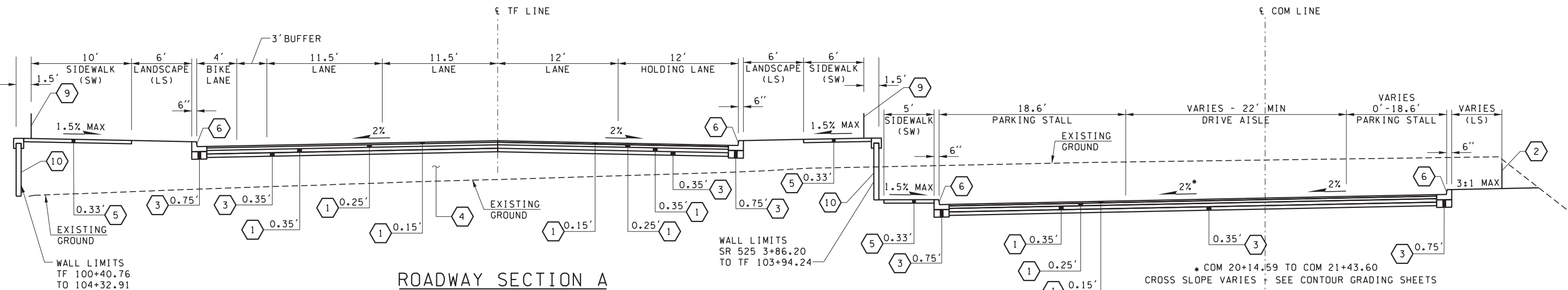
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SHEETS

- NOTES:
1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16
 2. SEE DRAINAGE PLANS FOR ADDITIONAL PROPOSED GRADING AND FLOW TEST REQUIREMENTS, SHEETS C07.10 TO C07.54
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 9. SEE RETAINING WALL PLANS FOR WALL ALIGNMENTS, DESIGN & DETAILS, SHEETS C15.10 TO C15.33.



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SUBMITTAL DATE: 12/22/17	CorradCS													144	
DESIGNED BY: M. PANICK	12/14/2017									JOB NUMBER 18W121		CONTOUR GRADING PLAN		OF	
ENTERED BY: M. PANICK	12/14/2017							1521							
CHECKED BY: P. CROWLEY	12/14/2017													SHEETS	
MAR PROJ ENGR: C. TORRES															
DIR TERM ENGR: N. MCINTOSH															
ASST SECRETARY: A. SCARTON															
		REVISION	DATE	BY	CONTRACT NO. 00****										



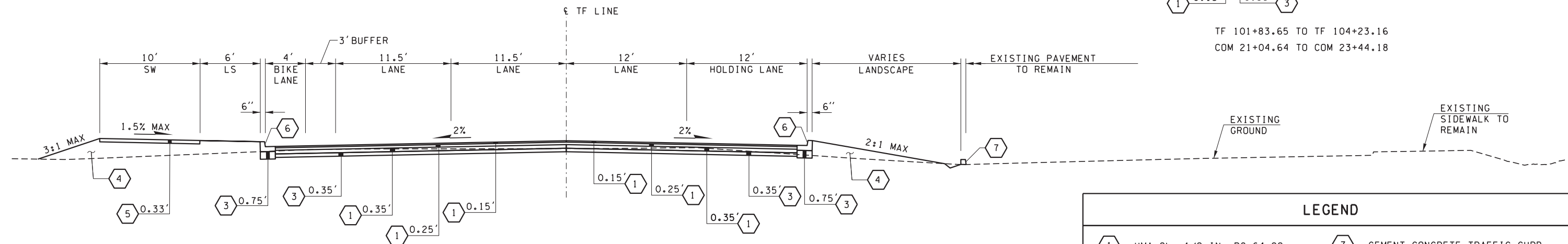
ROADWAY SECTION A

N.T.S.
TF 100+81.64 TO TF 104+23.16
COM 21+43.60 TO COM 24+46.20

* CROSS SLOPE VARIES TO MATCH EXISTING
ELEVATION TF 100+81.64 TO TF 101+91.07

GENERAL NOTES:

- SEE ROADWAY PROFILE SHEETS FOR SUPER ELEVATION INFORMATION, SHEETS C06.20 TO C06.24.
- SEE PAVING PLANS FOR ADDITIONAL INFORMATION AND INTERSECTIONS WITH DRIVEWAYS AND ROADS, SHEETS C10.10 TO C10.16.
- SEE DRAINAGE PLAN SHEETS C07.10 TO C07.16 AND C07.30 TO C07.47 AND LANDSCAPE PLANS C09.60 TO C09.64 FOR ADDITIONAL INFORMATION REGARDING THE LANDSCAPE AREAS.
- UTILITIES NOT SHOWN. SEE UTILITY PLANS FOR HORIZONTAL AND VERTICAL LOCATION OF UTILITIES.
- SEE WALL PLANS FOR WALL TYPE, BARRIERS AND PEDESTRIAN RAIL LOCATIONS AND TYPES, SEE SHEETS C15.10 TO C15.33.
- SEE BUILDING PLANS FOR BUILDING FOUNDATIONS AND LOCATIONS, SHEETS SB02.00 TO SB02.04 AND SB02.50 TO SB02.52.
- SEE CONTOUR GRADING PLANS FOR ADDITIONAL INFORMATION, SHEETS C06.30 TO C06.36.
- SEE SUBSURFACE GRADING DETAILS FOR INFORMATION REGARDING IMPERMEABLE LINEAR AND UNDER DRAIN, SHEETS C07.48 TO C07.49.
- SEE SR525 MUKILTEO MULTIMODAL TERMINAL - PHASE 2 PAVEMENT DESIGN REPORT (SUPPLEMENT) FOR ADDITIONAL INFORMATION ON PAVEMENT SECTIONS.



ROADWAY SECTION B

N.T.S.
TF 105+21.80 TO TF 107+41.98

LEGEND

- | | |
|---|--|
| 1 HMA CL. 1/2 IN. PG 64-22 | 7 CEMENT CONCRETE TRAFFIC CURB |
| 2 FENCE | 9 PEDESTRIAN RAILING OR FENCE (SEE STRUCTURES DETAILS) |
| 3 CRUSHED SURFACING BASE COURSE | 10 RETAINING WALL (SEE WALL PLANS FOR TYPE) |
| 4 COMMON BORROW INCLUDING HAUL | |
| 5 CEMENT CONCRETE | |
| 6 CEMENT CONCRETE TRAFFIC CURB & GUTTER | |

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MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

ConradCS

8/22/2018

8/22/2018

8/22/2018

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DATE

BY

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PROJ.NO.

WA-2017-007-00

REGION NO. STATE

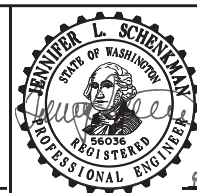
10 WASH

JOB NUMBER

18W121

CONTRACT NO.

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8/21/2018

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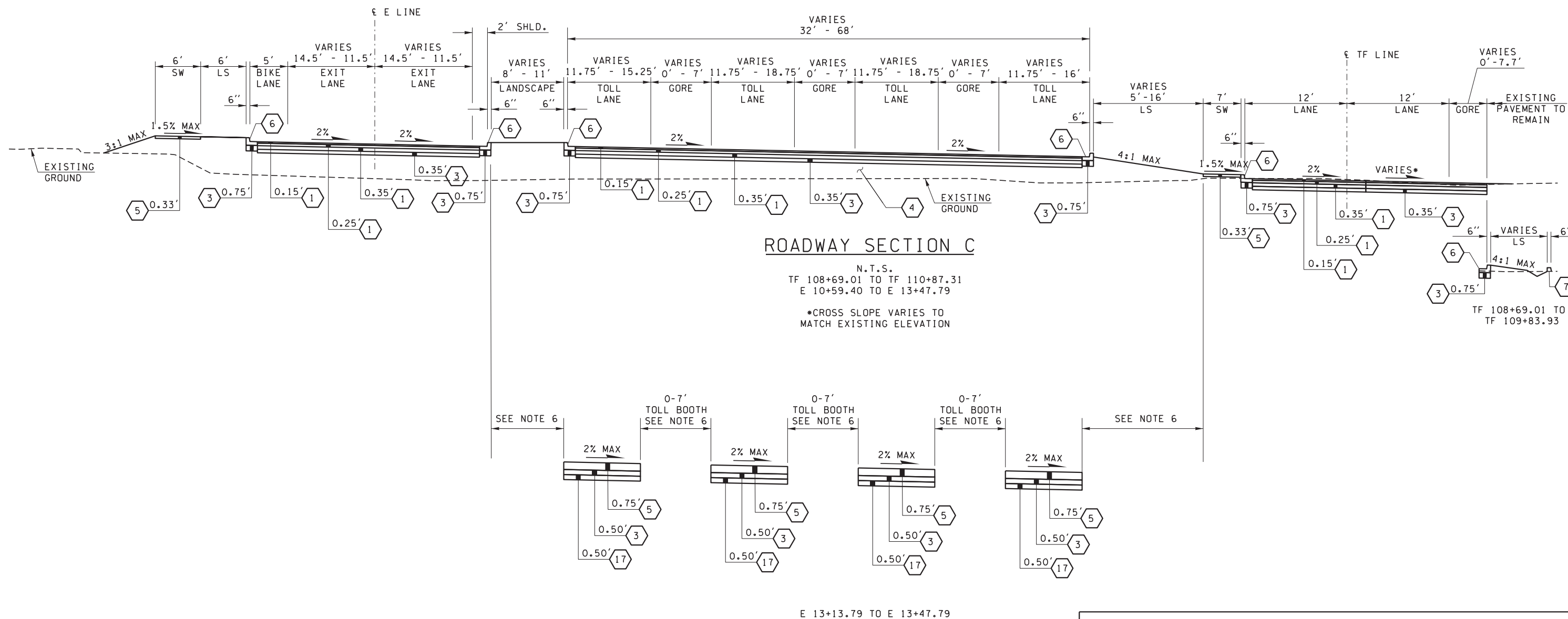
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

ROADWAY SECTIONS

C06.40

SHEET
145
OF
1521
SHEETS



GENERAL NOTES:

- SEE ROADWAY PROFILE SHEETS FOR SUPER ELEVATION INFORMATION, SHEETS C06.20 TO C06.24.
- SEE PAVING PLANS FOR ADDITIONAL INFORMATION AND INTERSECTIONS WITH DRIVEWAYS AND ROADS, SHEETS C10.10 TO C10.16.
- SEE DRAINAGE PLAN SHEETS C07.10 TO C07.16 AND C07.30 TO C07.47 AND LANDSCAPE PLANS C09.60 TO C09.64 FOR ADDITIONAL INFORMATION REGARDING THE LANDSCAPE AREAS.
- UTILITIES NOT SHOWN. SEE UTILITY PLANS FOR HORIZONTAL AND VERTICAL LOCATION OF UTILITIES.
- SEE WALL PLANS FOR WALL TYPE, BARRIERS AND PEDESTRIAN RAIL LOCATIONS AND TYPES, SEE SHEETS C15.10 TO C15.33.
- SEE BUILDING PLANS FOR BUILDING FOUNDATIONS AND LOCATIONS, SHEETS SB02.00 TO SB02.04 AND SB02.50 TO SB02.52.
- SEE CONTOUR GRADING PLANS FOR ADDITIONAL INFORMATION, SHEETS C06.30 TO C06.36.
- SEE SUBSURFACE GRADING DETAILS FOR INFORMATION REGARDING IMPERMEABLE LINEAR AND UNDER DRAIN, SHEETS C07.48 TO C07.49.
- SEE SR525 MUKILTEO MULTIMODAL TERMINAL - PHASE 2 PAVEMENT DESIGN REPORT (SUPPLEMENT) FOR ADDITIONAL INFORMATION ON PAVEMENT SECTIONS.

LEGEND

- 1 HMA CL. 1/2 IN. PG 64-22
- 3 CRUSHED SURFACING BASE COURSE
- 4 COMMON BORROW INCLUDING HAUL
- 5 CEMENT CONCRETE
- 6 CEMENT CONCRETE TRAFFIC CURB & GUTTER
- 7 CEMENT CONCRETE TRAFFIC CURB
- 17 COMPACTED SUB-GRADE

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MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

ConradCS

12/14/2017

12/14/2017

12/14/2017

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BY

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REGION NO. STATE

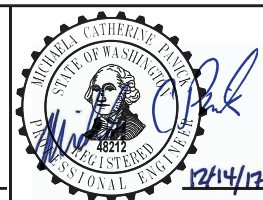
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CONTRACT NO.

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JACOBS



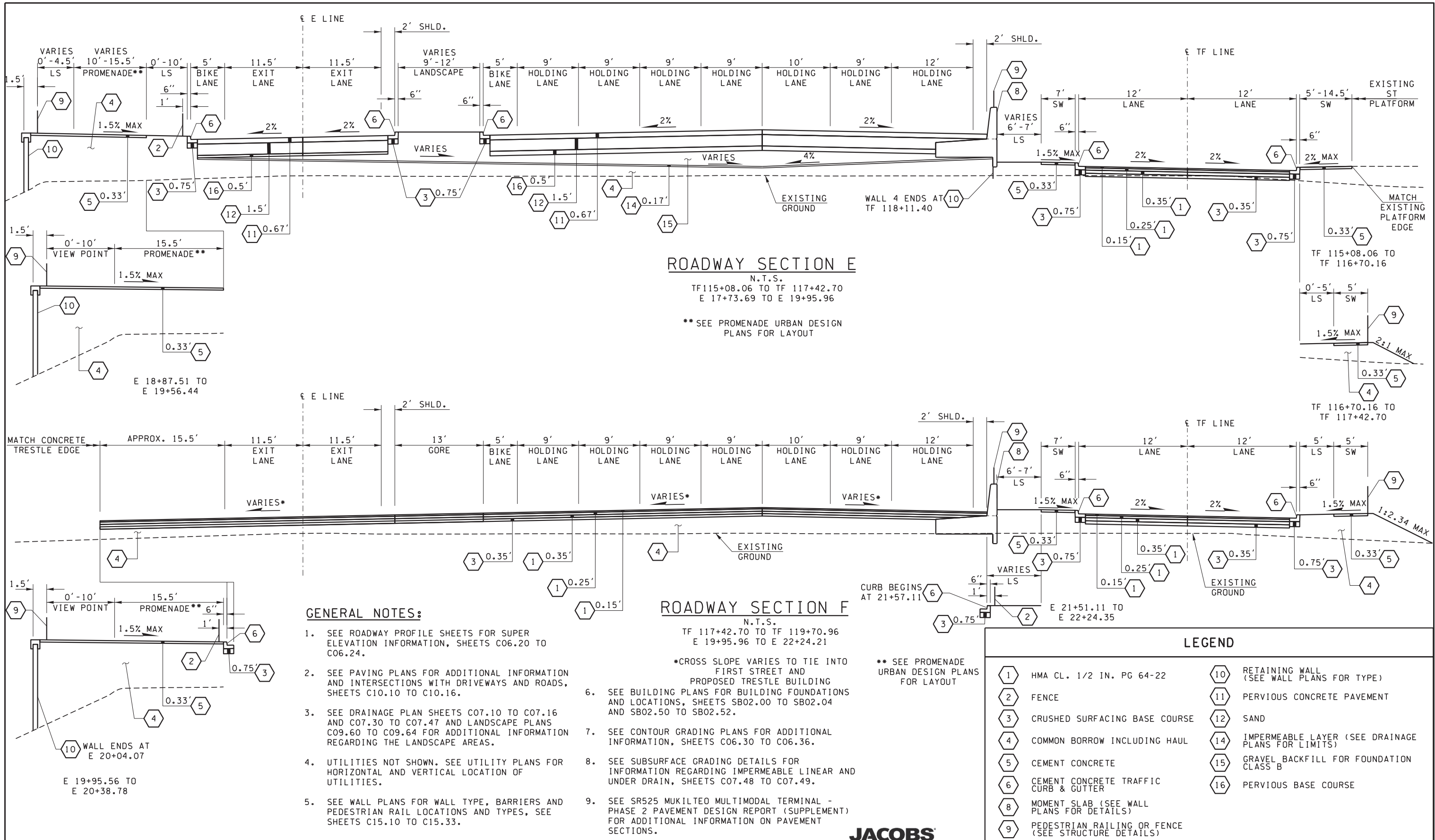
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

ROADWAY SECTIONS

C06.41

SHEET
146
OF
1521
SHEETS



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DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

ConradCS

8/22/2018

8/22/2018

8/22/2018

REVISION

DATE

BY

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PROJ.NO.

WA-2017-007-00

REGION NO. STATE

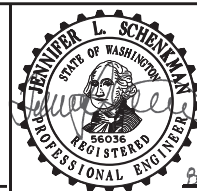
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CONTRACT NO.

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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
ROADWAY SECTIONS

C06.43

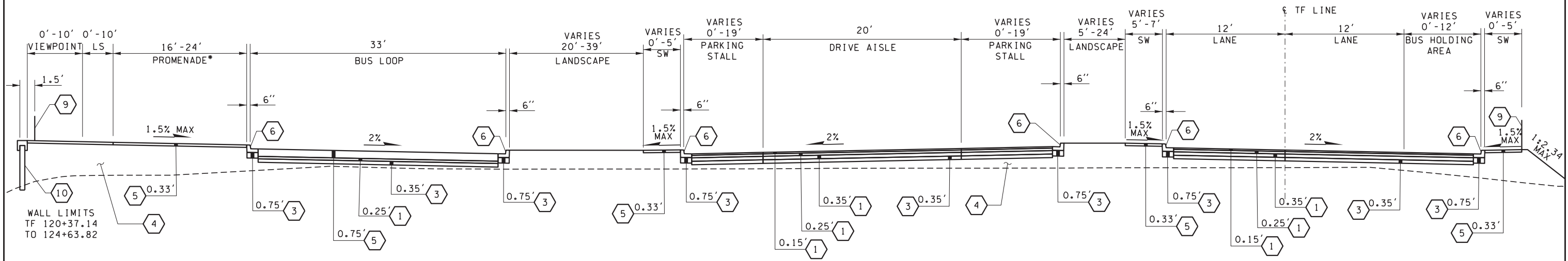
SHEET

148

OF

1521

SHEETS



ROADWAY SECTION G

N.T.S.
TF 120+70.30 TO 124+33.17
TC 31+43.68 TO TC 34+52.17

*SEE PROMENADE URBAN DESIGN
PLANS FOR LAYOUT

GENERAL NOTES:

1. SEE ROADWAY PROFILE SHEETS FOR SUPER ELEVATION INFORMATION, SHEETS C06.20 TO C06.24.

2. SEE PAVING PLANS FOR ADDITIONAL INFORMATION AND INTERSECTIONS WITH DRIVEWAYS AND ROADS, SHEETS C10.10 TO C10.16.

3. SEE DRAINAGE PLAN SHEETS C07.10 TO C07.16 AND C07.30 TO C07.47 AND LANDSCAPE PLANS C09.60 TO C09.64 FOR ADDITIONAL INFORMATION REGARDING THE LANDSCAPE AREAS.
4. UTILITIES NOT SHOWN. SEE UTILITY PLANS FOR HORIZONTAL AND VERTICAL LOCATION OF UTILITIES.

5. SEE WALL PLANS FOR WALL TYPE, BARRIERS AND PEDESTRIAN RAIL LOCATIONS AND TYPES, SEE SHEETS C15.10 TO C15.33.

6. SEE BUILDING PLANS FOR BUILDING FOUNDATIONS AND LOCATIONS, SHEETS SB02.00 TO SB02.04 AND SB02.50 TO SB02.52.

7. SEE CONTOUR GRADING PLANS FOR ADDITIONAL INFORMATION, SHEETS C06.30 TO C06.36.
8. SEE SUBSURFACE GRADING DETAILS FOR INFORMATION REGARDING IMPERMEABLE LINEAR AND UNDER DRAIN, SHEETS C07.48 TO C07.49.

9. SEE SR525 MUKILTEO MULTIMODAL TERMINAL - PHASE 2 PAVEMENT DESIGN REPORT (SUPPLEMENT) FOR ADDITIONAL INFORMATION ON PAVEMENT SECTIONS.

LEGEND

- 1

HMA CL. 1/2 IN. PG 64-22
- 3

CRUSHED SURFACING BASE COURSE
- 4

COMMON BORROW INCLUDING HAUL
- 5

CEMENT CONCRETE
- 6

CEMENT CONCRETE TRAFFIC CURB & GUTTER
- 9

PEDESTRIAN RAILING OR FENCE (SEE STRUCTURE DETAILS)
- 10

RETAINING WALL (SEE WALL PLANS FOR TYPE)

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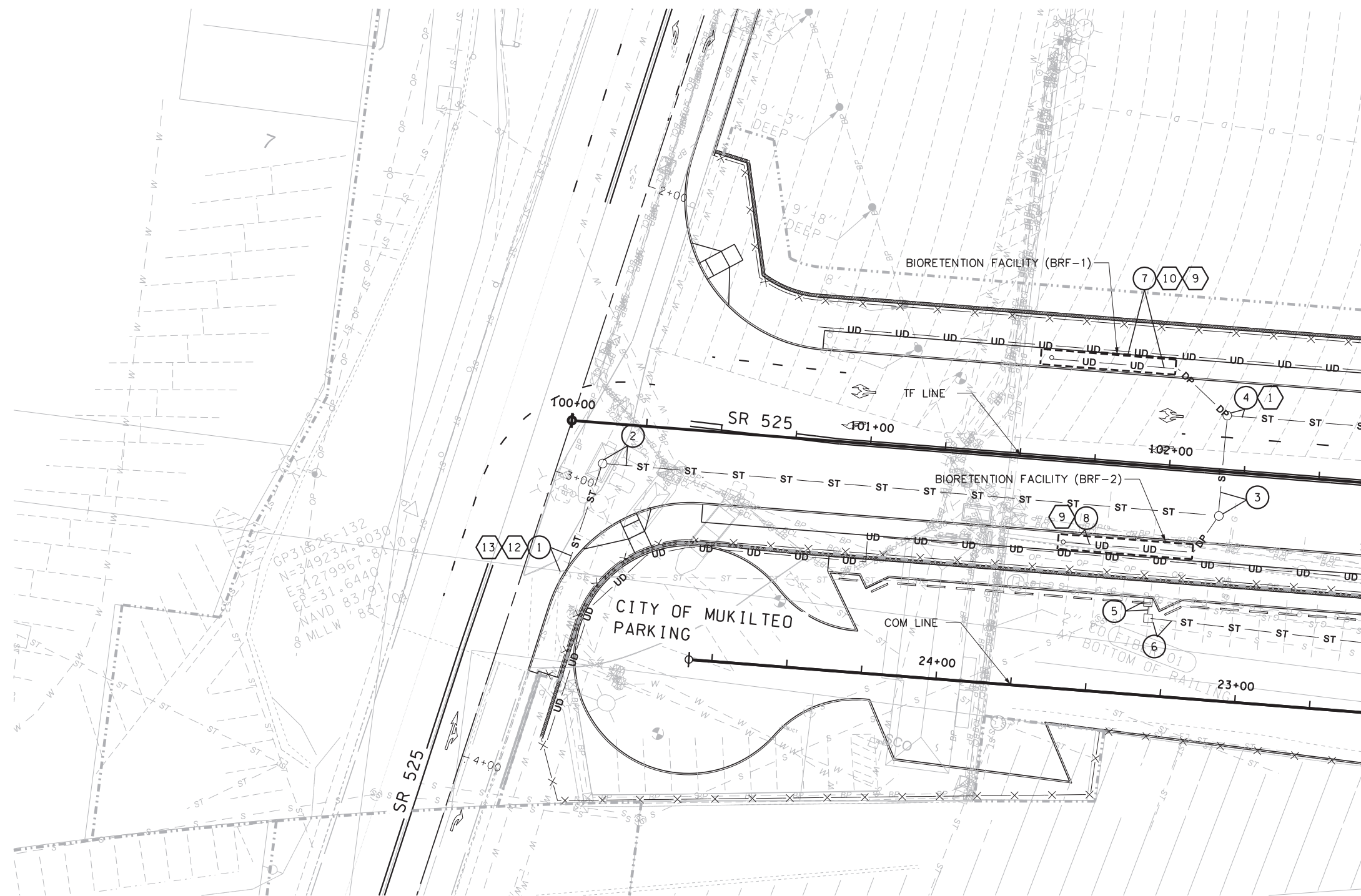
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DESIGNED BY: P. CROWLEY	12/14/2017				REGION NO. STATE
ENTERED BY: D. PERRY	12/14/2017				10 WASH
CHECKED BY: M. PANICK	12/14/2017				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00*****
	REVISION	DATE	BY		



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

ROADWAY SECTIONS

C06.44
SHEET
149
OF
1521
SHEETS



CONSTRUCTION NOTES:

- 1 CONNECT UNDERDRAIN TO CATCH BASIN
- 9 INSTALL IN LINE BACKFLOW VALVE BETWEEN STRUCTURE AND TREATMENT FACILITY
- 10 INSTALL 45°JOINT TO CONNECT UNDERDRAIN TO CB
- 12 CONNECT PROPOSED PIPE TO EXISTING STRUCTURE
- 13 PIPE TO BE HDPE MATERIAL

GENERAL NOTES:

- 1. SEE SHEETS C06.10 TO C06.16 FOR ALIGNMENT INFORMATION
- 2. SEE SECTION 1-07.6 PROTECTED SPECIES MONITORING
- 3. SEE SHEET C03.01 TO C03.16 FOR TESC PLAN DETAILS
- 4. SEE SECTION 8-01 TURBIDITY AND DEBRIS CONTROL, WATER QUALITY MONITORING, AND OFF-SHORE TESC PLANS.
- 5. INSTALL IMPERMEABLE LINER BELOW PERVIOUS PAVEMENT LIMITS. SEE SHEET C07.48 AND C07.49.
- 6. CONNECT DRAIN FROM TRESSEL TRENCH DRAIN TO PROPOSED GRIT CHAMBER. SEE SHEET C07.46 FOR GRIT CHAMBER DETAIL.

LEGEND:

- UD UNDERDRAIN LINE
- ST STORM SEWER
- DP DRAIN LINE
- BIORETENTION FACILITY (BRF-X)
- MWS MODULAR WETLANDS SYSTEM (MWS-X)
- CATCH BASIN
- MANHOLE
- CLEANOUT
- TRENCH DRAIN



KEY PLAN

SCALE 1" = 40'

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SUBMITTAL DATE: 8/23/2018			
DESIGNED BY: R. NAIDU	12/22/2017		
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CHECKED BY: C. MIRKIN	12/22/2017		
MAR PROJ ENGR: C. TORRES			
DIR TERM ENGR: N. MCINTOSH			
ASST SECRETARY: A. SCARTON			
REVISION	DATE	BY	
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REGION NO. STATE 10 WASH			
JOB NUMBER 18W121			
CONTRACT NO. 00*****			

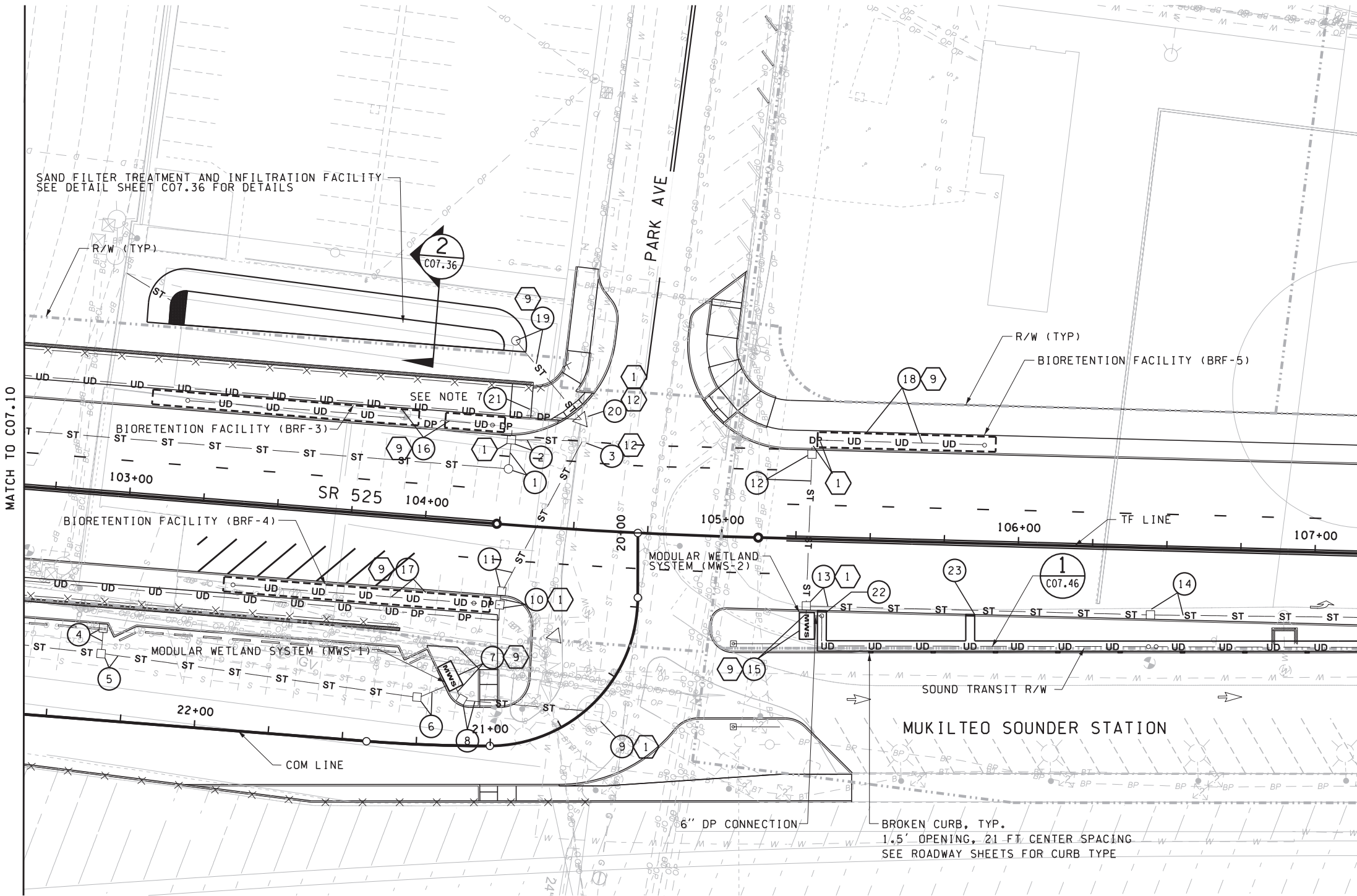


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

DRAINAGE PLAN

C07.10

SHEET
150
OF
1521
SHEETS



CONSTRUCTION NOTES:

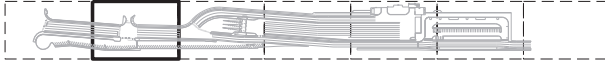
- 1 CONNECT UNDERDRAIN TO CATCH BASIN
- 9 INSTALL IN LINE BACKFLOW VALVE BETWEEN STRUCTURE AND TREATMENT FACILITY
- 10 INSTALL 45° JOINT TO CONNECT UNDERDRAIN TO CB
- 12 CONNECT PROPOSED PIPE TO EXISTING STRUCTURE

GENERAL NOTES:

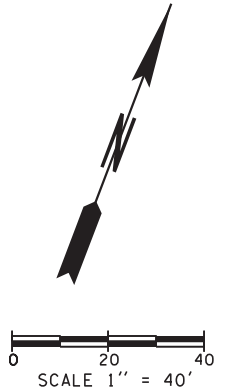
- 1. SEE SHEETS C06.10 TO C06.16 FOR ALIGNMENT INFORMATION
- 2. SEE SECTION 1-07.6 PROTECTED SPECIES MONITORING
- 3. SEE SHEET C03.01 TO C03.16 FOR TESC PLAN DETAILS
- 4. SEE SECTION 8-01 TURBIDITY AND DEBRIS CONTROL, WATER QUALITY MONITORING, AND OFF-SHORE TESC PLANS.
- 5. INSTALL IMPERMEABLE LINER BELOW PERVIOUS PAVEMENT LIMITS. SEE SHEET C07.48 AND C07.49.
- 6. CONNECT DRAIN FROM TRESSEL TRENCH DRAIN TO PROPOSED GRIT CHAMBER. SEE SHEET C07.46 FOR GRIT CHAMBER DETAIL.

LEGEND:

- UD UNDERDRAIN LINE
- ST STORM SEWER
- DP DRAIN LINE
- BIORETENTION FACILITY (BRF-X)
- MWS MODULAR WETLANDS SYSTEM (MWS-X)
- CATCH BASIN
- MANHOLE
- CLEANOUT
- TRENCH DRAIN
- CULVERT



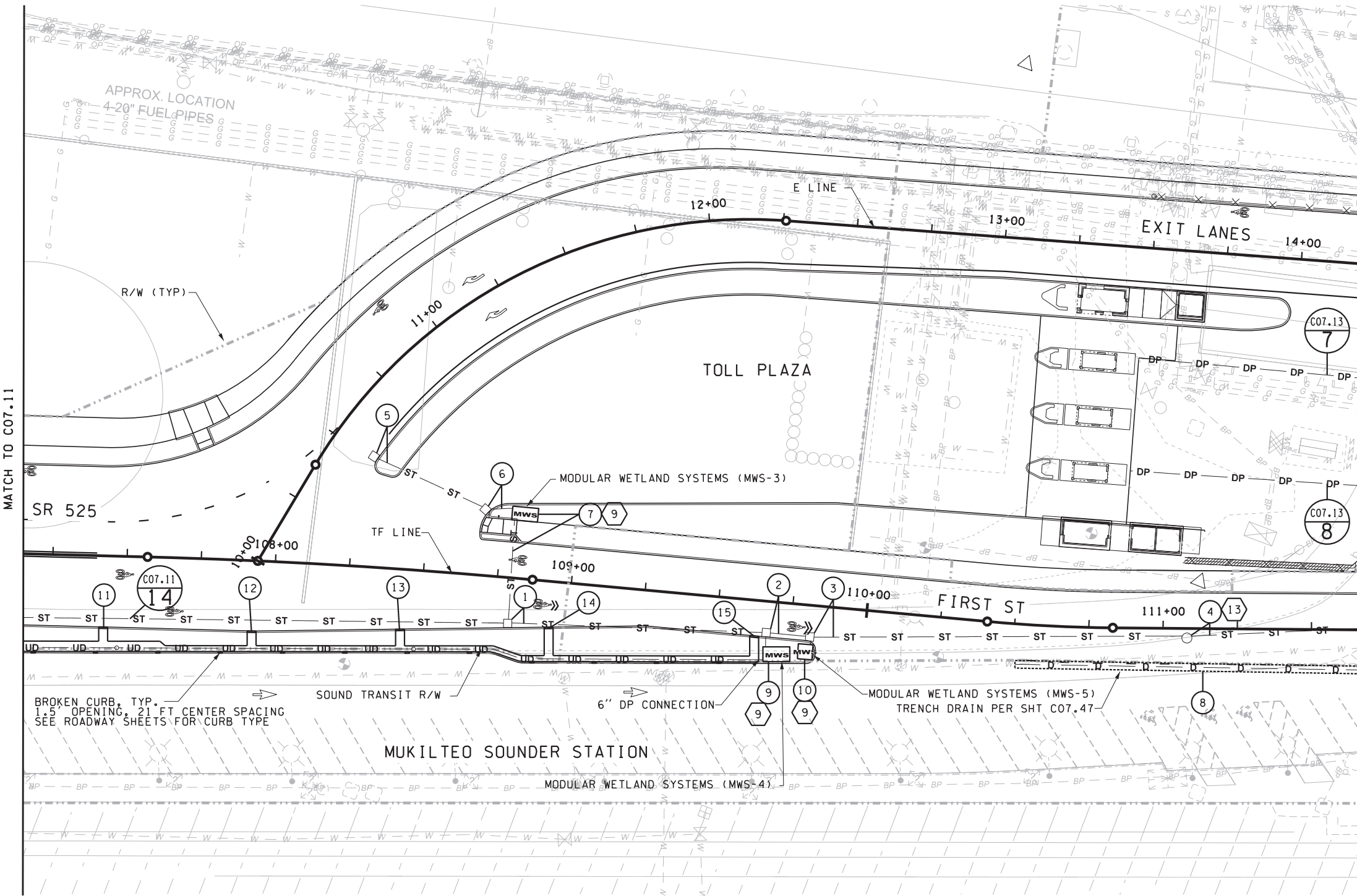
KEY PLAN



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
DRAINAGE PLAN

C07.11
SHEET
151
OF
1521
SHEETS

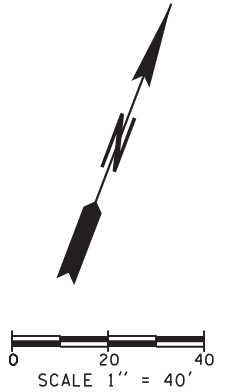
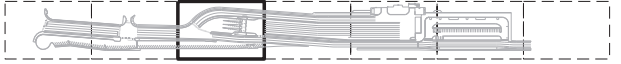
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SUBMITTAL DATE: 8/23/2018				*-WA-*
DESIGNED BY: R. NAIDU	12/22/2017			REGION NO. STATE
ENTERED BY: C. BENNETT	12/22/2017			10 WASH
CHECKED BY: C. MIRKIN	12/22/2017			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00****
	REVISION	DATE	BY	



- CONSTRUCTION NOTES:**
- 1 CONNECT UNDERDRAIN TO CATCH BASIN
 - 9 INSTALL IN LINE BACKFLOW VALVE BETWEEN STRUCTURE AND TREATMENT FACILITY
 - 11 CONNECT TO ROOF DRAIN

- GENERAL NOTES:**
- 1. SEE SHEETS C06.10 TO C06.16 FOR ALIGNMENT INFORMATION
 - 2. SEE SECTION 1-07.6 PROTECTED SPECIES MONITORING
 - 3. SEE SHEET C03.01 TO C03.16 FOR TESC PLAN DETAILS
 - 4. SEE SECTION 8-01 TURBIDITY AND DEBRIS CONTROL, WATER QUALITY MONITORING, AND OFF-SHORE TESC PLANS.
 - 5. INSTALL IMPERMEABLE LINER BELOW PERVIOUS PAVEMENT LIMITS. SEE SHEET C07.48 AND C07.49.
 - 6. CONNECT DRAIN FROM TRESSEL TRENCH DRAIN TO PROPOSED GRIT CHAMBER. SEE SHEET C07.46 FOR GRIT CHAMBER DETAIL.

- LEGEND:**
- UD UNDERDRAIN LINE
 - ST STORM SEWER
 - DP DRAIN LINE
 - BRF-X BIORETENTION FACILITY (BRF-X)
 - MWS MODULAR WETLANDS SYSTEM (MWS-X)
 - CATCH BASIN
 - MANHOLE
 - CLEANOUT
 - TRENCH DRAIN



FILE NAME: WSW\Mukilteo\CADD\WORKING\CM-DESIGN\14w121_c07_12.dwg			
PRINTED: 4:09:03 PM 9/21/2018	LAST PRINTED BY: chester		
SUBMITTAL DATE: 8/23/2018			
DESIGNED BY: R. NAIDU	12/22/2017		FED.AID PROJ.NO. *- WA - **
ENTERED BY: C. BENNETT	12/22/2017		REGION NO. STATE 10 WASH
CHECKED BY: C. MIRKIN	12/22/2017		JOB NUMBER 18W121
MAR PROJ ENGR: C. TORRES			CONTRACT NO. 00****
DIR TERM ENGR: N. MCINTOSH			
ASST SECRETARY: A. SCARTON	REVISION	DATE	BY



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

DRAINAGE PLAN

C07.12
SHEET 152 OF 1521 SHEETS

CONSTRUCTION NOTES:

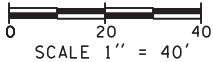
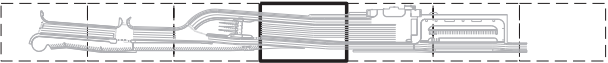
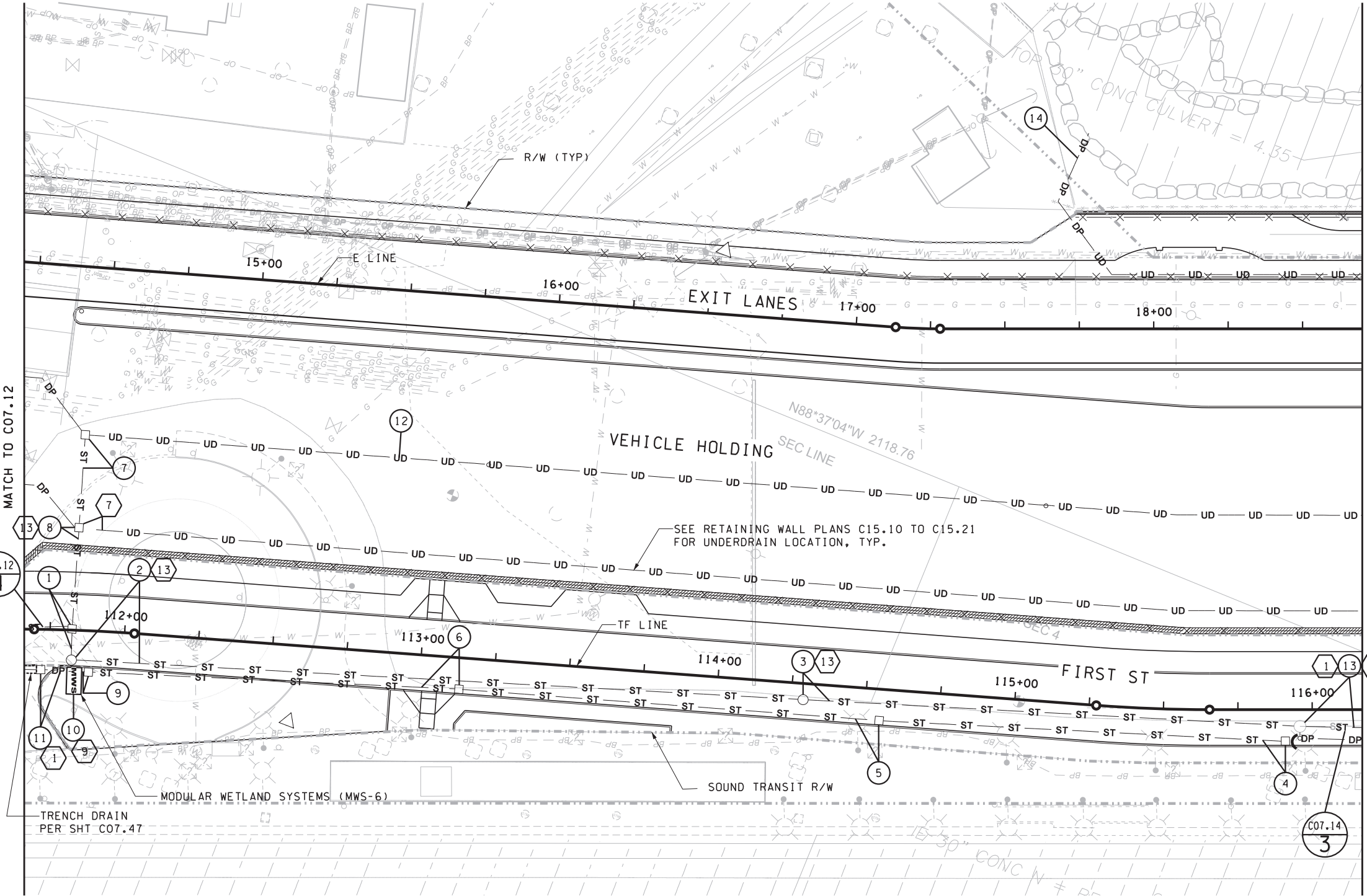
- 1 CONNECT UNDERDRAIN TO CATCH BASIN
- 7 CONNECT WALL DRAIN TO CATCH BASIN
- 9 INSTALL IN LINE BACKFLOW CHECK VALVE BETWEEN STRUCTURE AND TREATMENT FACILITY
- 12 CONNECT PROPOSED PIPE TO EXISTING STRUCTURE
- 13 PIPE TO BE HDPE MATERIAL

GENERAL NOTES:

- 1. SEE SHEETS C06.10 TO C06.16 FOR ALIGNMENT INFORMATION
- 2. SEE SECTION 1-07.6 PROTECTED SPECIES MONITORING
- 3. SEE SHEET C03.01 TO C03.16 FOR TESC PLAN DETAILS
- 4. SEE SECTION 8-01 TURBIDITY AND DEBRIS CONTROL, WATER QUALITY MONITORING, AND OFF-SHORE TESC PLANS.
- 5. INSTALL IMPERMEABLE LINER BELOW PERVIOUS PAVEMENT LIMITS. SEE SHEET C07.48 AND C07.49.
- 6. CONNECT DRAIN FROM TRESSEL TRENCH DRAIN TO PROPOSED GRIT CHAMBER. SEE SHEET C07.46 FOR GRIT CHAMBER DETAIL.

LEGEND:

- UD UNDERDRAIN LINE
- ST STORM SEWER
- DP DRAIN LINE
- BIORETENTION FACILITY (BRF-X)
- MWS MODULAR WETLANDS SYSTEM (MWS-X)
- CATCH BASIN
- MANHOLE
- CLEANOUT
- TRENCH DRAIN



FILE NAME: WSW\Mukilteo\CADD\WORKING\CM-DESIGN\14w121.c07.13.dwg			
PRINTED: 4:11:00 PM 9/21/2018	LAST PRINTED BY: chester		FED.AID PROJ.NO.
SUBMITTAL DATE: 8/23/2018			*-WA-*
DESIGNED BY: R. NAIDU	12/22/2017		REGION NO. STATE
ENTERED BY: C. BENNETT	12/22/2017		10 WASH
CHECKED BY: C. MIRKIN	12/22/2017		JOB NUMBER
MAR PROJ ENGR: C. TORRES			18W121
DIR TERM ENGR: N. MCINTOSH			CONTRACT NO.
ASST SECRETARY: A. SCARTON			00*****
	REVISION	DATE	BY



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
DRAINAGE PLAN

C07.13
SHEET
153
OF
1521
SHEETS

CONSTRUCTION NOTES:

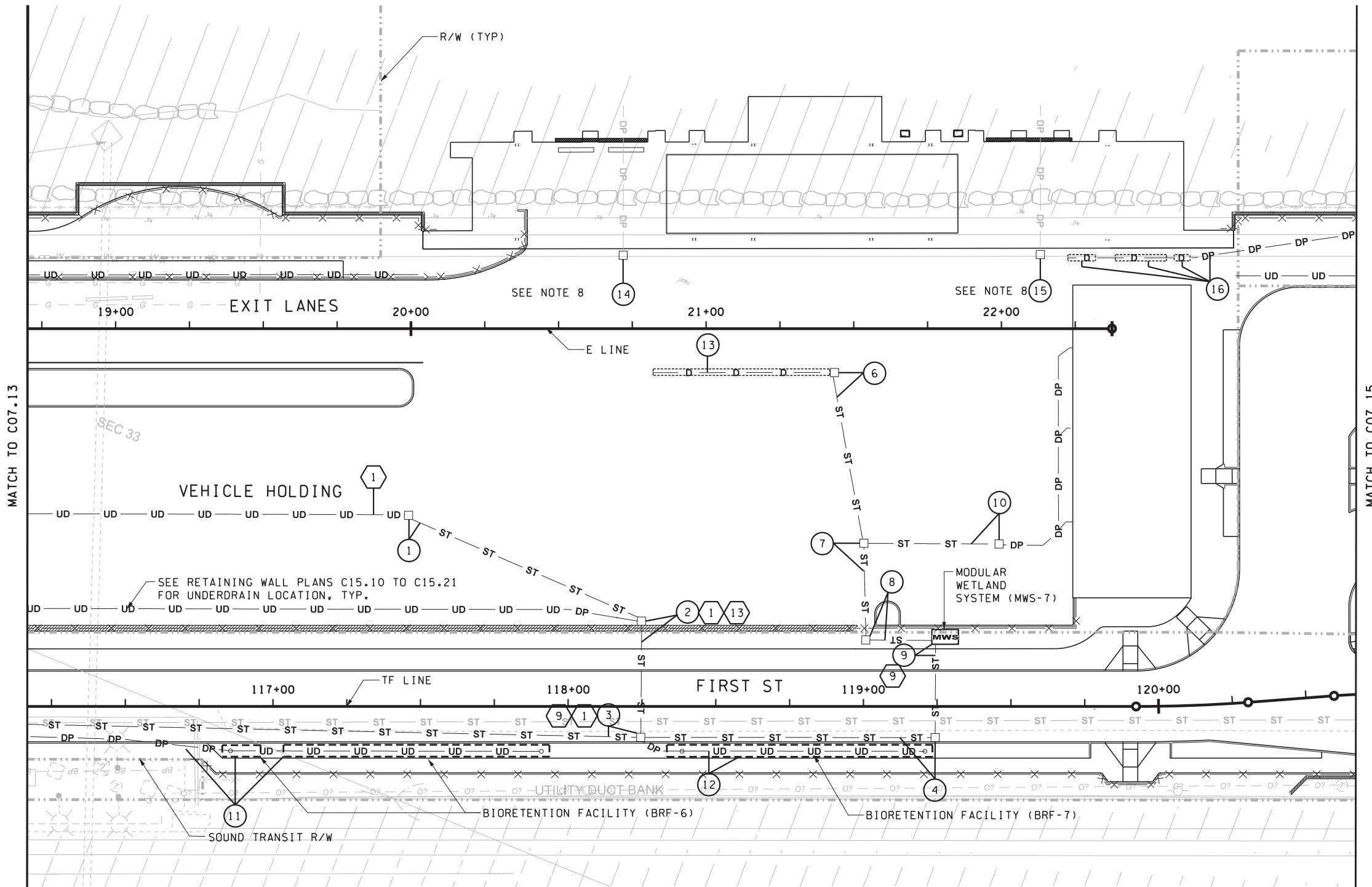
- 1 CONNECT UNDERDRAIN TO CATCH BASIN
- 5 CONNECT TRENCH DRAIN TO CATCH BASIN
- 6 DAYLIGHT DRAIN PIPE
- 7 CONNECT WALL DRAIN TO CATCH BASIN
- 9 INSTALL IN LINE BACKFLOW CHECK VALVE BETWEEN STRUCTURE AND TREATMENT FACILITY
- 12 CONNECT PROPOSED PIPE TO EXISTING STRUCTURE

GENERAL NOTES:

1. SEE SHEETS C06.10 TO C06.16 FOR ALIGNMENT INFORMATION
2. SEE SECTION 1-07.6 PROTECTED SPECIES MONITORING
3. SEE SHEET C03.01 TO C03.16 FOR TESC PLAN DETAILS
4. SEE SECTION 8-01 TURBIDITY AND DEBRIS CONTROL, WATER QUALITY MONITORING, AND OFF-SHORE TESC PLANS.
5. INSTALL IMPERMEABLE LINER BELOW PERVIOUS PAVEMENT LIMITS. SEE SHEET C07.48 AND C07.49.
6. CONNECT DRAIN FROM TRESSEL TRENCH DRAIN TO PROPOSED GRIT CHAMBER. SEE SHEET C07.46 FOR GRIT CHAMBER DETAIL.

LEGEND:

- UD — UNDERDRAIN LINE
- ST — STORM SEWER
- DP - DRAIN LINE
- [---] BIORETENTION FACILITY (BRF-X)
- [MWS] MODULAR WETLANDS SYSTEM (MWS-X)
- CATCH BASIN
- MANHOLE
- CLEANOUT
- [---] TRENCH DRAIN



KEY PLAN

0 20 40
SCALE 1" = 40'

FILE NAME: WSW\Mukilteo\CADD\WORKING\CM-DESIGN\14w121_c07_14.dwg

PRINTED: 4:11:37 PM 9/21/2018
SUBMITTAL DATE: 8/23/2018
DESIGNED BY: R. NAIDU
ENTERED BY: C. BENNETT
CHECKED BY: C. MIRKIN
MAR PROJ ENGR: C. TORRES
DIR TERM ENGR: N. MCINTOSH
ASST SECRETARY: A. SCARTON

LAST PRINTED BY: chester
12/22/2017
12/22/2017
12/22/2017

REVISION DATE BY

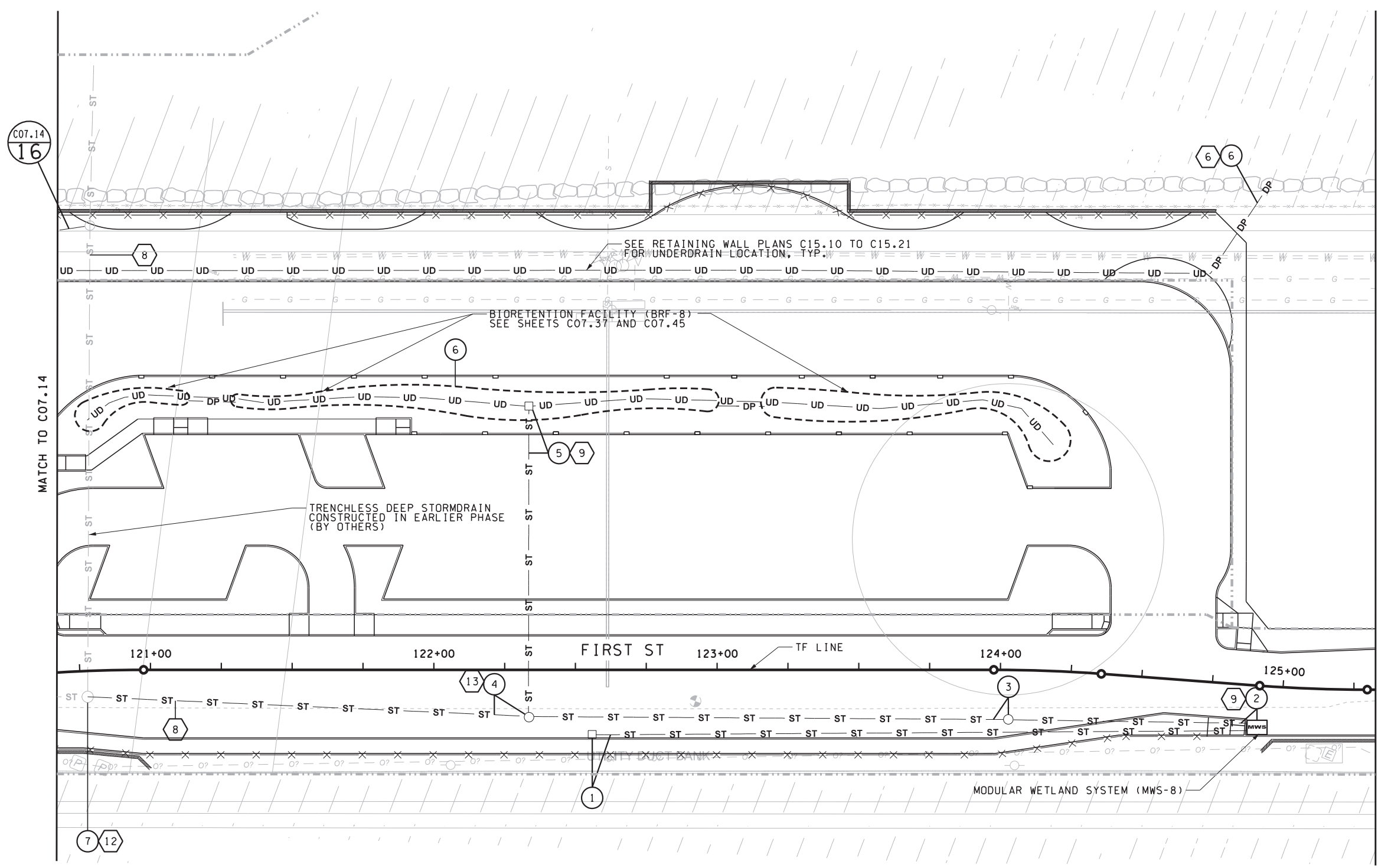
FED.AID PROJ.NO.
*- WA - **
REGION NO. STATE
10 WASH
JOB NUMBER
18W121
CONTRACT NO.
00*****



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

DRAINAGE PLAN

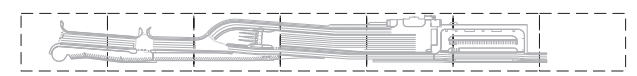
C07.14
SHEET
154
OF
1521
SHEETS





- CONSTRUCTION NOTES:**
- 8 APPROXIMATE LOCATION OF DIRECTIONAL DRILLING PIT (BY OTHERS)
 - 6 DAYLIGHT DRAIN PIPE
 - 12 CONNECT PROPOSED PIPE TO EXISTING STRUCTURE
 - 13 PIPE TO BE HDPE MATERIAL

- GENERAL NOTES:**
- SEE SHEETS C06.10 TO C06.16 FOR ALIGNMENT INFORMATION
 - SEE SECTION 1-07.6 PROTECTED SPECIES MONITORING
 - SEE SHEET C03.01 TO C03.16 FOR TESC PLAN DETAILS
 - SEE SECTION 8-01 TURBIDITY AND DEBRIS CONTROL, WATER QUALITY MONITORING, AND OFF-SHORE TESC PLANS.
 - INSTALL IMPERMEABLE LINER BELOW PERVIOUS PAVEMENT LIMITS. SEE SHEET C07.48 AND C07.49.
 - CONNECT DRAIN FROM TRESSEL TRENCH DRAIN TO PROPOSED GRIT CHAMBER. SEE SHEET C07.46 FOR GRIT CHAMBER DETAIL.

