



Contract Plans

For Construction of:

009321

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION

SNOHOMISH COUNTY

VOLUME 4 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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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

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

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10.10
SHEET
11
OF
1521
SHEETS

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ENTERED BY: R. JACKSON	9/21/18				10 WASH
CHECKED BY: D. ALIRE	9/21/18				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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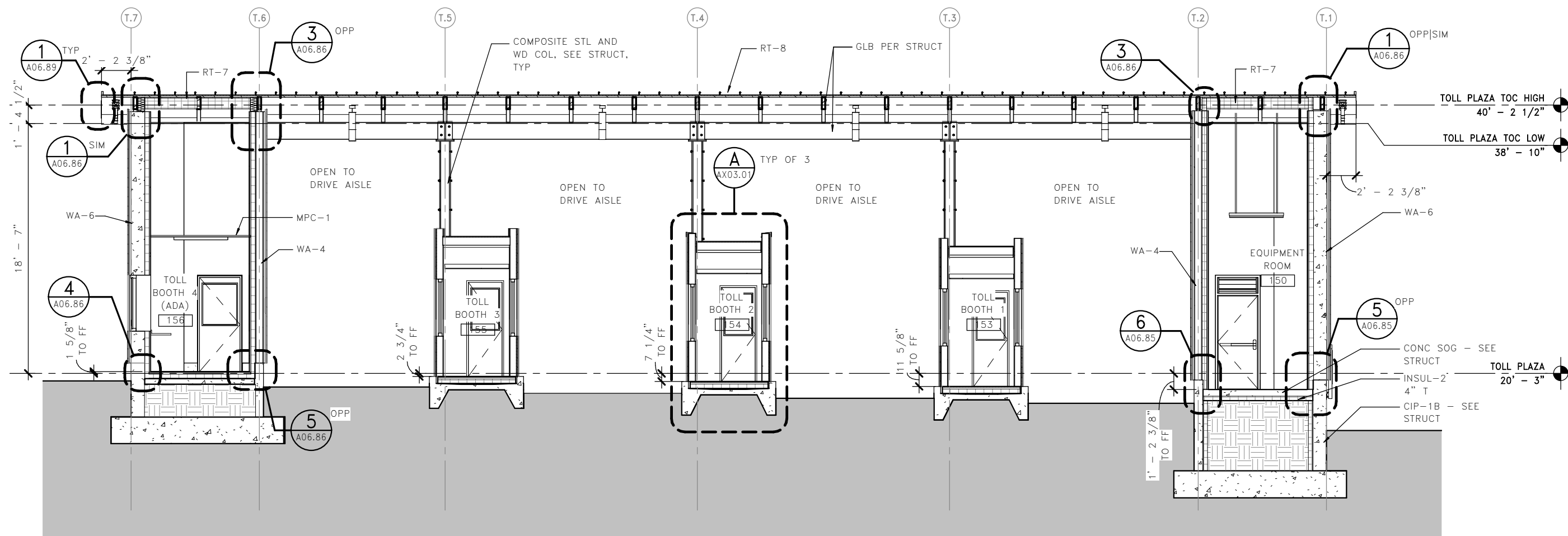
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1198	SB09.00	TYPICAL CMU DETAILS
1199	SB09.01	TYPICAL CMU DETAILS
1200	SB09.02	TYPICAL CMU DETAILS



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

GENERAL NOTES

1. SEE A00.60-62 FOR FA-# ASSEMBLIES
2. SEE A00.65-68 FOR WA-# ASSEMBLIES
3. SEE A00.70-71 FOR RT-# ASSEMBLIES



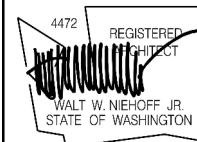
1 TOLL PLAZA - BUILDING SECTION
A06.80

LMN



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DGN ENGR MNGR: N. MCINTOSH					CONTRACT NO.	
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REVISION					DATE	BY

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08/23/18
DATE

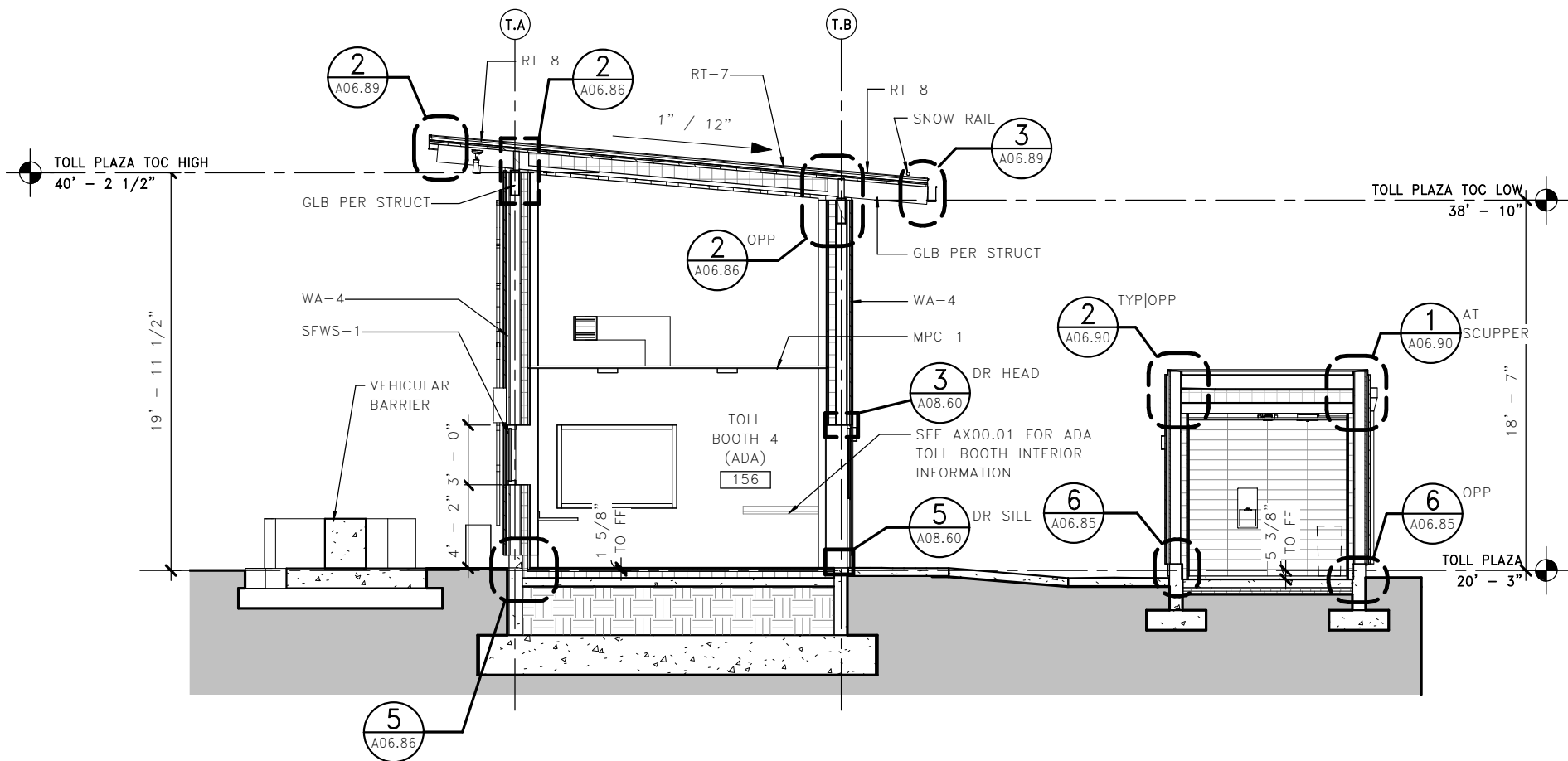


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TOLL PLAZA - BLDG SECTIONS

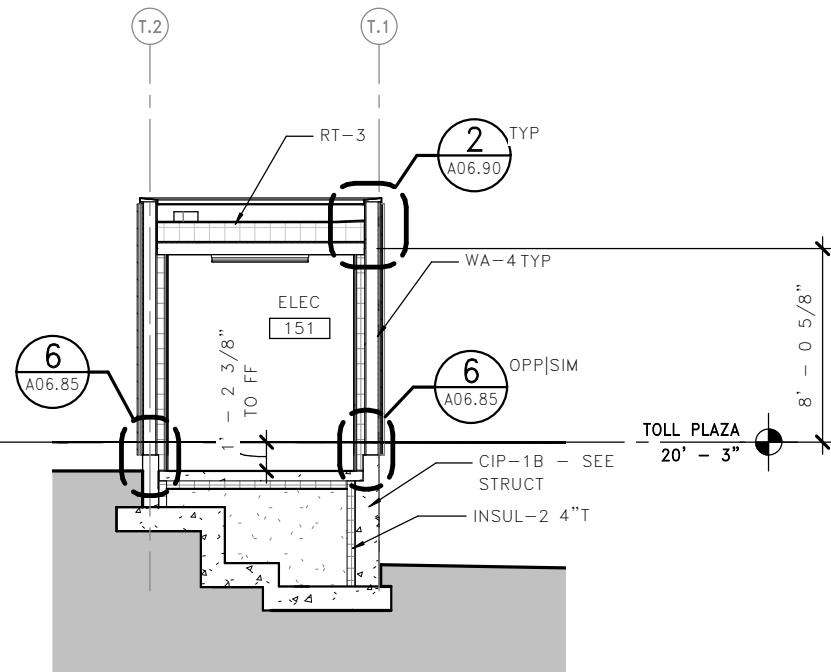
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SHEET
1027
OF
1521
SHEETS

GENERAL NOTES

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2. SEE A00.65-68 FOR WA-# ASSEMBLIES
3. SEE A00.70-71 FOR RT-# ASSEMBLIES

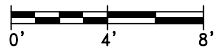




A TOLL PLAZA - BUILDING SECTION
A06.81



2 TOLL PLAZA - BUILDING SECTION
A06.81

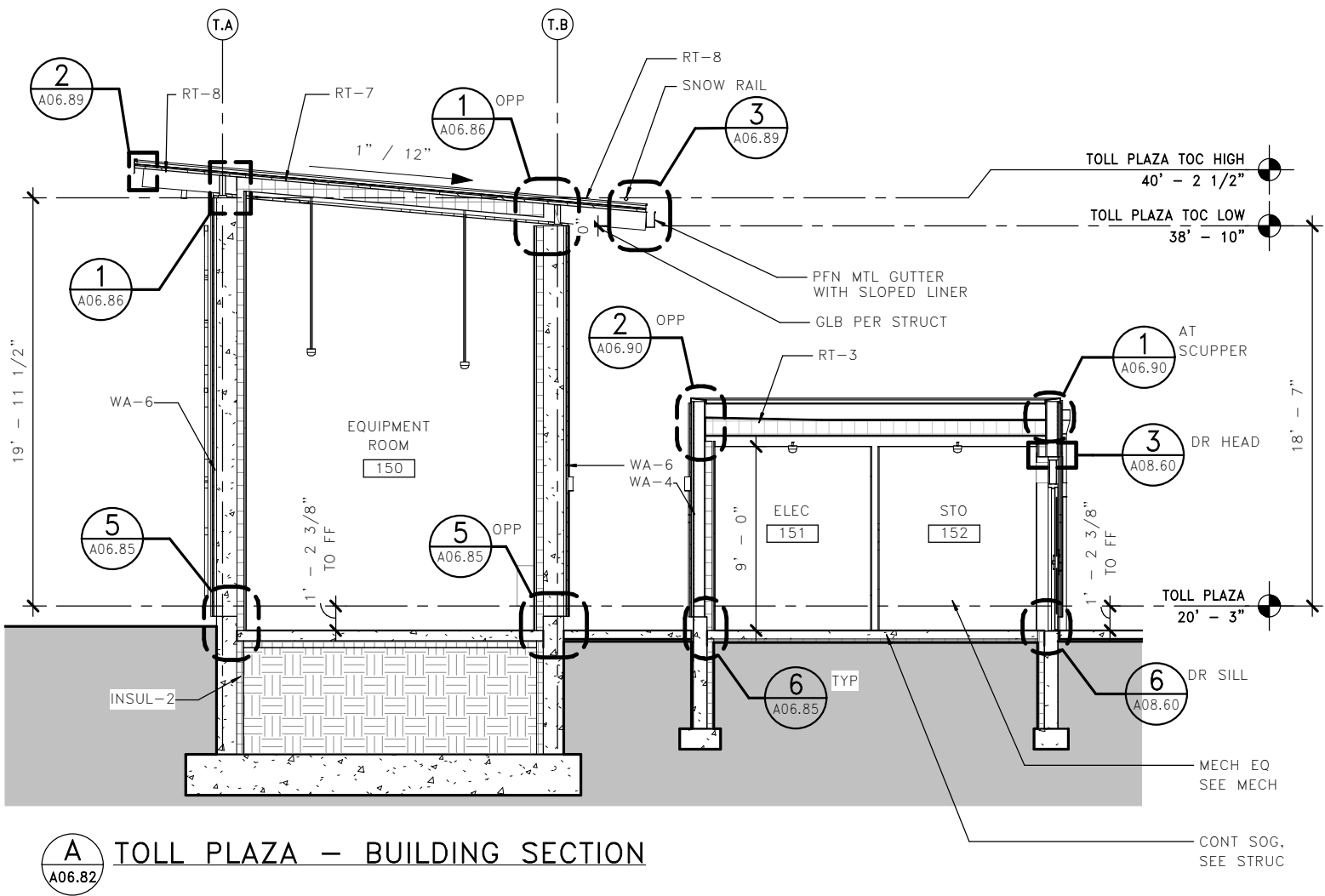
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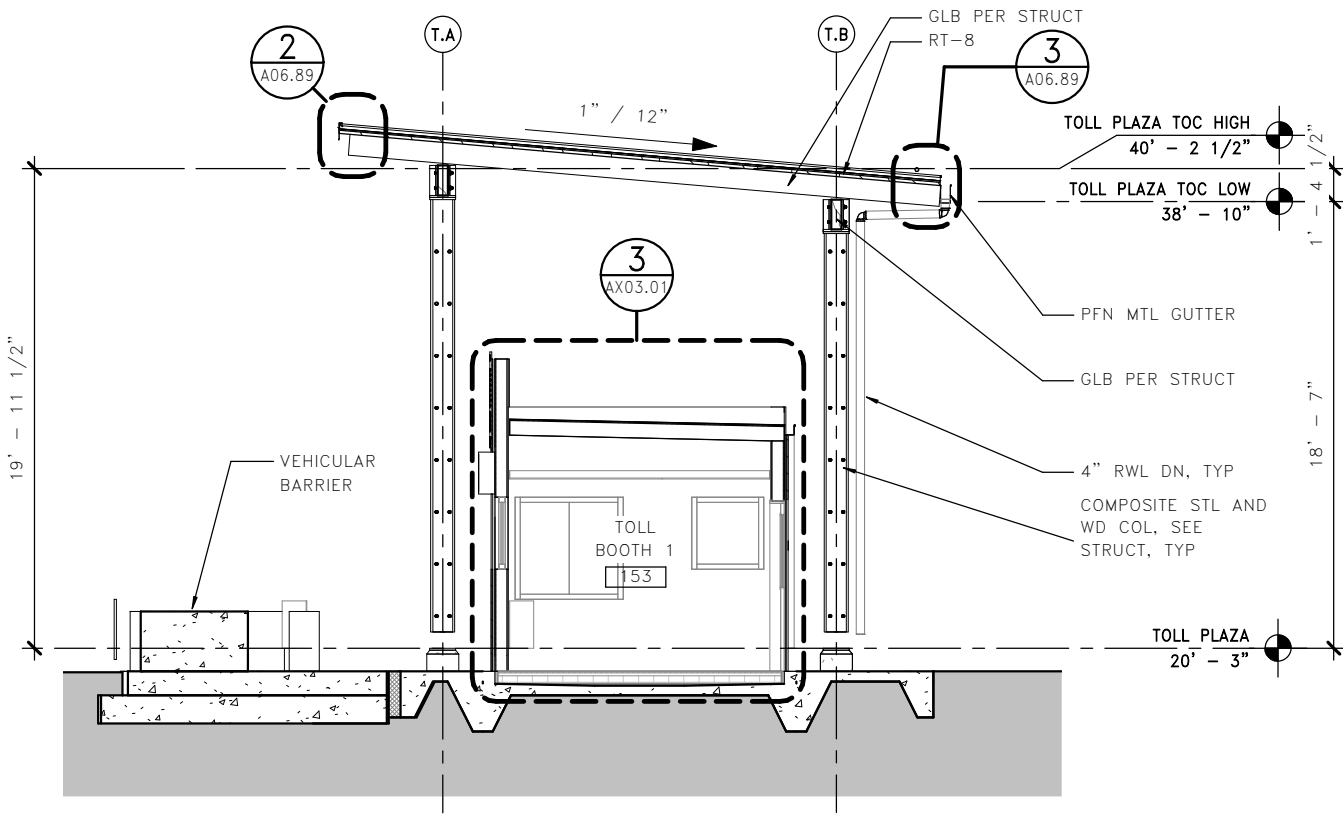
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ENTERED BY: G. BISHOP		CHECKED BY: M. FISHER		REGION NO. 10 STATE WA		TOLL PLAZA - BLDG SECTIONS										
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ASST SECRETARY: A. SCARTON		REVISION		DATE		BY		CONTRACT NO. 00****								

GENERAL NOTES

1. SEE A00.60-62 FOR FA-# ASSEMBLIES
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3. SEE A00.70-71 FOR RT-# ASSEMBLIES



A TOLL PLAZA - BUILDING SECTION
A06.82

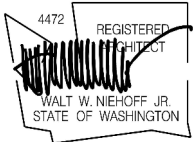


B TOLL PLAZA - BUILDING SECTION
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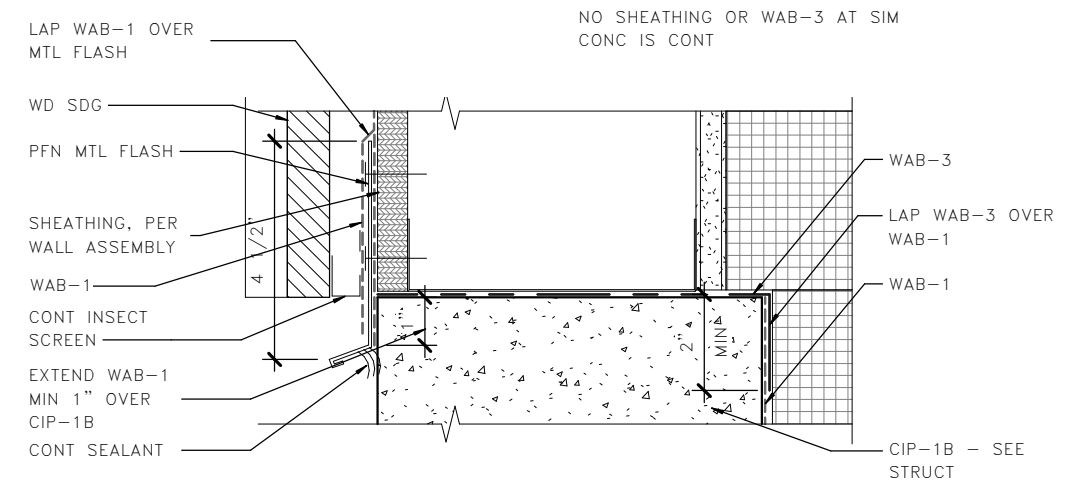


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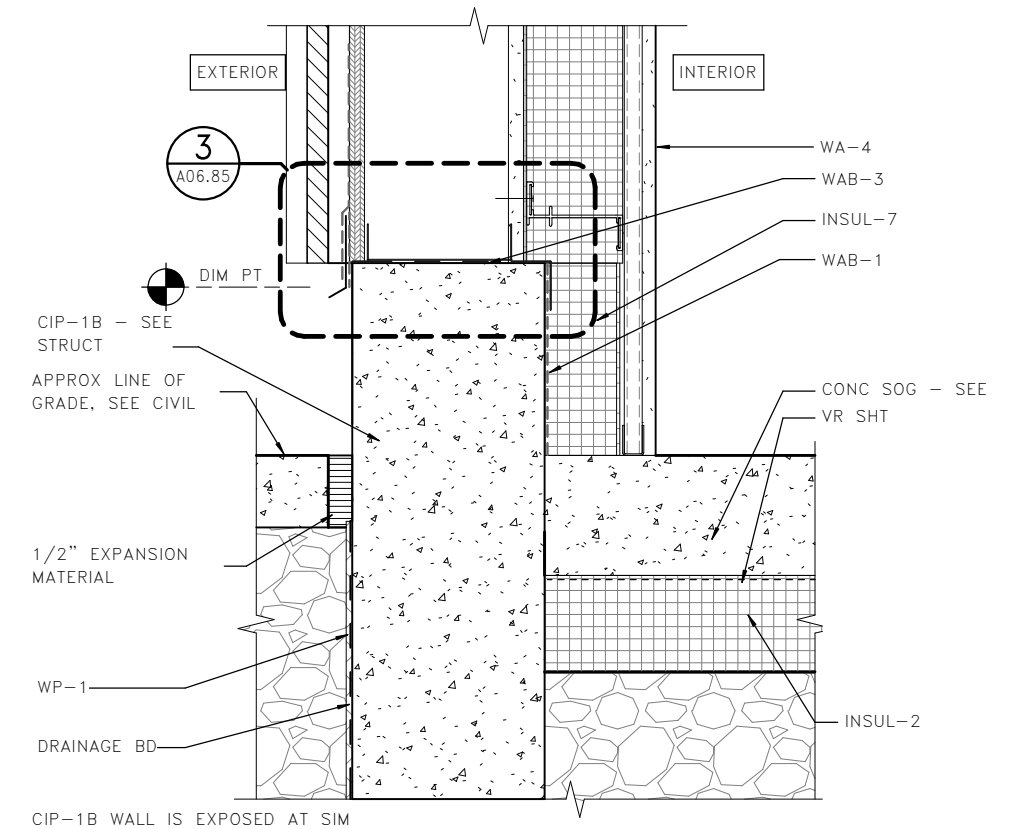


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TOLL PLAZA - BLDG SECTIONS

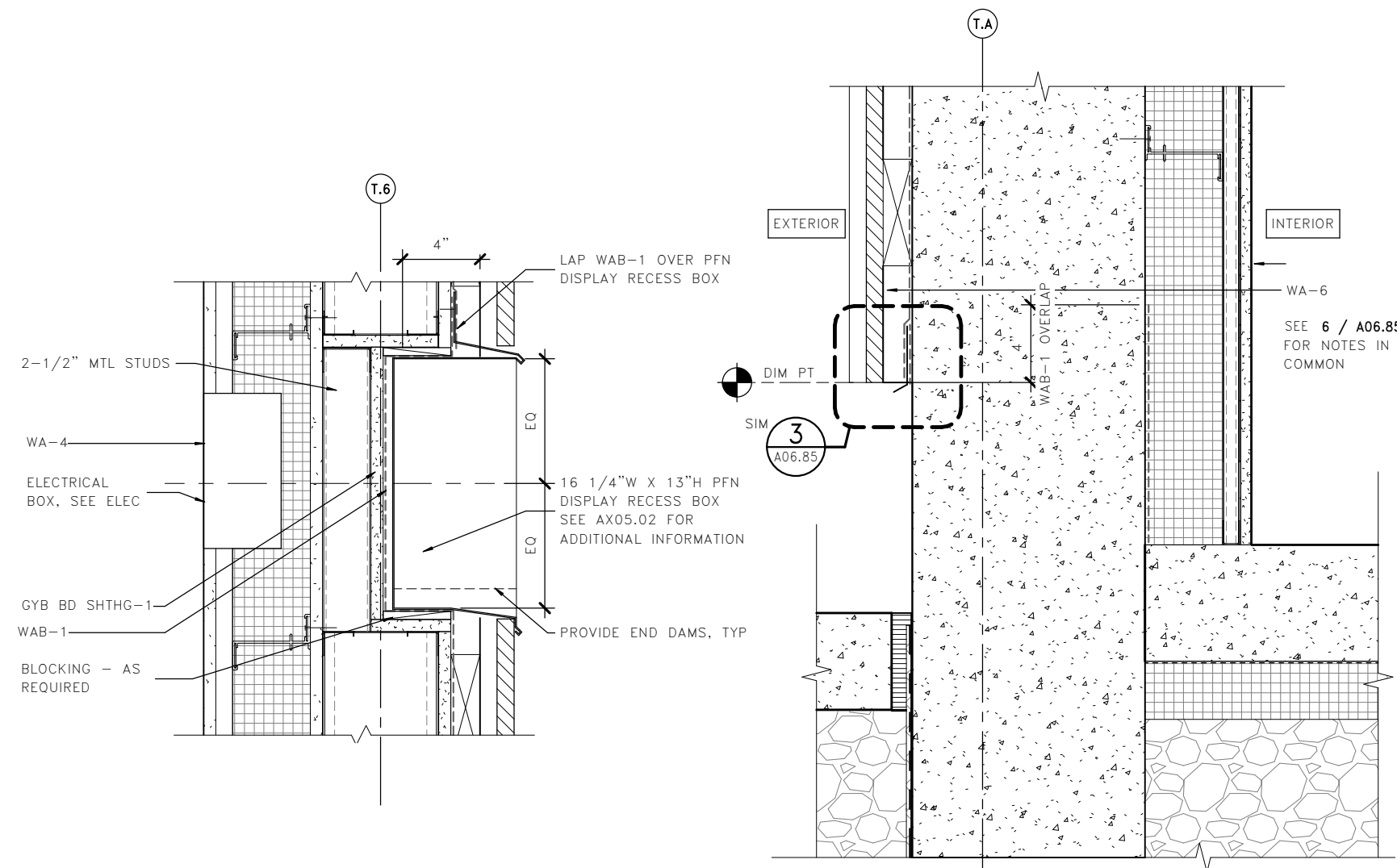
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SHEET
1029
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1521
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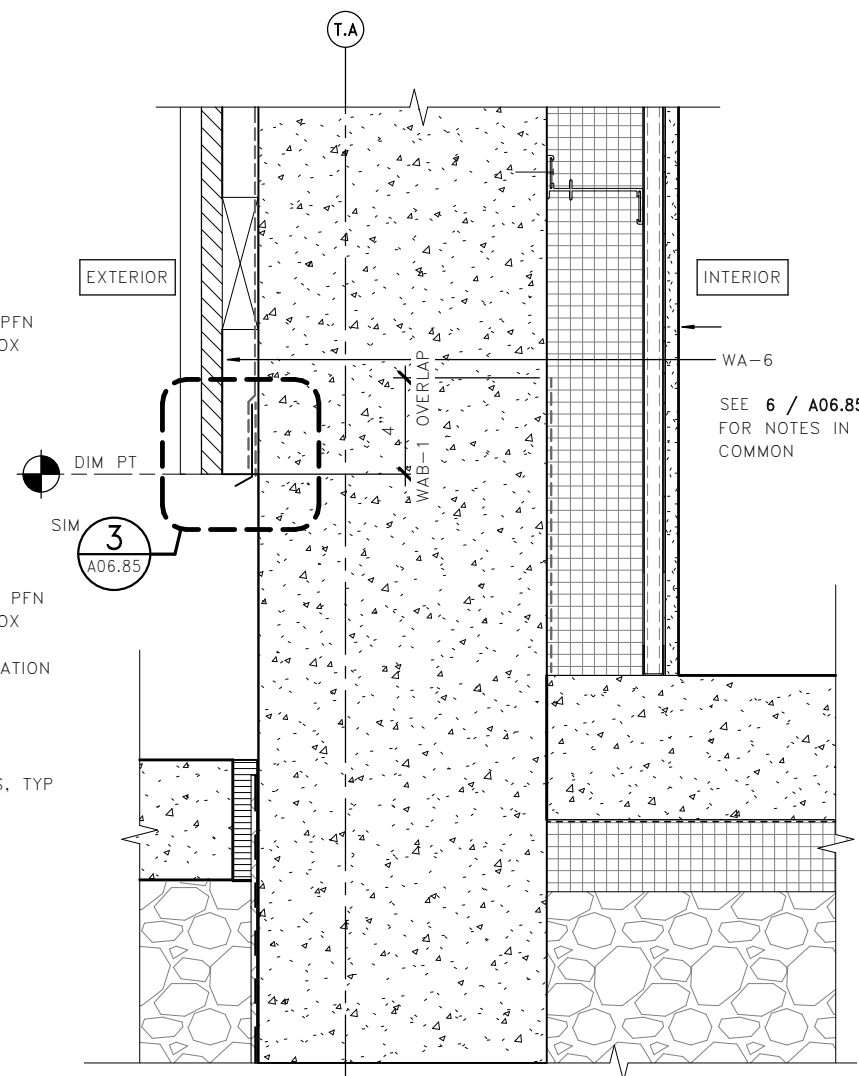
3 WD-SDG @ TOLL BASE
A06.85
0 2" 4"
3" = 1'-0"



6 BASE OF STUD WALL - TOLL
A06.85
0 4" 8"
1 1/2" = 1'-0"



4 TOLL - DISPLAY RECESS
A06.85
0 4" 8"
1 1/2" = 1'-0"



5 BASE OF CONC WALL - TOLL
A06.85
0 4" 8"
1 1/2" = 1'-0"

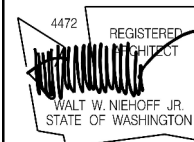
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ASST SECRETARY:	A. SCARTON		
REVISION	DATE	BY	

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REGION NO.	10
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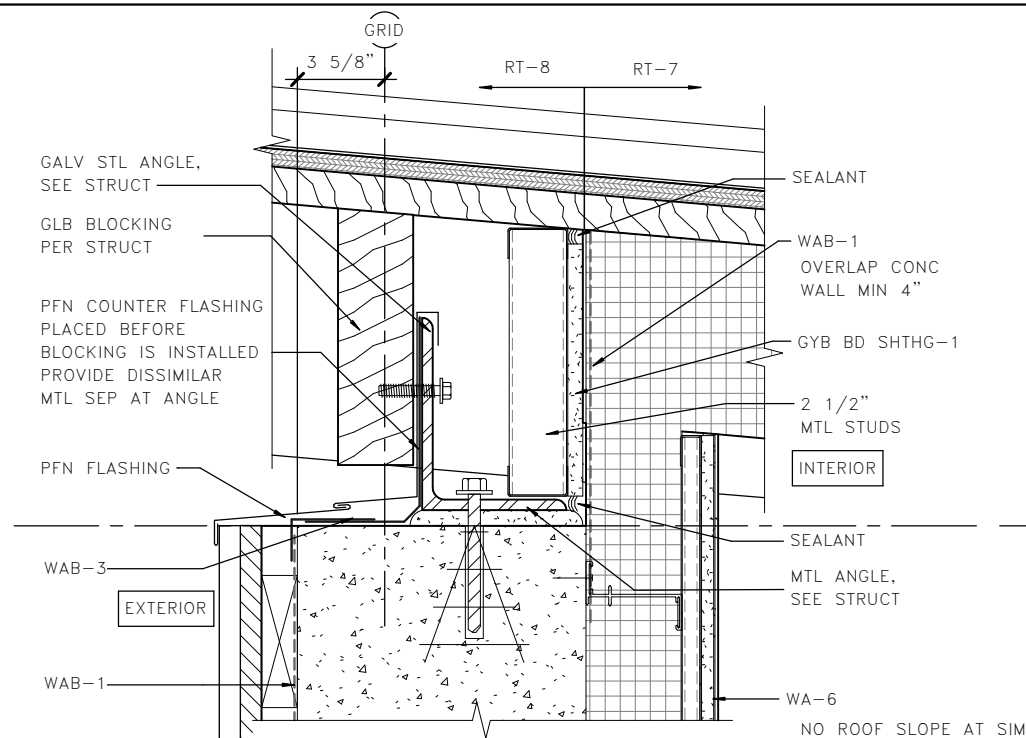


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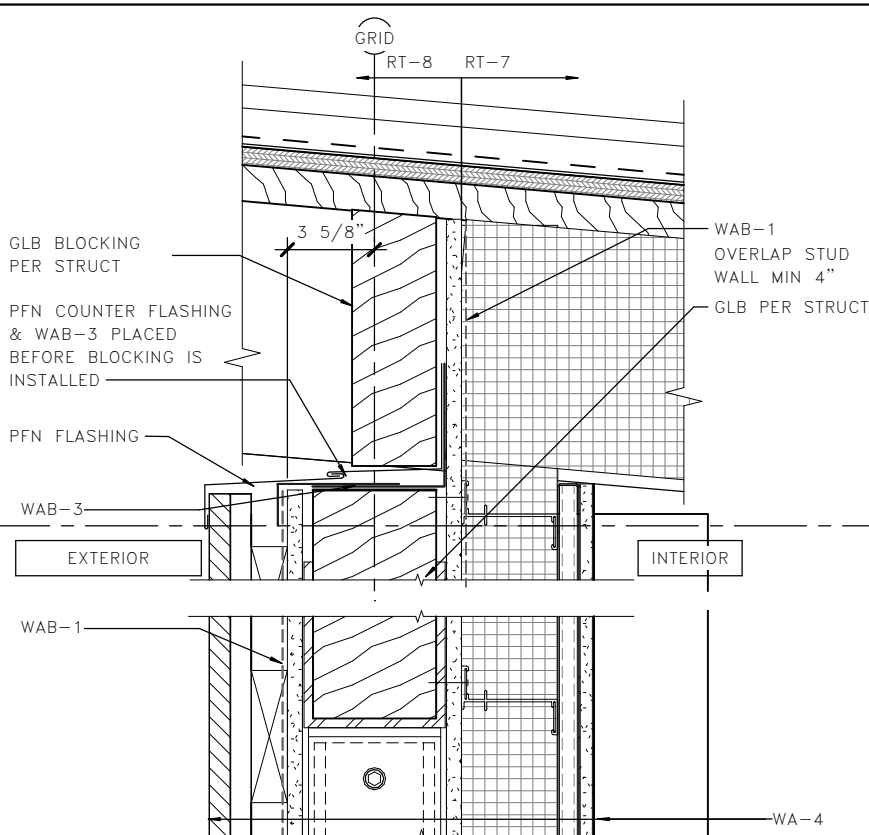


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TOLL PLAZA - EXTERIOR DETAILS

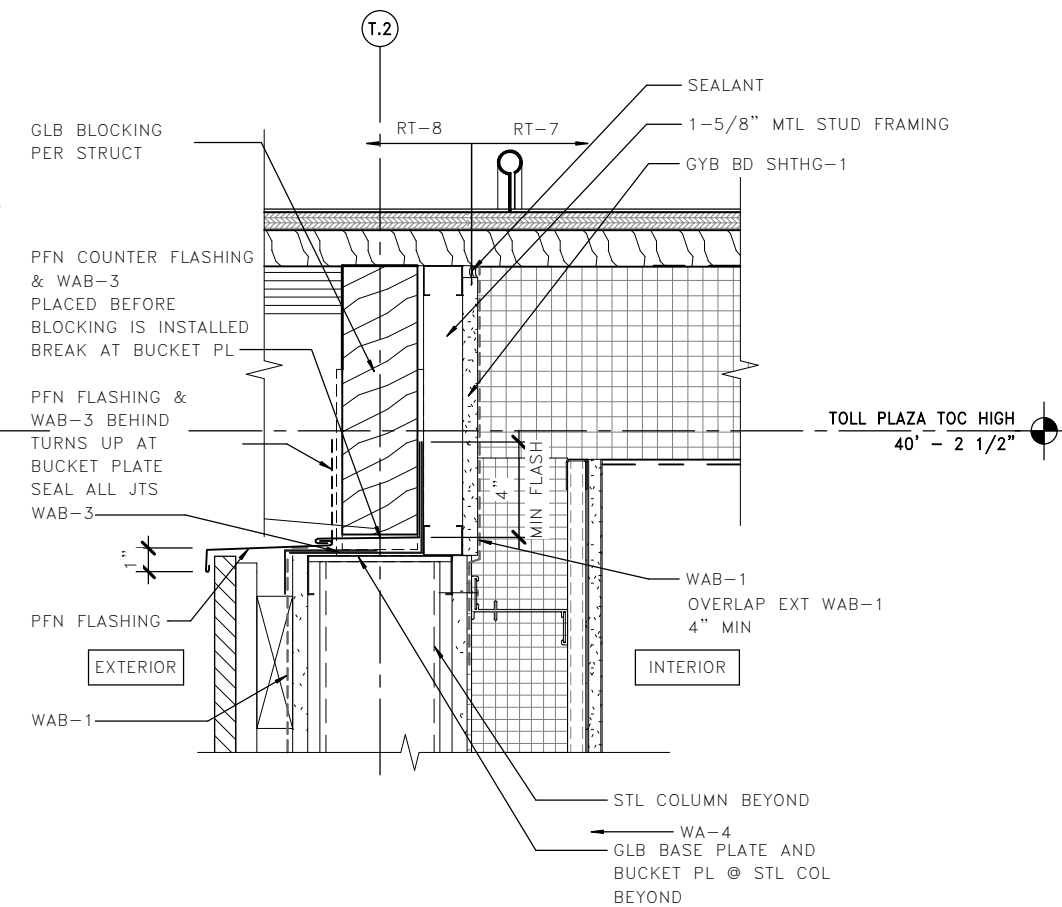
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SHEET
1030
OF
1521
SHEETS



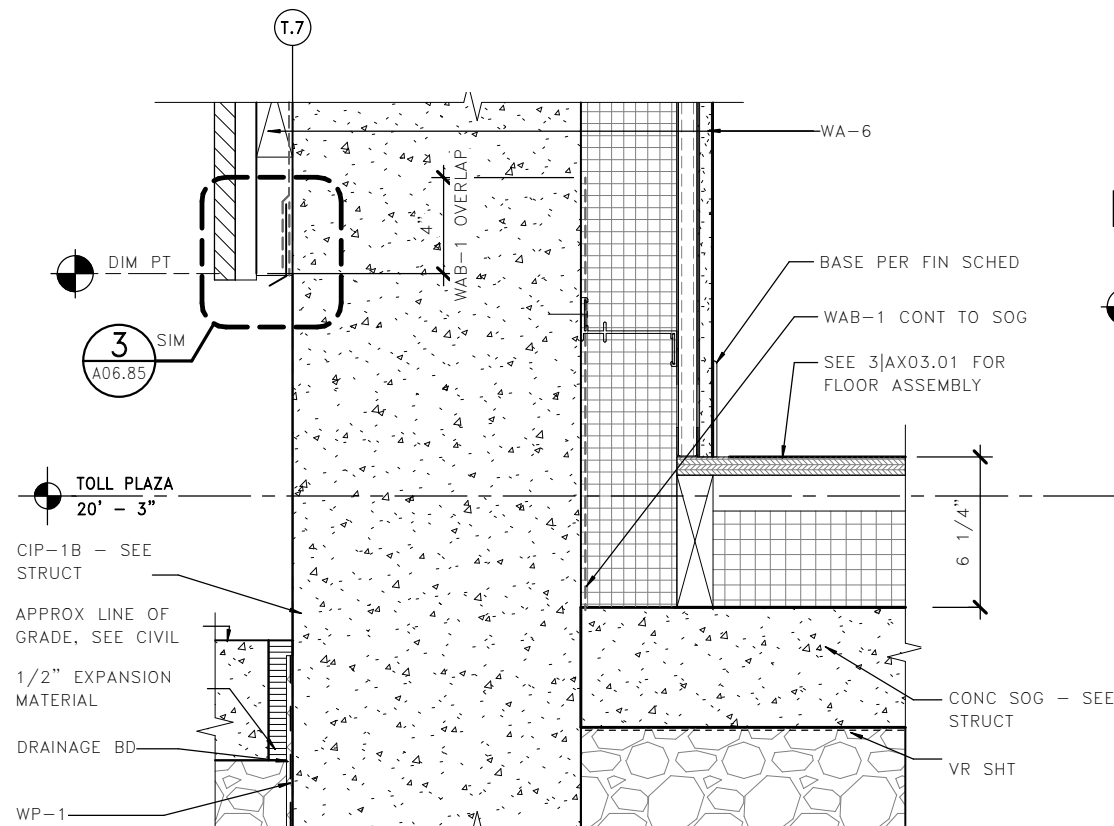
1 TOP OF CONC WALL - TOLL
A06.86



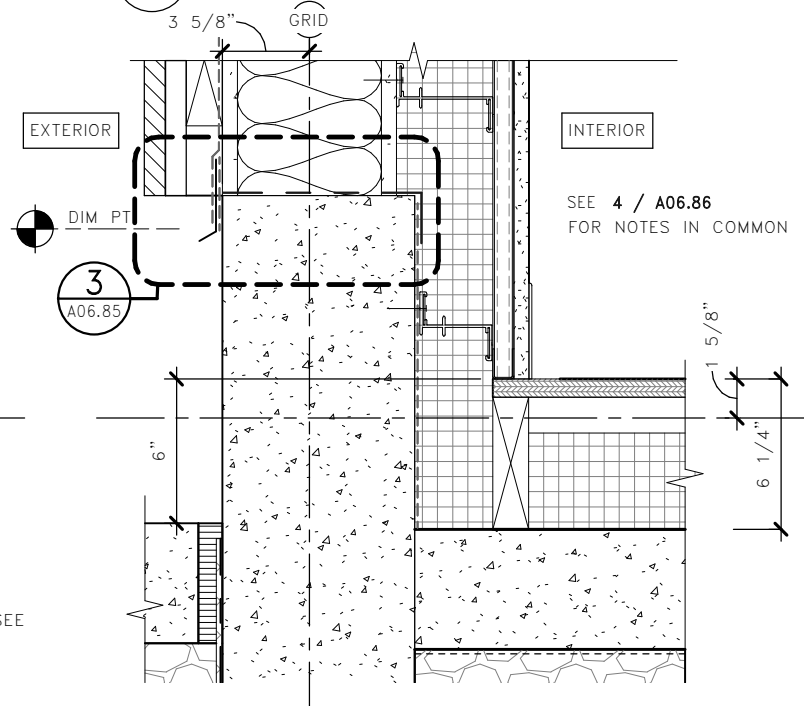
2 TOP OF STUD WALL - TOLL
A06.86



3 TOP OF STUD WALL - TOLL
A06.86

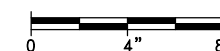


4 BASE OF CONC WALL - ADA TOLL
A06.86

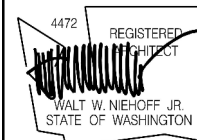


5 BASE OF STUD WALL - ADA TOLL
A06.86

LMN



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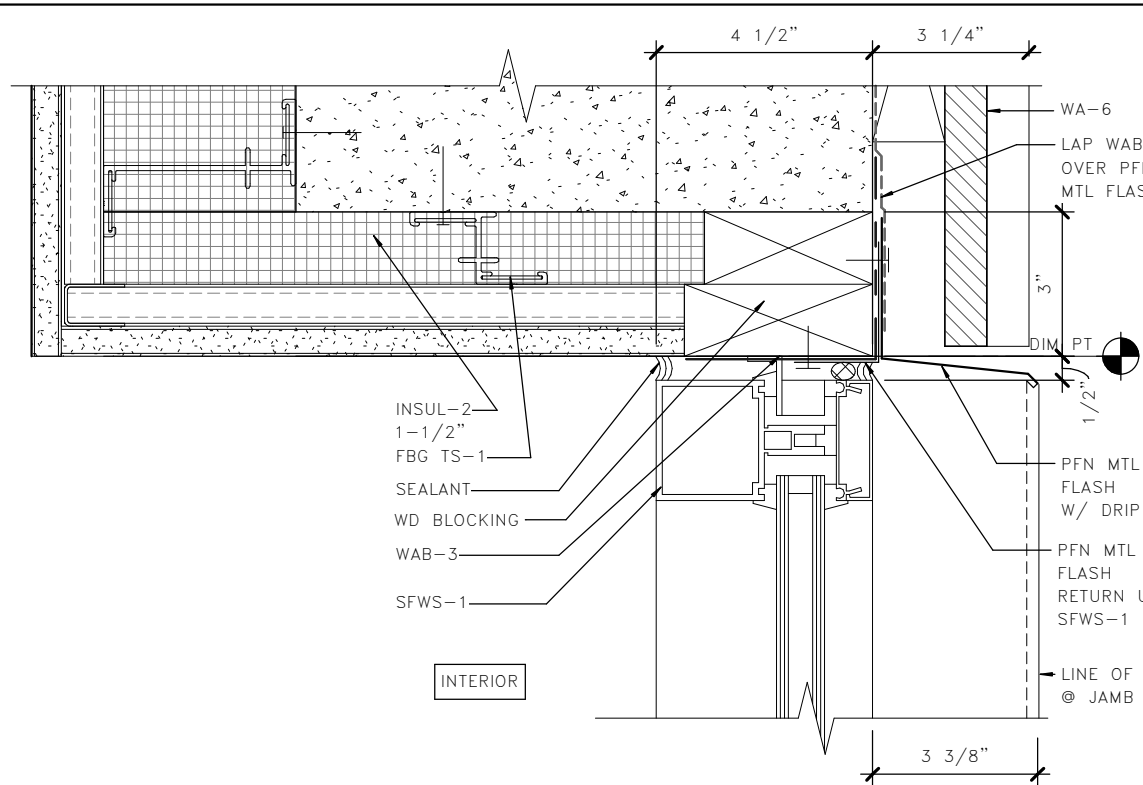


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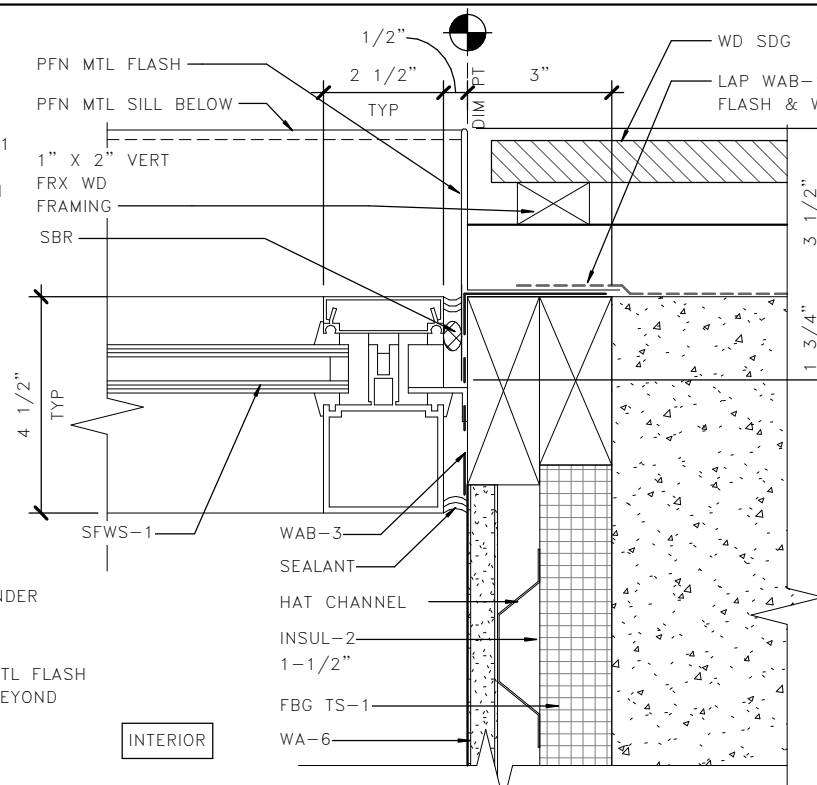


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TOLL PLAZA - EXTERIOR DETAILS

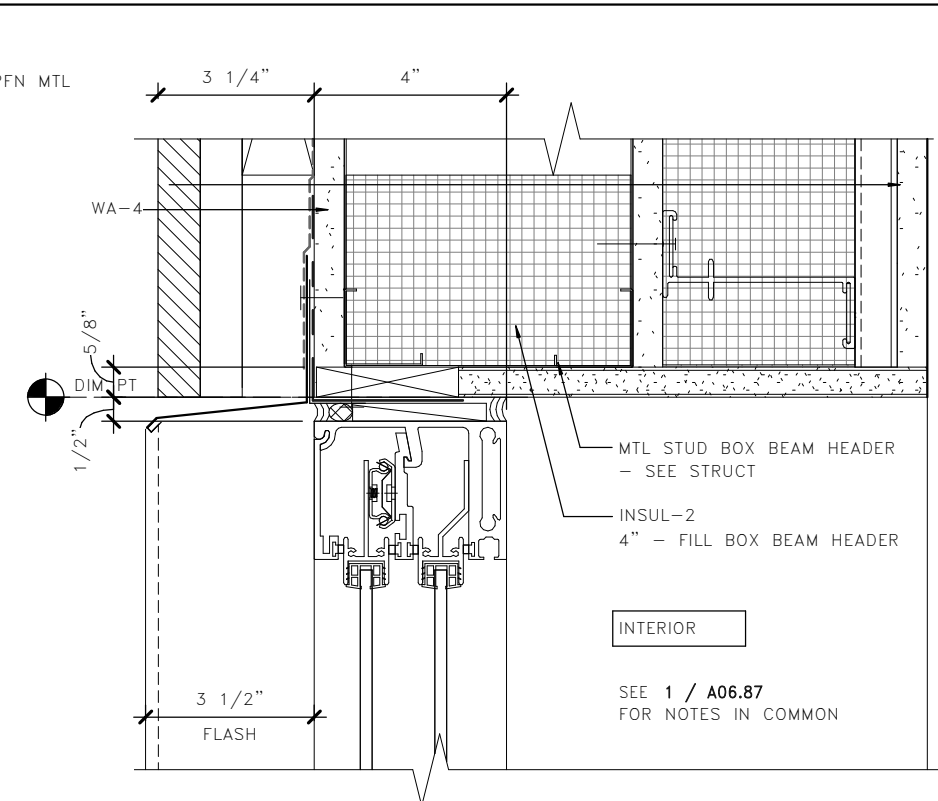
A06.86
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1521
SHEETS



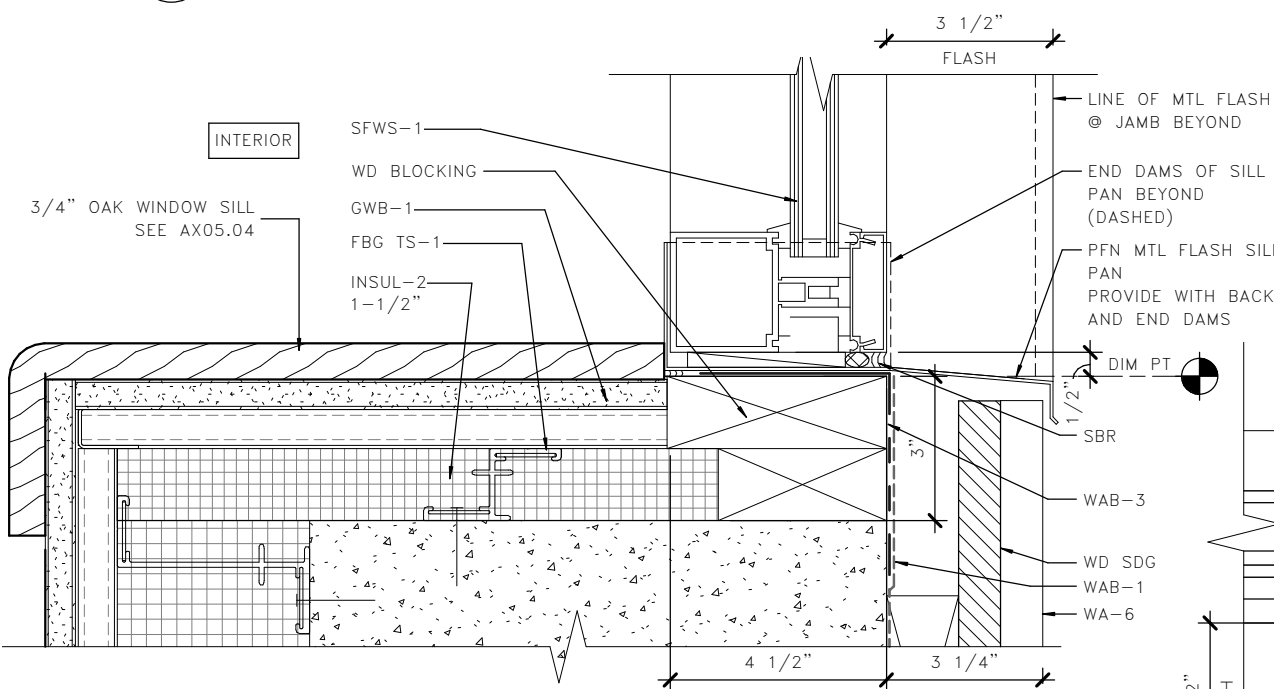
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A06.87



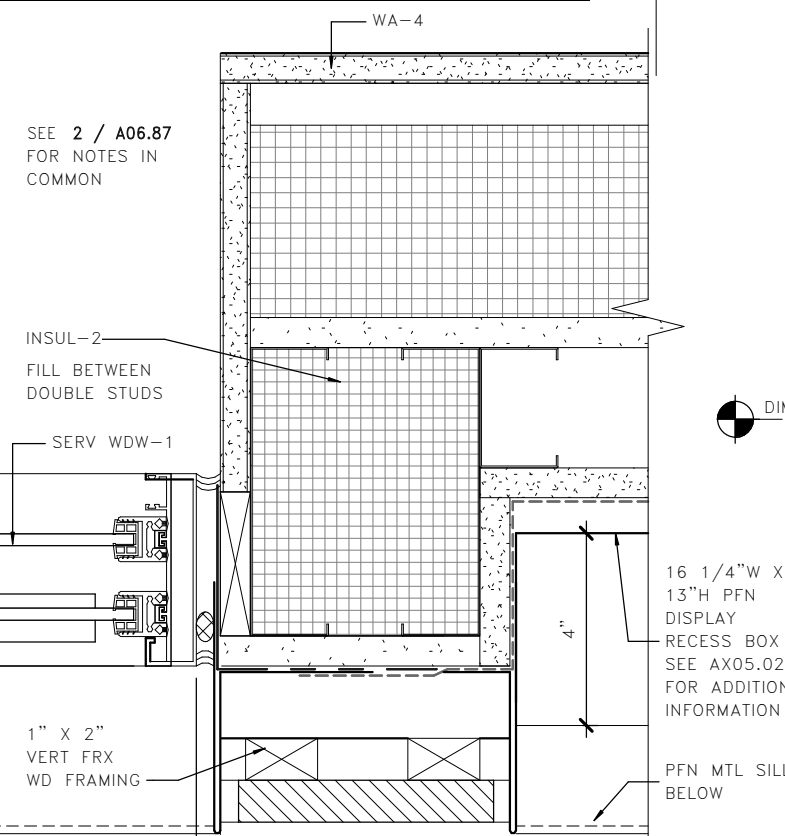
2 SFWS-1 JAMB AT CONC - TOLL
A06.87



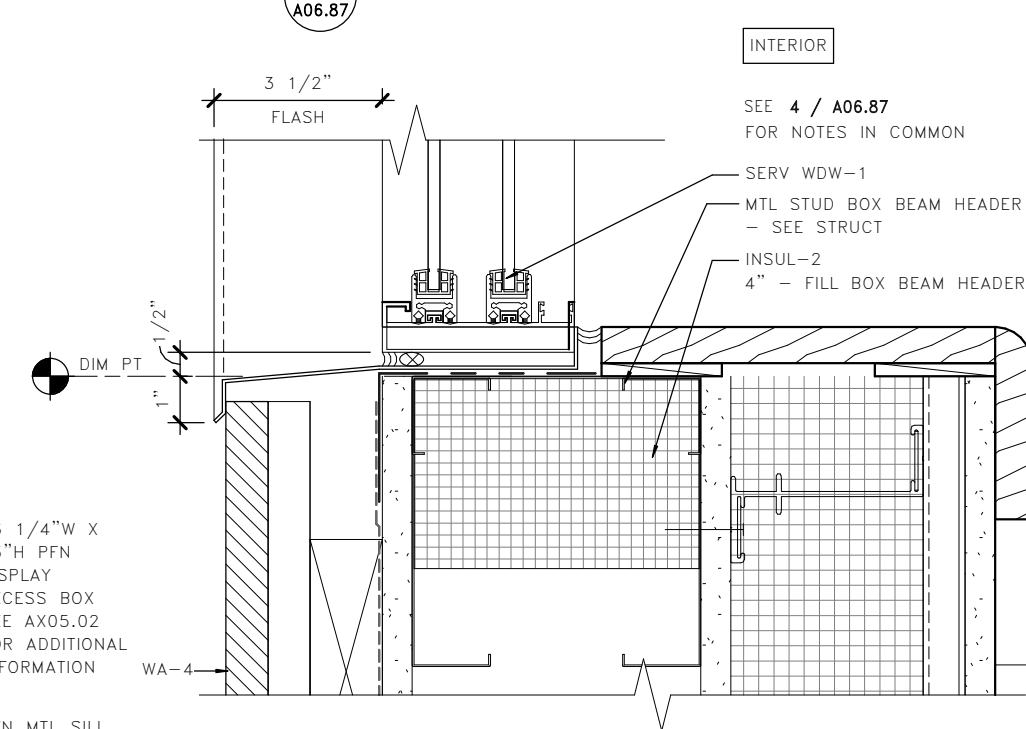
3 SERV WDW-1 HEAD
A06.87



4 SFWS-1 SILL AT CONC - TOLL
A06.87



5 SERV WDW-1 JAMB
A06.87



6 SERV WDW-1 SILL
A06.87



LMN

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DESIGNED BY: H. FITZPATRICK

08/23/2018

ENTERED BY: G. BISHOP

08/23/2018

CHECKED BY: M. FISHER

08/23/2018

MAR PROJ ENGR: C. TORRES

DGN ENGR MNGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

REVISION

DATE

BY

FED.AID
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

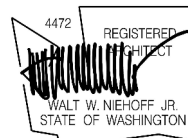
10 WA

JOB NUMBER

18W121

CONTRACT NO.

00****

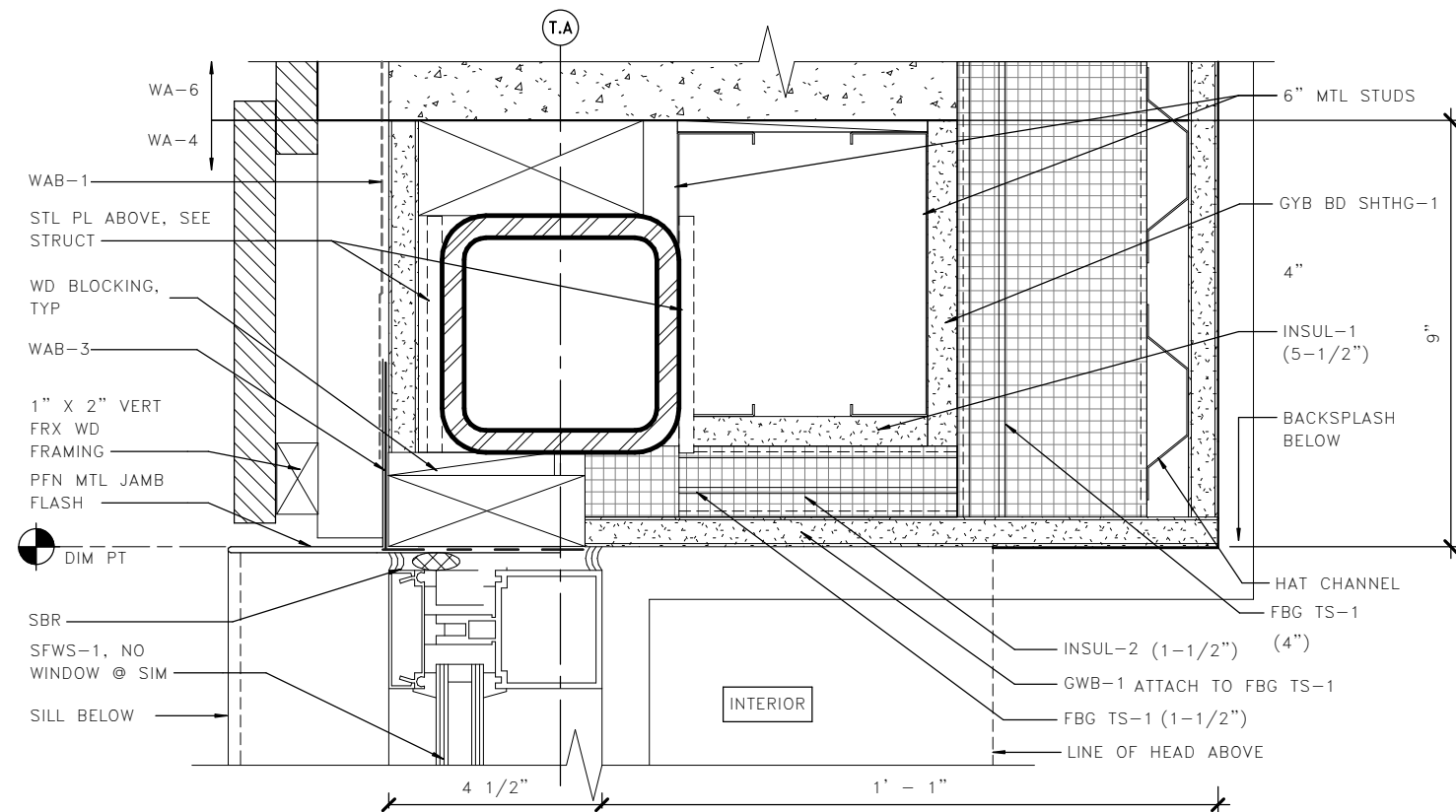


08/23/18

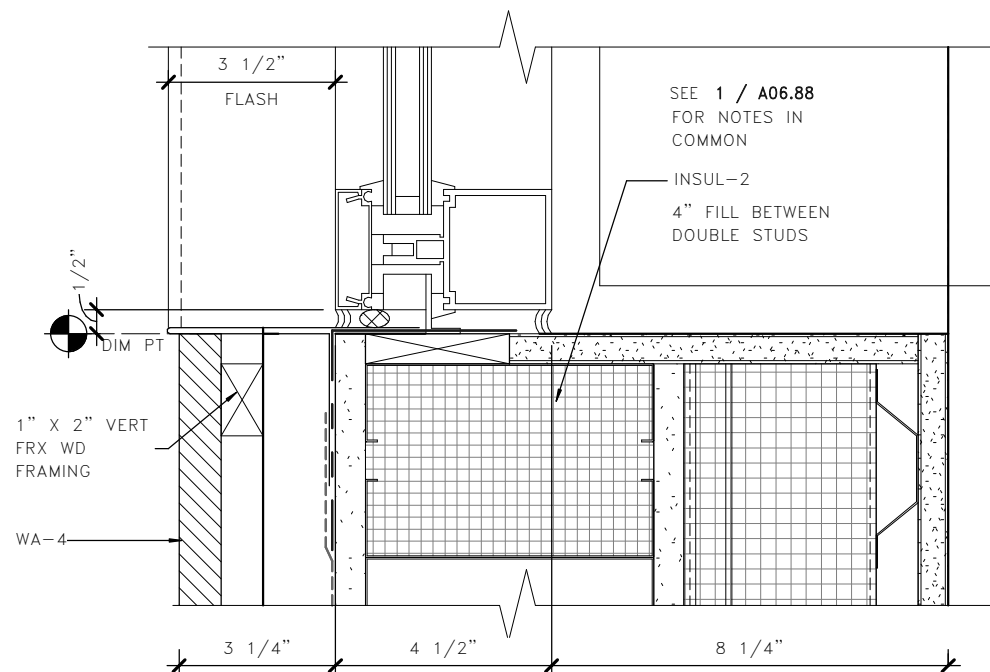


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TOLL PLAZA - WINDOW DETAILS

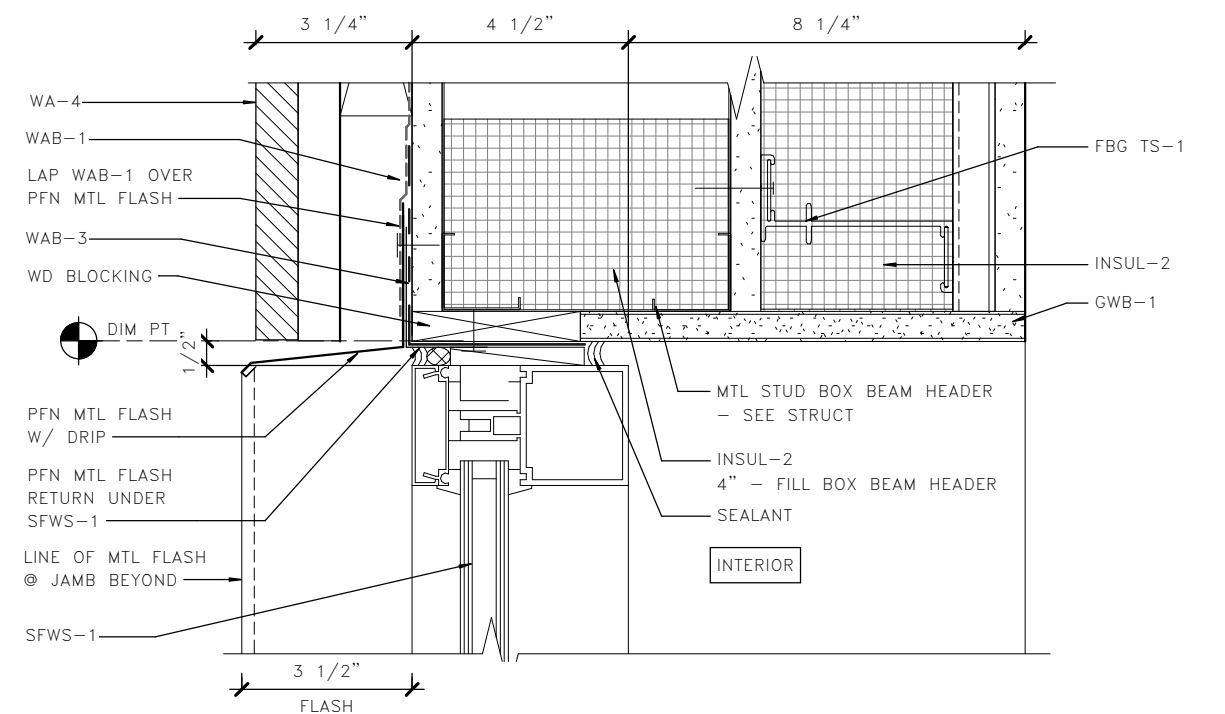
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1032
OF
1521
SHEETS



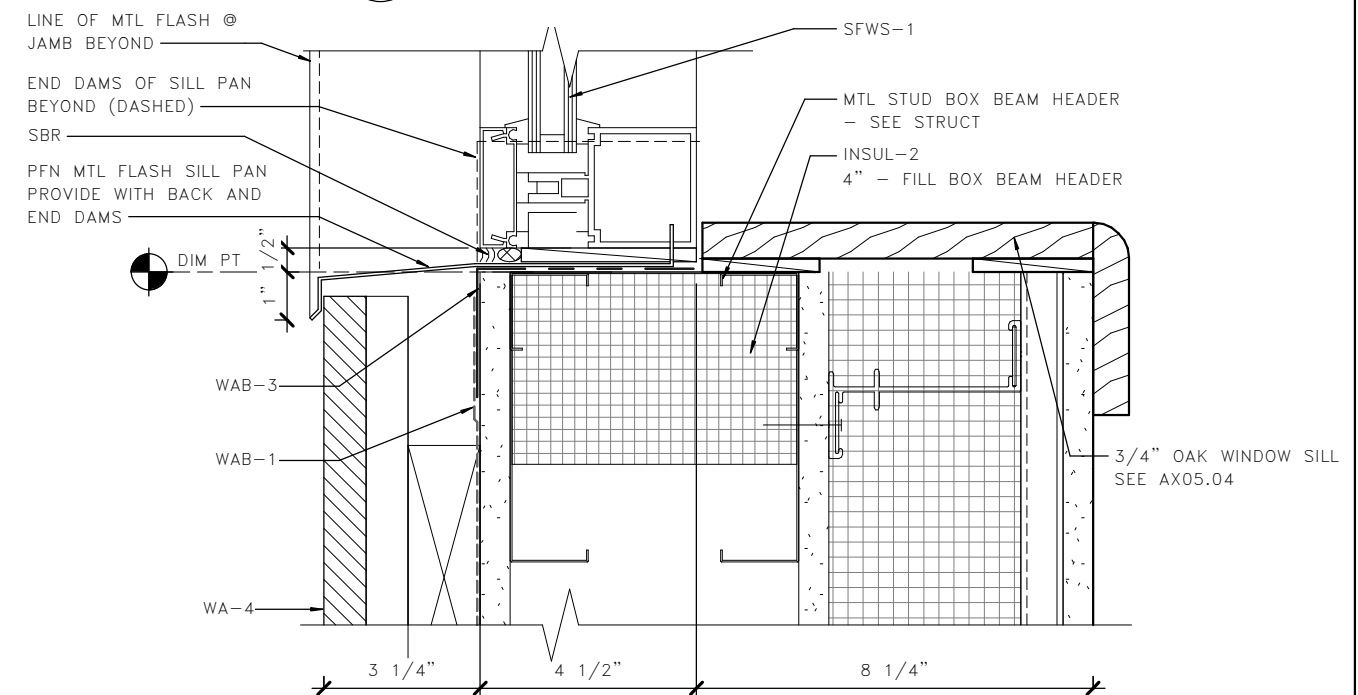
1 SFWS-1 JAMB @ STUDS - TOLL
A06.88



3 SFWS-1 JAMB @ STUDS - TOLL
A06.88



2 SFWS-1 HEAD AT STUDS - TOLL
A06.88



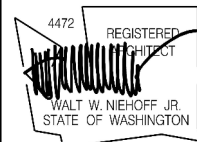
4 SFWS-1 SILL AT STUDS - TOLL
A06.88



LMN

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DESIGNED BY:	H. FITZPATRICK	08/23/2018			10	WA
ENTERED BY:	G. BISHOP	08/23/2018			JOB NUMBER	
CHECKED BY:	M. FISHER	08/23/2018			18W121	
MAR PROJ ENGR:	C. TORRES				CONTRACT NO.	
DGN ENGR MNGR:	N. MCINTOSH				00****	
ASST SECRETARY:	A. SCARTON				REVISION	DATE BY

DATE

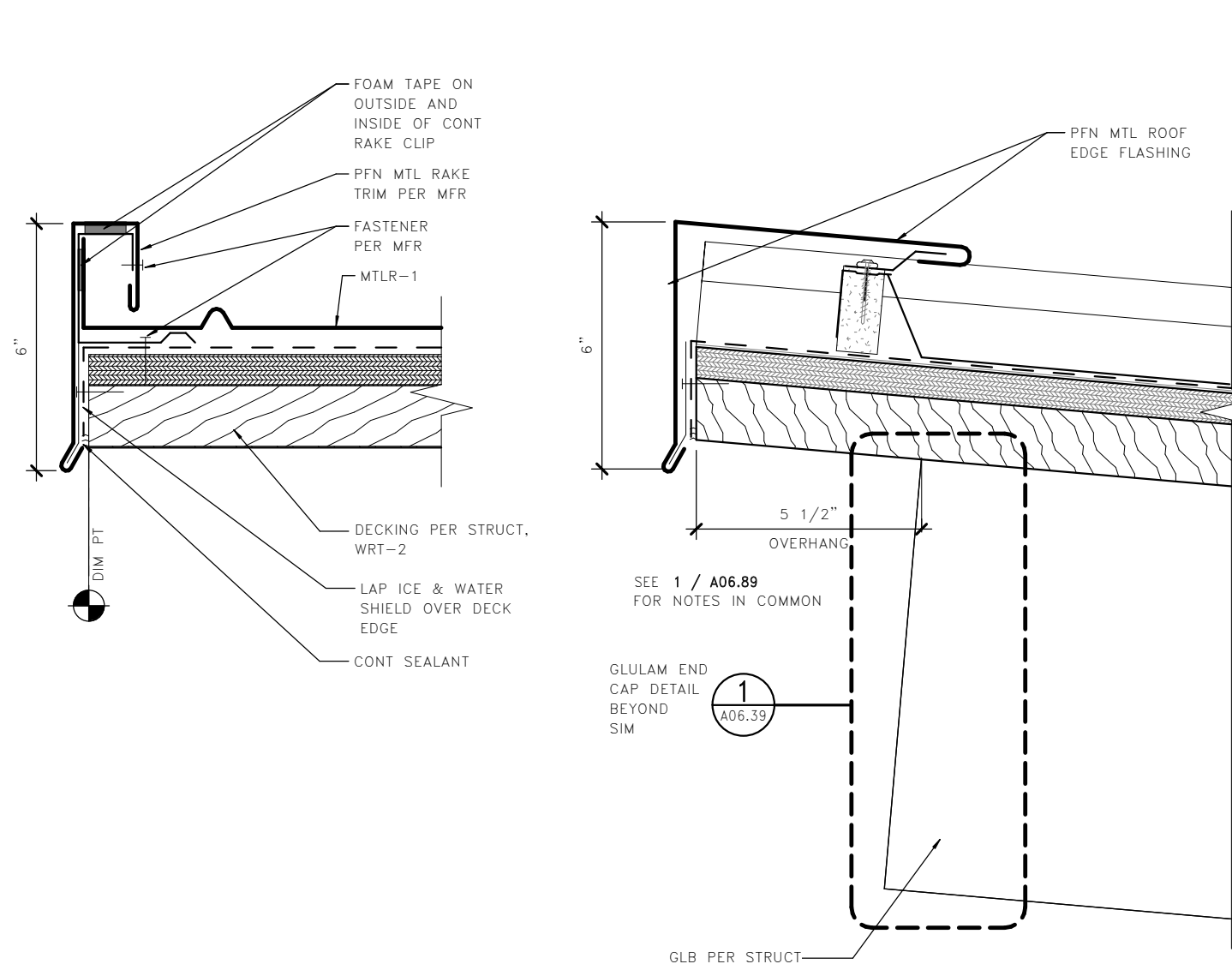


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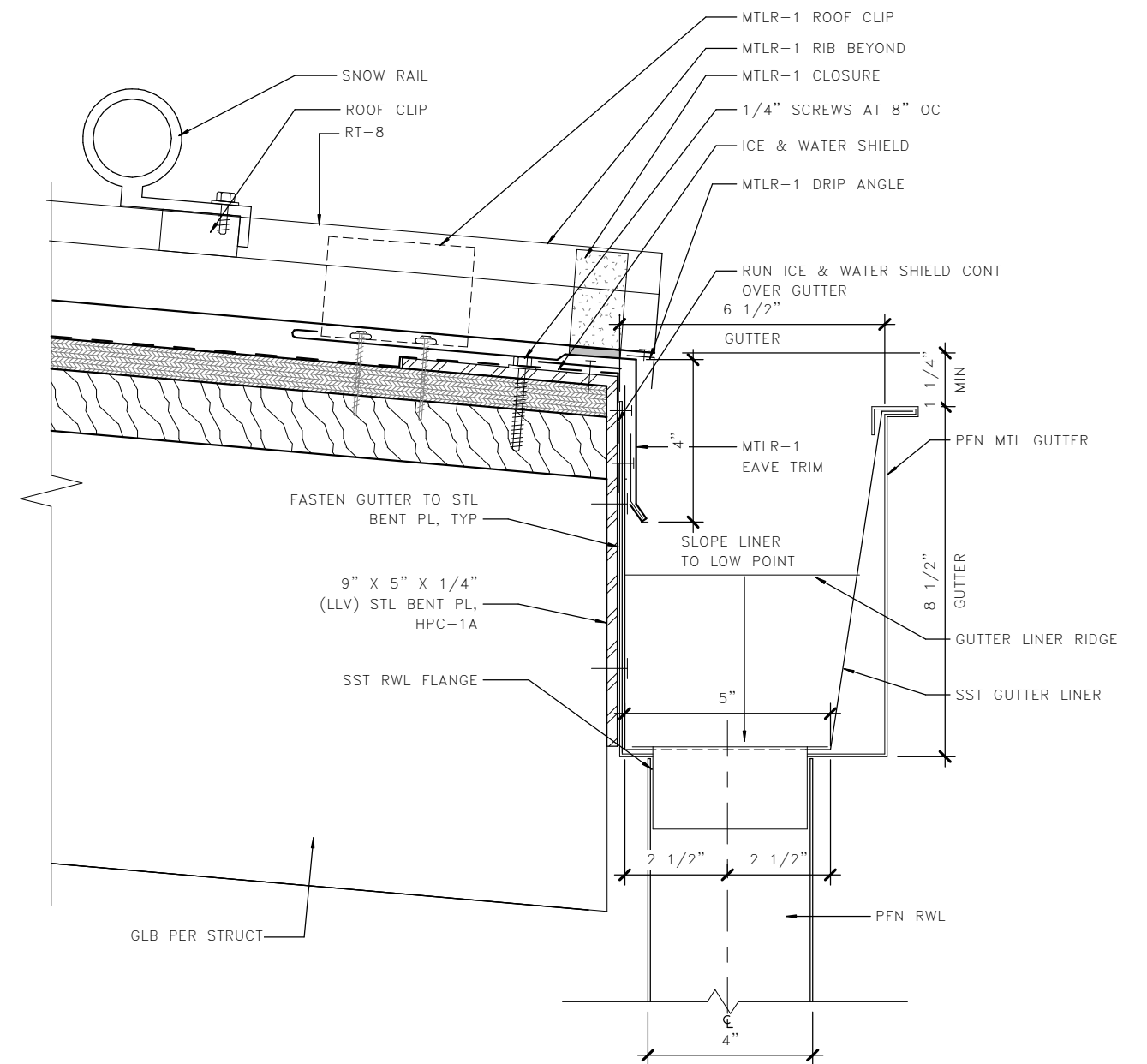
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TOLL PLAZA - WINDOW DETAILS

A06.88
SHEET
1033
OF
1521
SHEETS



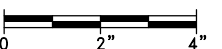
1 TOLL CANOPY – RAKE DEATIL
A06.89

2 TOLL CANOPY – EDGE DETAIL
A06.89

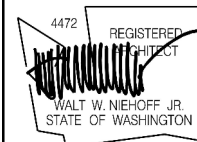


3 TOLL CANOPY – GUTTER DETAIL
A06.89

LMN



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SUBMITTAL DATE: 08/23/2018	MFISHER				WA-2017-007-00
DESIGNED BY: H. FITZPATRICK	08/23/2018				REGION NO. STATE
ENTERED BY: G. BISHOP	08/23/2018				10 WA
CHECKED BY: M. FISHER	08/23/2018				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DGN ENGR MNGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00****
	REVISION	DATE	BY		

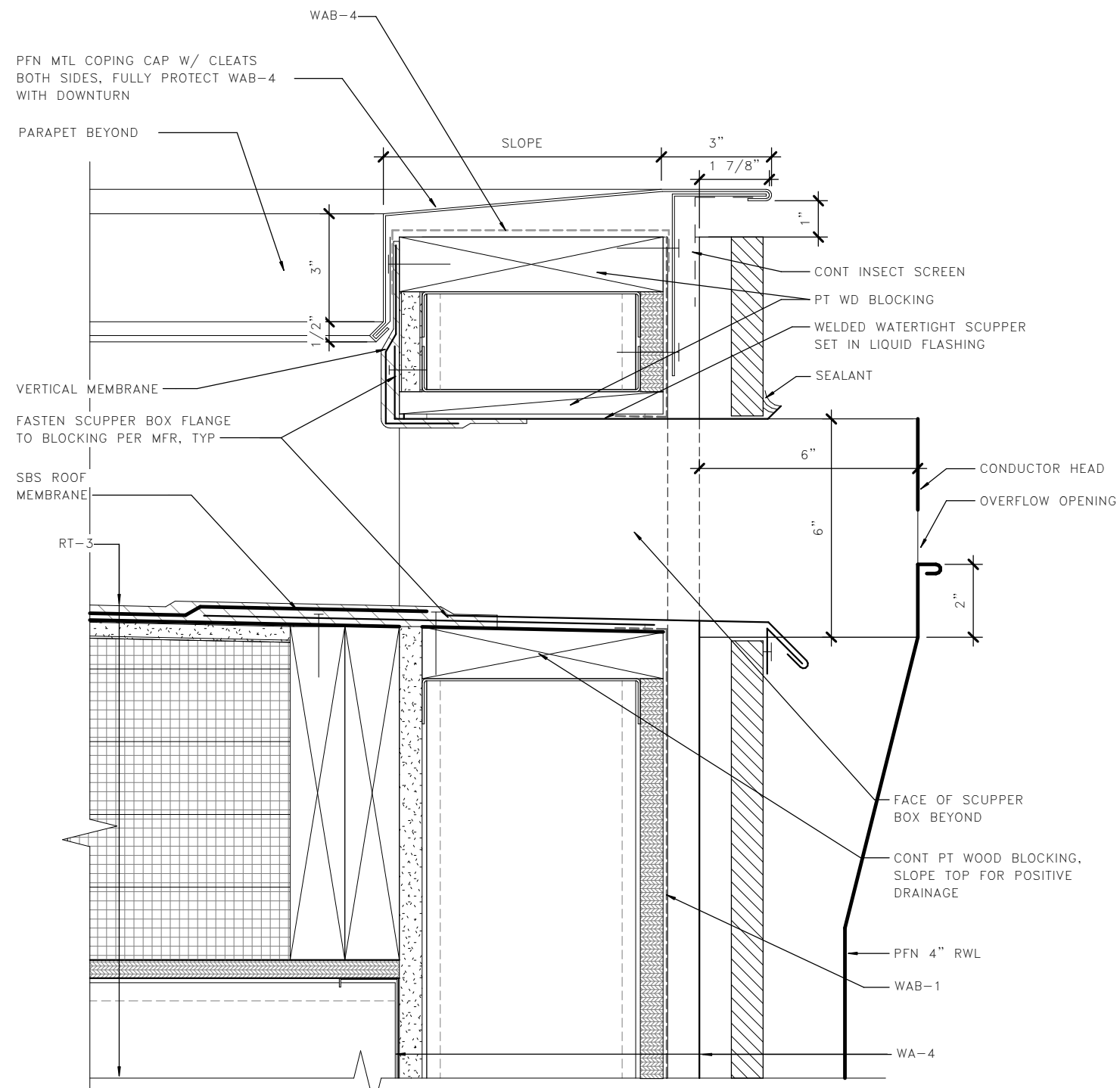


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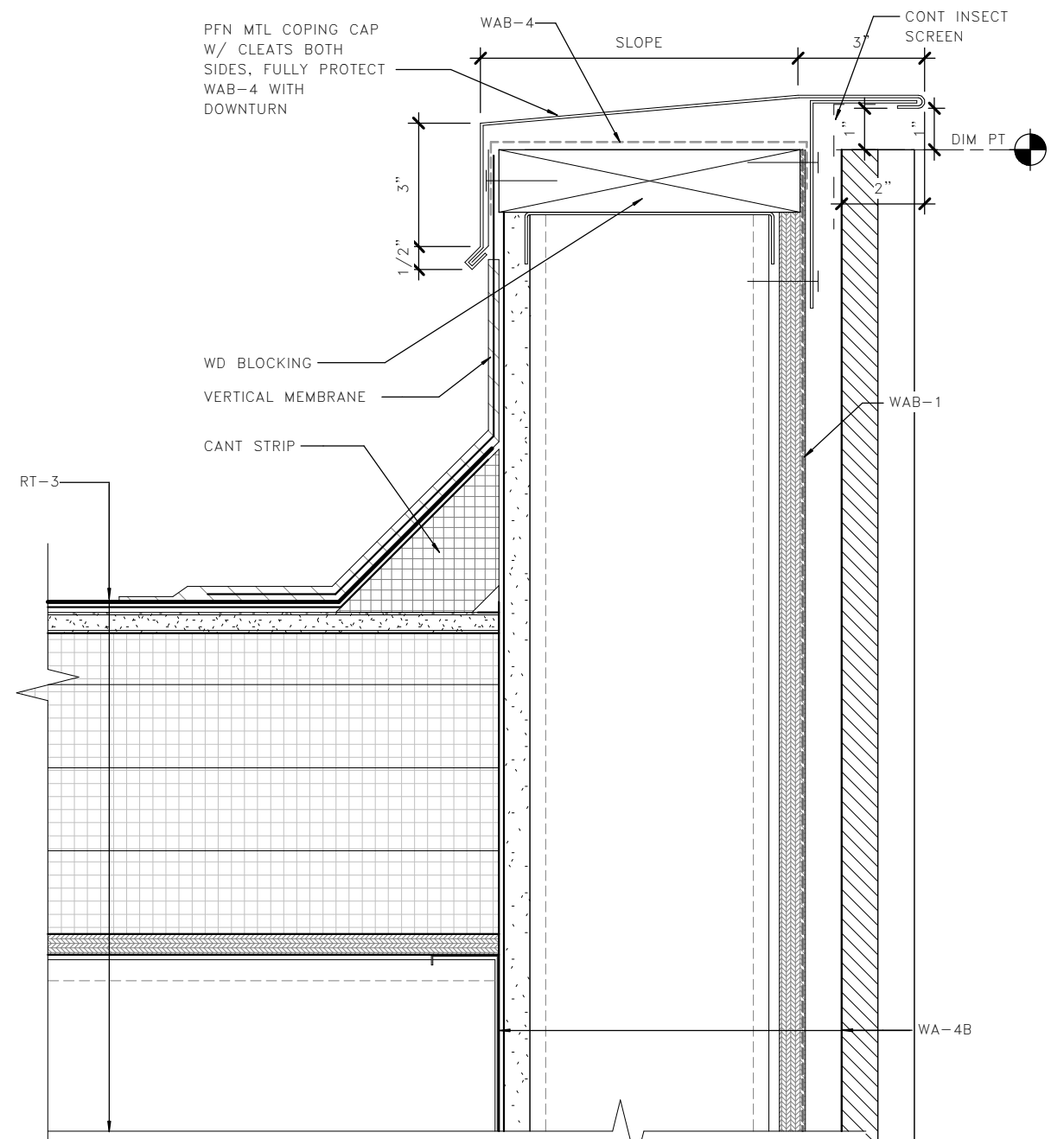


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TOLL PLAZA – ROOF DETAILS

A06.89
SHEET
1034
OF
1521
SHEETS



1 ROOF EDGE AT SCUPPER – TOLL
A06.90



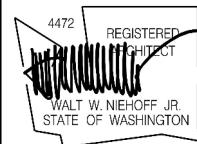
2 TYP PARAPET DETAIL – TOLL
A06.90

LMN



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PRINTED: 9/21/2018 4:49:21 PM	LAST PRINTED BY: MFISHER				WA-2017-007-00	
SUBMITTAL DATE: 08/23/2018					REGION NO. 10 STATE WA	
DESIGNED BY: H. FITZPATRICK	08/23/2018				JOB NUMBER 18W121	
ENTERED BY: G. BISHOP	08/23/2018				CONTRACT NO. 00****	
CHECKED BY: M. FISHER	08/23/2018					
MAR PROJ ENGR: C. TORRES						
DGN ENGR MNGR: N. MCINTOSH						
ASST SECRETARY: A. SCARTON						
	REVISION	DATE	BY			

DATE

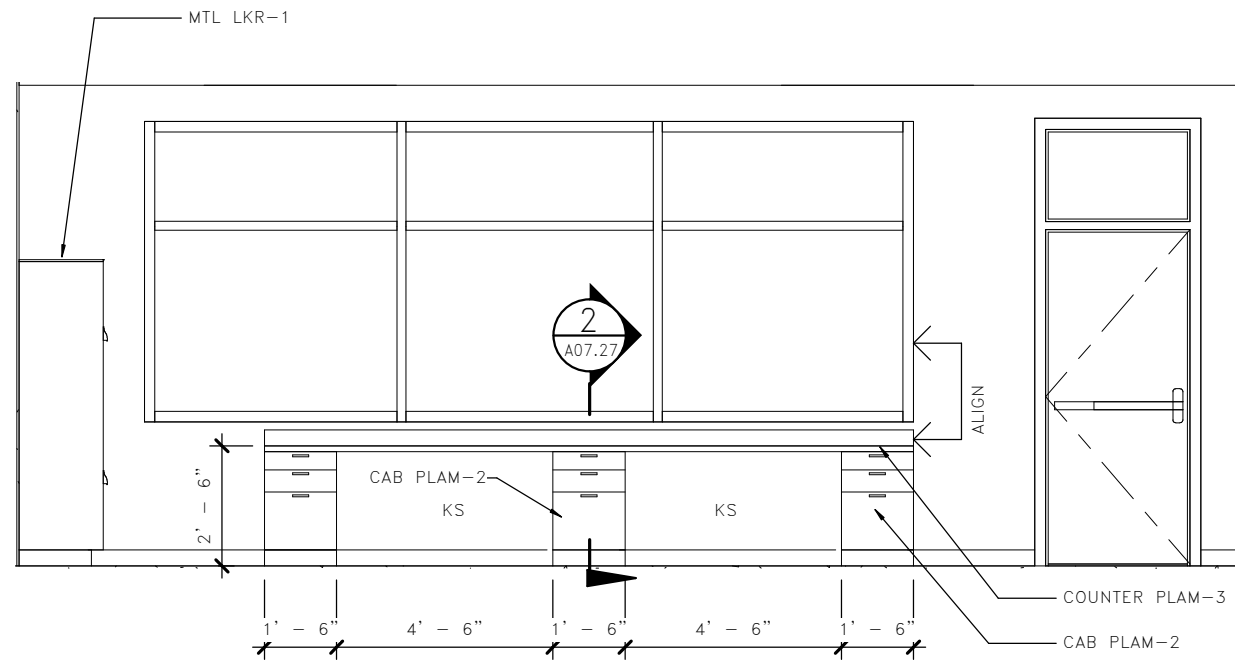


08/23/18
DATE

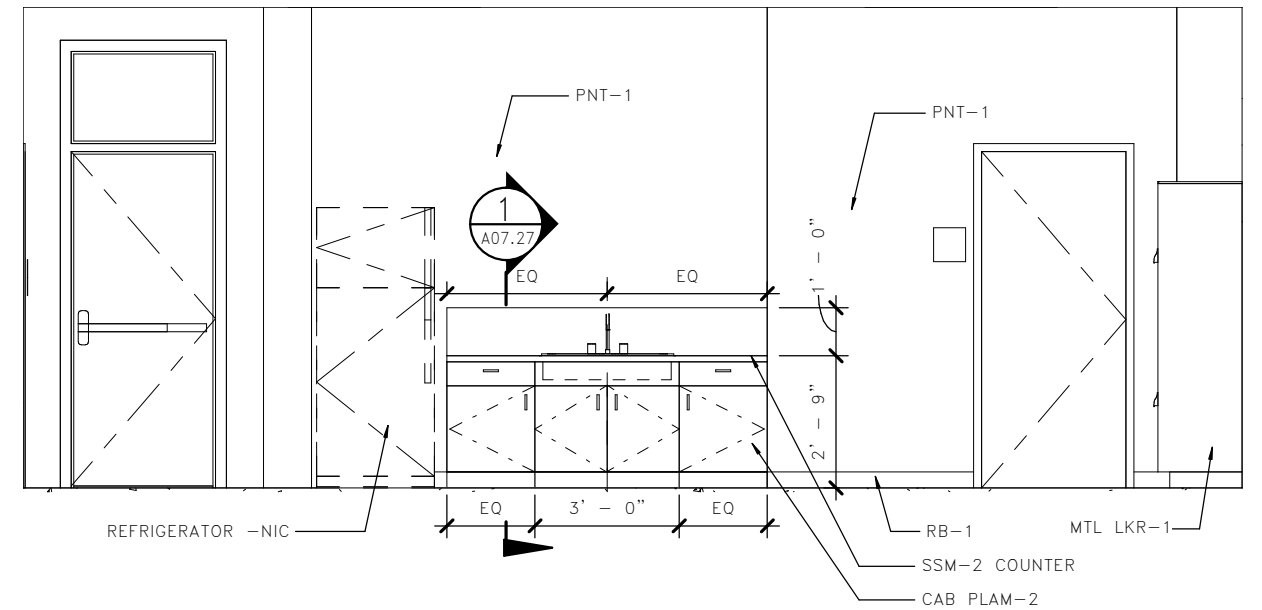


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TOLL PLAZA – ROOF DETAILS

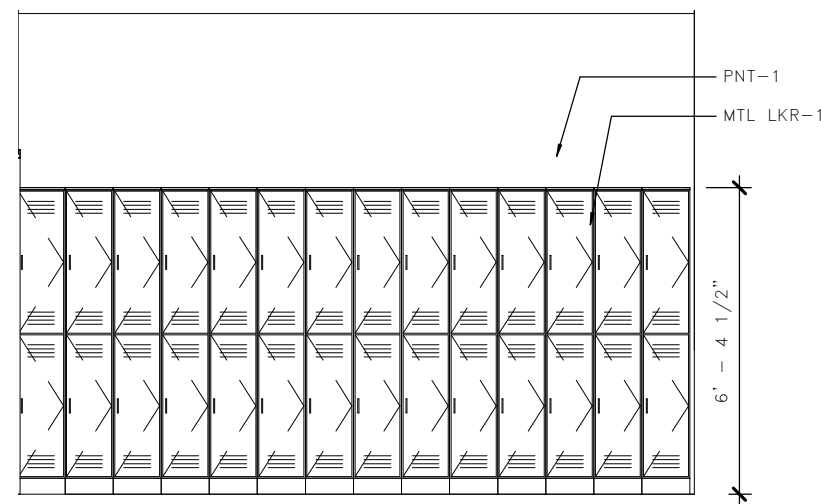
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1035
OF
1521
SHEETS



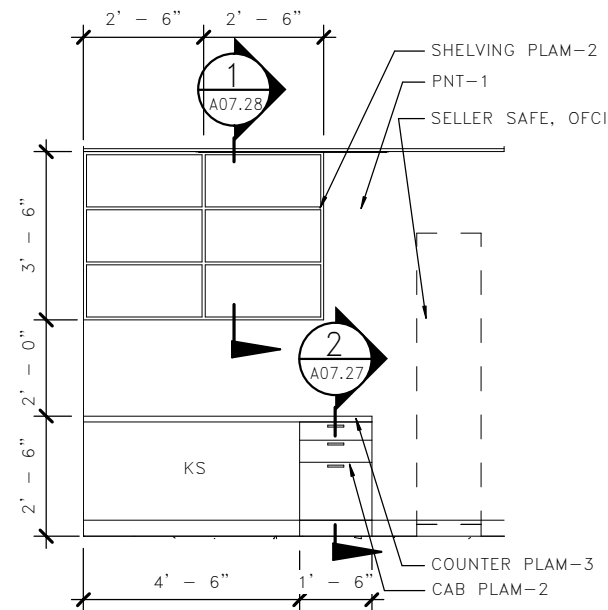
1 BREAKROOM 105 - NORTH
A07.01



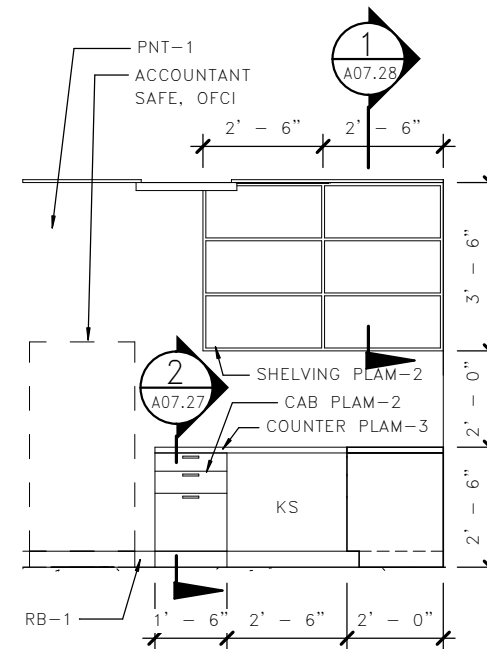
2 BREAKROOM 105 - SOUTH
A07.01



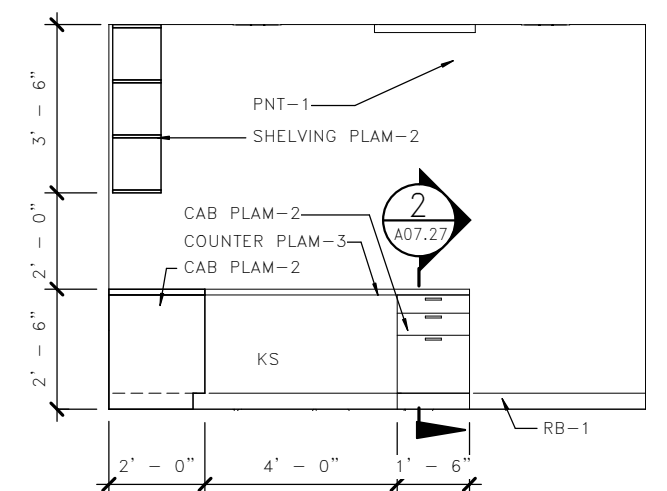
3 LOCKERS 106 - WEST
A07.01



4 SELLER SAFE 112 - EAST
A07.01

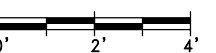


5 ACCT RM 113 - WEST
A07.01



6 ACCT RM 113 - NORTH
A07.01

LMN



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08/23/2018

MAR PROJ ENGR: C. TORRES

DGN ENGR MNGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

REVISION

DATE

BY

FED.AID
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WA

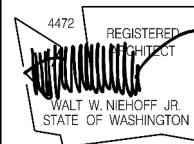
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18W121

CONTRACT NO.

00****

DATE



08/23/18
DATE



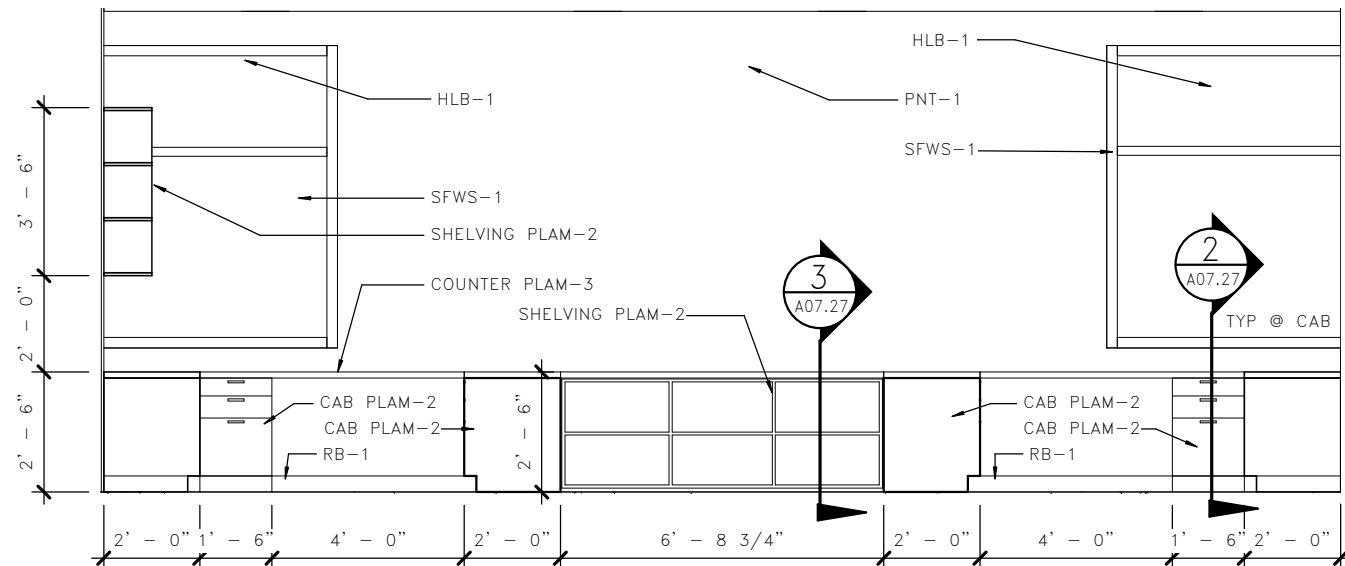
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - INTERIOR ELEVATIONS

A07.01

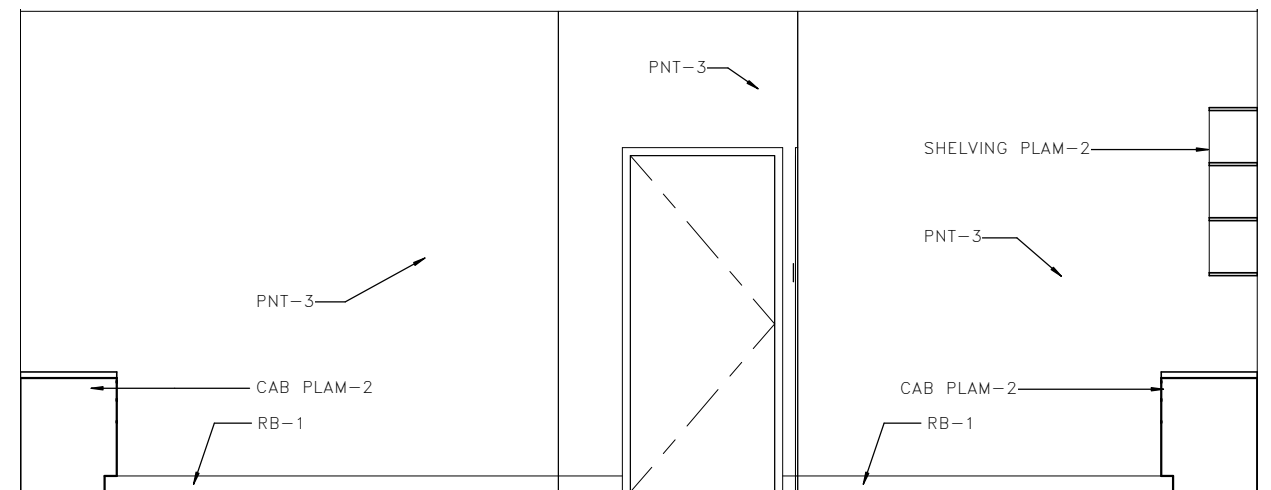
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OF
1521

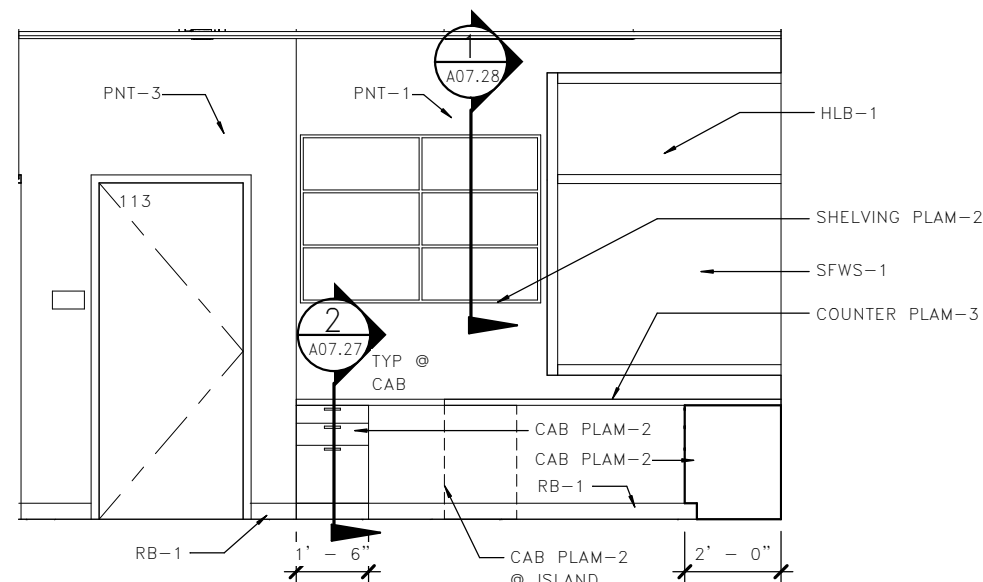
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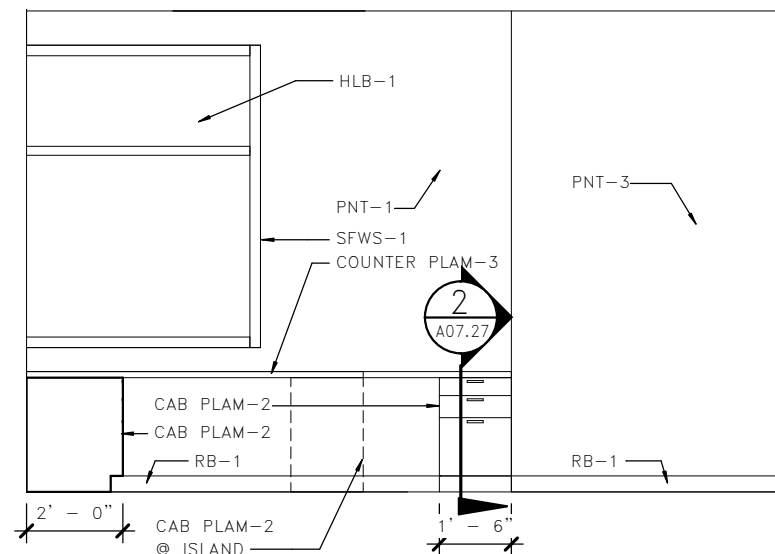
1 SUPERVISOR 117 - EAST
A07.02



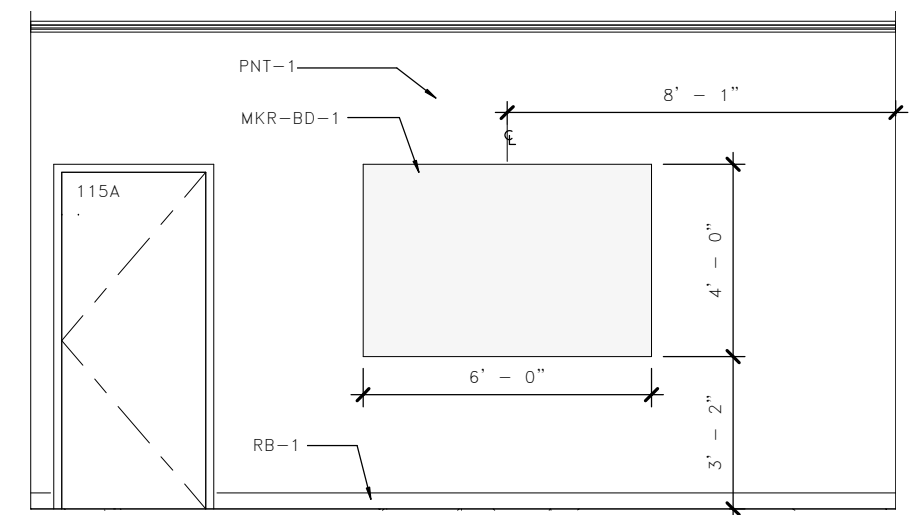
2 SUPERVISOR 117 - WEST
A07.02



3 SUPERVISOR 117 - NORTH
A07.02

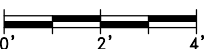


4 SUPERVISOR 117 - SOUTH
A07.02



5 CONFERENCE 115 - NORTH
A07.02

LMN



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LAST PRINTED BY:

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08/23/2018

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H. FITZPATRICK

ENTERED BY:

G. BISHOP

CHECKED BY:

M. FISHER

08/23/2018

MAR PROJ ENGR:

C. TORRES

DGN ENGR MNGR:

N. MCINTOSH

ASST SECRETARY:

A. SCARTON

REVISION

DATE

BY

FED.AID
PROJ.NO.

WA-2017-007-00

REGION NO.

10

STATE

WA

JOB NUMBER

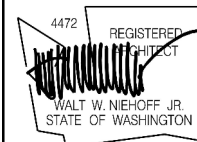
18W121

CONTRACT NO.

00****

DATE

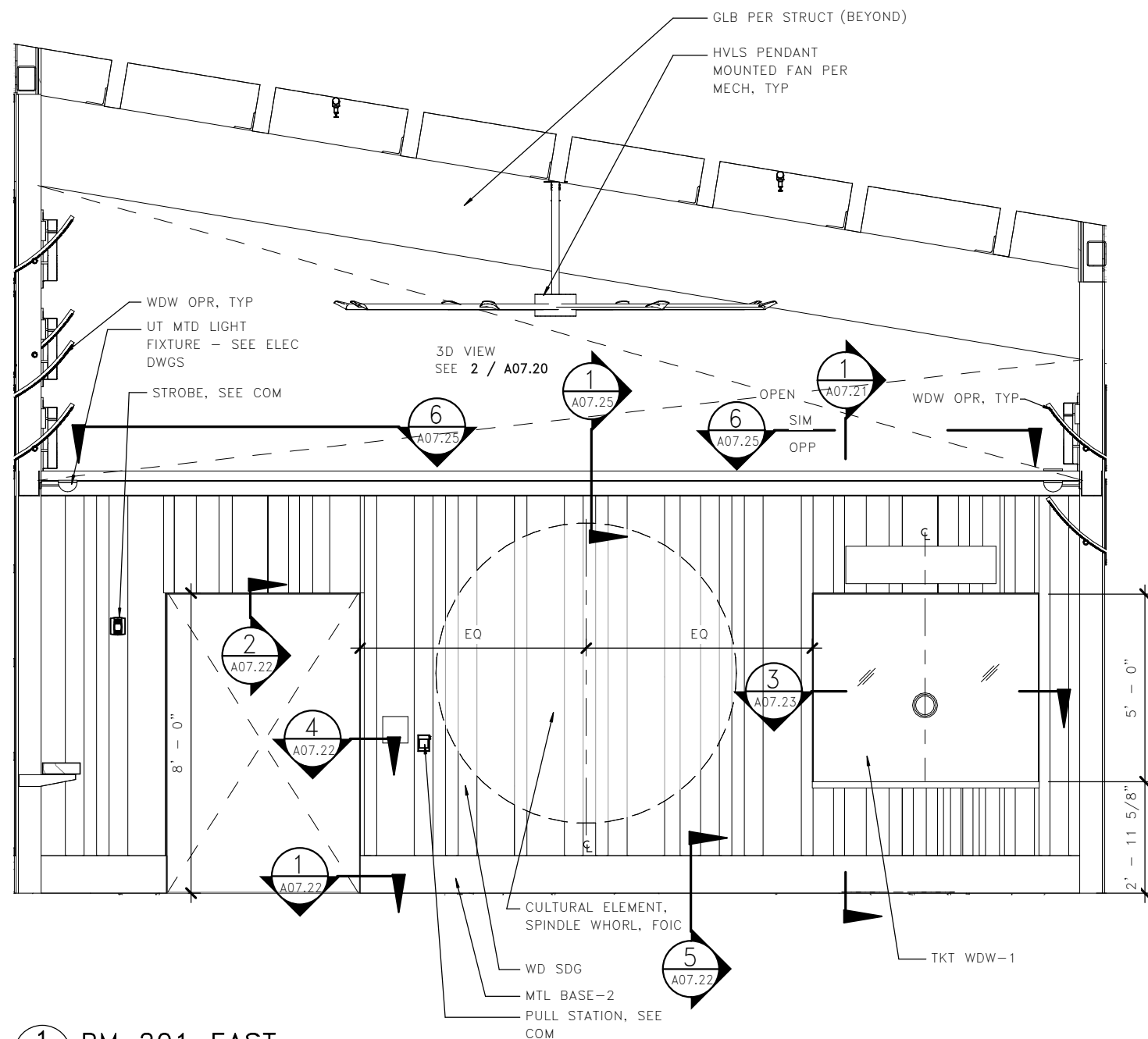
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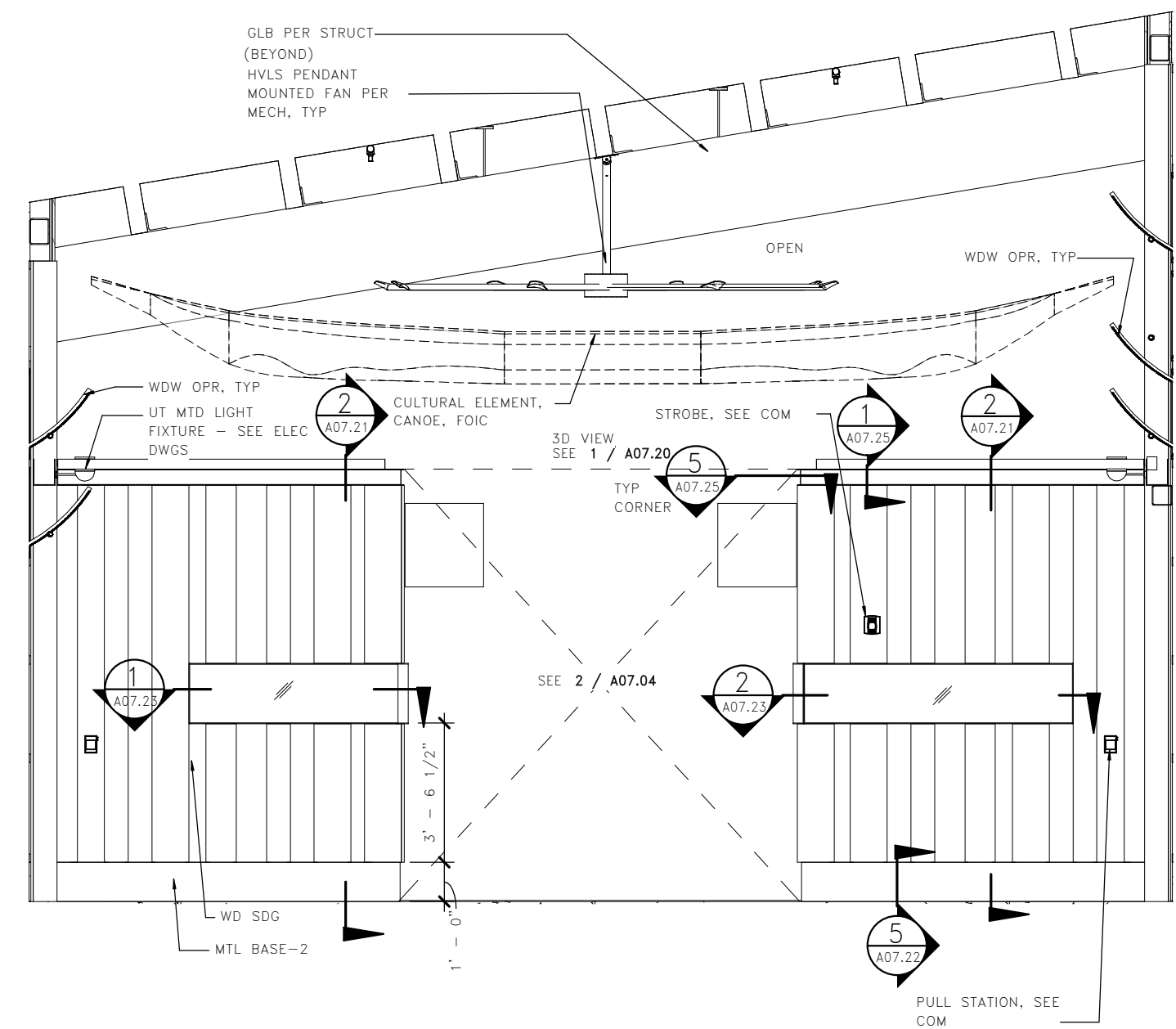
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - INTERIOR ELEVATIONS

A07.02

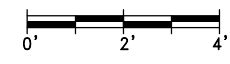
SHEET
1037
OF
1521
SHEETS



1 RM 201 EAST
A07.03



2 RM 201 WEST
A07.03



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ENTERED BY: G. BISHOP		08/23/2018				REGION NO. STATE
CHECKED BY: M. FISHER		08/23/2018				10 WA
MAR PROJ ENGR: C. TORRES						JOB NUMBER
DGN ENGR MNGR: N. MCINTOSH						18W121
ASST SECRETARY: A. SCARTON						CONTRACT NO.
		REVISION		DATE	BY	00****

4472 REGISTERED ARCHITECT

WALT W. NIEHOFF JR.

STATE OF WASHINGTON

DATE

08/23/18

DATE



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)

FERRY TERMINAL CONSTRUCTION

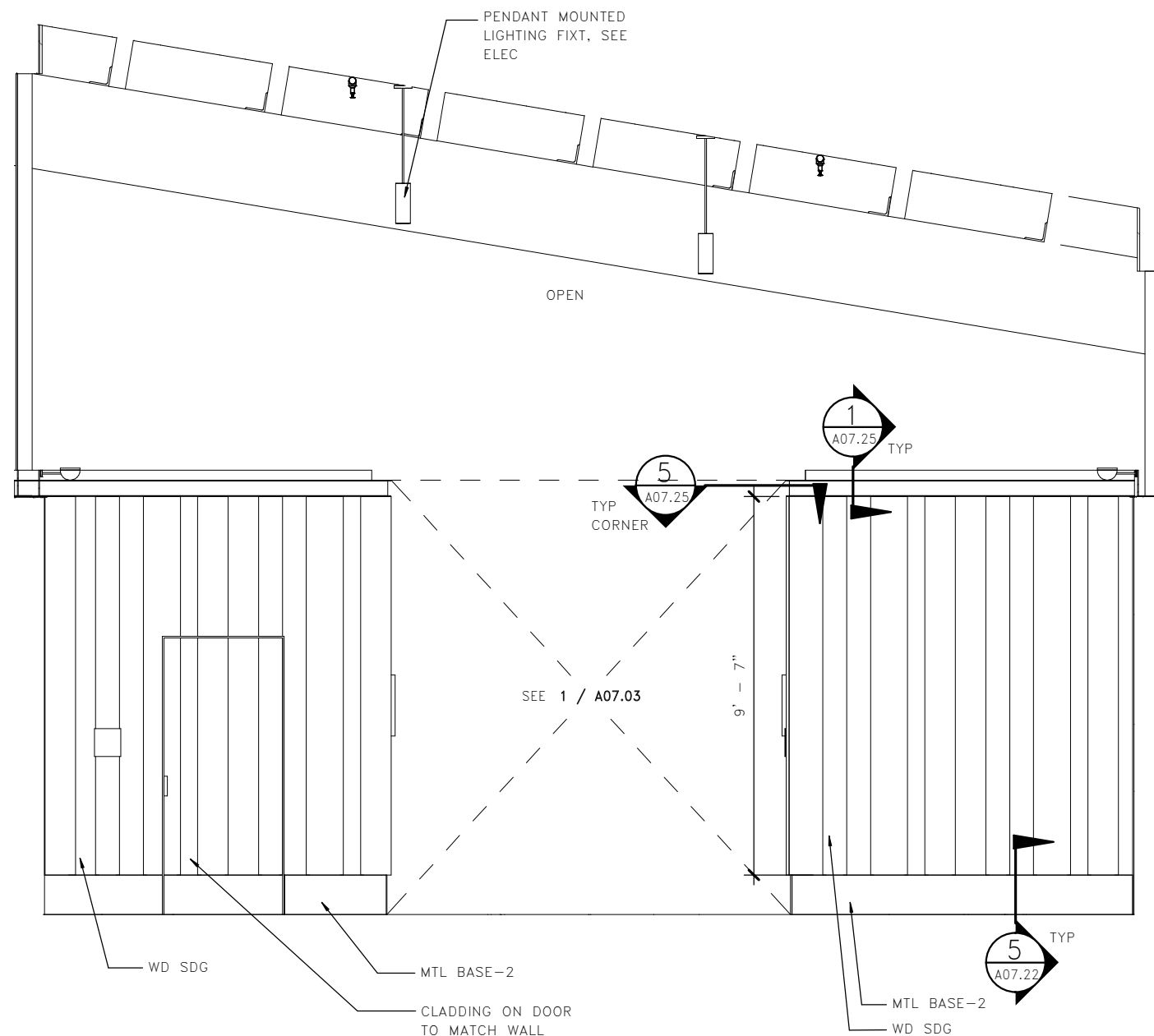
TERMINAL - INTERIOR ELEVATIONS

A07.03

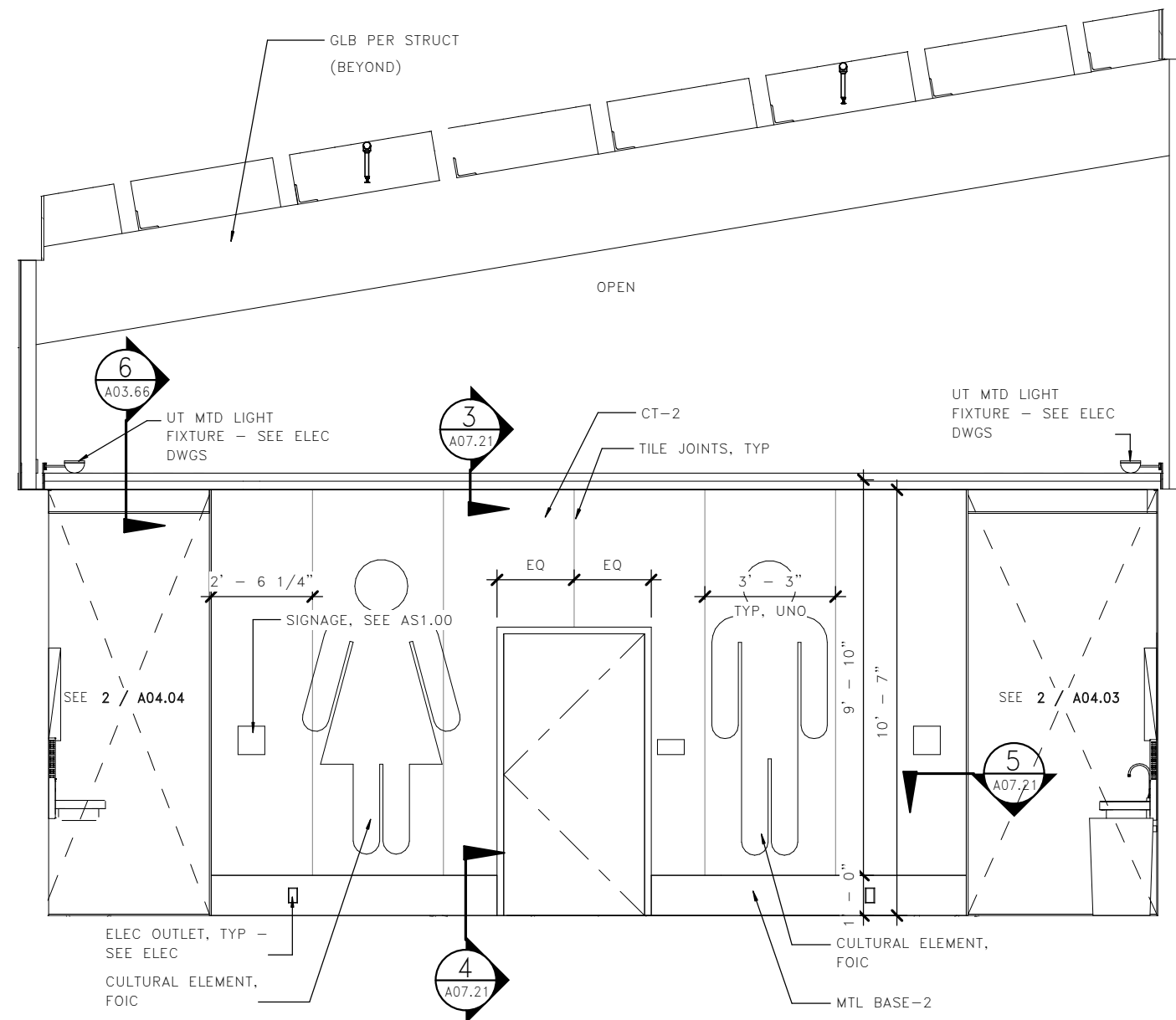
SHEET 1038

OF 1521

SHEETS

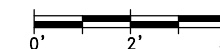


1 INTERIOR ELEVATION – VIEW TO EAST
A07.04



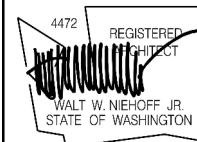
2 INTERIOR ELEVATION – VIEW TO WEST
A07.04

LMN



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DESIGNED BY: H. FITZPATRICK	08/23/2018			
ENTERED BY: G. BISHOP	08/23/2018			
CHECKED BY: M. FISHER	08/23/2018			
MAR PROJ ENGR: C. TORRES				
DGN ENGR MNGR: N. MCINTOSH				
ASST SECRETARY: A. SCARTON				
	REVISION	DATE	BY	

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

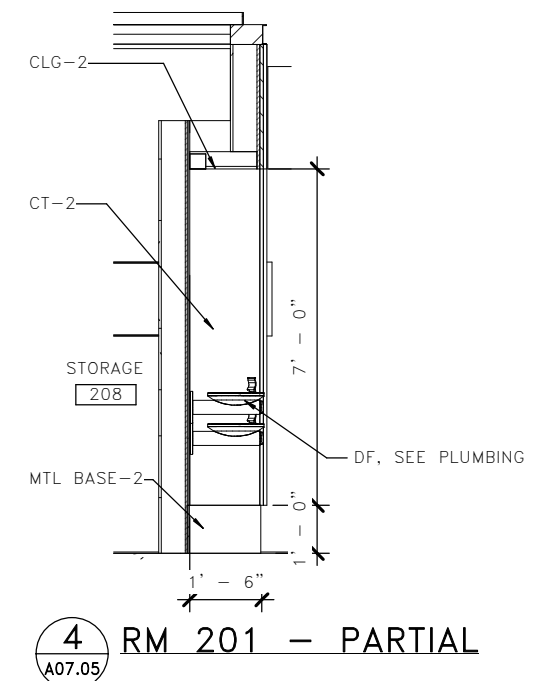
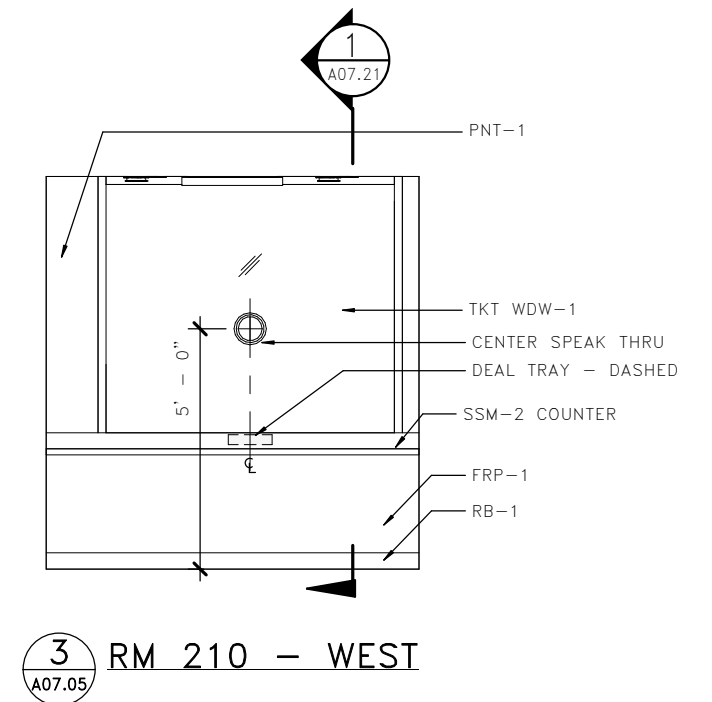
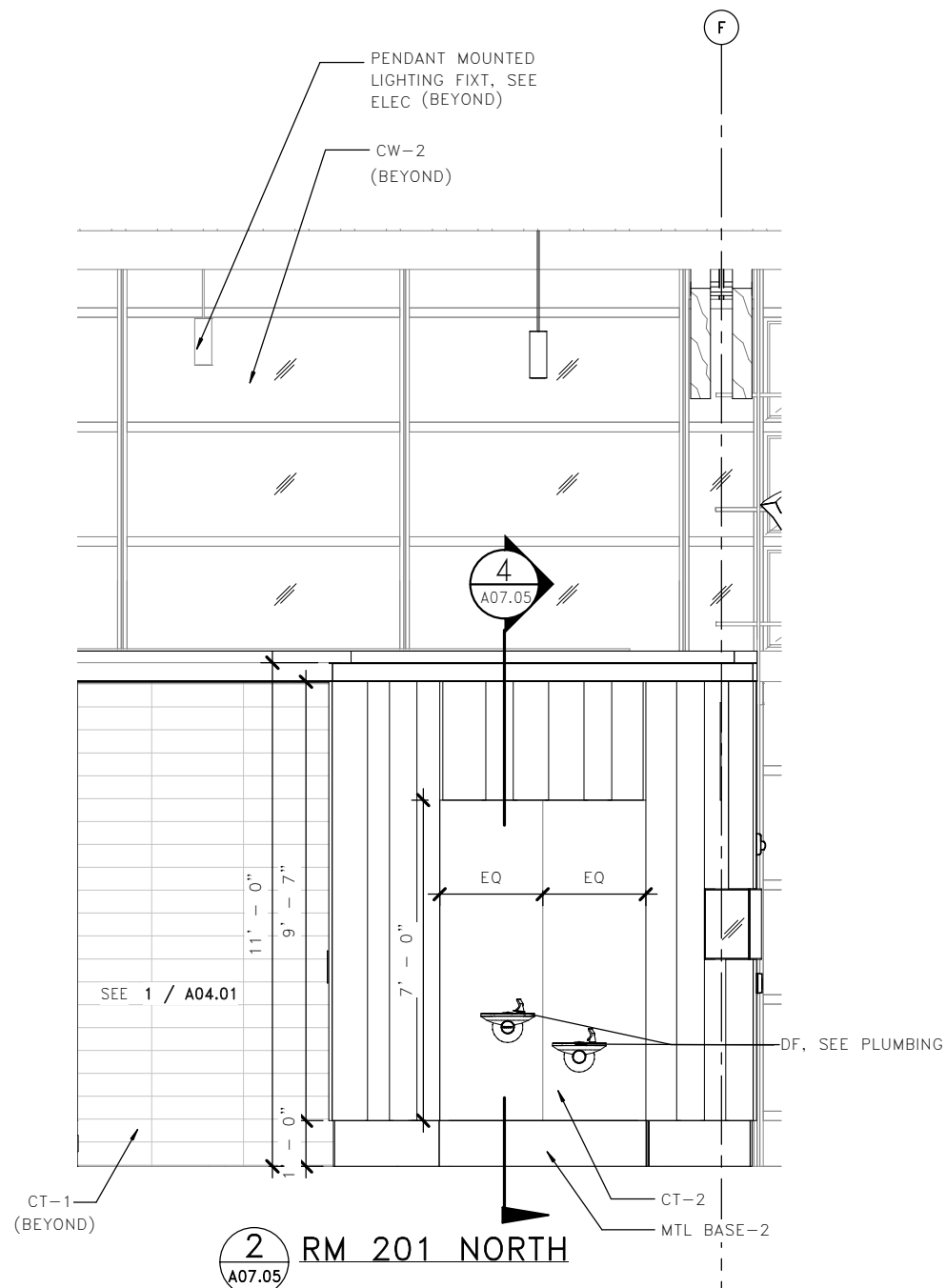
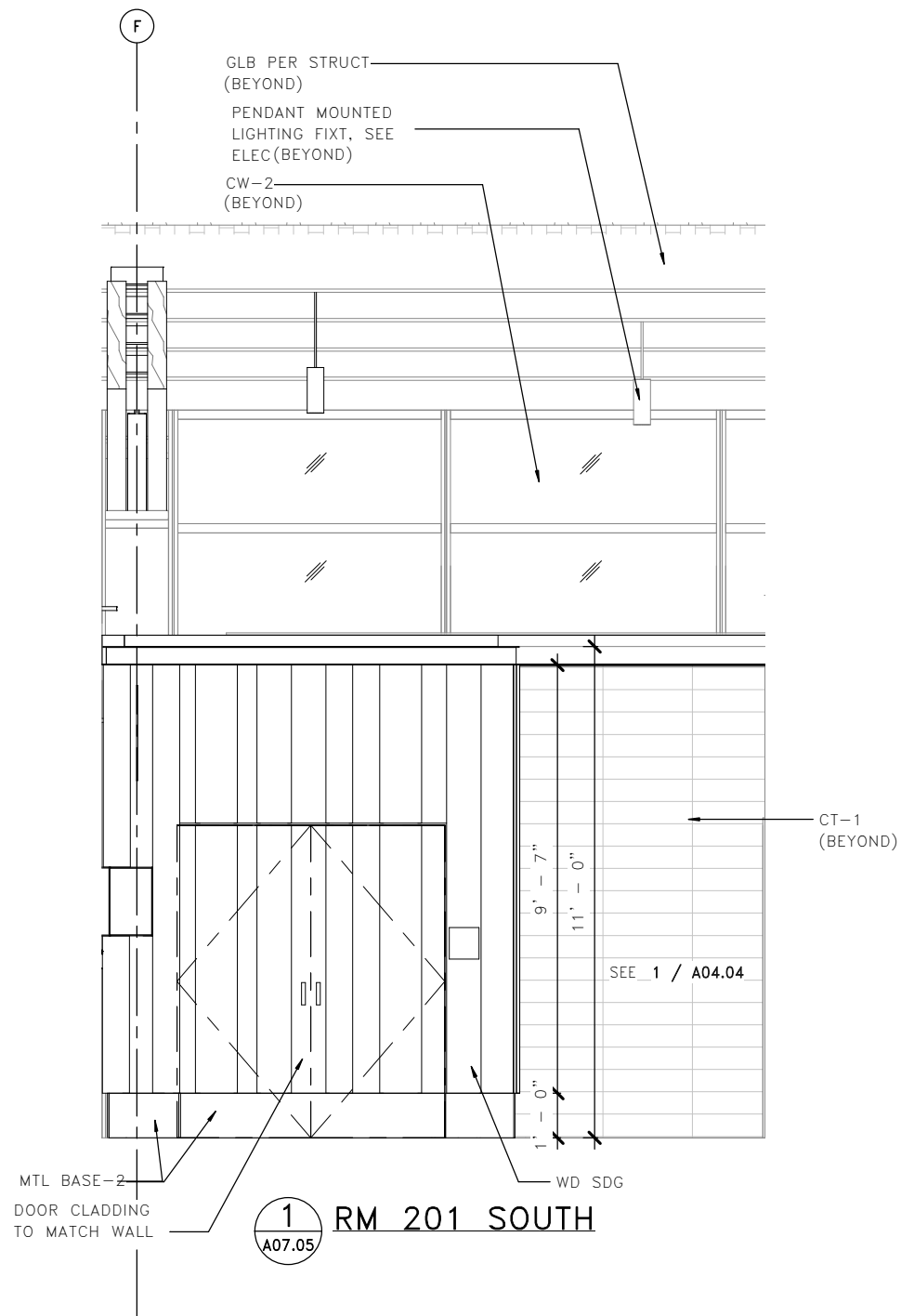


08/23/18
DATE



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL – INTERIOR ELEVATIONS

A07.04
SHEET 1039
OF 1521
SHEETS

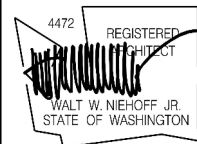


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ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	

DATE

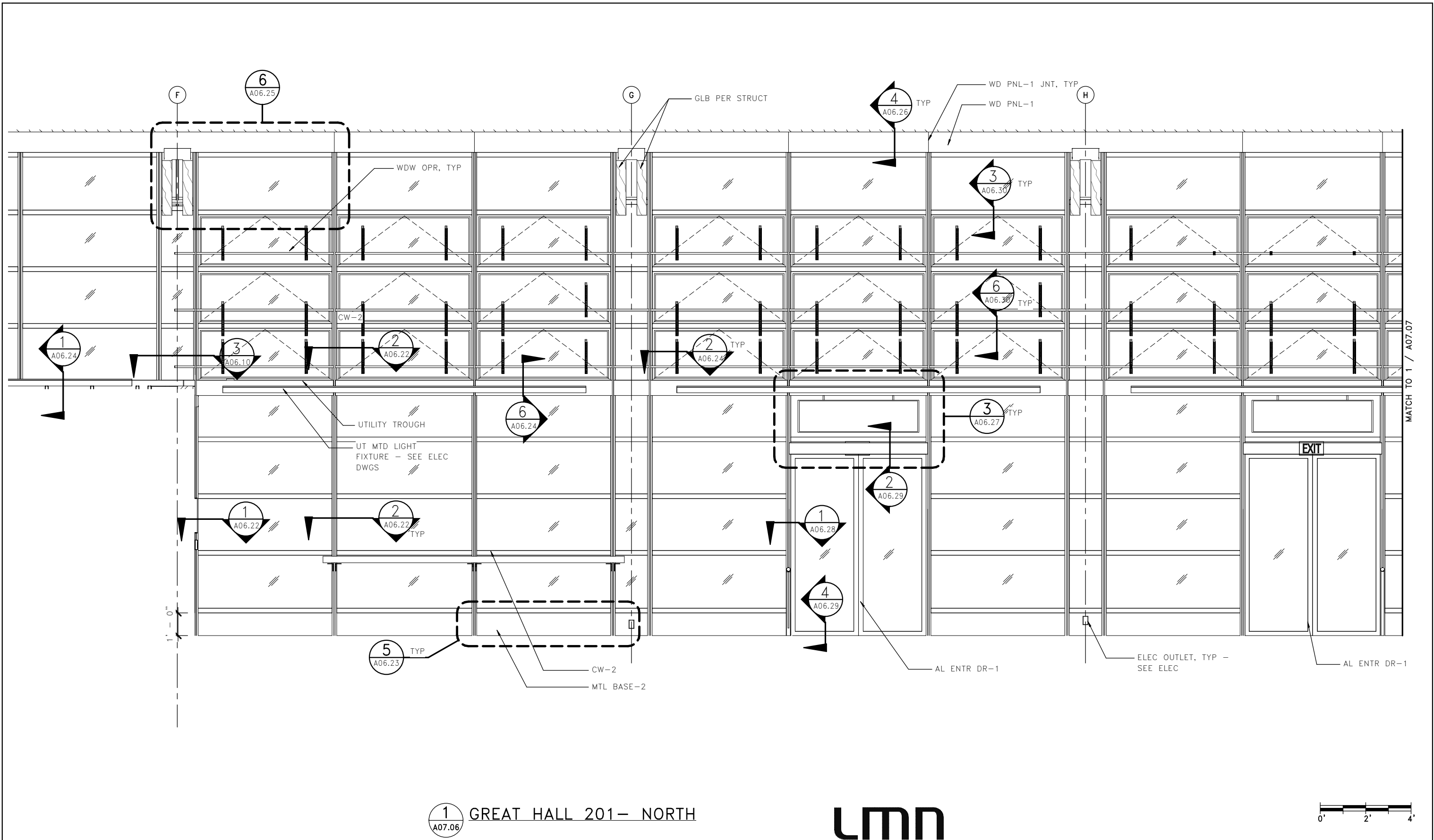


08/23/18
DATE

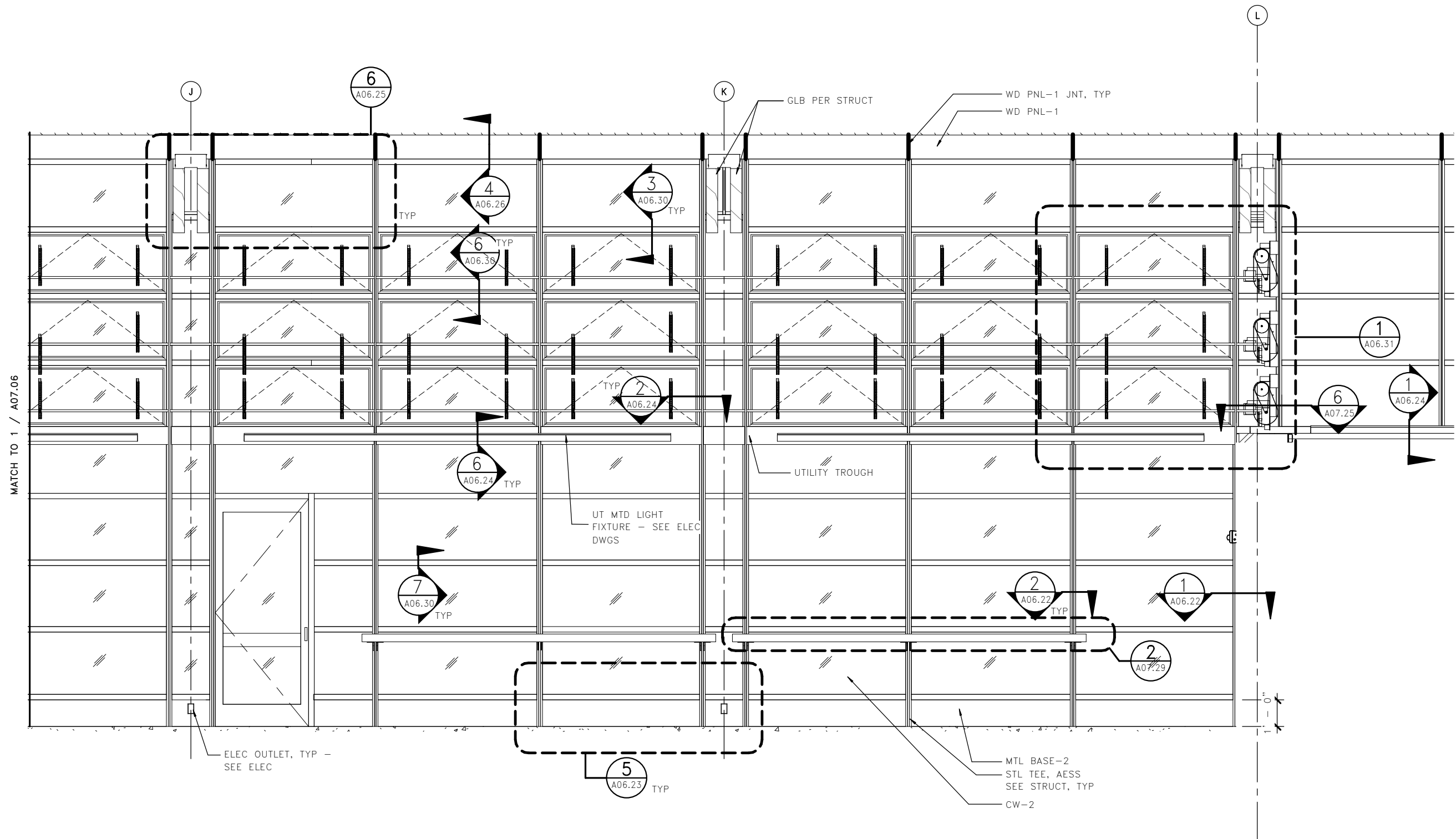


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - INTERIOR ELEVATIONS

A07.05
SHEET
1040
OF
1521
SHEETS

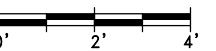


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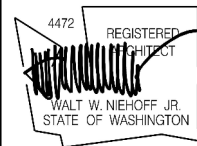
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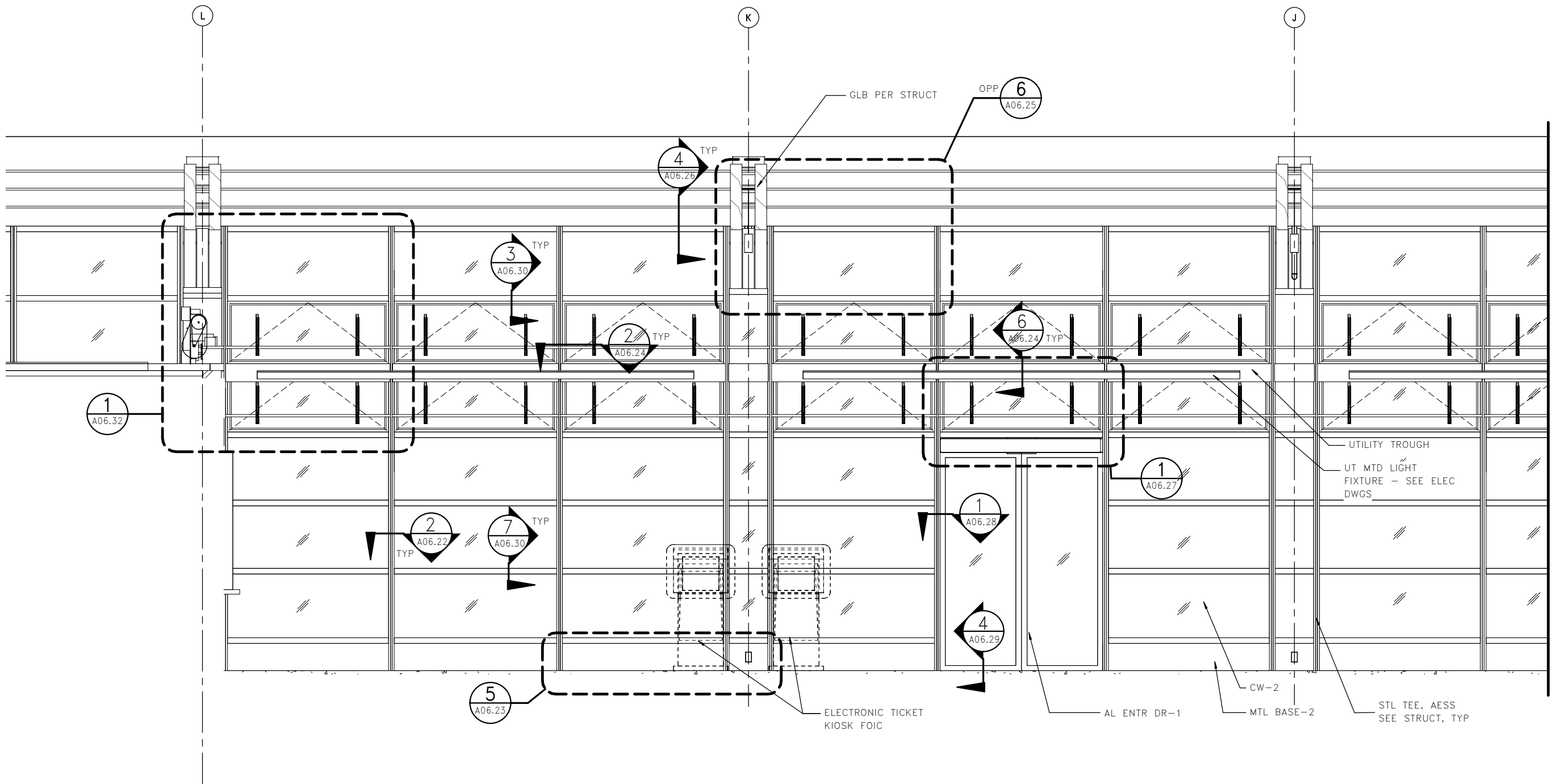


08/23/18
DATE

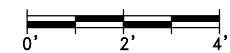


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - INTERIOR ELEVATIONS

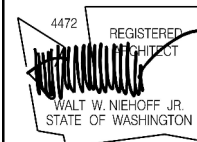
A07.07
SHEET
1042
OF
1521
SHEETS



1 GREAT HALL ROOM 201 SOUTH
A07.08



FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\LMN\mft-CENTRAL_90%.rvt					FED.AID PROJ.NO.	
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SUBMITTAL DATE: 08/23/2018					REGION NO. STATE	
DESIGNED BY: H. FITZPATRICK	08/23/2018				10 WA	
ENTERED BY: G. BISHOP	08/23/2018				JOB NUMBER	
CHECKED BY: M. FISHER	08/23/2018				18W121	
MAR PROJ ENGR: C. TORRES					CONTRACT NO.	
DGN ENGR MNGR: N. MCINTOSH					00****	
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		

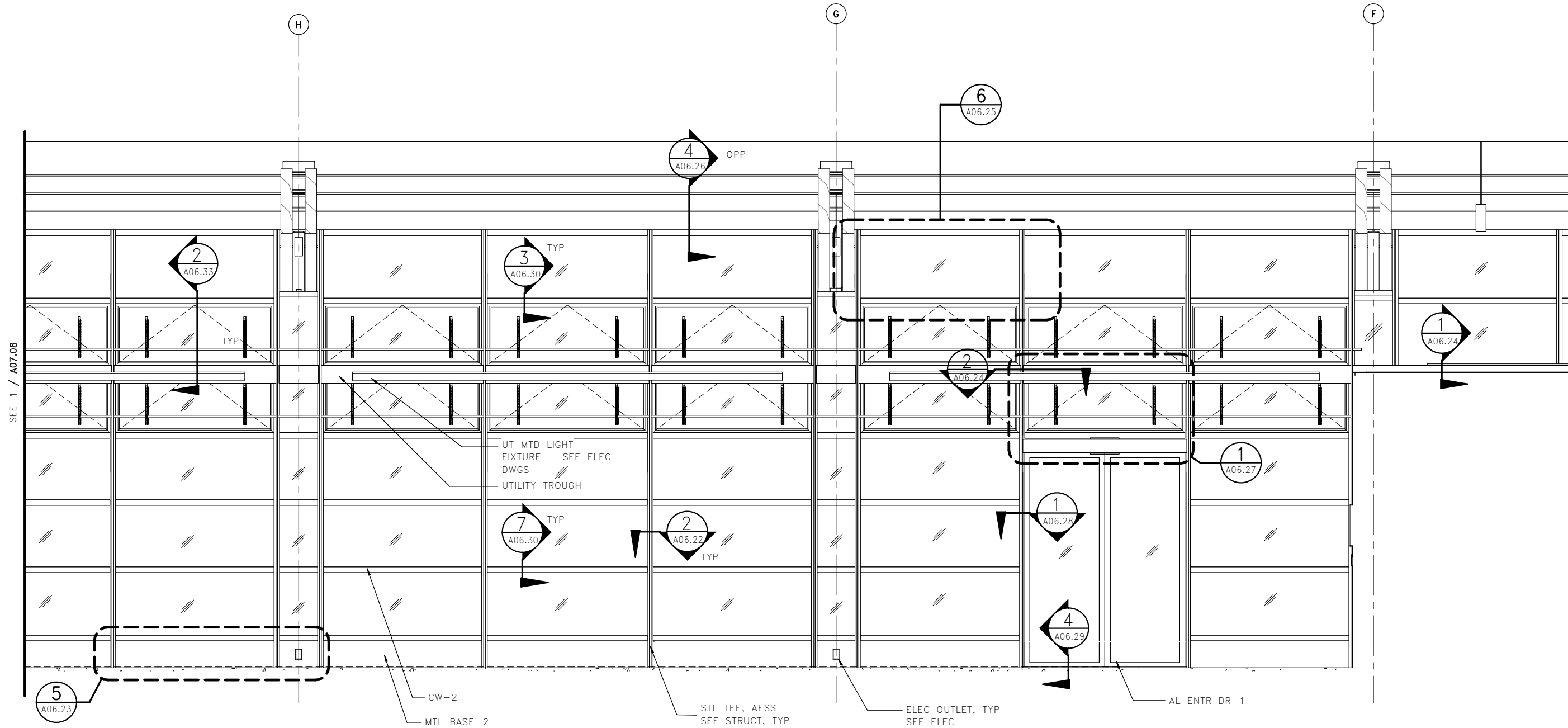


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DATE

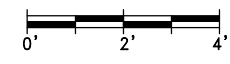


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - INTERIOR ELEVATIONS

A07.08
SHEET
1043
OF
1521
SHEETS



1 GREAT HALL ROOM 201 SOUTH



FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\LMN\mft-CENTRAL_90%.rvt						
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SUBMITTAL DATE: 08/23/2018		MFISHER				
DESIGNED BY: H. FITZPATRICK		08/23/2018				WA-2017-007-00
ENTERED BY: G. BISHOP		08/23/2018				
CHECKED BY: M. FISHER		08/23/2018				REGION NO. STATE
						10 WA
MAR PROJ ENGR: C. TORRES						JOB NUMBER
DGN ENGR MNGR: N. MCINTOSH						18W121
ASST SECRETARY: A. SCARTON						CONTRACT NO.
				REVISION	DATE	BY
						00****

DATE

DATE

4472

REGISTERED ARCHITECT

WALT W. NIEHOFF JR.

