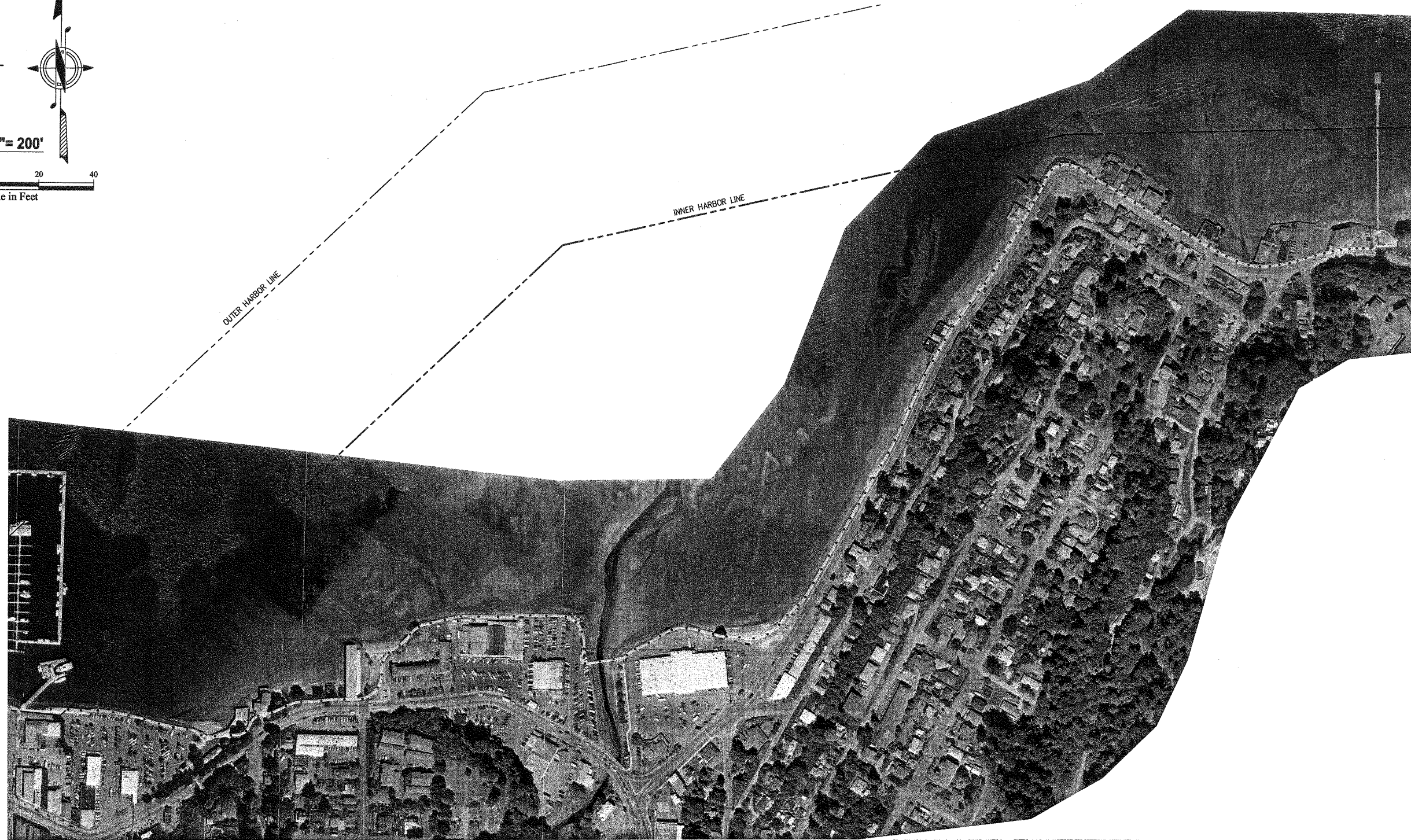
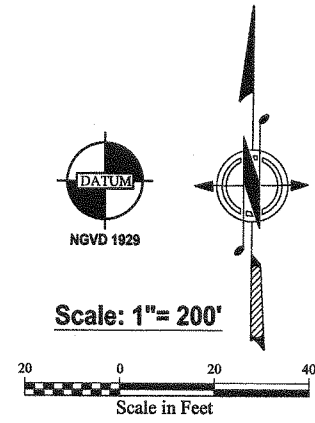
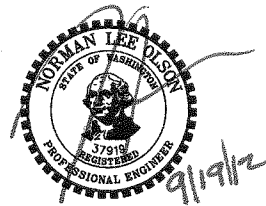