- LEGEND:**
- UD UNDERDRAIN LINE
 - ST STORM SEWER
 - DP DRAIN LINE
 - BRF-X BIORETENTION FACILITY (BRF-X)
 - MWS MODULAR WETLANDS SYSTEM (MWS-X)
 - CATCH BASIN
 - MANHOLE
 - CLEANOUT
 - TRENCH DRAIN



FILE NAME: WSW\Mukilteo\CADD\WORKING\CM-DESIGN\14w121.c07.15.dwg					<div></div> <div> Washington State Department of Transportation WASHINGTON STATE FERRIES</div>					SR 525					C07.15			
PRINTED: 4:12:04 PM 9/21/2018		LAST PRINTED BY:								FED.AID PROJ.NO.		MUKILTEO FERRY TERMINAL (PHASE 2)						
SUBMITTAL DATE: 8/23/2018		chester										*- WA - ***		FERRY TERMINAL CONSTRUCTION				
DESIGNED BY: R. NAIDU		12/22/2017										REGION NO. STATE		<div>SHEET 155 OF 1521 SHEETS</div>				
ENTERED BY: C. BENNETT		12/22/2017										10 WASH						
CHECKED BY: C. MIRKIN		12/22/2017										JOB NUMBER 18W121						
MAR PROJ ENGR: C. TORRES												REGISTERED						
DIR TERM ENGR: N. MCINTOSH												CONTRACT NO. 00****		DRAINAGE PLAN				
ASST SECRETARY: A. SCARTON					REVISION		DATE		BY									

CONSTRUCTION NOTES:

1. NO DRAINAGE WORK ON THIS SHEET

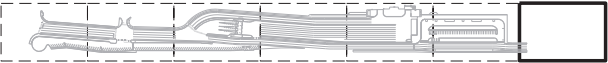
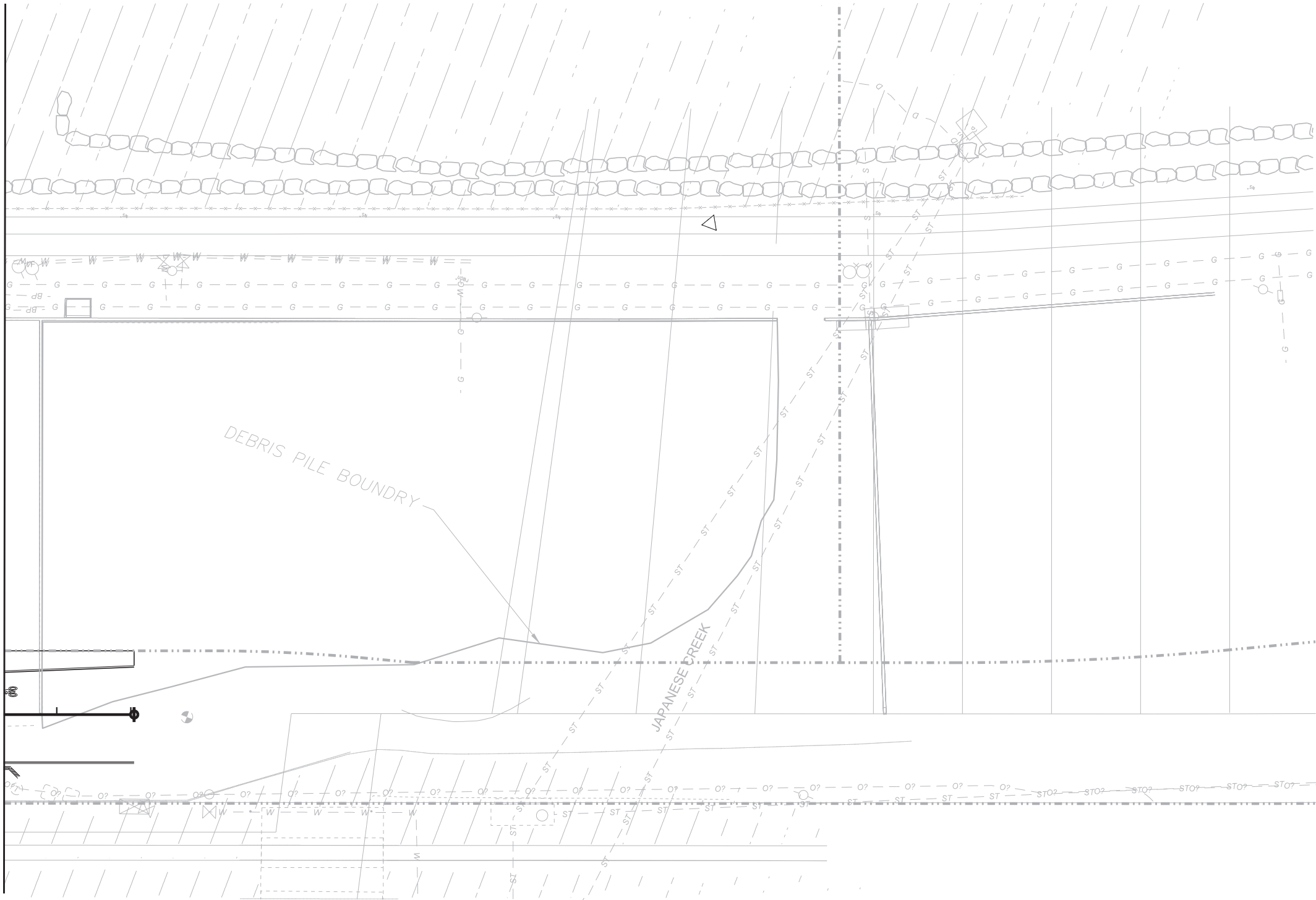
GENERAL NOTES:

1. SEE SHEETS C06.10 TO C06.16 FOR ALIGNMENT INFORMATION
2. SEE SECTION 1-07.6 PROTECTED SPECIES MONITORING
3. SEE SHEET C03.01 TO C03.16 FOR TESC PLAN DETAILS
4. SEE SECTION 8-01 TURBIDITY AND DEBRIS CONTROL, WATER QUALITY MONITORING, AND OFF-SHORE TESC PLANS.
5. INSTALL IMPERMEABLE LINER BELOW PERVIOUS PAVEMENT LIMITS. SEE SHEET C07.48 AND C07.49.
6. CONNECT DRAIN FROM TRESSEL TRENCH DRAIN TO PROPOSED GRIT CHAMBER. SEE SHEET C07.46 FOR GRIT CHAMBER DETAIL.

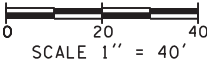
LEGEND:

- UD UNDERDRAIN LINE
- ST STORM SEWER
- DP DP DRAIN LINE
- BRF-BIORETENTION FACILITY (BRF-X)
- MWS MODULAR WETLANDS SYSTEM (MWS-X)
- CATCH BASIN
- MANHOLE
- CLEANOUT
- D TRENCH DRAIN

MATCH TO C07.15

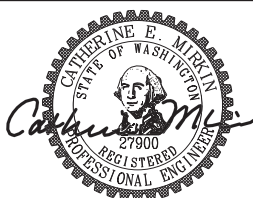


KEY PLAN



SCALE 1" = 40'

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SUBMITTAL DATE: 8/23/2018				*-WA-***
DESIGNED BY: R. NAIDU	12/22/2017			REGION NO. STATE
ENTERED BY: C. BENNETT	12/22/2017			10 WASH
CHECKED BY: C. MIRKIN	12/22/2017			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00*****
	REVISION	DATE	BY	

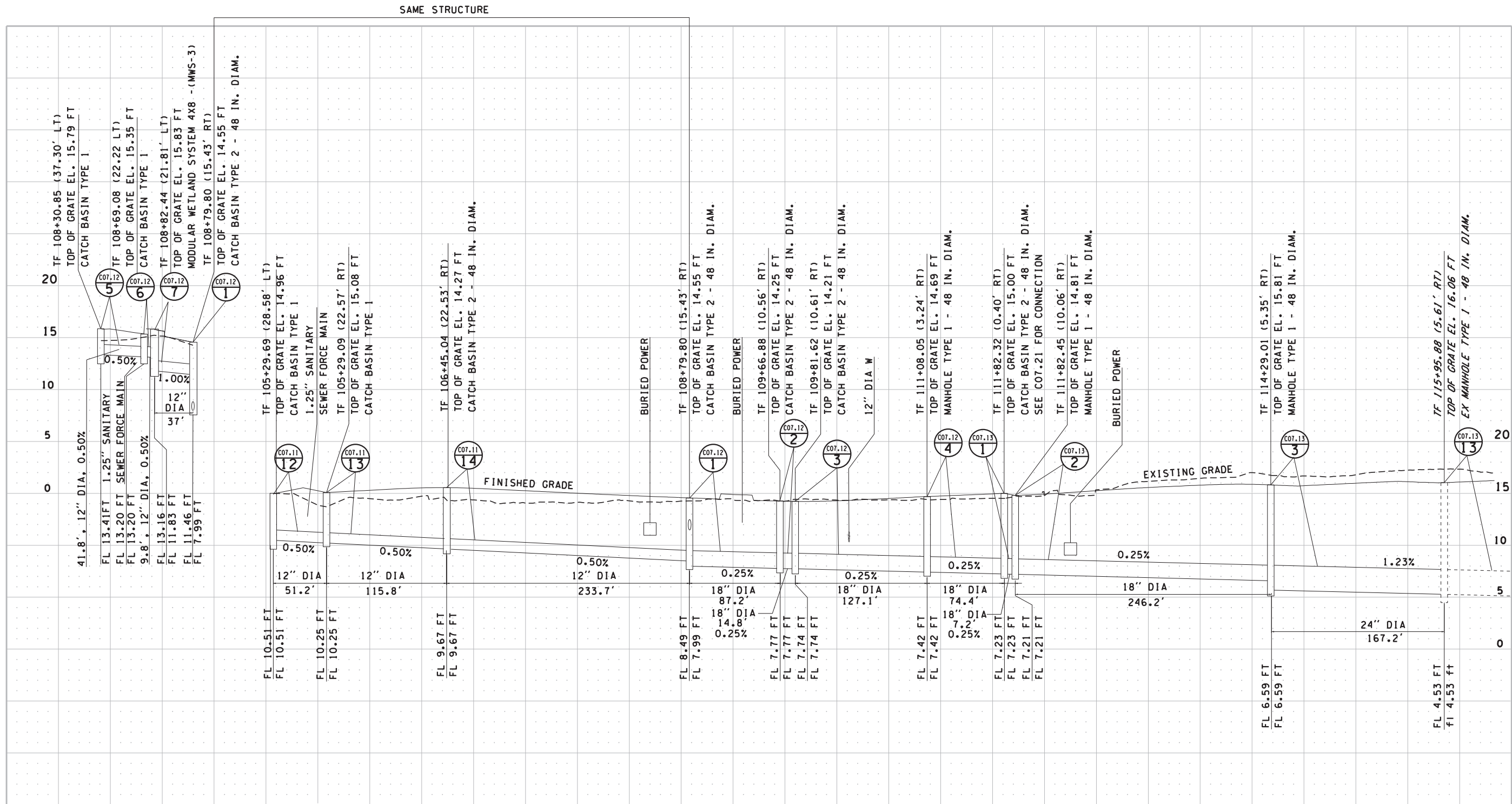


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

DRAINAGE PLAN

C07.16

SHEET
156
OF
1521
SHEETS



HORIZONTAL 1" = 100'

VERTICAL 1" = 10'



FILE NAME: WSF\Mukilteo\CADD\WORKING\CM-DESIGN\14w121.c07.21.dwg

PRINTED: 4:13:25 PM 9/21/2018

LAST PRINTED BY: chester

SUBMITTAL DATE: 8/23/2018

DESIGNED BY: R. NAIDU

12/22/2017

ENTERED BY: R. NAIDU

12/22/2017

CHECKED BY: C. MIRKIN

12/22/2017

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

REVISION

DATE

BY

FED.AID
PROJ.NO.

*- WA - **

REGION NO. STATE

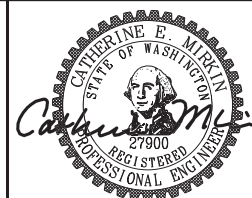
10 WASH

JOB NUMBER

18W121

CONTRACT NO.

00****



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

DRAINAGE PROFILE

C07.21

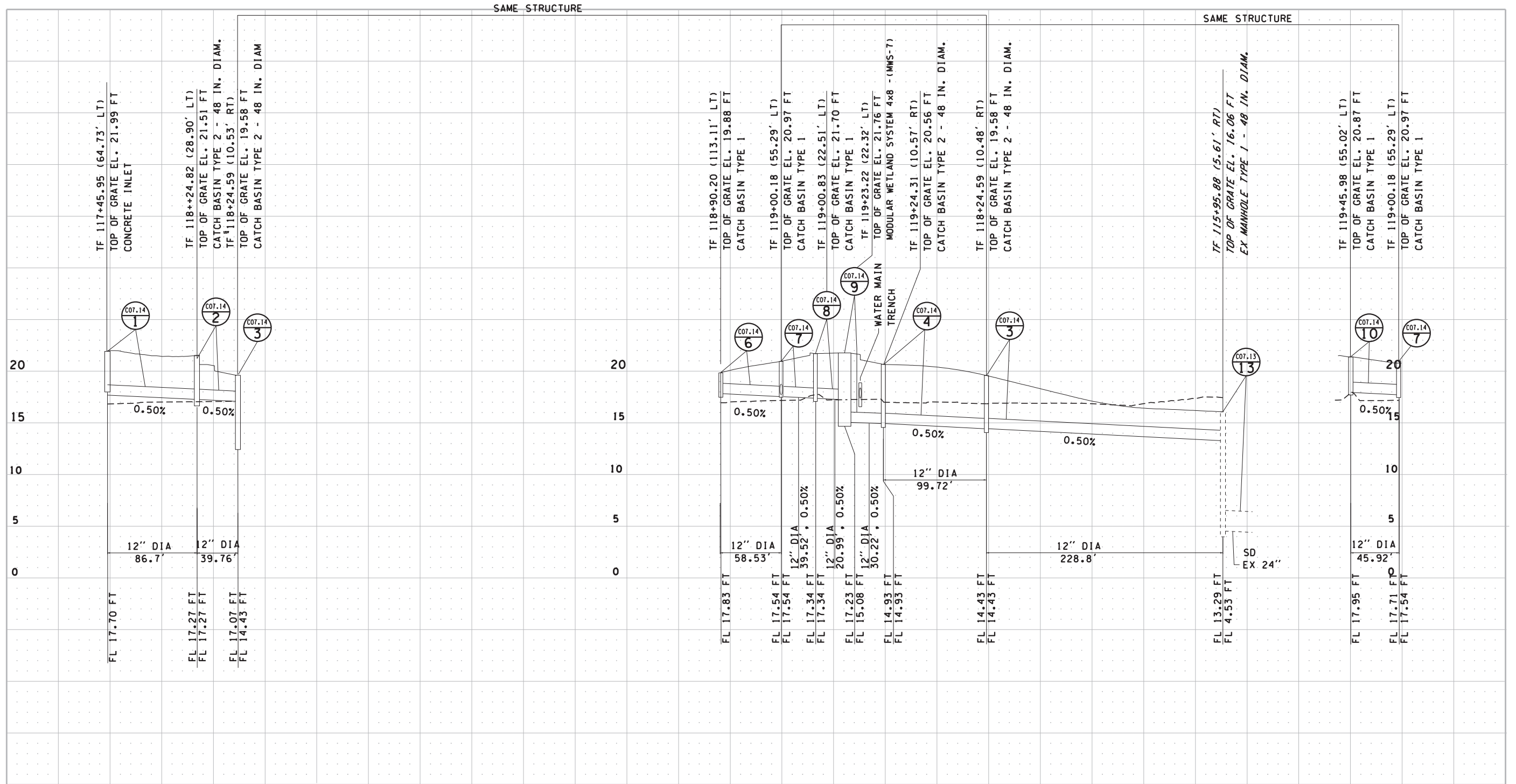
SHEET

158

OF

1521

SHEETS



HORIZONTAL 1" = 100'

VERTICAL 1" = 10'



FILE NAME: WSF\Mukilteo\CADD\WORKING\CM-DESIGN\14w121_c07.22.dwg

PRINTED: 4:13:55 PM 9/21/2018

LAST PRINTED BY: chester

SUBMITTAL DATE: 8/23/2018

DESIGNED BY: R. NAIDU

12/22/2017

ENTERED BY: C. BENNETT

12/22/2017

CHECKED BY: C. MIRKIN

12/22/2017

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

REVISION

DATE

BY

FED.AID
PROJ.NO.

* - WA - **

REGION NO. STATE

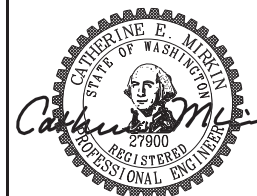
10 WASH

JOB NUMBER

18W121

CONTRACT NO.

00****



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

DRAINAGE PROFILE

C07.22

SHEET

159

OF

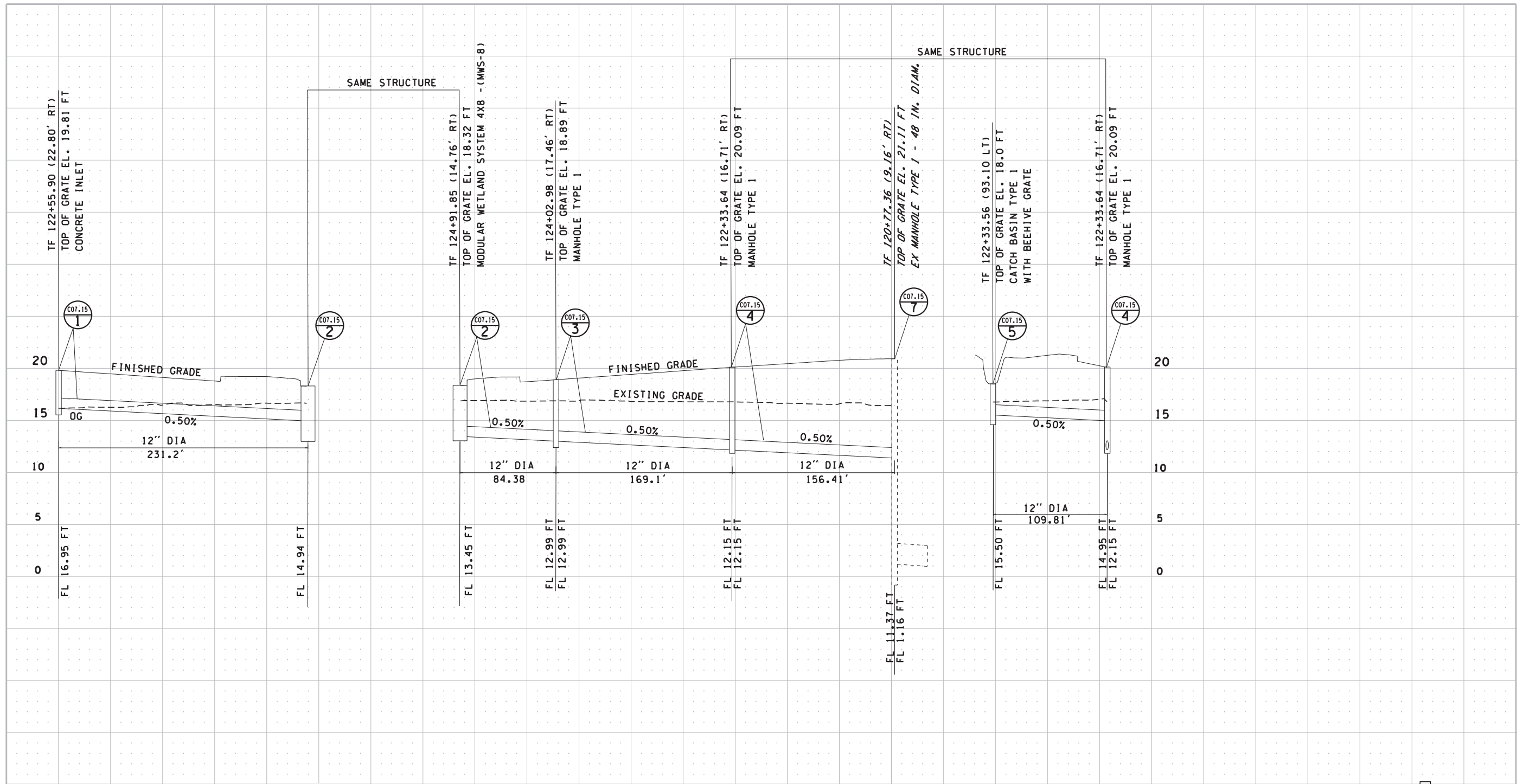
1521

SHEETS



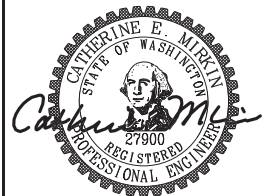
C07.23
SHEET
160
OF
1521
SHEETS

FILE NAME: WSF\Mukilteo\CADD\WORKING\CM-DESIGN\14w121_c07_23.dlv					
PRINTED: 4:16:07 PM 9/21/2018		LAST PRINTED BY:			
SUBMITTAL DATE: 8/23/2018		chester		FED.AID PROJ.NO.	
DESIGNED BY: R. NAIDU		12/22/2017		*- WA-***	
ENTERED BY: C. BENNETT		12/22/2017		REGION NO. STATE	
CHECKED BY: C. MIRKIN		12/22/2017		10 WASH	
MAR PROJ ENGR: C. TORRES				JOB NUMBER	
DIR TERM ENGR: N. MCINTOSH				18W121	
ASST SECRETARY: A. SCARTON				CONTRACT NO.	
		REVISION		DATE BY	
				00****	



FILE NAME: WSF\Mukilteo\CADD\WORKING\CM-DESIGN\14w121_c07.24.dwg				
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SUBMITTAL DATE: 8/23/2018				
DESIGNED BY: R. NAIDU	12/22/2017			
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CHECKED BY: C. MIRKIN	12/22/2017			
MAR PROJ ENGR: C. TORRES				
DIR TERM ENGR: N. MCINTOSH				
ASST SECRETARY: A. SCARTON				
	REVISION	DATE	BY	

FED.AID PROJ.NO.
*- WA - **
REGION NO. STATE
10 WASH
JOB NUMBER
18W121
CONTRACT NO.
00*****



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
DRAINAGE PROFILE

C07.24
SHEET
161
OF
1521
SHEETS

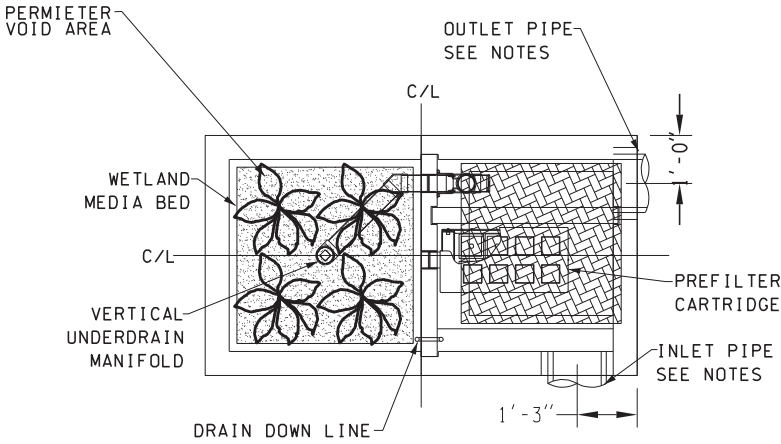
SITE SPECIFIC DATA			
PROJECT NUMBER		2804	
PROJECT NAME		WSF MUKITEO FERRY TERMINAL	
PROJECT LOCATION		MUKILTEO, WA	
STRUCTURE ID		C07.12-9 (MWS-4)	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
		0.08	
TREATMENT HGL AVAILABLE (FT)			
PEAK BYPASS REQUIRED (CFS)			0.051
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	11.16	N/K	8"
INLET PIPE 2			
OUTLET PIPE	9.66	N/K	12"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	14.43	14.43	14.43
SURFACE LOAD	PARKWAY	OPEN PLANTER	PARKWAY
FRAME & COVER	36" x 36"	N/A	N/A
WETLANDMEDIA VOLUME (CY)			2.78
WETLANDMEDIA DELIVERY METHOD			TBD
ORIFICE SIZE (DIA. INCHES)			*1.39"
MAXIMUM PICK WEIGHT (LBS)			TBD
NOTES: PRELIMINARY, NOT FOR CONSTRUCTION.			

INSTALLATION NOTES:

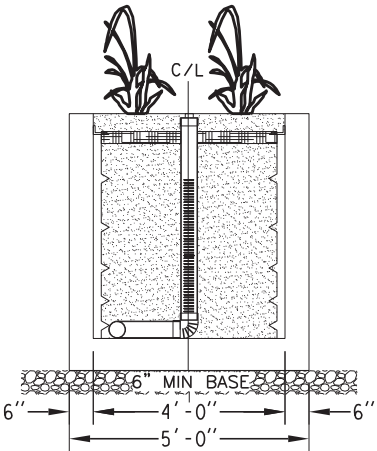
1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTAL REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN THE MANUFACTURERS CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION

GENERAL NOTES:

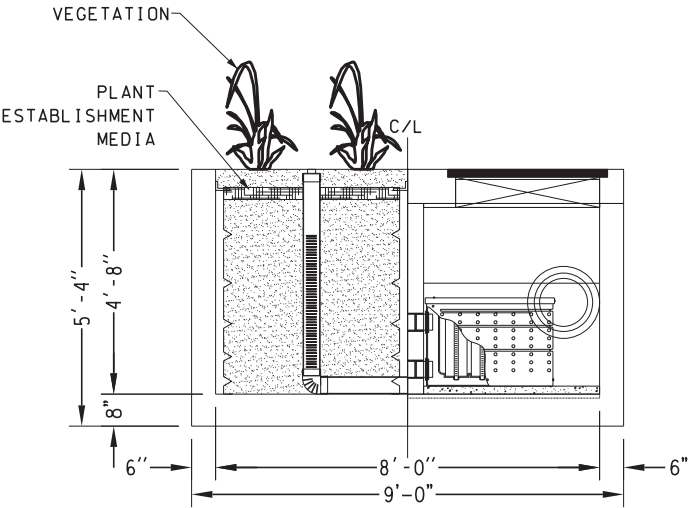
1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.



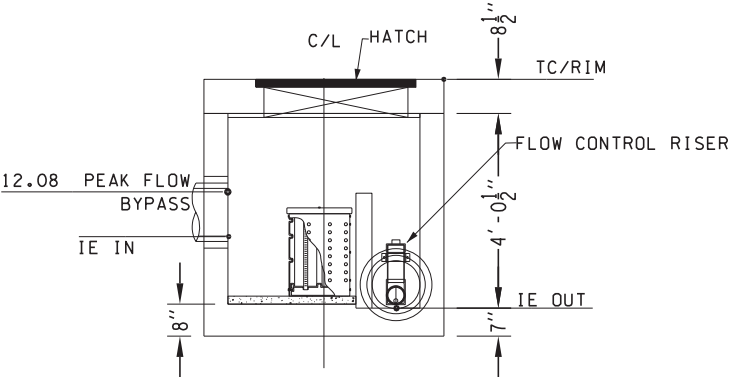
PLAN VIEW



LEFT END VIEW



ELEVATION VIEW



RIGHT END VIEW
PRETREATMENT/DISCHARGE

1 MODULAR WETLAND SYSTEM 4' X 8' - (MWS-4)
C07.32



FILE NAME: WSF\Mukiteo\CADD\WORKING\CM-DESIGN\14w121_c07.32.dwg					
PRINTED: 4:19:20 PM 9/21/2018	LAST PRINTED BY: chester				FED.AID PROJ.NO.
SUBMITTAL DATE: 8/23/2018					* - WA - **
DESIGNED BY: R. NAIDU	12/22/2017				REGION NO. STATE
ENTERED BY: R. NAIDU	12/22/2017				10 WASH
CHECKED BY: C. MIRKIN	12/22/2017				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00*****
	REVISION	DATE	BY		



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

DRAINAGE DETAILS

C07.32
SHEET
164
OF
1521
SHEETS

SITE SPECIFIC DATA			
PROJECT NUMBER		2804	
PROJECT NAME		WSF MUKITEO FERRY TERMINAL	
PROJECT LOCATION		MUKILTEO, WA	
STRUCTURE ID		C07.12-10 (MWS-5)	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
		0.02	
TREATMENT HGL AVAILABLE (FT)			
PEAK BYPASS REQUIRED (CFS)			0.0123
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	11.16	N/K	8"
INLET PIPE 2			
OUTLET PIPE	9.66	N/K	12"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	14.43	14.32	14.32
SURFACE LOAD	PARKWAY	OPEN PLANTER	PARKWAY
FRAME & COVER	24" x 42"	N/A	N/A
WETLANDMEDIA VOLUME (CY)			2.78
WETLANDMEDIA DELIVERY METHOD			TBD
ORIFICE SIZE (DIA. INCHES)			0.91"
MAXIMUM PICK WEIGHT (LBS)			TBD
NOTES: PRELIMINARY, NOT FOR CONSTRUCTION.			

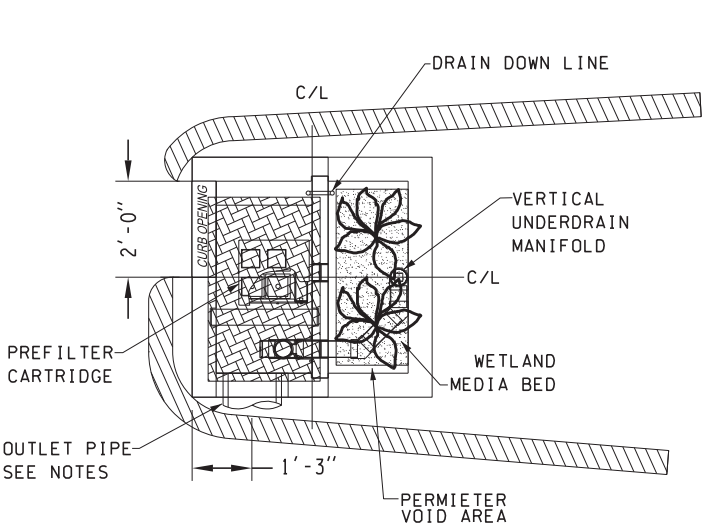
STRUCTURE ID		C07.11-15 (MWS-2)	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
		0.03	
TREATMENT HGL AVAILABLE (FT)			
PEAK BYPASS REQUIRED (CFS)			0.0123
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	11.60	N/K	
INLET PIPE 2			
OUTLET PIPE	10.30	N/K	12''
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	15.04	15.04	15.04
SURFACE LOAD	PARKWAY	OPEN PLANTER	PARKWAY
FRAME & COVER	24'' x 42''	N/A	N/A
WETLANDMEDIA VOLUME (CY)			2.78
WETLANDMEDIA DELIVERY METHOD			TBD
ORIFICE SIZE (DIA. INCHES)			0.91''
MAXIMUM PICK WEIGHT (LBS)			TBD
NOTES: PRELIMINARY, NOT FOR CONSTRUCTION.			

INSTALLATION NOTES:

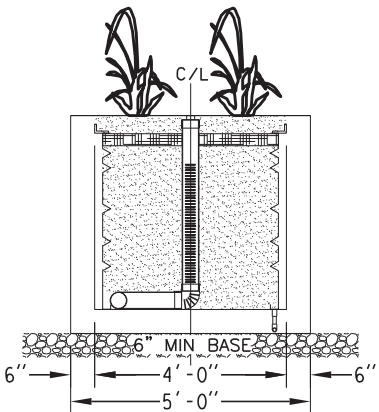
- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTAL REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWNIG AND THE MANUFACTURERS SPECIFICATIONS,UNLESS OTHERWISE STATED IN THE MANUFACTURERS CONTRACT.
- UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
- ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INSTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRING GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
- CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES
- CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
- DRIP OR SPRAY IRRIGATION REQURIED ON ALL UNITS WITH VEGETATION

GENERAL NOTES:

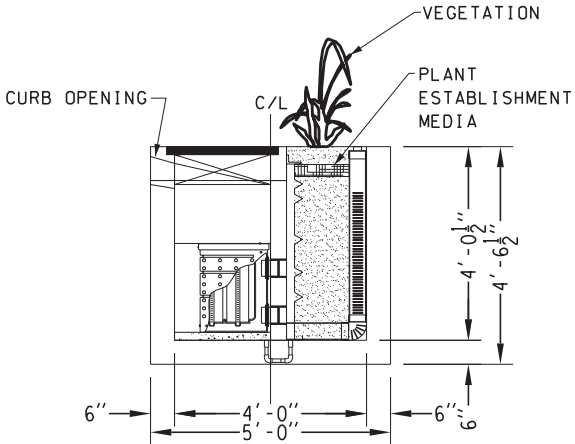
- MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
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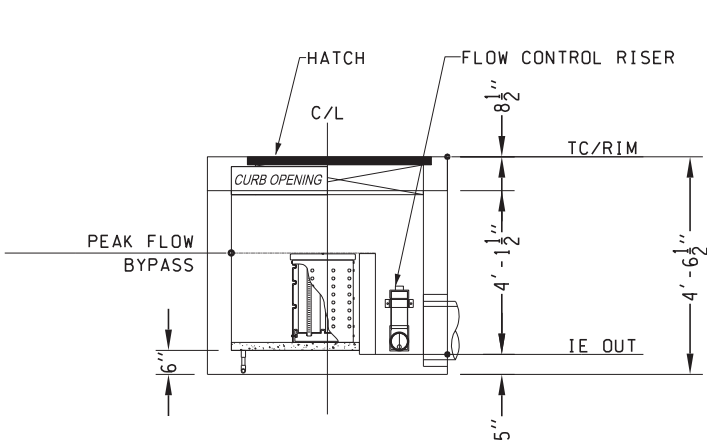
PLAN VIEW



LEFT END VIEW
BIOFILTRATION



ELEVATION VIEW

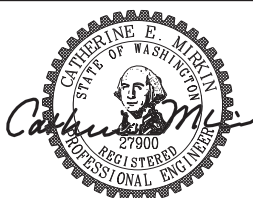


RIGHT END VIEW
PRETREATMENT/DISCHARGE

1 MODULAR WETLAND SYSTEM 4' X 4' - (MWS-2 & MWS-5)



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SUBMITTAL DATE: 8/23/2018		chester			* - WA - **
DESIGNED BY: R. NAIDU	12/22/2017				REGION NO. STATE
ENTERED BY: R. NAIDU	12/22/2017				10 WASH
CHECKED BY: C. MIRKIN	12/22/2017				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					REGISTERED
ASST SECRETARY: A. SCARTON					CONTRACT NO.
					00****
	REVISION	DATE	BY		



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

DRAINAGE DETAILS

C07.33
SHEET
165
OF
1521
SHEETS

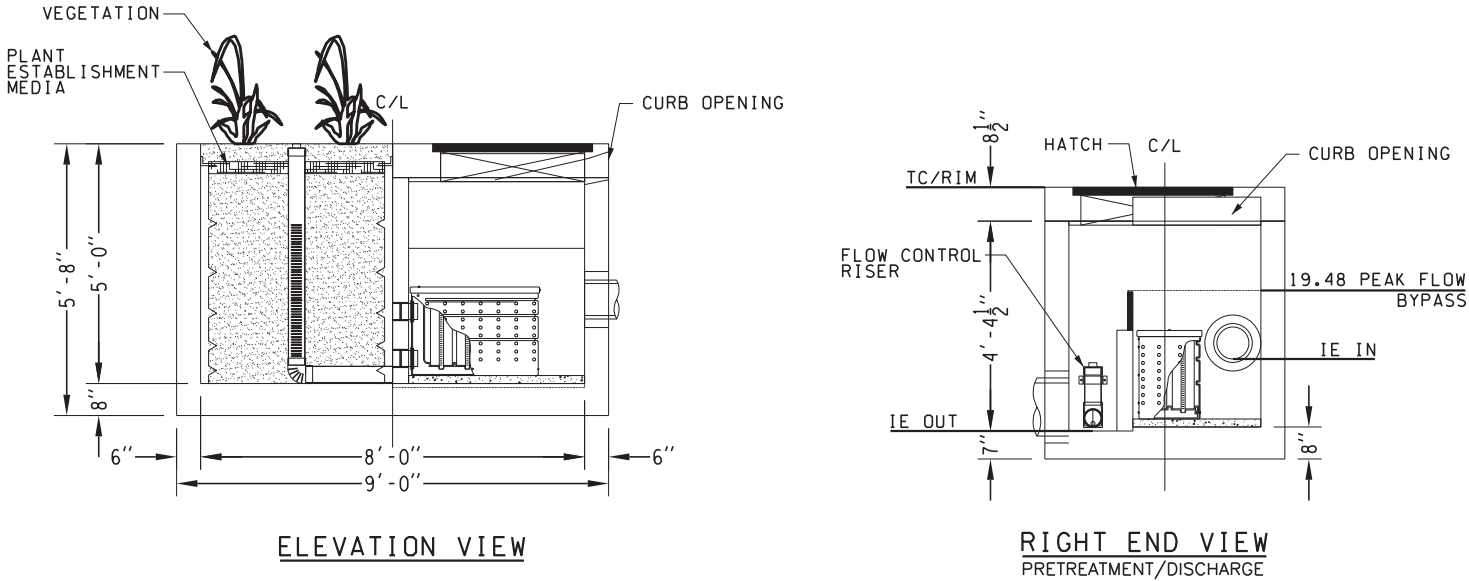
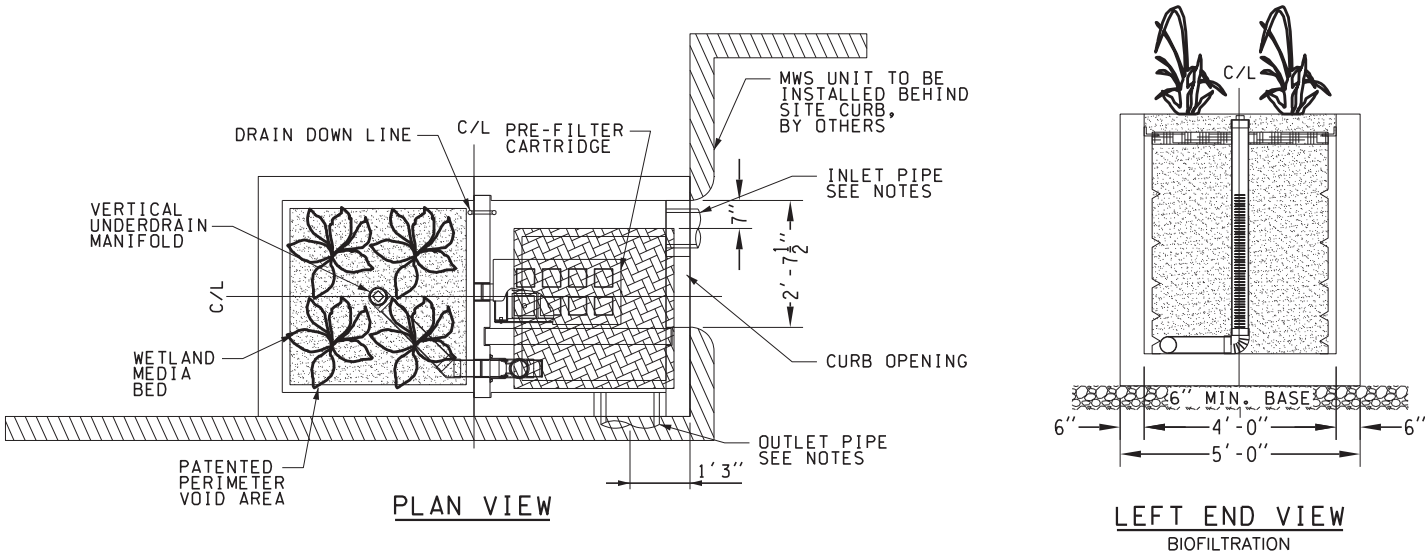
SITE SPECIFIC DATA			
PROJECT NUMBER		2804	
PROJECT NAME		WSF MUKITEO FERRY TERMINAL	
PROJECT LOCATION		MUKILTEO, WA	
STRUCTURE ID		C07-14-9 (MWS-7)	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
		0.08	
TREATMENT HGL AVAILABLE (FT)			
PEAK BYPASS REQUIRED (CFS)			0.0439
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	17.19	DI	8"
INLET PIPE 2			
OUTLET PIPE	15.08	N/K	12"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	21.63	21.63	21.63
SURFACE LOAD	PARKWAY	OPEN PLANTER	PARKWAY
FRAME & COVER	36" x 36"	N/A	N/A
WETLANDMEDIA VOLUME (CY)			3.70
WETLANDMEDIA DELIVERY METHOD			TBD
ORIFICE SIZE (DIA. INCHES)			*1.49"
MAXIMUM PICK WEIGHT (LBS)			TBD
NOTES: PRELIMINARY, NOT FOR CONSTRUCTION.			

INSTALLATION NOTES:

- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTAL REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN THE MANUFACTURERS CONTRACT.
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- ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINKING GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
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- DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION

GENERAL NOTES:

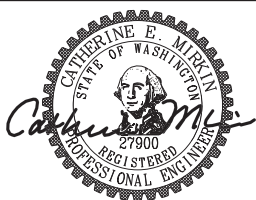
- MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
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1 MODULAR WETLAND SYSTEM 4' X 8' - (MWS-7)



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DESIGNED BY: R. NAIDU	12/22/2017			*- WA - **	
ENTERED BY: R. NAIDU	12/22/2017			REGION NO. STATE	
CHECKED BY: C. MIRKIN	12/22/2017			10 WASH	
MAR PROJ ENGR: C. TORRES				JOB NUMBER	
DIR TERM ENGR: N. MCINTOSH				18W121	
ASST SECRETARY: A. SCARTON				CONTRACT NO.	
				00****	
		REVISION	DATE	BY	



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
DRAINAGE DETAILS

C07.34
SHEET
166
OF
1521
SHEETS

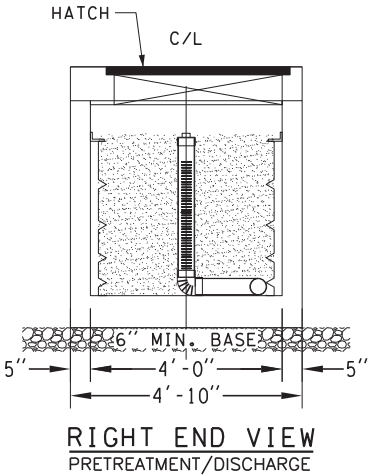
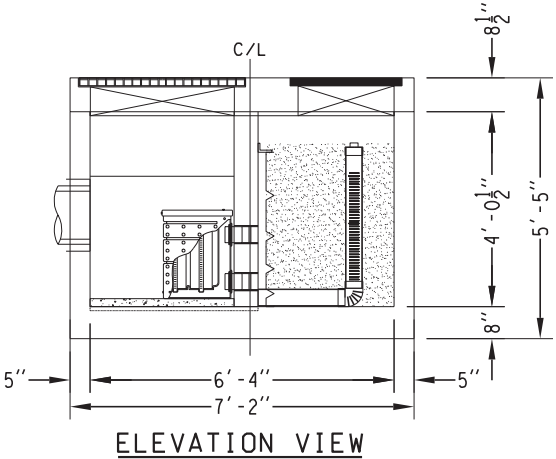
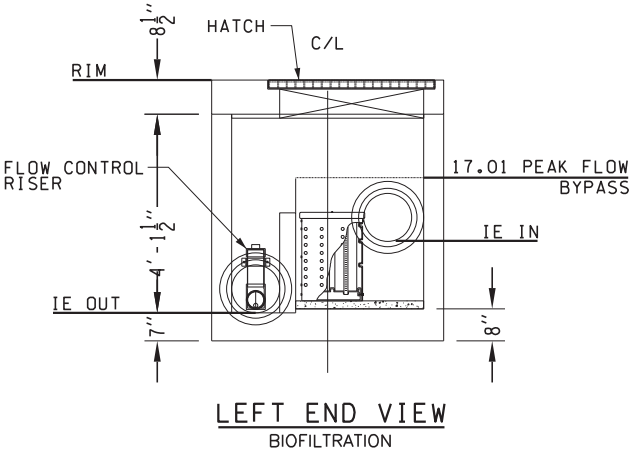
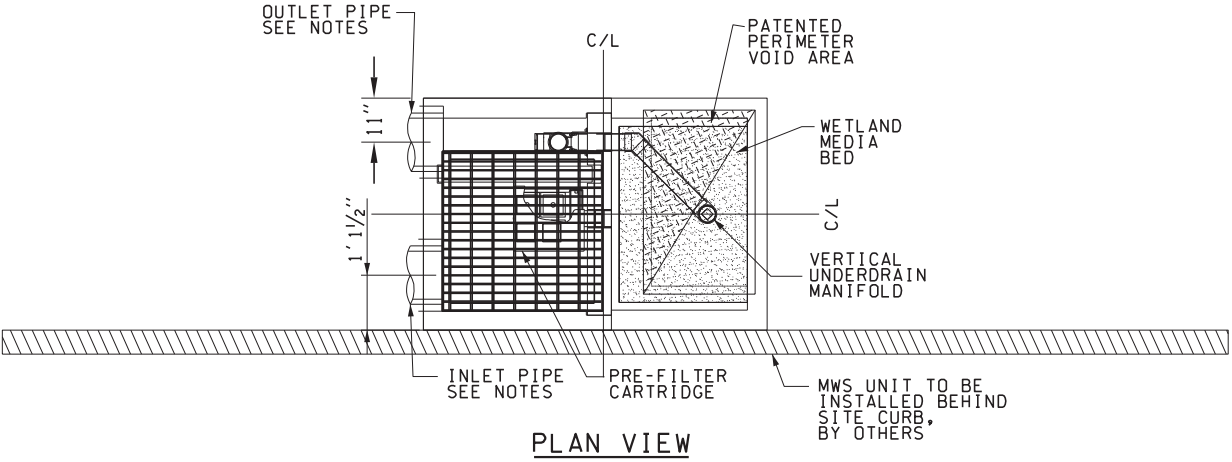
SITE SPECIFIC DATA			
PROJECT NUMBER		2804	
PROJECT NAME		WSF MUKITEO FERRY TERMINAL	
PROJECT LOCATION		MUKILTEO, WA	
STRUCTURE ID		C07.15-2 (MWS-8)	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
		0.05	
TREATMENT HGL AVAILABLE (FT)			
PEAK BYPASS REQUIRED (CFS)			0.035
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	14.94	DI	12"
INLET PIPE 2			
OUTLET PIPE	13.45	N/K	12"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	18.30	18.30	18.30
SURFACE LOAD	H2O DIRECT	H2O DIRECT	H2O DIRECT
FRAME & COVER	36"x36" GRATE	24"x42" HATCH	N/A
WETLANDMEDIA VOLUME (CY)			1.42
WETLANDMEDIA DELIVERY METHOD			TBD
ORIFICE SIZE (DIA. INCHES)			*1.16"
MAXIMUM PICK WEIGHT (LBS)			TBD
NOTES: PRELIMINARY, NOT FOR CONSTRUCTION.			