STATE OF WASHINGTON

08/23/18



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)

FERRY TERMINAL CONSTRUCTION

TERMINAL - INTERIOR ELEVATIONS

A07.09

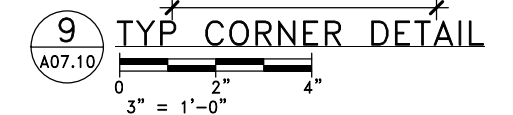
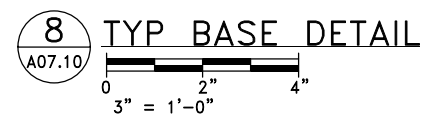
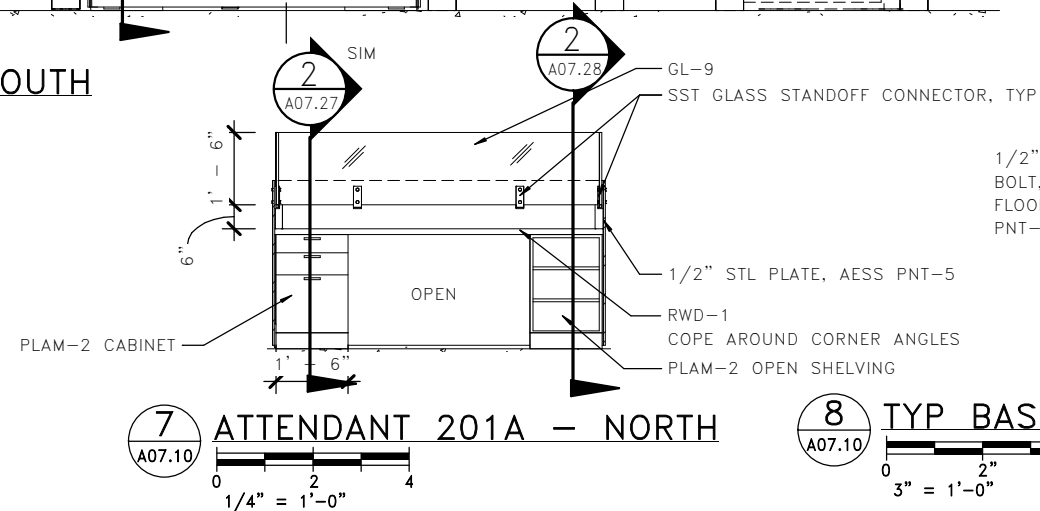
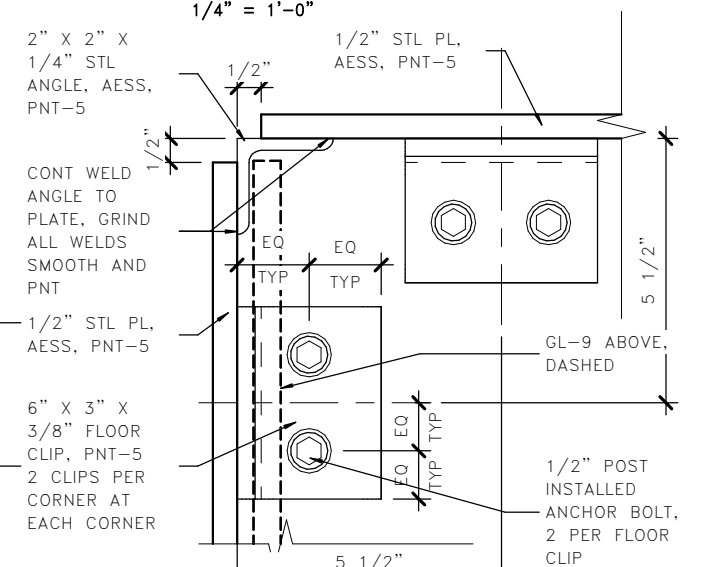
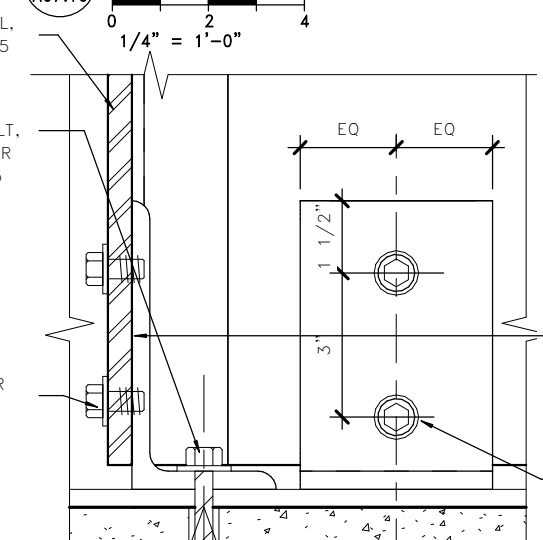
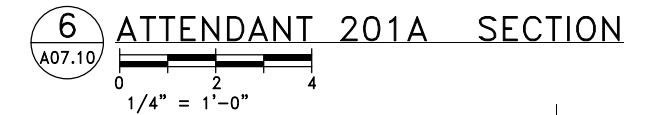
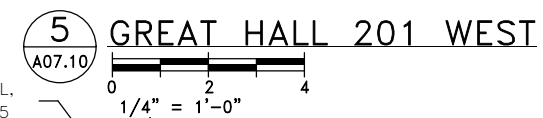
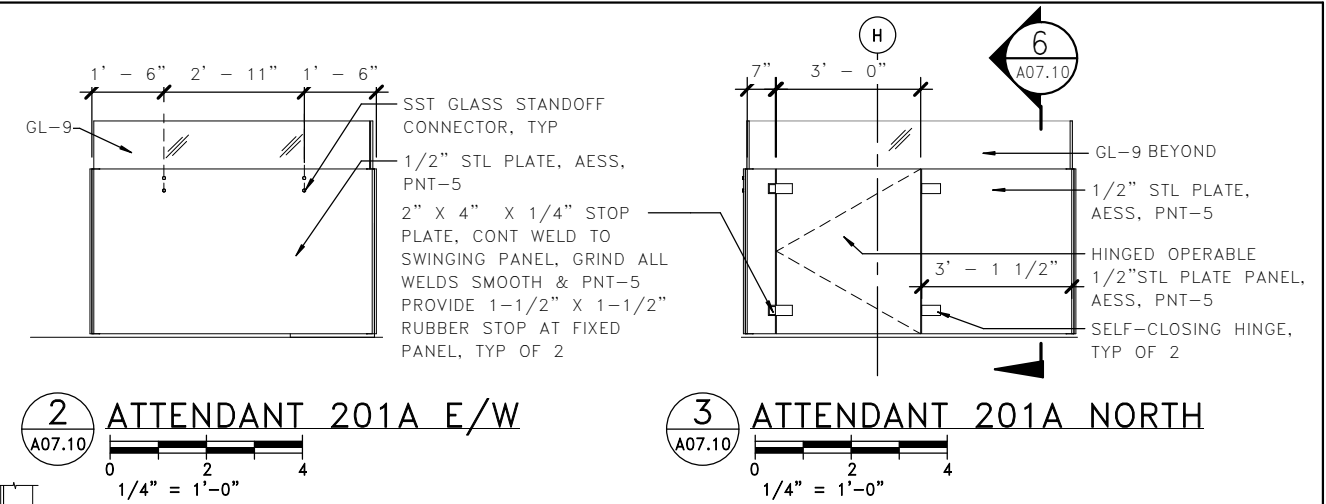
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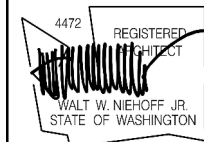
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1521

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ENTERED BY: G. BISHOP			08/23/2018				10 WA		
CHECKED BY: M. FISHER			08/23/2018				JOB NUMBER		
MAR PROJ ENGR: C. TORRES							18W121		
DGN ENGR MNGR: N. MCINTOSH							CONTRACT NO.		
ASST SECRETARY: A. SCARTON			REVISION		DATE		BY		
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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL – INTERIOR ELEVATIONS

A07.10
SHEET
1045
OF
1521
SHEETS



1 VIEW TO NORTH EAST
A07.11

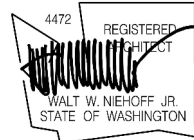
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MAR PROJ ENGR:	C. TORRES		
DGN ENGR MNGR:	N. MCINTOSH		
ASST SECRETARY:	A. SCARTON		
	REVISION	DATE	BY

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

DATE



08/23/18
DATE



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL – INTERIOR PERSPECTIVE

A07.11

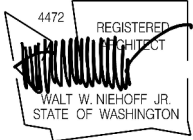
SHEET
1046
OF
1521
SHEETS



1 VIEW TO NORTH WEST
A07.12

LMN

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ENTERED BY: G. BISHOP	08/23/2018				JOB NUMBER	
CHECKED BY: M. FISHER	08/23/2018				18W121	
MAR PROJ ENGR: C. TORRES					CONTRACT NO.	
DGN ENGR MNGR: N. MCINTOSH					00****	
ASST SECRETARY: A. SCARTON						
	REVISION	DATE	BY			

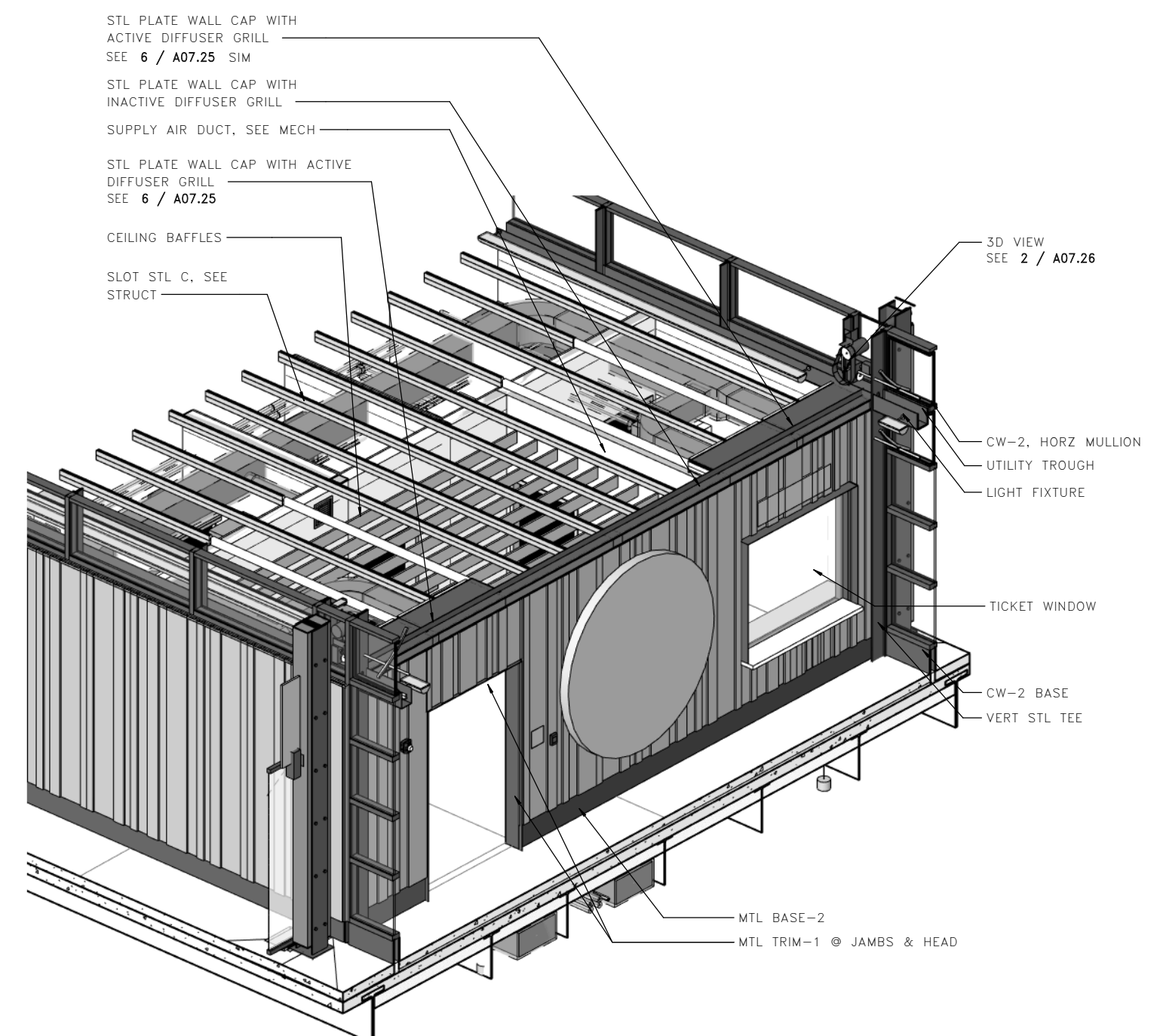
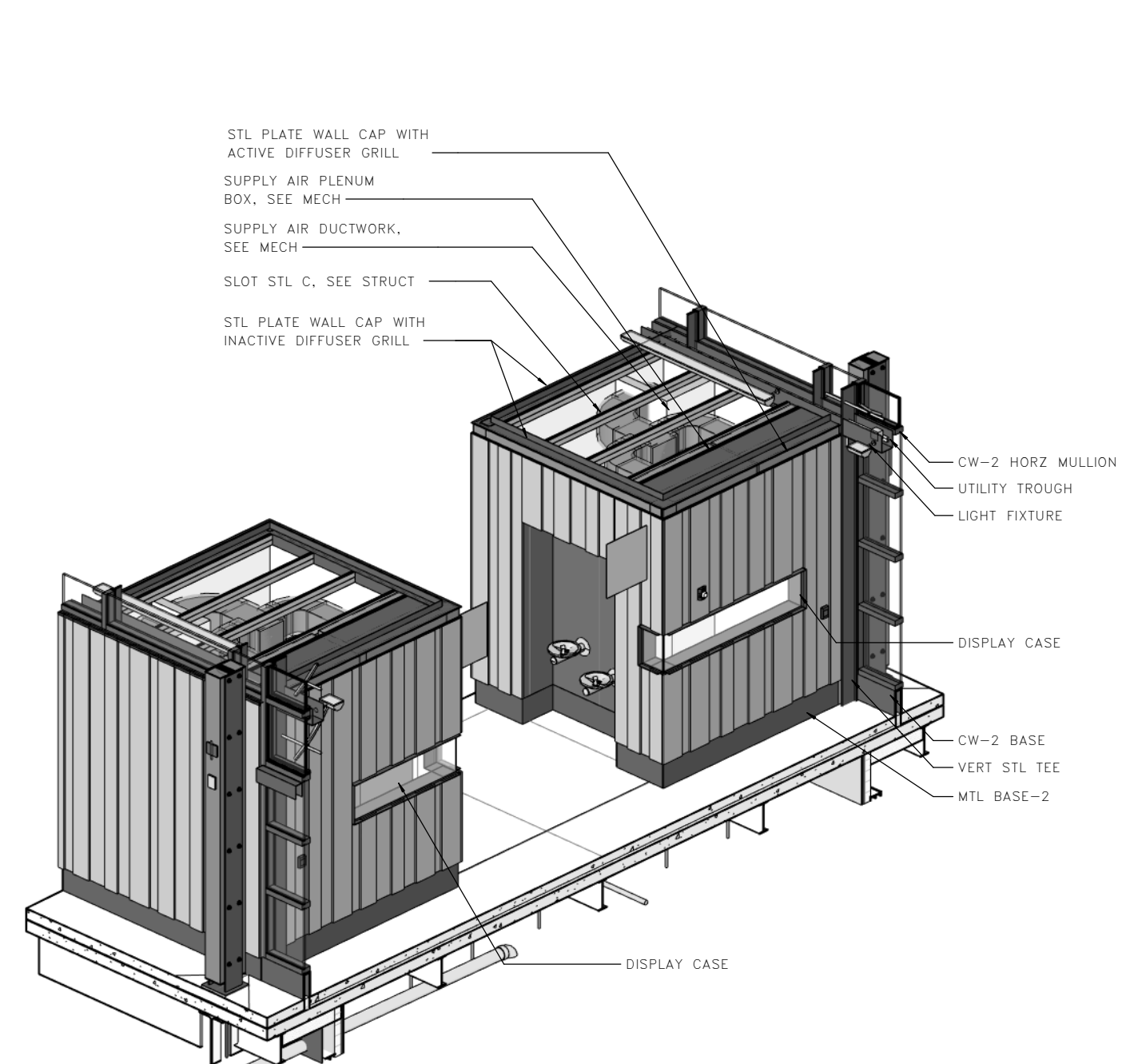


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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL – INTERIOR PERSPECTIVE

A07.12
SHEET
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OF
1521
SHEETS



1 3D - WEST END OF GREAT HALL
A07.20

2 3D - EAST END OF GREAT HALL
A07.20



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SUBMITTAL DATE:	08/23/2018	MFISHER		WA-2017-007-00	
DESIGNED BY:	H. FITZPATRICK	08/23/2018		REGION NO.	STATE
ENTERED BY:	G. BISHOP	08/23/2018		10	WA
CHECKED BY:	M. FISHER	08/23/2018		JOB NUMBER	
MAR PROJ ENGR:	C. TORRES			18W121	
DGN ENGR MNGR:	N. MCINTOSH			CONTRACT NO.	
ASST SECRETARY:	A. SCARTON			00****	
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REGISTERED ARCHITECT

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STATE OF WASHINGTON

08/23/18

DATE

Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)

FERRY TERMINAL CONSTRUCTION

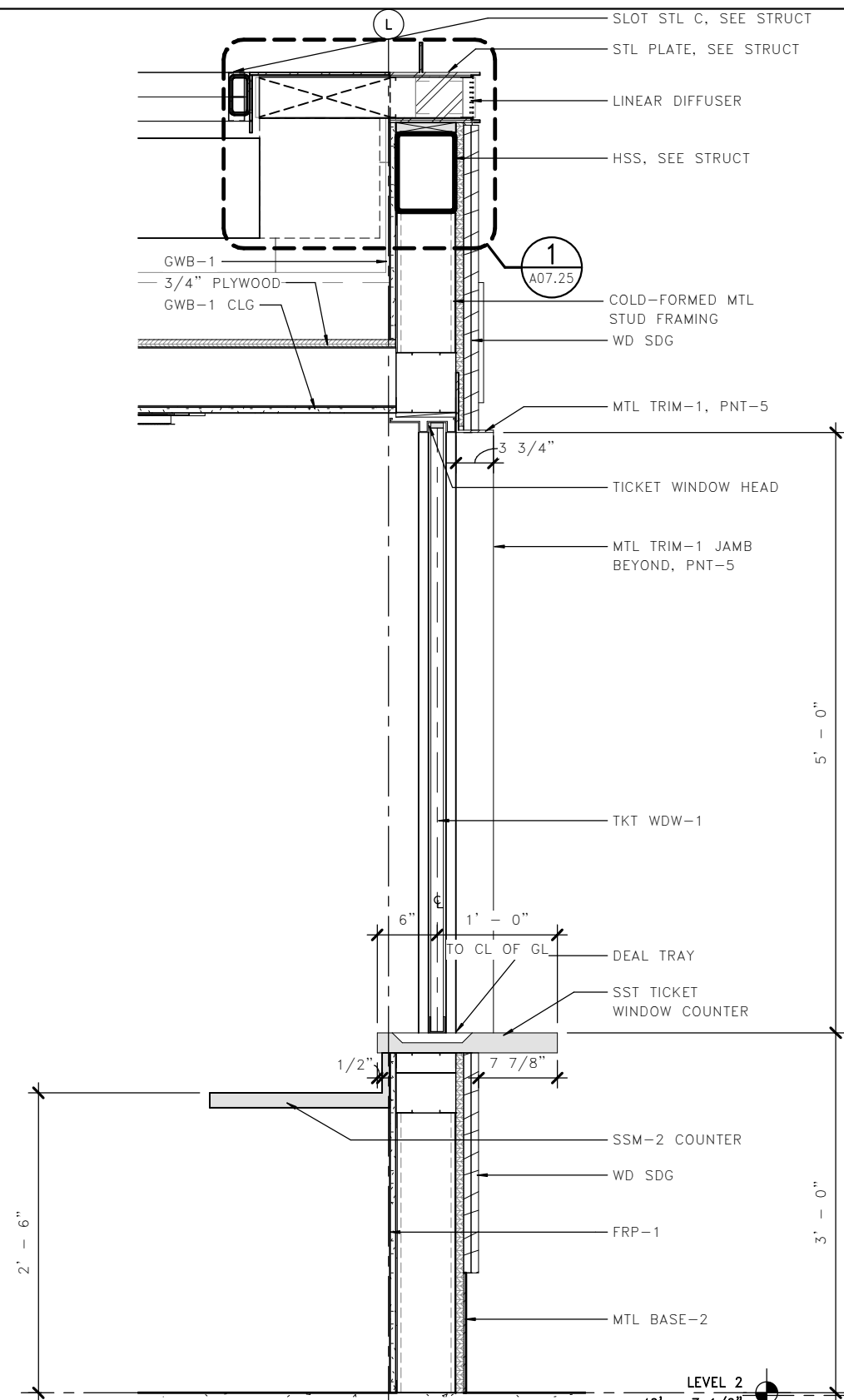
TERMINAL - INTERIOR DETAILS

A07.20

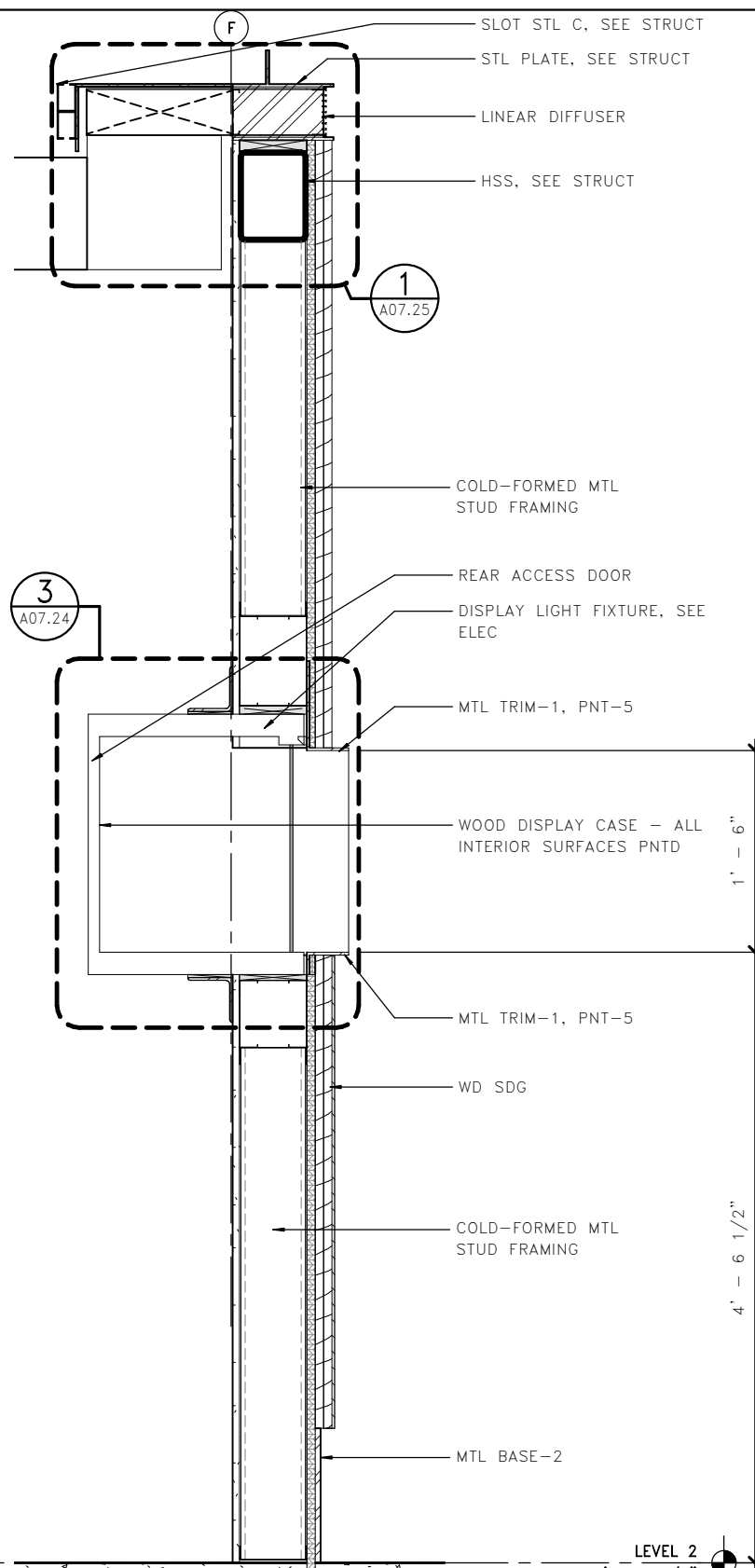
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OF 1521

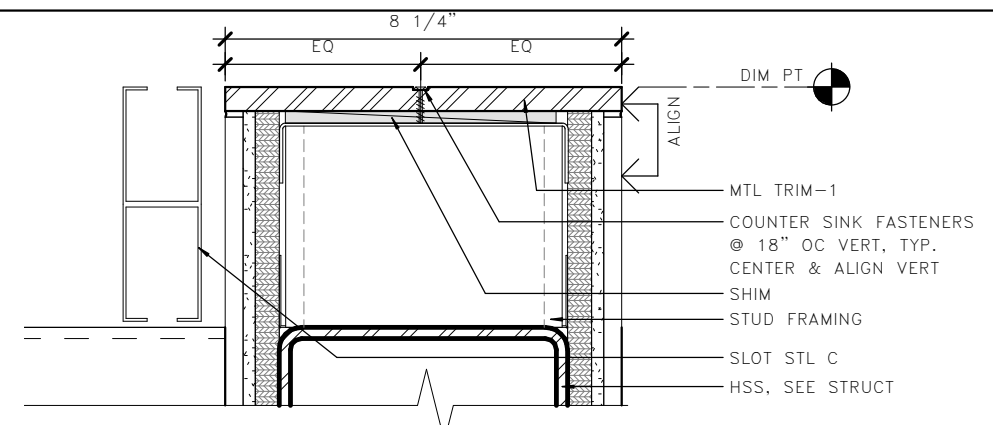
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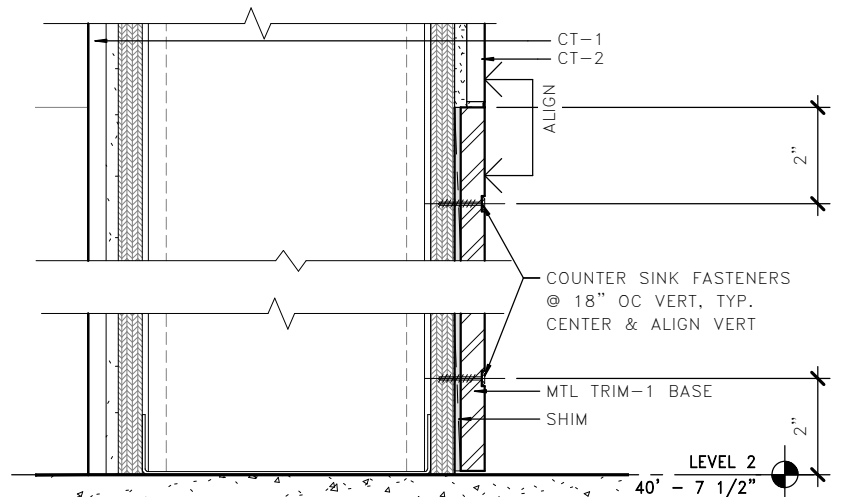
1 SECTION @ TICKET WINDOW
A07.21
3/4" = 1'-0"



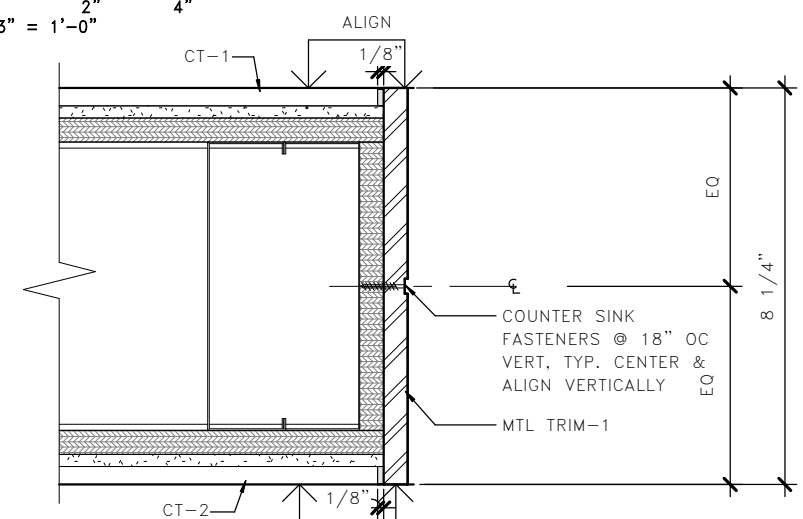
2 SECTION @ DISPLAY CASE
A07.21
3/4" = 1'-0"



3 INTERIOR DETAIL - TOP OF WALL
A07.21
3" = 1'-0"



4 INTERIOR DETAIL - BASE
A07.21
3" = 1'-0"



5 INTERIOR DETAIL - JAMB
A07.21
3" = 1'-0"

FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\LMN\mft-CENTRAL_90.rvt

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DGN ENGR MNGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY: MFISHER

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BY

FED.AID
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WA

JOB NUMBER

18W121

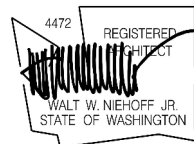
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DATE

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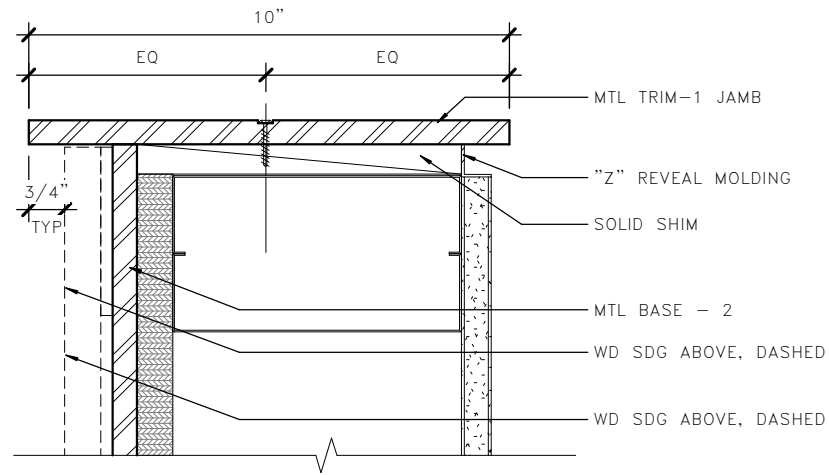


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - INTERIOR DETAILS

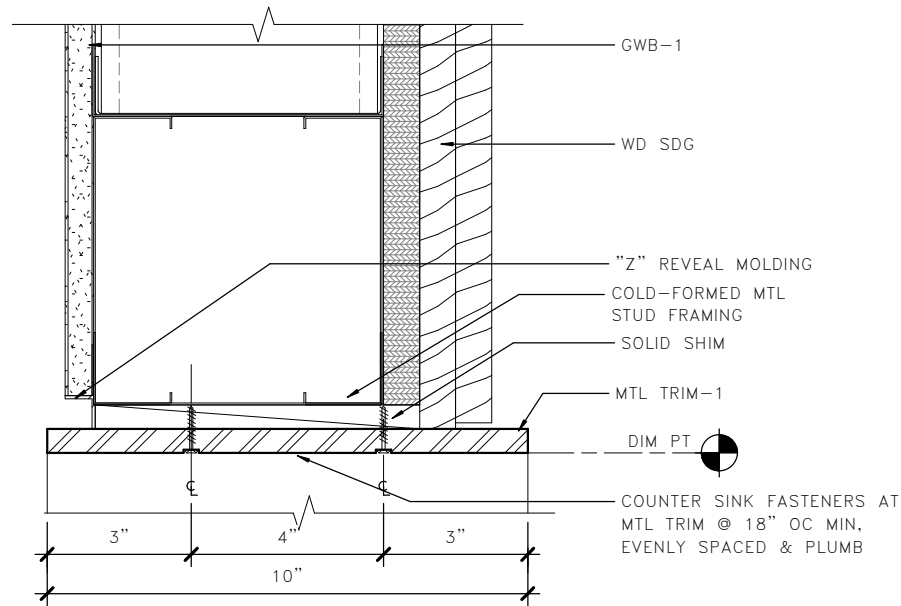
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SHEET
1049

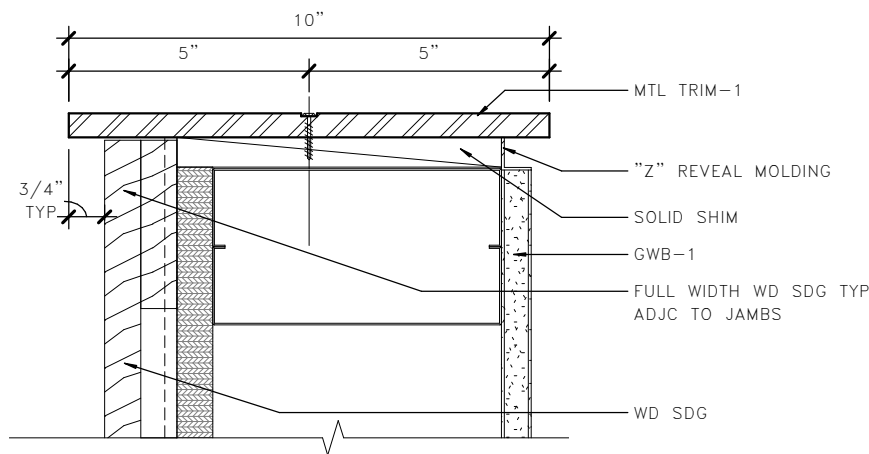
OF
1521
SHEETS



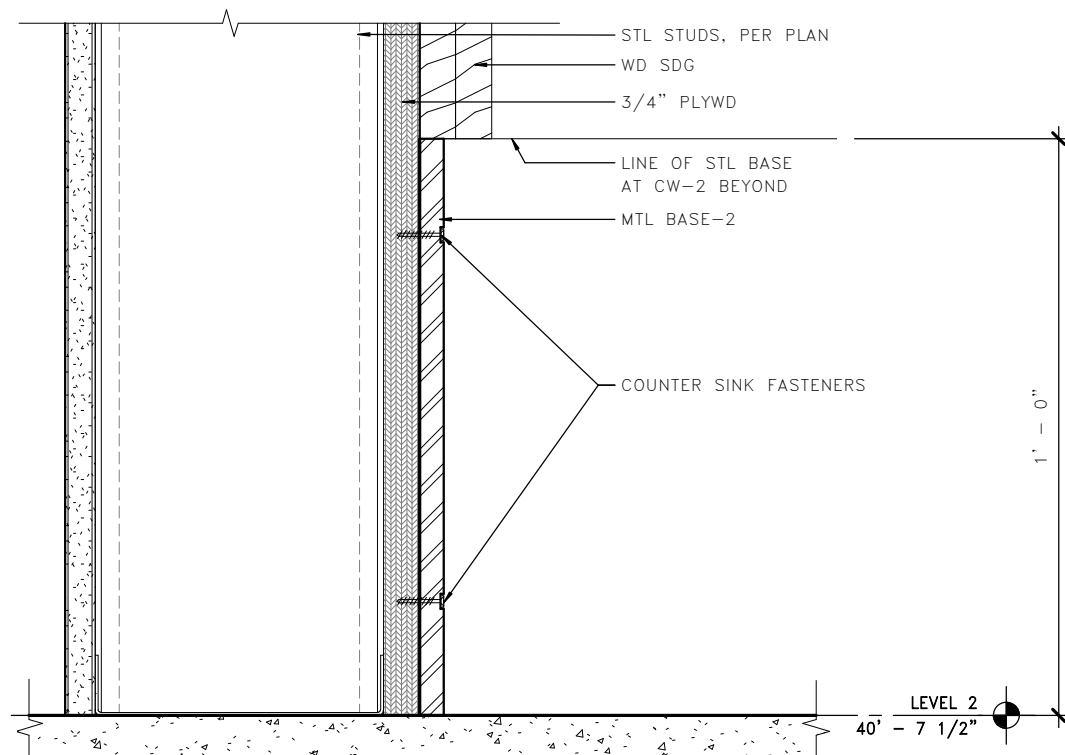
1 INTERIOR WALL JAMB DETAIL @ BASE
A07.22



2 INTERIOR WALL OPENING HEAD
A07.22



4 INTERIOR JAMB DETAIL
A07.22

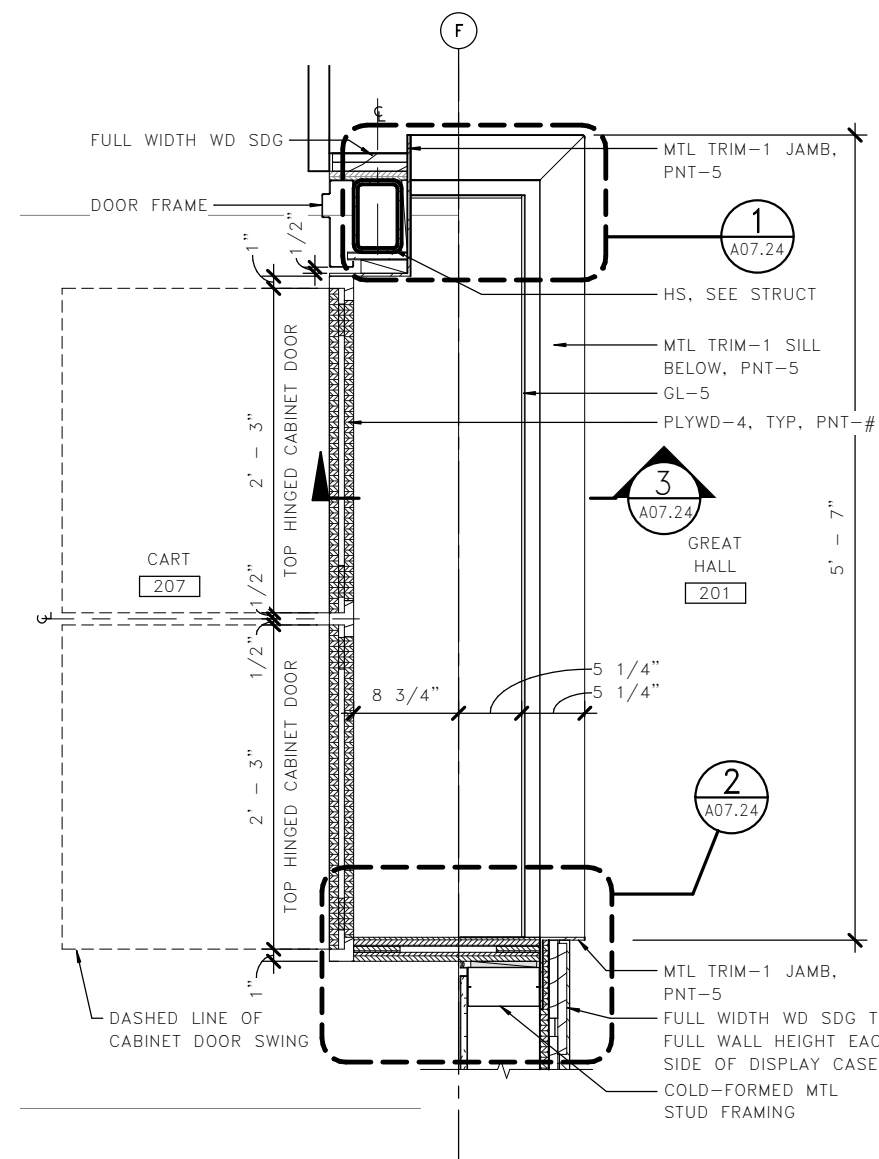


5 INTERIOR WALL BASE DETAIL
A07.22

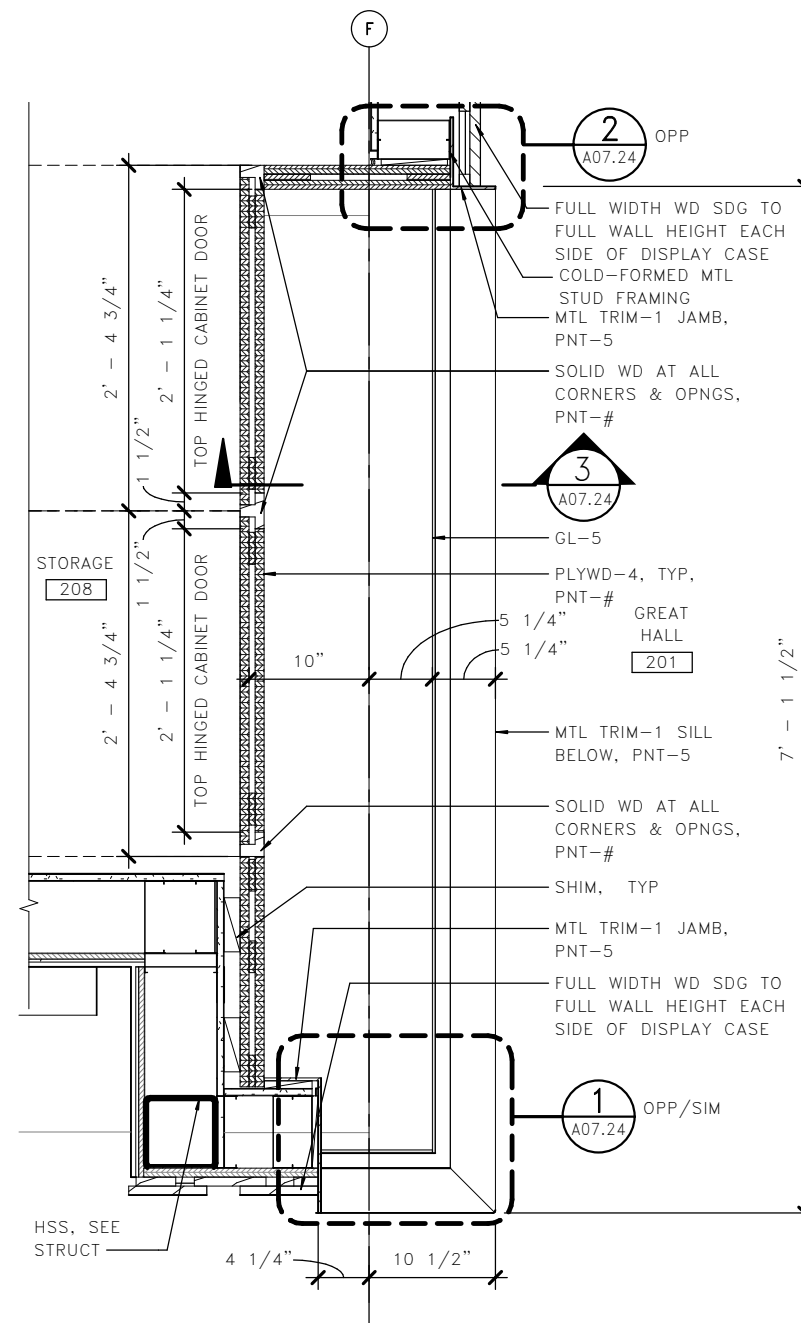
LMN



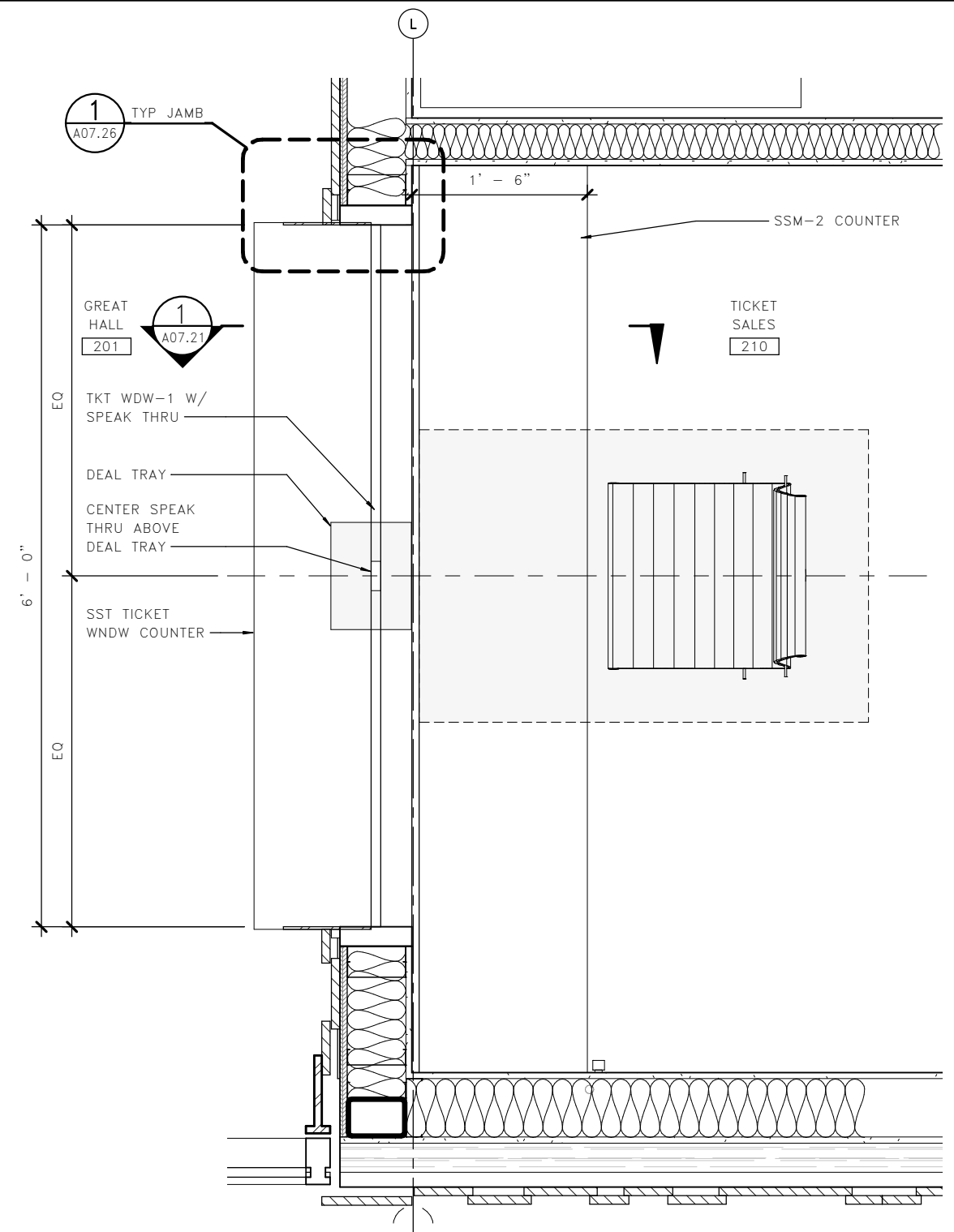
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1 DIPLAY CASE PLAN SOUTH
A07.23



2 DISPLAY CASE PLAN NORTH
A07.23



3 TB - TICKET WINDOW PLAN
A07.23

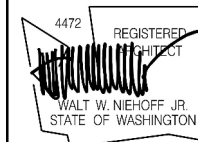
LMN

0" 6" 12" 18"

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ENTERED BY:	G. BISHOP	08/23/2018	
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MAR PROJ ENGR:	C. TORRES		
DGN ENGR MNGR:	N. MCINTOSH		
ASST SECRETARY:	A. SCARTON		
REVISION	DATE	BY	

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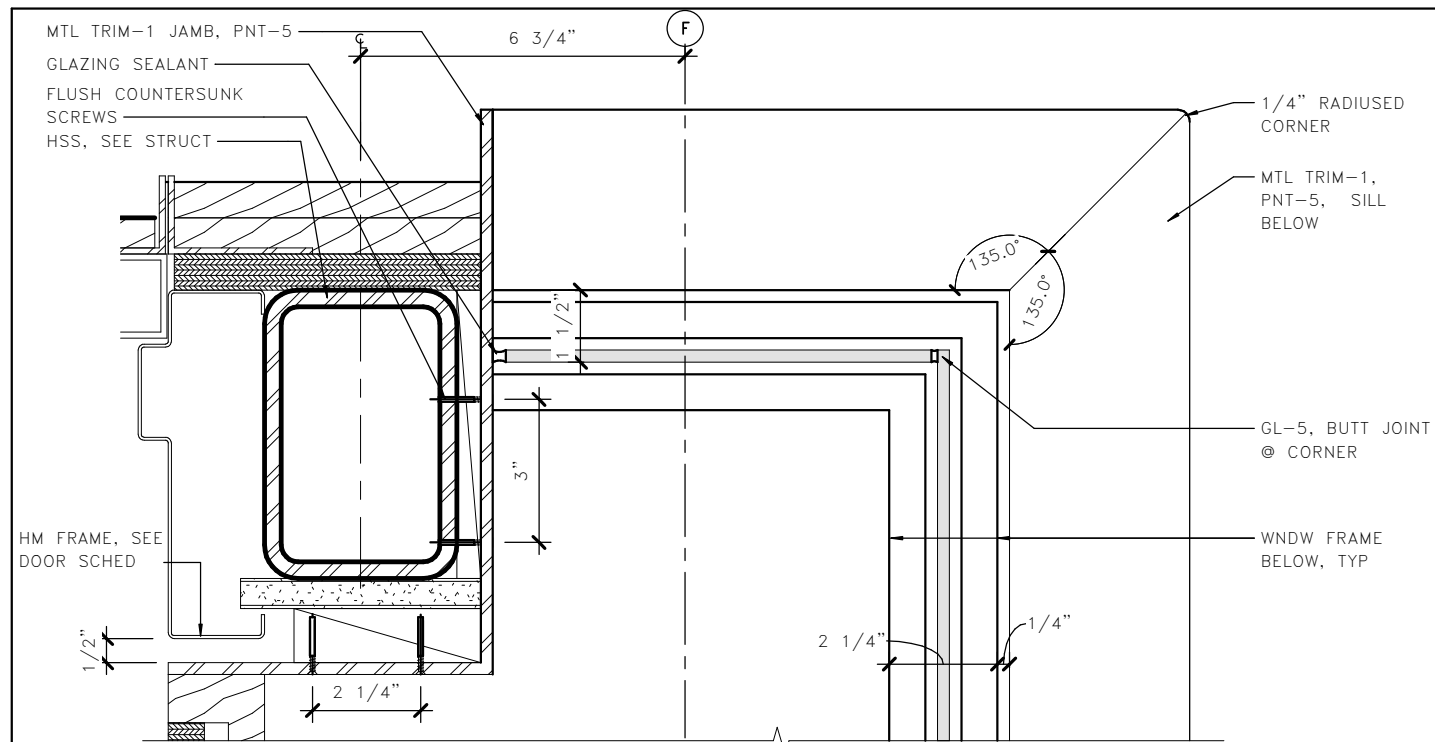


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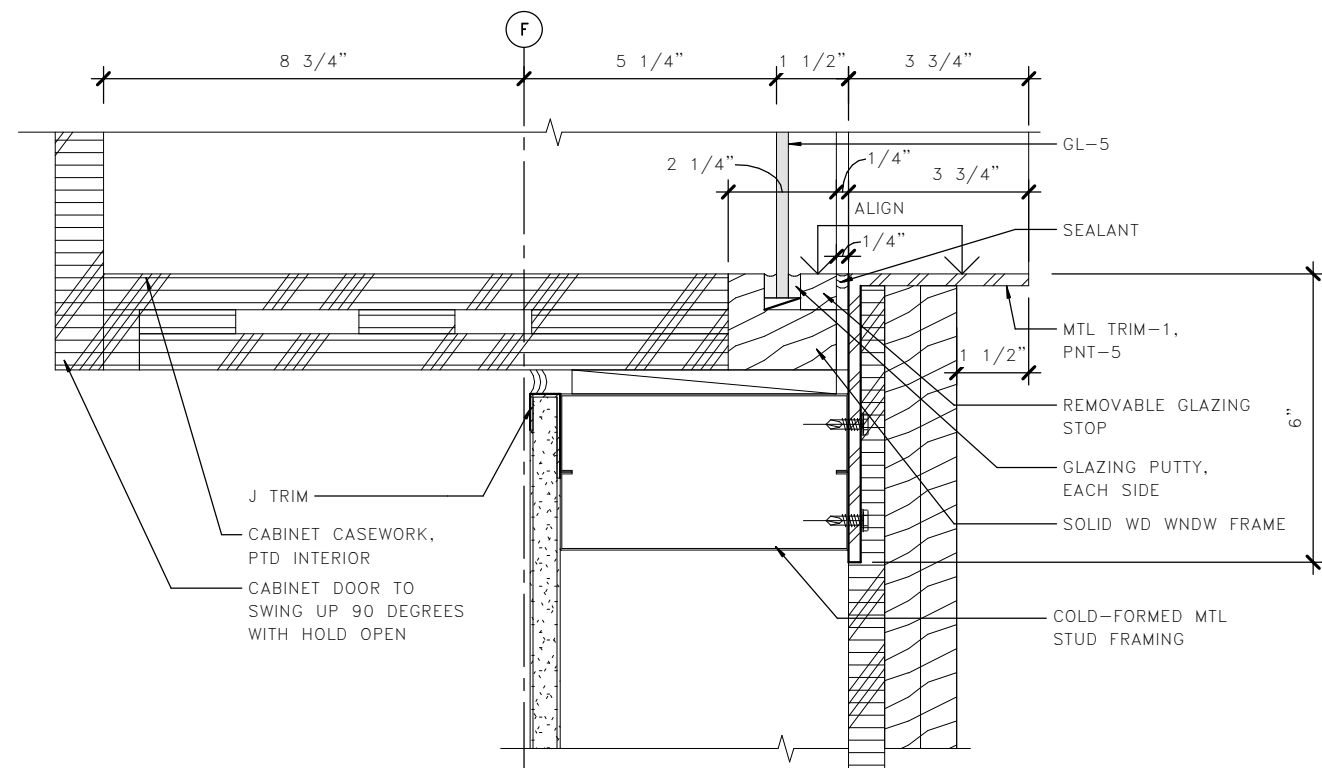


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - INTERIOR DETAILS

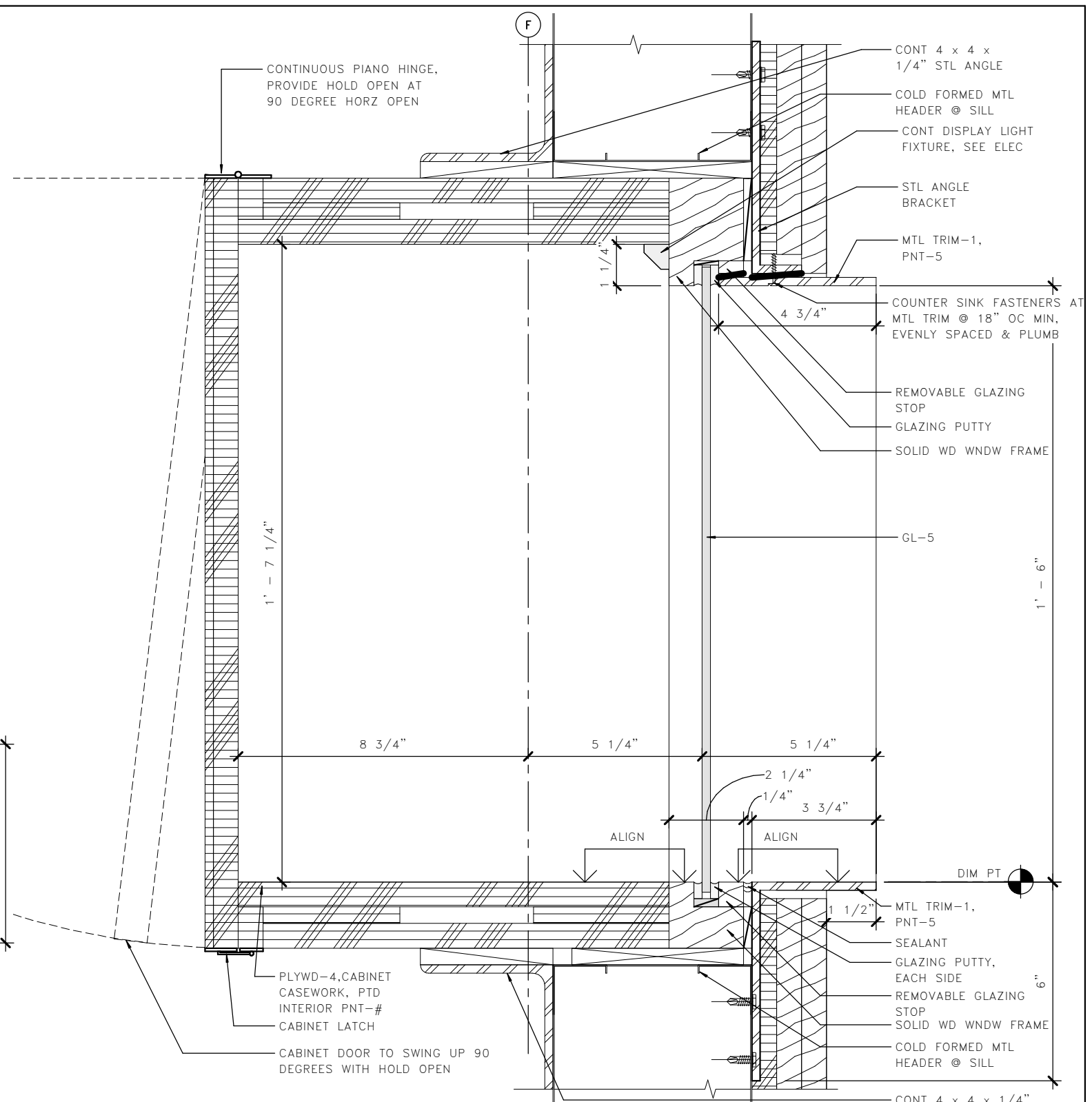
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SHEET
1051
OF
1521
SHEETS



1 DISPLAY CASE PLAN DETAIL
A07.24

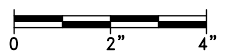


2 DISPLAY CASE PLAN DETAIL @ JAMB
A07.24



3 TB-DISPLAY CASE -SECTION DETAIL
A07.24

LMN

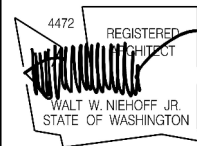


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MAR PROJ ENGR:	C. TORRES		
DGN ENGR MNGR:	N. MCINTOSH		
ASST SECRETARY:	A. SCARTON		
REVISION	DATE	BY	

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

DATE

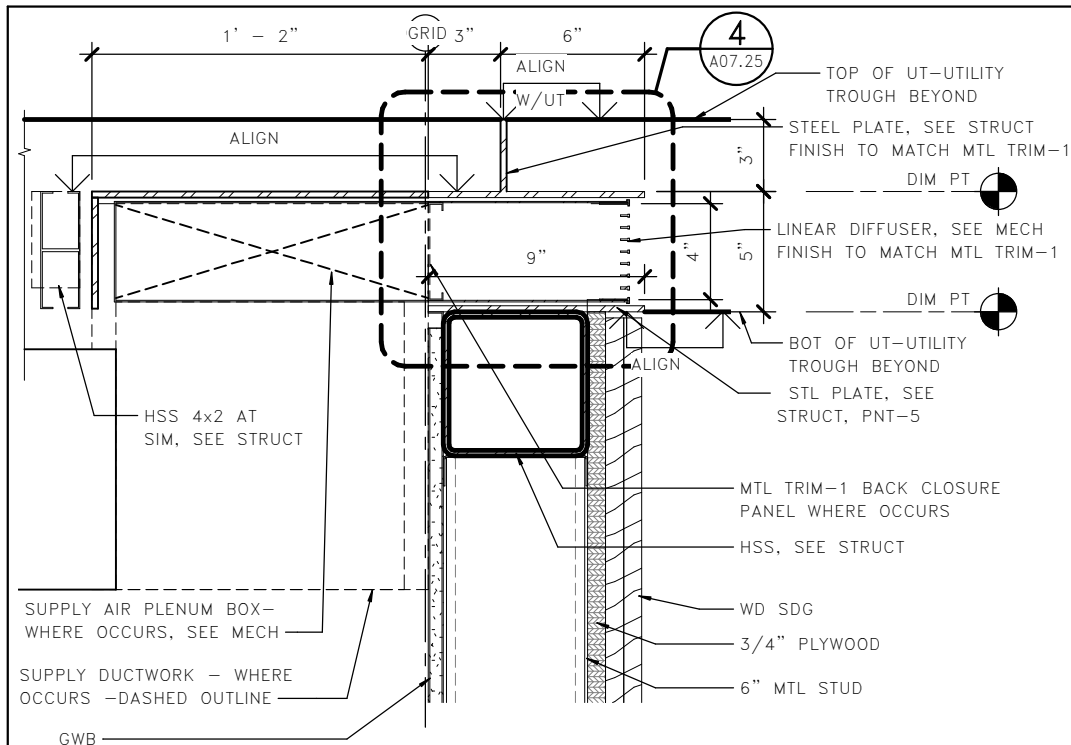


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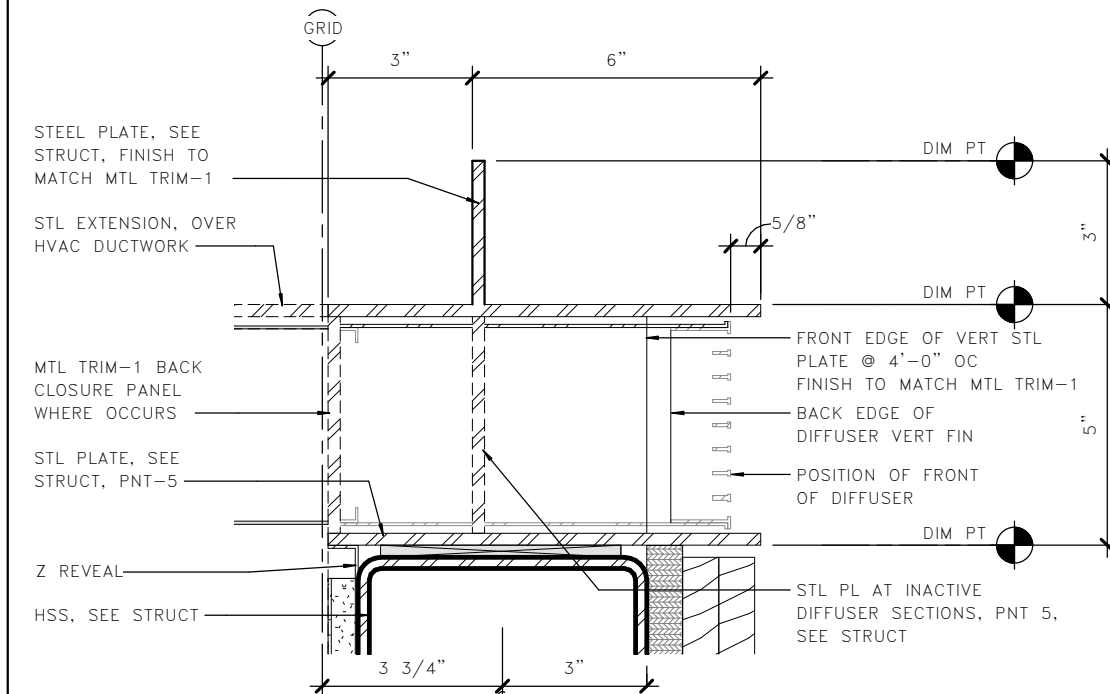


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - INTERIOR DETAILS

A07.24
SHEET
1052
OF
1521
SHEETS

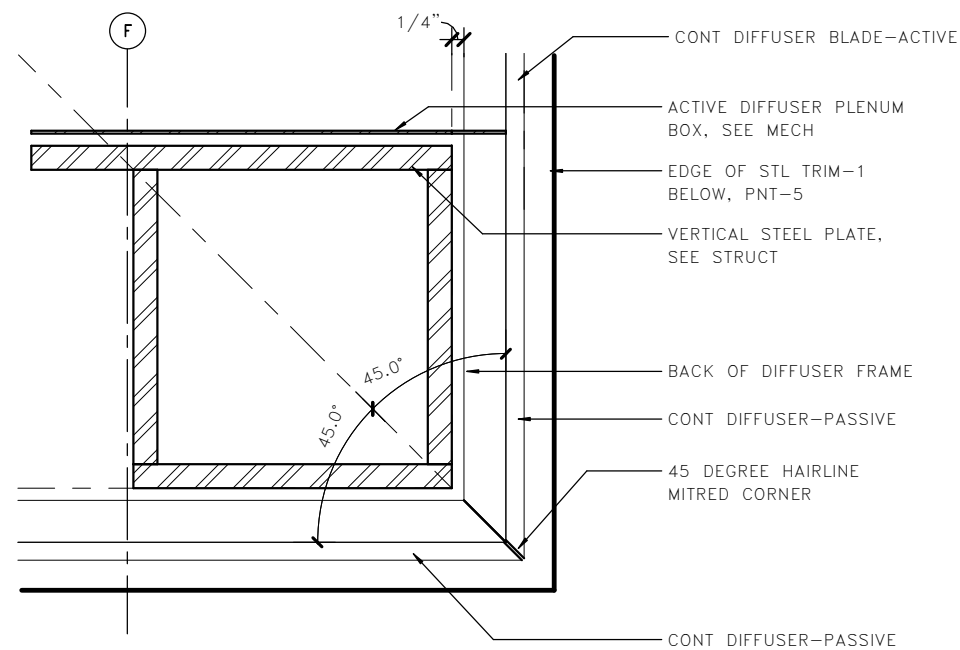


1 DIFFUSER SECTION DETAIL
A07.25
0 4" 8"
1 1/2" = 1'-0"

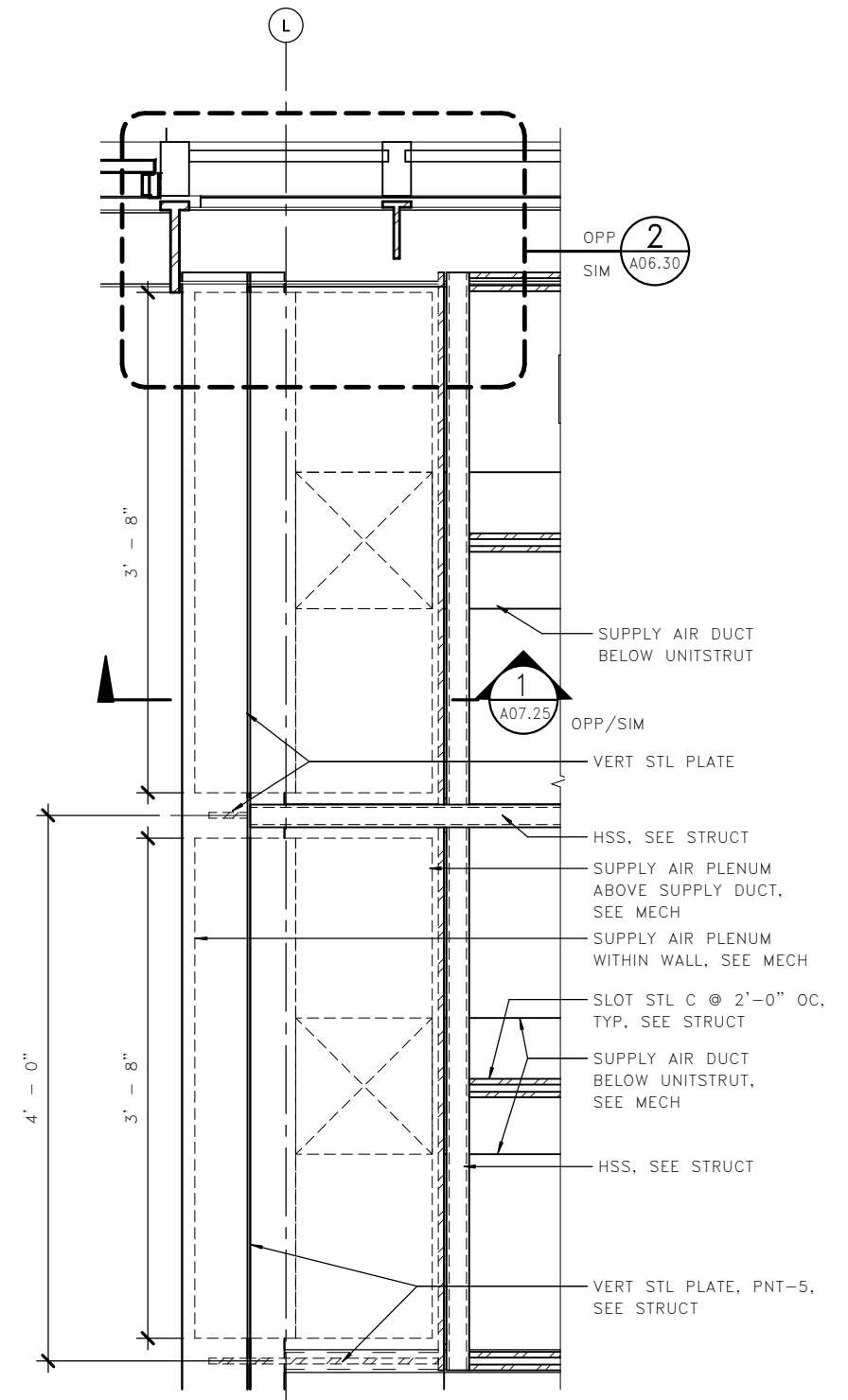


4 DIFFUSER PROFILE
A07.25
0 2" 4"
3" = 1'-0"

NOTE
1. ALL STEEL SHALL RECIEVE PNT-5 WHERE EXPOSED TO VIEW.
2. MECH DIFFUSERS AND CLOSURE PIECES SHALL BE FINISHED TO MATCH PNT-5.



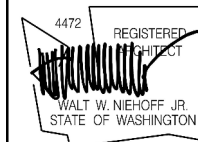
5 DIFFUSER CORNER PLAN DETAIL
A07.25
0 2" 4"
3" = 1'-0"



6 WALL CAP EXTENSION - PLAN
A07.25
0 8" 16"
3/4" = 1'-0"

LMN

FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\LMN\mft-CENTRAL_90%.rvt				
PRINTED: 9/21/2018 4:51:19 PM	LAST PRINTED BY: MFISHER			FED.AID PROJ.NO.
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ENTERED BY: G. BISHOP	08/23/2018			JOB NUMBER 18W121
CHECKED BY: M. FISHER	08/23/2018			CONTRACT NO. 00****
MAR PROJ ENGR: C. TORRES				
DGN ENGR MNGR: N. MCINTOSH				
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY

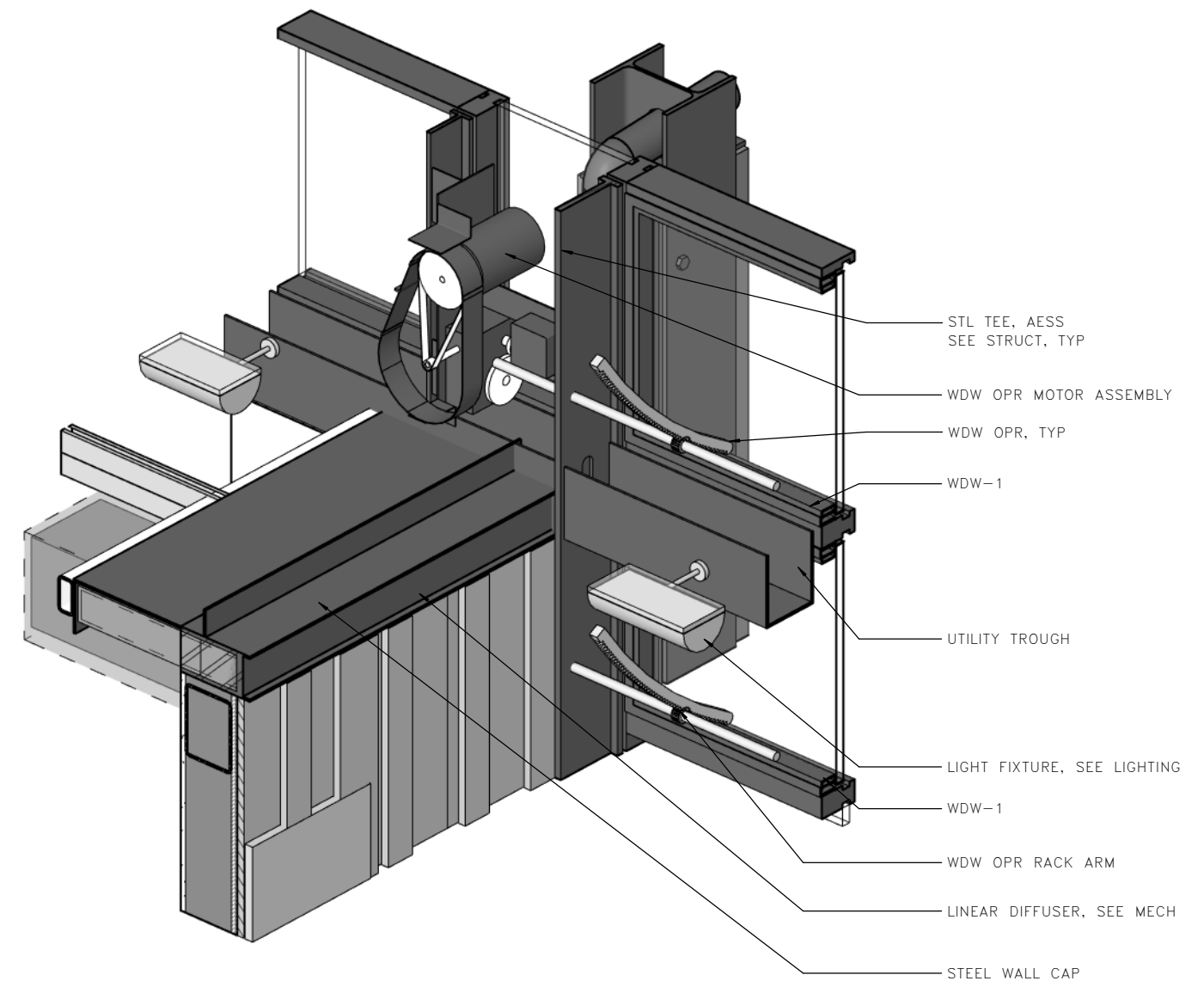
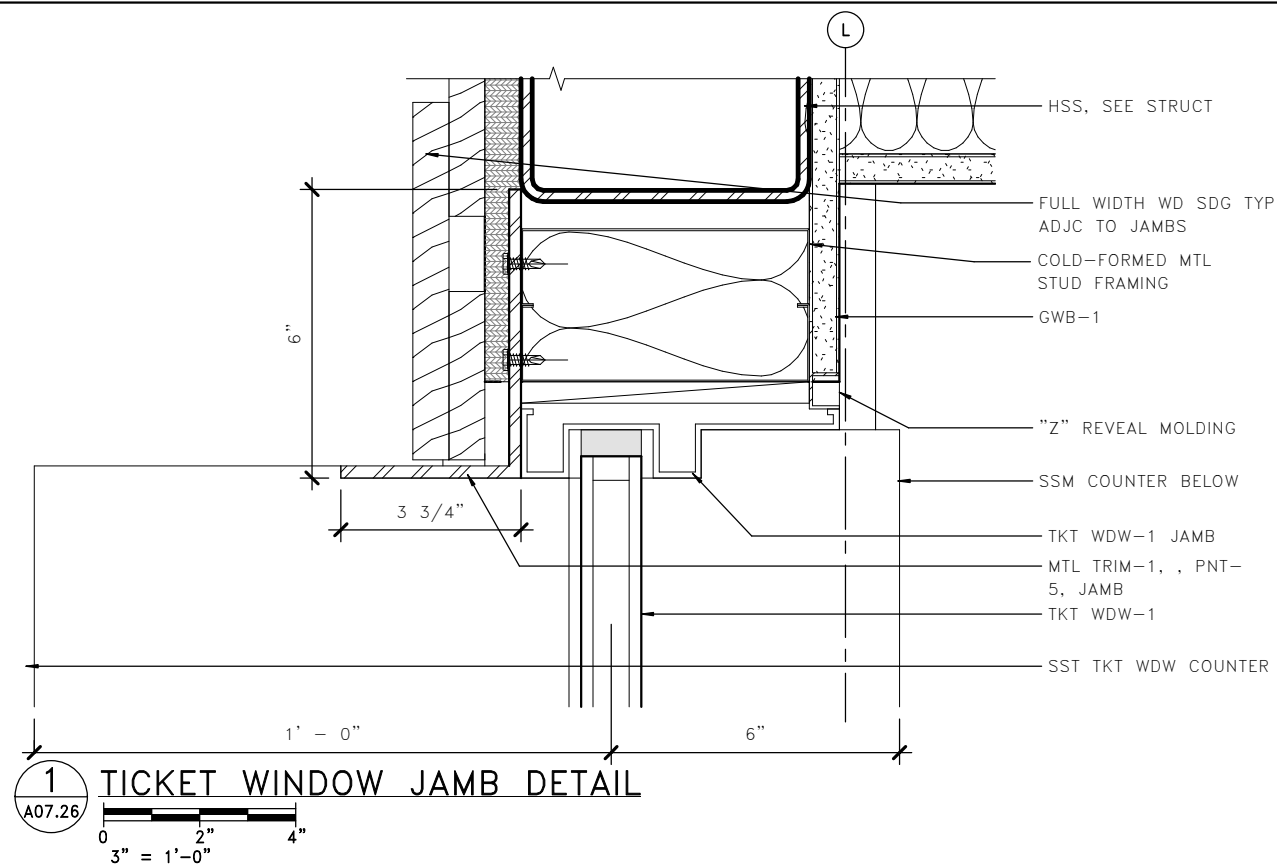


08/23/18



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - INTERIOR DETAILS

A07.25
SHEET
1053
OF
1521
SHEETS



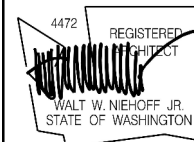
2 DIAGRAM - EAST END OF GREAT HALL

A07.26

LMN

FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\LMN\mft-CENTRAL_90%.rvt					
PRINTED: 9/21/2018 4:51:21 PM	LAST PRINTED BY: MFISHER				FED.AID PROJ.NO.
SUBMITTAL DATE: 08/23/2018					WA-2017-007-00
DESIGNED BY: H. FITZPATRICK	08/23/2018				REGION NO. STATE
ENTERED BY: G. BISHOP	08/23/2018				10 WA
CHECKED BY: M. FISHER	08/23/2018				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DGN ENGR MNGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00****
	REVISION	DATE	BY		

DATE

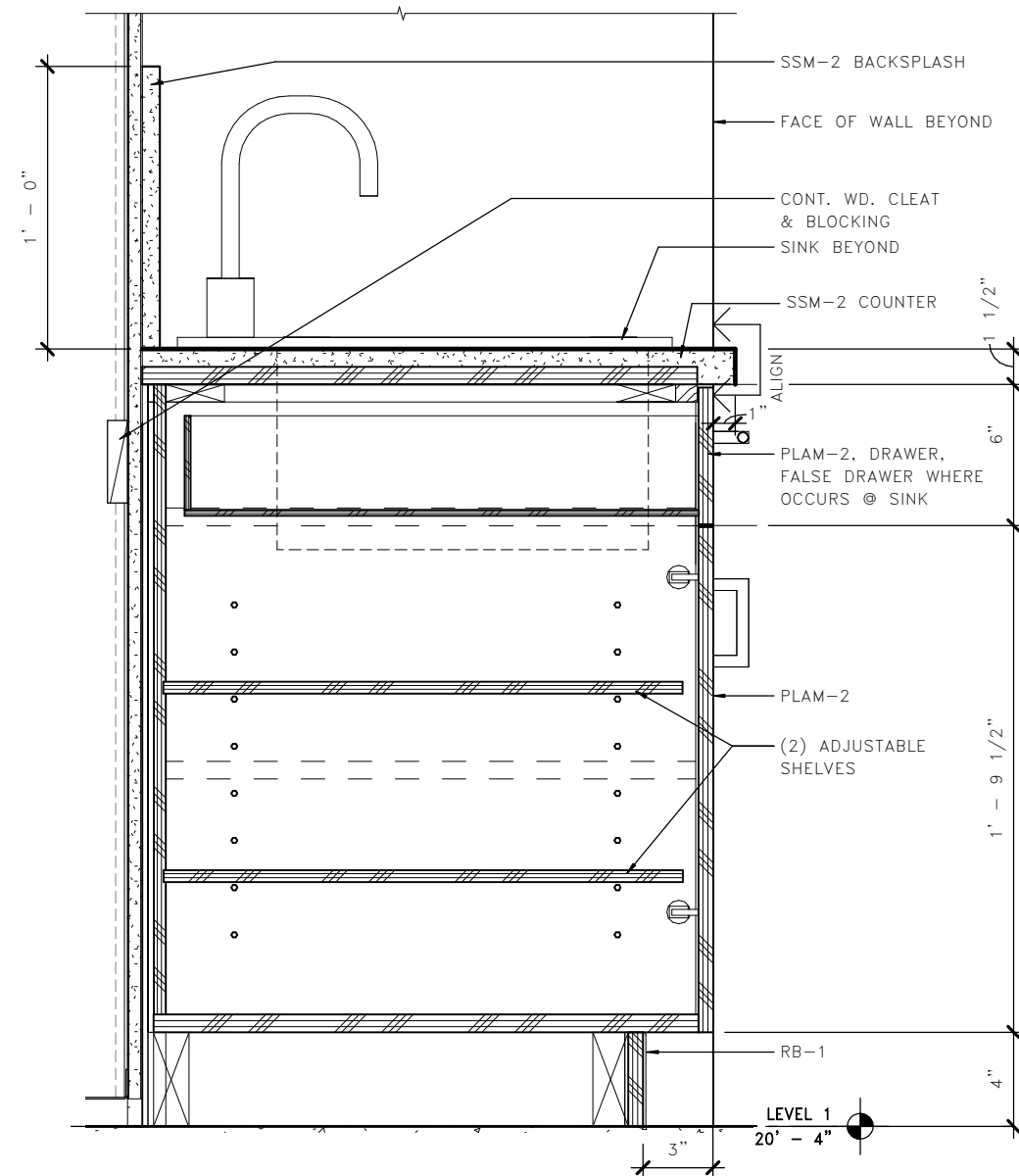


08/23/18
DATE

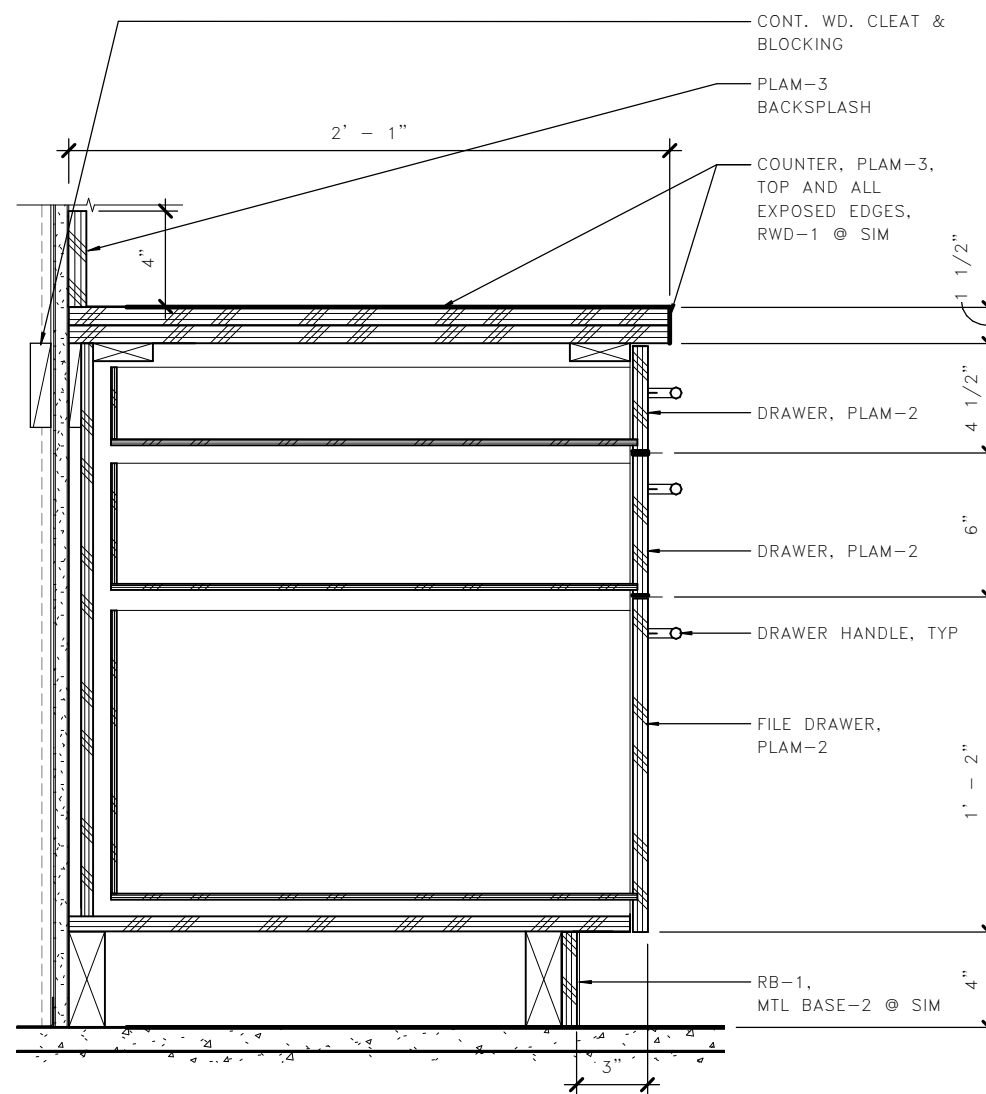


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - INTERIOR DETAILS

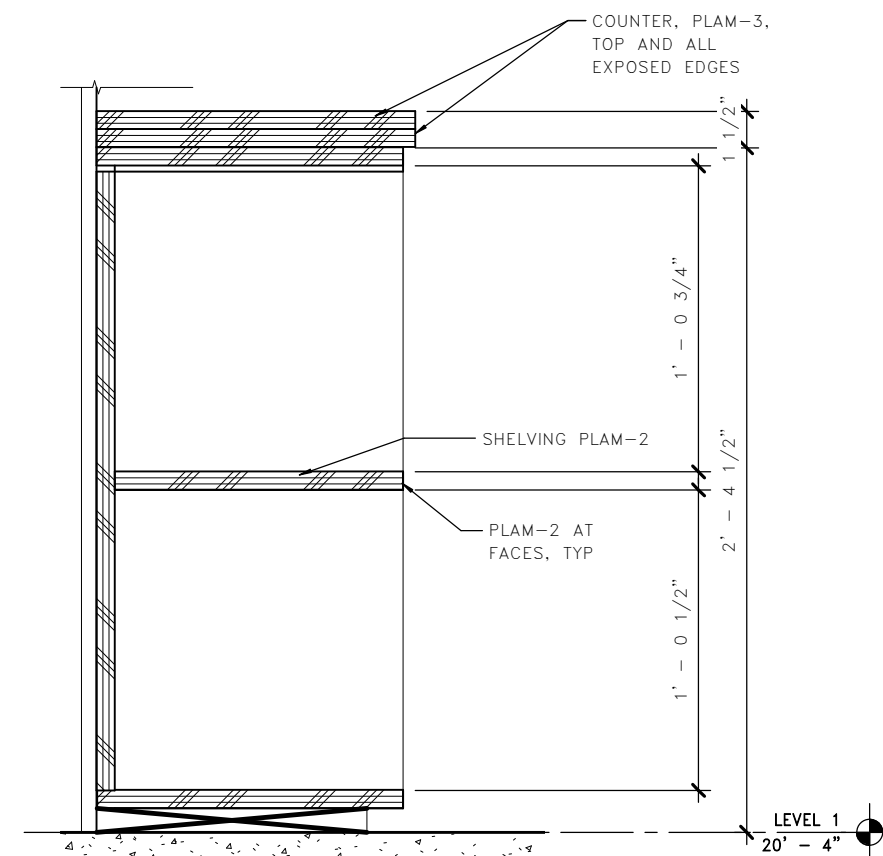
A07.26
SHEET
1054
OF
1521
SHEETS



1 CABINET SECTION
A07.27
0 4" 8"
1 1/2" = 1'-0"



2 CABINET SECTION
A07.27
0 4" 8"
1 1/2" = 1'-0"



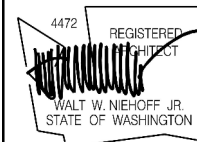
3 CABINET SECTION
A07.27
0 4" 8"
1 1/2" = 1'-0"

LMN

FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\LMN\mft-CENTRAL_90%.rvt

PRINTED:	9/21/2018 4:51:23 PM	LAST PRINTED BY:	MFISHER
SUBMITTAL DATE:	08/23/2018		
DESIGNED BY:	H. FITZPATRICK	08/23/2018	
ENTERED BY:	G. BISHOP	08/23/2018	
CHECKED BY:	M. FISHER	08/23/2018	
MAR PROJ ENGR:	C. TORRES		
DGN ENGR MNGR:	N. MCINTOSH		
ASST SECRETARY:	A. SCARTON	REVISION	DATE BY

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

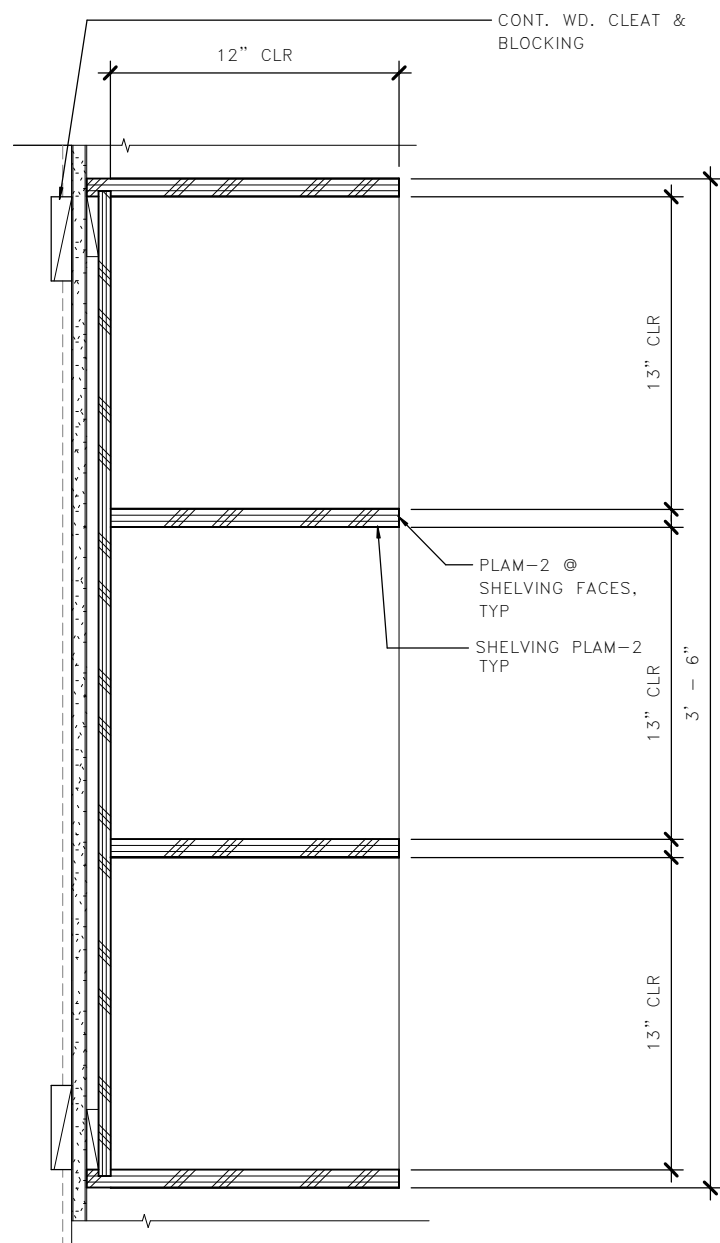


08/23/18
DATE

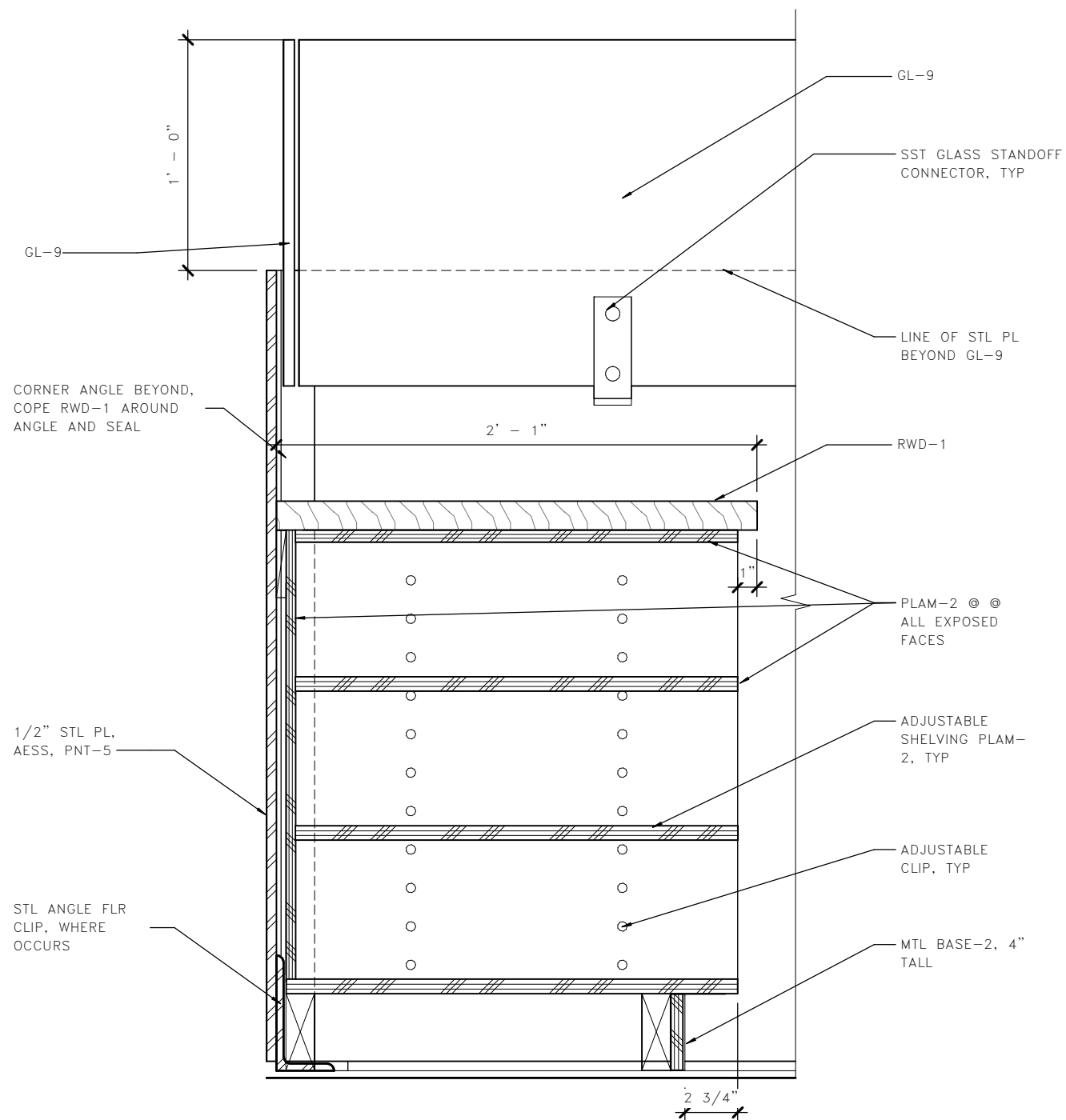


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - INTERIOR DETAILS

A07.27
SHEET
1055
OF
1521
SHEETS



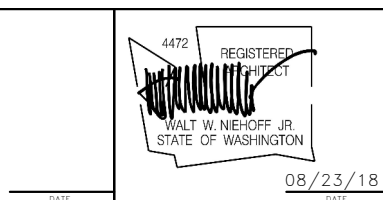
1 UPPER CASEWORK SECTION
 A07.28
 0 4" 8"
 1 1/2" = 1'-0"



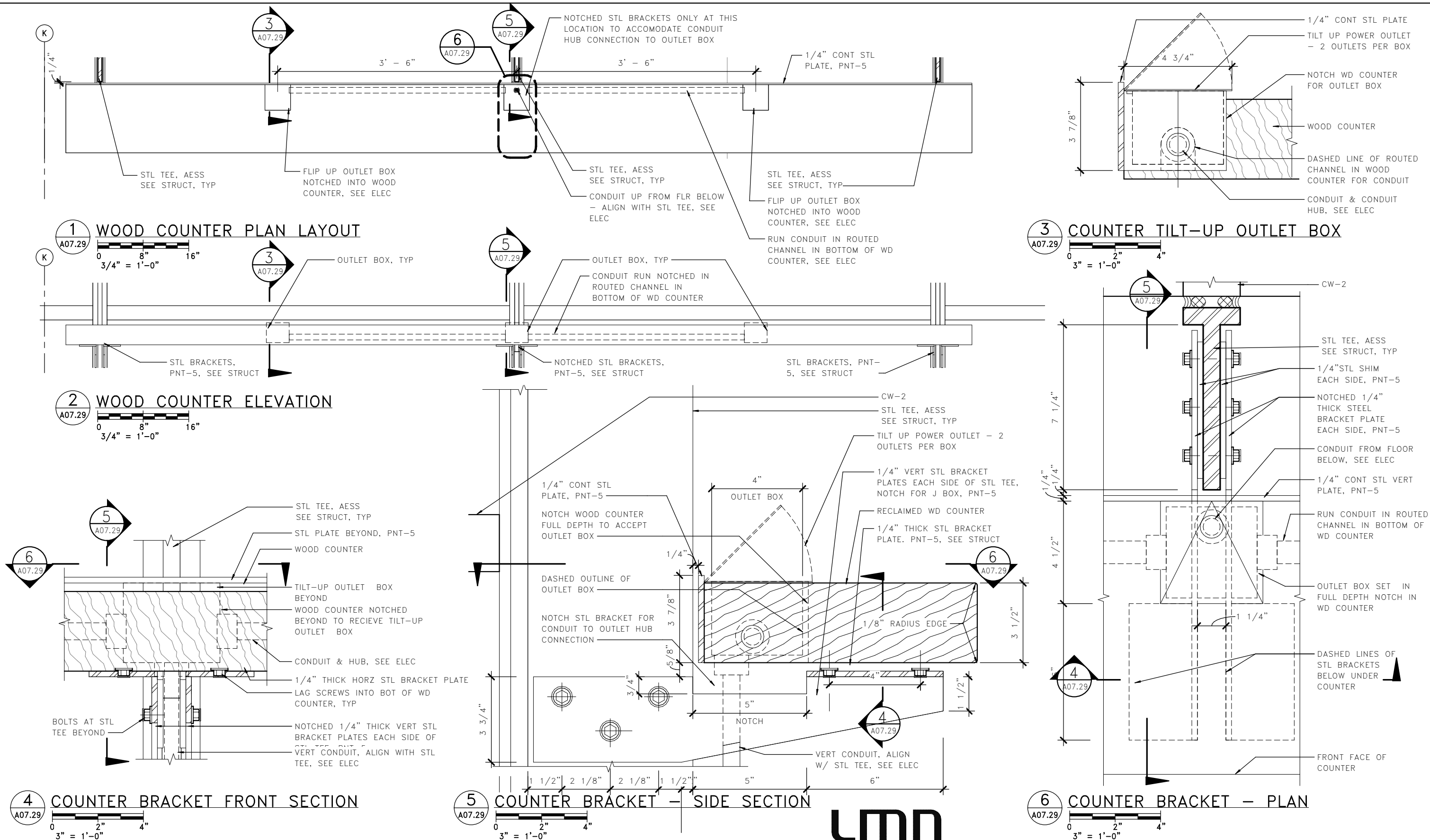
2 OPEN CASEWORK SECTION
 A07.28

LMN

FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\LMN\mft-CENTRAL_90%.rvt					
PRINTED: 9/21/2018 4:51:23 PM	LAST PRINTED BY:				FED.AID PROJ.NO.
SUBMITTAL DATE: 08/23/2018	MFISHER				WA-2017-007-00
DESIGNED BY: H. FITZPATRICK	08/23/2018				REGION NO. STATE
ENTERED BY: G. BISHOP	08/23/2018				10 WA
CHECKED BY: M. FISHER	08/23/2018				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DGN ENGR MNGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00****
	REVISION	DATE	BY		

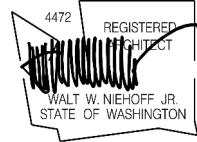


SR 525		A07.28
MUKILTEO FERRY TERMINAL (PHASE 2)		
FERRY TERMINAL CONSTRUCTION		SHEET 1056
TERMINAL – INTERIOR DETAILS		OF 1521 SHEETS



FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\LMN\mft-CENTRAL_90%.rvt			
PRINTED: 9/21/2018 4:51:27 PM	LAST PRINTED BY: MFISHER		
SUBMITTAL DATE: 08/23/2018			
DESIGNED BY: H. FITZPATRICK	08/23/2018		
ENTERED BY: G. BISHOP	08/23/2018		
CHECKED BY: M. FISHER	08/23/2018		
MAR PROJ ENGR: C. TORRES			
DGN ENGR MNGR: N. MCINTOSH			
ASST SECRETARY: A. SCARTON		REVISION	DATE BY

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

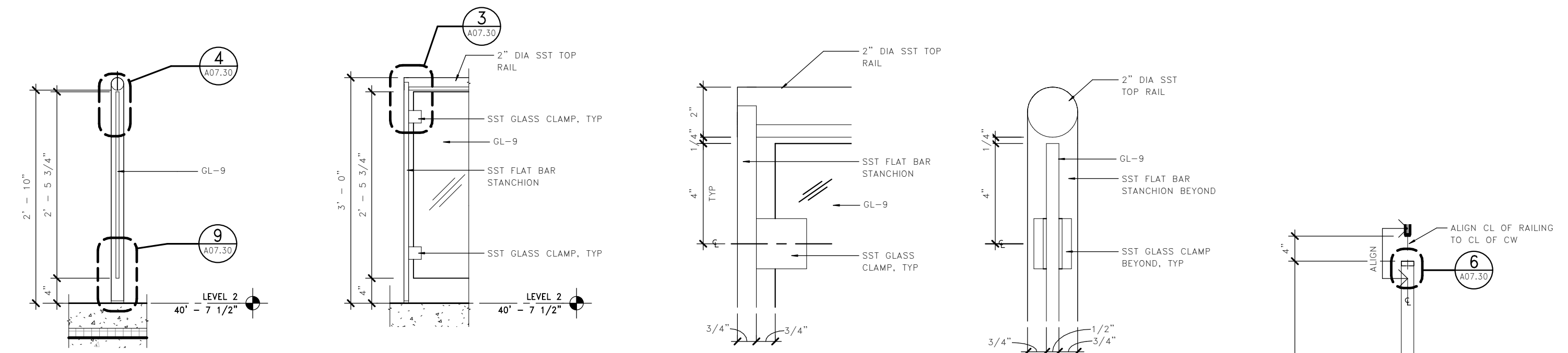


08/23/18



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - INTERIOR DETAILS

A07.29
SHEET
1057
OF
1521
SHEETS

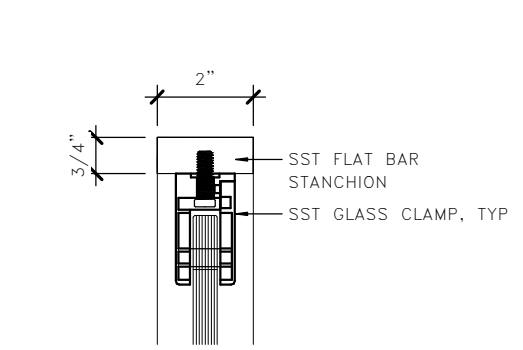


1 ATTENDANT DESK RAILING
A07.30
0 8" 16"
3/4" = 1'-0"

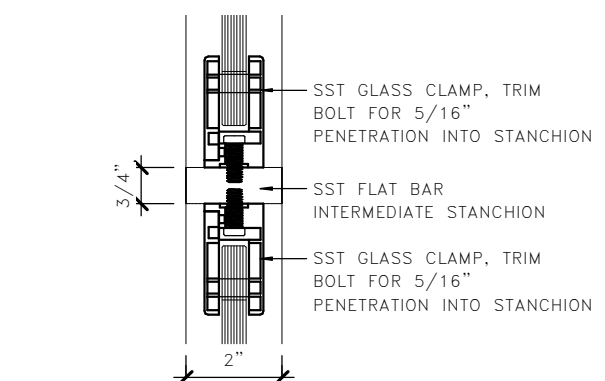
2 RAILING 5 DETAIL ELEVATION
A07.30
0 8" 16"
3/4" = 1'-0"

3 RAILING 5 DETAIL
A07.30
0 8" 16"
3" = 1'-0"

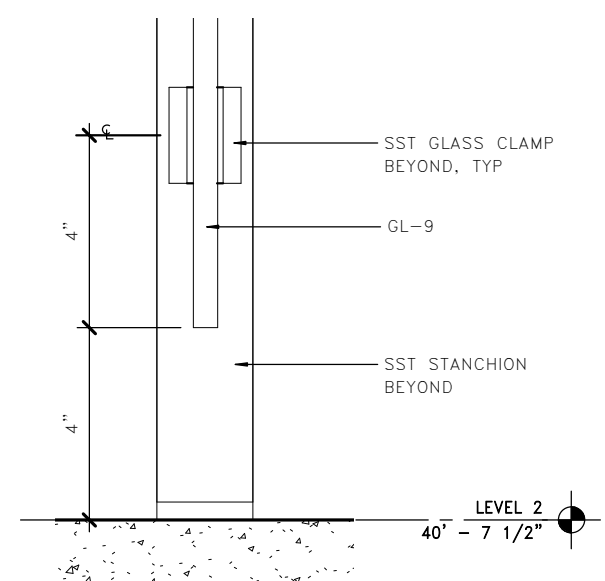
4 ATTENDANT RAILING - RAIL
A07.30
0 2" 4"
3" = 1'-0"



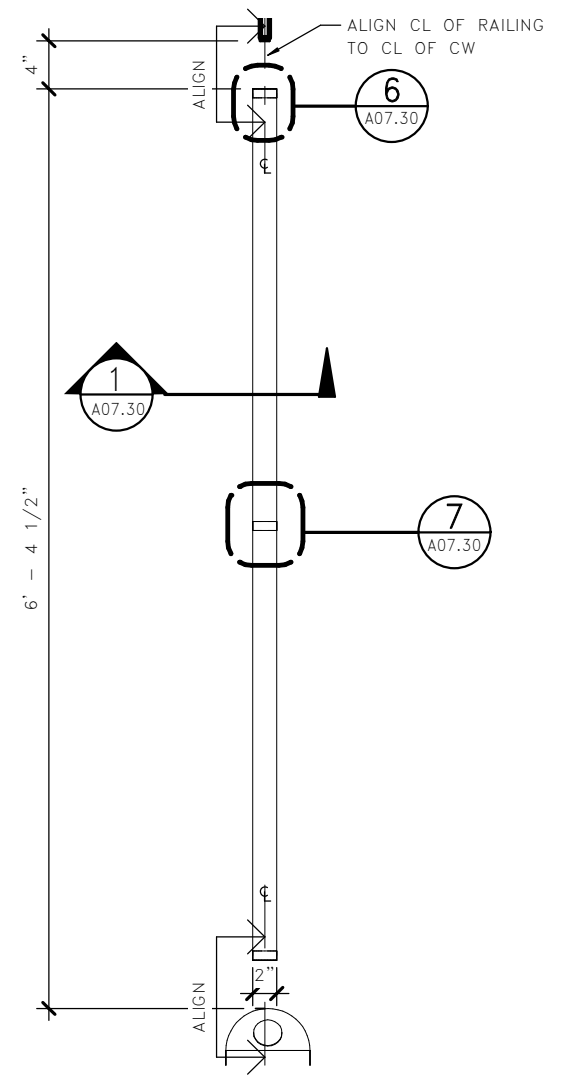
6 RAILING PLAN DETAIL
A07.30
0 2" 4"
3" = 1'-0"



7 RAILING PLAN DETAIL
A07.30
0 8" 16"
3" = 1'-0"



9 ATTENDANT RAIL - BASE
A07.30
0 2" 4"
3" = 1'-0"



10 ATTENDANT DESK RAIL PLAN
A07.30
0 8" 16"
3/4" = 1'-0"



FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\LMN\mft-CENTRAL_90%.rvt				
PRINTED: 9/21/2018 4:51:32 PM	LAST PRINTED BY: MFISHER			
SUBMITTAL DATE: 08/23/2018	DESIGNED BY: H. FITZPATRICK			
ENTERED BY: G. BISHOP	CHECKED BY: M. FISHER			
MAR PROJ ENGR: C. TORRES	DGN ENGR MNGR: N. MCINTOSH			
ASST SECRETARY: A. SCARTON				
	REVISION	DATE	BY	

4472 REGISTERED ARCHITECT
WALT W. NIEHOFF JR.
STATE OF WASHINGTON

DATE

08/23/18

DATE

Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)

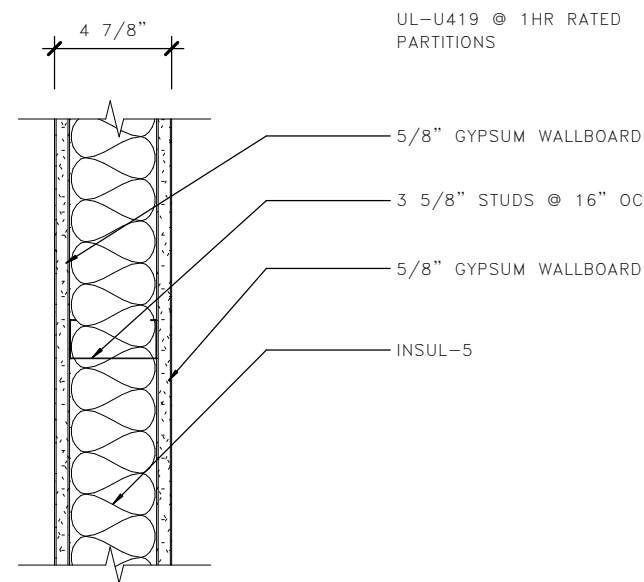
FERRY TERMINAL CONSTRUCTION

TERMINAL - INTERIOR DETAILS

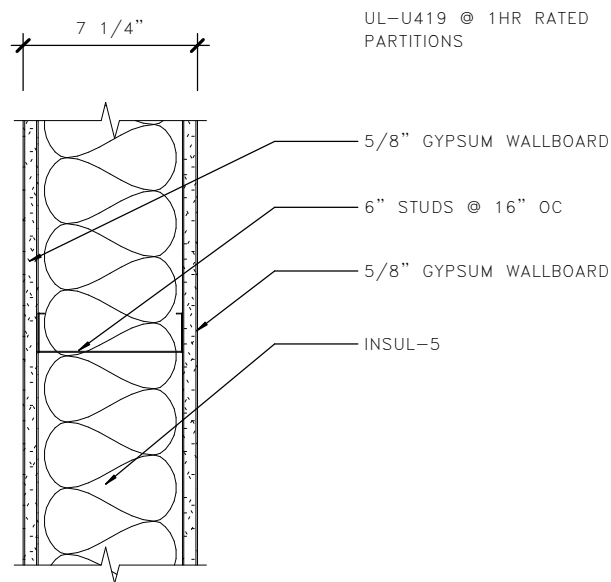
A07.30

SHEET 1058 OF 1521 SHEETS

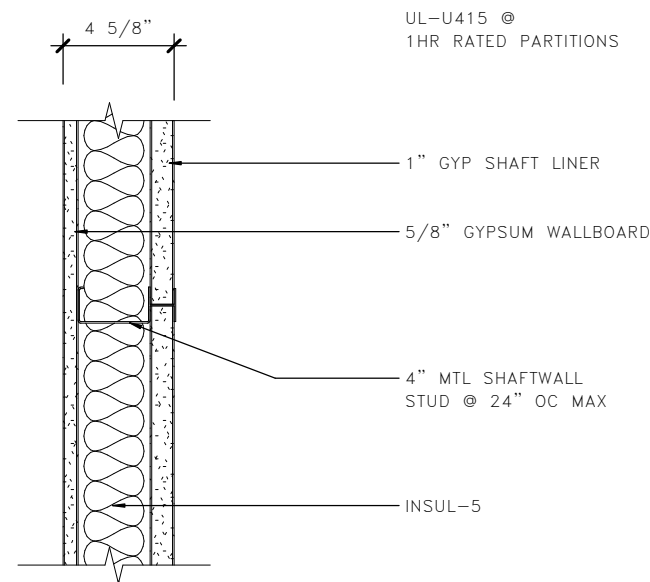
PARTITION CONFIGURATION										MODIFICATIONS	
<div><div><div><div><div><div>NOTE:</div><div>BRACING NOT ALLOWED WHEN STRUCTURE IS OPEN TO VIEW IN PUBLIC AREAS UNO.</div></div></div><div><div><div><div><div><div>STRUCTURE</div><div>BRACE WHERE REQUIRED</div><div>CEILING AS SCHEDULED</div><div>SEE PARTITION CONSTRUCTION TYPES</div><div>FLOOR</div></div><div>A</div><div>STUDS AND GWB CONTINUOUS TO UNDERSIDE OF STRUCTURE</div></div><div><div><div>STRUCTURE</div><div>BRACE WHERE REQUIRED</div><div>CEILING AS SCHEDULED</div><div>SEE PARTITION CONSTRUCTION TYPES</div><div>FLOOR</div></div><div>B</div><div>STUDS CONTINUOUS TO UNDERSIDE OF STRUCTURE; ONE SIDE OF GWB TO 6" ABOVE CEILING – ONE SIDE GWB TO UNDERSIDE OF STRUCTURE</div></div><div><div><div>STRUCTURE</div><div>BRACE WHERE REQUIRED</div><div>CEILING AS SCHEDULED</div><div>SEE PARTITION CONSTRUCTION TYPES</div><div>FLOOR</div></div><div>C</div><div>STUDS CONTINUOUS TO UNDERSIDE OF STRUCTURE; GWB TO 6" ABOVE CEILING</div></div><div><div><div>STRUCTURE</div><div>BRACE WHERE REQUIRED</div><div>CEILING AS SCHEDULED</div><div>SEE PARTITION CONSTRUCTION TYPES</div><div>FLOOR</div></div><div>D</div><div>PARTIAL HEIGHT PARTITION; FINISHED HEIGHT 11'-0" AFF, UNO</div></div></div></div></div></div></div></div>										<div><div></div><div>NO MODIFIER – CONSTRUCT PARTITION DETAIL AS SHOWN AT PARTITION TYPE DETAIL WITHOUT MODIFICATIONS.</div></div> <div><div>a</div><div>NO FINISH OR GWB ON THE SIDE OF WALL THAT FACES WALL CAVITY</div></div> <div><div>b</div><div>SUBSTITUTE 1/2" PLYWOOD & 1/4" TILE BACKER BOARD FOR GWB AT TILE FACE(S) OF PARTITION ONLY – NO FINISH ON OTHER SIDE OF STUD – COORDINATE WITH ROOM FINISH SCHEDULE AND/OR INTERIOR ELEVATIONS</div></div> <div><div>c</div><div>SUBSTITUTE 1/2" PLYWOOD & 1/4" TILE BACKER BOARD FOR GWB AT TILE FACE(S) ON BOTH SIDES OF PARTITION – COORDINATE WITH ROOM FINISH SCHEDULE AND/OR INTERIOR ELVATIONS</div></div> <div><div>d</div><div>SUBSTITUTE 1/2" PLYWOOD & 1/4" TILE BACKER BOARD FOR GWB AT TILE FACE(S) OF PARTITION ONLY – COORDINATE WITH ROOM FINISH SCHEDULE AND/OR INTERIOR ELEVATIONS</div></div> <div><div>e</div><div>SUBSTITUTE 3/4" PLYWOOD FOR FINISH GWB AT WD SDG FACE(S) OF PARTITION ONLY – COORDINATE WITH ROOM FINISH SCHEDULE AND/OR INTERIOR ELEVATIONS</div></div> <div><div>f</div><div>INSUL-5 NOT REQUIRED</div></div>	
INTERIOR PARTITION SCHEDULE NOTES:											
<div><div><div><div><div>THE PARTITION TYPE DESIGNATION IS A 4 UNIT CODE THAT INCLUDES THE FIRE RATING (WHERE APPLICABLE), CONFIGURATION, CONSTRUCTION, AND ANY MODIFICATION TO THE CONSTRUCTION.</div><div><div><div><div><div>FIRE ASSEMBLY RATING (HOURS)</div><div>PARTITION TYPE, SEE A07.41</div><div>2A</div><div>CONFIGURATION</div><div>110</div><div>MODIFICATION</div></div><div><div></div><div></div><div></div></div></div></div></div><div><div>PARTITION TYPE INDICATORS ARE NOTED ON FLOOR PLANS. SEE DRAWING SHEETS A02.00 – A02.08 FOR LOCATION AND EXTENT OR LIMITS OF RATED PARTITIONS.</div><div>ALSO SEE EXTERIOR WALL SECTIONS AND DETAILS FOR ADDITIONAL WALL/PARTITION FRAMING NOT SPECIFICALLY IDENTIFIED ON THE FLOOR PLANS.</div><div>PARTITION TYPES SHOWN ON THIS SHEET MAY NOT ALL BE USED ON THIS PROJECT.</div><div>ALL FIRE RATED ASSEMBLIES ARE BASED UPON IBC/ICC, UL, US GYPSUM AND CURRENT EDITION OF GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL GA-600. FIRE RATED PARTITIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TESTING AGENCY(IES) LISTED. REFER TO SPECIFIC TEST REPORTS FOR REQUIRED COMPONENTS AND ASSEMBLY.</div></div><div><div>ALL OTHER (NON-STRUCTURAL) PARTITIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS, MATERIALS MANUFACTURER, AND INDUSTRY STANDARDS.</div><div>ALL GYPSUM BOARD IS TO BE 5/8" THICK, TYPE "X", UNO.</div><div>PROVIDE BRACING ABOVE CEILING AS REQUIRED TO LIMIT DEFLECTION TO SPECIFIED ALLOWANCES. BRACING NOT ALLOWED WHEN STRUCTURE IS OPEN TO VIEW IN PUBLIC AREAS UNO.</div><div>SEE PROJECT SPECIFICATIONS FOR LIGHT GAGE METAL SUPPORT FRAMING AND ATTACHMENT, GYPSUM BOARD, THERMAL INSULATION, ACOUSTIC TREATMENT, TRIM, AND ACCESSORIES.</div><div>BLOCKING / BACKING IS REQUIRED AT THE FOLLOWING LOCATIONS:<div>A. WALL MOUNTED CABINETS</div><div>B. WALL MOUNTED ACCESSORIES AND EQUIPMENT</div><div>C. WALL MOUNTED DOORSTOPS</div><div>D. WALL MOUNTED DOOR HOLD-OPEN DEVICES AND OR CLOSERS</div><div>E. TOILET ROOM PARTITIONS</div><div>F. TOILET ROOM ACCESSORIES</div><div>G. OTHER LOCATIONS AS REQUIRED BY THE ARCHITECT AND INDUSTRY STANDARDS.</div></div><div>SEE DETAILS 1-7 ON SHEET A07.31 FOR TYPICAL PARTITION CONSTRUCTION INFORMATION.</div></div></div></div></div></div>											
<div>FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\LMN\mft-CENTRAL_90%.rvt</div> <div><div><div>PRINTED: 9/21/2018 4:51:33 PM</div><div>LAST PRINTED BY: MFISHER</div><div>SUBMITTAL DATE: 08/23/2018</div><div>DESIGNED BY: H. FITZPATRICK</div><div>ENTERED BY: G. BISHOP</div><div>CHECKED BY: M. FISHER</div><div>MAR PROJ ENGR: C. TORRES</div><div>DGN ENGR MNGR: N. MCINTOSH</div><div>ASST SECRETARY: A. SCARTON</div></div><div><div>FED.AID PROJ.NO.</div><div>WA-2017-007-00</div><div>REGION NO. 10</div><div>STATE WA</div><div>JOB NUMBER 18W121</div><div>CONTRACT NO. 00****</div></div><div><div>DATE</div><div>DATE</div></div></div> <div><div>4472</div><div>REGISTERED ARCHITECT</div><div>WALT W. NIEHOFF JR.</div><div>STATE OF WASHINGTON</div><div>08/23/18</div><div>DATE</div></div> <div><div><div><div></div><div>Washington State</div><div>Department of Transportation</div><div>WASHINGTON STATE FERRIES</div></div></div><div><div>SR 525</div><div>MUKILTEO FERRY TERMINAL (PHASE 2)</div><div>FERRY TERMINAL CONSTRUCTION</div><div>PARTITION NOTES</div></div></div> <div><div>A07.40</div><div>SHEET 1059</div><div>OF 1521</div><div>SHEETS</div></div>											



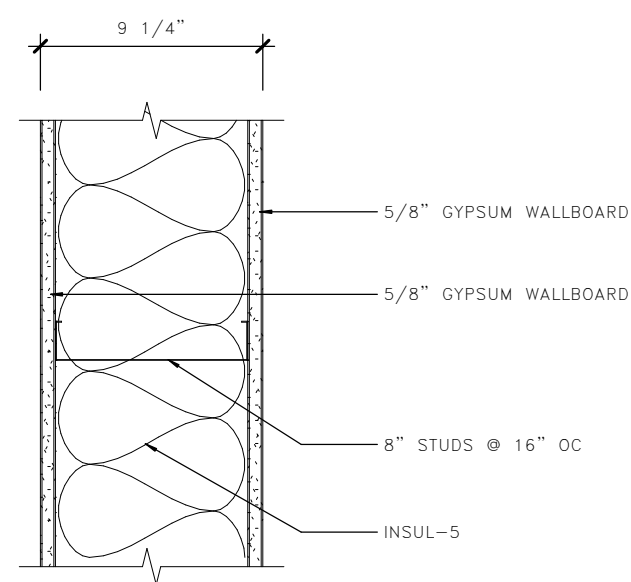
1 **GWB PARTITION – TYPE 1**
A07.41



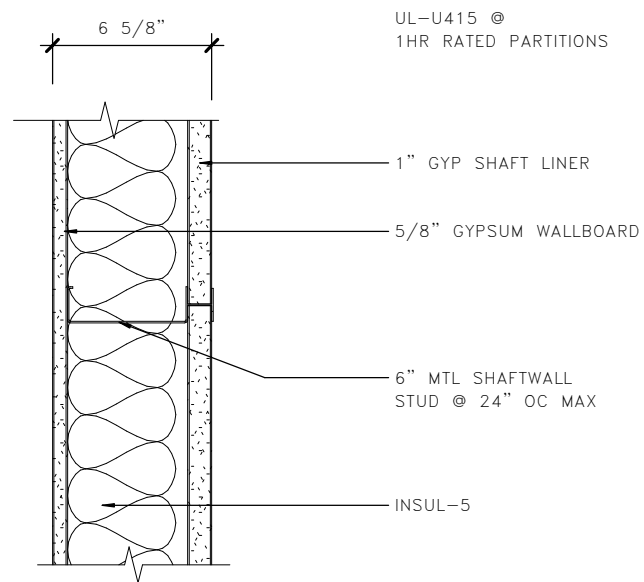
2 **GWB PARTITION – TYPE 2**
A07.41



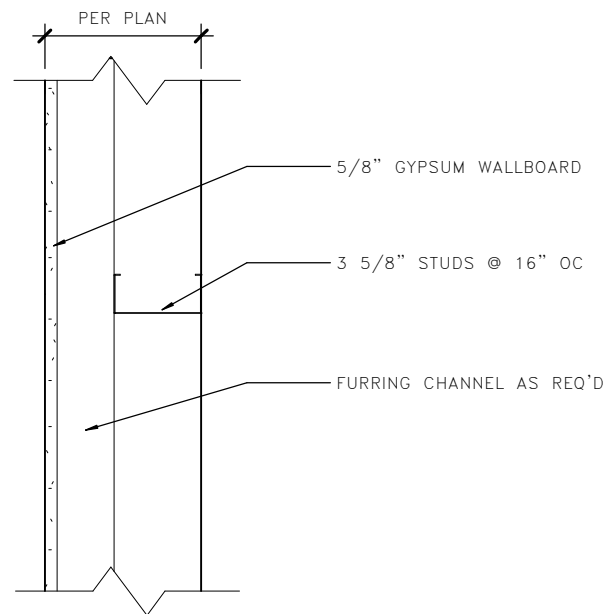
3 **GWB PARTITION – TYPE 3**
A07.41



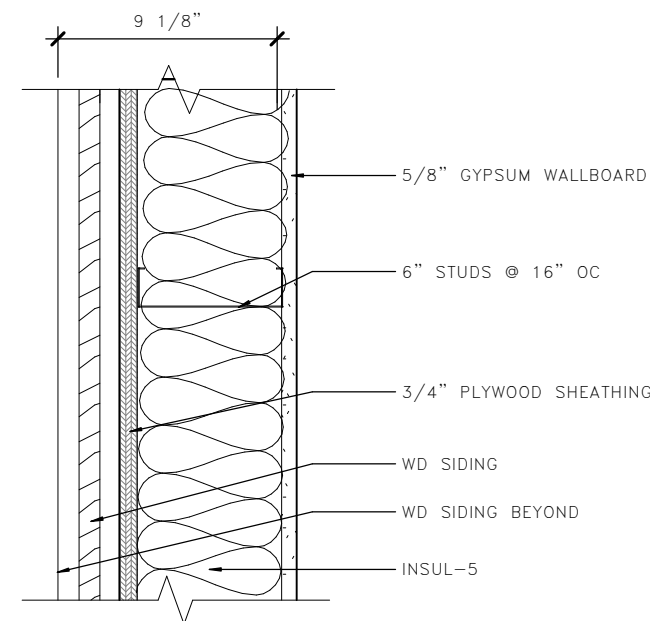
4 **GWB PARTITION – TYPE 4**
A07.41



5 **GWB PARTITION – TYPE 5**
A07.41

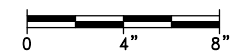


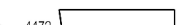

6 **FURRING PARTITION – TYPE 6**
A07.31



7 **FURRING PARTITION – TYPE 7**
A07.31

LMN



FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\LMN\mft-CENTRAL_90%.rvt										<div>4472 REGISTERED ARCHITECT  WALT W. NIEHOFF JR. STATE OF WASHINGTON</div>		<div> Washington State Department of Transportation WASHINGTON STATE FERRIES</div>		SR 525		A07.41
PRINTED: 9/21/2018 4:51:34 PM		LAST PRINTED BY: MFISHER		FED.AID PROJ.NO.		MUKILTEO FERRY TERMINAL (PHASE 2)										
SUBMITTAL DATE: 08/23/2018		DESIGNED BY: H. FITZPATRICK		08/23/2018		WA-2017-007-00		REGION NO. 10		STATE WA		SHEET 1060				
ENTERED BY: G. BISHOP		CHECKED BY: M. FISHER		08/23/2018		JOB NUMBER 18W121		CONTRACT NO. 00****		DATE 08/23/18		OF 1521				
MAR PROJ ENGR: C. TORRES		DGN ENGR MNGR: N. MCINTOSH		ASST SECRETARY: A. SCARTON		REVISION		DATE		BY		PARTITION TYPES				
										DATE				SHEETS		

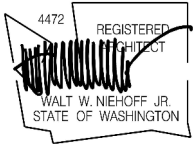
DOOR NO.	FROM ROOM:NAME	RATING (MIN.)	DOOR		PAIR	TYPE	DOOR			STC	UNDERCUT	TYPE	FRAME			DETAILS			HARDWARE			REMARKS
			OPENING SIZE				MATERIAL	FINISH	GLAZING				MATERIAL	FINISH	GLAZING (SIDELIG HT, TRANSOM , ETC)	JAMB	HEAD	THRESH	PANIC	ELECTRIC HARDWARE	GROUP	
			WIDTH	HEIGHT																		
LEVEL 1																						
101	SPRINKLER	NR	3' – 6"	7' – 0"		A	HM	HPC-2	-	-	0'-0"	4	HM	HPC-2	GL-1	4/A08.10	1/A08.10	5/A08.10	-	-	05	ACCESS CONTROL – SEE WSF SECURITY DWGS
102	ELEV EQUIP 1	NR	3' – 6"	7' – 0"		A	HM	HPC-2	-	39	0'-0"	4	HM	HPC-2	GL-1	4/A08.10	1/A08.10	5/A08.10	-	-	05	
103A	MECH	NR	6' – 0"	7' – 0"	Y	AA	HM	HPC-2	-	39	0'-0"	5	HM	HPC-2	GL-1	4/A08.10	1/A08.10	5/A08.10	-	-	06	PROVIDE SOUND PROOFING
103B	MECH	NR	6' – 0"	7' – 0"	Y	AA	HM	HPC-2	-	39	0'-0"	5	HM	HPC-2	GL-1	4/A08.10	1/A08.10	5/A08.10	-	-	06	PROVIDE SOUND PROOFING
104	ELEC	NR	3' – 0"	7' – 0"		A	HM	HPC-2	-	-	0'-0"	4	HM	HPC-2	GL-1	4/A08.10	1/A08.10	5/A08.10	-	-	05	ACCESS CONTROL – SEE WSF SECURITY DWGS
107	TOILET	NR	3' – 0"	7' – 0"		A	HM	PNT	-	-	0'-0"	1	HM	PNT	-	1/A08.03	1/A08.03	-	-	-	07	
109	IT	NR	3' – 0"	7' – 0"		A	HM	HPC-2	-	-	0'-0"	4	HM	HPC-2	GL-1	4/A08.10	1/A08.10	5/A08.10	-	-	05	ACCESS CONTROL – SEE WSF SECURITY DWGS
110A	VEHICLE ATTENDANT	NR	3' – 0"	7' – 0"		A	HM	HPC-2	-	-	0'-0"	4	HM	HPC-2	GL-1	4/A08.10	1/A08.10	5/A08.10	-	-	08	ACCESS CONTROL – SEE WSF SECURITY DWGS
110B	CORRIDOR	NR	3' – 0"	7' – 0"		A	HM	HPC-2	-	-	0'-0"	4	HM	HPC-2	GL-1	4/A08.10	1/A08.10	5/A08.10	-	-	08	ACCESS CONTROL – SEE WSF SECURITY DWGS
111	TOILET	NR	3' – 0"	7' – 0"		A	HM	PNT	-	-	0'-0"	1	HM	PNT	-	1/A08.03	1/A08.03	-	-	-	07	ACCESS CONTROL – SEE WSF SECURITY DWGS
111A	LAV	NR	3' – 0"	7' – 0"		A	HM	PNT	-	-	0'-0"	1	HM	PNT	-	1/A08.03	1/A08.03	-	-	-	10	
112	CORRIDOR	NR	3' – 0"	7' – 0"		A	HM	PNT	-	-	0'-0"	1	HM	PNT	-	1/A08.03	1/A08.03	-	-	-	11	
113	SUPERVISOR	NR	3' – 0"	7' – 0"		A	HM	PNT	-	-	0'-0"	1	HM	PNT	-	1/A08.03	1/A08.03	-	-	-	11	ACCESS CONTROL – SEE WSF SECURITY DWGS
114	WSP	NR	3' – 0"	7' – 0"		A	HM	PNT	-	-	0'-0"	1	HM	PNT	-	1/A08.03	1/A08.03	-	-	-	11	ACCESS CONTROL – SEE WSF SECURITY DWGS
115A	CONFERENCE	NR	3' – 0"	7' – 0"		A	HM	PNT	-	-	0'-0"	1	HM	PNT		1/A08.03	1/A08.03	-	-	-	09	ACCESS CONTROL – SEE WSF SECURITY DWGS
115B	CONFERENCE	NR	3' – 0"	7' – 0"		A	HM	HPC-2	-	-	0'-0"	6	HM	HPC-2	GL-2	4/A08.10	1/A08.10	5/A08.10	-	-	08	SEE A08.11 FOR SIDELIGHT DETAILS
116	BREAKROOM	NR	3' – 0"	7' – 0"		A	HM	PNT	-	-	0'-0"	1	HM	PNT	-	1/A08.03	1/A08.03	-	-	-	09	ACCESS CONTROL – SEE WSF SECURITY DWGS
117	SUPERVISOR	NR	3' – 0"	7' – 0"		A	HM	PNT	-	-	0'-0"	1	HM	PNT	-	1/A08.03	1/A08.03	-	-	-	11	ACCESS CONTROL – SEE WSF SECURITY DWGS
118	VESSEL STOR	NR	3' – 0"	7' – 0"		A	HM	HPC-2	-	-	0'-0"	4	HM	HPC-2	GL-1	4/A08.10	1/A08.10	5/A08.10	-	-	05	ACCESS CONTROL – SEE WSF SECURITY DWGS
LEVEL 1 – MB																						
120	MECH EQUIP	NR	3' – 0"	7' – 4 1/2"		A	HM	MTLP-3A	-	39	0'-0"	1	HM	HPC-2	-	4/A08.15	1/A08.15	3/A08.15	-	-	01	
121	VENDOR EQUIPMENT ROOM	NR	3' – 0"	7' – 8 1/4"		A	HM	MTLP-3A	-	-	0'-0"	1	HM	HPC-2	-	4/A08.15	1/A08.15	3/A08.15	-	-	01	
122	ELEV EQUIP 2	NR	3' – 0"	7' – 8 1/4"		A	HM	MTLP-3A	-	39	0'-0"	1	HM	HPC-2	-	1/A08.17	2/A08.17	3/A08.15	-	-	01	
123	MAIN EQUIPMENT ROOM	NR	3' – 8"	7' – 4 1/2"		A	HM	MTLP-3A	-	-	0'-0"	1	HM	HPC-2	-	4/A08.15	1/A08.15	3/A08.15	-	-	01	ACCESS CONTROL – SEE WSF SECURITY DWGS
124A	ELECTRICAL	NR	4' – 0"	7' – 8 1/4"		A	HM	MTLP-3A	-	39	0'-0"	1	HM	HPC-2	-	4/A08.15	1/A08.15	3/A08.15	-	-	08	ACCESS CONTROL – SEE WSF SECURITY DWGS
124B	ELECTRICAL	NR	3' – 0"	7' – 4 1/2"		A	HM	MTLP-3A	-	39	0'-0"	1	HM	HPC-2	-	4/A08.15	1/A08.15	3/A08.15	-	-	08	ACCESS CONTROL – SEE WSF SECURITY DWGS
125	MAINT STORAGE	NR	6' – 0"	7' – 4 1/2"	Y	AA	HM	MTLP-3A	-	39	0'-0"	2	HM	HPC-2	-	4/A08.15	1/A08.15	3/A08.15	-	-	17	ACCESS CONTROL – SEE WSF SECURITY DWGS
131	JANITOR	NR	3' – 0"	7' – 8 1/4"		A	HM	HPC-2	-	-	0'-0"	1	HM	HPC-2	-	4/A08.16	1/A08.16	3/A08.16	-	-	13	
132	CHASE	NR	2' – 8"	7' – 8 1/4"		A	HM	HPC-2	-	-	0'-0"	1	HM	HPC-2	-	4/A08.16	1/A08.16	3/A08.16	-	-	12	
133	WOMEN	NR	3' – 0"	7' – 8 1/4"		A	HM	HPC-2	-	-	0'-0"	1	HM	HPC-2	-	4/A08.16	1/A08.16	3/A08.16	-	-	13	
134	JANITOR	NR	3' – 0"	7' – 8 1/4"		A	HM	HPC-2	-	-	0'-0"	1	HM	HPC-2	-	4/A08.16	1/A08.16	3/A08.16	-	-	05	
135	WATER ENTRY	NR	3' – 0"	7' – 8 1/4"		A	HM	HPC-2	-	-	0'-0"	1	HM	HPC-2	-	4/A08.16	1/A08.16	3/A08.16	-	-	12	ACCESS CONTROL – SEE WSF SECURITY DWGS

NOTE:
WHERE ACCESS CONTROL IS NOTED IN REMARKS – SEE WSF SECURITY DWGS FOR ADDITIONAL HARDWARE REQUIRED AT DOOR – CONTRACTOR SHALL FULLY COORDINATE PRIOR TO DOOR INSTALLATION

LMN

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DESIGNED BY: H. FITZPATRICK	08/23/2018				WA-2017-007-00
ENTERED BY: G. BISHOP	08/23/2018				REGION NO. STATE
CHECKED BY: M. FISHER	08/23/2018				10 WA
MAR PROJ ENGR: C. TORRES					JOB NUMBER
DGN ENGR MNGR: N. MCINTOSH					18W121
ASST SECRETARY: A. SCARTON					CONTRACT NO.
					00****
		REVISION		DATE	BY

DATE



08/23/18
DATE



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

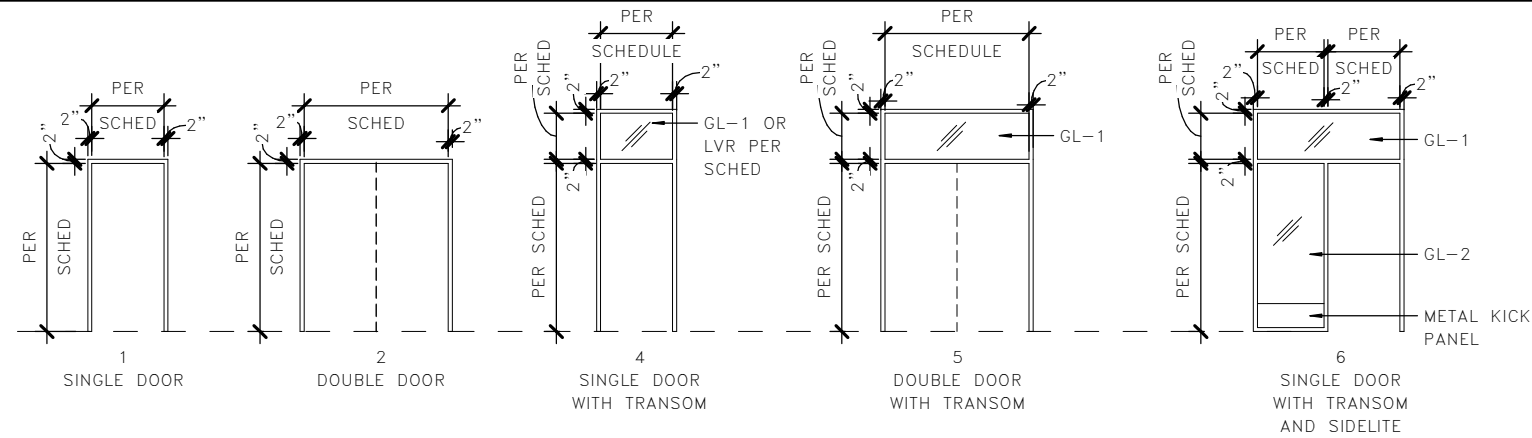
LEVEL 1 – DOOR SCHEDULE

A08.00
SHEET
1061
OF
1521
SHEETS

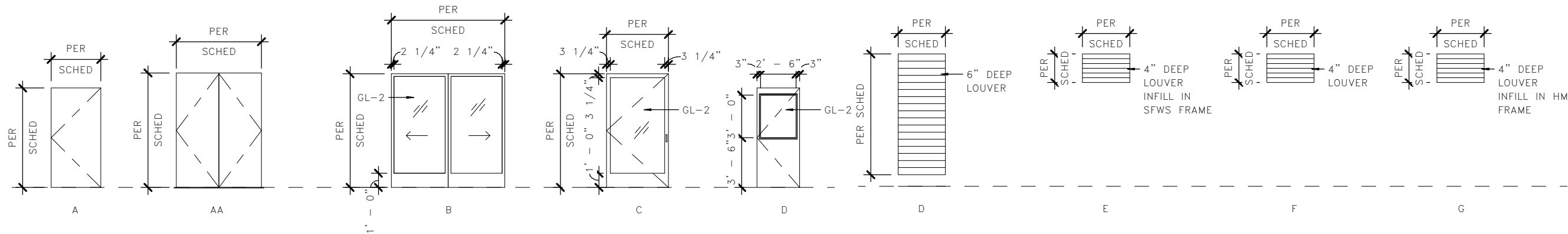
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**Washington State
Department of Transportation**
WASHINGTON STATE FERRIES