# City of Port Orchard Pedestrian Enhancement Project Mosquito Fleet Trail



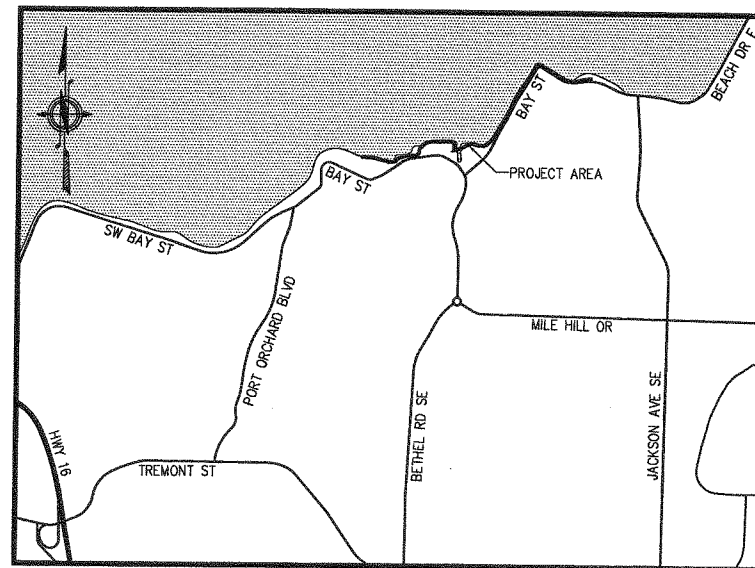
 **N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



FOR: **City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

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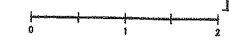
**VICINITY MAP**  
SEC. 26, TWP. 24, R. 1E