INSTALLATION NOTES:

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GENERAL NOTES:

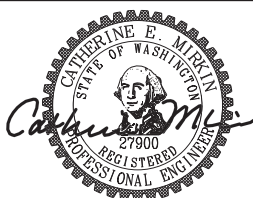
- MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
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1 MODULAR WETLAND SYSTEM 4' x 6' - (MWS-8)

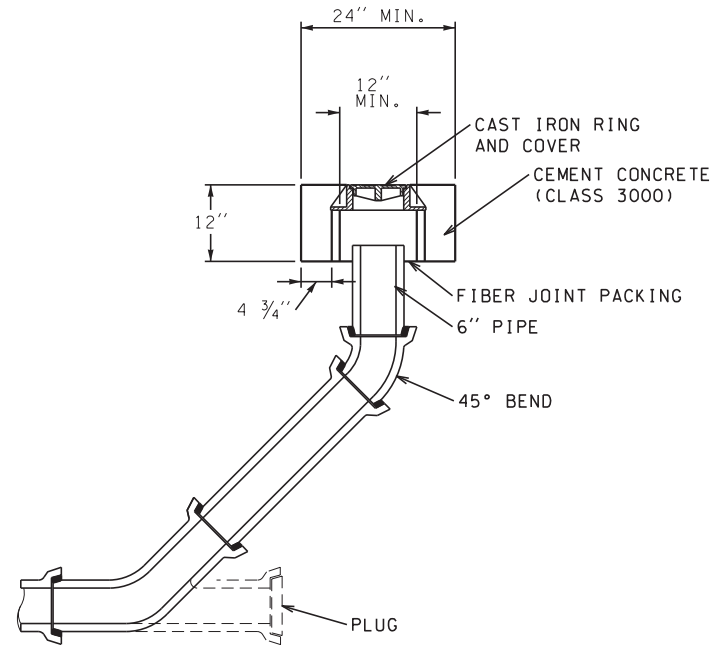


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SUBMITTAL DATE: 8/23/2018					* - WA - **
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ENTERED BY: R. NAIDU	12/22/2017				10 WASH
CHECKED BY: C. MIRKIN	12/22/2017				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00****
	REVISION	DATE	BY		

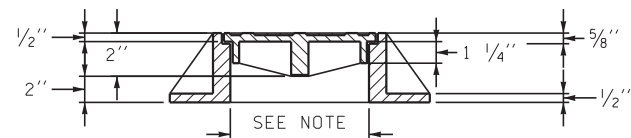


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
DRAINAGE DETAILS

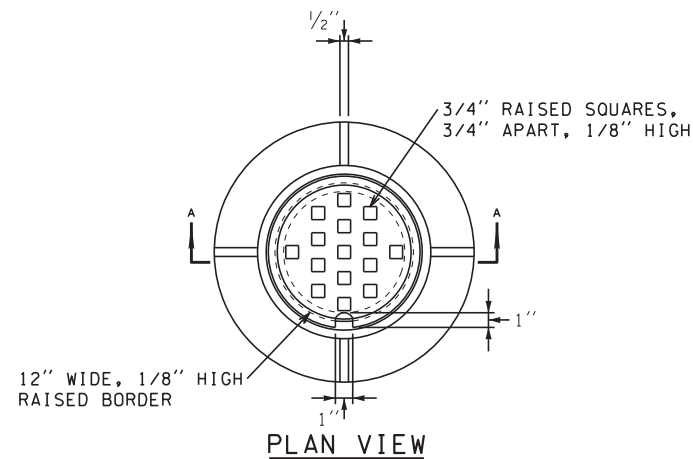
C07.35
SHEET
167
OF
1521
SHEETS



ELEVATION VIEW

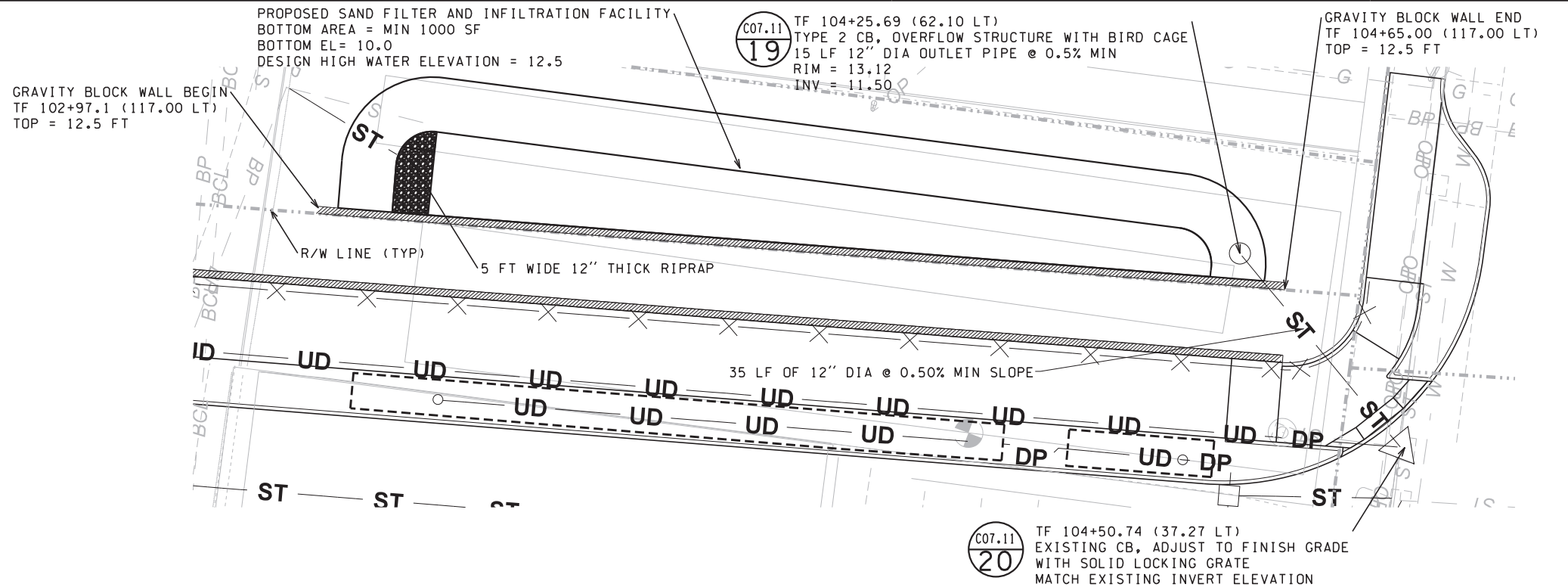


NOTE:
CAST IRON RING AND COVER
DIAMETER AS NEEDED TO ACCOMMODATE PIPE

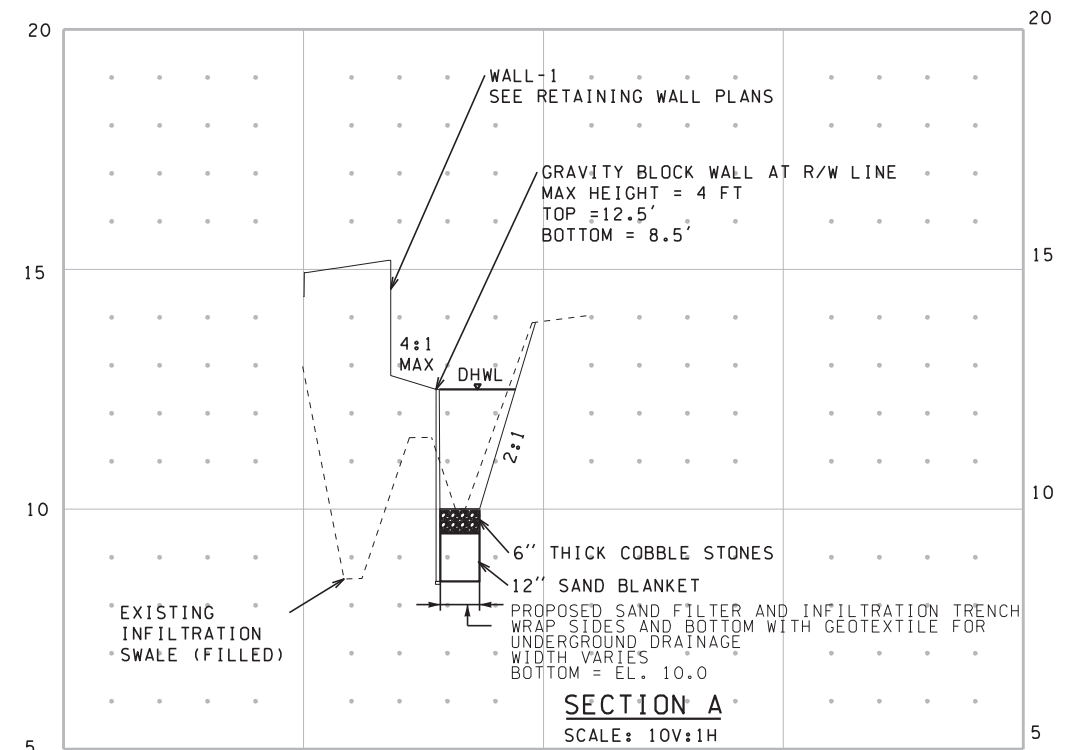


PLAN VIEW

1 STORM SEWER CLEANOUT
C07.22 NOT TO SCALE



PLAN VIEW
SCALE: 1\"/>



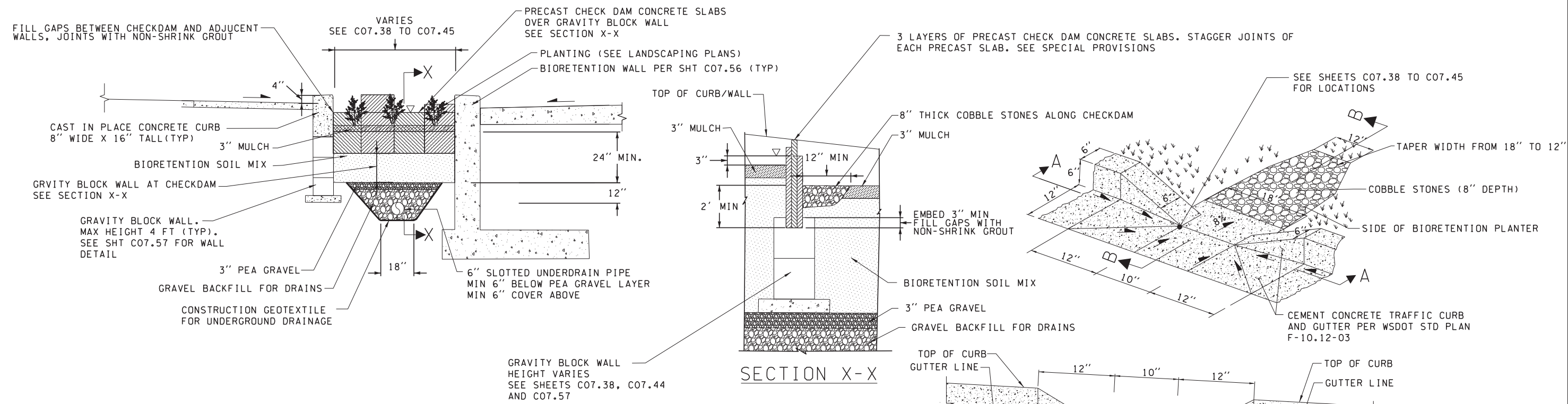
2 SAND FILTER / INFILTRATION FACILITY
C07.11

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ENTERED BY:	R. NAIDU	12/22/2017			*- WA - **
CHECKED BY:	C. MIRKIN	12/22/2017			REGION NO. STATE
MAR PROJ ENGR:	C. TORRES				10 WASH
DIR TERM ENGR:	N. MCINTOSH				JOB NUMBER
ASST SECRETARY:	A. SCARTON				18W121
		REVISION	DATE	BY	CONTRACT NO.
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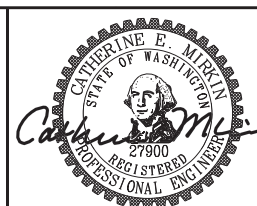


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
DRAINAGE DETAILS

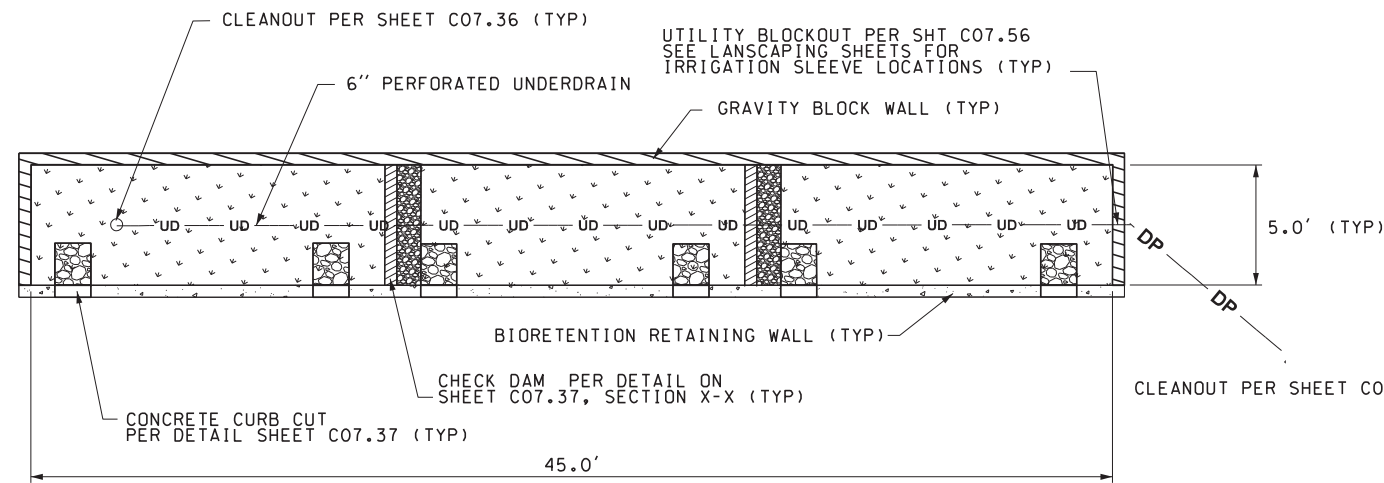
C07.36
SHEET
168
OF
1521
SHEETS



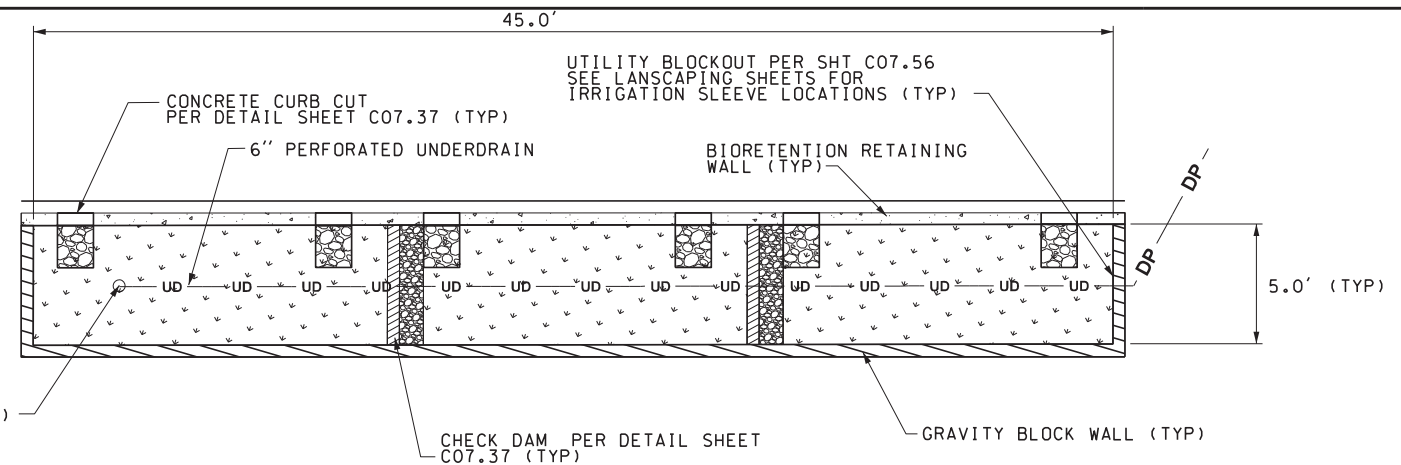
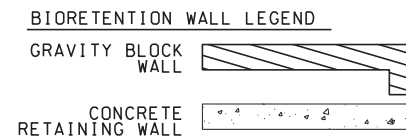
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ENTERED BY:	C. BENNETT	CHECKED BY:	C. MIRKIN	12/22/2017
MAR PROJ ENGR:	C. TORRES	DIR TERM ENGR:	N. MCINTOSH	
ASST SECRETARY:	A. SCARTON	REVISION	DATE	BY
FED.AID PROJ.NO. *-WA-***				
REGION NO. STATE 10 WASH				
JOB NUMBER 18W121				
CONTRACT NO. 00****				



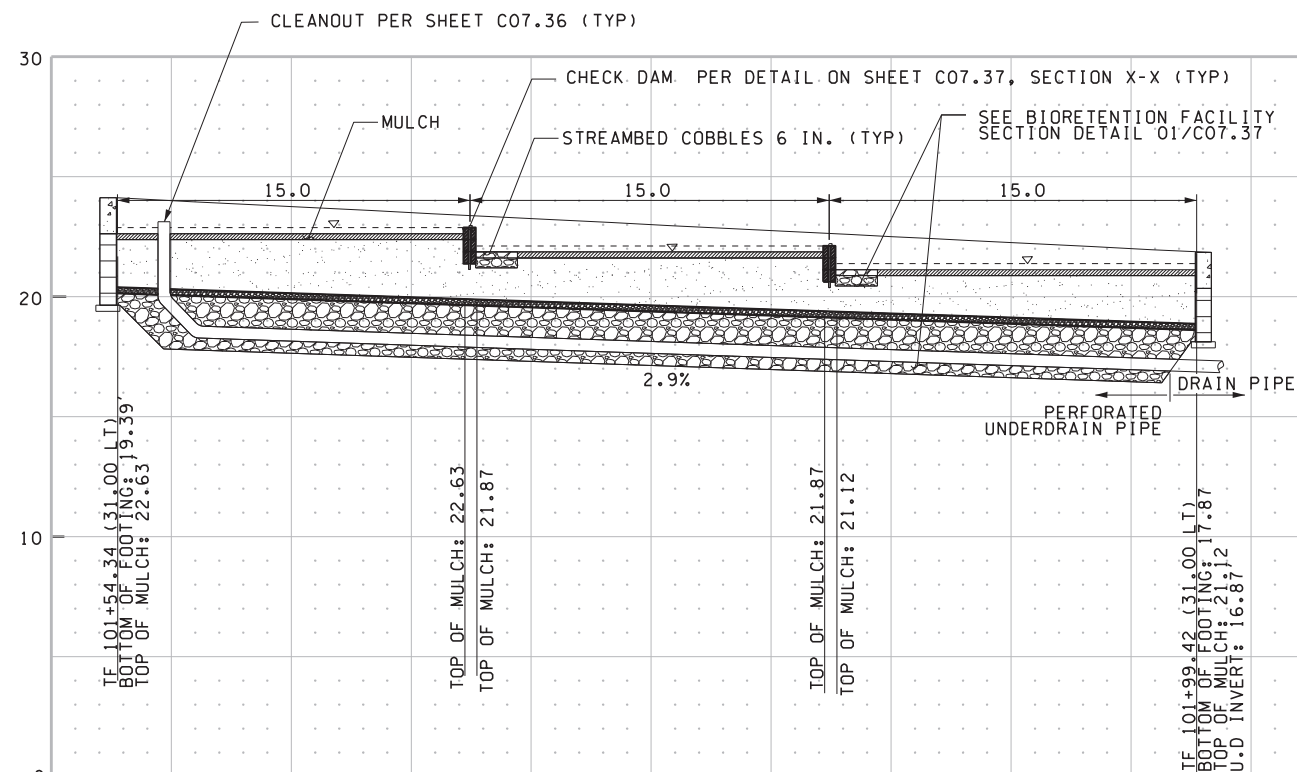
SR 525		C07.37
MUKILTEO FERRY TERMINAL (PHASE 2)		
FERRY TERMINAL CONSTRUCTION		SHEET
		169
		OF
		1521
DRAINAGE DETAILS		SHEETS



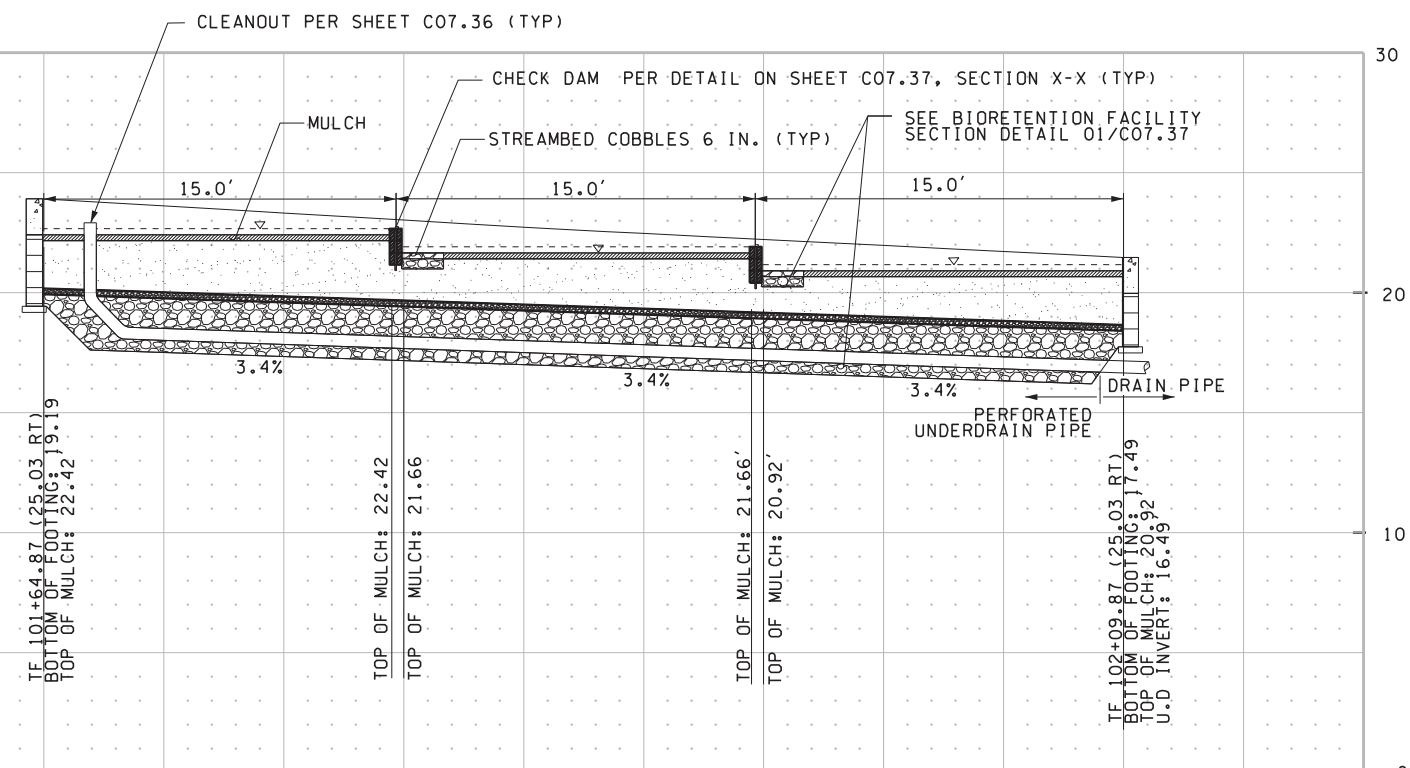
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C07.10-7 NOT TO SCALE



BIORETENTION FACILITY (BRF-2) - PLAN
C07.10-8 NOT TO SCALE



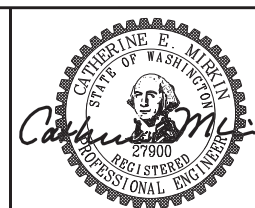
BIORETENTION FACILITY (BRF-1) - ELEVATION
C07.10-7 NOT TO SCALE



BIORETENTION FACILITY (BRF-2) - ELEVATION
C07.10-8 NOT TO SCALE

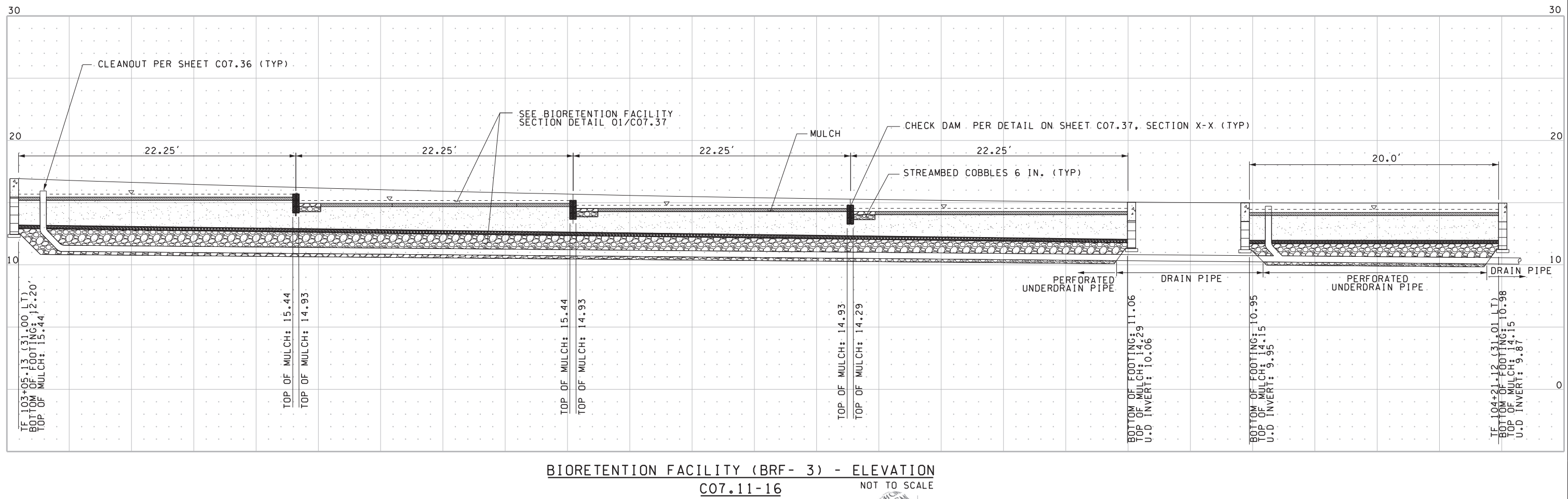
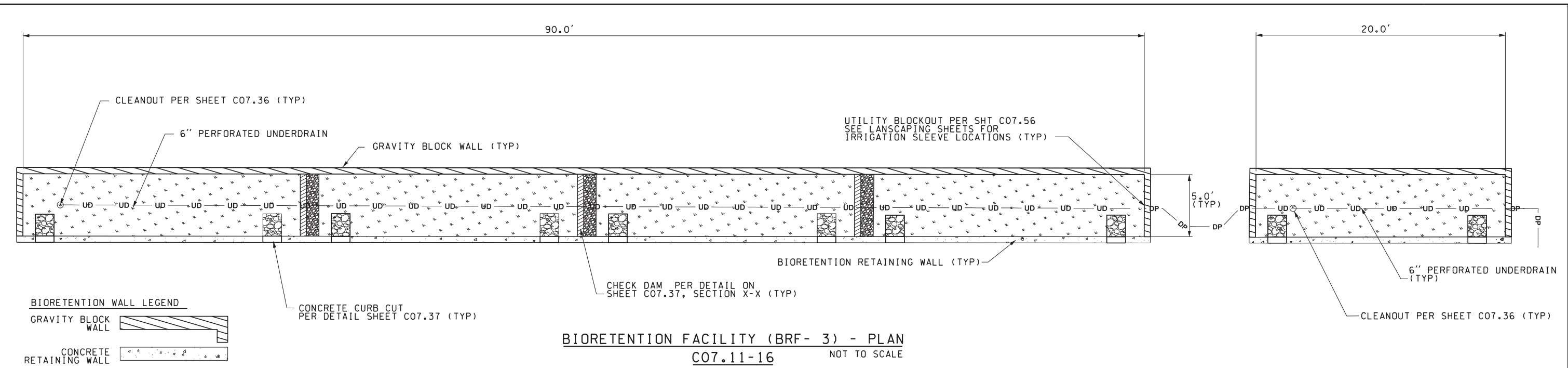


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ENTERED BY:	R. NAIDU	CHECKED BY:	C. MIRKIN	12/22/2017
MAR PROJ ENGR:	C. TORRES	DIR TERM ENGR:	N. MCINTOSH	
ASST SECRETARY:	A. SCARTON	REVISION	DATE	BY
		FED.AID PROJ.NO.	** WA - **	
		REGION NO. STATE	10 WASH	
		JOB NUMBER	18W121	
		CONTRACT NO.	00****	

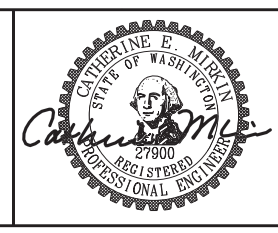


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
DRAINAGE DETAILS

C07.38
SHEET
170
OF
1521
SHEETS

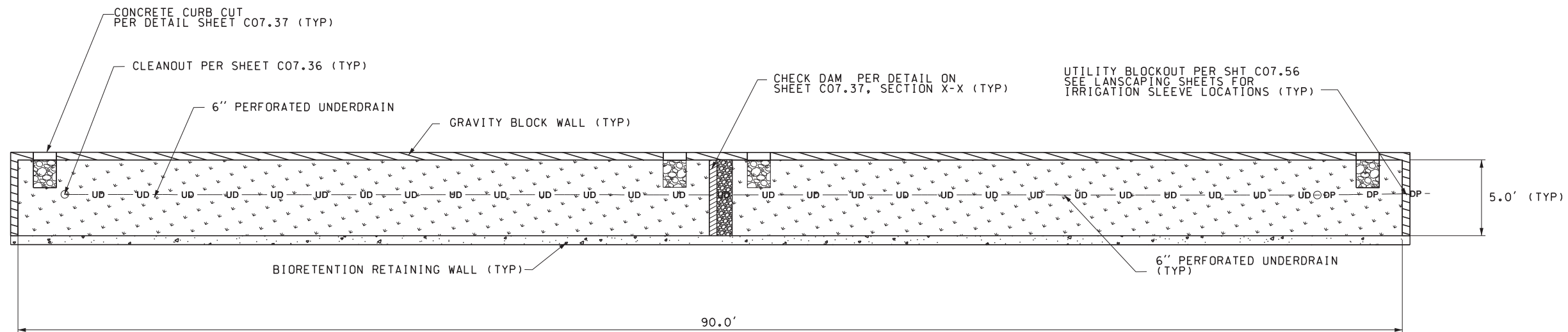


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ENTERED BY:	R. NAIDU	CHECKED BY:	C. MIRKIN	12/22/2017
MAR PROJ ENGR:	C. TORRES	DIR TERM ENGR:	N. MCINTOSH	
ASST SECRETARY:	A. SCARTON	REVISION	DATE	BY
		FED.AID PROJ.NO.	*- WA - **	
		REGION NO. STATE	10 WASH	
		JOB NUMBER	18W121	
		CONTRACT NO.	00****	

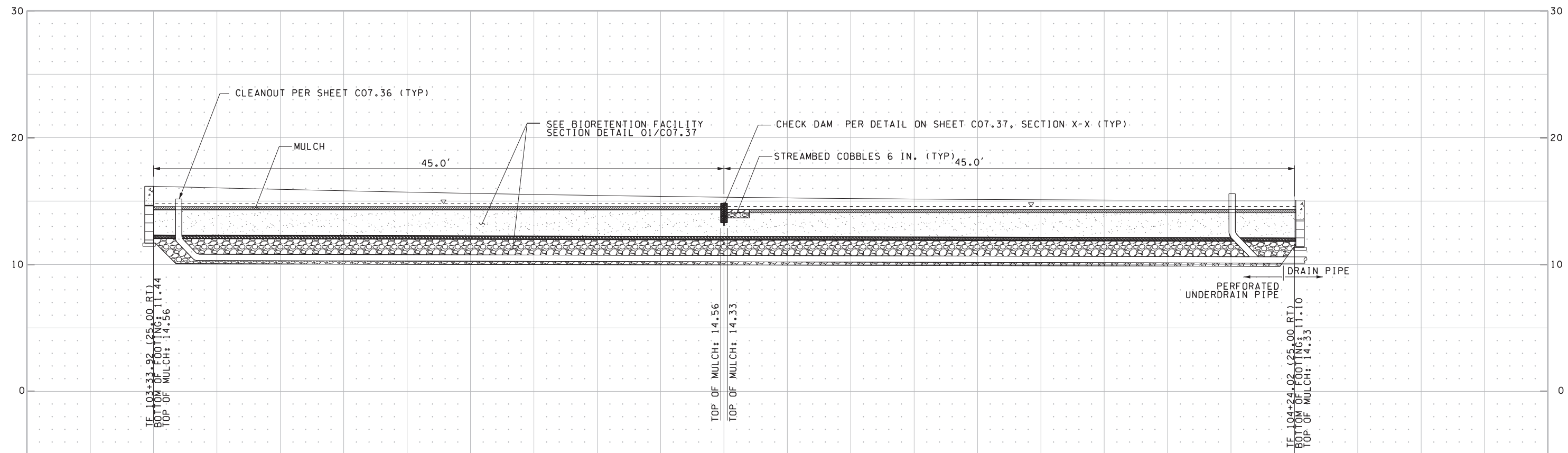
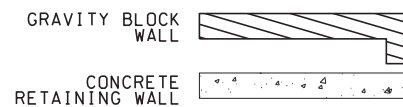


SR 525	
MUKILTEO FERRY TERMINAL (PHASE 2)	
FERRY TERMINAL CONSTRUCTION	
DRAINAGE DETAILS	

C07.39
SHEET
171
OF
1521
SHEETS



BIORETENTION WALL LEGEND



BIORETENTION FACILITY (BRF-4) - ELEVATION
C07.11-17 NOT TO SCALE



FILE NAME: WSF\Mukilteo\CADD\WORKING\CM-DESIGN\14w121_c07_40.dwg

PRINTED: 4:36:33 PM 9/21/2018

LAST PRINTED BY: chester

SUBMITTAL DATE: 8/23/2018

DESIGNED BY: R. NAIDU

12/22/2017

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12/22/2017

CHECKED BY: C. MIRKIN

12/22/2017

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

REVISION

DATE

BY

FED.AID
PROJ.NO.

** WA - **

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

00****



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

DRAINAGE DETAILS

C07.40

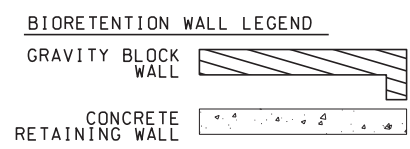
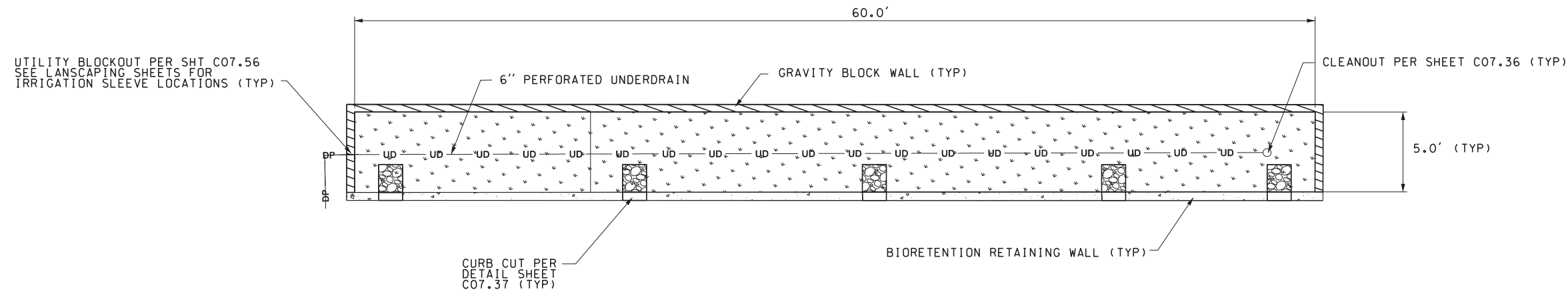
SHEET

172

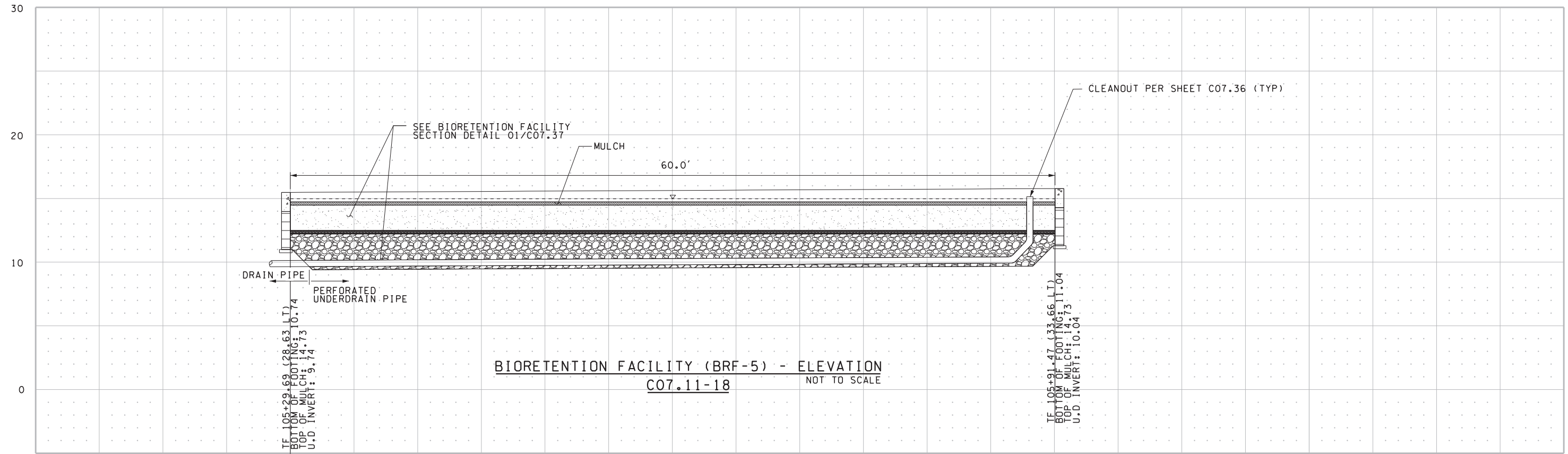
OF

1521

SHEETS



BIORETENTION FACILITY (BRF-5) - PLAN
C07.11-18 NOT TO SCALE

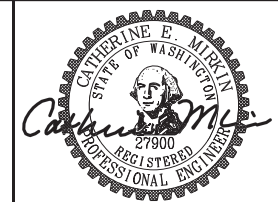


BIORETENTION FACILITY (BRF-5) - ELEVATION
C07.11-18 NOT TO SCALE



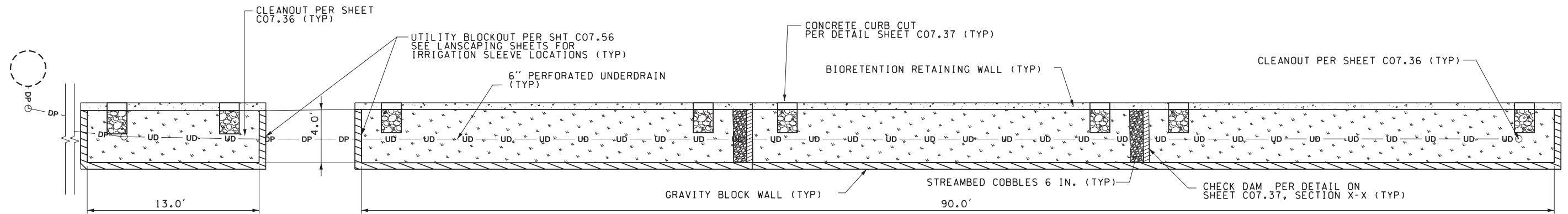
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ENTERED BY: R. NAIDU	12/22/2017			
CHECKED BY: C. MIRKIN	12/22/2017			
MAR PROJ ENGR: C. TORRES				
DIR TERM ENGR: N. MCINTOSH				
ASST SECRETARY: A. SCARTON				
	REVISION	DATE	BY	

FED.AID PROJ.NO.
** WA - **
REGION NO. STATE
10 WASH
JOB NUMBER
18W121
CONTRACT NO.
00*****



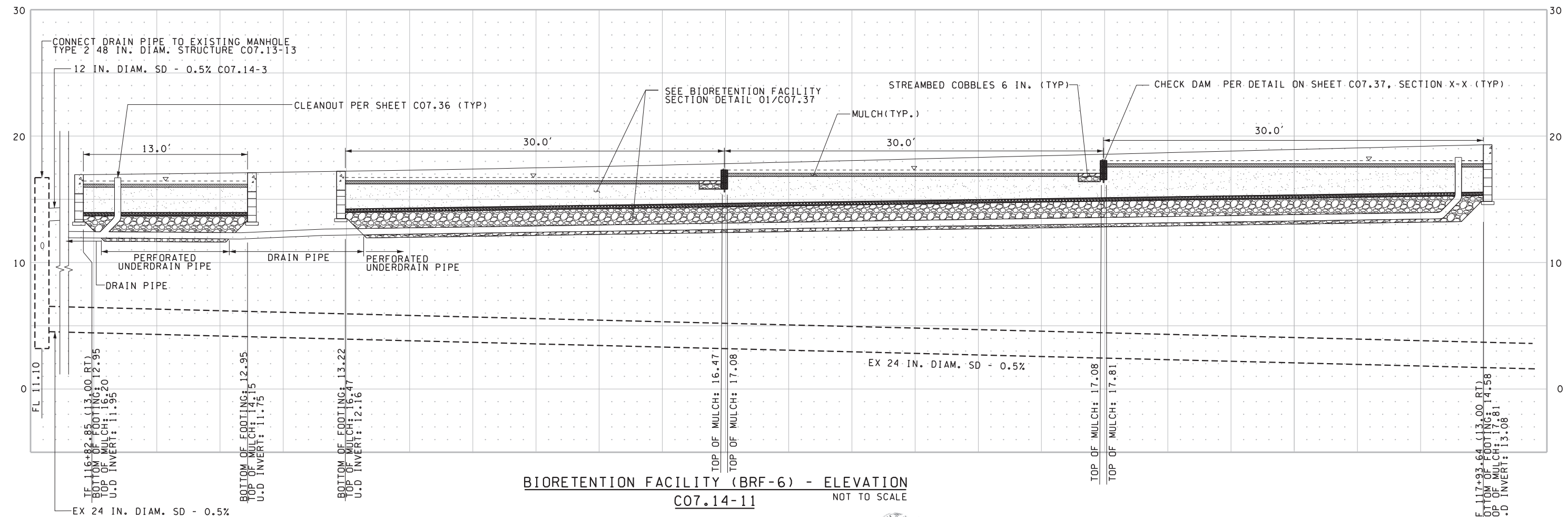
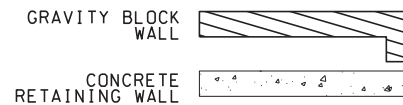
SR 525	
MUKILTEO FERRY TERMINAL (PHASE 2)	
FERRY TERMINAL CONSTRUCTION	
DRAINAGE DETAILS	

C07.41
SHEET
173
OF
1521
SHEETS



BIORETENTION FACILITY (BRF-6) - PLAN
C07.14-11 NOT TO SCALE

BIORETENTION WALL LEGEND



BIORETENTION FACILITY (BRF-6) - ELEVATION
C07.14-11 NOT TO SCALE



FILE NAME: WSF\Mukilteo\CADD\WORKING\CM-DESIGN\14w121_c07.43.dwg

PRINTED: 4:37:36 PM 9/21/2018
SUBMITTAL DATE: 8/23/2018
DESIGNED BY: R. NAIDU
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CHECKED BY: C. MIRKIN
MAR PROJ ENGR: C. TORRES
DIR TERM ENGR: N. MCINTOSH
ASST SECRETARY: A. SCARTON

LAST PRINTED BY: chester
12/22/2017
12/22/2017
12/22/2017

REVISION

DATE

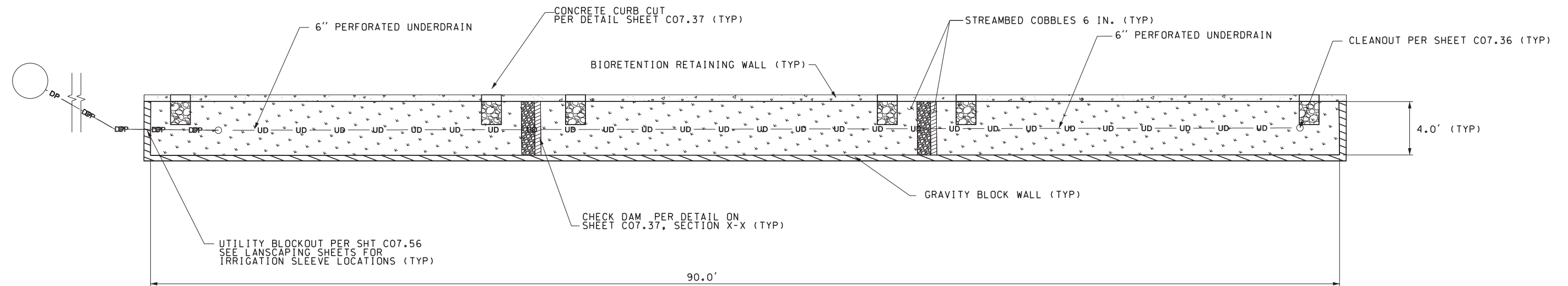
BY

FED.AID PROJ.NO.
*- WA - **
REGION NO. STATE
10 WASH
JOB NUMBER
18W121
CONTRACT NO.
00****

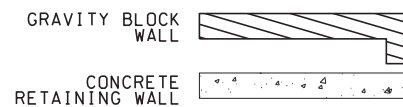


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
DRAINAGE DETAILS

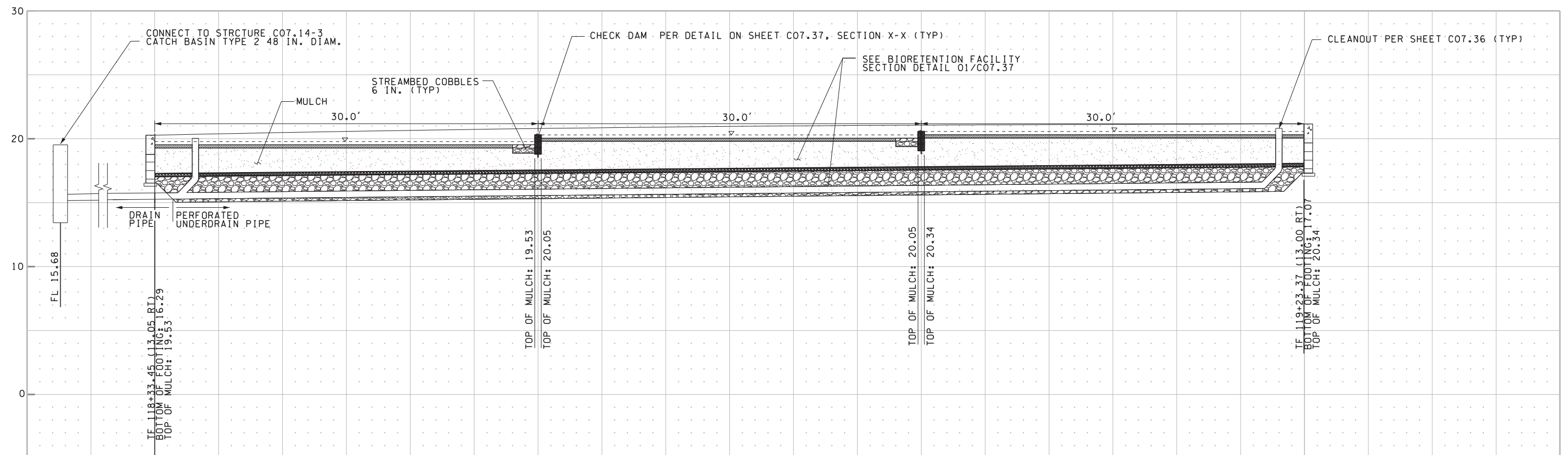
C07.43
SHEET
174
OF
1521
SHEETS



BIORETENTION WALL LEGEND



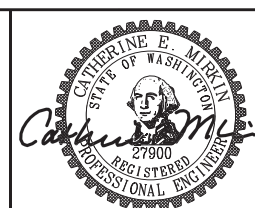
BIORETENTION FACILITY (BRF-7) - PLAN C07.14-12 NOT TO SCALE



BIORETENTION FACILITY (BRF-7) - ELEVATION C07.14-12 NOT TO SCALE

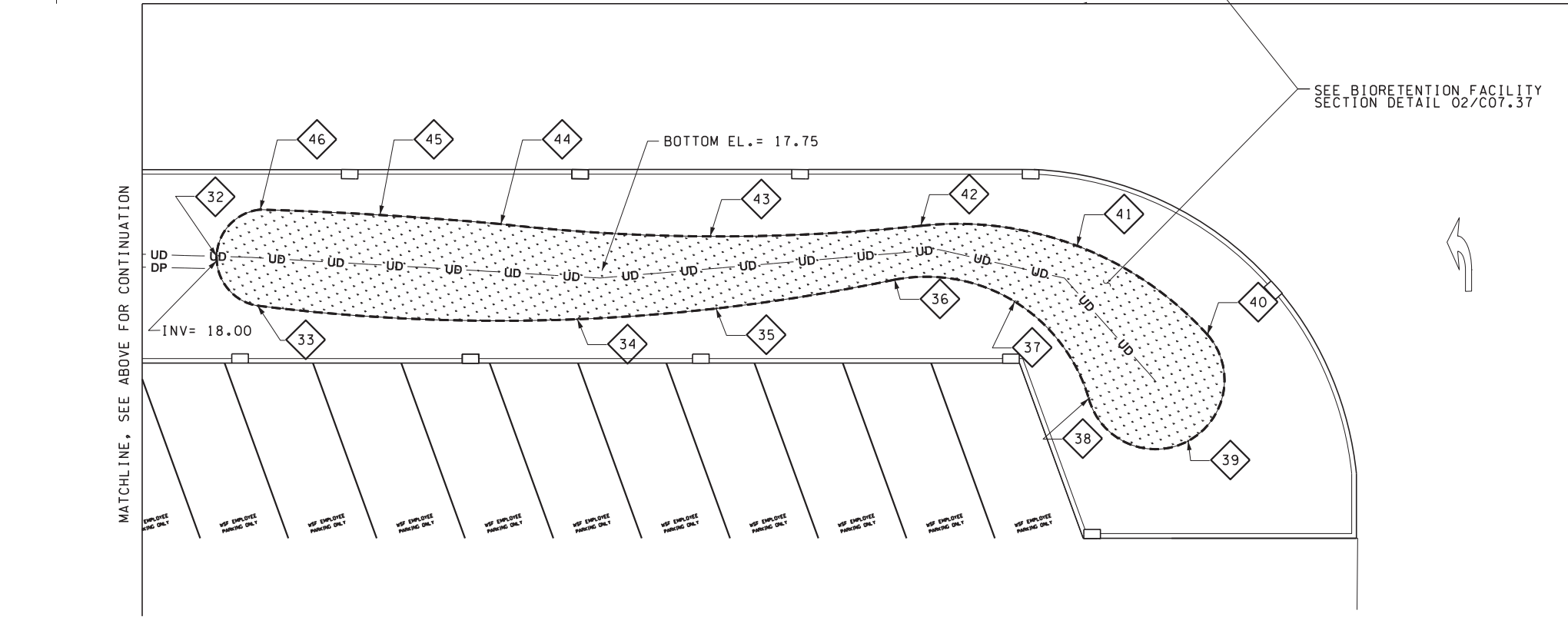
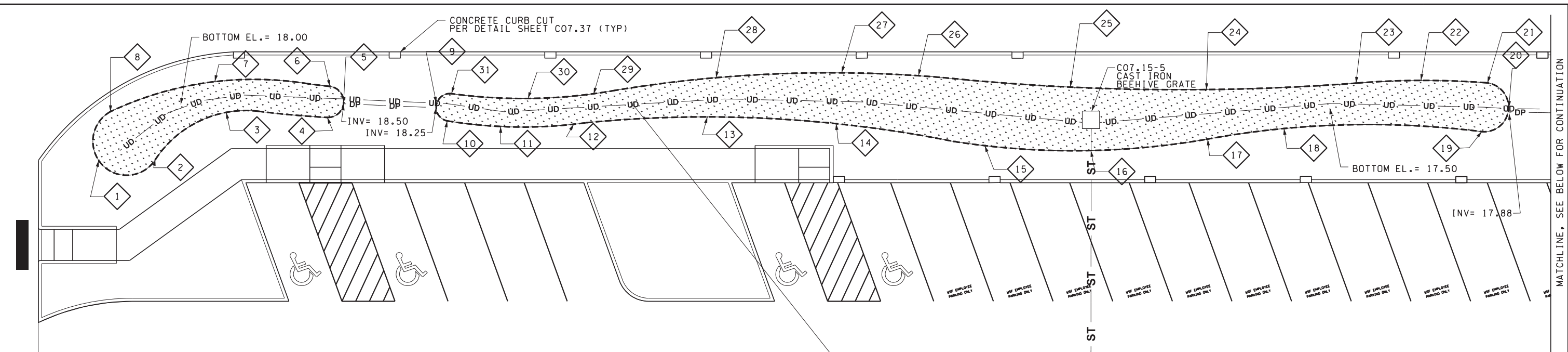


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DESIGNED BY: R. NAIDU	12/22/2017			
ENTERED BY: R. NAIDU	12/22/2017			
CHECKED BY: C. MIRKIN	12/22/2017			
MAR PROJ ENGR: C. TORRES				
DIR TERM ENGR: N. MCINTOSH				
ASST SECRETARY: A. SCARTON				
	REVISION	DATE	BY	



SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	
DRAINAGE DETAILS	

C07.44
SHEET
175
OF
1521
SHEETS



BIORETENTION FACILITY (BRF-8) - STAKING POINT COORDINATES							
1	S+α	120+77.65	(87.03 LT)	31	S+α	121+30.93	(97.28 LT)
2	S+α	120+85.42	(86.91 LT)	32	S+α	123+15.46	(94.57 LT)
3	S+α	120+95.17	(94.29 LT)	33	S+α	123+19.91	(89.23 LT)
4	S+α	121+10.95	(93.49 LT)	34	S+α	123+54.56	(87.76 LT)
5	S+α	121+13.58	(95.76 LT)	35	S+α	123+69.65	(88.92 LT)
6	S+α	121+11.35	(98.46 LT)	36	S+α	123+88.98	(92.04 LT)
7	S+α	120+93.65	(99.24 LT)	37	S+α	124+01.35	(89.68 LT)
8	S+α	120+79.48	(94.77 LT)	38	S+α	124+08.37	(79.28 LT)
9	S+α	121+28.51	(95.71 LT)	39	S+α	124+17.87	(75.01 LT)
10	S+α	121+30.20	(92.92 LT)	40	S+α	124+19.26	(86.63 LT)
11	S+α	121+38.79	(92.02 LT)	41	S+α	124+19.26	(86.63 LT)
12	S+α	121+50.51	(92.39 LT)	42	S+α	123+91.85	(97.90 LT)
13	S+α	121+71.97	(93.55 LT)	43	S+α	123+69.00	(96.74 LT)
14	S+α	121+92.65	(92.49 LT)	44	S+α	123+46.29	(98.07 LT)
15	S+α	122+16.52	(88.95 LT)	45	S+α	123+33.19	(99.07 LT)
16	S+α	122+33.54	(88.17 LT)	46	S+α	123+20.19	(99.66 LT)
17	S+α	122+52.30	(90.02 LT)				
18	S+α	122+64.55	(91.70 LT)				
19	S+α	122+96.29	(91.20 LT)				
20	S+α	123+00.61	(95.07 LT)				
21	S+α	122+97.23	(99.02 LT)				
22	S+α	122+86.53	(99.40 LT)				
23	S+α	122+76.12	(98.96 LT)				
24	S+α	122+52.11	(97.93 LT)				
25	S+α	122+30.26	(98.32 LT)				
26	S+α	122+05.88	(100.16 LT)				
27	S+α	121+93.54	(100.64 LT)				
29	S+α	121+73.37	(99.86 LT)				
30	S+α	121+43.54	(96.52 LT)				

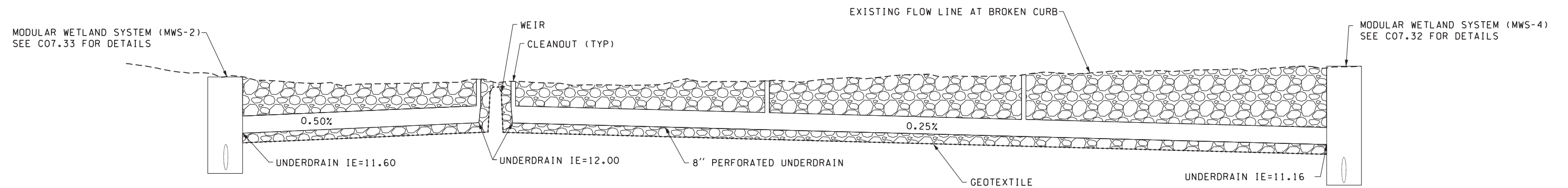
GENERAL NOTES:

1. BOTTOM AREA OF BIORETENTION FACILITY SHALL NOT BE LESS THAN 2560 SF.

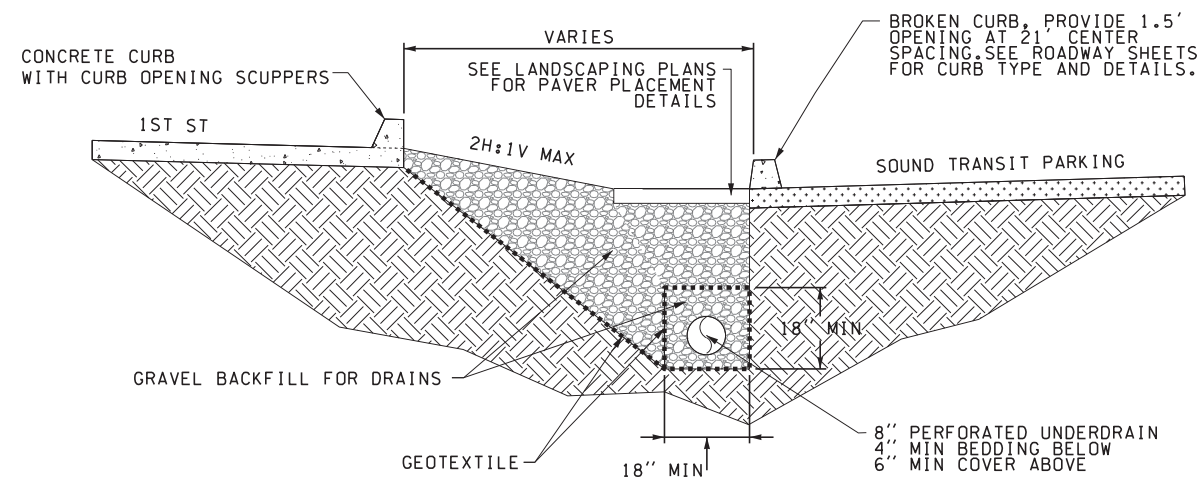
2. SEE PLANTING PLAN C09.55

BIORETENTION FACILITY (BRF-8) - PLAN
C07.15-6

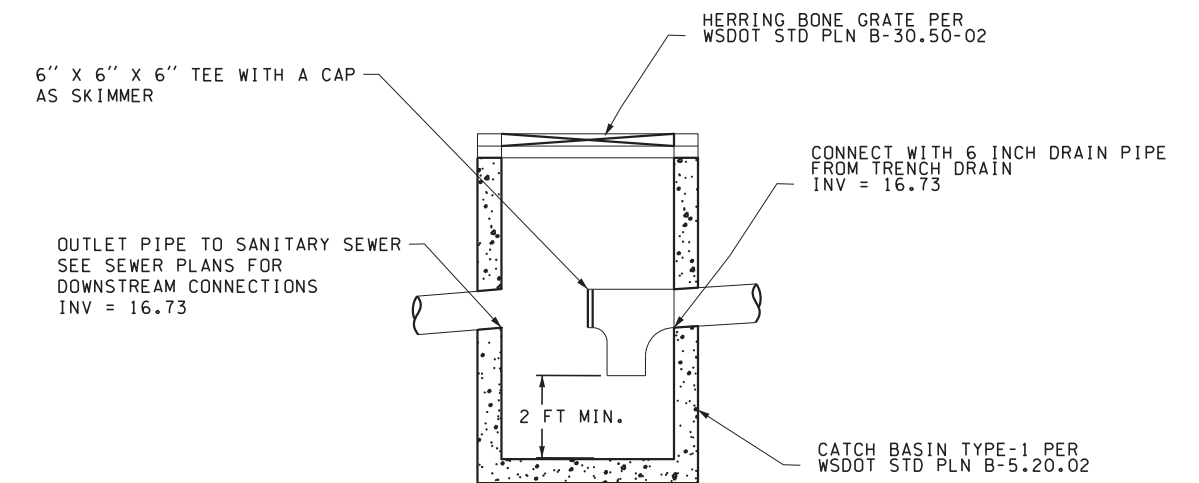




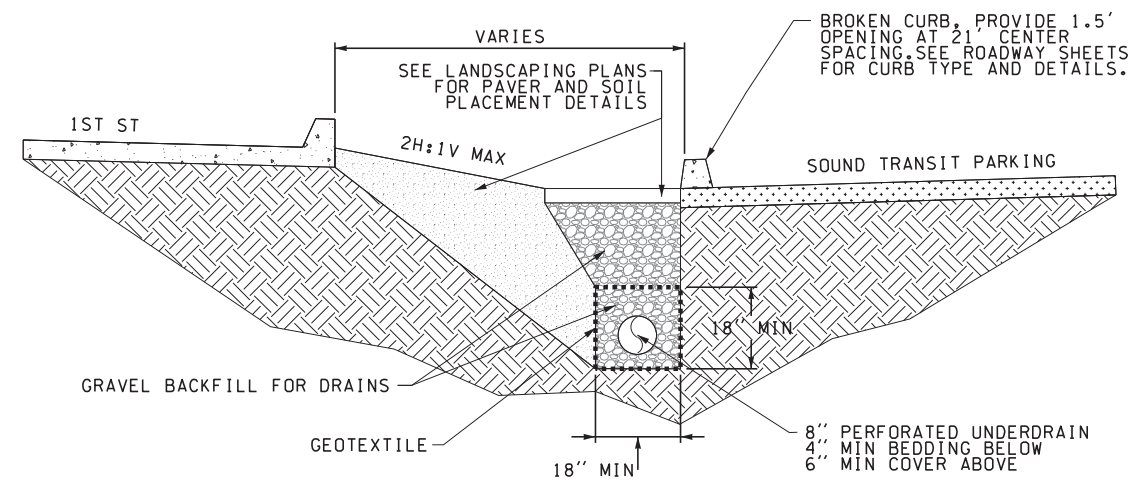
2 DRAINAGE DITCH - PROFILE
C07.11 NOT TO SCALE