1 DOOR FRAME LEGEND





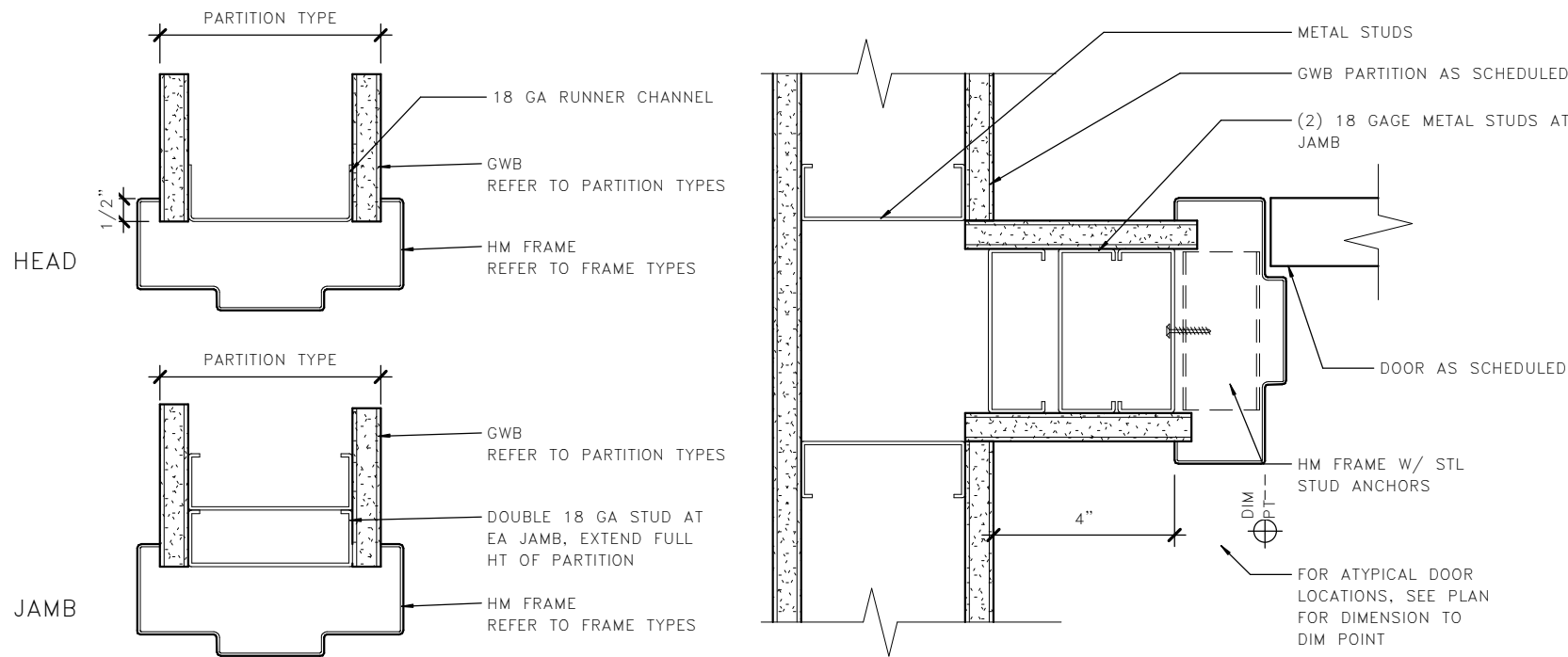
3 DOOR TYPES LEGEND

4 LOUVER TYPES LEGEND

COUNT	KEYNOTE	TYPE	LEVEL	UNIT HEIGHT	UNIT WIDTH	UNIT DEPTH	HEAD	LVR_SILL	JAMB	COMMENTS
1	LVR-1	D	LEVEL 1	9' - 3 1/2"	3' - 6"	6"	3/A08.20	6/A08.20	2/A08.20	TB MECHANICAL RM
1	LVR-1	D	LEVEL 1	9' - 3 1/2"	3' - 6"	6"	3/A08.20	6/A08.20	2/A08.20	TB MECHANICAL RM
1	LVR-2	E	LEVEL 1 - MB	2' - 1 3/4"	3' - 9 3/4"	4"	4/A06.61	4/A06.61	3/A06.62	MB CHASE RM 132 - INFILL TO SFWS-1
1	LVR-3	F	TOLL PLAZA	1'-2"	1'-2"	4"	3/A08.21	6/A08.21	5/A08.21	AIR INTAKE FOR ADA BOOTH
1	LVR-3	G	TOLL PLAZA	1'-2"	3'-0"	4"				EQUIPMENT RM 150 - INFILL TO HM TRANSOM
1	LVR-3	G	TOLL PLAZA	1'-2"	3'-0"	4"				ELEC RM 151 - INFILL TO HM TRANSOM
1	LVR-3	G	TOLL PLAZA	1'-2"	3'-0"	4"				STO RM 152 - INFILL TO HM TRANSOM

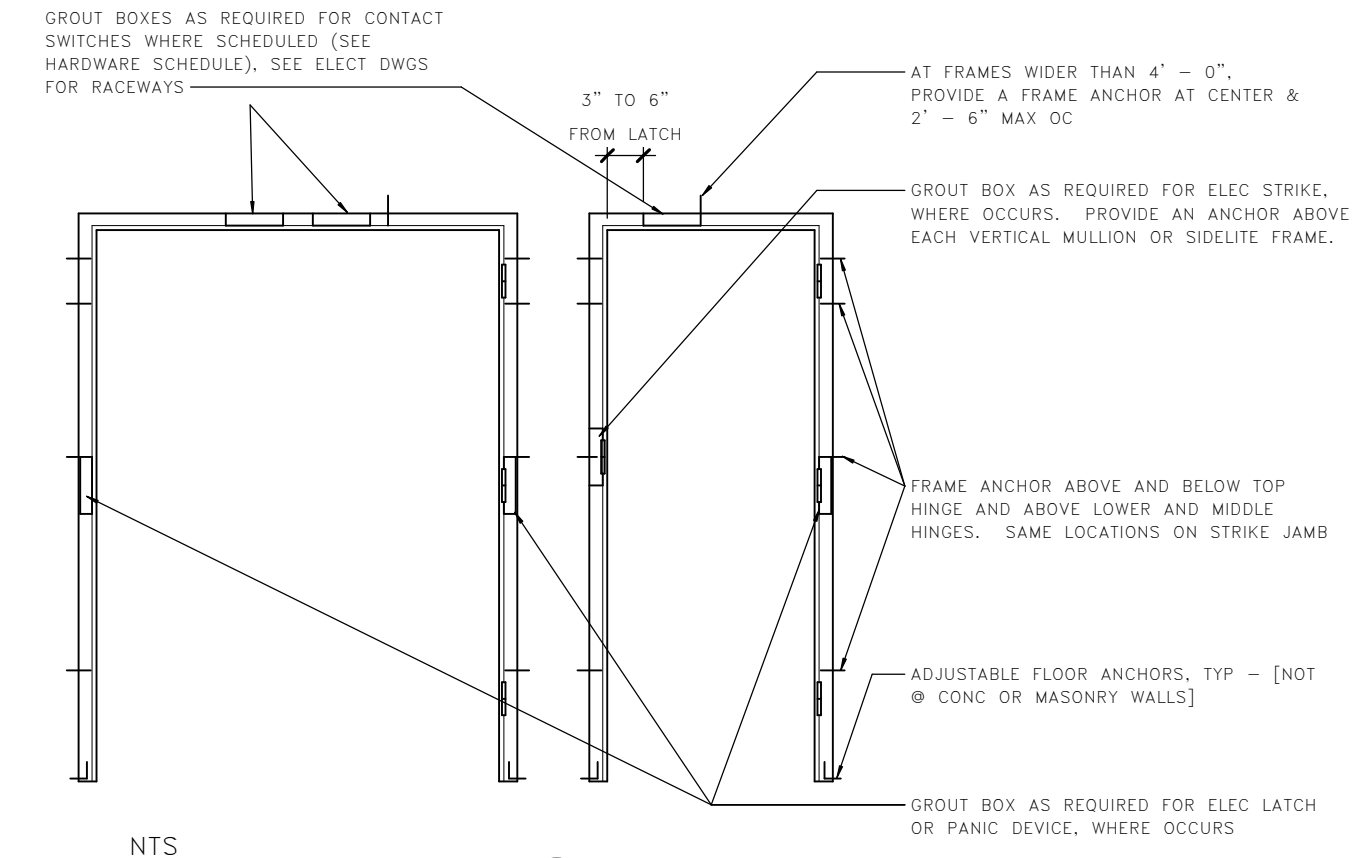


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SUBMITTAL DATE: 08/23/2018		DESIGNED BY: H. FITZPATRICK		08/23/2018		ENTERED BY: G. BISHOP		08/23/2018		CHECKED BY: M. FISHER		08/23/2018		REGION NO. 10		STATE WA		JOB NUMBER 18W121		DOOR AND FRAME TYPES		OF 1521 SHEETS	
MAR PROJ ENGR: C. TORRES		DGN ENGR MNGR: N. MCINTOSH		ASST SECRETARY: A. SCARTON		REVISION		DATE		BY		CONTRACT NO. 00****											

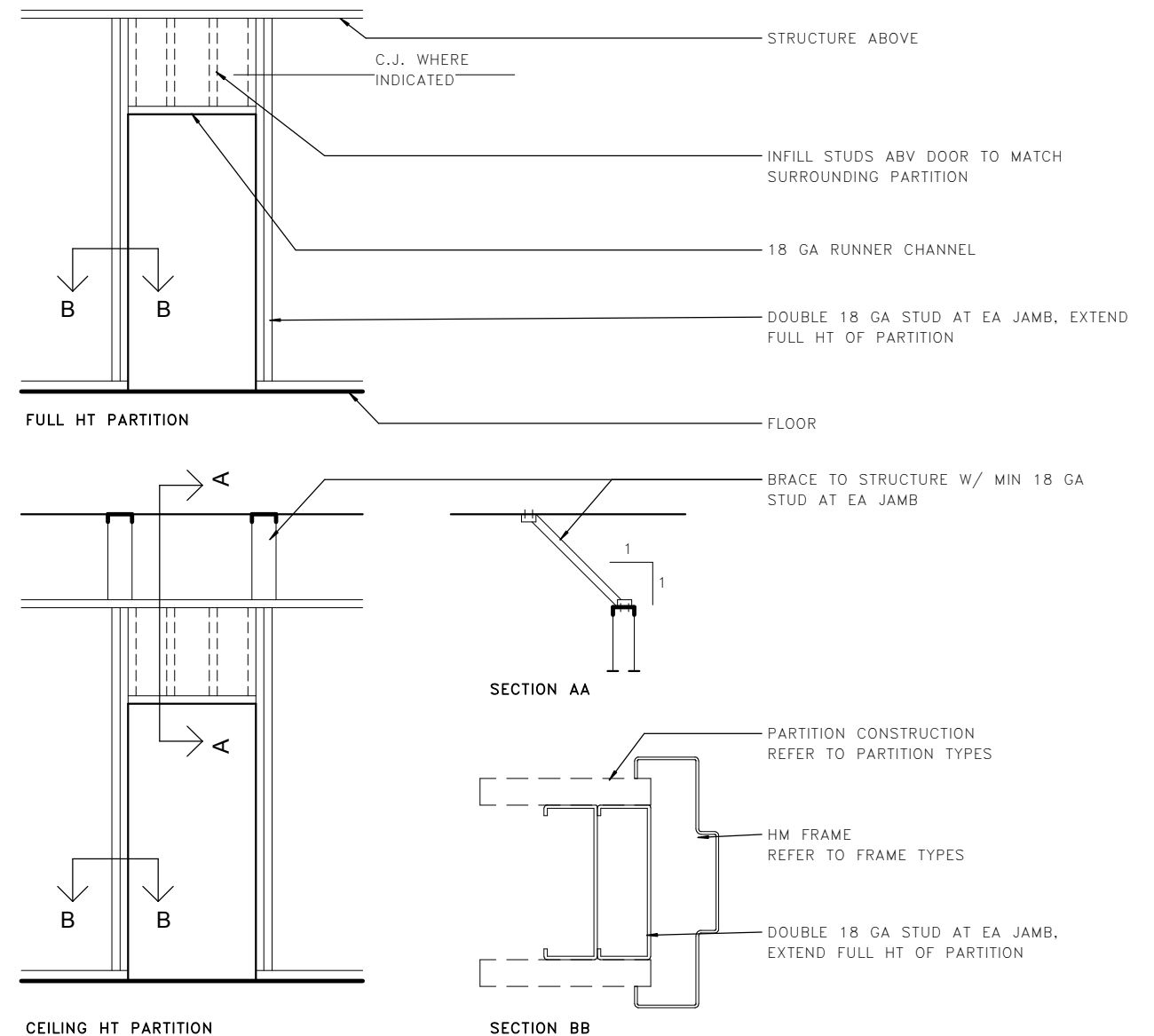


1 TYPICAL HM DETAILS
A08.03

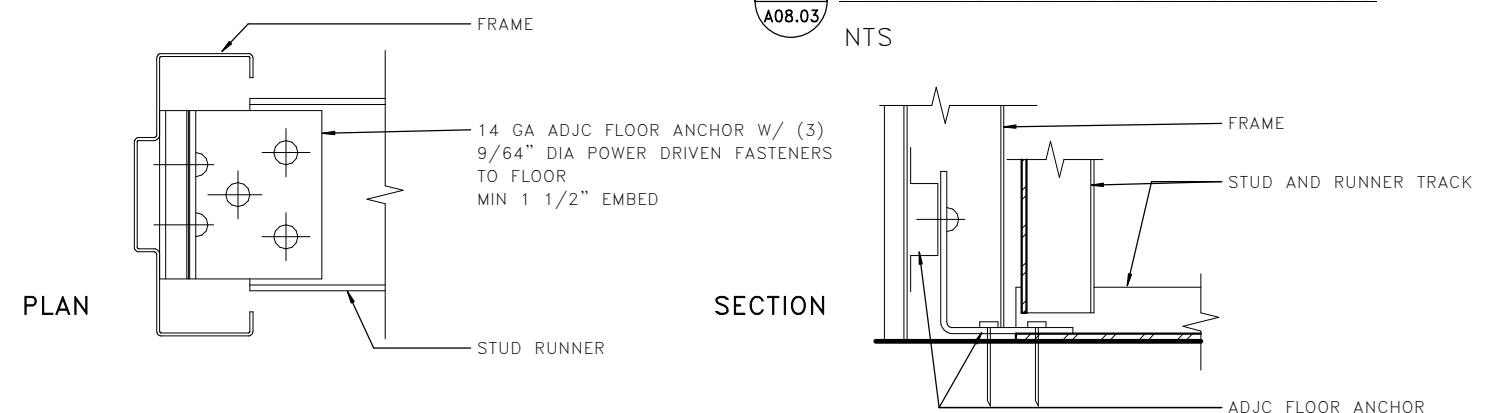
2 TYP JAMB LOCATION
A08.03



4 FRAME ANCHOR LOCATIONS
A08.03



3 FRAMING AT DOOR OPENINGS
A08.03
NTS



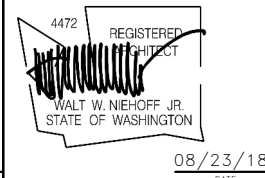
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A08.03

LMN

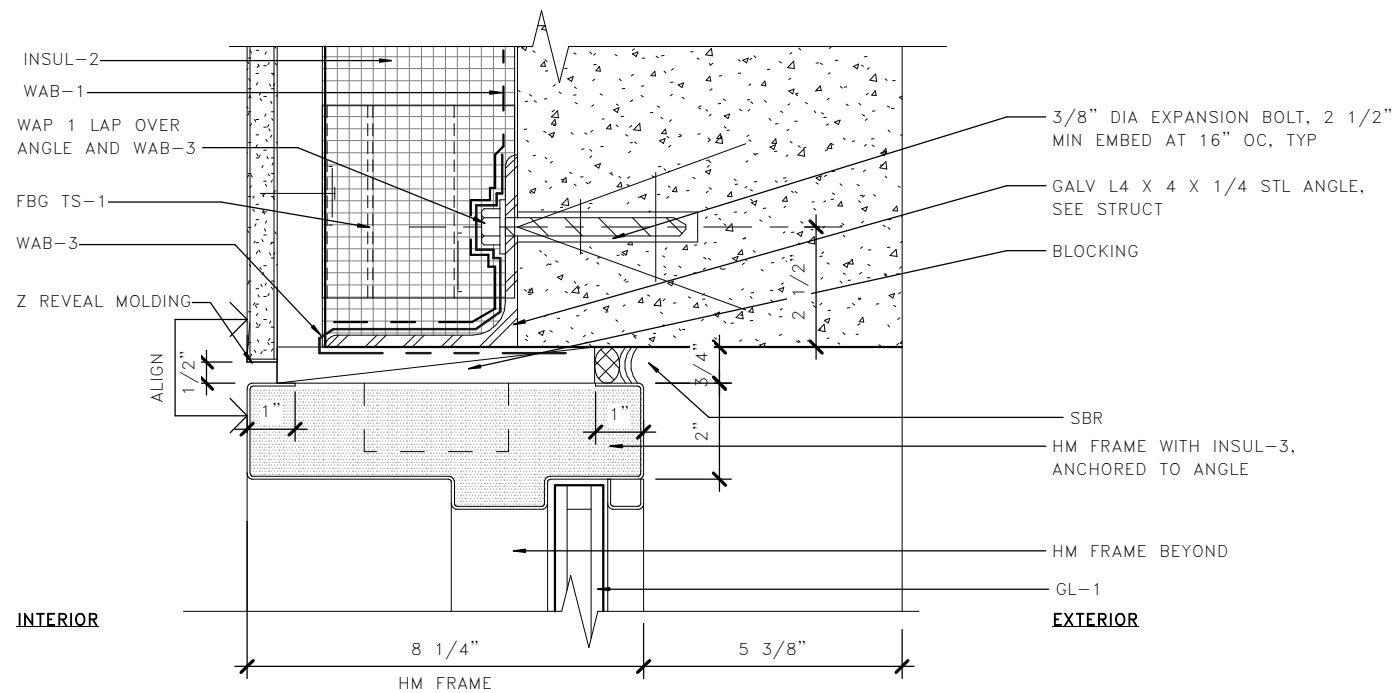


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
DOOR AND FRAME DETAILS

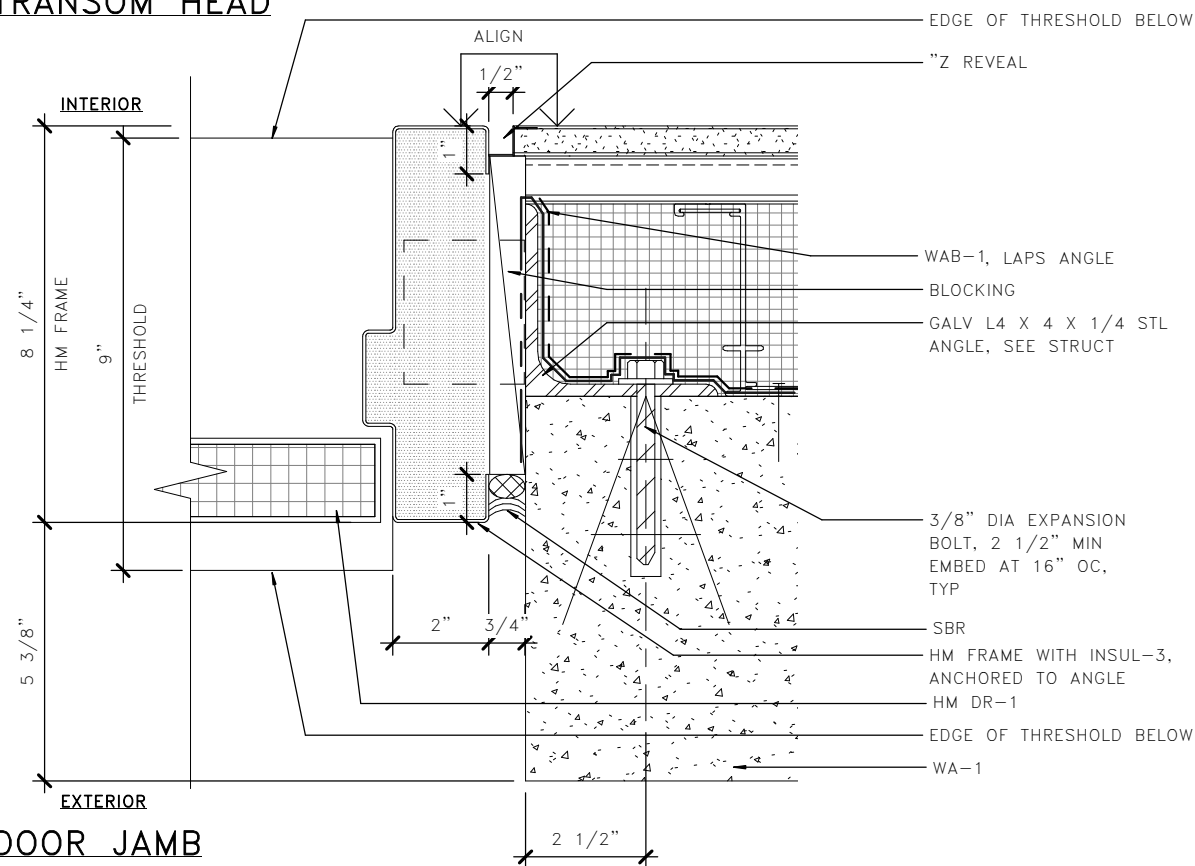
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DESIGNED BY: H. FITZPATRICK	08/23/2018				JOB NUMBER 18W121	
ENTERED BY: G. BISHOP	08/23/2018				CONTRACT NO. 00****	
CHECKED BY: M. FISHER	08/23/2018					
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DGN ENGR MNGR: N. MCINTOSH						
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		



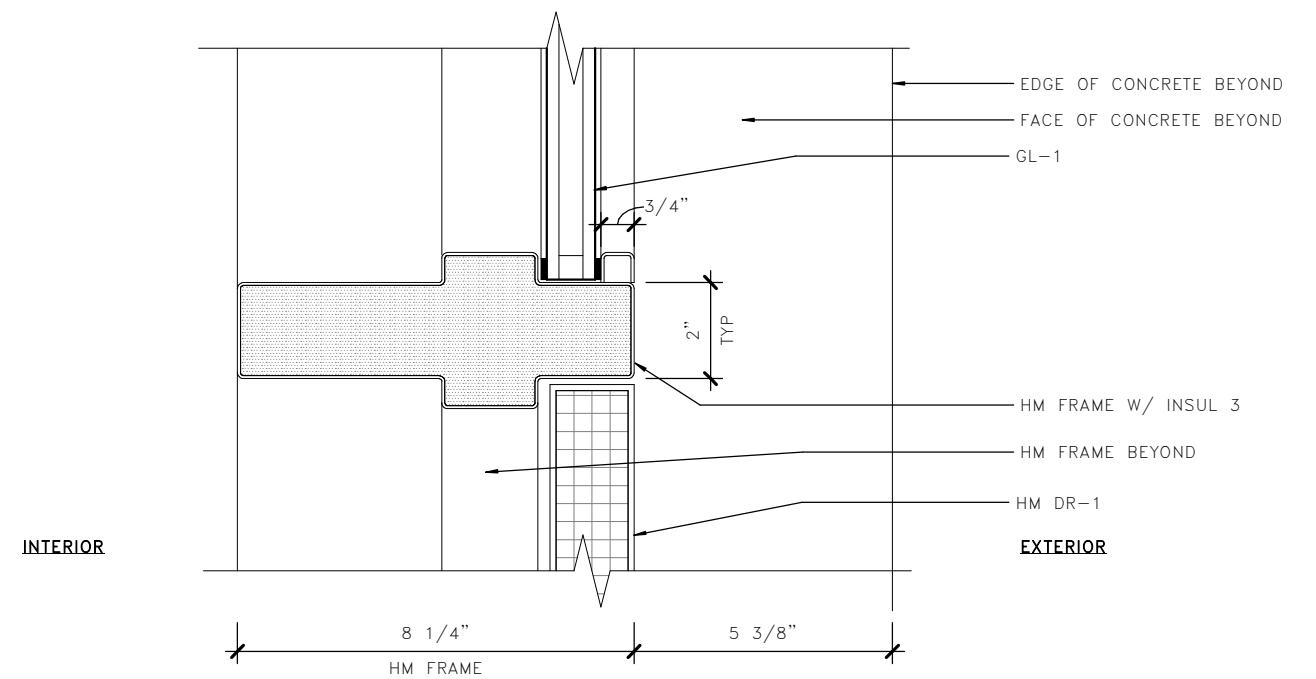
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SHEET 1064
OF 1521
SHEETS



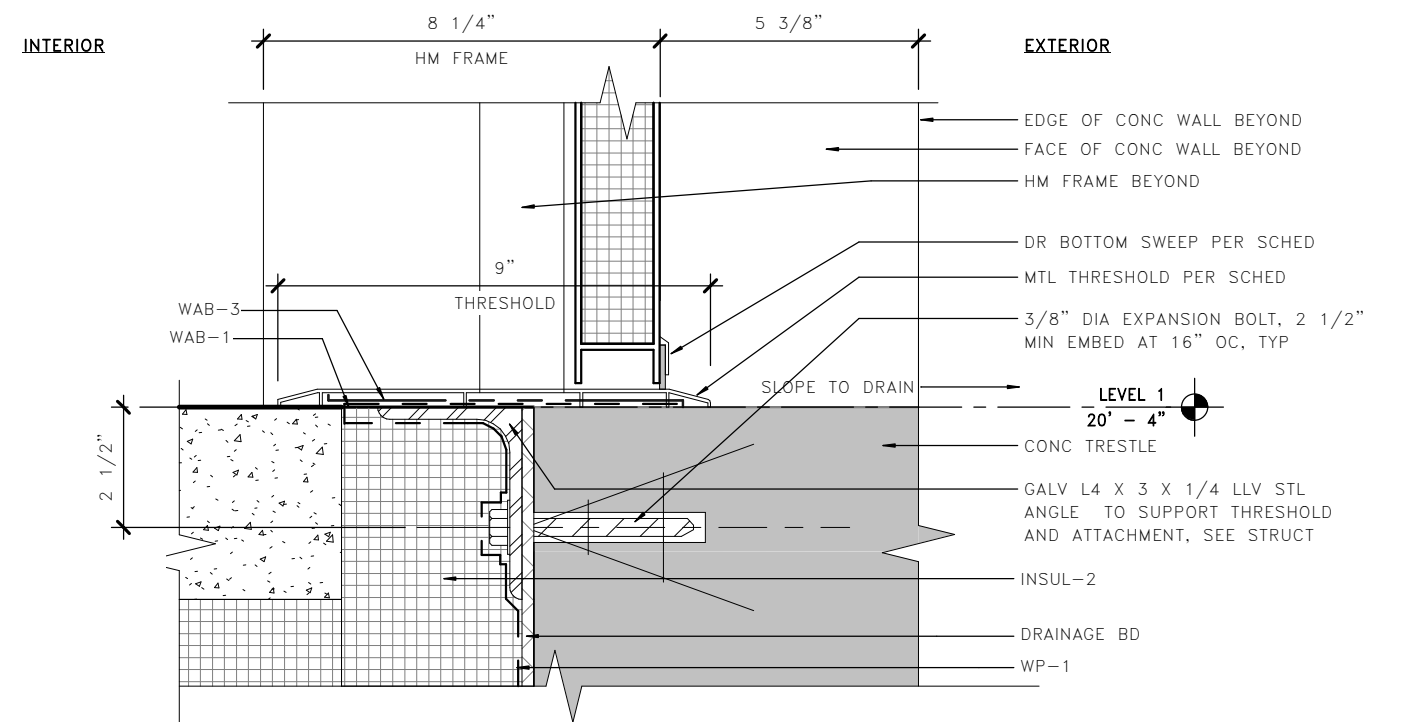
1 TRANSOM HEAD
A08.10



4 DOOR JAMB
A08.10



2 DOOR HEAD
A08.10



5 DOOR THRESHOLD
A08.10

LMN

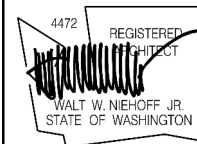


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ENTERED BY:	G. BISHOP								
CHECKED BY:	M. FISHER								
MAR PROJ ENGR:	C. TORRES								
DGN ENGR MNGR:	N. MCINTOSH								
ASST SECRETARY:	A. SCARTON								
		REVISION		DATE	BY				

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

DATE

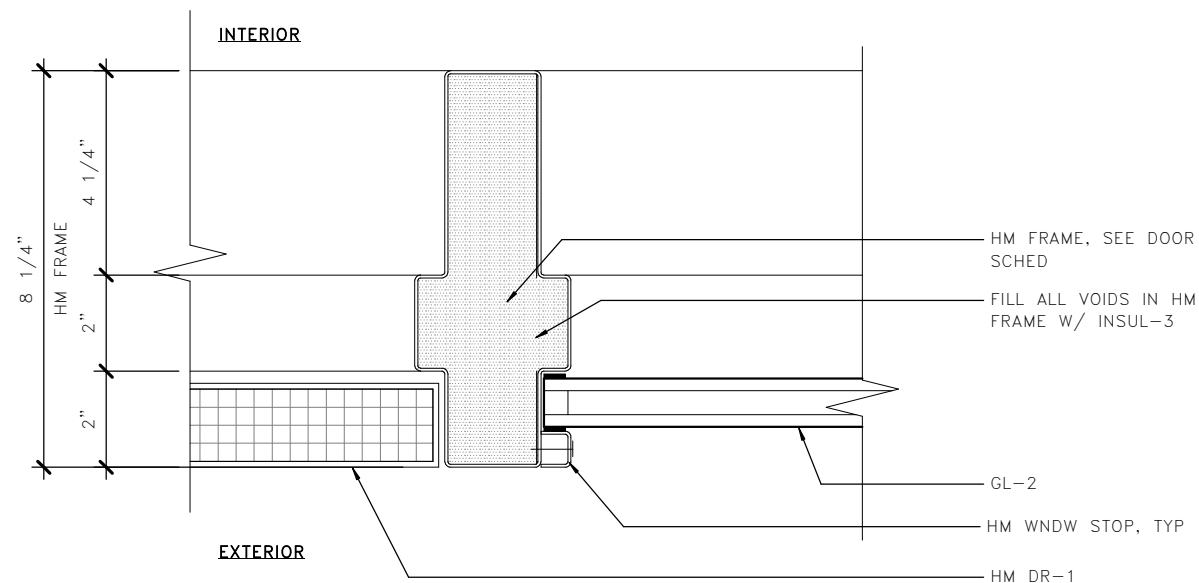


08/23/18
DATE

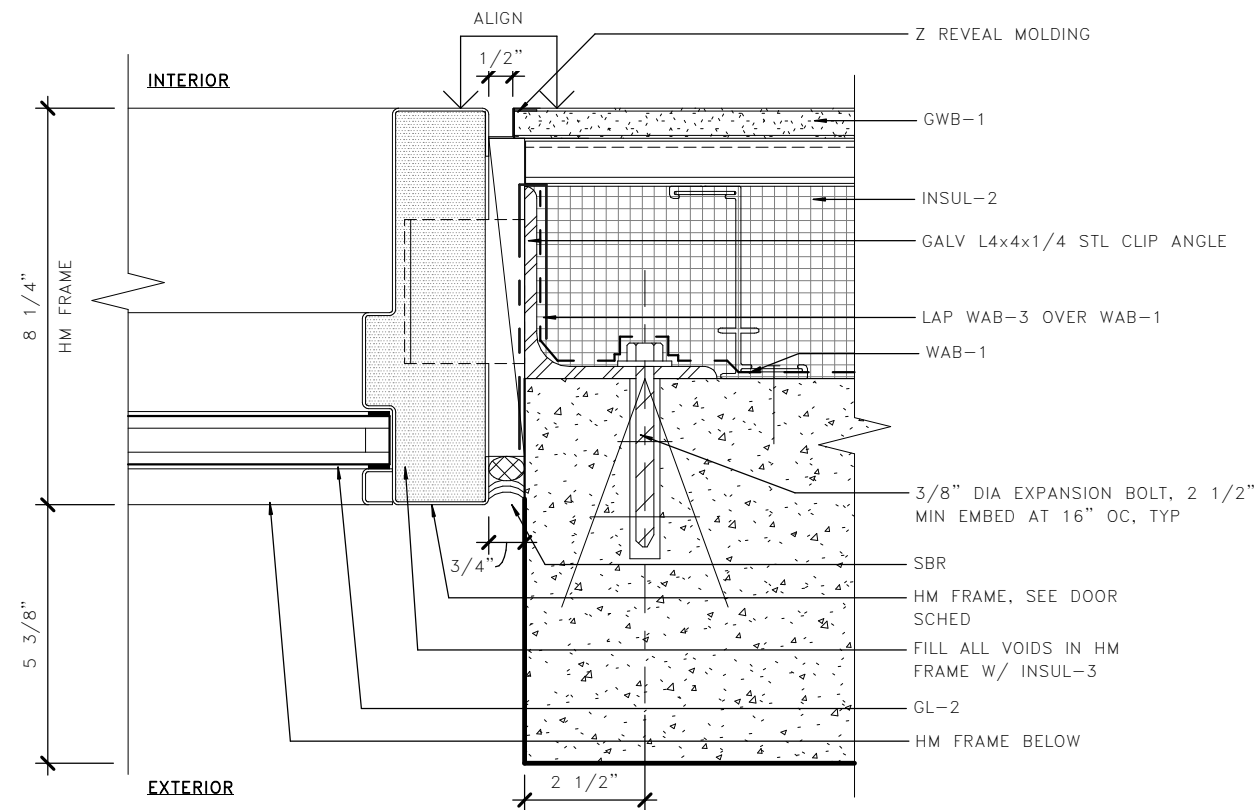


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
DOOR DETAILS

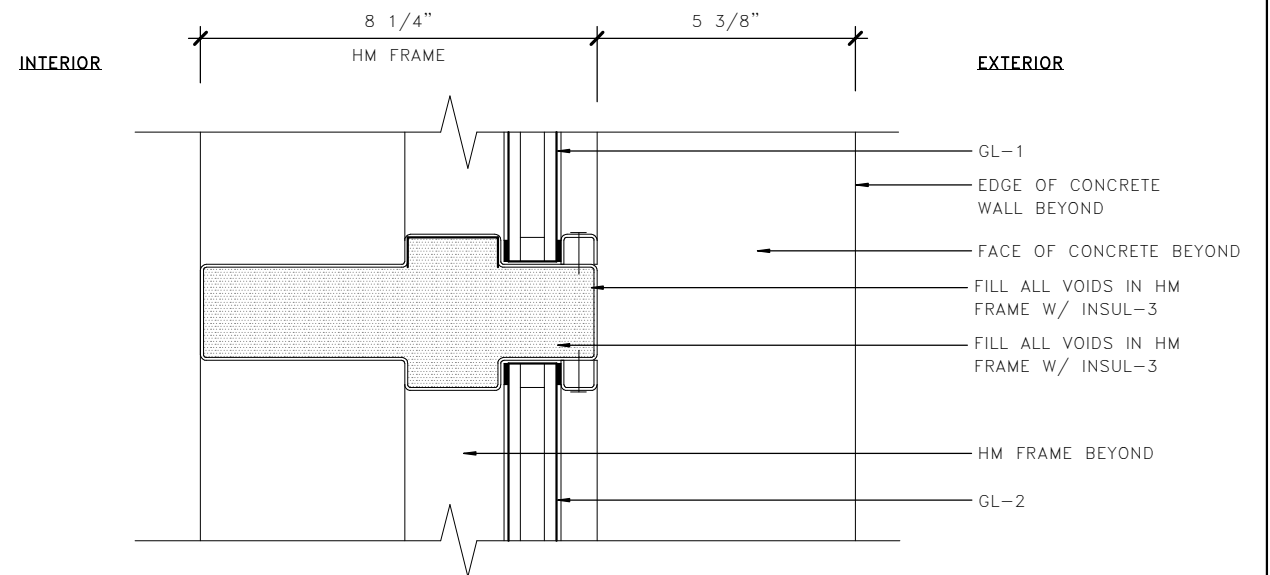
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SHEET
1065
OF
1521
SHEETS



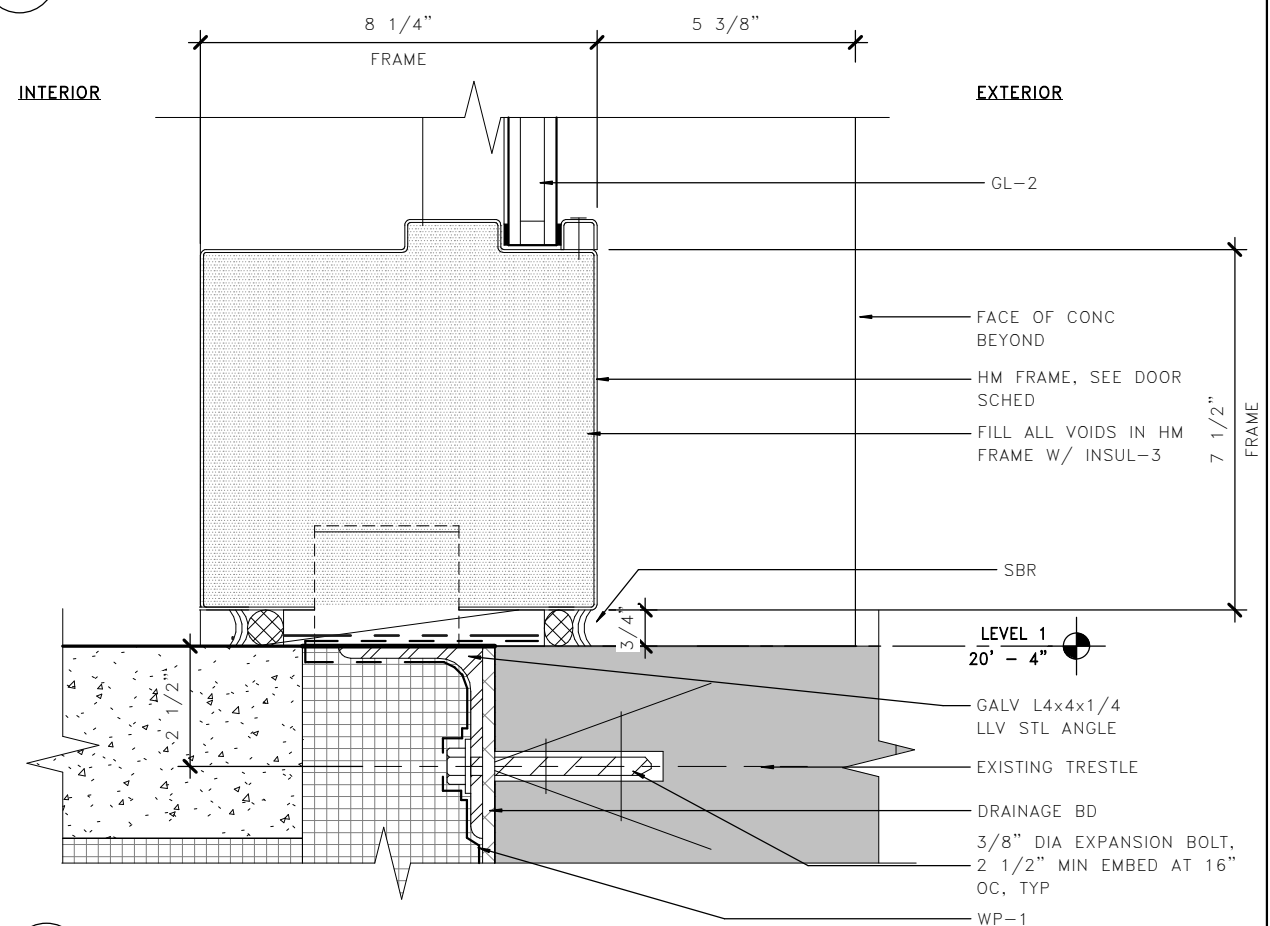
1 DOOR JAMB @ SIDELITE
A08.11



3 SIDELITE JAMB
A08.11



2 SIDELITE MULLION, HORIZONTAL
A08.11

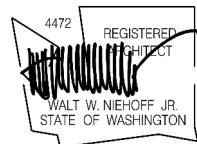


4 SIDELITE SILL
A08.11

LMN

0 2" 4"

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ENTERED BY:	G. BISHOP	08/23/2018				REGION NO.	10	STATE	WA
CHECKED BY:	M. FISHER	08/23/2018				JOB NUMBER	18W121		
MAR PROJ ENGR:	C. TORRES					CONTRACT NO.	00****		
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ASST SECRETARY:	A. SCARTON								
		REVISION		DATE	BY				

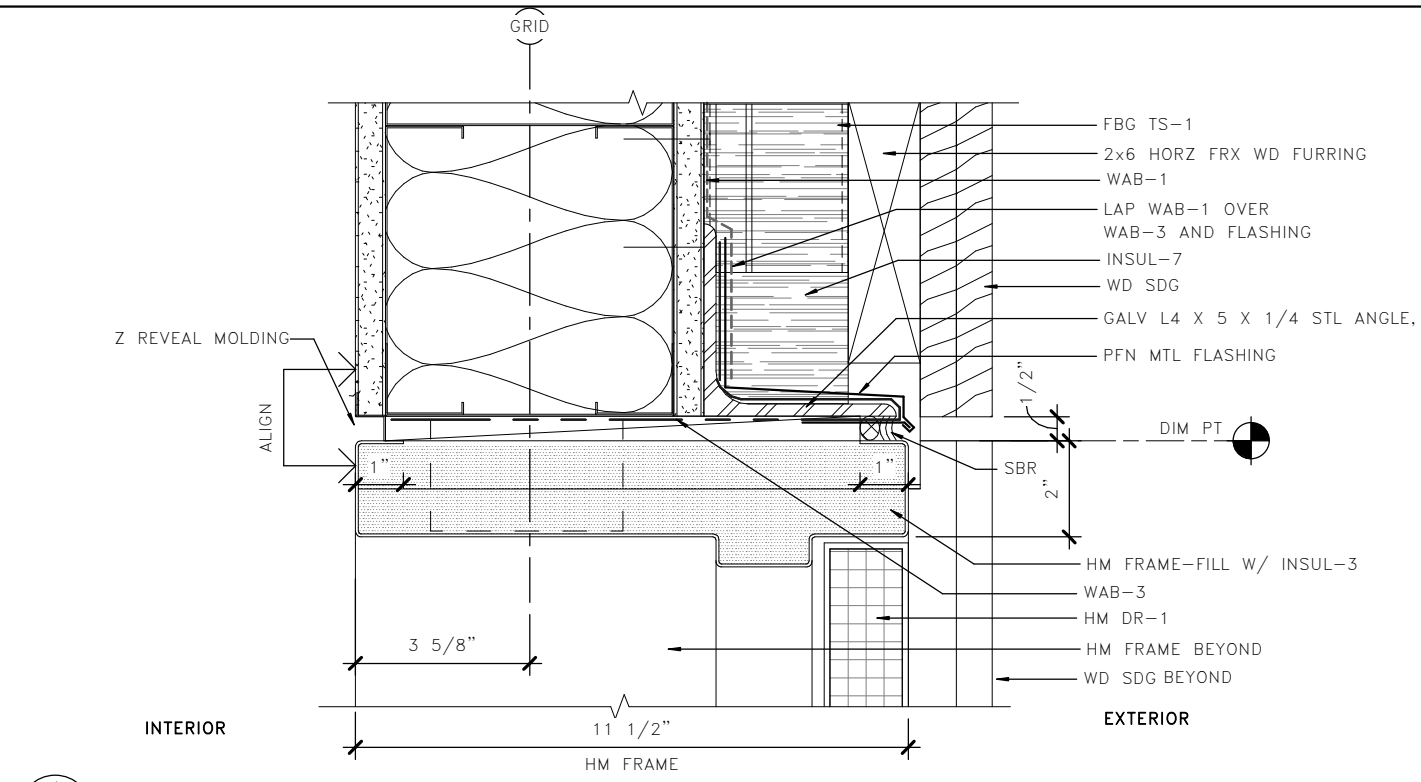


08/23/18
DATE

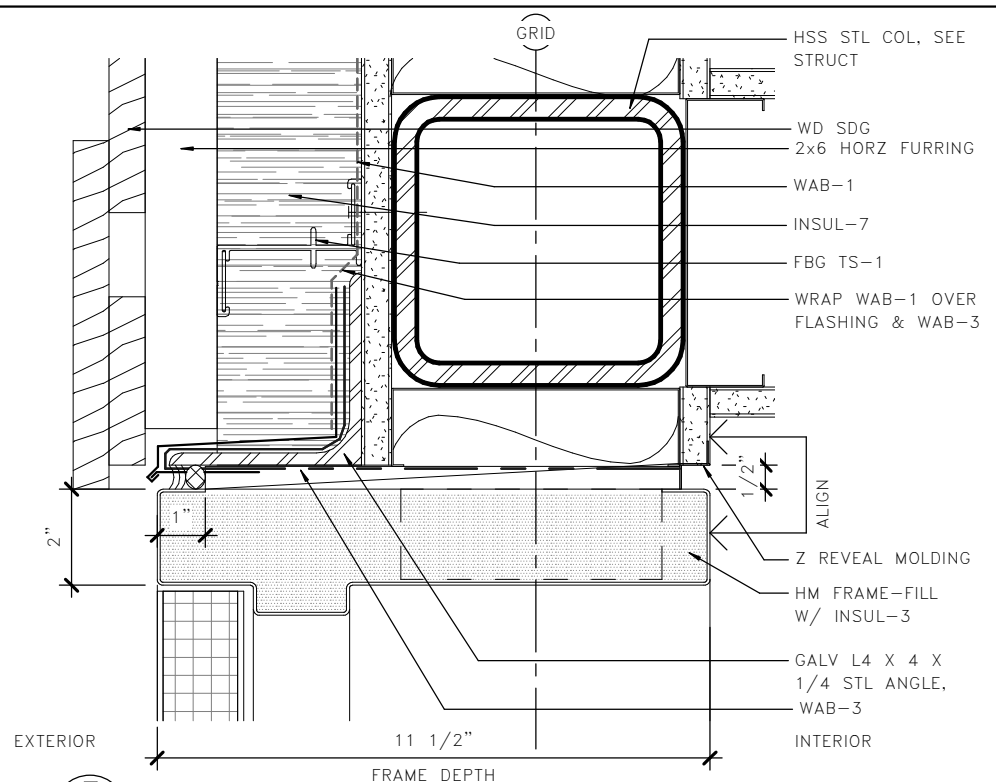


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
DOOR DETAILS

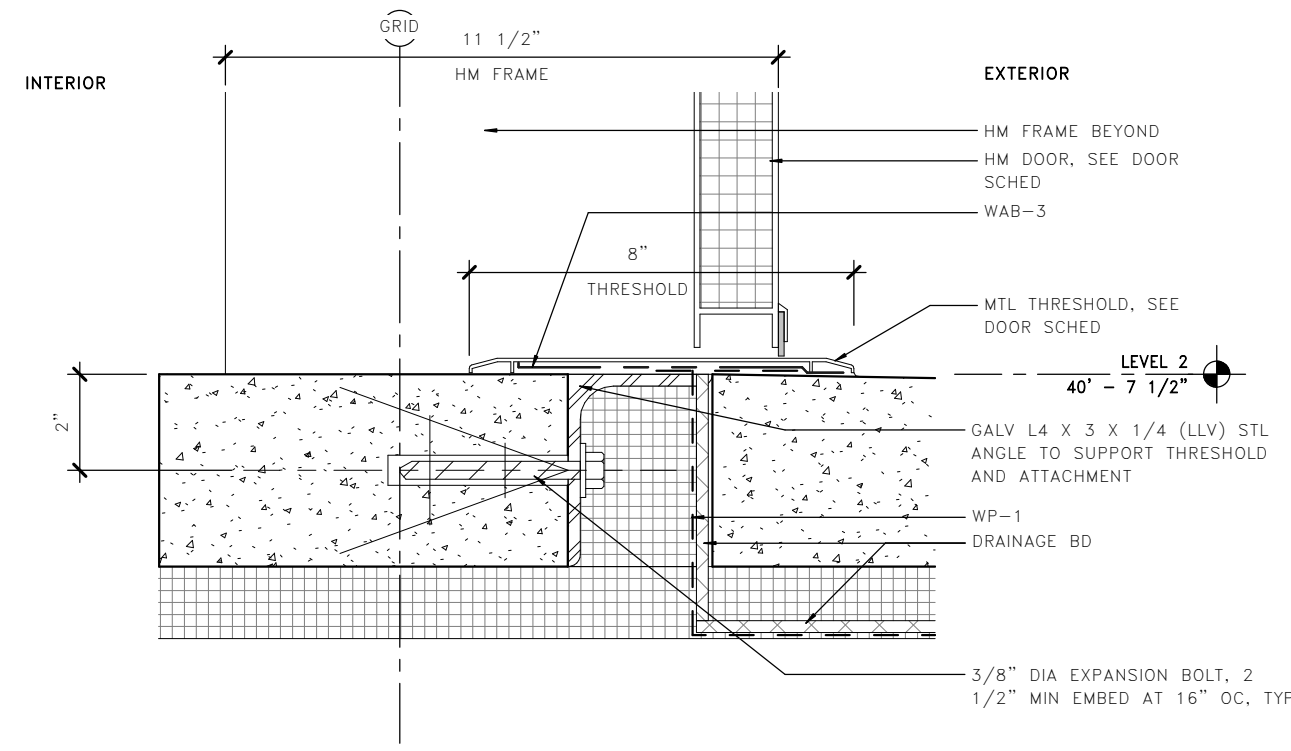
A08.11
SHEET
1066
OF
1521
SHEETS



1 DOOR HEAD @ LEVEL 2 EXTERIOR
A08.12



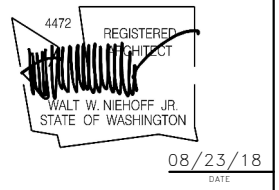
3 DOOR JAMB
A08.12



4 DOOR THRESHOLD @ LEVEL 2 EXT
A08.12

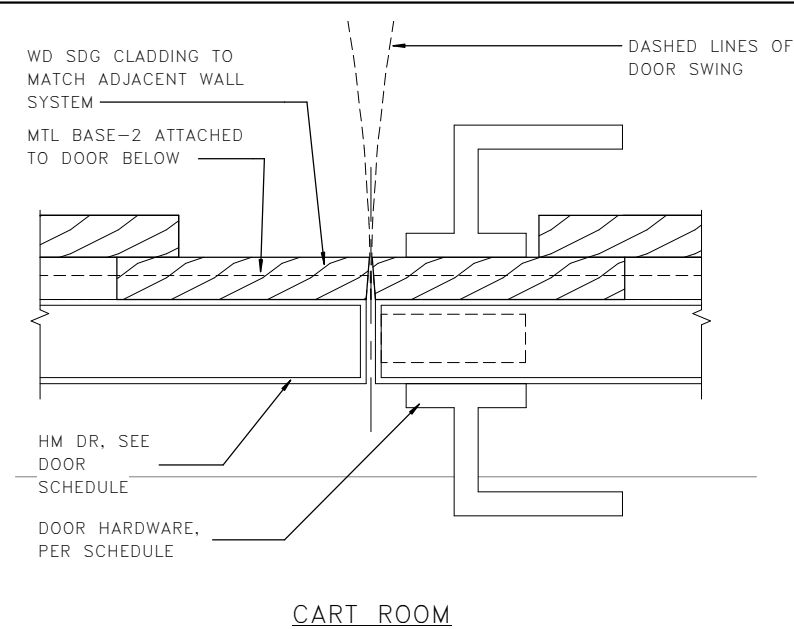


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PRINTED: 9/21/2018 4:51:57 PM		LAST PRINTED BY:		FED.AID PROJ.NO.		MUKILTEO FERRY TERMINAL (PHASE 2)		SHEET 1067									
SUBMITTAL DATE: 08/23/2018		MFISHER		WA-2017-007-00		FERRY TERMINAL CONSTRUCTION		OF 1521									
DESIGNED BY: H. FITZPATRICK		08/23/2018		REGION NO. 10 STATE WA		DOOR DETAILS		SHEETS									
ENTERED BY: G. BISHOP		08/23/2018		JOB NUMBER 18W121													
CHECKED BY: M. FISHER		08/23/2018		CONTRACT NO. 00****													
MAR PROJ ENGR: C. TORRES																	
DGN ENGR MNGR: N. MCINTOSH																	
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY									

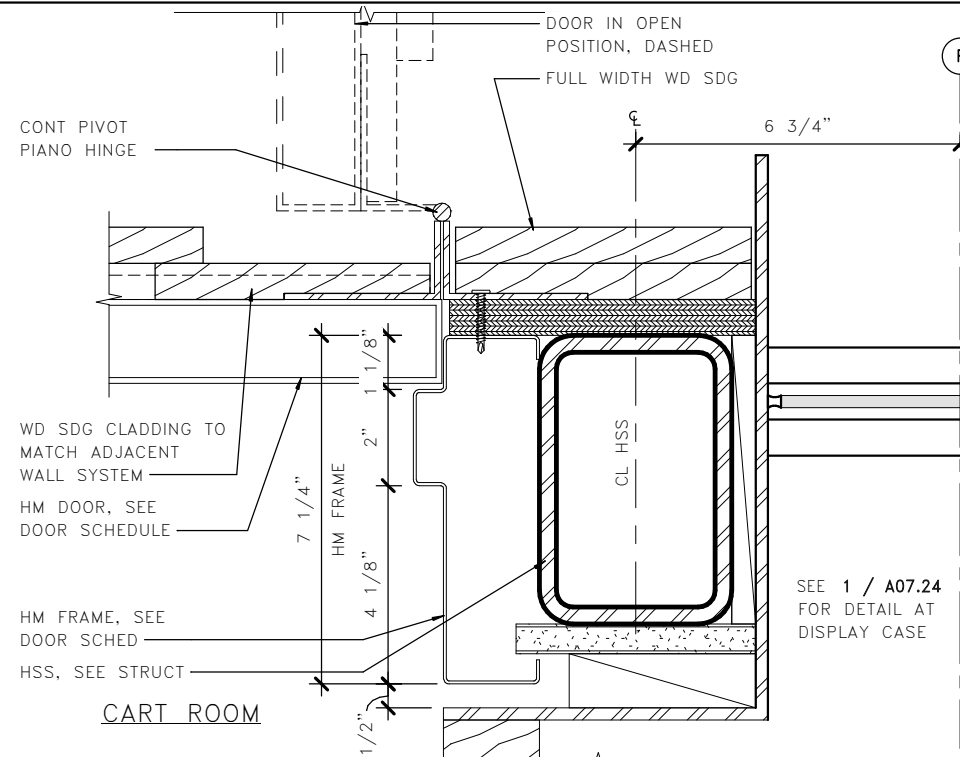


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
DOOR DETAILS

A08.12
SHEET
1067
OF
1521
SHEETS

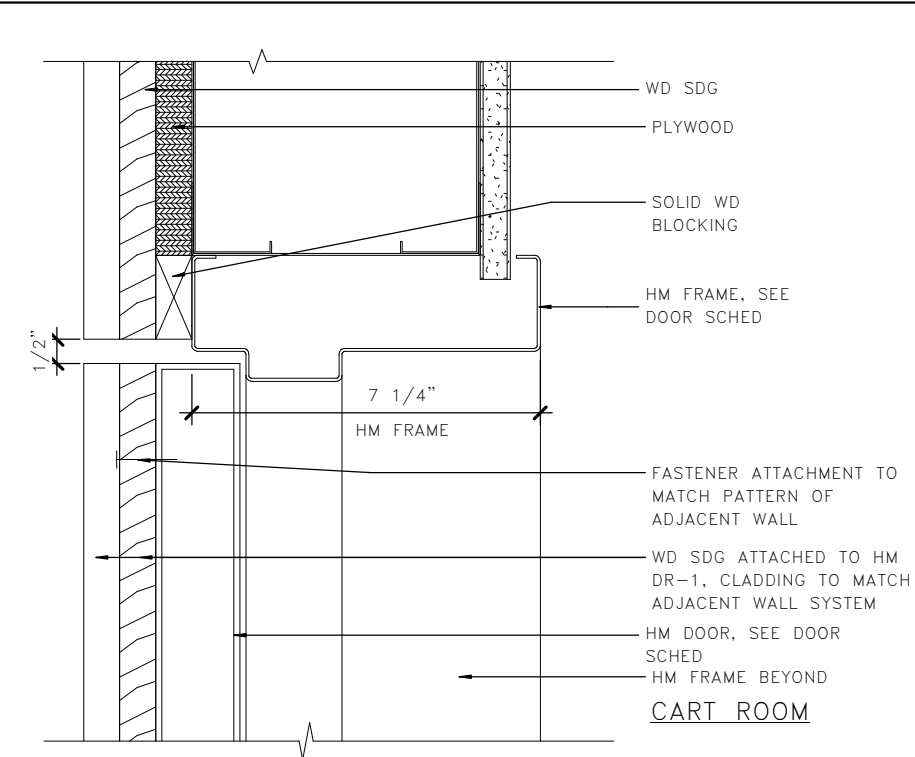


1 DOOR DETAIL – LATCH
A08.13

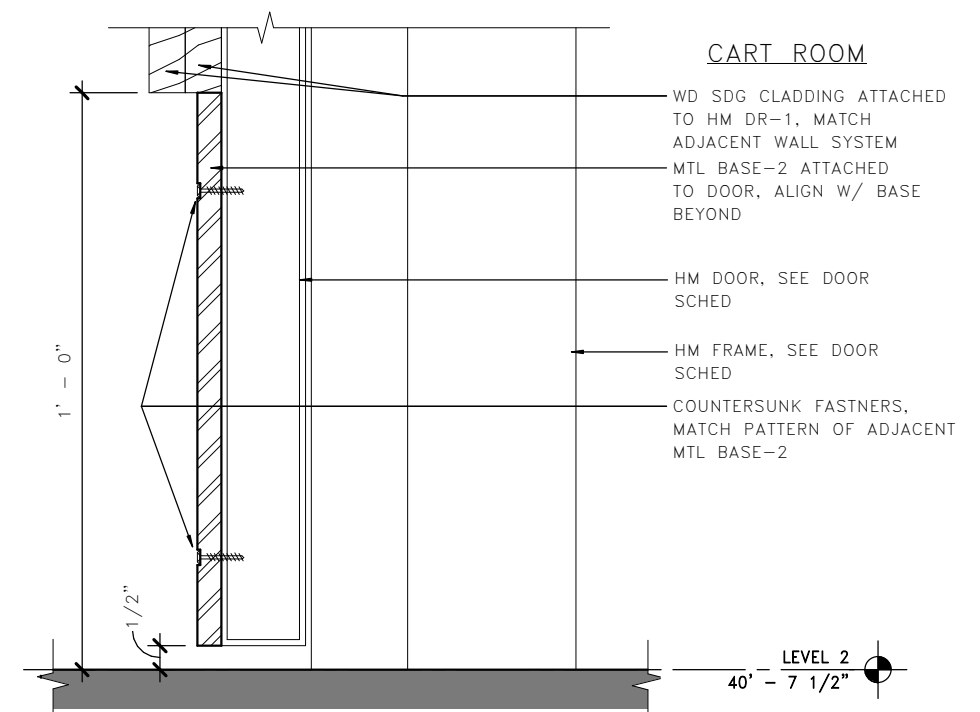


2 DOOR DETAIL – JAMB
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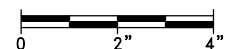
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3 DOOR DETAIL – HEAD
A08.13



6 DOOR DETAIL – SILL
A08.13



LMN

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ENTERED BY: G. BISHOP	08/23/2018				REGION NO. STATE
CHECKED BY: M. FISHER	08/23/2018				10 WA
MAR PROJ ENGR: C. TORRES					JOB NUMBER
DGN ENGR MNGR: N. MCINTOSH					18W121
ASST SECRETARY: A. SCARTON					CONTRACT NO.
					00****
	REVISION	DATE	BY		

DATE

4472 REGISTERED ARCHITECT

WALT W. NIEHOFF JR.

STATE OF WASHINGTON

08/23/18

DATE



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)

FERRY TERMINAL CONSTRUCTION

DOOR DETAILS

A08.13

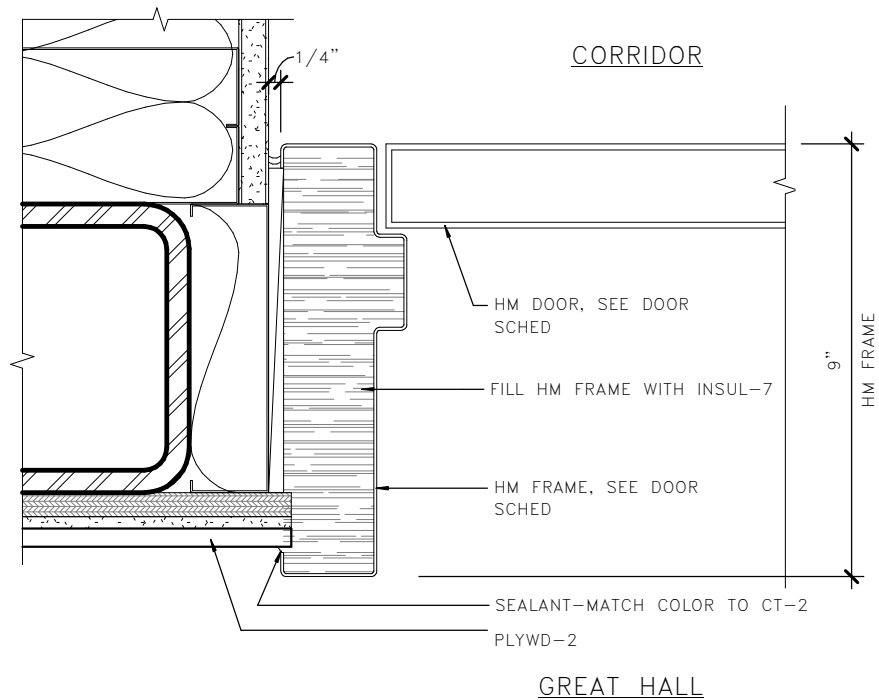
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1068

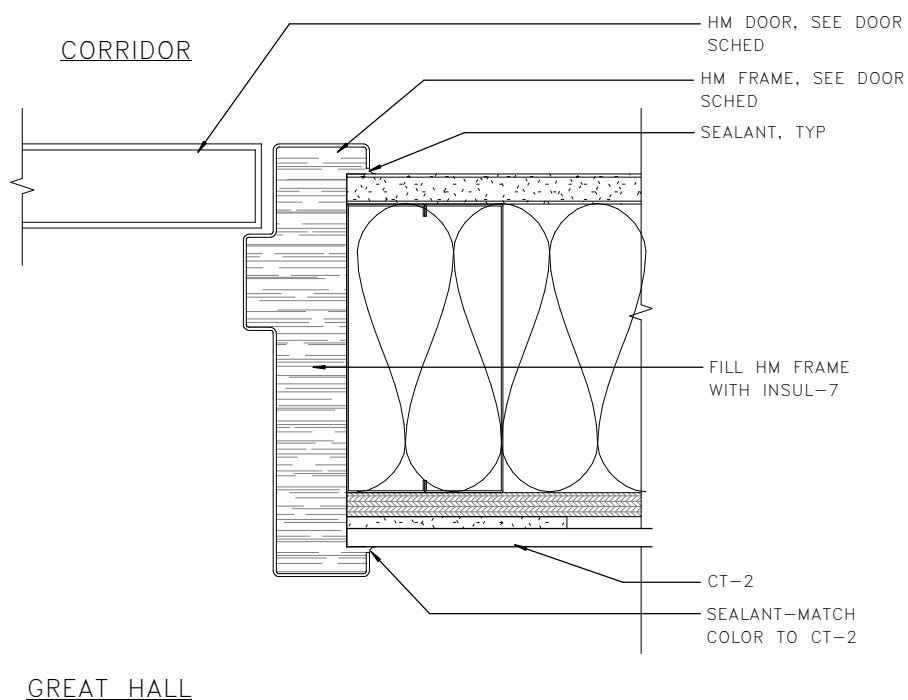
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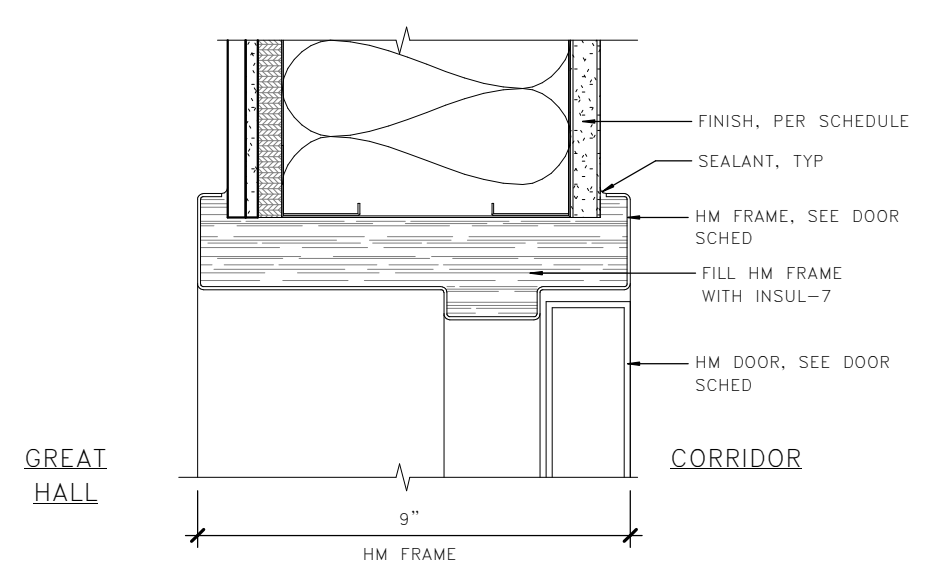
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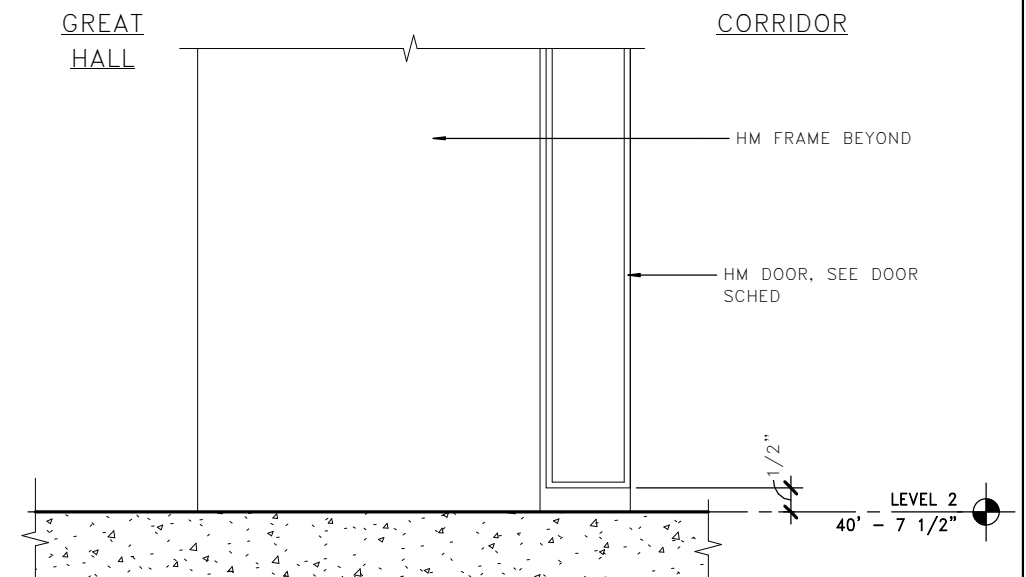
1 DOOR DETAIL JAMB
A08.14



2 DOOR DETAIL LATCH JAMB
A08.14

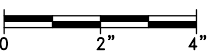


3 DOOR DETAIL @ HEAD
A08.14

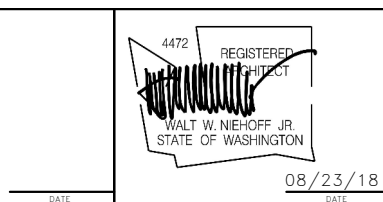


6 DOOR DETAIL SILL
A08.14

LMN

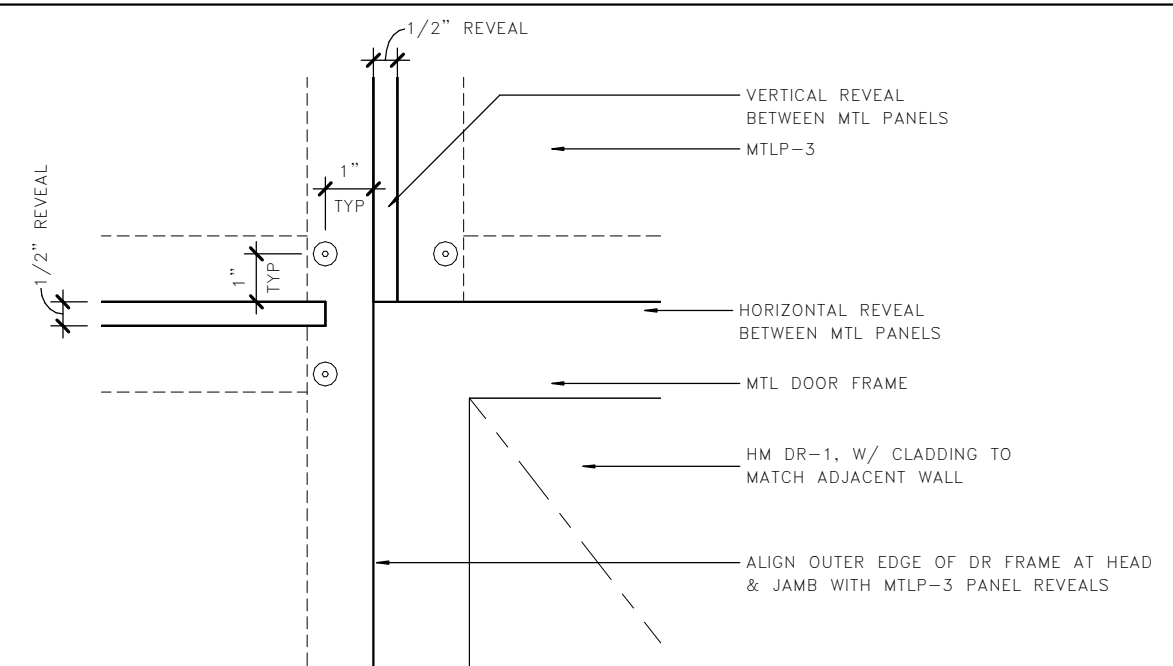


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ENTERED BY: G. BISHOP	08/23/2018				10 WA
CHECKED BY: M. FISHER	08/23/2018				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DGN ENGR MNGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00****
	REVISION	DATE	BY		



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

A08.14
SHEET 1069 OF 1521 SHEETS



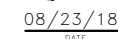
1 DOOR DETAIL – HEAD
A08.15



4 DOOR JAMB DETAIL @ MTLP 3
A08.15



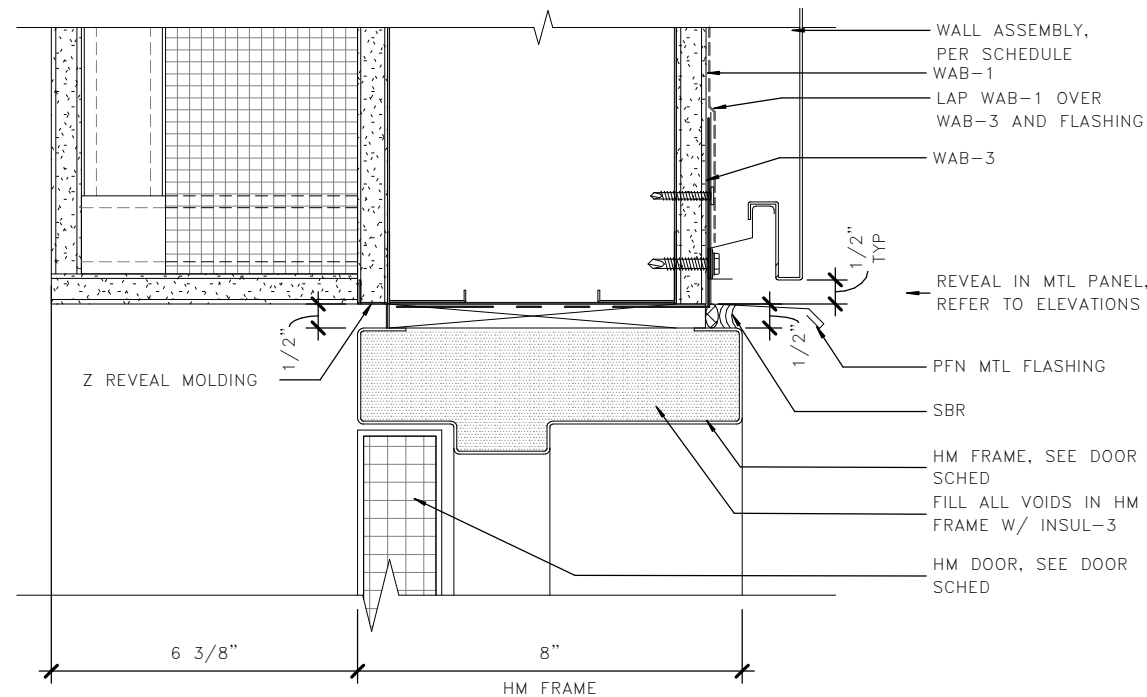
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WA-2017-007-00	
REGION NO.	STATE
10	WA
JOB NUMBER 18W121	
CONTRACT NO. 00****	



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

DOOR DETAILS

A08.15
SHEET
1070
OF
1521
SHEETS



ROOMS 131,
 132, 133 & 135
 (134 SIM.)

1 DOOR DETAIL - HEAD
 A08.16

VENDING

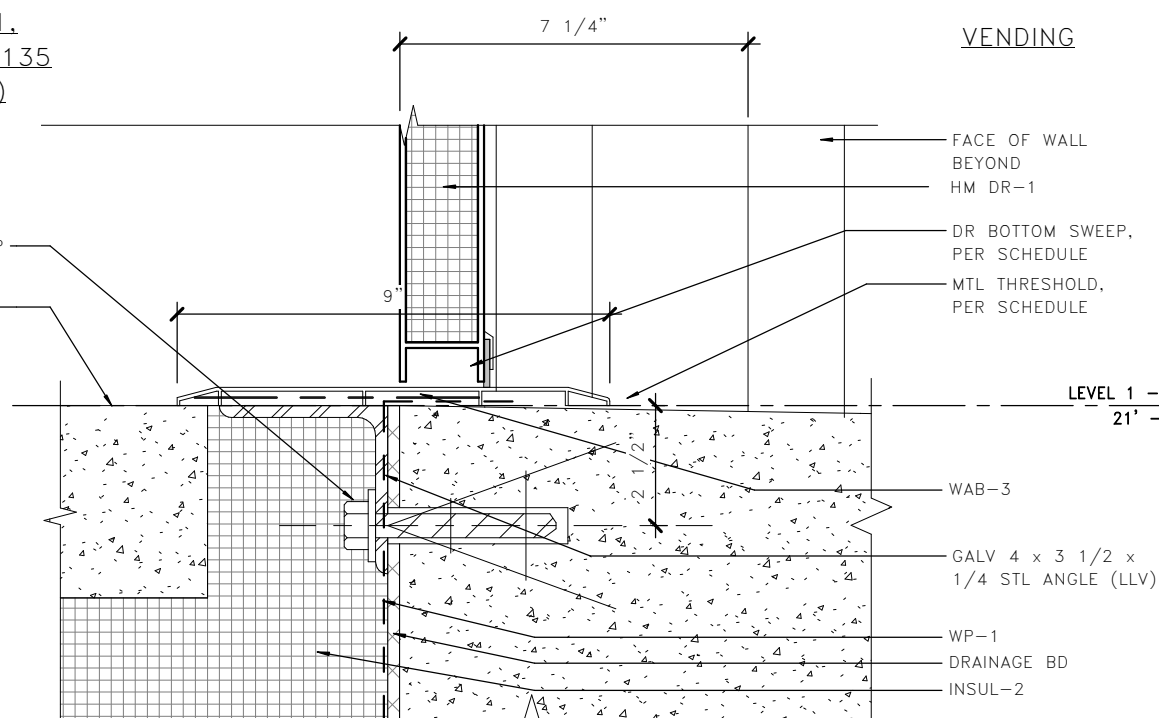
INTERIOR

ROOMS 131,
 132, 133 & 135
 (134 SIM.)

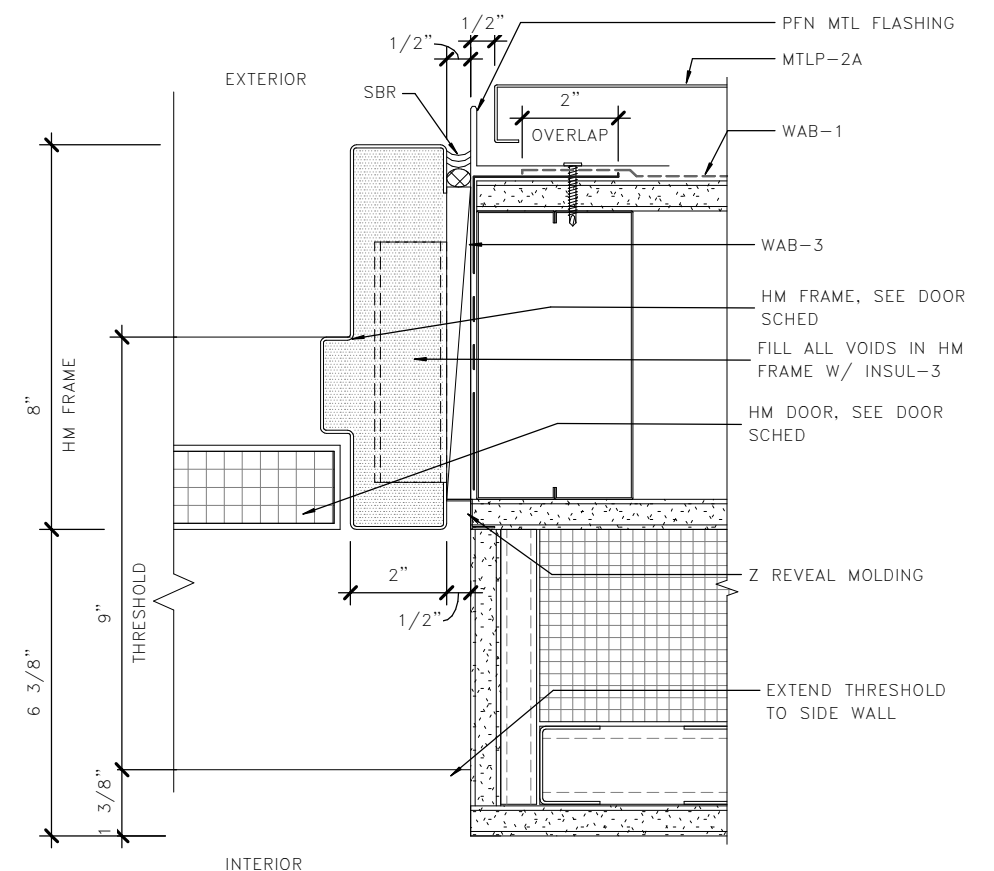
EXTERIOR

VENDING

1/2" DIA EXPANSION
 BOLT, 2 1/2" MIN
 EMBED AT 16" OC, TYP
 FINISH FLR, PER
 SCHEDULE

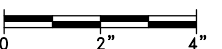


3 DOOR DETAIL - SILL
 A08.16



INTERIOR

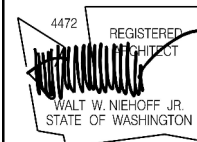
4 DOOR DETAIL - JAMB
 A08.16



LMN

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PRINTED: 9/21/2018 4:52:07 PM	LAST PRINTED BY: MFISHER				WA-2017-007-00	
SUBMITTAL DATE: 08/23/2018					REGION NO. 10 STATE WA	
DESIGNED BY: H. FITZPATRICK	08/23/2018				JOB NUMBER 18W121	
ENTERED BY: G. BISHOP	08/23/2018				CONTRACT NO. 00****	
CHECKED BY: M. FISHER	08/23/2018					
MAR PROJ ENGR: C. TORRES						
DGN ENGR MNGR: N. MCINTOSH						
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		

DATE

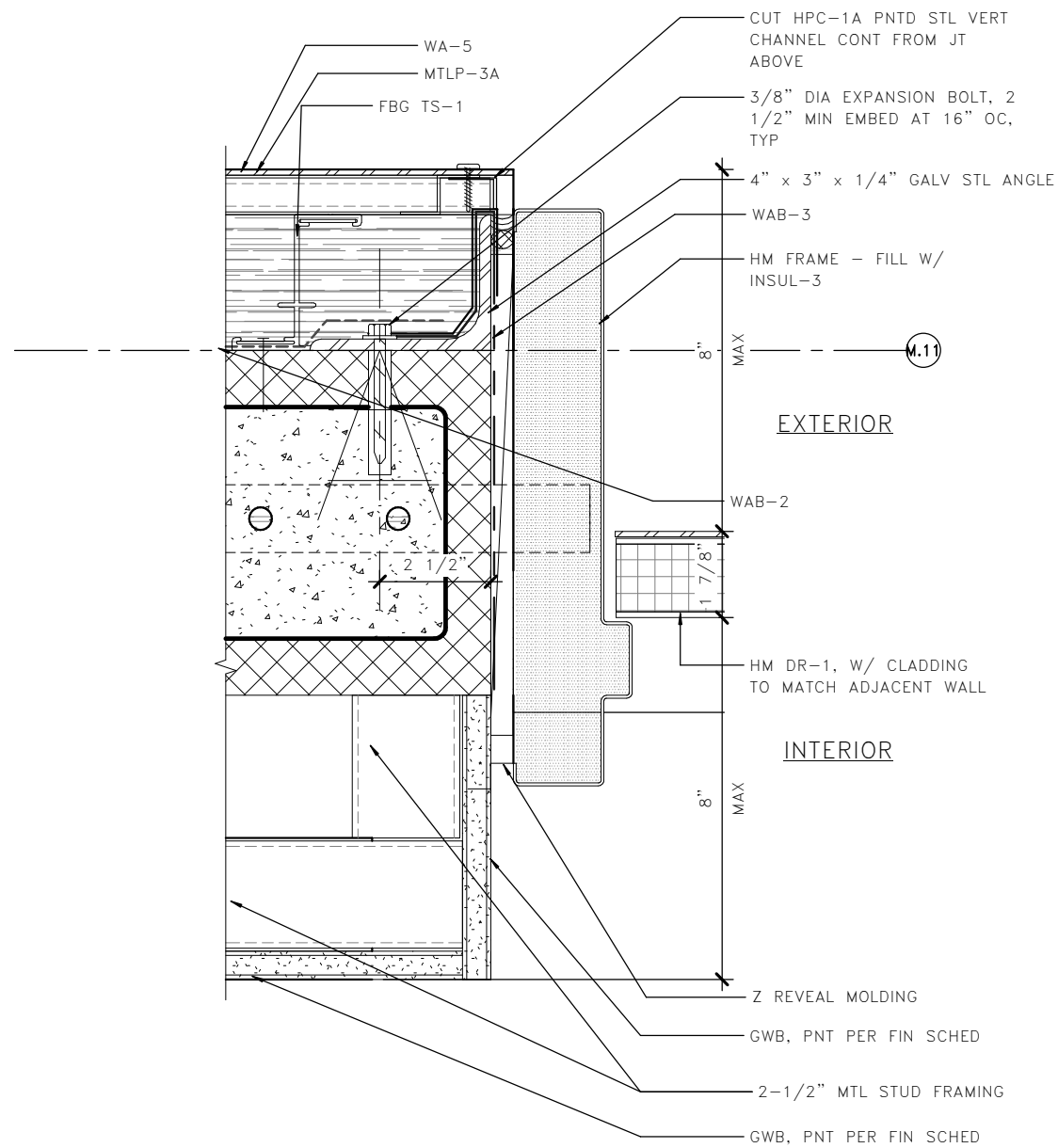


08/23/18
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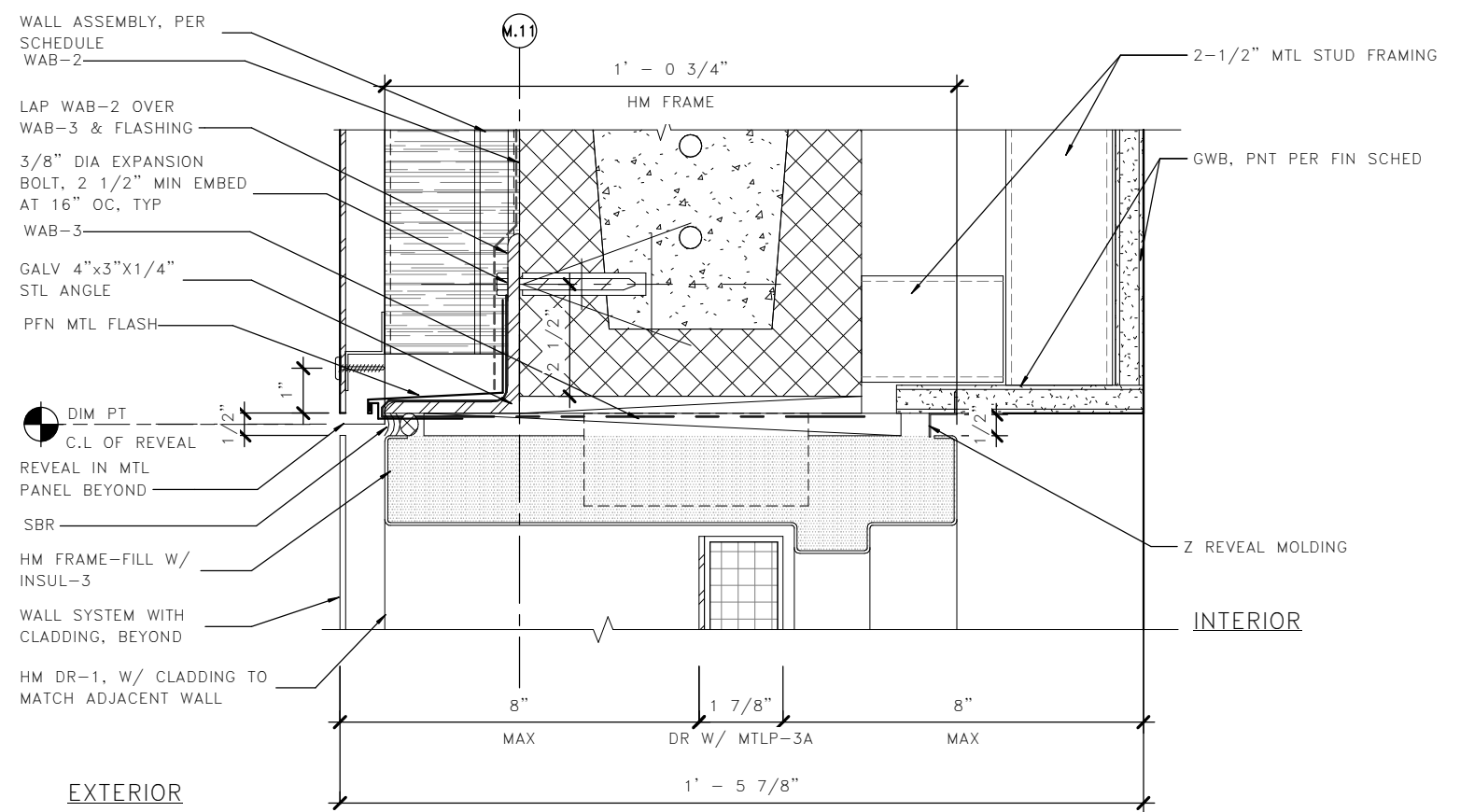


SR 525
 MUKILTEO FERRY TERMINAL (PHASE 2)
 FERRY TERMINAL CONSTRUCTION
 DOOR DETAILS

A08.16
 SHEET
 1071
 OF
 1521
 SHEETS



1 DOOR 122 – JAMB
A08.17



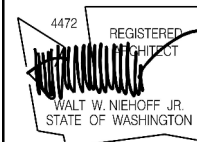
2 DOOR 122 – HEAD
A08.17

LMN



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ENTERED BY: G. BISHOP	08/23/2018				10 WA
CHECKED BY: M. FISHER	08/23/2018				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DGN ENGR MNGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00****
	REVISION	DATE	BY		

DATE

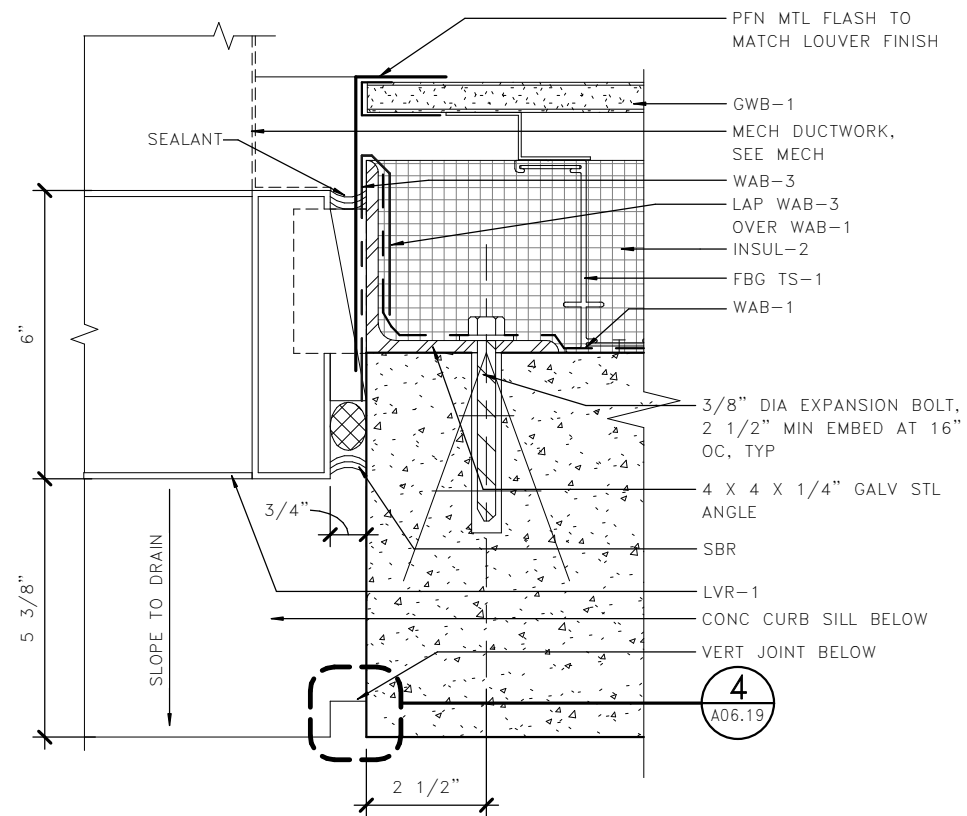


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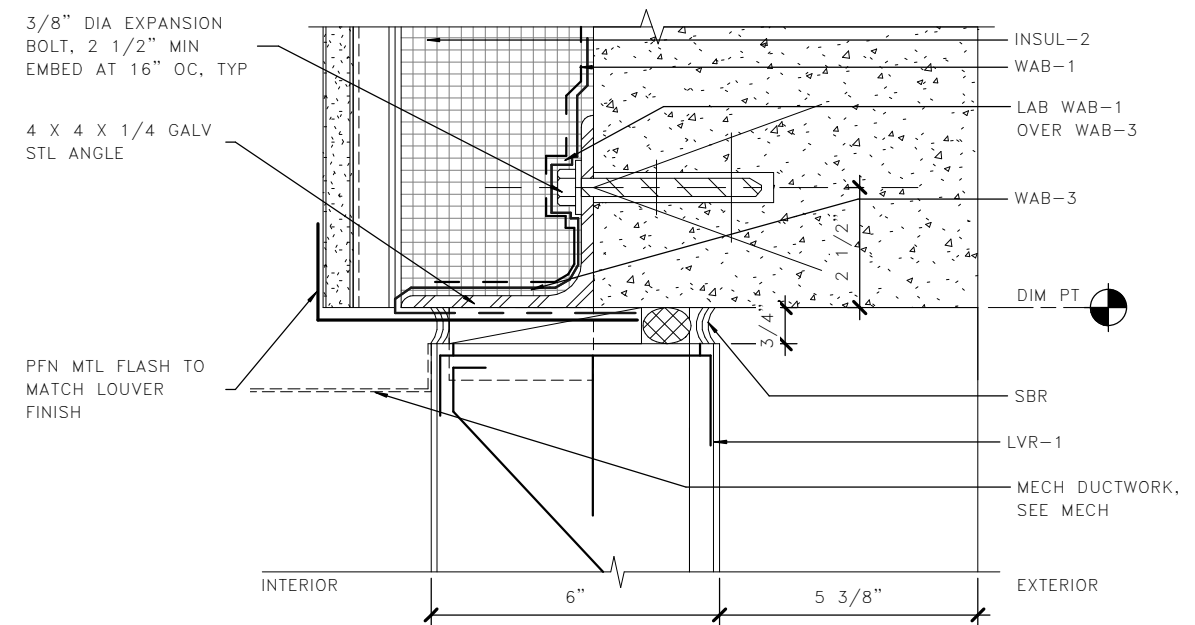


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
DOOR DETAILS

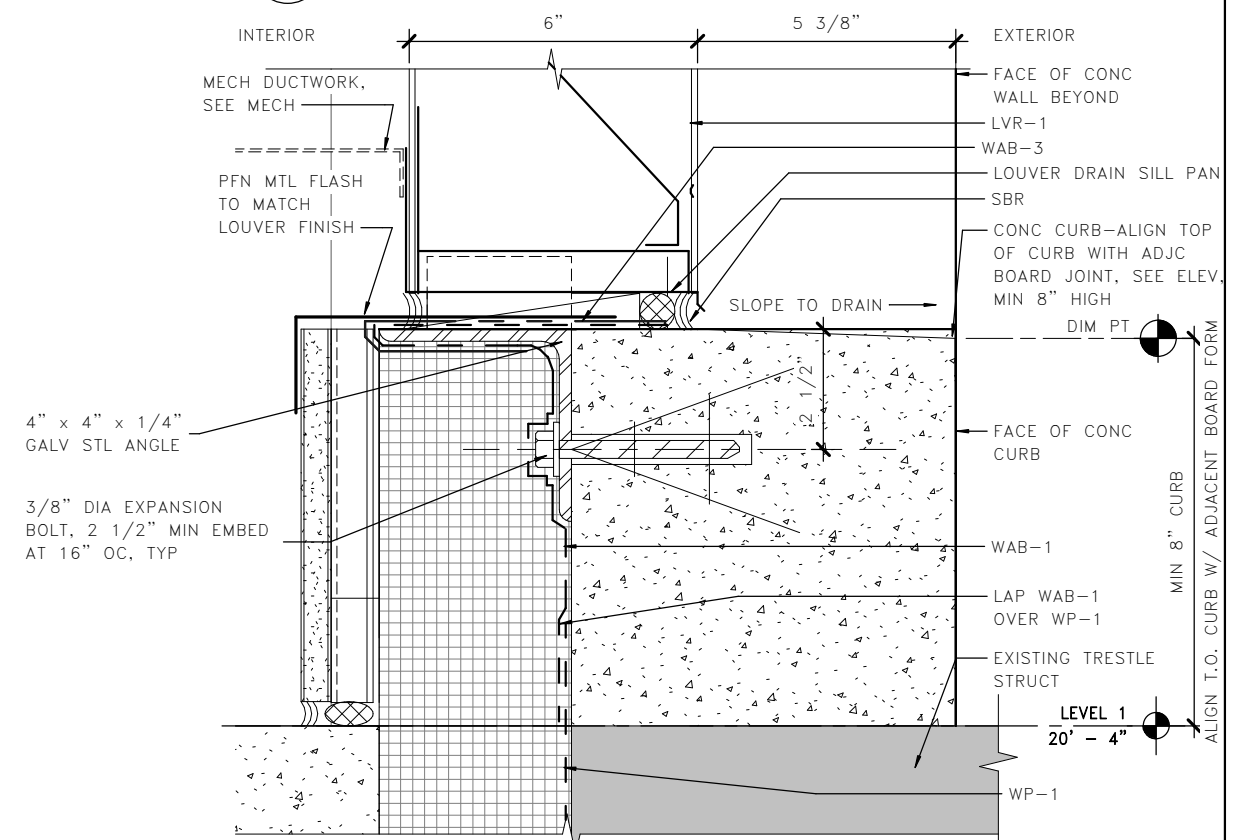
A08.17
SHEET
1072
OF
1521
SHEETS



2 LOUVER JAMB
A08.20



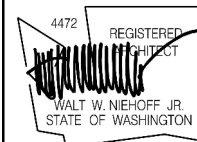
3 LOUVER HEAD
A08.20



6 LOUVER SILL
A08.20

LMN

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DESIGNED BY: H. FITZPATRICK	08/23/2018				JOB NUMBER 18W121	
ENTERED BY: G. BISHOP	08/23/2018				CONTRACT NO. 00****	
CHECKED BY: M. FISHER	08/23/2018					
MAR PROJ ENGR: C. TORRES						
DGN ENGR MNGR: N. MCINTOSH						
ASST SECRETARY: A. SCARTON						
	REVISION	DATE	BY			

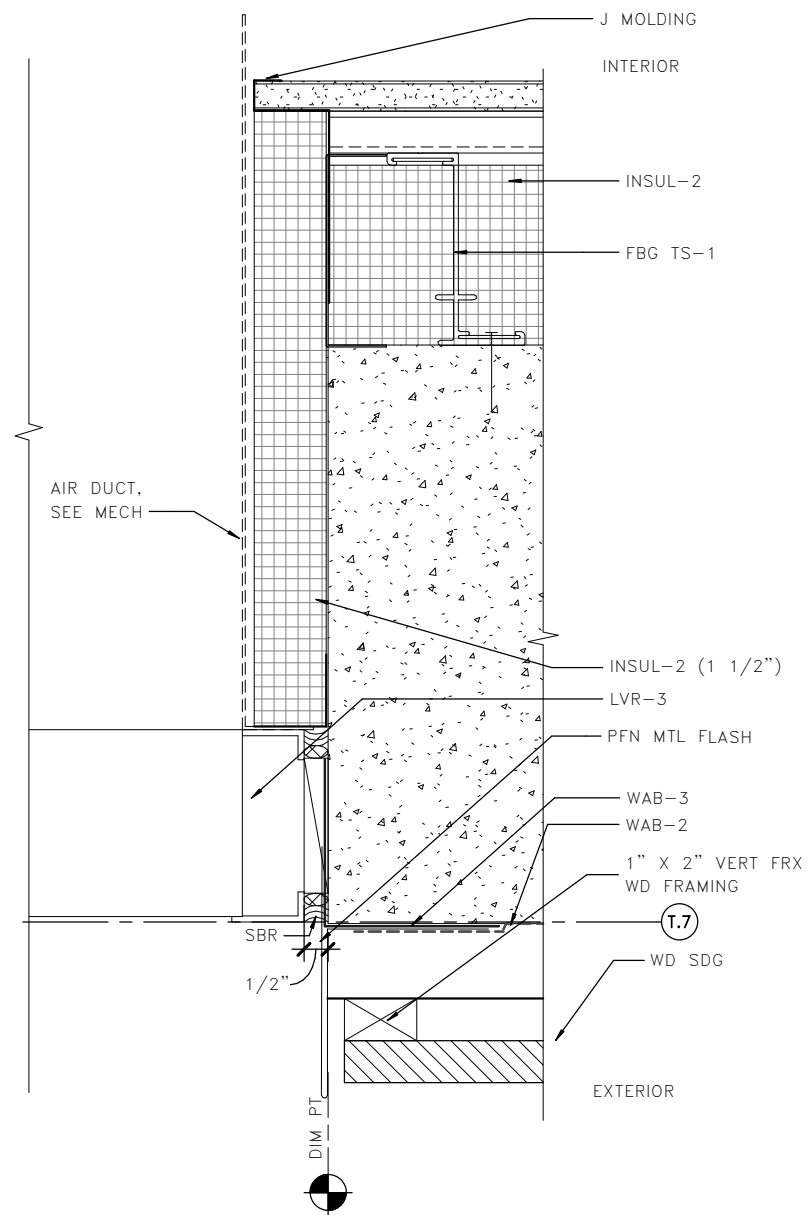


08/23/18

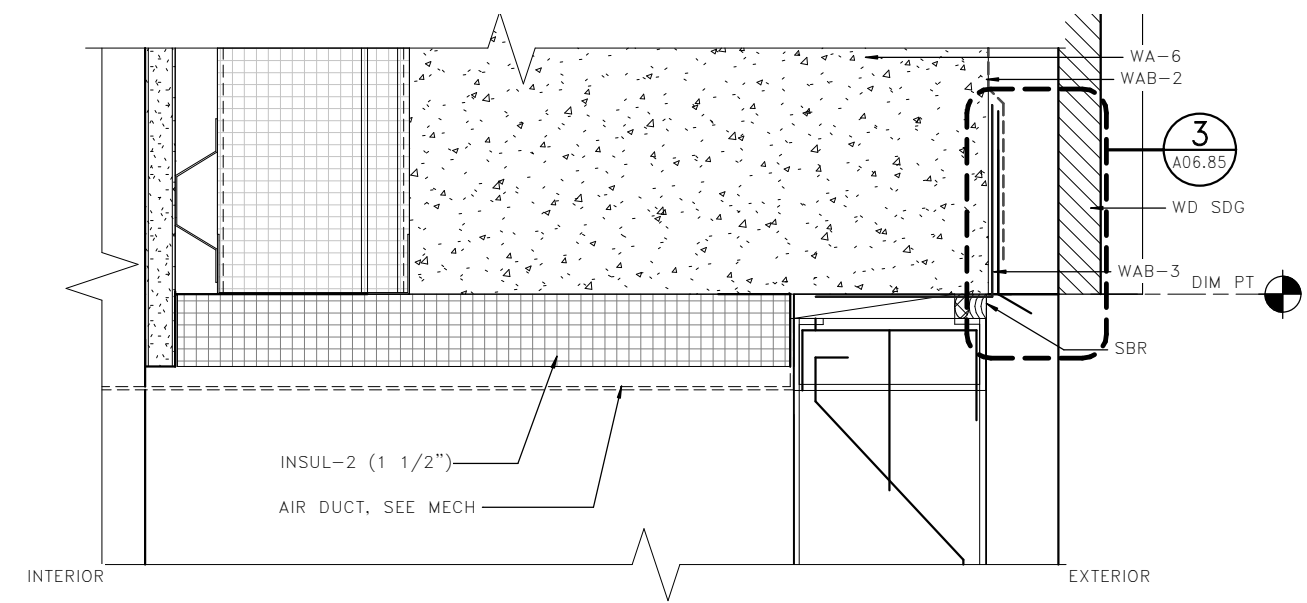


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
LOUVER DETAILS

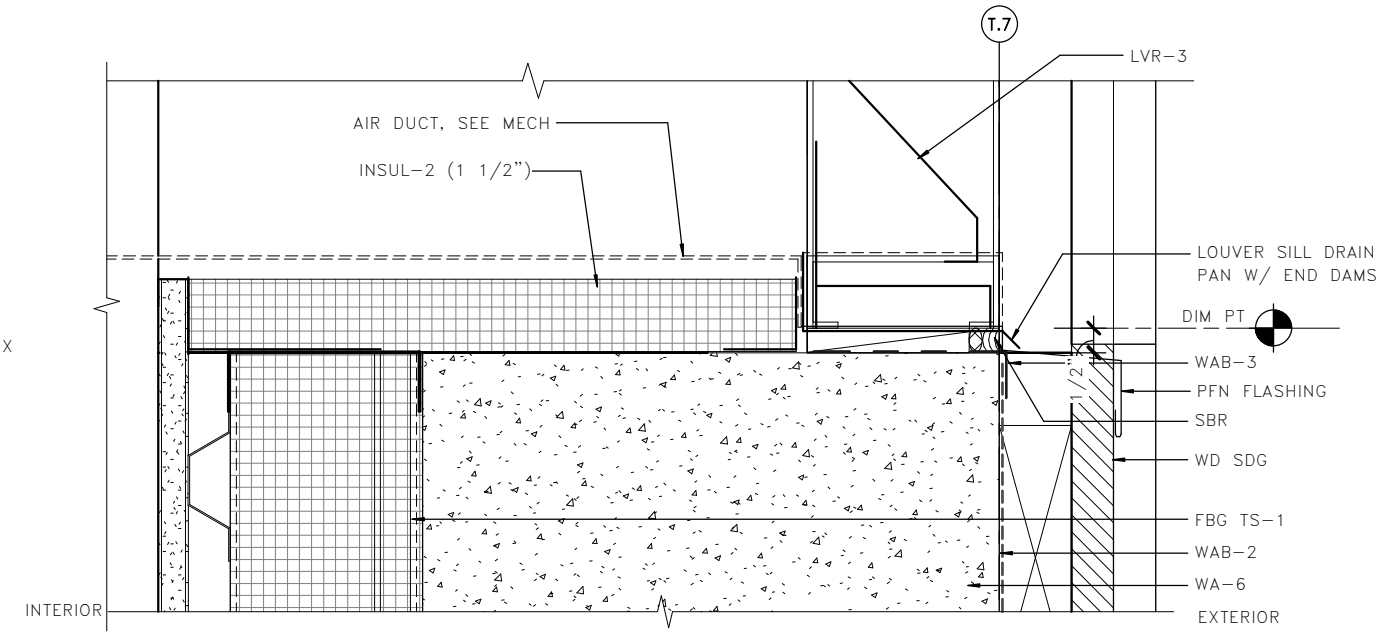
A08.20
SHEET
1073
OF
1521
SHEETS



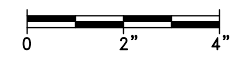
5 LOUVER JAMB
A08.21
0 2 4
3" = 1'-0"



3 LOUVER HEAD @ WD SDG
A08.21
0 2 4
3" = 1'-0"



6 LOUVER SILL @ WD SDG
A08.21
0 2 4
3" = 1'-0"



FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\LMN\mft-CENTRAL_90%.rvt									
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SUBMITTAL DATE:	08/23/2018	MFISHER				PROJ.NO.			
DESIGNED BY:	H. FITZPATRICK	08/23/2018				WA-2017-007-00			
ENTERED BY:	G. BISHOP	08/23/2018				REGION NO.	STATE		
CHECKED BY:	M. FISHER	08/23/2018				10	WA		
MAR PROJ ENGR:	C. TORRES					JOB NUMBER			
DGN ENGR MNGR:	N. MCINTOSH					18W121			
ASST SECRETARY:	A. SCARTON					CONTRACT NO.			
						00****			
REVISION			DATE	BY					

DATE: 08/23/18

Washington State
Department of Transportation
WASHINGTON STATE FERRIES

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

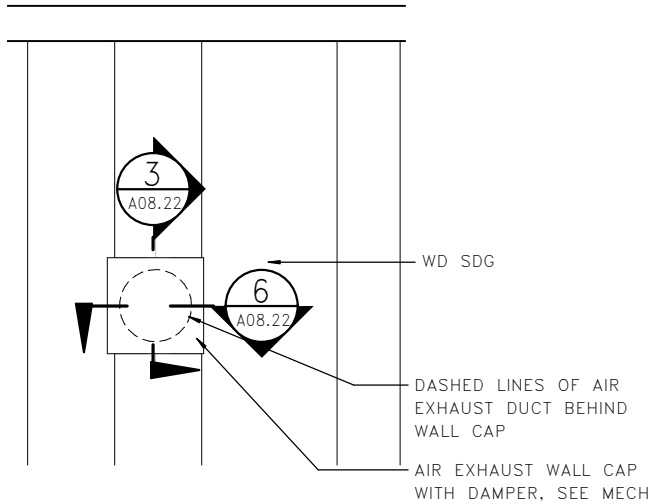
LOUVER DETAILS

A08.21

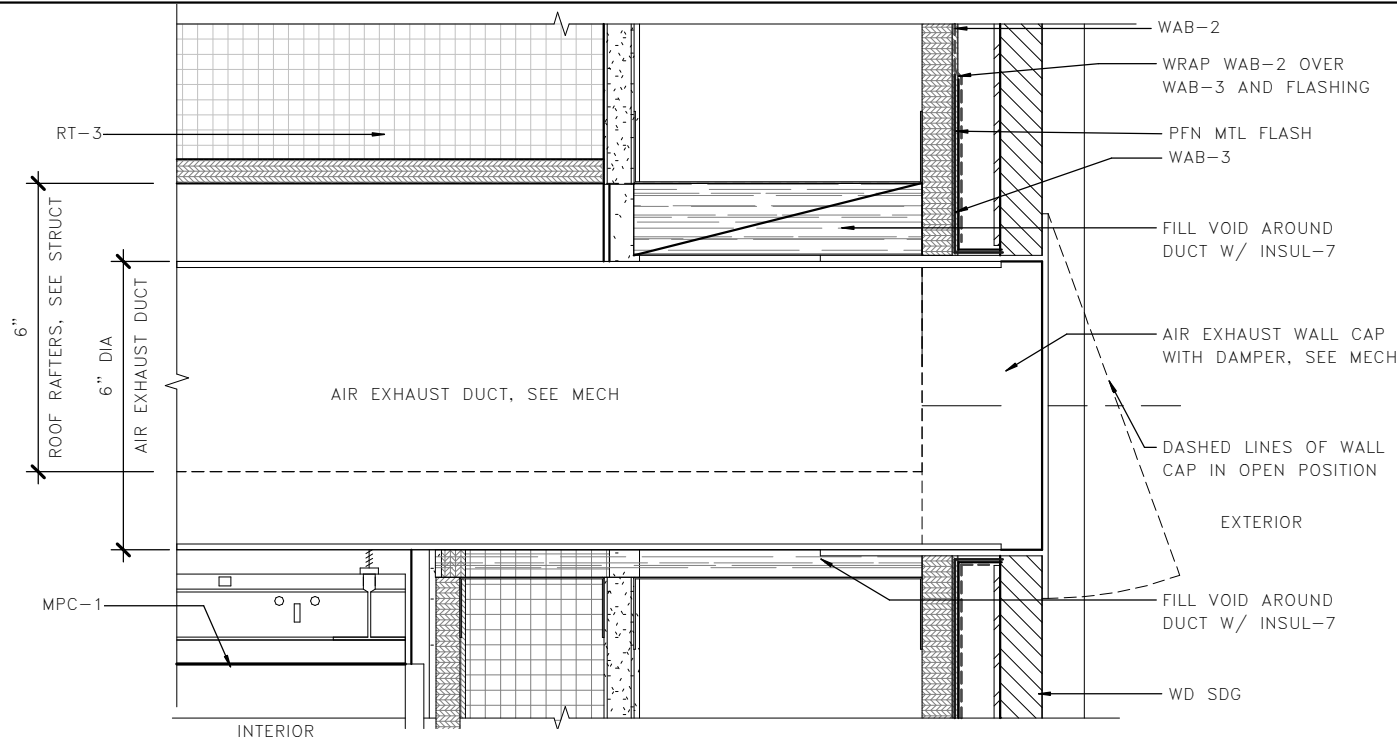
SHEET
1074

OF
1521

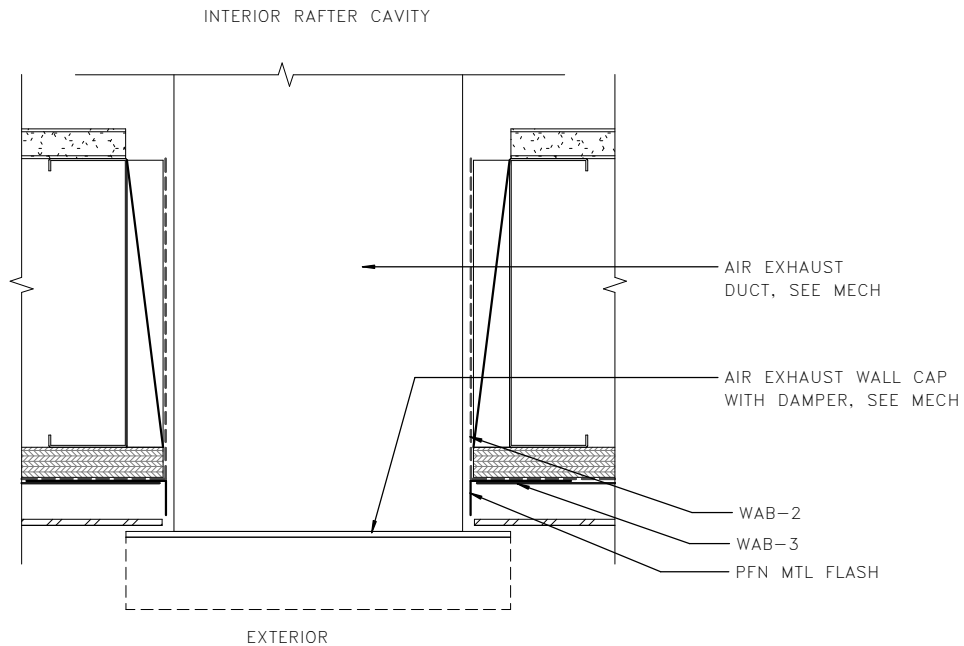
SHEETS



1 EXHAUST WALL CAP ELEVATION
A08.22
0 8" 16"
3/4" = 1'-0"



3 RESTROOM EXHAUST SECTION DETAIL
A08.22
0 2" 4"
3" = 1'-0"

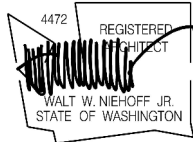


6 RESTROOM EXHAUST PLAN DETAIL
A08.22
0 2" 4"
3" = 1'-0"

LMN

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MAR PROJ ENGR: C. TORRES					18W121
DGN ENGR MNGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00****
	REVISION	DATE	BY		

DATE



08/23/18
DATE



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

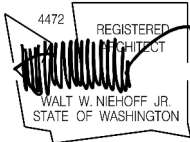
A08.22
SHEET
1075
OF
1521
SHEETS

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING	REMARKS
				NORTH	EAST	SOUTH	WEST		
LEVEL 1									
101	SPRINKLER	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
102	ELEV EQUIP 1	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
103	MECH	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
104	ELEC	RSF-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
105	BREAKROOM	RSF-1	RB-1	PNT-1/PLAM-1/SSM-2	PNT-1	PNT-1/PLAM-1/SSM-2	PNT-1/MTL LKR-1	MPC-1	SEE ELEVATIONS
106	LOCKERS	RSF-1	RB-1	PNT-1/PLAM-1/SSM-2	PNT-1	PNT-1	PNT-1/MTL LKR-1	MPC-1	SEE ELEVATIONS
107	TOILET	CTF-2	CTB-1	CT-1	CT-1	CT-1	CT-1	PNT-4	EPOXY PAINT
107B	SHOWER	CTF-2	CTB-1	CT-1	CT-1	CT-1	CT-1	PNT-4	EPOXY PAINT
108	VEHICLE ATTENDANT	RSF-1	RB-1	PNT-1/PLAM-1/SSM-2	PNT-1	PNT-1/PLAM-1/SSM-2	PNT-1/MTL LKR-1	APC-1	SEE ELEVATIONS
109	IT	RSF-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
110	CORRIDOR	RSF-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	APC-1	
111	TOILET	POL CONC FIN-1	COVE PROFILE TRIM	CT-1	CT-1	CT-1	CT-1	PNT-4	EPOXY PAINT
111A	LAV	POL CONC FIN-1	COVE PROFILE TRIM	CT-1	CT-1	CT-1	CT-1	PNT-4	EPOXY PAINT
112	SELLER SAFE	CPTT-1	RB-1	PNT-1	PNT-1/PLAM-2/PLAM-3	PNT-1	PNT-1	APC-1	SEE ELEVATIONS
113	SUPERVISOR’S ACCOUNTING ROOM	CPTT-1	RB-1	PNT-1/PLAM-2/PLAM-3	PNT-1	PNT-1	PNT-1/PLAM-2/PLAM-3	APC-1	SEE ELEVATIONS
114	WSP	CPTT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	APC-1	
115	CONFERENCE	CPTT-1	RB-1	PNT-1/ MKR BD-1	PNT-3	PNT-1	PNT-1	APC-1	
116	CORRIDOR	CPTT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	APC-1	
117	SUPERVISOR	CPTT-1	RB-1	PNT-1/PNT-3/HLB-1/PLAM-2/PLAM-3	PNT-1/HLB-1/PLAM-2/PLAM-3	PNT-1/PNT-3/HLB-1/PLAM-2/PLAM-3	PNT-3	APC-1	SEE ELEVATIONS
118	VESSEL STOR	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
LEVEL 1 – MB									
120	MECH EQUIP	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
121	VENDOR EQUIPMENT ROOM	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
122	ELEV EQUIP 2	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
123	MAIN EQUIPMENT ROOM	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
124	ELECTRICAL	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
125	MAINT STORAGE	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
126	COVERED CART & BULL STORAGE	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	OTS	
127	TRANSFORMER	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	OTS	
128	MECHANICAL	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	OTS	
129	GENERATOR	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	OTS	
130	VENDING	CONC-S-2	–	ACIP-1	MTLP-2	MTLP-2	OPEN/MTLP-3B	WCP-1	
131	MEN	POL CONC FIN-1	COVE PROFILE TRIM	CT-1/PNT-1	CT-1	CT-1/PNT-1	CT-1/PNT-1	WCP-1	CLERESTORY ABOVE
132	CHASE	CONC-S-2	–	–	PNT-1	–	PNT-1	WCP-1	CLERESTORY ABOVE
133	WOMEN	POL CONC FIN-1	COVE PROFILE TRIM	CT-1/PNT-1	CT-1	CT-1/PNT-1	CT-1/PNT-1	WCP-1	CLERESTORY ABOVE
134	JANITOR	CONC-S-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	WCP-1	CLERESTORY ABOVE
135	WATER ENTRY	CONC-S-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	WCP-1	CLERESTORY ABOVE

LMN

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SUBMITTAL DATE:	MFISHER				WA-2017-007-00
DESIGNED BY: H. FITZPATRICK	08/23/2018				REGION NO. STATE
ENTERED BY: G. BISHOP	08/23/2018				10 WA
CHECKED BY: M. FISHER	08/23/2018				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DGN ENGR MNGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	00****

DATE



DATE



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

TERMINAL – FINISH SCHEDULE

A08.30

SHEET
1076
OF
1521
SHEETS

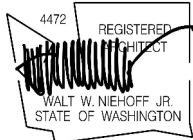

TERMINAL – LEVEL 2

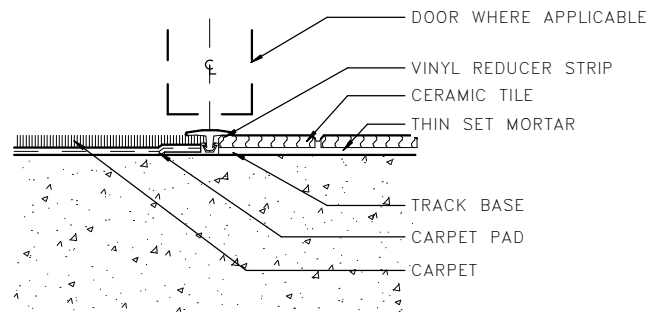
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING	REMARKS
				NORTH	EAST	SOUTH	WEST		
LEVEL 2									
200	PROMENADE	EXTERIOR	—	—	—	—	—	—	
200SE	STAIR 2	PCT-1, PCCL-1	—	OPEN	OPEN	OPEN	OPEN	OTS	
200SN	STAIR 3	PCT-1, PCCL-1	—	OPEN	OPEN	OPEN	OPEN	OTS	
200SW	STAIR 1	PCT-1, PCCL-1	—	OPEN	OPEN	OPEN	OPEN	OTS	
201	GREAT HALL	POL CONC FIN-1	MTL BASE-2	CW-1/RWD-1/WD SDG	WD SDG-1/TKT WDW-1	CW-1/RWD-1/WD SDG-1	WD SDG-1/CT-2	OTS	SEE ELEVATIONS
202	INVERTERS	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
203	CORRIDOR	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
204	JANITOR CLOSET	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
205	MEN RESTROOM	POL CONC FIN-1	COVE PROFILE TRIM	CT-1	CT-1	CT-1	CT-1	SPCL CLG-1/LMPC-1	
206	WOMEN RESTROOM	POL CONC FIN-1	COVE PROFILE TRIM	CT-1	CT-1	CT-1	CT-1	SPCL CLG-1/LMPC-1	
207	CART	POL CONC FIN-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
208	STORAGE	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
209	VENDING	POL CONC FIN-1	MTL BASE-2/RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
210	TICKET SALES	RSF-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1/FRP-1/SSM-2/TKT WDW-1	MPC-1	SEE ELEVATIONS
211	LOST FOUND	RSF-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	MPC-1	
212	ELEC.	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
213	CORRIDOR	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
214	STORAGE	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	

TOLL PLAZA

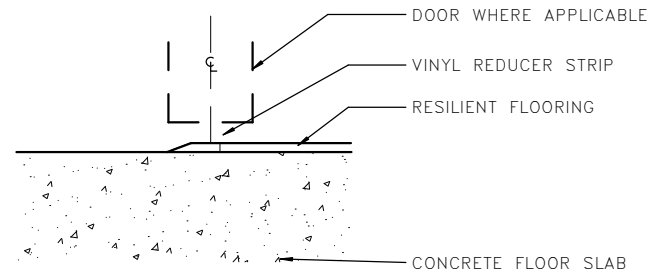
ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS				CEILING	REMARKS
				NORTH	EAST	SOUTH	WEST		
LEVEL 1									
150	EQUIPMENT ROOM	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
151	ELEC	CONC-S-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OTS	
152	STO	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	WSF DESIGN
153	TOLL BOOTH 1	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	WSF DESIGN
154	TOLL BOOTH 2	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	WSF DESIGN
155	TOLL BOOTH 3	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	SEE AX03.01	WSF DESIGN
156	TOLL BOOTH 4 (ADA)	SEE AX03.01	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	MPC-1	SHD-1 @ NORTH SFWS
157	TOILET	POL CONC FIN-1	COVE PROFILE TRIM	CT-1	CT-1	CT-1	CT-1	MPC-1	

LMN

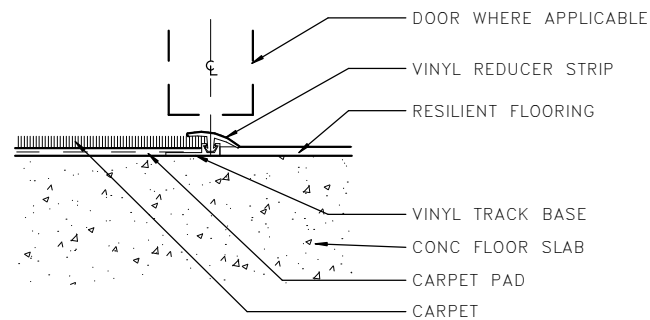
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DESIGNED BY: H. FITZPATRICK	08/23/2018						WA-2017-007-00		REGION NO. 10		STATE WA		OF 1521		
ENTERED BY: G. BISHOP	08/23/2018								JOB NUMBER 18W121				1521		
CHECKED BY: M. FISHER	08/23/2018								CONTRACT NO. 00****				SHEETS		
MAR PROJ ENGR: C. TORRES															
DGN ENGR MNGR: N. MCINTOSH															
ASST SECRETARY: A. SCARTON			REVISION		DATE		BY								



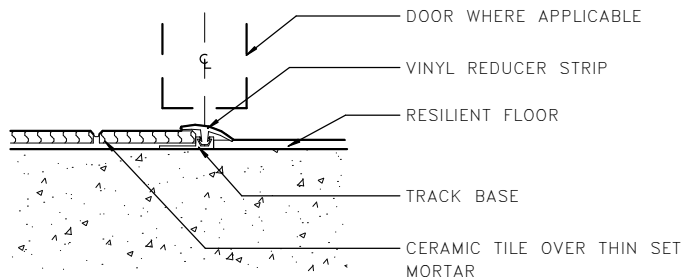
1 FLR TRANS CARPET/CERAMIC TILE
A08.40



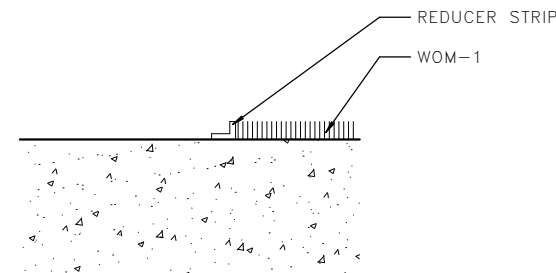
3 FLR TRANS CONC/RESILIENT FLR
A08.40



4 FLR TRANS CARPET/RESILIENT FLR
A08.40



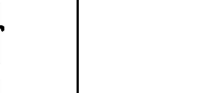

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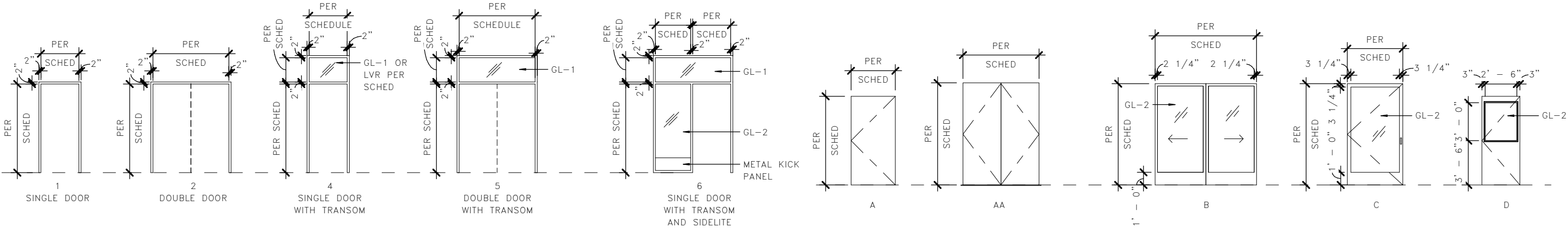
6 FLR TRANS CONC/WOM-1
A08.40

LMN



FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\LMN\mft-CENTRAL_90%.rvt											 Washington State Department of Transportation WASHINGTON STATE FERRIES	SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	TERMINAL -FLOOR DETAILS	A08.40 SHEET 1079 OF 1521 SHEETS
PRINTED: 9/21/2018 4:52:16 PM		LAST PRINTED BY: MFISHER						FED.AID PROJ.NO.						
SUBMITTAL DATE: 08/23/2018		DESIGNED BY: H. FITZPATRICK		08/23/2018		WA-2017-007-00								
ENTERED BY: G. BISHOP		CHECKED BY: M. FISHER		08/23/2018		REGION NO. 10 STATE WA								
MAR PROJ ENGR: C. TORRES		DGN ENGR MNGR: N. MCINTOSH				JOB NUMBER 18W121								
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY						

DOOR NO.	FROM ROOM: NAME	RATING (MIN.)	DOOR				DOOR					FRAME				DETAILS			HARDWARE			REMARKS	
			OPENING SIZE		PAIR	TYPE	MATERIAL	FINISH	GLAZING	STC	UNDERCUT	TYPE	MATERIAL	FINISH	GLAZING (SIDELIGHT, TRANSOM, ETC)	JAMB	HEAD	THRESH	PANIC	ELEC HW	GROUP		
			WIDTH	HEIGHT																			
TOLL PLAZA																							
137	TOILET	NR	3' – 0"	7' – 5"	–	A	HM	HPC–2	–	–	0'–0"	1	HM	HPC–2	–	2/A08.60	3/A08.60	6/A08.60	–	–	04		
150	EQUIPMENT ROOM	NR	3' – 0"	7' – 0"	–	A	HM	HPC–2	–	–	0'–0"	4	HM	HPC–2	TRANSOM W/ LVR–3	2/A08.60	3/A08.60	6/A08.60	–	–	01	ACCESS CONTROL – SEE WSF SECURITY DWGS	
151	ELEC	NR	3' – 0"	7' – 0"	–	A	HM	HPC–2	–	–	0'–0"	4	HM	HPC–2	TRANSOM W/ LVR–3	2/A08.60	3/A08.60	6/A08.60	–	–	02		
152	STO	NR	3' – 0"	7' – 0"	–	A	HM	HPC–2	–	–	0'–0"	4	HM	HPC–2	TRANSOM W/ LVR–3	2/A08.60	3/A08.60	6/A08.60	–	–	01		
156	TOLL BOOTH 4 (ADA)	NR	3' – 0"	7' – 0"	–	D	HM	HPC–2	–	–	0'–0"	1	HM	HPC–2	–	2/A08.60	3/A08.60	5/A08.60	–	–	18	812 SSMS THRESHOLD, ACCESS CONTROL – SEE WSF SECURITY DWGS	



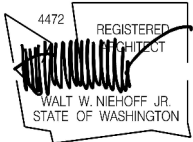
1 DOOR FRAME LEGEND

2 DOOR TYPES LEGEND



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ENTERED BY: G. BISHOP	08/23/2018				10 WA
CHECKED BY: M. FISHER	08/23/2018				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DGN ENGR MNGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00****
	REVISION		DATE	BY	

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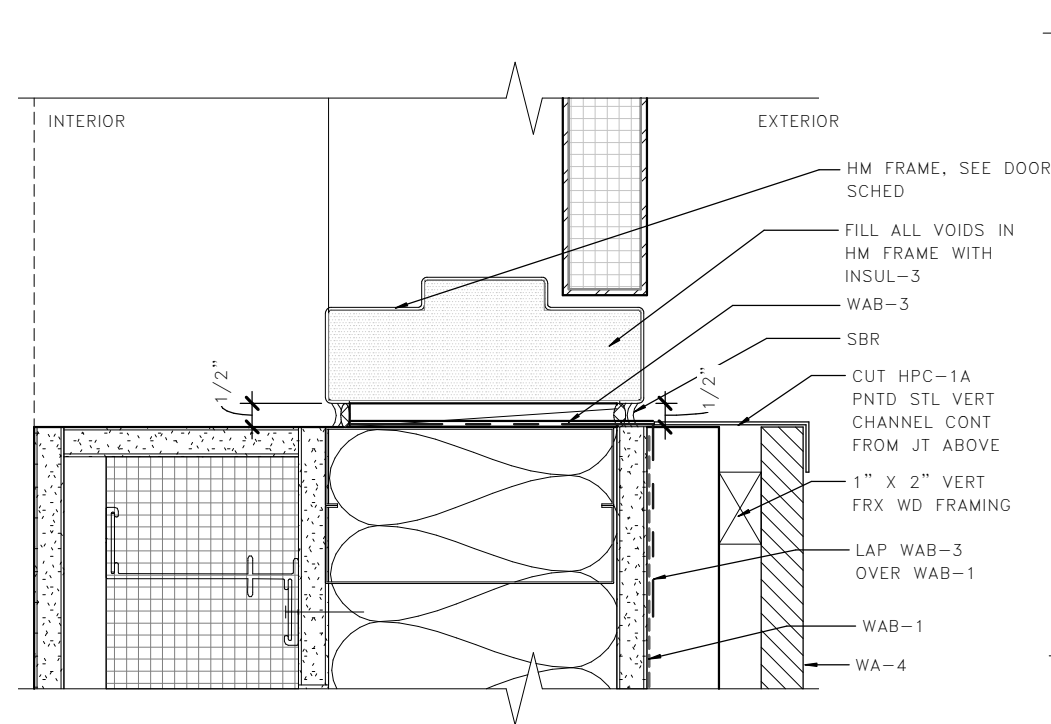


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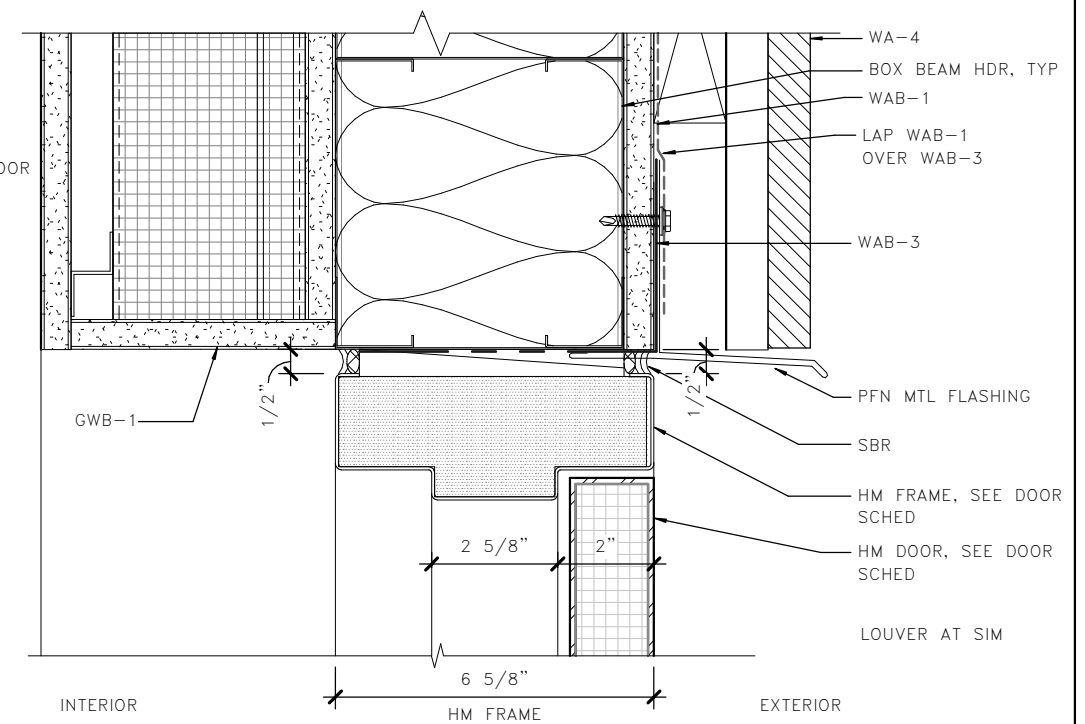


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TOLL PLAZA – DOOR SCHEDULE

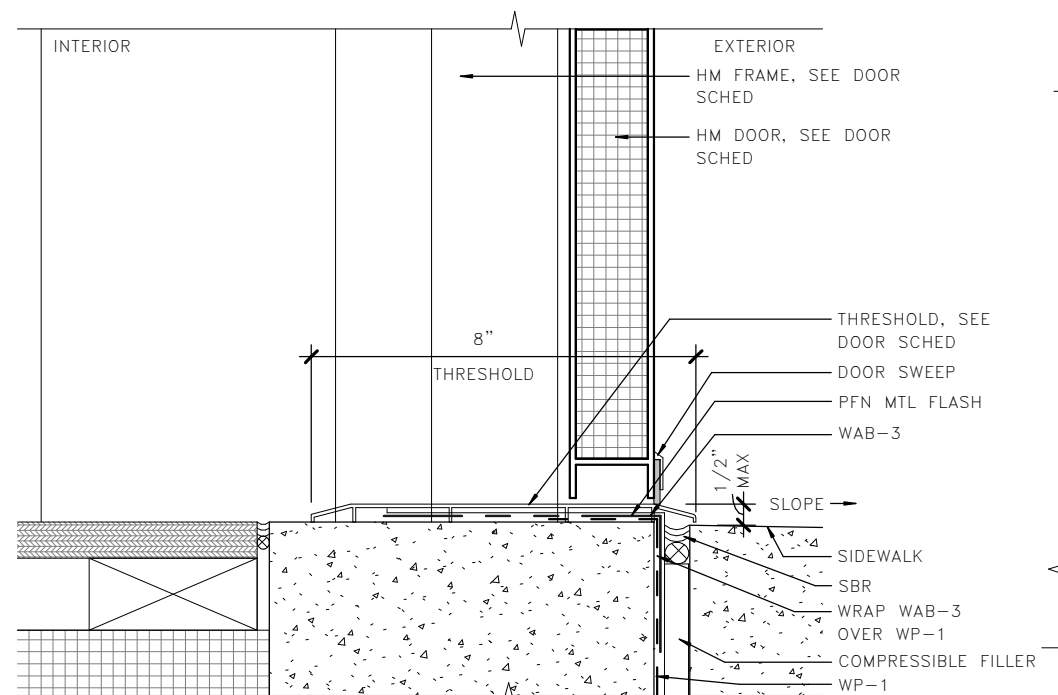
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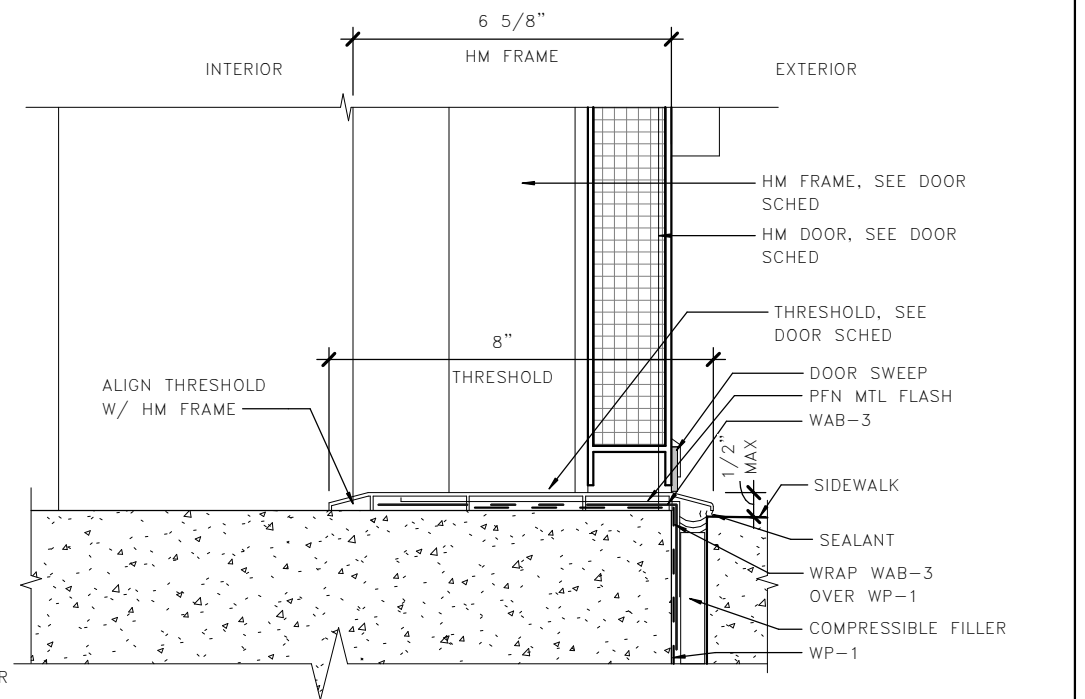
2 DOOR JAMB - TYP @ TOLL
A08.60



3 DOOR HEAD- TYP @ TOLL
A08.60



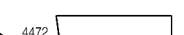

5 DOOR THRESHOLD
A08.60



6 DOOR THRESHOLD - TYP @ TOLL
A08.60

LMN



FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\LMN\mft-CENTRAL_90%.rvt												 Washington State Department of Transportation WASHINGTON STATE FERRIES		SR 525		A08.60	
PRINTED: 9/21/2018 4:52:23 PM		LAST PRINTED BY: MFISHER		FED.AID PROJ.NO.		MUKILTEO FERRY TERMINAL (PHASE 2)		SHEET									
SUBMITTAL DATE: 08/23/2018		DESIGNED BY: H. FITZPATRICK		08/23/2018		WA-2017-007-00		FERRY TERMINAL CONSTRUCTION		1081		OF					
ENTERED BY: G. BISHOP		CHECKED BY: M. FISHER		08/23/2018		REGION NO. 10 STATE WA				1521		SHEETS					
MAR PROJ ENGR: C. TORRES		DGN ENGR MNGR: N. MCINTOSH				JOB NUMBER 18W121											
ASST SECRETARY: A. SCARTON		REVISION		DATE BY		CONTRACT NO. 00****											

BUILDING STRUCTURAL NOTES: TERMINAL BUILDING AND MAINTENANCE BUILDING

DESIGN LOADS

ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION, AS AMENDED BY THE CITY OF MUKILTEO.

LIVE LOADS: IN ADDITION TO THE DEAD LOADS, THE FOLLOWING FLOOR LIVE LOADS WERE USED FOR DESIGN. LIVE LOAD REDUCTION IS PER IBC SECTION 1607.10.

		REDUCIBLE	UNREDUCIBLE
CORRIDORS, STAIRS	100 PSF	X	
SIDEWALKS, DRIVEWAYS	250 PSF		X
ASSEMBLY AREAS	100 PSF		X
OFFICES	85 PSF + 15 PSF PARTITION LOAD	X	
CATWALK	40 PSF	X	

REFER TO TABLE 1607.1 IN THE IBC FOR RELEVANT CONCENTRATED LIVE LOADS.

ROOF SNOW LOAD: THE ROOF SNOW LOAD IS DETERMINED USING CHAPTER 7 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1608 AND WITH SEAW WHITE PAPER 1-2009:

MINIMUM DESIGN LOAD 25 PSF WITHOUT DRIFT

SEISMIC LOADS: FOR THE TERMINAL BUILDING, THE SEISMIC FORCE RESISTING SYSTEMS (SFRS) USED TO RESIST EARTHQUAKE AND WIND LOADS IS COMPRISED OF SPECIAL REINFORCED CONCRETE SHEAR WALLS DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE". EARTHQUAKE DESIGN IS BASED ON THE EQUIVALENT LATERAL FORCE PROCEDURE IN ASCE 7 SECTION 12.8 MODAL ANALYSIS PROCEDURE IN ASCE 7 SECTION 12.9 WITH THE FOLLOWING FACTORS:

SITE CLASS E
ORIGINALLY REPORTED AS SITE CLASS F. SITE SPECIFIC RESPONSE SPECTRUM GENERATED BY HART CROWSER AND RECLASSIFIED AS SITE CLASS E. SEE REPORT DATED 04/28/17.

RISK CATEGORY II (PER WSF TDM-2014)

SEISMIC DESIGN CATEGORY D

RESPONSE SPECTRUM PARAMETERS
(SEE GEOTECHNICAL REPORT BY HART CROWSER DATED 04/28/17)

S_{ms} = 1.2 G
S_{m1} = 1.2 G
S_{ps} = 0.8 G
S_{d1} = 0.8 G
T_L = 10.0 SECONDS

TERMINAL BUILDING - R = 6.0
(SPECIAL REINFORCED CONCRETE SHEARWALLS)

h_n = 61 FT I_E = 1.0
T = 0.43 SECONDS C_s = 0.13
V = BASE SHEAR = 1304 KIPS (AT BASE OF TRESTLE)

SEISMIC LOADS: FOR THE MAINTENANCE BUILDING, THE SEISMIC FORCE RESISTING SYSTEMS (SFRS) USED TO RESIST EARTHQUAKE AND WIND LOADS IS COMPRISED OF SPECIAL REINFORCED CONCRETE SHEAR WALLS DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND SPECIAL REINFORCED MASONRY SHEAR WALLS PER ACI 530. EARTHQUAKE DESIGN IS BASED ON THE EQUIVALENT LATERAL FORCE PROCEDURE IN ASCE 7 SECTION 12.8 WITH THE FOLLOWING FACTORS:

SITE CLASS D
RISK CATEGORY II (PER WSF TDM-2014)
SEISMIC DESIGN CATEGORY D
RESPONSE SPECTRUM PARAMETERS
(SEE GEOTECHNICAL REPORT BY HART CROWSER DATED 08/28/17)

S_s = 1.47 G
S₁ = 0.57 G
S_{ps} = 0.98 G
S_{d1} = 0.57 G
T_L = 6.0 SECONDS

MAINTENANCE BUILDING - R = 5.0
(SPECIAL REINFORCED CONCRETE SHEAR WALLS)

h_n = 15 FT I_E = 1.0
T = 0.15 SECONDS C_s = 0.196
V = BASE SHEAR = 42.6 kips

MAINTENANCE BUILDING - R = 5.0
(SPECIAL REINFORCED MASONRY SHEAR WALLS)

h_n = 12 FT I_E = 1.0
T = 0.13 SECONDS C_s = 0.196
V = BASE SHEAR = 33.7 kips

WIND LOADS: WIND LOAD IS DETERMINED USING CHAPTERS 26-31 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1609 WITH THE FOLLOWING FACTORS:

RISK CATEGORY IV K_{zt} = 1.0
EXPOSURE CATEGORY D GC_{pi} = 0.18
V_{ult} = 115 MPH V_{asf} = 89 MPH

DESIGN WIND PRESSURES FOR DETERMINING FORCES ON COMPONENTS AND CLADDING SHALL BE DETERMINED USING CHAPTER 30 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1609 BY THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN OF SUCH ELEMENTS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

STORY DRIFTS: THE MAXIMUM LATERAL DISPLACEMENTS WITH RESPECT TO THE LEVEL BELOW (STORY DRIFTS) ARE AS FOLLOWS:

SEISMIC:

TERMINAL BUILDING
INELASTIC STORY DRIFT = 0.5% OF STORY HEIGHT

ELASTIC STORY DRIFT = INELASTIC STORY DRIFT DIVIDED BY Cd/I_E, WHERE Cd/I_E = 5

MAINTENANCE BUILDING
INELASTIC STORY DRIFT = 0.2% OF STORY HEIGHT

ELASTIC STORY DRIFT = INELASTIC STORY DRIFT DIVIDED BY Cd/I_E, WHERE Cd/I_E = 5 AT CONCRETE WALLS
Cd/I_E = 3.5 AT MASONRY WALLS

WIND:

TERMINAL BUILDING - STORY DRIFT = 0.5% OF STORY HEIGHT

MAINTENANCE BUILDING - STORY DRIFT = 0.2% OF STORY HEIGHT

SOIL LOADS:

ALLOWABLE SOIL-BEARING PRESSURE 2000 PSF DL + LL
2660 PSF DL + LL + SEISMIC/WIND

GENERAL NOTES

SUBMITTALS: SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO ANY FABRICATION OR CONSTRUCTION FOR ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING: CONCRETE OR MASONRY REINFORCEMENT, PRECAST OR PRESTRESSED CONCRETE ITEMS, EMBEDDED STEEL ITEMS, STRUCTURAL STEEL, STEEL DECK, SHEAR STUD LAYOUT, METAL GRATING, GLUED-LAMINATED MEMBERS, CROSS-LAMINATED TIMBER, CONTROL JOINT LAYOUT, CLADDING PANELS, COLD-FORMED STEEL FRAMING, AND STAIRS.

IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN.

DEFERRED SUBMITTALS: PER IBC SECTION 107.3.4.1, DRAWINGS AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN AND SHALL BE SUBMITTED TO THE ARCHITECT AND THE BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATION. SUBMITTED CALCULATIONS ARE FOR CURSORY REVIEW ONLY AND WILL GENERALLY NOT BE RETURNED. DEFERRED SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

PRECAST CONCRETE
EXTERIOR CLADDING SYSTEMS
PRE-ENGINEERED STEEL STAIRS
EQUIPMENT ANCHORAGE
SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS
NON-BEARING COLD-FORMED STEEL FRAMING
ROOF ANCHORAGE AND FALL PROTECTION
MONOPOLE COMMUNICATION TOWER

NONSTRUCTURAL COMPONENTS: DESIGN, DETAILING AND ANCHORAGE OF ALL NONSTRUCTURAL COMPONENTS SHALL BE IN ACCORDANCE WITH IBC SECTION 1613, ASCE 7 CHAPTER 13, AND THE PROJECT SPECIFICATIONS. NONSTRUCTURAL COMPONENTS DESIGNED BY OTHERS SHALL NOT INDUCE TORSIONAL LOADING INTO SUPPORTING STEEL STRUCTURAL MEMBERS WITHOUT ADDITIONAL BRACING OF THOSE MEMBERS TO ELIMINATE TORSIONAL FORCES. TORSIONAL BRACING SHALL BE DESIGNED BY THE NONSTRUCTURAL COMPONENT DESIGNER AND APPROVED BY THE ENGINEER.

CLADDING: CLADDING DESIGNED BY OTHERS SHALL BE SUPPORTED AT EACH STORY TO BE CONSISTENT WITH THE DESIGN OF THE BUILDING STRUCTURE. CLADDING DESIGNED BY OTHERS SHALL NOT INDUCE TORSIONAL LOADING INTO SUPPORTING STEEL STRUCTURAL MEMBERS WITHOUT ADDITIONAL BRACING OF THOSE MEMBERS TO ELIMINATE TORSIONAL FORCES, UNLESS OTHERWISE APPROVED BY THE ARCHITECT. TORSIONAL BRACING SHALL BE DESIGNED BY THE CLADDING DESIGNER AND APPROVED BY THE ENGINEER.

INSPECTION: SPECIAL INSPECTION PER IBC CHAPTER 17 SHALL BE PERFORMED BY AN APPROVED TESTING AGENCY AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS AND TESTING. ALL PREPARED SOIL-BEARING SURFACES SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL. SOILS COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING AGENCY OR GEOTECHNICAL ENGINEER.

SPECIAL CONDITIONS: CONTRACTOR SHALL VERIFY ALL LEVELS, DIMENSIONS, AND EXISTING CONDITIONS IN THE FIELD BEFORE PROCEEDING. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR FIELD CHANGES PRIOR TO INSTALLATION OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN DIRECTION FROM THE ARCHITECT BEFORE PROCEEDING. DIMENSIONS NOTED AS PLUS OR MINUS (±) INDICATE UNVERIFIED DIMENSIONS AND ARE APPROXIMATE. NOTIFY ARCHITECT IMMEDIATELY OF CONFLICTS OR EXCESSIVE VARIATIONS FROM INDICATED DIMENSIONS. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS--DO NOT SCALE DRAWINGS. DIMENSIONS OF EXISTING CONDITIONS MAY BE BASED ON RECORD DRAWINGS AND ARE TO BE FIELD-VERIFIED BY THE CONTRACTOR.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS, EXISTING CONSTRUCTION AND SOIL EXCAVATIONS, AS REQUIRED, AND IN A MANNER SUITABLE TO THE WORK SEQUENCE. TEMPORARY SHORING AND BRACING SHALL NOT BE REMOVED UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS AND MATERIALS HAVE ACHIEVED DESIGN STRENGTH. NO REINFORCING BARS IN EXISTING CONSTRUCTION SHALL BE CUT UNLESS DIRECTED TO BY THE ARCHITECT OR AS SHOWN ON THE DRAWINGS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.

SOILS: SEE THE GEOTECHNICAL REPORTS BY HART CROWSER, DATED 04/28/17 FOR THE TERMINAL BUILDING, AND 08/28/17 FOR THE MAINTENANCE BUILDING, FOR MORE COMPLETE INFORMATION. EARTHWORK MATERIAL, BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORTS. BACKFILL BEHIND WALLS SHALL NOT BE PLACED BEFORE THE WALL IS PROPERLY SUPPORTED BY THE FLOOR SLAB OR TEMPORARY BRACING. ALL TOPSOIL ORGANICS AND LOOSE SURFACE SOIL SHALL BE REMOVED FROM BENEATH FILL SUPPORTING CONCRETE SLABS OR PAVING.

MEMBER SPACING: ALL FRAMING MEMBERS SHALL BE EQUALLY SPACED BETWEEN GRID LINES, COLUMNS, AND DIMENSIONED FRAMING UNLESS NOTED OTHERWISE.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF IBC CHAPTER 19.

CONCRETE MIXES: CONCRETE MIXES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

f'c (PSI)	TEST AGE (DAYS)	W/C RATIO	USE
4,000	28	0.5	SLAB-ON-GRADE, FOUNDATIONS, CONCRETE WALLS
5,000	28	0.45	BEAMS, COLUMNS, SLABS, SLABS ON STEEL DECK, TOPPING SLABS* AND SHEAR WALLS

* LIMIT TOTAL WATER CONTENT TO 250 LBS/CUBIC YARD OF CONCRETE

WATER-REDUCING ADMIXTURES MAY BE INCORPORATED IN CONCRETE MIX DESIGNS, BUT SHALL CONFORM TO ASTM C 494, AND BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CACL₂ OR OTHER WATER-SOLUBLE CHLORIDE ADMIXTURES SHALL NOT BE USED.

WATER/CEMENT (W/C) RATIO SHALL BE MEASURED BY WEIGHT AND SHALL BE BASED ON THE TOTAL CEMENTITIOUS MATERIAL. WATER/CEMENT RATIO AND WATER CONTENT SHALL BE DETERMINED BY THE SUPPLIER BASED ON STRENGTH REQUIREMENTS AND SHALL NOT EXCEED THE MAXIMUM WATER/CEMENT RATIO AND/OR WATER CONTENT IF SHOWN ABOVE OR IN THE PROJECT SPECIFICATIONS.

FIELD-MEASURED SLUMP SHALL CONFORM TO THE SUBMITTED CONCRETE MIX DESIGN. TOLERANCE OF SLUMP SHALL CONFORM TO ASTM C 94.

AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C 260 SHALL BE USED IN ALL CONCRETE MIXES FOR FLATWORK WHICH IS EXPOSED TO WEATHER. THE AMOUNT OF ENTRAINED AIR SHALL BE 5 PERCENT ±1 1/2 PERCENT BY VOLUME. THE AMOUNT OF ENTRAINED AIR SHALL BE MEASURED IN THE FIELD AT THE DISCHARGE FROM THE TRUCK.

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR APPROVAL 2 WEEKS PRIOR TO PLACING ANY CONCRETE. THE MIX DESIGN SHALL BE IN CONFORMANCE WITH ACI 318, CHAPTER 5. THE SUBMITTAL SHALL INDICATE WHERE EACH CONCRETE MIX IS TO BE USED ON THE PROJECT, AS WELL AS THE MAXIMUM AGGREGATE SIZE OF EACH MIX. MAXIMUM AGGREGATE SIZE SHALL CONFORM TO THE PROJECT SPECIFICATIONS.

CURING: IF THE AIR TEMPERATURE WILL EXCEED 75 DEGREES F WITHIN 48 HOURS OF PLACING CONCRETE, A MOIST CURE SHALL BE APPLIED TO THE CONCRETE FOR A PERIOD OF 36 HOURS AFTER FINISHING CONCRETE SURFACES. REFER TO THE PROJECT SPECIFICATIONS FOR CURING REQUIREMENTS.

kpff

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ASST SECRETARY:	A. SCARTON				CONTRACT NO.
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SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	SB00.01
BUILDING STRUCTURAL NOTES	SHEET 1082 OF 1521 SHEETS

BUILDING STRUCTURAL NOTES: TERMINAL BUILDING AND MAINTENANCE BUILDING

REINFORCING STEEL

DEFORMED BARS	ASTM A 615, GRADE 60
SPECIAL DUCTILE QUALITY DEFORMED BARS	ASTM A 706, GRADE 60 LOW ALLOY
HEADED DEFORMED BARS	ASTM A 970, HEAD TYPE HA
ADHESIVE REINFORCING DOWELS	ASTM A 615, GRADE 60
	ADHESIVE AS REQUIRED PER
	POST-INSTALLED ANCHORS

SPECIAL DUCTILE QUALITY (SDQ) DEFORMED BARS SHALL BE USED FOR VERTICAL REINFORCING IN SHEAR WALLS, DIAGONAL REINFORCING IN DIAGONALLY REINFORCED COUPLING BEAMS, TOP AND BOTTOM REINFORCING IN ALL OTHER COUPLING BEAMS, AND OTHER REINFORCING DESIGNATED "SDQ" ON THE DRAWINGS. ASTM A 615, GRADE 60, REBAR MAY BE USED IN THESE MEMBERS IF 1) THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3,000 PSI), AND 2) THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL TENSILE YIELD STRENGTH IS NOT LESS THAN 1.25. MILL TEST CERTIFICATIONS FOR SDQ ASTM A 615, GRADE 60, BARS SHALL BE SUBMITTED TO THE OWNER'S SPECIAL INSPECTOR AND ARCHITECT PRIOR TO PLACING THE BARS.

REINFORCING SHALL BE SUPPORTED AS SPECIFIED BY THE PROJECT SPECIFICATIONS AND THE CRSI MANUAL OF STANDARD PRACTICE. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI STANDARD OF PRACTICE AS OUTLINED IN ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."

LAP ALL REINFORCING BARS AS NOTED ON THE DRAWINGS. WHERE SPLICE LENGTH IS NOT SHOWN, USE TYPE LB (LBT FOR TOP BARS) SPLICE PER DEVELOPMENT AND SPLICE LENGTH SCHEDULE. MECHANICAL SPLICES CALLED OUT ON THE PLANS SHALL BE TYPE 1, UNLESS OTHERWISE NOTED. TYPE 1 SPLICES SHALL DEVELOP 125 PERCENT OF THE YIELD CAPACITY OF THE SPLICED BARS IN BOTH TENSION AND COMPRESSION. TYPE 2 SPLICES SHALL DEVELOP THE SPECIFIED TENSILE STRENGTH OF THE SPLICED BARS IN TENSION IN ADDITION TO MEETING TYPE 1 SPLICE REQUIREMENTS. SUBMIT ICC-ES OR IAPMO-UES REPORT VALID FOR THE 2012 IBC DEMONSTRATING COMPLIANCE OF COUPLERS WITH THESE REQUIRMENTS.

AT THE CONTRACTOR'S OPTION AND WITH THE ARCHITECT'S APPROVAL, HEADED DEFORMED BARS MAY BE USED IN LIEU OF REINFORCING BARS SHOWN WITH STANDARD 90 OR 180 DEGREE HOOKS AND MECHANICAL SPLICES MAY BE USED IN LIEU OF LAP SPLICES. USE OF HEADED DEFORMED BARS IS SUBJECT TO CONFORMANCE WITH ACI 318 SECTION 12.6.1. USE OF MECHANICAL SPLICES IS SUBJECT TO CONFORMANCE WITH ACI 318 SECTION 21.1.6 AND REQUIRES SUBMITTAL OF AN ICC-ES OR IAPMO-UES REPORT VALID FOR THE 2012 IBC.

REINFORCING STEEL SHALL HAVE PROTECTION AS FOLLOWS, UNLESS NOTED OTHERWISE:

USE	COVER
BEAM STIRRUPS AND COLUMN TIES	1 1/2"
INTERIOR SLAB BARS	1 1/2"
NONSTRUCTURAL SLAB-ON-GRADE	MID-DEPTH
STRUCTURAL SLAB-ON-GRADE: BOTTOM BARS	2"
TOP BARS	1 1/2"
WALL BARS: INTERIOR FACES	3/4"
EXPOSED TO EARTH OR WEATHER	1 1/2" (#5 AND SMALLER)
	2" (#6 AND LARGER)
EXPOSED TO SALT WATER SPRAY	3"
FOOTING, GRADE BEAM: BOTTOM BARS	3" (CAST AGAINST EARTH)
SIDE BARS	1 1/2"
	2" (#6 AND LARGER WHERE EXPOSED TO EARTH OR WEATHER)
TOP BARS	2"

WELDING OF REINFORCING, WHEN APPROVED BY THE ARCHITECT, SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES AND PREHEATED IN ACCORDANCE WITH AWS D1.4, REINFORCING STEEL WELDING CODE. WELDERS AND WELDING PROCEDURES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.4. MATERIALS SHALL CONFORM TO THE FOLLOWING:

REINFORCING BARS TO BE WELDED	ASTM A 706, GRADE 60, LOW ALLOY
WELDING ELECTRODES	E80XX

NONSHRINK GROUT: BASE PLATE GROUT SHALL BE NONSHRINK TYPE WITH MINIMUM F'C = 8,000 PSI. ALL OTHER NONSHRINK GROUT SHALL HAVE MINIMUM F'C = 5,000 PSI.

MASONRY

CONCRETE MASONRY: ALL CONCRETE MASONRY UNITS SHALL COMPLY WITH ASTM C 90 WITH AVERAGE NET COMPRESSIVE STRENGTH OF 2150 PSI. ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF f'm = 1500 PSI. CONCRETE MASONRY WALLS SHALL BE REINFORCED AS SHOWN ON THE PLANS AND DETAILS. WALLS SHALL BE SOLID GROUTED, UNLESS NOTED OTHERWISE.

MORTAR: ALL MORTAR SHALL BE TYPE S AND SHALL CONFORM TO IBC SECTION 2103.

MASONRY GROUT: GROUT SHALL CONFORM TO TMS 602. GROUT SHALL CONFORM TO PROPORTION SPECIFICATIONS OF TMS 602. MORTAR SAND SHALL BE USED. GROUT SHALL BE POURED IN MAXIMUM LIFTS OF 5'-0". ALL CELLS CONTAINING VERTICAL BARS AND ALL BOND BEAMS SHALL BE FILLED WITH GROUT. WALLS SHALL BE GROUTED SOLID, UNLESS NOTED OTHERWISE.

REINFORCING STEEL: REINFORCING SHALL CONFORM TO IBC SECTION 2103.14 AND TMS 602. DEFORMED BARS SHALL BE GRADE 60 AND SHALL BE SECURELY PLACED.

STRUCTURAL STEEL

REFERENCE SPECIFICATIONS

STRUCTURAL STEEL	AISC 360 – SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
HIGH STRENGTH BOLTS	RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS
WELDING	AWS D1.1, TYPICAL AWS D1.3 FOR STEEL DECK AND COLD-FORMED FRAMING AWS D1.8 FOR SUPPLEMENTAL SEISMIC PROVISIONS AWS PREQUALIFIED JOINT DETAILS
WELDER CERTIFICATION	AMERICAN WELDING SOCIETY (AWS) WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO)
STEEL DECKING	STEEL DECK INSTITUTE PUBLICATION NO. 31 AISI S100 – NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS

STEEL MATERIALS

WIDE FLANGE SHAPES (W AND WT)	ASTM A 992
PLATES (PL), BARS, ANGLES (L), CHANNELS (C AND MC)	ASTM A 36, UNLESS NOTED OTHERWISE
STRUCTURAL TUBES (HSS)	ASTM A 500, GRADE C
STEEL PIPE	ASTM A 53, GRADE B
STRUCTURAL BOLTS	ASTM A 325 TYPICAL, A 490 AS NOTED
ANCHOR RODS	ASTM F 1554, GRADE 36, UNLESS NOTED OTHERWISE
THREADED RODS	ASTM A 36
WELDING ELECTRODES	70 KSI, LOW HYDROGEN, TYPICAL 60 KSI, MINIMUM, STEEL DECK AND COLD-FORMED FRAMING

STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE REQUIREMENTS OF IBC CHAPTER 22. ALL MEMBERS ARE TO BE ERECTED WITH NATURAL MILL CAMBER OR INDUCED CAMBER UP, UNLESS OTHERWISE NOTED ON THE PLANS. SUBSTITUTION OF MEMBER SIZES OR STEEL GRADE WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ARCHITECT. BOLTED CONNECTIONS ARE TO BE OF HIGH STRENGTH ASTM A 325 BOLTS AS SHOWN, UNLESS NOTED OTHERWISE. A MINIMUM OF TWO BOLTS IS REQUIRED FOR ALL BEAM CONNECTIONS. ALTERNATIVE CONNECTIONS TO THOSE SHOWN ON THESE DRAWINGS WILL REQUIRE PRIOR APPROVAL OF THE ARCHITECT.

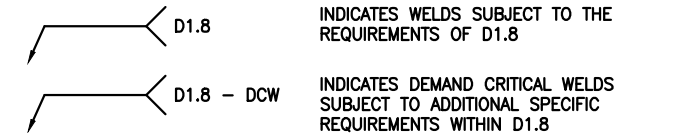
BEAM CAMBER INDICATED ON DRAWINGS IS THE UPWARD CAMBER REQUIRED IN THE BEAM AS DELIVERED TO THE JOB SITE. CONTRACTOR TO CONSIDER CAMBER LOSS, IF ANY, DUE TO SHIPPING AND HANDLING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPEs, SURFACE ROUGHNESS VALUES, AND UNEQUAL PARTS.

GALVANIZING: STRUCTURAL STEEL AND CONNECTIONS, INCLUDING PLATES AND OTHER STEEL ITEMS EMBEDDED IN CONCRETE, WHICH ARE EXPOSED TO WEATHER AND NOT TO BE PAINTED SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN COMPLIANCE WITH ASTM A 123. ALL FIELD WELDS ON GALVANIZED MATERIAL SHALL BE COATED WITH BRUSH APPLIED ZINC-RICH PAINT COMPLYING WITH THE SPECIFICATIONS.

WELDING: ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS, AND SHALL BE PERFORMED BY AWS-WABO-CERTIFIED WELDERS USING 70 KSI ELECTRODES AND LOW HYDROGEN PROCESSES. ONLY WELDS THAT ARE PREQUALIFIED, AS DEFINED BY AWS, OR QUALIFIED BY TESTING SHALL BE USED. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. WELDS SHOWN ON THE DRAWINGS ARE MINIMUM SIZES. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON THICKNESS. MINIMUM WELD SIZE SHALL BE 3/16-INCH, UNLESS NOTED OTHERWISE. THE WELDS SHOWN ARE FOR THE FINAL CONNECTIONS. FIELD WELD SYMBOLS ARE SHOWN WHERE FIELD WELDS ARE REQUIRED BY THE STRUCTURAL DESIGN. WHERE FIELD WELD IS NOT INDICATED, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOP OR FIELD-WELDED IN ORDER TO FACILITATE THE STRUCTURAL STEEL ERECTION.

WELDING OF THE SEISMIC FORCE RESISTING SYSTEM SHALL BE EXECUTED IN ACCORDANCE WITH THE PROVISIONS OF AWS D1.8 "STRUCTURAL WELDING CODE – SEISMIC SUPPLEMENT". WELDS ASSOCIATED WITH THE SEISMIC FORCE RESISTING SYSTEM ARE IDENTIFIED WITHIN THESE DRAWINGS AS FOLLOWS:



THE LOWEST ANTICIPATED SERVICE TEMPERATURE IS 32 DEGREES F.

FIREPROOFING: EXCEPT WHERE PAINTED OR GALVANIZED, STRUCTURAL STEEL SHALL BE FIREPROOFED PER THE SPECIFICATIONS. FIREPROOFING SHALL BE GCP APPLIED TECHNOLOGIES OR APPROVED EQUAL. THICKNESS SHALL BE AS INDICATED ON ICC REPORT NO. ESR-1186. PRIMARY STRUCTURAL FRAME CONSISTS OF ALL COLUMNS, GIRDERS AND BEAMS ATTACHED TO COLUMNS, AND ANY BEAM CARRYING GREATER THAN 500 SQUARE FEET OF FLOOR OR ROOF AREA. ALL OTHER FRAMING IS TO BE CONSIDERED SECONDARY. STRUCTURAL MEMBERS SHALL BE ASSUMED TO BE IN A THERMAL RESTRAINED CONDITION FOR THE PURPOSES OF DETERMINING FIREPROOFING THICKNESS. WHERE SPRAY-APPLIED FIREPROOFING IS EXPOSED TO WEATHER, STRUCTURAL STEEL SHALL BE CONSIDERED EXPOSED TO WEATHER.

STEEL DECK

STEEL DECK SHALL CONFORM TO ASTM A 653. WHERE THE DECK IS LEFT PERMANENTLY EXPOSED, GALVANIZED COATING SHALL CONFORM TO ASTM A 924, G90. IN OTHER AREAS, GALVANIZED COATING SHALL CONFORM TO ASTM A 924, G60. STEEL DECK SHALL CONFORM TO THE FOLLOWING:

t _v (PSI)	USE
40,000 MINIMUM	COMPOSITE FLOOR/ROOF SLAB DECK
33,000 MINIMUM	NONCOMPOSITE STEEL ROOF DECK

MINIMUM DECK GAUGES ARE SHOWN ON PLANS AND ARE BASED ON 3-SPAN, UNSHORED CONDITIONS. HEAVIER DECK GAUGES MAY BE REQUIRED FOR CONDITIONS OTHER THAN THESE, DEPENDING ON MANUFACTURER'S AND CONTRACTOR'S LAYOUT. DECK SUPPLIER SHALL VERIFY DECK GAUGES AND CAPACITIES BASED ON ACTUAL DECK LAYOUT AND SPAN CONDITIONS INCLUDING A 70 PSF SUPERIMPOSED DEAD LOAD ALLOWANCE FOR THE ROOF DECK. DEVIATIONS IN DECK GAUGES FROM THOSE SHOWN SHALL BE SUBMITTED TO THE ARCHITECT, ALONG WITH A VALID ICC REPORT FOR APPROVAL PRIOR TO SHOP DETAILING.

DECK WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE – SHEET STEEL." WELDERS SHALL BE QUALIFIED BY WABO SHEET STEEL WELDER CERTIFICATION PROGRAM. ARC SPOT WELD SIZES NOTED ARE BASED ON THE NOMINAL (VISIBLE) DIAMETER.

CONTRACTOR SHALL PROVIDE CLOSURE PLATES, FLASHING, AND ALL MISCELLANEOUS COLD-FORMED FRAMING NECESSARY TO COMPLETE THE WORK. THE MINIMUM BEARING SHALL BE 2 INCHES.

COMPOSITE FLOOR/ROOF SLAB DECK: STEEL FLOOR DECK SHALL BE A COMPOSITE TYPE DECK WITH RIBS AT 12 INCHES ON CENTER OF THE SIZE AND GAUGE SHOWN ON THE PLANS AND DETAILS, OR AN APPROVED EQUAL.

FLOOR DECK FASTENING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE, AND EXCEPT AS INDICATED IN TYPICAL COMPOSITE BEAM DETAILS.

MIN 5/8-INCH DIAMETER ARC-SPOT WELDS AT 12 INCHES ON CENTER AT TRANSVERSE AND PERIMETER SUPPORTS
MIN 5/8-INCH DIAMETER ARC-SPOT WELDS AT 18 INCHES ON CENTER AT LONGITUDINAL SUPPORTS
BUTTON PUNCH OR 1 1/2-INCH TOP OR SIDE SEAM WELD AT 18 INCHES ON CENTER AT SIDE LAP CONNECTIONS

NONCOMPOSITE ROOF DECK: STEEL ROOF DECK SHALL BE OF THE SIZE AND GAUGE SHOWN ON THE PLANS OR AN APPROVED EQUAL. ROOF DECK FASTENING SHALL BE AS SHOWN ON THE PLANS. THE MINIMUM END LAP SHALL BE 2 INCHES CENTERED OVER SUPPORTS.

SUSPENDED CEILINGS, LIGHT FIXTURES, PIPES, DUCTS, MECHANICAL OR ELECTRICAL EQUIPMENT, OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE NONCOMPOSITE STEEL ROOF DECK WITHOUT APPROVAL OF THE ENGINEER.

HOLES OR COMBINATIONS OF HOLES IN NONCOMPOSITE ROOF DECK, WHICH CUT TWO WEBS WHICH ARE CLOSER THAN 24 INCHES ON CENTER IN ANY DECK SPAN, MAY REQUIRE DECK REINFORCEMENT AND REQUIRE DIRECTION FROM THE ENGINEER.

ANCHORS

POST-INSTALLED ANCHORS: PROVIDE POST-INSTALLED ANCHORS AS SPECIFIED IN THESE DRAWINGS.

USE OF ALTERNATE PRODUCTS, OR OF POST-INSTALLED ANCHORS AT LOCATIONS NOT SHOWN IN THESE DRAWINGS, IS SUBJECT TO THE APPROVAL OF THE ENGINEER. SUBMIT PROPOSED ANCHORS TO THE ENGINEER WITH AN ICC-ES OR IAPMO UES REPORT VALID FOR THE 2012 IBC. SUBMITTED ICC-ES AND IAPMO UES REPORTS SHALL DEMONSTRATE THAT THE ANCHORS ARE SUITABLE FOR USE IN CRACKED CONCRETE OR UNCRACKED, FULLY GROUTED REINFORCED CONCRETE MASONRY UNITS. WHERE ANCHORS RESIST SEISMIC LOADS, SUBMITTED ICC-ES AND IAPMO UES REPORTS SHALL DEMONSTRATE THAT THE ANCHORS ARE SUITABLE FOR THE RESISTANCE OF SEISMIC LOADS.

ADHESIVES SHALL NOT BE INSTALLED PRIOR TO THE CONCRETE REACHING AN AGE OF 21 DAYS AS REQUIRED BY ACI 318.

HEADED SHEAR STUDS AND DEFORMED BAR ANCHORS: ALL HEADED SHEAR STUDS SHALL CONFORM TO ASTM A 108 AND SHALL BE 3/4-INCH DIAMETER HEADED STUDS, UNLESS NOTED OTHERWISE. STUD LENGTHS AFTER WELD SHALL BE AS SHOWN ON THE DRAWINGS. DEFORMED BAR ANCHORS (DBA) SHALL CONFORM TO ASTM A 496 AND SHALL BE OF THE SIZE AND LENGTH SHOWN ON THE DRAWINGS. ALL STUDS AND DEFORMED BAR ANCHORS SHALL BE AUTOMATICALLY END WELDED IN SHOP OR FIELD WITH EQUIPMENT RECOMMENDED BY MANUFACTURER.

COLD-FORMED STEEL

COLD-FORMED STEEL FRAMING MEMBERS SHALL BE OF THE TYPE, SHAPE, SIZE, GAUGE, AND SPACING AS SHOWN ON THE DRAWINGS. MEMBER TYPES AND SIZES SHOWN ON THE DRAWINGS REFER TO MEMBERS AS DEFINED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). MEMBERS EQUIVALENT IN SHAPE, SIZE, STIFFNESS, AND STRENGTH BY OTHER MANUFACTURERS MAY BE SUBSTITUTED FOR FRAMING MEMBERS SHOWN. ALTERNATE MEMBERS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO FABRICATION AND ERECTION. ALL COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE AISI S100 – "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS." ALL STUDS, TRACKS AND JOISTS SHALL BE GALVANIZED. FASTENINGS SHALL BE AS SHOWN ON THE DRAWINGS. FASTENINGS NOT SHOWN SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

COLD-FORMED STEEL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3, "SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES." WELDERS SHALL BE QUALIFIED BY WABO SHEET STEEL WELDER CERTIFICATION PROGRAM.

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SR 525	SB00.02
MUKILTEO FERRY TERMINAL (PHASE 2)	
FERRY TERMINAL CONSTRUCTION	SHEET
	1083
	OF
BUILDING STRUCTURAL NOTES	1521
	SHEETS

BUILDING STRUCTURAL NOTES: TERMINAL BUILDING AND MAINTENANCE BUILDING

WOOD

IDENTIFICATION: ALL SAWN LUMBER AND PRE-MANUFACTURED WOOD PRODUCTS SHALL BE IDENTIFIED BY THE GRADE MARK OR A CERTIFICATE OF INSPECTION ISSUED BY THE CERTIFYING AGENCY.

SAWN LUMBER: SAWN LUMBER SHALL CONFORM TO "GRADING AND DRESSING RULES," WEST COAST LUMBER INSPECTION BUREAU (WCLIB), LATEST EDITION. LUMBER SHALL BE KILN DRIED AND BE THE SPECIES AND GRADE NOTED BELOW. DESIGN STRESSES ARE BASED ON NDS. ALL LUMBER IN CONTACT WITH CMU, CONCRETE, OR GROUND SURFACES SHALL BE PRESERVATIVE TREATED.

USE	GRADE	FB (PSI) (SINGLE USE)
POSTS		
5"x5" AND LARGER	DOUGLAS FIR-LARCH NO. 1	1,200
4"x4"	DOUGLAS FIR-LARCH NO. 1	1,000

ALL FRAMING ACCESSORIES AND FASTENERS IN CONTACT WITH PRESERVATIVE-TREATED LUMBER SHALL BE GALVANIZED WITH A MINIMUM COATING OF 1.85 OUNCES/SQUARE FOOT.

RATED SHEATHING: WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF U.S. DEPARTMENT OF COMMERCE (DOC) PS-1 "CONSTRUCTION AND INDUSTRIAL PLYWOOD" OR DOC PS-2 "PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS". EACH PANEL SHALL BEAR THE APA GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION. SHEATHING SHALL BE AS FOLLOWS:

ROOF SHEATHING
15/32" 32/16 C-D INT APA WITH EXTERIOR GLUE (CDX)

ALL ROOF SHEATHING SHALL BE INSTALLED FACE GRAIN PERPENDICULAR TO SUPPORTS OR AS INDICATED ON THE DRAWINGS. SHEATHING SHALL BE UNBLOCKED OR AS INDICATED ON DRAWINGS. INSTALL WITH 1/8" GAP BETWEEN PANELS. ROOF DIAPHRAGM NAILS SHALL BE DRIVEN FLUSH, BUT SHALL NOT FRACTURE THE SURFACE OF SHEATHING. NAILING NOT SHOWN SHALL BE AS INDICATED IN IBC TABLE 2304.9.1. ALL NAILS SHALL BE COMMON.

CROSS LAMINATED TIMBER: CROSS LAMINATED TIMBER(CLT) PANELS SHALL COMPLY WITH ANSI/APA PRG 320-2012, STANDARD FOR PERFORMANCE-RATED CROSS LAMINATED TIMBER. CLT PANEL GRADES SHALL BE AS FOLLOWS:

4 1/8" GRADE V1 OR V2

GLUED LAMINATED MEMBERS: GLUED LAMINATED MEMBERS SHALL BE MANUFACTURED AND IDENTIFIED IN ACCORDANCE WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) A190.1 "STRUCTURAL GLUE LAMINATED TIMBER". EACH MEMBER SHALL BEAR AN AITC IDENTIFICATION MARK AND BE ACCOMPANIED BY AN AITC CERTIFICATE OF CONFORMANCE. ONE COAT OF END SEALER SHALL BE APPLIED IMMEDIATELY AFTER TRIMMING IN EITHER SHOP OR FIELD. MEMBERS SHALL BE VISUALLY GRADED WESTERN SPECIES PREMIUM GRADE WITH STRENGTH INDICATED AS FOLLOWS:

	COMBINATION SYMBOL	SPECIES	USES
BEAMS	24F-V4	DF/DF	SIMPLE SPAN
	24F-V8	DF/DF	CONTINUOUS OR CANTILEVER SPAN
COLUMNS	2-L2	DF/DF	CRUCIFORM COLUMNS

BUILDING STRUCTURAL ABBREVIATIONS: TERMINAL BLDG AND MAINTENANCE BLDG

AB	ANCHOR BOLT	IBC	INTERNATIONAL BUILDING CODE
ADD'L	ADDITIONAL	ID	INSIDE DIAMETER
ADJ	ADJUSTABLE	IE	INVERT ELEVATION
AFF	ABOVE FINISH FLOOR	IF	INSIDE FACE
AGG	AGGREGATE	IN	INCH
ANCH	ANCHOR	INFO	INFORMATION
ARCH	ARCHITECTURAL	INT	INTERIOR
AESS	ARCHITECTURAL EXPOSED	JST	JOIST
	STRUCTURAL STEEL	JT	JOINT
B/	BOTTOM OF	K	KIP (1,000 LBS.)
BLDG	BUILDING	KSF	KIPS PER SQUARE FOOT
BF	BRACED FRAME	L2	LEVEL 2
BLKG	BLOCKING	LF	LINEAL FOOT
BM	BEAM	LLH	LONG LEG HORIZONTAL
BN	BOUNDARY NAILING	LLV	LONG LEG VERTICAL
BOT	BOTTOM	LP	LOW POINT
BRG	BEARING	LSH	LONG SIDE HORIZONTAL
BSMT	BASEMENT	LSV	LONG SIDE VERTICAL
BTWN	BETWEEN	LVL	LAMINATED VENEER LUMBER
BUR	BUILT-UP ROOF	MAX	MAXIMUM
C	CAMBER	MECH	MECHANICAL
CAP	CAPACITY	MFR	MANUFACTURER
CC	CENTER TO CENTER	MID	MIDDLE
CFS	COLD-FORMED STEEL	MIN	MINIMUM
CIP	CAST IN PLACE	MISC	MISCELLANEOUS
CJ	CONSTRUCTION OR CONTROL JOINT	MOM	MOMENT
CL	CENTERLINE	NIC	NOT IN CONTRACT
CLG	CEILING	NOM	NOMINAL
CLR	CLEAR	NO	NUMBER
CLT	CROSS LAMINATED TIMBER	NS	NEAR SIDE
CMU	CONCRETE MASONRY UNIT	NS	NONSHRINK
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE	OC	ON CENTER
CONN	CONNECTION	OD	OUTSIDE DIAMETER
CONST	CONSTRUCTION	OF	OUTSIDE FACE
CONT	CONTINUOUS	OPNG	OPENING
CONTR	CONTRACTOR	OPP	OPPOSITE
COORD	COORDINATE	P	POST
CP	COMPLETE PENETRATION	PC	PIECE
CTR	CENTER	PEN	PENETRATION
CY	CUBIC YARD	PL	PLATE
DB	DIVIDER BEAM	PL	PROPERTY LINE
DBA	DEFORMED BAR ANCHOR	PLWD	PLYWOOD
DBL	DOUBLE	PNL	PANEL
DEMO	DEMOLISH	PP	PARTIAL PENETRATION
DET	DETAIL	PSI	POUNDS PER SQUARE INCH
DF	DOUGLAS FIR	PSF	POUNDS PER SQUARE FOOT
DIA	DIAMETER	PT	POINT
DIAG	DIAGONAL	R	RADIUS
DKG	DECKING	RD	ROOF DRAIN
DN	DOWN	REINF	REINFORCING
DO	DITTO	REM	REMAIN(DER)
DWF	DEFORMED WIRE FABRIC	REQ'D	REQUIRED
DWG	DRAWING	RND	ROUND
DWL	DOWEL	RO	ROUGH OPENING
EA	EACH	RTN	RETURN
EF	EACH FACE	SC	SLIP CRITICAL
EL	ELEVATION	SCHED	SCHEDULE
ELECT	ELECTRICAL	SDC	SEISMIC DESIGN CATEGORY
ELEV	ELEVATOR	SECT	SECTION
EN	EDGE NAILING	SHT	SHEET
EQ	EQUAL	SIM	SIMILAR
EQUIP	EQUIPMENT	SOG	SLAB-ON-GRADE
ES	EACH SIDE	SPACE	SPACE
EW	EACH WAY	SPEC	SPECIFICATION
EX	EXISTING	SQ	SQUARE
EXP	EXPANSION	SS	STAINLESS STEEL
EXT	EXTERIOR	ST	SUSTAINED TENSION ANCHOR
FD	FLOOR DRAIN	STD	STANDARD
FDN	FOUNDATION	STIFF	STIFFENER
FF	FINISH FLOOR	STIRR	STIRRUP
FIN	FINISH	STL	STEEL
FLG	FLANGE	STRUCT	STRUCTURAL
FLR	FLOOR	SUPP	SUPPORT
FOB	FACE OF BUILDING	SYM	SYMMETRICAL
FS	FAR SIDE	T/	TOP OF
FT	FEET	T&B	TOP AND BOTTOM
FTG	FOOTING	T&G	TONGUE AND GROOVE
GA	GAUGE	THK	THICK(NESS)
GALV	GALVANIZED	THRU	THROUGH
GEN	GENERAL	TRANS	TRANSVERSE
GL	GLUE LAMINATED BEAM	TYP	TYPICAL
GOVT	GOVERNMENT	UNO	UNLESS NOTED OTHERWISE
GR	GRADE	VERT	VERTICAL
GWB	GYPSTUM WALL BOARD	W/	WITH
HF	HEM-FIR	WD	WOOD
HGR	HANGER	WHS	WELDED HEADED STUD
HK	HOOK	WL	WATER LINE
HORIZ	HORIZONTAL	W/O	WITHOUT
HP	HIGH POINT	WP	WORK POINT
HSS	HOLLOW STRUCTURAL SECTION	WWF	WELDED WIRE FABRIC

DRAWING LIST: TERMINAL BUILDING AND MAINTENANCE BUILDING

SB00.01	BUILDING STRUCTURAL NOTES	SB05.00	TYPICAL CONCRETE DETAILS
SB00.02	BUILDING STRUCTURAL NOTES	SB05.01	TYPICAL CONCRETE DETAILS
SB00.03	BUILDING STRUCTURAL NOTES, ABBREVIATIONS, AND DRAWING LIST	SB05.02	CONCRETE DETAILS
SB00.04	BUILDING STRUCTURAL SYMBOLS	SB05.03	CONCRETE DETAILS
SB00.05	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS	SB05.04	CONCRETE DETAILS
SB00.06	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS	SB05.05	CONCRETE DETAILS
SB00.07	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS	SB05.06	CONCRETE DETAILS
SB00.08	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS	SB05.07	CONCRETE DETAILS
SB00.09	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS	SB05.50	CONCRETE DETAILS - TOLL PLAZA
SB00.10	LOAD MAPS (TERMINAL BUILDING)	SB05.51	CONCRETE DETAILS - TOLL PLAZA
SB00.11	LOAD MAPS (MAINTENANCE BUILDING)	SB05.52	CONCRETE DETAILS - TOLL PLAZA
SB00.51	BUILDING STRUCTURAL NOTES - TOLL PLAZA	SB05.53	CONCRETE DETAILS - TOLL PLAZA
SB00.52	BUILDING STRUCTURAL NOTES - TOLL PLAZA	SB05.54	CONCRETE DETAILS - TOLL PLAZA
SB00.53	BUILDING STRUCTURAL NOTES, ABBREVS, AND DWG LIST - TOLL PLAZA		
SB00.54	BUILDING STRUCTURAL SYMBOLS - TOLL PLAZA	SB06.00	STEEL COLUMN SCHEDULE/DETAILS
SB00.55	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS - TOLL PLAZA	SB06.01	STEEL COLUMN DETAILS
SB00.56	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS - TOLL PLAZA	SB06.02	STEEL COLUMN BASE PLATE DETAILS
SB00.57	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS - TOLL PLAZA	SB06.03	STEEL COLUMN BASE PLATE DETAILS
SB00.58	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS - TOLL PLAZA	SB06.04	TYPICAL STEEL DETAILS
SB00.59	LOAD MAPS (TOLL PLAZA)	SB06.05	TYPICAL STEEL DETAILS
		SB06.06	TYPICAL STEEL DETAILS
SB02.00	TERMINAL - LEVEL 1 - OVERALL PLAN	SB06.07	TYPICAL STEEL DETAILS
SB02.01	TERMINAL - LEVEL 1 - SECTOR A PLAN	SB06.08	TYPICAL STEEL DETAILS
SB02.02	TERMINAL - LEVEL 1 - SECTOR B PLAN	SB06.09	TYPICAL STEEL DETAILS
SB02.03	TERMINAL - LEVEL 1 - SECTOR C PLAN	SB06.10	STEEL DETAILS - MAINTENANCE BLDG
SB02.04	TERMINAL - LEVEL 1 - SECTOR D & E PLANS	SB06.11	STEEL DETAILS - MAINTENANCE BLDG
SB02.05	TERMINAL - LEVEL 2 - OVERALL PLAN	SB06.12	STEEL DETAILS - MAINTENANCE BLDG
SB02.06	TERMINAL - LEVEL 2 - SECTOR A PLAN	SB06.13	STEEL DETAILS - MAINTENANCE BLDG
SB02.07	TERMINAL - LEVEL 2 - SECTOR B PLAN	SB06.14	VMS SUPPORT FRAME - MAINTENANCE BLDG
SB02.08	TERMINAL - LEVEL 2 - SECTOR C PLAN	SB06.16	STEEL DETAILS - TERMINAL BLDG
SB02.09	TERMINAL - LEVEL 2 - SECTOR D & E PLANS	SB06.17	STEEL DETAILS - TERMINAL BLDG
SB02.10	TERMINAL - ROOF FRAMING - OVERALL PLAN	SB06.18	STEEL DETAILS - TERMINAL BLDG
SB02.11	TERMINAL - ROOF FRAMING - SECTOR A PLAN	SB06.19	PARTIAL HEIGHT WALL DETAILS - TERMINAL BLDG
SB02.12	TERMINAL - ROOF FRAMING - SECTOR B PLAN	SB06.30	STEEL DETAILS - TERMINAL BLDG
SB02.13	TERMINAL - ROOF FRAMING - SECTOR C PLAN	SB06.31	STEEL DETAILS - TERMINAL BLDG
SB02.14	TERMINAL - ROOF DIAPHRAGM - OVERALL PLAN	SB06.32	STEEL DETAILS - TERMINAL BLDG
SB02.15	TERMINAL - ROOF DIAPHRAGM - SECTOR A PLAN	SB06.33	STEEL DETAILS - TERMINAL BLDG
SB02.16	TERMINAL - ROOF DIAPHRAGM - SECTOR B PLAN	SB06.40	STEEL DETAILS - CLADDING SUPPORT
SB02.17	TERMINAL - ROOF DIAPHRAGM - SECTOR C PLAN	SB06.41	STEEL DETAILS - CLADDING SUPPORT
		SB06.42	STEEL DETAILS - CLADDING SUPPORT
SB02.50	TOLL PLAZA - OVERALL PLANS	SB06.43	STEEL DETAILS - CLADDING SUPPORT
SB02.51	TOLL PLAZA - LEVEL 1 - SECTOR F PLAN	SB06.44	STEEL DETAILS - CLADDING SUPPORT
SB02.52	TOLL PLAZA - LEVEL 1 - SECTOR G PLAN	SB06.45	STEEL DETAILS - CLADDING SUPPORT
SB02.53	TOLL PLAZA - INTERMEDIATE ROOF - SECTOR F PLAN	SB06.50	STEEL DETAILS - TOLL PLAZA
SB02.54	TOLL PLAZA - INTERMEDIATE ROOF - SECTOR G PLAN	SB06.51	STEEL COLUMN BASE PLATE DETAILS - TOLL PLAZA
SB02.55	TOLL PLAZA - ROOF - SECTOR F PLAN		
SB02.56	TOLL PLAZA - ROOF - SECTOR G PLAN	SB07.00	TYPICAL WOOD DETAILS
		SB07.01	WOOD DETAILS
SB03.00	PARTIAL PLANS - MAINTENANCE YARD	SB07.02	WOOD DETAILS
SB03.01	PARTIAL PLANS - STAIRS	SB07.03	TYPICAL WOOD DETAILS
SB03.02	PARTIAL PLANS - STAIRS	SB07.50	WOOD DETAILS - TOLL PLAZA
SB03.03	PARTIAL PLANS - STUD WALLS	SB07.51	WOOD DETAILS - TOLL PLAZA
SB03.04	PARTIAL PLANS - BATHROOM FRAMING	SB07.52	WOOD DETAILS - TOLL PLAZA
SB04.00	SHEAR WALL ELEVATIONS	SB08.00	TYPICAL CFS DETAILS
SB04.01	SHEAR WALL ELEVATIONS	SB08.01	CFS DETAILS
SB04.02	SHEAR WALL ELEVATIONS	SB08.50	CFS DETAILS - TOLL PLAZA
SB04.05	CONC SHEAR WALL SECTIONS		
SB04.06	CONC SHEAR WALL SECTIONS	SB09.00	TYPICAL CMU DETAILS
SB04.07	CONC SHEAR WALL DETAILS	SB09.01	TYPICAL CMU DETAILS
SB04.08	CONC WALL ELEVATIONS	SB09.02	TYPICAL CMU DETAILS
SB04.09	CONC WALL ELEVATIONS		
SB04.10	WALL ELEVATIONS - MAINTENANCE BLDG		
SB04.11	GATE ELEVATIONS - MAINTENANCE BLDG		
SB04.50	SHEAR WALL ELEVATIONS - TOLL PLAZA		
SB04.51	WALL ELEVATIONS - TOLL PLAZA		

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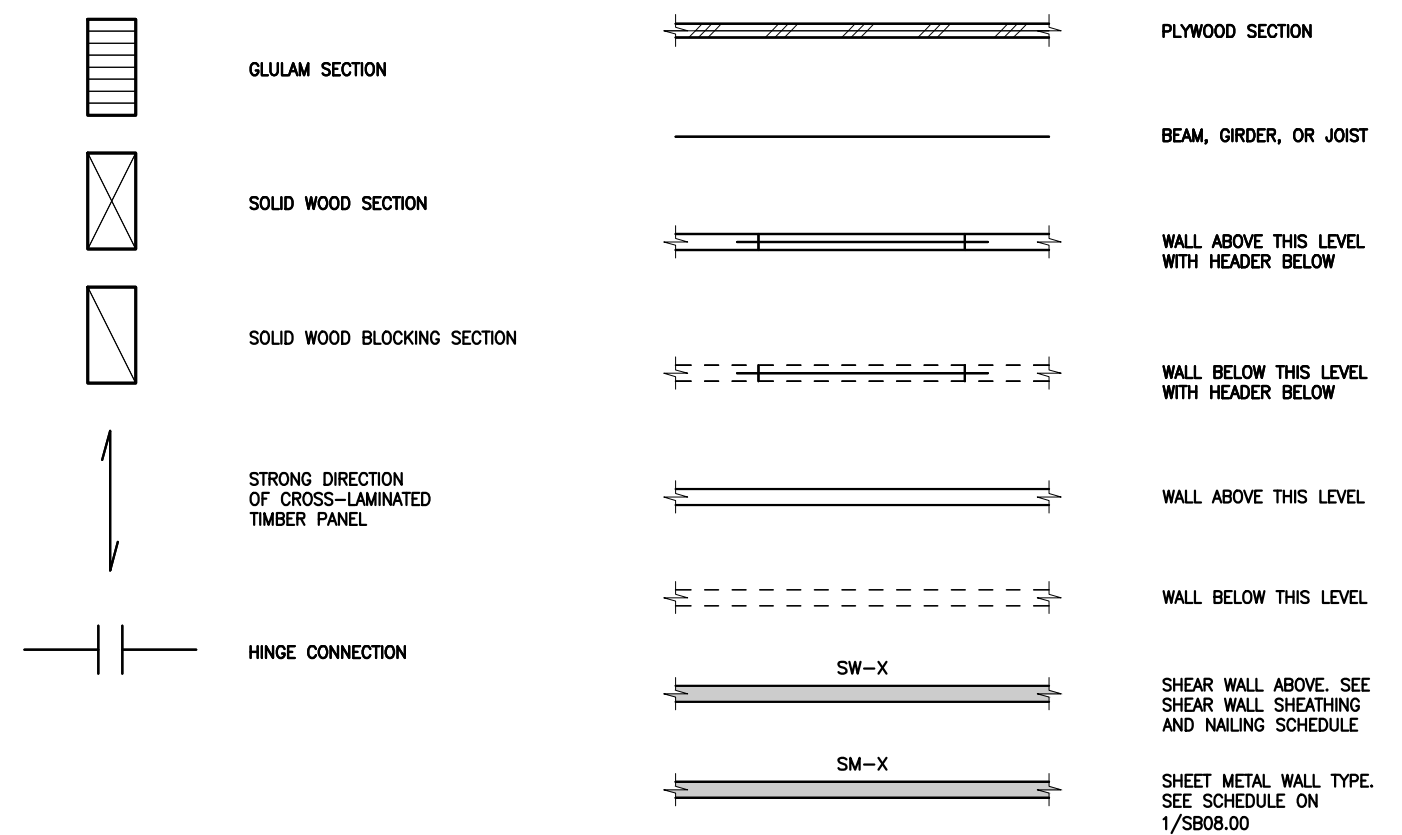
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MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
BUILDING STRUCTURAL NOTES,
ABBREVIATIONS, AND DRAWING LIST

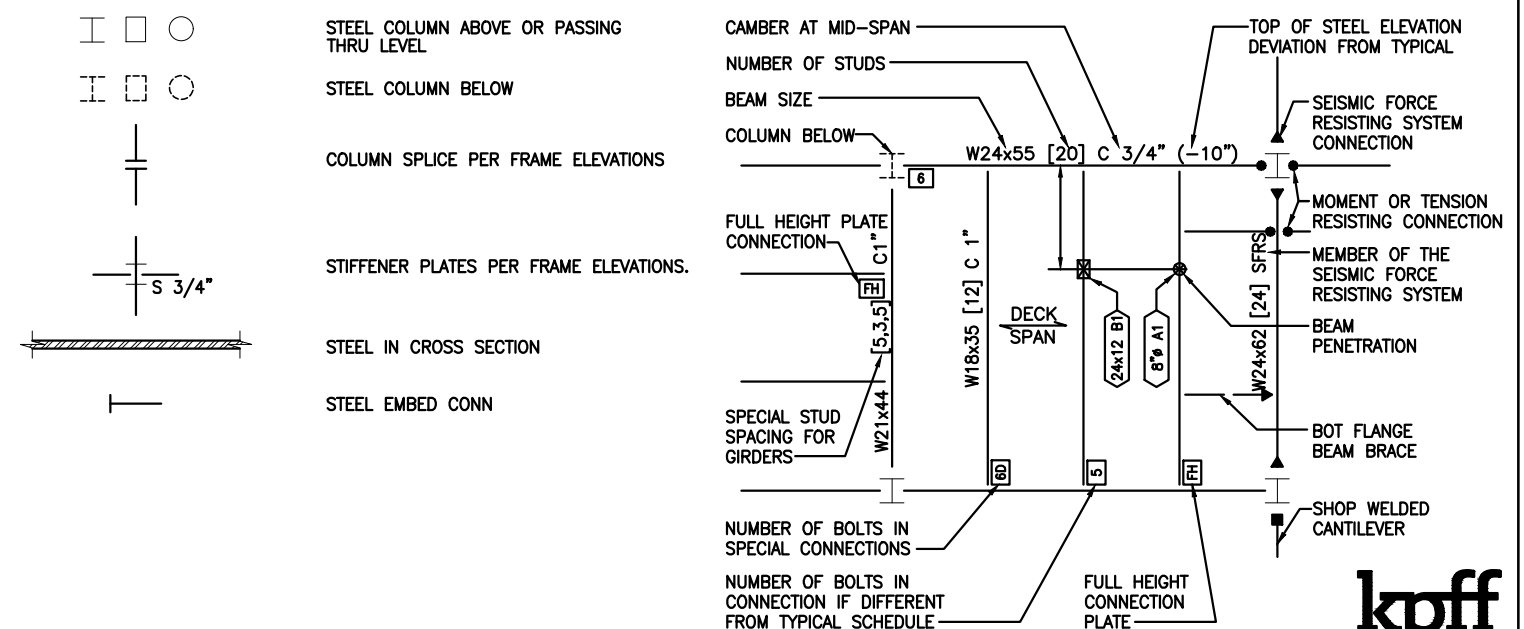
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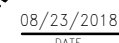
WOOD AND COLD-FORMED STEEL SYMBOLS: TERMINAL BLG AND MAINTENANCE BLDG



STEEL SYMBOLS: TERMINAL BUILDING AND MAINTENANCE BUILDING



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STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING: TERMINAL BUILDING AND MAINTENANCE BUILDING

TABLE 1 – REQUIRED GEOTECHNICAL SPECIAL INSPECTIONS					
SYSTEM or MATERIAL	INSPECTION			REMARKS	
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
SOILS					
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	TB 1705.6 1705.6	GEOTECHNICAL REPORT		X	BY THE GEOTECHNICAL ENGINEER
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.				X	
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.				X	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.			X		
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.				X	

TABLE 2 – REQUIRED STRUCTURAL SPECIAL INSPECTIONS					
SYSTEM or MATERIAL	INSPECTION			REMARKS	
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
FABRICATION					
INSPECTION IN FABRICATION SHOP	1704.2.5				WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE AS REQUIRED BY TABLE 2 AND AS REQUIRED ELSEWHERE IN THE STATEMENT OF SPECIAL INSPECTIONS. REFERENCE SECTION 1704.2.5.2 FOR APPROVED FABRICATOR EXCEPTION.

TABLE 2 CONTINUED – REQUIRED STRUCTURAL SPECIAL INSPECTIONS					
SYSTEM or MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
CONCRETE					
INSPECTION OF REINFORCING STEEL, AND PLACEMENT.	TB 1705.3(1) 1705.3 1910.4	ACI 318 1.3.2 ACI 318 3.5 ACI 318 7.1–7.7		X	TOLERANCE AND REINFORCING PLACEMENT PER ACI 318 7.5
INSPECTION OF REINFORCING STEEL WELDING	TB 1705.3(2) 1705.2.2.1.2	ACI 318 3.5.2 AWS D1.4, SECTION 7			EXCEPT AS NOTED OTHERWISE
MATERIAL VERIFICATION OF WELD FILLER METALS	1705.2.2.1.2	ACI 318 3.5.2 AWS D1.4 SECTION 7		X	MANUFACTURER’S CERTIFIED TEST REPORTS
VERIFYING USE OF PROPER WPS’S				X	COPY OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS				X	COPY OF QUALIFICATION CARDS
VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	TB 1705.2.2 (2.b.1)	AWS D1.4 ACI 318 3.5.2		X	CERTIFIED MILL TEST REPORTS
REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	TB 1705.2.2 (2.b.2)	AWS D1.4 ACI 318 3.5.2	X		ALL WELDS VISUALLY INSPECTED PER AWS D1.4 7.5
SHEAR REINFORCEMENT	TB 1705.2.2 (2.b.3)	AWS D1.4 ACI 318 3.5.2	X		
OTHER REINFORCING STEEL	TB 1705.2.2 (2.b.4)	AWS D1.4 ACI 318 3.5.2		X	
INSPECTION OF ANCHORS CAST IN CONCRETE	WAC 51–50–1705	ACI 318 D.9.2		X	ALL ANCHORS SHALL BE VISUALLY INSPECTED
INSPECTION OF ANCHORS POST–INSTALLED IN HARDENED CONCRETE MEMBERS:					
ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	WAC 51–50–1705	ICC EVALUATION RPT ACI 318 D.9.2.4	X		REFER TO ANCHOR CALLOUTS FOR SUSTAINED TENSION (ST) DESIGNATION
MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE.	WAC 51–50–1705	ICC EVALUATION RPT ACI 318 D.9.2		X (NOTE 7)	ALL ANCHORS SHALL BE VISUALLY INSPECTED
VERIFYING USE OF REQUIRED DESIGN MIX.	TB 1705.3(5) 1705.3 1904 1910.2 1910.3	ACI 318 1.3.2 ACI 318 4 ACI 318 5.2–5.4		X	
AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	TB 1705.3(6) 1910.10	ASTM C 172 ASTM C 31 ACI 318 5.6,5.8	X		
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	TB 1705.3(7) 1705.3 1910.6–8	ACI 318 5.9–5.10	X		
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	TB 1705.3(8) 1705.3 1910.9	ACI 318 1.3.2 ACI 318 5.11–5.13		X	
ERECTION OF PRECAST CONCRETE MEMBERS.	TB 1705.3(10) 1705.3	ACI 318 1.3.2 ACI 318 16		X	ALL CONNECTIONS VISUALLY INSPECTED, REFER TO ANCHOR AND WELDING REQUIREMENTS.
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	TB 1705.3(12) 1705.3	ACI 318 6.1.1, 6.2		X	
REINFORCING STEEL MECHANICAL COUPLERS, TERMINATORS AND FORMSAVERS		ICC EVALUATION REPORTS		X	VISUALLY INSPECT FOR CORRECT ASSEMBLY AND LOCATION

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MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
STATEMENT OF STRUCTURAL
SPECIAL INSPECTIONS

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STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING (CONT): TERMINAL BUILDING AND MAINTENANCE BUILDING

TABLE 2 CONTINUED – REQUIRED STRUCTURAL SPECIAL INSPECTIONS							
SYSTEM OR MATERIAL	INSPECTION				REMARKS		
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)				
			CONTINUOUS	PERIODIC			
MASONRY – LEVEL B							
VERIFY DURING CONSTRUCTION:							
SIZE AND LOCATION OF STRUCTURAL ELEMENTS	1705.4	TMS 602: TB 4(4.a) TMS 602: 3.3 F		X			
TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		TMS 602: TB 4(4.b) TMS 402: 1.16.4.3 TMS 402: 1.17.1		X			
WELDING OF REINFORCEMENT		TMS 602: TB 4(4.c) TMS 402: 2.1.8.7.2 TMS 402: 3.3.3.4(c) TMS 402: 8.3.3.4(b)	X		ALL WELDS VISUALLY INSPECTED PER AWS D1.4: 7.5 REFER TO CONCRETE FOR WELDING REQUIREMENTS		
PREPARATION, CONSTRUCTION, AND PROTECTION DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (ABOVE 90°F)	1705.4 2104.3 2104.4	TMS 602: TB 4(4.d) TMS 602: 1.8 C TMS 602: 1.8 D		X			
PLACEMENT OF GROUT IS IN COMPLIANCE	1705.4	TMS 602: TB 4(4.f) TMS 602: 3.5	X				
OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	1705.4 2105.2.2 2105.3	TMS 602: TB 4(5) TMS 602: 1.4 B		X			
SYSTEM or MATERIAL	INSPECTION				REMARKS		
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY (NOTE 8)				
			OBSERVE	PERFORM			
STEEL							
INSPECTION TASKS PRIOR TO WELDING:							
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	1705.2	AISC 360: TB N5.4–1		X			
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		AISC 360: TB N5.4–1		X			
MATERIAL IDENTIFICATION (TYPE/GRADE)		AISC 360: TB N5.4–1	X				
WELDER IDENTIFICATION SYSTEM		AISC 360: TB N5.4–1	X				
FIT–UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)		AISC 360: TB N5.4–1	X				
CONFIGURATION AND FINISH OF ACCESS HOLES		AISC 360: TB N5.4–1	X				
FIT–UP OF FILLET WELDS: DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)		AISC 360: TB N5.4–1	X				
CHECK WELDING EQUIPMENT		AISC 360: TB N5.4–1		X			
INSPECTION TASKS DURING WELDING:							
USE OF QUALIFIED WELDERS	1705.2	AISC 360: TB N5.4–2	X				
CONTROL AND HANDLING OF WELDING CONSUMABLES: PACKAGING, EXPOSURE CONTROL		AISC 360: TB N5.4–2	X				
NO WELDING OVER CRACKED TACK WELDS		AISC 360: TB N5.4–2	X				
ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE		AISC 360: TB N5.4–2	X				

TABLE 2 CONTINUED – REQUIRED STRUCTURAL SPECIAL INSPECTIONS					
SYSTEM or MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY (NOTE 8)		
			OBSERVE	PERFORM	
STEEL CONTINUED					
INSPECTION TASKS DURING WELDING (CONT):					
WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.), PROPER POSITION (F, V, H, OH)	1705.2	AISC 360: TB N5.4–2	X		
WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS		AISC 360: TB N5.4–2	X		
INSPECTION TASKS PRIOR TO BOLTING:					
MANUFACTURER’S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	1705.2	AISC 360: TB N5.6–1		X	
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		AISC 360: TB N5.6–1	X		
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		AISC 360: TB N5.6–1	X		
PROPER BOLTING PROCEDURE FOR JOINT DETAIL		AISC 360: TB N5.6–1	X		
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		AISC 360: TB N5.6–1	X		
PRE–INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		AISC 360: TB N5.6–1	X		
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		AISC 360: TB N5.6–1	X		
INSPECTION TASKS DURING BOLTING:					
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	1705.2	AISC 360: TB N5.6–2	X		
JOINT BROUGHT TO SNUG–TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		AISC 360: TB N5.6–2	X		
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		AISC 360: TB N5.6–2	X		
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		AISC 360: TB N5.6–2	X		
INSPECTION TASKS AFTER BOLTING:					
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	1705.2	AISC 360: TB N5.6–3		X	
INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT					
PLACEMENT AND INSTALLATION OF STEEL DECK	1705.2	AISC 360: TB N6.1		X	
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS		AISC 360: TB N6.1		X	
DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS		AISC 360: TB N6.1		X	

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STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING (CONT): TERMINAL BUILDING AND MAINTENANCE BUILDING

TABLE 2 CONTINUED – REQUIRED STRUCTURAL SPECIAL INSPECTIONS					
SYSTEM or MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
COLD–FORMED STEEL FRAMING					
MATERIAL VERIFICATION OF WELD FILLER METALS	1705.2.2.1.1 1705.2.2.1	AWS D1.3: 6		X	MANUFACTURER’S CERTIFIED TEST REPORTS
VERIFYING USE OF PROPER WPS’S				X	COPY OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS				X	COPY OF QUALIFICATION CARDS
WELDED FRAMING CONNECTIONS		AWS D1.3: 6		X	ALL WELDS VISUALLY INSPECTED PER AWS D1.3: 6.1
WOOD					
FABRICATION OF PREFABRICATED STRUCTURAL ELEMENTS	1704.2.5			X	REFER TO INSPECTION IN FABRICATION SHOP REQUIREMENTS
FABRICATION OF HIGH–LOAD DIAPHRAGMS	AF&PA SDPWS TB 4.2 1705.5.1 2306.2			X	VERIFY STRUCTURAL PANEL GRADE AND THICKNESS. VERIFY NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES. VERIFY NAIL OR STAPLE DIAMETER AND LENGTH, NUMBER OF FASTENER LINES AND SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS

TABLE 2A – REQUIRED STRUCTURAL SPECIAL INSPECTIONS for SEISMIC RESISTANCE					
SYSTEM or MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
GENERAL					
SEISMIC FORCE–RESISTING SYSTEMS (SFRS) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F	1704.3.2 1705.11		X		REFERENCE GENERAL STRUCTURAL NOTES FOR OUTLINE OF SFRS SYSTEM. REFERENCE TABLE 2A FOR MATERIAL SPECIFIC INSPECTION REQUIREMENTS.
DESIGNATED SEISMIC SYSTEMS (SECONDARY) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F			X		REFERENCE TABLE N1 AND N2 FOR INSPECTION REQUIREMENTS
CONCRETE					
MATERIAL VERIFICATION OF REINFORCING STEEL USED IN MOMENT RESISTING FRAMES AND SHEAR WALL BOUNDARY ELEMENTS	1705.12.1			X	CERTIFIED MILL TEST REPORTS
REINFORCING STEEL AND CONCRETE PLACEMENT IN SPECIAL MOMENT RESISTING FRAMES	1705.11	ACI 318 1.3.5	X		
STEEL					
SYSTEM or MATERIAL	INSPECTION				
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY (NOTE 8)		
			OBSERVE	PERFORM	
VISUAL INSPECTION TASKS AFTER WELDING:					
PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)	1705.11.1	AISC 341: TB J6–3		X	
INSPECTION OF COMPOSITE STRUCTURES PRIOR TO CONCRETE PLACEMENT:					
MATERIAL IDENTIFICATION OF REINFORCING STEEL (TYPE/GRADE)	1705.11.1	AISC 341: TB J9–1			

TABLE 2A CONTINUED – REQUIRED STRUCTURAL SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE						
SYSTEM or MATERIAL	INSPECTION				REMARKS	
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY (NOTE 6)			
			CONTINUOUS	PERIODIC		
STEEL CONTINUED						
INSPECTION OF COMPOSITE STRUCTURES PRIOR TO CONCRETE PLACEMENT (CONT):						
DETERMINATION OF CARBON EQUIVALENT FOR REINFORCING STEEL OTHER THAN ASTM A706	1705.11.1	AISC 341: TB J9–1	X			
PROPER REINFORCING STEEL SIZE, SPACING AND ORIENTATION		AISC 341: TB J9–1	X			
REINFORCING STEEL HAS NOT BEEN REBENT IN THE FIELD		AISC 341: TB J9–1	X			
REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED		AISC 341: TB J9–1	X			
REQUIRED REINFORCING STEEL CLEARANCES HAVE BEEN PROVIDED		AISC 341: TB J9–1	X			
COMPOSITE MEMBER HAS REQUIRED SIZE		AISC 341: TB J9–1	X			
INSPECTION OF COMPOSITE STRUCTURES DURING CONCRETE PLACEMENT:						
CONCRETE: MATERIAL IDENTIFICATION (MIX DESIGN, COMPRESSIVE STRENGTH, MAXIMUM LARGE AGGREGATE SIZE, MAXIMUM SLUMP)	1705.11.1	AISC 341: TB J9–2	X			
LIMITS ON WATER ADDED AT THE TRUCK OR PUMP		AISC 341: TB J9–2	X			
PROPER PLACEMENT TECHNIQUES TO LIMIT SEGREGATION		AISC 341: TB J9–2	X			
INSPECTION OF COMPOSITE STRUCTURES AFTER CONCRETE PLACEMENT:						
ACHIEVEMENT OF MINIMUM SPECIFIED CONCRETE COMPRESSIVE STRENGTH AT SPECIFIED AGE	1705.11.1	AISC 341: TB J9–1				
COLD–FORMED STEEL FRAMING						
CONNECTIONS FOR DIAPHRAGM ATTACHMENT, DIAPHRAGM CHORDS, COLLECTORS, BRACING, AND SHEAR WALL ANCHORAGE AND HOLDOWNS	1705.11.3			X	ALL CONNECTIONS VISUALLY INSPECTED	
WOOD						
CONNECTIONS FOR DIAPHRAGM CHORDS, COLLECTORS, BRACING, AND SHEAR WALL ANCHORAGE AND HOLDOWNS	1705.11.2			X	ALL FASTENERS/CONNECTIONS VISUALLY INSPECTED NOT REQUIRED IF SHEATHING IS GYPSUM OR FIBER BOARD. NOT REQUIRED FOR WOOD PANEL OR STEEL SHEET ON ONE SIDE ONLY WITH FASTENER SPACING GREATER THAN 4" ON CENTER.	

TABLE 2B – REQUIRED STRUCTURAL SPECIAL INSPECTIONS FOR WIND RESISTANCE					
SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
GENERAL					
ROOF CLADDING AND WALL CLADDING	1705.10.3			X	
COLD–FORMED STEEL FRAMING					
CONNECTIONS FOR DIAPHRAGM ATTACHMENT, DIAPHRAGM CHORDS, COLLECTORS, BRACING, AND SHEAR WALL SHEATHING, ANCHORAGE AND HOLD–DOWNS	1705.10.2			X	ALL CONNECTIONS VISUALLY INSPECTED. NOT REQUIRED IF SHEATHING IS GYPSUM BOARD, FIBERBOARD, OR IF SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEET ON ONLY ONE SIDE AND FASTENER SPACING IS MORE THAN 4 INCHES ON CENTER
WOOD					
CONNECTIONS FOR DIAPHRAGM CHORDS, COLLECTORS, BRACING, AND SHEAR WALL ANCHORAGE AND HOLD–DOWNS	1705.10.1			X	ALL CONNECTIONS VISUALLY INSPECTED

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DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
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FERRY TERMINAL CONSTRUCTION
STATEMENT OF STRUCTURAL
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STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING (CONT): TERMINAL BUILDING AND MAINTENANCE BUILDING

TABLE 2C – REQUIRED STRUCTURAL INSPECTIONS for SPECIAL CASES					
SYSTEM or MATERIAL	INSPECTION			REMARKS	
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
PRE–ENGINEERED STRUCTURES					
FABRICATION AND ERECTION OF PREFABRICATED STAIRS	1705.1.1	MBMA			REFER TO TABLE 2 FOR FABRICATOR, WELDING, AND HIGH STRENGTH BOLTING SPECIAL INSPECTION REQUIREMENTS AND TABLES 3 AND 4 FOR MATERIAL SPECIFIC TESTING REQUIREMENTS. REFER TO DEFERRED SUBMITTAL FOR ADDITIONAL INFORMATION.

TABLE 3 – REQUIRED STRUCTURAL TESTING					
SYSTEM or MATERIAL	TESTING				REMARKS
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY		
			CONTINUOUS	PERIODIC	
GEOTECHNICAL					
FILL IN–PLACE DENSITY OR PREPARED SUBGRADE DENSITY	1705.6	VARIABLE; MINIMUM PER IBC APPENDIX J107.5		X	BY THE GEOTECHNICAL ENGINEER
MATERIAL VERIFICATION		VARIABLE; CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		X	BY THE GEOTECHNICAL ENGINEER
CONCRETE					
COMPOSITE SAMPLES	1903 1705.3	ASTM C172 ACI 318 5.6	EA 150 CY ONE SET PER DAY MIN	OBTAIN WHEN FRESH CONCRETE IS PLACED FOR EACH MIX DESIGN USED	
CONCRETE STRENGTH		ASTM C39	2 CYL – 7 DAYS 2 CYL – 28 DAYS		
CONCRETE SLUMP		ASTM C143	ONE TEST PER COMPOSITE SAMPLE	AT POINT OF PLACEMENT	
CONCRETE AIR CONTENT		ASTM C231	ONE TEST PER COMPOSITE SAMPLE	MIN ONE PER DAY	
CONCRETE TEMPERATURE		ASTM C1064	ONE TEST PER COMPOSITE SAMPLE	ONE TEST PER HOUR WHEN AIR TEMP IS BELOW 40 DEG F OR ABOVE 80 DEG F	
MASONRY					
PRISM TEST METHOD	2105.2.2.2	ASTM C 1314	TESTING EVERY 5,000 SQ FT		
STEEL					
RADIOGRAPHIC (RT) MAGNETIC PARTICLE (MT) AND ULTRASONIC (UT) TESTING OF WELDS	AISC 360 5.0	RT– AWS D1.1 6.16 MT– AWS D1.1 6.14.4 UT– AWS D1.1 6.13 & 6.14.3	PER DRAWINGS	ALL CJP WELDS REQUIRE UT TESTING	
PRE–CONSTRUCTION TESTING OF WELDED STUDS	1705.2.2.1	AWS D1.1 7.7.1	EACH SIZE AND TYPE OF STUD EACH SHIFT		
PRE–INSTALLATION TESTING OF WELDED STUDS WELDED THROUGH DECKING	1705.2.2.1	AWS D1.1 7.6	EACH STUD SIZE AND DECK GAUGE COMBINATION		
PRE–INSTALLATION VERIFICATION OF PRETENSIONED HIGH STRENGTH BOLTS	1705.2.1 AISC 360: TB N5.6–1	RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH–STRENGTH BOLTS, SECTION 7	EACH COMBINATION OF DIAMETER, LENGTH, GRADE, AND LOT TO BE USED IN THE WORK		

TABLE 4 – REQUIRED STRUCTURAL TESTING for SEISMIC RESISTANCE				
SYSTEM or MATERIAL	TESTING			REMARKS
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY	
CONCRETE REINFORCEMENT				
TEST A615 REINFORCEMENT IN SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS, AND COUPLING BEAMS CONNECTING SPECIAL STRUCTURAL WALLS	1705.12.1 1705.11.1	ACI 318: 21.1.5.2		NOT REQUIRED IN SDC A OR WHEN CERTIFIED MILL TEST REPORTS ARE PROVIDED. REFER TO DRAWINGS FOR LOCATIONS.
TEST A615 REINFORCEMENT FOR WELDABILITY WHEN SUCH REINFORCEMENT IS TO BE WELDED	1705.12.1 1705.11(1)	ACI 318: 3.5.2		
STEEL				
MT OF K–AREA OF ROLLED WIDE FLANGE COLUMN WEBS ADJACENT TO DOUBLER/CONTINUITY PLATE WELDS	1705.12.2	AISC 341 J6.2a AWS D1.1 6.14.4	EACH PLATE LOCATION	
MAGNETIC PARTICLE (MT) AND ULTRASONIC (UT) TESTING OF COMPLETE JOINT PENETRATION GROOVE (CJP) WELDS IN MATERIALS 5/16" THICK AND GREATER		AISC 341 J6.2b MT – AWS D1.1 6.14.4 UT – AWS D1.1 6.13 & 6.14.3	UT 100% OF WELDS MT 25% OF WELDS	REFER TO DRAWINGS FOR LOCATIONS
UT OF BASE METAL THICKER THAN 1–1/2" SUBJECT TO THROUGH–THICKNESS WELD SHRINKAGE STRAINS		AISC 341 J6.2c AWS D1.1 6.13 & 6.14.3	BEHIND AND ADJACENT TO EACH WELD	
MT OF THERMALLY CUT SURFACES OF BEAM COPEES AND ACCESS HOLES AT WELDED SPLICES AND CONNECTIONS WHEN THE FLANGE THICKNESS EXCEEDS 1–1/2" FOR ROLLED SHAPES OR THE WEB THICKNESS EXCEEDS 1–1/2" FOR BUILT–UP SHAPES		AISC 341 J6.2d AWS D1.1 6.14.4	EACH LOCATION	
MT OF THE ENDS OF FLANGE WELDS FROM WHICH WELD TABS HAVE BEEN REMOVED		AISC 341 J6.2f AWS D1.1 6.14.4	EACH LOCATION	

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FERRY TERMINAL CONSTRUCTION
STATEMENT OF STRUCTURAL
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STATEMENT OF SPECIAL INSPECTIONS FOR NON-STRUCTURAL SPECIAL INSPECTIONS AND TESTING: TERMINAL BUILDING AND MAINTENANCE BUILDING

TABLE N2 – REQUIRED NON-STRUCTURAL SPECIAL INSPECTIONS for SEISMIC RESISTANCE					
SYSTEM or MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY		
			CONTINUOUS	PERIODIC	
ARCHITECTURAL					
INSTALLATION AND ANCHORAGE OF CLADDING AND INTERIOR/EXTERIOR VENEER WEIGHING MORE THAN 5 PSF IN BUILDINGS MORE THAN 30 FEET IN HEIGHT	1704.3.2 1705.11.5			X	REFERENCE ARCHITECTURAL FOR INFORMATION
ERECTION AND FASTENING OF INTERIOR NONBEARING WALLS WEIGHING MORE THAN 15 PSF IN BUILDINGS MORE THAN 30 FEET IN HEIGHT	1704.3.2 1705.11.5			X	
ERECTION AND FASTENING OF EXTERIOR NON-BEARING WALLS IN BUILDINGS MORE THAN 30 FEET IN HEIGHT	1704.3.2 1705.11.5			X	
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED ARCHITECTURAL SYSTEMS AND THEIR COMPONENTS	1704.3.2 1705.11.5			X	REFERENCE ARCHITECTURAL FOR INFORMATION
ELECTRICAL					
ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS	1704.3.2 1705.11.6			X	SEISMIC RESTRAINT OF ELECTRICAL COMPONENTS IS A CONTRACTOR RESPONSIBILITY AND IS LISTED HERE FOR INFORMATION ONLY. REFERENCE ELECTRICAL FOR FURTHER INFORMATION.
ANCHORAGE OF ALL ELECTRICAL EQUIPMENT IN SDC E OR F ONLY				X	
INSTALLATION OF VIBRATION ISOLATION SYSTEMS IN STRUCTURES ASSIGNED TO SDC C, D, E OR F WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 0.25 INCHES OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT	1705.11.6 1705.11.8			X	
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED ELECTRICAL SYSTEMS AND THEIR COMPONENTS	1705.11.6			X	
BUILDING MECHANICAL					
INSTALLATION AND ANCHORAGE OF HVAC DUCTWORK DESIGNED TO CARRY HAZARDOUS MATERIALS	1704.3.2 1705.11.6			X	SEISMIC RESTRAINT OF BUILDING MECHANICAL COMPONENTS IS A CONTRACTOR RESPONSIBILITY AND IS LISTED HERE FOR INFORMATION ONLY. REFERENCE MECHANICAL FOR FURTHER INFORMATION.
INSTALLATION OF FIRE PROTECTION SPRINKLER SYSTEM	1705.11			X	
INSTALLATION OF EQUIPMENT USING COMBUSTIBLE ENERGY SOURCES	1705.11.4			X	
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED MECHANICAL SYSTEMS AND THEIR COMPONENTS	1705.11.4			X	
INSTALLATION OF VIBRATION ISOLATION SYSTEMS IN STRUCTURES ASSIGNED TO SDC C, D, E OR F WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 0.25 INCHES OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT	1705.11.6			X	

TABLE N4 – REQUIRED NON-STRUCTURAL TESTING for SEISMIC RESISTANCE					
SYSTEM or MATERIAL	TESTING				REMARKS
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY		
MECHANICAL AND ELECTRICAL					
COMPONENT TESTING INCLUDING MOUNTING SYSTEMS OR ANCHORAGE IF CERTIFICATES OF COMPLIANCE ARE NOT AVAILABLE	1705.12.3 1705.12	ASCE 7: 13.2		X	SEISMIC RESTRAINT OF MECHANICAL AND ELECTRICAL COMPONENTS IS A CONTRACTOR RESPONSIBILITY AND IS LISTED HERE FOR INFORMATION ONLY. REFERENCE MECHANICAL AND ELECTRICAL FOR FURTHER INFORMATION.

STATEMENT OF SPECIAL INSPECTION AND TESTING NOTES:

1. SPECIAL INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (IBC). REFER TO TABLES 1 AND 2 FOR SPECIAL INSPECTION AND TABLES 3 AND 4 FOR TESTING REQUIREMENTS.
2. REFERENCE CODES AND STANDARDS ARE AS FOLLOWS:

IBC – 2012

ACI – 318–11

AWS – CURRENT EDITION

ASTM – CURRENT EDITION

AISC – 360–10

– 341–10

RCSC – 2009

TMS – 402–11, 602–11
3. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY MEETING THE REQUIREMENTS OF ASTM E329 (MATERIALS), ASTM D3740 (SOILS), ASTM C1077 (CONCRETE), ASTM A880 (STEEL), AND ASTM E543 (NON-DESTRUCTIVE). THE INSPECTION AND TESTING AGENCY SHALL FURNISH TO THE STRUCTURAL ENGINEER AND OWNER A COPY OF THEIR SCOPE OF ACCREDITATION. SPECIAL INSPECTORS SHALL BE CERTIFIED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1.1 OF AWS D1.1. [WABO]
4. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS. ISSUES REQUIRING IMMEDIATE CORRECTIVE ACTIONS OR ENGINEERING INPUT ARE TO BE BROUGHT TO THE ENGINEER’S ATTENTION IMMEDIATELY UPON DISCOVERY.
5. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER, CONTRACTOR, AND OWNER. THE SPECIAL INSPECTION AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.
6. CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
7. WHERE PERIODIC INSPECTION IS ALLOWED IN ACCORDANCE WITH THE ANCHOR ICC EVALUATION REPORT, INSPECTIONS SHALL BE AS FOLLOWS:

• FOR ALL ANCHORS, PRIOR TO CONCEALMENT, VERIFY: ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR SPACING AND EDGE DISTANCE.

• FOR EACH ANCHOR TYPE AND SIZE, INSPECTOR SHALL BE ONSITE TO CONTINUOUSLY INSPECT A MINIMUM OF THE FIRST 10 ANCHORS INSTALLED BY EACH INSTALLER FOR CONFORMANCE WITH ICC EVALUATION REPORT. PROVIDED ALL ANCHORS ARE INSTALLED CORRECTLY PER MANUFACTURER’S INSTRUCTIONS, PROVIDE PERIODIC INSPECTION ON A MINIMUM OF 10% OF THE NEXT 1000 ANCHORS BY EACH INSTALLER AND A MINIMUM OF 5% OF THE REMAINING ANCHORS BY EACH INSTALLER INSPECTIONS SHALL OCCUR A MINIMUM OF ONCE PER WEEK AT A RANDOM TIME WHILE ANCHOR INSTALLATION IS ONGOING. ANY NON-COMPLIANCE ISSUES SHALL RESET THE INSPECTION REQUIREMENTS TO TEN (10) CONTINUOUS INSPECTIONS. NON-COMPLIANT ANCHORS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD FOR REVIEW AND SHALL BE BROUGHT INTO COMPLIANCE BY EITHER TESTING OR RE-INSTALLATION.

• INSPECTION REPORTS SHALL IDENTIFY NAMES OF INSTALLERS.

SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTATION AT THE END OF ANCHOR INSTALLATIONS STATING THAT THE MINIMUM NUMBER OF ANCHORS WERE INSPECTED.
8. OBSERVE: OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM: PERFORM THESE TASKS FOR EACH ELEMENT.

CONTRACTOR RESPONSIBILITY:

FOR SEISMIC DESIGN CATEGORY C, D, E AND F STRUCTURES, THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND-OR SEISMIC-FORCE-RESISTING SYSTEM, OR A WIND-OR SEISMIC-RESISTING COMPONENT LISTED IN TABLES 2C, 3 AND 4. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR’S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR’S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

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MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

STATEMENT OF STRUCTURAL
SPECIAL INSPECTIONS

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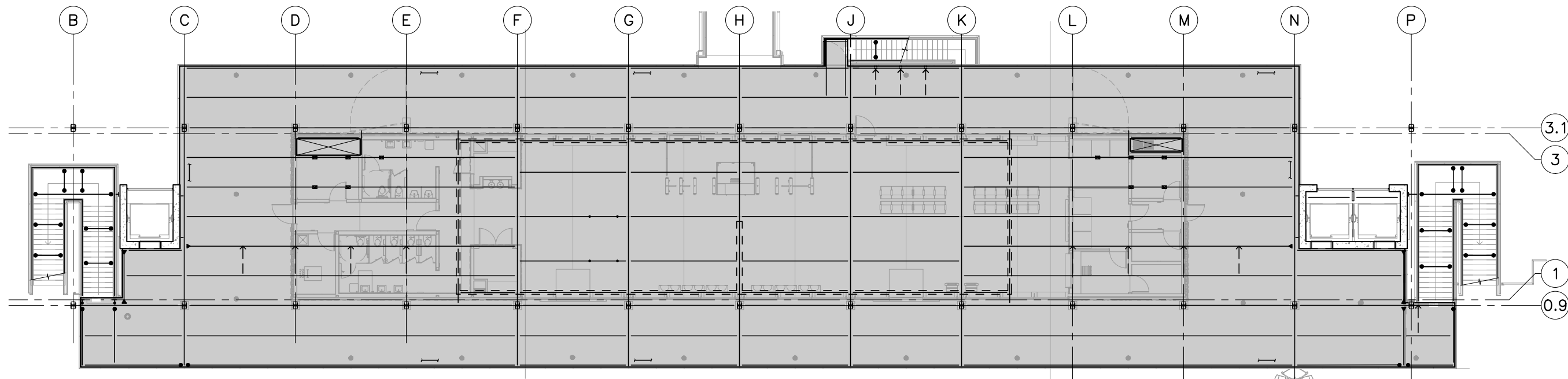
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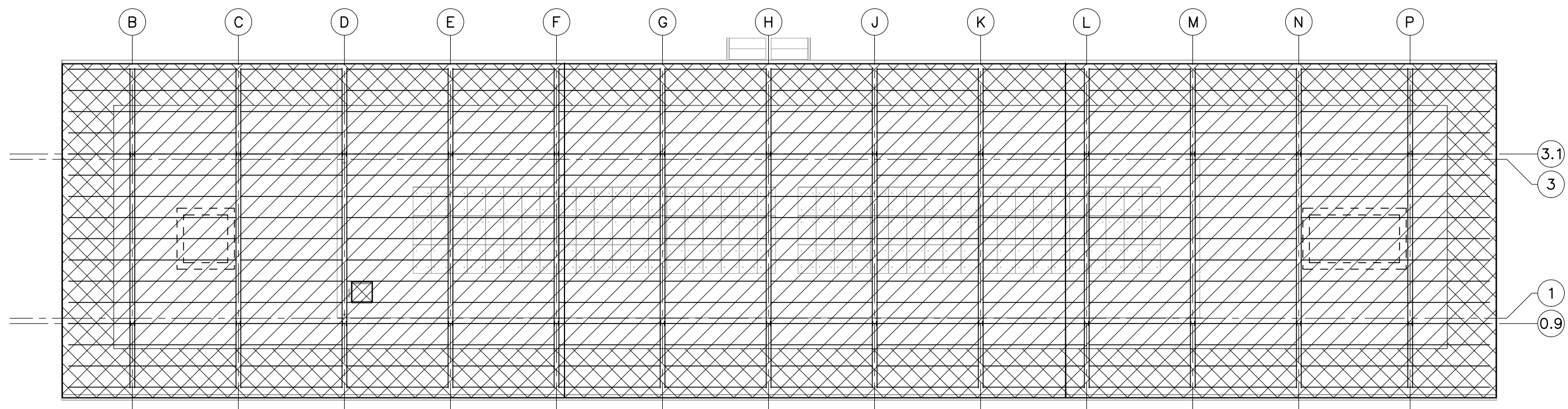
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TERMINAL — LEVEL 2 LOAD MAP

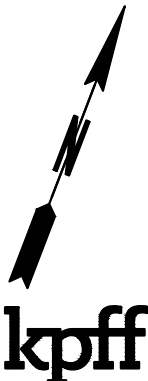
LIVE LOAD = 100 psf (UNREDUCIBLE)
 SUPERIMPOSED DEAD LOAD = 60 psf



TERMINAL — ROOF LOAD MAP

ROOF LIVE LOAD = 20 psf
 SNOW LOAD = 25 psf
 SUPERIMPOSED DEAD LOAD = 7 psf

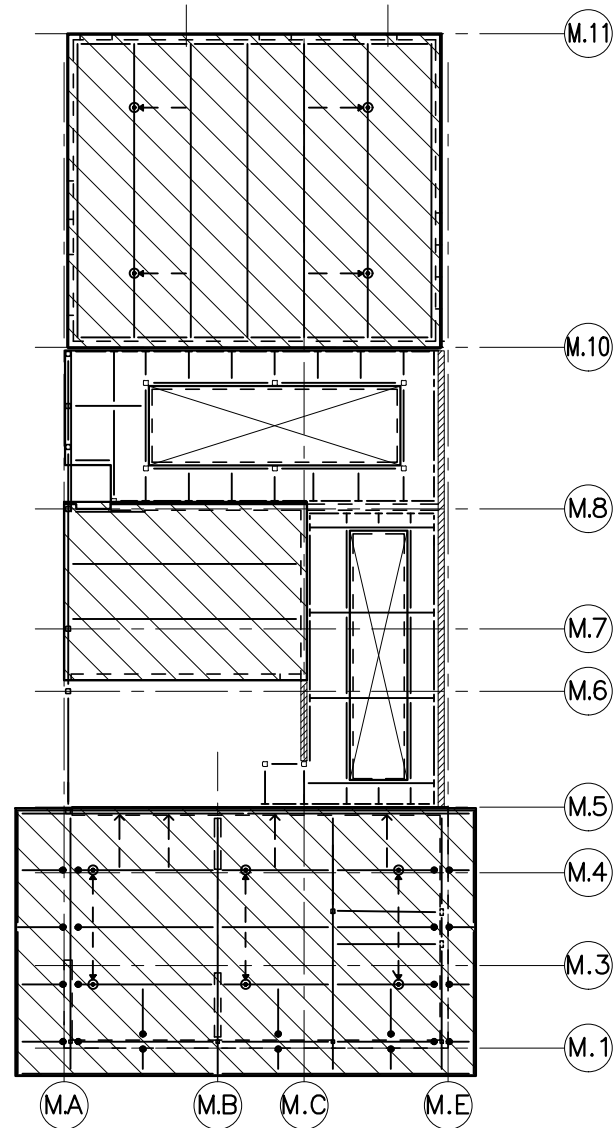
ROOF LIVE LOAD = 20 psf
 SNOW LOAD = 25 psf
 SUPERIMPOSED DEAD LOAD = 13 psf
 (INCLUDES 6 psf FOR PV PANELS)



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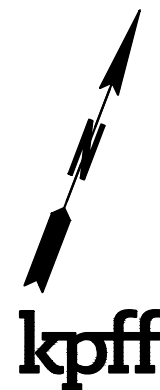
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ROOF LIVE LOAD = 20 psf
SNOW LOAD = 25 psf
SUPERIMPOSED DEAD LOAD = 18 psf

MAINTENANCE — ROOF LOAD MAP



File: U:\14000-114350\114177 (Mukilteo Ferry Terminal)\01 General Notes\14W121SB00_11.dwg
Plotted: 9/21/18 at 2:37pm By: DianeL

FILE NAME: 14W121SB00_11.dwg				FED.AID PROJ.NO.			
PRINTED: 2:37:48 PM 9/21/2018				WA-2017-007-00			
SUBMITTAL DATE: 08/23/2018				REGION NO. STATE			
DESIGNED BY: A. RADKE				10 WASH			
ENTERED BY: B. RONIA				JOB NUMBER			
CHECKED BY: A. EWING				18W121			
MAR PROJ ENGR C. TORRES				CONTRACT NO.			
DIR TERM ENGR: N. MCINTOSH				00****			
ASST SECRETARY: A. SCARTON				REVISION			
				DATE			
				BY			

DATE



08/23/2018
DATE



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
LOAD MAPS
(MAINTENANCE BUILDING)

SB00.11
SHEET
1092
OF
1521
SHEETS

BUILDING STRUCTURAL NOTES: TOLL PLAZA STRUCTURES

DESIGN LOADS

ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION, AS AMENDED BY THE CITY OF MUKILTEO.

LIVE LOADS: IN ADDITION TO THE DEAD LOADS, THE FOLLOWING FLOOR LIVE LOADS WERE USED FOR DESIGN. LIVE LOAD REDUCTION IS PER IBC SECTION 1607.10.

		REDUCIBLE	UNREDUCIBLE
CORRIDORS, STAIRS	100 PSF	X	
SIDEWALKS, DRIVEWAYS	250 PSF		X
OFFICES	50 PSF + 15 PSF PARTITION LOAD	X	
HEAVY STORAGE	250 PSF		X

REFER TO TABLE 1607.1 IN THE IBC FOR RELEVANT CONCENTRATED LIVE LOADS.

ROOF SNOW LOAD: THE ROOF SNOW LOAD IS DETERMINED USING CHAPTER 7 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1608 AND WITH SEAW WHITE PAPER 1–2009:

MINIMUM DESIGN LOAD	25 PSF WITHOUT DRIFT
---------------------	----------------------

SEISMIC LOADS: THE SEISMIC FORCE RESISTING SYSTEMS (SFRS) USED TO RESIST EARTHQUAKE AND WIND LOADS IS COMPRISED OF SPECIAL REINFORCED CONCRETE SHEAR WALLS DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE". EARTHQUAKE DESIGN IS BASED ON THE EQUIVALENT LATERAL FORCE PROCEDURE IN ASCE 7 SECTION 12.8 WITH THE FOLLOWING FACTORS:

SITE CLASS D

RISK CATEGORY II (PER WSF TDM-2014)

SEISMIC DESIGN CATEGORY D

RESPONSE SPECTRUM PARAMETERS
(SEE GEOTECHNICAL REPORT BY HART CROWSER DATED 08/28/17)

$S_s = 1.47\text{ G}$
 $S_1 = 0.57\text{ G}$
 $S_{DS} = 0.98\text{ G}$
 $S_{D1} = 0.57\text{ G}$
 $T_L = 6.0\text{ SECONDS}$

TOLL PLAZA - R = 6.0

$h_n = 21\text{ FT}$ $I_E = 1.0$
 $T = 0.20\text{ SECONDS}$ $C_s = 0.163$

V = BASE SHEAR = 19 KIPS

WIND LOADS: WIND LOAD IS DETERMINED USING CHAPTERS 26–31 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1609 WITH THE FOLLOWING FACTORS:

RISK CATEGORY III	K _{zt} = 1.0
EXPOSURE CATEGORY D	GC _{pi} = 0.18
V _{ult} = 115 MPH	V _{oad} = 89 MPH

DESIGN WIND PRESSURES FOR DETERMINING FORCES ON COMPONENTS AND CLADDING SHALL BE DETERMINED USING CHAPTER 30 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1609 BY THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN OF SUCH ELEMENTS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

STORY DRIFTS: THE MAXIMUM LATERAL DISPLACEMENTS WITH RESPECT TO THE LEVEL BELOW (STORY DRIFTS) ARE AS FOLLOWS:

SEISMIC:
TOLL PLAZA – CANOPY BUILDING
INELASTIC STORY DRIFT = 0.5% OF STORY HEIGHT
ELASTIC STORY DRIFT = INELASTIC STORY DRIFT DIVIDED BY CD/I _E , WHERE CD/I _E = 5
WIND:
TOLL PLAZA – STORY DRIFT = 0.2% OF STORY HEIGHT

<u>SOIL LOADS:</u>	
ALLOWABLE SOIL-BEARING PRESSURE	2000 PSF DL + LL
	2660 PSF DL + LL + SEISMIC/WIND

GENERAL NOTES

SUBMITTALS: SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO ANY FABRICATION OR CONSTRUCTION FOR ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING: CONCRETE REINFORCEMENT, EMBEDDED STEEL ITEMS, STRUCTURAL STEEL, GLUED–LAMINATED MEMBERS, AND CLADDING PANELS.

IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN.

DEFERRED SUBMITTALS: PER IBC SECTION 107.3.4.1, DRAWINGS AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN AND SHALL BE SUBMITTED TO THE ARCHITECT AND THE BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATION. SUBMITTED CALCULATIONS ARE FOR CURSORY REVIEW ONLY AND WILL GENERALLY NOT BE RETURNED. DEFERRED SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

EXTERIOR CLADDING SYSTEMS
EQUIPMENT ANCHORAGE
SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS
INTERIOR NON–BEARING COLD–FORMED STEEL FRAMING

NONSTRUCTURAL COMPONENTS: DESIGN, DETAILING AND ANCHORAGE OF ALL NONSTRUCTURAL COMPONENTS SHALL BE IN ACCORDANCE WITH IBC SECTION 1613, ASCE 7 CHAPTER 13, AND THE PROJECT SPECIFICATIONS. NONSTRUCTURAL COMPONENTS DESIGNED BY OTHERS SHALL NOT INDUCE TORSIONAL LOADING INTO SUPPORTING STEEL STRUCTURAL MEMBERS WITHOUT ADDITIONAL BRACING OF THOSE MEMBERS TO ELIMINATE TORSIONAL FORCES. TORSIONAL BRACING SHALL BE DESIGNED BY THE NONSTRUCTURAL COMPONENT DESIGNER AND APPROVED BY THE ENGINEER.

CLADDING: CLADDING DESIGNED BY OTHERS SHALL BE SUPPORTED AT EACH STORY TO BE CONSISTENT WITH THE DESIGN OF THE BUILDING STRUCTURE. CLADDING DESIGNED BY OTHERS SHALL NOT INDUCE TORSIONAL LOADING INTO SUPPORTING STEEL STRUCTURAL MEMBERS WITHOUT ADDITIONAL BRACING OF THOSE MEMBERS TO ELIMINATE TORSIONAL FORCES, UNLESS OTHERWISE APPROVED BY THE ARCHITECT. TORSIONAL BRACING SHALL BE DESIGNED BY THE CLADDING DESIGNER AND APPROVED BY THE ENGINEER.

INSPECTION: SPECIAL INSPECTION PER IBC CHAPTER 17 SHALL BE PERFORMED BY AN APPROVED TESTING AGENCY AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS AND TESTING. ALL PREPARED SOIL–BEARING SURFACES SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL. SOILS COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING AGENCY OR GEOTECHNICAL ENGINEER.

SPECIAL CONDITIONS: CONTRACTOR SHALL VERIFY ALL LEVELS, DIMENSIONS, AND EXISTING CONDITIONS IN THE FIELD BEFORE PROCEEDING. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR FIELD CHANGES PRIOR TO INSTALLATION OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN DIRECTION FROM THE ARCHITECT BEFORE PROCEEDING. DIMENSIONS NOTED AS PLUS OR MINUS (±) INDICATE UNVERIFIED DIMENSIONS AND ARE APPROXIMATE. NOTIFY ARCHITECT IMMEDIATELY OF CONFLICTS OR EXCESSIVE VARIATIONS FROM INDICATED DIMENSIONS. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS—DO NOT SCALE DRAWINGS. DIMENSIONS OF EXISTING CONDITIONS MAY BE BASED ON RECORD DRAWINGS AND ARE TO BE FIELD–VERIFIED BY THE CONTRACTOR.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS, EXISTING CONSTRUCTION AND SOIL EXCAVATIONS, AS REQUIRED, AND IN A MANNER SUITABLE TO THE WORK SEQUENCE. TEMPORARY SHORING AND BRACING SHALL NOT BE REMOVED UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS AND MATERIALS HAVE ACHIEVED DESIGN STRENGTH. NO REINFORCING BARS IN EXISTING CONSTRUCTION SHALL BE CUT UNLESS DIRECTED TO BY THE ARCHITECT OR AS SHOWN ON THE DRAWINGS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.

SOILS: SEE THE GEOTECHNICAL MEMORANDUM BY HART CROWSER, DATED 08/28/17, FOR MORE COMPLETE INFORMATION. EARTHWORK MATERIAL, BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. BACKFILL BEHIND WALLS SHALL NOT BE PLACED BEFORE THE WALL IS PROPERLY SUPPORTED BY THE FLOOR SLAB OR TEMPORARY BRACING. ALL TOPSOIL ORGANICS AND LOOSE SURFACE SOIL SHALL BE REMOVED FROM BENEATH FILL SUPPORTING CONCRETE SLABS OR PAVING.

MEMBER SPACING: ALL FRAMING MEMBERS SHALL BE EQUALLY SPACED BETWEEN GRID LINES, COLUMNS, AND DIMENSIONED FRAMING UNLESS NOTED OTHERWISE.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF IBC CHAPTER 19.

CONCRETE MIXES: CONCRETE MIXES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

F°C (PSI)	TEST AGE (DAYS)	W/C RATIO	USE
4,000	28	0.5	SLAB–ON–GRADE, FOUNDATIONS, CONCRETE WALLS
5,000	28	0.45	COLUMNS AND SHEAR WALLS

WATER–REDUCING ADMIXTURES MAY BE INCORPORATED IN CONCRETE MIX DESIGNS, BUT SHALL CONFORM TO ASTM C 494, AND BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER’S RECOMMENDATIONS. CACL₂ OR OTHER WATER–SOLUBLE CHLORIDE ADMIXTURES SHALL NOT BE USED.

WATER/CEMENT (W/C) RATIO SHALL BE MEASURED BY WEIGHT AND SHALL BE BASED ON THE TOTAL CEMENTITIOUS MATERIAL. WATER/CEMENT RATIO AND WATER CONTENT SHALL BE DETERMINED BY THE SUPPLIER BASED ON STRENGTH REQUIREMENTS AND SHALL NOT EXCEED THE MAXIMUM WATER/CEMENT RATIO AND/OR WATER CONTENT IF SHOWN ABOVE OR IN THE PROJECT SPECIFICATIONS.

FIELD–MEASURED SLUMP SHALL CONFORM TO THE SUBMITTED CONCRETE MIX DESIGN. TOLERANCE OF SLUMP SHALL CONFORM TO ASTM C 94.

AN AIR–ENTRAINING AGENT CONFORMING TO ASTM C 260 SHALL BE USED IN ALL CONCRETE MIXES FOR FLATWORK WHICH IS EXPOSED TO WEATHER. THE AMOUNT OF ENTRAINED AIR SHALL BE 5 PERCENT ±1 1/2 PERCENT BY VOLUME. THE AMOUNT OF ENTRAINED AIR SHALL BE MEASURED IN THE FIELD AT THE DISCHARGE FROM THE TRUCK.

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR APPROVAL 2 WEEKS PRIOR TO PLACING ANY CONCRETE. THE MIX DESIGN SHALL BE IN CONFORMANCE WITH ACI 318, CHAPTER 19. THE SUBMITTAL SHALL INDICATE WHERE EACH CONCRETE MIX IS TO BE USED ON THE PROJECT, AS WELL AS THE MAXIMUM AGGREGATE SIZE OF EACH MIX. MAXIMUM AGGREGATE SIZE SHALL CONFORM TO THE PROJECT SPECIFICATIONS.

CURING: IF THE AIR TEMPERATURE WILL EXCEED 75 DEGREES F WITHIN 48 HOURS OF PLACING CONCRETE, A MOIST CURE SHALL BE APPLIED TO THE CONCRETE FOR A PERIOD OF 36 HOURS AFTER FINISHING CONCRETE SURFACES. REFER TO THE PROJECT SPECIFICATIONS FOR CURING REQUIREMENTS.

REINFORCING STEEL DEFORMED BARS	ASTM A 615, GRADE 60
SPECIAL DUCTILE QUALITY DEFORMED BARS	ASTM A 706, GRADE 60 LOW ALLOY
HEADED DEFORMED BARS	ASTM A 970, HEAD TYPE HA
ADHESIVE REINFORCING DOWELS	ASTM A 615, GRADE 60 ADHESIVE AS REQUIRED PER POST–INSTALLED ANCHORS

SPECIAL DUCTILE QUALITY (SDQ) DEFORMED BARS SHALL BE USED FOR VERTICAL REINFORCING IN SHEAR WALLS, DIAGONAL REINFORCING IN DIAGONALLY REINFORCED COUPLING BEAMS, TOP AND BOTTOM REINFORCING IN ALL OTHER COUPLING BEAMS, AND OTHER REINFORCING DESIGNATED "SDQ" ON THE DRAWINGS. ASTM A 615, GRADE 60, REBAR MAY BE USED IN THESE MEMBERS IF 1) THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3,000 PSI), AND 2) THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL TENSILE YIELD STRENGTH IS NOT LESS THAN 1.25. MILL TEST CERTIFICATIONS FOR SDQ ASTM A 615, GRADE 60, BARS SHALL BE SUBMITTED TO THE OWNER’S SPECIAL INSPECTOR AND ARCHITECT PRIOR TO PLACING THE BARS.

REINFORCING SHALL BE SUPPORTED AS SPECIFIED BY THE PROJECT SPECIFICATIONS AND THE CRSI MANUAL OF STANDARD PRACTICE. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI STANDARD OF PRACTICE AS OUTLINED IN ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."

LAP ALL REINFORCING BARS AS NOTED ON THE DRAWINGS. WHERE SPLICE LENGTH IS NOT SHOWN, USE TYPE LB (LBT FOR TOP BARS) SPLICE PER DEVELOPMENT AND SPLICE LENGTH SCHEDULE. MECHANICAL SPLICES CALLED OUT ON THE PLANS SHALL BE TYPE 1, UNLESS OTHERWISE NOTED. TYPE 1 SPLICES SHALL DEVELOP 125 PERCENT OF THE YIELD CAPACITY OF THE SPLICED BARS IN BOTH TENSION AND COMPRESSION. TYPE 2 SPLICES SHALL DEVELOP THE SPECIFIED TENSILE STRENGTH OF THE SPLICED BARS IN TENSION IN ADDITION TO MEETING TYPE 1 SPLICE REQUIREMENTS. SUBMIT ICC–ES OR IAPMO–UES REPORT VALID FOR THE 2015 IBC DEMONSTRATING COMPLIANCE OF COUPLERS WITH THESE REQUIREMENTS.

AT THE CONTRACTOR’S OPTION AND WITH THE ARCHITECT’S APPROVAL, HEADED DEFORMED BARS MAY BE USED IN LIEU OF REINFORCING BARS SHOWN WITH STANDARD 90 OR 180 DEGREE HOOKS AND MECHANICAL SPLICES MAY BE USED IN LIEU OF LAP SPLICES. USE OF HEADED DEFORMED BARS IS SUBJECT TO CONFORMANCE WITH ACI 318 SECTION 25.4.4. USE OF MECHANICAL SPLICES IS SUBJECT TO CONFORMANCE WITH ACI 318 SECTION 18.2.7 AND REQUIRES SUBMITTAL OF AN ICC–ES OR IAPMO–UES REPORT VALID FOR THE 2015 IBC.

REINFORCING STEEL SHALL HAVE PROTECTION AS FOLLOWS, UNLESS NOTED OTHERWISE:

USE	COVER
BEAM STIRRUPS AND COLUMN TIES	1 1/2"
INTERIOR SLAB BARS	1 1/2"
NONSTRUCTURAL SLAB–ON–GRADE	MID–DEPTH
STRUCTURAL SLAB–ON–GRADE: BOTTOM BARS	2"
TOP BARS	1 1/2"
WALL BARS: INTERIOR FACES	3/4"
EXPOSED TO EARTH OR WEATHER	1 1/2" (#5 AND SMALLER) 2" (#6 AND LARGER) 3" (CAST AGAINST EARTH)
FOOTING, GRADE BEAM	2" (#6 AND LARGER WHERE EXPOSED TO EARTH OR WEATHER)
BOTTOM BARS	1 1/2"
TOP BARS	2"
SIDE BARS	2"

WELDING OF REINFORCING, WHERE APPROVED BY THE ARCHITECT, SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES AND PREHEATED IN ACCORDANCE WITH AWS D1.4, REINFORCING STEEL WELDING CODE. WELDERS AND WELDING PROCEDURES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.4. MATERIALS SHALL CONFORM TO THE FOLLOWING:

REINFORCING BARS TO BE WELDED	ASTM A 706, GRADE 60, LOW ALLOY
WELDING ELECTRODES	E80XX

NONSHRINK GROUT: BASE PLATE GROUT SHALL BE NONSHRINK TYPE WITH MINIMUM F°C = 8,000 PSI. ALL OTHER NONSHRINK GROUT SHALL HAVE MINIMUM F°C = 5,000 PSI.

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BUILDING STRUCTURAL NOTES – TOLL PLAZA	SHEET 1093 OF 1521 SHEETS

BUILDING STRUCTURAL NOTES (CONT): TOLL PLAZA STRUCTURES

STRUCTURAL STEEL

REFERENCE SPECIFICATIONS

STRUCTURAL STEEL	AISC 360 – SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
HIGH STRENGTH BOLTS	RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS
WELDING	AWS D1.1, TYPICAL AWS D1.3 FOR STEEL DECK AND COLD-FORMED FRAMING AWS D1.8 FOR SUPPLEMENTAL SEISMIC PROVISIONS AWS PREQUALIFIED JOINT DETAILS
WELDER CERTIFICATION	AMERICAN WELDING SOCIETY (AWS) WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO)
STEEL DECKING	STEEL DECK INSTITUTE PUBLICATION NO. 31
STEEL MATERIALS	
WIDE FLANGE SHAPES (W AND WT)	ASTM A 992
PLATES (PL), BARS, ANGLES (L), CHANNELS (C AND MC)	ASTM A 36, UNLESS NOTED OTHERWISE
STRUCTURAL TUBES (HSS)	ASTM A 500, GRADE C
STEEL PIPE	ASTM A 53, GRADE B
STRUCTURAL BOLTS	ASTM A 325 TYPICAL, A 490 AS NOTED
ANCHOR RODS	ASTM F 1554, GRADE 36 UNLESS NOTED OTHERWISE
THREADED RODS	ASTM A 36, UNLESS NOTED OTHERWISE
WELDING ELECTRODES	70 KSI, LOW HYDROGEN, TYPICAL
STEEL DECKING	60 KSI, MINIMUM, STEEL DECK AND COLD-FORMED FRAMING

STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE REQUIREMENTS OF IBC CHAPTER 22. ALL MEMBERS ARE TO BE ERECTED WITH NATURAL MILL CAMBER OR INDUCED CAMBER UP, UNLESS OTHERWISE NOTED ON THE PLANS. SUBSTITUTION OF MEMBER SIZES OR STEEL GRADE WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ARCHITECT. BOLTED CONNECTIONS ARE TO BE OF HIGH STRENGTH ASTM A 325 BOLTS AS SHOWN, UNLESS NOTED OTHERWISE. A MINIMUM OF TWO BOLTS IS REQUIRED FOR ALL BEAM CONNECTIONS. ALTERNATIVE CONNECTIONS TO THOSE SHOWN ON THESE DRAWINGS WILL REQUIRE PRIOR APPROVAL OF THE ARCHITECT.

BEAM CAMBER INDICATED ON DRAWINGS IS THE UPWARD CAMBER REQUIRED IN THE BEAM AS DELIVERED TO THE JOB SITE. CONTRACTOR TO CONSIDER CAMBER LOSS, IF ANY, DUE TO SHIPPING AND HANDLING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPEs, SURFACE ROUGHNESS VALUES, AND UNEQUAL PARTS.

GALVANIZING: STRUCTURAL STEEL AND CONNECTIONS, INCLUDING PLATES AND OTHER STEEL ITEMS EMBEDDED IN CONCRETE, WHICH ARE EXPOSED TO WEATHER AND NOT TO BE PAINTED SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN COMPLIANCE WITH ASTM A 123. ALL FIELD WELDS ON GALVANIZED MATERIAL SHALL BE COATED WITH BRUSH APPLIED ZINC-RICH PAINT COMPLYING WITH THE SPECIFICATIONS.

WELDING: ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS, AND SHALL BE PERFORMED BY AWS-WABO-CERTIFIED WELDERS USING 70 KSI ELECTRODES AND LOW HYDROGEN PROCESSES. ONLY WELDS THAT ARE PREQUALIFIED, AS DEFINED BY AWS, OR QUALIFIED BY TESTING SHALL BE USED. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. WELDS SHOWN ON THE DRAWINGS ARE MINIMUM SIZES. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON THICKNESS. MINIMUM WELD SIZE SHALL BE 3/16-INCH, UNLESS NOTED OTHERWISE. THE WELDS SHOWN ARE FOR THE FINAL CONNECTIONS. FIELD WELD SYMBOLS ARE SHOWN WHERE FIELD WELDS ARE REQUIRED BY THE STRUCTURAL DESIGN. WHERE FIELD WELD IS NOT INDICATED, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOP OR FIELD-WELDED IN ORDER TO FACILITATE THE STRUCTURAL STEEL ERECTION.

FIREPROOFING: EXCEPT WHERE PAINTED OR GALVANIZED, STRUCTURAL STEEL SHALL BE FIREPROOFED PER THE SPECIFICATIONS. FIREPROOFING SHALL BE GCP APPLIED TECHNOLOGIES OR APPROVED EQUAL. THICKNESS SHALL BE AS INDICATED ON ICC REPORT NO. ESR-1186. PRIMARY STRUCTURAL FRAME CONSISTS OF ALL COLUMNS, GIRDERS AND BEAMS ATTACHED TO COLUMNS, AND ANY BEAM CARRYING GREATER THAN 500 SQUARE FEET OF FLOOR OR ROOF AREA. ALL OTHER FRAMING IS TO BE CONSIDERED SECONDARY. STRUCTURAL MEMBERS SHALL BE ASSUMED TO BE IN A THERMAL RESTRAINED CONDITION FOR THE PURPOSES OF DETERMINING FIREPROOFING THICKNESS. WHERE SPRAY-APPLIED FIREPROOFING IS EXPOSED TO WEATHER, STRUCTURAL STEEL SHALL BE CONSIDERED EXPOSED TO WEATHER.

ANCHORS

POST-INSTALLED ANCHORS: PROVIDE POST-INSTALLED ANCHORS AS SPECIFIED IN THESE DRAWINGS.

USE OF ALTERNATE PRODUCTS, OR OF POST-INSTALLED ANCHORS AT LOCATIONS NOT SHOWN IN THESE DRAWINGS, IS SUBJECT TO THE APPROVAL OF THE ARCHITECT. SUBMIT PROPOSED ANCHORS TO THE ARCHITECT WITH AN ICC-ES OR IAPMO UES REPORT VALID FOR THE 2015 IBC. SUBMITTED ICC-ES AND IAPMO UES REPORTS SHALL DEMONSTRATE THAT THE ANCHORS ARE SUITABLE FOR USE IN CRACKED CONCRETE OR UNCRACKED, FULLY GROUTED REINFORCED CONCRETE MASONRY UNITS. WHERE ANCHORS RESIST SEISMIC LOADS, SUBMITTED ICC-ES AND IAPMO UES REPORTS SHALL DEMONSTRATE THAT THE ANCHORS ARE SUITABLE FOR THE RESISTANCE OF SEISMIC LOADS.

ADHESIVES SHALL NOT BE INSTALLED PRIOR TO THE CONCRETE REACHING AN AGE OF 21 DAYS AS REQUIRED BY ACI 318.

HEADED SHEAR STUDS AND DEFORMED BAR ANCHORS: ALL HEADED SHEAR STUDS SHALL CONFORM TO ASTM A 108 AND SHALL BE 3/4-INCH DIAMETER HEADED STUDS, UNLESS NOTED OTHERWISE. STUD LENGTHS AFTER WELD SHALL BE AS SHOWN ON THE DRAWINGS. DEFORMED BAR ANCHORS (DBA) SHALL CONFORM TO ASTM A 496 AND SHALL BE OF THE SIZE AND LENGTH SHOWN ON THE DRAWINGS. ALL STUDS AND DEFORMED BAR ANCHORS SHALL BE AUTOMATICALLY END WELDED IN SHOP OR FIELD WITH EQUIPMENT RECOMMENDED BY MANUFACTURER.

COLD-FORMED STEEL

COLD-FORMED STEEL FRAMING MEMBERS SHALL BE OF THE TYPE, SHAPE, SIZE, GAUGE, AND SPACING AS SHOWN ON THE DRAWINGS. MEMBER TYPES AND SIZES SHOWN ON THE DRAWINGS REFER TO MEMBERS AS DEFINED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). MEMBERS EQUIVALENT IN SHAPE, SIZE, STIFFNESS, AND STRENGTH BY OTHER MANUFACTURERS MAY BE SUBSTITUTED FOR FRAMING MEMBERS SHOWN. ALTERNATE MEMBERS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO FABRICATION AND ERECTION. ALL COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE AISI S100 – "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS." ALL STUDS, TRACKS AND JOISTS SHALL BE GALVANIZED. FASTENINGS SHALL BE AS SHOWN ON THE DRAWINGS. FASTENINGS NOT SHOWN SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

COLD-FORMED STEEL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3, "SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES." WELDERS SHALL BE QUALIFIED BY WABO SHEET STEEL WELDER CERTIFICATION PROGRAM.

WOOD

SAWN LUMBER: SAWN LUMBER SHALL CONFORM TO "GRADING AND DRESSING RULES," WEST COAST LUMBER INSPECTION BUREAU (WCLIB), LATEST EDITION. LUMBER SHALL BE KILN DRIED AND BE THE SPECIES AND GRADE NOTED BELOW. DESIGN STRESSES ARE BASED ON NDS. ALL LUMBER IN CONTACT WITH CMU, CONCRETE, OR GROUND SURFACES SHALL BE PRESERVATIVE TREATED.

USE	GRADE	FB (PSI) (SINGLE USE)
POSTS		
5"x5" AND LARGER	DOUGLAS FIR-LARCH NO. 1	1,200
4"x4"	DOUGLAS FIR-LARCH NO. 1	1,000

ALL FRAMING ACCESSORIES AND FASTENERS IN CONTACT WITH PRESERVATIVE-TREATED LUMBER SHALL BE GALVANIZED WITH A MINIMUM COATING OF 1.85 OUNCES/SQUARE FOOT.

RATED SHEATHING: WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF U.S. DEPARTMENT OF COMMERCE (DOC) PS-1 "CONSTRUCTION AND INDUSTRIAL PLYWOOD" OR DOC PS-2 "PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS". EACH PANEL SHALL BEAR THE APA GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION. SHEATHING SHALL BE AS FOLLOWS:

ROOF SHEATHING

15/32" 32/16 C-D INT APA WITH EXTERIOR GLUE (CDX)

SUBFLOORING SHEATHING (TONGUE AND GROOVE, UNLESS EDGES BLOCKED)

23/32" 48/24 C-D INT APA WITH EXTERIOR GLUE (CDX)

SHEAR WALL SHEATHING

15/32" 32/16 APA, EXPOSURE 1

ALL ROOF SHEATHING AND SUBFLOORING SHALL BE INSTALLED FACE GRAIN PERPENDICULAR TO SUPPORTS OR AS INDICATED ON THE DRAWINGS. ROOF AND SUBFLOORING SHEATHING SHALL BE UNBLOCKED OR AS INDICATED ON DRAWINGS. INSTALL WITH 1/8" GAP BETWEEN PANELS. SHEAR WALL SHEATHING SHALL BE BLOCKED AT ALL PANEL EDGES AS INDICATED IN THE SHEAR WALL SCHEDULE, UNLESS NOTED OTHERWISE. FLOOR DIAPHRAGM AND SHEAR WALL NAILS SHALL BE DRIVEN FLUSH, BUT SHALL NOT FRACTURE THE SURFACE OF SHEATHING. NAILING NOT SHOWN SHALL BE AS INDICATED IN IBC TABLE 2304.10.1. ALL NAILS SHALL BE COMMON.

GLUED FLOOR AND ROOF SYSTEM: ALL PLYWOOD SHALL BE GLUED TO THE FLOOR JOISTS. THE FIELD-GLUED FLOOR SYSTEM SHALL BE INSTALLED ACCORDING TO THE RECOMMENDATIONS OF THE AMERICAN PLYWOOD ASSOCIATION. GLUE SHALL BE APPLIED TO THE JOISTS AND TO THE GROOVE IN THE EDGE OF THE T&G PANELS. GLUE SHALL MEET THE REQUIREMENTS OF THE AMERICAN PLYWOOD ASSOCIATION ADHESIVE SPECIFICATION AFG-01 AND SHALL BE APPLIED AS DIRECTED BY THE GLUE MANUFACTURER. GLUE MAY BE APPLIED MANUALLY OR WITH PNEUMATIC OR ELECTRIC EQUIPMENT.

GLUED LAMINATED MEMBERS: GLUED LAMINATED MEMBERS SHALL BE MANUFACTURED AND IDENTIFIED IN ACCORDANCE WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) A190.1 "STRUCTURAL GLUE LAMINATED TIMBER". EACH MEMBER SHALL BEAR AN AITC IDENTIFICATION MARK AND BE ACCOMPANIED BY AN AITC CERTIFICATE OF CONFORMANCE. ONE COAT OF END SEALER SHALL BE APPLIED IMMEDIATELY AFTER TRIMMING IN EITHER SHOP OR FIELD. MEMBERS SHALL BE VISUALLY GRADED WESTERN SPECIES PREMIUM GRADE WITH STRENGTH INDICATED AS FOLLOWS:

	COMBINATION SYMBOL	SPECIES	USES
BEAMS	24F – V4	DF/DF	SIMPLE SPAN
	24F – V8	DF/DF	CONTINUOUS OR CANTILEVER SPAN
COLUMNS	2-L2	DF/DF	CRUCIFORM COLUMNS

2" & 3" TONGUE AND GROOVE DECKING: DECKING, FASTENING, AND INSTALLATION, SHALL BE PER IBC 2304.9 AND AITC 112. IBC TO CONTROL WHERE CONFLICTS BETWEEN DOCUMENTS EXIST. ALL LAY UP TO BE BY CONTROLLED RANDOM PATTERN. END JOINTS IN MID-SPAN SHALL BE END MATCHED OR USE #10 GAGE METAL SPLINE AND DRIVE FIT INTO PRECUT SLOT IN BOARD.

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BUILDING STRUCTURAL NOTES – TOLL PLAZA		SHEET 1094 OF 1521 SHEETS

BUILDING STRUCTURAL ABBREVIATIONS: TOLL PLAZA STRUCTURES

AB	ANCHOR BOLT	HP	HIGH POINT
ADD'L	ADDITIONAL	HSS	HOLLOW STRUCTURAL SECTION
ADJ	ADJUSTABLE	IBC	INTERNATIONAL BUILDING CODE
AFF	ABOVE FINISH FLOOR	ID	INSIDE DIAMETER
AGG	AGGREGATE	IE	INVERT ELEVATION
ANCH	ANCHOR	IF	INSIDE FACE
ARCH	ARCHITECTURAL	IN	INCH
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	INFO	INFORMATION
B/	BOTTOM OF	INT	INTERIOR
BLDG	BUILDING	JST	JOIST
BF	BRACED FRAME	JT	JOINT
BLKG	BLOCKING	K	KIP (1,000 LBS.)
BM	BEAM	KSF	KIPS PER SQUARE FOOT
BN	BOUNDARY NAILING	L2	LEVEL 2
BOT	BOTTOM	LF	LINEAL FOOT
BRG	BEARING	LLH	LONG LEG HORIZONTAL
BSMT	BASEMENT	LLV	LONG LEG VERTICAL
BTWN	BETWEEN	LP	LOW POINT
BUR	BUILT-UP ROOF	LSH	LONG SIDE HORIZONTAL
C	CAMBER	LSV	LONG SIDE VERTICAL
CAP	CAPACITY	LVL	LAMINATED VENEER LUMBER
CC	CENTER TO CENTER	MAX	MAXIMUM
CFS	COLD-FORMED STEEL	MECH	MECHANICAL
CIP	CAST IN PLACE	MFR	MANUFACTURER
CJ		MID	MIDDLE
CL	CENTERLINE	MIN	MINIMUM
CLG	CONSTRUCTION OR CONTROL JOINT	MISC	MISCELLANEOUS
CLR	CLEAR	MOM	MOMENT
CLT	CROSS LAMINATED TIMBER	NIC	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT	NOM	NOMINAL
COL	COLUMN	NO	NUMBER
CONC	CONCRETE	NS	NEAR SIDE
CONN	CONNECTION	NS	NONSHRINK
CONST	CONSTRUCTION	NTS	NOT TO SCALE
CONT	CONTINUOUS	OC	ON CENTER
CONTR	CONTRACTOR	OD	OUTSIDE DIAMETER
COORD	COORDINATE	OF	OUTSIDE FACE
CP	COMPLETE PENETRATION	OPNG	OPENING
CTR	CENTER	OPP	OPPOSITE
CY	CUBIC YARD	P	POST
DB	DIVIDER BEAM	PC	PIECE
DBA	DEFORMED BAR ANCHOR	PEN	PENETRATION
DBL	DOUBLE	PL	PLATE
DEMO	DEMOLISH	PL	PROPERTY LINE
DET	DETAIL	PLWD	PLYWOOD
DF	DOUGLAS FIR	PNL	PANEL
DIA	DIAMETER	PP	PARTIAL PENETRATION
DIAG	DIAGONAL	PSI	POUNDS PER SQUARE INCH
DKG	DECKING	PSF	POUNDS PER SQUARE FOOT
DN	DOWN	PT	POINT
DO	DITTO	R	RADIUS
DWF	DEFORMED WIRE FABRIC	RD	ROOF DRAIN
DWG	DRAWING	REINF	REINFORCING
DWL	DOWEL	REM	REMAIN(DER)
EA	EACH	REQ'D	REQUIRED
EF	EACH FACE	RND	ROUND
EL	ELEVATION	RO	ROUGH OPENING
ELECT	ELECTRICAL	RTN	RETURN
ELEV	ELEVATOR	SC	SLIP CRITICAL
EN	EDGE NAILING	SCHED	SCHEDULE
EQ	EQUAL	SDC	SEISMIC DESIGN CATEGORY
EQUIP	EQUIPMENT	SECT	SECTION
ES	EACH SIDE	SHT	SHEET
EW	EACH WAY	SIM	SIMILAR
EX	EXISTING	SOG	SLAB-ON-GRADE
EXP	EXPANSION	SP	SPACE
EXT	EXTERIOR	SPEC	SPECIFICATION
FD	FLOOR DRAIN	SQ	SQUARE
FDN	FOUNDATION	SS	STAINLESS STEEL
FF	FINISH FLOOR	ST	SUSTAINED TENSION ANCHOR
FIN	FINISH	STD	STANDARD
FLG	FLANGE	STIFF	STIFFENER
FLR	FLOOR	STIRR	STIRRUP
FOB	FACE OF BUILDING	STL	STEEL
FS	FAR SIDE	STRUCT	STRUCTURAL
FT	FEET	SUPP	SUPPORT
FTG	FOOTING	SYM	SYMMETRICAL
GA	GAUGE	T/	TOP OF
GALV	GALVANIZED	T&B	TOP AND BOTTOM
GEN	GENERAL	T&G	TONGUE AND GROOVE
GL	GLUE LAMINATED BEAM	THK	THICK(NESS)
GOVT	GOVERNMENT	THRU	THROUGH
GR	GRADE	TRANS	TRANSVERSE
GWB	GYPSTUM WALL BOARD	TYP	TYPICAL
HF	HEM-FIR	UNO	UNLESS NOTED OTHERWISE
HGR	HANGER	VERT	VERTICAL
HK	HOOK	W/	WITH
HORIZ	HORIZONTAL	WD	WOOD
		WHS	WELDED HEADED STUD
		WL	WATER LINE
		W/O	WITHOUT
		WP	WORK POINT
		WWF	WELDED WIRE FABRIC

DRAWING LIST: TOLL PLAZA STRUCTURES

SB00.51	BUILDING STRUCTURAL NOTES – TOLL PLAZA
SB00.52	BUILDING STRUCTURAL NOTES – TOLL PLAZA
SB00.53	BUILDING STRUC NOTES, ABBREV'S, AND DWG LIST – TOLL PLAZA
SB00.54	BUILDING STRUCTURAL SYMBOLS – TOLL PLAZA
SB00.55	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS – TOLL PLAZA
SB00.56	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS – TOLL PLAZA
SB00.57	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS – TOLL PLAZA
SB00.58	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS – TOLL PLAZA
SB00.59	LOAD MAPS (TOLL PLAZA)
SB02.50	TOLL PLAZA – OVERALL PLANS
SB02.51	TOLL PLAZA – LEVEL 1 – SECTOR F PLAN
SB02.52	TOLL PLAZA – LEVEL 1 – SECTOR G PLAN
SB02.53	TOLL PLAZA – INTERMEDIATE ROOF – SECTOR F PLAN
SB02.54	TOLL PLAZA – INTERMEDIATE ROOF – SECTOR G PLAN
SB02.55	TOLL PLAZA – ROOF – SECTOR F PLAN
SB02.56	TOLL PLAZA – ROOF – SECTOR G PLAN
SB04.50	SHEAR WALL ELEVATIONS – TOLL PLAZA
SB04.51	WALL ELEVATIONS – TOLL PLAZA
SB05.00	TYPICAL CONCRETE DETAILS
SB05.01	TYPICAL CONCRETE DETAILS
SB05.50	CONCRETE DETAILS – TOLL PLAZA
SB05.51	CONCRETE DETAILS – TOLL PLAZA
SB05.52	CONCRETE DETAILS – TOLL PLAZA
SB05.53	CONCRETE DETAILS – TOLL PLAZA
SB06.04	TYPICAL STEEL DETAILS
SB06.05	TYPICAL STEEL DETAILS
SB06.06	TYPICAL STEEL DETAILS
SB06.07	TYPICAL STEEL DETAILS
SB06.08	TYPICAL STEEL DETAILS
SB06.50	STEEL DETAILS – TOLL PLAZA
SB06.51	STEEL DETAILS – TOLL PLAZA
SB07.50	WOOD DETAILS – TOLL PLAZA
SB07.51	WOOD DETAILS – TOLL PLAZA
SB07.52	WOOD DETAILS – TOLL PLAZA
SB08.00	TYPICAL CFS DETAILS
SB08.01	CFS DETAILS
SB08.50	CFS DETAILS – TOLL PLAZA

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DIR TERM ENGR:	N. MCINTOSH				18W121
ASST SECRETARY:	A. SCARTON				CONTRACT NO.
			REVISION	DATE	BY
					00****

DATE



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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
BUILDING STRUCTURAL NOTES,
ABBREVS, AND DWG LIST – TOLL PLAZA

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GENERAL SYMBOLS: TOLL PLAZA STRUCTURES

10

GRID BUBBLE

SURFACE – SLOPE UP

SURFACE – STEPPED

SURFACE – SLOPE DOWN

SURFACE – SLOPE TWO WAYS

UNDISTURBED SOIL, COMPACTED SOIL,
BACKFILL, OR ANY PREPARED SUBGRADE.
SEE SPECIFICATIONS FOR TYPE OF
MATERIAL AND PREPARATION METHOD

NORTH ARROW

1

SB05.03

STANDARD SECTION CUT

4

SB04.02

ELEVATION OF WALL OR FRAME

1

SB05.03

DETAIL CALLOUT AND BUBBLE

100'-0"

SPOT ELEVATION: TOP OF PLYWOOD
TOP OF CONCRETE
TOP OF STEEL

100'-0"

TOP OF CONCRETE ELEVATION

100'-0"

TOP OF STEEL ELEVATION

100'-0"

REFERENCE ELEVATION. REFER TO
PLAN UNLESS NOTED OTHERWISE.

100'-0"

ELEVATION OF LEVEL

WP

WORKPOINT

DIRECTION OF DOWNWARD SLOPE

DIRECTION OF SPAN

WOOD AND COLD-FORMED STEEL SYMBOLS: TOLL PLAZA STRUCTURES

GLULAM SECTION

SOLID WOOD SECTION

SOLID WOOD BLOCKING SECTION

PLYWOOD SECTION

BEAM, GIRDER, OR JOIST

WALL ABOVE THIS LEVEL
WITH HEADER BELOW

WALL BELOW THIS LEVEL
WITH HEADER BELOW

WALL ABOVE THIS LEVEL

WALL BELOW THIS LEVEL

SW-X

SHEAR WALL ABOVE. SEE
SHEAR WALL SHEATHING
AND NAILING SCHEDULE

STEEL SYMBOLS: TOLL PLAZA STRUCTURES

STEEL COLUMN ABOVE OR PASSING
THRU LEVEL

STEEL COLUMN BELOW

STEEL IN CROSS SECTION

STEEL EMBED CONN

CONCRETE SYMBOLS: TOLL PLAZA STRUCTURES

CONCRETE COLUMN ABOVE OR PASSING
THRU LEVEL

CONCRETE COLUMN BELOW

STEPPED FOOTING

CONCRETE WALL ABOVE OR PASSING
THRU THIS LEVEL

CONCRETE WALL BELOW

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ASST SECRETARY: A. SCARTON		REVISION	DATE	BY							

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OF
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STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING: TOLL PLAZA STRUCTURES

TABLE 1 – REQUIRED GEOTECHNICAL SPECIAL INSPECTIONS					
SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
SOILS					
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	TB 1705.6 1705.6	GEOTECHNICAL REPORT		X	BY THE GEOTECHNICAL ENGINEER
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.				X	
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.				X	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.			X		
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.				X	

TABLE 2 – REQUIRED STRUCTURAL SPECIAL INSPECTIONS					
SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
FABRICATION					
INSPECTION IN FABRICATION SHOP	1704.2.5				WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE AS REQUIRED BY TABLE 2 AND AS REQUIRED ELSEWHERE IN THE STATEMENT OF SPECIAL INSPECTIONS. REFERENCE SECTION 1704.2.5.1 FOR APPROVED FABRICATOR EXCEPTION.
CONCRETE					
INSPECT REINFORCEMENT, INCLUDING EMBEDMENTS AND VERIFY PLACEMENT.	TB 1705.3(1) 1705.3 1908.4	ACI 318: 20, 25.2–25.3, 26.6.1–26.6.3, 26.8, 26.13.3		X	TOLERANCE AND REINFORCING PLACEMENT PER ACI 318: 26.6
INSPECTION OF REINFORCING STEEL WELDING	TB 1705.3(2) 1705.3.1	ACI 318: 26.6.4 AWS D1.4: 7			EXCEPT AS NOTED OTHERWISE
MATERIAL VERIFICATION OF WELD FILLER METALS	1705.3.1			X	MANUFACTURER'S CERTIFIED TEST REPORTS
VERIFYING USE OF PROPER WELDING PROCEDURE SPECIFICATIONS				X	COPY OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS				X	COPY OF QUALIFICATION CARDS
VERIFY WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	TB 1705.3 (2.a)	AWS D1.4 ACI 318: 26.6.4		X	CERTIFIED MILL TEST REPORTS
INSPECT SINGLE PASS FILLET WELDS, MAXIMUM 5/16"	TB 1705.3 (2.b)			X	
INSPECT ALL OTHER WELDS	TB 1705.3 (2.c)		X		ALL WELDS VISUALLY INSPECTED PER AWS D1.4: 7.5
INSPECT ANCHORS CAST IN CONCRETE	WAC 51–50–1705	ACI 318 17.8.2		X	ALL ANCHORS SHALL BE VISUALLY INSPECTED

TABLE 2 – REQUIRED STRUCTURAL SPECIAL INSPECTIONS (CONT)						
SYSTEM OR MATERIAL	INSPECTION				REMARKS	
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)			
			CONTINUOUS	PERIODIC		
CONCRETE CONTINUED						
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:						
ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	WAC 51–50–1705	ACI 355.4 ICC/IAPMO EVALUATION REPORT ACI 318: 17.8.2.4, 26.13.3	X		REFER TO ANCHOR CALLOUTS FOR SUSTAINED TENSION (ST) DESIGNATION	
MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE.	WAC 51–50–1705	ACI 355.4 ICC/IAPMO EVALUATION REPORT ACI 318: 17.2, 26.13.3		X (NOTE 7)	ALL ANCHORS SHALL BE VISUALLY INSPECTED	
VERIFY USE OF REQUIRED DESIGN MIX.	TB 1705.3(5) 1705.3 1904 1908.2 1908.3	ACI 318: 19, 26.4.3–26.4.4, 26.13.3		X		
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	TB 1705.3(6) 1908.10	ASTM C 172 ASTM C 31 ACI 318: 26.4, 26.12	X			
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	TB 1705.3(7) 1705.3 1908.6–8	ACI 318: 26.5, 26.13.3	X			
VERIFY CURING METHOD AND DURATION OF CURING FOR EACH MEMBER.		ACI 318: 26.13.3.3(b)		X		
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	TB 1705.3(8) 1705.3 1908.9	ACI 318: 26.5.3–26.5.5, 26.13.3		X		
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	TB 1705.3(12) 1705.3	ACI 318: 26.11.1.2(b)		X		
INSPECT REINFORCING STEEL MECHANICAL COUPLERS, TERMINATORS AND FORM SAVERS		ICC/IAPMO EVALUATION REPORTS		X	VISUALLY INSPECT FOR CORRECT ASSEMBLY AND LOCATION	
STEEL						
INSPECTION TASKS PRIOR TO WELDING:						
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	1705.2	AISC 360: TB N5.4–1 AISC 360: N5.4		X		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE				X		
MATERIAL IDENTIFICATION (TYPE/GRADE)			X			
WELDER IDENTIFICATION SYSTEM			X			
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)			X			
CONFIGURATION AND FINISH OF ACCESS HOLES			X			
FIT-UP OF FILLET WELDS: DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)			X			
CHECK WELDING EQUIPMENT					FABRICATOR OR ERECTOR SHALL OBSERVE	

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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
STATEMENT OF STRUCTURAL
SPECIAL INSPECTIONS – TOLL PLAZA

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STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING: TOLL PLAZA STRUCTURES

TABLE 2 — REQUIRED STRUCTURAL SPECIAL INSPECTIONS (CONT)					
SYSTEM OR MATERIAL	INSPECTION			REMARKS	
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6) CONTINUOUS PERIODIC		
STEEL CONTINUED					
INSPECTION TASKS DURING WELDING:					
USE OF QUALIFIED WELDERS	1705.2	AISC 360: TB N5.4–2 AISC 360: N5.4	X		
CONTROL AND HANDLING OF WELDING CONSUMABLES: PACKAGING, EXPOSURE CONTROL			X		
NO WELDING OVER CRACKED TACK WELDS			X		
ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE			X		
WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.), PROPER POSITION (F, V, H, OH)			X		
WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS			X		
INSPECTION TASKS AFTER WELDING:					
WELDS CLEANED	1705.2	AISC 360: TB N5.4–3 AISC 360: N5.4	X		
SIZE, LENGTH AND LOCATION OF WELDS				X	
WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELD/BASE–METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY				X	
ARC STRIKES				X	
K–AREA				X	
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)				X	
REPAIR ACTIVITIES				X	
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER				X	
INSPECTION TASKS PRIOR TO BOLTING:					
MANUFACTURER’S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	1705.2	AISC 360: TB N5.6–1 AISC 360: N5.6		X	
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS			X		
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)			X		
PROPER BOLTING PROCEDURE FOR JOINT DETAIL			X		
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS			X		
PRE–INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED			X		
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS			X		

TABLE 2 – REQUIRED STRUCTURAL SPECIAL INSPECTIONS (CONT)					
SYSTEM OR MATERIAL	INSPECTION			REMARKS	
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6) CONTINUOUS PERIODIC		
STEEL CONTINUED					
INSPECTION TASKS DURING BOLTING:					
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	1705.2	AISC 360: TB N5.6–2 AISC 360: N5.6	X		
JOINT BROUGHT TO SNUG–TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION			X		
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING			X		
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES			X		
INSPECTION TASKS AFTER BOLTING:					
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	1705.2	AISC 360: TB N5.6–3		X	
COLD–FORMED STEEL FRAMING					
MATERIAL VERIFICATION OF WELDING CONSUMABLES		AISI S100: APP. A E2a		X	MANUFACTURER’S CERTIFIED TEST REPORTS
VERIFYING USE OF PROPER WPS				X	COPY OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS				X	COPY OF QUALIFICATION CARDS
WELDED FRAMING CONNECTIONS		AWS D1.3: 6		X	ALL WELDS VISUALLY INSPECTED PER AWS D1.3: 6.1

TABLE 2A – REQUIRED STRUCTURAL SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE					
SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
GENERAL					
SEISMIC FORCE–RESISTING SYSTEMS (SFRS) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F	1704.3.2 1705.12		X		REFERENCE GENERAL STRUCTURAL NOTES FOR OUTLINE OF SFRS SYSTEM. REFERENCE TABLE 2A FOR MATERIAL SPECIFIC INSPECTION REQUIREMENTS.
DESIGNATED SEISMIC SYSTEMS (SECONDARY) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F			X		REFERENCE TABLE N1 AND N2 FOR INSPECTION REQUIREMENTS.
CONCRETE					
MATERIAL VERIFICATION OF REINFORCING STEEL USED IN MOMENT RESISTING FRAMES AND SHEAR WALL BOUNDARY ELEMENTS	1704.5(7) 1705.12			X	CERTIFIED MILL TEST REPORTS
WOOD					
CONNECTIONS FOR DRAG STRUTS, BRACING, AND SHEAR WALL ANCHORAGE AND HOLD–DOWNS	1705.12.2			X	ALL CONNECTIONS VISUALLY INSPECTED

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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
STATEMENT OF STRUCTURAL
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TABLE 2B – REQUIRED STRUCTURAL SPECIAL INSPECTIONS FOR WIND RESISTANCE					
SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
GENERAL					
INSPECT FASTENING OF ROOF DECK, ROOF FRAMING CONNECTIONS, WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.	1705.11.3			X	
WOOD					
CONNECTIONS FOR DRAG STRUTS, BRACING, AND SHEAR WALL ANCHORAGE AND HOLD-DOWNS	1705.11.1			X	ALL CONNECTIONS VISUALLY INSPECTED

TABLE 3 – REQUIRED STRUCTURAL TESTING					
SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY		
			CONTINUOUS	PERIODIC	
GEOTECHNICAL					
FILL IN-PLACE DENSITY OR PREPARED SUBGRADE DENSITY	1705.6	VARIES; MINIMUM PER IBC APPENDIX J107.5		X	BY THE GEOTECHNICAL ENGINEER
MATERIAL VERIFICATION		VARIES; CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		X	BY THE GEOTECHNICAL ENGINEER
CONCRETE					
COMPOSITE SAMPLES	1903 1705.3	ASTM C 172 ACI 318: 26.12	ONE SAMPLE FOR EA 150 CY NOR LESS THAN 5,000 SQ FT OF SLABS AND WALLS, ONE SET PER DAY MIN		OBTAIN WHEN FRESH CONCRETE IS PLACED FOR EACH MIX DESIGN USED
CONCRETE STRENGTH, UNO		ASTM C 39 ACI 318: 26.12	EACH SAMPLE: 1 CYL – 7 DAYS 3 CYL – TEST AGE 1 CYL – HOLD		(NOTE 9) REFER TO GENERAL NOTES FOR TEST AGE. FOR 6 BY 12-INCH CYLINDERS, 2 CYLINDERS AT TEST AGE IS PERMITTED. CYL = CYLINDER
CONCRETE SLUMP		ASTM C 143	ONE TEST PER COMPOSITE SAMPLE		AT POINT OF PLACEMENT
CONCRETE AIR CONTENT		ASTM C 231	ONE TEST PER COMPOSITE SAMPLE		MIN ONE PER DAY
CONCRETE TEMPERATURE		ASTM C 1064	ONE TEST PER COMPOSITE SAMPLE		ONE TEST PER HOUR WHEN AIR TEMP IS BELOW 40 DEG F OR ABOVE 80 DEG F

TABLE 3 – REQUIRED STRUCTURAL TESTING (CONT)					
SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY		
			CONTINUOUS	PERIODIC	
STEEL					
RADIOGRAPHIC (RT) MAGNETIC PARTICLE (MT) AND ULTRASONIC (UT) TESTING OF WELDS	AISC 360 N5.5	RT– AWS D1.1: 6.16 MT– AWS D1.1: 6.14.4 UT– AWS D1.1: 6.13 & 6.14.3	PER DRAWINGS		ALL CJP WELDS IN MATERIALS 5/16" OR GREATER REQUIRE UT TESTING
PRE-CONSTRUCTION TESTING OF WELDED STUDS	1705.2.2	AWS D1.1: 7.7.1	EACH SIZE AND TYPE OF STUD EACH SHIFT		
PRE-INSTALLATION VERIFICATION OF PRETENSIONED HIGH STRENGTH BOLTS	1705.2.1 AISC 360: TB N5.6-1	RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS, SECTION 7	EACH COMBINATION OF DIAMETER, LENGTH, GRADE, AND LOT TO BE USED IN THE WORK		

TABLE 4 – REQUIRED STRUCTURAL TESTING FOR SEISMIC RESISTANCE					
SYSTEM OR MATERIAL	INSPECTION			REMARKS	
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY		
CONCRETE REINFORCEMENT					
TEST ASTM A 615 REINFORCEMENT IN SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS, AND COUPLING BEAMS AND WALL PIERS CONNECTING SPECIAL STRUCTURAL WALLS	1704.5(7) 1705.13	ACI 318: 20.2.2.5		NOT REQUIRED IN SEISMIC DESIGN CATEGORY A OR WHEN CERTIFIED MILL TEST REPORTS ARE PROVIDED. REFER TO DRAWINGS FOR LOCATIONS.	
TEST ASTM A 615 REINFORCEMENT FOR WELDABILITY WHEN SUCH REINFORCEMENT IS TO BE WELDED	1704.5(6) 1705.13	ACI 318: 26.6.4			
STEEL					
MT OF K-AREA OF ROLLED WIDE FLANGE COLUMN WEBS ADJACENT TO DOUBLER/CONTINUITY PLATE WELDS	1705.13.1	AISC 341: J6.2a AWS D1.1: 6.14.4	EACH PLATE LOCATION		
MAGNETIC PARTICLE (MT) AND ULTRASONIC (UT) TESTING OF COMPLETE JOINT PENETRATION GROOVE (CJP) WELDS IN MATERIALS 5/16" THICK AND GREATER		AISC 341: J6.2b MT – AWS D1.1: 6.14.4 UT – AWS D1.1: 6.13 & 6.14.3	UT 100% OF WELDS MT 25% OF WELDS	REFER TO DRAWINGS FOR LOCATIONS	
UT OF BASE METAL THICKER THAN 1-1/2" SUBJECT TO THROUGH-THICKNESS WELD SHRINKAGE STRAINS		AISC 341: J6.2c AWS D1.1: 6.13 & 6.14.3	BEHIND AND ADJACENT TO EACH WELD		
MT OF THE ENDS OF FLANGE WELDS FROM WHICH WELD TABS HAVE BEEN REMOVED		AISC 341: J6.2f AWS D1.1: 6.14.4	EACH LOCATION		

TABLE N2 – REQ'D NONSTRUCTURAL SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE					
SYSTEM OR MATERIAL	INSPECTION			REMARKS	
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY		
			CONTINUOUS		PERIODIC
ARCHITECTURAL					
INSTALLATION AND ANCHORAGE OF ACCESS FLOORS	1704.3.2 1705.12.5.1			X	REFERENCE ARCHITECTURAL FOR INFORMATION
INSTALLATION AND ANCHORAGE OF STORAGE RACKS	1704.3.2 1705.12.7	ASCE 7: 15.5.3		X	FOR RACKS OVER 8 FEET IN HEIGHT
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED ARCHITECTURAL SYSTEMS AND THEIR COMPONENTS	1704.3.2 1705.12.5			X	REFERENCE ARCHITECTURAL FOR INFORMATION

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MAR PROJ ENGR	C. TORRES				JOB NUMBER
DIR TERM ENGR:	N. MCINTOSH				18W121
ASST SECRETARY:	A. SCARTON				CONTRACT NO.
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SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS – TOLL PLAZA
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STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING: TOLL PLAZA STRUCTURES

TABLE N2 – REQUIRED NONSTRUCTURAL SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (CONT)					
SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY		
			CONTINUOUS	PERIODIC	
ELECTRICAL					
ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS	1704.3.2			X	SEISMIC RESTRAINT OF ELECTRICAL COMPONENTS IS A CONTRACTOR RESPONSIBILITY AND IS LISTED HERE FOR INFORMATION ONLY. REFERENCE ELECTRICAL FOR FURTHER INFORMATION.
ANCHORAGE OF ALL ELECTRICAL EQUIPMENT IN SEISMIC DESIGN CATEGORY E OR F ONLY	1705.12.6			X	
INSTALLATION OF VIBRATION ISOLATION SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 0.25 INCHES OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT	1705.12.6 1705.12.8			X	
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED ELECTRICAL SYSTEMS AND THEIR COMPONENTS	1705.12.6			X	
PROCESS MECHANICAL AND PLUMBING					
INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS DESIGNED TO CARRY HAZARDOUS MATERIALS AND ASSOCIATED MECHANICAL UNITS	1704.3.2 1705.12.6			X	SEISMIC RESTRAINT OF PROCESS MECHANICAL COMPONENTS IS A CONTRACTOR RESPONSIBILITY AND IS LISTED HERE FOR INFORMATION ONLY. REFERENCE MECHANICAL FOR FURTHER INFORMATION.
INSTALLATION OF EQUIPMENT USING COMBUSTIBLE ENERGY SOURCES	1705.12.4			X	
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED MECHANICAL SYSTEMS AND THEIR COMPONENTS				X	
BUILDING MECHANICAL AND PLUMBING					
INSTALLATION AND ANCHORAGE OF HVAC DUCTWORK DESIGNED TO CARRY HAZARDOUS MATERIALS	1704.3.2 1705.12.6			X	SEISMIC RESTRAINT OF BUILDING MECHANICAL COMPONENTS IS A CONTRACTOR RESPONSIBILITY AND IS LISTED HERE FOR INFORMATION ONLY. REFERENCE MECHANICAL FOR FURTHER INFORMATION.
INSTALLATION OF FIRE PROTECTION SPRINKLER SYSTEM	1705.12			X	
INSTALLATION OF EQUIPMENT USING COMBUSTIBLE ENERGY SOURCES	1705.12.4			X	
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED MECHANICAL SYSTEMS AND THEIR COMPONENTS				X	
INSTALLATION OF VIBRATION ISOLATION SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 0.25 INCHES OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT	1705.12.6			X	

TABLE N4 – REQUIRED NONSTRUCTURAL TESTING FOR SEISMIC RESISTANCE					
SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY		
MECHANICAL AND ELECTRICAL					
COMPONENT TESTING INCLUDING MOUNTING SYSTEMS OR ANCHORAGE IF CERTIFICATES OF COMPLIANCE ARE NOT AVAILABLE	1705.13 1705.13.2 1705.13.3	ASCE 7: 13.2		X	SEISMIC RESTRAINT OF MECHANICAL AND ELECTRICAL COMPONENTS IS A CONTRACTOR RESPONSIBILITY AND IS LISTED HERE FOR INFORMATION ONLY. REFERENCE MECHANICAL AND ELECTRICAL FOR FURTHER INFORMATION.