**Abbreviations**

A	ACRE	GALV	CALVANIZED	SF	SQUARE FEET
AC	ASPHALT CONCRETE, ACRE	CV	GATE VALVE	SM	SOLID METAL
ACS	ADVANCEO DRAINAGE SYSTEMS INC.	H	HEIGHT, HEAD, HORIZONTAL	SO	SOUTH
AF	AUDITORS FILE	HD	HEAD	SPEC	SPECIFICATION
ALT	ALTERNATIVE	HDPE	HIGH DENSITY POLYETHYLENE	SQ FT	SQUARE FEET
APN	AUDITORS PARCEL NUMBER	HMA	HOT MIX ASPHALT	SQ INS	SQUARE INCHES
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	HWY	HIGHWAY	SR	STATE ROUTE
APPROX	APPROXIMATE	ID	INSIDE DIAMETER	SSCO	SANITARY SEWER CLEAN OUT
ASSHTO	AMERICAN SOCIETY OF HIGHWAY & TRANSPORTATION OFFICIALS	IE	INVERT ELEVATION	SSFM	SANITARY SEWER FORCE MAIN
ASTM	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS	INFO	INFORMATION	SSMH	SANITARY SEWER MAN HOLE
ATB	AMERICAN SOCIETY FOR TESTING & MATERIALS	IWS	INTERNATIONAL WEIGHTS & STANDARDS	SS	SANITARY SEWER, STAINLESS STEEL
ATTN	ATTENTION	L	LINE, LENGTH	ST	STREET
AVE	AVENUE	LBS	POUNDS	STA	STATION
BC	BOTTOM OF CURB	LF	LINEAR FEET	STD	STANDARD
BH	BEEHIVE	LT	LEFT	SW	SOUTH WEST
BLVO	BOULEVARD	MAX	MAXIMUM	T	TELEPHONE
BMP	BEST MANAGEMENT PRACTICES	MECH	MECHANICAL	TB	TIE BACK
BOT	BOTTOM	MH	MANHOLE	Tc	TIME OF CONCENTRATION
BOW	BACK OF WALK, BOTTOM OF EXPOSED WALL	MIN	MINIMUM	TC	TOP OF CURB
BW	BOTTOM OF EXPOSED WALL	MISC	MISCELLANEOUS	TE	TOP ELEVATION
C	CURVE	MJ	MECHANICAL JOINT	TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
CCB	CEMENT CONCRETE PIPE	N	NORTH	TP	TOP OF PAVEMENT
CB	CATCH BASIN	NE	NORTHEAST	TW	TOP OF EXPOSED WALL
CFM	CUBIC FEET PER MINUTE	N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM	TYP	TYPICAL
CFS	CUBIC FEET PER SECOND	NTS	NOT TO SCALE	V	VERTICAL
CL	CENTER LINE, CLASS	NO	NUMBER	VB	VERTICAL BLOCK, VERTICAL BEND
CMP	CORRUGATED METAL PIPE	NOM	NOMINAL	W	WOTH, WITH, WATER, WEST
CN	CURVE NUMBER	NPOES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	W/	WITH
CO	CLEAN OUT, COUNTY	NW	NORTHWEST	WAC	WASHINGTON ADMINISTRATIVE CODE
COMM	COMMUNICATIONS	O.C.	ON CENTER	WASHA	WASHINGTON INDUSTRIAL SAFETY AND HEALTH ADMINISTRATION
CONC	CONCRETE	OD	OUTSIDE DIAMETER	WS	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
CS	CAST STEEL	OFCD	OLYMPIC FOUNDARY COMPANY	WS.D.O.T.	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
CSBC	CRUSHED STONE BASE COURSE	P	POWER		
C.S.T.C.	CRUSHED SURFACING TOP COURSE	PC	POINT OF CURVATURE		
CU FT	CUBIC FEET	PCC	POINT OF COMPILING CURVATURE		
DEC	DECIDUOUS, DEVELOPER'S EXTENSION CONTRACT	PG	PERFORMANCE GRADING, PAGE		
DEPT	DEPARTMENT	PH	PHASE, PHONE		
DI	DUCTILE IRON	PIV	POST INDICATOR VALVE		
OIA	DIAMETER	PL	PROPERTY LINE		
E	EAST	PPM	PARTS PER MILLION		
EA	EACH	PRC	POINT OF REVERSE CURVATURE		
EL	ELEVATION	PSF	POUNDS PER SQUARE FEET		
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH		
ELEV	ELEVATION	PT	POINT OF TANGENCY		
EQ	EQUIVALENT	PVC	POLYVINYL CHLORIDE PIPE		
ETC	ETCETERA	R	RADIUS		
EX	EXISTING	RO	ROOF DRAIN, ROAD		
FDC	FIRE DEPARTMENT CONNECTION	REQ'D	REQUIRED		
FD	FOUNDATION DRAIN, FIRE DEPARTMENT	R.O.W.	RIGHT OF WAY		
FOY	FOUNDRY	RT	RIGHT		
FF	FINISHED FLOOR	S	SOUTH		
FL	FLOWLINE, FLANGE	SO	STORM DRAIN		
FM	FORCE MAIN	SDAP	SITE DEVELOPMENT ACTIVITY PERMIT		
FT	FEET	SDCO	STORM DRAIN CLEAN OUT		
GA	GALVE, GALVANIZED	SDMH	STORM DRAIN MANHOLE		
GAL	GALLON	SEO	SEDIMENT		
		SE	SOUTH EAST		