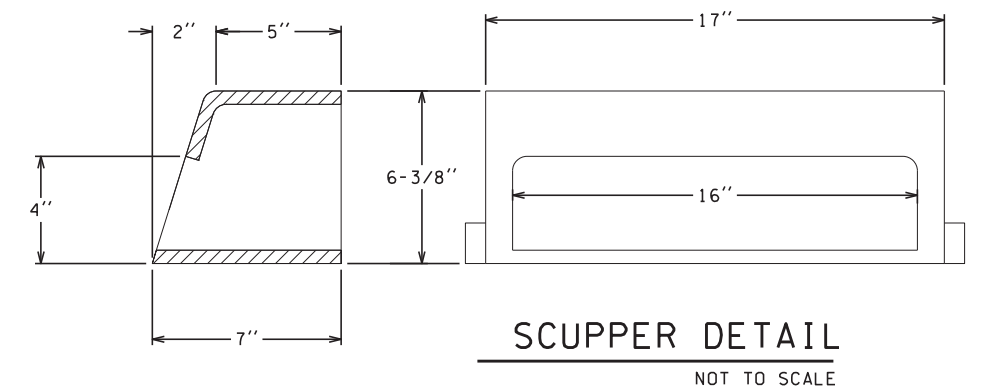
DRAINAGE DITCH - SECTION AT SCUPPER LOCATIONS
NOT TO SCALE



3 GRIT CHAMBER - TYPICAL SECTION
C07.46 NOT TO SCALE



DRAINAGE DITCH - TYPICAL SECTION
NOT TO SCALE

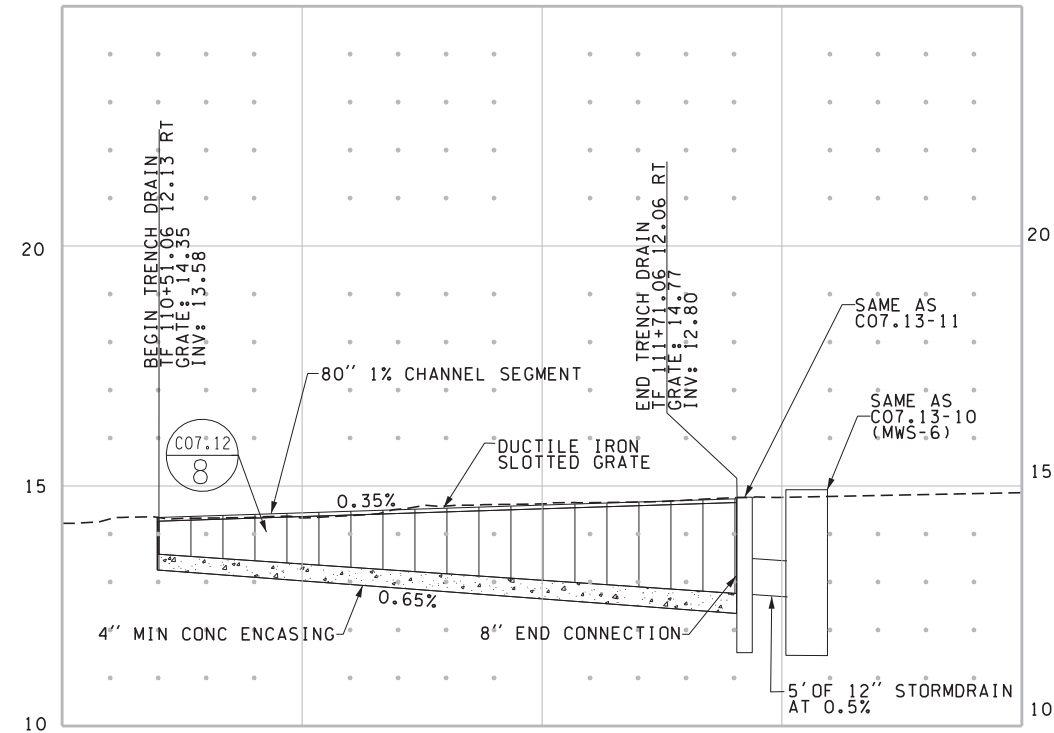


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DESIGNED BY: R. NAIDU	12/22/2017			REGION NO. STATE
ENTERED BY: C. BENNETT	12/22/2017			10 WASH
CHECKED BY: C. MIRKIN	12/22/2017			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00****
	REVISION	DATE	BY	

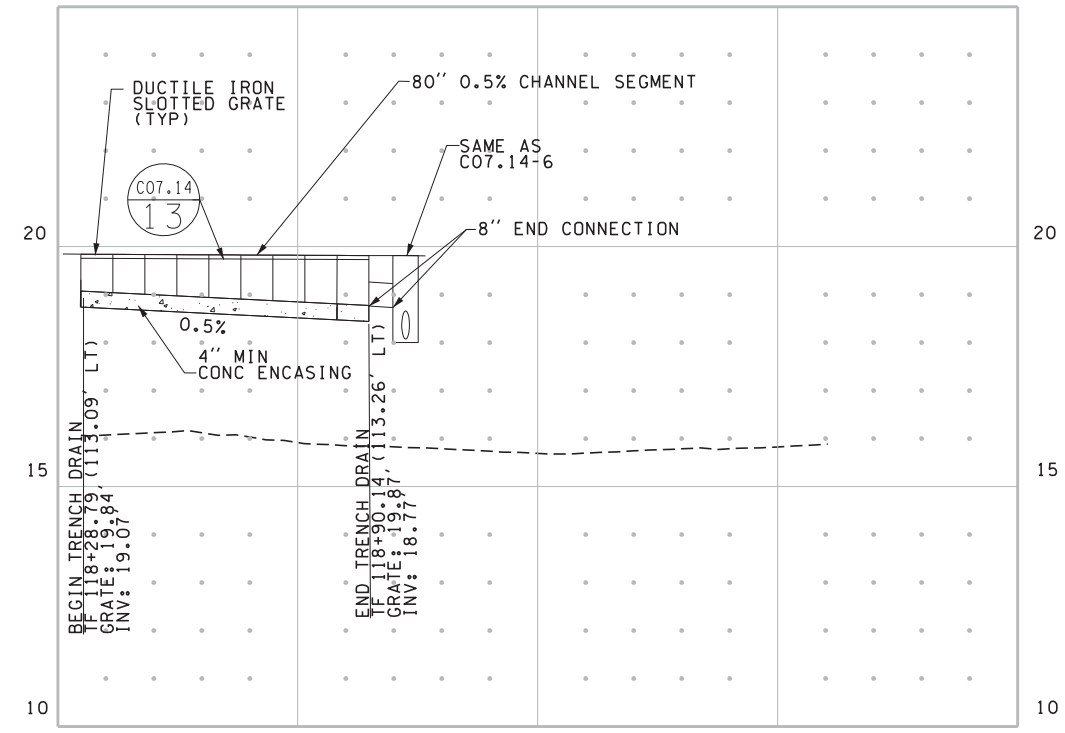


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
DRAINAGE DETAILS

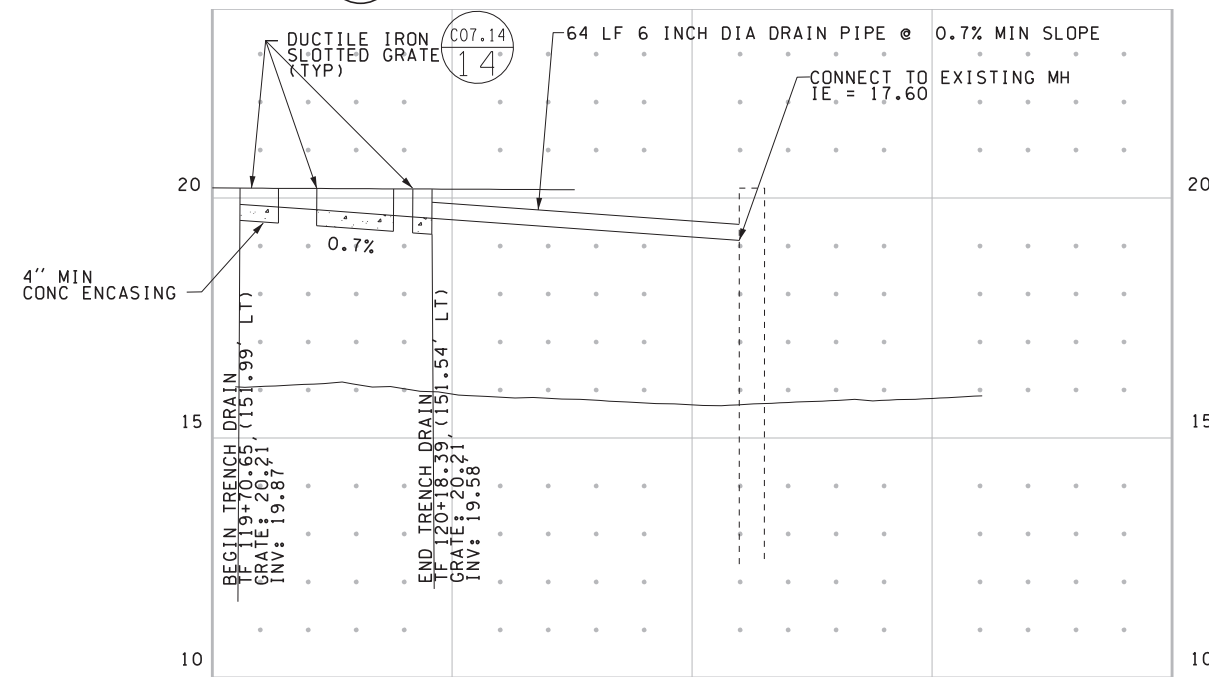
C07.46
SHEET
177
OF
1521
SHEETS



1 TRENCH DRAIN CROSS SECTION
C07.47 SCALE: 10V:1H



2 TRENCH DRAIN CROSS SECTION
C07.47 SCALE: 10V:1H



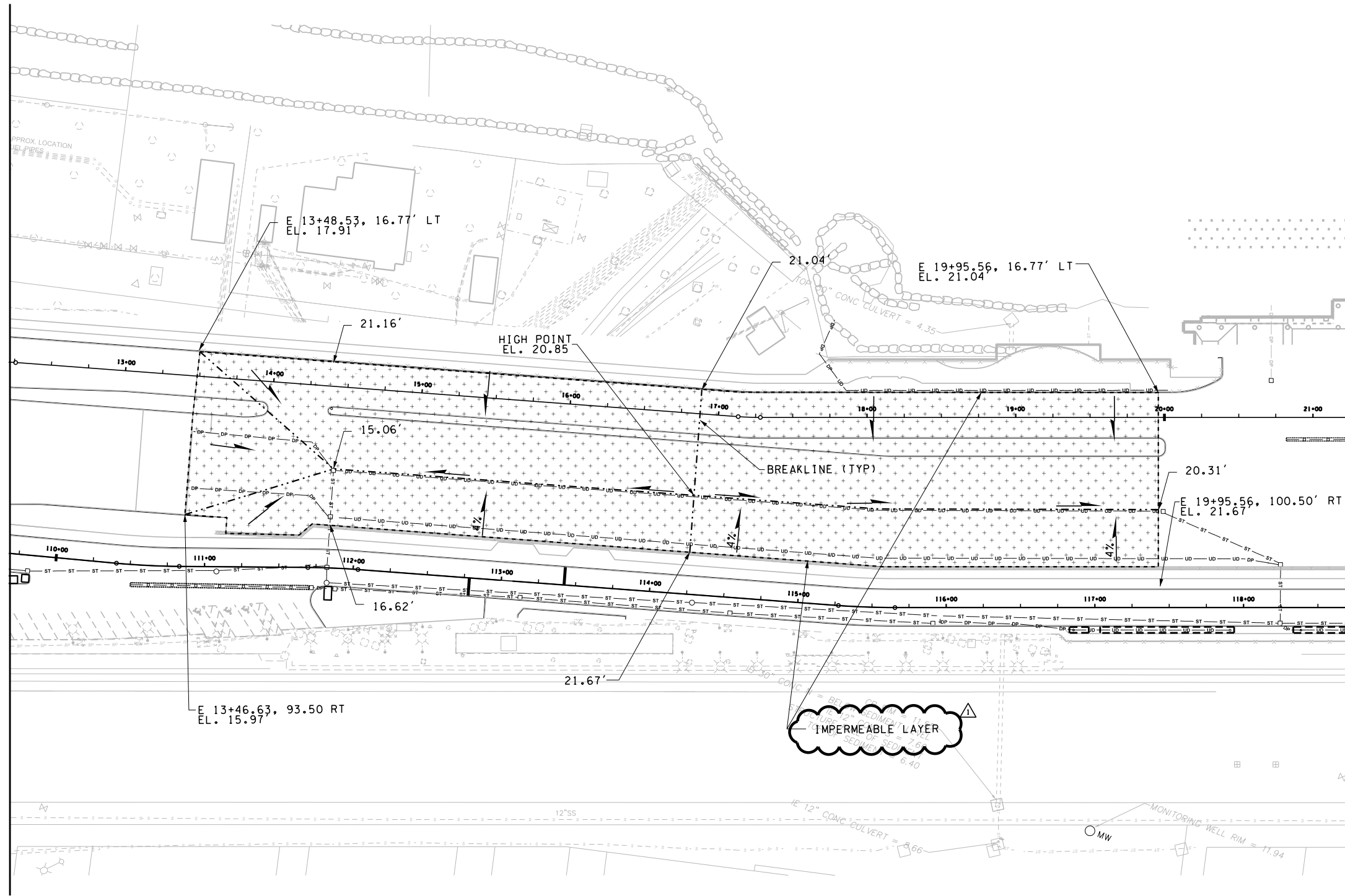
3 TRENCH DRAIN CROSS SECTION
C07.47 SCALE: 10V:1H




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ENTERED BY: R. NAIDU	12/22/2017				10 WASH
CHECKED BY: C. MIRKIN	12/22/2017				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	00****



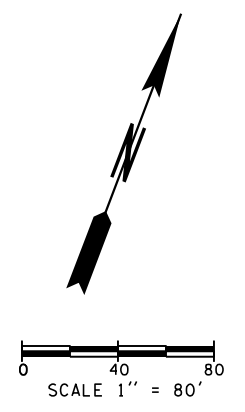
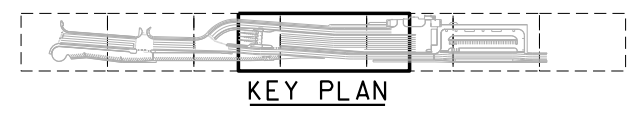
SR 525		C07.47
MUKILTEO FERRY TERMINAL (PHASE 2)		
FERRY TERMINAL CONSTRUCTION		SHEET
		178
		OF
		1521
DRAINAGE DETAILS		SHEETS





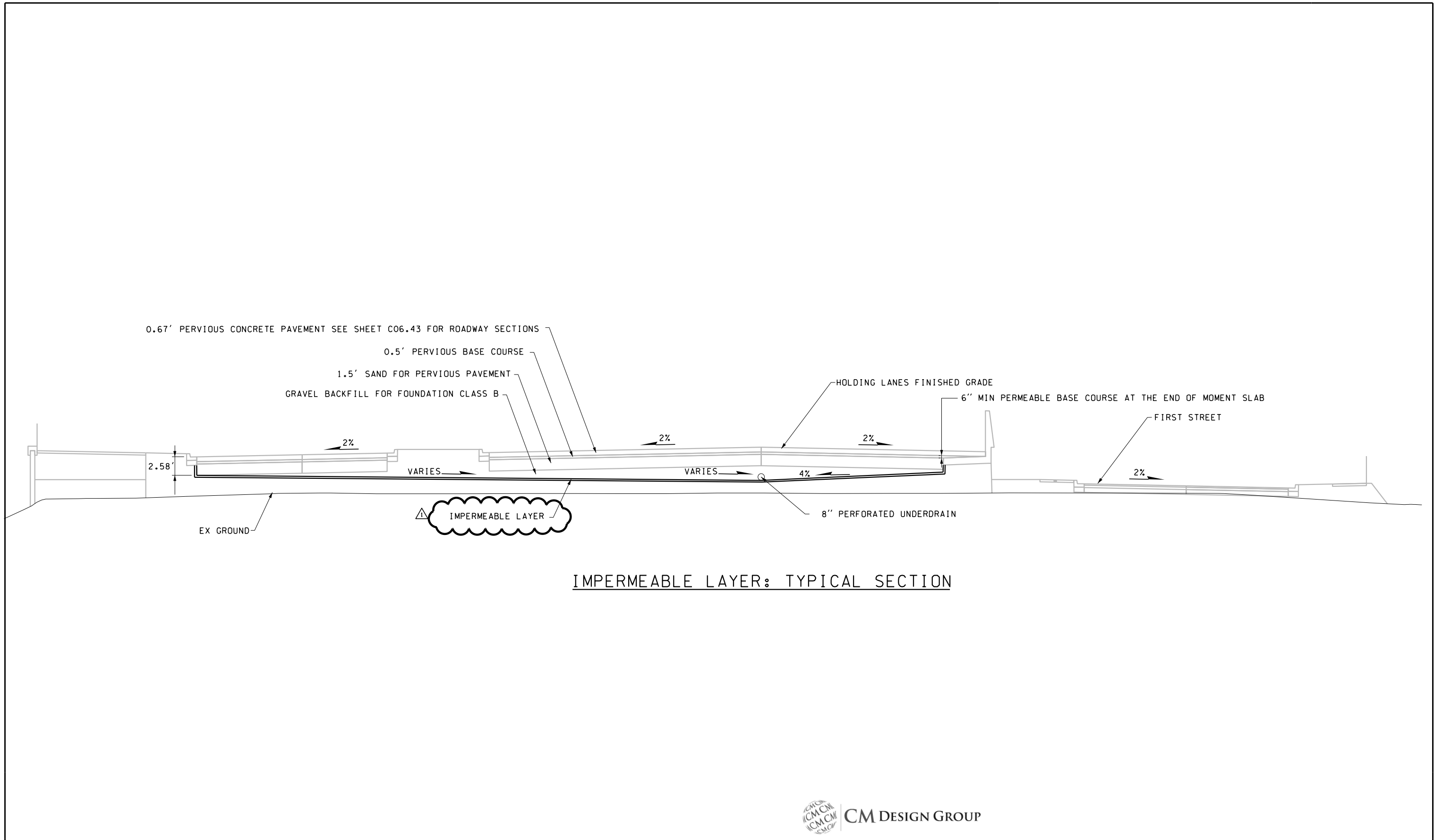
LEGEND:

 IMPERMEABLE LAYER LIMITS

IMPERMEABLE LAYER

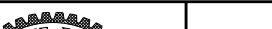



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PRINTED: 1:59:58 PM 10/15/2018															LAST PRINTED BY:										FED.AID PROJ.NO.				
SUBMITTAL DATE: 8/23/2018					chester										*- WA - **					FERRY TERMINAL CONSTRUCTION					SHEET				
DESIGNED BY: R. NAIDU					12/22/2017										REGION NO. STATE					179									
ENTERED BY: R. NAIDU					12/22/2017										10 WASH					OF									
CHECKED BY: C. MIRKIN					12/22/2017										JOB NUMBER					1521									
MAR PROJ ENGR: C. TORRES															18W121					DRAINAGE DETAILS					SHEETS				
DIR TERM ENGR: N. MCINTOSH					ADDENDUM NO. 1					10/15/2018					CONTRACT NO.														
ASST SECRETARY: A. SCARTON					REVISION					DATE					BY														
															00****														



IMPERMEABLE LAYER: TYPICAL SECTION



FILE NAME: WSF\Mukilteo\CADD\WORKING\CM-DESIGN\14w121_c07_49.dwg														 Washington State Department of Transportation WASHINGTON STATE FERRIES		SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION		C07.49	
PRINTED: 1:19:17 PM 10/15/2018		LAST PRINTED BY:				FED.AID PROJ.NO.		SHEET											
SUBMITTAL DATE: 8/23/2018		chester												180					
DESIGNED BY: R. NAIDU		12/22/2017						*- WA- ***						OF					
ENTERED BY: R. NAIDU		12/22/2017						REGION NO. STATE						1521					
CHECKED BY: C. MIRKIN		12/22/2017						10 WASH						SHEETS					
MAR PROJ ENGR: C. TORRES								JOB NUMBER											
DIR TERM ENGR: N. MCINTOSH				ADDENDUM NO. 1		10/15/2018		CM		18W121									
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY		CONTRACT NO.									
										00****									



STRUCTURE NOTES - DRAINAGE

NOTE: THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.																		GENERAL NOTES:	
CODE	LOCATION ▼ \ UNIT OF MEASURE ►	C.Y.	EACH	C.Y.		L.F.	L.F.	L.F.	EACH	EACH	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	SEE GENERAL NOTES		
C07.10-1	TF 100+01.63 (52.04' RT) TO TF 100+11.36 (13.53' RT)											38		0	0			1. CATCH BASIN TYPE 1 STANDARD PLAN B-5.20.02	
C07.10-2	TF 100+11.36 (13.53' RT) TO TF 102+17.78 (14.78' RT)											207						2. CONCRETE INLET STANDARD PLAN B-25.60.01.	
C07.10-3	TF 102+17.78 (14.78' RT) TO TF 102+17.85 (18.79' LT)							14				36						3. CATCH BASIN TYPE 2 STANDARD PLAN B-10.20.01.	
C07.10-4	TF 102+17.85 (18.79' LT) TO TF 104+26.61 (18.75' LT)							22		1		209					3	4. MANHOLE TYPE 1 - STANDARD PLAN B -15.20.01.	
C07.10-5	COM 23+31.46 (31.06' RT) TO COM 23+31.03 (25.76' RT)								1		0			6			1	5. SEE STORM SEWER CLEANOUT DETAIL ON C07.36	
C07.10-6	COM 23+31.03 (25.76' RT) TO COM 22+33.23 (22.41' RT)									1	0			98			3	6. SEE TRENCH DRAIN DETAILS ON C07.46	
C07.10-7	TF 101+57.92 (33.48' LT) TO TF 102+17.85 (18.79' LT)	0.69				45												7. SEE DRAINAGE DITCH DETAILS ON C07.47	
C07.10-8	TF 101+66.61 (23.81' RT) TO TF 102+10.18 (27.61' RT)	0.69				45												8. SEE BIORETENTION FACILITY DETAILS ON C07.37	
C07.11-1	TF 104+26.61 (18.75' LT) TO TF 104+26.80 (28.64' LT)											10						9. SEE MODULAR WETLAND SYSTEM DETAILS ON SHEETS C07.30 TO C07.35	
C07.11-2	TF 104+26.80 (28.64' LT) TO TF 104+50.83 (29.63' LT)							6	1			24						10. INSTALL ELASTOMERIC CHECK VALVE	
C07.11-3	TF 104+50.83 (29.63' LT)																	11. SEE SUBSURFACE LINER DETAIL ON SHEETS C07.48 AND C07.49	
C07.11-4	COM 22+33.15 (31.01' RT) TO COM 22+33.23 (22.41' RT)								1		0			19				12. SEE SPECIAL PROVISIONS	
C07.11-5	COM 22+33.23 (22.41' RT) TO COM 21+25.43 (15.89' RT)								1		0			108				13. USE BIRD CAGE FROM EXISTING OUTFALL STRUCTURE	
C07.11-6	COM 21+25.43 (15.89' RT) TO COM 21.14.08 (23.39' RT)								1		0			11					
C07.11-7	COM 21+14.08 (23.39' RT) TO COM 21+09.90 (15.58' RT)										0			5					
C07.11-8	COM 21+09.90 (15.58' RT) TO COM 20+63.41 (2.19' LT)								1		0			45					
C07.11-9	COM 20+63.41 (2.19' LT)																13		
C07.11-10	TF 104+27.18 (27.14' RT) TO TF 104+27.43 (22.53' RT)							39	1		5								
C07.11-11	TF 104+27.43 (22.53' RT) TO TF 104+50.83 (29.63' LT)								1		58								
C07.11-12	TF 105+29.69 (28.58' LT) TO TF 105+29.09 (22.57' RT)								1		52								
C07.11-13	TF 105+29.09 (22.57' RT) TO TF 106+45.04 (22.53' RT)								1		116								
C07.11-14	TF 106+45.04 (22.53' RT) TO TF 108+79.80 (15.43' RT)									1		234							
C07.11-15	TF 105+29.48 (29.31' RT) TO TF 105+29.09 (22.57' RT)							3			5								
C07.11-16	TF 103+17.03 (33.27' LT) TO TF 104+26.80 (28.64' LT)	1.11				115		12											
C07.11-17	TF 103+37.10 (27.50' RT) TO TF 104+27.18 (27.14' RT)	0.42				89													
C07.11-18	TF 105+87.71 (33.16' LT) TO TF 105+29.68 (28.58' LT)	0.37				61		5											
C07.11-19	TF 104+25.70 (62.02' LT) TO TF 104+51.03 (36.94' LT)	18.52		4						1									
C07.11-20	TF 104+50.74 (37.27' LT)							18											
C07.11-21	TF 104+28.63 (37.92' LT)																		
C07.11-22	TF 105+34.41 (24.00' RT)	0.83																	
C07.11-23	TF 105+84.41 (24.01' RT)	0.83																	
C07.12-1	TF 108+79.80 (15.43' RT) TO TF 109+66.88 (10.56' RT)									1		0			88		3		
C07.12-2	TF 109+66.88 (10.56' RT) TO TF 109+81.62 (10.61' RT)									1		0			15		3		
C07.12-3	TF 109+81.62 (10.61' RT) TO TF 111+08.05 (3.24' RT)									1		0			128		3		
C07.12-4	TF 111+08.05 (3.24' RT) TO TF 111+82.32 (0.40' RT)											0			75				
C07.12-5	TF 108+30.85 (37.30' LT) TO TF 108+69.08 (22.22' LT)								1		42						1		
C07.12-6	TF 108+69.08 (22.22' LT) TO TF 108+82.44 (21.81' LT)								1		10						1		
C07.12-7	TF 108+82.44 (21.81' LT) TO TF 108+79.80 (15.43' RT)										37								
C07.12-8	TF 110+51.01 (13.62' RT) TO TF 111+71.96 (13.52' RT)																		
C07.12-9	TF 109+70.94 (17.49' RT) TO TF 109+66.88(10.56' RT)							2			5								
C07.12-10	TF 109+80.54 (15.78' RT) TO TF 109+81.62 (10.61' RT)										5								



STRUCTURE NOTES - DRAINAGE

NOTE:THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.																		GENERAL NOTES:	
		STORM SEWER CLEANOUT	TESTING STORM SEWER PIPE	STRUCTURE EXCAVATION CLASS B INCL. HAUL		ADJUST MANHOLE	ADJUST CATCH BASIN	SHORING OR EXTRA EXCAVATION CLASS B		GRAVEL BACKFILL FOR DRAIN	GRAVITY BLOCK WALL	MANHOLE 48 IN, DIAM, TYPE 1		MANHOLE ADDITIONAL HEIGHT 48 IN. DIAM. TYPE 1	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE	CONNECTION TO DRAINAGE STRUCTURE	SEE GENERAL NOTES		
CODE	LOCATION ∨ \ UNIT OF MEASURE ➤	EACH	L.F.	C.Y.		EACH	EACH	S.F.		C.Y.	S.F.	EACH		L.F.	S.Y.	EACH			
C07.10-1	TF 100+01.63 (52.04' RT) TO TF 100+11.36 (13.53' RT)		38			3		877								1		1. CATCH BASIN TYPE 1 STANDARD PLAN B-5.20.02 2. CATCH BASIN TYPE 1L STANDARD PLAN B-5.40.02. 3. CATCH BASIN TYPE 2 STANDARD PLAN B-10.20.01. 4. MANHOLE TYPE 1 - STANDARD PLAN B -15.20.01. 5. SEE STORM SEWER CLEANOUT DETAIL ON C07.36 6. SEE TRENCH DRAIN DETAILS ON C07.46 7. SEE DRAINAGE DITCH DETAILS ON C07.47 8. SEE BIORETENTION FACILITY DETAILS ON C07.37 9. SEE MODULAR WETLAND SYSTEM DETAILS ON SHEETS C07.30 TO C07.35 10. INSTALL ELASTOMERIC CHECK VALVE 11. SEE SUBSURFACE LINER DETAIL ON SHEETS C07.48 AND C07.49 12. SEE SPECIAL PROVISIONS 13. USE BIRD CAGE FROM EXISTING OUTFALL STRUCTURE	
C07.10-2	TF 100+11.36 (13.53' RT) TO TF 102+17.78 (14.78' RT)		207	10.37				4040				1							
C07.10-3	TF 102+17.78 (14.78' RT) TO TF 102+17.85 (18.79' LT)		36	8.13				536				1							
C07.10-4	TF 102+17.85 (18.79' LT) TO TF 104+26.61 (18.75' LT)		209	12.46				2486											
C07.10-5	COM 23+31.46 (31.06' RT) TO COM 23+31.03 (25.76' RT)		6	5.58				78											
C07.10-6	COM 23+31.03 (25.76' RT) TO COM 22+33.23 (22.41' RT)		98	10.43				1279											
C07.10-7	TF 101+57.92 (33.48' LT) TO TF 102+17.85 (18.79' LT)	1							5.73	207.5					36		5		
C07.10-8	TF 101+66.61 (23.81' RT) TO TF 102+10.18 (27.61' RT)	1							5.73	207.5					36		5		
C07.11-1	TF 104+26.61 (18.75' LT) TO TF 104+26.80 (28.64' LT)		10	7.55				97				1							
C07.11-2	TF 104+26.80 (28.64' LT) TO TF 104+50.83 (29.63' LT)		24	4.98				225											
C07.11-3	TF 104+50.83 (29.63' LT)						1									1			
C07.11-4	COM 22+33.15 (31.01' RT) TO COM 22+33.23 (22.41' RT)		19	4.35				239											
C07.11-5	COM 22+33.23 (22.41' RT) TO COM 21+25.43 (15.89' RT)		108	4.96				1245											
C07.11-6	COM 21+25.43 (15.89' RT) TO COM 21.14.08 (23.39' RT)		11	4.2				120											
C07.11-7	COM 21+14.08 (23.39' RT) TO COM 21+09.90 (15.58' RT)		5	27.48				47	1.3										
C07.11-8	COM 21+09.90 (15.58' RT) TO COM 20+63.41 (2.19' LT)		45	5.26				416											
C07.11-9	COM 20+63.41 (2.19' LT)					1										1			
C07.11-10	TF 104+27.18 (27.14' RT) TO TF 104+27.43 (22.53' RT)		5	5.38				52											
C07.11-11	TF 104+27.43 (22.53' RT) TO TF 104+50.83 (29.63' LT)		58	4.99				594											
C07.11-12	TF 105+29.69 (28.58' LT) TO TF 105+29.09 (22.57' RT)		52	5.2				540											
C07.11-13	TF 105+29.09 (22.57' RT) TO TF 106+45.04 (22.53' RT)		116	5.5				1155											
C07.11-14	TF 106+45.04 (22.53' RT) TO TF 108+79.80 (15.43' RT)		234	11.44				2125											
C07.11-15	TF 105+29.48 (29.31' RT) TO TF 105+29.09 (22.57' RT)		5	10.05				55	0.46										
C07.11-16	TF 103+17.03 (33.27' LT) TO TF 104+26.80 (28.64' LT)	1							14	474.95					89		5,12		
C07.11-17	TF 103+37.10 (27.50' RT) TO TF 104+27.18 (27.14' RT)	2							11.46	356.65					73		5,12		
C07.11-18	TF 105+87.71 (33.16' LT) TO TF 105+29.68 (28.58' LT)	2							7.64	245					48		5,12		
C07.11-19	TF 104+25.70 (62.02' LT) TO TF 104+51.03 (36.94' LT)									671.6					187		5,12		
C07.11-20	TF 104+50.74 (37.27' LT)						0									0			
C07.11-21	TF 104+28.63 (37.92' LT)						1									1			
C07.11-22	TF 105+34.41 (24.00' RT)																		
C07.11-23	TF 105+84.41 (24.01' RT)																		
C07.12-1	TF 108+79.80 (15.43' RT) TO TF 109+66.88 (10.56' RT)		88	12.36				693											
C07.12-2	TF 109+66.88 (10.56' RT) TO TF 109+81.62 (10.61' RT)		15	12.26				116											
C07.12-3	TF 109+81.62 (10.61' RT) TO TF 111+08.05 (3.24' RT)		128	12.24				970											
C07.12-4	TF 111+08.05 (3.24' RT) TO TF 111+82.32 (0.40' RT)		75	10.69				549				1		1					
C07.12-5	TF 108+30.85 (37.30' LT) TO TF 108+69.08 (22.22' LT)		42	3.53				559											
C07.12-6	TF 108+69.08 (22.22' LT) TO TF 108+82.44 (21.81' LT)		10	3.34				132											
C07.12-7	TF 108+82.44 (21.81' LT) TO TF 108+79.80 (15.43' RT)		37	16.26				431	0.83								12		
C07.12-8	TF 110+51.01 (13.62' RT) TO TF 111+71.96 (13.52' RT)																		
C07.12-9	TF 109+70.94 (17.49' RT) TO TF 109+66.88(10.56' RT)		5	18.05				44	0.83								12		
C07.12-10	TF 109+80.54 (15.78' RT) TO TF 109+81.62 (10.61' RT)		5	10.05				44	0.46								12		
														</					



STRUCTURE NOTES - DRAINAGE

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STRUCTURE NOTES - DRAINAGE

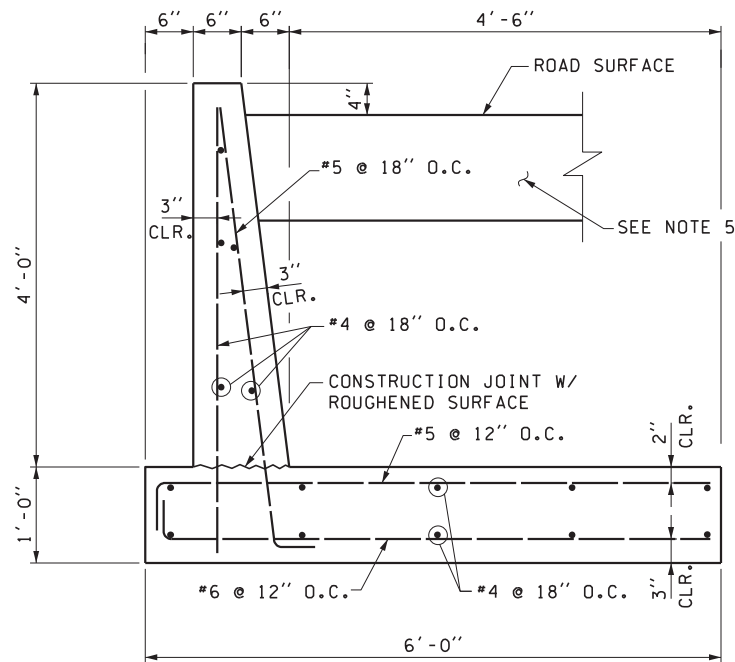
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CODE	LOCATION	UNIT OF MEASURE	C.Y.	EACH	C.Y.		UNDERDRAIN PIPE 6 IN. DIAM	UNDERDRAIN PIPE 8 IN. DIAM	DRAIN PIPE 6 IN. DIAM	CATCH BASIN TYPE 1	CATCH BASIN TYPE 2 48 IN. DIAM	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM	HDPE STORM SEWER PIPE 12 IN. DIAM.	HDPE STORM SEWER PIPE 18 IN. DIAM.	HDPE STORM SEWER PIPE 24 IN. DIAM.	SEE GENERAL NOTES																	
C07.12-11	TF 107+42.58 (24.01 RT)		0.83																	1. CATCH BASIN TYPE 1 STANDARD PLAN B-5.20.02															
C07.12-12	TF 107+93.01 (23.67 RT)		0.83																	2. CATCH BASIN TYPE 1L STANDARD PLAN B-5.40.02.															
C07.12-13	TF 108+43.47 (20.19 RT)		0.83																	3. CATCH BASIN TYPE 2 STANDARD PLAN B-10.20.01.															
C07.12-14	TF 108+93.65 (15.42 RT)		0.83																	4. MANHOLE TYPE 1 - STANDARD PLAN B -15.20.01.															
C07.12-15	TF 109+62.97 (12.00 RT)		0.83																	5. SEE STORM SEWER CLEANOUT DETAIL ON C07.36															
C07.13-1	TF 111+82.32 (0.40' RT) TO TF 111+82.45 (10.06' RT)										1		0			8		3	6. SEE TRENCH DRAIN DETAILS ON C07.46																
C07.13-2	TF 111+82.45 (10.06' RT) TO TF 114+29.01 (5.35' RT)												0			247			7. SEE DRAINAGE DITCH DETAILS ON C07.47																
C07.13-3	TF 114+29.01 (5.35' RT) TO TF 116+44.05 (9.71' RT)													0			168		8. SEE BIORETENTION FACILITY DETAILS ON C07.37																
C07.13-4	TF 115+90.99 (10.56' RT) TO TF 114+54.99 (10.53' RT)										1	0			137			3	9. SEE MODULAR WETLAND SYSTEM DETAILS ON SHEETS C07.30 TO C07.35																
C07.13-5	TF 11+54.99 (10.53' RT) TO TF 113+13.08 (10.59' RT)										1	0			142			3	10. INSTALL ELASTOMERIC CHECK VALVE																
C07.13-6	TF 113+13.08 (10.59' RT) TO TF 111+88.44 (13.87' RT)										1	0			125			3	11. SEE SUBSURFACE LINER DETAIL ON SHEETS C07.48 AND C07.49																
C07.13-7	TF 111+84.34 (65.73' LT) TO TF 111+83.44 (34.36' LT)							103			1	35						3	12. SEE SPECIAL PROVISIONS																
C07.13-8	TF 111+83.44 (34.36' LT) TO TF 111+82.32 (0.40' LT)							99			1	0			32			3	13. USE BIRD CAGE FROM EXISTING OUTFALL STRUCTURE																
C07.13-9	TF 111+88.44 (13.87' RT) TO TF 111+83.57 (17.03' RT)										1	3						3																	
C07.13-10	TF 111+83.57 (17.03' RT) TO TF 111+82.45 (10.06' RT)											3																							
C07.13-11	TF 111+71.96 (13.52' RT) TO TF 111+83.57 (17.03' RT)								9		1	8						3																	
C07.13-12	TF 111+84.34 (65.73' LT) TO TF 117+45.95 (64.73' LT)							560																											
C07.13-13	TF 115+95.88 (5.61 RT)								90																										
C07.13-14	E 17+76.87 (30.49 LT) TO E 17+78.16 (65.70 LT)								37																										
C07.14-1	TF 117+45.95 (64.73' LT) TO TF 118+24.82 (28.90' LT)			1								87						2																	
C07.14-2	TF 118+24.82 (28.90' LT) TO TF 118+24.59 (10.53' RT)								24		1	0			40			3																	
C07.14-3	TF 118+24.59 (10.53' RT) TO TF 116+44.05 (9.71' RT)								9		1	0			228			3																	
C07.14-4	TF 119+24.31 (10.57' RT) TO TF 118+24.59 (10.48' RT)										1	0			100			3																	
C07.14-5	TF 116+44.05 (9.71' RT) TO TF 116+44.03 (12.13' RT)										1			0																					
C07.14-6	TF 118+90.20 (113.11' LT) TO TF 119+00.18 (55.29' LT)									1		59						1																	
C07.14-7	TF 119+00.18 (55.29' LT) TO TF 119+00.83 (22.51' LT)									1		40						1																	
C07.14-8	TF 119+00.83 (22.51' LT) TO TF 119+27.73 (23.67' LT)									1		21						1																	
C07.14-9	TF 119+23.22 (22.32' LT) TO TF 119+24.31 (10.57' RT)											0			30																				
C07.14-10	TF 119+45.98 (55.02' LT) TO TF 119+00.18 (55.29' LT)								98	1		46						1																	
C07.14-11	TF 116+44.03 (16.72' RT) TO TF 117+90.95 (15.22' RT)		0.79				111																												
C07.14-12	TF 119+24.59 (10.53' RT) TO TF 119+20.84 (15.21' RT)		0.64				90																												
C07.14-13	TF 118+28.79 (113.09' LT) TO TF 118+90.20 (113.11' LT)																																		
C07.14-14	TF 118+18.63 (152.88' LT)		4.26							1								1																	
C07.14-15	TF 119+59.93 (153.09' LT)									1								1																	
C07.14-16	TF 119+69.98 (152.01' LT) TO TF 120+82.38 (156.95' LT)								68																										
C07.15-1	TF 122+55.90 (22.80' RT) TO TF 124+91.85 (14.76' RT)			1								0			232			2																	
C07.15-2	TF 124+91.85 (14.76' RT) TO TF 124+02.98 (17.46' RT)											0			85																				
C07.15-3	TF 124+02.98 (17.46' RT) TO TF 122+33.64 (16.71' RT)											0			170																				
C07.15-4	122+33.64 (16.71' RT) TO TF 120+76.71 (20.99' RT)											0			157																				
C07.15-5	TF 122+33.56 (93.10' LT) TO TF 122+33.64 (16.71' RT)									1		110						1																	
C07.15-6	TF 120+78.08 (86.35' LT) TO TF 124+17.86 (75.02' LT)								32																										
C07.15-8	TF 124+63.48 (143.79 LT) TO 124+83.04 (178.70 LT)								40																										
C07.48	E13+46.63 (93.50' RT) TO E 19+95.56, 100.50' RT)																																		
C07.46	TF 105+29.48 (29.31 RT) TO TF 109+70.94 (17.94 RT)							440																											
		SHEET TOTAL	9.84	2			201	1000	609	7	12	412			1478	255	168																		
		PROJECT TOTAL	33.3	2	4		556	1000	730	19	19	747	758		1770	561	168																		
SUBMITTAL DATE:		08/23/18				REGION NO.	STATE	FED. AID PROJ. NO.		<div></div> <div></div>				SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION			C07. 53																		
DESIGNED BY	R. NAIDU	12/22/17		10	WASH	WA-2017-007-00																													
ENTERED BY	C. BENNETT	12/22/17																																	
CHECKED BY	C. MIRKIN	12/22/17																																	
PROJ. ENGR.	C. TORRES																																		
REGION ADM.	A. SCARTON																				SHEET 184 OF 1521 SHEETS														
		DATE	DATE	REVISION		BY		STRUCTURE NOTES - DRAINAGE																											

STRUCTURE NOTES - DRAINAGE

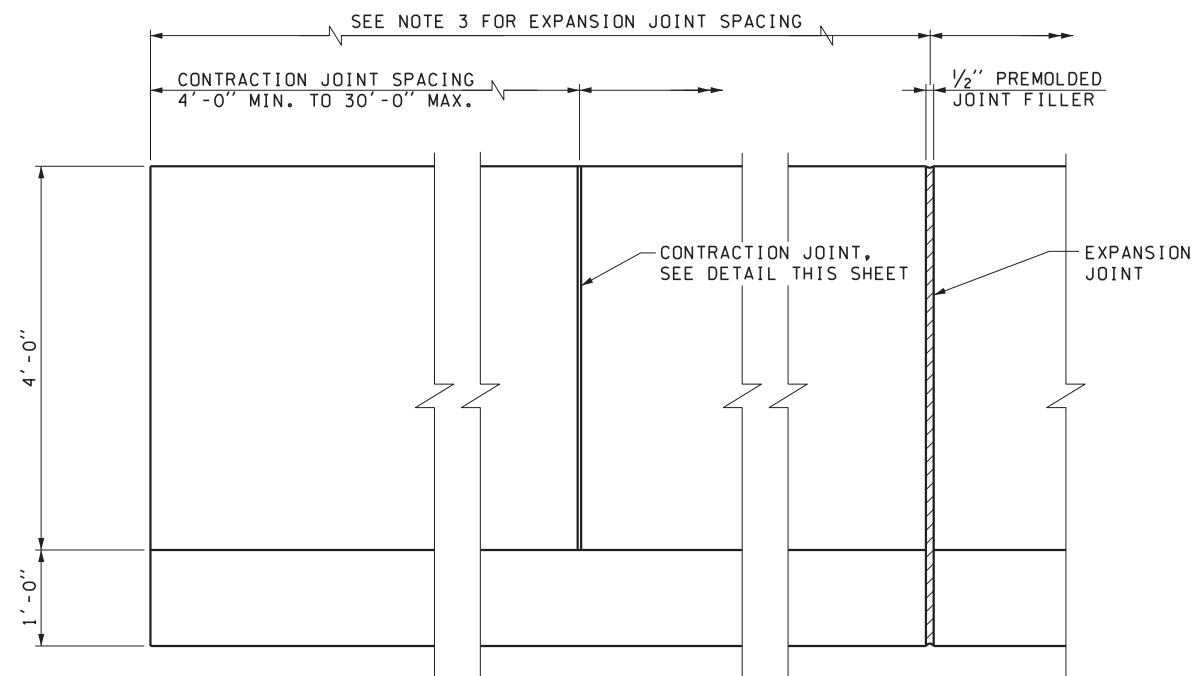
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		STORM SEWER CLEANOUT	TESTING STORM SEWER PIPE	STRUCTURE EXCAVATION CLASS B INCL. HAUL		ADJUST MANHOLE	ADJUST CATCH BASIN	SHORING OR EXTRA EXCAVATION CLASS B		GRAVEL BACKFILL FOR DRAIN	GRAVITY BLOCK WALL	MANHOLE 48 IN, DIAM, TYPE 1		MANHOLE ADDITIONAL HEIGHT 48 IN. DIAM. TYPE 1	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE	CONNECTION TO DRAINAGE STRUCTURE	SEE GENERAL NOTES
CODE	LOCATION ▼ \ UNIT OF MEASURE ►	EACH	L.F.	C.Y.		EACH	EACH	S.F.		C.Y.	S.F.	EACH		L.F.	S.Y.	EACH	
C07.12-11	TF 107+42.58 (24.01 RT)																1. CATCH BASIN TYPE 1 STANDARD PLAN B-5.20.02 2. CATCH BASIN TYPE 1L STANDARD PLAN B-5.40.02. 3. CATCH BASIN TYPE 2 STANDARD PLAN B-10.20.01. 4. MANHOLE TYPE 1 - STANDARD PLAN B -15.20.01. 5. SEE STORM SEWER CLEANOUT DETAIL ON C07.36 6. SEE TRENCH DRAIN DETAILS ON C07.46 7. SEE DRAINAGE DITCH DETAILS ON C07.47 8. SEE BIORETENTION FACILITY DETAILS ON C07.37 9. SEE MODULAR WETLAND SYSTEM DETAILS ON SHEETS C07.30 TO C07.35 10. INSTALL ELASTOMERIC CHECK VALVE 11. SEE SUBSURFACE LINER DETAIL ON SHEETS C07.48 AND C07.49 12. SEE SPECIAL PROVISIONS 13. USE BIRD CAGE FROM EXISTING OUTFALL STRUCTURE
C07.12-12	TF 107+93.01 (23.67 RT)																
C07.12-13	TF 108+43.47 (20.19 RT)																
C07.12-14	TF 108+93.65 (15.42 RT)																
C07.12-15	TF 109+62.97 (12.00 RT)																
C07.13-1	TF 111+82.32 (0.40' RT) TO TF 111+82.45 (10.06' RT)		8	13.92				58									
C07.13-2	TF 111+82.45 (10.06' RT) TO TF 114+29.01 (5.35' RT)		247	11.12				1704				1		1			
C07.13-3	TF 114+29.01 (5.35' RT) TO TF 116+44.05 (9.71' RT)		216	13.21				1069				1		3		1	
C07.13-4	TF 115+90.99 (10.56' RT) TO TF 114+54.99 (10.53' RT)		137	6.04				1911									
C07.13-5	TF 11+54.99 (10.53' RT) TO TF 113+13.08 (10.59' RT)		142	6.46				1882									
C07.13-6	TF 113+13.08 (10.59' RT) TO TF 111+88.44 (13.87' RT)		125	7.27				1573									
C07.13-7	TF 111+84.34 (65.73' LT) TO TF 111+83.44 (34.36' LT)		35	9.55				538									
C07.13-8	TF 111+83.44 (34.36' LT) TO TF 111+82.32 (0.40' LT)		32	14.79				342									
C07.13-9	TF 111+88.44 (13.87' RT) TO TF 111+83.57 (17.03' RT)		3	7.78				36									
C07.13-10	TF 111+83.57 (17.03' RT) TO TF 111+82.45 (10.06' RT)		3	27.48				36	1.3								
C07.13-11	TF 111+71.96 (13.52' RT) TO TF 111+83.57 (17.03' RT)		8	6.76				101									
C07.13-12	TF 111+84.34 (65.73' LT) TO TF 117+45.95 (64.73' LT)	1														5	
C07.13-13	TF 115+95.88 (5.61 RT)															1	
C07.13-14	E 17+76.87 (30.49 LT) TO E 17+78.16 (65.70 LT)																
C07.14-1	TF 117+45.95 (64.73' LT) TO TF 118+24.82 (28.90' LT)		87	3.72				1521									
C07.14-2	TF 118+24.82 (28.90' LT) TO TF 118+24.59 (10.53' RT)		40	9.36				700									
C07.14-3	TF 118+24.59 (10.53' RT) TO TF 116+44.05 (9.71' RT)		181	11.79				2979									
C07.14-4	TF 119+24.31 (10.57' RT) TO TF 118+24.59 (10.48' RT)		100	12.41				1371									
C07.14-5	TF 116+44.05 (9.71' RT) TO TF 116+44.03 (12.13' RT)		2	16.92												1	
C07.14-6	TF 118+90.20 (113.11' LT) TO TF 119+00.18 (55.29' LT)		59	3.25				1043									
C07.14-7	TF 119+00.18 (55.29' LT) TO TF 119+00.83 (22.51' LT)		40	4.37				698									
C07.14-8	TF 119+00.83 (22.51' LT) TO TF 119+27.73 (23.67' LT)		21	5.12				363									
C07.14-9	TF 119+23.22 (22.32' LT) TO TF 119+24.31 (10.57' RT)		30	18.99				421	0.83								
C07.14-10	TF 119+45.98 (55.02' LT) TO TF 119+00.18 (55.29' LT)		46	3.96				820								5	
C07.14-11	TF 116+44.03 (16.72' RT) TO TF 117+90.95 (15.22' RT)	2				1			6.44	443.8				83	1	5,9,12	
C07.14-12	TF 119+24.59 (10.53' RT) TO TF 119+20.84 (15.21' RT)	2							5.63	365				73		5,9,12	
C07.14-13	TF 118+28.79 (113.09' LT) TO TF 118+90.20 (113.11' LT)																
C07.14-14	TF 118+18.63 (152.88' LT)			4.03													
C07.14-15	TF 119+59.93 (153.09' LT)			4.03													
C07.14-16	TF 119+69.98 (152.01' LT) TO TF 120+82.38 (156.95' LT)					1										1	
C07.15-1	TF 122+55.90 (22.80' RT) TO TF 124+91.85 (14.76' RT)		232	2.57				3699									
C07.15-2	TF 124+91.85 (14.76' RT) TO TF 124+02.98 (17.46' RT)		85	14.92				1124	0.69								
C07.15-3	TF 124+02.98 (17.46' RT) TO TF 122+33.64 (16.71' RT)		170	8.92				2137				1					
C07.15-4	122+33.64 (16.71' RT) TO TF 120+76.71 (20.99' RT)		157	11.56				1846				1		1			
C07.15-5	TF 122+33.56 (93.10' LT) TO TF 122+33.64 (16.71' RT)		110	4.03				1675									
C07.15-6	TF 120+78.08 (86.35' LT) TO TF 124+17.86 (75.02' LT)								900.83					1802		9	
C07.15-8	TF 124+63.48 (143.79 LT) TO 124+83.04 (178.70 LT)																
C07.48	E13+46.63 (93.50' RT) TO E 19+95.56, 100.50' RT)					1										0	
C07.46	TF 105+29.48 (29.31 RT) TO TF 109+70.94 (17.94 RT)	7							76.01					294			
	SHEET TOTAL	12	2316	264.33		3		29647	991.73	808.8		4		5	2252	5	
	PROJECT TOTAL	19	4007	511.42		7	2	49391	1040.17		2972	8		6	2721	9	
SUBMITTAL DATE:		08/23/18				REGION NO.	STATE	FED. AID PROJ. NO.	<div></div> <div></div>				SR 525			C07. 54	
DESIGNED BY		R. NAIDU	12/22/17		10	WASH	MUKILTEO FERRY TERMINAL (PHASE 2)										
ENTERED BY		C. BENNETT	12/22/17		JOB NUMBER			FERRY TERMINAL CONSTRUCTION									
CHECKED BY		C. MIRKIN	12/22/17		18W121												
PROJ. ENGR.		C. TORRES			CONTRACT NO.												
REGION ADM.		A. SCARTON												STRUCTURE NOTES - DRAINAGE			
		DATE	DATE	REVISION		BY											

STRUCTURE NOTES - DRAINAGE

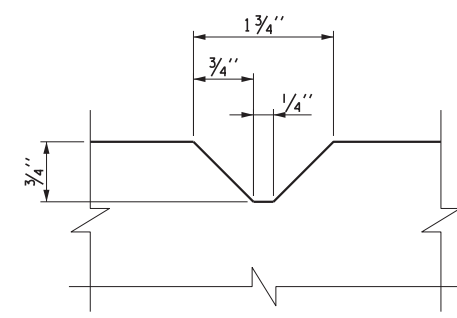
[illegible]



TYPICAL SECTION UNDER ROADWAY

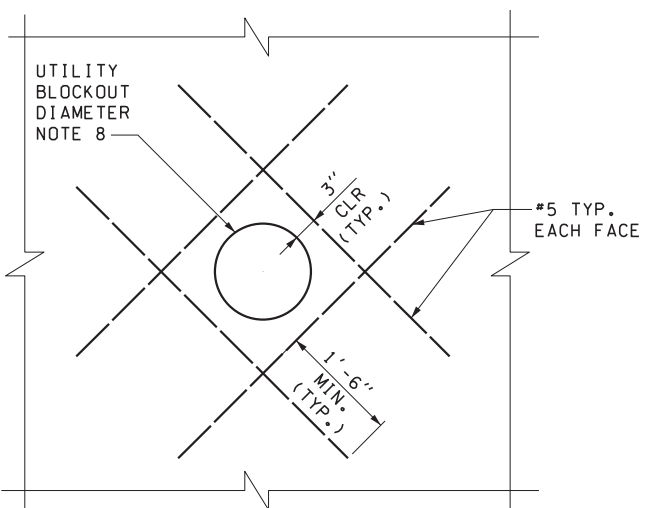


ELEVATION - JOINT SCHEME



CONTRACTION JOINT DETAIL

NOTE 8





UTILITY BLOCKOUT

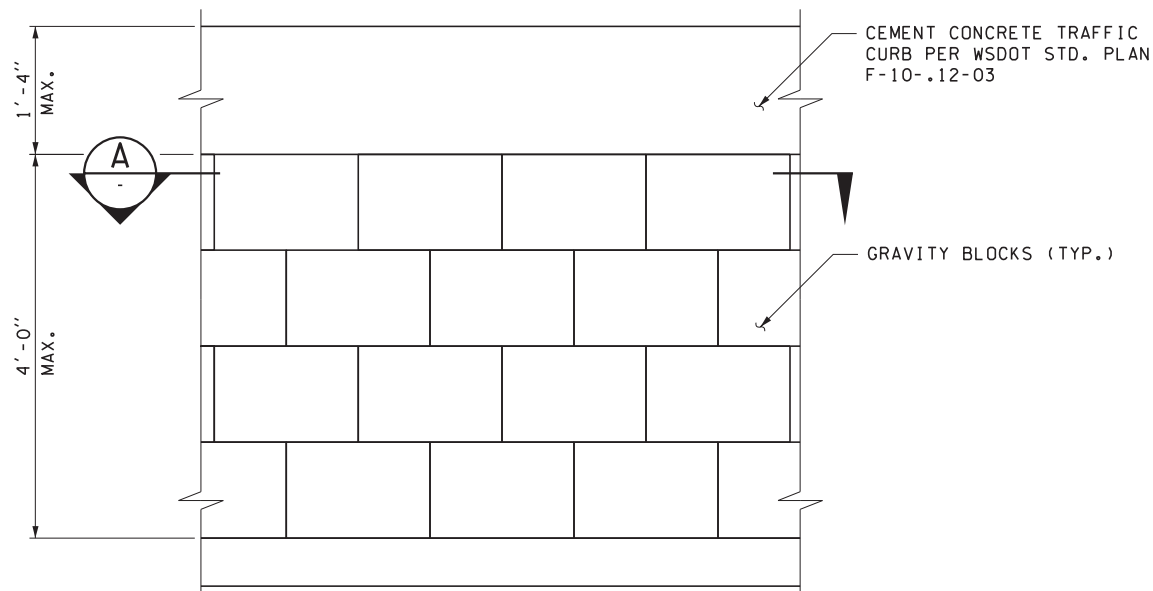
WHERE REQUIRED

NOTES:

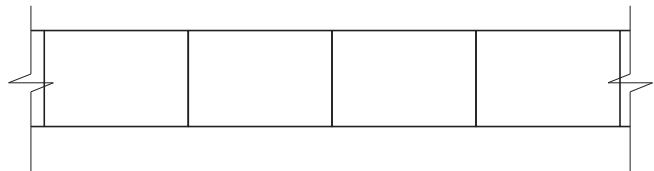
1. SEE DRAINAGE DETAIL SHEETS FOR BIORETENTION FACILITY PROFILES AND DETAILS NOT SHOWN.
2. ALL DIMENSIONS SHOWN ARE HORIZONTAL AND VERTICAL UNLESS OTHERWISE SHOWN.
3. CONTRACTION JOINTS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 30.0 FT. EXPANSION JOINTS SHALL BE PLACED AT THE MAXIMUM OF 45.0 FT. AND HALF OF THE OVERALL WALL LENGTH.
4. SEE TYPICAL ROADWAY SECTIONS SHEETS FOR ROADWAY/ FINISH GRADE DETAILS.
5. SEE DRAINAGE DETAIL SHEETS FOR SECTION DETAILS/ FINISH GRADE DETAILS.
6. ALL CORNERS SHALL RECEIVE 3/4" CHAMFER, TYP.
7. INSTALL CONTRACTION JOINT ON BIORETENTION SIDE OF STEM WALL, TOP OF STEM WALL AND TWO INCHES BELOW VISIBLE SURFACE OPPOSITE FACE OF STEM WALL.
8. MAXIMUM 6" DIAMETER BLOCKOUT. ALL BLOCKOUTS SHALL BE SEALED WITH APPROVED WATERTIGHT SEALANT.
9. THE CONCRETE IN BIORETENTION FACILITY RETAINING WALL SHALL BE CLASS 4000.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121c07_56.dlv										JACOBS										SR 525										C07.56																								
PRINTED: 10:47:09 AM 8/22/2018					LAST PRINTED BY:					FED.AID PROJ.NO.															 Washington State Department of Transportation WASHINGTON STATE FERRIES										MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION										SHEET									
SUBMITTAL DATE: 08/23/18					Daniel J.L					WA-2017-007-00																																			187									
DESIGNED BY: G. CALLAHAN					8/22/2018					REGION NO. STATE					10 WASH										OF																													
ENTERED BY: R. REISER					8/22/2018					JOB NUMBER					18W121										1521																													
CHECKED BY: S. CHEUNG					8/22/2018					CONTRACT NO.					00****										SHEETS																													
MAR PROJ ENGR: C. TORRES																																																						
DIR TERM ENGR: N. MCINTOSH																																																						
ASST SECRETARY: A. SCARTON										REVISION					DATE					BY																																		

- NOTES:
- 1. SEE DRAINAGE DETAIL SHEETS FOR CHECK DAM DETAILS.