STATEMENT OF SPECIAL INSPECTION AND TESTING NOTES:

1. SPECIAL INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE REFERENCE CODES AND STANDARDS LISTED IN NOTE 2. REFER TO TABLES 1 AND 2 FOR SPECIAL INSPECTION AND TABLES 3 AND 4 FOR TESTING REQUIREMENTS.
2. REFERENCE CODES AND STANDARDS ARE AS FOLLOWS:

IBC 2015
ACI 318–14
AWC SDPWS 2015
AWS CURRENT EDITION
ASTM CURRENT EDITION
AISC 360–10
341–10
RCSC 2009
3. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED QUALIFIED TESTING AND INSPECTING AGENCY MEETING THE REQUIREMENTS OF ASTM E 329 (MATERIALS), ASTM D 3740 (SOILS), ASTM C 1077 (CONCRETE), ASTM A 880 (STEEL), AND ASTM E 543 (NON–DESTRUCTIVE). THE TESTING AND INSPECTING AGENCY SHALL FURNISH TO THE STRUCTURAL ENGINEER AND OWNER A COPY OF THEIR SCOPE OF ACCREDITATION. SPECIAL INSPECTORS SHALL BE CERTIFIED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1.1 OF AWS D1.1. AND WABO.
4. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS. ISSUES REQUIRING IMMEDIATE CORRECTIVE ACTIONS OR ENGINEERING INPUT ARE TO BE BROUGHT TO THE ENGINEER’S ATTENTION IMMEDIATELY UPON DISCOVERY.
5. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER, CONTRACTOR, AND OWNER. THE TESTING AND INSPECTING AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.
6. CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
7. WHERE PERIODIC INSPECTION IS ALLOWED IN ACCORDANCE WITH THE ANCHOR ICC/IAPMO EVALUATION REPORT, INSPECTIONS SHALL BE AS FOLLOWS:

–FOR ALL ANCHORS, PRIOR TO CONCEALMENT, VERIFY: ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR SPACING AND EDGE DISTANCE.
–FOR EACH ANCHOR TYPE AND SIZE, INSPECTOR SHALL BE ONSITE TO CONTINUOUSLY INSPECT A MINIMUM OF THE FIRST 10 ANCHORS INSTALLED BY EACH INSTALLER FOR CONFORMANCE WITH ICC/IAPMO EVALUATION REPORT. PROVIDED ALL ANCHORS ARE INSTALLED CORRECTLY PER MANUFACTURER’S INSTRUCTIONS, PROVIDE PERIODIC INSPECTION ON A MINIMUM OF 10% OF THE NEXT 1000 ANCHORS BY EACH INSTALLER AND A MINIMUM OF 5% OF THE REMAINING ANCHORS BY EACH INSTALLER. INSPECTIONS SHALL OCCUR A MINIMUM OF ONCE PER WEEK AT A RANDOM TIME WHILE ANCHOR INSTALLATION IS ONGOING. ANY NON–COMPLIANCE ISSUES SHALL RESET THE INSPECTION REQUIREMENTS TO TEN (10) CONTINUOUS INSPECTIONS. NON–COMPLIANT ANCHORS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD FOR REVIEW AND SHALL BE BROUGHT INTO COMPLIANCE BY EITHER TESTING OR RE–INSTALLATION.

–INSPECTION REPORTS SHALL IDENTIFY NAMES OF INSTALLERS.
–SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTATION AT THE END OF ANCHOR INSTALLATIONS STATING THAT THE MINIMUM NUMBER OF ANCHORS WERE INSPECTED.
8. OBSERVE: OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM: PERFORM THESE TASKS FOR EACH ELEMENT.
9. INDICATED CONCRETE TESTING MEETS MINIMUM REQUIREMENTS FOR STRUCTURAL TESTING TO BE PROVIDED BY THE APPROVED QUALIFIED TESTING AND INSPECTING AGENCY. ADDITIONAL TESTING FOR CONSTRUCTION CONSIDERATIONS ARE NOT INDICATED AND SHALL BE DETERMINED BY THE CONTRACTOR AND PROVIDED AT CONTRACTOR’S EXPENSE.

CONTRACTOR RESPONSIBILITY:

FOR SEISMIC DESIGN CATEGORY C, D, E AND F STRUCTURES, THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND OR SEISMIC FORCE–RESISTING SYSTEM, OR A WIND OR SEISMIC FORCE–RESISTING COMPONENT LISTED IN TABLES 2C, 3 AND 4. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR’S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR’S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

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

STATEMENT OF STRUCTURAL
SPECIAL INSPECTIONS – TOLL PLAZA

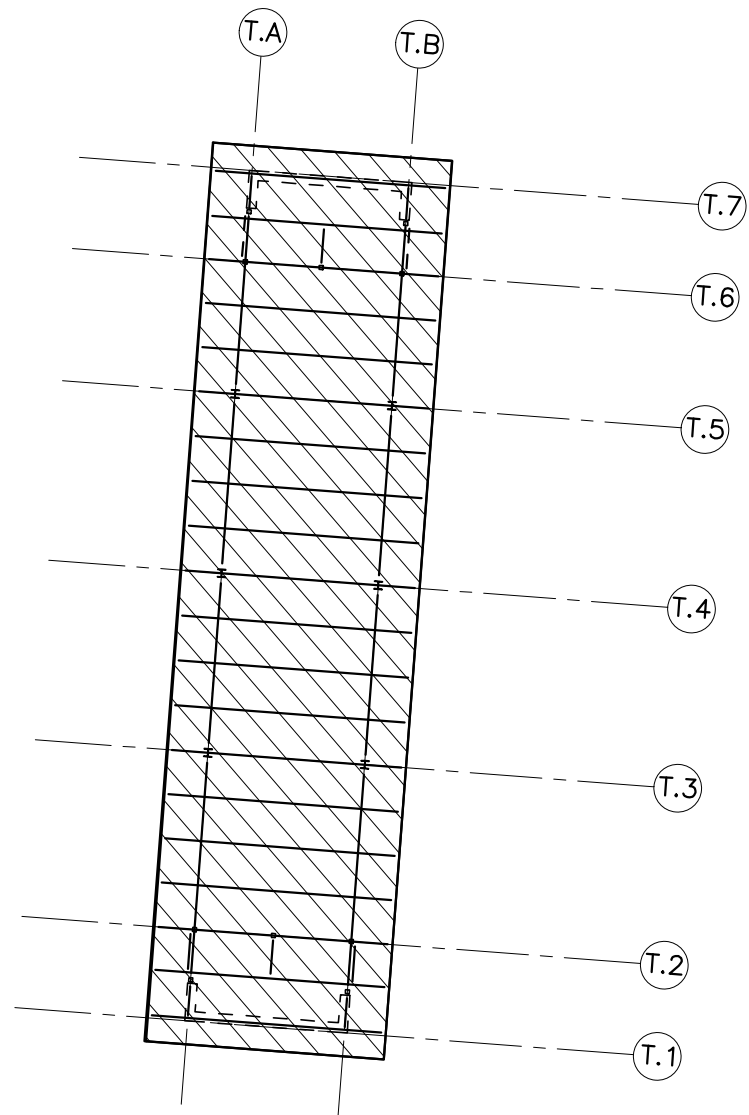
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MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

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ROOF LIVE LOAD = 20 psf
SNOW LOAD = 25 psf
SUPERIMPOSED DEAD LOAD = 18 psf

TOLL PLAZA – ROOF LOAD MAP

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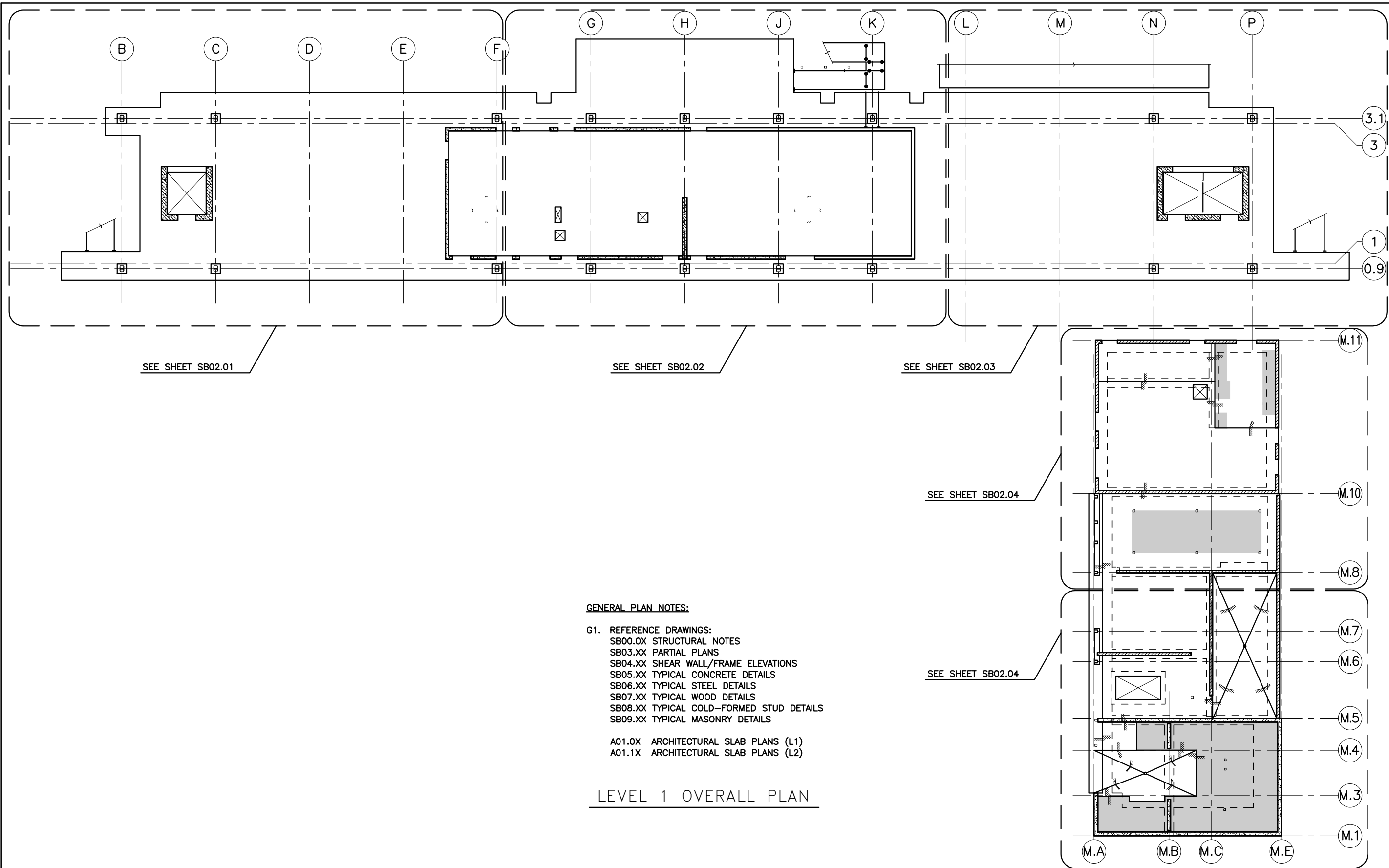
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FERRY TERMINAL CONSTRUCTION

LOAD MAPS
(TOLL PLAZA)

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- GENERAL PLAN NOTES:**
- G1. REFERENCE DRAWINGS:
SB00.0X STRUCTURAL NOTES
SB03.XX PARTIAL PLANS
SB04.XX SHEAR WALL/FRAME ELEVATIONS
SB05.XX TYPICAL CONCRETE DETAILS
SB06.XX TYPICAL STEEL DETAILS
SB07.XX TYPICAL WOOD DETAILS
SB08.XX TYPICAL COLD-FORMED STUD DETAILS
SB09.XX TYPICAL MASONRY DETAILS
- A01.0X ARCHITECTURAL SLAB PLANS (L1)
A01.1X ARCHITECTURAL SLAB PLANS (L2)

LEVEL 1 OVERALL PLAN

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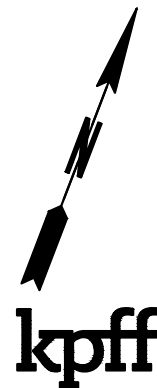
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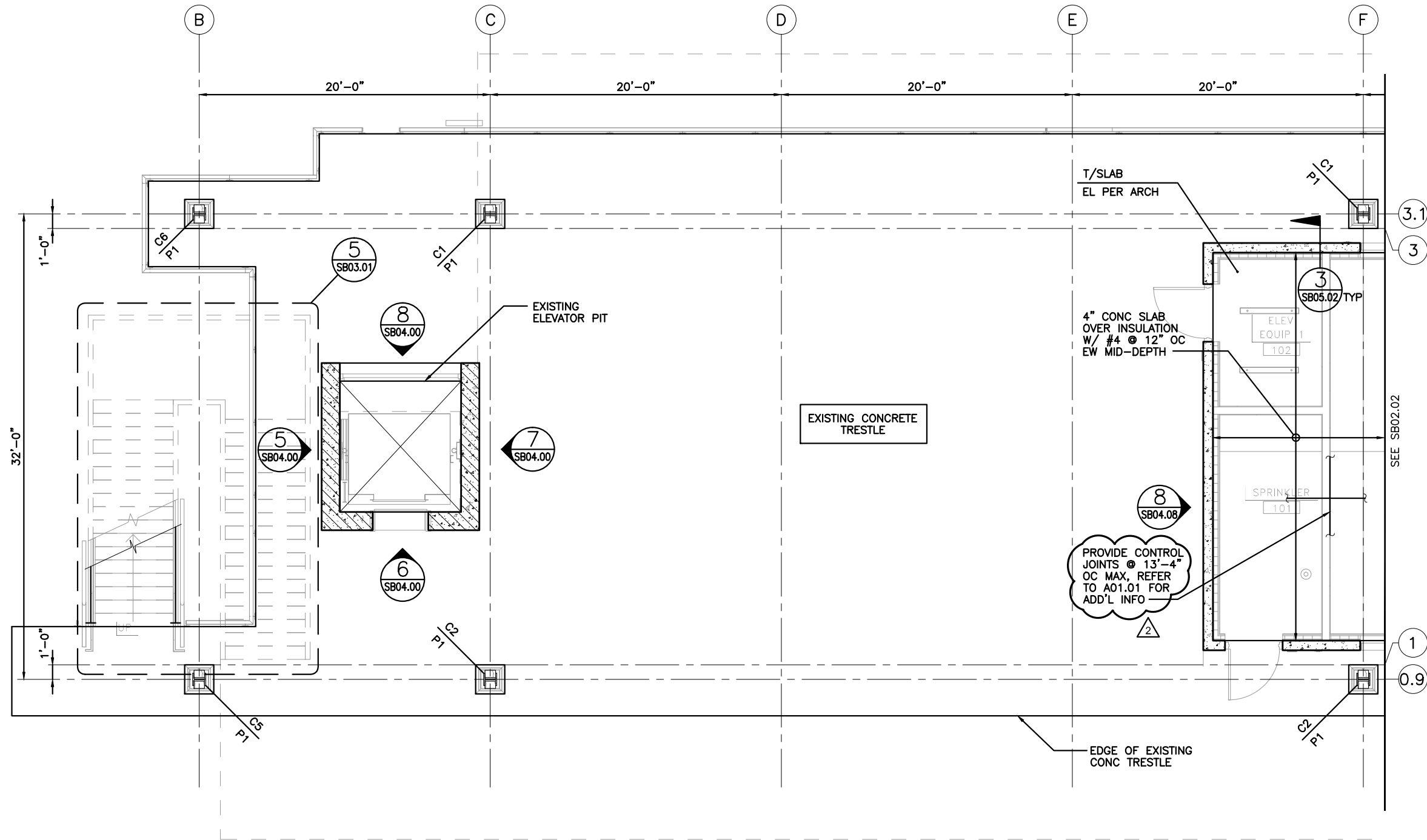
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FERRY TERMINAL CONSTRUCTION

TERMINAL – LEVEL 1 – OVERALL PLAN

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LEVEL 1 SECTOR A PLAN

GENERAL PLAN NOTES:

- G1. REFERENCE DRAWINGS:
SB00.XX STRUCTURAL NOTES
SB03.XX PARTIAL PLANS
SB04.XX SHEAR WALL/FRAME ELEVATIONS
SB05.XX TYPICAL CONCRETE DETAILS
SB06.XX TYPICAL STEEL DETAILS
SB07.XX TYPICAL WOOD DETAILS
SB08.XX TYPICAL COLD-FORMED STUD DETAILS
SB09.XX TYPICAL MASONRY DETAILS

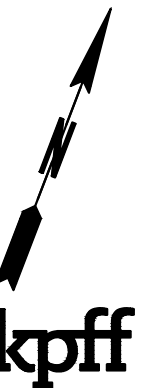
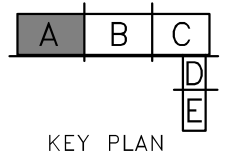
- A01.0X ARCHITECTURAL SLAB PLANS (L1)
A01.1X ARCHITECTURAL SLAB PLANS (L2)

CONCRETE PLAN NOTES:

- C1. TOP OF EXISTING CONCRETE
ELEVATION = 20'-3"± (VERIFY IN
FIELD)
C2. PX INDICATES CONCRETE PLINTH PER
SB05.02.
C3. INDICATES SHEAR WALL REQUIRED
FOR LATERAL FORCE RESISTING
SYSTEM. WALLS ARE REQUIRED
FOR FULL HEIGHT AS SHOWN.

STEEL PLAN NOTES:

- S1. CX INDICATES STEEL AND WOOD
COLUMN PER SB06.00.



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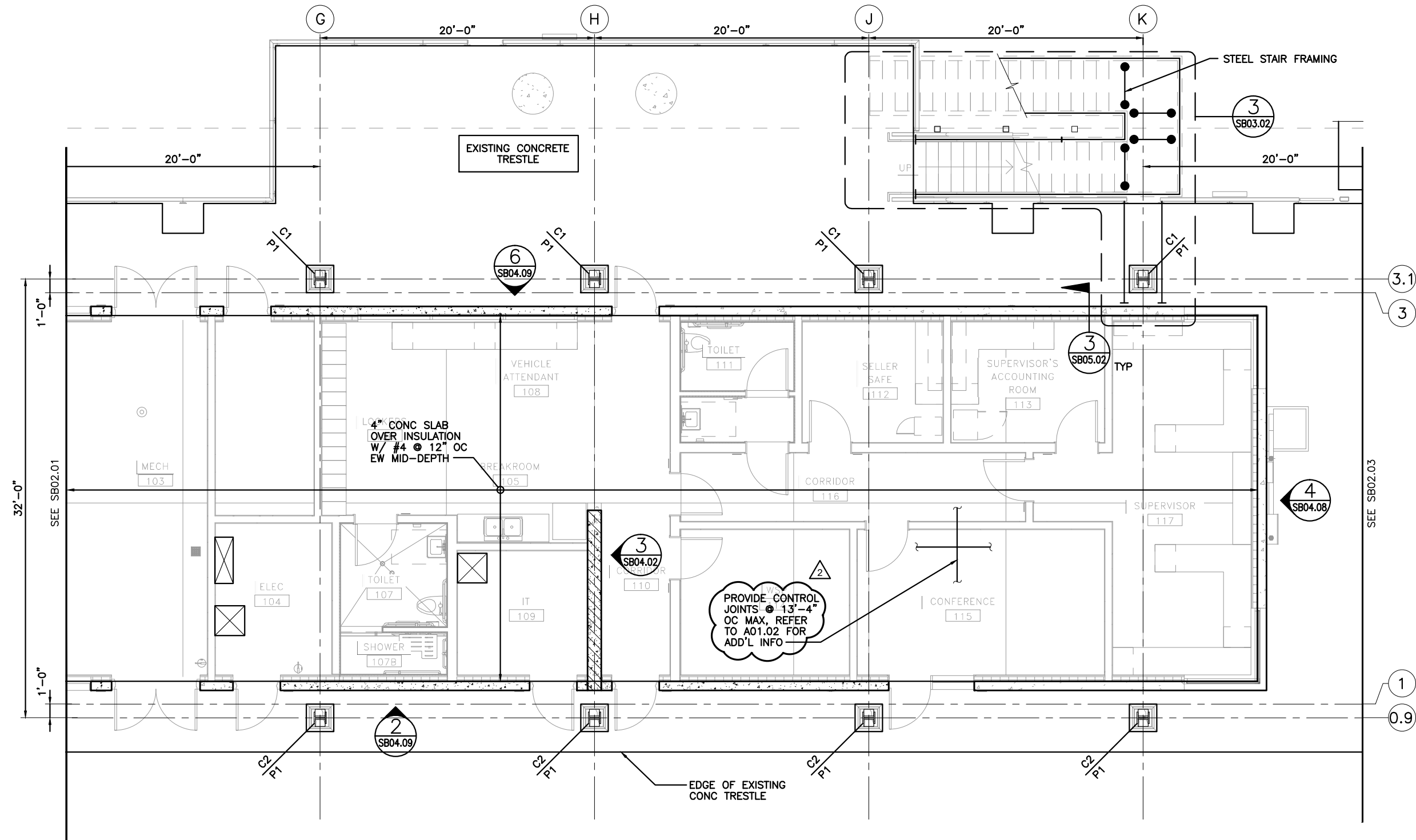
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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - LEVEL 1 - SECTOR A PLAN

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LEVEL 1 SECTOR B PLAN

GENERAL PLAN NOTES:

- G1. REFERENCE DRAWINGS:
SB00.0X STRUCTURAL NOTES
SB03.XX PARTIAL PLANS
SB04.XX SHEAR WALL/FRAME ELEVATIONS
SB05.XX TYPICAL CONCRETE DETAILS
SB06.XX TYPICAL STEEL DETAILS
SB07.XX TYPICAL WOOD DETAILS
SB08.XX TYPICAL COLD-FORMED STUD DETAILS
SB09.XX TYPICAL MASONRY DETAILS

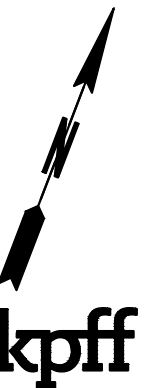
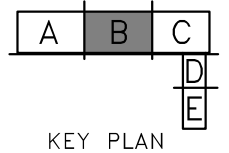
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A01.1X ARCHITECTURAL SLAB PLANS (L2)

CONCRETE PLAN NOTES:

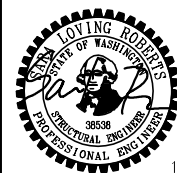
- C1. TOP OF EXISTING CONCRETE
ELEVATION = 20'-3"± (VERIFY IN FIELD)
C2. PX INDICATES CONCRETE PLINTH PER SB05.02.
C3.  INDICATES SHEAR WALL REQUIRED FOR LATERAL FORCE RESISTING SYSTEM. WALLS ARE REQUIRED FOR FULL HEIGHT AS SHOWN.

STEEL PLAN NOTES:

- S1. CX INDICATES STEEL AND WOOD COLUMN PER SB06.00.



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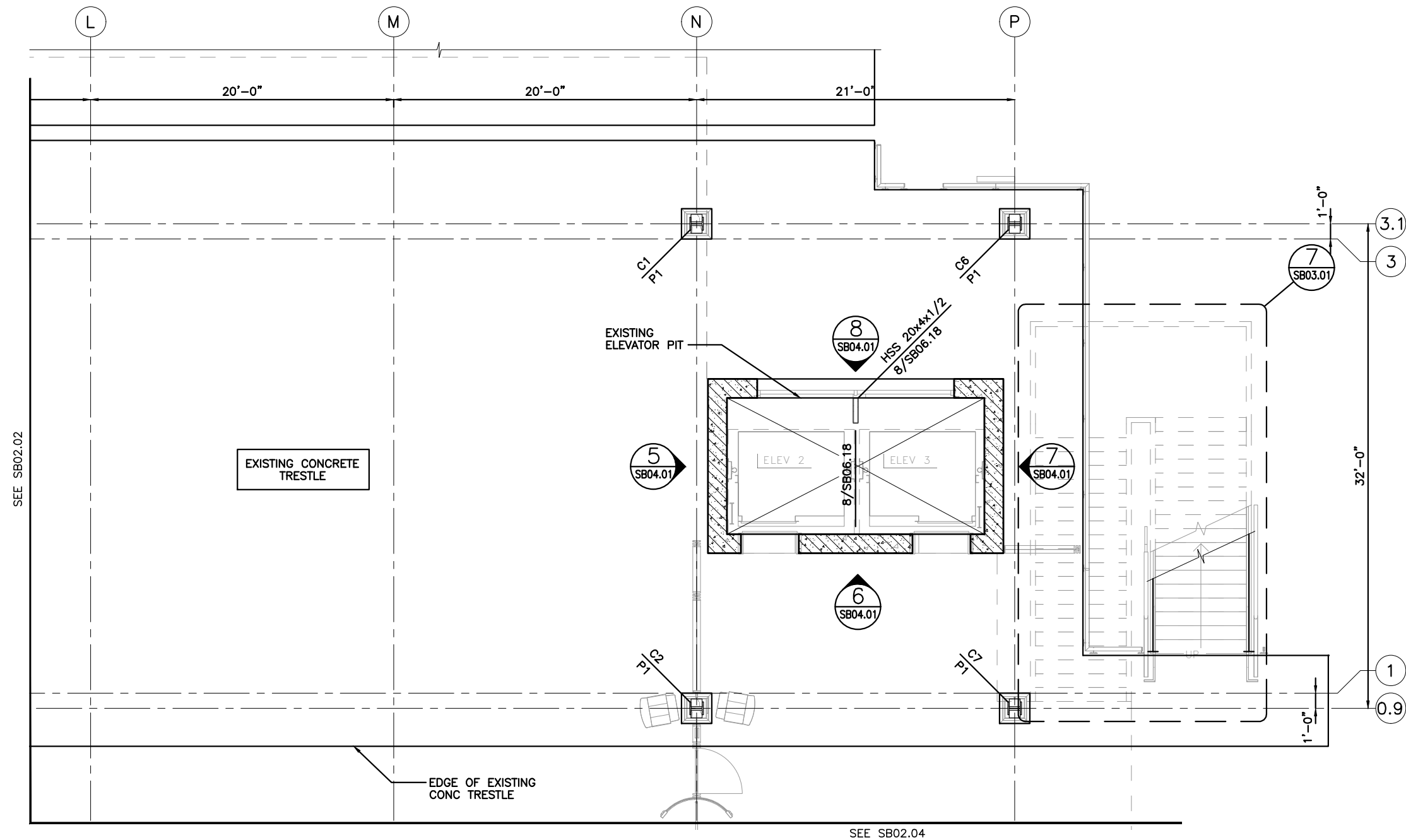
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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - LEVEL 1 - SECTOR B PLAN

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LEVEL 1 SECTOR C PLAN

GENERAL PLAN NOTES:

- G1. REFERENCE DRAWINGS:
SB00.0X STRUCTURAL NOTES
SB03.XX PARTIAL PLANS
SB04.XX SHEAR WALL/FRAME ELEVATIONS
SB05.XX TYPICAL CONCRETE DETAILS
SB06.XX TYPICAL STEEL DETAILS
SB07.XX TYPICAL WOOD DETAILS
SB08.XX TYPICAL COLD-FORMED STUD DETAILS
SB09.XX TYPICAL MASONRY DETAILS

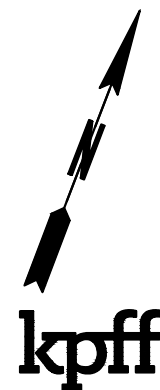
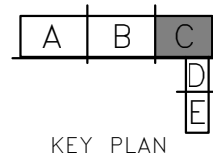
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A01.1X ARCHITECTURAL SLAB PLANS (L2)

CONCRETE PLAN NOTES:

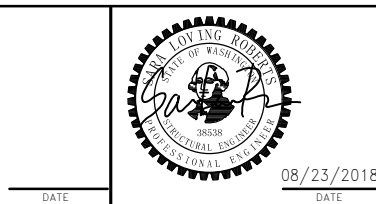
- C1. TOP OF EXISTING CONCRETE
ELEVATION = 20'-3"± (VERIFY IN
FIELD)
- C2. PX INDICATES CONCRETE PLINTH PER
SB05.02.
- C3. INDICATES SHEAR WALL REQUIRED
FOR LATERAL FORCE RESISTING
SYSTEM. WALLS ARE REQUIRED
FOR FULL HEIGHT AS SHOWN.

STEEL PLAN NOTES:

- S1. CX INDICATES STEEL AND WOOD
COLUMN PER SB06.00.

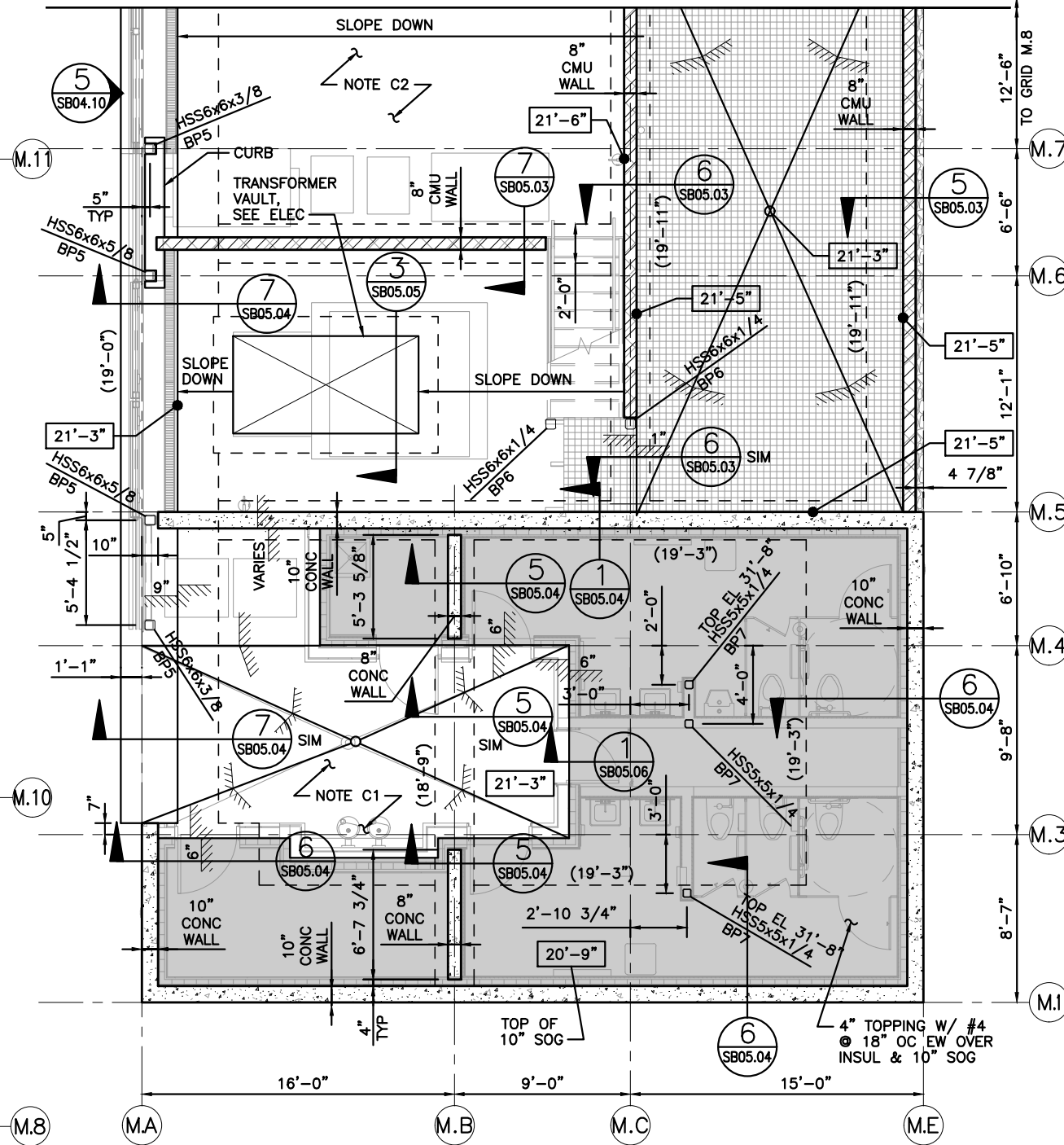


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ASST SECRETARY:	A. SCARTON					CONTRACT NO.			
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SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION		SB02.03
TERMINAL - LEVEL 1 - SECTOR C PLAN		SHEET 1105 OF 1521 SHEETS

SEE SECTOR D PLAN



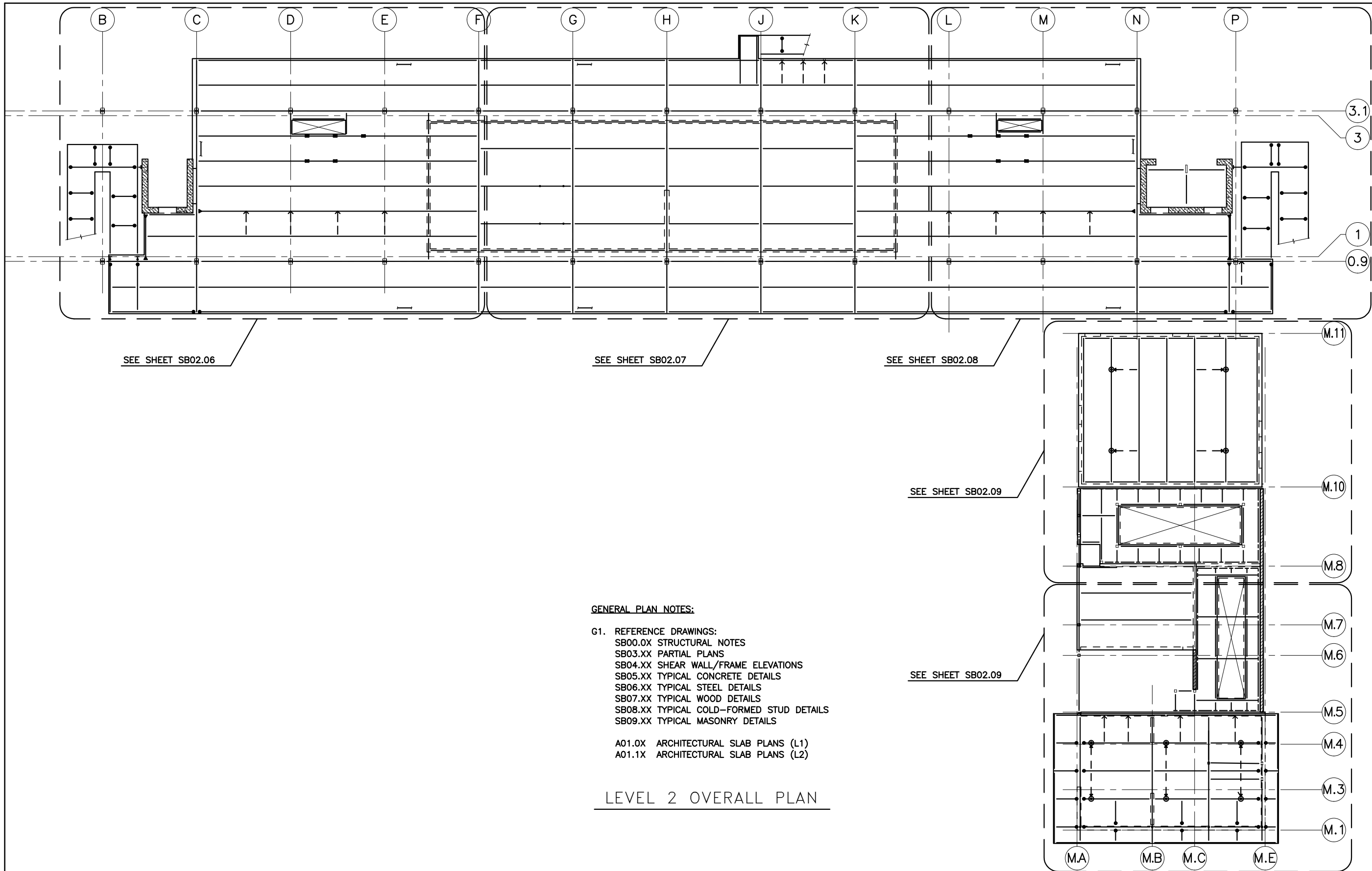
LEVEL 1 SECTOR E PLAN

kpff

SB02.04

SHEET
1106
OF
1521
SHEETS

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Plotted: 9/21/18 at 2:38pm By: DianeL



- GENERAL PLAN NOTES:**
- G1. REFERENCE DRAWINGS:
SB00.0X STRUCTURAL NOTES
SB03.XX PARTIAL PLANS
SB04.XX SHEAR WALL/FRAME ELEVATIONS
SB05.XX TYPICAL CONCRETE DETAILS
SB06.XX TYPICAL STEEL DETAILS
SB07.XX TYPICAL WOOD DETAILS
SB08.XX TYPICAL COLD-FORMED STUD DETAILS
SB09.XX TYPICAL MASONRY DETAILS
- A01.0X ARCHITECTURAL SLAB PLANS (L1)
A01.1X ARCHITECTURAL SLAB PLANS (L2)

LEVEL 2 OVERALL PLAN

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ENTERED BY: B. RONIA		08/23/2018				10 WASH	
CHECKED BY: A. EWING		08/23/2018				JOB NUMBER	
MAR PROJ ENGR C. TORRES						18W121	
DIR TERM ENGR: N. MCINTOSH						CONTRACT NO.	
ASST SECRETARY: A. SCARTON						00****	
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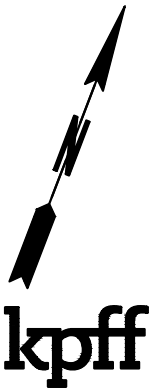


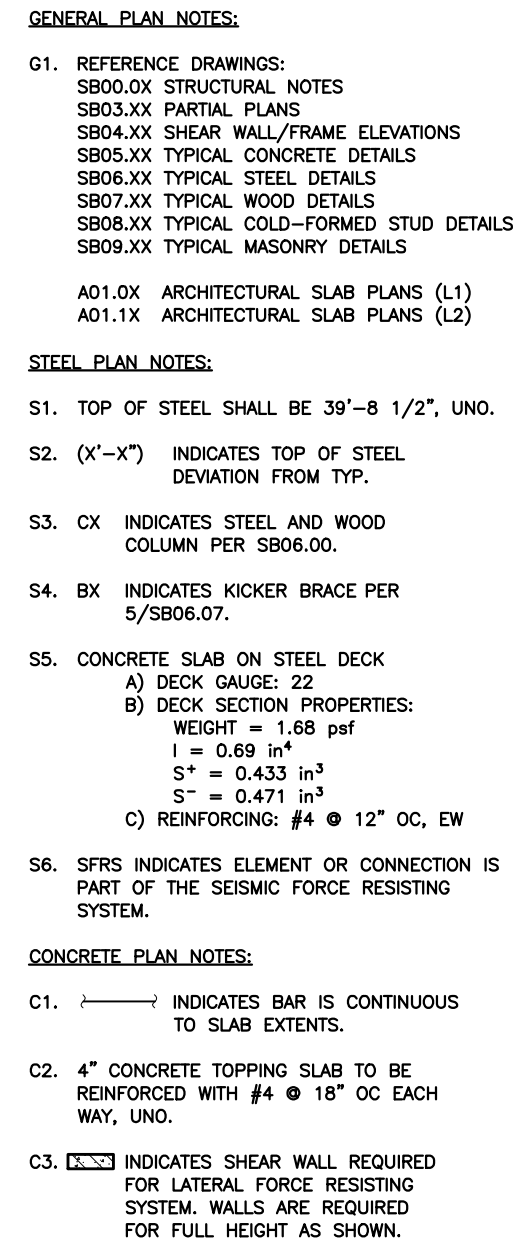
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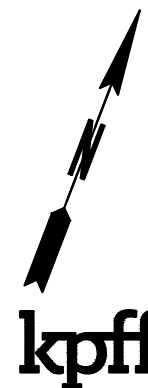
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL – LEVEL 2 – OVERALL PLAN

SB02.05
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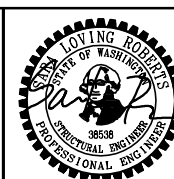




KEY PLAN



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ENTERED BY: B. RONIA		08/23/2018					10 WASH
CHECKED BY: A. EWING		08/23/2018					JOB NUMBER 18W121
MAR PROJ ENGR C. TORRES							CONTRACT NO. 00****
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ASST SECRETARY: A. SCARTON				REVISION	DATE	BY	



11/01/2018



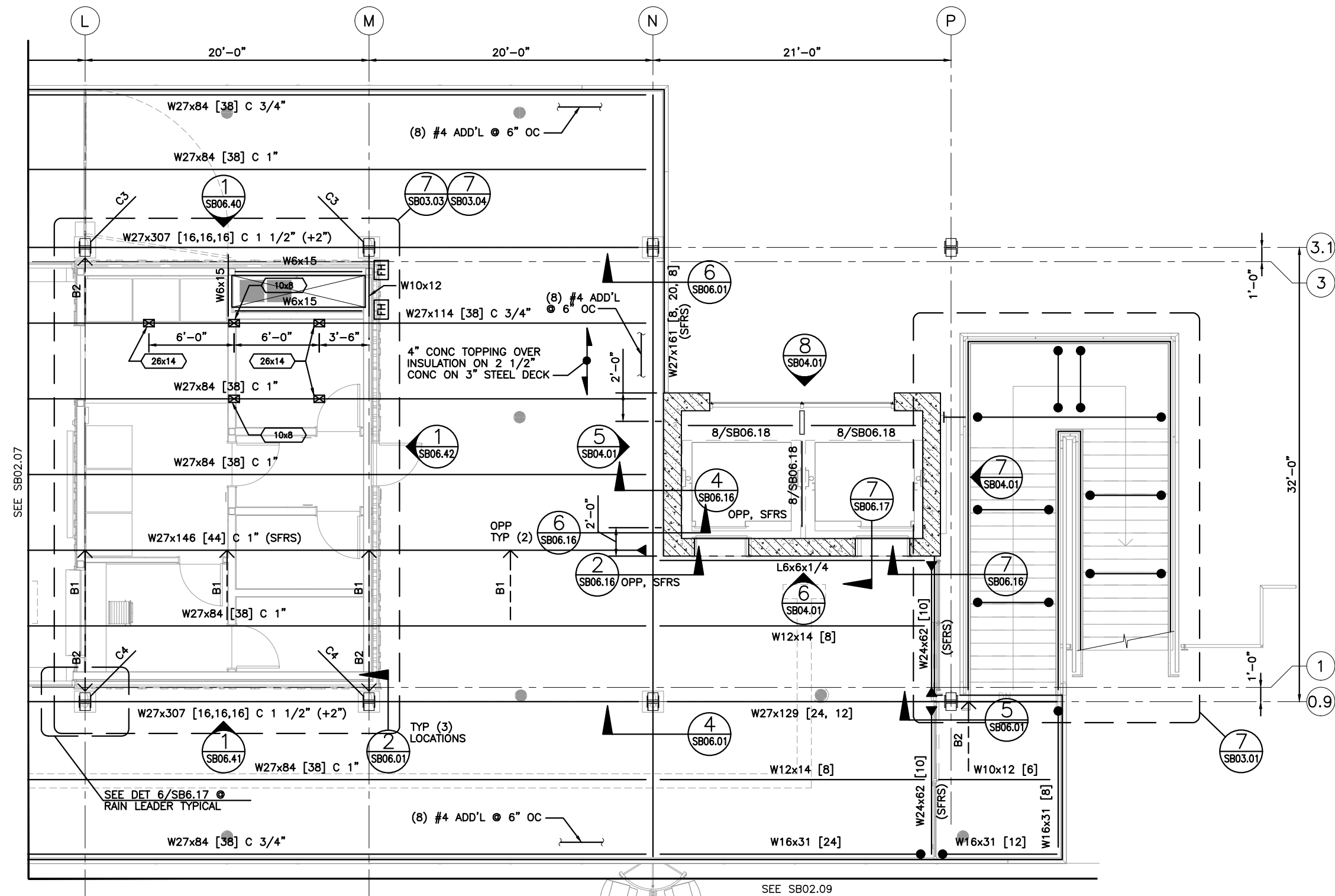
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SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION
TERMINAL - LEVEL 2 - SECTOR A PLAN

SB02.06

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LEVEL 2 SECTOR C PLAN

GENERAL PLAN NOTES:

- G1. REFERENCE DRAWINGS:
SB00.0X STRUCTURAL NOTES
SB03.XX PARTIAL PLANS
SB04.XX SHEAR WALL/FRAME ELEVATIONS
SB05.XX TYPICAL CONCRETE DETAILS
SB06.XX TYPICAL STEEL DETAILS
SB07.XX TYPICAL WOOD DETAILS
SB08.XX TYPICAL COLD-FORMED STUD DETAILS
SB09.XX TYPICAL MASONRY DETAILS

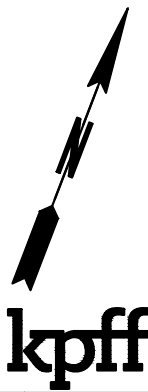
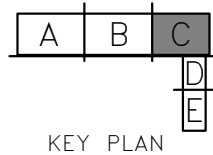
A01.0X ARCHITECTURAL SLAB PLANS (L1)
A01.1X ARCHITECTURAL SLAB PLANS (L2)

STEEL PLAN NOTES:

- S1. TOP OF STEEL SHALL BE 39'-8 1/2", UNO.
S2. (X'-X") INDICATES TOP OF STEEL DEVIATION FROM TYP.
S3. CX INDICATES STEEL AND WOOD COLUMN PER SB06.00.
S4. BX INDICATES KICKER BRACE PER 5/SB06.07.
S5. CONCRETE SLAB ON STEEL DECK
A) DECK GAUGE: 22
B) DECK SECTION PROPERTIES:
WEIGHT = 1.68 psf
I = 0.69 in⁴
S⁺ = 0.433 in³
S⁻ = 0.471 in³
C) REINFORCING: #4 @ 12" OC, EW
S6. SFRS INDICATES ELEMENT OR CONNECTION IS PART OF THE SEISMIC FORCE RESISTING SYSTEM.

CONCRETE PLAN NOTES:

- C1. ——— INDICATES BAR IS CONTINUOUS TO SLAB EXTENTS.
C2. 4" CONCRETE TOPPING SLAB TO BE REINFORCED WITH #4 @ 18" OC EACH WAY, UNO.
C3. [Hatched Box] INDICATES SHEAR WALL REQUIRED FOR LATERAL FORCE RESISTING SYSTEM. WALLS ARE REQUIRED FOR FULL HEIGHT AS SHOWN.



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ENTERED BY: B. RONIA	08/23/2018			10 WASH	
CHECKED BY: A. EWING	08/23/2018			JOB NUMBER	
MAR PROJ ENGR C. TORRES				18W121	
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.	
ASST SECRETARY: A. SCARTON				00****	
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08/23/2018



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - LEVEL 2 - SECTOR C PLAN

SB02.08
SHEET
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OF
1521
SHEETS

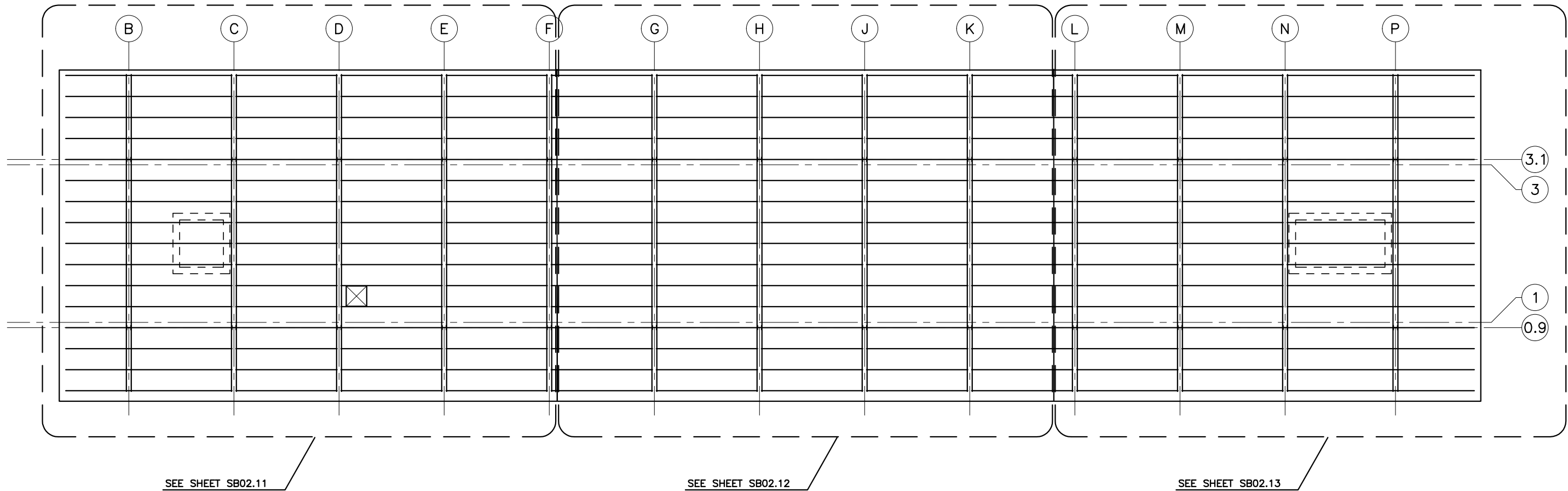


- M1. XME INDICATES STEEL BEAM CONNECTION
TO CMU WALL PER 5/SB09.01.

KEY PLAN



File: U:\14000-114350\114177 (Mukilteo Ferry Terminal)\02 Plans\14W121SB02_10.dwg
Plotted: 9/21/18 at 2:38pm By: DianeL



GENERAL PLAN NOTES:

- G1. REFERENCE DRAWINGS:
SB00.XX STRUCTURAL NOTES
SB03.XX PARTIAL PLANS
SB04.XX SHEAR WALL/FRAME ELEVATIONS
SB05.XX TYPICAL CONCRETE DETAILS
SB06.XX TYPICAL STEEL DETAILS
SB07.XX TYPICAL WOOD DETAILS
SB08.XX TYPICAL COLD-FORMED STUD DETAILS
SB09.XX TYPICAL MASONRY DETAILS

ROOF FRAMING OVERALL PLAN

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ENTERED BY: B. RONIA		08/23/2018						10 WASH			
CHECKED BY: A. EWING		08/23/2018						JOB NUMBER			
MAR PROJ ENGR C. TORRES								18W121			
DIR TERM ENGR: N. MCINTOSH								CONTRACT NO.			
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08/23/2018

DATE

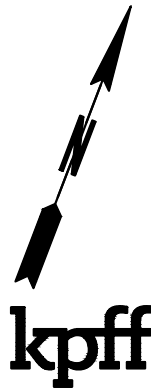


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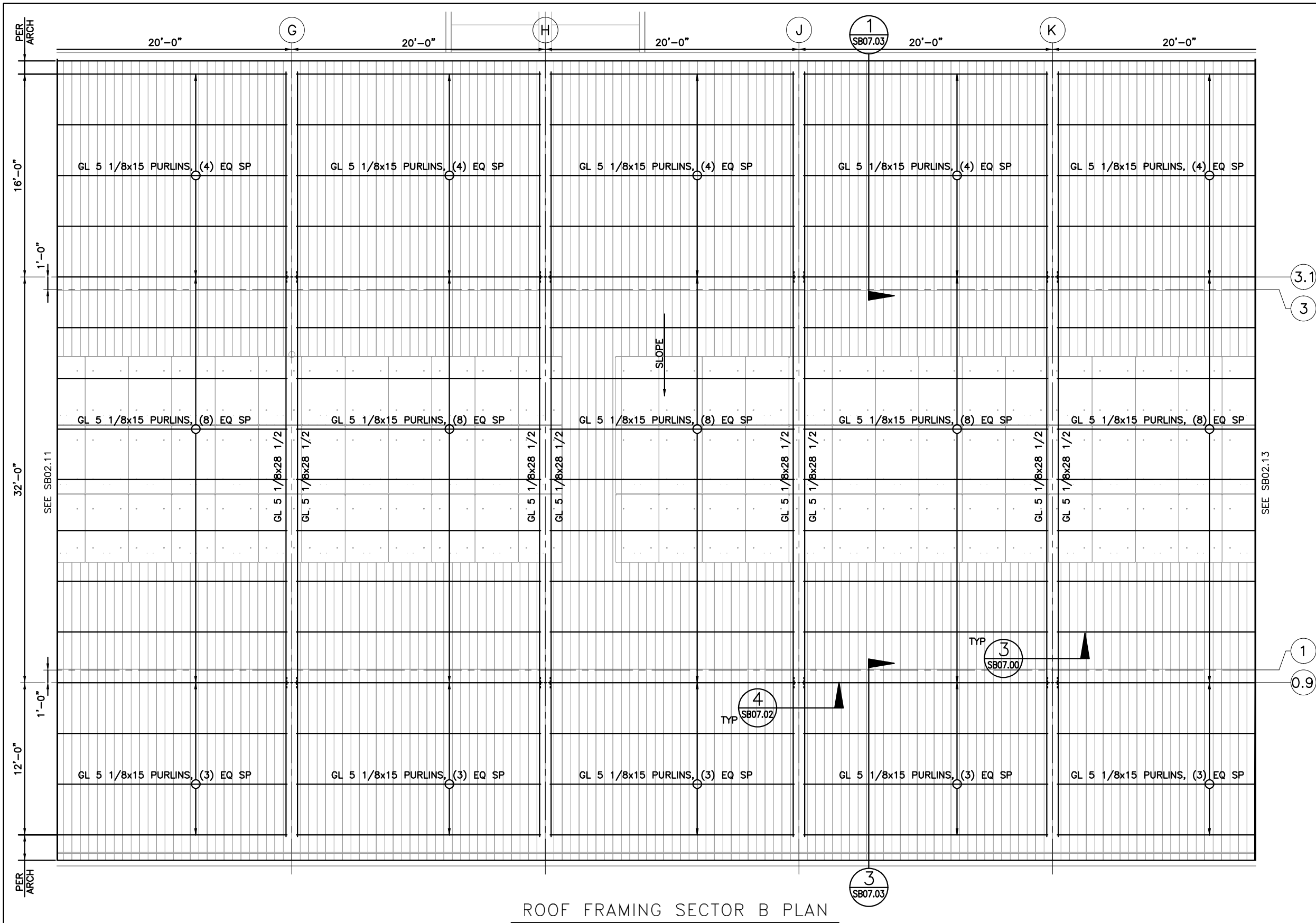
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL – ROOF FRAMING –
OVERALL PLAN

SB02.10

SHEET
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OF
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SHEETS



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Plotted: 9/21/18 at 2:38pm By: DianeL



- GENERAL PLAN NOTES:**
- G1. REFERENCE DRAWINGS:
 - SB00.0X STRUCTURAL NOTES
 - SB03.XX PARTIAL PLANS
 - SB04.XX SHEAR WALL/FRAME ELEVATIONS
 - SB05.XX TYPICAL CONCRETE DETAILS
 - SB06.XX TYPICAL STEEL DETAILS
 - SB07.XX TYPICAL WOOD DETAILS
 - SB08.XX TYPICAL COLD-FORMED STUD DETAILS
 - SB09.XX TYPICAL MASONRY DETAILS
- WOOD PLAN NOTES:**
- W1. ROOF SLOPE AND TOP OF WOOD FRAMING PER ARCH.
 - W2. SEE SB02.14 FOR ROOF DIAPHRAGM PLANS.

A

B

C

D

E

KEY PLAN

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ENTERED BY: B. RONIA	08/23/2018		
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MAR PROJ ENGR: C. TORRES			
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ASST SECRETARY: A. SCARTON			
REVISION	DATE	BY	

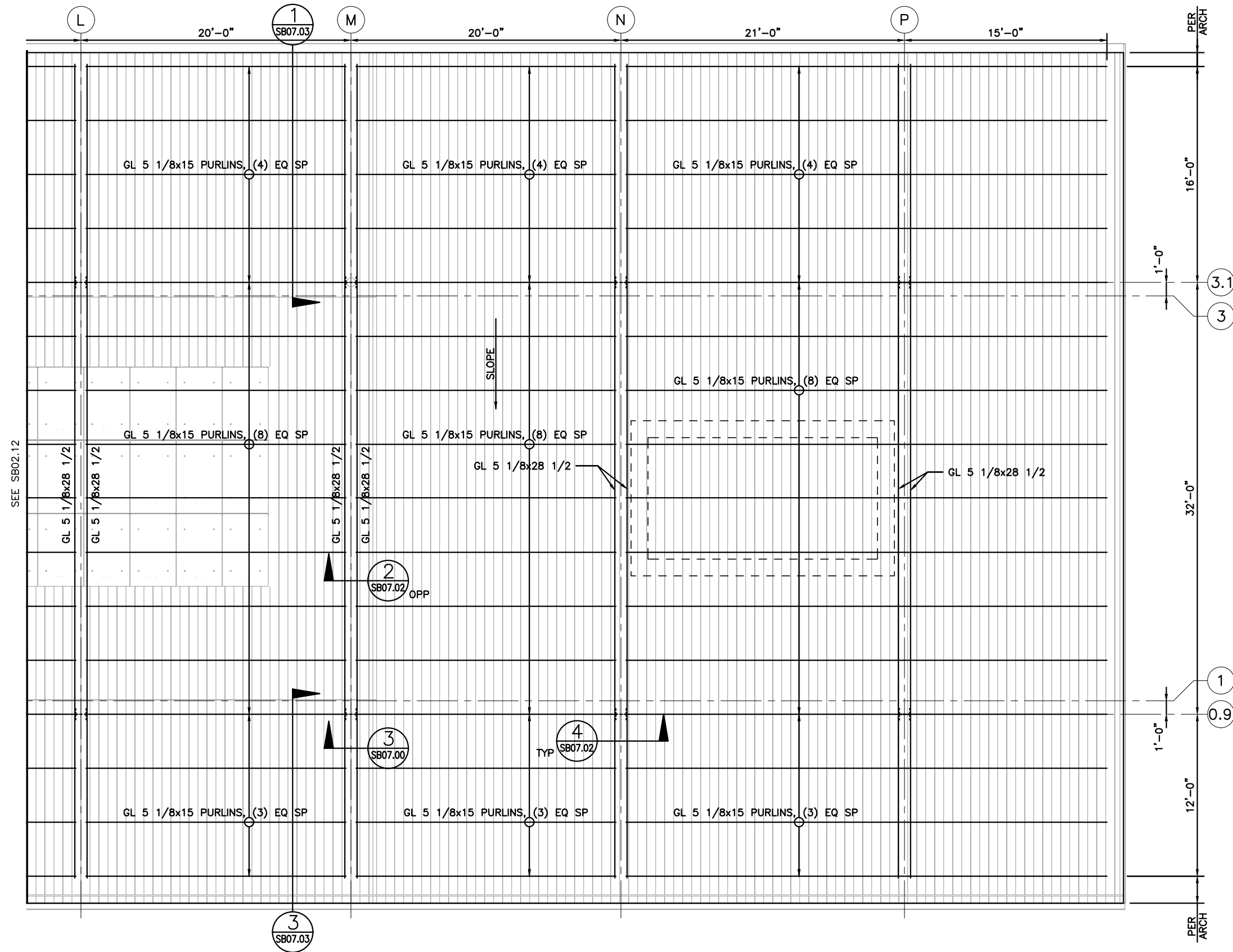
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REGION NO. STATE	10 WASH
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CONTRACT NO.	00****

DATE 08/23/2018

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SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	SB02.12
TERMINAL – ROOF FRAMING – SECTOR B PLAN	SHEET 1114 OF 1521 SHEETS

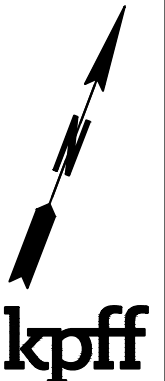
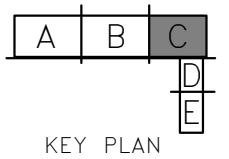
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ROOF FRAMING SECTOR C PLAN

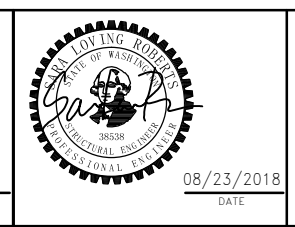
- GENERAL PLAN NOTES:**
- G1. REFERENCE DRAWINGS:
 - SB00.OX STRUCTURAL NOTES
 - SB03.XX PARTIAL PLANS
 - SB04.XX SHEAR WALL/FRAME ELEVATIONS
 - SB05.XX TYPICAL CONCRETE DETAILS
 - SB06.XX TYPICAL STEEL DETAILS
 - SB07.XX TYPICAL WOOD DETAILS
 - SB08.XX TYPICAL COLD-FORMED STUD DETAILS
 - SB09.XX TYPICAL MASONRY DETAILS

- WOOD PLAN NOTES:**
- W1. ROOF SLOPE AND TOP OF WOOD FRAMING PER ARCH.
 - W2. SEE SB02.14 FOR ROOF DIAPHRAGM PLANS.



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ENTERED BY: B. RONIA	08/23/2018		
CHECKED BY: A. EWING	08/23/2018		
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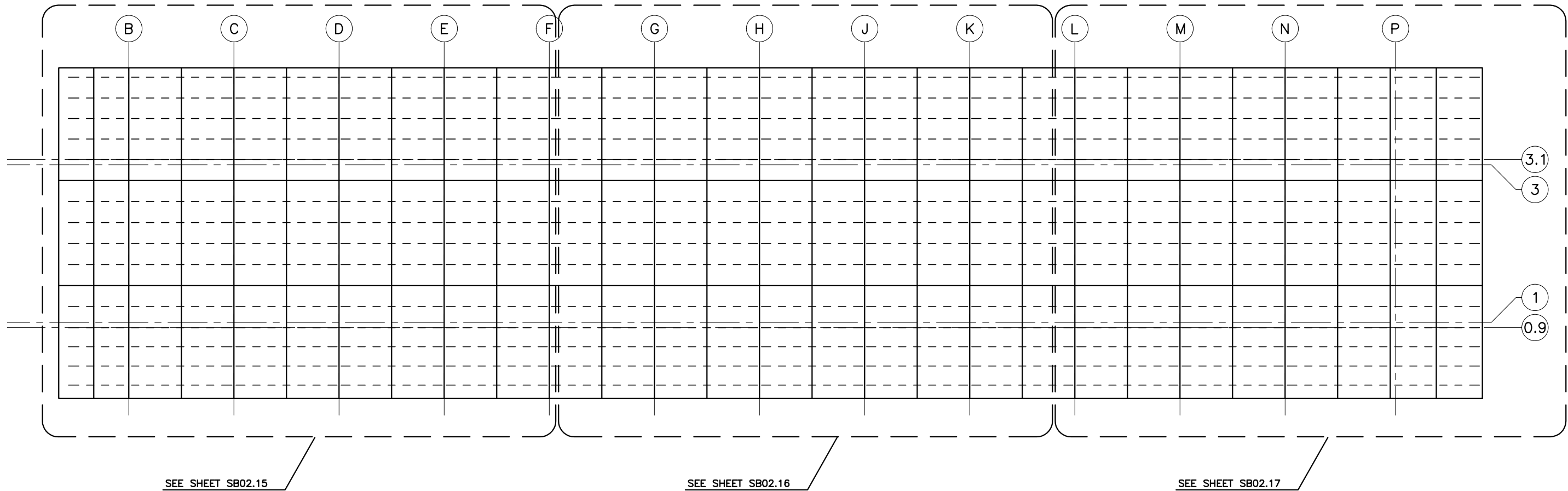
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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL - ROOF FRAMING - SECTOR C PLAN

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OF
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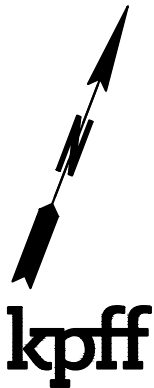
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GENERAL PLAN NOTES:

- G1. REFERENCE DRAWINGS:
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SB03.XX PARTIAL PLANS
SB04.XX SHEAR WALL/FRAME ELEVATIONS
SB05.XX TYPICAL CONCRETE DETAILS
SB06.XX TYPICAL STEEL DETAILS
SB07.XX TYPICAL WOOD DETAILS
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ROOF DIAPHRAGM OVERALL PLAN



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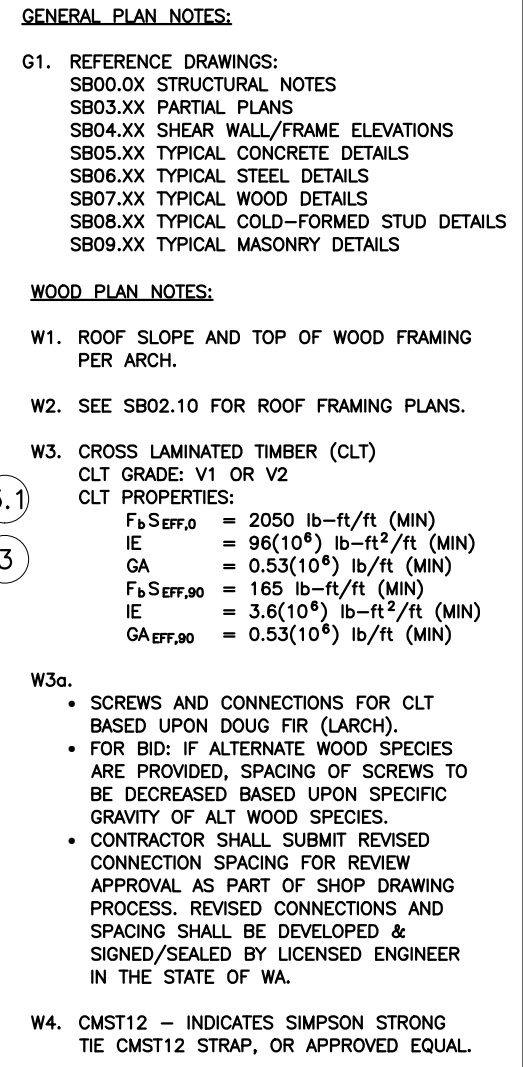


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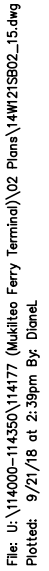
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MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TERMINAL – ROOF DIAPHRAGM –
OVERALL PLAN


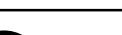
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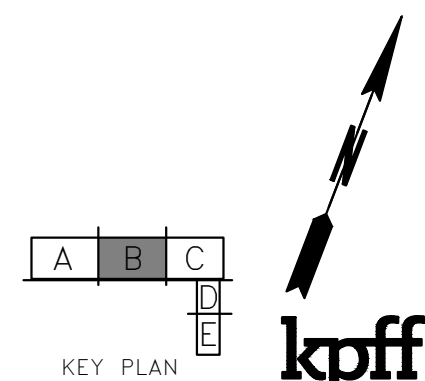
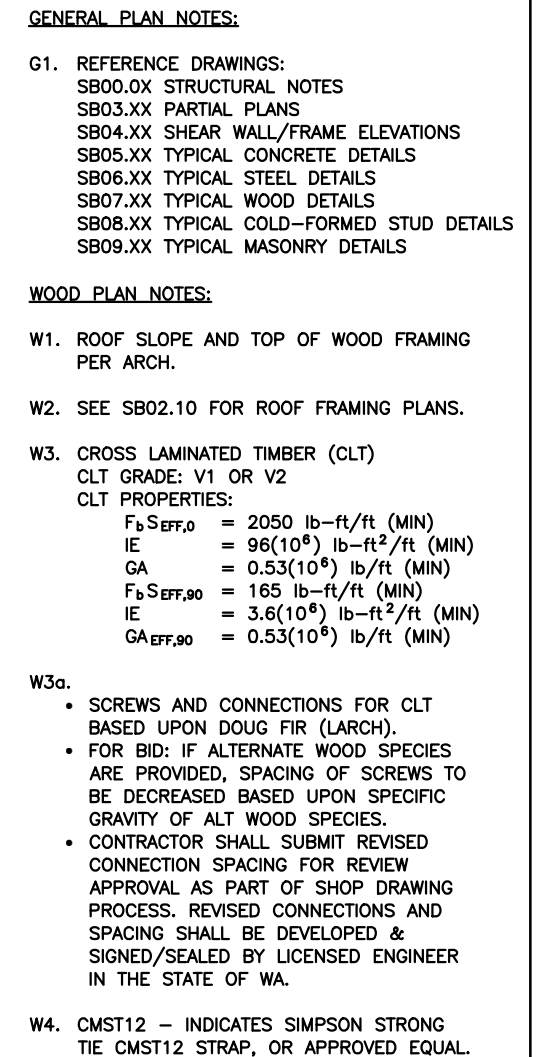
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OF
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KEY PLAN



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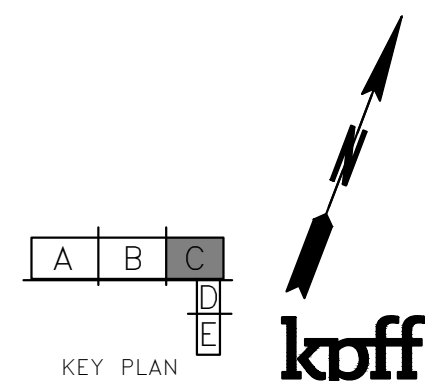
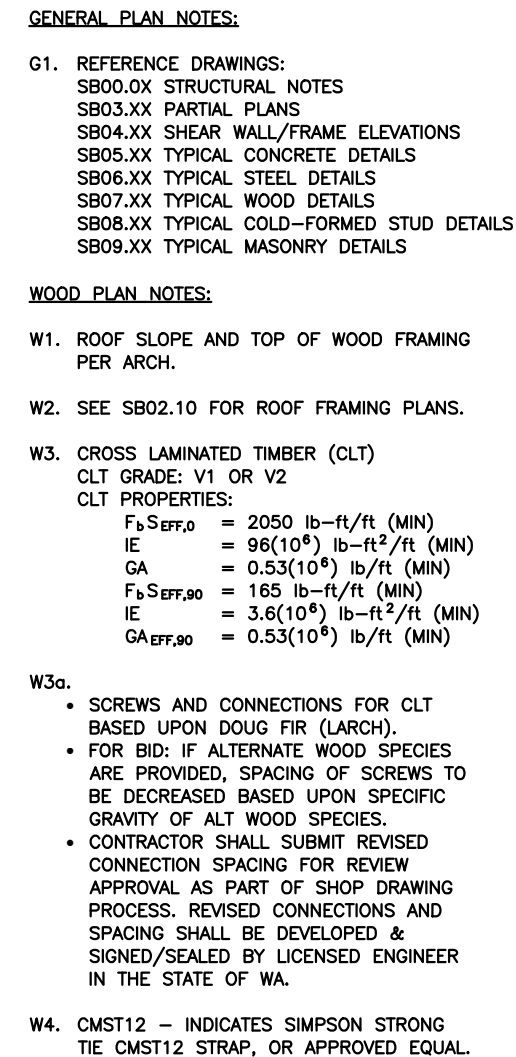


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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

TERMINAL – ROOF DIAPHRAGM –
SECTOR B PLAN

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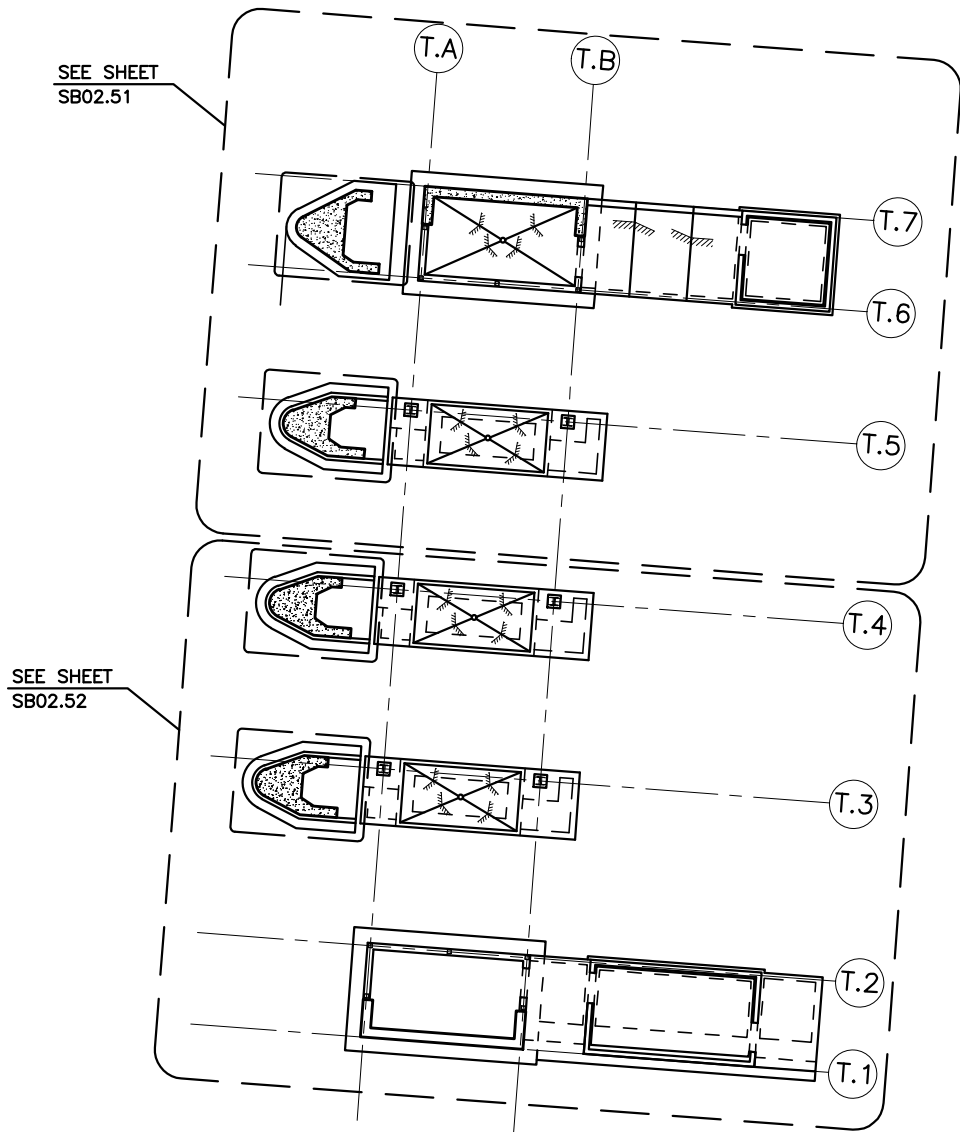
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

TERMINAL – ROOF DIAPHRAGM –
SECTOR C PLAN

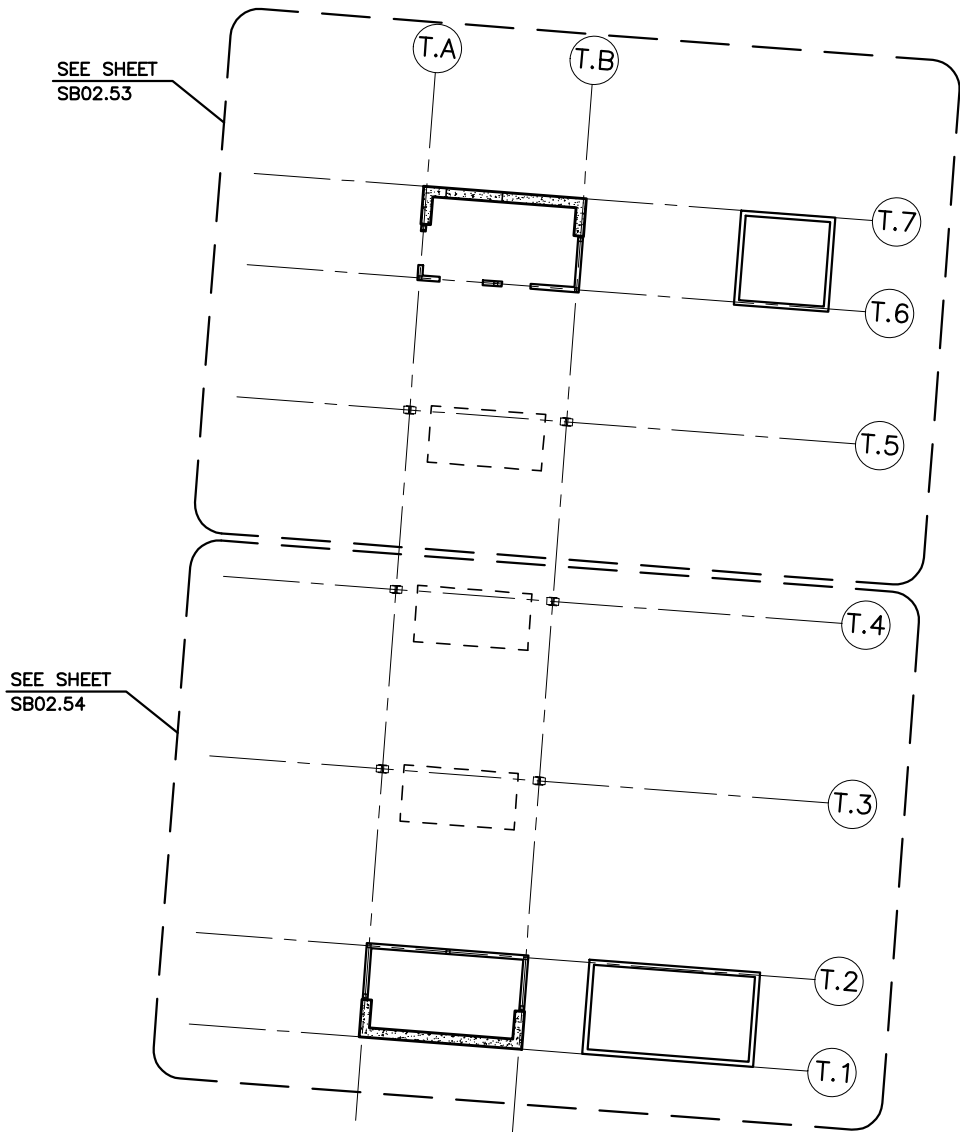
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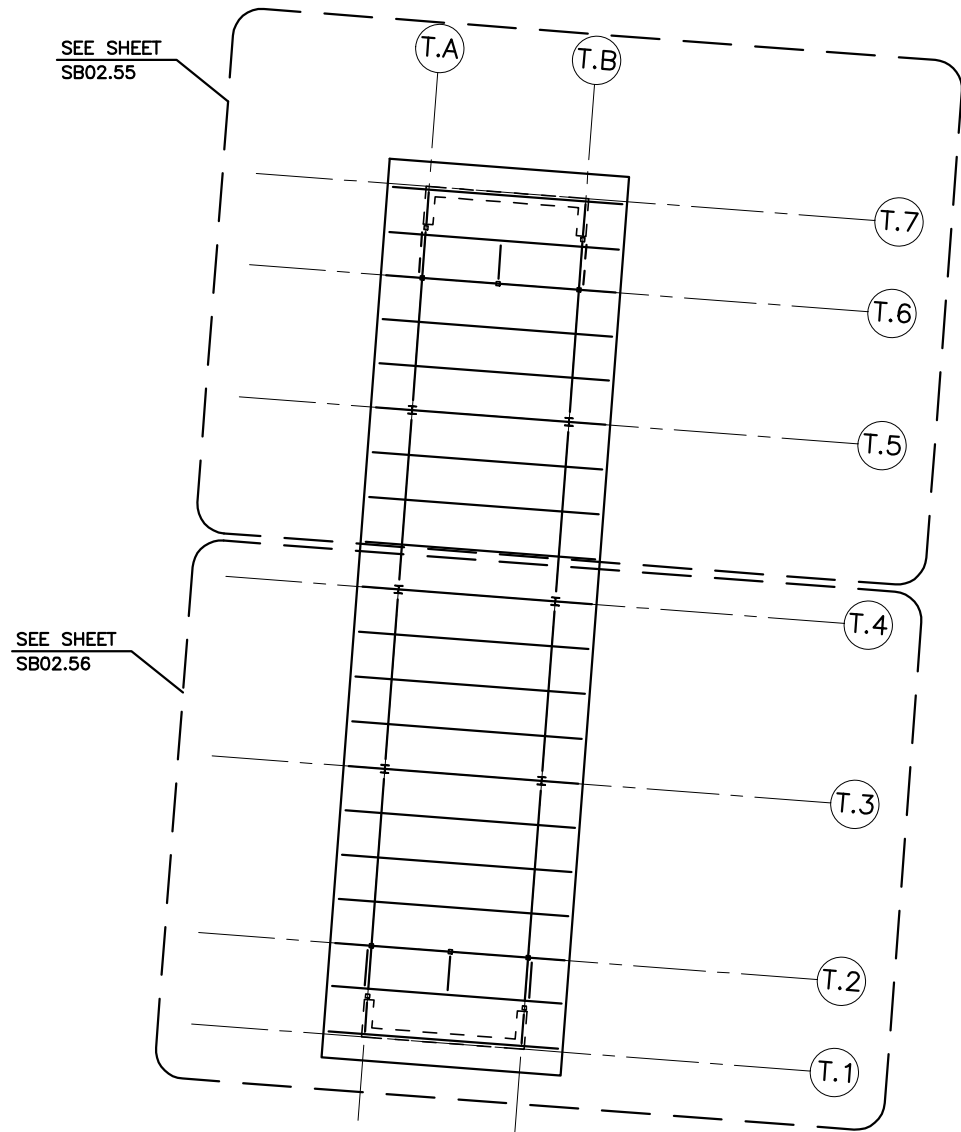
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- G1. REFERENCE DRAWINGS:
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SB03.XX PARTIAL PLANS
SB04.XX SHEAR WALL/FRAME ELEVATIONS
SB05.XX TYPICAL CONCRETE DETAILS
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SB08.XX TYPICAL COLD-FORMED STUD DETAILS
SB09.XX TYPICAL MASONRY DETAILS



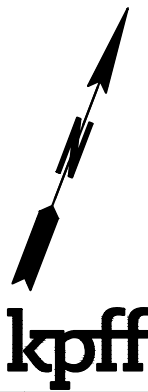
TOLL PLAZA – LEVEL 1
OVERALL PLAN



TOLL PLAZA – INTERMEDIATE
ROOF OVERALL PLAN



TOLL PLAZA –
ROOF OVERALL PLAN



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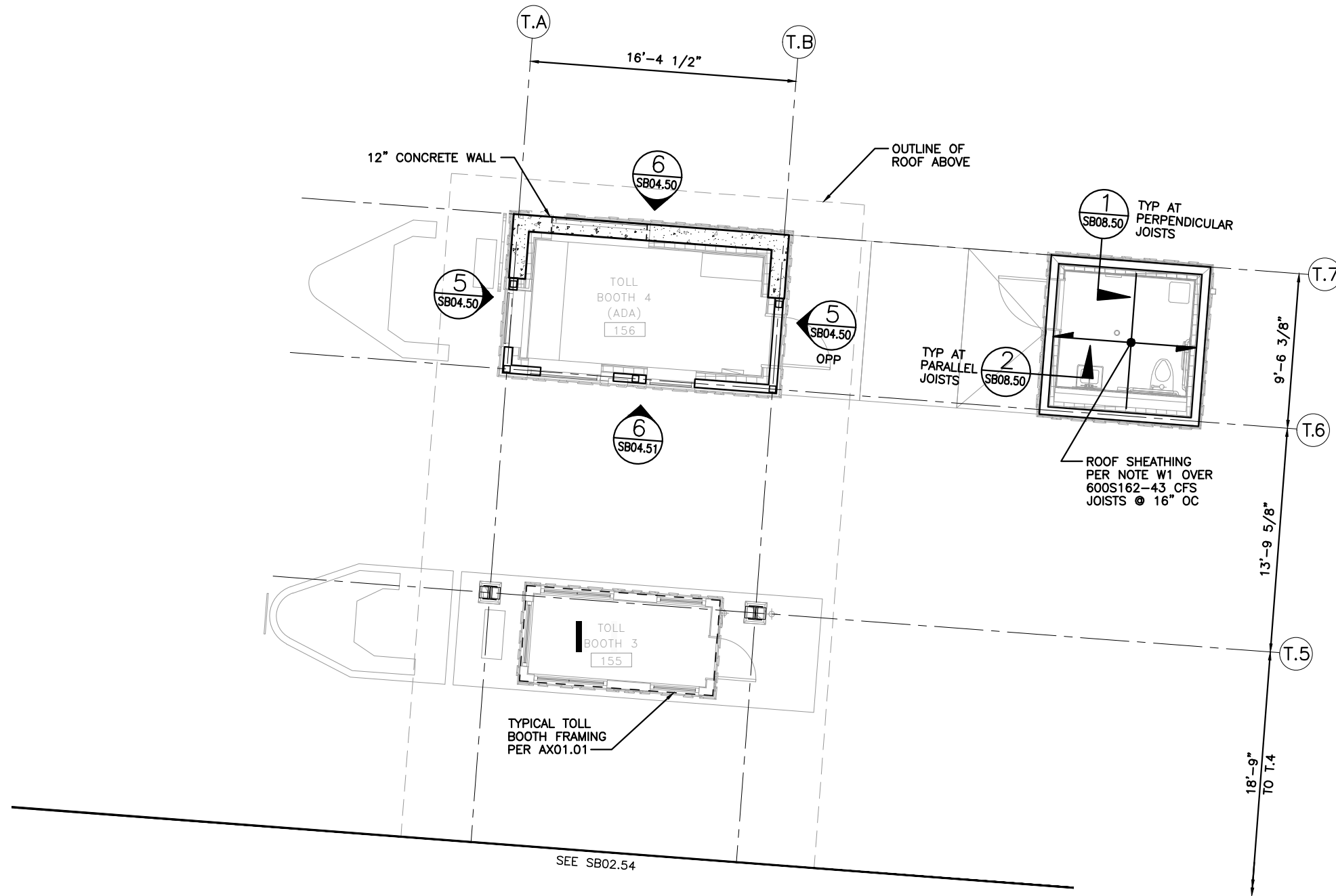
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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TOLL PLAZA – OVERALL PLANS

SB02.50
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Plotted: 9/21/18 at 2:39pm By: DianeL



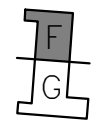
INTERMEDIATE ROOF SECTOR F PLAN

GENERAL PLAN NOTES:

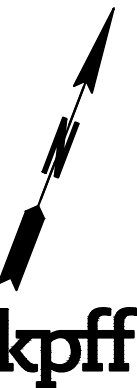
- G1. REFERENCE DRAWINGS:
SB00.OX STRUCTURAL NOTES
SB03.XX PARTIAL PLANS
SB04.XX SHEAR WALL/FRAME ELEVATIONS
SB05.XX TYPICAL CONCRETE DETAILS
SB06.XX TYPICAL STEEL DETAILS
SB07.XX TYPICAL WOOD DETAILS
SB08.XX TYPICAL COLD-FORMED STUD DETAILS
SB09.XX TYPICAL MASONRY DETAILS

WOOD FRAMING PLAN NOTES:

- W1. ROOF CONSTRUCTION TO BE 15/32" RATED SHEATHING PER STRUCTURAL NOTES. FASTEN TO JOISTS WITH #8 SCREWS @ 6" OC AT ALL PANEL EDGES AND 12" OC @ ALL OTHER SUPPORTS. STAGGER PANEL JOINTS.



KEY PLAN



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SUBMITTAL DATE:	08/23/2018					WA-2017-007-00			
DESIGNED BY:	A. RADKE	08/23/2018				REGION NO. STATE			
ENTERED BY:	B. RONIA	08/23/2018				10 WASH			
CHECKED BY:	A. EWING	08/23/2018				JOB NUMBER			
MAR PROJ ENGR	C. TORRES					18W121			
DIR TERM ENGR:	N. MCINTOSH					CONTRACT NO.			
ASST SECRETARY:	A. SCARTON					00****			
		REVISION	DATE	BY					

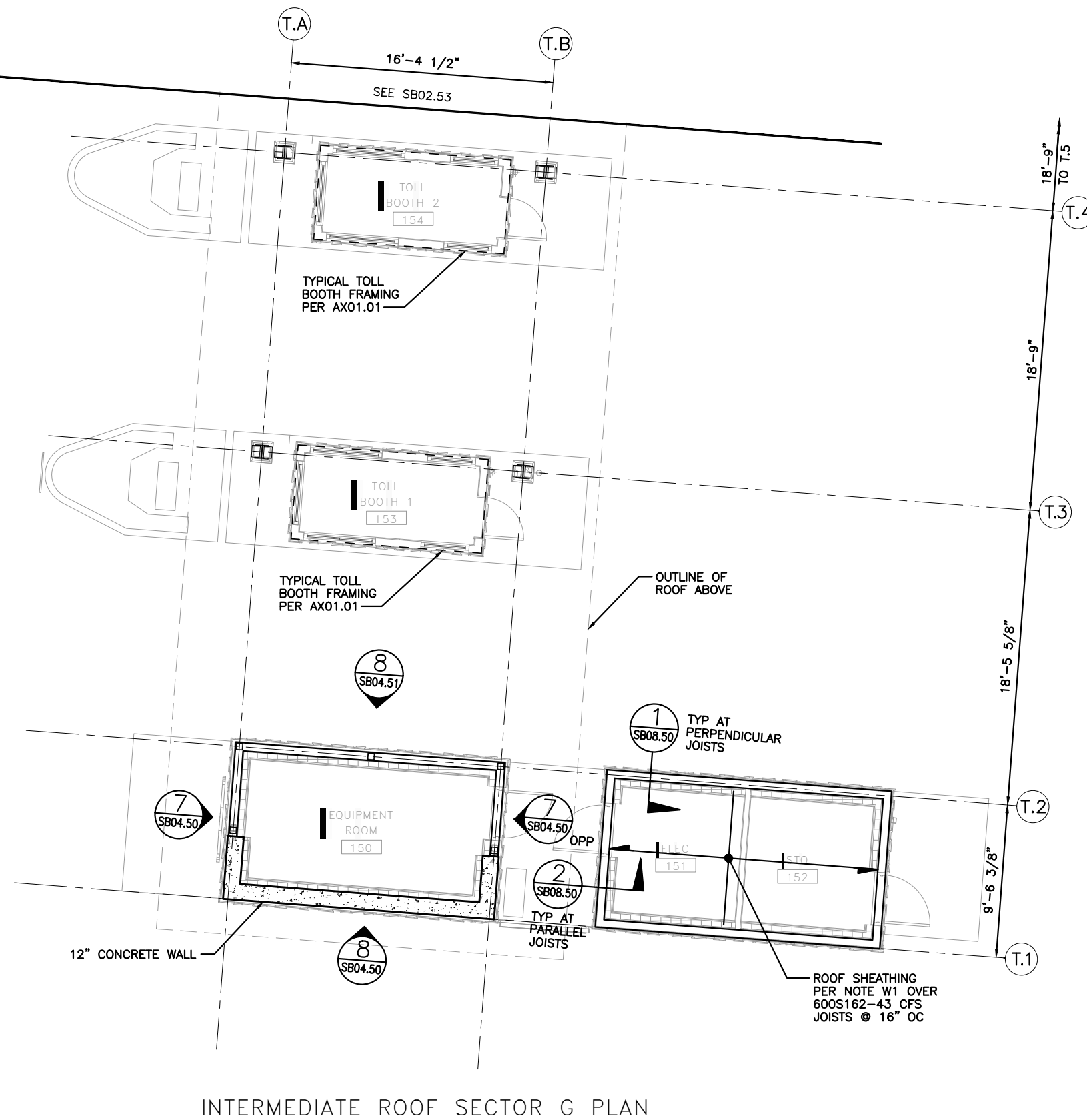


08/23/2018



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TOLL PLAZA – INTERMEDIATE ROOF –
SECTOR F PLAN

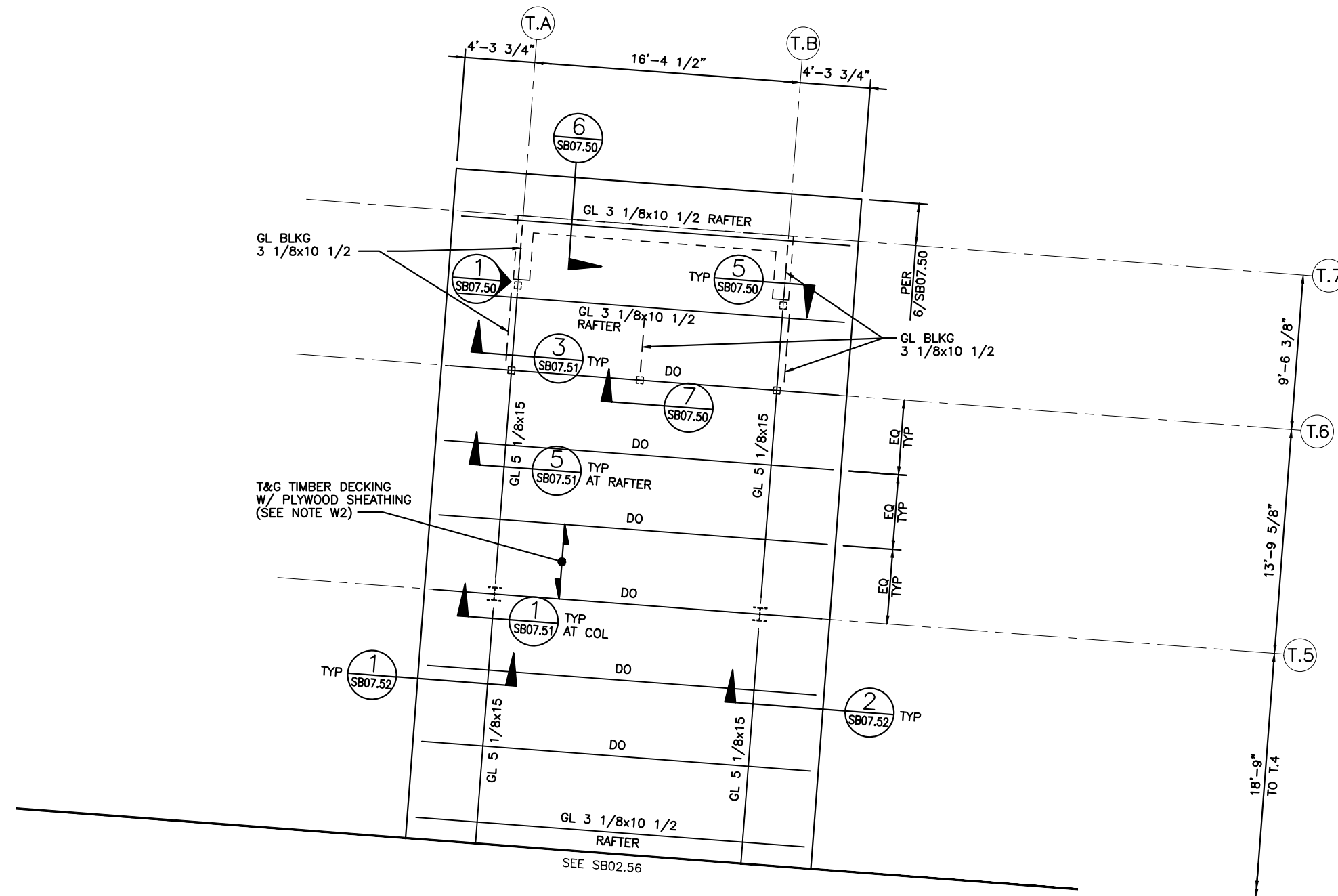
SB02.53
SHEET
1123
OF
1521
SHEETS



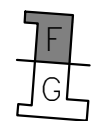
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SB00.XX STRUCTURAL NOTES
SB03.XX PARTIAL PLANS
SB04.XX SHEAR WALL/FRAME ELEVATIONS
SB05.XX TYPICAL CONCRETE DETAILS
SB06.XX TYPICAL STEEL DETAILS
SB07.XX TYPICAL WOOD DETAILS
SB08.XX TYPICAL COLD-FORMED STUD DETAILS
SB09.XX TYPICAL MASONRY DETAILS

W1. "GL" INDICATES GLULAM BEAMS.

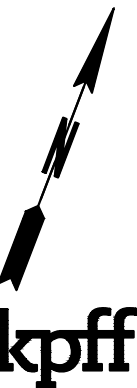
- W2. ROOF CONSTRUCTION TO BE 15/32" PLYWOOD ROOF SHEATHING ATTACHED TO TIMBER DECKING WITH 16 GA x 1 1/2" STAPLES WITH 7/16" CROWN (C) 6" OC AT ALL PANEL EDGES AND (C) 12" OC AT 2'-0" SPACING ALONG SHEATHING. TIMBER DECKING SHALL BE 2x6 TONGUE AND GROOVE, DOUGLAS FIR LARCH SELECT GRADE. INSTALL DECK IN CONTROLLED RANDOM LAY-UP ARRANGEMENT PER AITC 112. ATTACH DECKING TO SUPPORTING FRAMING WITH (2) 16d (C) EACH GL MEMBER AND 16d (C) 6" OC AT ALL FRAMING BELOW. EACH PIECE SHALL BE TOENAILED THROUGH THE TONGUE AND EACH SUPPORT WITH (1) 10d COMMON NAIL.




ROOF SECTOR F PLAN

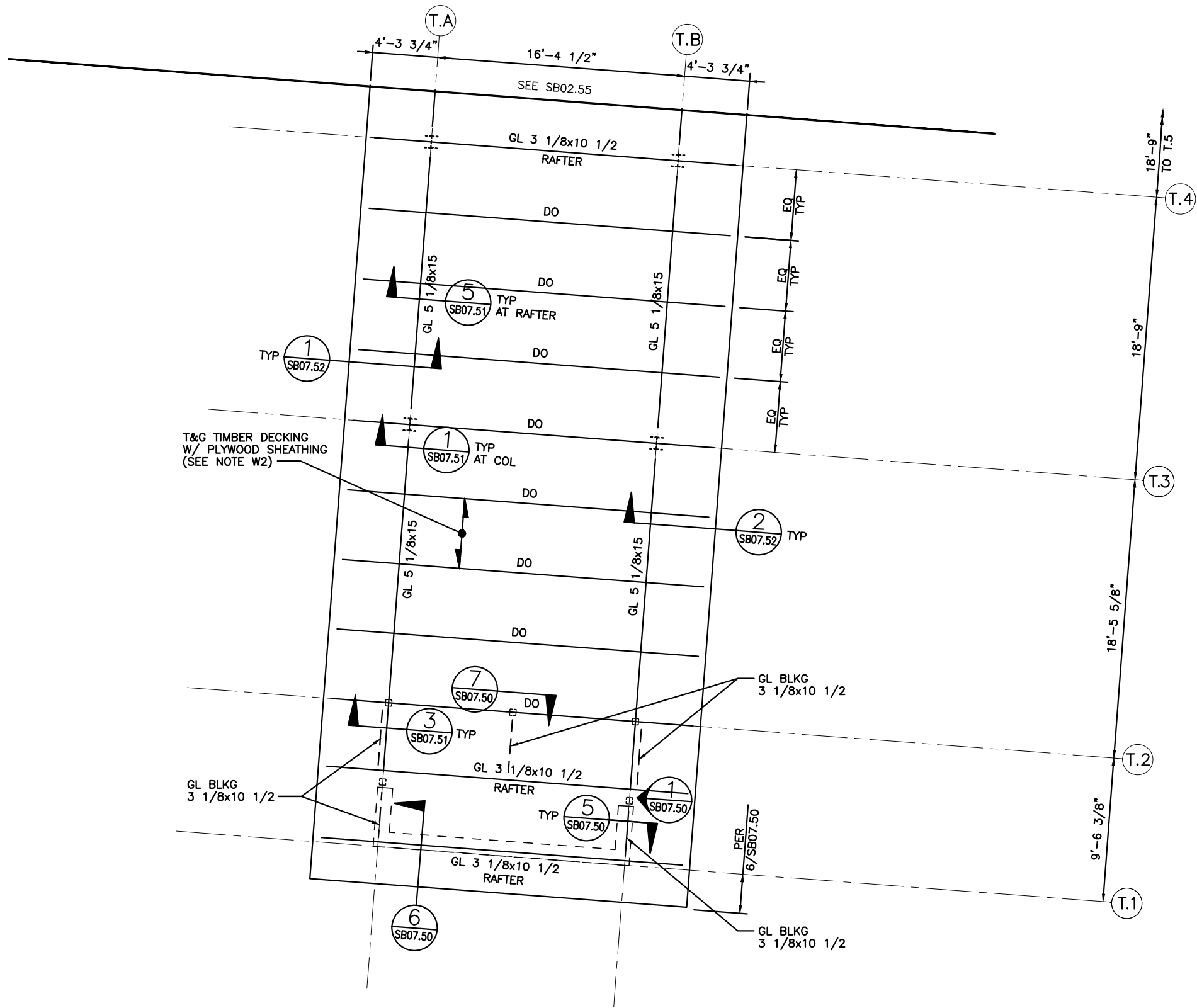


KEY PLAN



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SUBMITTAL DATE: 08/23/2018		ByronR				WA-2017-007-00		FERRY TERMINAL CONSTRUCTION						
DESIGNED BY: A. RADKE		08/23/2018				REGION NO. STATE								
ENTERED BY: B. RONIA		08/23/2018				10 WASH								
CHECKED BY: A. EWING		08/23/2018				JOB NUMBER								
MAR PROJ ENGR C. TORRES						18W121								
DIR TERM ENGR: N. MCINTOSH						CONTRACT NO.								
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY						

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Plotted: 9/21/18 at 2:39pm By: DianeL



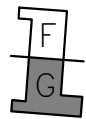
ROOF SECTOR G PLAN

GENERAL PLAN NOTES:

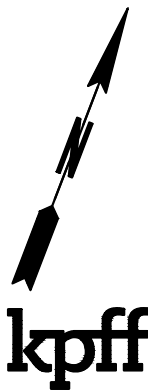
- G1. REFERENCE DRAWINGS:
SB00.OX STRUCTURAL NOTES
SB03.XX PARTIAL PLANS
SB04.XX SHEAR WALL/FRAME ELEVATIONS
SB05.XX TYPICAL CONCRETE DETAILS
SB06.XX TYPICAL STEEL DETAILS
SB07.XX TYPICAL WOOD DETAILS
SB08.XX TYPICAL COLD-FORMED STUD DETAILS
SB09.XX TYPICAL MASONRY DETAILS

WOOD FRAMING PLAN NOTES:

- W1. "GL" INDICATES GLULAM BEAMS.
- W2. ROOF CONSTRUCTION TO BE 15/32" PLYWOOD ROOF SHEATHING ATTACHED TO TIMBER DECKING WITH 16 GA x 1 1/2" STAPLES WITH 7/16" CROWN @ 6" OC AT ALL PANEL EDGES AND @ 12" OC AT 2'-0" SPACING ALONG SHEATHING. TIMBER DECKING SHALL BE 2x6 TONGUE AND GROOVE, DOUGLAS FIR LARCH SELECT GRADE. INSTALL DECK IN CONTROLLED RANDOM LAY-UP ARRANGEMENT PER AITC 112. ATTACH DECKING TO SUPPORTING FRAMING WITH (2) 16d @ EACH GL MEMBER AND 16d @ 6" OC AT ALL FRAMING BELOW. EACH PIECE SHALL BE TOENAILED THROUGH THE TONGUE AND EACH SUPPORT WITH (1) 10d COMMON NAIL.



KEY PLAN



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ENTERED BY: B. RONIA	08/23/2018		10 WASH
CHECKED BY: A. EWING	08/23/2018		JOB NUMBER
MAR PROJ ENGR C. TORRES			18W121
DIR TERM ENGR: N. MCINTOSH			CONTRACT NO.
ASST SECRETARY: A. SCARTON			00****
REVISION	DATE	BY	



08/23/2018
DATE



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TOLL PLAZA – ROOF –
SECTOR G PLAN

SB02.56

SHEET
1126
OF
1521
SHEETS

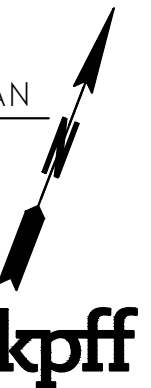
P1. CATWALK DESIGNED FOR 40 PSF LIVE LOAD, IN CONJUNCTION WITH 500 LB CONCENTRATED LOAD OVER 2'x2' SQUARE AREA.

- S1. X'-X" INDICATES TOP OF STEEL ELEVATION.
- S2. STEEL DECK GAGE AND PROPERTIES PER NOTE S5 ON SB02.09.
- S3. ALL STEEL FRAMING AND BAR GRATING TO BE GALVANIZED.

C1. X'-X'' INDICATES TOP OF CONCRETE/
CMU WALL ELEVATION.

C2. XE INDICATES STEEL BEAM CONNECTION TO
CONCRETE WALL PER 7/SB06.04.

M1. XME INDICATES STEEL BEAM CONNECTION
TO CMU WALL PER 5/SB09.01.



FILE NAME: 14W121SB03_00.dwg									
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DESIGNED BY: A. RADKE		08/23/2018						WA-2017-007-00	
ENTERED BY: B. RONIA		08/23/2018						REGION NO.	STATE
CHECKED BY: A. EWING		08/23/2018						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****



08/23/2018
DATE



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

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

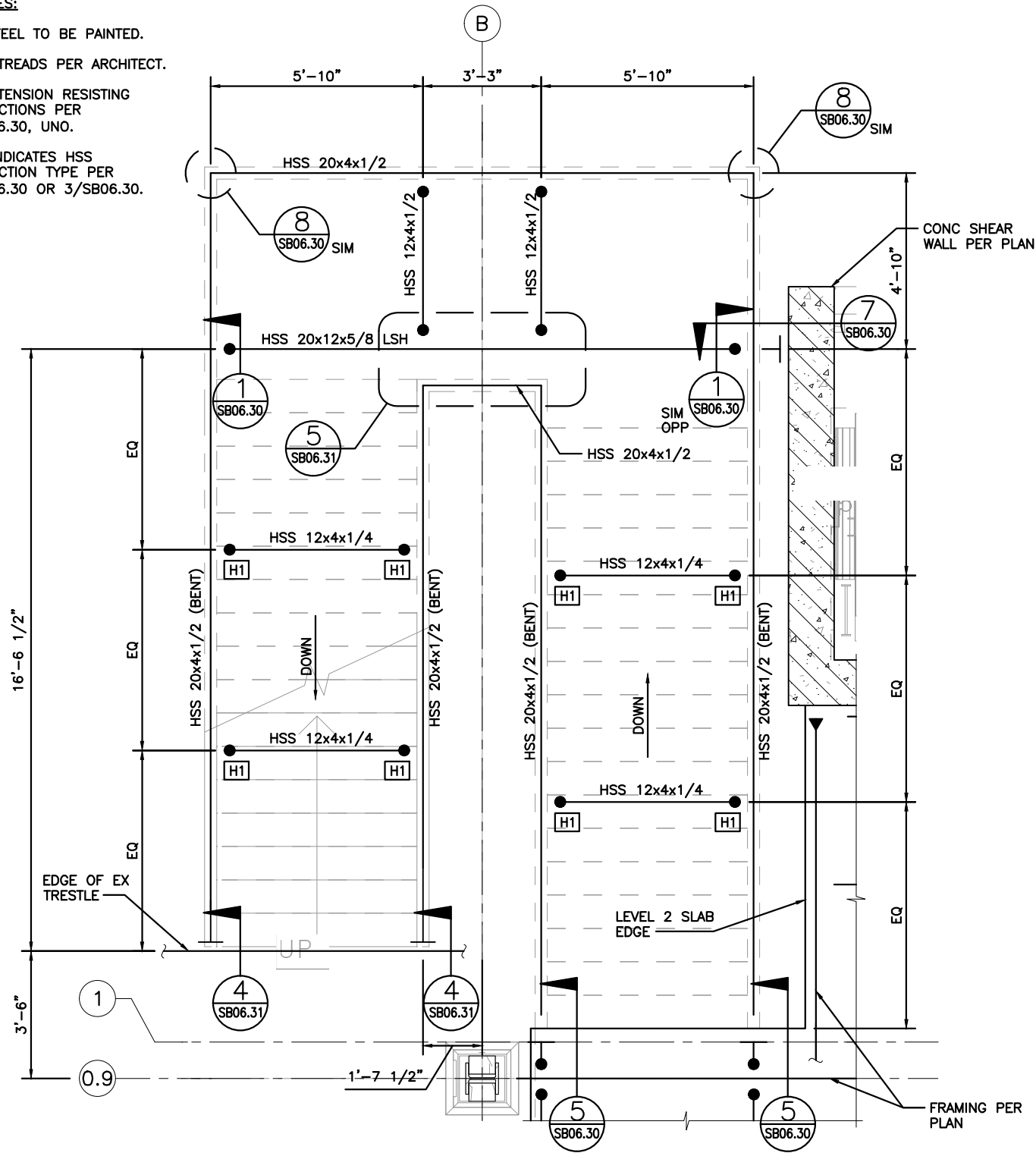
PARTIAL PLANS — MAINTENANCE YARD

SB03.00

SHEET
1127
OF
1521
SHEETS

STAIR NOTES:

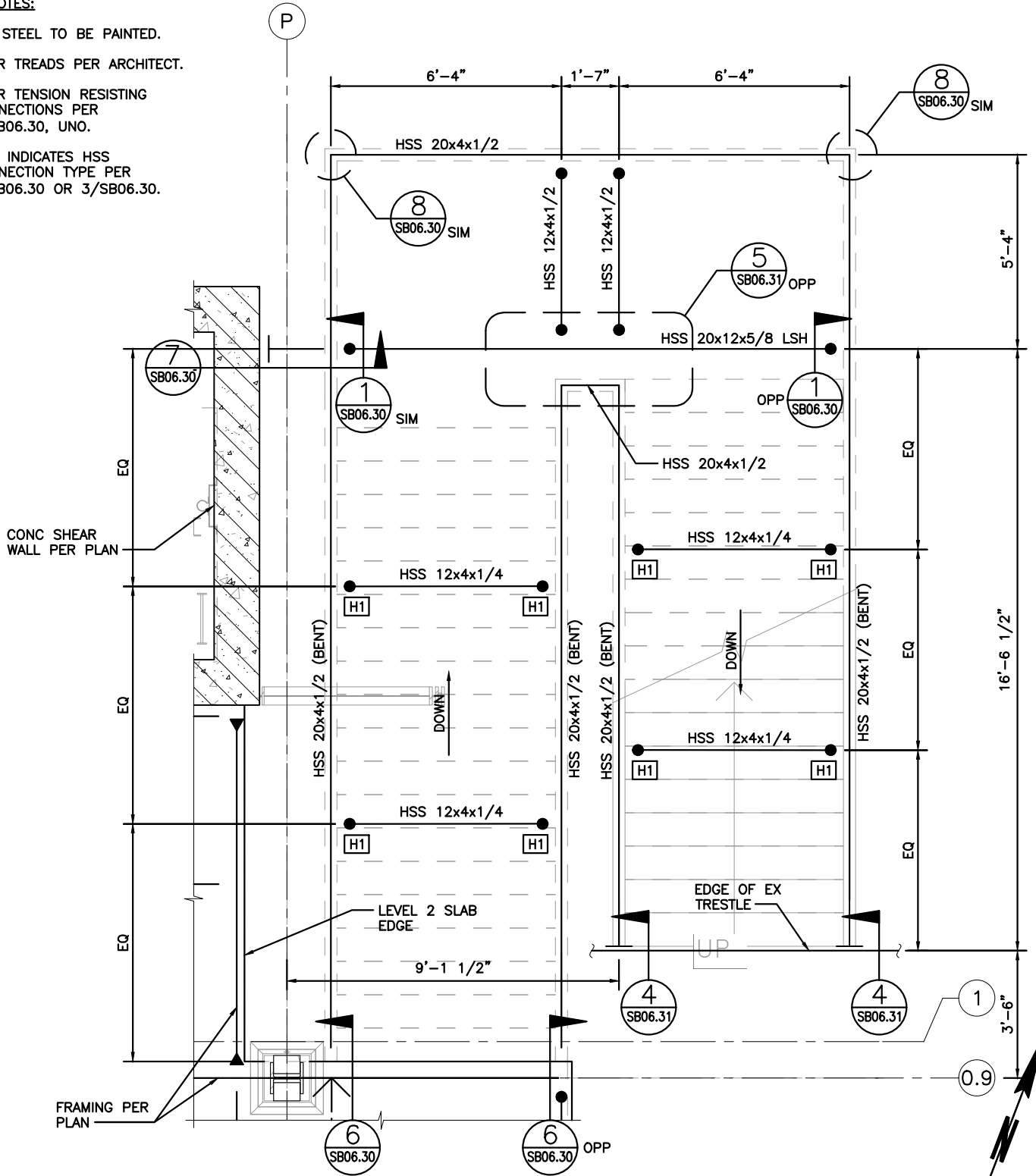
1. ALL STEEL TO BE PAINTED.
2. STAIR TREADS PER ARCHITECT.
3. STAIR TENSION RESISTING CONNECTIONS PER 4/SB06.30, UNO.
4. [HX] INDICATES HSS CONNECTION TYPE PER 2/SB06.30 OR 3/SB06.30.



5 TERMINAL STAIR 1 PLAN

STAIR NOTES:

1. ALL STEEL TO BE PAINTED.
2. STAIR TREADS PER ARCHITECT.
3. STAIR TENSION RESISTING CONNECTIONS PER 4/SB06.30, UNO.
4. [HX] INDICATES HSS CONNECTION TYPE PER 2/SB06.30 OR 3/SB06.30.



7 TERMINAL STAIR 2 PLAN

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SUBMITTAL DATE: 08/23/2018						WA-2017-007-00	
DESIGNED BY: A. RADKE	08/23/2018					REGION NO. STATE	
ENTERED BY: B. RONIA	08/23/2018					10 WASH	
CHECKED BY: A. EWING	08/23/2018					JOB NUMBER	
MAR PROJ ENGR C. TORRES						18W121	
DIR TERM ENGR: N. MCINTOSH						CONTRACT NO.	
ASST SECRETARY: A. SCARTON						00****	
REVISION		DATE		BY			



08/23/2018

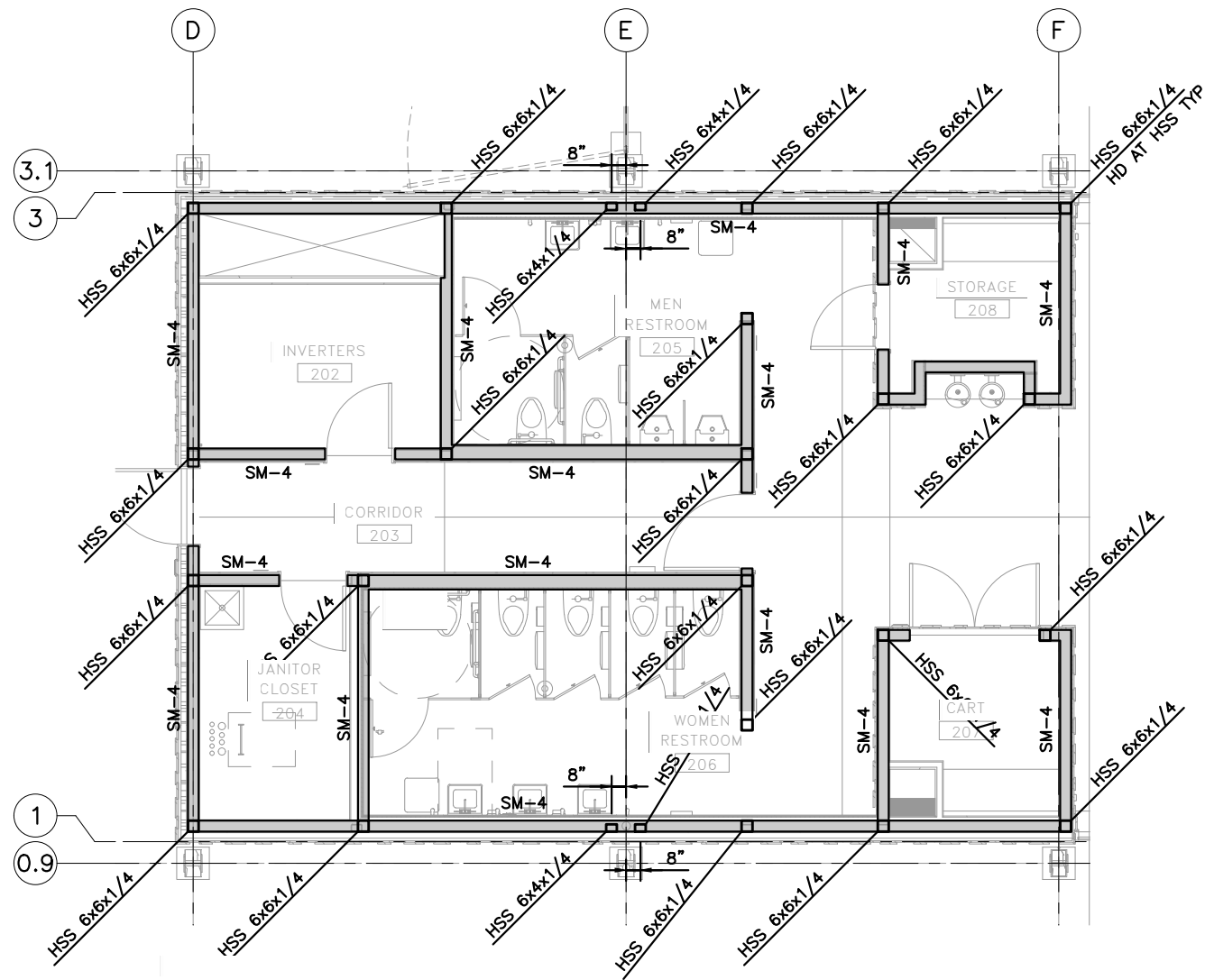


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
PARTIAL PLANS - STAIRS

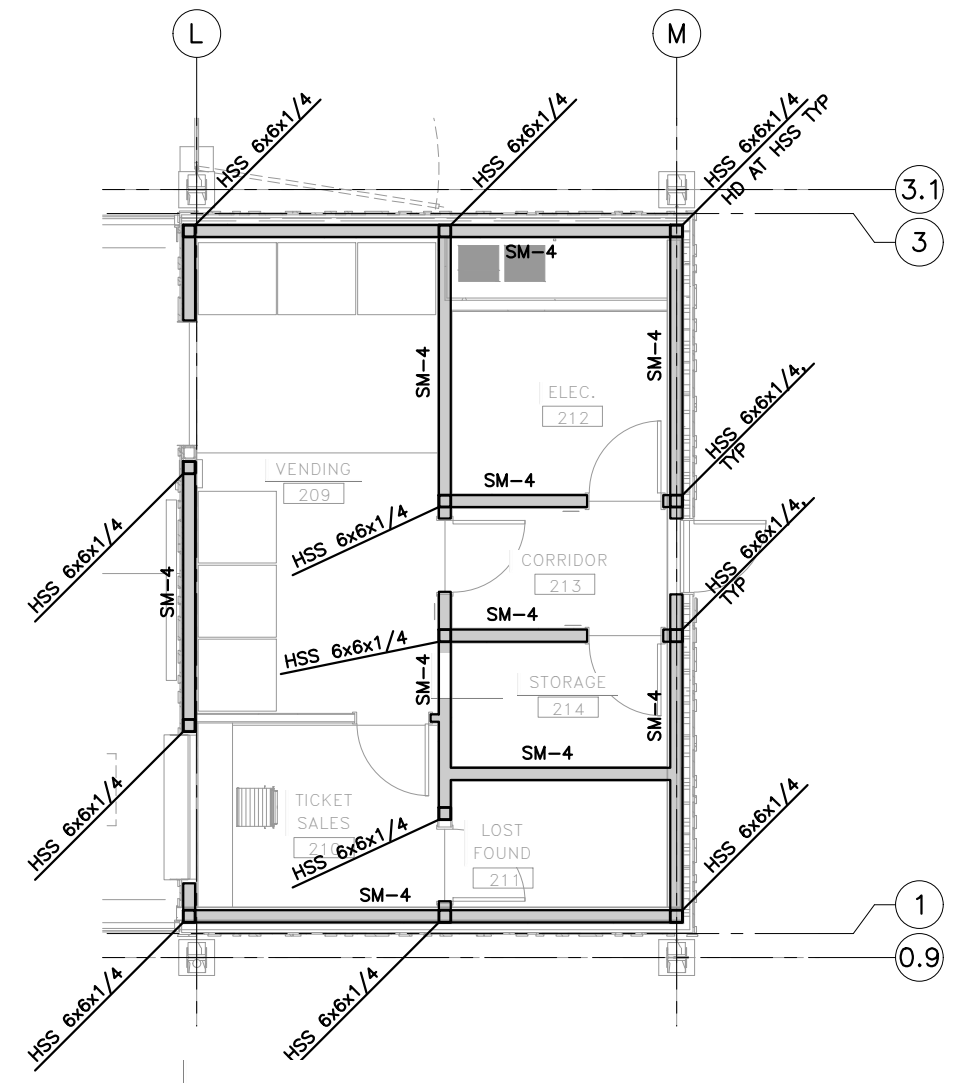
SB03.01
SHEET
1128
OF
1521
SHEETS

kpff

SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	SB03.02
	SHEET 1129 OF 1521 SHEETS
PARTIAL PLANS – STAIRS	



5 WEST COLD-FORMED STUD WALL PARTIAL PLAN



7 EAST COLD-FORMED STUD WALL PARTIAL PLAN

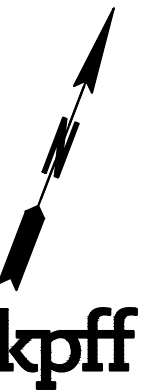
COLD-FORMED STUD FRAMING NOTES:

CFS1. SEE ARCHITECTURAL TO LOCATE WALLS.

CFS2. **SM-X** INDICATES SHEAR WALL PER 1/SB08.00.

CFS3. **HD** INDICATES HOLD-DOWN PER 8/SB08.01.

CFS4. **HSS** COLUMN LOCATIONS TO COINCIDE AT WALL CORNERS/ENDS AS SHOWN, TYP UNO.



File: U:\14000-114350\114177 (Mukilteo Ferry Terminal)\02 Plans\14W121SB03_03.dwg
 Plotted: 9/21/18 at 2:40pm By: DianeL

FILE NAME:	14W121SB03_03.dwg				
PRINTED:	2:40:01 PM 9/21/2018	LAST PRINTED BY:			
SUBMITTAL DATE:	08/23/2018				
DESIGNED BY:	A. RADKE	08/23/2018			
ENTERED BY:	B. RONIA	08/23/2018			
CHECKED BY:	A. EWING	08/23/2018			
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	
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JOB NUMBER	
18W121	
CONTRACT NO.	
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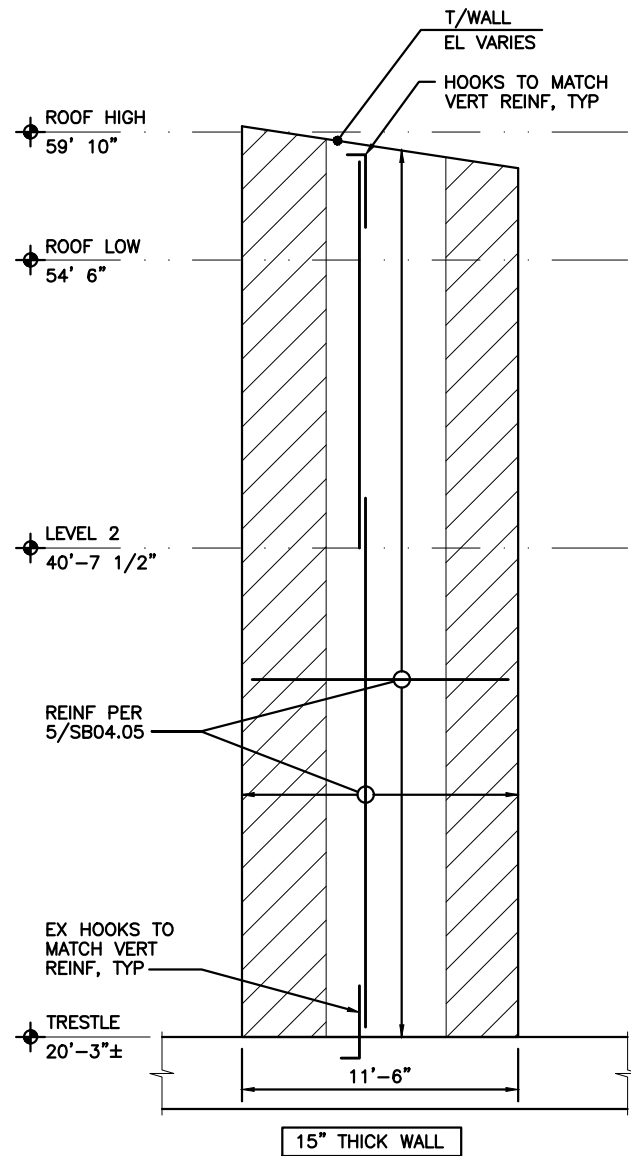


08/23/2018
DATE

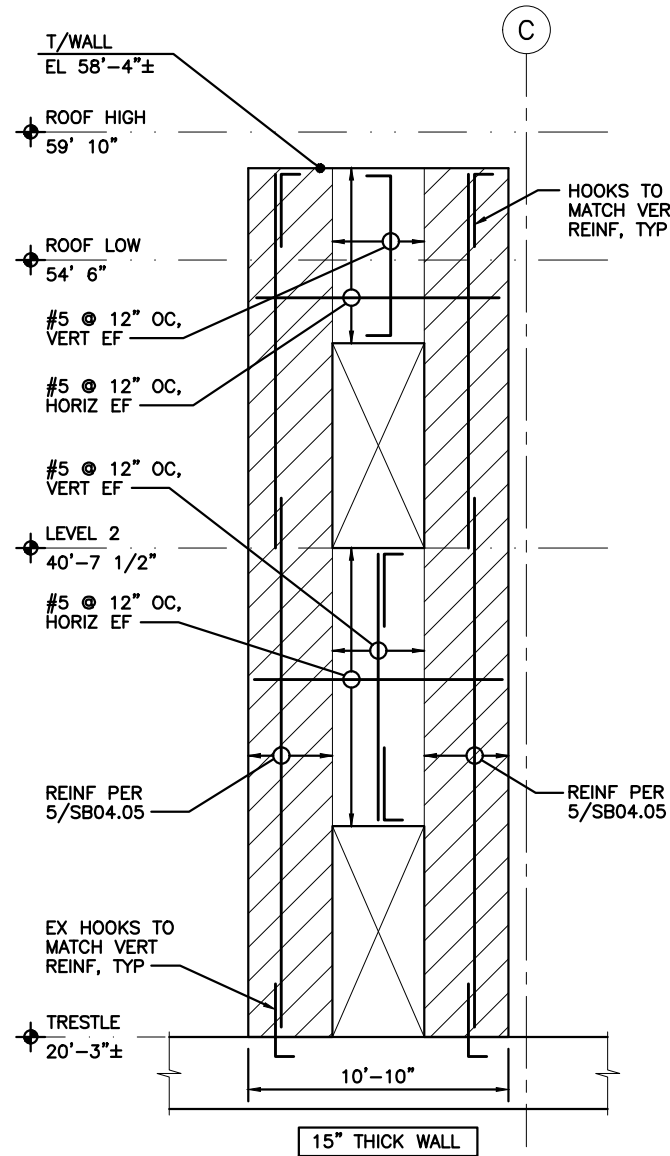


SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	
PARTIAL PLANS – STUD WALLS	

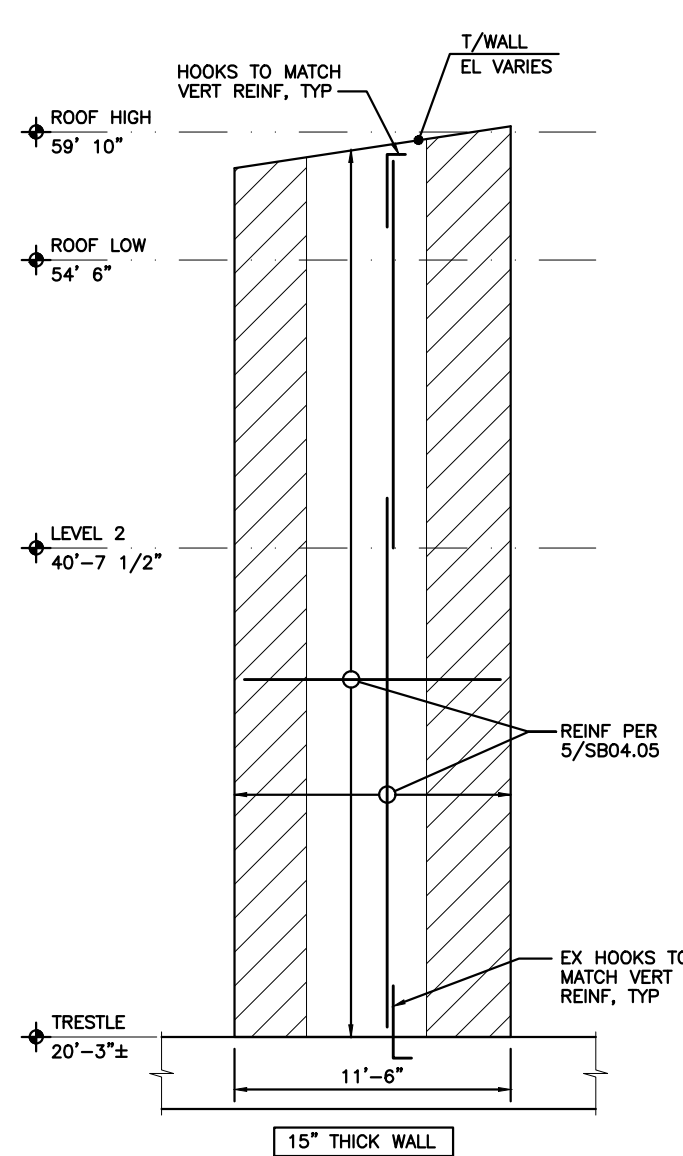
SB03.03
SHEET
1130
OF
1521
SHEETS



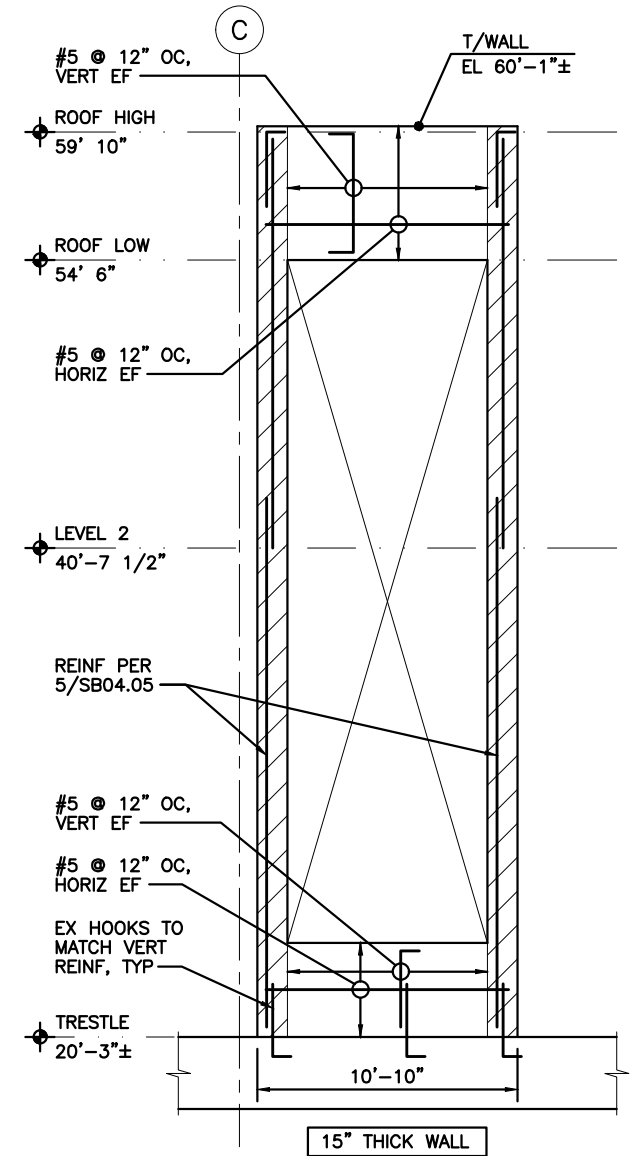
5
-
TERMINAL WEST
CORE - WEST WALL



6
-
TERMINAL WEST
CORE - SOUTH WALL



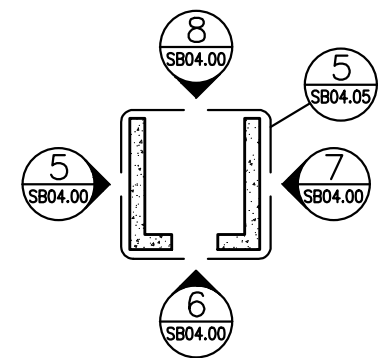
7
-
TERMINAL WEST
CORE - EAST WALL



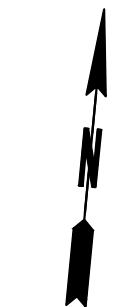
8
-
TERMINAL WEST
CORE - NORTH WALL

NOTES:

- SEE SB04.07 FOR TYPICAL SHEAR WALL NOTES AND DETAILS
- CORE WALL REINFORCEMENT PER 5/SB04.05 UNO.
- VERTICAL SHEAR WALL REINFORCEMENT SHALL BE DEVELOPED INTO EXISTING TRESTLE A DISTANCE OF Ldh USING HOOKED REBAR DOWELS WITH SIZE AND SPACING TO MATCH VERTICAL WALL REINFORCING.
- INDICATES SPECIAL BOUNDARY ZONES (SBZ).



KEY PLAN



kpff

FILE NAME:	14W121SB04_00.dwg				
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SUBMITTAL DATE:	08/23/2018				
DESIGNED BY:	A. RADKE	08/23/2018			
ENTERED BY:	B. RONIA	08/23/2018			
CHECKED BY:	A. EWING	08/23/2018			
MAR PROJ ENGR	C. TORRES				
DIR TERM ENGR:	N. MCINTOSH				
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		REVISION	DATE	BY	

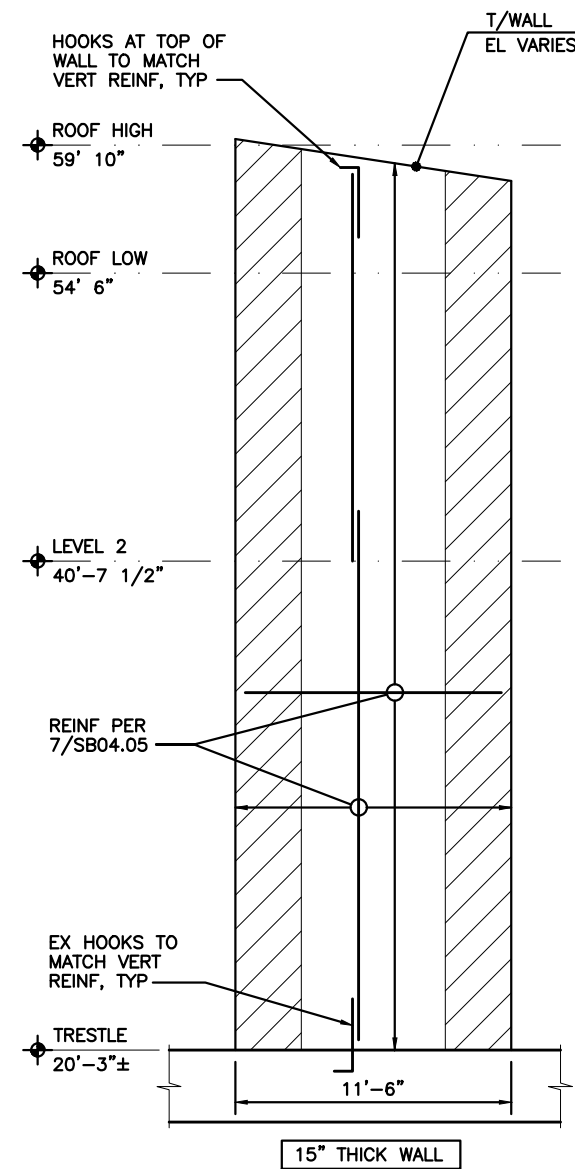


08/23/2018

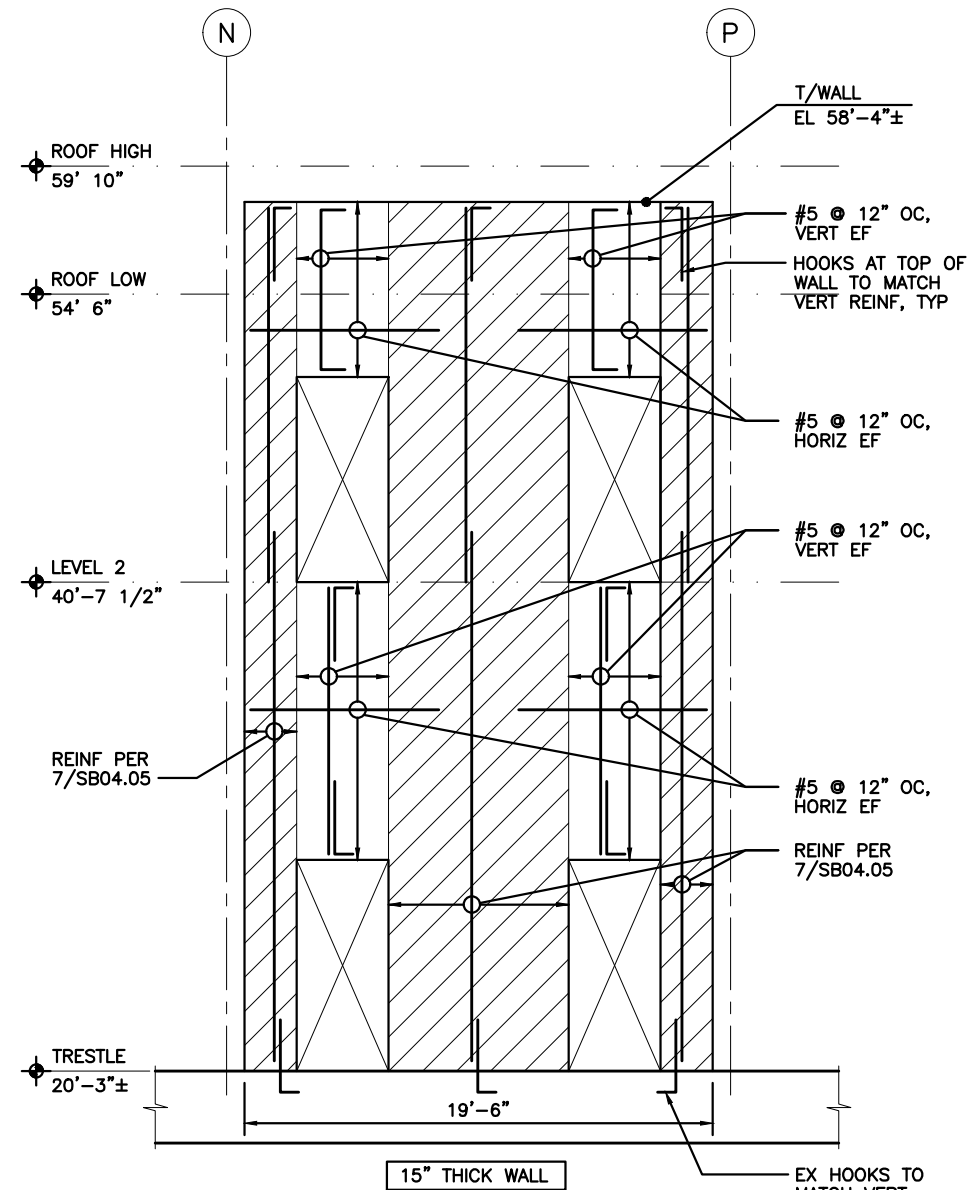
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
SHEAR WALL ELEVATIONS

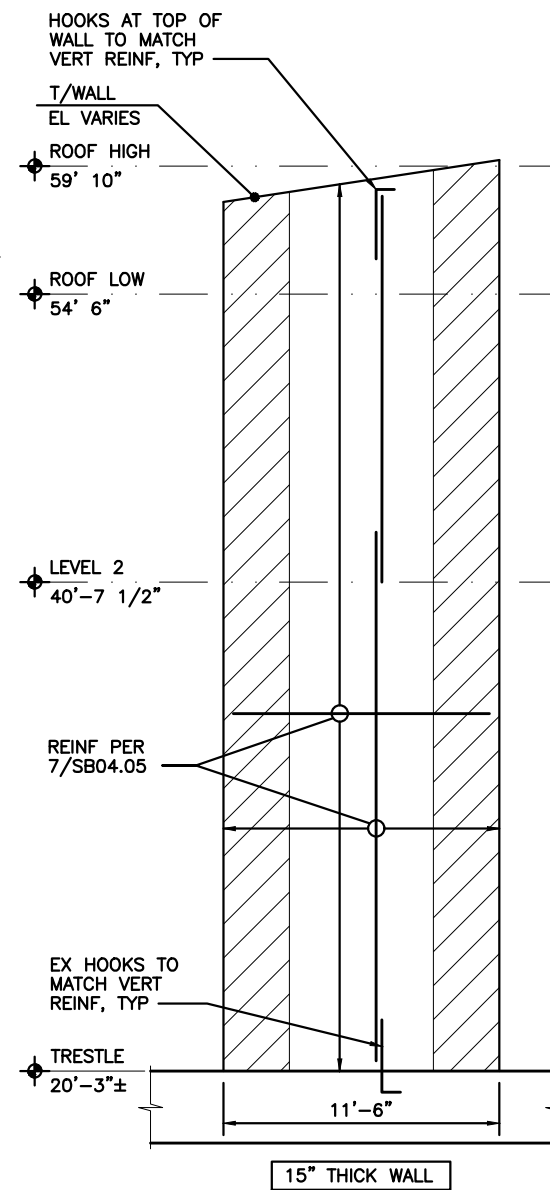
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SHEET
1132
OF
1521
SHEETS



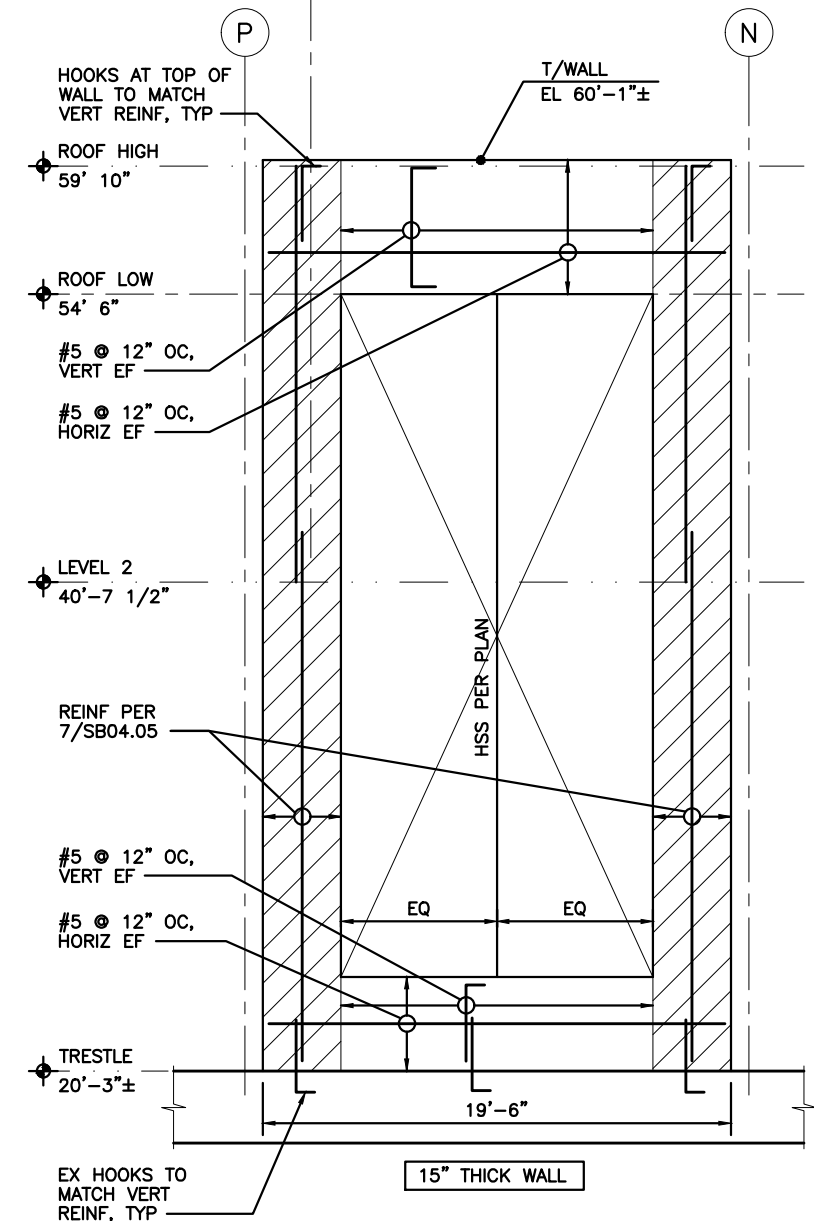
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TERMINAL EAST
CORE - WEST WALL



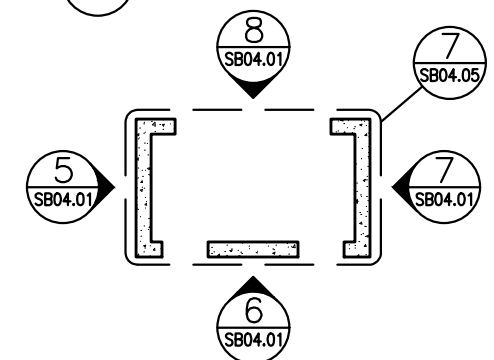
6
-
TERMINAL EAST
CORE - SOUTH WALL



7
-
TERMINAL EAST
CORE - EAST WALL




8
-
TERMINAL EAST
CORE - NORTH WALL



KEY PLAN

kpff

- NOTES:

1. SEE SB04.07 FOR TYPICAL SHEAR WALL NOTES AND DETAILS
2. CORE WALL REINFORCEMENT PER 7/SB04.05 UNO.
3. VERTICAL SHEAR WALL REINFORCEMENT SHALL BE DEVELOPED INTO EXISTING TRESTLE A DISTANCE OF L_{dh} USING HOOKED REBAR DOWELS WITH SIZE AND SPACING TO MATCH VERTICAL WALL REINFORCING.
4.  INDICATES SPECIAL BOUNDARY ZONES (SBZ).