**Legend**

10	EXISTING GROUND CONTOUR (1' INTERVALS)
x10.25	EXISTING GROUND SPOT ELEVATION.
[Symbol]	EXISTING CONCRETE SURFACE
[Symbol]	EXISTING ASPHALT PAVED SURFACE
[Symbol]	EXISTING ROCK PROTECTED SLOPE
[Symbol]	EXISTING ROCK RETAINING WALL
[Symbol]	EXISTING STORM DRAIN MANHOLE (TYPE II)
[Symbol]	EXISTING STORM DRAIN CATCH BASIN (TYPE I)
[Symbol]	EXISTING STORM DRAIN CLEANOUT
[Symbol]	EXISTING STORM DRAIN LINE
[Symbol]	EXISTING SANITARY SEWER MANHOLE
[Symbol]	EXISTING SANITARY SEWER CLEANOUT
[Symbol]	EXISTING SANITARY SEWER LINE
[Symbol]	APPROX. LOC. 18" SAN. SEWER FORCE MAIN
[Symbol]	EXISTING FIRE HYDRANT
[Symbol]	EXISTING WATER MANHOLE
[Symbol]	EXISTING WATER VALVE
[Symbol]	EXISTING WATER METER
[Symbol]	EXISTING FIRE DEPT. CONNECTION
[Symbol]	EXISTING IRRIGATION CONTROL VALVE
[Symbol]	EXISTING MONITORING WELL
[Symbol]	APPROX. LOCATION WATER LINE
[Symbol]	EXISTING UTILITIES POLE & CUY ANCHOR
[Symbol]	EXISTING UTILITIES POLE & LUMINAIRE
[Symbol]	EXISTING ELECTRICAL CABINET
[Symbol]	SPECIFICATION
[Symbol]	EXISTING LUMINAIRE
[Symbol]	EXISTING YARO LIGHT
[Symbol]	EXISTING TRAFFIC CONTROL CABINET
[Symbol]	EXISTING JUNCTION BOX
[Symbol]	EXISTING POWER METER
[Symbol]	APPROX. LOCATION UNDERGROUND POWER
[Symbol]	EXISTING TELEPHONE MANHOLE
[Symbol]	EXISTING TELEPHONE RISER
[Symbol]	EXISTING GAS VALVE
[Symbol]	APPROX. LOCATION GAS MAIN
[Symbol]	EXISTING SIGN POST
[Symbol]	EXISTING MAILBOX
[Symbol]	EXISTING BOLLARD
[Symbol]	EXISTING CHAIN LINK FENCE
[Symbol]	EXISTING BOARD FENCE
[Symbol]	EXISTING GUARO RAIL
[Symbol]	EXISTING CONIFER TREE
[Symbol]	EXISTING DECIDUOUS TREE
[Symbol]	ORDINARY HIGH WATER LINE. (AS DETERMINED BY CEO ENGINEERS)
[Symbol]	PROPOSED STORM CB
[Symbol]	PROPOSED STORM PIPE
10	PROPOSED GRADING CONTOUR
[Symbol]	PUBLIC ROW BOUNDARY
[Symbol]	PROPERTY BOUNDARY
[Symbol]	PROPOSED EASEMENT
[Symbol]	PROPOSED WALL
[Symbol]	PROPOSED WALL WITH RAIL
[Symbol]	PROPOSED CANTILEVER SUPPORT
[Symbol]	PROPOSED PERMANENT SIGNAGE (MUTCD STANDARDS)

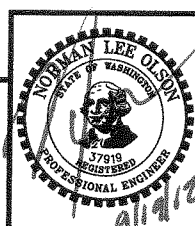


**REVISIONS**

NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE
	RPJ	9/12
	JAT	9/12
	NLOI	9/12