TYPICAL GRAVITY BLOCK WALL
ELEVATION



A SECTION

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121c07_57.dwg											SR 525		C07.57	
PRINTED: 4:16:01 PM 12/14/2017	LAST PRINTED BY:					FED.AID PROJ.NO.			MUKILTEO FERRY TERMINAL (PHASE 2)		SHEET 188 OF 1521 SHEETS			
SUBMITTAL DATE: 12/22/17	CorradCS								FERRY TERMINAL CONSTRUCTION					
DESIGNED BY: K. BICHICH	12/14/2017					WA-2017-007-00			BIORETENTION FACILITY					
ENTERED BY: D. PERRY	12/14/2017					REGION NO. STATE			RETAINING WALL DETAILS					
CHECKED BY: G. CALLAHAN	12/14/2017					10 WASH								
MAR PROJ ENGR: C. TORRES						JOB NUMBER 18W121								
DIR TERM ENGR: N. MCINTOSH						CONTRACT NO. 00****								
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY										

MWWD WATER SYSTEM INSTALLATION NOTES

1. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH THE MUKILTEO WATER AND WASTEWATER DISTRICT. THE CONTRACTOR AND PROPOSED ON-SITE SUPERVISORS SHALL ATTEND.
2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION, INCLUDING ADDENDA AND UPDATES, OF THE MUKILTEO WATER AND WASTEWATER DISTRICT DEVELOPER STANDARDS. CONTRACTOR TO HAVE MUKILTEO WATER AND WASTEWATER DISTRICT STANDARDS ON JOB SITE.
3. NO DISTRICT INSPECTIONS WILL TAKE PLACE AND THE JOB WILL BE SHUT DOWN UNLESS AN APPROVED AND DISTRICT SIGNED COPY OF THESE PLANS ARE ON THE JOB SITE AT ALL TIMES CONSTRUCTION IS IN PROGRESS.
4. ALL WATER SYSTEM IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE APPROVED PLANS. ANY DEVIATION FROM THE PLANS WILL REQUIRE APPROVAL FROM THE OWNER, ENGINEER, DISTRICT AND APPROPRIATE PUBLIC AGENCIES.
5. NOTIFY THE DISTRICT 72 HOURS (3 WORKING DAYS) PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.
6. THE DISTRICT SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO THE TIME THE CONTRACTOR WOULD LIKE TO CONNECT TO EXISTING MAINS OR FOR INSTALLATION OF TAPPING TEES. THE CONNECTION SHALL BE DONE IN ACCORDANCE WITH DISTRICT REQUIREMENTS. CONNECTIONS TO TAKE PLACE TUESDAYS THROUGH THURSDAYS ONLY. CONTRACTOR SHALL NOT OPERATE ANY DISTRICT VALVES; THESE WILL BE OPERATED BY WATER DISTRICT PERSONNEL ONLY.
7. FOR AID IN UTILITY LOCATION, CALL 1-800-424-5555, A MINIMUM OF 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING OF CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION, SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.
8. WATER LINE CONSTRUCTION WITHIN THE PROPOSED DEVELOPMENT SHALL NOT COMMENCE UNTIL THE STREET HAS BEEN BROUGHT TO SUB-GRADE, MEETING MUKILTEO WATER DISTRICT APPROVAL.
9. WATER MAIN SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION, WITH 25-FOOT STAKES ON CURVES. LOT CORNER STAKES SHALL ALSO BE IN PLACE PRIOR TO CONSTRUCTION.
10. PIPE SHALL BE DUCTILE IRON, AWWA CLASS 52 THICKNESS, WITH RUBBER GASKETS, PUSH-ON TYPE, OR MECHANICAL JOINT, MEETING AWWA SPECIFICATIONS. FITTINGS SHALL BE AWWA, CEMENT LINED, DUCTILE IRON, AND EITHER MECHANICAL JOINT OR FLANGED, AS INDICATED HEREIN. ALL PIPE TO BE PURCHASED AND INSTALLED AS A PART OF THE DEVELOPER'S WATER SYSTEM SHALL BE DELIVERED TO THE JOB SITE WITH WATER TIGHT WRAPPING OR PIPE PLUGS. PLUGS AND/OR WRAPPING SHALL REMAIN IN PLACE UNTIL THE PIPE IS INSTALLED IN THE TRENCH.
11. UNLESS OTHERWISE SPECIFIED VALVES 12 INCH AND SMALLER SHALL BE DUCTILE IRON RESILIENT SEATED GATE VALVES; ACCEPTABLE VALVES ARE MUELLER, CLOW, M&H, U.S. PIPE AND AMERICAN FLOW CONTROL, SERIES 2500. VALVES LARGER THAN 12 INCHES SHALL BE DUCTILE IRON BUTTERFLY VALVES; ACCEPTABLE VALVES ARE PRATT GROUNDHOG AND DRESSER 450.
12. ALL BOLTS ON WATER WORKS FITTINGS SHALL BE COATED WITH ARMITE ANTI-SEIZE COMPOUND NO. 609, OR EQUAL, PRIOR TO INSTALLATION. ALL WATER WORKS FITTINGS AND BOLTED ASSEMBLIES SHALL BE COMPLETELY COVERED WITH VISQUEEN PLASTIC, 4 MIL. THE END OF THE PLASTIC SHALL BE TAPED TO SECURE THEM TO THE PIPE.
13. HYDRANTS SHALL BE MUELLER CENTURION A423, CLOW MEDALLION, OR DRESSER RELIANT 929 MEETING AWWA SPECIFICATIONS. HYDRANTS SHALL BE FURNISHED WITH THREADED OUTLETS, MEETING FIRE DISTRICT/DEPARTMENT STANDARDS. BOTH THRUST BLOCKING AND MEGA LUGS RESTRAINTS ARE REQUIRED ON EACH HYDRANT INSTALLATION. HYDRANTS WITHIN THE CITY OF MUKILTEO FIRE SERVICE AREA AND FIRE DISTRICT #1 SHALL BE EQUIPPED WITH 4-INCH STORZ ADAPTERS; ALL OTHER HYDRANTS SHALL UTILIZE A 5-INCH STORZ ADAPTER. ALL HYDRANTS SHALL HAVE A 4-1/2 -INCH NST THREADS ON PUMPER PORT.
14. PROVIDE THRUST BLOCKING AND/OR RESTRAINED JOINTS AT ALL FITTINGS AND BENDS AND UP-THRUST FITTINGS, IN ACCORDANCE WITH DISTRICT STANDARDS, CONDITIONS AND SPECIFICATIONS.
15. ALL NEW CONNECTIONS TO THE EXISTING WATER SYSTEM SHALL BE IN STRICT CONFORMANCE WITH THE APPROPRIATE SUBSECTIONS OF THE SPECIFICATIONS OF THE DISTRICT. NO CONNECTION SHALL BE MADE BETWEEN THE NEW MAIN AND THE EXISTING MAINS UNTIL THE NEW PIPING HAS BEEN FLUSHED, DISINFECTED, TESTED AND RECEIVED SATISFACTORY BACTERIOLOGICAL TEST RESULTS.
16. INDIVIDUAL WATER SERVICES TO THE PROPERTY LINE SHALL BE 1" DIAMETER MINIMUM SIZE AND BE INSTALLED WITH 36-INCH MINIMUM COVER.
17. RESIDENTIAL FIRE SPRINKLER SYSTEMS SHALL HAVE A MINIMUM 1-INCH METER/SERVICE. BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED ON ALL RESIDENTIAL FIRE SPRINKLER SYSTEMS AND LOCATED IMMEDIATELY BEHIND THE WATER METER/SERVICE ON THE PROPERTY SIDE.
18. FIRE LINE SERVICES SHALL HAVE A DOUBLE CHECK DETECTOR BACKFLOW PREVENTION ASSEMBLY INSTALLED IN A UTILITY VAULT AT THE ROW/PROPERTY LINE WITH A 6-INCH PVC GRAVITY DRAIN TO STORM. FIRE LINE SERVICE SHALL TERMINATE, IN THE STRUCTURE TO BE SERVED, WITH THE DISTRICT'S RISER DETAIL.

19. ALL COMMERCIAL, MULTI-FAMILY, INDUSTRIAL AND IRRIGATION SERVICES SHALL INCLUDE A DOH APPROVED BACKFLOW PREVENTION ASSEMBLY LOCATED IMMEDIATELY BEHIND AND ON THE PROPERTY SIDE OF THE WATER METER. ALTERNATE LOCATIONS MAY BE ACCEPTABLE UPON APPROVAL BY THE DISTRICT. STRUCTURES REQUIRING FIRE SPRINKLER SYSTEM SHALL HAVE AT LEAST ONE BACKFLOW PREVENTION ASSEMBLY PER EACH STRUCTURE, PROTECTING THE POTABLE WATER SYSTEM FROM THE FIRE SYSTEM. THE BACKFLOW PREVENTION ASSEMBLY SHALL BE LOCATED IN A FLOOD PROOF VAULT OR SERVICE BOX, DEPENDING ON SIZE, OUTSIDE THE STRUCTURE IN A LOCATION APPROVED BY THE DISTRICT.
20. WHERE ROAD GRADES ARE ESTABLISHED, PROVIDE A MINIMUM OF 48-INCH COVER OVER 12 INCH OR LARGER WATER MAINS, AND PROVIDE A MINIMUM OF 42-INCH COVER OVER 8 INCH MAINS; OR ADDITIONAL DEPTH AS REQUIRED TO MISS OTHER UTILITIES.
21. WATER MAINS CONSTRUCTED WITHIN EASEMENTS OR PRIVATE ROADS SHALL BE INSTALLED WITH POLYETHYLENE ENCASEMENT, RESTRAINED JOINTS AND WITH A 5'-0" MINIMUM COVER. DURING BACKFILL OPERATIONS, FURNISH AND INSTALL 3-INCH-WIDE METALLIC MARKER TAPE WITH 3 FEET OF COVER OVER WATER MAIN.
22. MINIMUM RADIUS FOR 12 INCH AND SMALLER PIPELINES CONSTRUCTED ON CURVES (4 DEGREE DEFLECTION PER JOINT) IS 258 FEET.
23. COMPACTION: ALL TRENCH BACKFILL AND ROADWAY EMBANKMENT SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DRY MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557 EXCEPT THE TOP 6 INCHES IN PAVED AREAS, WHICH SHALL BE 100%.
24. CONSTRUCTION INSPECTION WILL BE DONE BY MUKILTEO WATER AND WASTEWATER DISTRICT AND/OR THEIR DESIGNATED ENGINEER. NO UTILITY FACILITIES WILL BE ACCEPTED BY THE DISTRICT IF PROPER INSPECTIONS HAVE NOT BEEN COMPLETED.
25. THE WATER MAIN CONSTRUCTION PHASE WILL NOT BE CONSIDERED COMPLETE UNTIL THE INSTALLATION IS ACCEPTABLE TO THE DISTRICT INCLUDING A SATISFACTORY HYDROSTATIC PRESSURE TEST, A SATISFACTORY DISINFECTION TEST, SATISFACTORY FLOW OF SERVICE LINES, AND COMPLETION OF ALL ITEMS ON THE INSPECTOR'S PUNCH LIST.
26. WATER SERVICE IS AVAILABLE ONLY AFTER TRANSFER OF OWNERSHIP TO THE DISTRICT AND AFTER PAYMENT OF ALL CURRENT APPLICABLE FEES.

ADDITIONAL WATER SYSTEM INSTALLATION NOTES



1. IN THE EVENT OF A DISCREPANCY BETWEEN THESE PLANS AND THE SPECIFICATIONS, THE MORE STRINGENT CONDITION SHALL APPLY, UNLESS OTHERWISE ALLOWED BY THE ENGINEER.
2. DURING BACKFILL OPERATIONS, FURNISH AND INSTALL 3-INCH-WIDE DETECTABLE METALLIC BLUE MARKER TAPE WITH A MINIMUM OF 2 FEET OF COVER OVER THE WATER MAIN, FIRE WATER LINES, AND SERVICES.
3. UNLESS SHOWN OTHERWISE ON PLAN SHEETS, EASEMENTS SHALL BE 15 FEET WIDE AND CENTERED ON PIPE CENTERLINE.
4. CONSTRUCTION WATER MAY BE OBTAINED FROM THE DISTRICT IF NECESSARY. CONTRACTOR SHALL OBTAIN A WATER METER-BACKFLOW PREVENTION ASSEMBLY FROM THE DISTRICT FOR USE IN OBTAINING WATER FROM DISTRICT HYDRANTS. COORDINATE WITH MWWF FOR LOCATION AND APPLICABLE CHARGES.
5. CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS, BEYOND THOSE PROVIDED BY OWNER, NECESSARY TO COMPLETE THE WORK.
6. THE HORIZONTAL AND VERTICAL LOCATION OF EXITING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. DISCREPANCIES BETWEEN THESE DOCUMENTS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ENGINEER FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK.
7. AT ALL TIMES THE CONTRACTOR SHALL HAVE ON HAND A MINIMUM OF ONE SIGNED AND SEALED COPY OF THE ISSUED FOR CONSTRUCTION PLANS AND SPECIFICATIONS, INCLUDING ALL ADDENDA ISSUED DURING THE BIDDING PROCESS, AT THE JOB SITE.
8. THE CONTRACTOR SHALL PROVIDE A PLAN FOR TRAFFIC CONTROL THROUGHOUT THE ENTIRE DURATION OF CONSTRUCTION, WHICH INCLUDES THE CONTRACTOR'S MOBILIZATION, TO THE DISTRICT WITH THE PERMIT APPLICATION. CONTRACTOR SHALL NOT MOBILIZE TO THE SITE PRIOR TO THE DISTRICT'S APPROVAL OF THIS PLAN AND ISSUANCE OF THE ASSOCIATED PERMIT.
9. CONTRACTOR SHALL CONTACT ALL UTILITY AGENCIES PRIOR TO COMMENCING CONSTRUCTION FOR PURPOSES OF LOCATING EXISTING UTILITIES WITHIN THE PROJECT SITE. CONTRACTOR SHALL COORDINATE AND PROVIDE FOR THE PROTECTION OF CONFLICTING UTILITIES.
10. CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY TO WITHIN RIGHTS OF WAY, EASEMENTS, AND TO WITHIN AREAS COORDINATED WITH AND ACCEPTABLE TO THE OWNER OF THE FERRY TERMINAL SITE.
11. MINIMUM COVER LISTED IN NOTES 20 AND 21 IN PREVIOUS SECTION SHALL BE PROVIDED WHERE POSSIBLE, BUT IS REDUCED IN SEVERAL LOCATIONS WITHIN THESE DRAWINGS DUE TO SENSITIVE LAYER AND UTILITY CROSSINGS.

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater

Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review and revision, due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c08_01.dlv						 Washington State Department of Transportation WASHINGTON STATE FERRIES	SR 525		C08.01
PRINTED: 4:27:02 PM 2/22/2018	LAST PRINTED BY:						FED.AID PROJ.NO.	SHEET	
SUBMITTAL DATE: 12/22/17	conradcs						WA-2017-007-00	190	
DESIGNED BY: E. BRODAHL	2/22/2018						REGION NO./STATE	OF	
ENTERED BY: R. REISER	2/22/2018						10 WASH	1521	
CHECKED BY: P. SACK	2/22/2018						JOB NUMBER	SHEETS	
MAR PROJ ENGR: C. TORRES							18W121		
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.				
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	00****				

MWWD SEWER SYSTEM INSTALLATION NOTES

1. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH THE MUKILTEO WATER AND WASTEWATER DISTRICT. THE CONTRACTOR AND PROPOSED ON-SITE SUPERVISOR SHALL ATTEND.
2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION, INCLUDING ADDENDA AND UPDATES, OF THE MUKILTEO WATER AND WASTEWATER DISTRICT DEVELOPER STANDARDS. CONTRACTOR TO HAVE MUKILTEO WATER AND WASTEWATER DISTRICT STANDARDS ON JOB SITE AT ALL TIMES WHILE CONSTRUCTION IS IN PROGRESS.
3. A DISTRICT APPROVED SIGNED COPY OF THE PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE DISTRICT, THE PROJECT SPECIFICATIONS, AND THE MOST RECENT EDITION OF THE APWA STANDARDS AND SPECIFICATIONS.
5. WORK SHALL NOT COMMENCE UNTIL APPROVAL IS RECEIVED FROM THE STATE DEPARTMENT OF ECOLOGY, UNLESS THE REVIEW AND APPROVAL IS WAIVED BY ECOLOGY.
6. FRONT PROPERTY CORNERS SHALL BE SET BY A LAND SURVEYOR LICENSED IN THE STATE OF WASHINGTON PRIOR TO THE START OF CONSTRUCTION.
7. NOTIFY THE DISTRICT 72 HOURS (3 WORKING DAYS) PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.
8. FOR AID IN UTILITY LOCATION, CALL 1-800-424-555, A MINIMUM OF 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING OF CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION, SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.
9. PIPE LENGTHS, MANHOLE DEPTHS, ETC., AS SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING PROPER QUANTITIES OF MATERIALS.
10. PROVIDE THE DISTRICT’S INSPECTOR WITH A COPY OF ALL CUT SHEETS PRIOR TO CONSTRUCTION.
11. PERMANENT ACCESS FOR DISTRICT SERVICE VEHICLES SHALL BE PROVIDED AT ALL MANHOLES. MANHOLES SHALL BE CONSTRUCTED AS PER DISTRICT STANDARD DETAILS, INCLUDING CONSTRUCTION OF CHANNELS. WHERE INDICATED, PROVIDE KNOCK-OUTS AND CHANNELIZATION FOR SIDE SEWER OR FUTURE MAINLINE EXTENSIONS; AND FOR PVC PIPE, PROVIDE A WATERTIGHT FLEXIBLE RUBBER BOOT OR HEAVY DUTY SAND COLLAR. PROVIDE LOCKING LIDS FOR MANHOLE COVERS.
12. CONNECTION TO EXISTING MAIN SHALL BE DONE SO AS TO PREVENT ANY FOREIGN MATERIALS FROM ENTERING EXISTING SEWERS. EXISTING PIPE IN SADDLE MANHOLE INSTALLATIONS SHALL NOT BE CUT OR REMOVED UNTIL INSTRUCTED TO DO SO BY THE DISTRICT.
13. CONNECTION TO EXISTING MANHOLES SHALL BE MADE BY UTILIZATION OF A CONCRETE CORE-DRILLING MACHINE OF ADEQUATE DIAMETER TO GROUT IN PLACE AN ADAPTER IF PVC SEWER LINES ARE INSTALLED. ALIGN CORE-DRILLING MACHINE TO PROVIDE MINIMUM OF 0.10-FOOT DROP ACROSS THE MANHOLE.
14. PVC PIPE SHALL BE SDR-35 ASTM D3034 FURNISHED IN 13-FOOT MAXIMUM LENGTHS AND SHALL BE FULLY ENCASED IN PEA GRAVEL EXTENDING FROM 4 INCHES BELOW TO 12 INCHES ABOVE PIPE BARREL.
15. DI SANITARY SEWER PIPE SHALL CONFORM TO AWWA C151 AND SHALL BE POLYETHYLENE OR EPOXY LINED, RESTRAINED JOINT. THE DI PIPE SHALL BE CLASS 52, UNLESS OTHERWISE APPROVED.
16. SEWERS TO BE LOCATED BELOW POTABLE WATER LINES, WITH 18-INCHES VERTICAL SEPARATION AND WITH A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION FROM PARALLEL WATER LINES. CROSSING ANGLES SHALL BE 45 DEG. OR GREATER. UNUSUAL OR SPECIAL CONDITIONS ARE ADDRESSED IN ACCORDANCE WITH THE DEPARTMENT ECOLOGY AND DEPARTMENT OF HEALTH CRITERIA.
17. SIDE SEWER SHALL BE A MINIMUM OF 6 INCHES IN DIAMETER AND SHALL HAVE A MINIMUM SLOPE OF 2%. SIDE SEWER SHALL INCLUDE TWO 6-INCH TEES AT THE PROPERTY LINE; ONE WITHIN THE PUBLIC RIGHT-OF-WAY AND ONE WITHIN THE PRIVATE PROPERTY. SEE DETAIL.
18. ALL SEWER LINES SHALL BE CLEANED AND TESTED IN ACCORDANCE WITH DISTRICT STANDARDS AND SPECIFICATIONS.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND/OR REPAIRING ASPHALT AND GRAVEL SURFACE DISTURBED AS A RESULT OF THIS CONSTRUCTION UNTIL THEY ARE ACCEPTED BY THE PUBLIC WORKS DEPARTMENT OF THE CITY AND/OR COUNTY.
20. COMPACTION: ALL TRENCH BACKFILL AND ROADWAY EMBANKMENT SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DRY MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557, EXCEPT THE TOP 6” IN PAVED AREAS, WHICH SHALL BE 100%.
21. MANHOLE COVERS LOCATED IN ASPHALT AREAS SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO PAVING.
22. NO UTILITY FACILITIES WILL BE ACCEPTED BY THE DISTRICT IF PROPER INSPECTIONS HAVE NOT BEEN COMPLETED.
23. SEWER SERVICE IS AVAILABLE ONLY AFTER TRANSFER OF OWNERSHIP TO THE DISTRICT AND AFTER PAYMENT OF ALL CURRENT APPLICABLE FEES.

ADDITIONAL SEWER SYSTEM INSTALLATION NOTES

1. IN THE EVENT OF A DISCREPANCY BETWEEN THESE PLANS AND THE SPECIFICATIONS, THE MORE STRINGENT CONDITION SHALL APPLY, UNLESS OTHERWISE ALLOWED BY THE ENGINEER.
2. DURING BACKFILL OPERATIONS FOR GRAVITY SEWER MAINS, SERVICES, AND FORCE MAINS, FURNISH AND INSTALL 3-INCH-WIDE DETECTABLE METALLIC GREEN MARKER TAPE WITH A MINIMUM OF 2 FEET OF COVER OVER THE PIPING.
3. UNLESS SHOWN OTHERWISE ON PLAN SHEETS, EASEMENTS SHALL BE 15 FEET WIDE AND CENTERED ON PIPE CENTERLINE.
4. CONSTRUCTION WATER MAY BE OBTAINED FROM THE DISTRICT IF NECESSARY. CONTRACTOR SHALL OBTAIN A WATER METER-BACKFLOW PREVENTION ASSEMBLY FROM THE DISTRICT FOR USE IN OBTAINING WATER FROM DISTRICT HYDRANTS. COORDINATE WITH MWWD FOR LOCATION AND APPLICABLE CHARGES.
5. CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS, BEYOND THOSE PROVIDED BY OWNER, NECESSARY TO COMPLETE THE WORK.
6. THE HORIZONTAL AND VERTICAL LOCATION OF EXITING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. DISCREPANCIES BETWEEN THESE DOCUMENTS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ENGINEER FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK.
7. AT ALL TIMES THE CONTRACTOR SHALL HAVE ON HAND A MINIMUM OF ONE SIGNED AND SEALED COPY OF THE ISSUED FOR CONSTRUCTION PLANS AND SPECIFICATIONS, INCLUDING ALL ADDENDA ISSUED DURING THE BIDDING PROCESS, AT THE JOB SITE.
8. THE CONTRACTOR SHALL PROVIDE A PLAN FOR TRAFFIC CONTROL THROUGHOUT THE ENTIRE DURATION OF CONSTRUCTION, WHICH INCLUDES THE CONTRACTOR’S MOBILIZATION, TO THE DISTRICT WITH THE PERMIT APPLICATION. CONTRACTOR SHALL NOT MOBILIZE TO THE SITE PRIOR TO THE DISTRICT’S APPROVAL OF THIS PLAN AND ISSUANCE OF THE ASSOCIATED PERMIT.
9. CONTRACTOR SHALL CONTACT ALL UTILITY AGENCIES PRIOR TO COMMENCING CONSTRUCTION FOR PURPOSES OF LOCATING EXISTING UTILITIES WITHIN THE PROJECT SITE. CONTRACTOR SHALL COORDINATE AND PROVIDE FOR THE PROTECTION OF CONFLICTING UTILITIES.
10. CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY TO WITHIN RIGHTS OF WAY, EASEMENTS, AND TO WITHIN AREAS COORDINATED WITH AND ACCEPTABLE TO THE OWNER OF THE FERRY TERMINAL SITE.
11. MINIMUM SLOPE LISTED IN NOTE 17 IN PREVIOUS SECTION SHALL BE PROVIDED WHERE POSSIBLE, BUT IS REDUCED WITHIN THESE DRAWINGS WHERE NEEDED DUE TO SENSITIVE LAYER.

APPROVAL BLOCK

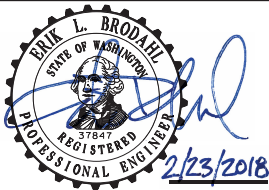
Approved by _____ Date _____
Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review and revision, due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.

JACOBS



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FILE NAME: WS\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121c08_02.dwg					
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SUBMITTAL DATE: 12/22/17	conrados				WA-2017-007-00
DESIGNED BY: E. BRODAHL	2/22/2018				REGION NO. STATE
ENTERED BY: R. REISER	2/22/2018				10 WASH
CHECKED BY: P. SACK	2/22/2018				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	00*****

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

SEWER GENERAL NOTES

C08.02

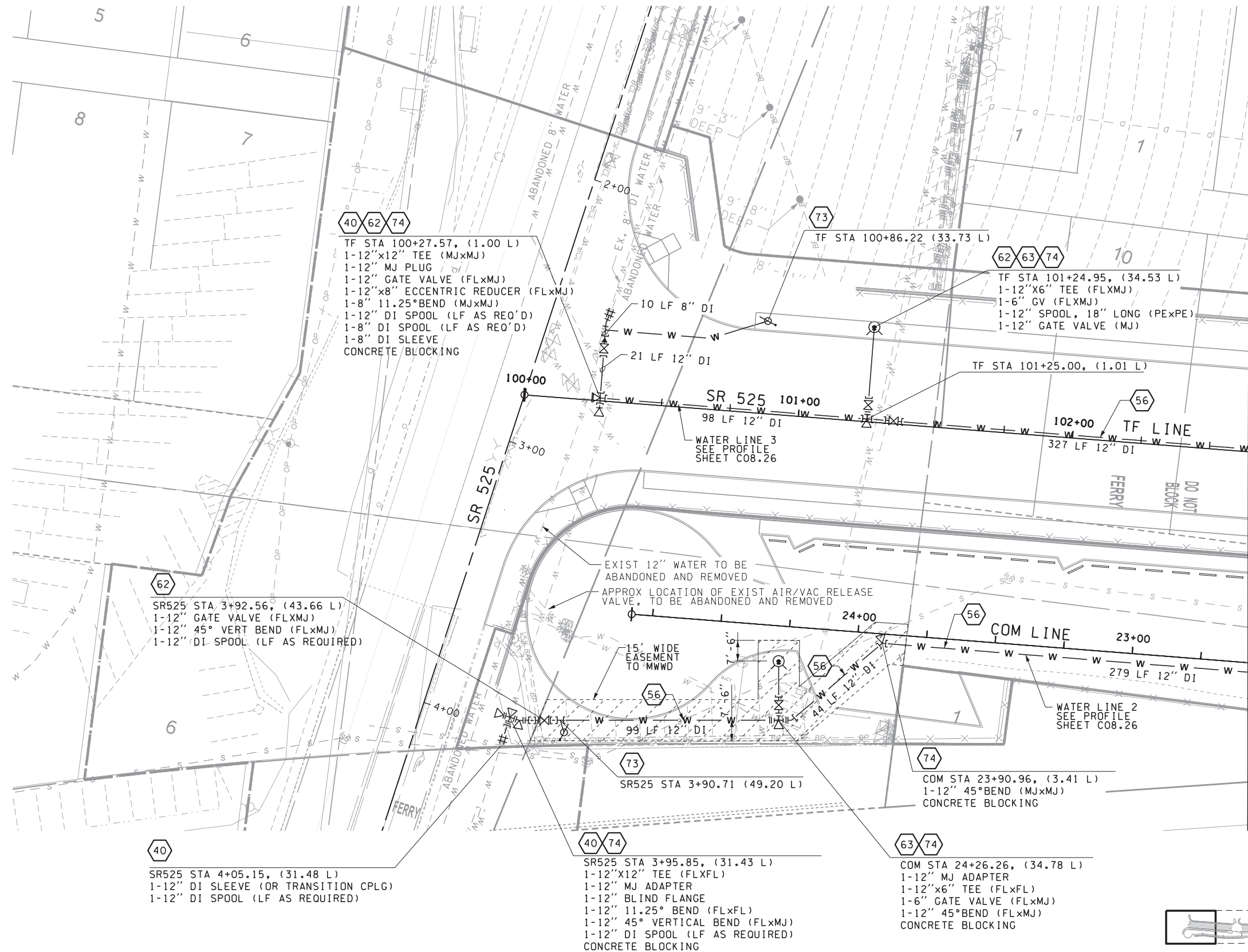
SHEET

191

OF

1521

SHEETS



NOTES:

- SEE SITE ELECTRICAL DRAWINGS FOR EXISTING OVERHEAD POWER AND TELECOMMUNICATIONS.
- ALL 8" AND 12" DI PIPE JOINTS SHALL BE RESTRAINED WITH FIELD-LOK GASKETS, OR ACCEPTED EQUAL.
- ALL MJ FITTINGS SHALL BE RESTRAINED WITH MEGA-LUGS, ROMAGRIP OR ACCEPTED EQUAL.
- ALL PIPE AND FITTINGS FOR WATER MAIN AND FIRE SYSTEMS SHALL BE CL52 DI, EXCEPT FOR FLANGED SPOOLS, WHICH SHALL BE CLASS 53.

CONSTRUCTION NOTES:

- POTHOLE TO CONFIRM EXIST SIZE, LOCATION, AND MATERIAL. SCHEDULE SHUTDOWN WITH MWW. CUT INTO EXISTING D.I. AND CONNECT
- CONST 12" WATER MAIN PER MWW STD DETAIL W-D1
- CONST GATE VALVE
- CONST FH PER MWW STD DETAIL W-D3
- CONST 2" AIR & VACUUM RELEASE VALVE ASSEMBLY AT HIGH POINT PER MWW STD DETAIL W-D7
- CONST THRUST BLOCK PER MWW STD DETAIL W-D15

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater _____
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

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KEY PLAN

0 20 40
SCALE 1" = 40'

JACOBS



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
WATER & SANITARY SEWER
PLAN

C08.10

SHEET
192
OF
1521
SHEETS

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MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY: Doniel J.L.

8/22/2018

8/22/2018

8/22/2018

REVISION

DATE

BY

FED.AID
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

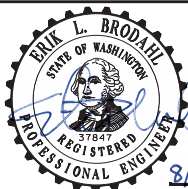
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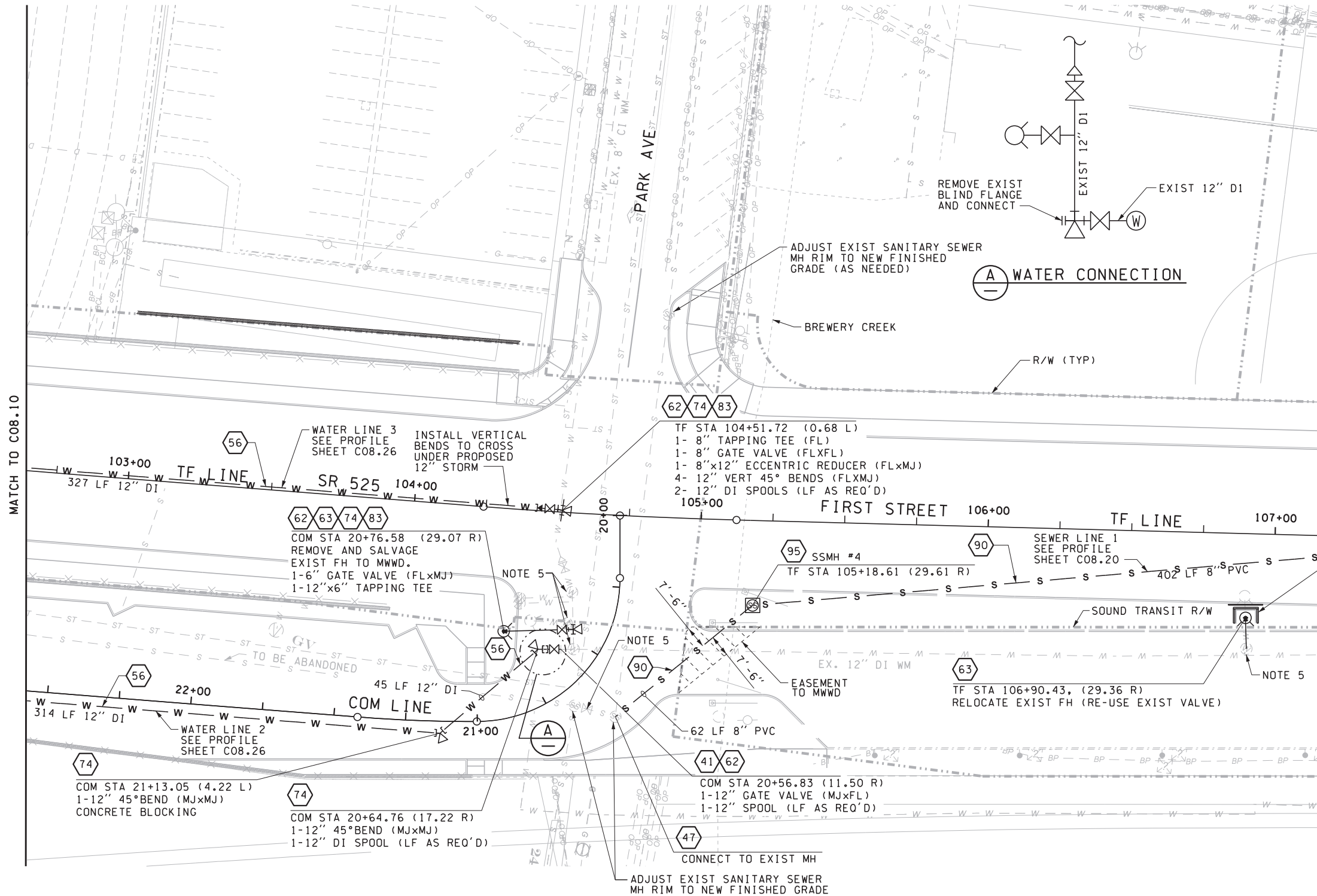
JOB NUMBER

18W121

CONTRACT NO.

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NOTES:

1. SEE SITE ELECTRICAL DRAWINGS FOR EXISTING OVERHEAD POWER AND TELECOMMUNICATIONS.
2. ALL 8" AND 12" DI PIPE JOINTS SHALL BE RESTRAINED WITH FIELD-LOK GASKETS, OR ACCEPTED EQUAL.
3. ALL MJ FITTINGS SHALL BE RESTRAINED WITH MEGA-LUGS, ROMAGRIP OR ACCEPTED EQUAL.
4. ALL PIPE AND FITTINGS FOR WATER MAIN AND FIRE SYSTEMS SHALL BE CL52 DI, EXCEPT FOR FLANGED SPOOLS, WHICH SHALL BE CLASS 53.
5. ADJUST EXIST WATER (OR SEWER) VALVE BOXES TO NEW FINISHED GRADE.

CONSTRUCTION NOTES:

- 41 REMOVE EXIST BLOCKING AND BLIND FLANGE, CONNECT TO EXIST WATER WITH 12" GATE VALVE (FLxMJ)
- 47 CORE DRILL EXIST MH AND CONNECT WITH KOR-N-SEAL BOOT. RECHANNEL MH PER MWWD STANDARDS
- 56 CONST 12" WATER MAIN PER MWWD STD DETAIL W-D1
- 62 CONST GATE VALVE
- 63 CONST FH PER MWWD STD DETAIL W-D3
- 74 CONST THRUST BLOCK PER MWWD STD DETAIL W-D15
- 83 WET TAP EXIST MAIN PER MWWD STD DETAIL W-D8, VERIFY EXISTING MAIN SIZE AND MATERIAL
- 90 CONST 8" PVC SS MAIN PER MWWD STD DETAIL S-D1
- 95 CONST STD MH PER MWWD STD DETAIL S-D2

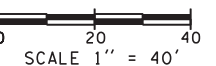
INSTALL PINNED KEYSTONE WALL WITH COMPAC II UNITS AND 3 PLANE SPLIT CAPS (OR EQUAL) TO PROVIDE 3' CLEARANCE ON ALL SIDES OF F.H. SLOPE GROUND UP TO NORTH AT 12:1 WITHIN CLEAR AREA. PROVIDE 28" MAX EXPOSED BLOCK. PROVIDE TRANSITION WING WALLS WITH TOPS OF KEYSTONE COVERED WITH SOIL. PROVIDE LEVELING PAD, CRUSHED ROCK BACKFILL BEHIND WALL AND DRAIN PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE 12' LONG AND 4' TALL TYPE 4 CHAIN LINK FENCE PER WSDOT STANDARD PLAN L-20.10-03, AT BACK OF CURB, CENTERED ON F.H.

APPROVAL BLOCK	
Approved by _____	_____ Date _____
Mukilteo Water and Wastewater	
Mukilteo Water and Wastewater District Extension No. _____	
Gray & Osborne No. _____	

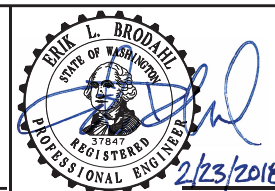
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KEY PLAN



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DESIGNED BY: E. BRODAHL	2/22/2018			REGION NO. STATE
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MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00****
	REVISION	DATE	BY	



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
WATER & SANITARY SEWER
PLAN

C08.11
SHEET
193
OF
1521
SHEETS

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4. ALL PIPE AND FITTINGS FOR WATER MAIN AND FIRE SYSTEMS SHALL BE CL52 DI, EXCEPT FOR FLANGED SPOOLS, WHICH SHALL BE CLASS 53.
5. SEE BUILDING MECHANICAL FOR BACKFLOW PROTECTION.
6. ADJUST EXIST WATER VALVE BOX TO NEW FINISHED GRADE.

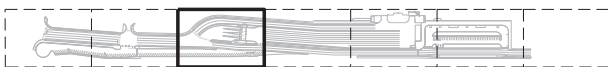
CONSTRUCTION NOTES:

- 40 CONNECT TO EXIST DI WATER. POTHOLE TO CONFIRM EXIST SIZE, LOCATION, MATERIAL.
- 54 CONST 8" WATER MAIN PER MWWD STD DETAIL W-D1
- 55 CONST 8" WATER MAIN IN CONC TRENCH
- 56 CONST 12" WATER MAIN PER MWWD STD DETAIL W-D1
- 57 CONST 12" WATER MAIN IN CONC TRENCH
- 62 CONST GATE VALVE
- 63 CONST FH PER MWWD STD DETAIL W-D3
- 64 CONST 1" WATER SERVICE PER MWWD STD DETAIL W-D10, WITH DCVA PER W-D17. FIELD ROUTE SERVICE TO RESTROOM.
- 65 CONST 1.5" IRRIG WATER SVC PER MWWD STD DETAIL W-D11, W/ DCVA PER W-D17
- 70 CONST 2" BLOW OFF ASSEMBLY PER MWWD STD DETAIL W-D9
- 74 CONST THRUST BLOCK PER MWWD STD DETAIL W-D15
- 90 CONST 8" PVC SS MAIN PER MWWD STD DETAIL S-D1
- 92 CONST 6" PVC SIDE SEWER PER MWWD STD PLAN S-D8. FIELD ROUTE SERVICE TO RESTROOM.
- 94 CONST CLEAN OUT PER MWWD STD PLAN S-D10
- 95 CONST STD MH PER MWWD STD DETAIL S-D2

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater _____
Mukilteo Water and Wastewater District Extension No. _____
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KEY PLAN

SCALE 1" = 40'

JACOBS

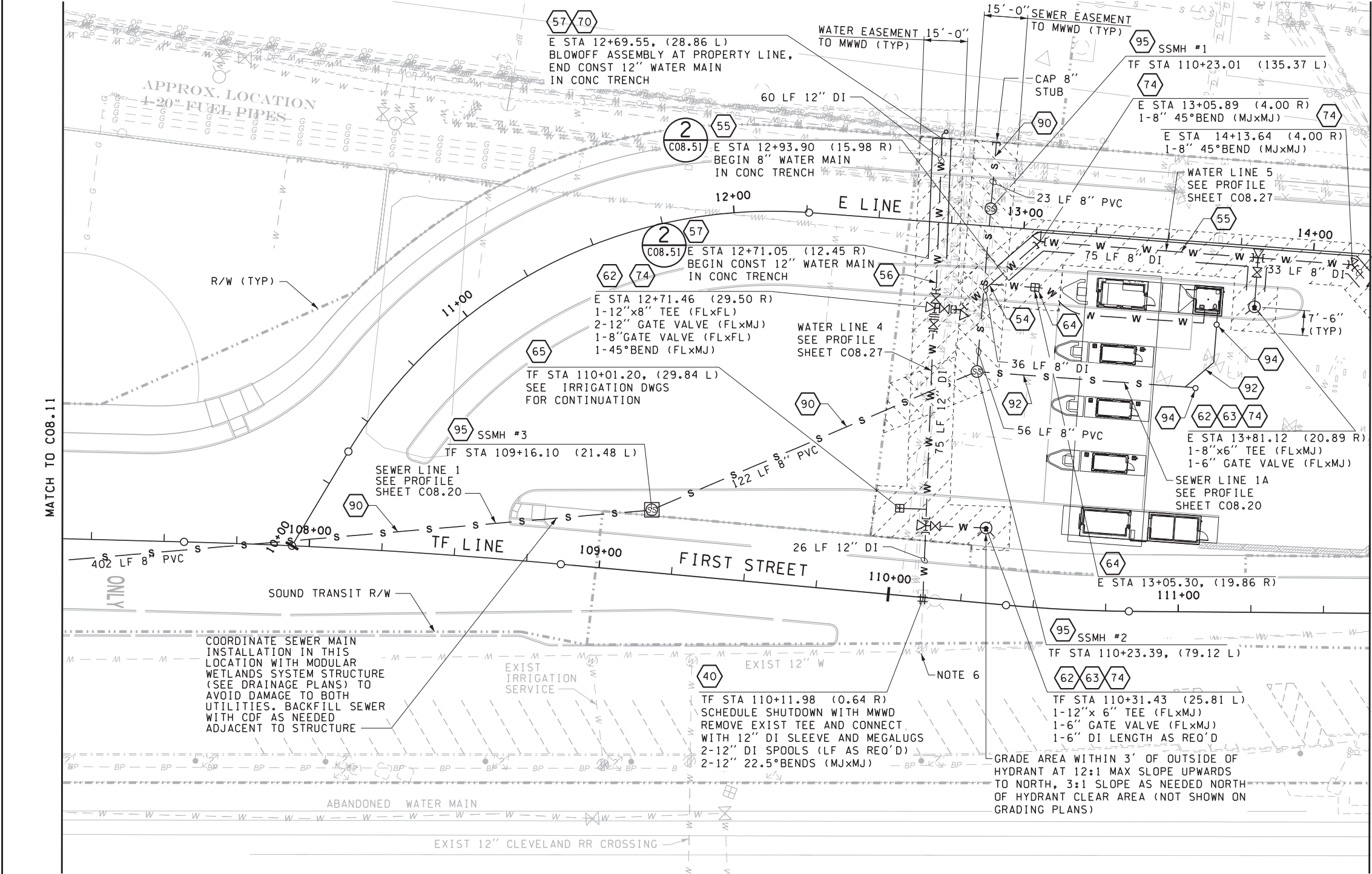


Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
WATER & SANITARY SEWER
PLAN

C08.12

SHEET
194
OF
1521
SHEETS



NOTES:

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3. ALL MJ FITTINGS SHALL BE RESTRAINED WITH MEGA-LUGS, ROMAGRIP OR ACCEPTED EQUAL.
4. ALL PIPE AND FITTINGS FOR WATER MAIN AND FIRE SYSTEMS SHALL BE CL52 DI, EXCEPT FOR FLANGED SPOOLS, WHICH SHALL BE CLASS 53.

CONSTRUCTION NOTES:

- 40 CONNECT TO EXIST DI WATER. POT HOLE TO CONFIRM EXIST SIZE, LOCATION, AND MATERIAL
- 54 CONST 8" WATER MAIN PER MWWD STD DETAIL W-D1
- 55 CONST 8" WATER MAIN IN CONC TRENCH
- 56 CONST 12" WATER MAIN PER MWWD STD DETAIL W-D1
- 57 CONST 12" WATER MAIN IN CONC TRENCH
- 62 CONST GATE VALVE
- 63 CONST FH PER MWWD STD DETAIL W-D3
- 66 CONST 2" IRRIG WATER SVC PER MWWD STD DETAIL W-D12, W/ DCVA PER STD DETAIL W-D17
- 72 CONST 1" AIR RELEASE VALVE ASSEMBLY AT HIGH POINT PER MWWD STD DETAIL W-D6
- 74 CONST THRUST BLOCK PER MWWD STD DETAIL W-D15

APPROVAL BLOCK

Approved by _____ Date _____
 Mukilteo Water and Wastewater _____
 Mukilteo Water and Wastewater District Extension No. _____
 Gray & Osborne No. _____

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KEY PLAN

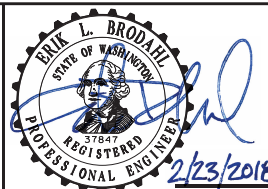
0 20 40
 SCALE 1" = 40'



JACOBS



Washington State
 Department of Transportation
 WASHINGTON STATE FERRIES



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MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

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DATE:

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DATE:

REVISION

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BY

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WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

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C08.13

SHEET

195

OF

1521

SHEETS

SR 525
 MUKILTEO FERRY TERMINAL (PHASE 2)
 FERRY TERMINAL CONSTRUCTION
 WATER & SANITARY SEWER
 PLAN

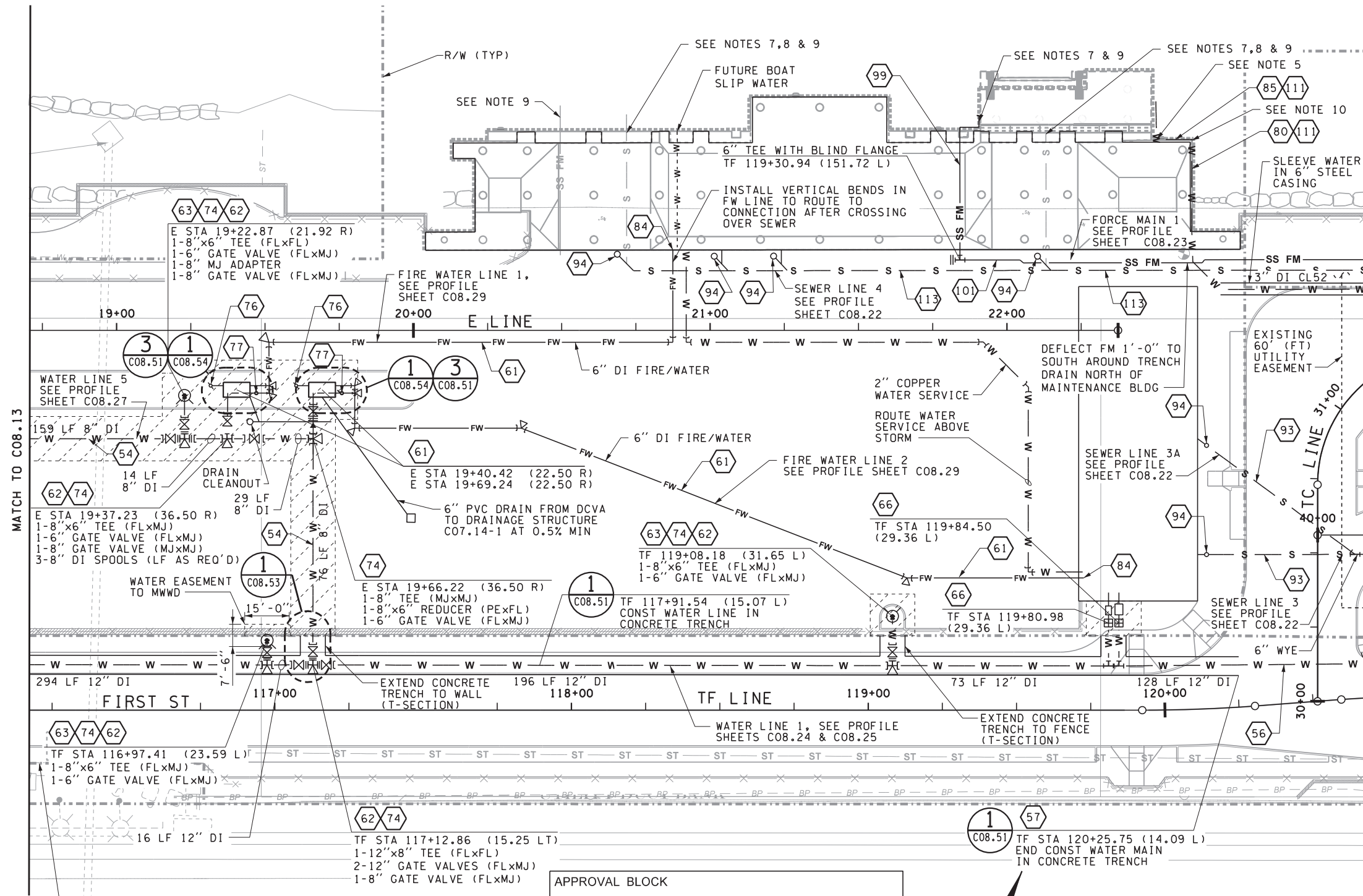
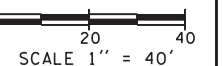
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- ALL PIPE AND FITTINGS FOR WATER MAIN AND FIRE SYSTEMS SHALL BE CL52 DI, EXCEPT FOR FLANGED SPOOLS, WHICH SHALL BE CLASS 53.
- SEE VTS MECHANICAL FOR CONTINUATION.
- SEE MECHANICAL DRAWINGS FOR UTILITIES ON TRANSFER SPAN.
- SEE TRESTLE STRUCTURAL DRAWINGS FOR PIPE CASING DETAILS.
- EXTEND SIDE SEWER LINE TO TRENCH DRAIN, PER STORM.
- SEE TRESTLE WATER/WASTEWATER MATERIALS SCHEDULE, SHEET C08.50.
- 3"x4" INCREASER OR REDUCING COUPLING (GROOVED).