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CHECKED BY: A. EWING		08/23/2018					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. 00****



08/23/2018
DATE



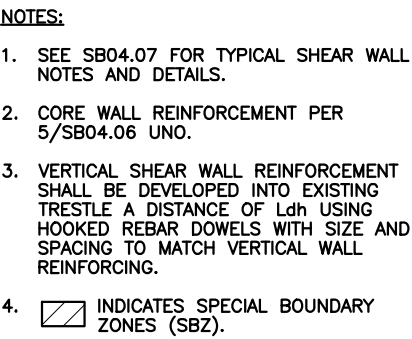
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

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

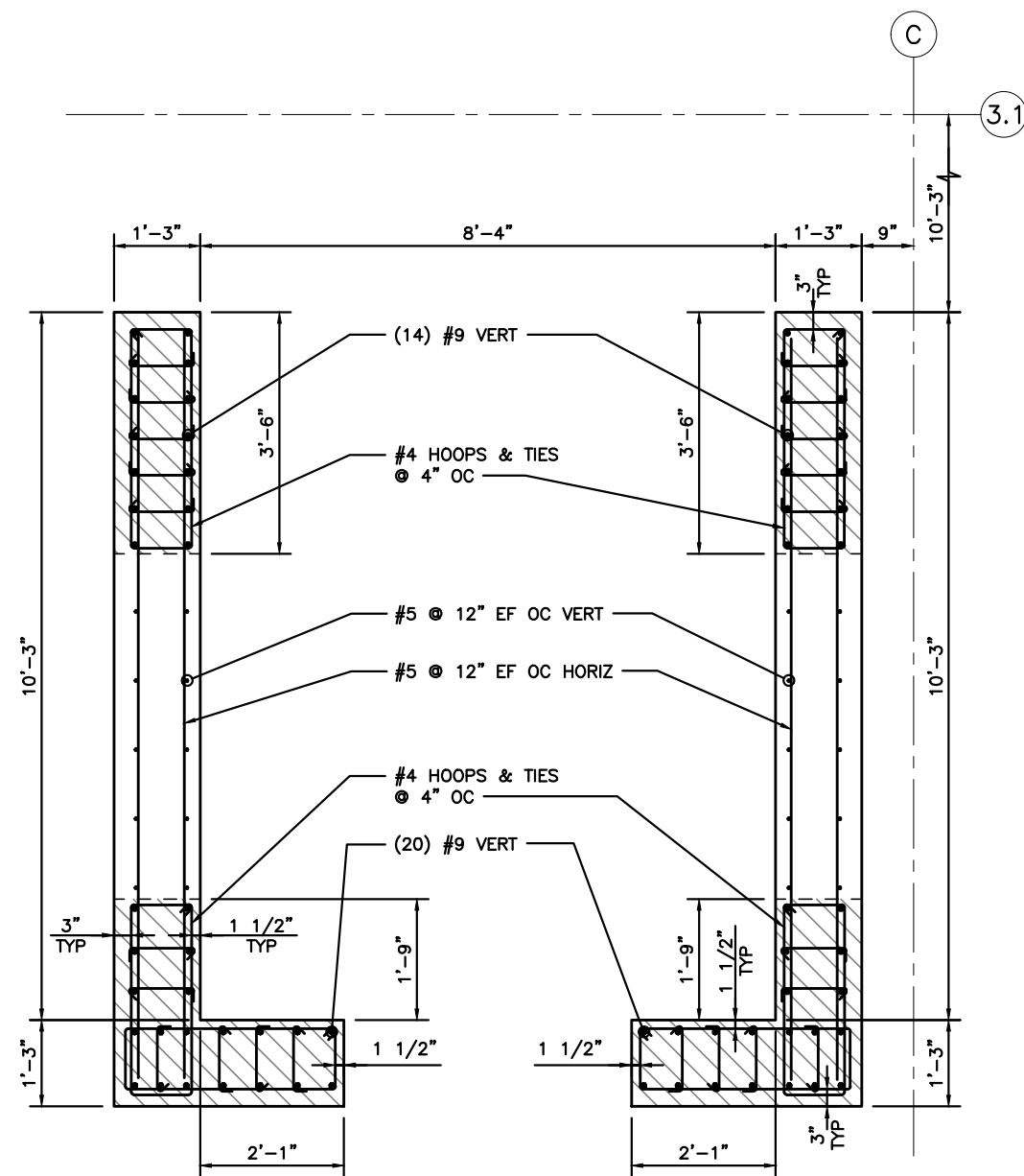
SHEAR WALL ELEVATIONS

SB04.01

133
OF
1521
SHEETS

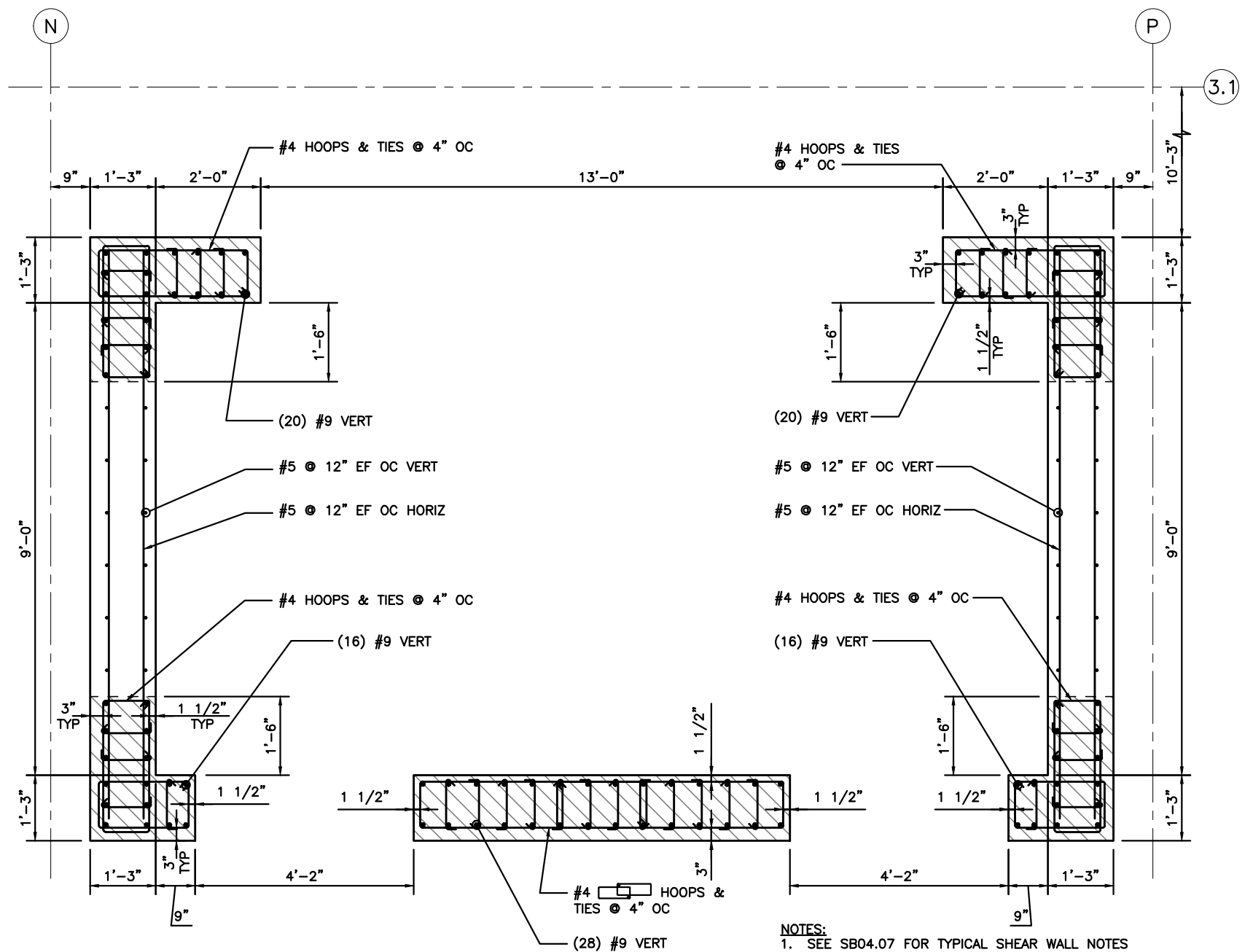


3 TERMINAL BLDG INTERIOR WALL



NOTES:
1. SEE SB04.07 FOR TYPICAL SHEAR WALL NOTES AND DETAILS.

5 TERMINAL BUILDING WEST CORE



7 TERMINAL BUILDING EAST CORE

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ASST SECRETARY: A. SCARTON				REVISION		DATE		BY	
								CONTRACT NO.	
								00****	



08/23/2018
DATE



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

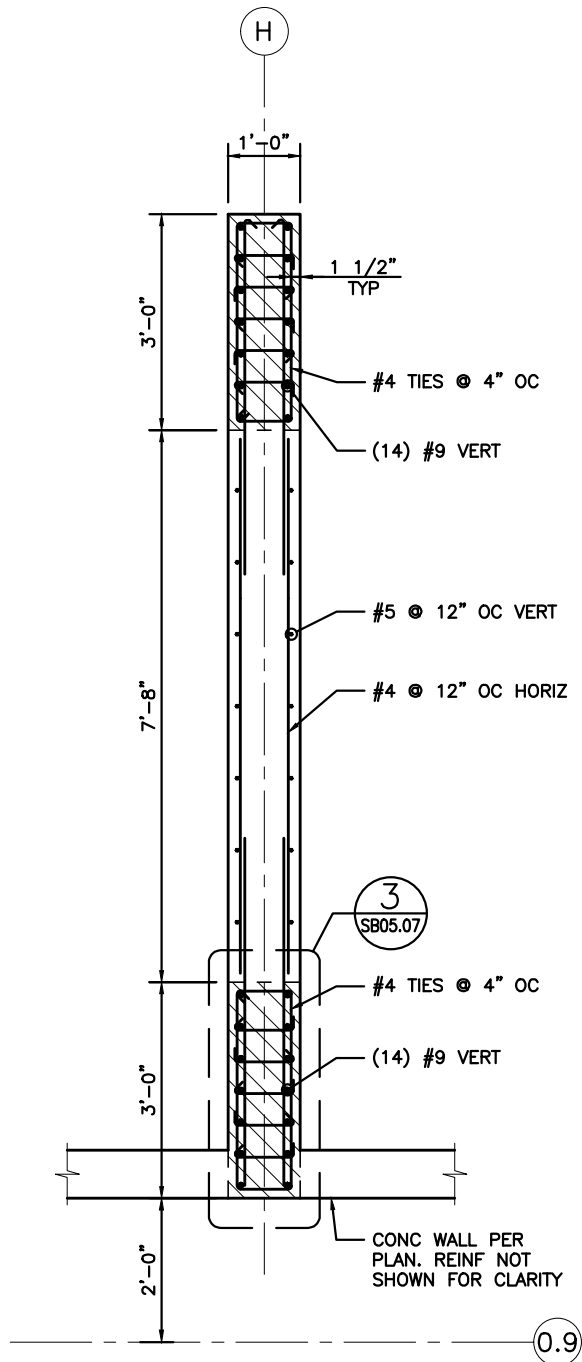
CONC SHEAR WALL SECTIONS

SB04.05

SHEET
1135
OF
1521
SHEETS

kpff

File: U:\14000-114350\114177 (Mukilteo Ferry Terminal)\03 Elevations\14W121SB04_06.dwg
Plotted: 9/21/18 at 2:40pm By: DianeL



NOTES:
1. SEE SB04.07 FOR TYPICAL SHEAR WALL NOTES AND DETAILS.

5
1

TERMINAL BLDG GRID H WALL

kpff

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ENTERED BY:	B. RONIA	08/23/2018				10	WASH		
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MAR PROJ ENGR	C. TORRES					18W121			
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ASST SECRETARY:	A. SCARTON					00****			
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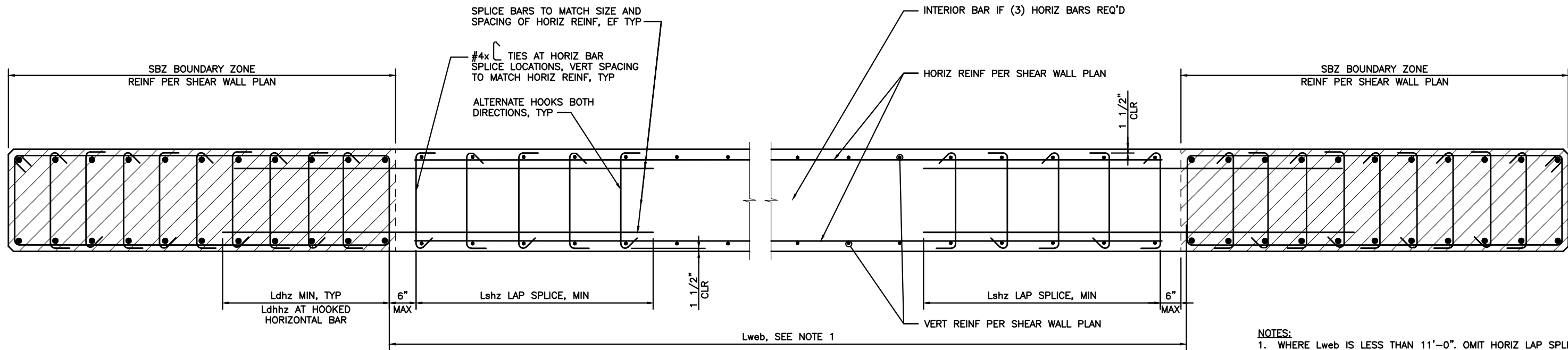


08/23/2018



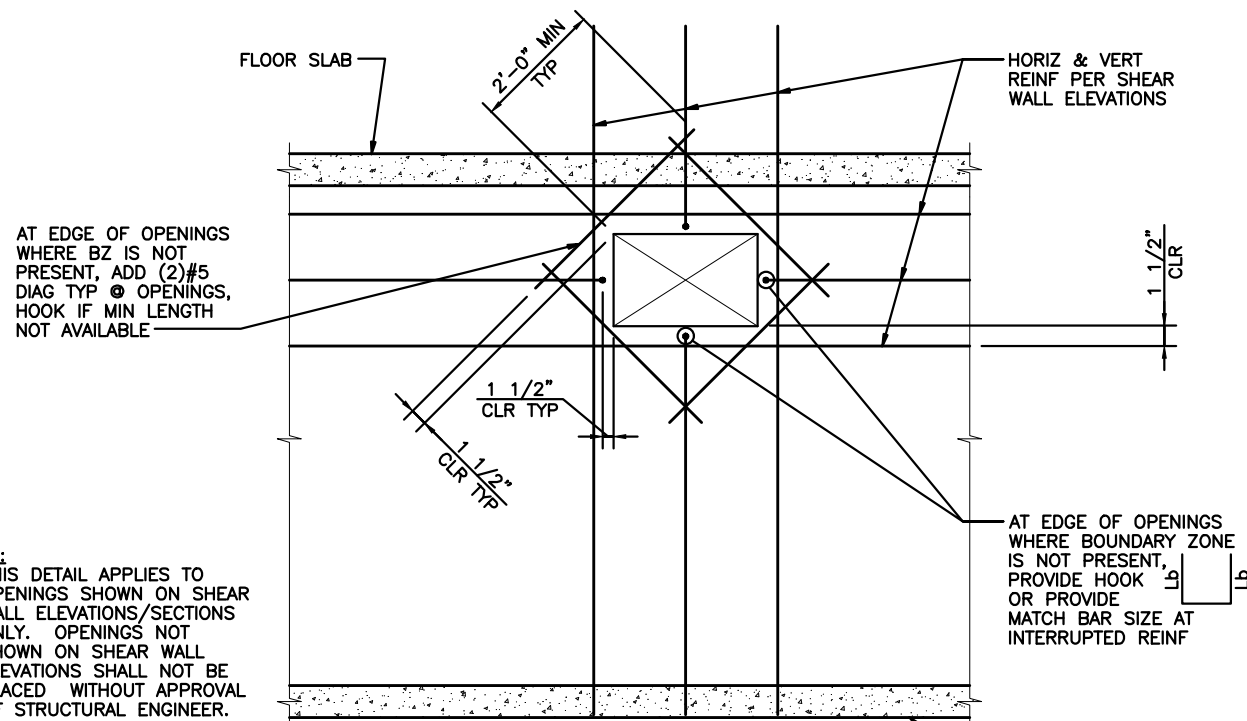
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
CONC SHEAR WALL SECTIONS

SB04.06
SHEET
1136
OF
1521
SHEETS



- NOTES:
- WHERE L_{web} IS LESS THAN 11'-0". OMIT HORIZ LAP SPLICE AND EXTEND HORIZ REINF INTO BOUNDARY ZONE.
 - WHERE LENGTH OF SBZ - 2" < LDHZ, PROVIDE HOOKED HORIZONTAL BAR.
 - HOOP AND TIE REINFORCING IN SBZ IS #5 @ 4" OC UNO.

1 SECTION - CONCRETE SHEAR WALL AT SPECIAL BOUNDARY ZONE (SBZ)



- NOTES:
- THIS DETAIL APPLIES TO OPENINGS SHOWN ON SHEAR WALL ELEVATIONS/SECTIONS ONLY. OPENINGS NOT SHOWN ON SHEAR WALL ELEVATIONS SHALL NOT BE PLACED WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

5 SHEAR WALL REINFORCING AROUND OPENINGS

SIZE	f'c = 5000 psi					
	Ldbz	Ldvt	Ldhz	Lsbz	Lsvt	Lshz
#5	17	17	21	21	21	28
#6	21	21	25	25	25	33
#7	25	27	37	37	41	48
#8	37	44	42	42	52	55
#9	42	54	48	48	64	62
#10	48	66	54	54	78	70
#11	54	29	60	60	86	78

ABBREVIATIONS

- Ldbz = DEVELOPMENT LENGTH FOR VERTICAL REINFORCEMENT IN BOUNDARY ZONES
- Ldvt = DEVELOPMENT LENGTH FOR VERTICAL REINFORCEMENT OUTSIDE OF BOUNDARY ZONES
- Ldhz = DEVELOPMENT LENGTH FOR HORIZONTAL REINFORCEMENT
- Lsbz = LAP SPLICE LENGTH FOR VERTICAL REINFORCEMENT IN BOUNDARY ZONES
- Lsvt = LAP SPLICE LENGTH FOR VERTICAL REINFORCEMENT OUTSIDE OF BOUNDARY ZONES
- Lshz = LAP SPLICE LENGTH FOR HORIZONTAL REINFORCEMENT

NOTES:

- LENGTHS ARE SHOWN IN INCHES.
- WHERE BARS OF DIFFERENT SIZE ARE LAPPED, USE SPLICE LENGTH REQUIRED FOR SMALLER BAR.

7 SHEAR WALL DEVELOPMENT & SPLICE LENGTH SCHEDULE

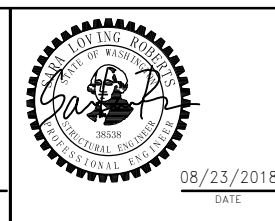
SHEAR WALL NOTES:

- SEE PLANS FOR FRAMING INFORMATION.
- BOUNDARY ZONES ARE INDICATED ON SHEAR WALL PLANS. VERTICAL REINFORCEMENT AND TIES ARE SHOWN IN SHEAR WALL PLANS.
- SEE 7/SB04.07 FOR SPLICE LENGTHS.
- HOOP AND TIE SPACING SHALL BE 4" OC OVER ENTIRE LENGTH OF VERTICAL LAP SPLICE WITHIN OBZ. IF OFFSET BARS ARE USED IN VERTICAL LAP SPLICES, EXTEND 4" OC SPACING TO 6" BEYOND POINT OF BEND.
- BOUNDARY ZONE HOOPS AND TIES SHALL EXTEND INTO FOOTING 12" MINIMUM.
- HORIZONTAL CONSTRUCTION JOINTS IN SHEAR WALLS AT FLOOR AND ROOF FRAMING SHALL BE LOCATED SUCH THAT THE JOINT IS 3" MINIMUM FROM THE CENTERLINE OF ANY WELDED HEADED STUDS FOR EMBEDDED CONNECTIONS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- INDICATES SPECIAL BOUNDARY ZONES (SBZ).

8 SHEAR WALL NOTES

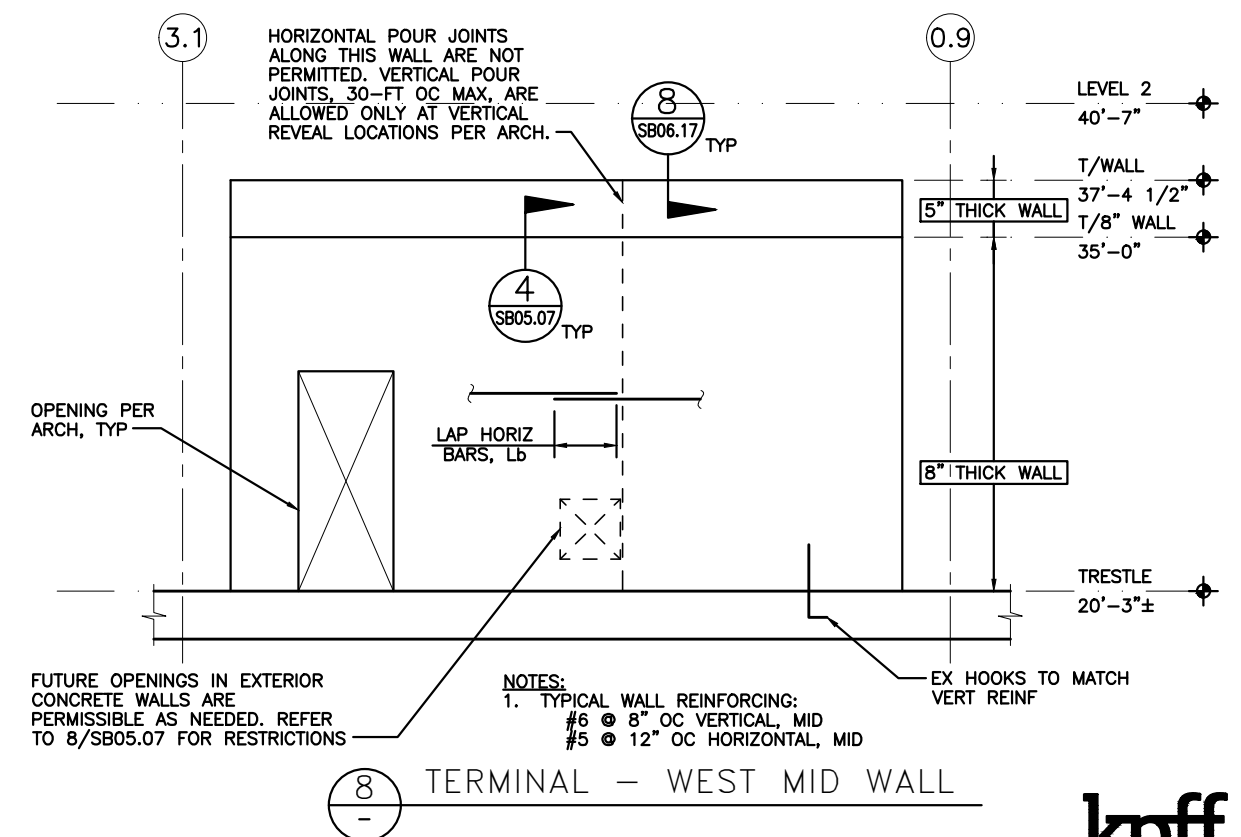
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ENTERED BY:	B. RONIA	08/23/2018				
CHECKED BY:	A. EWING	08/23/2018				
MAR PROJ ENGR	C. TORRES					
DIR TERM ENGR:	N. MCINTOSH					
ASST SECRETARY:	A. SCARTON					
	REVISION	DATE	BY			

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



SR 525	SB04.07
MUKILTEO FERRY TERMINAL (PHASE 2)	SHEET
FERRY TERMINAL CONSTRUCTION	1137
	OF
CONC SHEAR WALL DETAILS	1521
	SHEETS

kpff



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ENTERED BY: B. RONIA		08/23/2018					REGION NO.	STATE	
CHECKED BY: A. EWING		08/23/2018					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****	



08/23/2018
DATE



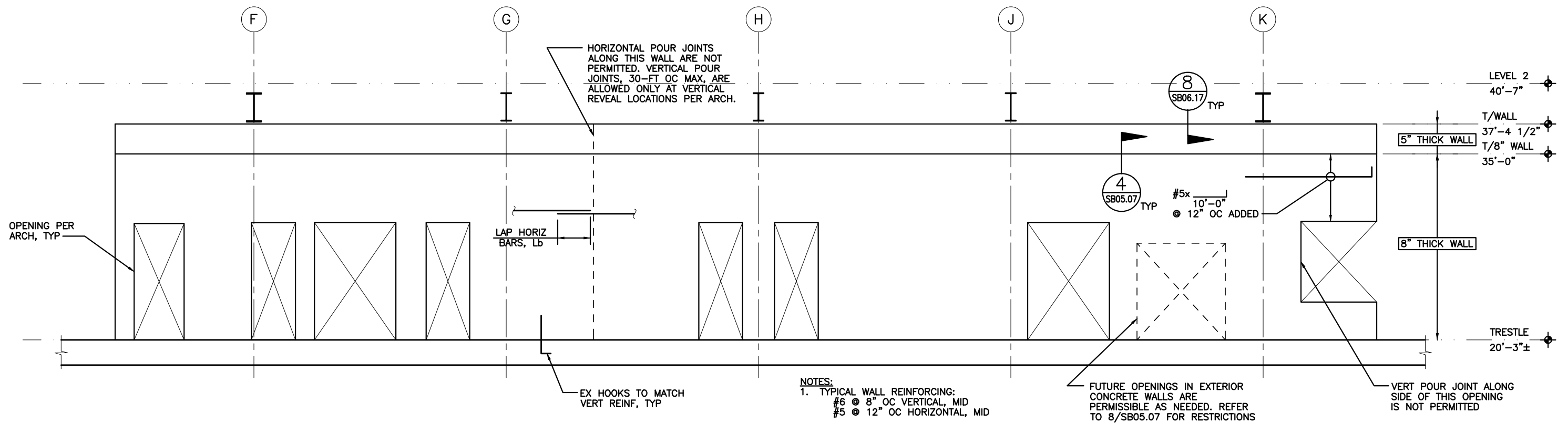
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

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

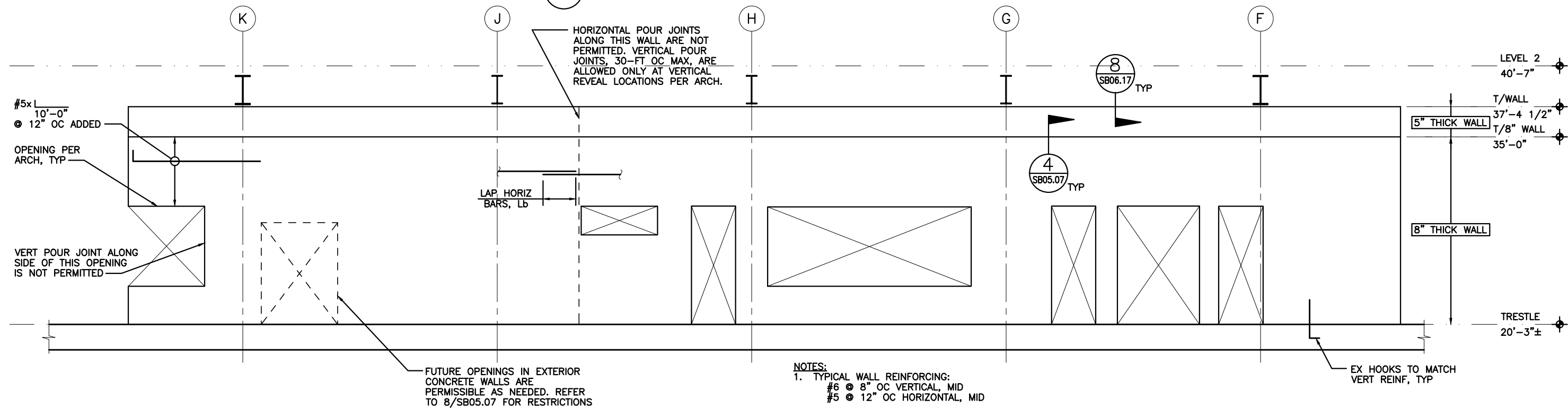
CONCRETE WALL ELEVATIONS

SB04.08

138
OF
1521
SHEETS



2 - TERMINAL - SOUTH MID WALL ELEVATION



6 - TERMINAL - NORTH MID WALL ELEVATION

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ENTERED BY: B. RONIA			08/23/2018					REGION NO.	STATE
CHECKED BY: A. EWING			08/23/2018					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****



08/23/2018

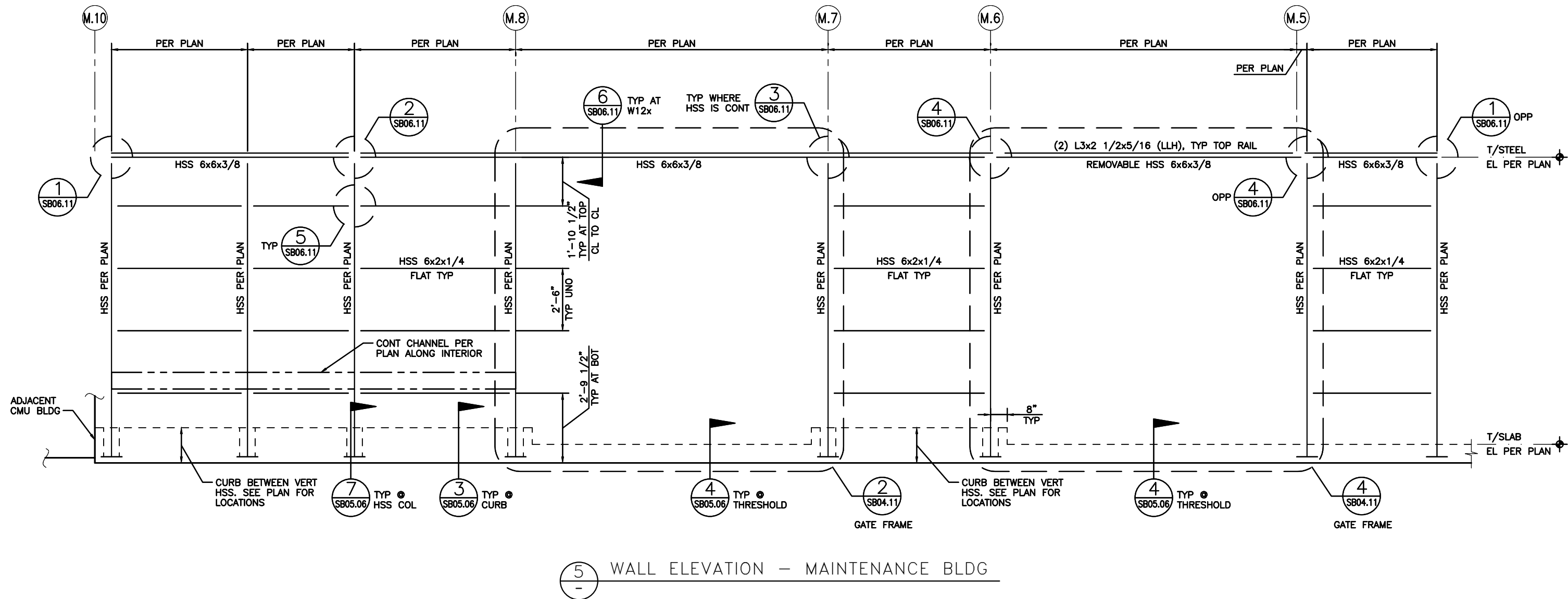


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
CONCRETE WALL ELEVATIONS

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SB04.09
SHEET
1139
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1521
SHEETS

File: U:\14000-114350\114177 (Mukilteo Ferry Terminal)\03 Elevations\14W121SB04_10.dwg
Plotted: 9/21/18 at 2:40pm By: DianeL



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CHECKED BY: A. EWING	08/23/2018		
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. Q0****			

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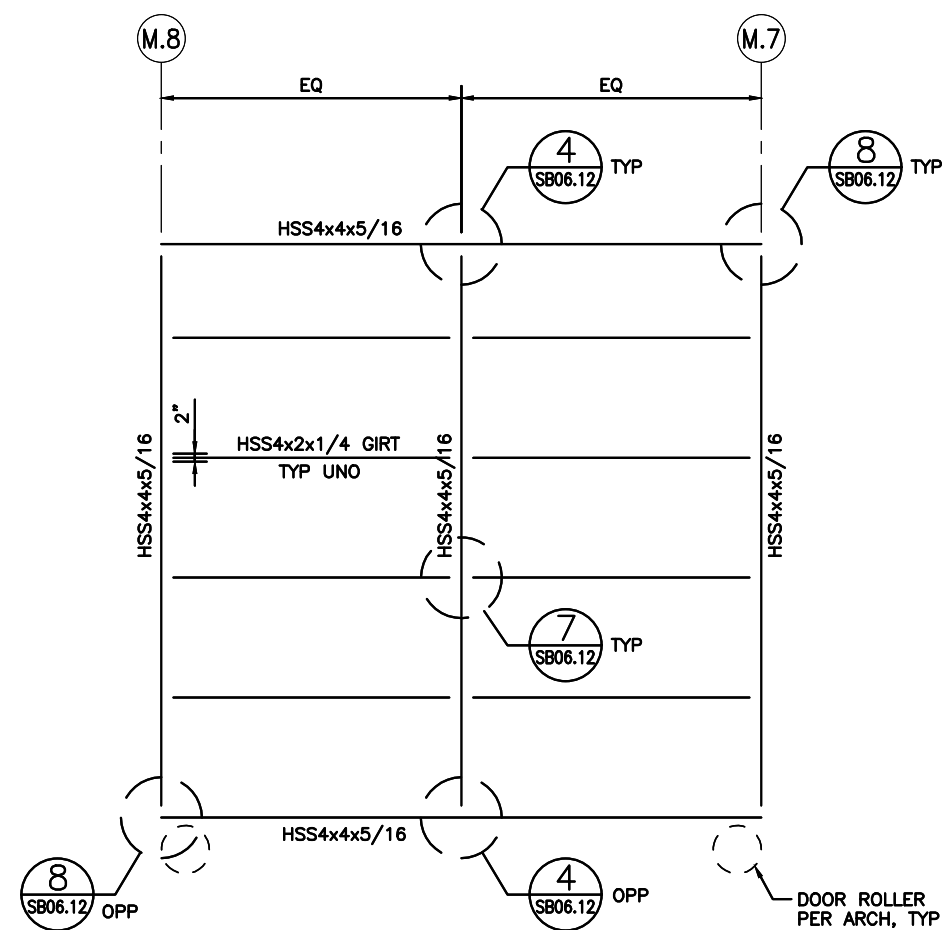


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DATE



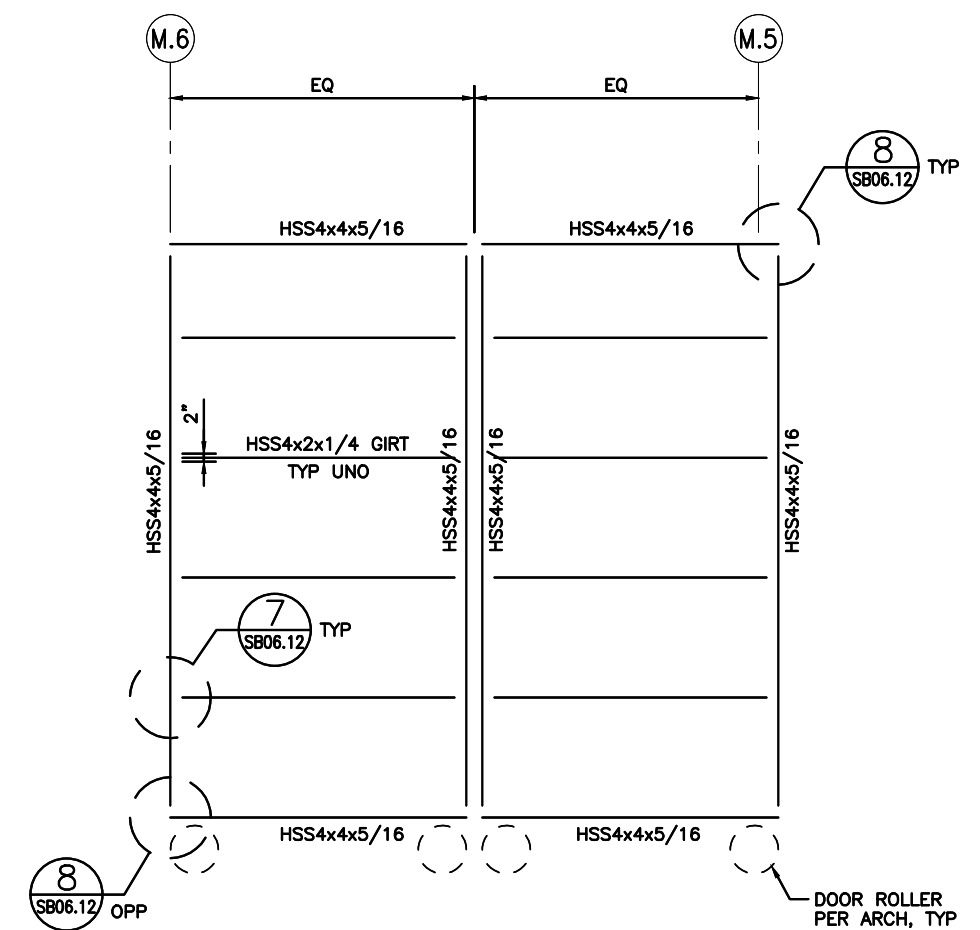
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
WALL ELEVATIONS - MAINTENANCE BLDG

SB04.10
SHEET
1140
OF
1521
SHEETS



NOTES:
1. GATE FRAME SHOWN FOR SIZES AND CONNECTION DETAILS.
SEE ARCH DWGS FOR DIMENSIONAL CONTROL.

2
- GATE ELEVATION – MAINTENANCE BLDG



NOTES:
1. GATE FRAME SHOWN FOR SIZES AND CONNECTION DETAILS.
SEE ARCH DWGS FOR DIMENSIONAL CONTROL.

4
- GATE ELEVATION – MAINTENANCE BLDG

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ENTERED BY: B. RONIA	08/23/2018				JOB NUMBER		
CHECKED BY: A. EWING	08/23/2018				18W121		
MAR PROJ ENGR C. TORRES					CONTRACT NO.		
DIR TERM ENGR: N. MCINTOSH					00****		
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY			

	DATE
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08/23/2018
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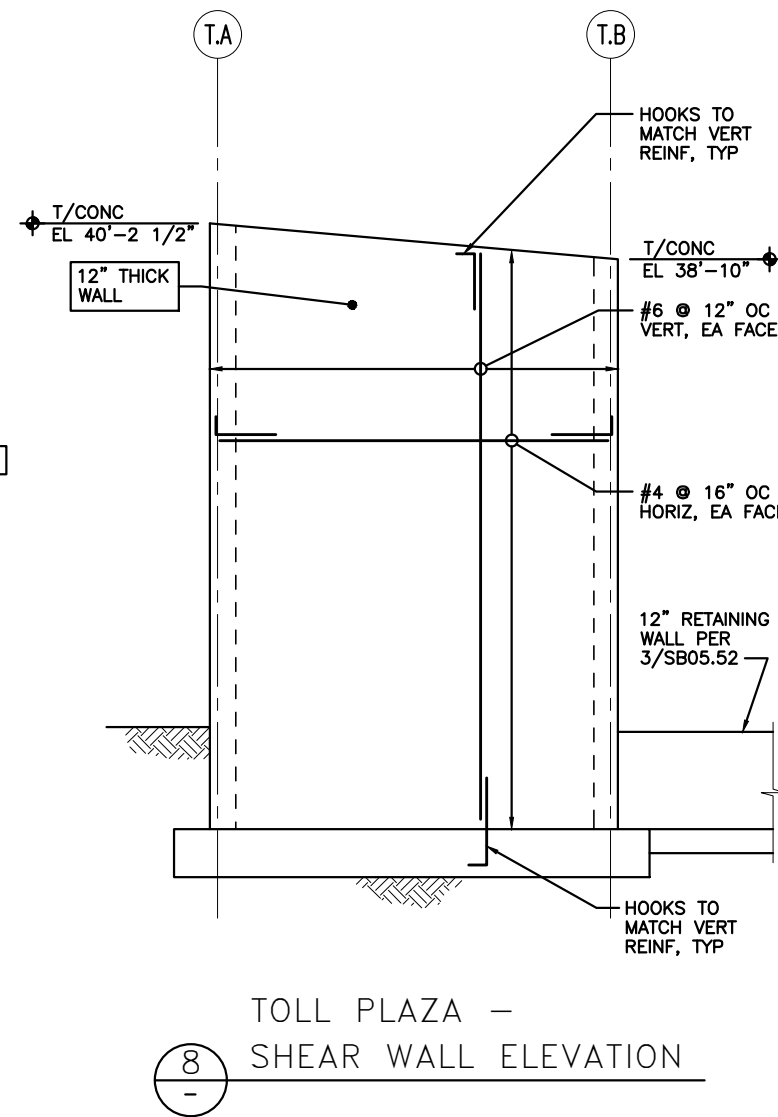
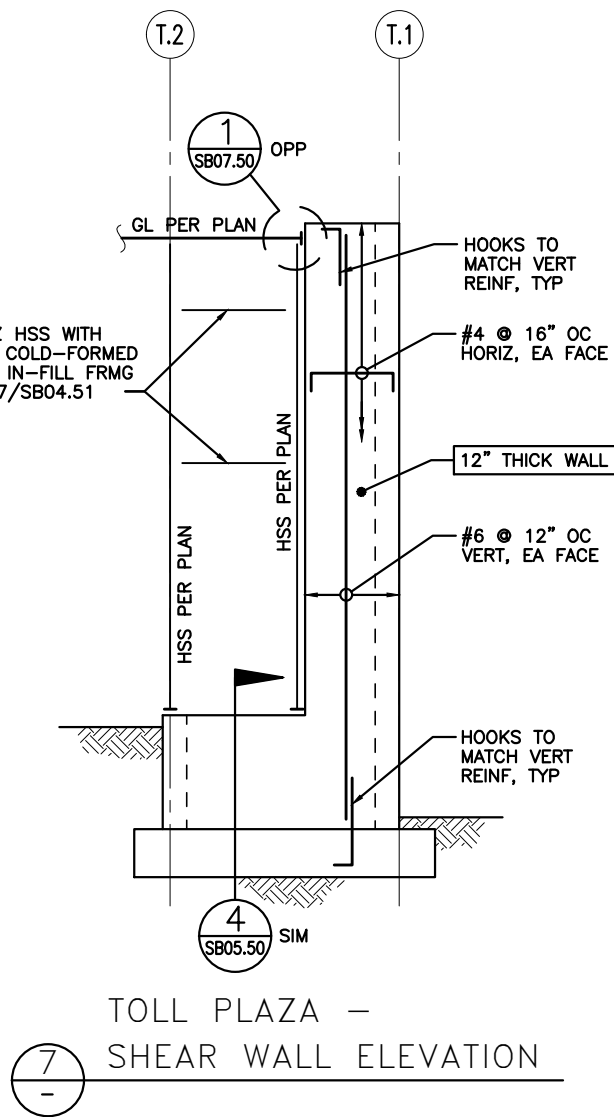
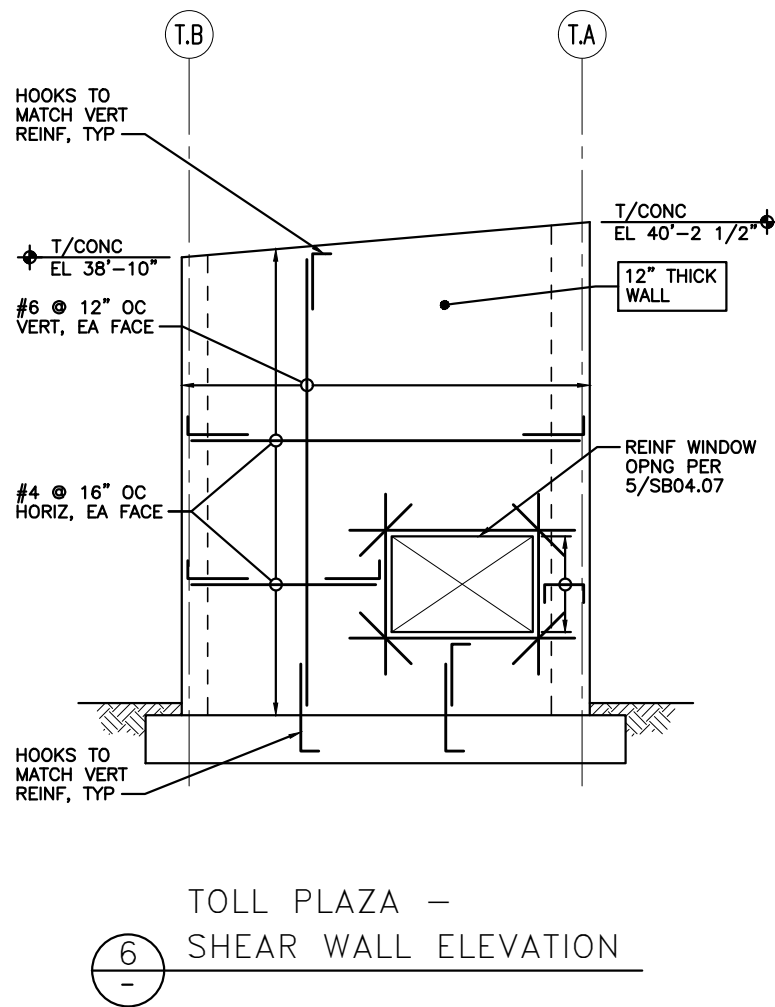
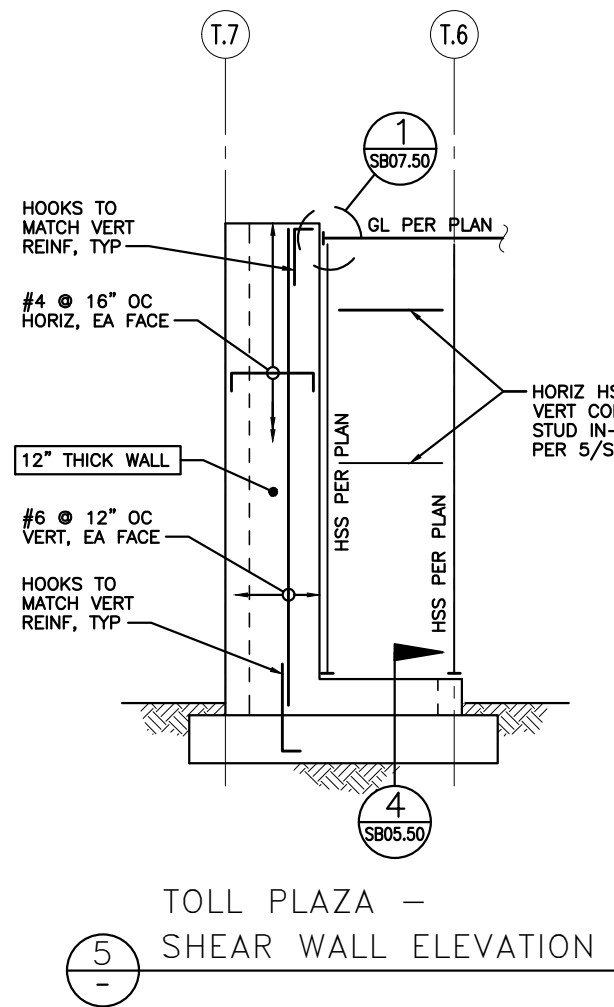


SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	
GATE ELEVATIONS – MAINTENANCE BLDG	



SB04.11
SHEET
1141
OF
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SHEETS

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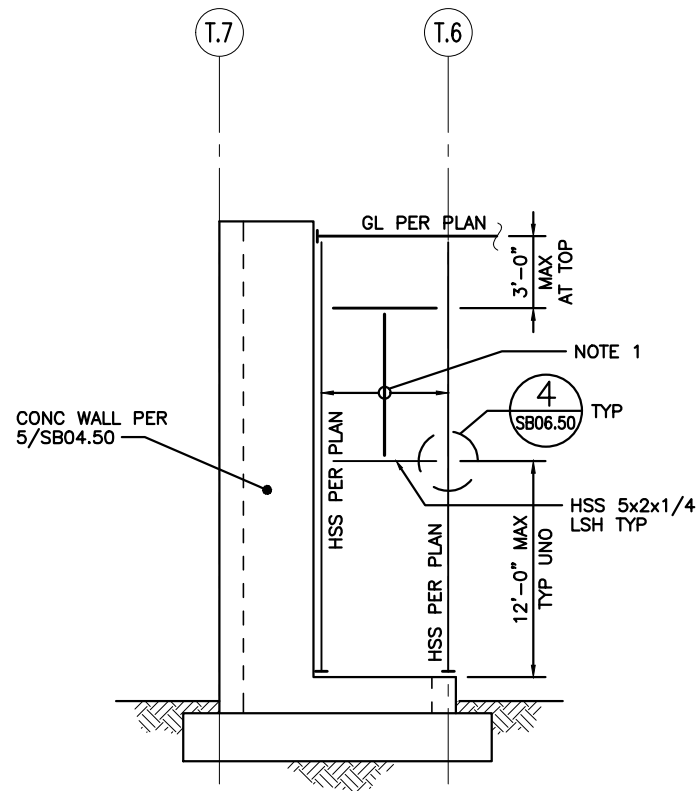


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
SHEAR WALL ELEVATIONS - TOLL PLAZA

kpff

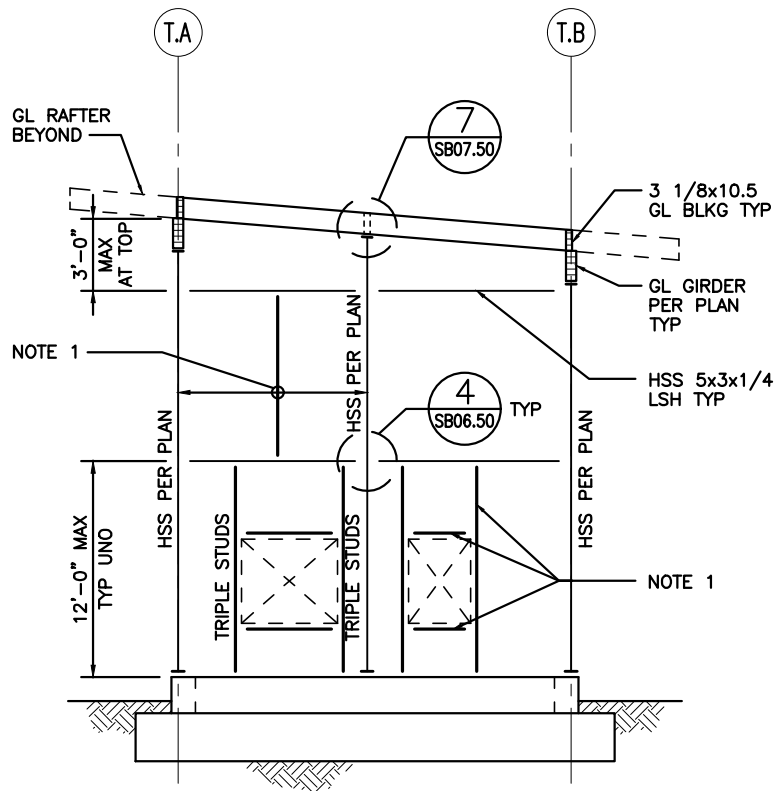
SB04.50
SHEET
1142
OF
1521
SHEETS

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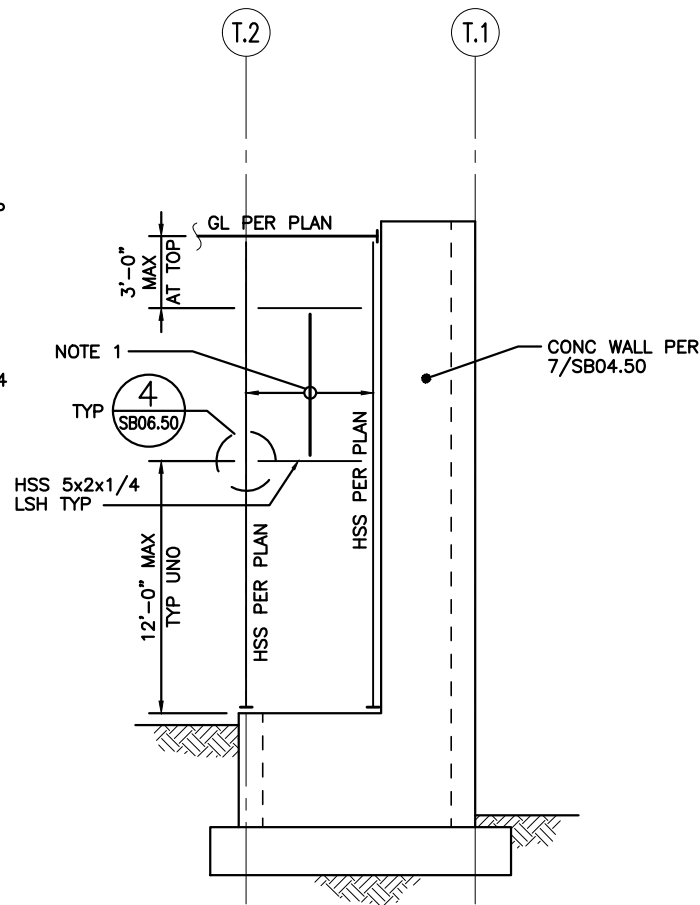
NOTES:
1. COLD-FORMED STUD VERTICAL IN-FILL FRAMING PER 3/SB08.00. FRAMING AROUND WINDOW/DOOR OPENINGS PER 3/SB08.00 TYP UNO.

5 TOLL PLAZA –
WALL ELEVATION



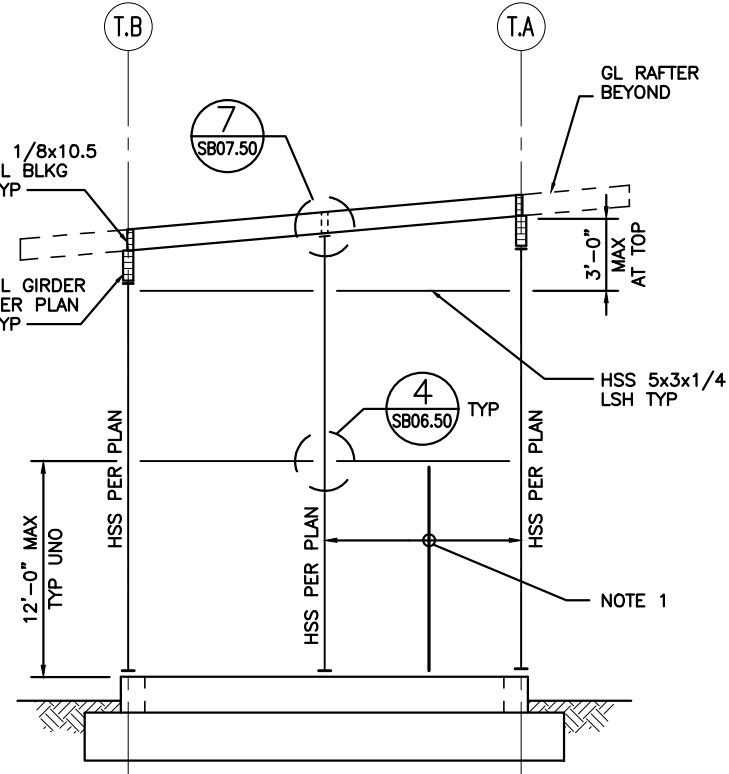
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6 TOLL PLAZA –
WALL ELEVATION



NOTES:
1. COLD-FORMED STUD VERTICAL IN-FILL FRAMING PER 3/SB08.00. FRAMING AROUND WINDOW/DOOR OPENINGS PER 3/SB08.00 TYP UNO.

7 TOLL PLAZA –
WALL ELEVATION



NOTES:
1. COLD-FORMED STUD VERTICAL IN-FILL FRAMING PER 3/SB08.00. FRAMING AROUND WINDOW/DOOR OPENINGS PER 3/SB08.00 TYP UNO.

8 TOLL PLAZA –
WALL ELEVATION

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DESIGNED BY: A. RADKE	08/23/2018			REGION NO. STATE	10 WASH		
ENTERED BY: B. RONIA	08/23/2018			JOB NUMBER	18W121		
CHECKED BY: A. EWING	08/23/2018			CONTRACT NO.	00****		
MAR PROJ ENGR C. TORRES							
DIR TERM ENGR: N. MCINTOSH							
ASST SECRETARY: A. SCARTON							
	REVISION		DATE	BY			



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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
WALL ELEVATIONS – TOLL PLAZA

kpff

SB04.51
SHEET
1143
OF
1521
SHEETS

File: U:\14000-114350\114177 (Mukilteo Ferry Terminal)\04 Details\14W121SB05_00.dwg
Plotted: 9/21/18 at 2:40pm By: DianeL

f'c= 4,000 psi
fy = 60,000 psi

Size	Ld	Ldt	Lb	Lbt	Ldh
#4	19 (28)	25 (37)	25 (37)	32 (48)	9
#5	24 (36)	31 (46)	31 (46)	40 (60)	12
#6	28 (43)	37 (55)	37 (55)	48 (72)	14
#7	42 (62)	54 (81)	54 (81)	70 (105)	17
#8	47 (71)	62 (92)	62 (92)	80 (120)	19
#9	54 (80)	70 (104)	70 (104)	90 (136)	21

f'c= 5,000 psi
fy = 60,000 psi

Size	Ld	Ldt	Lb	Lbt	Ldh
#4	17 (25)	22 (33)	22 (33)	29 (43)	8
#5	21 (32)	28 (41)	28 (41)	36 (54)	11
#6	25 (38)	33 (50)	33 (50)	43 (65)	13
#7	37 (56)	48 (72)	48 (72)	63 (94)	15
#8	42 (64)	55 (83)	55 (83)	72 (108)	17
#9	48 (72)	62 (93)	62 (93)	81 (121)	19

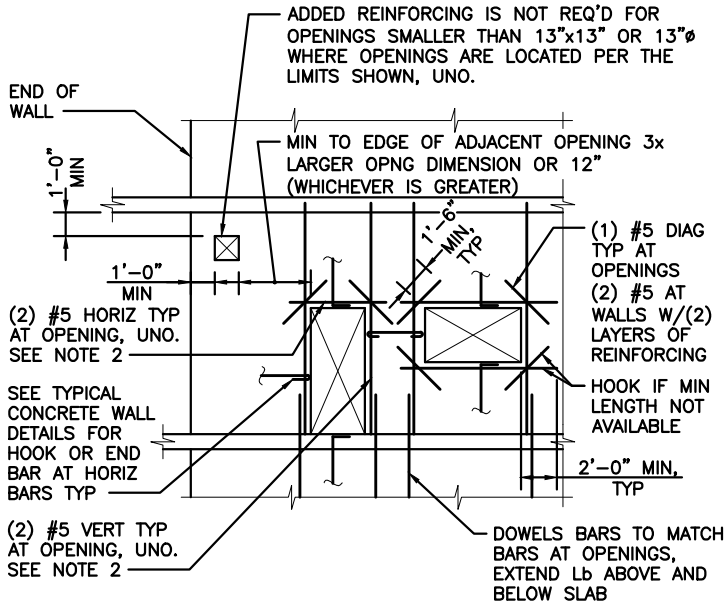
NOTES:

- USE THE LENGTHS IN THIS SCHEDULE, UNLESS NOTED OTHERWISE.
- USE LENGTH IN () WHEN BAR COVER IS db OR LESS OR BAR CLEAR SPACING IS 2db OR LESS.
- A TOP BAR IS A HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.

ABBREVIATIONS:

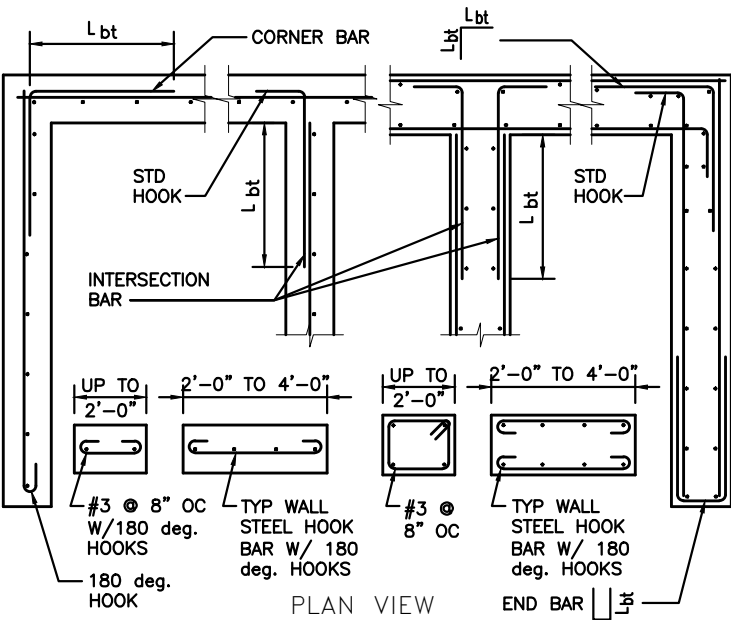
- db = BAR DIAMETER
Ld = TENSION DEVELOPMENT LENGTH
Ldt = TENSION DEVELOPMENT LENGTH FOR A TOP BAR
Lb = CLASS B LAP SPLICE LENGTH, 1.3 Ld
Lbt = CLASS B LAP SPLICE LENGTH FOR A TOP BAR, 1.3 Ldt
Ldh = TENSION DEVELOPMENT LENGTH FOR A STANDARD HOOK

DEVELOPMENT LENGTH
AND SPLICE SCHEDULE



- NOTES:
- BARS SHOWN ARE IN ADDITION TO WALL REINFORCING NOTED ELSEWHERE.
 - PROVIDE AN ADDITIONAL BAR FOR EACH HORIZONTAL OR VERTICAL BAR INTERRUPTED BY OPENING.
 - PROVIDE HOOKS AT ALL INTERRUPTED BARS AS SHOWN.

4 TYPICAL CONCRETE WALL REINF



TYPICAL CONCRETE
WALL DETAILS

FILE NAME: 14W121SB05_00.dwg						FED.AID PROJ.NO.	
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ENTERED BY: B. RONIA	08/23/2018					JOB NUMBER	
CHECKED BY: A. EWING	08/23/2018					18W121	
MAR PROJ ENGR C. TORRES						CONTRACT NO.	
DIR TERM ENGR: N. MCINTOSH						00****	
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY			



08/23/2018
DATE



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

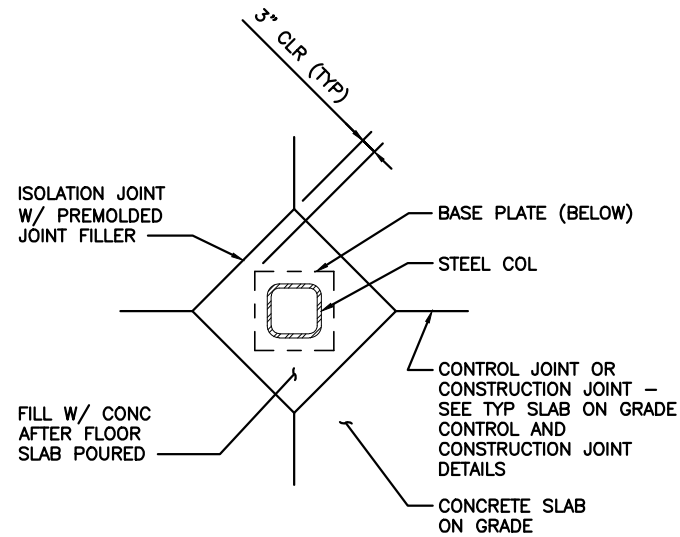
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

TYPICAL CONCRETE DETAILS

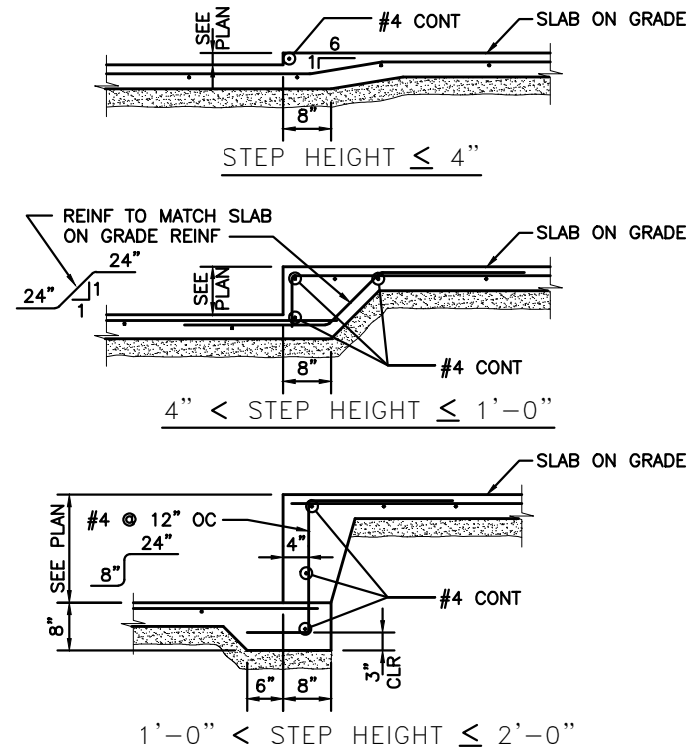
kpff

SB05.00

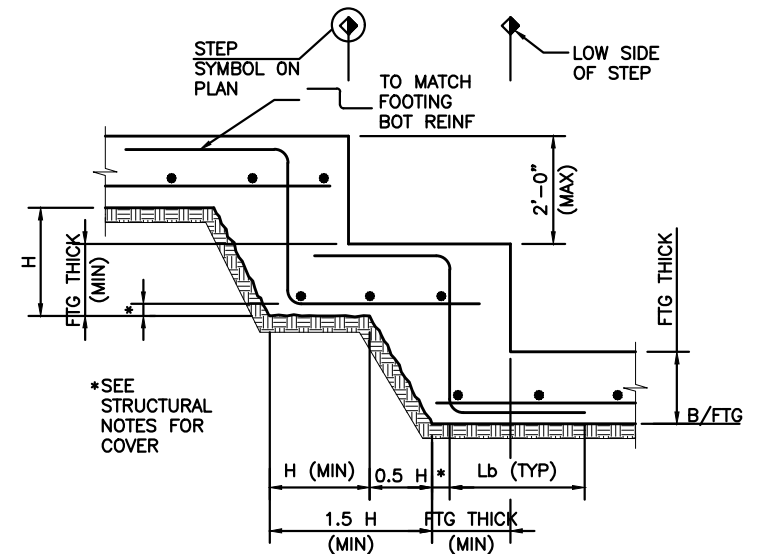
SHEET
1144
OF
1521
SHEETS



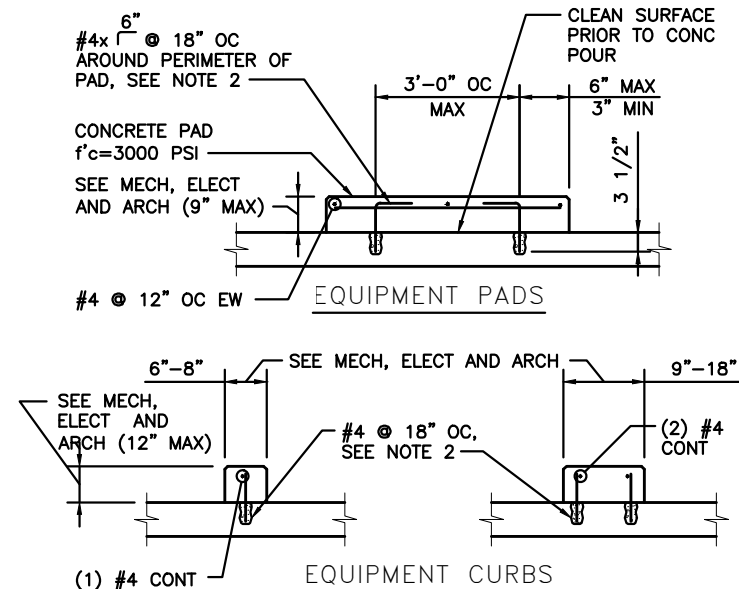
2 TYPICAL ISOLATION JOINT AT STEEL COLUMN



3 TYPICAL SOG STEP DETAIL

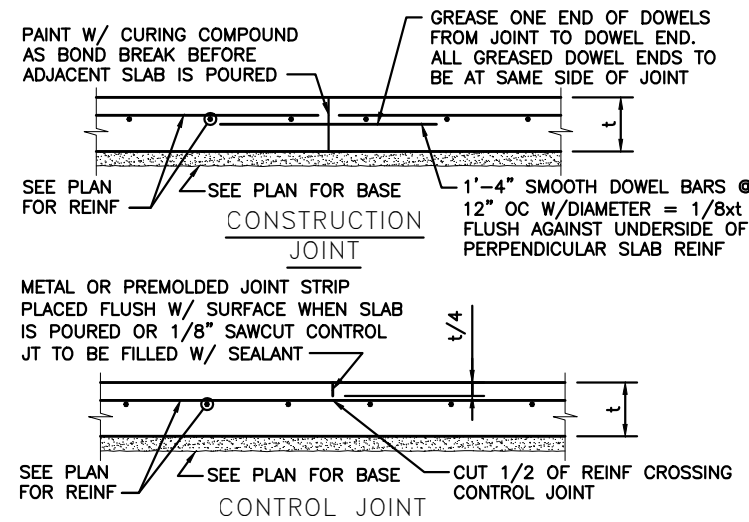


4 TYPICAL STEPPED FOOTING



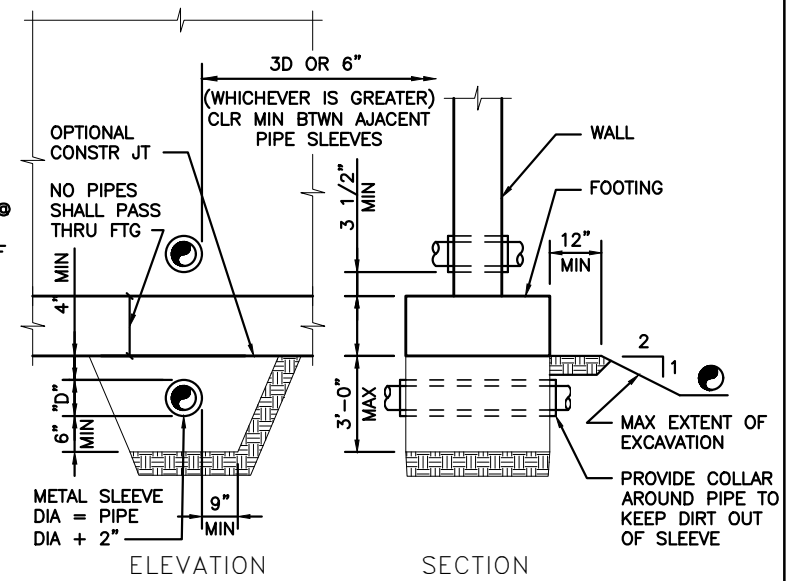
- NOTES:
- EQUIPMENT PAD SIZE TO BE 6" LARGER THAN EQUIPMENT IN EACH DIRECTION, UNO. COORDINATE EXACT SIZE AND LOCATION OF CURB AND PADS WITH EQUIPMENT PROVIDED.
 - ATTACH REBAR TO SLAB WITH HILTI HIT-RE 500-V3 ADHESIVE, OR APPROVED EQUAL.

6 TYPICAL EQUIP CURB & PADS



- NOTES:
- REFER TO PLAN FOR SLAB THICKNESS AND REINFORCING.
 - CONTROL JOINTS TO BE SPACED @ 15'-0" OC MAX, EACH WAY, UNO. RATIO OF DISTANCE BETWEEN CONTROL JOINTS IN EACH DIRECTION FOR A SLAB PANEL SHALL NOT EXCEED 1.5. CONSTRUCTION JOINTS PER THIS DETAIL SHALL BE CONSIDERED AS CONTROL JOINTS FOR CONTROL JOINT SPACING REQUIREMENTS.
 - SEE 3/SB05.01 FOR STEPPED SLAB DETAILS AT DEPRESSIONS.

7 SOG CONTROL/CONST JOINTS



- NOTES:
- STEP FOOTING PER TYPICAL STEPPED FOOTING DETAIL AS REQUIRED TO SATISFY THESE CONDITIONS.
 - GENERAL CONTRACTOR TO COORDINATE EXACT DEPTH AND LOCATION OF PIPE.
 - "D" SHALL NOT EXCEED 8".

8 TYP PIPE AT FOOTING

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ENTERED BY:	B. RONIA	08/23/2018			WA-2017-007-00
CHECKED BY:	A. EWING	08/23/2018			REGION NO. STATE
MAR PROJ ENGR	C. TORRES				10 WASH
DIR TERM ENGR:	N. MCINTOSH				JOB NUMBER
ASST SECRETARY:	A. SCARTON				18W121
					CONTRACT NO.
					00****
REVISION		DATE	BY		



08/23/2018
DATE

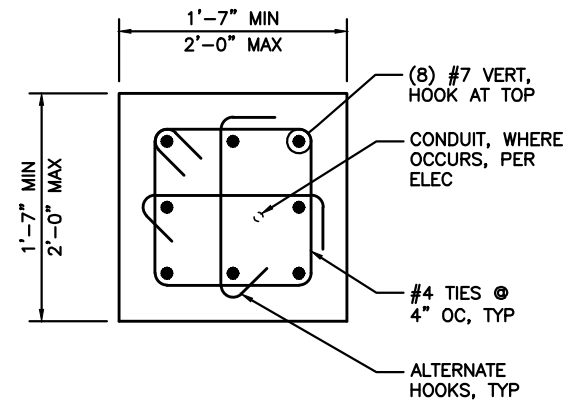
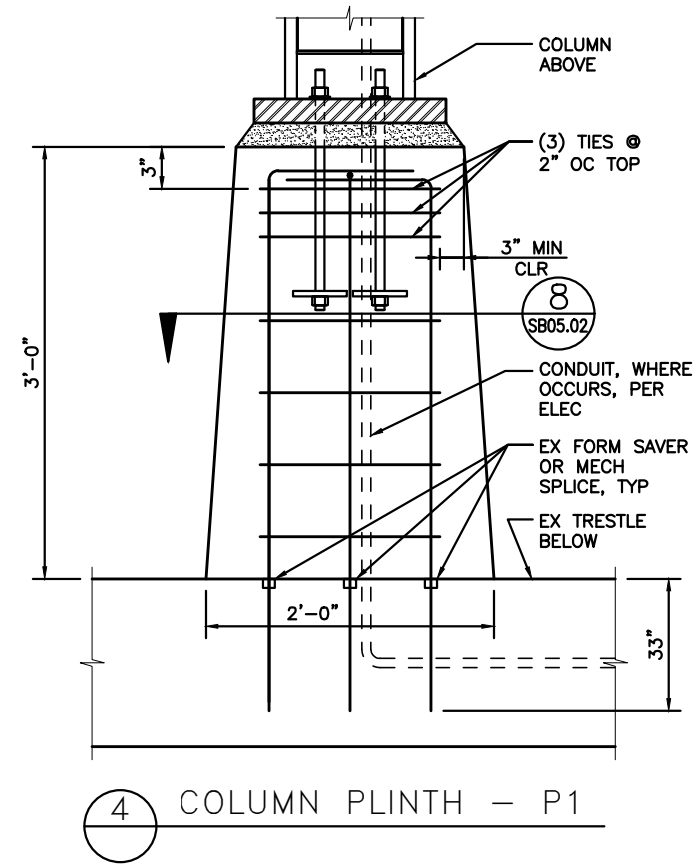
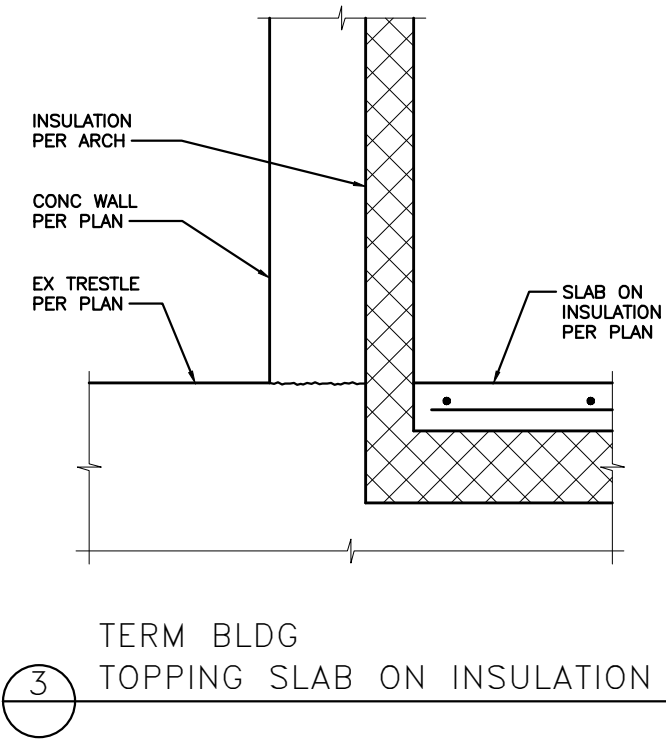


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TYPICAL CONCRETE DETAILS

SB05.01
SHEET
1145
OF
1521
SHEETS

kpff

File: U:\14000-114350\114177 (Mukilteo Ferry Terminal)\04 Details\14W121SB05_02.dwg
Plotted: 9/21/18 at 2:40pm By: DianeL



NOTE:
1. MINIMUM CROSS SECTION DIMENSION AT TOP OF PLINTH.



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DESIGNED BY: A. RADKE	08/23/2018				JOB NUMBER 18W121	
ENTERED BY: B. RONIA	08/23/2018				CONTRACT NO. 00****	
CHECKED BY: A. EWING	08/23/2018					
MAR PROJ ENGR C. TORRES						
DIR TERM ENGR: N. MCINTOSH						
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		

DATE



08/23/2018
DATE

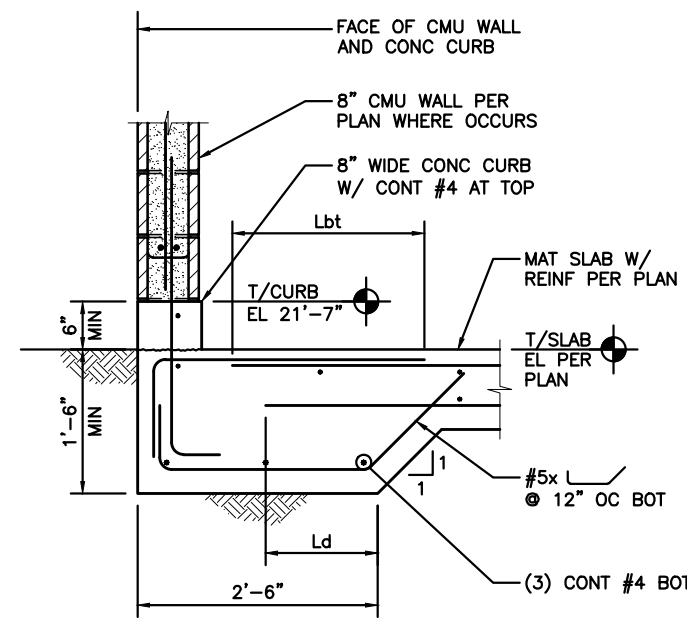


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

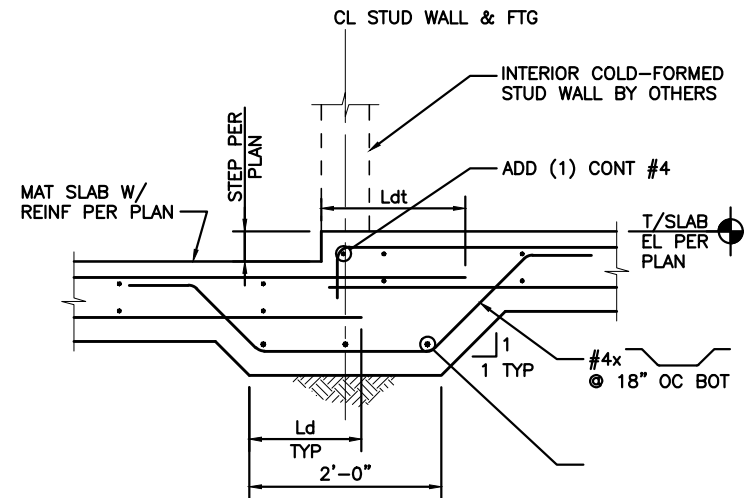
CONCRETE DETAILS

SB05.02

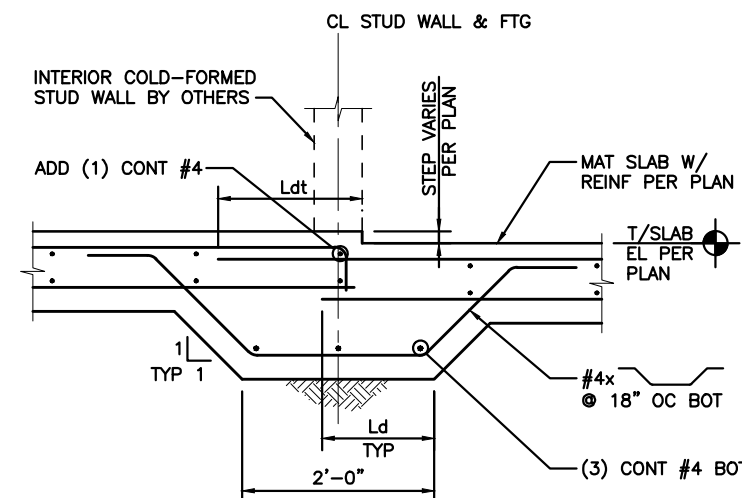
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SHEETS



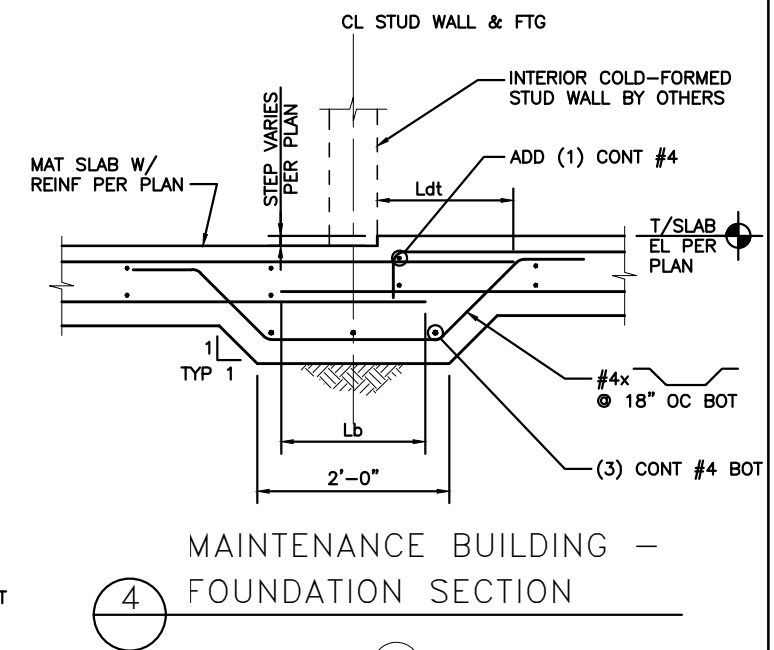
1 MAINTENANCE BUILDING –
FOUNDATION SECTION



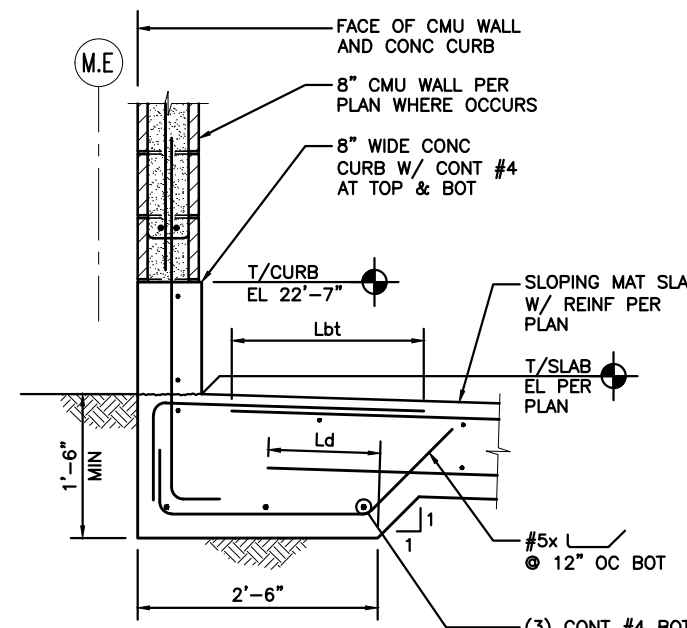
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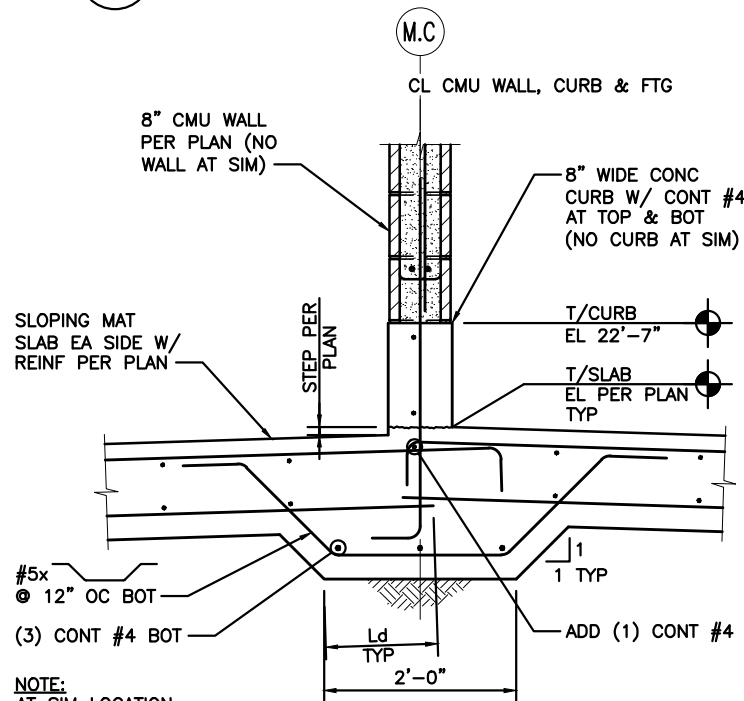
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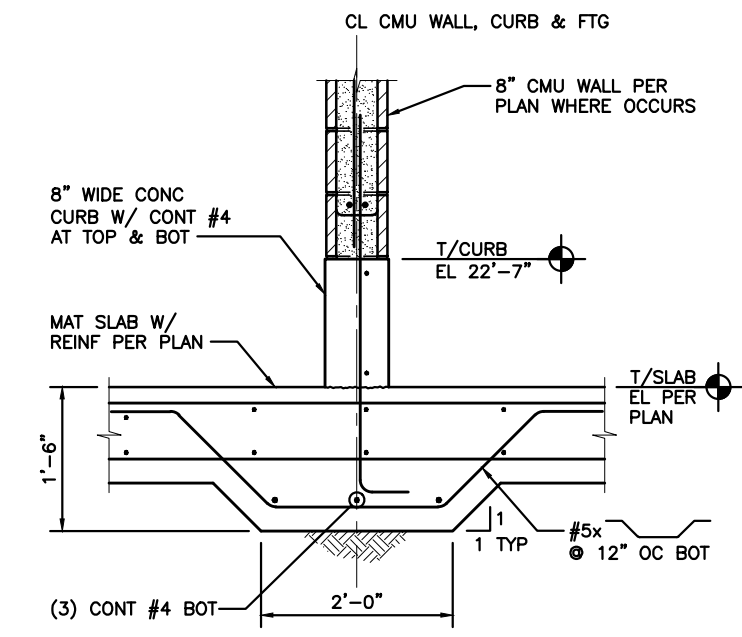
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FOUNDATION SECTION



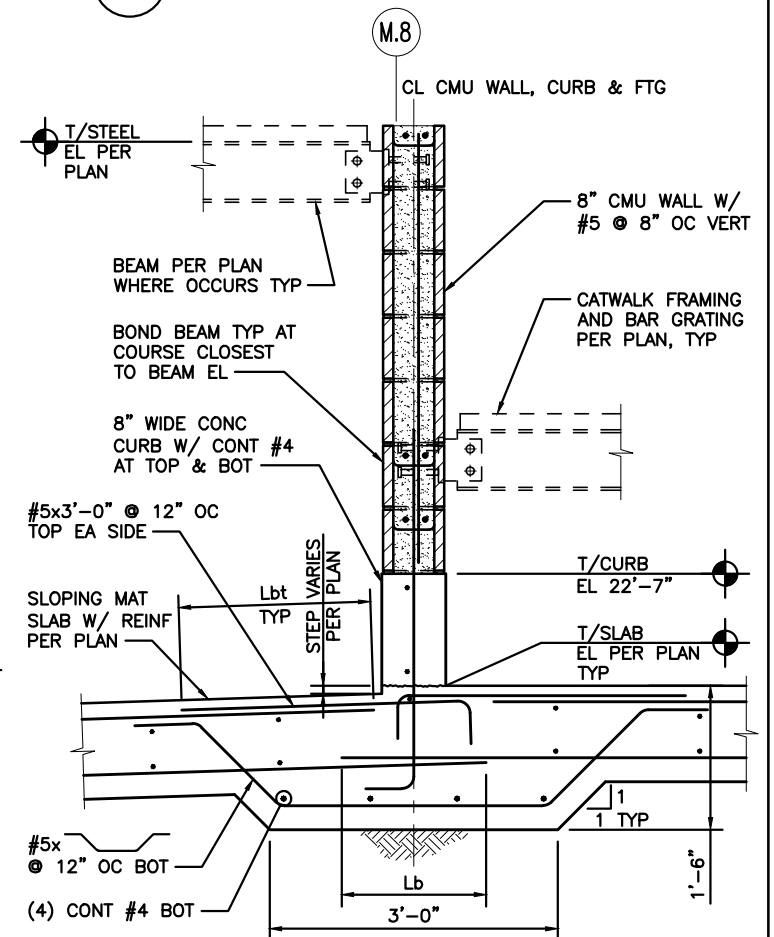
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FOUNDATION SECTION



6 MAINTENANCE BUILDING –
FOUNDATION SECTION



7 MAINTENANCE BUILDING –
FOUNDATION SECTION



8 MAINTENANCE BUILDING –
FOUNDATION SECTION

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DESIGNED BY:	A. RADKE	08/23/2018			
ENTERED BY:	B. RONIA	08/23/2018			
CHECKED BY:	A. EWING	08/23/2018			
MAR PROJ ENGR	C. TORRES				
DIR TERM ENGR:	N. MCINTOSH				
ASST SECRETARY:	A. SCARTON				
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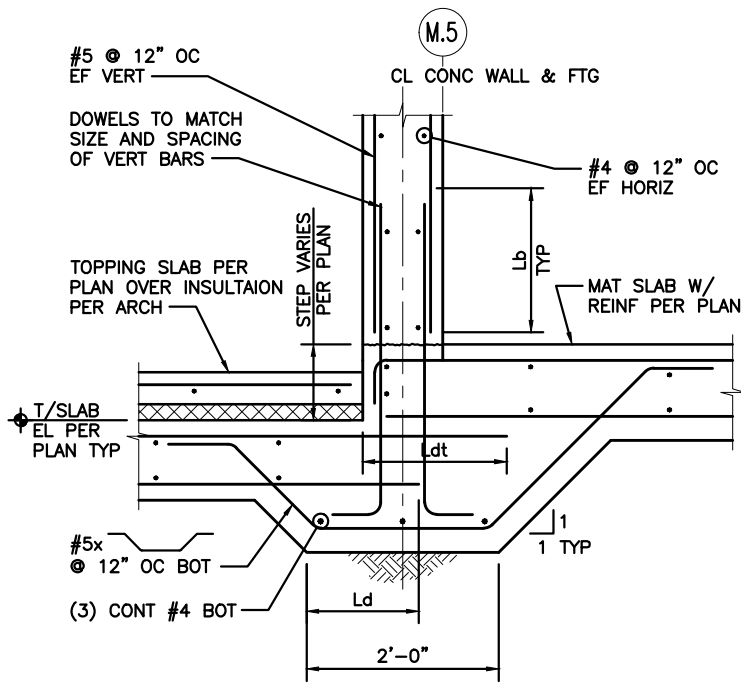


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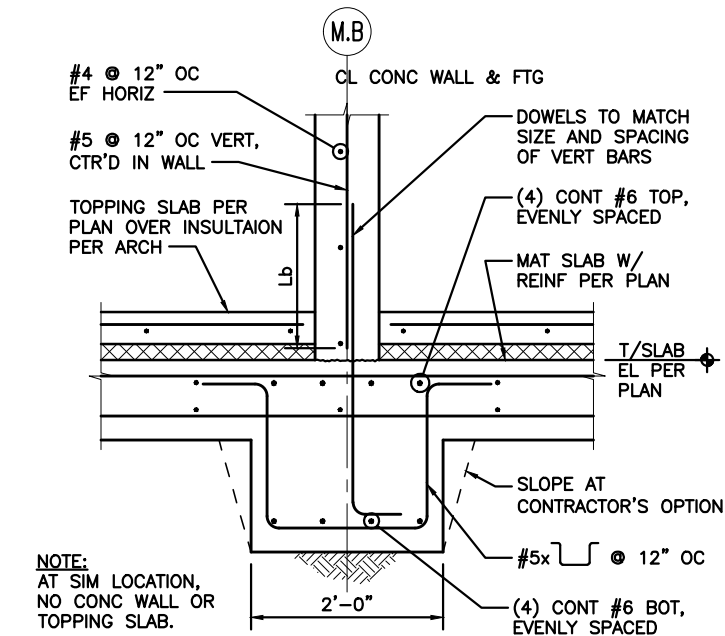


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
CONCRETE DETAILS

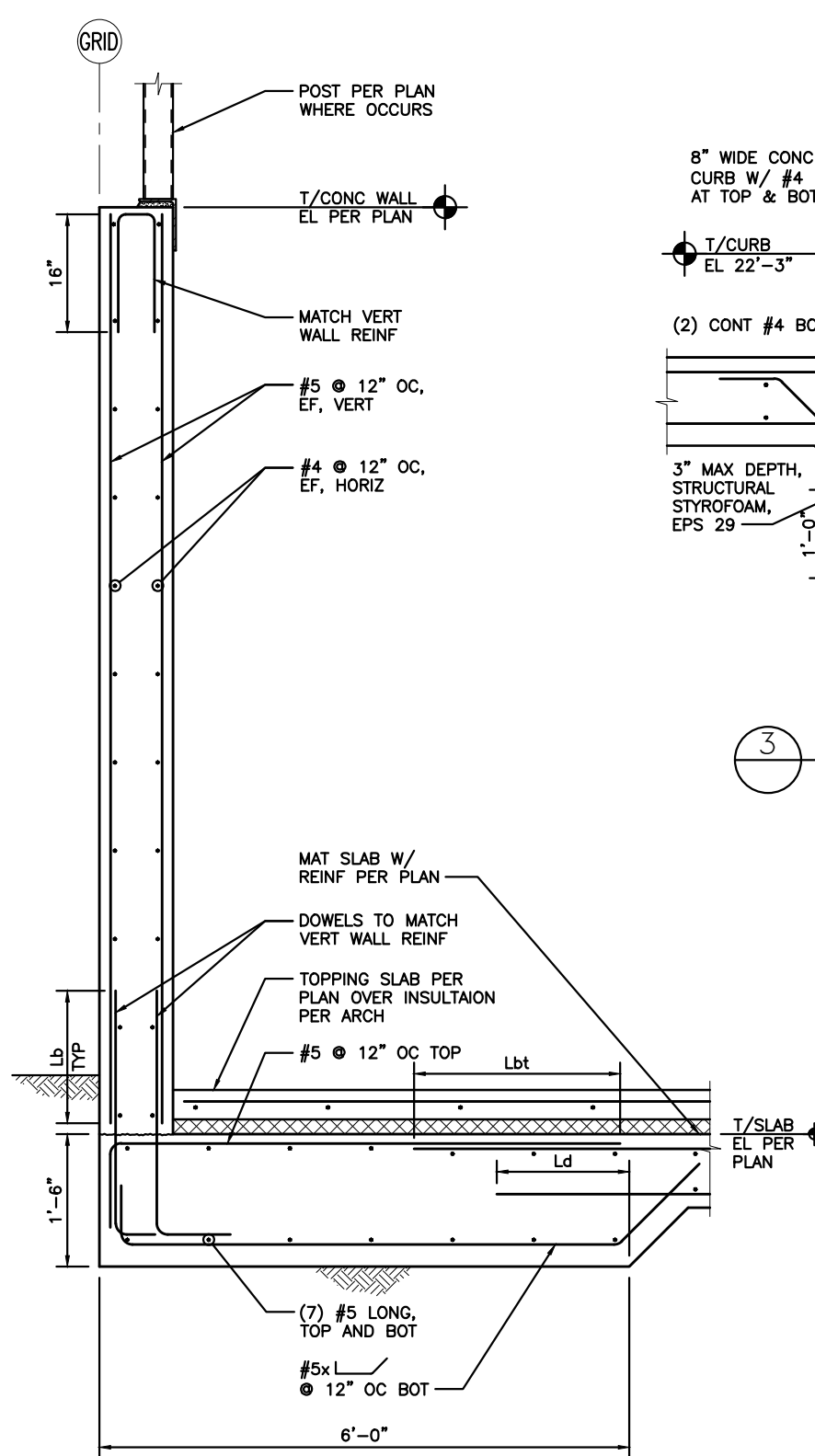
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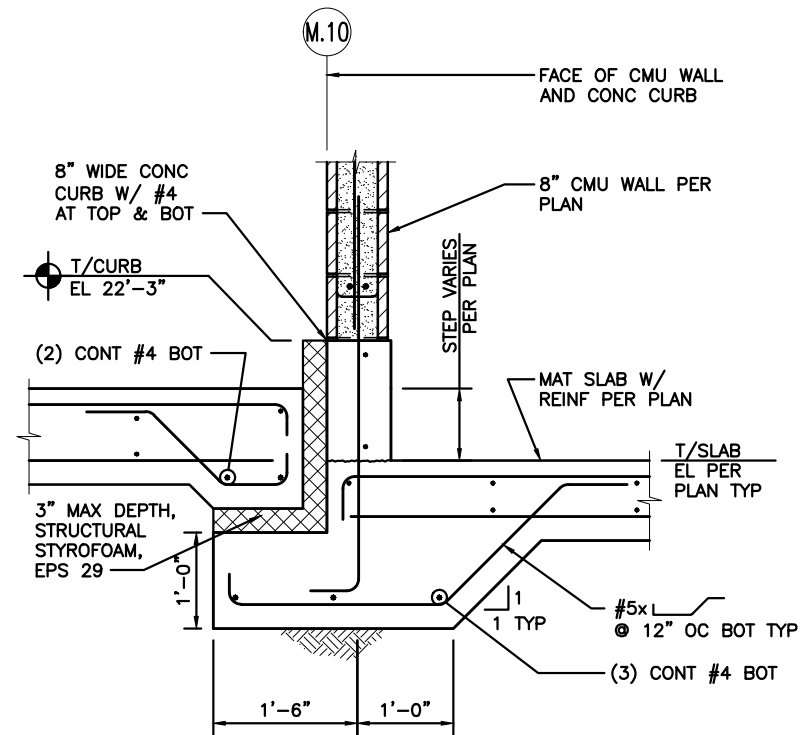
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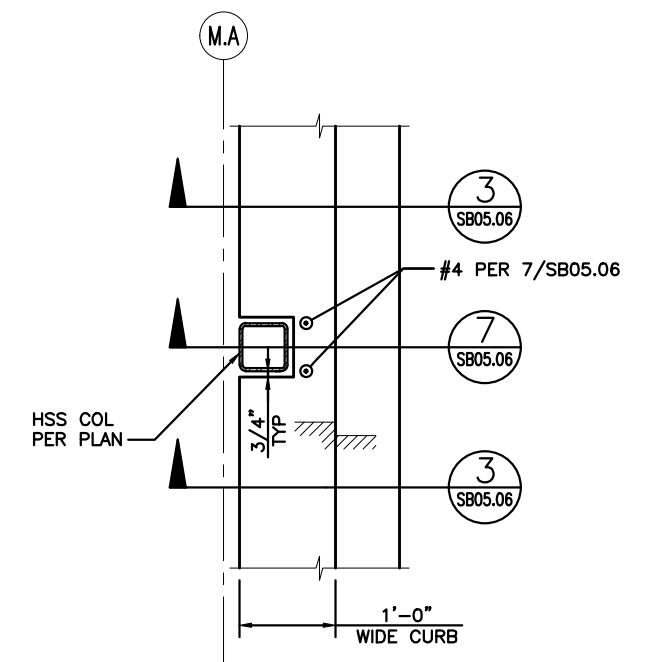
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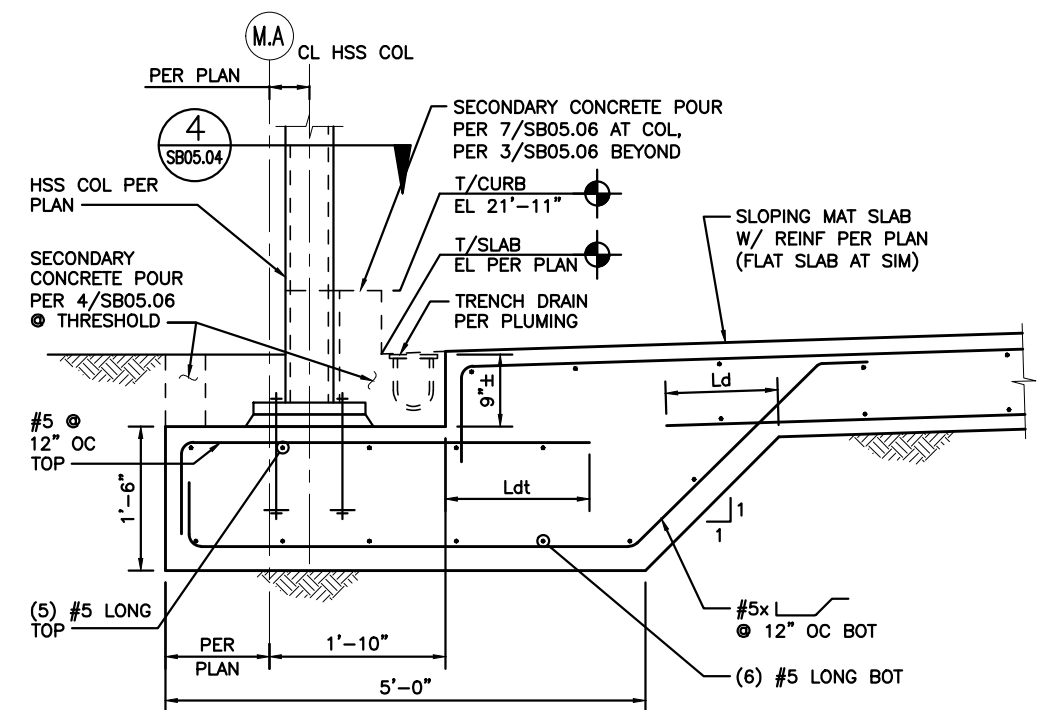
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CLERESTORY CONCRETE
WALL SECTION



MAINTENANCE BUILDING –
FOUNDATION SECTION



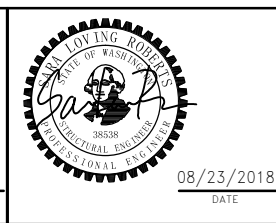
MAINTENANCE BUILDING –
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MAINTENANCE BUILDING –
FOUNDATION SECTION

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ENTERED BY:	B. RONIA	08/23/2018			
CHECKED BY:	A. EWING	08/23/2018			
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.	10
STATE	WASH
JOB NUMBER	18W121
CONTRACT NO.	00****

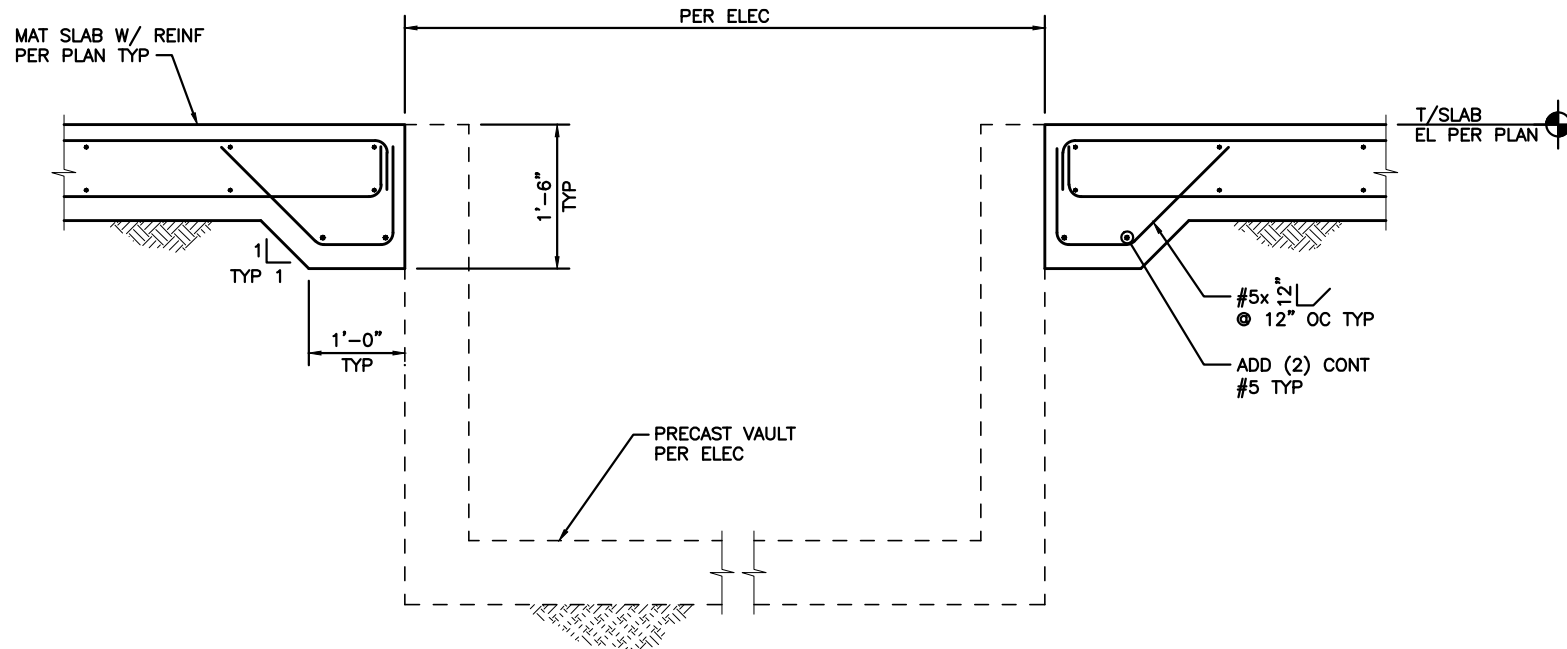


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MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
CONCRETE DETAILS

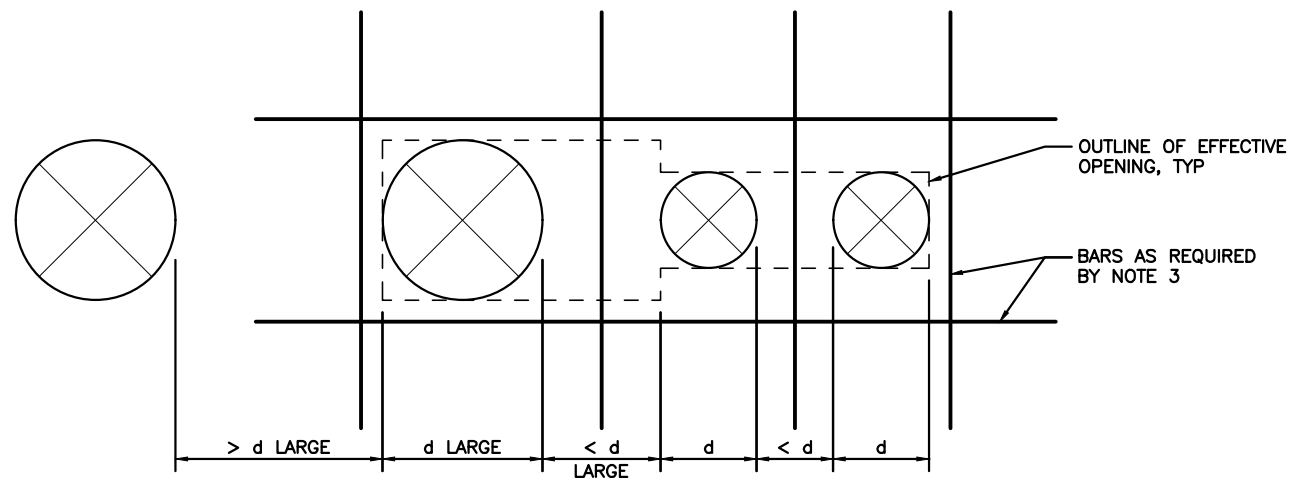
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Plotted: 9/21/18 at 2:40pm By: DianeL



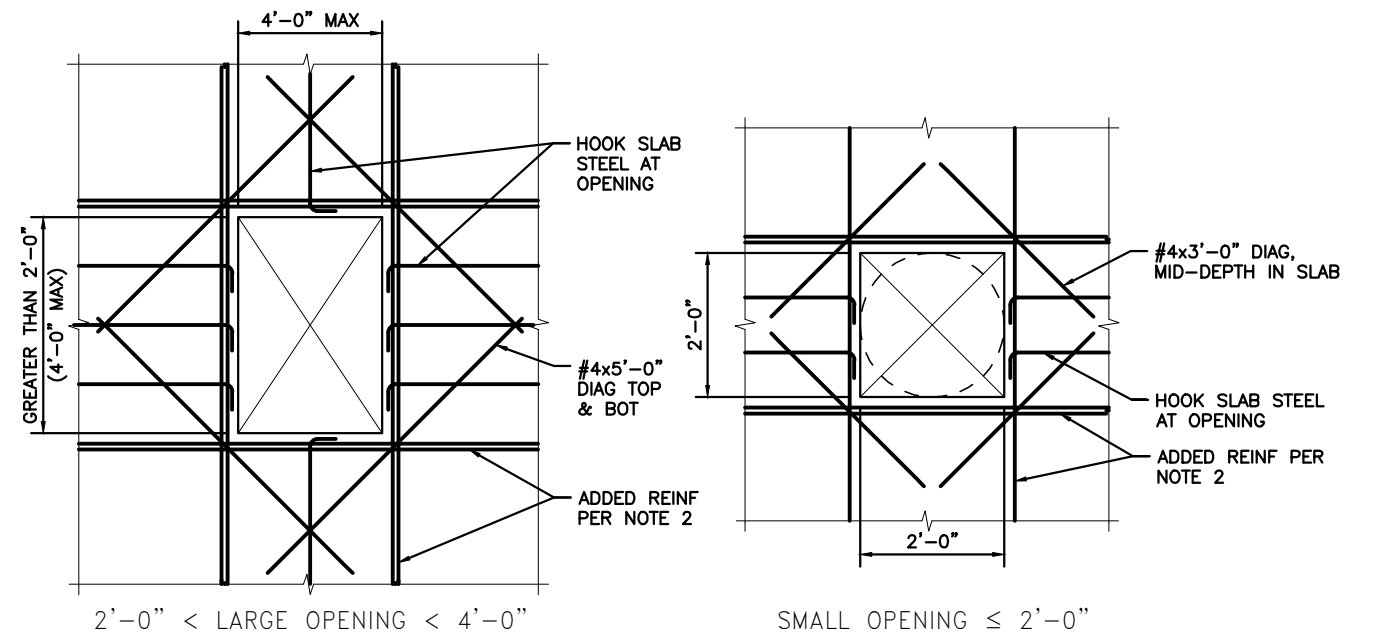
3 TRANSFORMER VAULT



NOTES:

1. DETAIL FOR USE WHERE PENETRATIONS ARE LESS THAN 1'-0" LONG AND WIDE. IF THE EFFECTIVE OPENING LENGTH OR WIDTH IS GREATER THAN 1'-0", FOLLOW THE TRIM REQUIREMENTS PER 7/SB05.05.
2. SPREAD INTERRUPTED REINFORCING AROUND PENETRATIONS.
3. AT MULTIPLE SLAB PENETRATIONS, WHERE THE CLEAR DISTANCE BETWEEN ADJACENT PENETRATIONS IS LESS THAN THE DIAMETER OF THE LARGER PENETRATION, PROVIDE (1) #4 TOP AND BOTTOM TRIM BARS ALL AROUND THE EFFECTIVE OPENING AND BETWEEN PENETRATIONS. EXTEND TRIM BARS 1'-6" PAST THE EFFECTIVE OPENING EDGE. DIAGONAL BARS ARE NOT REQUIRED AT THESE CONDITIONS.
4. THE CLEAR DISTANCE BETWEEN ADJACENT PENETRATIONS SHALL NOT BE LESS THAN THE GREATER OF 1/2x DIAMETER OF THE PENETRATION OR 2".
5. PENETRATIONS ARE NOT PERMITTED WITHIN 4'-0" OF COLUMNS UNLESS NOTED OTHERWISE OR APPROVED BY ENGINEER.

5 TYPICAL SLAB ON GRADE PENETRATIONS



NOTES:

1. ALL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS THAT ARE LARGER THAN 1'-0" SQUARE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO OPENINGS ARE PERMITTED WITHIN 4'-0" OF COLUMNS UNLESS NOTED OTHERWISE OR APPROVED BY ENGINEER.
2. ADDITIONAL REINFORCING AT OPENING SHALL MATCH BAR SIZE, QUANTITY, AND EXTENTS OF REINFORCING INTERRUPTED BY OPENING. PLACE HALF OF ADDED BARS ON EACH SIDE OF OPENING. AT MINIMUM, PROVIDE (2) #4 TOP AND BOTTOM AT EACH SIDE AT LARGE OPENINGS AND (1) #4 TOP AND BOTTOM EACH SIDE AT SMALL OPENINGS, WITH A 2'-0" MINIMUM EXTENSION BEYOND THE OPENING.

7 TYPICAL SLAB ON GRADE OPENING

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ENTERED BY:	B. RONIA	08/23/2018				10 WASH	
CHECKED BY:	A. EWING	08/23/2018				JOB NUMBER	
MAR PROJ ENGR	C. TORRES					18W121	
DIR TERM ENGR:	N. MCINTOSH					CONTRACT NO.	
ASST SECRETARY:	A. SCARTON					00****	
		REVISION	DATE	BY			

DATE



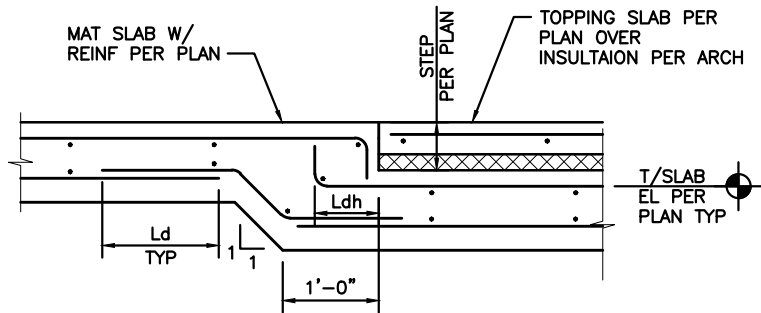
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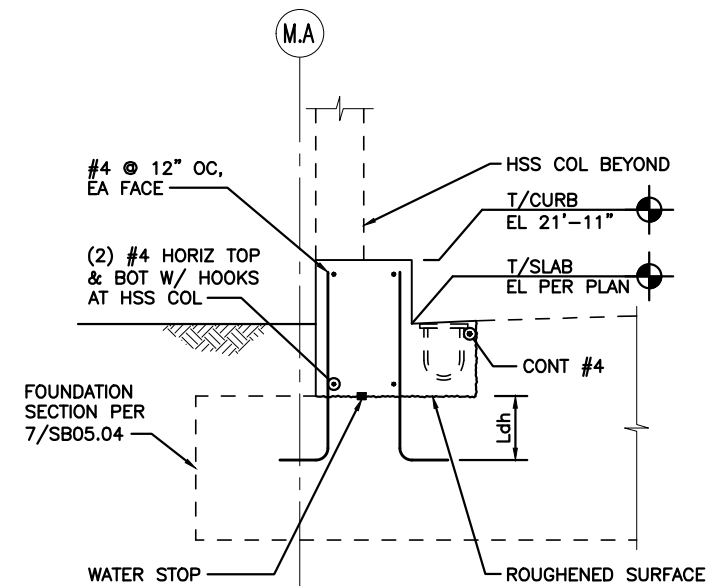
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
CONCRETE DETAILS

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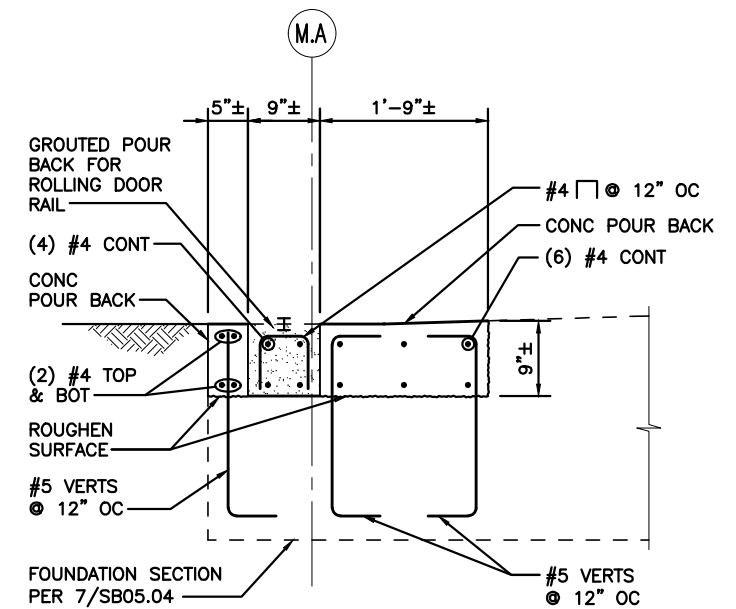
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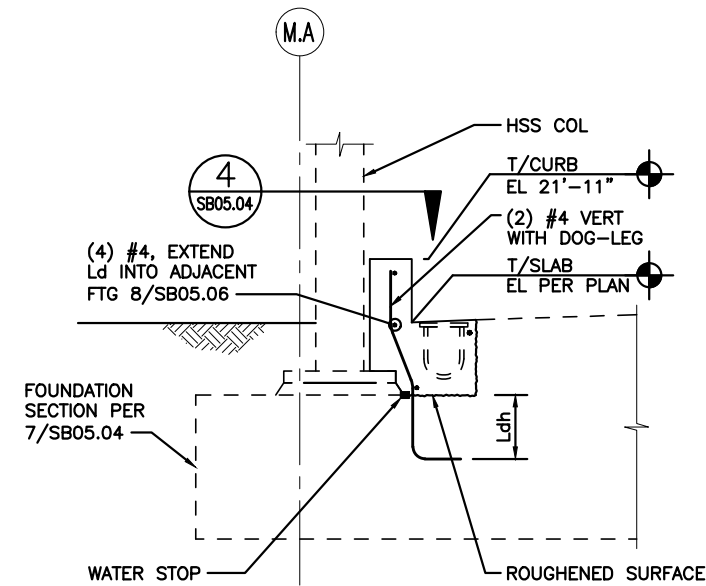
MAINTENANCE BUILDING –
1 SLAB STEP SECTION



MAINTENANCE BUILDING –
3 SECONDARY CONCRETE POUR



MAINTENANCE BUILDING –
4 SECONDARY CONCRETE POUR



MAINTENANCE BUILDING –
7 SECONDARY CONCRETE POUR

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CHECKED BY: A. EWING				18W121			
MAR PROJ ENGR C. TORRES				CONTRACT NO.			
DIR TERM ENGR: N. MCINTOSH				00****			
ASST SECRETARY: A. SCARTON				REVISION			
				DATE			
				BY			



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DATE



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

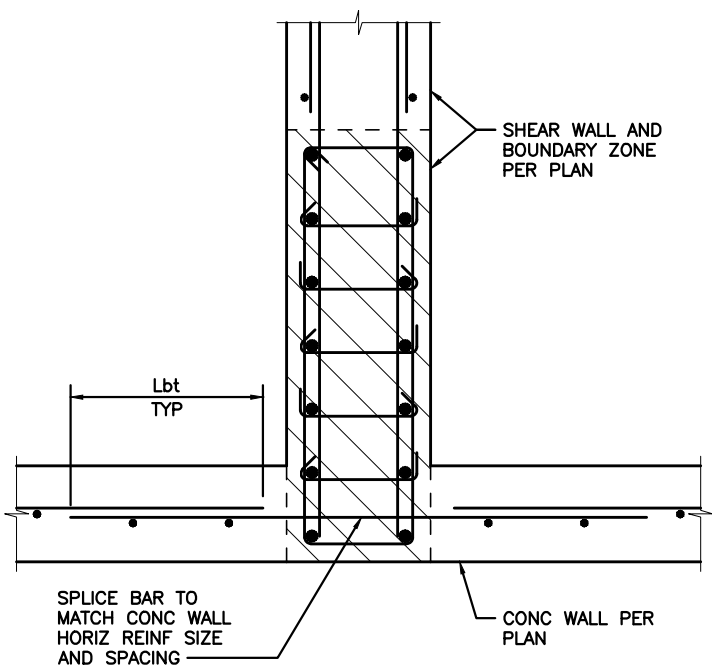
CONCRETE DETAILS

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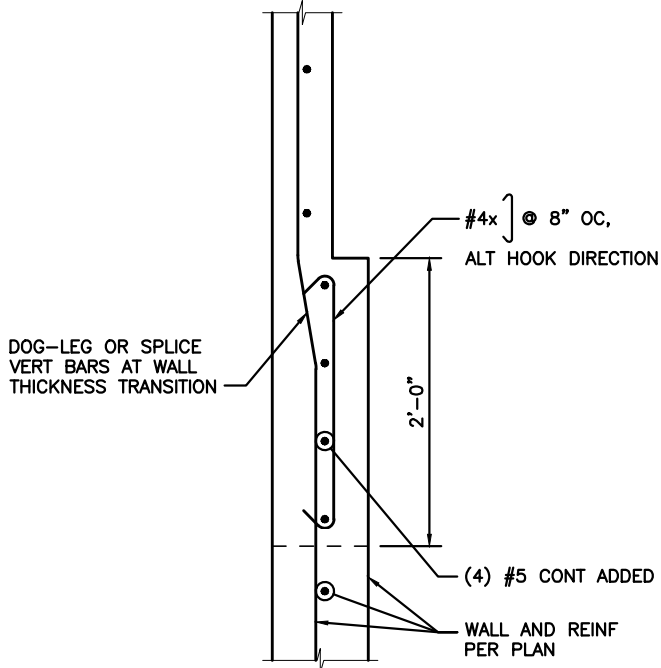
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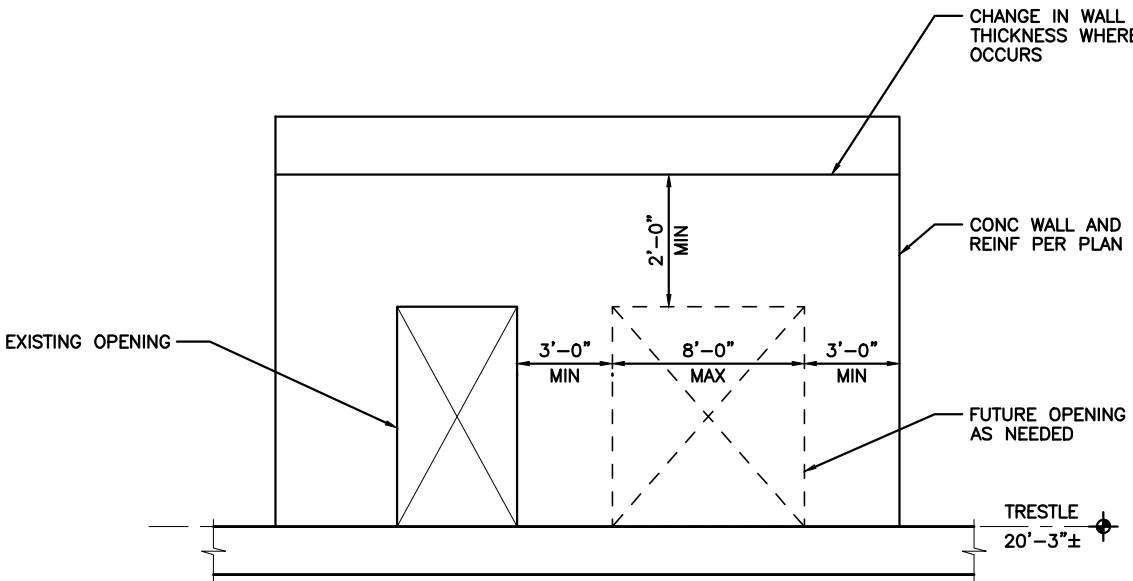
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Plotted: 9/21/18 at 2:40pm By: DianeL



3 CONCRETE WALL DETAIL



4 CONCRETE WALL DETAIL



NOTES:
1. OPENINGS THAT DO NOT MEET THE GIVEN CRITERIA SHOULD BE EVALUATED ON A CASE BY CASE BASIS, AND SUPPLEMENTAL STRUCTURE MAY BE REQUIRED.