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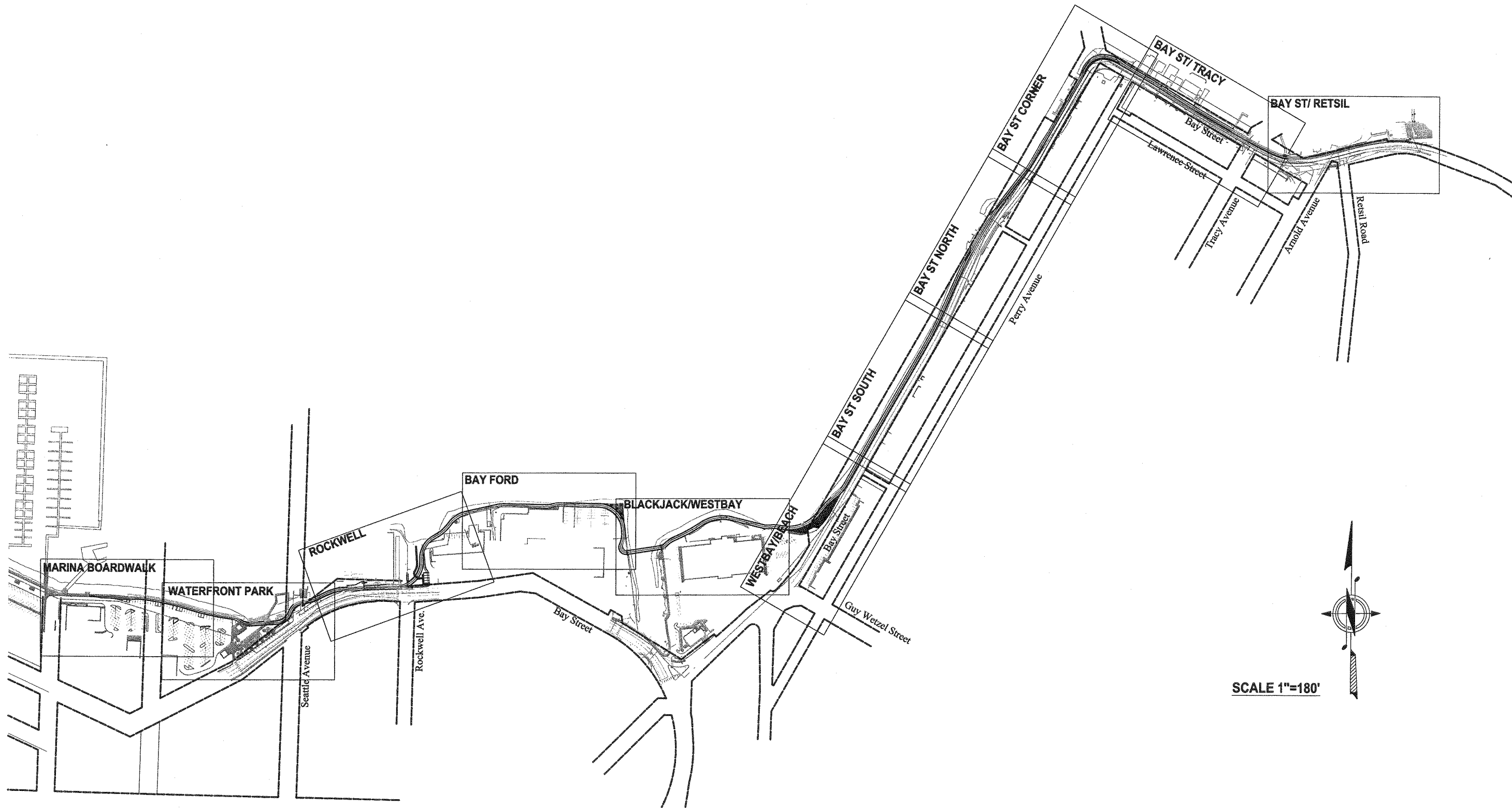


**ABBREVIATIONS, LEGEND, SYMBOLS, VICINITY MAP & INDEX**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:

**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: N.T.S.  
DATE: Sep. 12, 2012  
DRAWING NUMBER:  
**097337-407193**  
SHEET C2.0

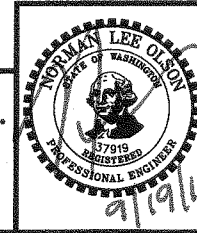


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REVISIONS			
NO	DATE	BY	DESCRIPTION

	BY	DATE
DESIGNED	RPJ	9/12
DRAWN	JAT	9/12
CHECKED	NLOI	9/12
APPROVED		
ACCEPTED		

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 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**KEY MAP**  
 City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
 Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington

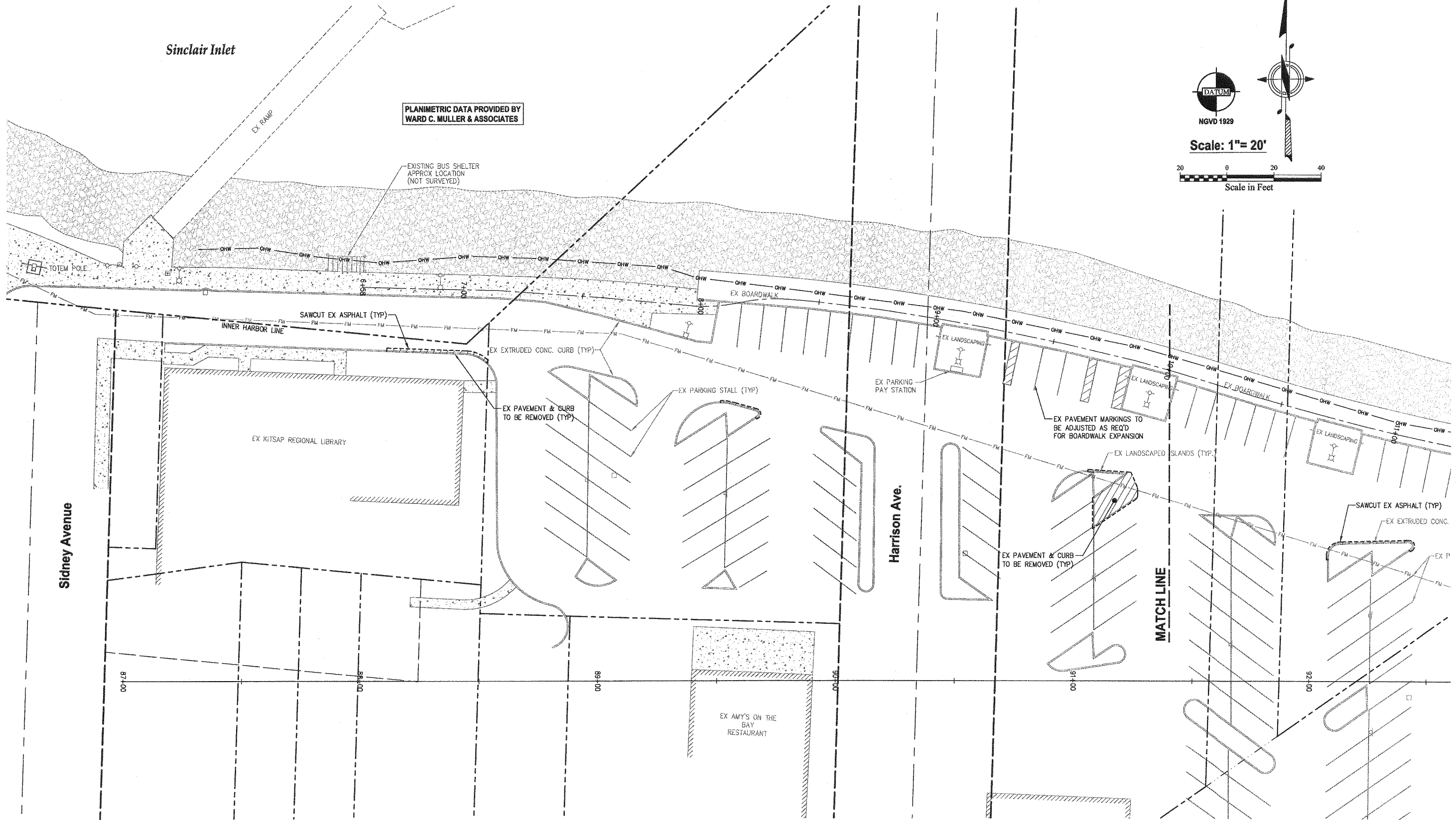
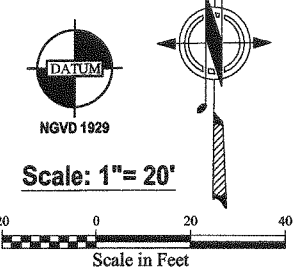
FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1"=180'  
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 DRAWING NUMBER  
**097337-407194**  
 SHEET C3.0



Sinclair Inlet

PLANIMETRIC DATA PROVIDED BY  
WARD C. MULLER & ASSOCIATES

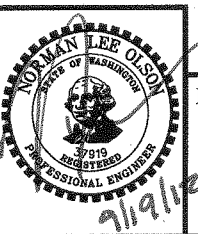


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REVISIONS			
ND.	DATE	BY	DESCRIPTION