CONSTRUCTION NOTES:

- CONST 8" WATER MAIN PER MWWD STD DETAIL W-D1
- CONST 12" WATER MAIN PER MWWD STD DETAIL W-D1
- CONST 12" WATER MAIN IN CONC TRENCH
- CONST 6" FIRE SVC PER MWWD STD DETAILS W-D19, W-D20 AND W-D21
- CONST GATE VALVE
- CONST FH PER MWWD STD DETAIL W-D3
- CONST 2" WATER SVC PER MWWD STD DETAIL W-D12, WITH RPBA IN FIBERGLASS HOT BOX PER MWWD STD DETAIL W-D26 ON WEST SERVICE (TERMINAL BLDG) AND DVCA PER MWWD STD DETAIL W-D17 ON EAST SERVICE (MAINT BLDG)
- CONST THRUST BLOCK PER MWWD STD DETAIL W-D15
- CONST FDC
- CONST PIV
- CONST 3" GALV STL WATER SUSPENDED ALONGSIDE TRESTLE. SEE STRUCT DWGS FOR HANGING DETAILS
- INSTALL FIRE LINE RISER WITHIN BUILDING PER MWWD STD DETAIL W-D21
- CONST 4" GALV STL WATER SUSPENDED ALONGSIDE TRESTLE. SEE STRUCT DWGS FOR HANGING DETAILS.
- CONST 8" PVC SS MAIN PER MWWD STD DETAIL S-D1
- CONST 6" DI SIDE SEWER PER MWWD STD DETAIL S-D8
- CONST WYE WITH CLEAN OUT PER MWWD STD DETAIL S-D10
- CONST 6" HDPE DR21 SS FORCE MAIN THROUGH TRESTLE. SEE CU02.00 OF TRESTLE AND BRIDGE SEAT DRAWINGS FOR CASING PROVISIONS.
- CONST 6" HDPE IPS, DR21, FORCE MAIN PER MWWD STD DETAIL S-D1
- INSTALL 2" WALL THICKNESS, K-FLEX FOAM INSUL. W/ CLAD IN JACKETING
- CONST 8" PVC SIDE SEWER PER MWWD STD DETAIL S-D8

KEY PLAN



APPROVAL BLOCK

Approved by _____ Date _____

Mukilteo Water and Wastewater _____

Mukilteo Water and Wastewater District Extension No. _____

Gray & Osborne No. _____

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JACOBS

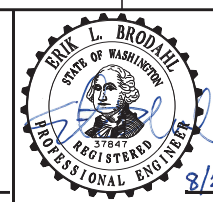


Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
WATER & SANITARY SEWER
PLAN

C08.14
SHEET
196
OF
1521
SHEETS

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CHECKED BY: P. TISSEL	8/22/2018			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00*****
	REVISION	DATE	BY	



NOTES:

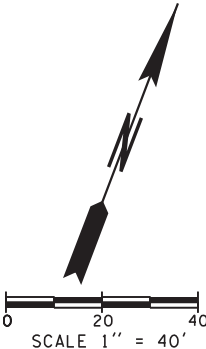
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CONSTRUCTION NOTES:

- 5 MAGNETIC FLOW METER VAULT FOR SEWER FORCE MAIN DISCHARGE FROM VESSELS. SEE DETAIL 1 SHEET C08.52. SEE SITE COMMUNICATION AND ELECTRICAL DRAWINGS FOR LOCATION OF REMOTE READOUT
- 50 CONST 3" WATER SERVICE PER MWWD STD DETAIL W-D1
- 54 CONST 8" WATER MAIN PER MWWD STD DETAIL W-D1
- 56 CONST 12" WATER MAIN PER MWWD STD DETAIL W-D1
- 61 CONST 6" FIRE SVC PER MWWD STD DETAILS W-D20 AND W-D21
- 62 CONST GATE VALVE
- 63 CONST FH PER MWWD STD DETAIL W-D3
- 66 CONST 2" WATER SVC PER MWWD STD DETAIL W-D12
- 68 CONST 3" PRV ASSEMBLY WITH RPBA IN HOT BOX PER MWWD STD DETAIL W-D18. ROUTE 6" DRAIN TO STORM DISCHARGE
- 72 CONST 1" AIR & VACUUM RELEASE VALVE ASSEMBLY AT HIGH POINT PER MWWD STD DETAIL W-D6
- 73 CONST 2" AIR & VACUUM RELEASE VALVE ASSEMBLY AT HIGH POINT PER MWWD STD DETAIL W-D7
- 74 CONST THRUST BLOCK PER MWWD STD DETAIL W-D15
- 78 CONST 3" WATER SVC PER MWWD STD DETAIL W-D13
- 90 CONST 8" PVC SS MAIN PER MWWD STD DETAIL S-D1
- 93 CONST 6" DI SIDE SEWER PER MWWD STD DETAIL S-D8
- 94 CONST WYE WITH CLEAN OUT PER MWWD STD DETAIL S-D10
- 95 CONST STD MH PER MWWD STD DETAIL S-D2
- 102 CONST 4" DI, CL52 FORCE MAIN PER MWWD STD DETAIL S-D1



KEY PLAN



APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
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JACOBS

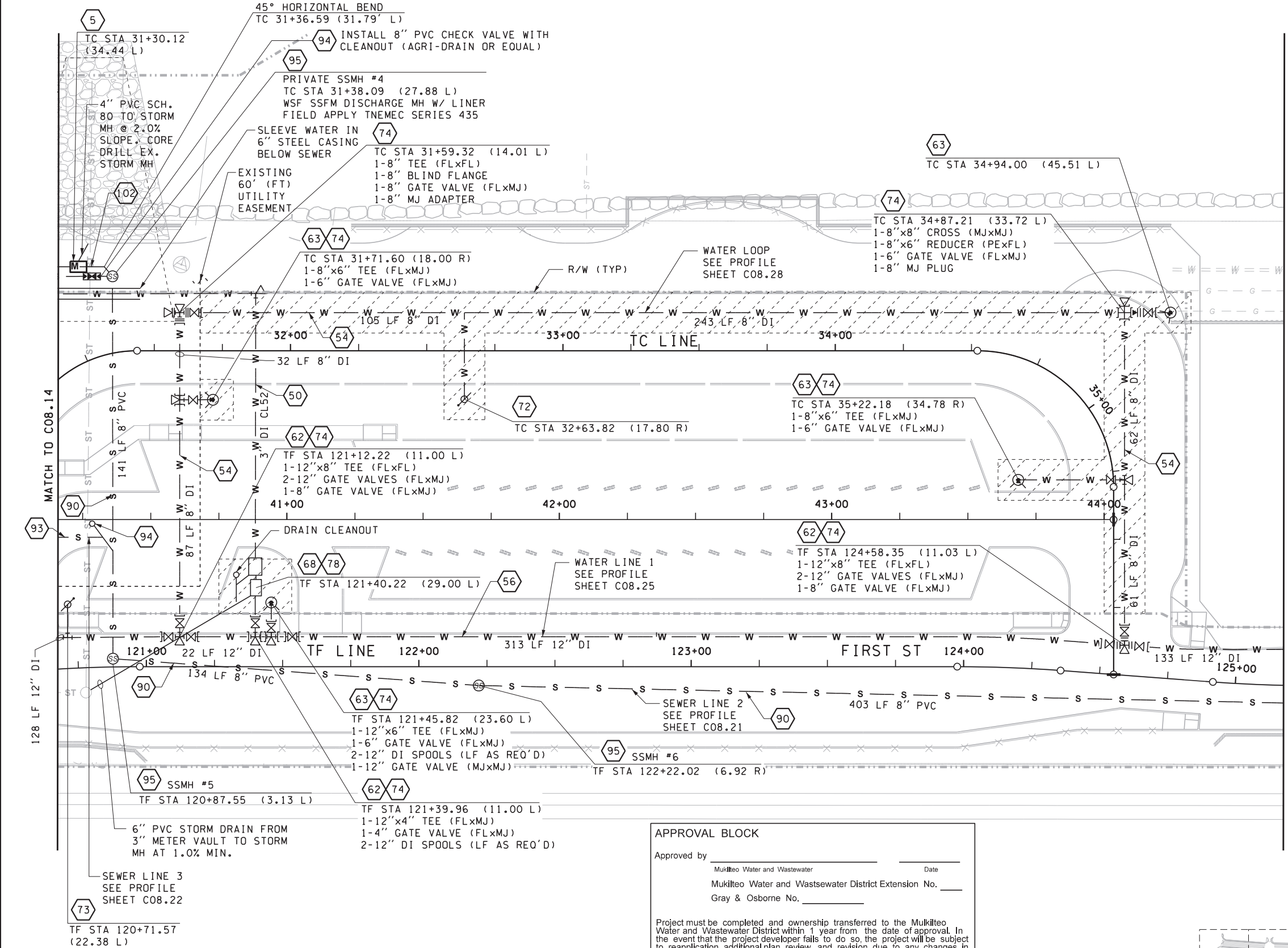


Washington State
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WASHINGTON STATE FERRIES

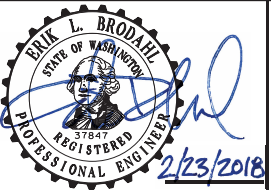
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
WATER & SANITARY SEWER
PLAN

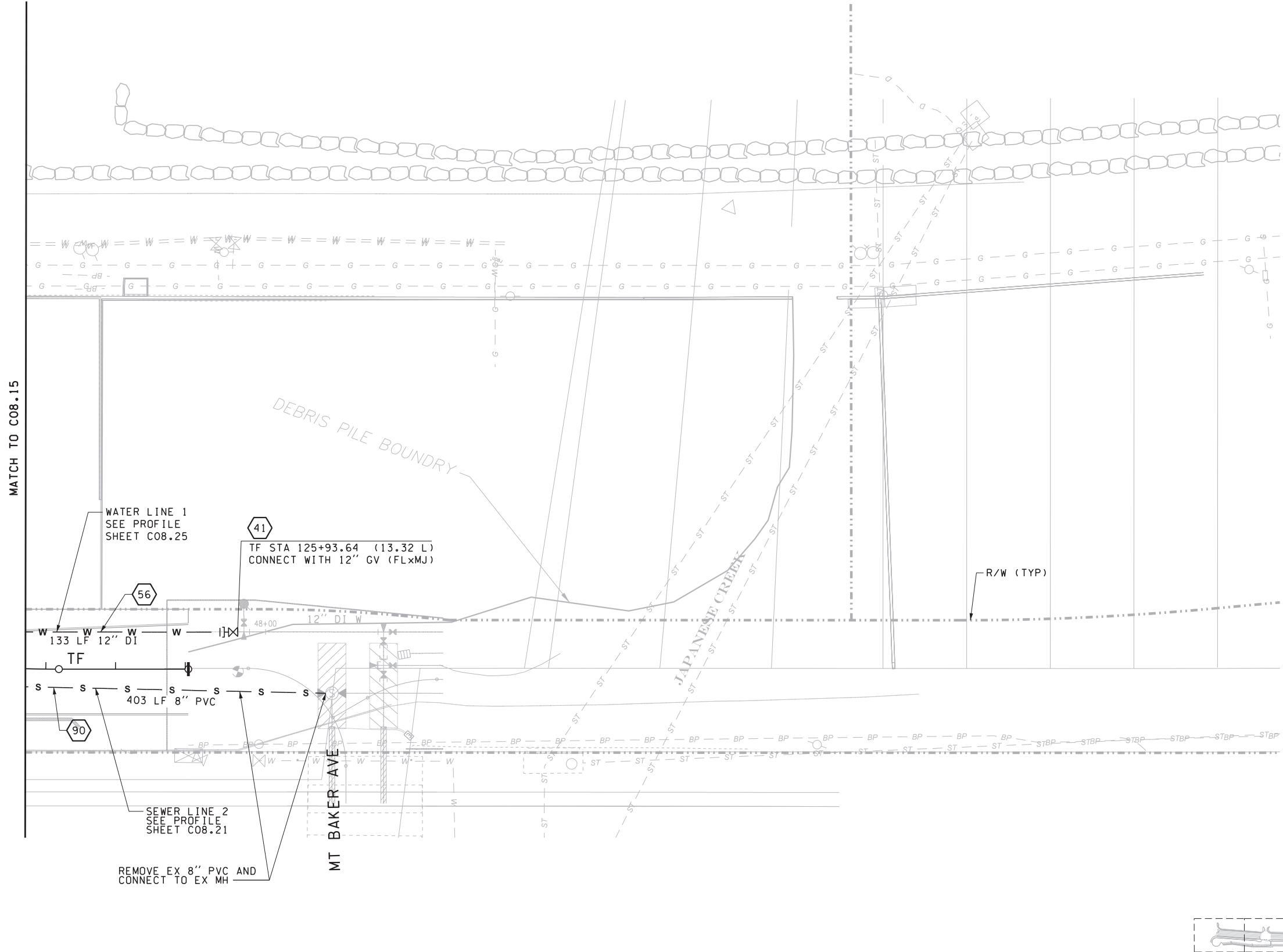
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OF
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SHEETS



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CHECKED BY: P. SACK	2/22/2018		JOB NUMBER
MAR PROJ ENGR: C. TORRES			18W121
DIR TERM ENGR: N. MCINTOSH			CONTRACT NO.
ASST SECRETARY: A. SCARTON			00*****
REVISION	DATE	BY	





MATCH TO C08.15

WATER LINE 1
SEE PROFILE
SHEET C08.25

41
TF STA 125+93.64 (13.32 L)
CONNECT WITH 12" GV (FLxMJ)

SEWER LINE 2
SEE PROFILE
SHEET C08.21

REMOVE EX 8" PVC AND
CONNECT TO EX MH

MT BAKER AVE

JAPANESE CREEK

R/W (TYP)

NOTES:

1. SEE SITE ELECTRICAL DRAWINGS FOR EXISTING OVERHEAD POWER AND TELECOMMUNICATIONS.
2. ALL 8" AND 12" DI PIPE JOINTS SHALL BE RESTRAINED WITH FIELD-LOK GASKETS, OR ACCEPTED EQUAL.
3. ALL MJ FITTINGS SHALL BE RESTRAINED WITH MEGA-LUGS, ROMAGRIP OR ACCEPTED EQUAL.
4. ALL PIPE AND FITTINGS FOR WATER MAIN AND FIRE SYSTEMS SHALL BE CL52 DI, EXCEPT FOR FLANGED SPOOLS, WHICH SHALL BE CLASS 53.

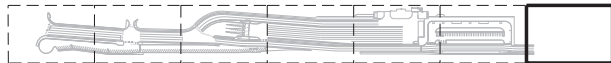
CONSTRUCTION NOTES:

- 41 REMOVE EXIST BLOCKING AND BLIND FLANGE. CONNECT TO EXIST WATER WITH 12" GATE VALVE (FLxMJ)
- 56 CONST 12" W MAIN PER MWWD STD DETAIL W-D1
- 90 CONST 8" PVC SS MAIN PER MWWD STD DETAIL S-D1

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater _____
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

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KEY PLAN

0 20 40
SCALE 1" = 40'

JACOBS



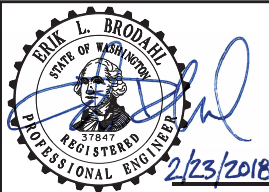
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
WATER & SANITARY SEWER
PLAN

C08.16

SHEET
198
OF
1521
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c08-16.dwg				
PRINTED: 4:37:25 PM 2/22/2018	LAST PRINTED BY:			FED.AID PROJ.NO.
SUBMITTAL DATE: 12/22/17	CONTRACTS			WA-2017-007-00
DESIGNED BY: E. BRODAHL	2/22/2018			REGION NO. STATE
ENTERED BY: R. REISER	2/22/2018			10 WASH
CHECKED BY: P. SACK	2/22/2018			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00****
	REVISION	DATE	BY	



NOTES:

1. VERIFY DEPTH AT POINT OF CONNECTION.
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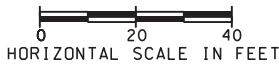
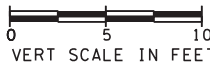
APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

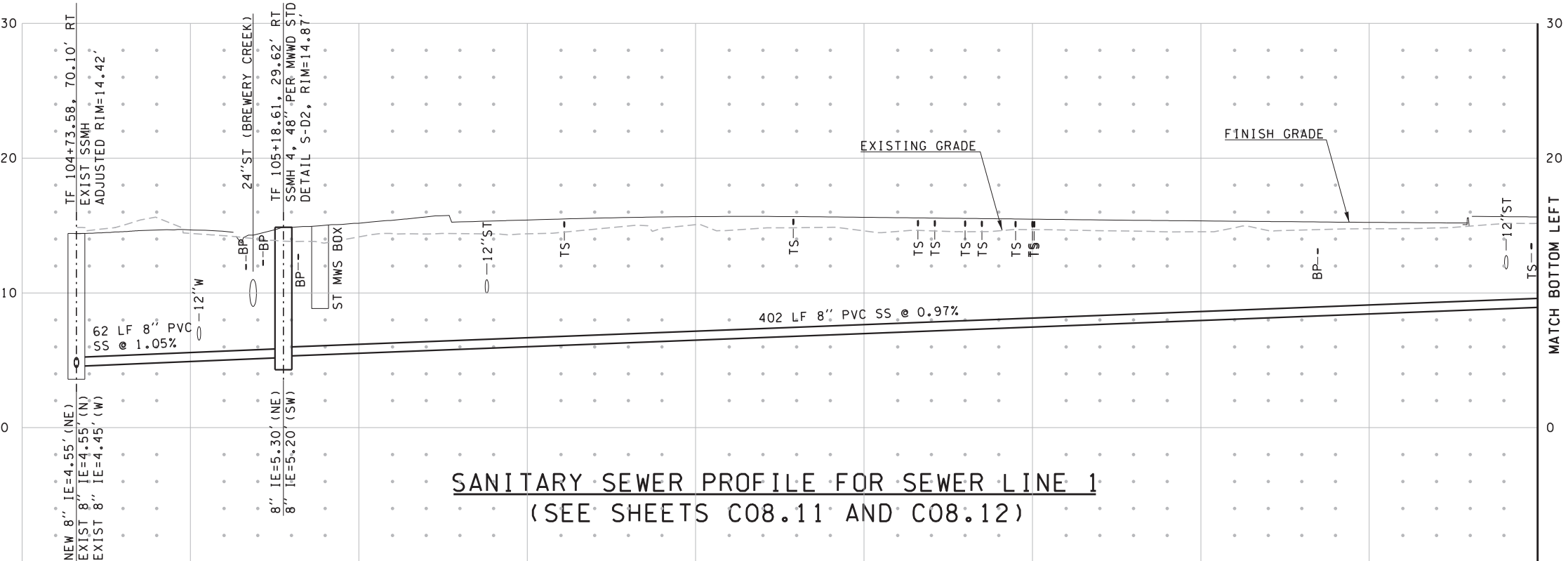
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MLLW

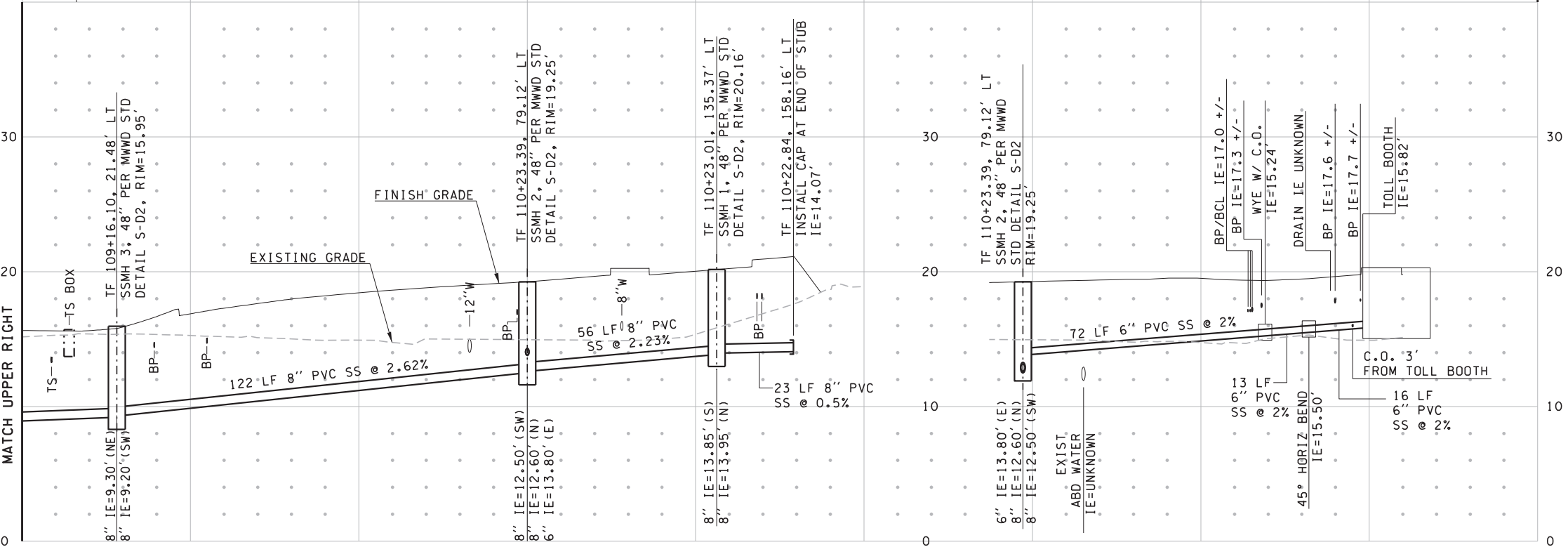


SANITARY SEWER PROFILE FOR SEWER LINE 1
(SEE SHEETS C08.11 AND C08.12)



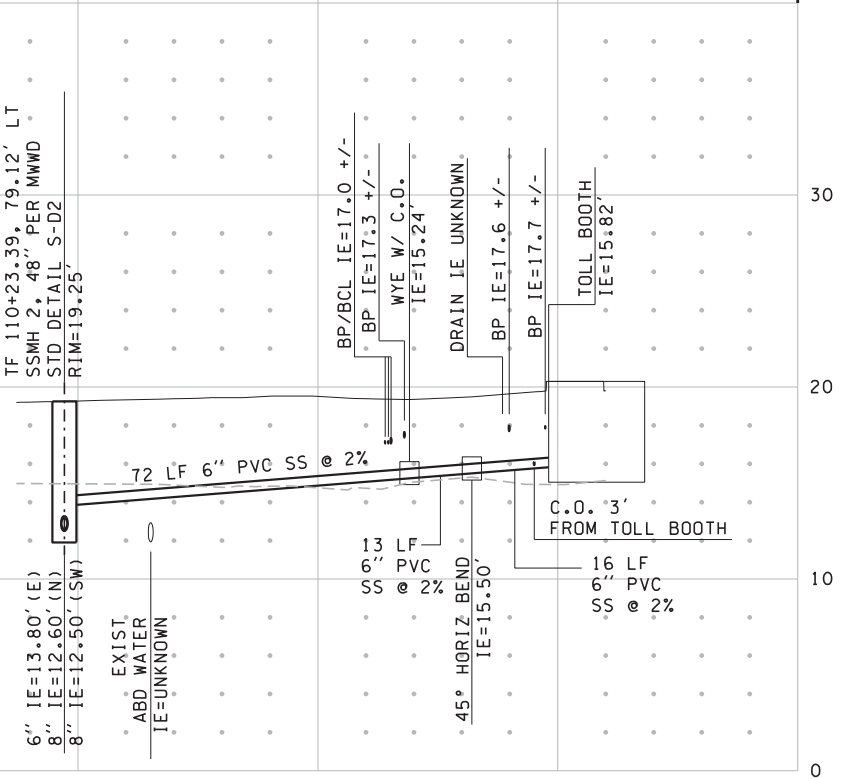
SANITARY SEWER PROFILE
FOR SEWER LINE 1 (CONT)

(SEE SHEETS C08.11 AND C08.12)



SANITARY SEWER PROFILE
FOR SEWER LINE 1A

(SEE SHEET C08.12)



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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

SANITARY SEWER PROFILE 1 & 1A

C08.20

SHEET
199
OF
1521
SHEETS

FILE NAME: WS\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c08_20.dwg

PRINTED: 4:37:29 PM 2/22/2018

SUBMITTAL DATE: 12/22/17

DESIGNED BY: E. BRODAHL

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MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

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2/22/2018

2/22/2018

2/22/2018

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BY

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PROJ.NO.

WA-2017-007-00

REGION NO. STATE

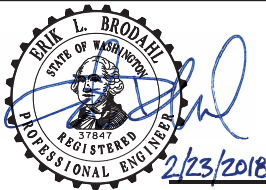
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JOB NUMBER

18W121

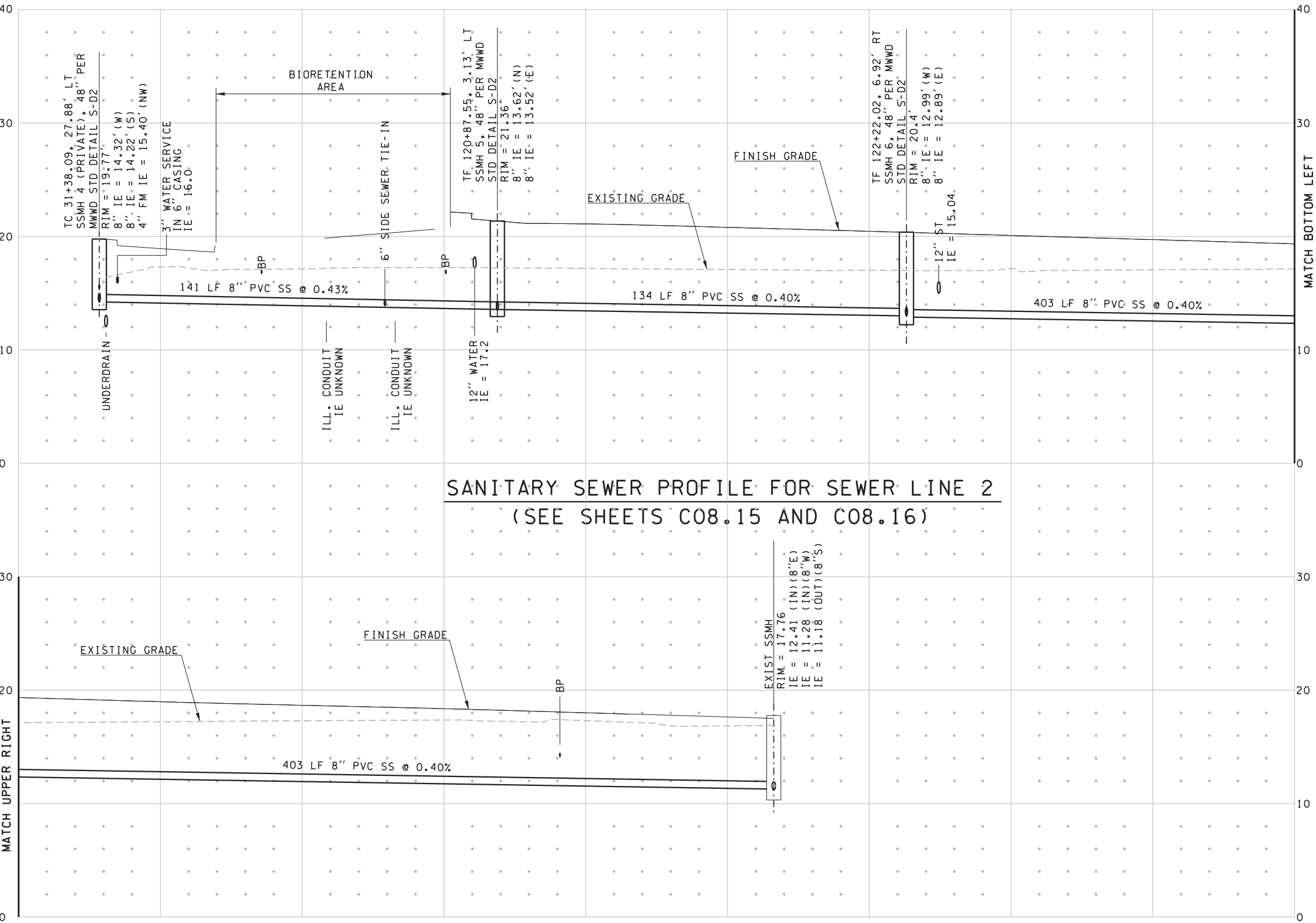
CONTRACT NO.

00*****



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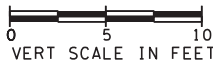
APPROVAL BLOCK

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Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

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SANITARY SEWER PROFILE FOR SEWER LINE 2 (CONT)
(SEE SHEETS C08.15 AND C08.16)

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Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

SANITARY SEWER PROFILE 2

C08.21

SHEET
200
OF
1521
SHEETS

FILE NAME: WSW\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c08_21.dwg

PRINTED: 4:37:32 PM 2/22/2018

SUBMITTAL DATE: 12/22/17

DESIGNED BY: E. BRODAHL

ENTERED BY: M. GUILLEN

CHECKED BY: P. SACK

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

CONF: ODDS

2/22/2018

2/22/2018

2/22/2018

REVISION

DATE

BY

FED.AID

PROJ.NO.

WA-2017-007-00

REGION NO. STATE

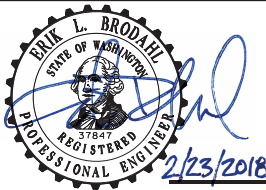
10 WASH

JOB NUMBER

18W121

CONTRACT NO.

00****



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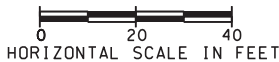
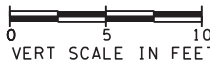
APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
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Department of Transportation
WASHINGTON STATE FERRIES

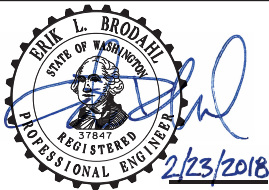
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

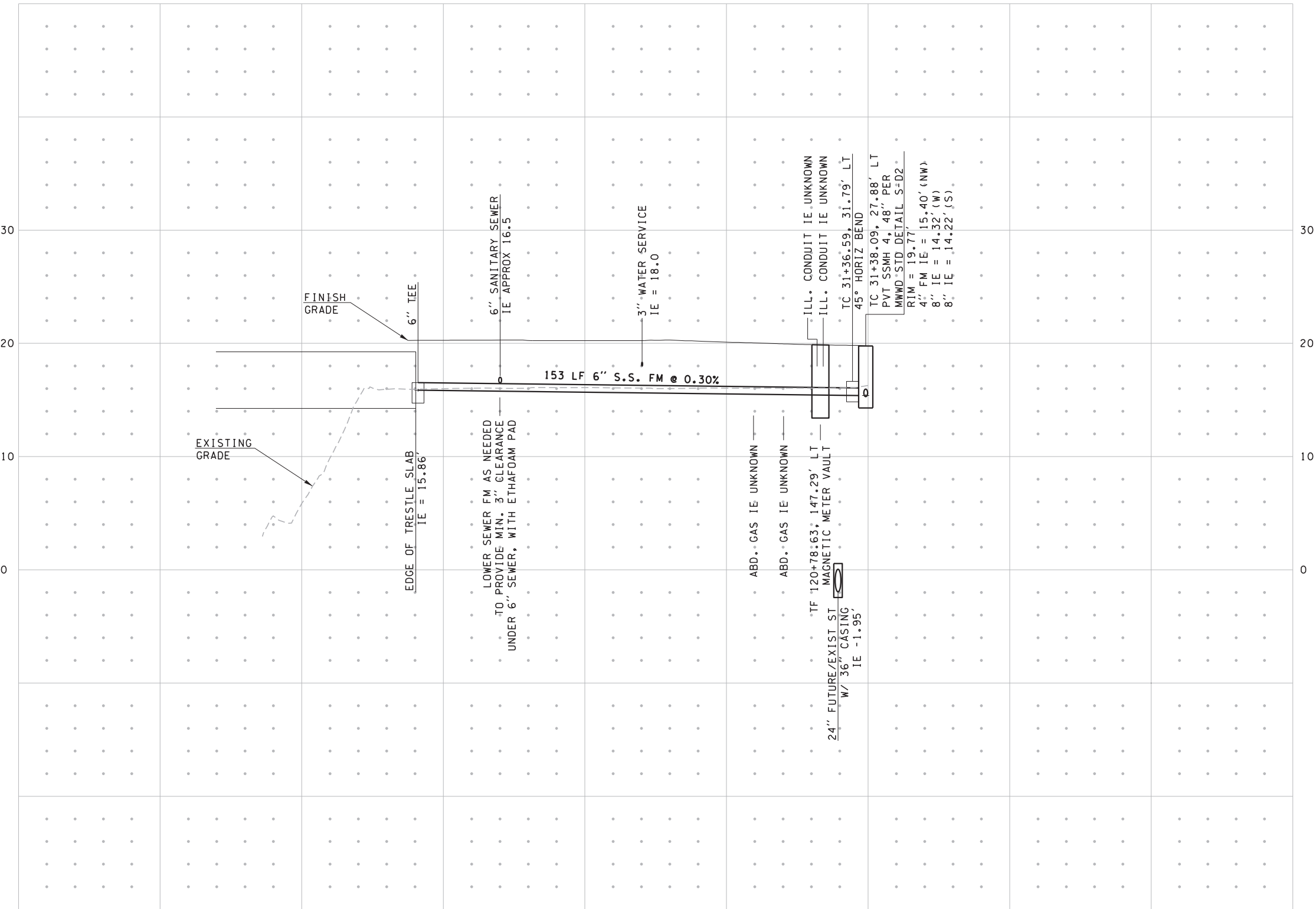
SANITARY SEWER PROFILE 3, 3A & 4

C08.22

SHEET
201
OF
1521
SHEETS

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PRINTED: 4:37:36 PM 2/22/2018	LAST PRINTED BY:			FED.AID PROJ.NO.
SUBMITTAL DATE: 12/22/17	CONTRACT NO.			WA-2017-007-00
DESIGNED BY: E. BRODAHL	2/22/2018			REGION NO. STATE
ENTERED BY: M. GUILLEN	2/22/2018			10 WASH
CHECKED BY: P. SACK	2/22/2018			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00****
REVISION		DATE	BY	





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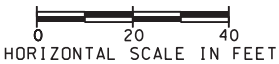
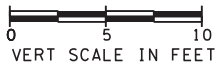
Mukilteo Water and Wastewater District Extension No. _____
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SANITARY SEWER FORCE MAIN PROFILE
SEE SHEETS C08.14 AND C08.15



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SUBMITTAL DATE: 12/22/17	corrodds			WA-2017-007-00
DESIGNED BY: E. BRODAHL	2/22/2018			REGION NO. STATE
ENTERED BY: M. GUILLEN	2/22/2018			10 WASH
CHECKED BY: P. SACK	2/22/2018			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00****
	REVISION	DATE	BY	



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

FORCE MAIN PROFILE

C08.23

SHEET
202
OF
1521
SHEETS

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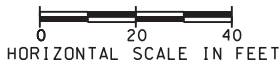
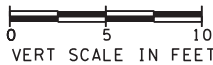
APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater
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Gray & Osborne No. _____

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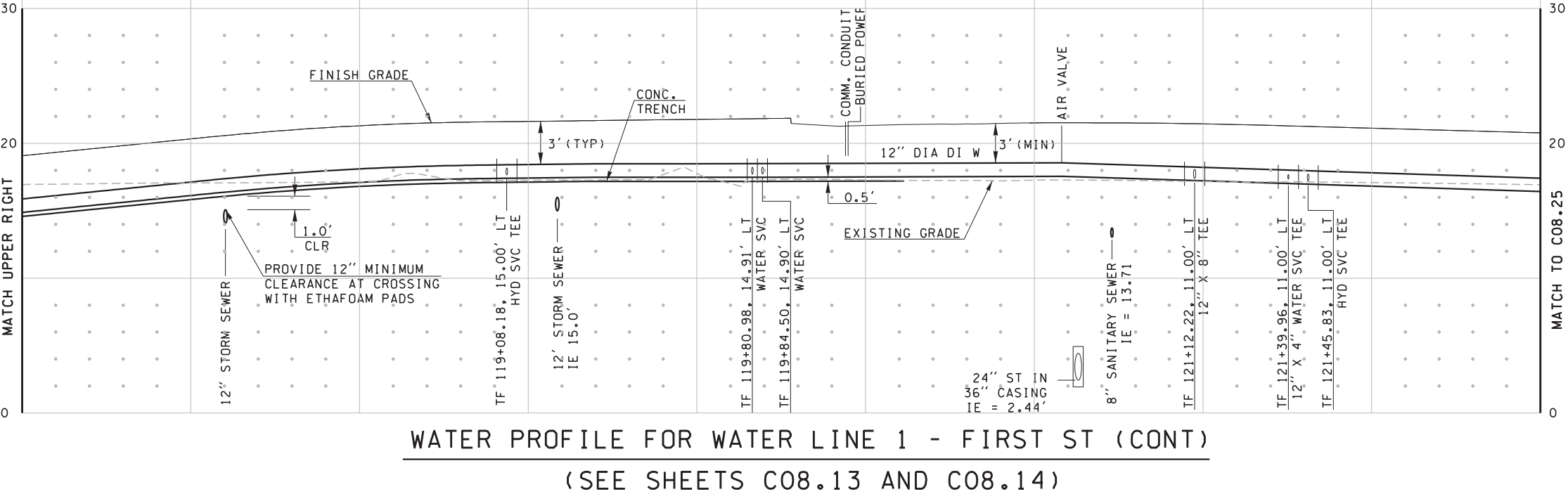
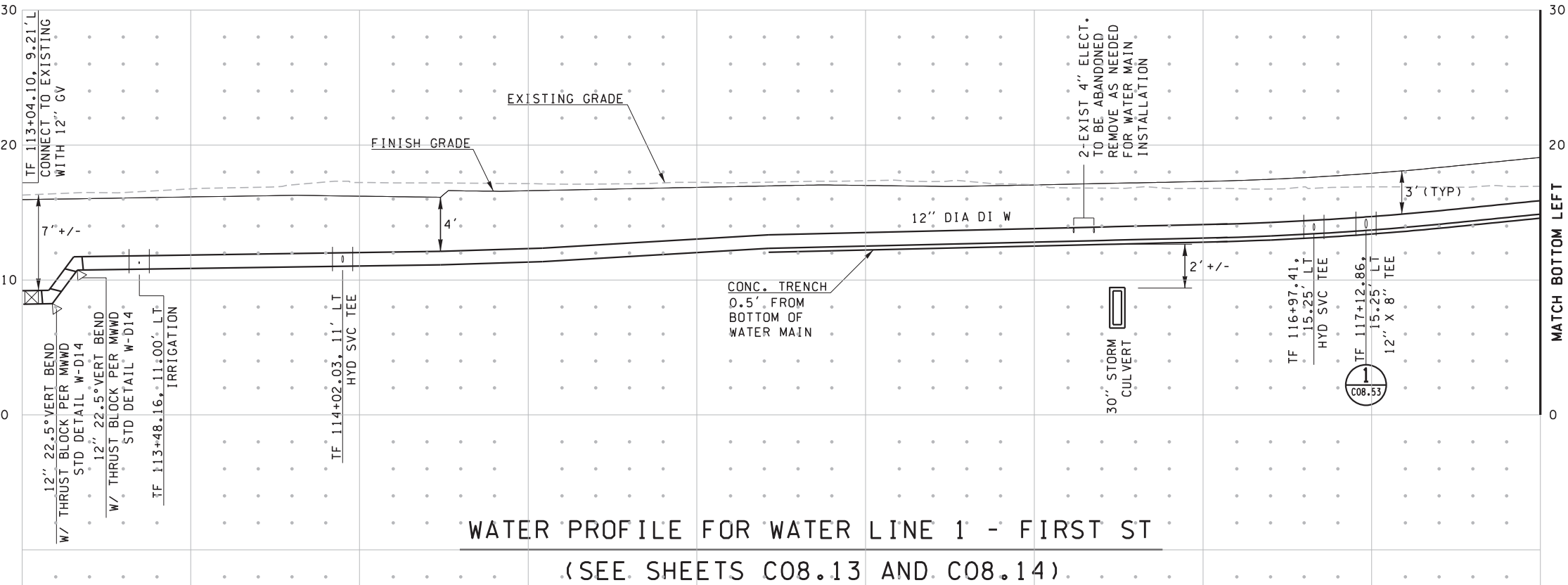
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

WATER PROFILE 1

C08.24

SHEET
203
OF
1521
SHEETS



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SUBMITTAL DATE: 12/22/17

DESIGNED BY: E. BRODAHL

ENTERED BY: M. GUILLEN

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MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

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DATE:

REVISION

DATE

BY

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PROJ.NO.

WA-2017-007-00

REGION NO. STATE

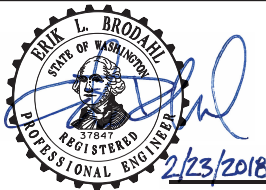
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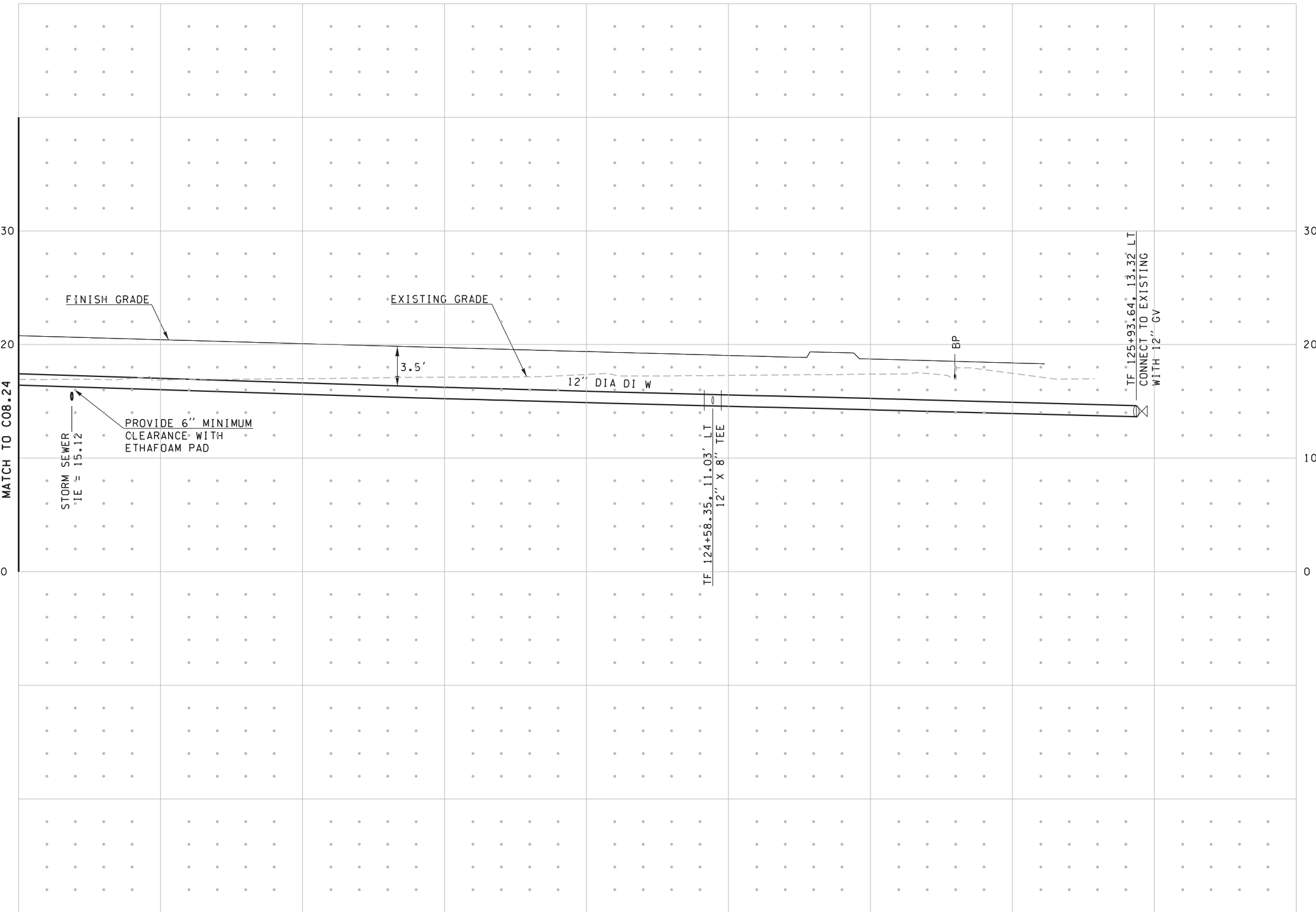
JOB NUMBER

18W121

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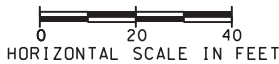
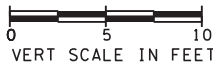
APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
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MLLW



WATER PROFILE FOR WATER LINE 1 - FIRST ST (CONT)
(SEE SHEETS C08.14 AND C08.16)

JACOBS



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

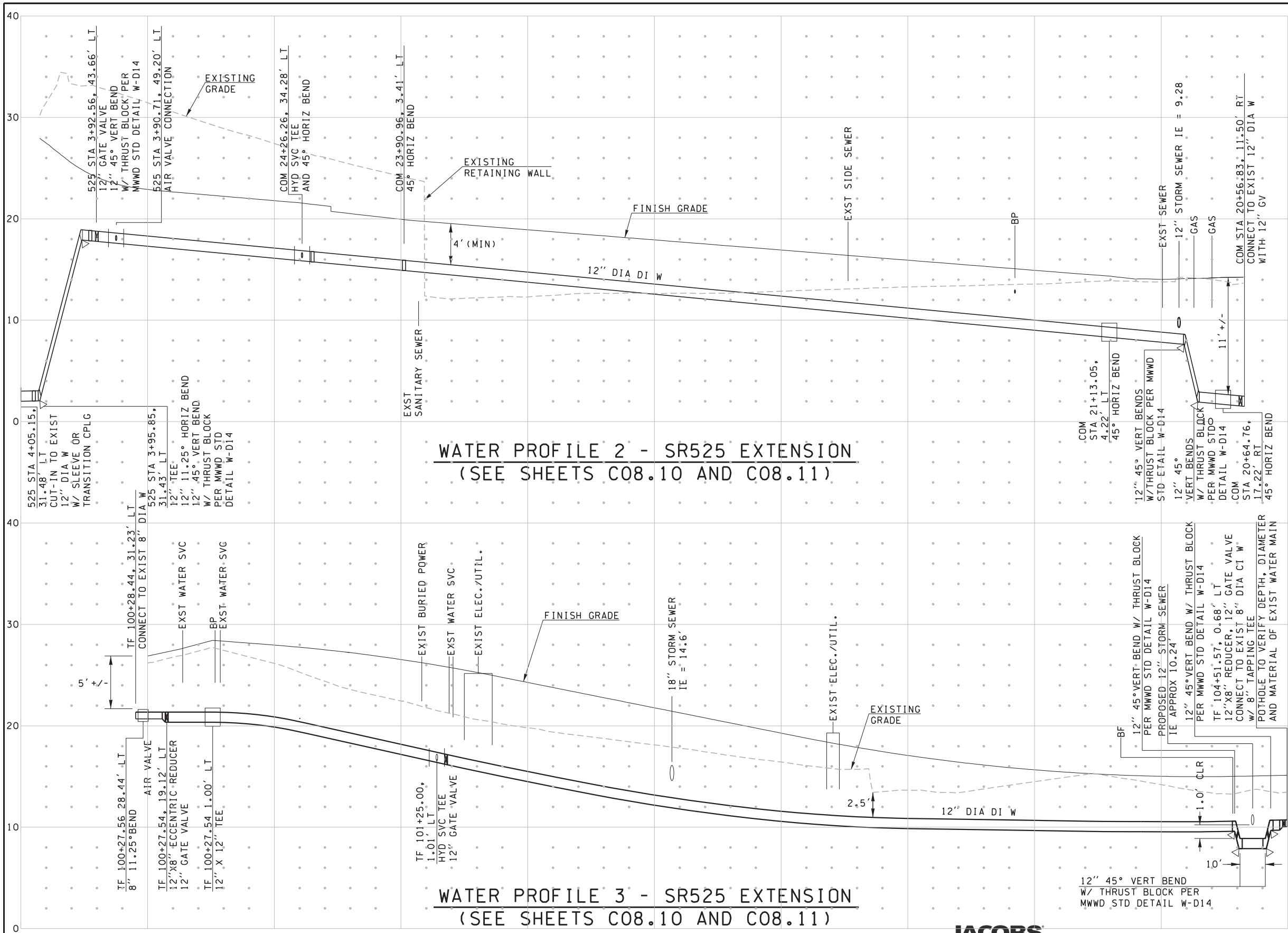
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

WATER PROFILE 1 - CONT.

C08.25

SHEET
204
OF
1521
SHEETS

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SUBMITTAL DATE: 12/22/17	DATE				PROJ.NO.		
DESIGNED BY: E. BRODAHL	2/22/2018				WA-2017-007-00		
ENTERED BY: M. GUILLEN	2/22/2018				REGION NO. STATE		
CHECKED BY: P. SACK	2/22/2018				10 WASH		
MAR PROJ ENGR: C. TORRES					JOB NUMBER		
DIR TERM ENGR: N. MCINTOSH					18W121		
ASST SECRETARY: A. SCARTON					CONTRACT NO.		
					00****		
	REVISION		DATE	BY			



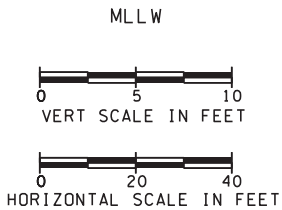
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APPROVAL BLOCK

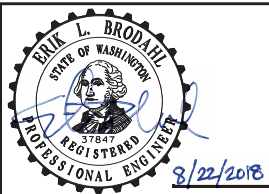
Approved by _____ Date _____
Mukilteo Water and Wastewater

Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

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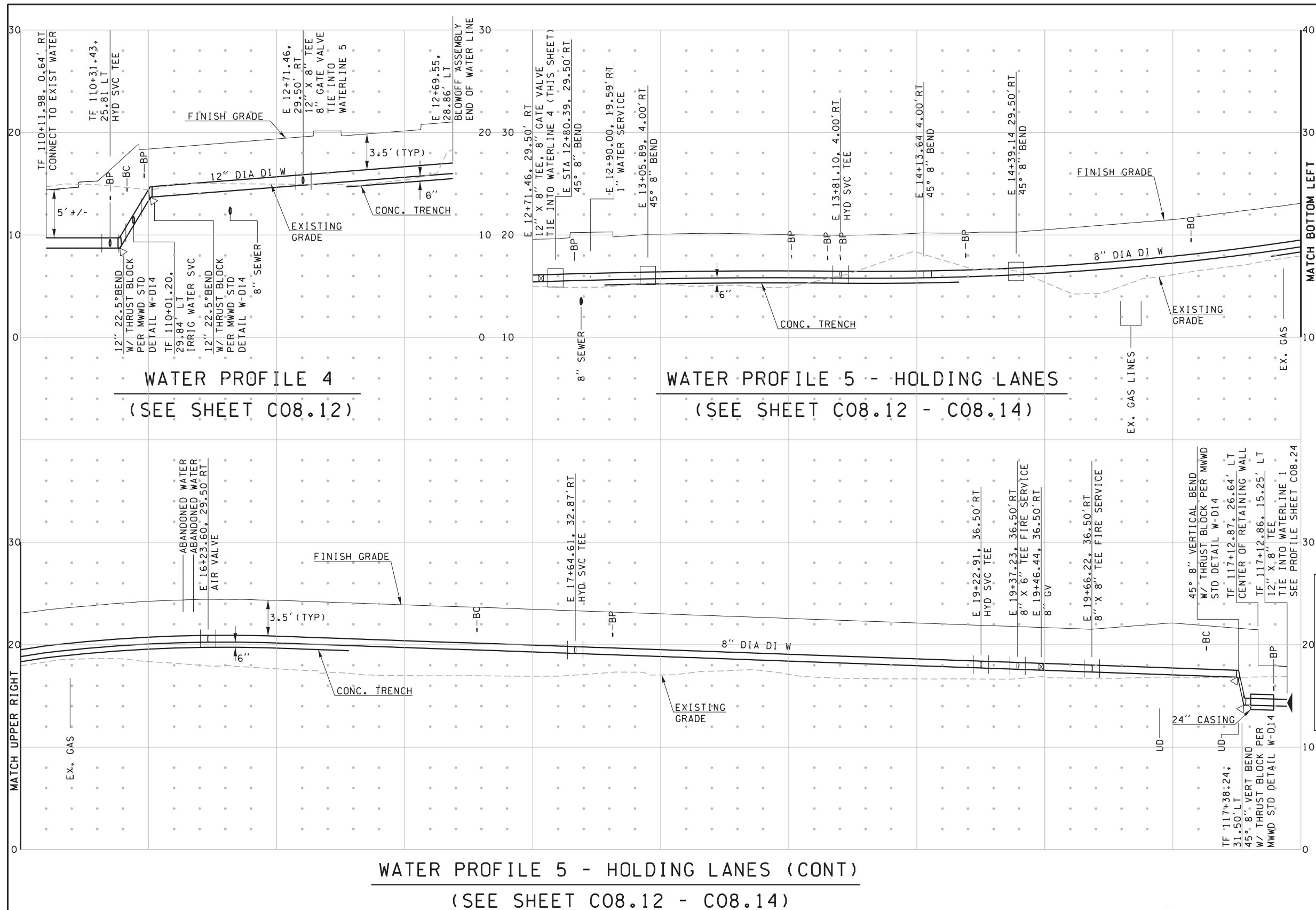
FILE NAME: WS\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c08_26.dwg			
PRINTED: 8:30:49 AM 8/22/2018	LAST PRINTED BY:		FED.AID PROJ.NO.
SUBMITTAL DATE: 08/23/18	Contractor:		WA-2017-007-00
DESIGNED BY: E. BRODAHL	8/22/2018		REGION NO. STATE
ENTERED BY: M. GUILLEN	8/22/2018		10 WASH
CHECKED BY: P. SACK	8/22/2018		JOB NUMBER
MAR PROJ ENGR: C. TORRES			18W121
DIR TERM ENGR: N. MCINTOSH			CONTRACT NO.
ASST SECRETARY: A. SCARTON			00*****
REVISION	DATE	BY	



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

WATER PROFILE 2 & 3

C08.26
SHEET
205
OF
1521
SHEETS



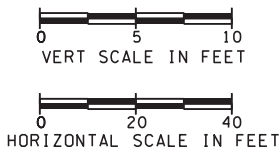
- NOTES:**
1. VERIFY DEPTH AT POINT OF CONNECTION.
 2. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE DRAWINGS HAVE BEEN PROVIDED BY OTHERS AND THEY HAVE NOT BEEN POTHOLED. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THE DRAWINGS EXISTING WITHIN THE AREA OF CONSTRUCTION. FIELD VERIFICATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION SHALL BE PERFORMED BY CONTRACTOR.
 3. ELEVATIONS OF ALL OTHER EXISTING AND PROPOSED UTILITIES SHOWN ARE APPROXIMATE, AND HAVE NOT BEEN VERIFIED. SEE OTHER UTILITY DESIGN DRAWINGS FOR MORE SPECIFIC ELEVATION INFORMATION. THE ELEVATIONS OF DRY UTILITIES ARE TYPICALLY NOT SHOWN.
 4. PROVIDE BLOCKING ON VERTICAL BENDS PER MWWD STANDARD DETAIL W-D14.
 5. ALL CROSSINGS OF WATER VS. SANITARY SEWER OR STORM SHALL MEET WASHINGTON STATE DOH REQUIREMENTS; SLEEVE PIPES OR ENCASE CROSSINGS NOT MEETING MINIMUM CLEARANCE REQUIREMENTS IN CDF.