8 FUTURE WALL OPENING DETAIL

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FILE NAME: 14W121SB05_07.dwg									
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ENTERED BY:	B. RONIA	08/23/2018						10 WASH	
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MAR PROJ ENGR	C. TORRES							18W121	
DIR TERM ENGR:	N. MCINTOSH							CONTRACT NO.	
ASST SECRETARY:	A. SCARTON							00****	
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DATE



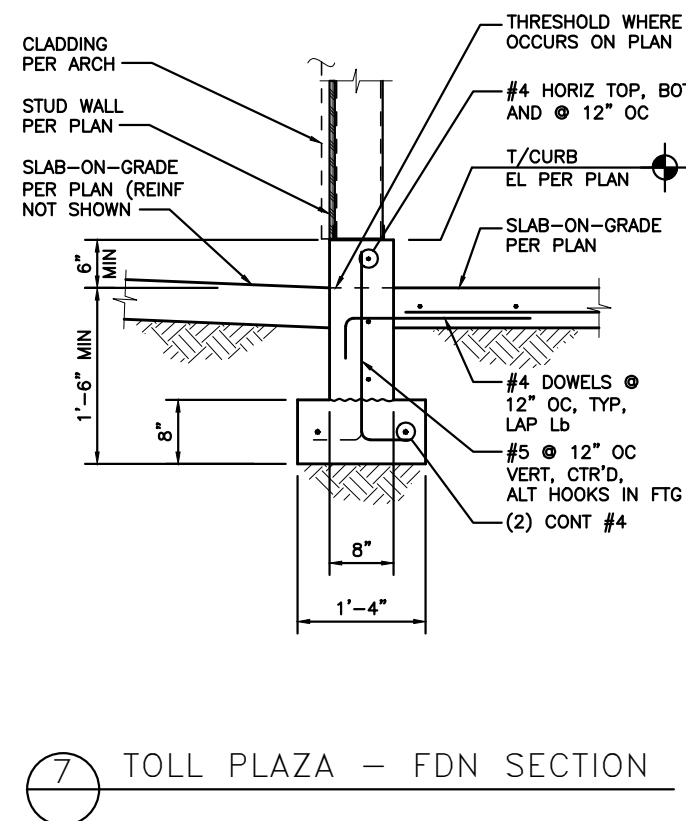
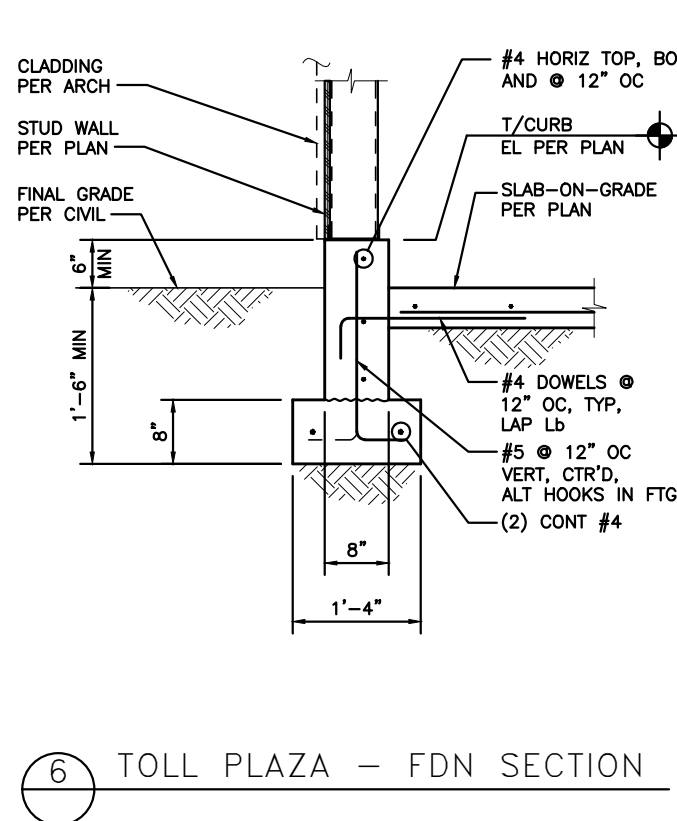
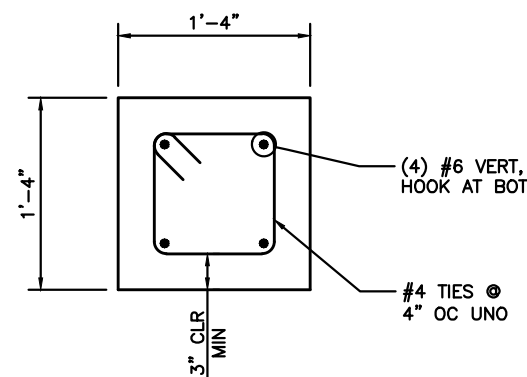
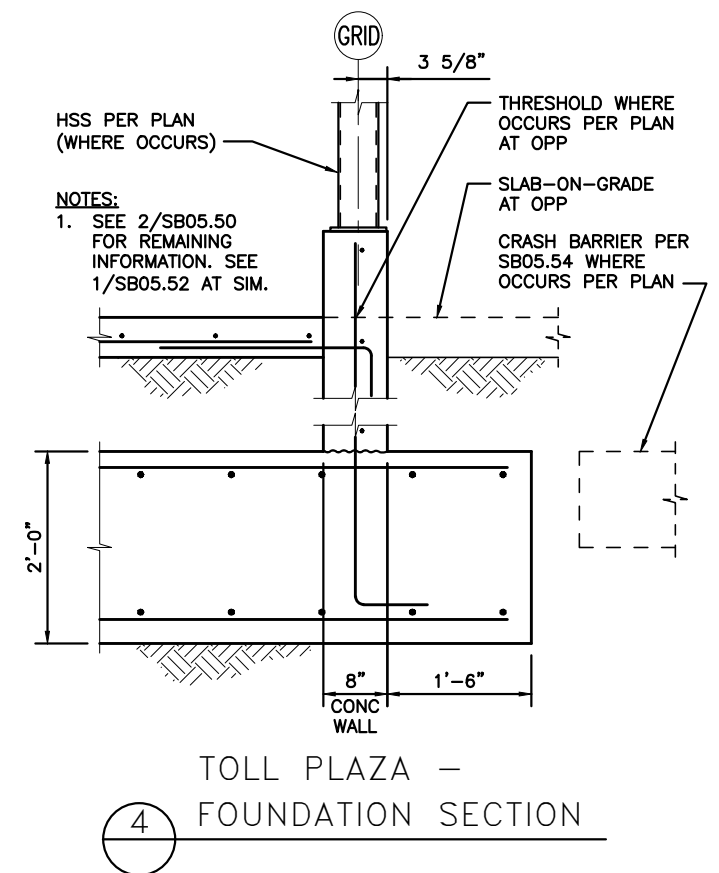
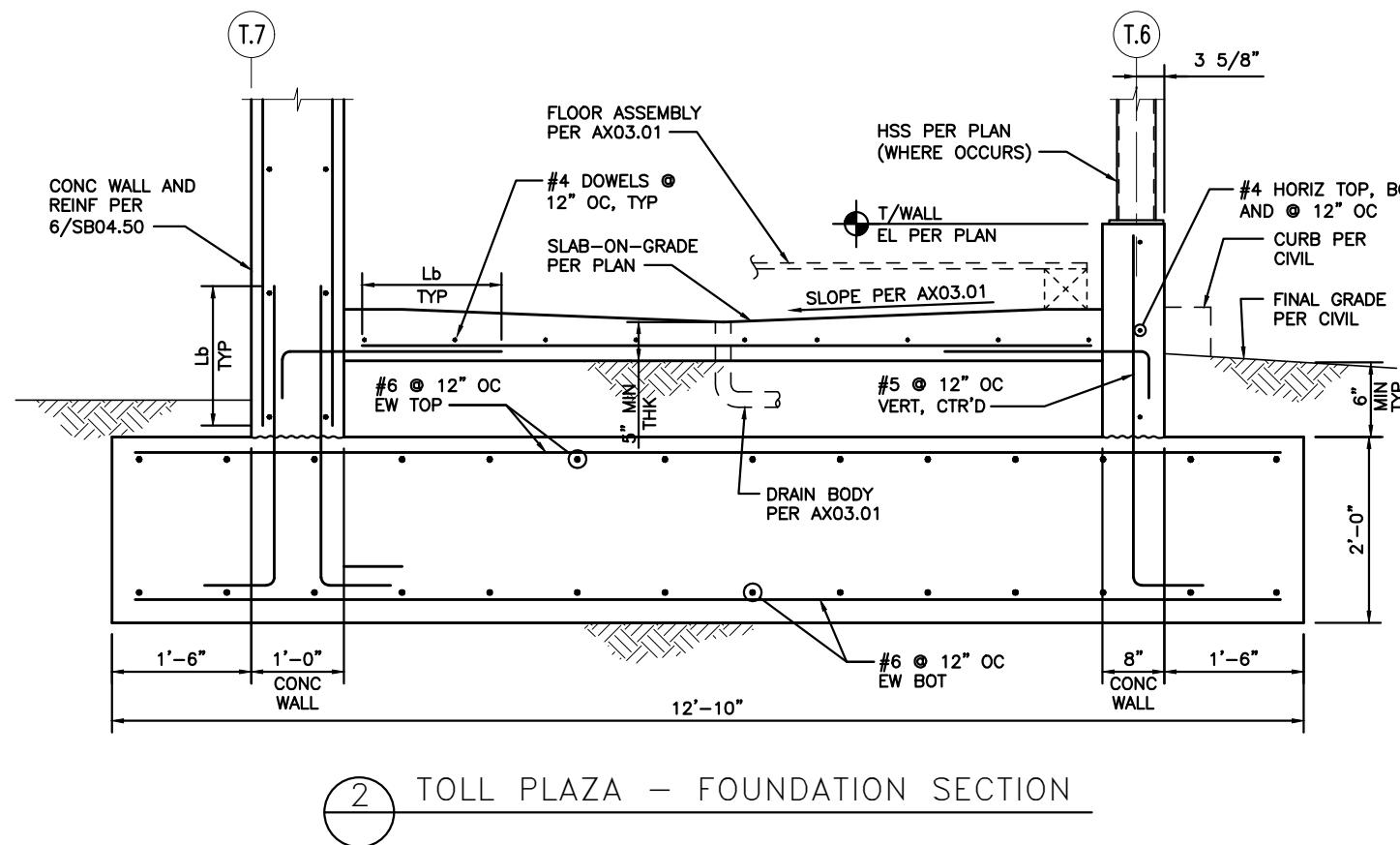
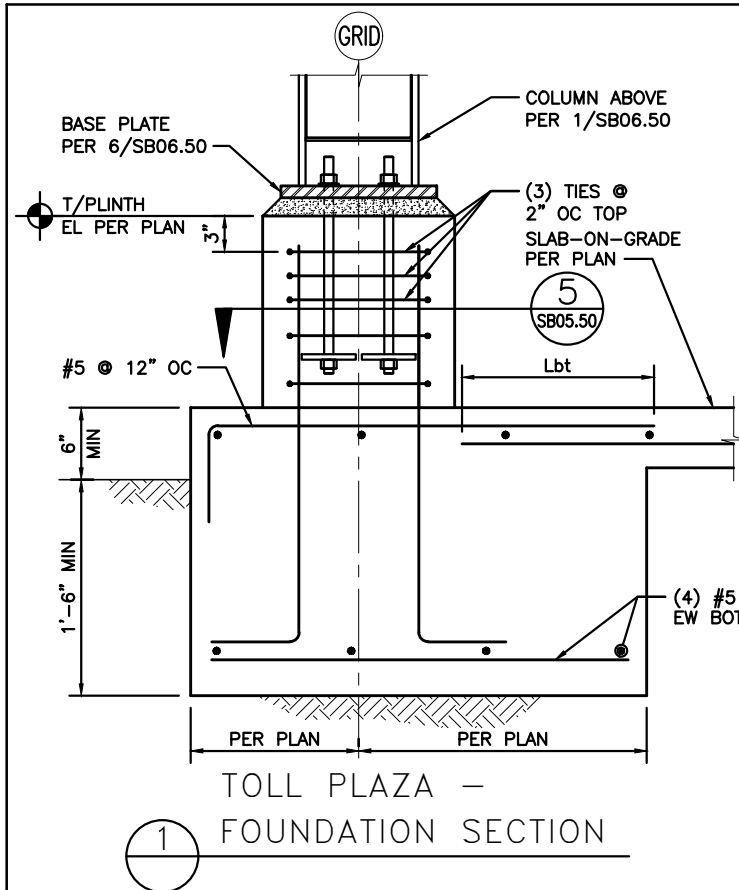
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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

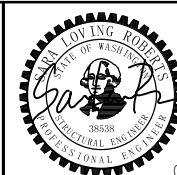
CONCRETE DETAILS

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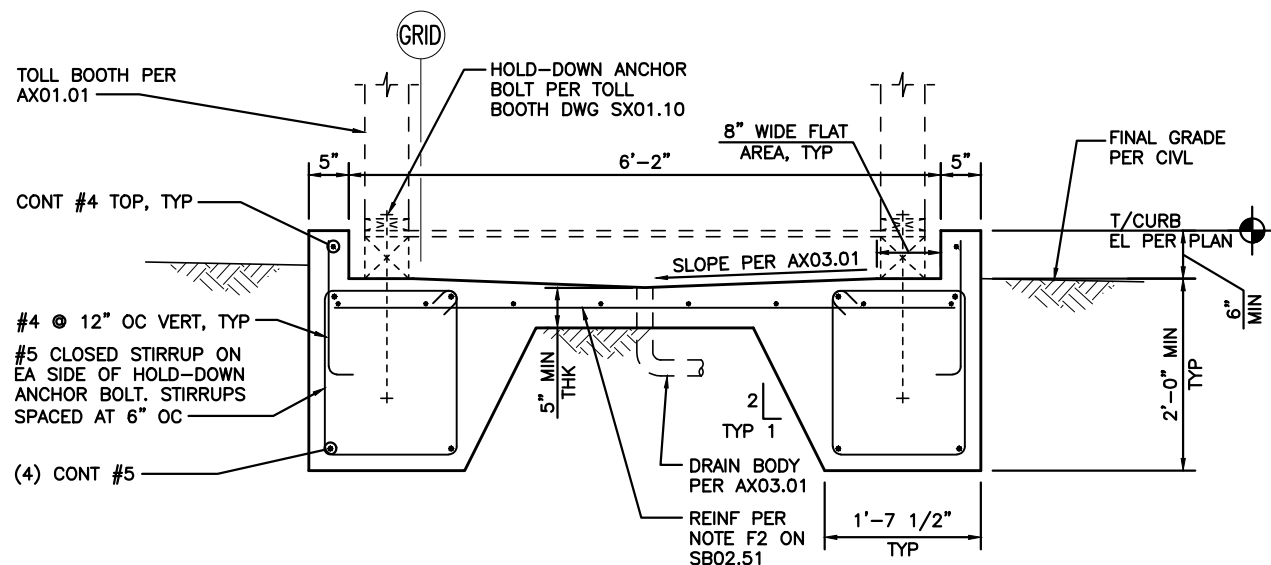
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ENTERED BY:	B. RONIA	08/23/2018			
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DIR TERM ENGR:	N. MCINTOSH				
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		REVISION	DATE	BY	

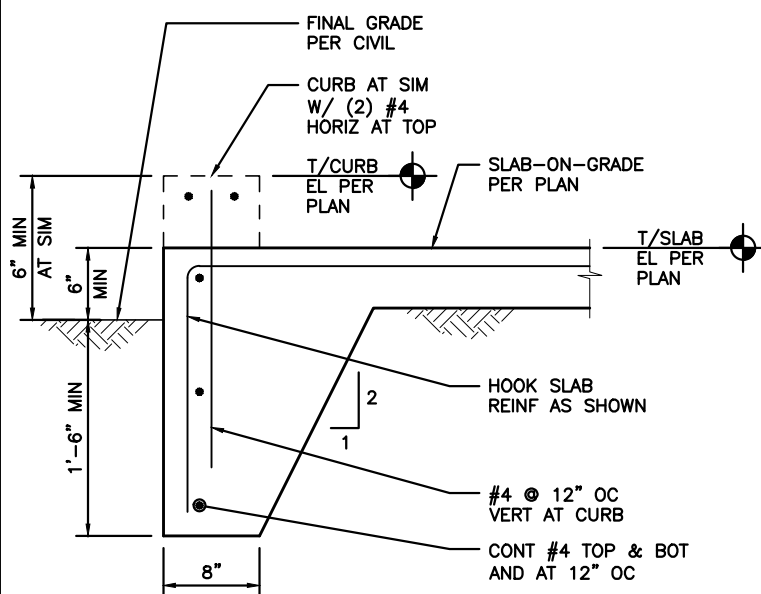


SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	SB05.50
CONCRETE DETAILS - TOLL PLAZA	SHEET 1152 OF 1521 SHEETS

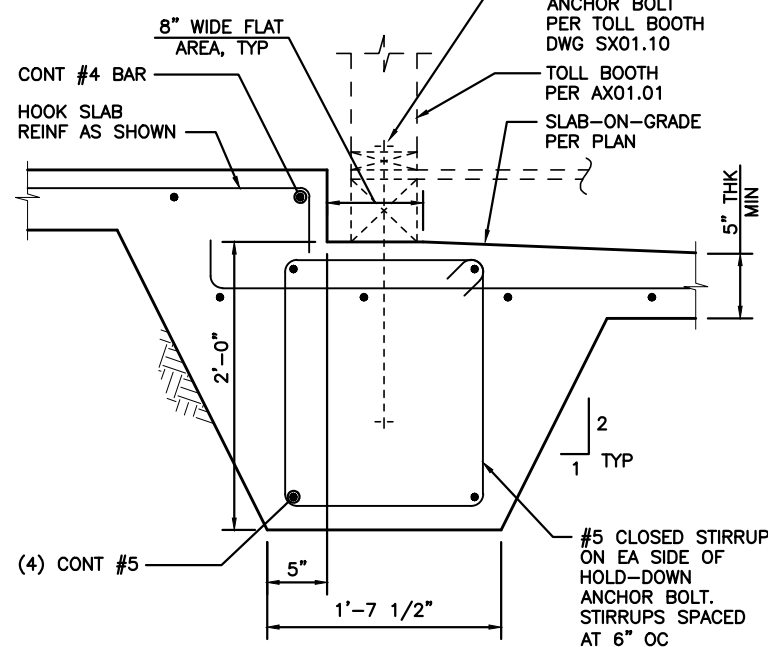
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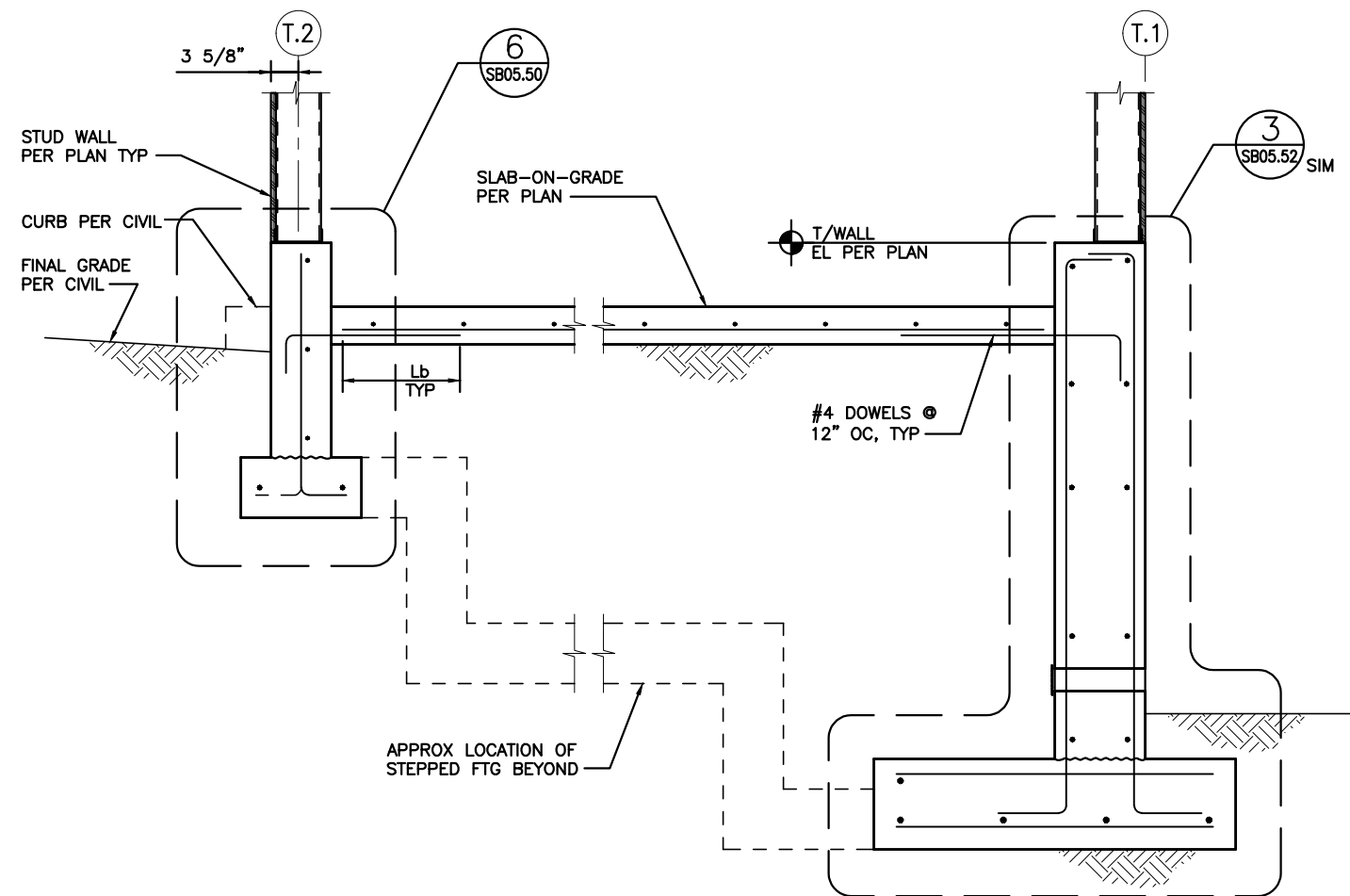
1 TOLL PLAZA – FOUNDATION SECTION



5 TOLL PLAZA – THICKENED SLAB EDGE



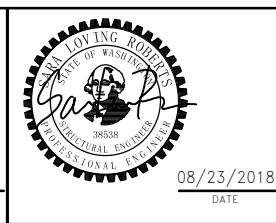
6 TOLL PLAZA – FOUNDATION SECTION



7 TOLL PLAZA – FOUNDATION SECTION

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		REVISION	DATE	BY	

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

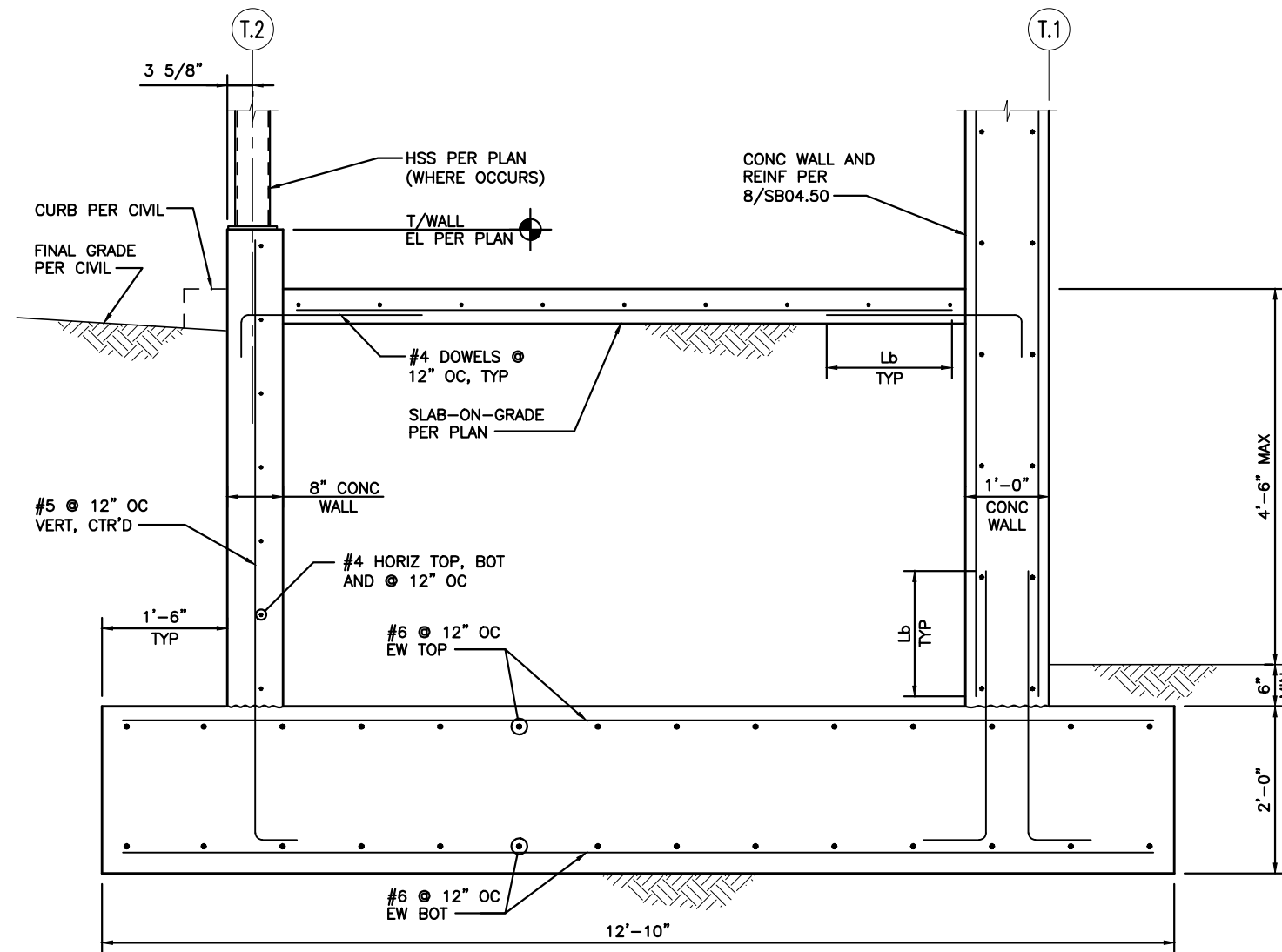


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MUKILTEO FERRY TERMINAL (PHASE 2)	
FERRY TERMINAL CONSTRUCTION	
CONCRETE DETAILS – TOLL PLAZA	

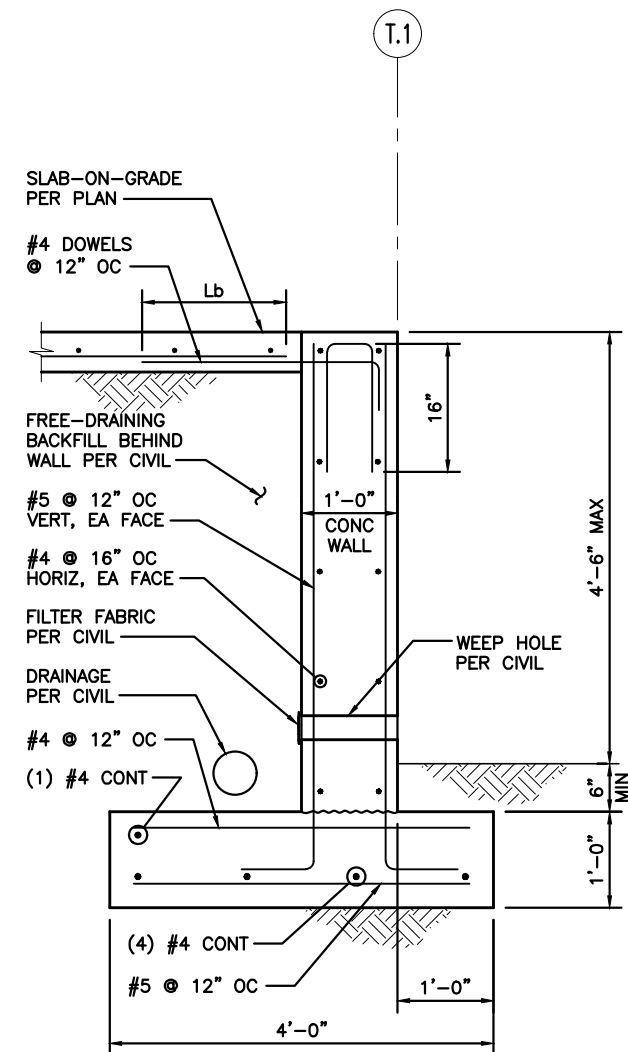
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1 TOLL PLAZA - FOUNDATION SECTION



3 TOLL PLAZA - FDN SECTION

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

DATE



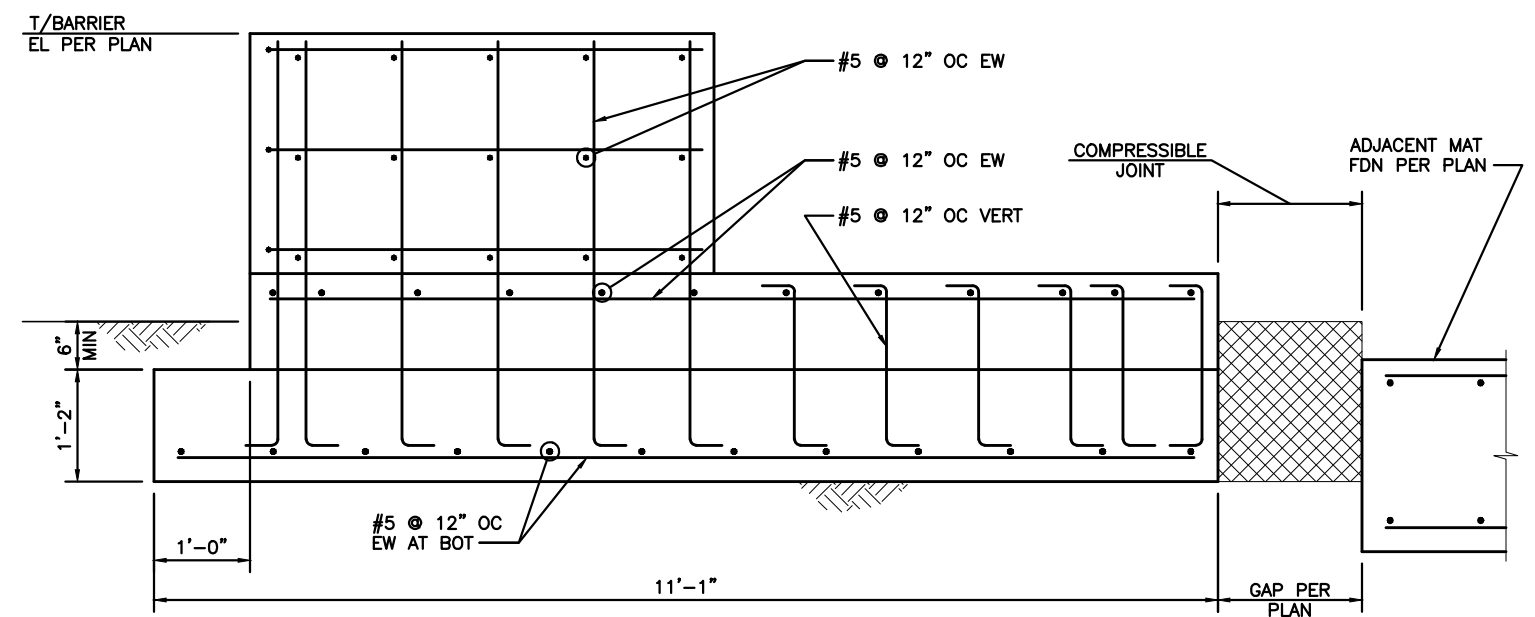
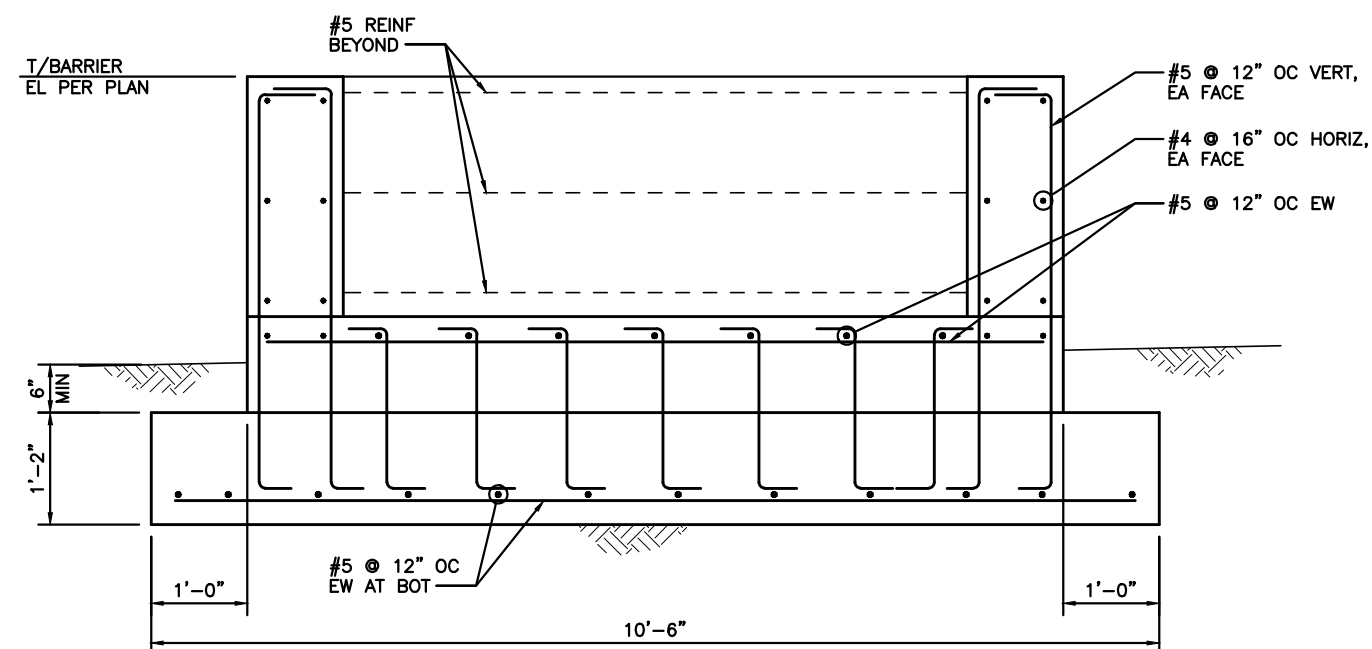
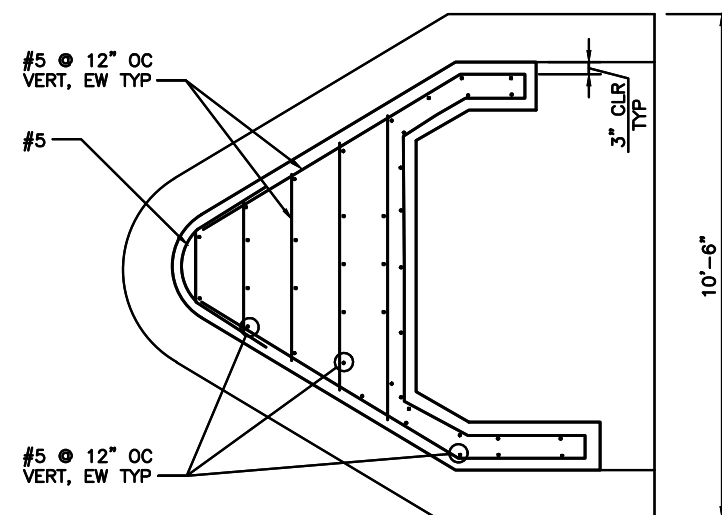
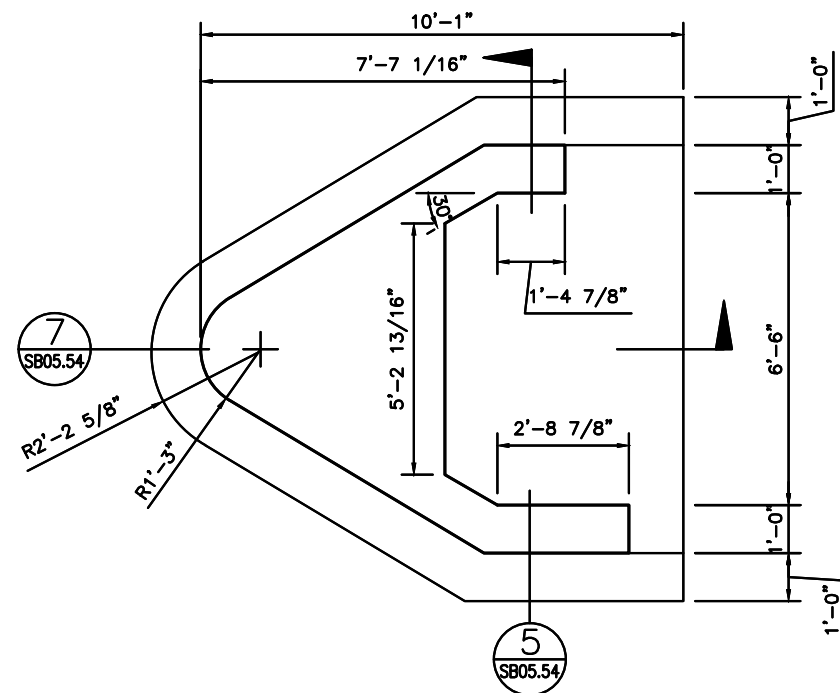
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DATE



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MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
CONCRETE DETAILS - TOLL PLAZA

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DIR TERM ENGR:		N. MCINTOSH										18W121
ASST SECRETARY:		A. SCARTON				REVISION		DATE	BY	CONTRACT NO.		
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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)

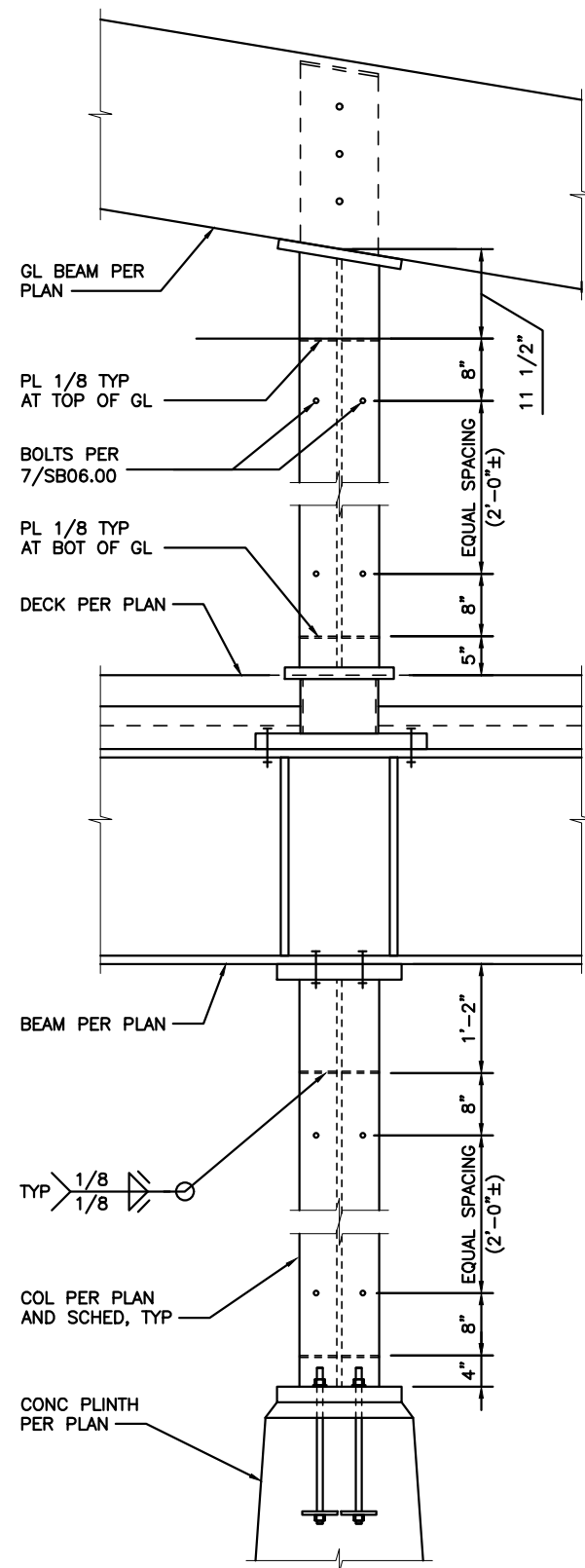
FERRY TERMINAL CONSTRUCTION

CONCRETE DETAILS – TOLL PLAZA

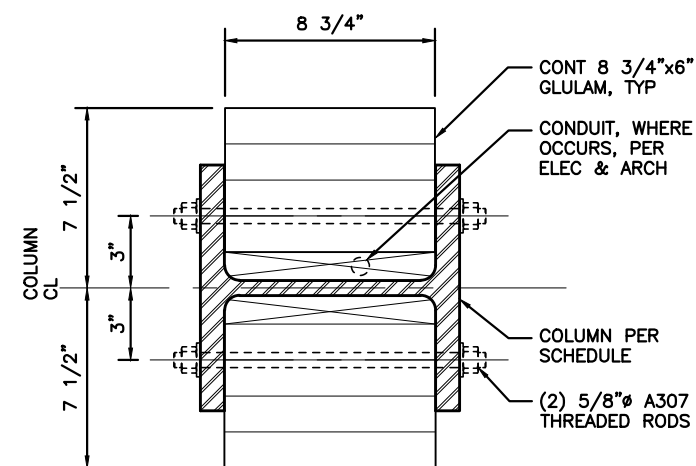
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Plotted: 9/21/18 at 2:41pm By: DioneL



6 TYPICAL COLUMN ELEVATION



NOTES:
1. SEE 6/SB06.00 FOR TYPICAL COLUMN ELEVATION.

7 TYPICAL COLUMN SECTION

TERMINAL BUILDING COLUMN SCHEDULE							
LEVEL	COLUMN TYPE						
	C1	C2	C3	C4	C5	C6	C7
ROOF HIGH							
ROOF LOW							
LEVEL 2	W10x49 BP2	W10x49 BP2	W10x49 BP2	W10x49 BP2	W10x88 BP1	W10x88 BP1	W10x88 BP2
LEVEL 1	W10x88 BP3	W10x88 BP3					W10x88 BP3

NOTES:
1. PROVIDE COLUMN PLINTH PER 4/SB05.02.
2. BP1 INDICATES BASE PLATE PER 8/SB06.02.
BP2 INDICATES BASE PLATE PER 7/SB06.02.
BP3 INDICATES BASE PLATE PER 6/SB06.02.
3. SEE 7/SB06.00 FOR TYPICAL COLUMN SECTION.
4. SEE 6/SB06.00 FOR TYPICAL COLUMN ELEVATION.

8 TERMINAL BUILDING COLUMN SCHEDULE

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DIR TERM ENGR:	N. MCINTOSH				18W121
ASST SECRETARY:	A. SCARTON				CONTRACT NO.
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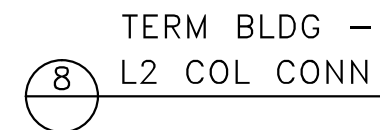
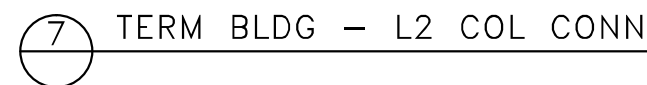
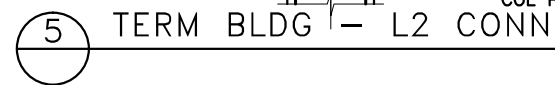


08/23/2018
DATE



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
STEEL COLUMN SCHEDULE/DETAILS

SB06.00
SHEET
1157
OF
1521
SHEETS



kpff

11/01/2018
DATE

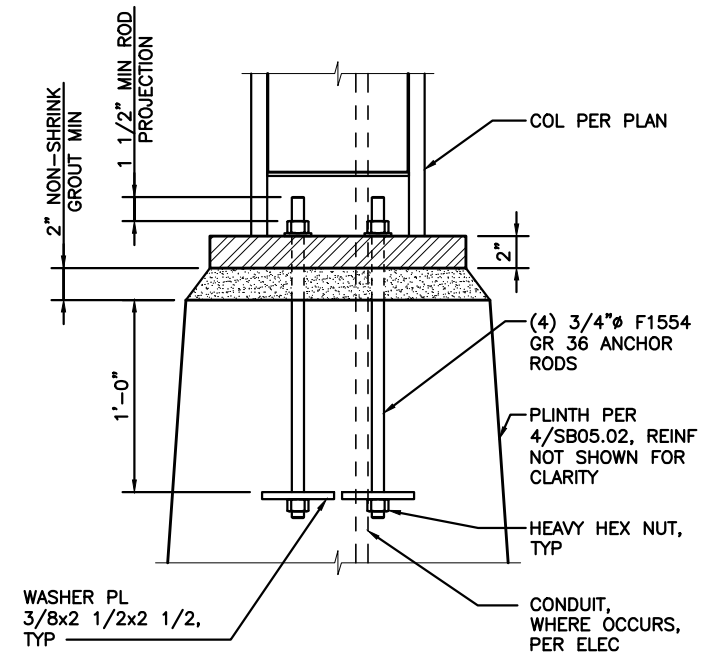
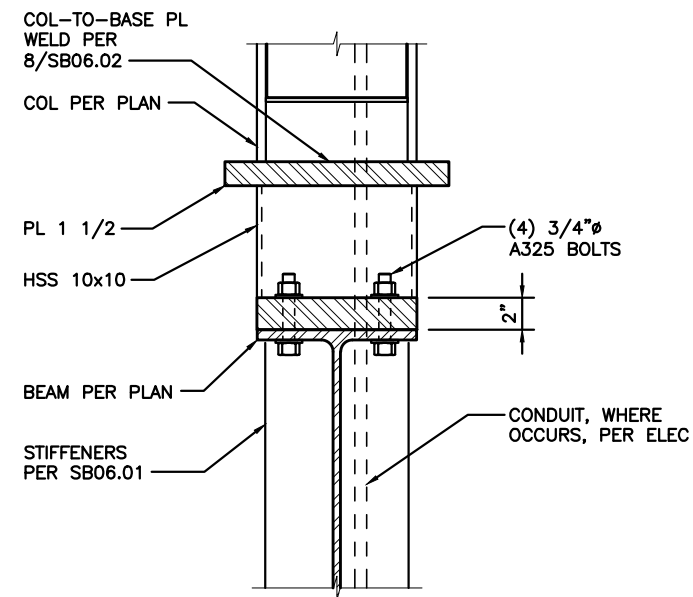
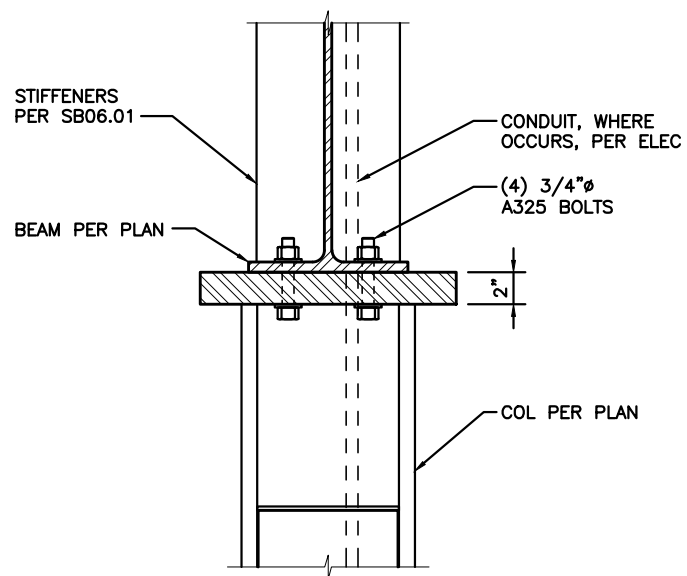
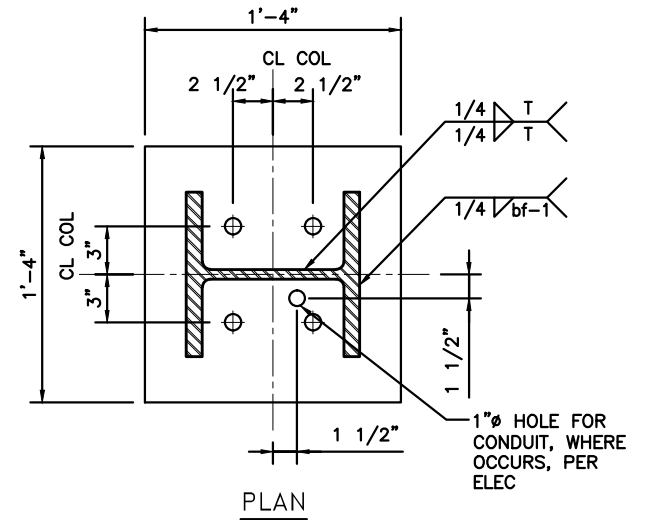
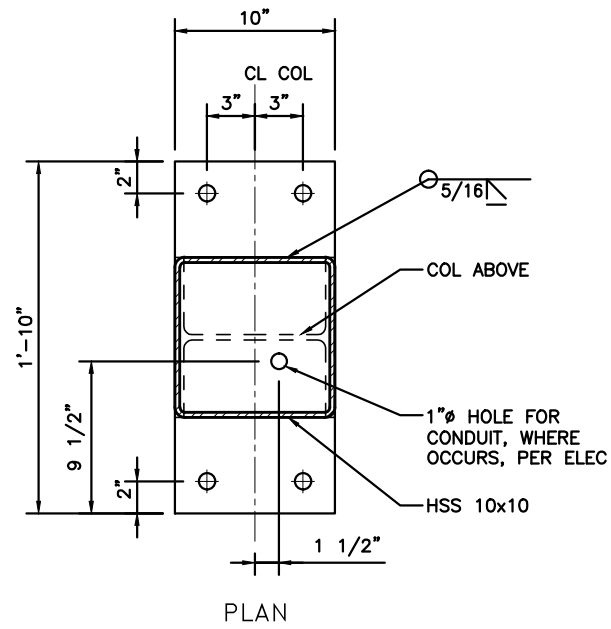
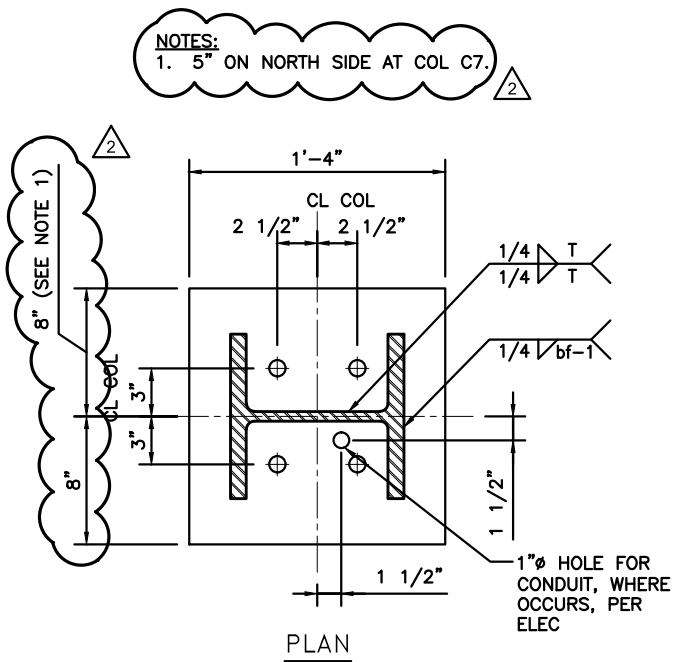


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WASHINGTON STATE FERRIES

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

STEEL COLUMN DETAILS

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158
OF
521
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6 BP3 - COLUMN BASE PLATE

7 BP2 - COLUMN BASE PLATE

8 BP1 - COLUMN BASE PLATE



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MAR PROJ ENGR	C. TORRES							18W121	
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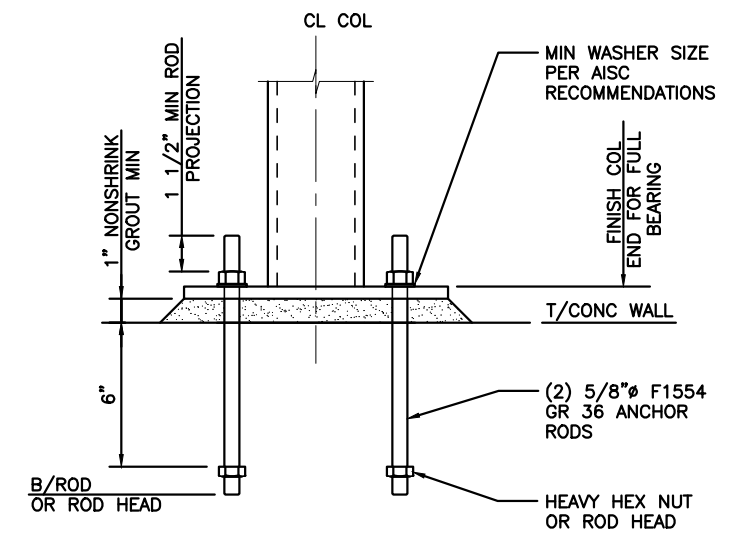
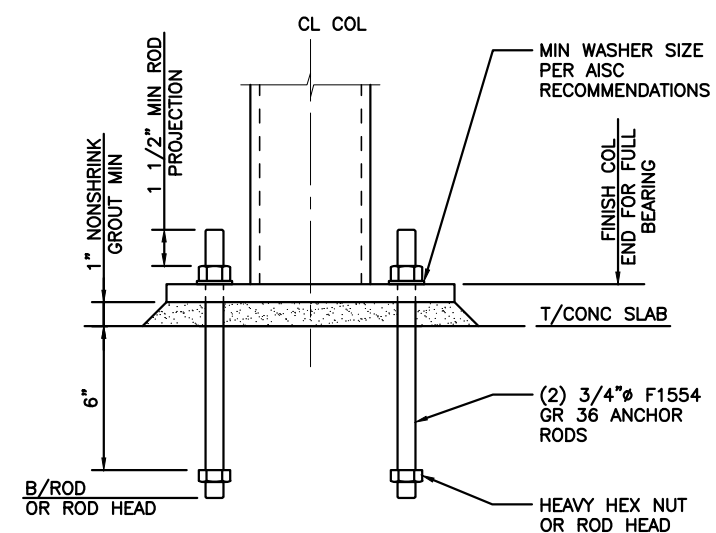
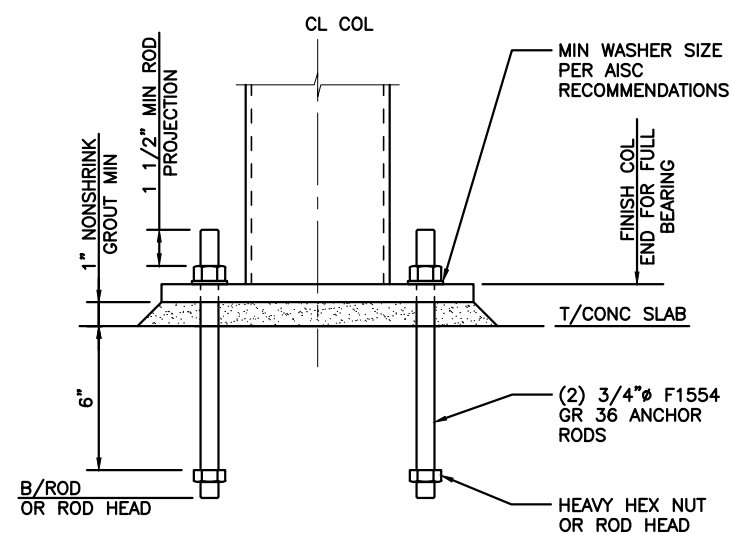
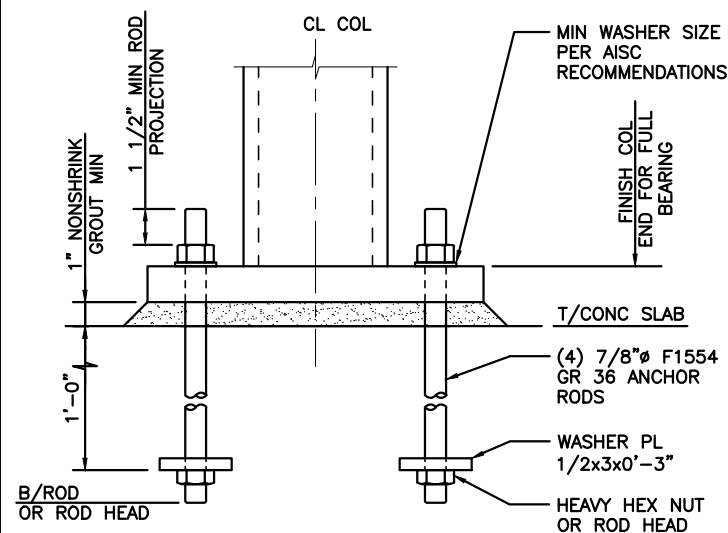
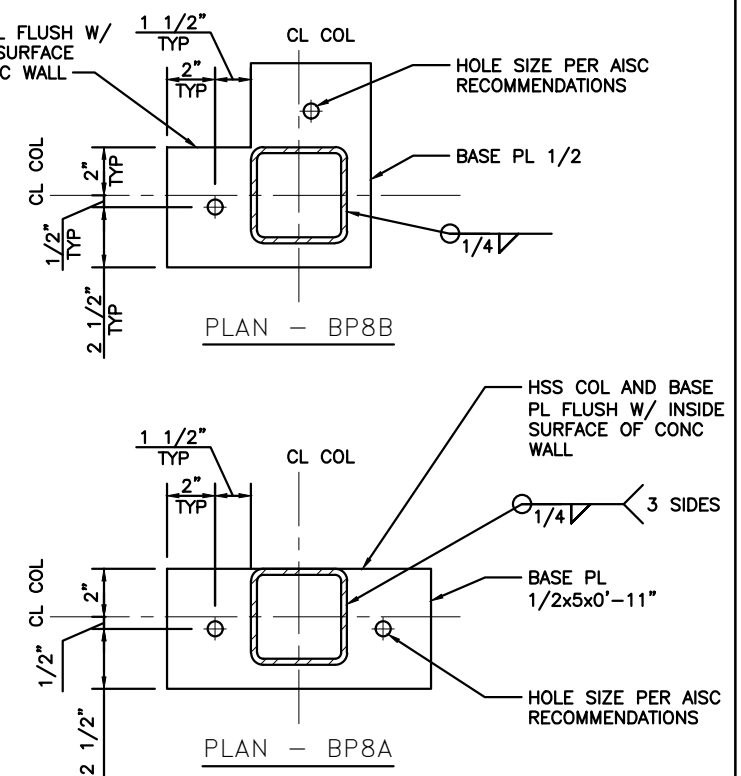
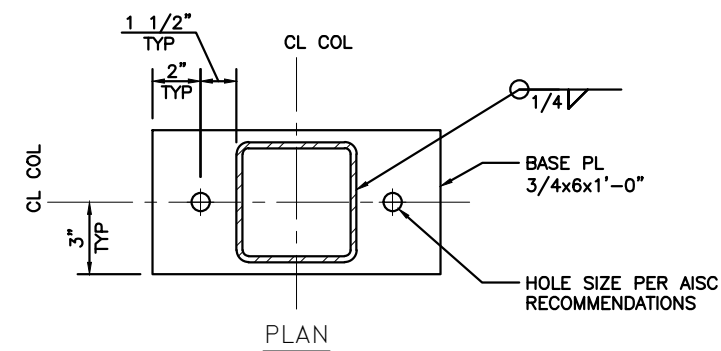
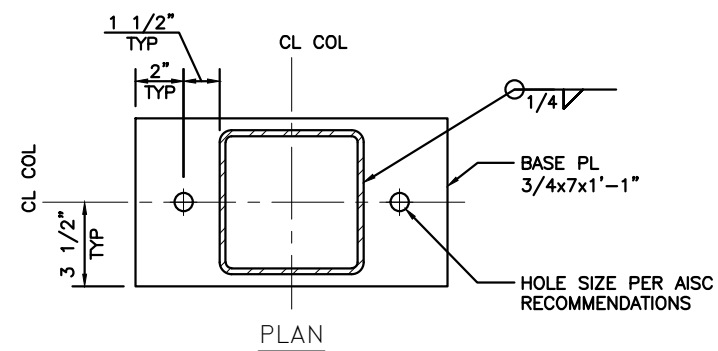
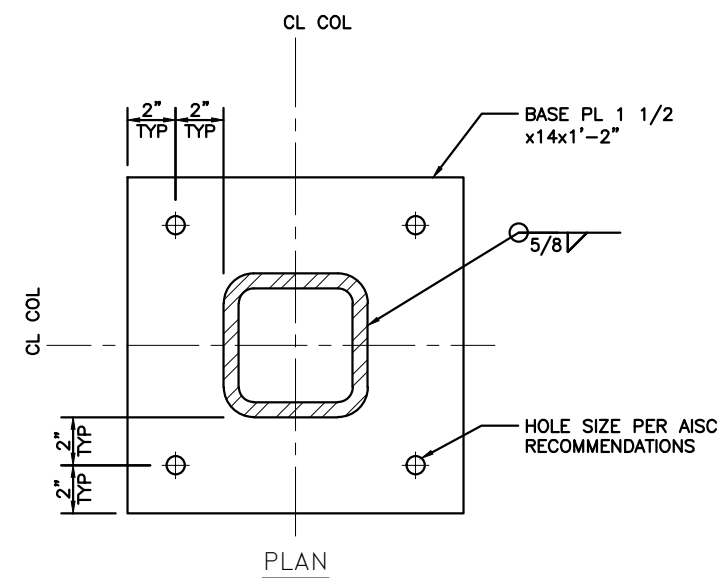


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

STEEL COLUMN BASE PLATE DETAILS

SB06.02

SHEET
1159
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1521
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FILE NAME: 14W121SB06_03.dwg									
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ENTERED BY: B. RONIA			08/23/2018				REGION NO. STATE		
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MAR PROJ ENGR C. TORRES							JOB NUMBER		
DIR TERM ENGR: N. MCINTOSH							18W121		
ASST SECRETARY: A. SCARTON					REVISION		DATE	BY	CONTRACT NO.
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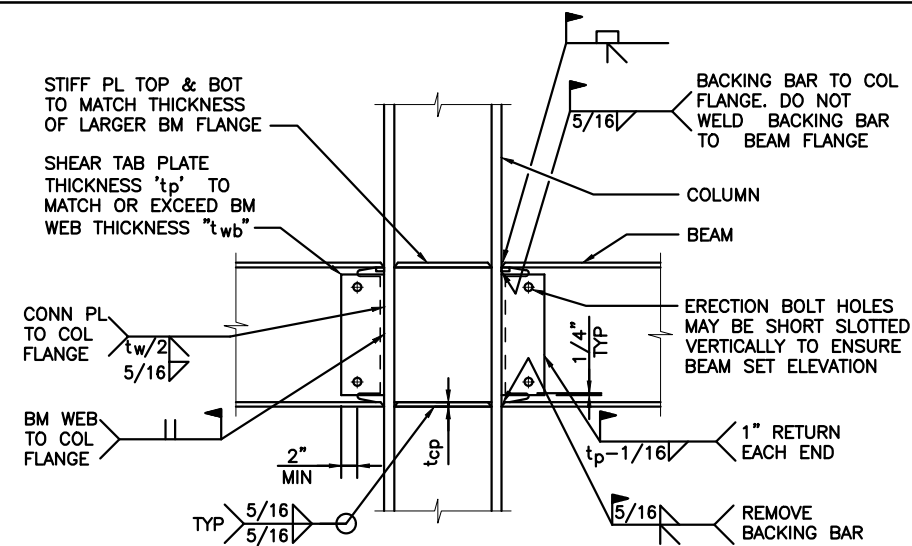


Washington State
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SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

STEEL COLUMN BASE PLATE DETAILS

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DOUBLE LINE CONNECTION SCHEDULE "B"			
CONNECTION TYPE [X,Y]	BOLT SIZE	PLATE THICKNESS	WELD SIZE "W"
[3,Y]	7/8"Ø	3/8"	1/4"
[4,Y]	7/8"Ø	7/16"	5/16"
[5,Y]	7/8"Ø	1/2"	5/16"
[6,Y]	7/8"Ø	1/2"	5/16"
[7,Y]	7/8"Ø	9/16"	3/8"
[8,Y]	7/8"Ø	9/16"	3/8"
[9,Y]	7/8"Ø	5/8"	7/16"

NOTES:

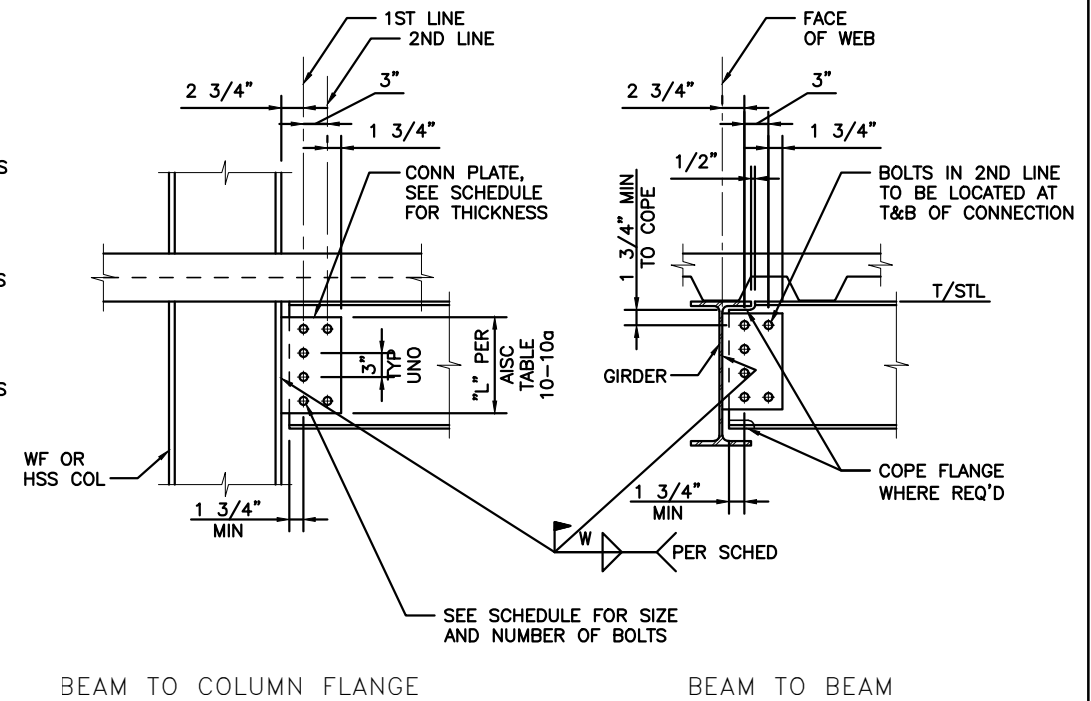
1. X = NUMBER OF BOLTS IN 1ST LINE.
- Y = NUMBER OF BOLTS IN 2ND LINE.

EXAMPLE BOLT PATTERNS

[5,2] (2) BOLTS 2ND LINE

[5,4] (4) BOLTS 2ND LINE

[7,6] (6) BOLTS 2ND LINE



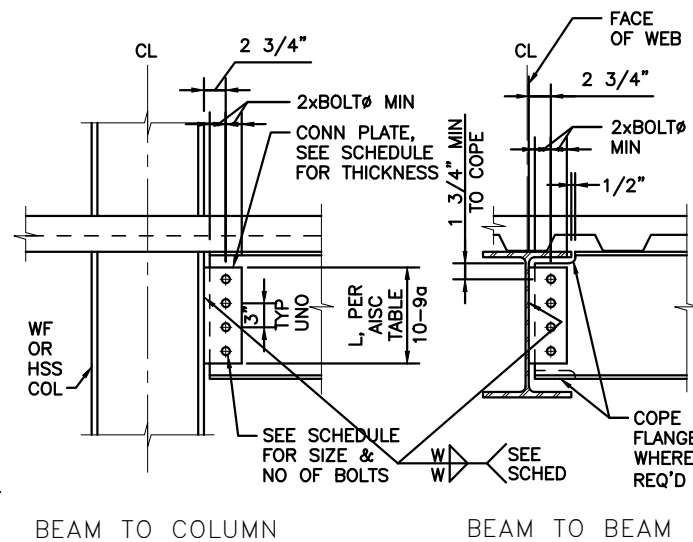
1 TYPICAL CANTILEVER CONNECTION

3 TYPICAL DOUBLE LINE BOLTED BEAM CONNECTION

STANDARD BOLTED CONN SCHEDULE			
BEAM SIZE	# & SIZE OF BOLTS REQ'D	PLATE THICK	WELD SIZE (W)
W6	(2) 3/4"Ø @ 2" GA	1/4"	3/16"
W8, C8	(2) 7/8"Ø	1/4"	3/16"
W10	(2) 7/8"Ø	1/4"	3/16"
W12	(3) 7/8"Ø	1/4"	3/16"
W14	(3) 7/8"Ø	1/4"	3/16"
W16	(4) 7/8"Ø	1/4"	3/16"
W18	(4) 7/8"Ø	5/16"	1/4"
W21	(5) 7/8"Ø	5/16"	1/4"
W24	(6) 7/8"Ø	5/16"	1/4"
W27	(7) 7/8"Ø	3/8"	1/4"

NOTES:

1. SHORT SLOTTED HOLES MAY BE USED AT ALL COLUMN CONNECTIONS AS AN OPTION.
2. FOR BEAM TO COLUMN WEB CONNECTION AT W14 AND SMALLER COLUMNS, USE EXTENDED PLATE DETAIL.

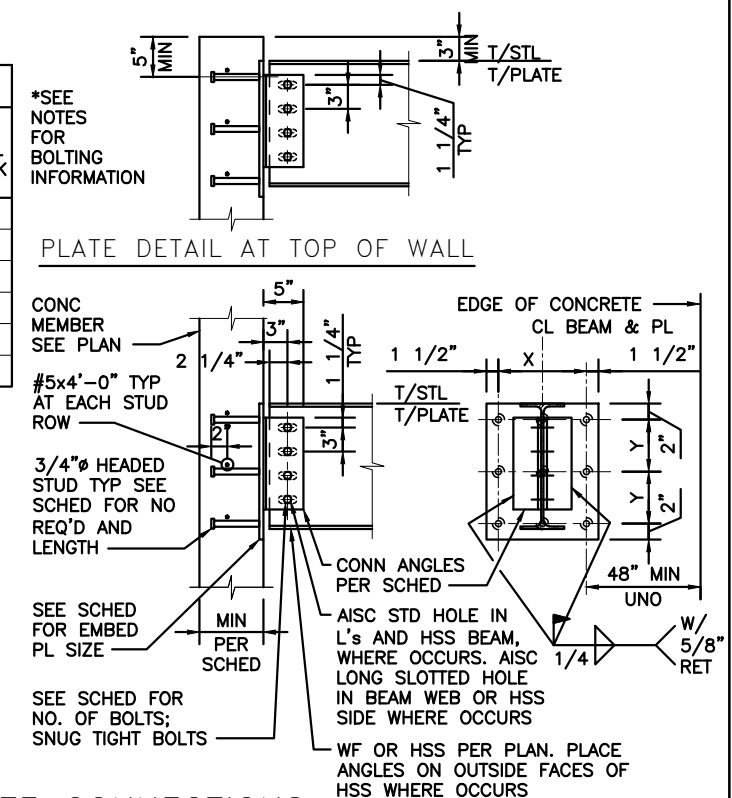


5 TYPICAL BOLTED BEAM CONNECTIONS

EMBEDDED PLATE CONNECTION SCHEDULE									
TYPE	# OF BOLTS REQ'D	PLATE SIZE	# OF HORIZ ROWS OF STUDS	# OF STUDS PER ROW	STUD SPACING		MIN STUD LENGTH	DOUBLE ANGLE SIZE	MIN. WALL THICK
2E	2	PL 5/8x10x0'-11"	2	2	7"	7"	5"	L5x3 1/2x5/16	8"
2E-W	2	PL 5/8x12x0'-11"	2	2	7"	7"	5"	L5x3 1/2x5/16	8"
3E	3	PL 5/8x11x1'-2"	3	2	8"	5"	5"	L5x3 1/2x5/16	8"
4E	4	PL 5/8x14x1'-5"	3	2	11"	6 1/2"	6"	L5x3 1/2x5/16	9"
5E	5	PL 3/4x15x1'-8 1/2"	4	2	12"	5 1/2"	6"	L5x3 1/2x5/16	9"
6E	6	PL 3/4x16x2'-2"	5	2	13"	5"	6"	L5x3 1/2x5/16	9"

NOTES:

1. BOLTS TO BE SNUG TIGHT. DO NOT TIGHTEN FULLY.
2. BOLT DIAMETERS TO BE SAME AS SHOWN ON STANDARD BOLTED BEAM CONNECTION.



7 TYPICAL EMBEDDED PLATE CONNECTIONS

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DIR TERM ENGR:	N. MCINTOSH								
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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DATE	
08/23/2018	
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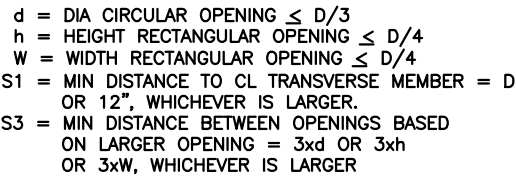
SR 525	SB06.04
MUKILTEO FERRY TERMINAL (PHASE 2)	
FERRY TERMINAL CONSTRUCTION	
TYPICAL STEEL DETAILS	
	SHEET
	1161
	OF
	1521
	SHEETS



2. PLATE THICKNESS "tp" DEFINED BY REQ'D TOTAL BUILT-UP BM FLANGE THICKNESS, (TO THE NEAREST 1/16 INCH) BUT NOT LESS THAN 1/4".



1. THIS DETAIL MAY BE USED FOR SHOP OR FIELD CUT OPENINGS WITHOUT CONSULTING THE STRUCTURAL ENGINEER. ANY OPENING OUTSIDE THESE CONSTRAINTS MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
2. ALL FIELD CUT OPENINGS MUST MEET THERMAL CUTTING REQUIREMENTS IN CHAPTER M OF AISC 360.

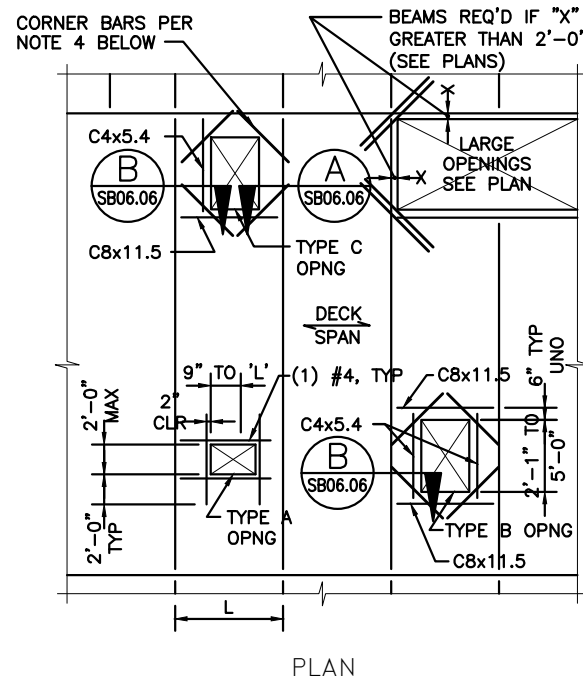


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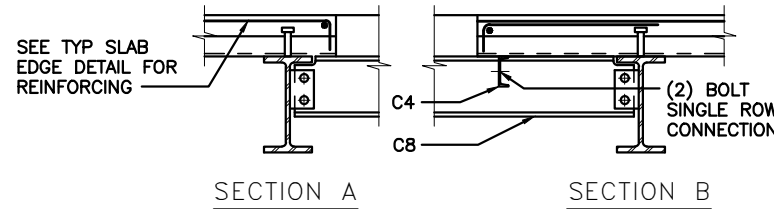


1. DETAIL MAY BE INVERTED WHERE TOP OF GIRDER IS LOWER THAN BEAM.

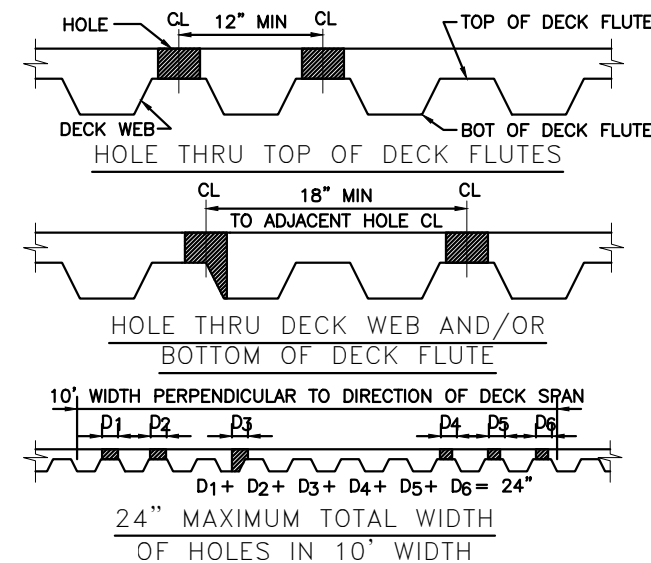




1 TYPICAL SLAB OPENINGS



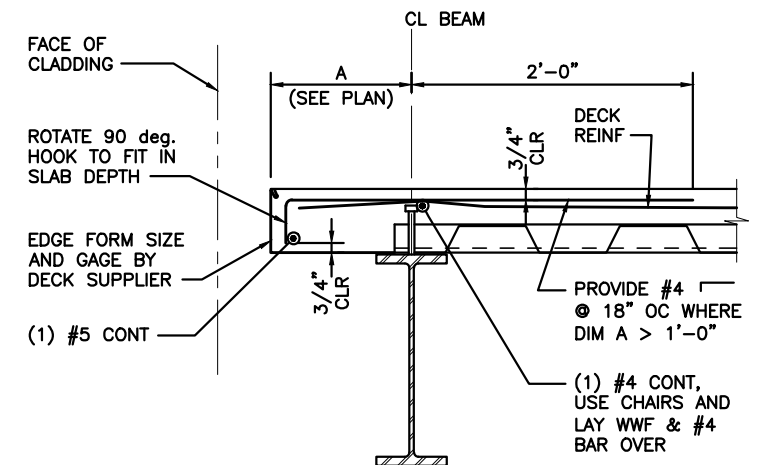
- NOTES:**
1. OPENINGS SMALLER THAN 9" DO NOT NEED REINFORCING.
 2. OPENINGS BETWEEN 9" AND 2'-0", WITHOUT EDGE FRAMING, SHALL HAVE REINFORCING PER OPENING TYPE A.
 3. BARS PARALLEL TO DECK FLUTES TO BE IN NEAREST LOWER FLUTE, 3/4" CLEAR FROM BOTTOM. BARS PERPENDICULAR TO FLUTES TO BE 3/4" CLEAR ABOVE DECKING.
 4. OPENINGS LARGER THAN 2'-0" WILL REQUIRE EDGE FRAMING PER OPENING TYPES B OR C.
 5. CORNER BARS TO BE PROVIDED AT ALL INSIDE CORNERS AS FOLLOWS:
(1) #4x3'-0" FOR 6'-0" AND SMALLER OPENINGS
(2) #4x4'-0" FOR OPENINGS LARGER THAN 6'-0"
 6. BLOCK OUT UNSUPPORTED OPENINGS PRIOR TO PLACING CONCRETE. REMOVE BLOCKOUT AND CUT DECK AFTER CONCRETE HAS CURED.
 7. CONTRACTOR TO COORDINATE OPENING SIZE AND LOCATION WITH ARCHITECTURAL DRAWINGS AND MECHANICAL AND ELECTRICAL CONTRACTORS.
 8. EDGE FRAMING FOR OPENINGS LARGER THAN 5'-0" TO BE AS SHOWN ON FRAMING PLANS.



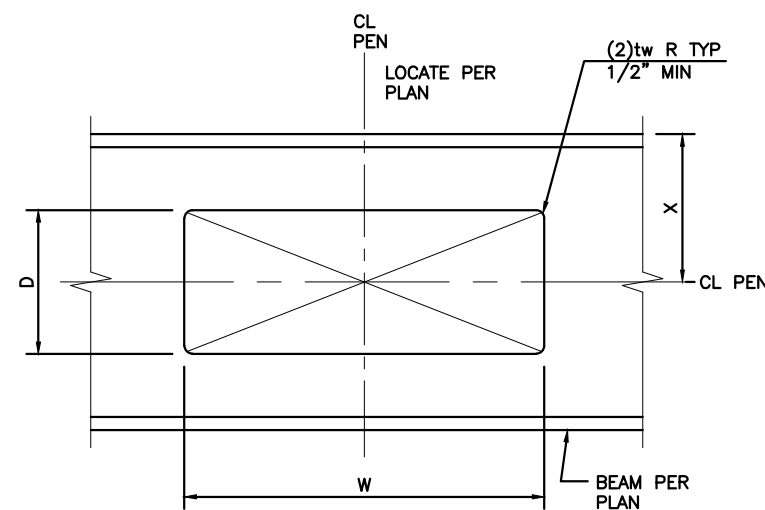
- NOTES:**
1. NO HOLE SHALL CUT THROUGH MORE THAN ONE DECK WEB.
 2. WHERE HOLES ARE CUT AFTER CONCRETE IS PLACED, NO REBAR OTHER THAN WELDED WIRE FABRIC SHALL BE CUT.

CRITERIA FOR CUTTING ROUND HOLES < 6" Ø IN SLAB ON METAL DECK W/O DECK REINFORCEMENT

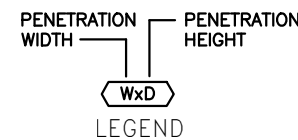
3 HOLES IN SLAB ON DECK



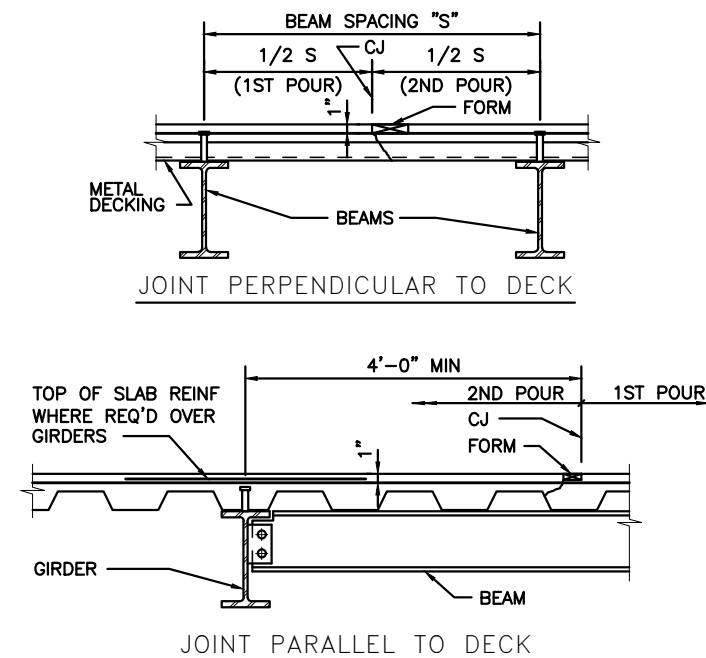
4 TYPICAL SLAB EDGE AT PERIMETER



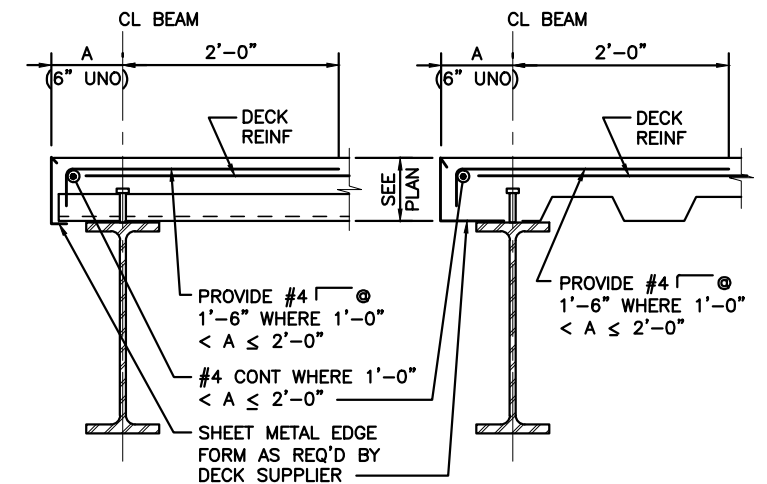
- NOTES:**
1. DIMENSION "X" = 1/2 BEAM DEPTH UNLESS NOTED OTHERWISE.
 2. SEE 5/SB06.05 FOR PENETRATIONS NOT DESIGNATED ON PLAN.
 3. REFER TO 5/SB06.05 FOR PENETRATION SPACING REQUIREMENTS, UNLESS NOTED OTHERWISE ON PLAN.



5 BEAM PENETRATION DETAIL



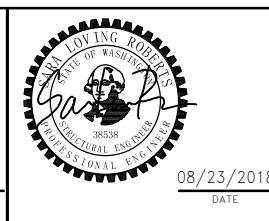
7 SLAB CONSTRUCTION JOINT



8 TYPICAL SLAB EDGE AT OPENING

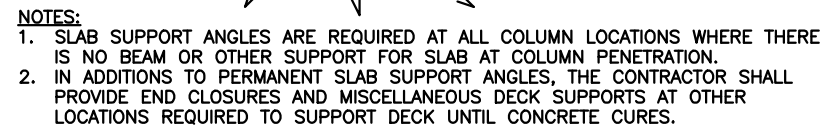
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DIR TERM ENGR:	N. MCINTOSH				
ASST SECRETARY:	A. SCARTON				
		REVISION	DATE	BY	

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REGION NO. STATE	
10 WASH	
JOB NUMBER	
18W121	
CONTRACT NO.	
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SR 525	SB06.06
MUKILTEO FERRY TERMINAL (PHASE 2)	SHEET
FERRY TERMINAL CONSTRUCTION	1163
	OF
TYPICAL STEEL DETAILS	1521
	SHEETS

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ANGLE BRACE
PER SCHEDULE

PL 3/8x6x0'-6"


BEAM PER
PLAN, TYP

1/4" 2" 1/4" 2"

TYP

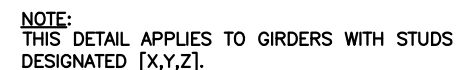
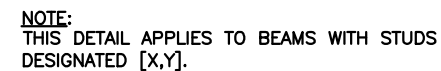
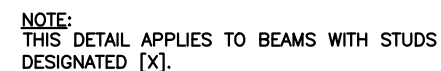
1/4" 2" 1/4" 2"

NOTES:

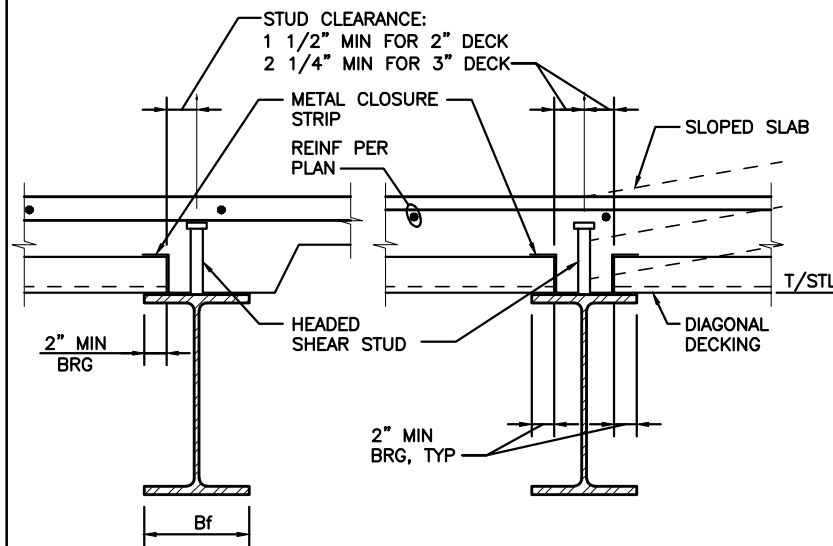
1. LOCATE BRACING AT MIDSPAN OF GIRDERS, UNLESS NOTED OTHERWISE.
2.  DESIGNATION ON PLAN, ARROW POINTS TO BEAM WITH BOTTOM FLANGE BRACE CONNECTION.
3. BRACING TO BE INSTALLED AFTER CONCRETE ON STEEL DECK HAS BEEN POURED, AND BEFORE ROOF FRAMING HAS BEEN ERECTED.

NOTES:

1. HEADED SHEAR STUDS TO BE 3/4"x4 1/2" LONG AFTER WELDING.
2. THE MINIMUM NUMBER OF STUDS REQUIRED IS SHOWN AS [X] ON FRAMING PLANS. NO STUDS ARE REQUIRED WHERE [O] APPEARS OR WHERE NO DESIGNATION IS GIVEN. ADDITIONAL STUDS MAY BE REQUIRED TO MEET THE ABOVE MAXIMUM SPACING REQUIREMENTS.
3. IF TWO STUDS ARE REQUIRED IN ONE FLUTE THE TRANSVERSE SPACING SHALL BE 3" MINIMUM.

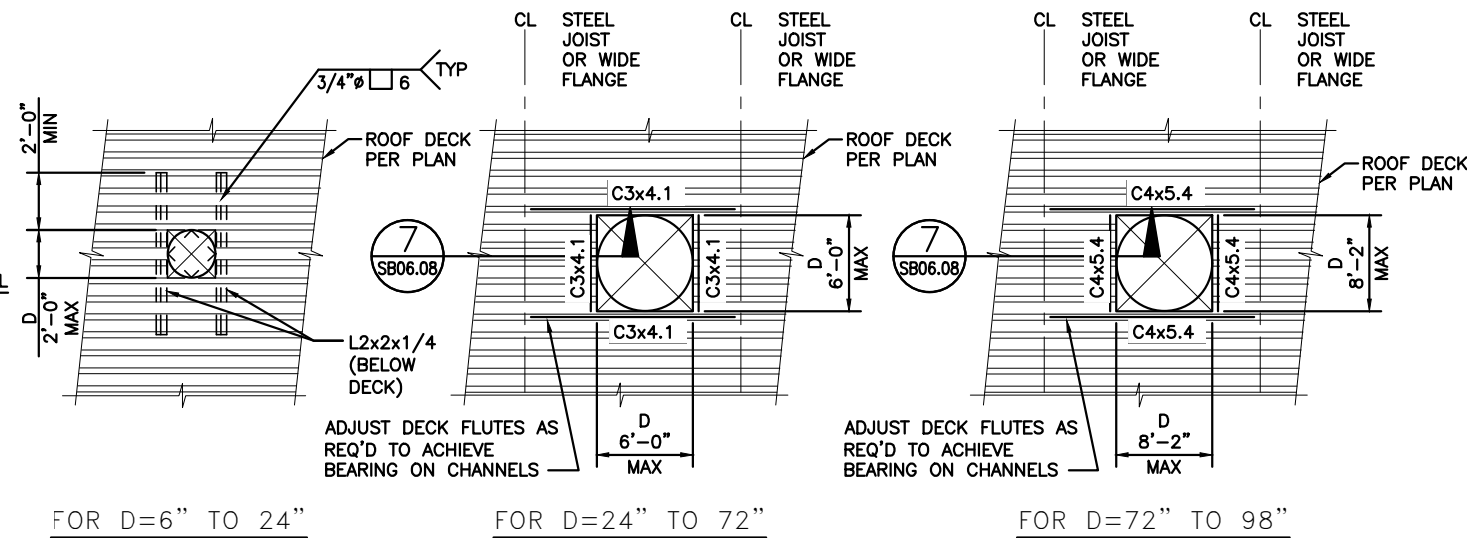


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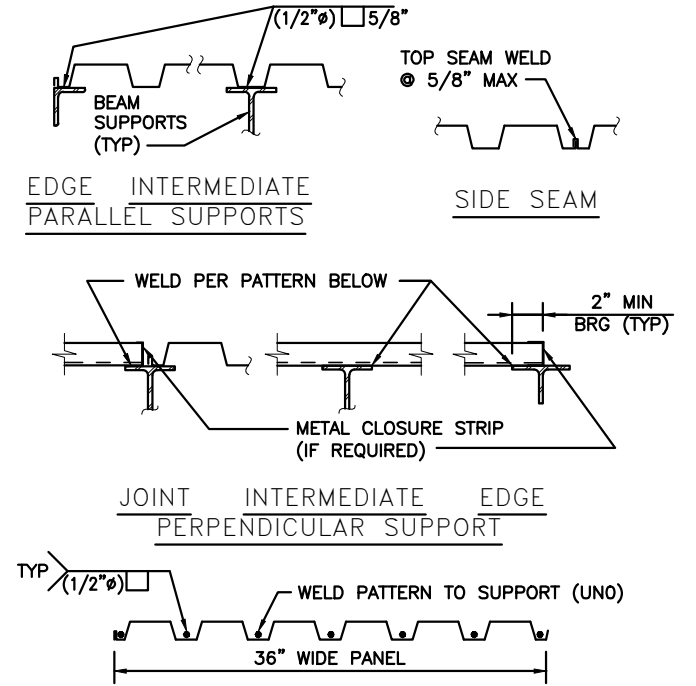
- NOTE:**
1. FOR CONTINUOUS METAL CLOSURE STRIPS, MINIMUM BEAM WIDTH $b_f = 7"$ FOR 2" DECK AND 8 1/2" FOR 3" DECK. FOR NARROWER BEAMS USE INDIVIDUAL CLOSURES AT EACH HIGH DECK FLUTE. 2" MINIMUM BEARING CONTROLS.

1 TYPICAL DECK DISCONTINUITIES

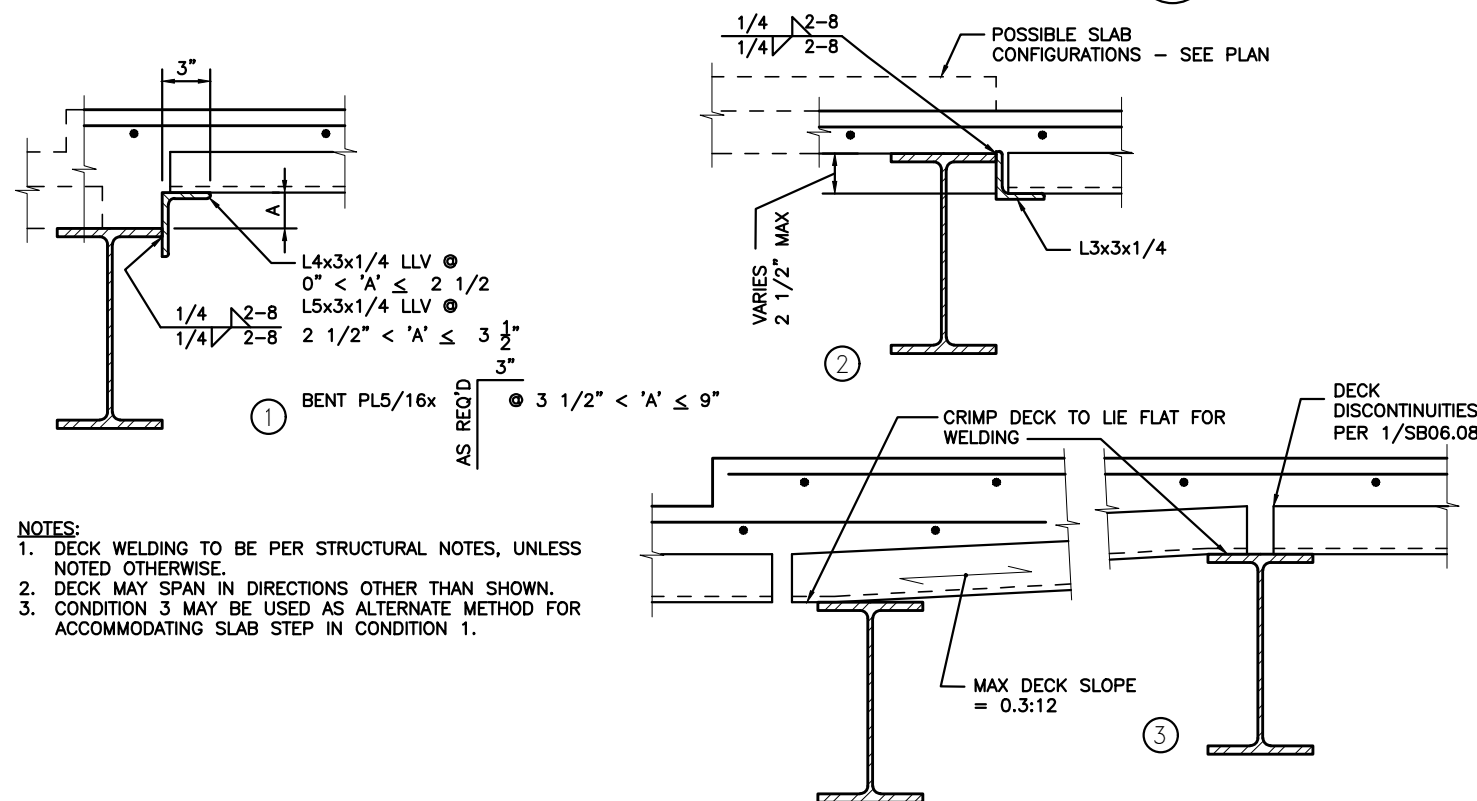


- NOTES:**
1. HOLES LESS THAN 6" ϕ AND CUTTING NO MORE THAN 1 WEB REQUIRE NO REINFORCEMENT.
 2. ALL METAL DECK OPENINGS SHOWN ABOVE APPLY ONLY TO DUCTWORK, PIPING, ROOF HATCHES AND SMALL AIR SHAFTS.
 3. THESE REINFORCED OPENINGS ARE NOT INTENDED TO SUPPORT MECHANICAL EQUIPMENT.

2 TYPICAL ROOF OPENINGS - PLAN

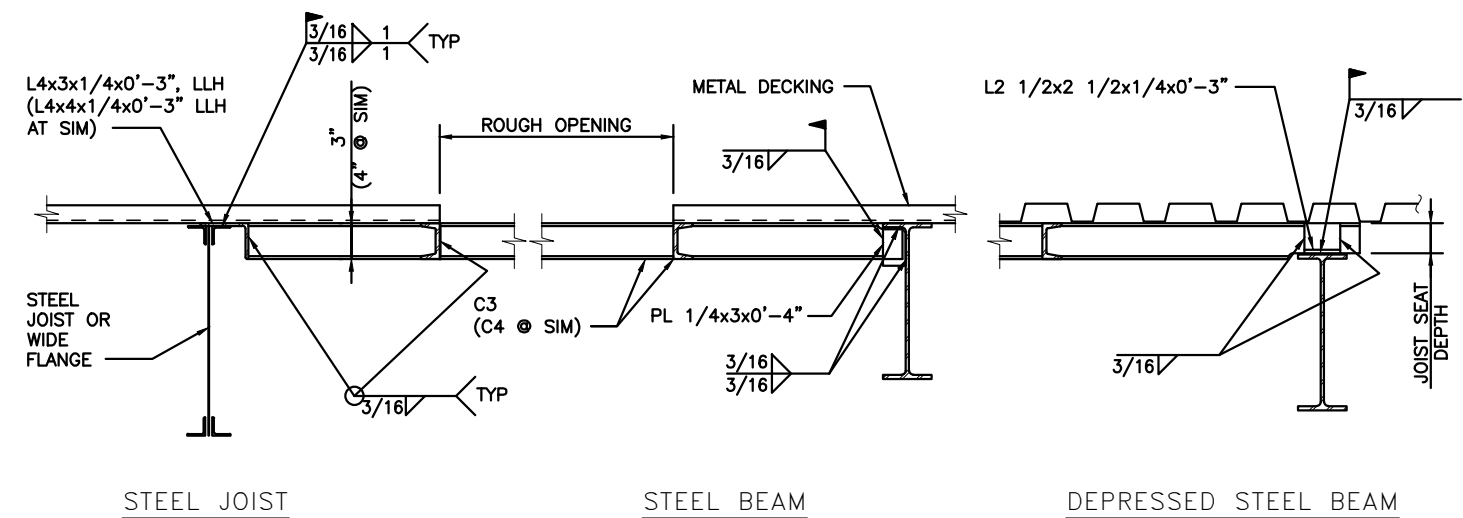


4 TYPICAL ROOF DECK WELDING



- NOTES:**
1. DECK WELDING TO BE PER STRUCTURAL NOTES, UNLESS NOTED OTHERWISE.
 2. DECK MAY SPAN IN DIRECTIONS OTHER THAN SHOWN.
 3. CONDITION 3 MAY BE USED AS ALTERNATE METHOD FOR ACCOMMODATING SLAB STEP IN CONDITION 1.

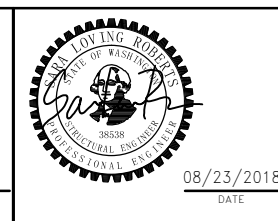
5 TYPICAL DECK SUPPORT CONDITIONS



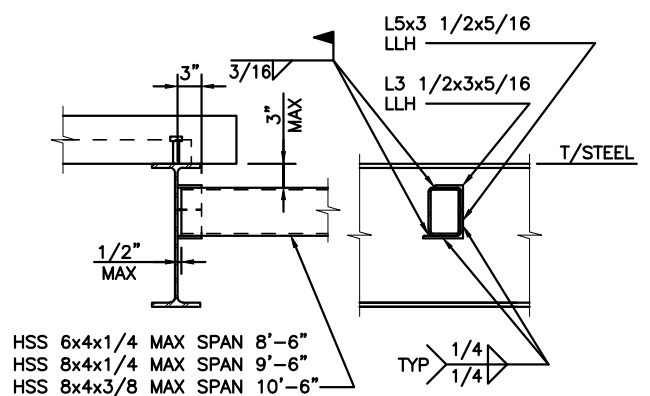
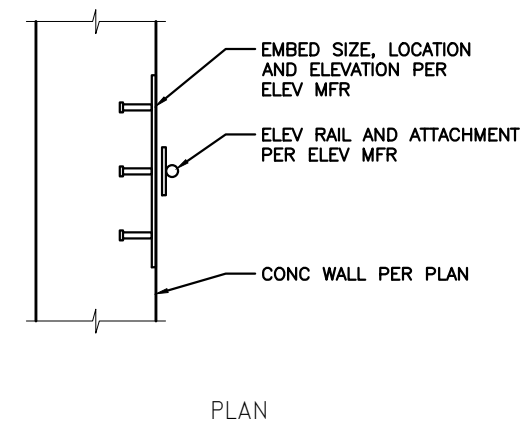
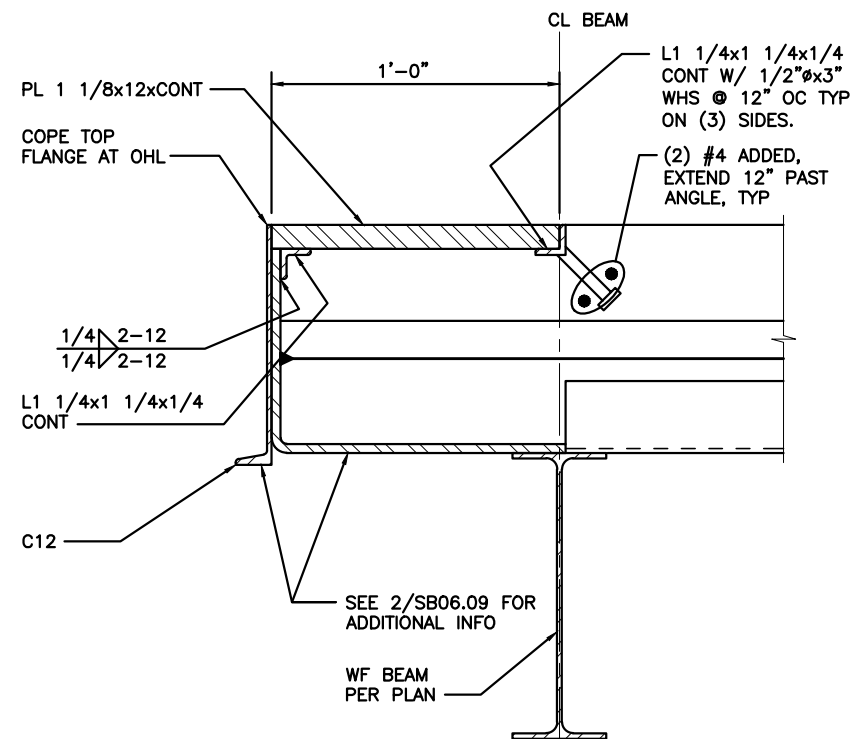
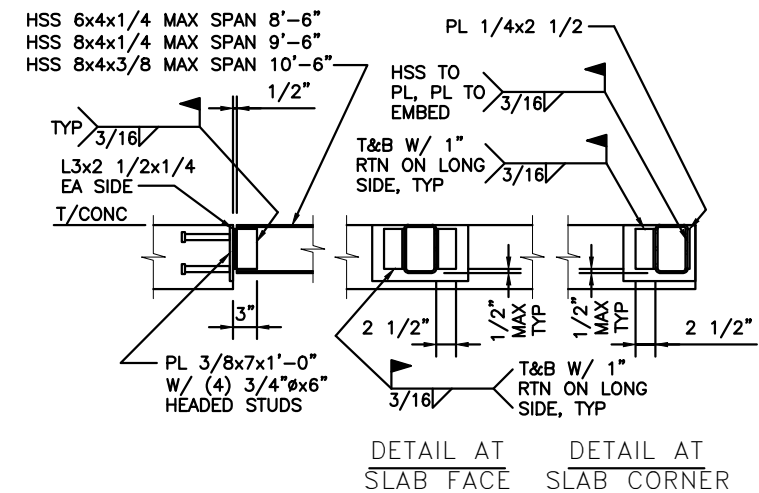
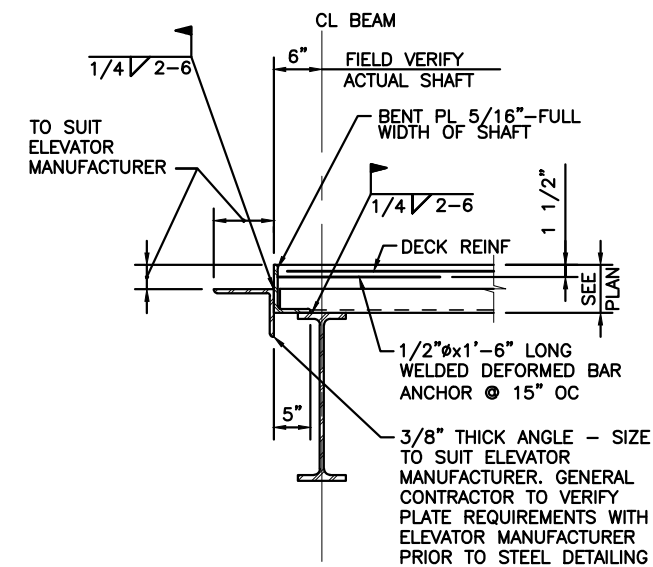
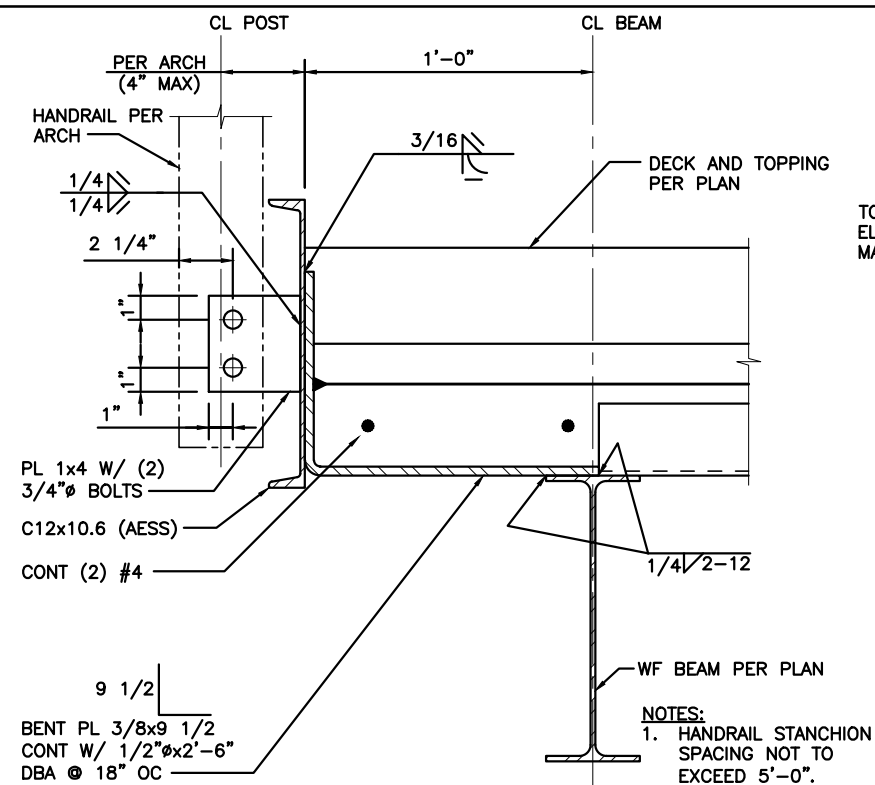
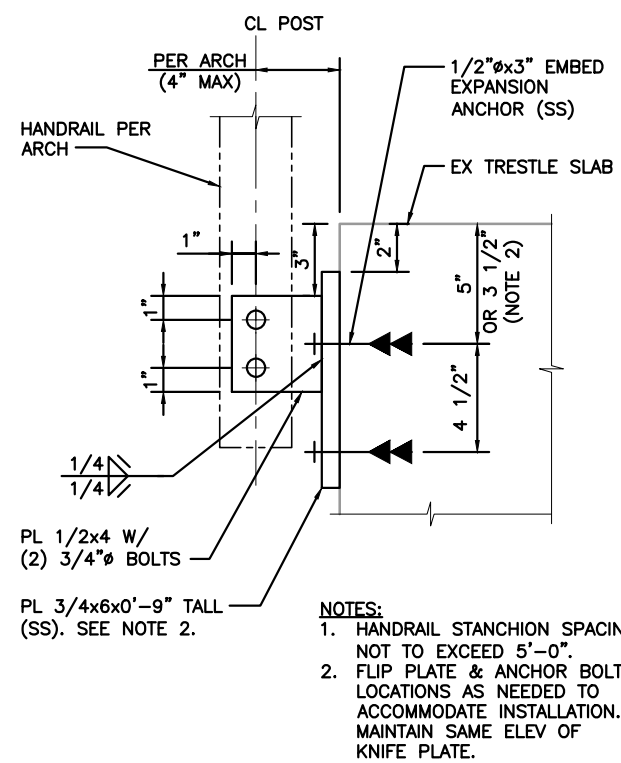
7 TYPICAL ROOF OPENINGS - SECTION

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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****	



SR 525	SB06.08
MUKILTEO FERRY TERMINAL (PHASE 2)	
FERRY TERMINAL CONSTRUCTION	
TYPICAL STEEL DETAILS	
	SHEET
	1165
	OF
	1521
	SHEETS



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ENTERED BY: B. RONIA		08/23/2018					REGION NO. STATE
CHECKED BY: A. EWING		08/23/2018					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	



08/23/2018
DATE



Washington State
Department of Transportation
WASHINGTON STATE FERRIES

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

TYPICAL STEEL DETAILS

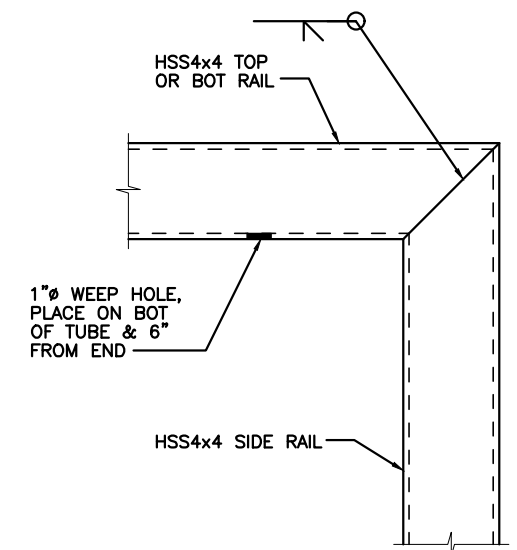
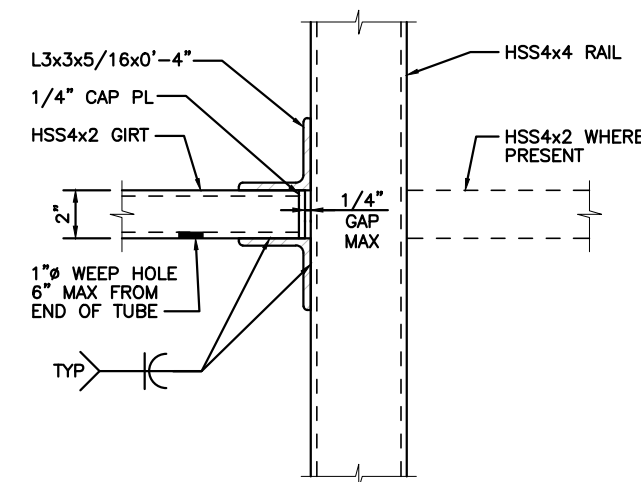
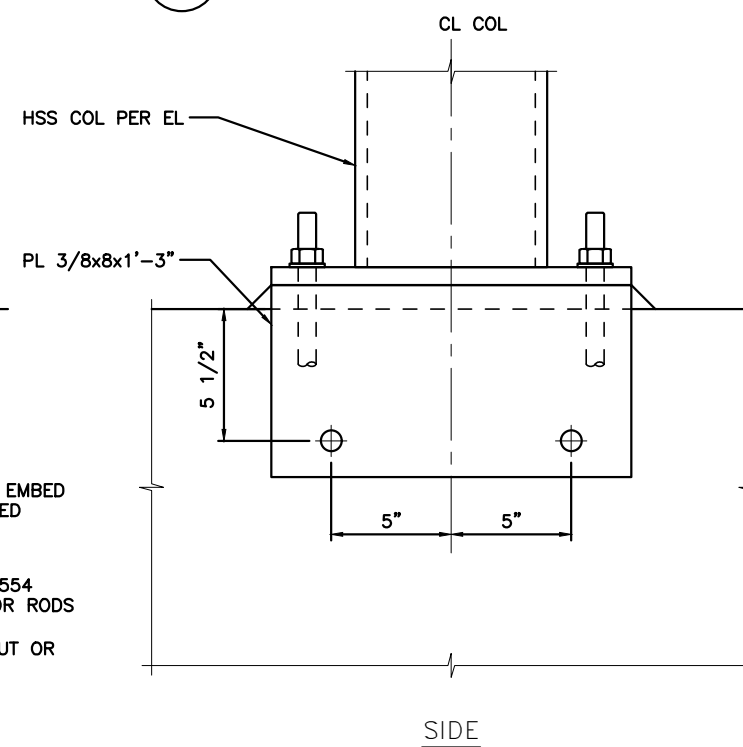
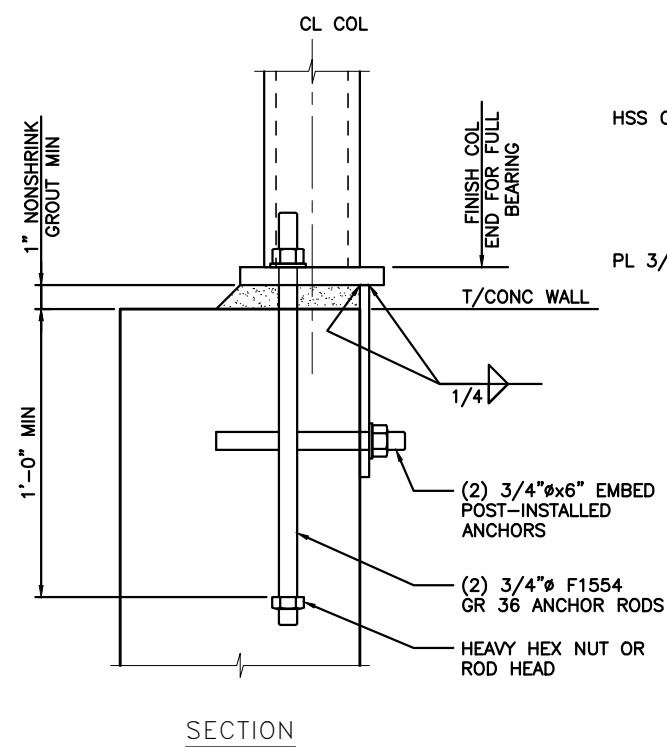
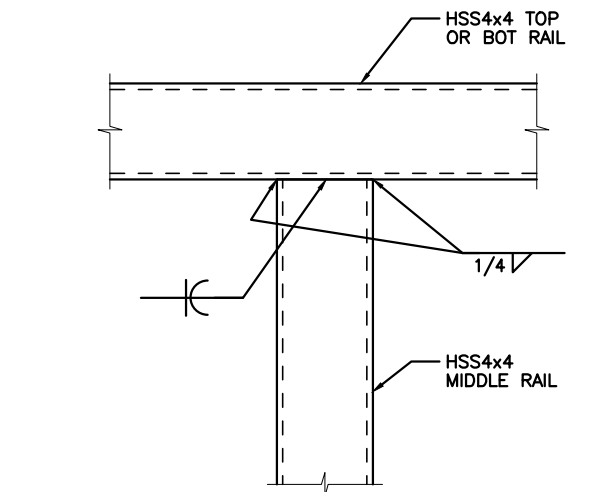
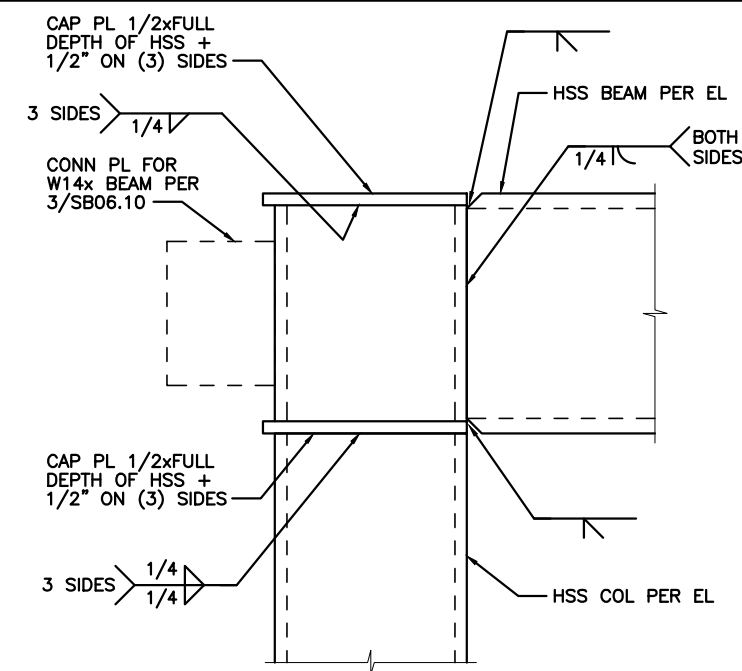
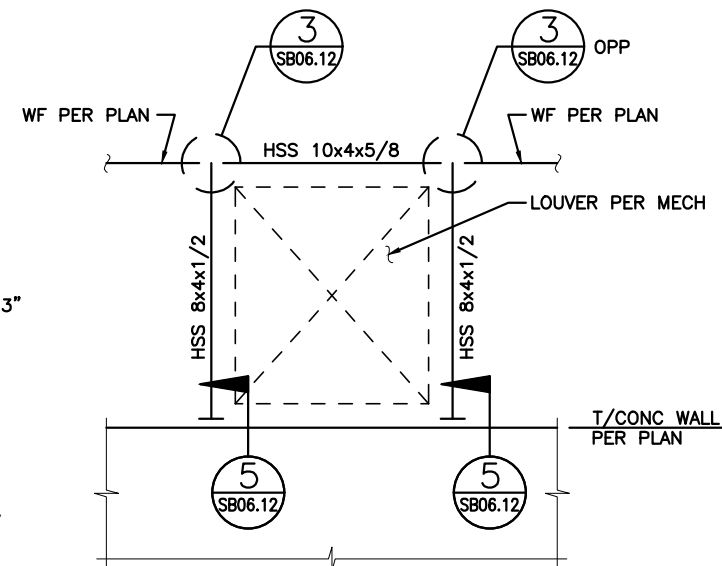
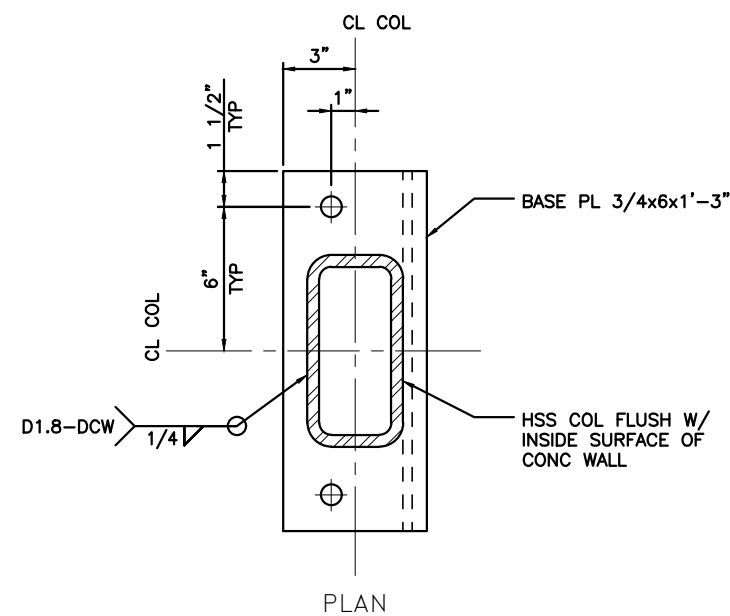
SB06.09

SHEET
1166
OF
1521
SHEETS



SB06.10

SHEET
1167
OF
1521
SHEETS



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CHECKED BY: A. EWING		08/23/2018								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****	



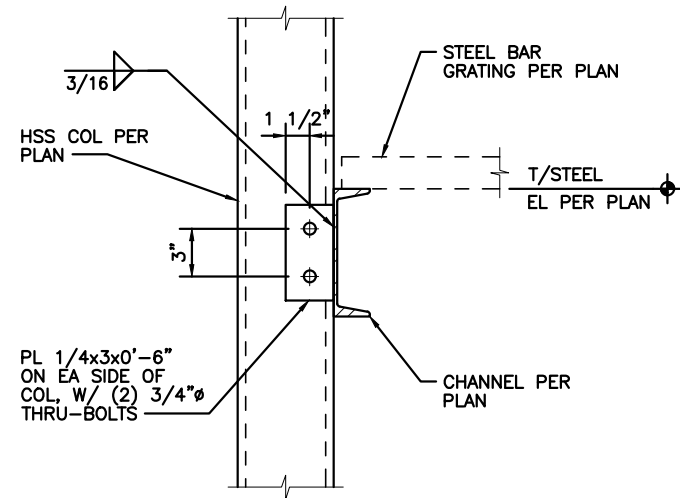
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

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

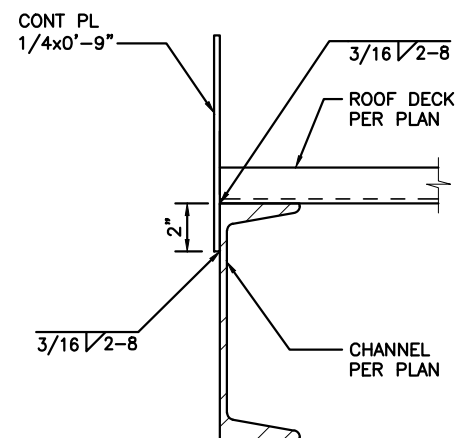
STEEL DETAILS – MAINTENANCE BLDG

SHEET
1169
OF
1521
SHEETS

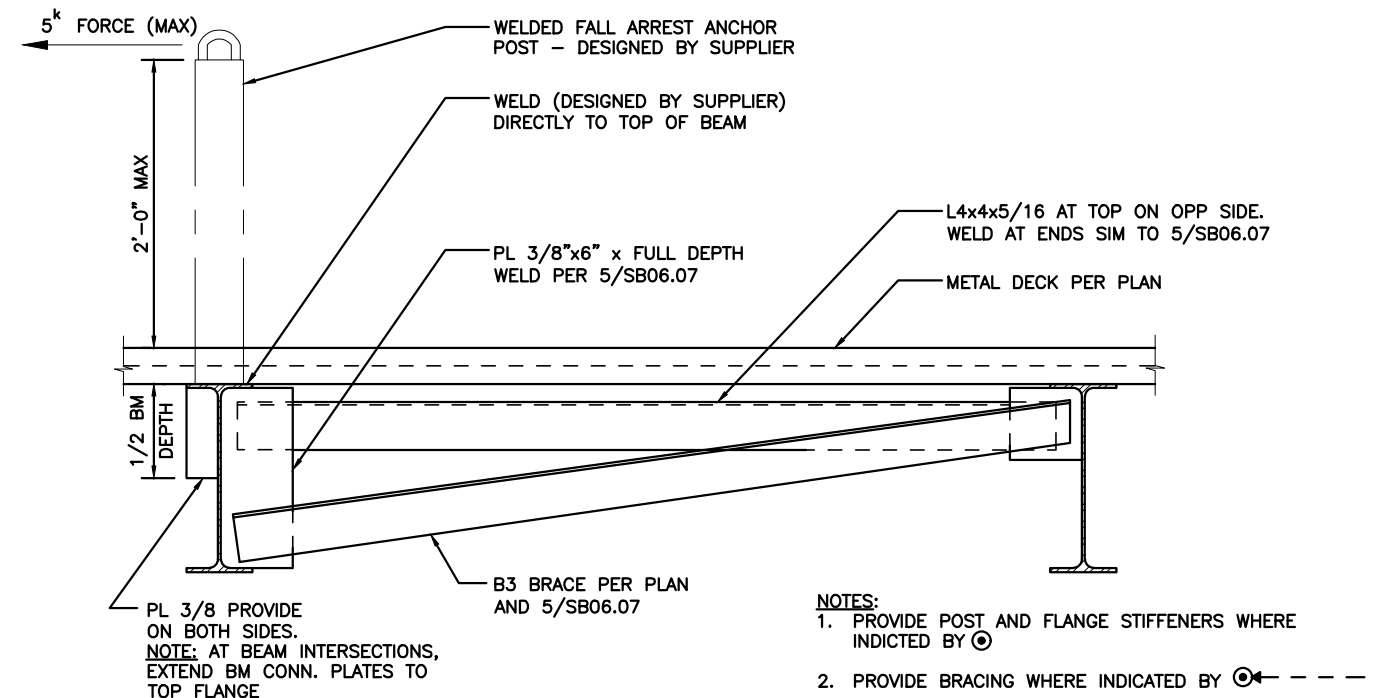
kpff



1 MAINTENANCE BLDG –
DETAIL



5 MAINTENANCE BLDG –
ROOF PERIMETER SECTION



7 MAINTENANCE BLDG – FALL ARREST ANCHOR BRACING

kpff

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DESIGNED BY: A. RADKE	08/23/2018				10 WASH	
ENTERED BY: B. RONIA	08/23/2018				JOB NUMBER	
CHECKED BY: A. EWING	08/23/2018				18W121	
MAR PROJ ENGR C. TORRES					CONTRACT NO.	
DIR TERM ENGR: N. MCINTOSH					00****	
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		

DATE



08/23/2018
DATE



SR 525
 MUKILTEO FERRY TERMINAL (PHASE 2)
 FERRY TERMINAL CONSTRUCTION
 STEEL DETAILS – MAINTENANCE BLDG

SB06.13
 SHEET
 1170
 OF
 1521
 SHEETS



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08/23/2018
DATE



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

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

VMS SUPPORT FRAME –
MAINTENANCE BUILDING

SB06.14

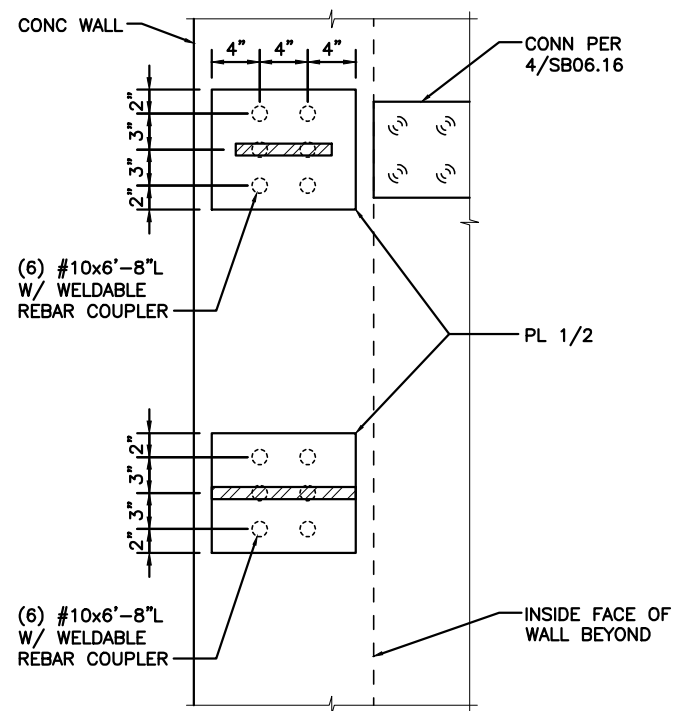
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1171

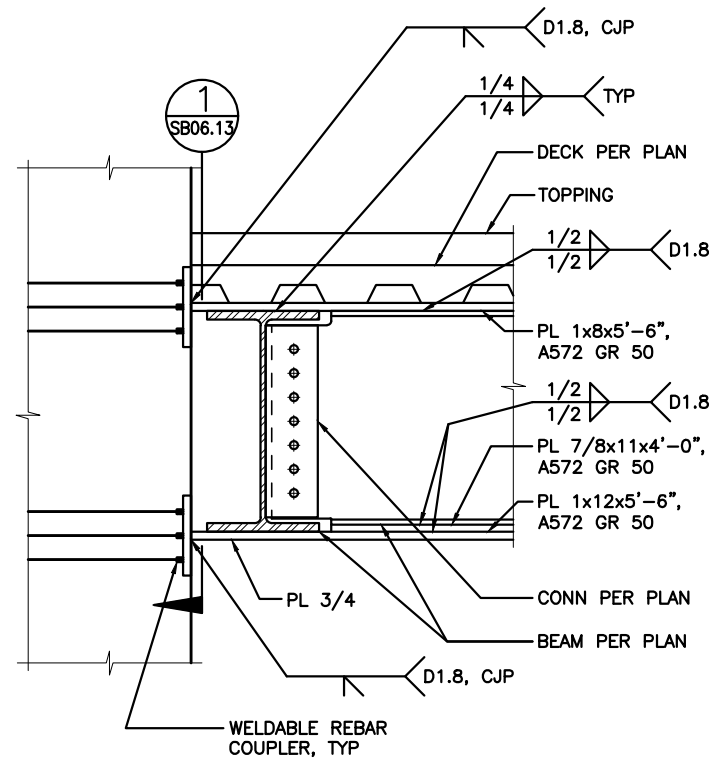
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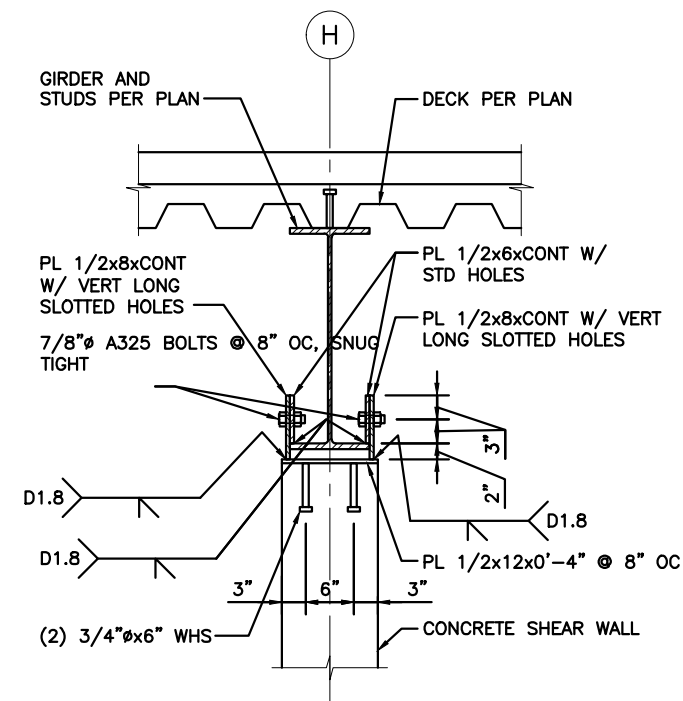
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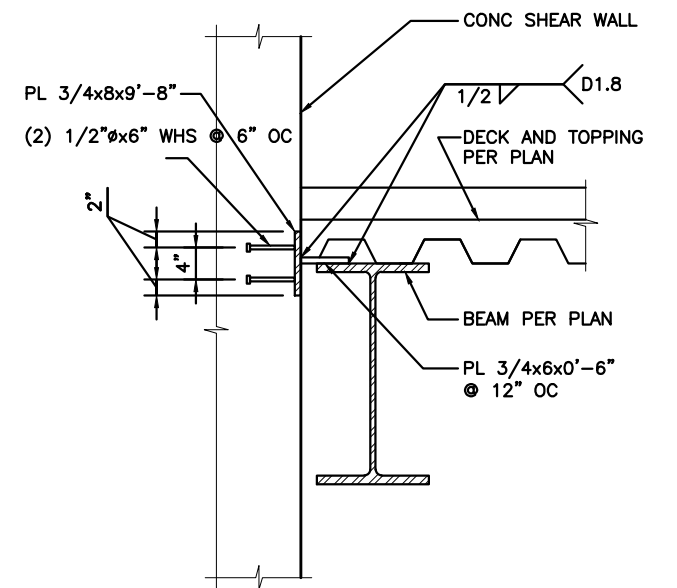
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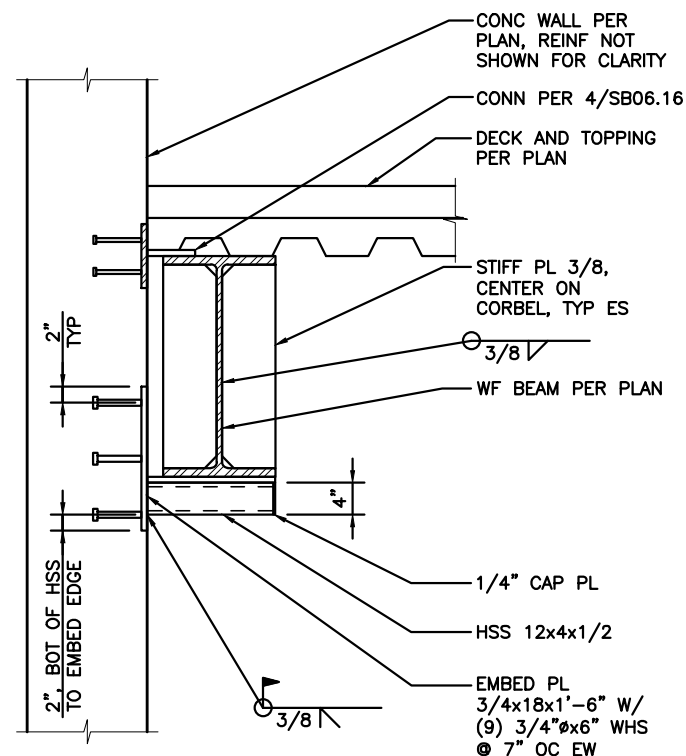
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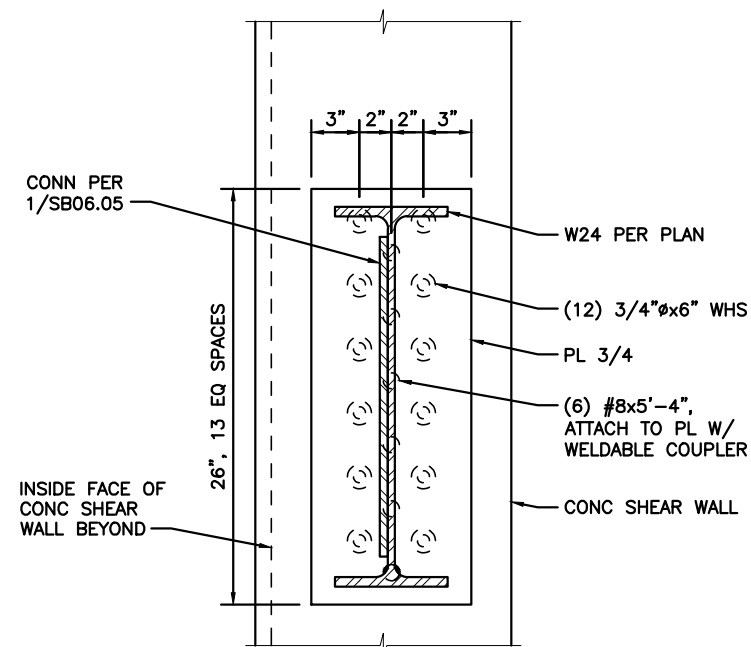
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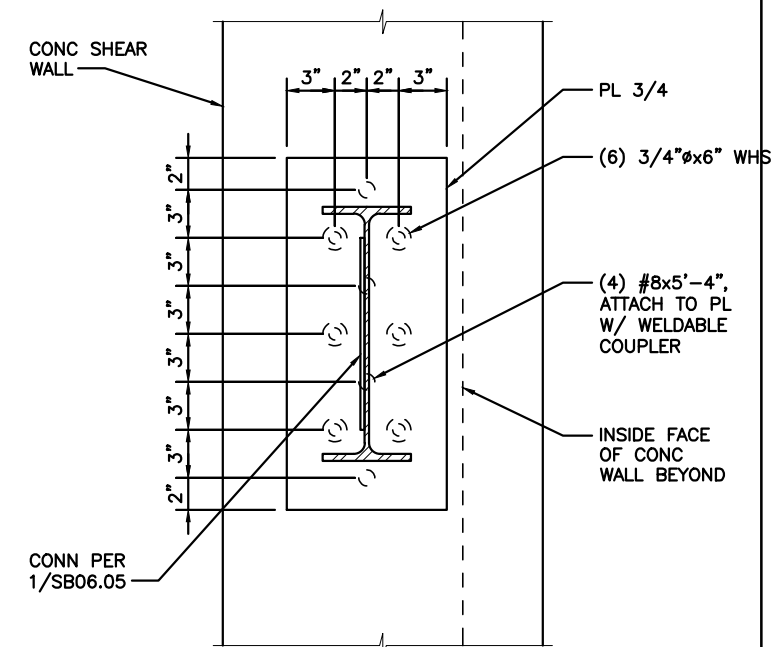
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6 TERM BLDG - BEAM CORBEL CONN



7 TERM BLDG - BEAM DRAG CONN

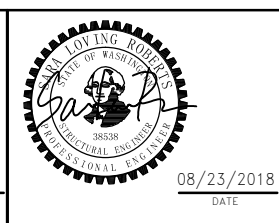


8 TERM BLDG - BEAM DRAG CONN

kpff

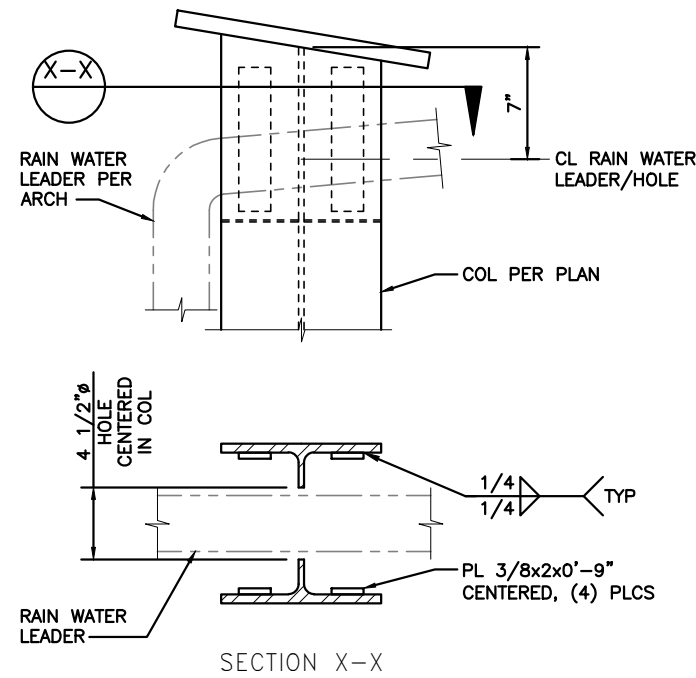
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MAR PROJ ENGR	C. TORRES				
DIR TERM ENGR:	N. MCINTOSH				
ASST SECRETARY:	A. SCARTON				
		REVISION	DATE	BY	

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

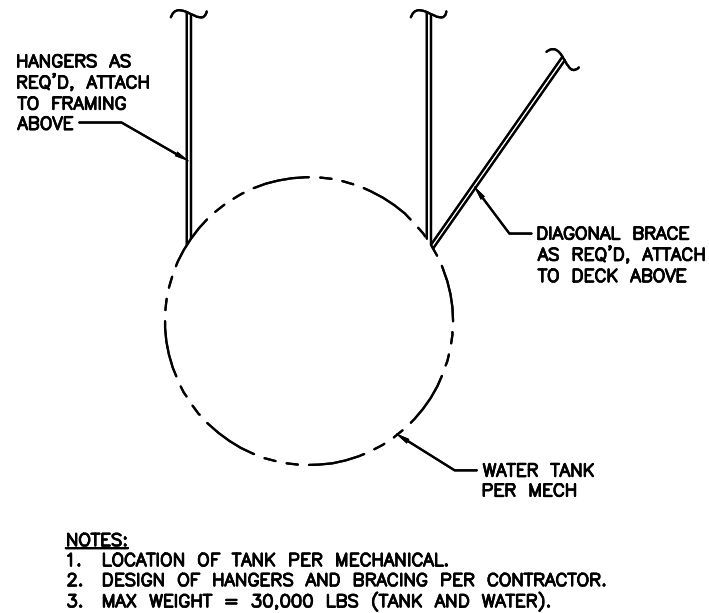


SR 525	
MUKILTEO FERRY TERMINAL (PHASE 2)	
FERRY TERMINAL CONSTRUCTION	
STEEL DETAILS - TERMINAL BLDG	

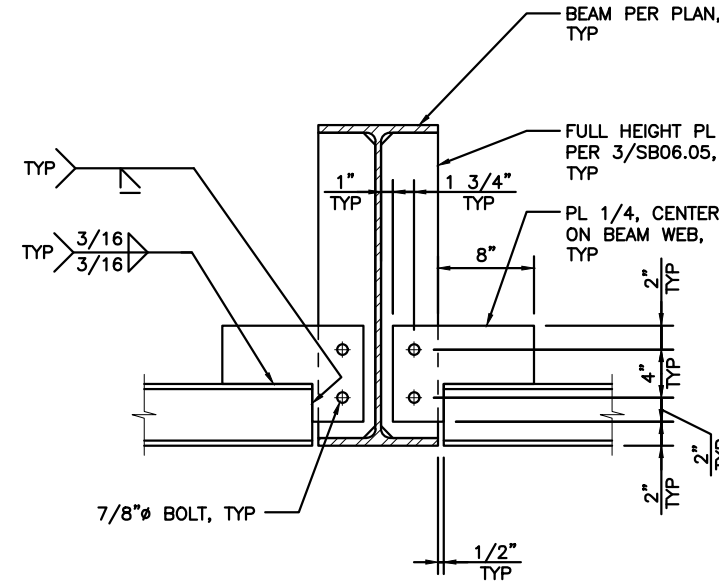
SB06.16
SHEET
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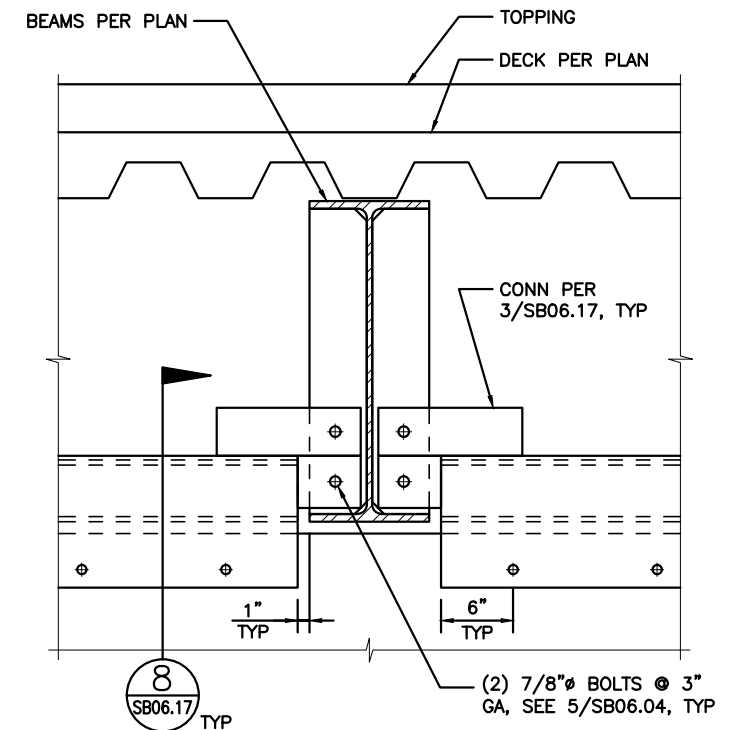
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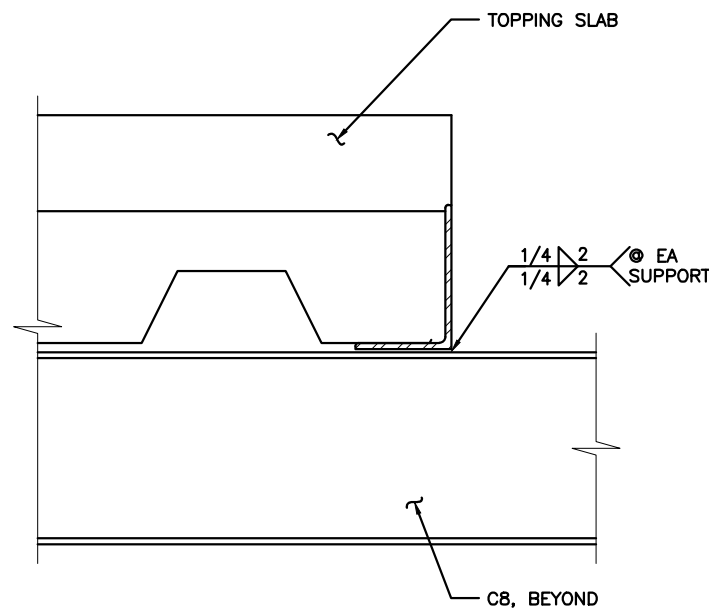
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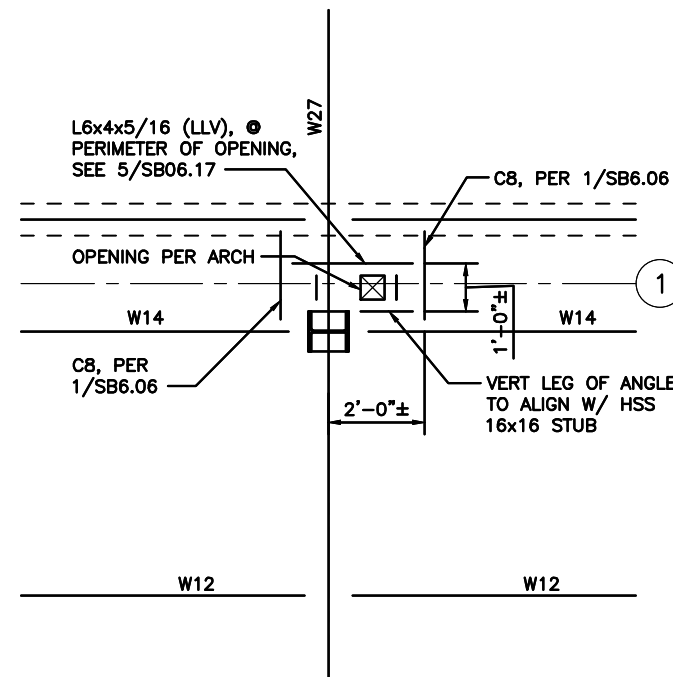
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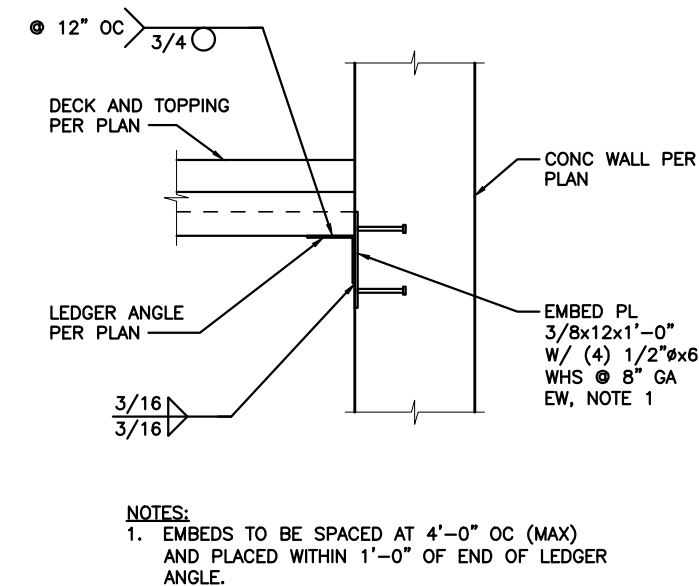
4 TERM BLDG –
CONC WALL CONN



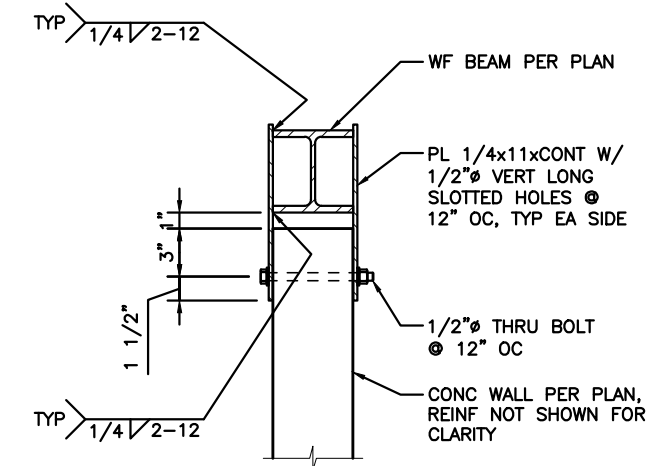
5 DETAIL



6 PARTIAL PLAN-TERM BLDG
RAIN LEADER PENETRATION



7 TERM BLDG –
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8 TERM BLDG –
CONC WALL CONN

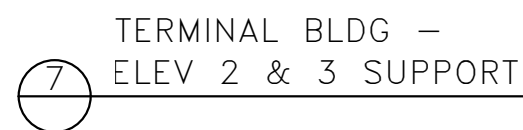
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ENTERED BY:	B. RONIA	08/23/2018			WA-2017-007-00
CHECKED BY:	A. EWING	08/23/2018			REGION NO. STATE
MAR PROJ ENGR	C. TORRES				10 WASH
DIR TERM ENGR:	N. MCINTOSH				JOB NUMBER
ASST SECRETARY:	A. SCARTON				18W121
					CONTRACT NO.
					00****
		REVISION	DATE	BY	



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
STEEL DETAILS – TERMINAL BLDG



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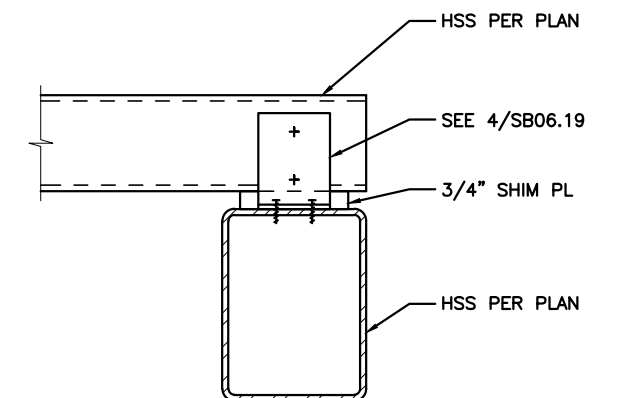
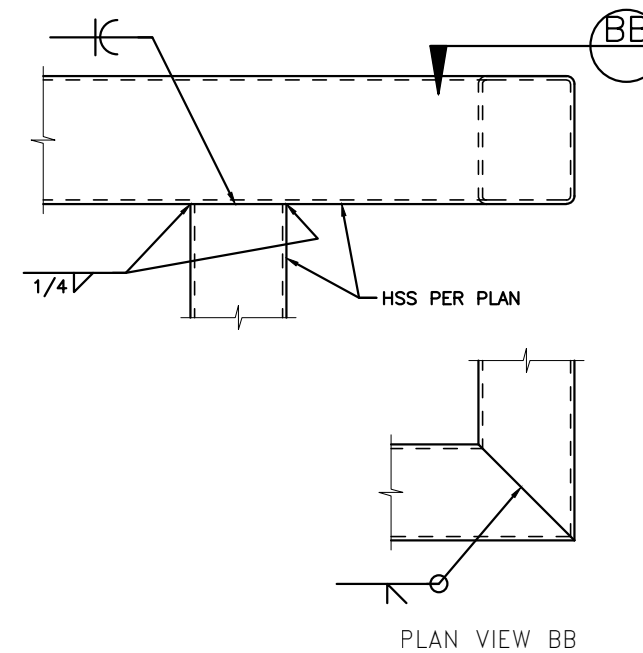
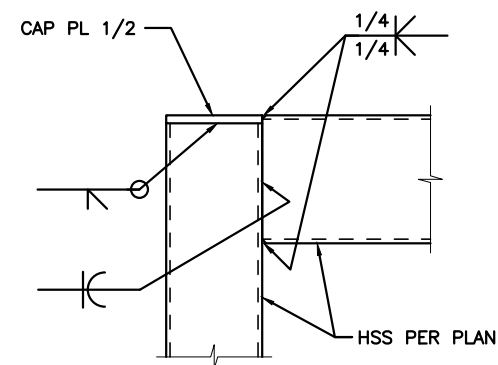
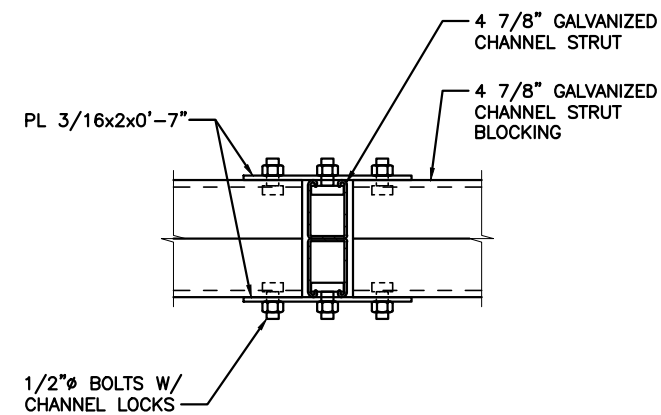
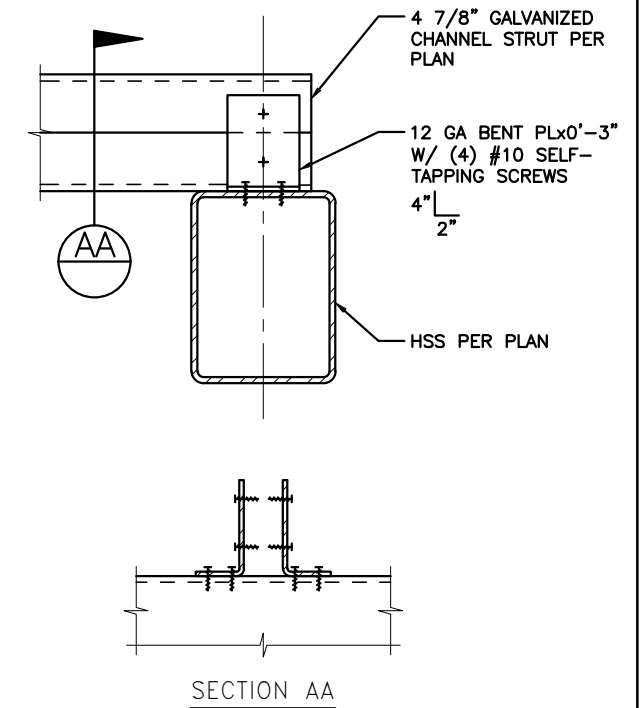
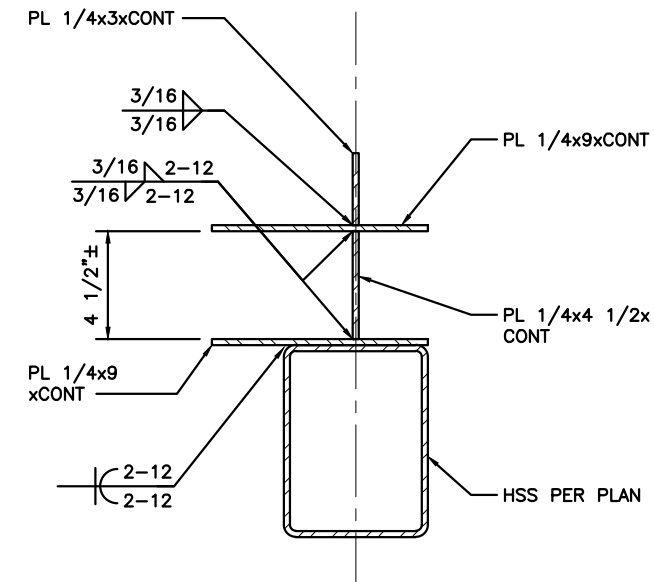
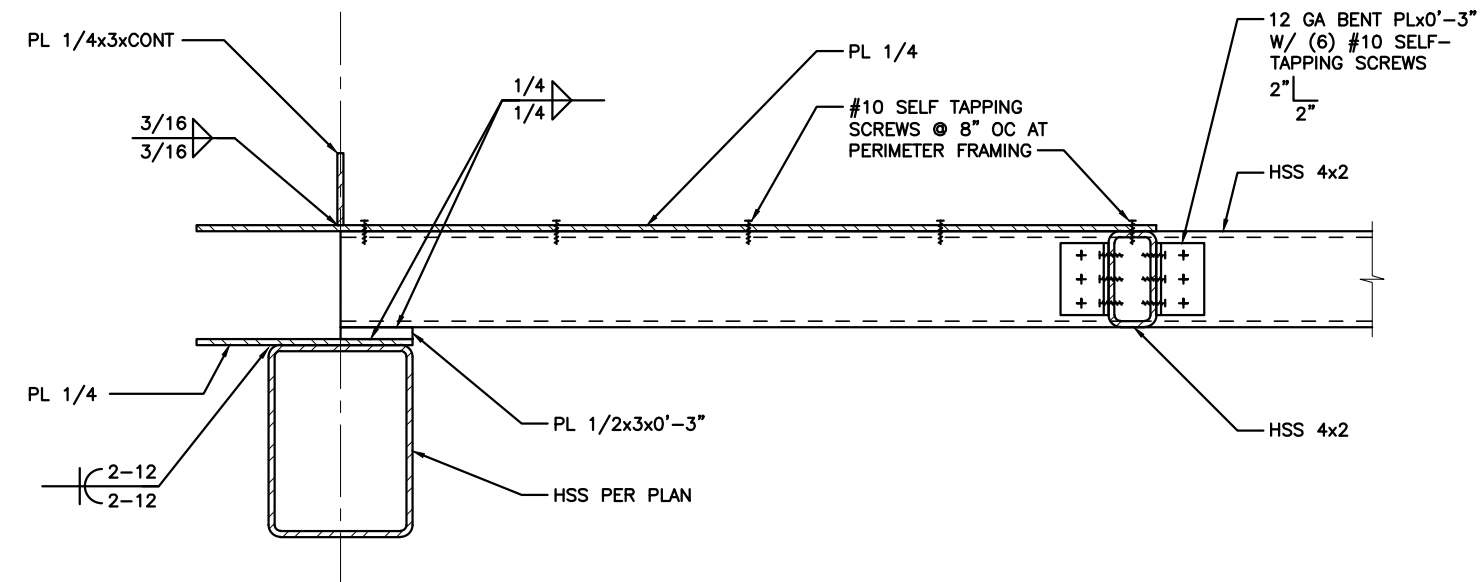
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