	BY	DATE
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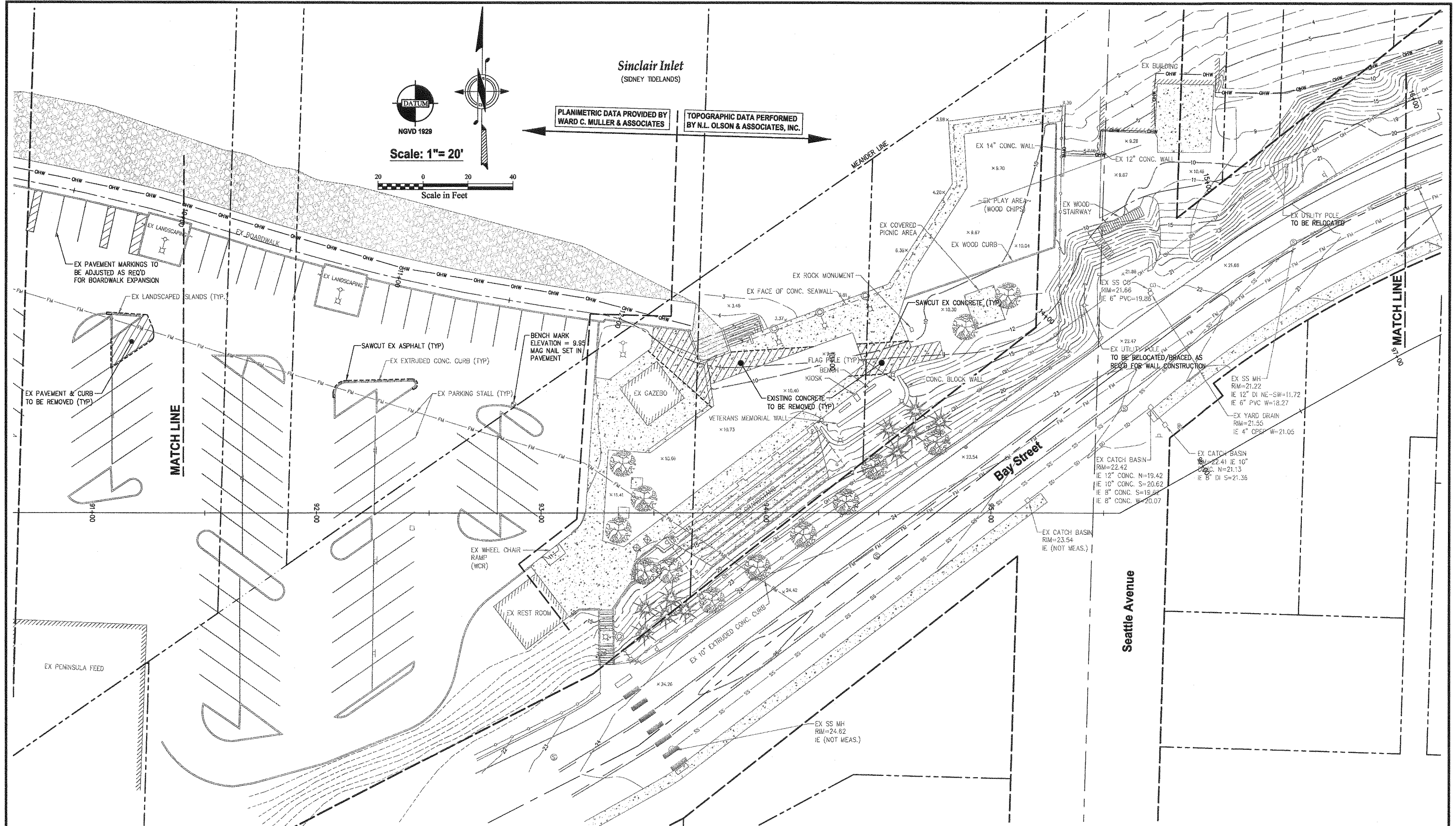
**EXISTING CONDITIONS, DEMOLITION & T.E.S.C. -MARINA BOARDWALK**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

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DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407195**  
SHEET C4.0



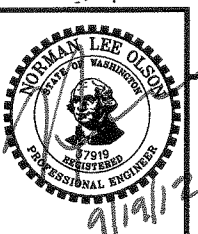
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NO.	DATE	BY	DESCRIPTION

	BY	DATE
DESIGNED	RPJ	9/12
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CHECKED	NLOII	9/12
APPROVED		
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**EXISTING CONDITIONS, DEMOLITION & T.E.S.C. - WATERFRONT PARK**  
 City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
 Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