APPROVAL BLOCK

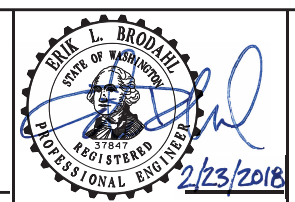
Approved by _____ Date _____
Mukilteo Water and Wastewater

Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

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SUBMITTAL DATE: 12/22/17	CONTRACT NO.			WA-2017-007-00
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ENTERED BY: M. GUILLEN	2/22/2018			10 WASH
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ASST SECRETARY: A. SCARTON				00*****
REVISION	DATE	BY		



SR 525		C08.27
MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION		
WATER PROFILE 4 & 5		SHEET 206 OF 1521 SHEETS

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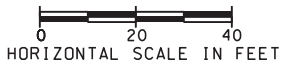
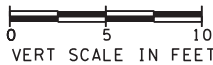
APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
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MLLW



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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

WATER PROFILE - WATER LOOP

C08.28

SHEET
207
OF
1521
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c08_28.dwg

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MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

corr:odcs

2/22/2018

2/22/2018

2/22/2018

REVISION

DATE

BY

FED.AID

PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

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Mukilteo Water and Wastewater
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0 5 10
VERT SCALE IN FEET

0 20 40
HORIZONTAL SCALE IN FEET

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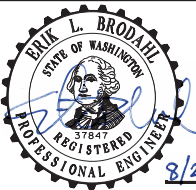


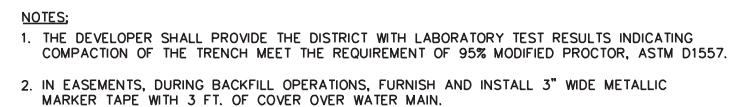
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
FIRE WATER PROFILE 1 & 2

C08.29
SHEET
208
OF
1521
SHEETS

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ASST SECRETARY: A. SCARTON					00****		
REVISION		DATE	BY				

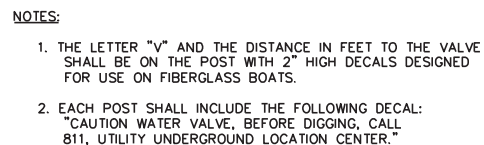




Mukilteo Water and Wastewater
District
STANDARD DETAILS

8/09

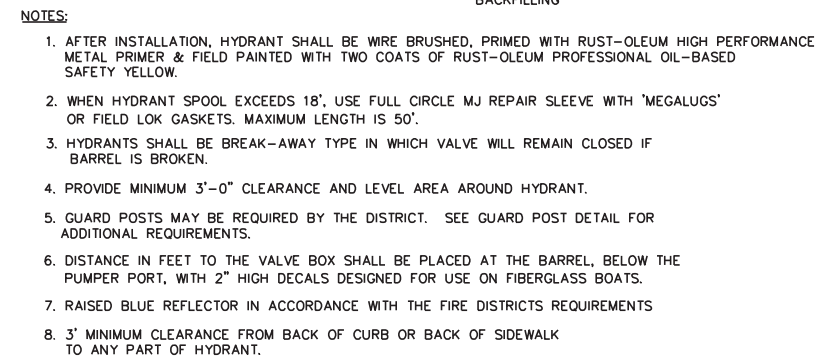
W-D1



Mukilteo Water and Wastewater
District
STANDARD DETAILS

2018

W-D2

Mukilteo Water and Wastewater
District
STANDARD DETAILS

2018

W-D3

APPROVAL BLOCK

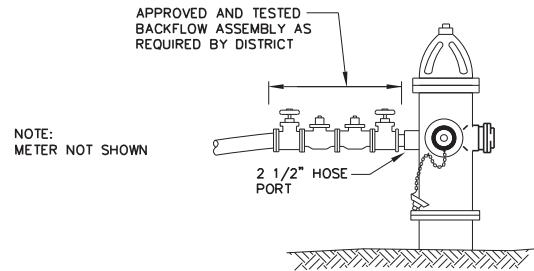
Approved by _____

Mukilteo Water and Wastewater Date _____

Mukilteo Water and Wastewater District Extension No. _____

Gray & Osborne No. _____

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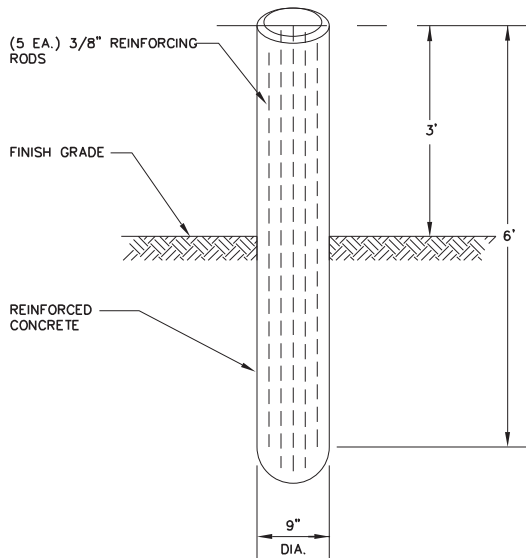
- HYDRANT USE PROCEDURES**
1. ACQUIRE HYDRANT METER FROM MWWD.
 2. THERE SHALL BE AN ACCEPTABLE WASHINGTON STATE APPROVED BACKFLOW ASSEMBLY FURNISHED AND INSTALLED BY CONTRACTOR. A HYDRANT METER SHALL BE OBTAINED FROM DISTRICT. (NOT SHOWN ABOVE)
 3. OPENING & CLOSING OF HYDRANT VALVE SHALL BE WITH AN ACCEPTABLE HYDRANT WRENCH.
 4. THERE SHALL BE AN AUXILIARY VALVE ATTACHED TO THE 2 1/2" HOSE PORT OF THE HYDRANT.
 5. THE HYDRANT VALVE SHALL BE FULLY OPENED AND THE WATER USE CONTROLLED EXCLUSIVELY BY THE AUXILIARY VALVE.
 6. THE AUXILIARY VALVE SHALL BE OPERATED IN A SLOW MANNER TO PREVENT UNDUE EXCESSIVE PRESSURE ON THE WATER SYSTEM.
 7. ANY VIOLATION OF ANY OF THE ABOVE SHALL BE SUBJECT TO A FINE.

HYDRANT USE

Mukilteo Water and Wastewater
District
STANDARD DETAILS

8/09

W-D4



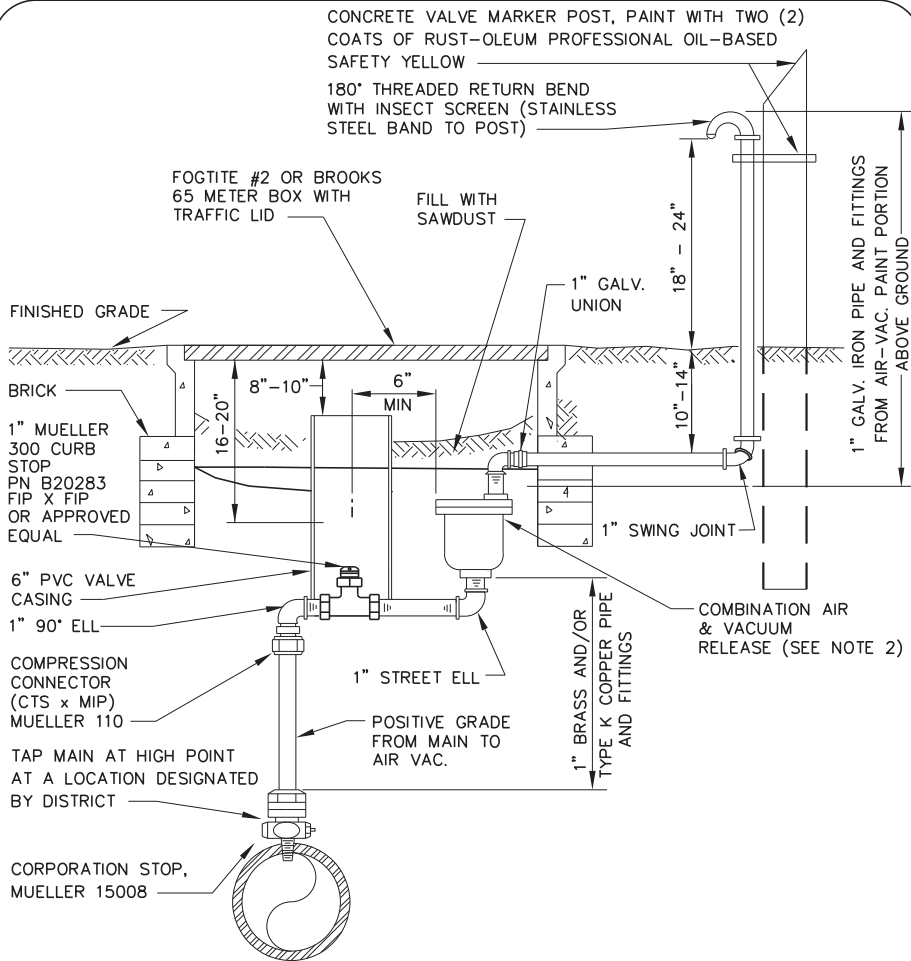
- NOTES**
1. GUARD POSTS SHALL CONSIST OF REINFORCED 9" DIA. PRECAST UNIT.
 2. THE NUMBER AND CONFIGURATION OF THE GAURD POSTS MAY BE 2, 3, OR 4 AND SHALL BE DETERMINED BY THE DISTRICT BASED ON FIELD CONDITIONS.
 3. GUARD POSTS SHALL BE PAINTED WITH TWO (2) COATS OF RUST-OLEUM PROFESSIONAL OIL-BASED SAFETY YELLOW PAINT.

GUARD POST

Mukilteo Water and Wastewater
District
STANDARD DETAILS

2018

W-D5



- NOTES:**
1. AIR-RELIEF ASSEMBLY LOCATION SHALL BE AT ALL HIGH POINTS OF THE SYSTEM.
 2. APPROVED COMBINATION AIR & VACUUM RELEASE ASSY'S:
 - a. CRISPEN UL-10
 - b. VALMATIC 201-C
 - c. APCO-143C

1" AIR RELEASE ASSEMBLY

Mukilteo Water and Wastewater
District
STANDARD DETAILS

2018

W-D6

APPROVAL BLOCK

Approved by _____ Date _____

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JACOBS



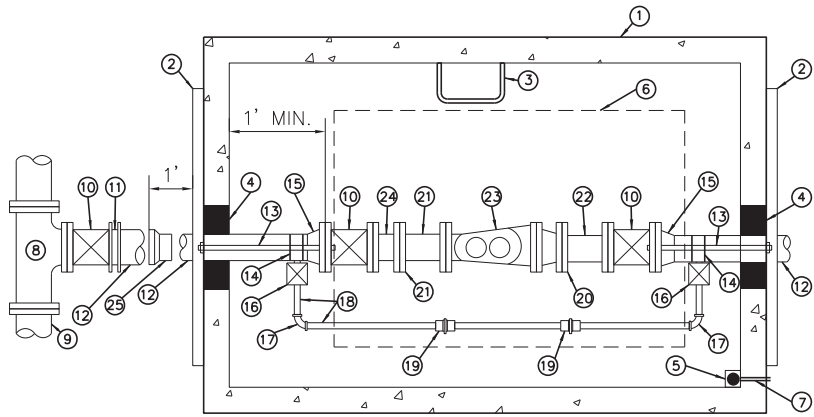
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
MWWD WATER STANDARD DETAILS

C08.31
SHEET
210
OF
1521
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c08_31.dwg					
PRINTED: 10:30:29 AM 8/22/2018	LAST PRINTED BY: DonielJL				FED.AID PROJ.NO.
SUBMITTAL DATE: 08/23/18					WA-2017-007-00
DESIGNED BY: E. BRODAHL	8/22/2018				REGION NO. STATE
ENTERED BY: R. REISER	8/22/2018				10 WASH
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MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00****
	REVISION	DATE	BY		



1521



3" & 4" METER SERVICE INSTALLATION

- ① UTILITY VAULT 4484-LA OR APPROVED EQUAL

② 4~3"x3"x3/8" GALV. ANGLES, 48" LONG (HOT DIPPED)

③ INSTALL LANE POLYPROPYLENE (STEEL REINFORCED) LADDER ON OPPOSITE SIDE OF SECONDARY METER. LOCATION TO BE APPROVED BY THE DISTRICT. (MUST BE ACCESSIBLE FROM VAULT LIDS & MUST NOT INTERFERE WITH THE METER MOUNT OR TESTING)

④ NON-SHRINK WATER TIGHT GROUT (BOTH ENDS)

⑤ DRAIN VAULT TO DAYLIGHT OR PROVIDE WATER TIGHT VAULT. EASEMENT REQUIRED ON DRAIN.

⑥ 36"x72" LW PRODUCTS HD ACCESS HATCH (H-20 RATED). HATCH TO BE COATED WITH THERMION TH604 ANTI-SLIP & ANTI-CORROSION SYSTEM. GRADE #2 MODERATE TEXTURE. LID AND HATCH TO BE H-30 RATED IF IN TRAFFIC AREA.

⑦ INSTALL PVC SHORT NIPPLE & 90° POINTED DOWN IN THE CORNER DRAIN WITH 1" WASHED DRAIN ROCK POCKET. NOTE: DEPENDING ON MANUFACTURER AND SIZE OF VAULT DRAIN KNOCKOUTS COULD BE ON SIDES OR END OF LID.

⑧ 3" OR 4" TEE (FL).

⑨ WATER MAIN.

⑩ 3" OR 4" R.W. GATE VALVE (FLxMJ).

⑪ MEGALUG GLAND OR APPROVED EQUAL.

⑫ 3" OR 4" DUCTILE IRON PIPE.

⑬ (4) 5/8 DIA. SST. ALL-THREAD, BOLT FLANGE THROUGH WALL TO ANGLE (STAINLESS).

⑭ ROMAC 2"x3" (202NS-4.05) OR 2"x4" (202NS-4.80) DOUBLE STRAP STAINLESS STEEL SADDLE OR APPROVED EQUAL.

⑮ MEGALUG GLAND OR APPROVED EQUAL.

⑯ 2" R.W. GATE VALVE (2 PLACES).

⑰ 2" BRASS 90° BEND.

⑱ 2" BRASS PIPE (TYP).
- ⑲ 2" BRASS UNION AS APPROVED BY THE DISTRICT.

⑳ MEGAFLANGE ADAPTER.

㉑ DUCTILE IRON SPOOL (FLxPE) (15" LONG FOR 3" METER, 20" LONG FOR 4" METER).

㉒ 3" OR 4" DUCTILE IRON SPOOL (FLxPE) (10" LONG MIN.).

㉓ 3" OR 4" BADGER RECORDALL COMPOUND SERIES METER (FLxFL), LEAD FREE BRONZE ALLOY WITH HIGH RESOLUTION ENCODER (HR-E) AND ORION CE TRANSMITTER. MOUNT RADIO TRANSMITTER THROUGH VAULT LID AS DIRECTED BY THE DISTRICT. FACTORY PROGRAMMED FOR GALLONS.

㉔ 3" OR 4" BADGER PLATE STRAINER (FLxFL).

㉕ 4"x3" DUCTILE IRON REDUCER AS DIRECTED BY THE DISTRICT (MJxMJ) WITH MEGALUG FOLLOWER GLANDS.

NOTE:
PIPING & VALVES MUST BE SUPPORTED BY ADJUSTABLE PIPE SUPPORT STANDONS, MODEL S-92 OR APPROVED EQUAL. A MINIMUM OF TWO REQUIRED OR AS DIRECTED BY THE DISTRICT.

3" & 4"
SERVICE INSTALLATION

Mukilteo Water and Wastewater
District
STANDARD DETAILS

2018

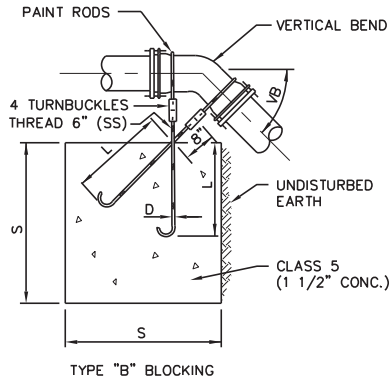
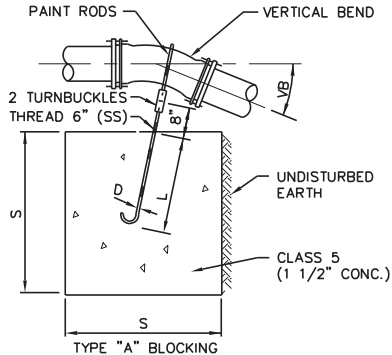
W-D13

NOTE:

FOR 3" SERVICE TO FERRY BOATS, ELIMINATE DCVA AND ONE RWGV SHOWN ABOVE. USE UTILITY VAULT/OLDCASTLE PRECAST MODEL 664-LA OR APPROVED EQUAL WITH SINGLE HATCH. PROVIDE 3" INDIVIDUAL PRV, WATTS LEAD FREE LFN223F OR ACCEPTED EQUAL. PROVIDE LARGER METER BOX AS NECESSARY TO ACCOMMODATE IPRV.

TYPE "A" BLOCKING FOR 11 1/4"-22 1/2"-30" VERTICAL BENDS						
PIPE SIZE NOMINAL DIAMETER- INCHES	TEST PRESSURE PSI	VERTICAL BEND DEGREES	NO. OF CU. FT. OF CONC. BLOCKING	S SIDE OF CUBE LIN. FT.	D DIAMETER OF RODS (2) INCHES	L DEPTH OF RODS IN CONCRETE LIN. FT.
4"	300	11 1/4	8	2	5/8"	1.5
		22 1/2	11	2.2		
		30	17	2.6		
6"	300	11 1/4	11	2.2	5/8"	2.0
		22 1/2	25	2.9		
		30	41	3.5		
8"	300	11 1/4	16	2.5	5/8"	2.0
		22 1/2	47	3.6		
		30	70	4.1		
12"	250	11 1/4	32	3.2	5/8"	2.0
		22 1/2	88	4.5	7/8"	3.0
		30	132	5.1		
16"	225	11 1/4	70	4.1	7/8"	3.0
		22 1/2	184	5.7	1 1/8"	4.0
		30	275	6.5	1 1/4"	
20"	200	11 1/4	91	4.5	7/8"	3.0
		22 1/2	225	6.1	1 1/4"	4.0
		30	330	6.9	1 3/8"	4.5
24"	200	11 1/4	128	5.0	1"	3.5
		22 1/2	320	6.8	1 3/8"	4.5
		30	480	7.9	1 7/8"	5.5
TYPE "B" BLOCKING FOR - 45° VERTICAL BENDS						
		VB		S	D	L
4"	300	45	30	3.1	5/8"	2.0
6"			68	4.1		
8"			123	5.0		
12"	250		232	6.1	3/4"	2.5
16"	225		478	7.8	1 1/8"	4.0
20"	200		560	8.2	1 1/4"	
24"			820	9.4	1 3/8"	4.5

- PIPE CLAMP, WASHERS AND NUTS MAY BE SUBSTITUTED FOR TURN BUCKLES. ALL OTHER SPECIFICATIONS THE SAME.

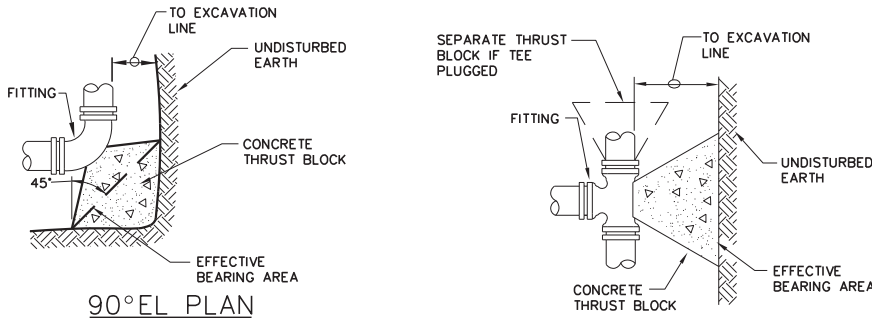
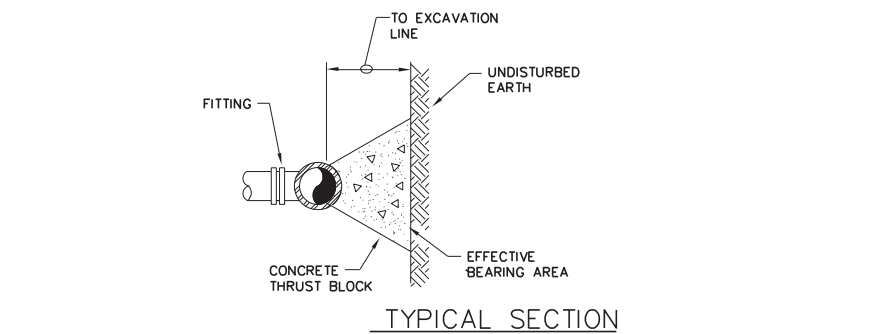


VERTICAL ANCHOR BLOCK

Mukilteo Water and Wastewater
District
STANDARD DETAILS

2018

W-D14



EFFECTIVE BEARING AREA REQUIRED

PIPE SIZE	90°EL	45° EL	22 1/2° EL	11 1/4° EL	TEE
8"	7 SQ. FT.	4 SQ. FT.	2 SQ. FT.	2 SQ. FT.	5 SQ. FT.
12"	16 SQ. FT.	9 SQ. FT.	4 SQ. FT.	3 SQ. FT.	11 SQ. FT.
16"	28 SQ. FT.	15 SQ. FT.	8 SQ. FT.	5 SQ. FT.	20 SQ. FT.

TYPICAL FOR SANDY SOIL WITH 2,000 P.S.F. BEARING STRENGTH & 200 P.S.I. PRESSURE. IF PRESSURE IS GREATER OR SOIL BEARING IS LESS, THE THRUST BLOCK SIZE SHALL BE INCREASED.

NOTES:

- BLOCKING SHALL BE TO SOLID BEARING SURFACE.
- ALL FITTINGS SHALL BE COVERED WITH 4 MIL VISQUEEN BEFORE CONCRETE IS POURED.
- CONCRETE BLOCKING SHALL BE 2000 PSI MINIMUM CONCRETE POURED IN PLACE. ALL BLOCKS ON TEES SHALL BE SEPARATED FOR DIRECTION OF THRUST.
- THIS TABLE REPRESENTS THE "MINIMUM" CONSTRUCTION STANDARDS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE SIZE OF ALL THRUST BLOCKS BASED ON EXISTING AND LOCAL CONDITIONS.

THRUST BLOCKING

Mukilteo Water and Wastewater
District
STANDARD DETAILS

8/09

W-D15

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

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JACOBS



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

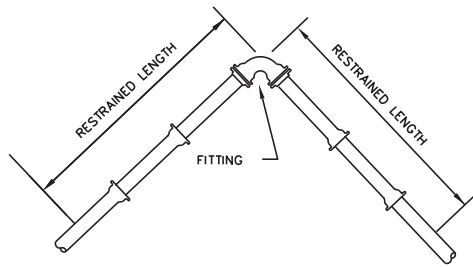
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

MWWD WATER STANDARD DETAILS

C08.34

SHEET
213
OF
1521
SHEETS

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DESIGNED BY: E. BRODAHL	8/22/2018				REGION NO. STATE
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MAR PROJ ENGR: C. TORRES					CONTRACT NO. 00*****
DIR TERM ENGR: N. MCINTOSH					
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PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	TEE OR DEAD END CAP
	RESTRAINED LENGTH IN FEET				
4"	32	14	7	3	26
6"	44	19	9	5	32
8"	58	24	12	6	43
10"	70	29	14	7	54
12"	82	34	16	8	66
16"	106	44	21	11	88
18"	116	48	23	12	100

NOTES:

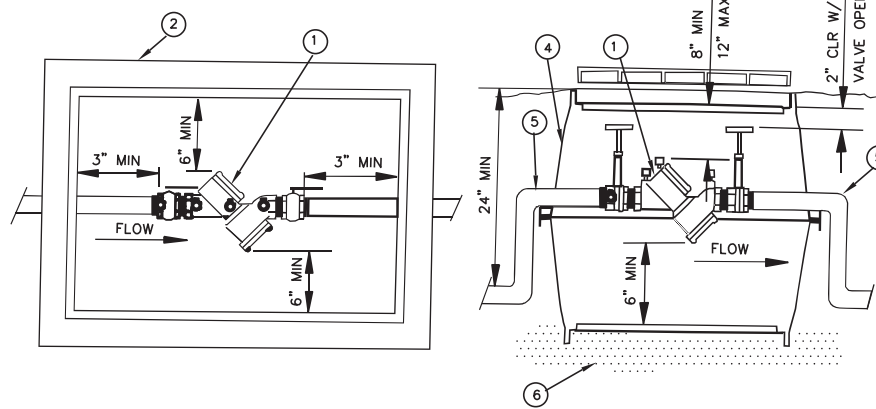
- RESTRAINED LENGTHS SHOWN ARE MINIMUM AND FOR LINEAL FEET REQUIRED ON EACH SIDE OF FITTING INDICATED.
- FOOTAGES ARE BASED ON 200 PSI PRESSURE AND 42 INCHES COVER. IF PRESSURE IS GREATER OR COVER IS LESS, THE RESTRAINED LENGTH SHALL BE INCREASED.
- THIS TABLE REPRESENTS THE "MINIMUM" CONSTRUCTION STANDARDS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE LENGTH OF ALL RESTRAINED JOINT BASED ON EXISTING AND LOCAL CONDITIONS.

THRUST RESTRAINT FOR
DUCTILE IRON PIPE

Mukilteo Water and Wastewater
District
STANDARD DETAILS

8/09

W-D16



PLAN

ELEVATION

LEGEND

- STATE APPROVED DOUBLE CHECK VALVE ASSEMBLY
- IN NON-TRAFFIC AREAS USE:
PRECAST CONCRETE VAULT (UTILITY VAULT CO 233-LA, OR APPROVED EQUAL) OR
PLASTIC VALVE BOX (UTILITY VAULT CO 1324-12L OR APPROVED EQUAL)
IN TRAFFIC AREAS:
A TRAFFIC LOADED BOX MUST BE USED AND LOCATION APPROVED BY THE DISTRICT
PRIOR TO INSTALLATION.
- ALL ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF HEALTH REQUIREMENTS.
- A DAYLIGHT DRAIN SHALL BE PROVIDED THERE MUST BE A 4" MIN LAYER OF FREE DRAINING GRAVEL AT THE BOTTOM OF BOX.
- ANGLES MAY BE IN OR OUT OF BOX SO LONG AS SUFFICIENT ROOM IS ALLOWED AT EACH END FOR VALVE OPERATOR AND DCVA REPAIR OR MAINTENANCE.
- PROVIDE FREE DRAINING SOIL.

NOTES

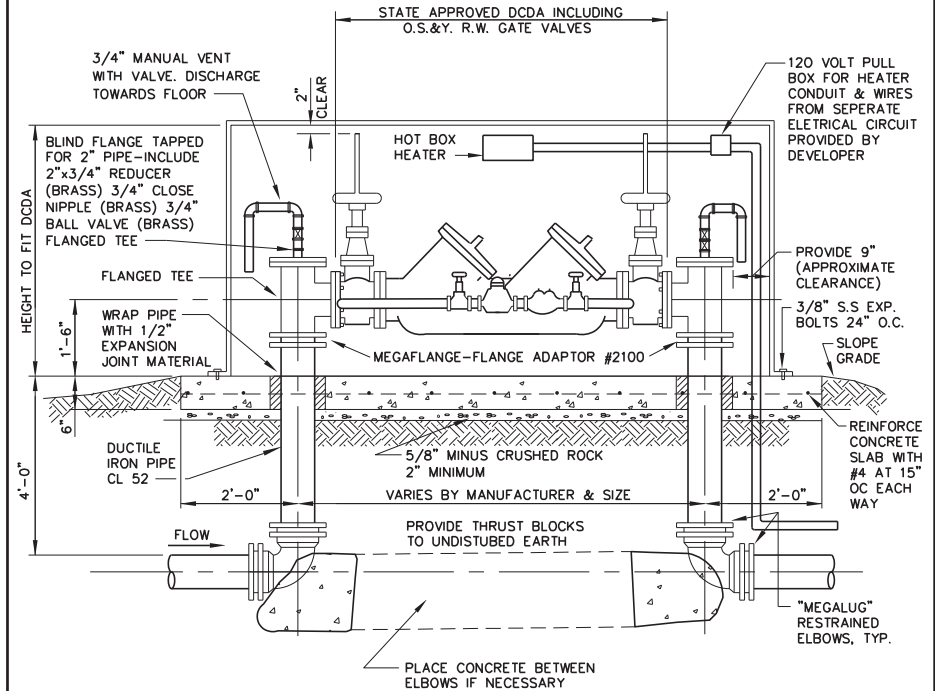
- ALL TEST COCKS MUST HAVE BRASS PLUGS.
- TEST COCKS MUST FACE UP OR SIDEWAYS WHICH EVER IS MORE ACCESSIBLE

DOUBLE CHECK VALVE ASSEMBLY
FOR 2" & SMALLER SERVICE

Mukilteo Water and Wastewater
District
STANDARD DETAILS

8/09

W-D17



NOTES:

- INSTALLATION OF HOT BOX SUBJECT TO APPROVAL OF DISTRICT AS AN ALTERNATE TO VAULTS.
- ALUMINUM "HOT BOX" MODELS 4 THROUGH 10 FOR RESPECTIVE SIZE DCDA SHALL BE MODIFIED TO FIT ABOVE HEIGHT REQUIREMENTS. VALVE STEM SHALL NOT BE ALLOWED TO EXTEND OUTSIDE OF BOX.
- HEATERS SHALL BE 2,000 WATT FOR 6" AND 8" SIZE; 3,000 WATT FOR 10" OR LARGER.
- PROVIDE SPECIAL LOCK FOR 2 PADLOCKS.
- CONCRETE TO BE 2500 PSI MIX WITH AIR ENTRAINMENT.
- 5/8"x3/4" BADGER RECORDALL DISC METER M25, 7-1/2" LAY LENGTH, LEAD-FREE BRONZE ALLOY HOUSING AND BOTTOM, HR-E ENCODER WITH ORION CE TRANSMITTER. FACTORY PROGRAMMED FOR GALLONS. MOUNT IN DISTRICT APPROVED LOCATION.

DOUBLE CHECK DETECTOR
HOT BOX ENCLOSURE

Mukilteo Water and Wastewater
District
STANDARD DETAILS

2018

W-D18

NOTES:

- BASE SHALL BE GRAVEL BACKFILL FOR FOUNDATION, CLASS A.

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

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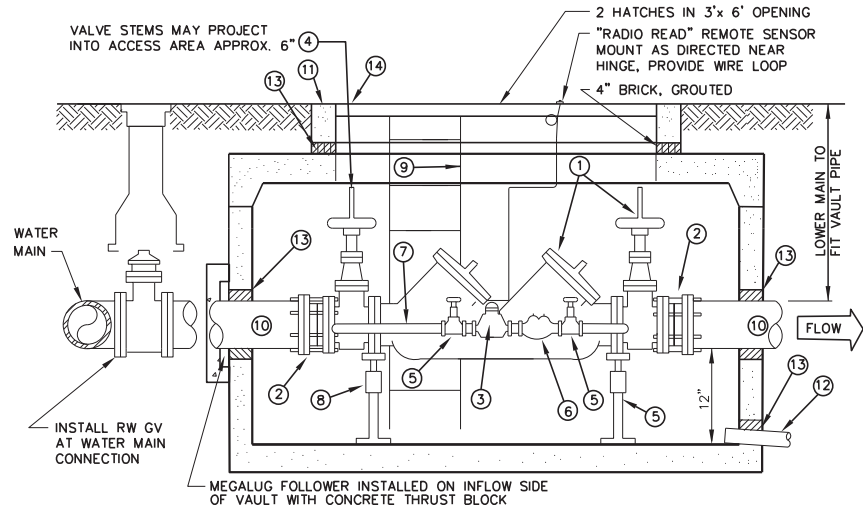
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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
MWD WATER STANDARD DETAILS

C08.35
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214
OF
1521
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DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00*****
	REVISION	DATE	BY		



NO.	DESCRIPTION
1	STATE APPROVED DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTION ASSEMBLY WITH O.S.&Y. R.W. GATE VALVE
2	ROMAC STYLE 'FCA 501' FLANGED COUPLING ADAPTER
3	5/8" x 3/4" NEPTUNE T-10 METER WITH NEPTUNE PRO-READ SENSOR MOUNTED ON VAULT SURFACE OR HATCH: 6 WHEEL READING IN GALLONS.
4	LOCATE CENTER OF VALVE 15" FROM CENTER OF VAULT TO ALLOW STEMS TO EXTEND INTO ACCESS OPENING WHEN APPLICABLE
5	3/4" SHUTOFF VALVE; BRASS GATE VALVE
6	STATE APPROVED 3/4" DOUBLE CHECK VALVE ASSEMBLY (DCVA)
7	BRASS OR TYPE K COPPER, DETECTOR CHECK PIPING (BY PASS LINE)
8	2 EA. GALVANIZED ADJUSTABLE STANCHIONS (LOCATE AT ENDS OF DOUBLE CHECK ASSEMBLY)
9	GALVANIZED STEEL LADDER, LOCATE AS DIRECTED BY DISTRICT, SECURE TO VAULT.
10	PIPE SPOOL, CL. 52 D.I., PLAIN END
11	"UTILITY VAULT" OR APPROVED EQUAL WITH 4" BRICK AND ADJUSTABLE COVER; 2 ACCESS HATCHES: EXCEPT 3 HATCHES FOR 10" DCDA, LW PRODUCTS OR EQUAL, H-20 LOADING 4" DCDA, USE 575 LA + 57 AT (4'-2" x 6'-6" x 4'-0" INSIDE) 6" DCDA, 4484 LA + 57 AT (4'-4" x 8'-4" x 6'-2" INSIDE) 6" DCDA, 5106 LA + 57 AT (5'-0" x 10'-6" x 4'-4" INSIDE) 8" DCDA, 5106 LA + 57 AT (5'-0" x 10'-6" x 6'-2" OR 4'-4" INSIDE) 10" DCDA, 5106 LA + 5106 AT (3 HATCH) (5'-0" x 10'-6" x 6'-2" OR 4'-4")
12	6" PVC DRAIN, DISCHARGE TO DAYLIGHT OR TO CATCH BASIN. MINIMUM SLOPE UNLESS OTHERWISE APPROVED. ADD SCREENS AT BOTH ENDS.
13	WATERTIGHT GROUT, INLET AND OUTLET PIPE, DRAIN PIPE AND BRICK ACCESS OPENING
14	SIGN READING "DANGER-PERMIT REQUIRED-CONFINED SPACE, DO NOT ENTER"

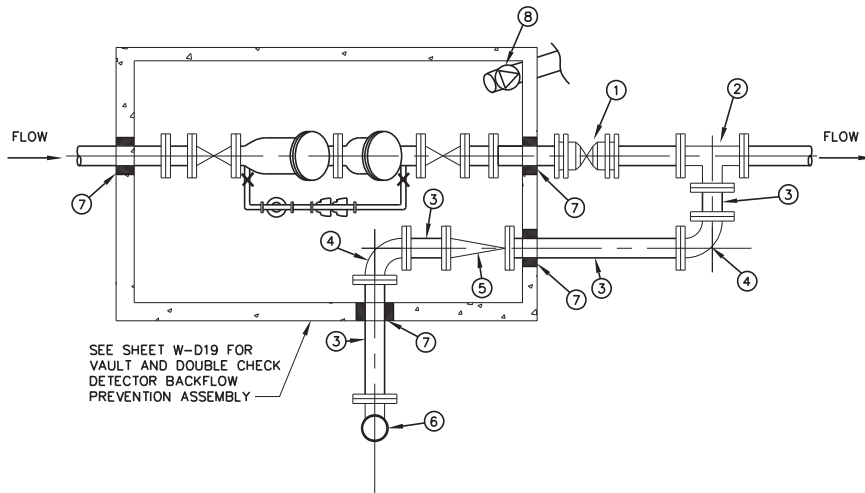
NOTE:
AFTER PRESSURE TEST AND PURITY SAMPLES ARE RECEIVED, A CERTIFIED BACKFLOW ASSEMBLY TESTER SHALL SUPPLY DISTRICT WITH A WRITTEN TEST REPORT ON EACH BACKFLOW ASSEMBLY.

DOUBLE CHECK DETECTOR BACKFLOW PREVENTION ASSY.

Mukilteo Water and Wastewater District
STANDARD DETAILS

2018

W-D19



NO.	DESCRIPTION
1	POST INDICATOR VALVE, MJ WITH MEGALUGS
2	MAIN LINE SIZE X 4" TEE, MJ WITH MEGALUGS
3	4" DUCTILE IRON PIPE, CLASS 52*
4	4" x 90' BENDS, MJ WITH MEGALUGS
5	4" FLAPPER CHECK VALVE WITH BALL CHECK DRAIN VALVE, (IF ALTERNATE LOCATION IS REQUIRED, THE LOCATION WILL BE DETERMINED BY THE DISTRICT), MJ WITH MEGALUGS
6	FIRE DEPARTMENT CONNECTION, STORZ ADAPTER. CONNECTION TO COMPLY WITH FIRE DEPARTMENT REQUIREMENTS. 4" MUKILTEO & DIST. #1, 5" ELSEWHERE. ALL ABOVE GROUND PIPING TO BE PAINTED SAME COLOR RED AS P.I.V.
7	WATERTIGHT GROUT
8	6" PVC DRAIN TO DAYLIGHT OR CB, MINIMUM SLOPE 1%. SCREEN AT BOTH ENDS W/BACKWATER VALVE IN VAULT

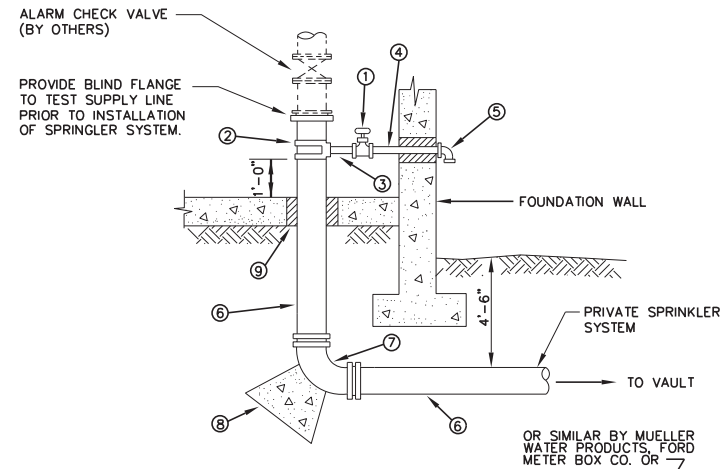
* 4" DIAMETER AND SMALLER DUCTILE IRON PIPE SHALL BE CLASS 53 IF USED IN A THREADED APPLICATION.

FIRE LINE CONNECTION

Mukilteo Water and Wastewater District
STANDARD DETAILS

2018

W-D20



No.	DESCRIPTION
1	2" RWGV OR BRONZE BALL VALVE
2	ROMAC STYLE 202S STAINLESS STEEL DOUBLE STRAP SADDLE (APPROVED EQUAL)
3	2" BRASS NIPPLE
4	2" GALVANIZED NIPPLE
5	2" GALVANIZED 90° EL
6	D.I. CL. 52 SUPPLY MAIN (SIZE AS DETERMINED BY FIRE FLOW REQUIREMENTS).
7	90° BEND (MJ x MJ) WITH MEGALUG
8	CONCRETE THRUST BLOCK (SIZE TO BE APPROVED BY DISTRICT)
9	1/2" EXPANSION JOINT

NOTE

AFTER SYSTEM IS PRESSURE TESTED, PURITY SAMPLES SHALL BE TAKEN AT ALL RISERS IN SYSTEM.

4" DIAMETER AND SMALL DUCTILE IRON PIPE SHALL BE CLASS 53 IF USED IN A THREADED APPLICATION.

FIRE LINE RISER DETAIL

Mukilteo Water and Wastewater District
STANDARD DETAILS

8/09

W-D21

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

MWWD WATER STANDARD DETAILS

C08.36

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1521
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8/22/2018

8/22/2018

8/22/2018

FED.AID

PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

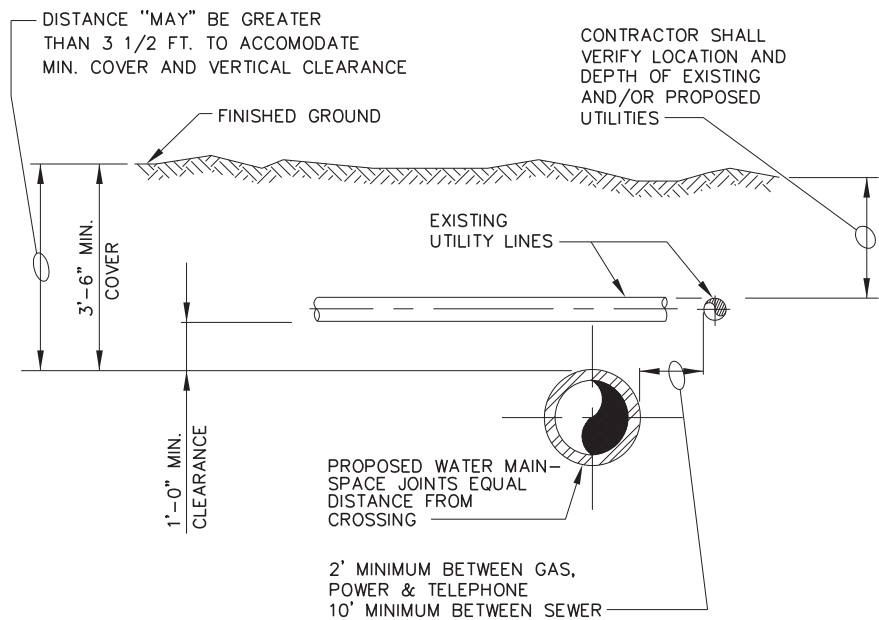
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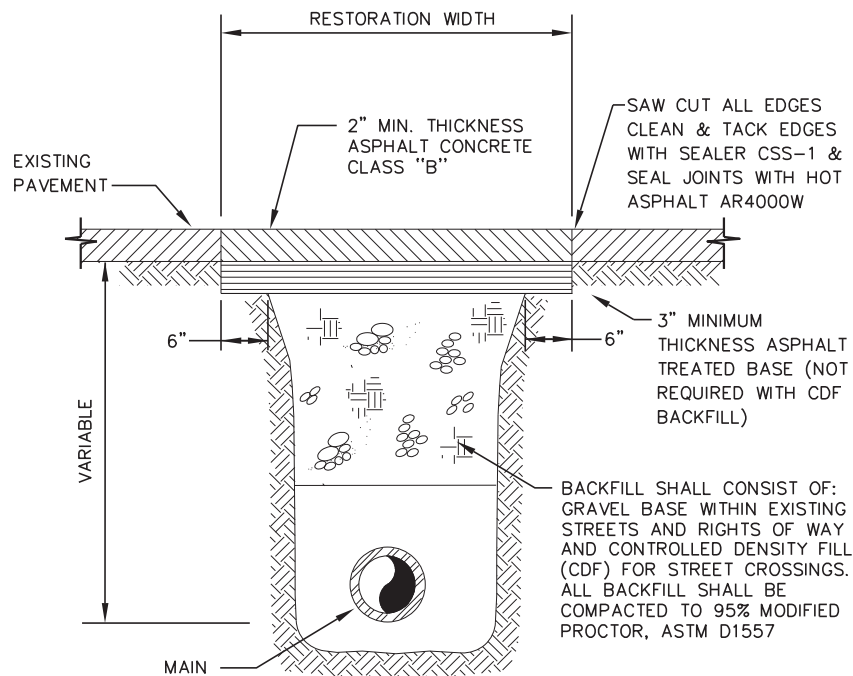
NOTES:
MINIMUM COVER SHOWN IS FOR 8" DIMATER PIPE.
SEE W-D1 FOR MINIMUM COVER FOR ALL PIPES.

TYPICAL UTILITY CROSSING

Mukilteo Water and Wastewater
District
STANDARD DETAILS

2018

W-D22



NOTES:

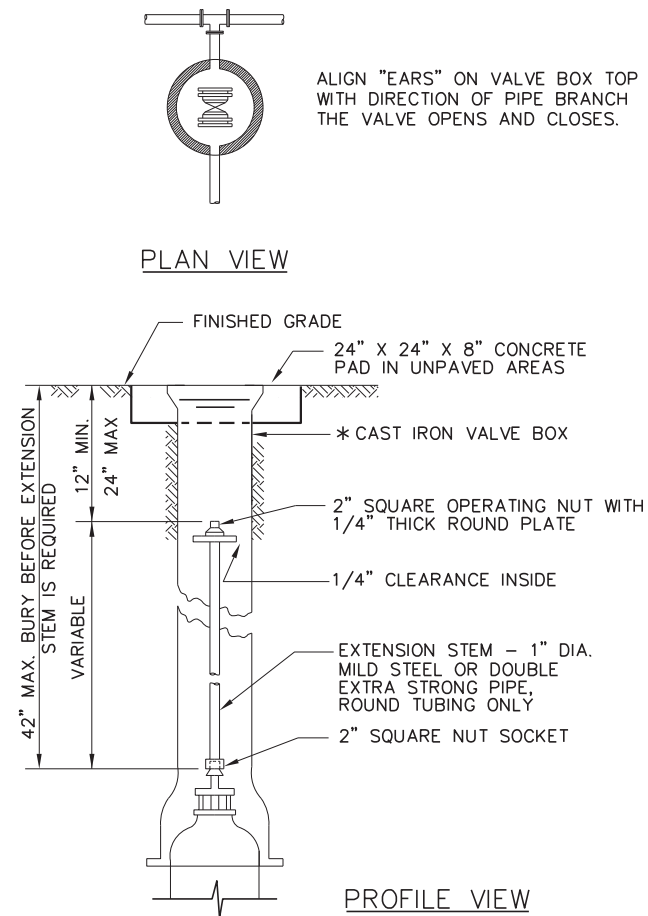
1. ALL ASPHALT STREETS AND DRIVEWAYS SHALL BE TEMPORARILY REPAIRED WITH COLD MIX, EXCEPT CROSSINGS WITH CDF SHALL BE COVERED WITH STEEL PLATES UNTIL THE CDF HAS CURED TO ALLOW FOR PLACEMENT OF THE ASPHALT.
2. PATCH SHALL BE MACHINE ROLLED FLUSH WITH EXISTING PAVEMENT AND SHALL BE PLACED PER SEC. 5-04 OF THE WA. STATE D.O.T. SPECIFICATIONS.

ASPHALT PAVEMENT
REPAIR

Mukilteo Water and Wastewater
District
STANDARD DETAILS

2018

W-D23



*CAST IRON VALVE BOX EXTENSION SHALL UTILIZE
5" CAST IRON "SOIL PIPE". BELL END TO BE
PLACED OVER TOP OF VALVE BOX BOTTOM.

VALVE STEM EXTENSION

Mukilteo Water and Wastewater
District
STANDARD DETAILS

8/09

W-D24

JACOBS



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
MWWD WATER STANDARD DETAILS

C08.37

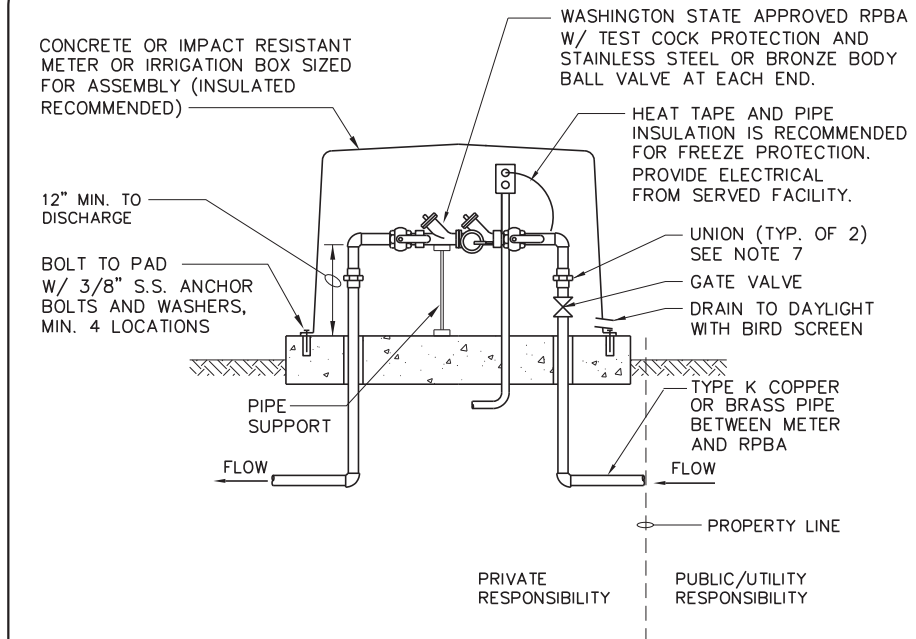
SHEET
216
OF
1521
SHEETS

APPROVAL BLOCK

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Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
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	REVISION	DATE	BY		



NOTES:

1. BACKFLOW ASSEMBLY SHALL BE SELECTED FROM WASHINGTON STATE DEPARTMENT OF HEALTH CURRENT APPROVED LIST.
2. CONCRETE TO BE 2500 PSI MIX WITH AIR ENTRAINMENT.
3. COMPLETE ALL WORK IN ACCORDANCE WITH STATE, DISTRICT AND MANUFACTURER STANDARDS.
4. SYSTEM SHALL NOT BE PUT INTO SERVICE UNTIL RPBA IS APPROVED BY THE DISTRICT AND TESTED/CERTIFIED BY A WASHINGTON STATE LICENSED TESTER.
5. RPBA IS CONSIDERED PART OF THE PRIVATE SYSTEM AND SHALL BE MAINTAINED BY THE PROPERTY OWNER WITH ANNUAL CERTIFICATION REQUIRED.
6. PRESSURE TEST AND DISINFECT PER A.W.W.A. STANDARDS.
7. DIELECTRIC UNIONS SHALL BE USED TO SEPARATE DISSIMILAR MATERIALS.
8. RPBA BOX SHALL BE LOCATED IMMEDIATELY DOWNSTREAM OF WATER SERVICE BOX PRIOR TO ANY BRANCH CONNECTIONS WITH NO MORE THAN 1'-2' BETWEEN BOXES.

REDUCED PRESSURE BACKFLOW ASSEMBLY – 3/4" TO 2"

Mukilteo Water and Wastewater District
STANDARD DETAILS

8/09

W-D26

APPROVAL BLOCK

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Mukilteo Water and Wastewater District Extension No. _____
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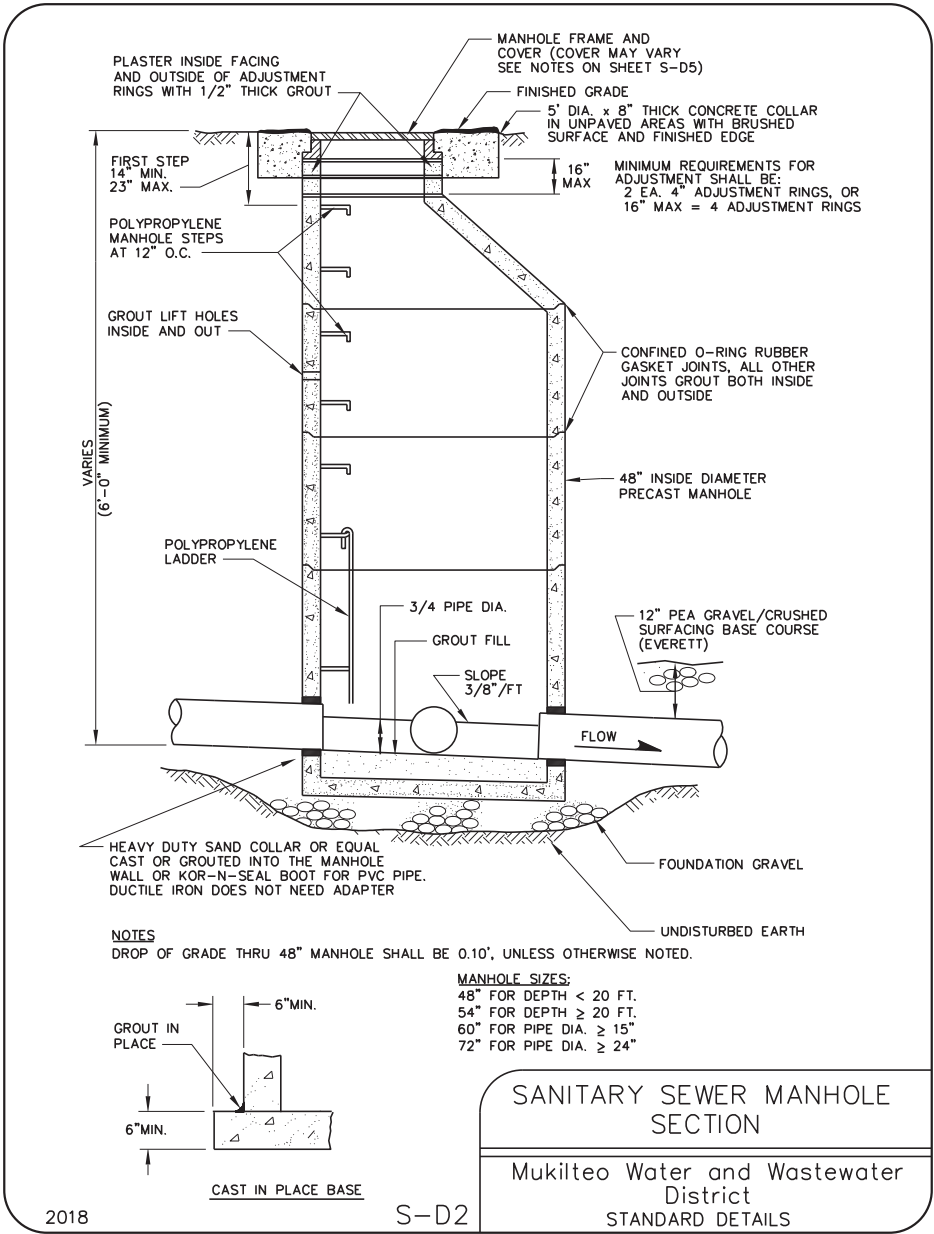
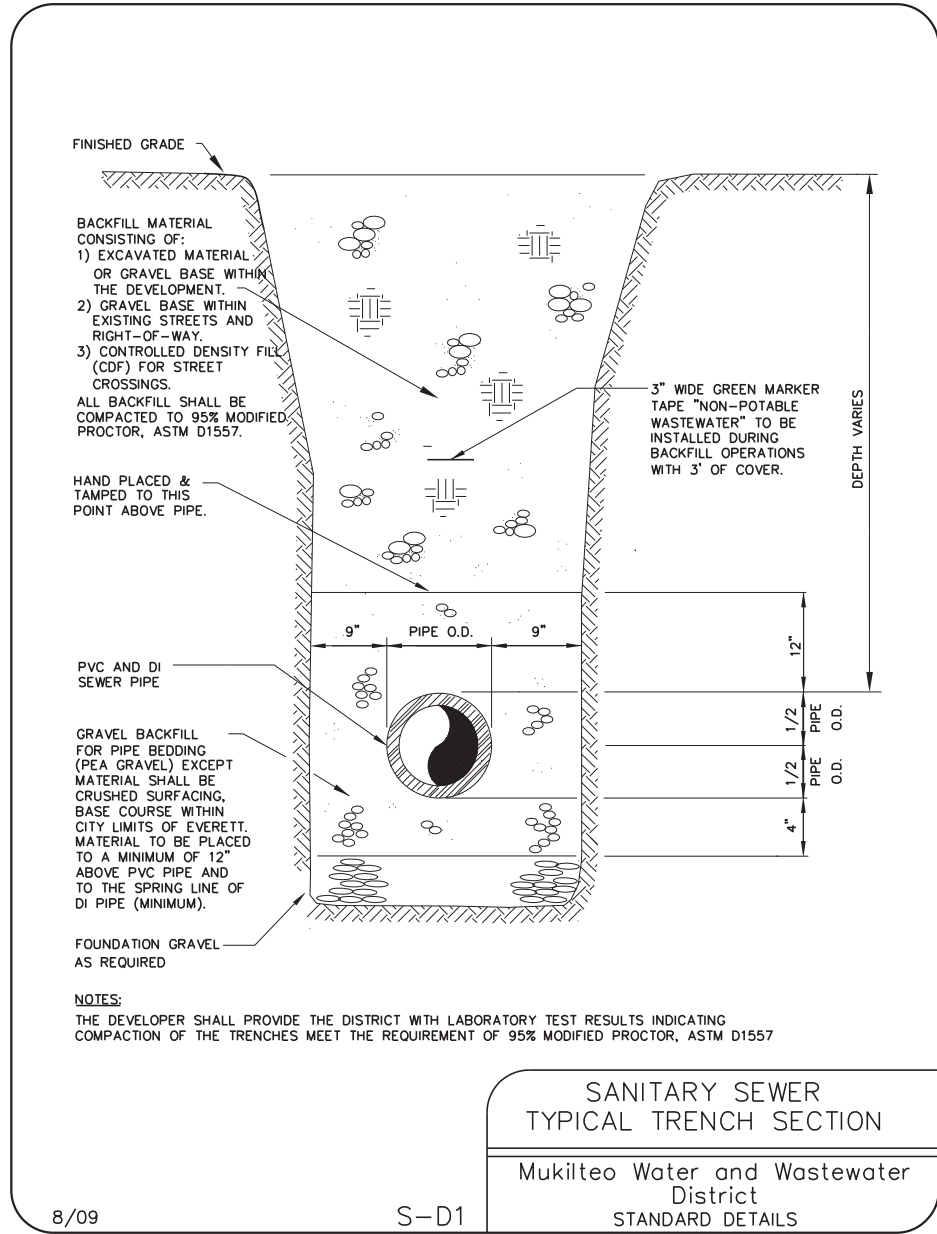
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

MWWD WATER STANDARD DETAILS

C08.38

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ASST SECRETARY: A. SCARTON					00*****
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SR 525
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MWWD SANITARY SEWER
STANDARD DETAILS

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218
OF
1521
SHEETS

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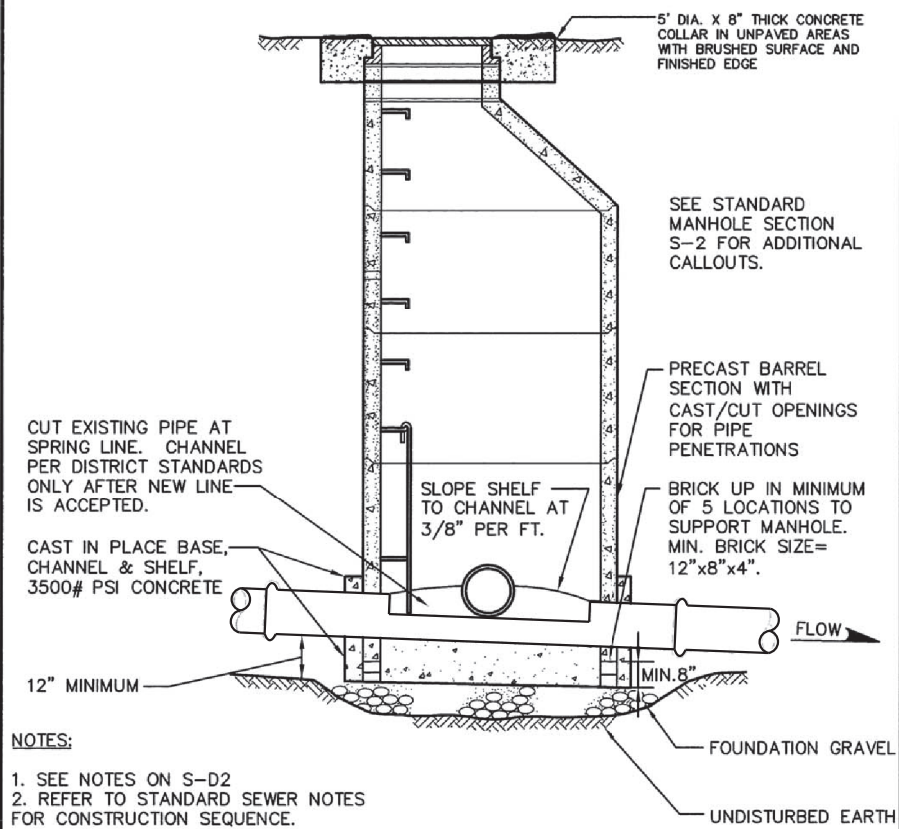
Mukilteo Water and Wastewater

Mukilteo Water and Wastewater District Extension No. _____

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2018

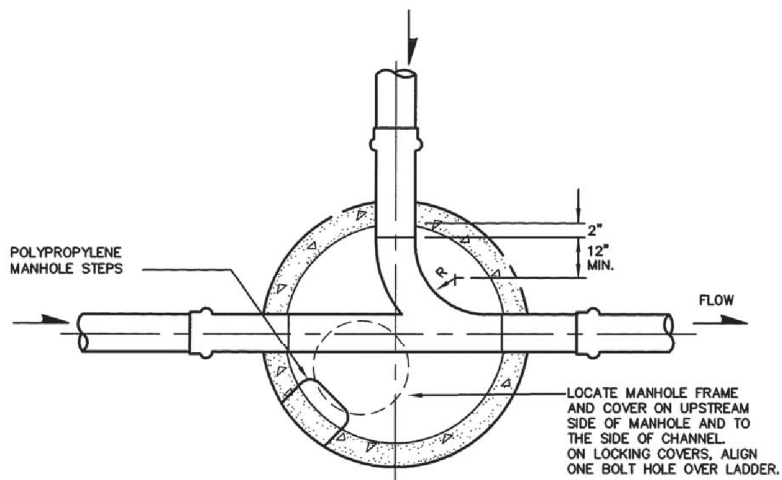


**SANITARY SEWER SADDLE
MANHOLE**

Mukilteo Water and Wastewater
District
STANDARD DETAILS

S-D3

2018



NOTES:
MANHOLE FRAME & LOCKING COVER

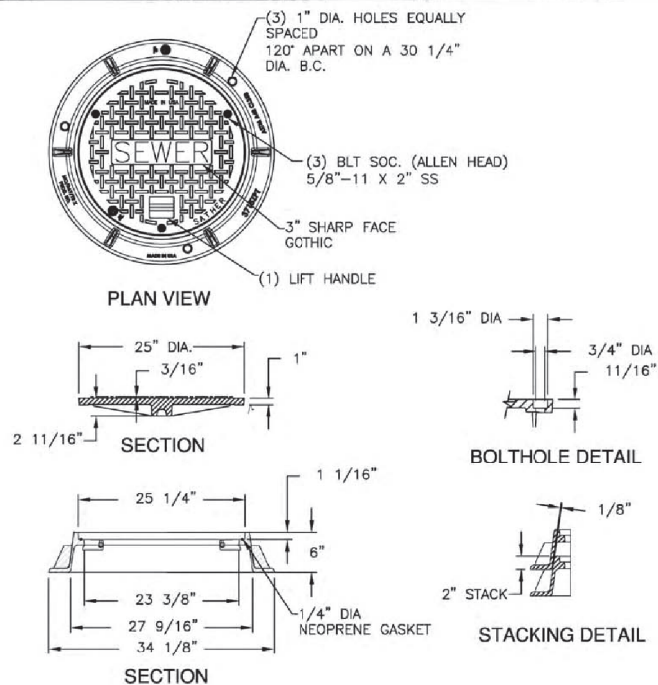
- COVER SHALL HAVE THE WORD "SEWER" CAST WITH 2" HIGH LETTERS AND RAISED 3/8".
- TOTAL WEIGHT OF FRAME & COVER SHALL BE 360 LBS. MIN.
- DUCTILE IRON FRAME & COVER SHALL BE A.P.W.A. PLAN NO. 42.
- NON-SKID PATTERN TO BE CAST INTEGRAL ON TOP OF COVER.
- COVER SHALL BE PROVIDED WITH 3 EACH HOLES FOR LOCK DOWN PURPOSES.
- PROVIDE 3 EACH 5/8", 11 N.C. SOCKET HEAD STAINLESS STEEL SCREWS, 3 5/8" LONG.
- ALL HOLES FOR LOCKING COVER SHALL BE IN ALIGNMENT AND INTERCHANGEABLE.
- FRAME AND COVER POSITIONED SO ONE OF THE LOCKING BOLTS IS CENTERED OVER THE STEPS.
- DISTRICT APPROVED WATERTIGHT MANHOLE COVER REQUIRED.