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

STEEL DETAILS – TERMINAL BLDG

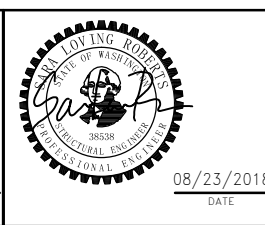
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SHEET
1174
OF
1521
SHEETS

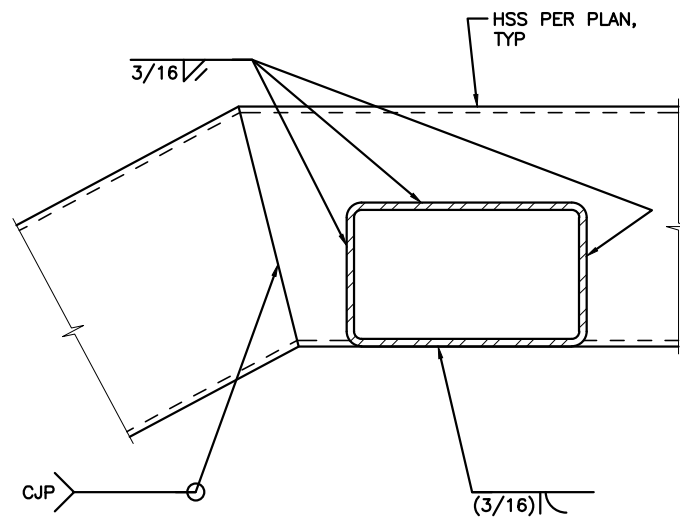


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MAR PROJ ENGR C. TORRES						JOB NUMBER 18W121
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ASST SECRETARY: A. SCARTON				REVISION	DATE	BY

DATE _____

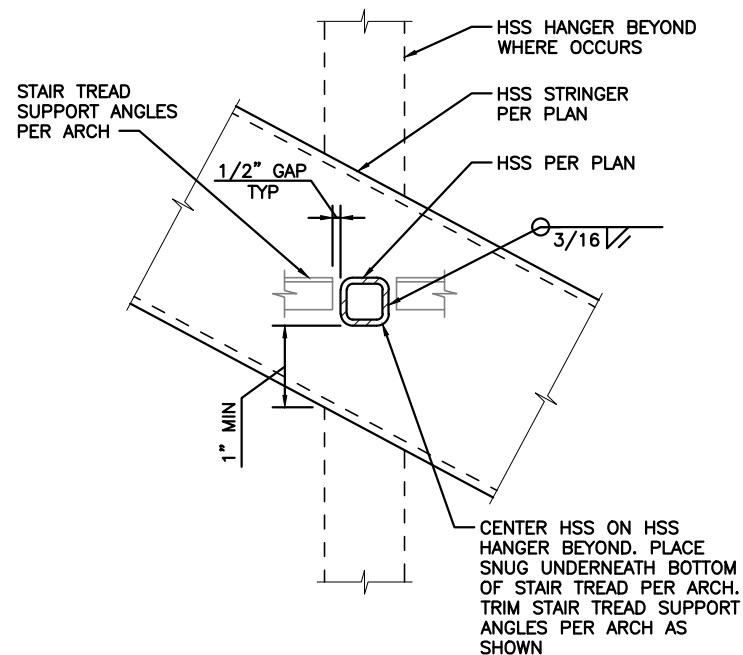


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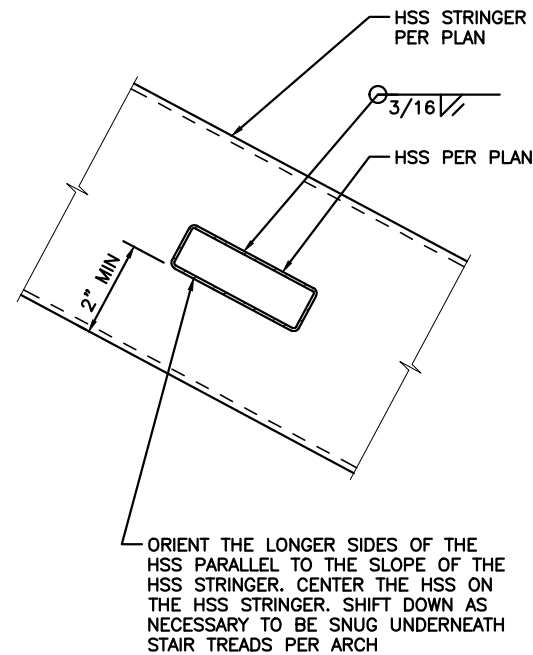


NOTES:
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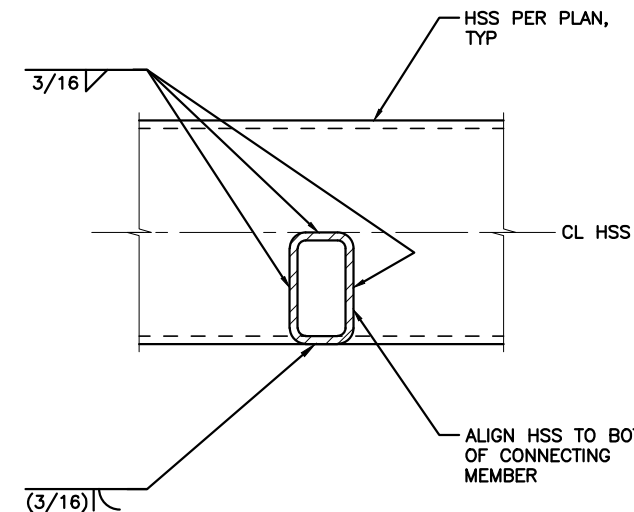
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1 STAIR 1 AND 2



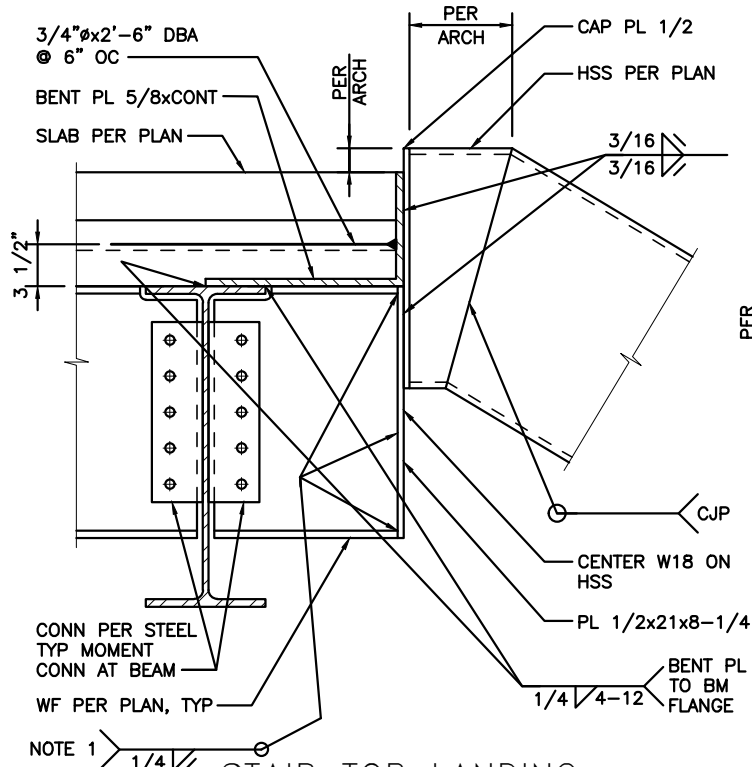
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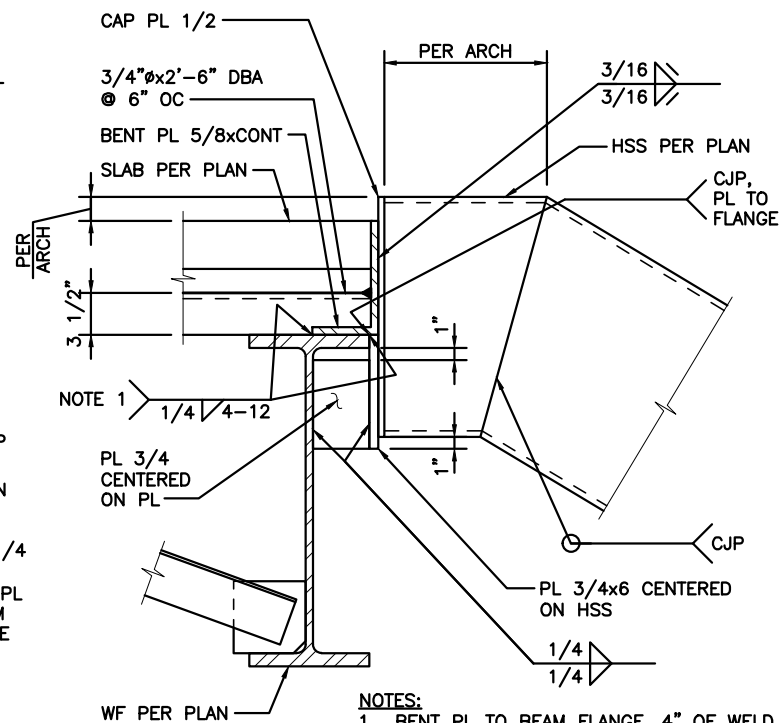
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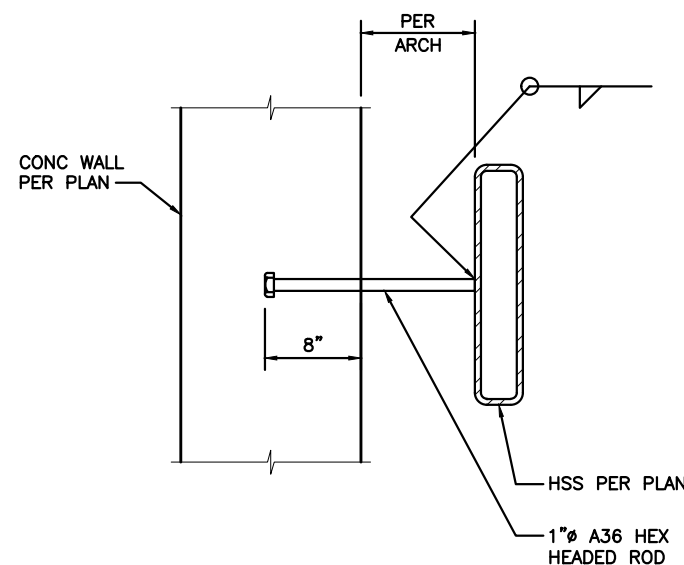
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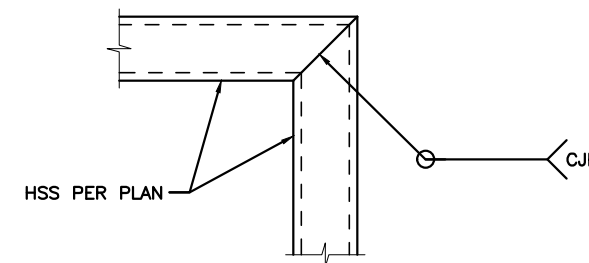
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CONN - STAIR 1



STAIR TOP LANDING
CONN - STAIR 2



ROD CONNECTION -
7 STAIR 1 AND 2



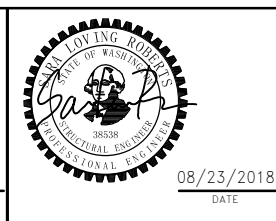
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8 STAIR LANDING CONN

kpff

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		REVISION	DATE	BY					

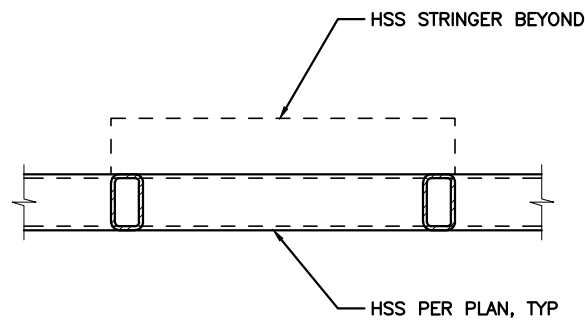
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WA-2017-007-00	
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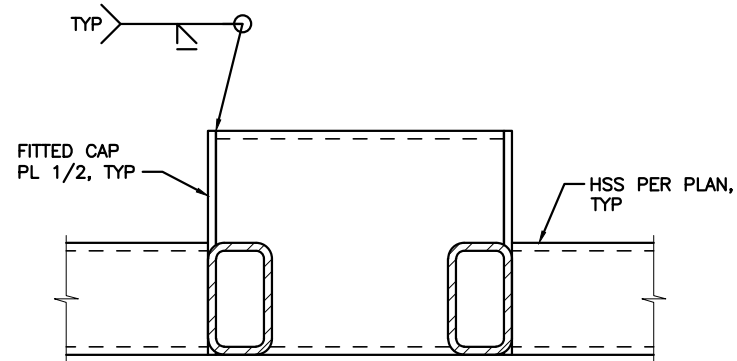
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
STEEL DETAILS - TERMINAL BLDG

SB06.30
SHEET
1176
OF
1521
SHEETS

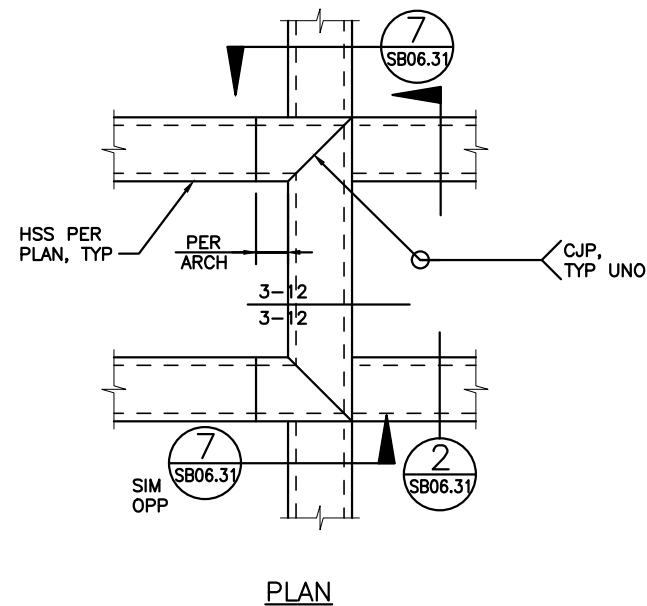
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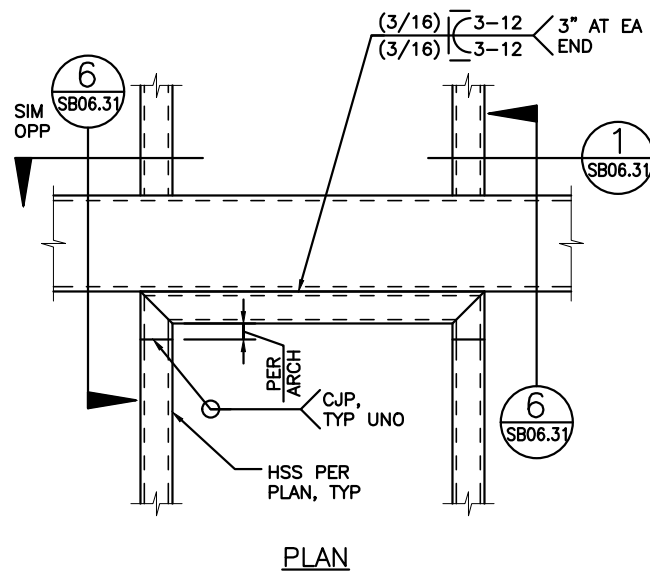
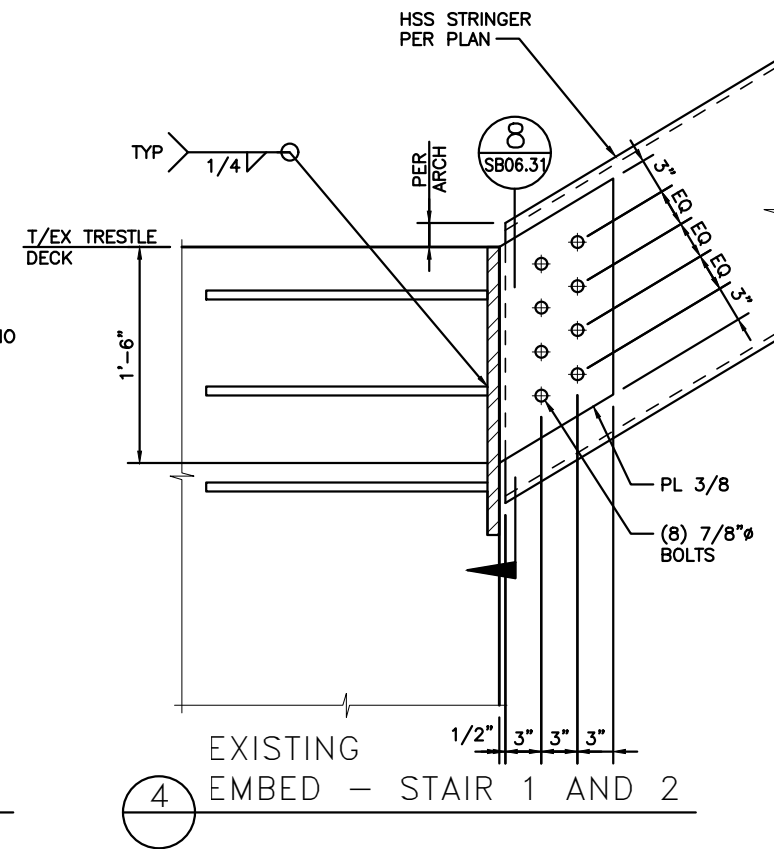
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STAIR 1 AND 2



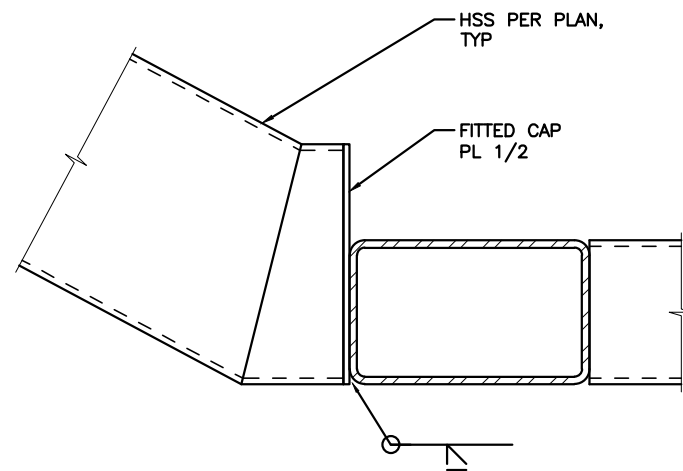
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3 STAIR LANDING CONN - STAIR 3

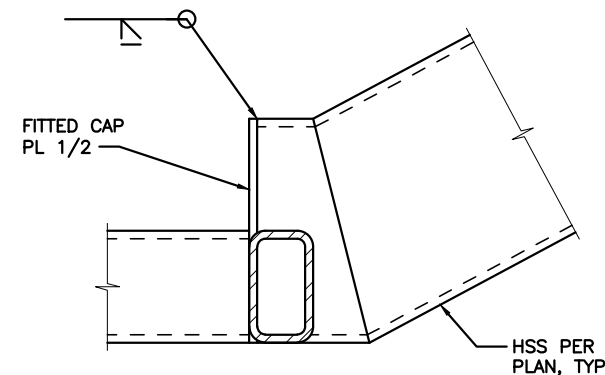


5 STAIR LANDING CONN -
STAIR 1 AND 2



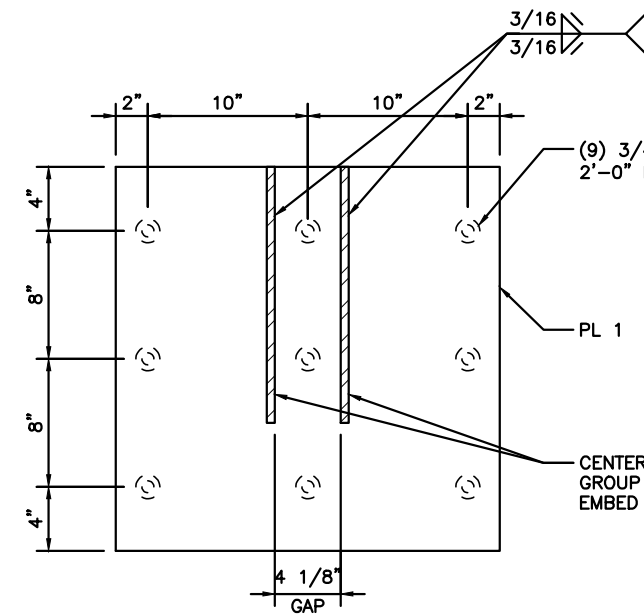
NOTES:
1. AT SIMILAR CONDITION ORIENTATION AND
SLOPE OF MEMBERS PER PLAN.

6 STAIR LANDING CONN -
STAIR 1 AND 2



NOTES:
1. AT SIMILAR CONDITION ORIENTATION AND
SLOPE OF MEMBERS PER PLAN.

7 STAIR LANDING CONN -
STAIR 3



8 EXISTING EMBED -
STAIR 1 AND 2

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CHECKED BY: A. EWING	08/23/2018		JOB NUMBER 18W121
MAR PROJ ENGR C. TORRES			CONTRACT NO. 00****
DIR TERM ENGR: N. MCINTOSH			
ASST SECRETARY: A. SCARTON			
REVISION	DATE	BY	



08/23/2018
DATE

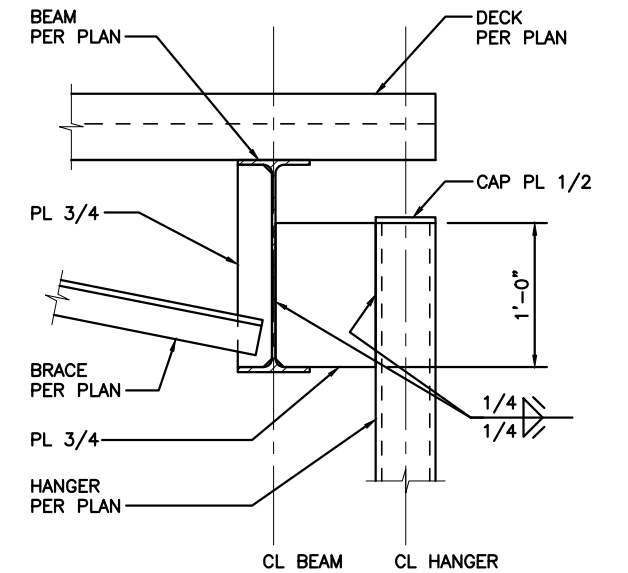
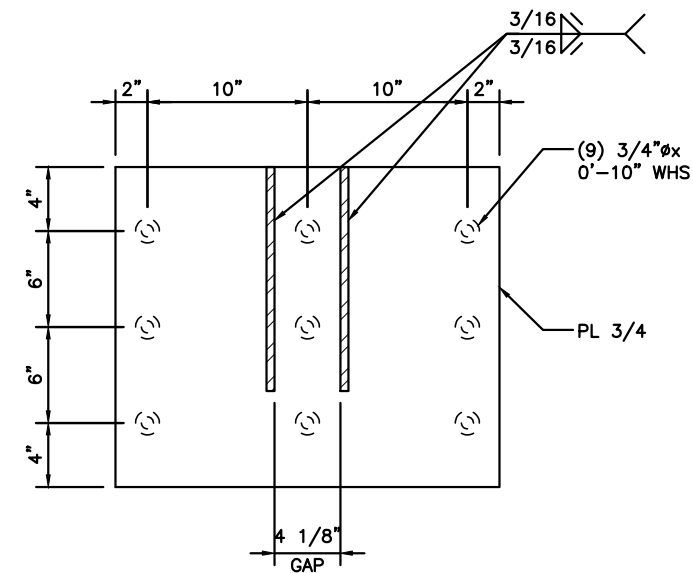
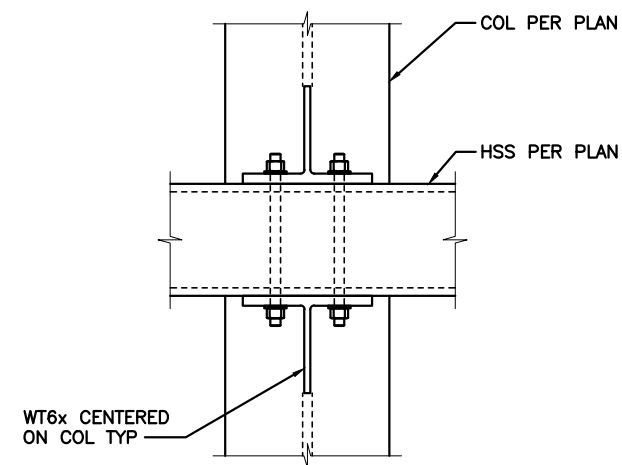
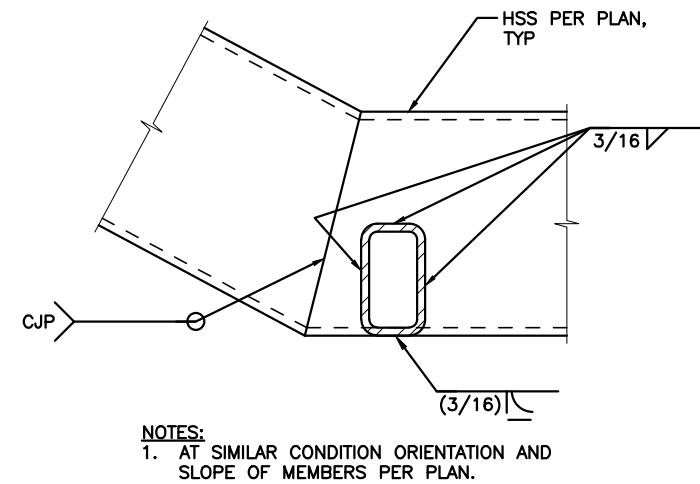
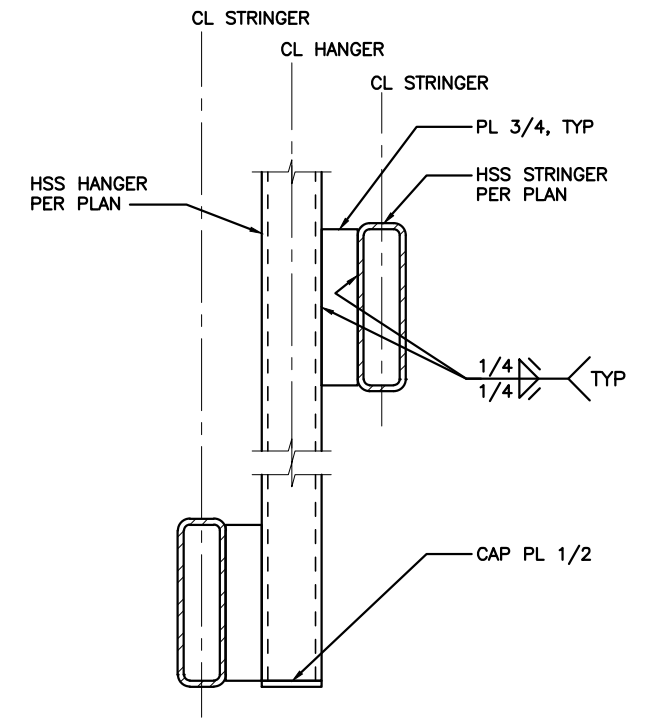
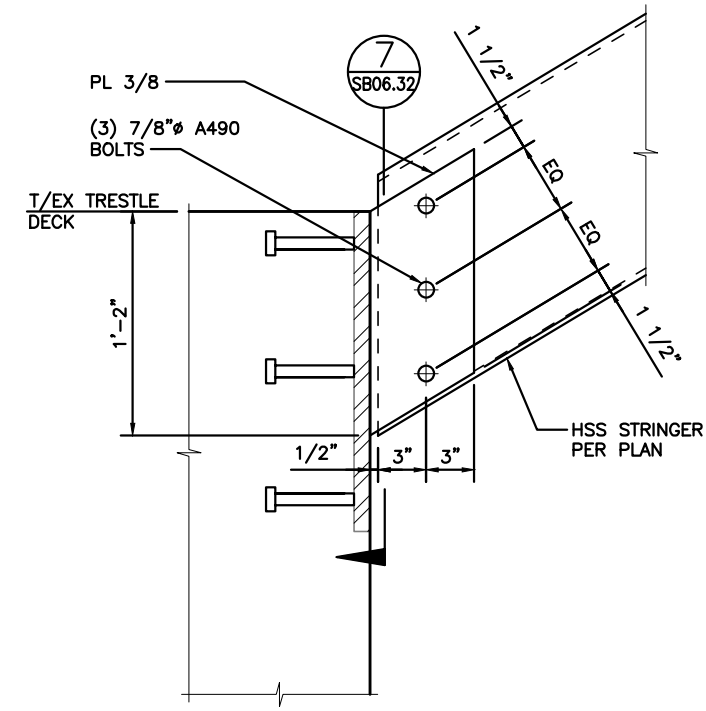
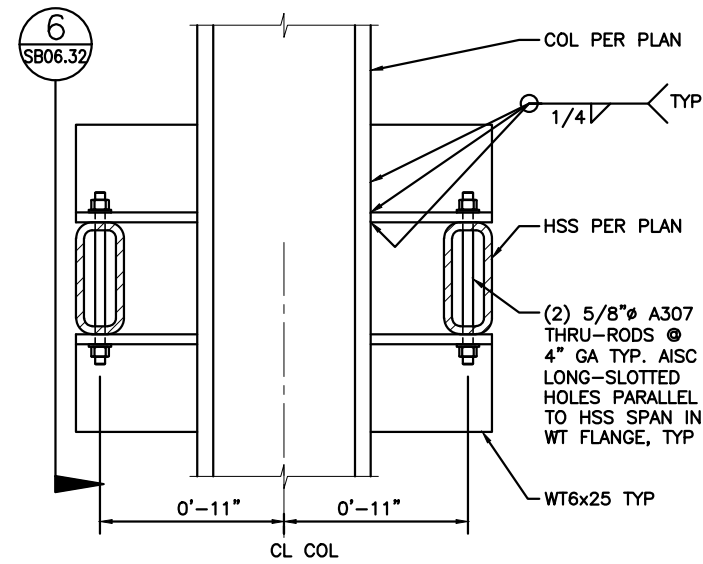
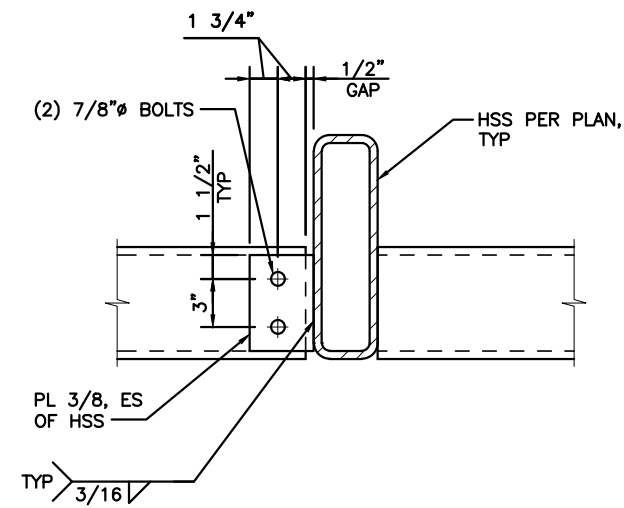


Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
STEEL DETAILS - TERMINAL BLDG

SB06.31
SHEET
1177
OF
1521
SHEETS

kpff



kpff

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SUBMITTAL DATE: 08/23/2018			ByronR				PROJ.NO.		
DESIGNED BY: A. RADKE			08/23/2018				WA-2017-007-0		
ENTERED BY: B. RONIA			08/23/2018				REGION NO. STATE		
CHECKED BY: A. EWING			08/23/2018				10 WASH		
MAR PROJ ENGR C. TORRES							JOB NUMBER		
DIR TERM ENGR: N. MCINTOSH							18W121		
ASST SECRETARY: A. SCARTON					REVISION		DATE	BY	CONTRACT NO.
									00****



08/23/2018
DATE

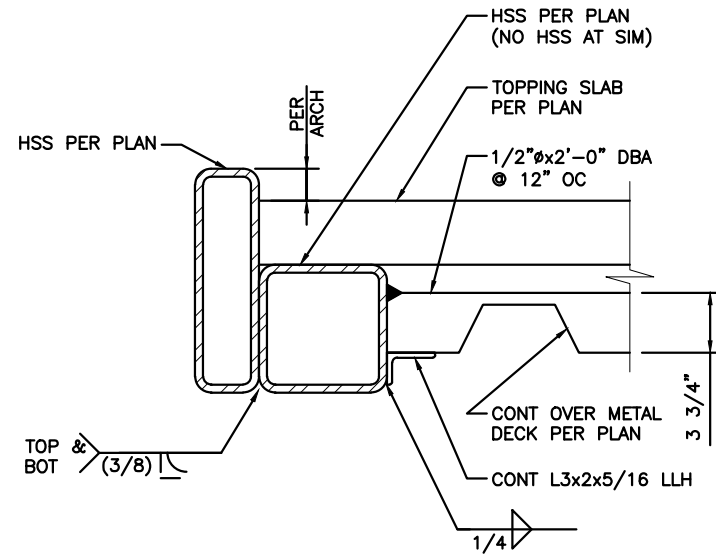


Washington State
Department of Transportation
WASHINGTON STATE FERRIES

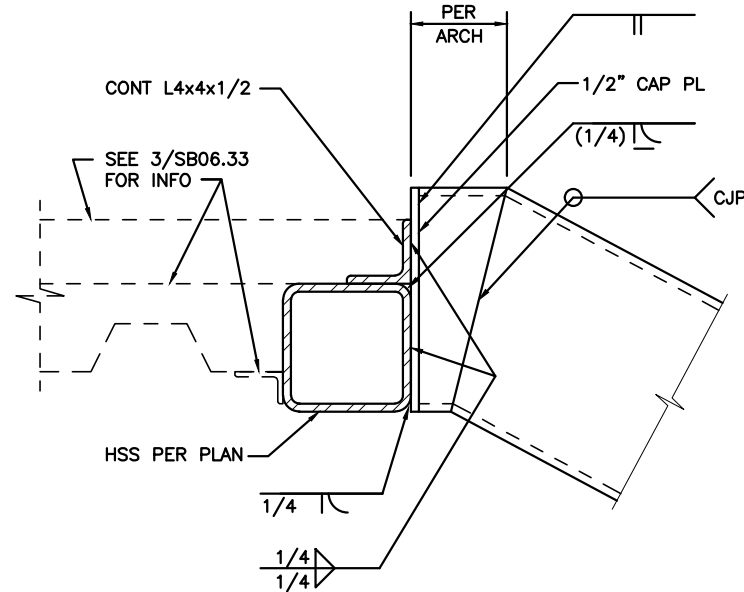
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

STEEL DETAILS – TERMINAL BLDG

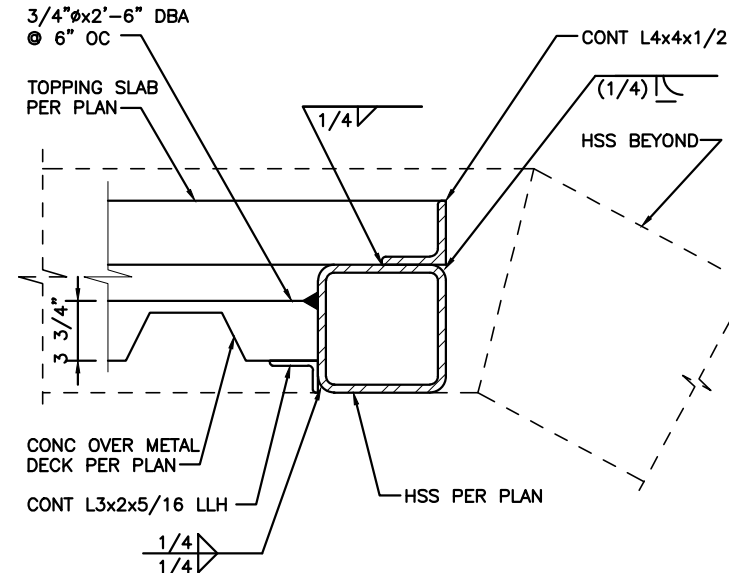
SHEET
1178
OF
1521
SHEETS



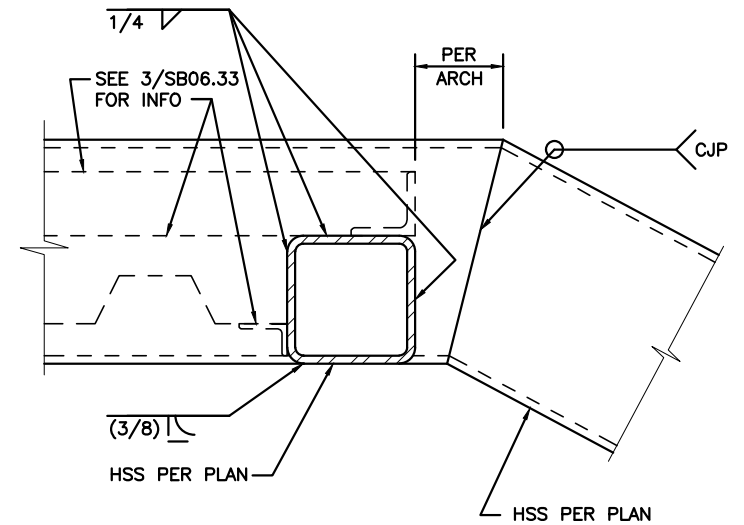
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STAIR 3



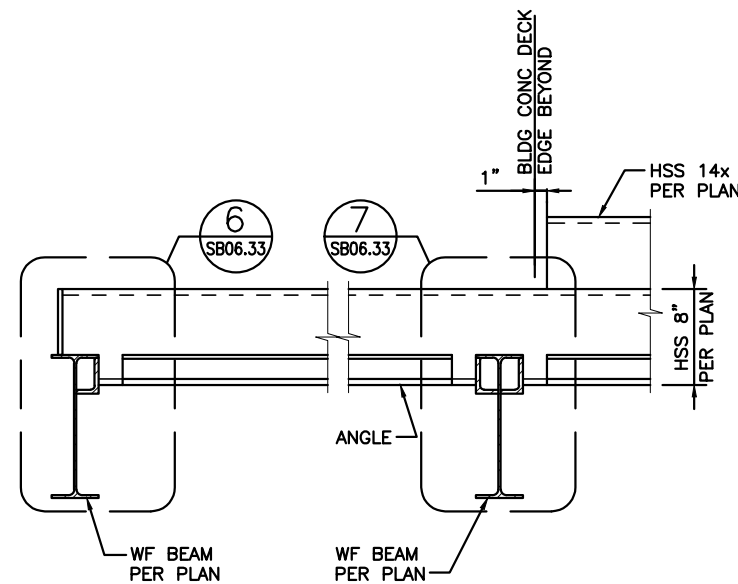
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STAIR 3



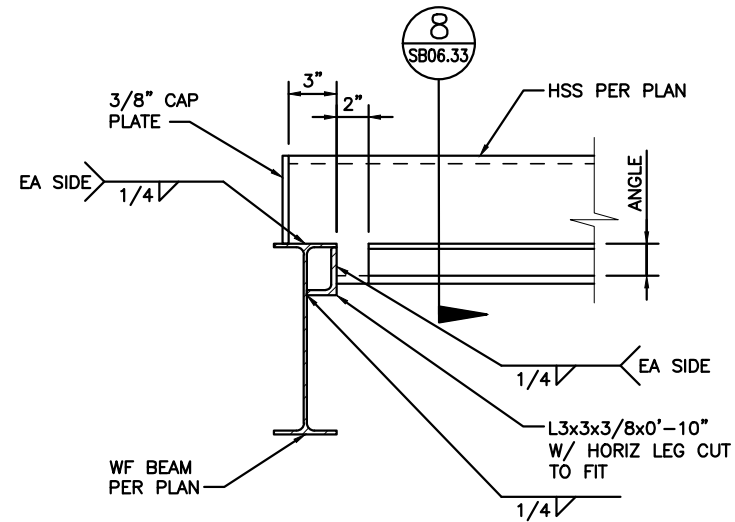
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STAIR 3



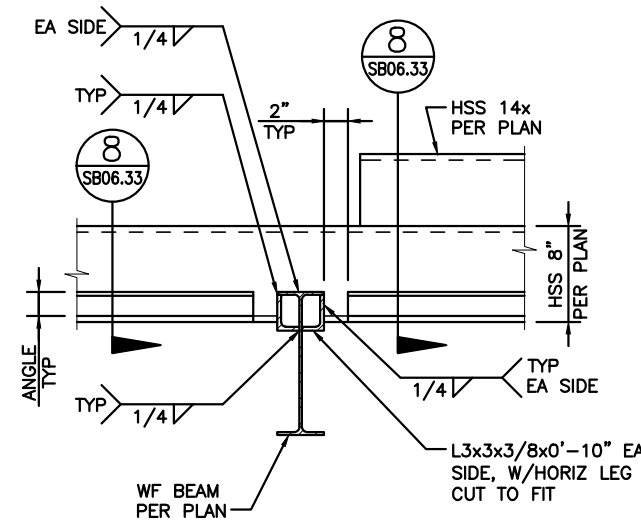
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STAIR 3



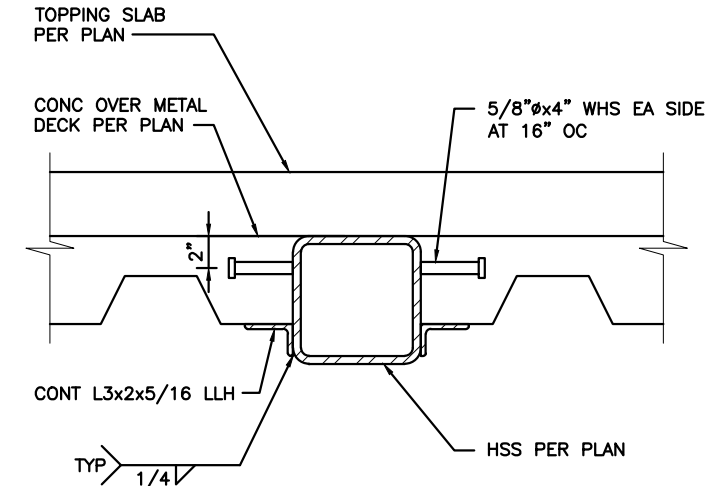
LANDING SUPPORT SECTION -
STAIR 3



LANDING SUPPORT INTERIOR
CONN - STAIR 3



LANDING SUPPORT INTERIOR
CONN - STAIR 3



LANDING SUPPORT INTERIOR
SECTION - STAIR 3

FILE NAME:	14W121SB06_33.dwg				
PRINTED:	2:42:17 PM 9/21/2018	LAST PRINTED BY:			
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DESIGNED BY:	A. RADKE	08/23/2018			
ENTERED BY:	B. RONIA	08/23/2018			
CHECKED BY:	A. EWING	08/23/2018			
MAR PROJ ENGR	C. TORRES				
DIR TERM ENGR:	N. MCINTOSH				
ASST SECRETARY:	A. SCARTON				
		REVISION	DATE	BY	

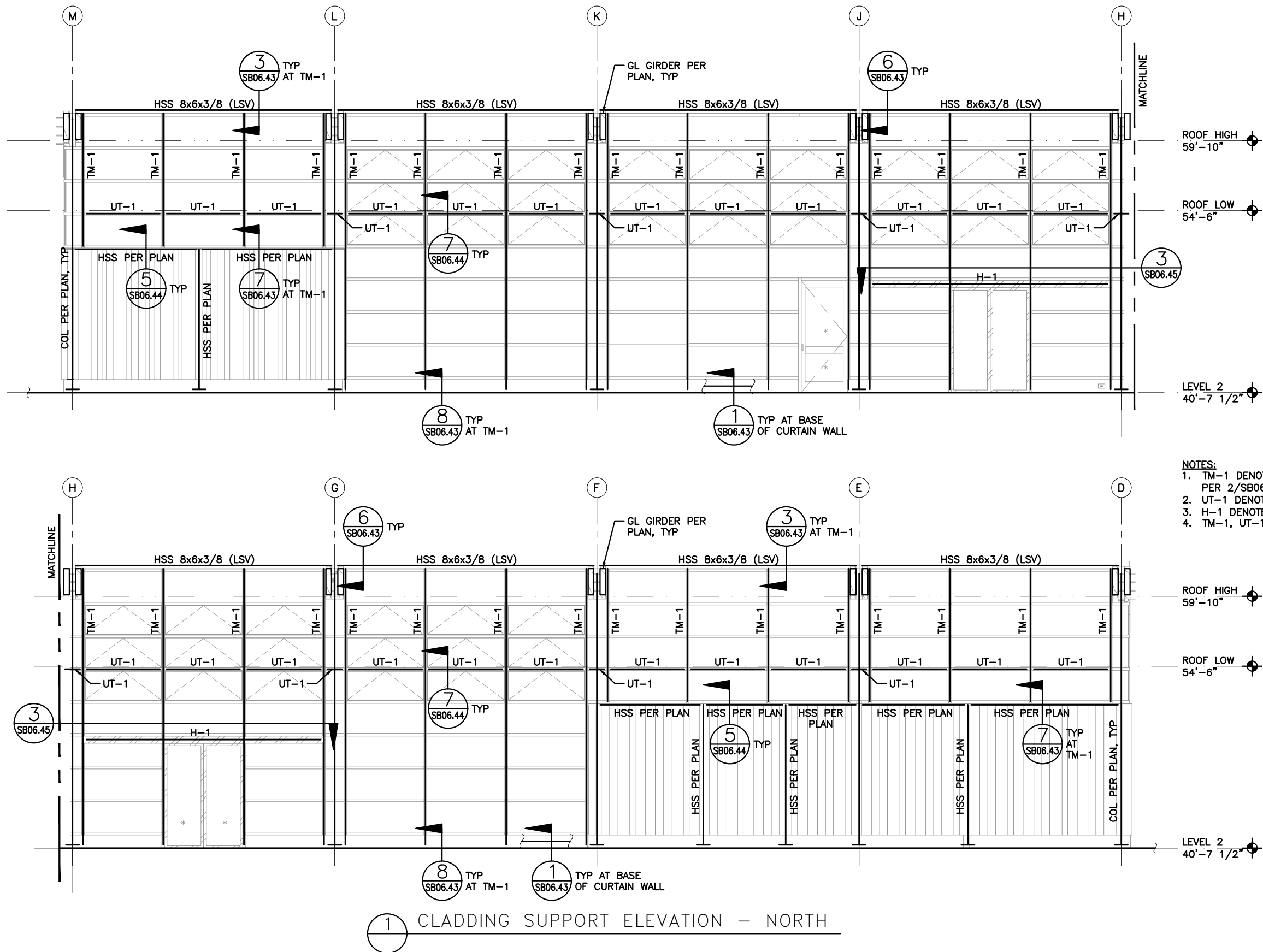


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
STEEL DETAILS - TERMINAL BLDG

kpff

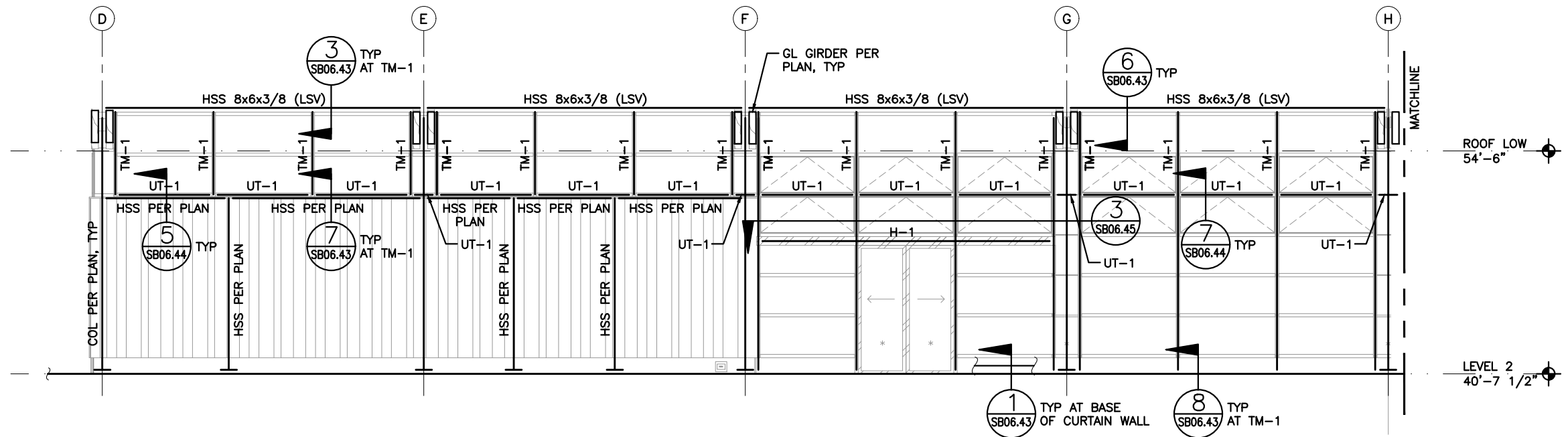
SB06.33
SHEET
1179
OF
1521
SHEETS

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Plotted: 9/21/18 at 2:42pm By: DianeL

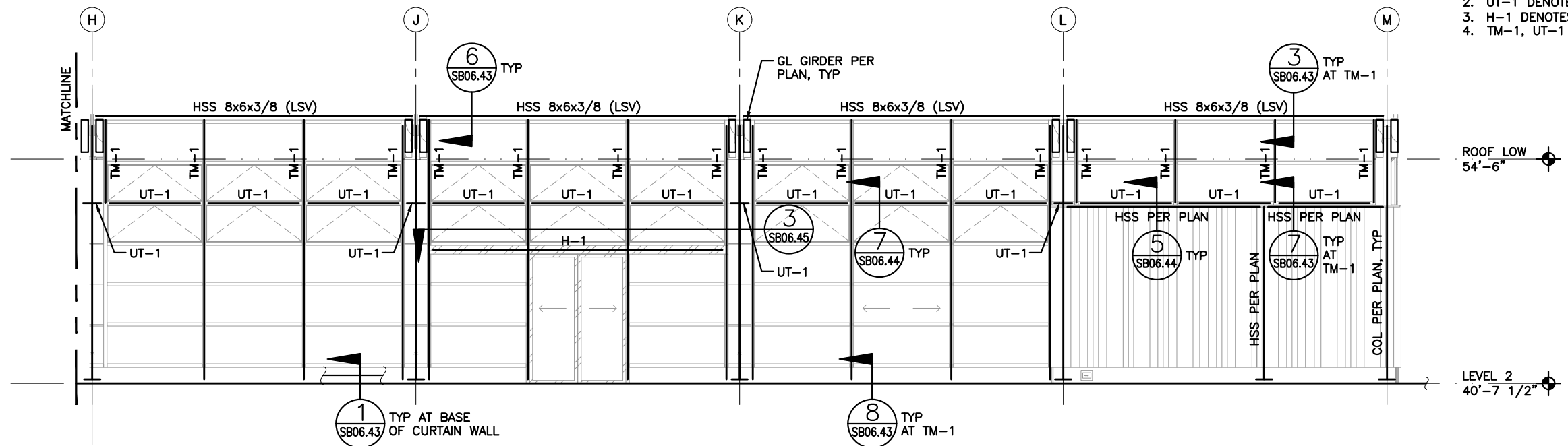


- NOTES:
1. TM-1 DENOTES T-MULLION VERTICAL SUPPORT PER 2/SB06.43.
 2. UT-1 DENOTES UTILITY TROUGH PER 3/SB06.44.
 3. H-1 DENOTES BOX HEADER PER 3/SB06.45.
 4. TM-1, UT-1 AND H-1 MEMBERS TO BE AESS.

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SUBMITTAL DATE: 08/23/2018	ByronR				PROJ.NO.
DESIGNED BY: A. RADKE	08/23/2018				WA-2017-007-00
ENTERED BY: B. RONIA	08/23/2018				
CHECKED BY: A. EWING	08/23/2018				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.
					00****



- NOTES:**
1. TM-1 DENOTES T-MULLION VERTICAL SUPPORT PER 2/SB06.43.
 2. UT-1 DENOTES UTILITY TROUGH PER 3/SB06.44.
 3. H-1 DENOTES BOX HEADER PER 3/SB06.45.
 4. TM-1, UT-1 AND H-1 MEMBERS TO BE AESS.



1 CLADDING SUPPORT ELEVATION – SOUTH

kpff

FILE NAME: 14W121SB06_41.dwg			
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SUBMITTAL DATE: 08/23/2018			WA-2017-007-00
DESIGNED BY: A. RADKE	08/23/2018		REGION NO. STATE
ENTERED BY: B. RONIA	08/23/2018		10 WASH
CHECKED BY: A. EWING	08/23/2018		JOB NUMBER
MAR PROJ ENGR C. TORRES			18W121
DIR TERM ENGR: N. MCINTOSH			CONTRACT NO.
ASST SECRETARY: A. SCARTON			00****
REVISION	DATE	BY	

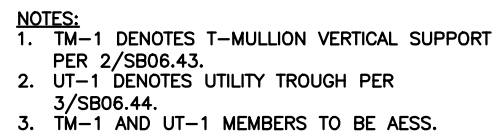


08/23/2018



SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
STEEL DETAILS – CLADDING SUPPORT

SB06.41
SHEET
1181
OF
1521
SHEETS



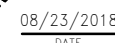
NOTES:

1. TM-1 DENOTES T-MULLION VERTICAL SUPPORT PER 2/SB06.43.
2. UT-1 DENOTES UTILITY TROUGH PER 3/SB06.44.
3. TM-1 AND UT-1 MEMBERS TO BE AESS.

2 CLADDING SUPPORT ELEVATION – WEST



0	
1	
DATE	

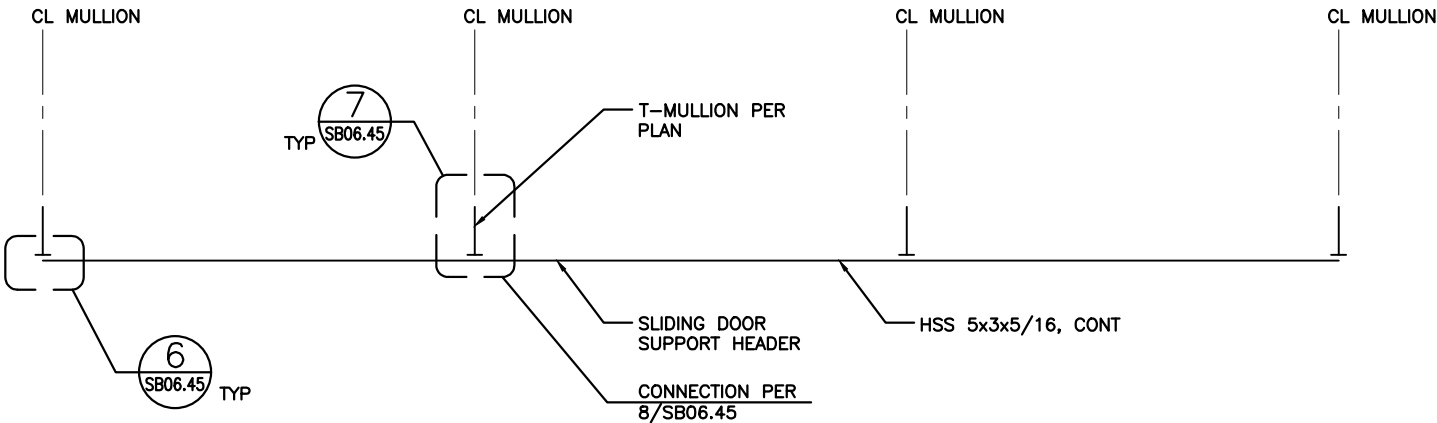


STEEL DETAILS – CLADDING SUPPORT

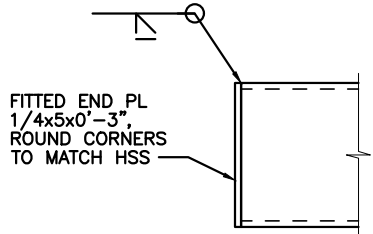
SHEET
1184
OF
1521
SHEETS

kpff

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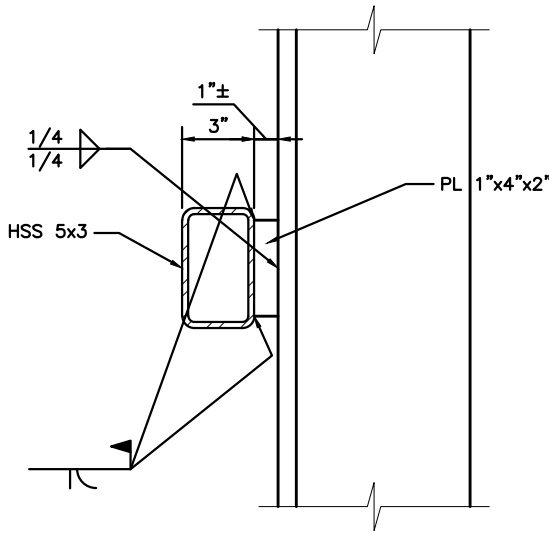
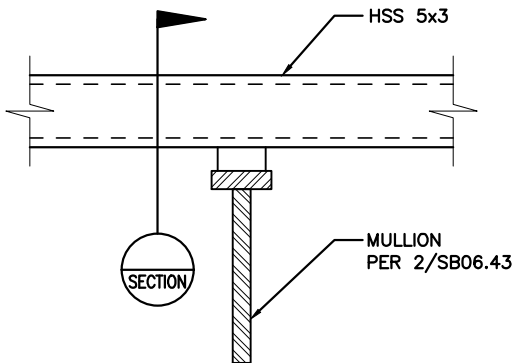


3 SLIDING DOOR HEADER PARTIAL PLAN



ELEVATION

6 SLIDING DOOR SUPPORT END RAIL



SECTION

7 DETAIL

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PRINTED: 2:42:34 PM 9/21/2018	LAST PRINTED BY: ByronR				WA-2017-007-00	
SUBMITTAL DATE: 08/23/2018					REGION NO. STATE	
DESIGNED BY: A. RADKE	08/23/2018				10	WASH
ENTERED BY: B. RONIA	08/23/2018				JOB NUMBER	
CHECKED BY: A. EWING	08/23/2018				18W121	
MAR PROJ ENGR C. TORRES					CONTRACT NO.	
DIR TERM ENGR: N. MCINTOSH					00****	
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		



08/23/2018
DATE

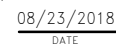


Washington State
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WASHINGTON STATE FERRIES

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
STEEL DETAILS – CLADDING SUPPORT

kpff

SB06.45
SHEET
1185
OF
1521
SHEETS

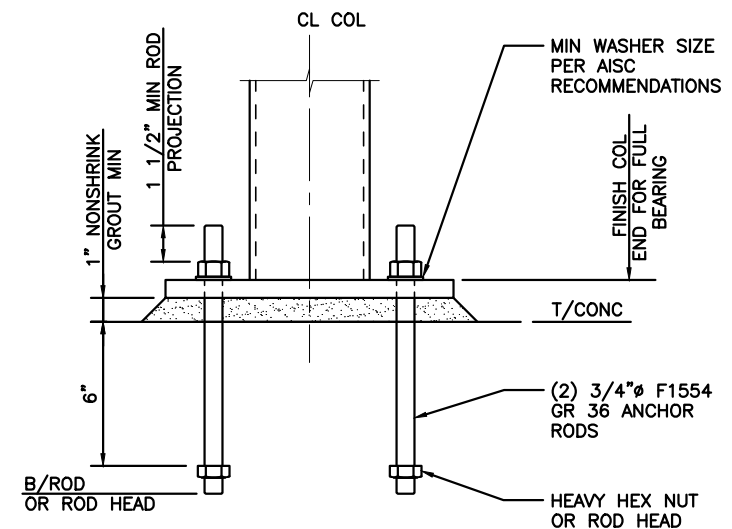
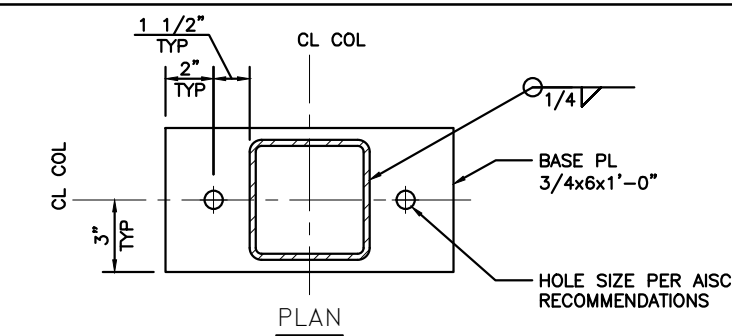
DATE _____

STEEL DETAILS – TOLL PLAZA

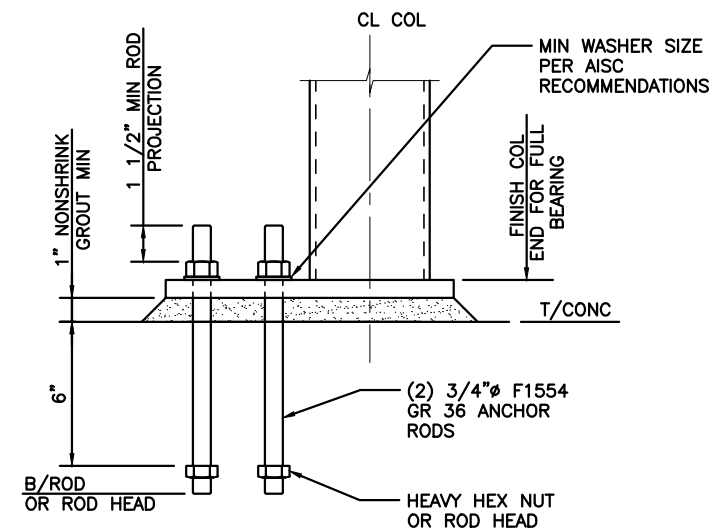
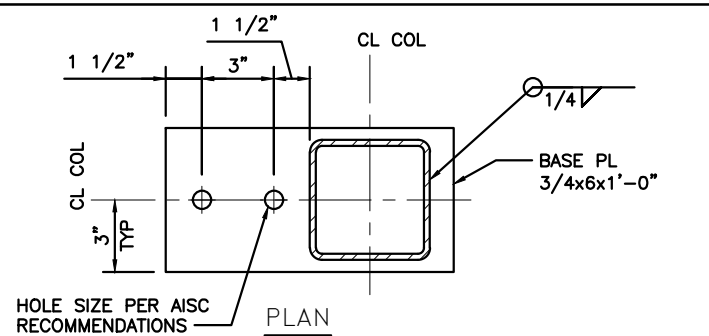
HEET
186
OF
521
HEETS

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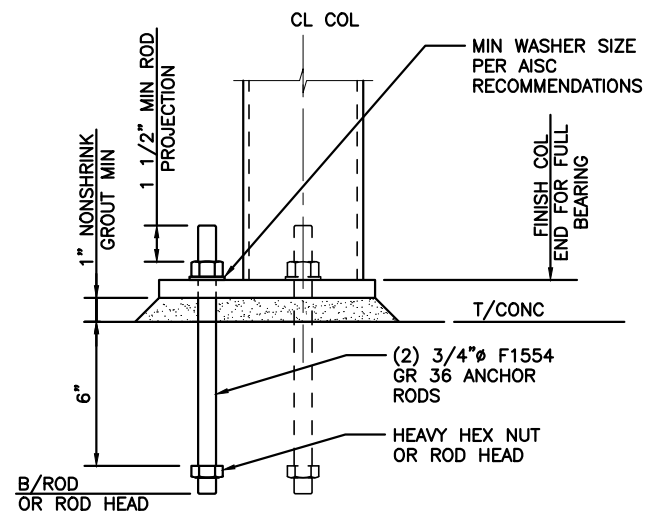
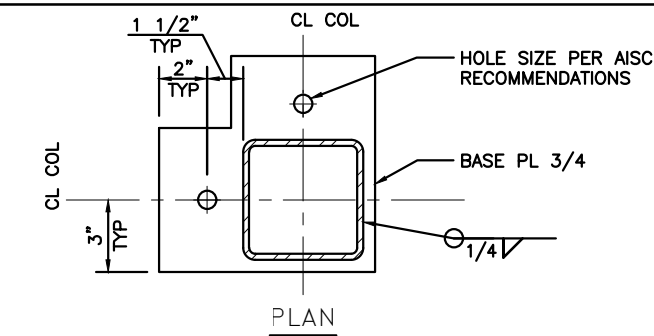
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Plotted: 9/21/18 at 2:42pm By: DianeL



1 BP1 - HSS BASE PL



2 BP2 - HSS BASE PL



3 BP3 - HSS BASE PL

kpff

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DESIGNED BY:	A. RADKE	08/23/2018				REGION NO. STATE	
ENTERED BY:	B. RONIA	08/23/2018				10 WASH	
CHECKED BY:	A. EWING	08/23/2018				JOB NUMBER	
MAR PROJ ENGR	C. TORRES					18W121	
DIR TERM ENGR:	N. MCINTOSH					CONTRACT NO.	
ASST SECRETARY:	A. SCARTON					00****	
		REVISION	DATE	BY			

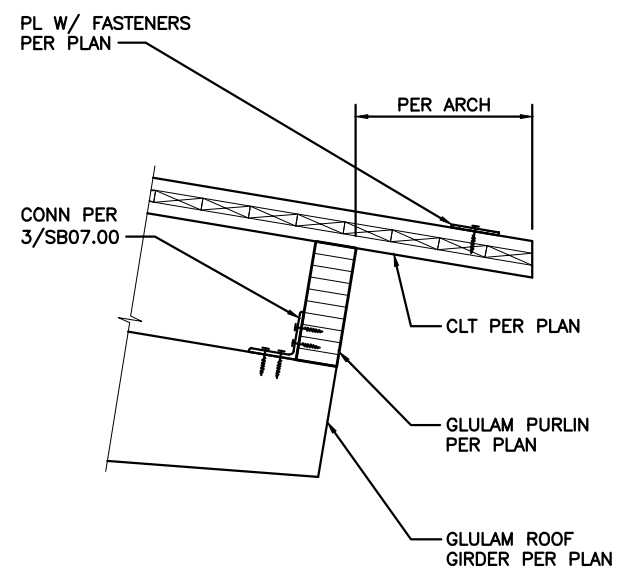


08/23/2018
DATE

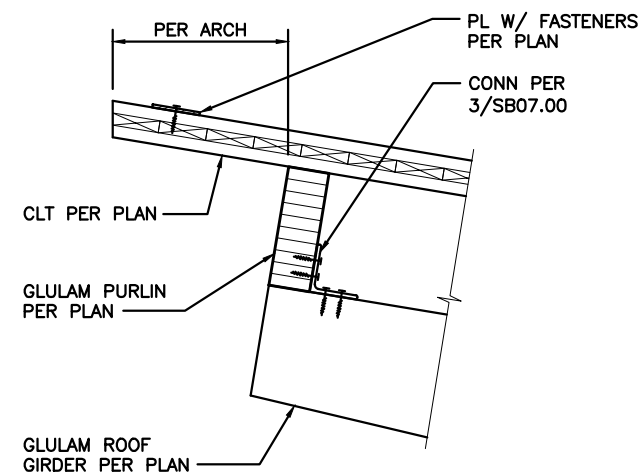


SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
STEEL COLUMN BASE PLATE DETAILS -
TOLL PLAZA

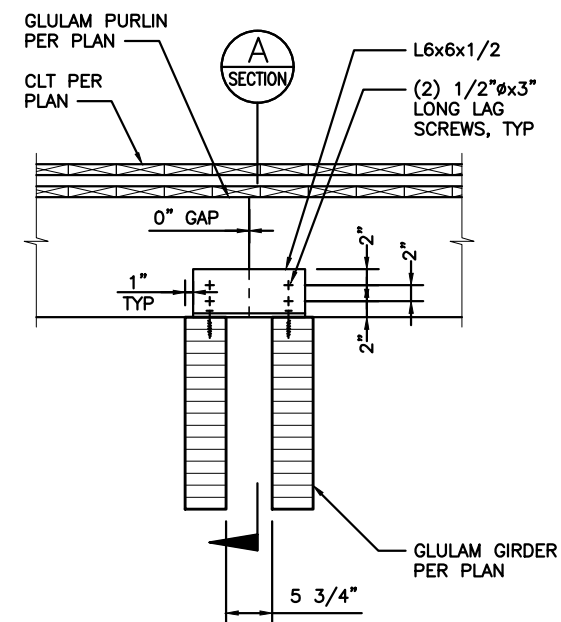
SB06.51
SHEET
1187
OF
1521
SHEETS



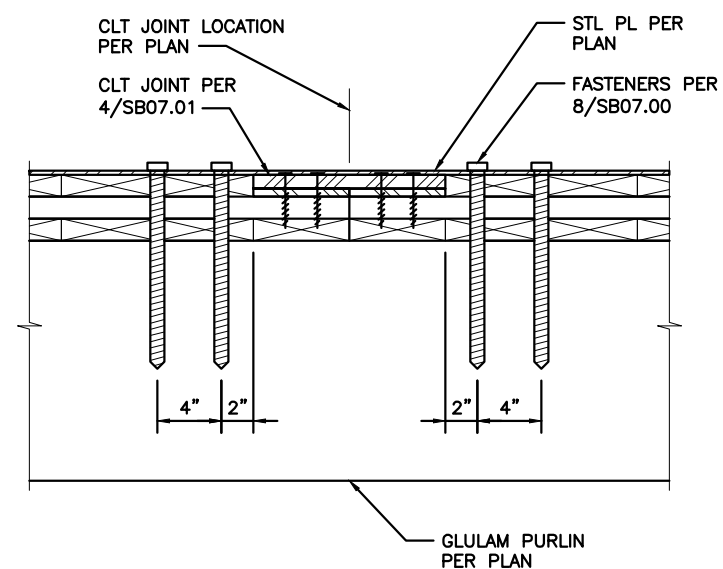
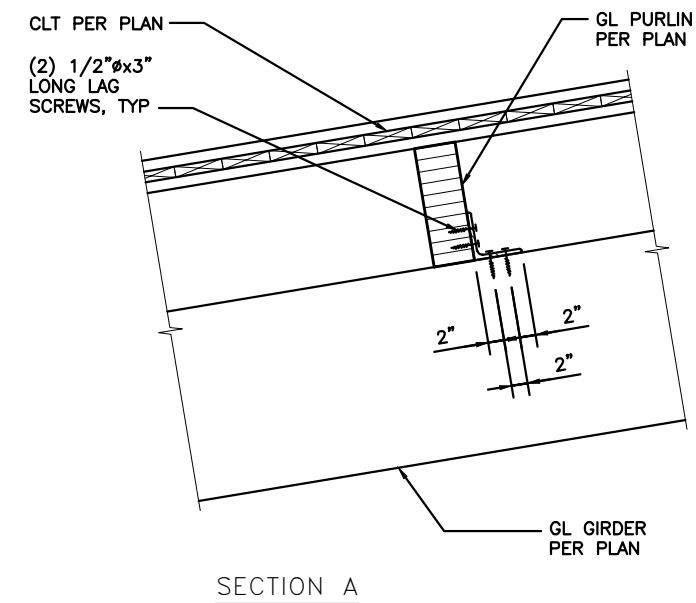
1 TERMINAL BLDG —
SOUTH ROOF EDGE



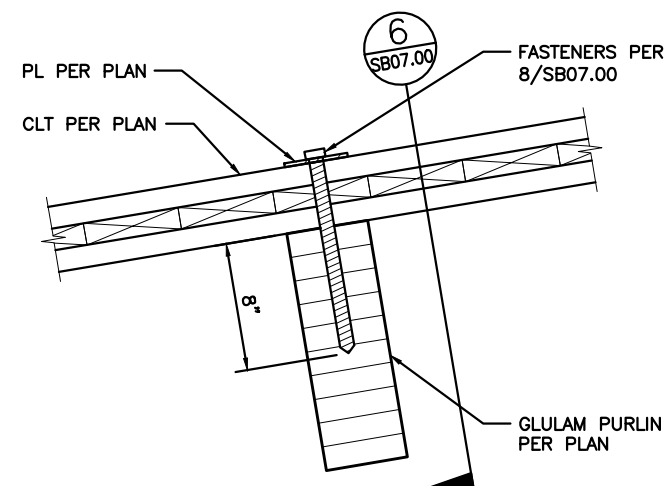
2 TERMINAL BLDG —
NORTH ROOF EDGE



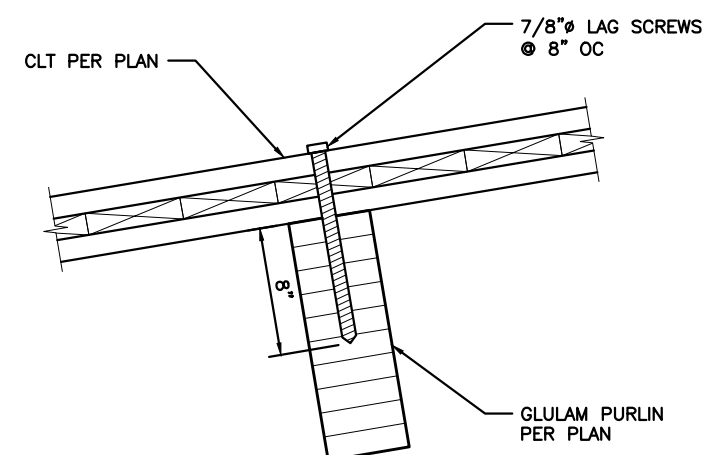
3 GLULAM PURLIN TO GIRDER CONNECTION



6 CLT SPLICE PLATE



7 CLT SPLICE PLATE



CLT – PURLIN
CONNECTION

kpff

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ENTERED BY: B. RONIA		08/23/2018				REGION NO. STATE	
CHECKED BY: A. EWING		08/23/2018					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	



08/23/2018
DATE



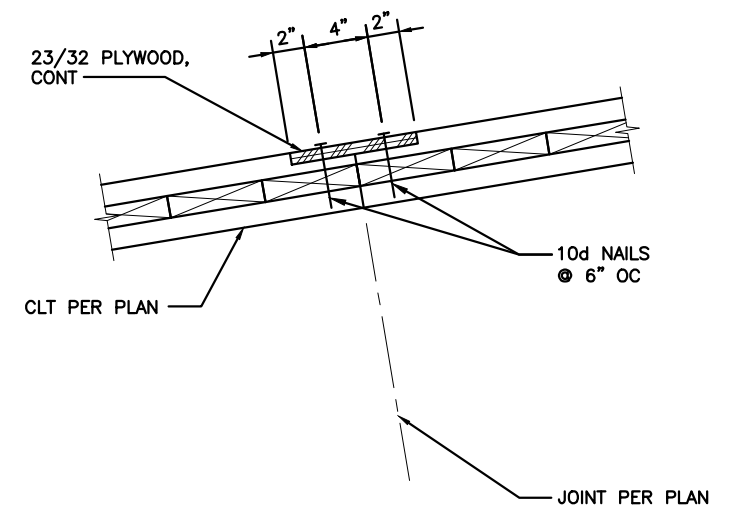
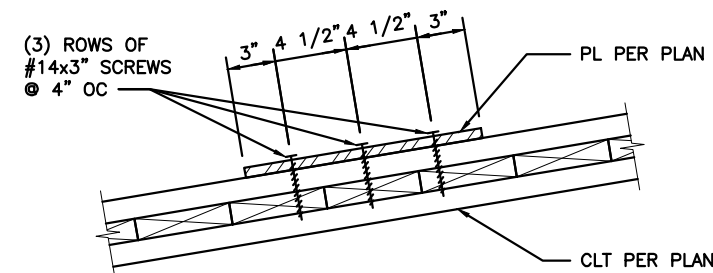
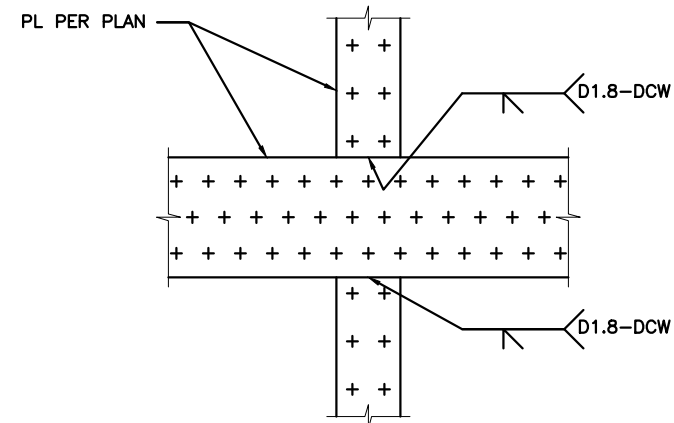
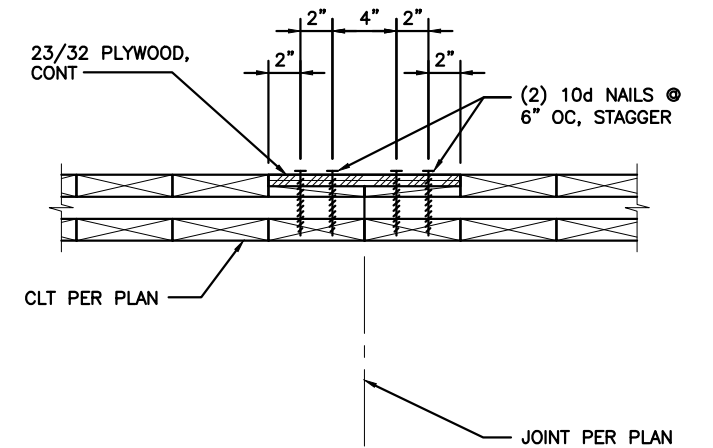
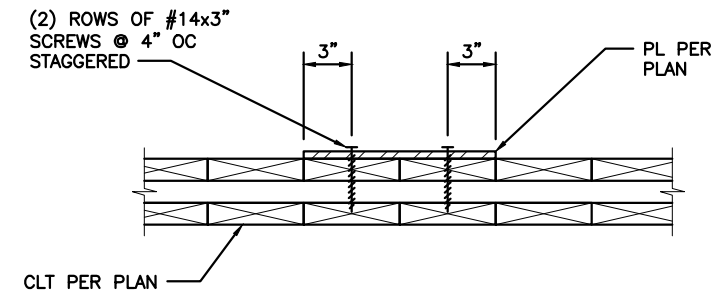
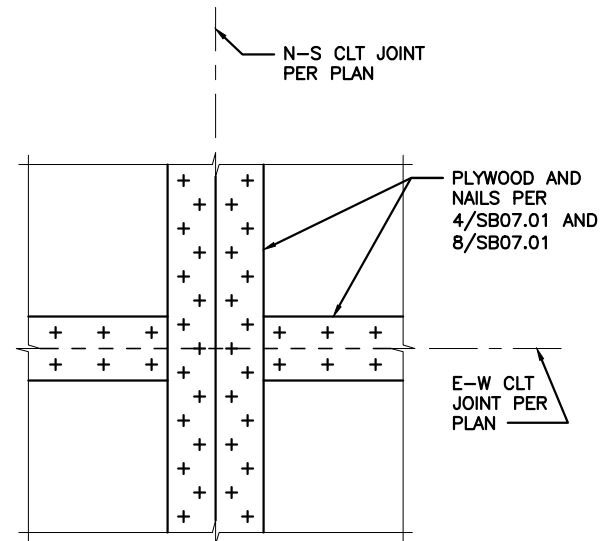
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

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



TYPICAL WOOD DETAILS

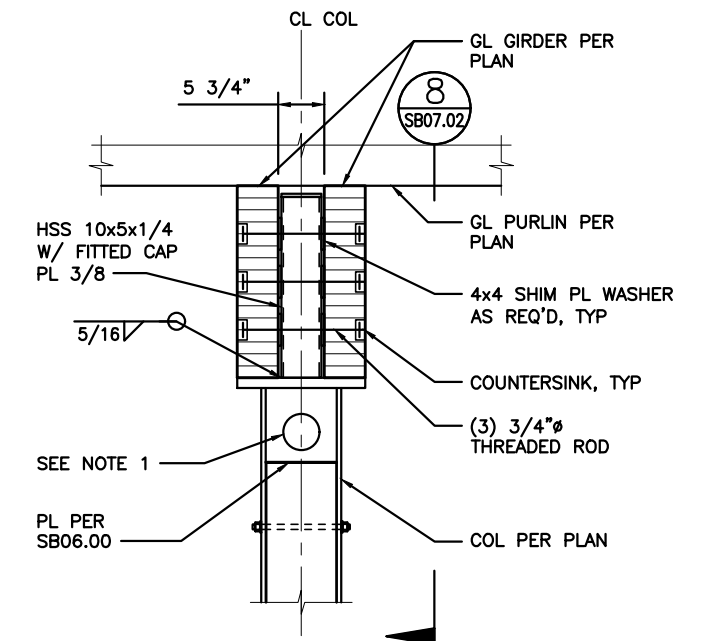
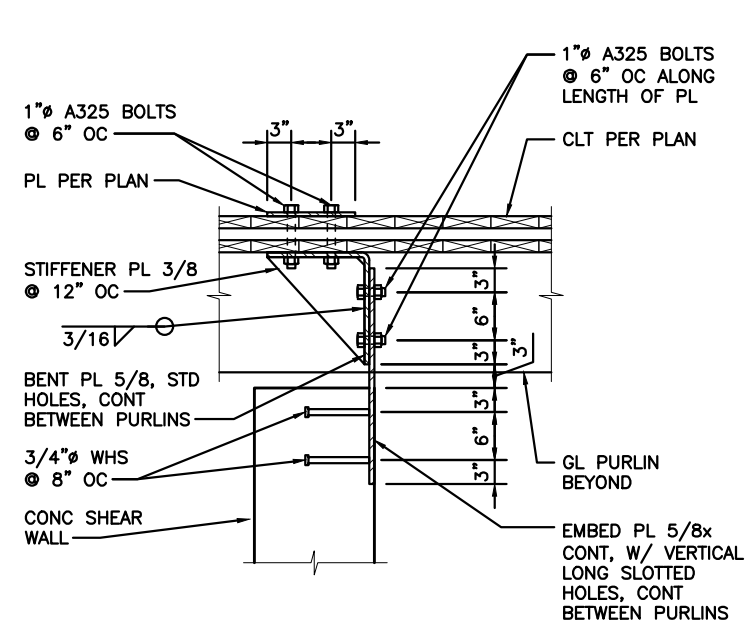
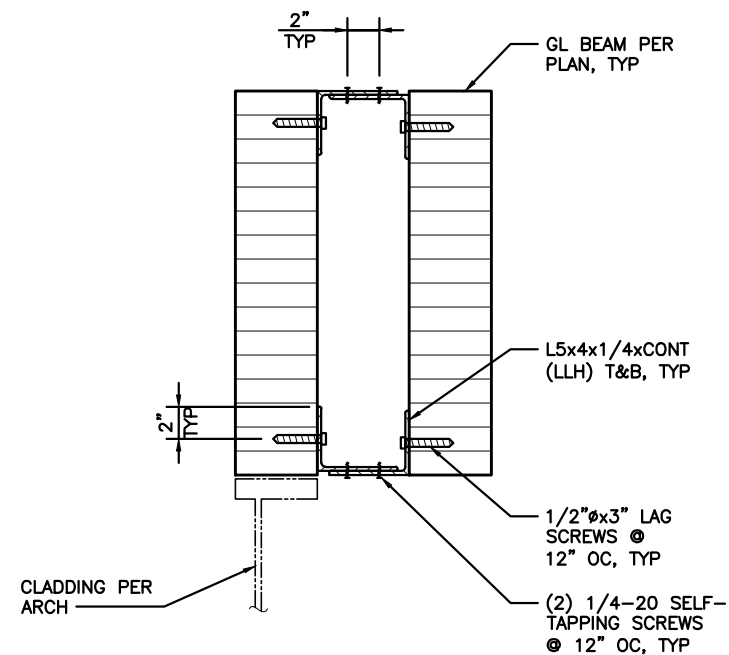
SB07.00

SHEET
1188
OF
1521
SHEETS



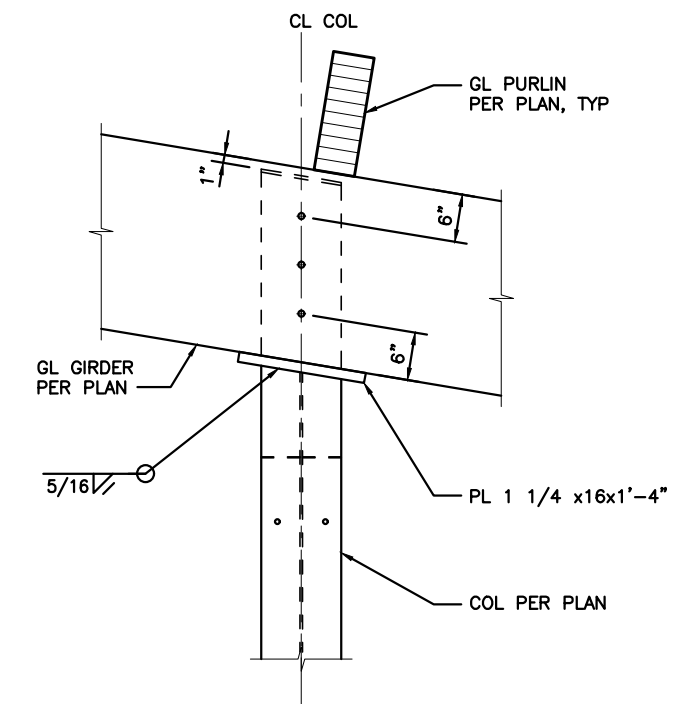
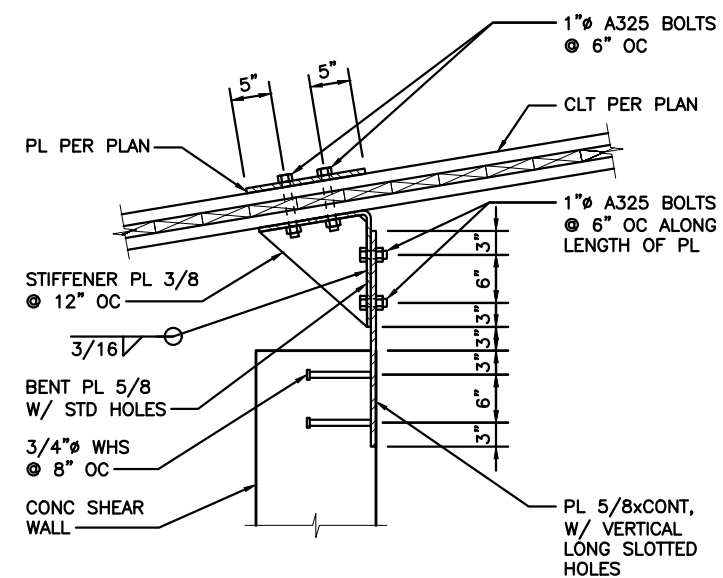
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DESIGNED BY: A. RADKE		08/23/2018		10		WASH		JOB NUMBER		OF	
ENTERED BY: B. RONIA		08/23/2018		18W121		CONTRACT NO.		00****		1521	
CHECKED BY: A. EWING		08/23/2018		DATE		DATE		WOOD DETAILS		SHEETS	
MAR PROJ ENGR C. TORRES											
DIR TERM ENGR: N. MCINTOSH											
ASST SECRETARY: A. SCARTON		REVISION		DATE		BY					



NOTES:

NOTES:
1. SEE 1/SB06.17 FOR DETAILING OF PENETRATIONS AT RAIN LEADERS.



kpff

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CHECKED BY: A. EWING		08/23/2018						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****	



08/23/2018
DATE



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Department of Transportation**
WASHINGTON STATE FERRIES

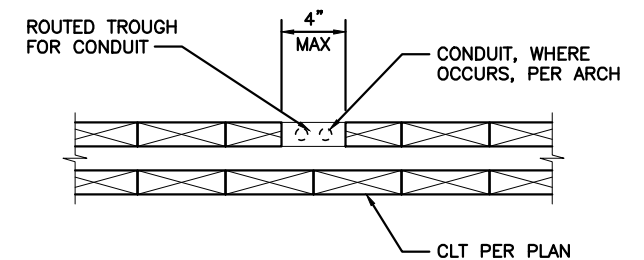
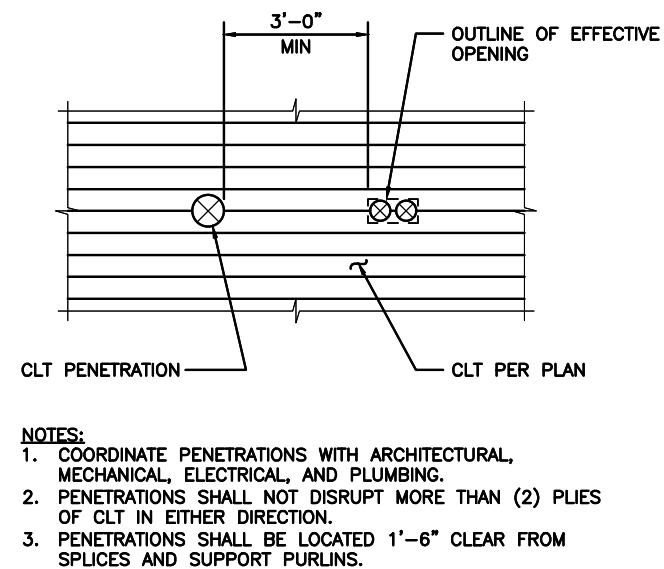
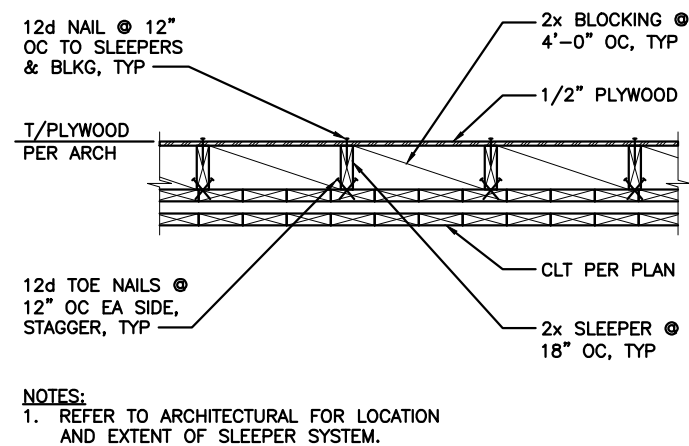
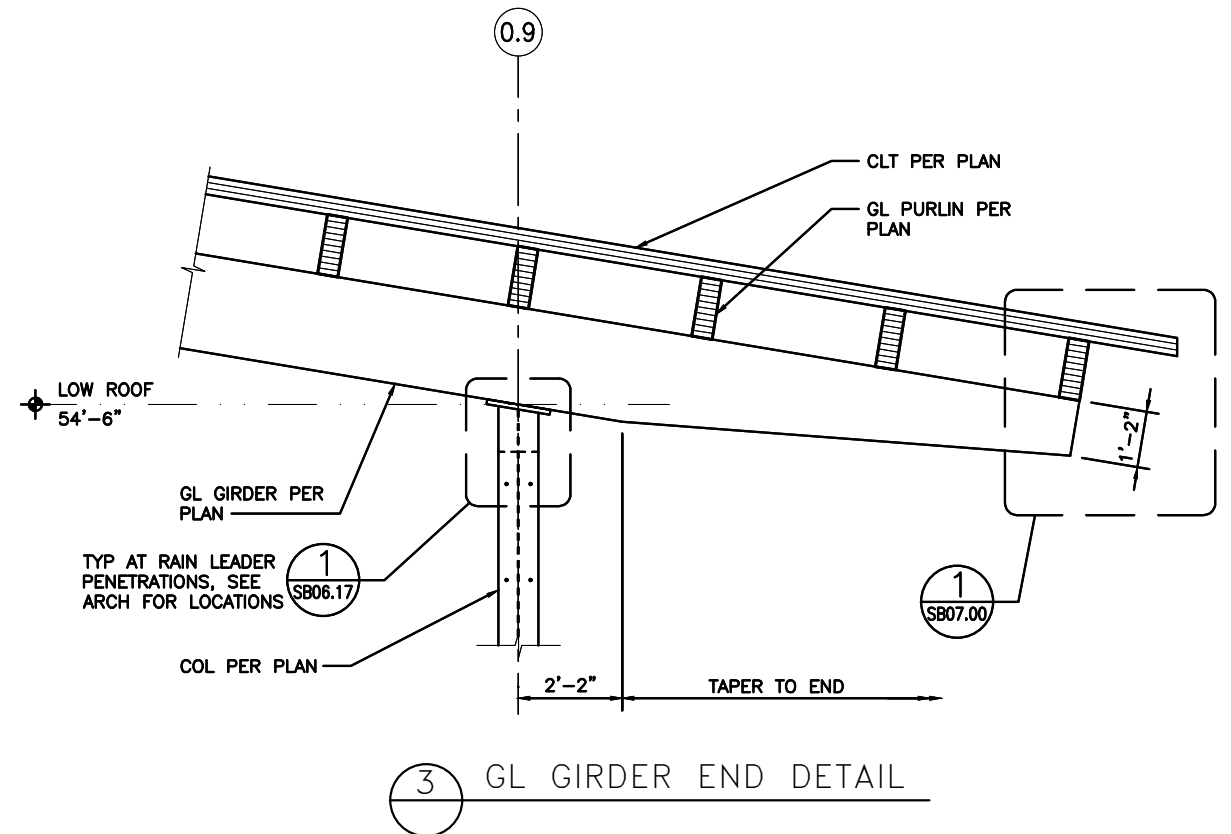
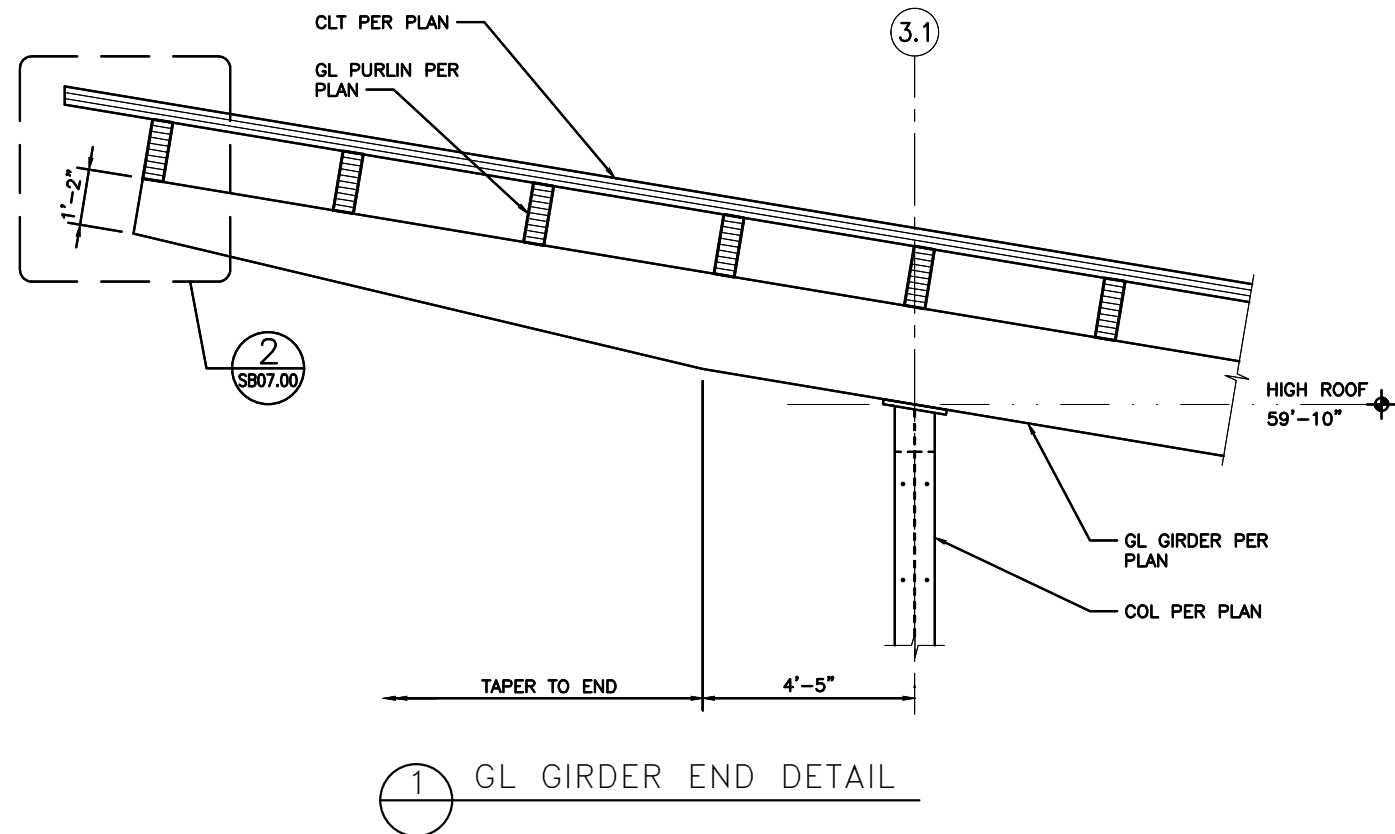
SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

WOOD DETAILS

SB07.02

SHEET
190
OF
1521
SHEETS

File: U:\14000-114350\114177 (Mukilteo Ferry Terminal)\04 Details\14W121SB07_03.dwg
Plotted: 9/21/18 at 2:42pm By: DianeL



6 TYPICAL SLEEPER FRAMING

7 CLT PENETRATION DETAIL

8 CLT CONDUIT TROUGH DETAIL

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FILE NAME:	14W121SB07_03.dwg								
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DESIGNED BY:	A. RADKE	08/23/2018						REGION NO. STATE	
ENTERED BY:	B. RONIA	08/23/2018						10 WASH	
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MAR PROJ ENGR	C. TORRES							18W121	
DIR TERM ENGR:	N. MCINTOSH							CONTRACT NO.	
ASST SECRETARY:	A. SCARTON							00****	
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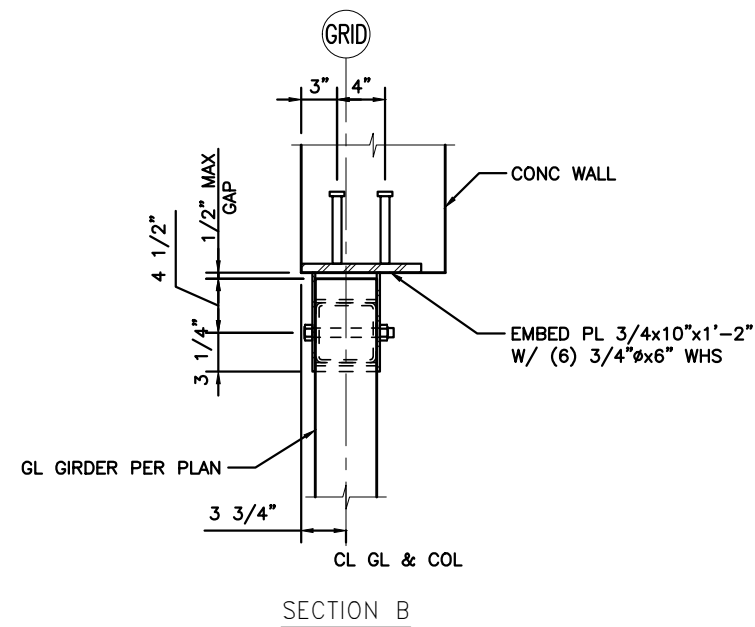
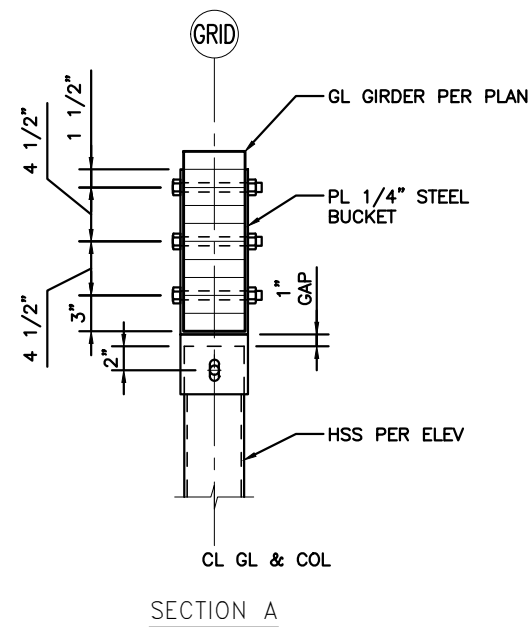
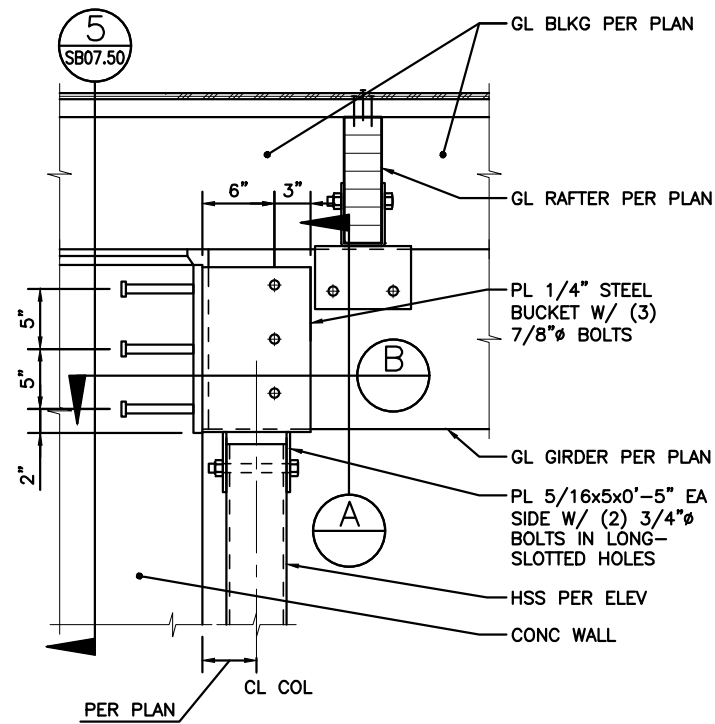


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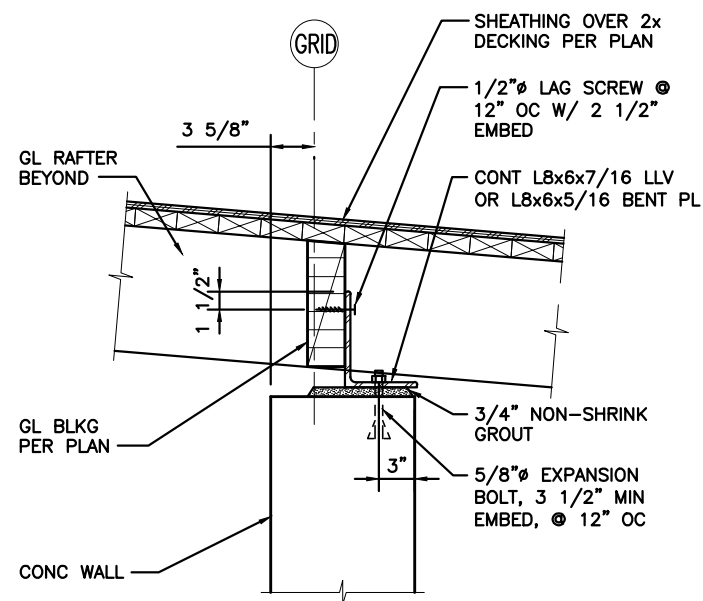


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MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
TYPICAL WOOD DETAILS

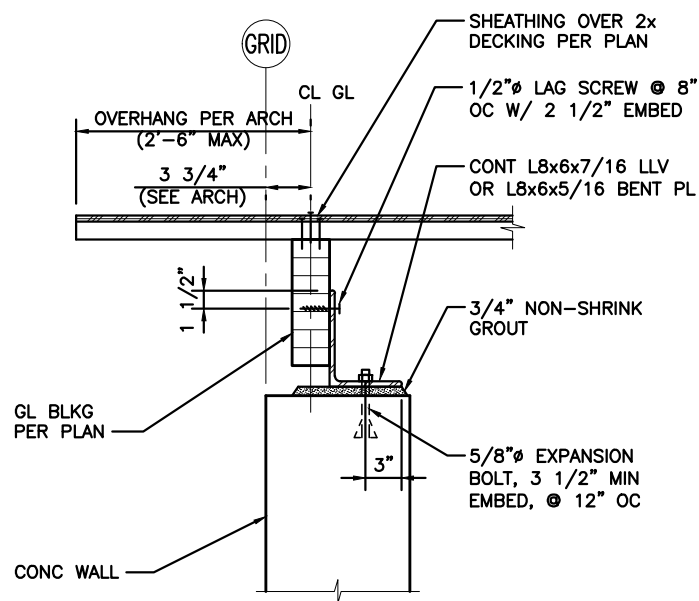
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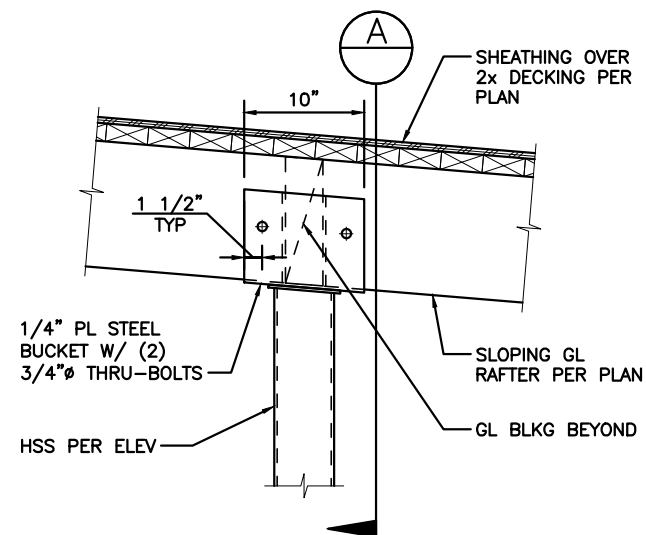
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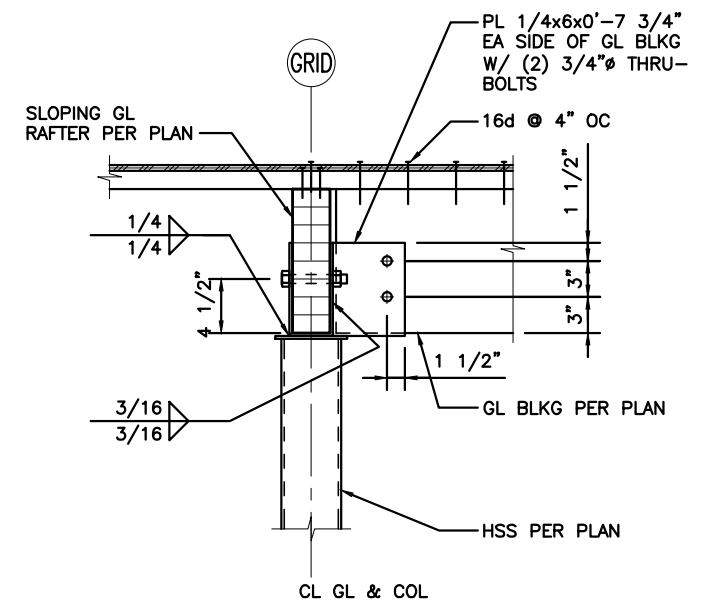
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6 SECTION AT ROOF



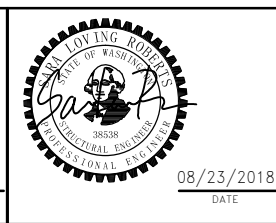
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SECTION A

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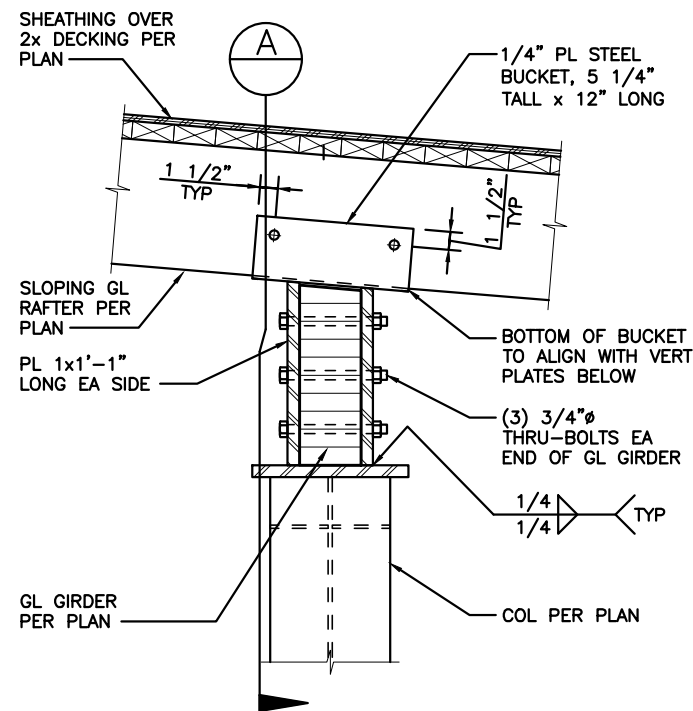


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MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION
WOOD DETAILS – TOLL PLAZA

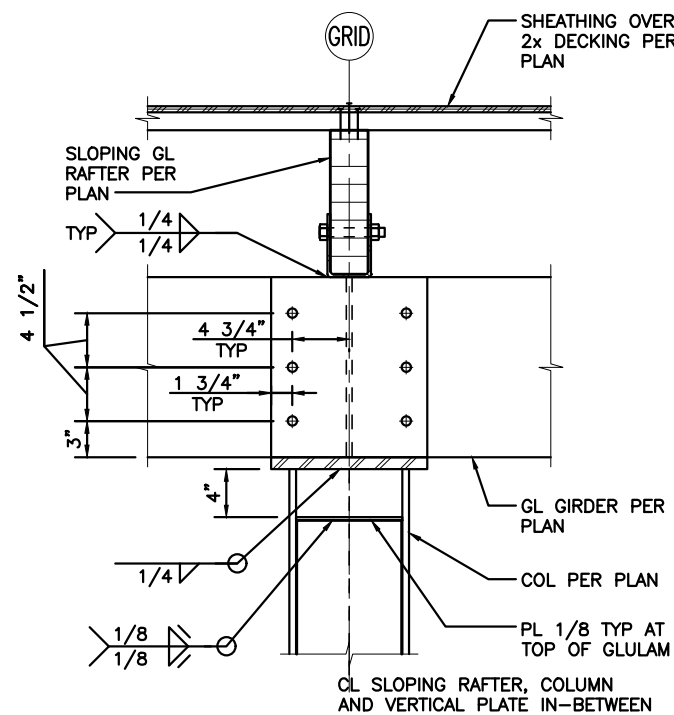
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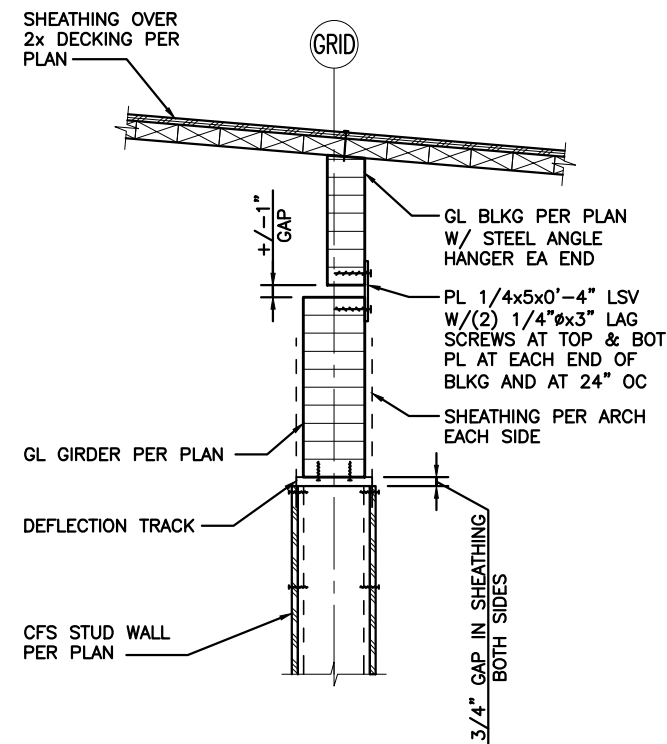
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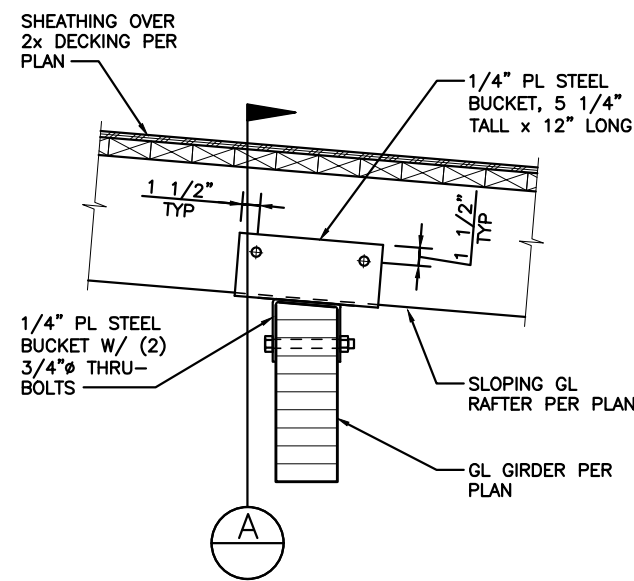
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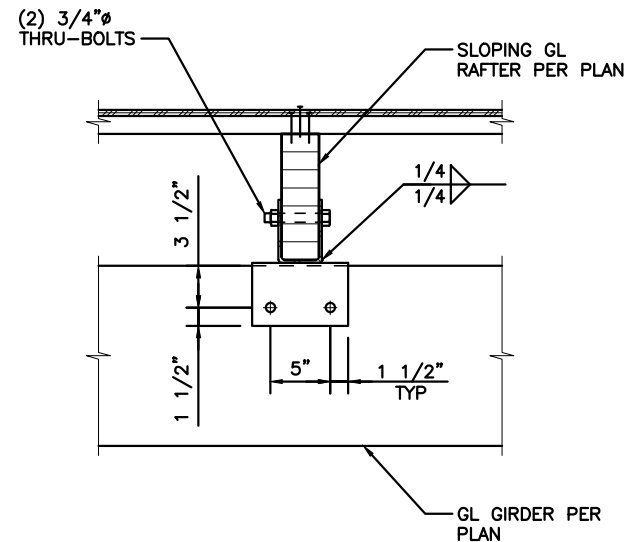
SECTION A



3 SECTION AT ROOF



5 SECTION AT ROOF



SECTION A

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DIR TERM ENGR: N. MCINTOSH			JOB NUMBER
ASST SECRETARY: A. SCARTON			18W121
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FERRY TERMINAL CONSTRUCTION
WOOD DETAILS – TOLL PLAZA

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5 DECKING OVERHANG DETAIL

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CHECKED BY: A. EWING				08/23/2018				10 WASH	
MAR PROJ ENGR C. TORRES								JOB NUMBER	
DIR TERM ENGR: N. MCINTOSH								18W121	
ASST SECRETARY: A. SCARTON						REVISION		DATE BY	
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MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

WOOD DETAILS – TOLL PLAZA

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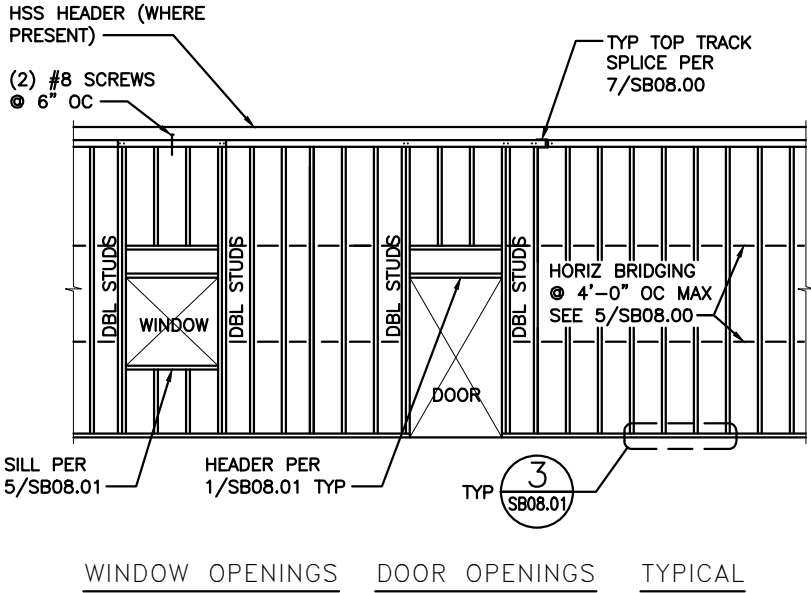
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SHEAR WALL SCHEDULE (2015 IBC)								
WALL TYPE	SHEATHING TYPE	MINIMUM STUD THICKNESS	TOP AND BOTTOM TRACK	SHEATHING FASTENER	SCREW SPACING AT PANEL EDGES	TOP AND BOTTOM TRACK ATTACHMENT		SHEAR CAPACITY (PLF)
SM-4	0.027" SHEET STEEL	S162-43	T200-54	#8	4" OC	#8 @ 6" OC	PER 8/SB08.00 & 3/SB08.01	400
SW-4	15/32" WOOD SHTG	S162-43	T200-54	#8	4" OC	#8 @ 6" OC	PER 8/SB08.00	532

NOTES:

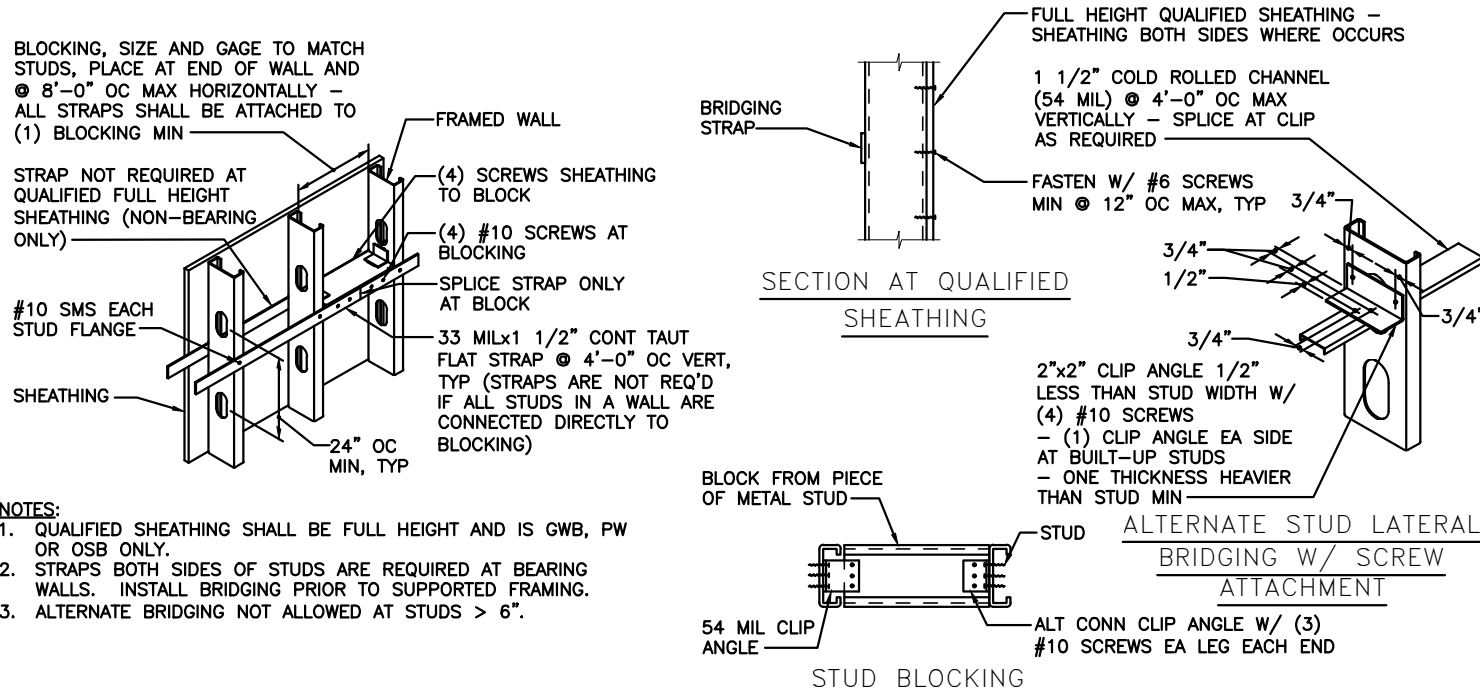
1. PROVIDE BRIDGING AT ALL SHEAR WALLS PER 4/SB08.01, PROVIDE BRIDGING ANCHORAGE PER 5/SB08.00.
2. FOR STUD ATTACHMENT TO TOP AND BOTTOM TRACK REFERENCE 7/SB08.00.
3. STUD AND TRACK THICKNESS MAY BE GOVERNED BY BEARING WALL REQUIREMENTS. REFERENCE PLAN NOTES FOR BEARING WALL INFORMATION.
4. PROVIDE FASTENERS @ 12" OC ALONG INTERMEDIATE FRAMING MEMBERS.
5. FOR BOTTOM TRACK DETAIL, REFERENCE 8/SB08.00 AND 3/SB08.01.
6. SHEAR CAPACITY VALUES ARE ASD VALUES FOR SEISMIC AND WIND.
7. AT HSS MEMBERS, USE 1/4-20 SCREWS IN LIEU OF #8 SCREWS, WITH SAME SPACING AS FOR #8 SCREWS.



STUD WALL SCHEDULE			
USE	STUD DESIGNATION	SPACING	MAX HT
INTERIOR	600S162-43	16" OC	12'-0"
INTERIOR	600S162-54	16" OC	19'-6"
EXTERIOR	600S162-54	16" OC	12'-0"

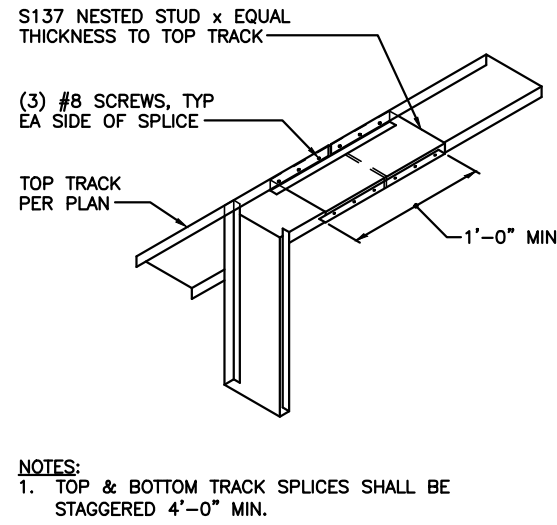
- NOTES:
- REF ARCH FOR LOCATION AND WALL THICKNESS.
 - TOP & BOT TRACKS SHALL BE 54 MIL MIN THICKNESS W/ 1 1/2" MIN LEGS.
 - PLACE DOUBLE STUDS BOXED, UNO.

1 COLD-FORMED SHEAR WALL SCHEDULE



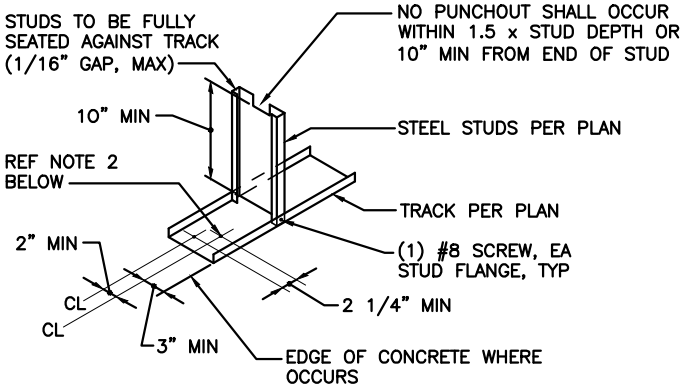
5 TYPICAL COLD-FORMED STEEL STUD BRIDGING

3 TYPICAL COLD-FORMED STUD WALL ELEVATIONS



- NOTES:
- TOP & BOTTOM TRACK SPLICES SHALL BE STAGGERED 4'-0" MIN.

7 TYPICAL TRACK SPLICE



- NOTES:
- THIS DETAIL APPLIES TO TOP AND BOTTOM TRACKS OF ALL STRUCTURAL STEEL STUD WALLS, UNO.
 - UNLESS NOTED OTHERWISE ON SHEAR WALL SCHEDULE:
 - AT TRACK TO TRACK, ATTACH W/ (2) #10 SCREWS @ 12" OC.
 - AT STRUCTURAL STEEL, ATTACH TRACK W/ (2) 0.145 DIAMETER PAF @ 6" OC.
 - AT CONCRETE, ATTACH TRACK W/ (2) 0.145 DIAMETER PAF @ 12" OC W/ 3/4" EMBED.

8 TYPICAL BOTTOM TRACK CONNECTION

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



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1 TYPICAL COLD-FORMED HEADER

TYPICAL BOX HEADER JAMB CONNECTION

3 TYPICAL SHEAR WALL TO CONCRETE SLAB CONNECTION

4 TYPICAL COLD-FORMED
SHEAR WALL FASTENING

INTERIOR WALL CORNER

TYPICAL SILL

TYPICAL SILL JAMB CONNECTION

EXTERIOR WALL CORNER

7 TYPICAL SHEAR WALL CORNER

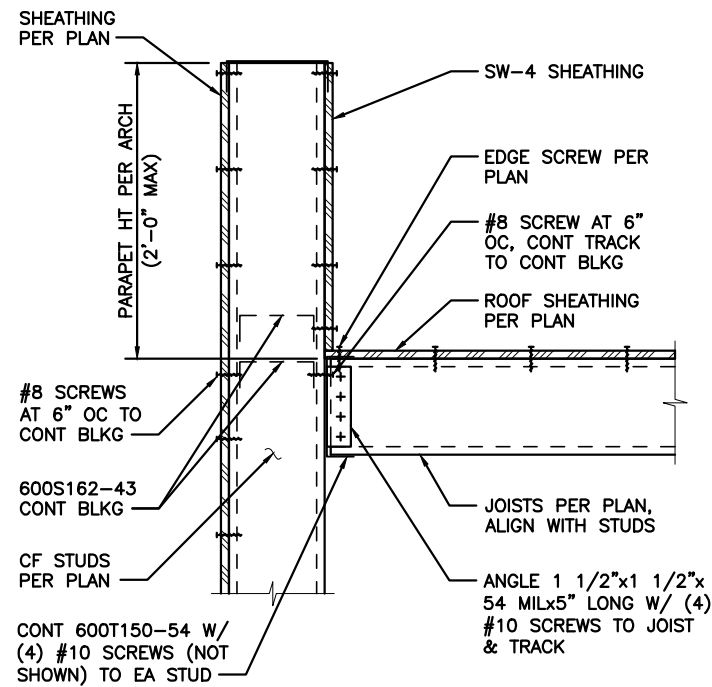
8 TYPICAL HOLD DOWN

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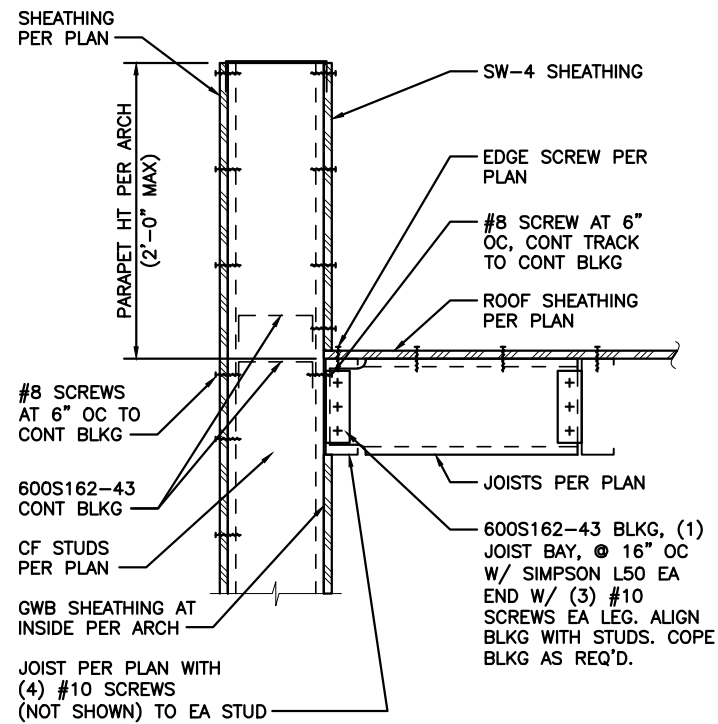
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MAR PROJ ENGR C. TORRES						10 WASH
DIR TERM ENGR: N. MCINTOSH						JOB NUMBER
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		REVISION		DATE	BY	CONTRACT NO.
						00****

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		CFS DETAILS	1521 SHEETS

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Plotted: 9/21/18 at 2:43pm By: DianeL



SECTION AT ROOF -
1 JOISTS PERPENDICULAR



SECTION AT ROOF -
2 JOISTS PARALLEL

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ENTERED BY:	B. RONIA	08/23/2018			JOB NUMBER	
CHECKED BY:	A. EWING	08/23/2018			18W121	
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DIR TERM ENGR:	N. MCINTOSH				00****	
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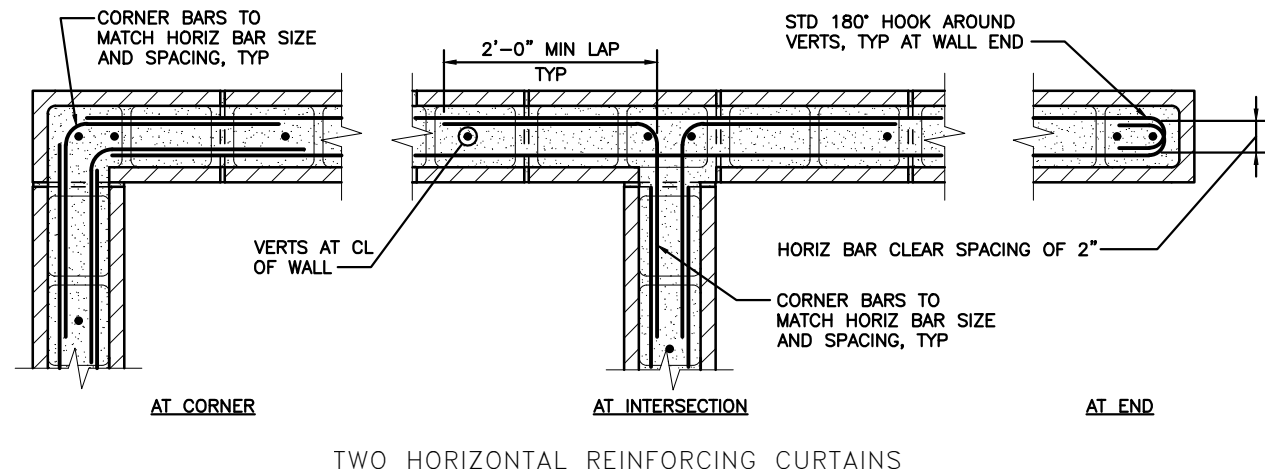
SR 525
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FERRY TERMINAL CONSTRUCTION

CFS DETAILS - TOLL PLAZA

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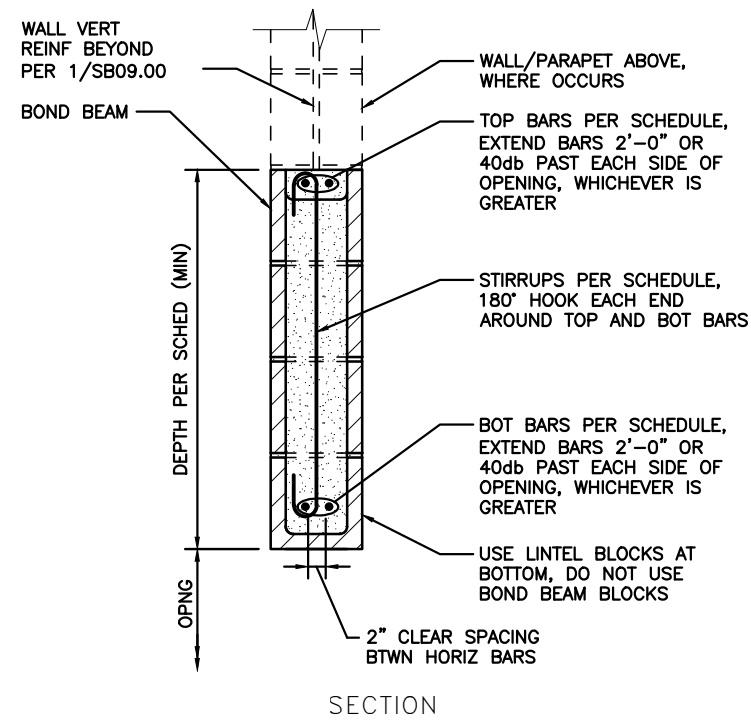
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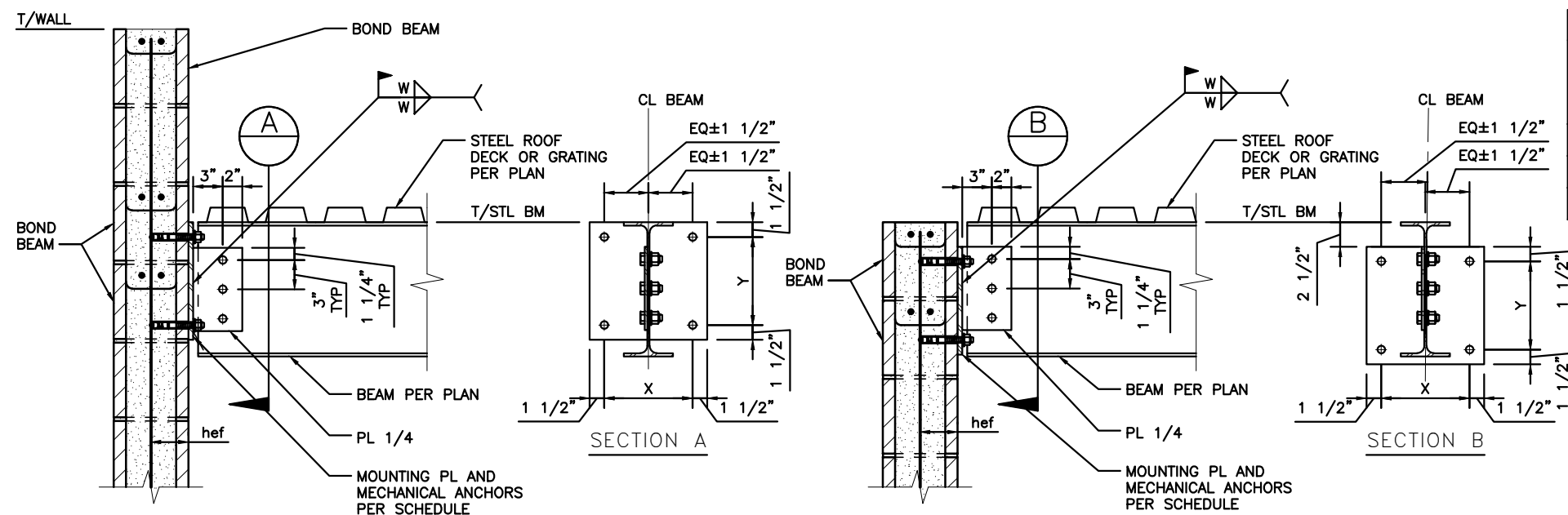
NOTES:
1. COORDINATE REINFORCING WITH CONTROL JOINT LOCATIONS PER 1/SB09.02.

1 TYPICAL CMU WALL REINFORCEMENT - PLAN



CMU LINTEL BEAM SCHEDULE				
MIN DEPTH	TOP BARS	BOT BARS	STIRRUPS	REMARKS
16"	(2) #5	(2) #5	#4 @ 8" OC	MAX SPAN 6'-0"
24"	(2) #5	(2) #5	#4 @ 8" OC	MAX SPAN 8'-0"

3 TYPICAL CMU LINTEL BEAM



MOUNTING PLATE CONNECTION SCHEDULE									
TYPE	NUMBER OF BOLTS TO BEAM	MOUNTING PLATE SIZE	NUMBER OF HORIZONTAL ROWS OF MECHANICAL ANCHORS	MECHANICAL ANCHOR DIAMETER	MECHANICAL ANCHOR SPACING		h ef	W	MIN NOMINAL WALL THICKNESS
					X	Y			
2ME	2	PL 3/8x11x0'-11"	2	3/4"	8"	8"	4"	3/16"	8"
2ME-3	2	PL 3/8x11x1'-7"	3	3/4"	8"	8"	4"	3/16"	8"
3ME	3	PL 3/8x11x1'-7"	3	3/4"	8"	8"	4"	3/16"	8"

NOTES:
1. BOLT DIAMETER TO BE SAME AS SHOWN ON STANDARD BOLTED BEAM CONNECTION, 5/SB06.04.
2. HORIZONTALLY SHORT SLOT BOLT HOLES IN THE BEAM WEB. BOLTS SHALL BE SLIP CRITICAL.
3. MECHANICAL ANCHORS SHALL BE PLACED 1 1/2" MINIMUM CLEAR OF HEAD JOINTS.

5 TYPICAL STEEL BEAM TO WALL CONNECTION

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DIR TERM ENGR:	N. MCINTOSH				
ASST SECRETARY:	A. SCARTON				
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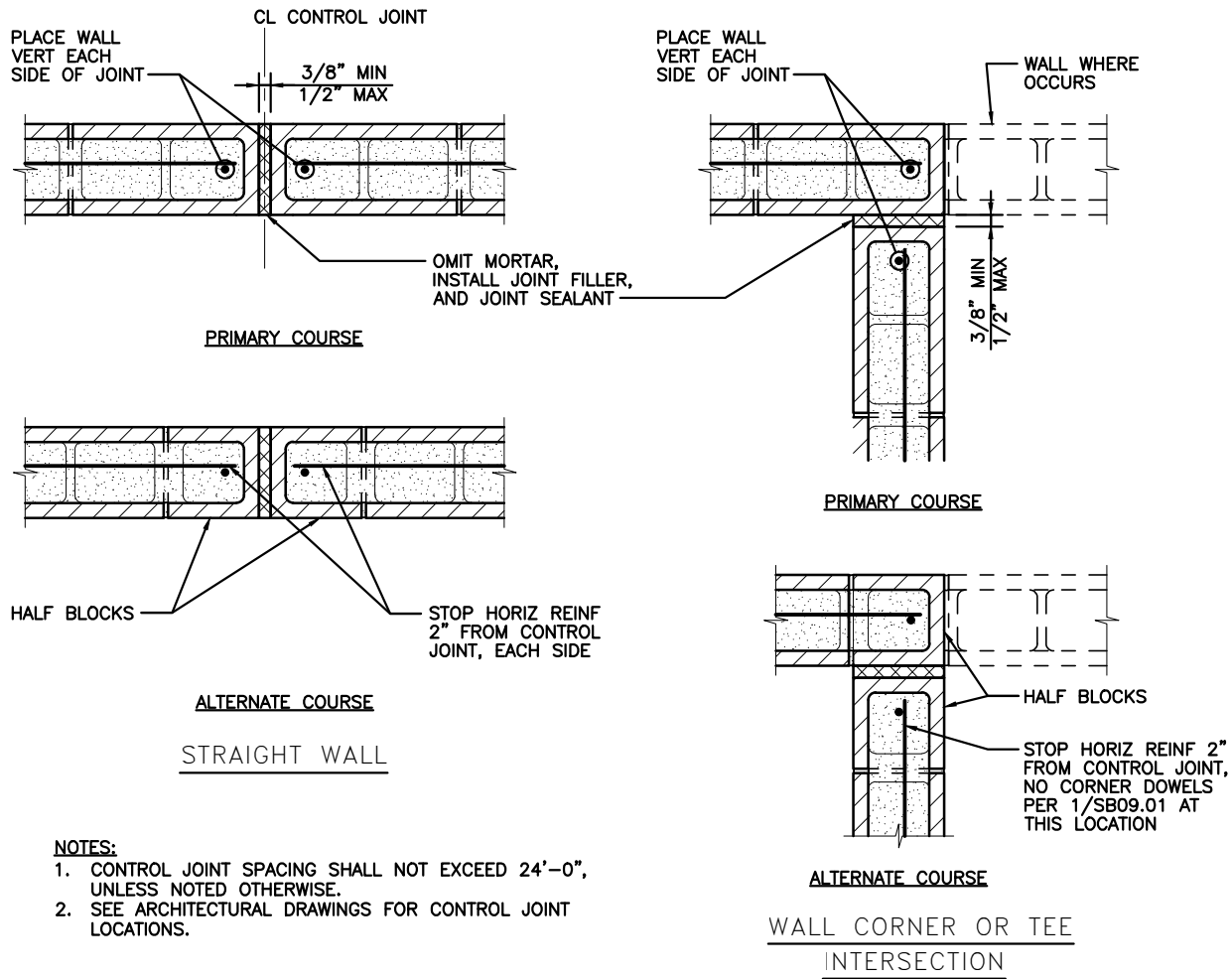
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SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION
TYPICAL CMU DETAILS

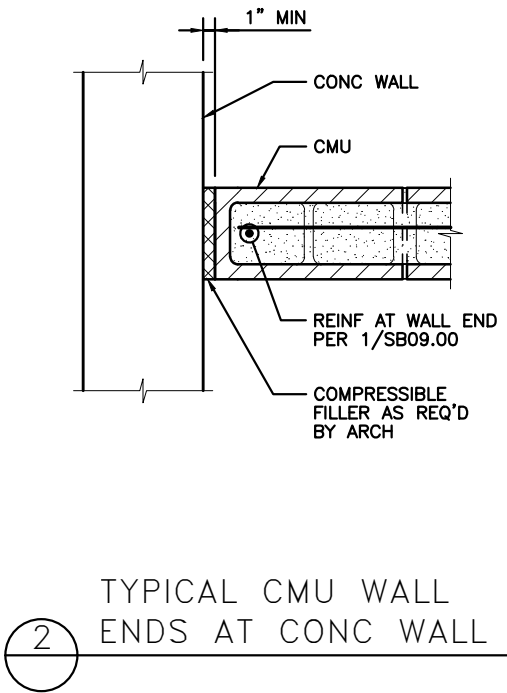
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- NOTES:
1. CONTROL JOINT SPACING SHALL NOT EXCEED 24'-0", UNLESS NOTED OTHERWISE.
 2. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.

1 TYPICAL MASONRY CONTROL JOINT



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