**SANITARY SEWER MANHOLE
PLAN**

Mukilteo Water and Wastewater
District
STANDARD DETAILS

S-D4

2018



NOTES

- MATERIALS ARE DUCTILE IRON COVER ASTM A536, AND GRAY IRON FRAME ASTM A48 CL35B PRODUCT# 3715ZPT.
 - MANUFACTURED IN THE USA BY EAST JORDAN IRON WORKS MANUFACTURING CO. HEAVY DUTY MANHOLE ASSEMBLY (H20 AND HS20 LOADINGS) OR APPROVED EQUAL.
 - MANHOLES LOCATED WITHIN NON-PAVED AREAS SHALL REQUIRE THE INSTALLATION OF GREEN FIBERGLASS MARKER POSTS 5' IN LENGTH WITH DECAL STATING "CAUTION SEWER PIPELINE". THE BURIED END SHALL BE "BARBED" OR AN ANCHOR KIT SHALL BE USED. INSTALL A CONCRETE COLLAR, 5' DIAMETER, 8" THICK UNLESS OTHERWISE DIRECTED BY THE DISTRICT.
 - 3/4" STRIP OF CONSEAL CD-101 MANHOLE RING AND COVER SEALANT REQUIRED BETWEEN COVER AND FRAME WHERE MANHOLE IS SUSCEPTIBLE TO INUNDATION OR THERE IS THE POTENTIAL FOR EXCESSIVE ODORS OR AS DIRECTED BY THE DISTRICT.
 - IN SIDEWALKS, RAMPS OR CROSSWALKS USE LID COMPLIANT TO AMERICANS WITH DISABILITIES ACT REQUIREMENTS.
 - SEE DETAIL S-D7 FOR ADJUSTMENT DETAILS.
- MANUFACTURED IN THE USA BY EJ AMERICAS OR OLYMPIC FOUNDRY, NEENAH FOUNDRY, HEAVY DUTY MANHOLE ASSEMBLY (H20 AND HS20 LOADINGS) OR APPROVED EQUAL.

MANHOLE FRAME AND COVER

Mukilteo Water and Wastewater
District
STANDARD DETAILS

S-D5

APPROVAL BLOCK

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**Washington State
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WASHINGTON STATE FERRIES

**SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION**
**MWWD SANITARY SEWER
STANDARD DETAILS**

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ASST SECRETARY: A. SCARTON

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REGION NO. STATE

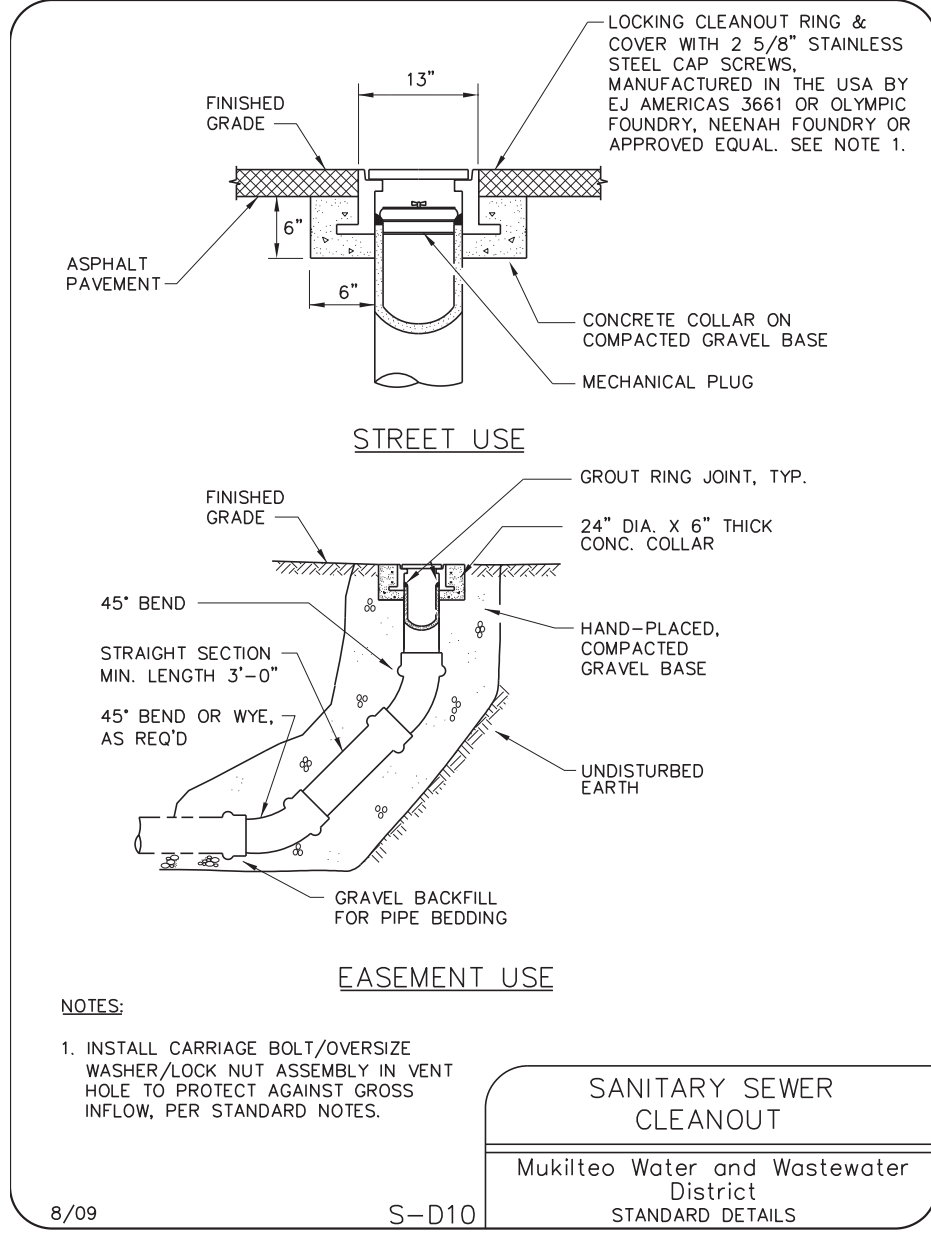
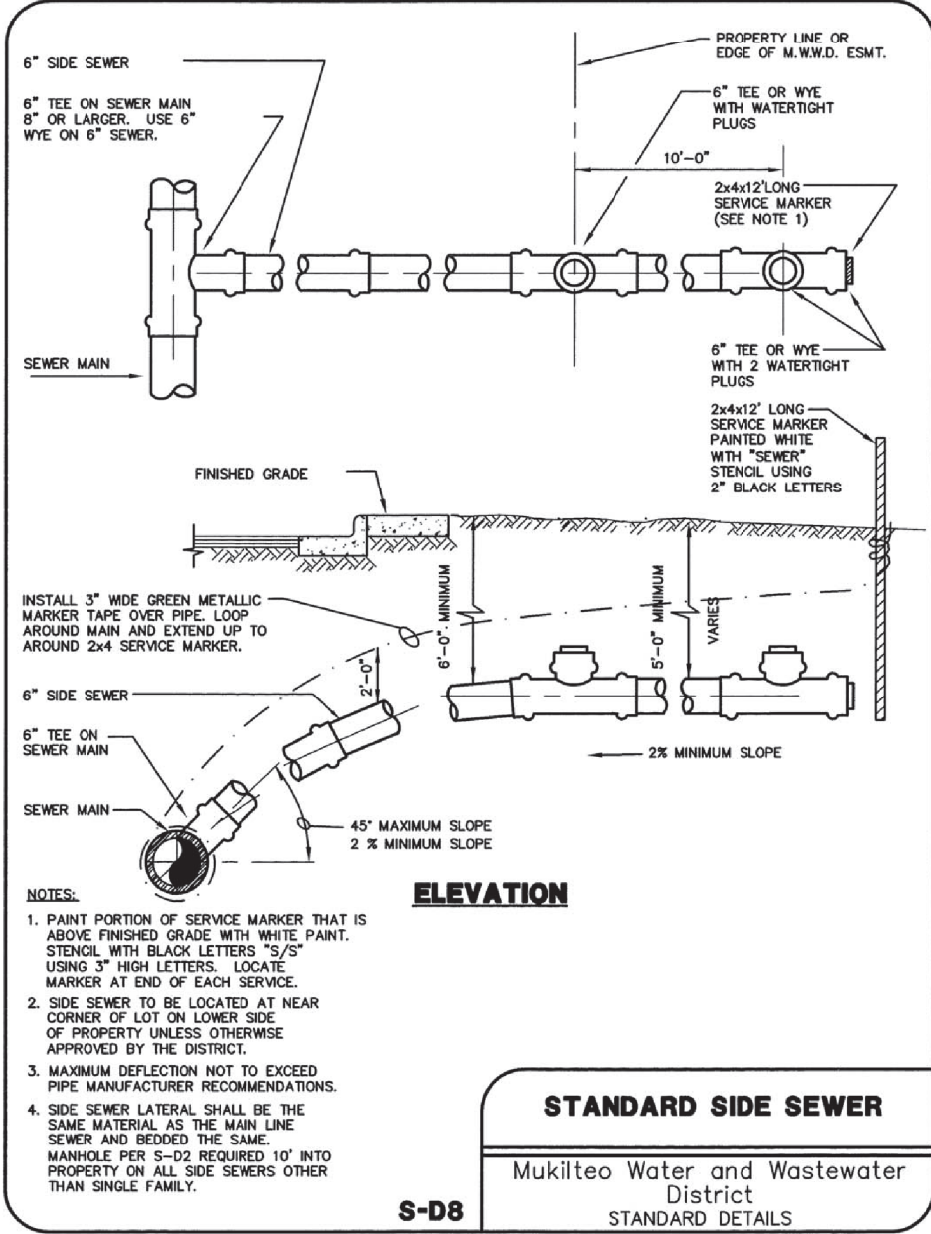
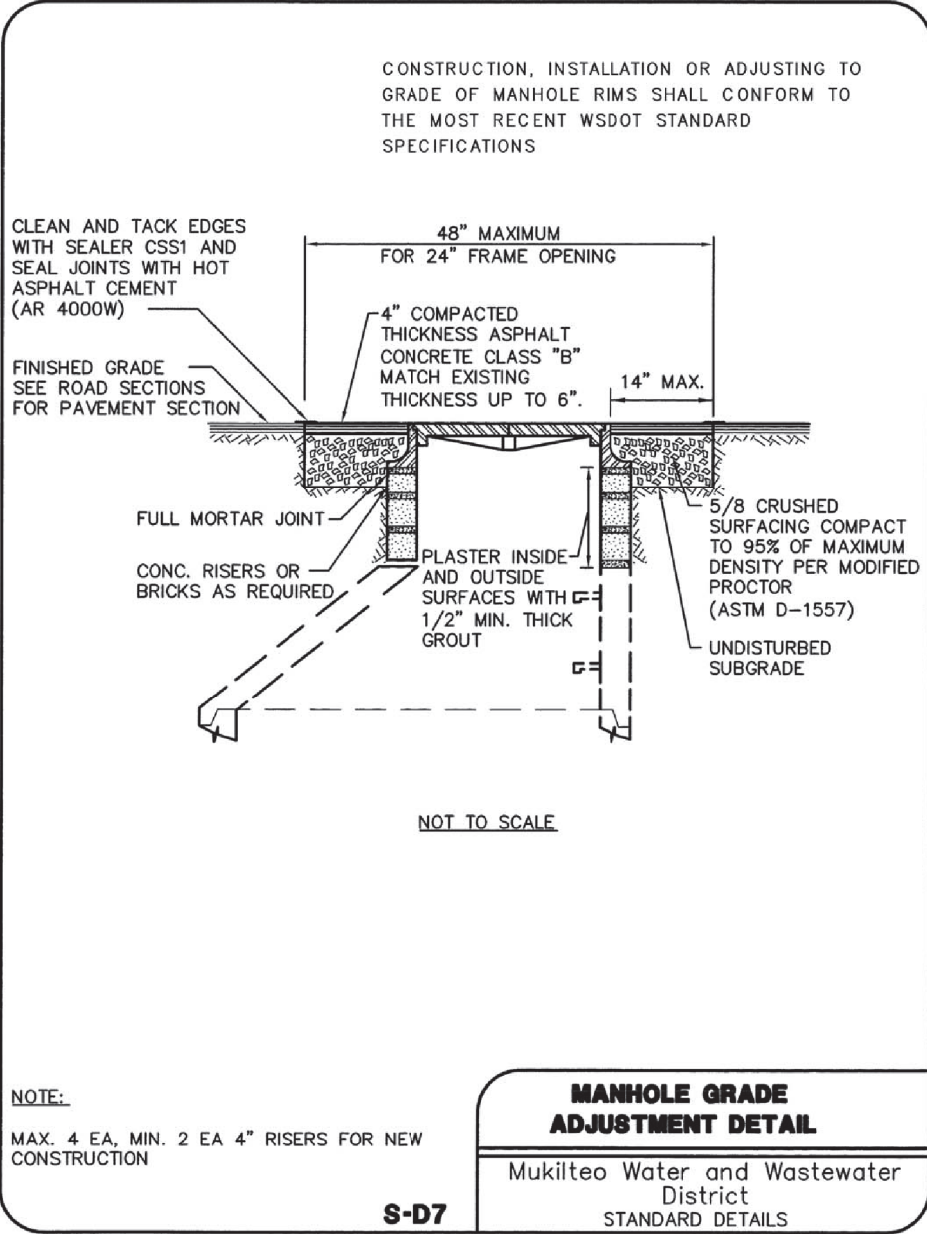
10 WASH

JOB NUMBER

18W121

CONTRACT NO.

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DESIGNED BY: E. BRODAHL	8/22/2018			REGION NO. STATE
ENTERED BY: R. REISER	8/22/2018			10 WASH
CHECKED BY: P. SACK	8/22/2018			JOB NUMBER 18W121
MAR PROJ ENGR: C. TORRES				CONTRACT NO. 00*****
DIR TERM ENGR: N. MCINTOSH				
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY

JACOBS



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
MWWD SANITARY SEWER
STANDARD DETAILS

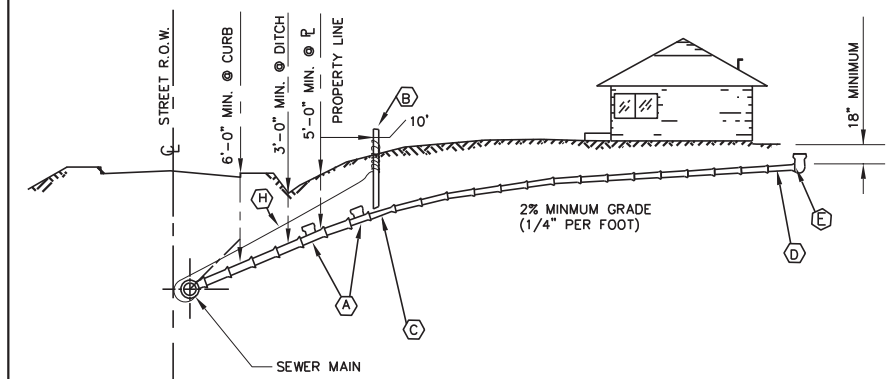
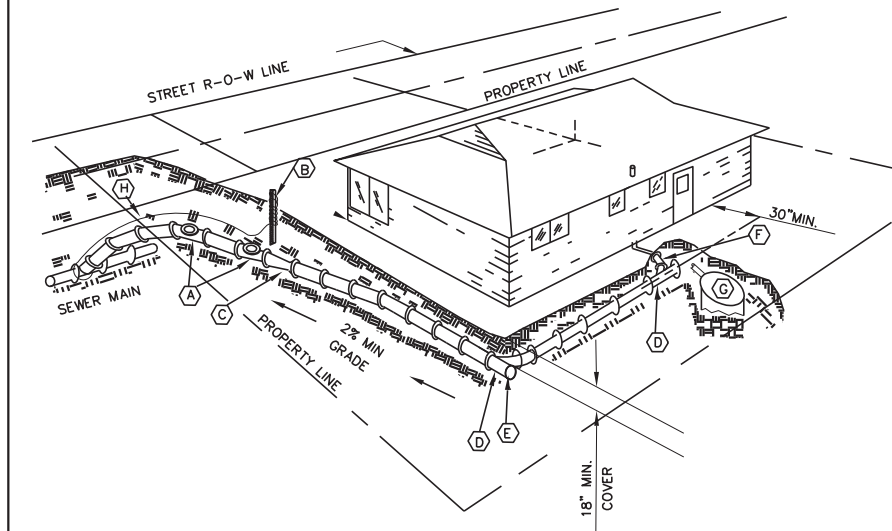
C08.42
SHEET
220
OF
1521
SHEETS

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater

Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review, and revision due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer is available only after payment of all current fees, recording of easements and transfer of ownership to the district.



NOTE:
CLEAN OUT (D) SHALL BE 36" TO 48"
FROM FOUNDATION WALL

TYPICAL SIDE SEWER
CONNECTION

Mukilteo Water and Wastewater
District
STANDARD DETAILS

8/09

S-D14

- A. INSPECTION TEE
B. 2 X 4 SERVICE MARKER
C. APPROVED 6" X 4" REDUCER (SINGLE FAMILY RESIDENCE ONLY)
D. WYE (CLEANOUT) AND 45 DEGREE BEND
E. CLEANOUT WITH APPROVED PLUG. CLEANOUT SHALL BE BROUGHT TO WITHIN 18" OF SURFACE IN UNPAVED AREA OR BROUGHT TO SURFACE IN PAVED AREA WITH CAST-IRON COVER.
F. 45 DEGREE BEND. CONNECT HOUSE SEWER PIPE TO SIDE SEWER WITH APPROVED ADAPTER.
G. EXISTING SEPTIC TANK - CUT AND PLUG INLET LINE, PUMP TANK DRY AND FILL TANK WITH SUITABLE MATERIAL.
H. FURNISH AND INSTALL 3" WIDE GREEN METALLIC MARKER TAPE AT 2' OVER PIPE. LOOP AROUND MAIN AND EXTEND UP TO AND AROUND 2"x4" SERVICE MARKER.

GENERAL NOTES

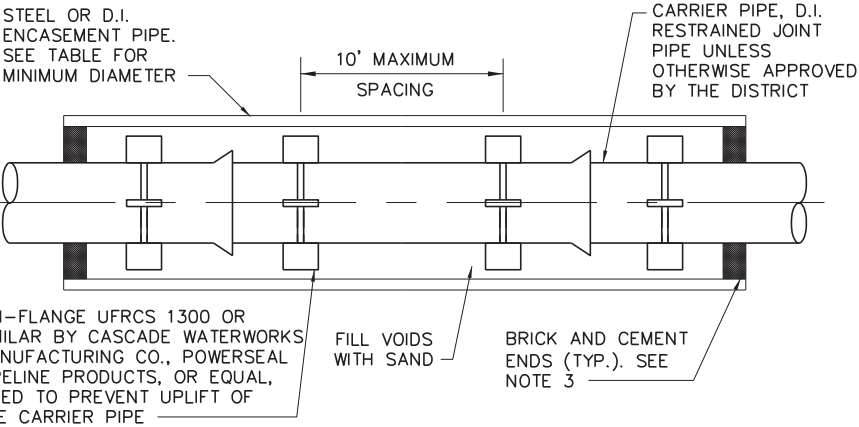
- SIDE SEWER PIPE SHALL BE 4" OR LARGER FOR SERVICING SINGLE FAMILY AND 6" FOR SERVICING MULTIPLE (DUPLEXES), COMMERCIAL ESTABLISHMENTS, SCHOOLS, OR ANY BUILDING OTHER THAN SINGLE FAMILY RESIDENCES. DUCTILE IRON OR PVC ASTM 3034, AND SHALL BE INSTALLED AT 2% MIN. GRADE (1/4" FALL PER FOOT). CONSTRUCTION ON PRIVATE PROPERTY MAY BE DONE BY OWNER BUT REQUIRES A PERMIT.
- ALL PIPE JOINTS SHALL BE RUBBER GASKET TYPE.
- ALL PIPE SHALL BE BEDDED AND ENCASED WITH CRUSHED SURFACING 1-1/4" BASE COURSE ROCK IN ACCORDANCE WITH SECTION 9-03-9(3) OF THE WSDOT STANDARD SPECIFICATIONS, UNLESS OTHERWISE APPROVED BY THE DISTRICT. BEDDING MATERIAL SHALL BE INSTALLED WITH A MINIMUM OF 3" BELOW THE BOTTOM OF THE PIPE TO 6" ABOVE THE TOP OF THE PIPE UNLESS OTHERWISE APPROVED BY THE DISTRICT. BEDDING WITH SAND OR PEA GRAVEL WILL NOT BE ACCEPTED
- ON PRIVATE PROPERTY MIN. COVER SHALL BE 18" OVER TOP OF PIPE AT 30" DISTANCE FROM BUILDING.
- PARALLEL WATER AND SEWER LINES SHALL BE 10' APART HORIZONTALLY WHEREVER POSSIBLE.
- CLEANOUTS AT STRUCTURE CONNECTION SHALL BE 30" FROM STRUCTURE WALL UNLESS APPROVED BY THE DISTRICT.
- CLEANOUTS ARE REQUIRED FOR 45° BEND OR ANY COMBINATION OF BENDS EQUAL TO 45° OR GREATER. DISTANCE BETWEEN CLEANOUTS SHALL NOT EXCEED 100'. CLEANOUT SHALL BE A PLUGGED TEE OR A PLUGGED WYE LATERAL.
- 6" SEWER PIPE IS REQUIRED IN THE STREET RIGHT-OF-WAY AND SHALL HAVE A 2% MIN. GRADE. CONSTRUCTION IN STREET MUST BE DONE BY A STATE LICENSED SIDE SEWER CONTRACTOR AND REQUIRES A RIGHT OF WAY PERMIT FROM THE CITY OR COUNTY.
- SIDE SEWER SHALL BE INSPECTED BY THE DISTRICT PRIOR TO BACKFILLING. SIDE SEWER SHALL BE PLUGGED & TESTED IN PRESENCE OF DISTRICT INSPECTOR BY FILLING WITH WATER. LEAKAGE RATE SHALL NOT EXCEED 0.31 GAL/HR FOR 4" PIPE & 0.47 GAL/HR FOR 6" PIPE, PER 100' OF PIPE.
- THE OWNER AND/OR HIS/HER CONTRACTOR HEREBY AGREE TO SAFEGUARD THE WORK DONE UNDER THIS PERMIT IN SUCH A MANNER AS TO PREVENT INJURY AND/OR DAMAGE TO THE PUBLIC. SUCH PRECAUTIONS SHALL INCLUDE THE EMPLOYMENT OF ALL NECESSARY DITCH SAFEGUARDS SUCH AS LANTERNS, BARRICADES, A TRENCH BOX FOR ANY DITCH OVER 4' DEEP AND SAFE ACCESS OR EGRESS THROUGH THE WORKING AREA.
- BACK-WATER VALVES MAY BE REQUIRED IF DWELLING HAS POSSIBILITY OF SEWAGE BACKING UP INTO THE DWELLING.

SIDE SEWER
INFORMATION

Mukilteo Water and Wastewater
District
STANDARD DETAILS

8/09

S-D15



NOTE:
MINIMUM ENCASEMENT INSIDE DIAMETER (I.D.)
SHALL BE 24"

NOTES:

- CONTRACTOR TO VERIFY LINE AND GRADE PRIOR TO FILLING VOIDS WITH SAND.
- CARRIER PIPE WITHIN THE LENGTH OF THE ENCASEMENT PIPE SHALL HAVE RESTRAINED JOINTS.
- REGULATORY AGENCY REQUIREMENTS SHALL SUPERCEDE DISTRICT STANDARDS IF MORE STRINGENT.

ENCASEMENT/CARRIER PIPES

Mukilteo Water and Wastewater
District
STANDARD DETAILS

8/09

S-D16

APPROVAL BLOCK

Approved by _____ Date _____
Mukilteo Water and Wastewater
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

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JACOBS



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
MWWD SANITARY SEWER
STANDARD DETAILS

C08.43

SHEET
221
OF
1521
SHEETS

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SUBMITTAL DATE: 08/23/18

CONTRACTS

DESIGNED BY: E. BRODAHL

8/22/2018

ENTERED BY: R. REISER

8/22/2018

CHECKED BY: P. SACK

8/22/2018

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

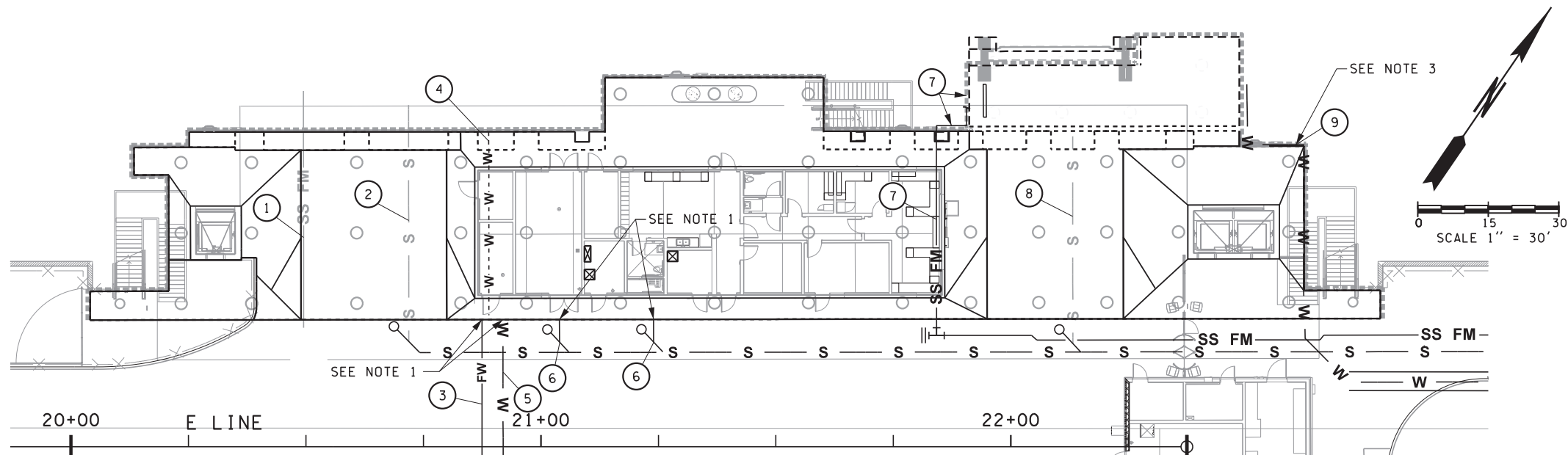
ASST SECRETARY: A. SCARTON

REVISION

DATE

BY

FED.AID
PROJ.NO.
WA-2017-007-00
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JOB NUMBER
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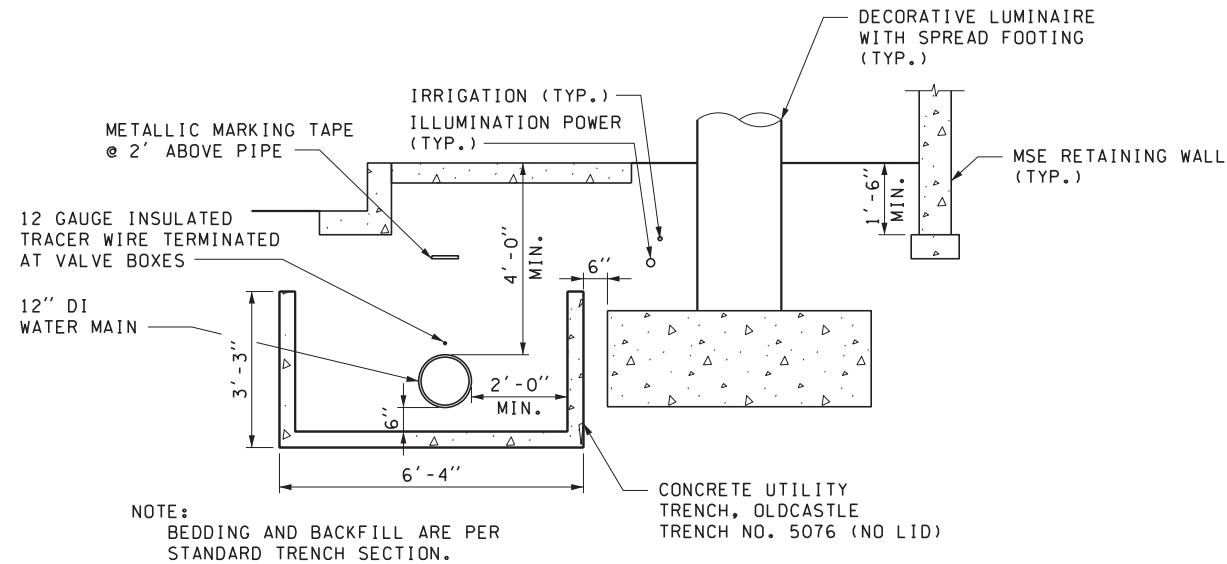
- NOTES:**
1. SEE BUILDING MECHANICAL FOR CONTINUATION.
 2. SEE TRESTLE STRUCTURAL DRAWINGS FOR CASING INVERT ELEVATIONS.
 3. 3"/4" INSULATED WATER SERVICE SUSPENDED FROM TRESTLE BY HANGERS. SEE SPECIAL PROVISIONS FOR WATER SVC 3" SUSP FR TRESTLE, W/ HANGERS & INSUL.

APPROVAL BLOCK

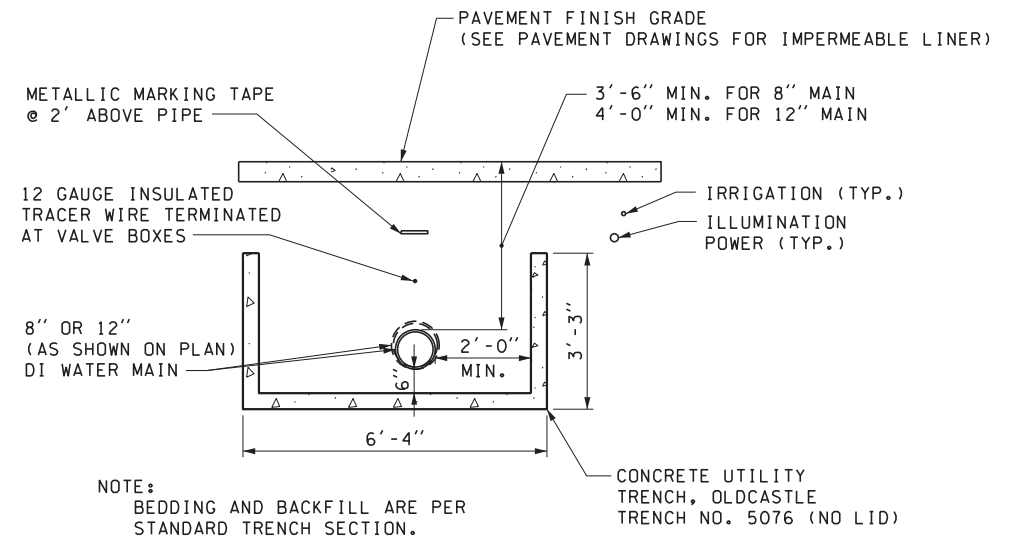
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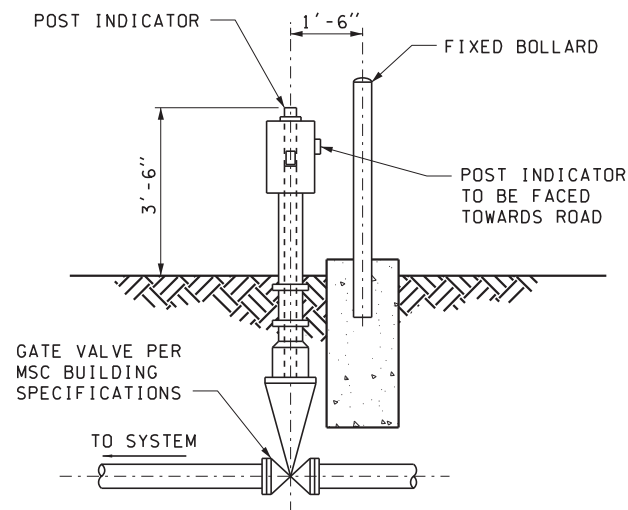
WATER / WASTEWATER TRESTLE MATERIAL SCHEDULE								
ID	PIPING SYSTEM	SIZE	UPLANDS PIPE MATERIAL, SIZE, CONNECTORS	TRESTLE PIPE MATERIAL, SIZE, CONNECTORS	CASING SIZE	CASING TREATMENTS	FREEZE PROTECTION	SEISMIC CONNECTION
1	VESSEL SSFM (FUTURE)		N/A	N/A	8"	2 - PLUGS, 142-8 SERIES MONITOR WELL PLUG BY PETERSEN OR EQUAL	N/A	N/A
2	TRENCH DRAIN TO SS	6"	ASTM 3034 PVC, 6" SCHED. 80 TO ASTM 3034 PVC TRANSITION GASKET.	SCHED. 80 PVC, 6"	8"	LOW PROFILE CASING SPACERS OR PIPE COLLAR, SIMILAR TO POLYETHYLENE MODEL CI BY APS OR EQUAL (SPECIAL ORDER MAY BE REQ'D). CASING END SEAL OR LINK SEAL. CASING PROVIDES GRAVITY PIPE SLOPE.	SLOPE TO DRAIN	TWO 6" ROMAC MACRO HP 7.60 FLEXIBLE COUPLINGS WITH 4' LONG 6" SCHD 80 SPOOL BETWEEN AND WITH ASTM D3034 TRANSITION GASKET ON DOWNSTREAM MACRO HP COUPLING.
3	BUILDING FIRE WATER	6"	CL.52 DI, 6", FL	SEE MECHANICAL	N/A	N/A	N/A	6" EBAA FLEX-TEND FORCE BALANCED FLEXIBLE EXPANSION JOINT (FL) DOUBLE BALL, ASSEMBLY 406F20 (OR EQUAL)
4	VESSEL WATER (FUTURE)		N/A	N/A	8"	2 - PLUGS, 142-8 SERIES MONITOR WELL PLUG BY PETERSEN OR EQUAL	N/A	N/A
5	BUILDING WATER	2"	2" COPPER, TYPE K PER ASTM B88	SEE MECHANICAL	N/A		FREEZE PROTECTION VALVE. WATSON MCDANIEL OR EQUAL. SEE MECHANICAL.	2" EBAA FLEX-TEND FORCE BALANCED FLEXIBLE EXPANSION JOINT (FL) DOUBLE BALL, ASSEMBLY 402F20 (OR EQUAL) WITH DI X COPPER TRANSITION COUPLINGS.
6	SANITARY SEWER	4"	ASTM 3034 PVC, 6", WITH 6" X 4" REDUCER OR 6" X 4" TEE.	SEE MECHANICAL	N/A	N/A	N/A	UPLANDS TO TRESTLE: TWO 4" ROMAC HP 5.60 FLEXIBLE COUPLINGS WITH 4' LONG 4" PVC SPOOL BETWEEN AND WITH ASTM D3034 TRANSITION GASKETS WHERE NEEDED ON MACRO HP COUPLINGS. TRESTLE SIDE WELDED, UPLANDS WITH ASTM D3034 TRANSITION GASKET.
7	VESSEL SSFM	6"	HDPE IPS, DR 21	HDPE, DR 21. PROVIDE WATERSIDE GROOVED TRANSITION CONNECTION & 6"x4" REDUCER. 6" CLEAR FROM END OF CASING TO TRANSITION FITTING.	8"	CASING END SEAL AT UPLANDS SIDE. LINK SEAL AT WATER SIDE.	SLOPE TO DRAIN, EXTEND VTS LOW-TEMP HEAT TRACE OVER HOSE. 2" CLOSED CELL INSULATION W/UV RESISTANT JACKET OR COATING OVER HOSE. K-FLEX INSUL-TUBE AND 374 PROTECTIVE COATING OR EQUAL.	BRIDGE SEAT TO TRESTLE: FOOD MASTER EXTREME 250SD CR, 4" HOSE LENGTH TO FIT WITH SAG. CRIMP X GROOVE CONNECTORS. STAINLESS STL CONN HARDWARE.
8	TRENCH DRAIN TO SS	6"	ASTM 3034 PVC, 6" SCHED. 80 TO ASTM 3034 PVC TRANSITION GASKET.	SCHED. 80 PVC, 6"	8"	LOW PROFILE CASING SPACERS OR PIPE COLLAR, SIMILAR TO POLYETHYLENE MODEL CI BY APS OR EQUAL (SPECIAL ORDER MAY BE REQ'D). CASING END SEAL OR LINK SEAL. CASING PROVIDES GRAVITY PIPE SLOPE.	SLOPE TO DRAIN	TWO 6" ROMAC MACRO HP 7.60 FLEXIBLE COUPLINGS WITH 4' LONG 6" SCHD 80 SPOOL BETWEEN AND WITH ASTM D3034 TRANSITION GASKET ON DOWNSTREAM MACRO HP COUPLING.
9	VESSEL WATER	3" AND 4"	CL.52 DI, 3", DI TO GROOVE TRANSITION FITTING	CARBON STEEL, GALVANIZED, SCHEDULE 80, GROOVED JOINTS, VICTAULIC OR EQUAL.	8"	N/A	2" CLOSED CELL INSULATION W/UV RESISTANT JACKET OR COATING. K-FLEX INSUL-TUBE AND 374 PROTECTIVE COATING OR EQUAL. FREEZE PROTECTION VALVE. WATSON MCDANIEL OR EQUAL.	BRIDGE SEAT TO TRESTLE: 3" EBAA FLEX-TEND FORCE BALANCED FLEXIBLE EXPANSION JOINT (FL) DOUBLE BALL, ASSEMBLY 403F20 (OR EQUAL) WITH DI X GALV STEEL TRANSITION COUPLINGS.



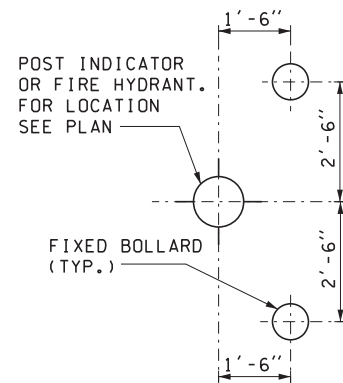
1 FIRST STREET WATER MAIN OVER SENSITIVE LAYER



2 HOLDING & EXIT LANE WATER MAINS OVER SENSITIVE LAYER



3 POST INDICATOR VALVE



FIXED BOLLARD DETAIL

APPROVAL BLOCK

Approved by _____ Date _____

Mukilteo Water and Wastewater _____

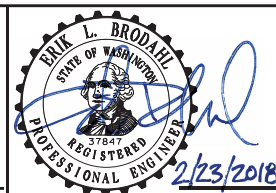
Mukilteo Water and Wastewater District Extension No. _____

Gray & Osborne No. _____

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0 1 2
SCALE 1/4" = 1'-0"

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ENTERED BY: R. REISER	2/22/2018			10 WASH
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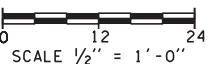


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
WATER & SANITARY SEWER
DETAILS

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OF
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SHEETS



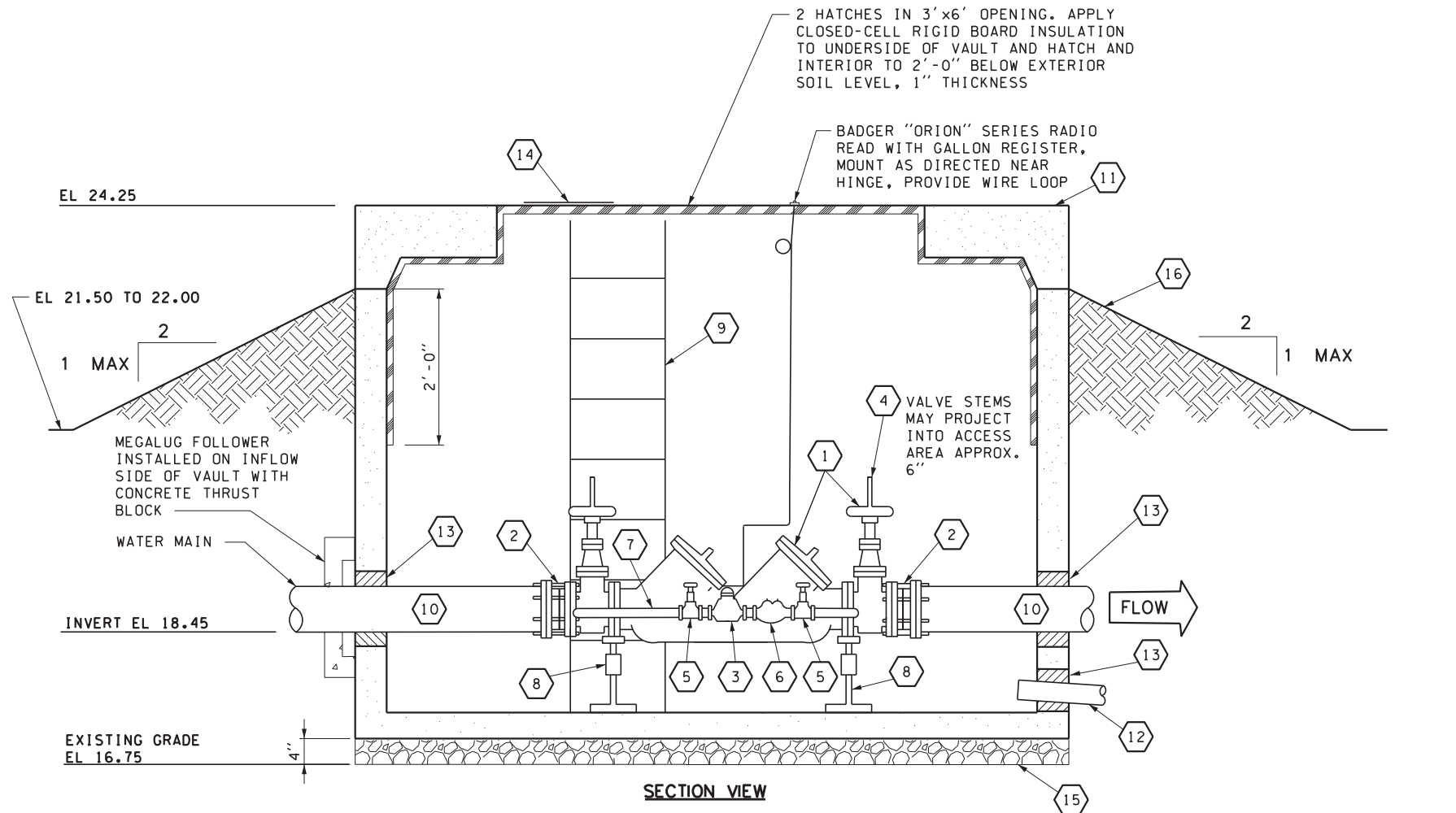
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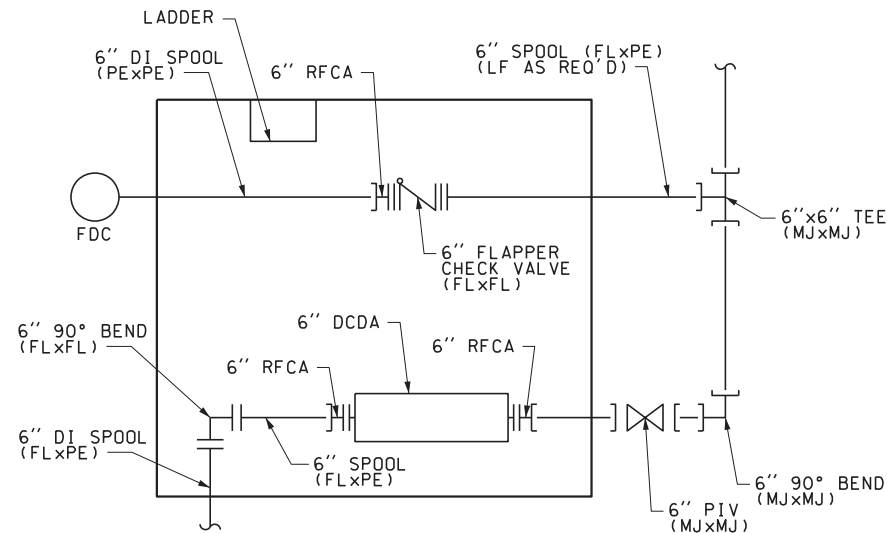
SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION
WATER & SANITARY SEWER DETAILS

C08.53

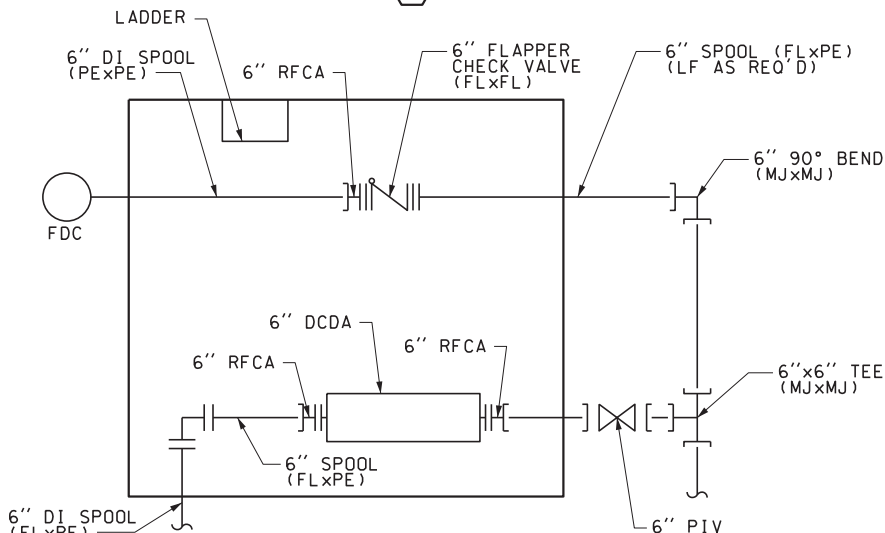
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225
OF
1521
SHEETS



SECTION VIEW



WEST FIRE VAULT
SCHEMATIC PIPING
PLAN VIEW



EAST FIRE VAULT
SCHEMATIC PIPING
PLAN VIEW

NOTE: SECTION VIEW OF PIPING ABOVE IS FROM MWWD STANDARD DETAIL, SEE PLAN VIEW BELOW FOR SCHEMATIC PIPING LAYOUT SPECIFIC TO PROJECT, AND MWWD STANDARD DETAIL W-D20 FOR MORE INFORMATION.

1 DOUBLE CHECK DETECTOR
BACKFLOW PREVENTION ASSEMBLY
NO SCALE

CONSTRUCTION NOTES:

- 1 STATE APPROVED DOUBLE CHECK VALVE DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTOR ASSEMBLY WITH O.S.&Y. GATE VALVE
- 2 ROMAC STYLE 'FCA 501' RESTRAINED FLANGED COUPLING ADAPTER
- 3 $\frac{5}{8}$ " x $\frac{3}{4}$ " BADGER "ORION" SERIES RADIO MOUNTED TO VAULT SURFACE OR HATCH: 6 WHEEL READING IN GALLONS
- 4 LOCATE CENTER OF VALVE 15" FROM CENTER OF VAULT TO ALLOW STEMS TO EXTEND INTO ACCESS OPENING WHEN APPLICABLE
- 5 $\frac{3}{4}$ " SHUTOFF VALVE: BRASS GATE VALVE
- 6 STATE APPROVED $\frac{3}{4}$ " DOUBLE CHECK VALVE ASSEMBLY (DCVA)
- 7 BRASS OR TYPE K COPPER, DETECTOR CHECK PIPING (BY PASS LINE)
- 8 2 EA. GALVANIZED ADJUSTABLE STANTIONS (LOCATE AT ENDS OF DOUBLE CHECK ASSEMBLY)
- 9 GALVANIZED STEEL LADDER, LOCATE AS DIRECTED BY DISTRICT, SECURE TO VAULT. LOCATE LADDER TO AVOID CONFLICT WITH PIPING, SECURED UNDER HATCH AS NEEDED
- 10 PIPE SPOOL, CL. 52 D.I., PLAIN END
- 11 "UTILITY VAULT" 4484-LA OR APPROVED EQUAL WITH ADJUSTABLE COVER, 2 ACCESS HATCHES
- 12 6" PVC DRAIN, DISCHARGE TO CATCH BASIN. MINIMUM SLOPE 0.5%. ADD SCREENS TO BOTH ENDS
- 13 WATERTIGHT GROUT, INLET AND OUTLET PIPE, DRAIN PIPE AND BRICK ACCESS OPENING
- 14 SIGN READING "DANGER-PERMIT REQUIRED-CONFINED SPACE, DO NOT ENTER"
- 15 COMPACTED GRAVEL BACKFILL FOR FOUNDATION, CLASS A TO 95%, MDD PER ASTM D1557
- 16 MOUND SOIL ABOVE ADJACENT FINISH AT 2:1 SLOPE ALL SIDES OF VAULT

APPROVAL BLOCK

Approved by _____
Mukilteo Water and Wastewater _____ Date _____
Mukilteo Water and Wastewater District Extension No. _____
Gray & Osborne No. _____

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MAR PROJ ENGR: C. TORRES

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ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

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REVISION

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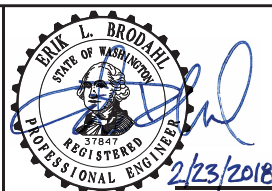
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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
WATER & SANITARY SEWER
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