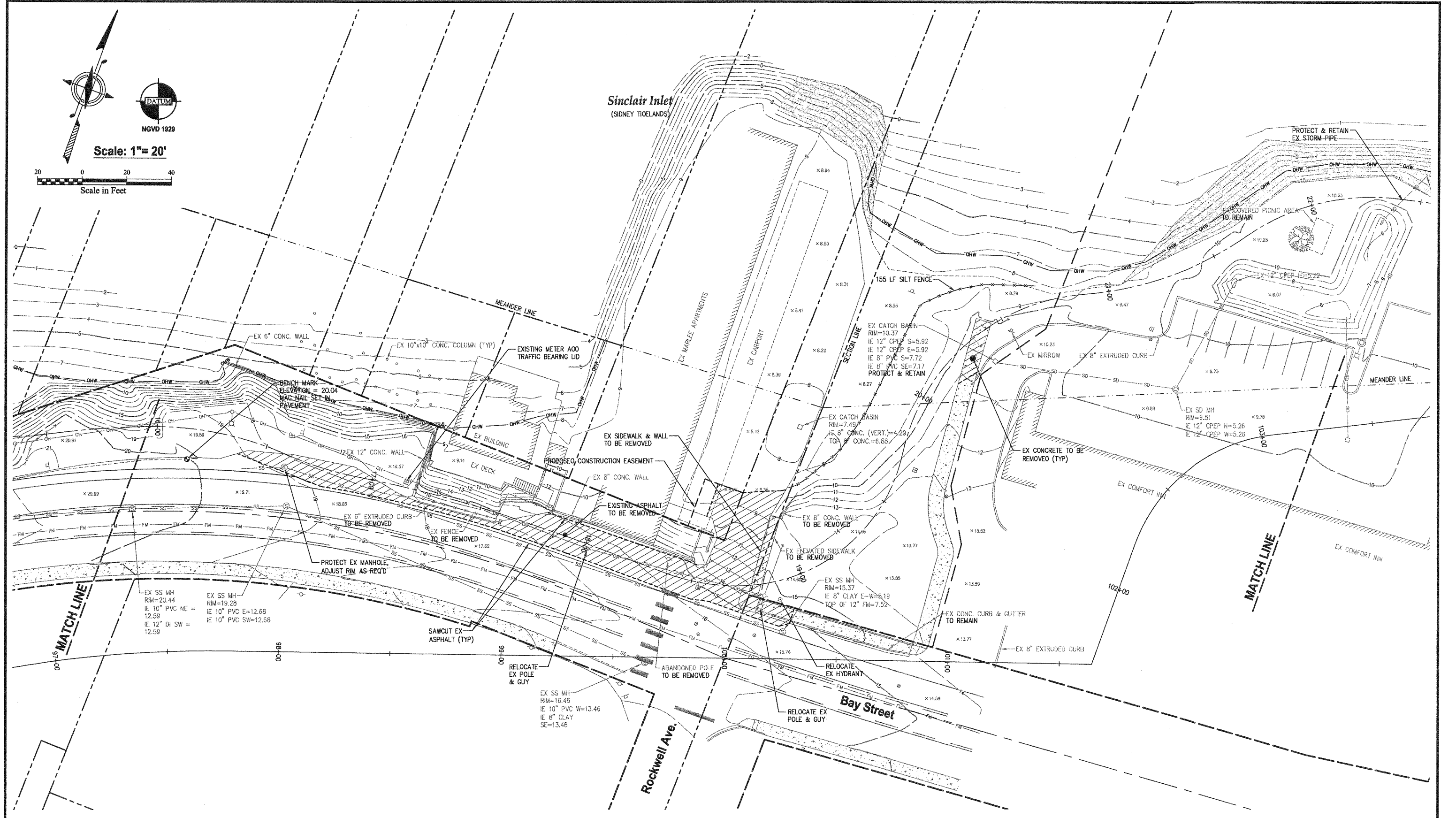
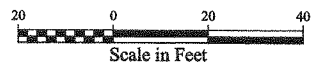
FOR: **City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1" = 20'  
 DATE: Sep. 12, 2012  
 DRAWING NUMBER  
**097337-407196**  
 SHEET C4.1



NGVD 1929

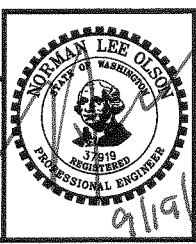
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**EXISTING CONDITIONS, DEMOLITION & T.E.S.C. PLAN - ROCKWELL**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
 Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

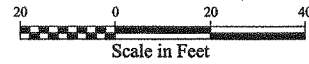
FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1"= 20'  
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 DRAWING NUMBER  
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 SHEET C4.2

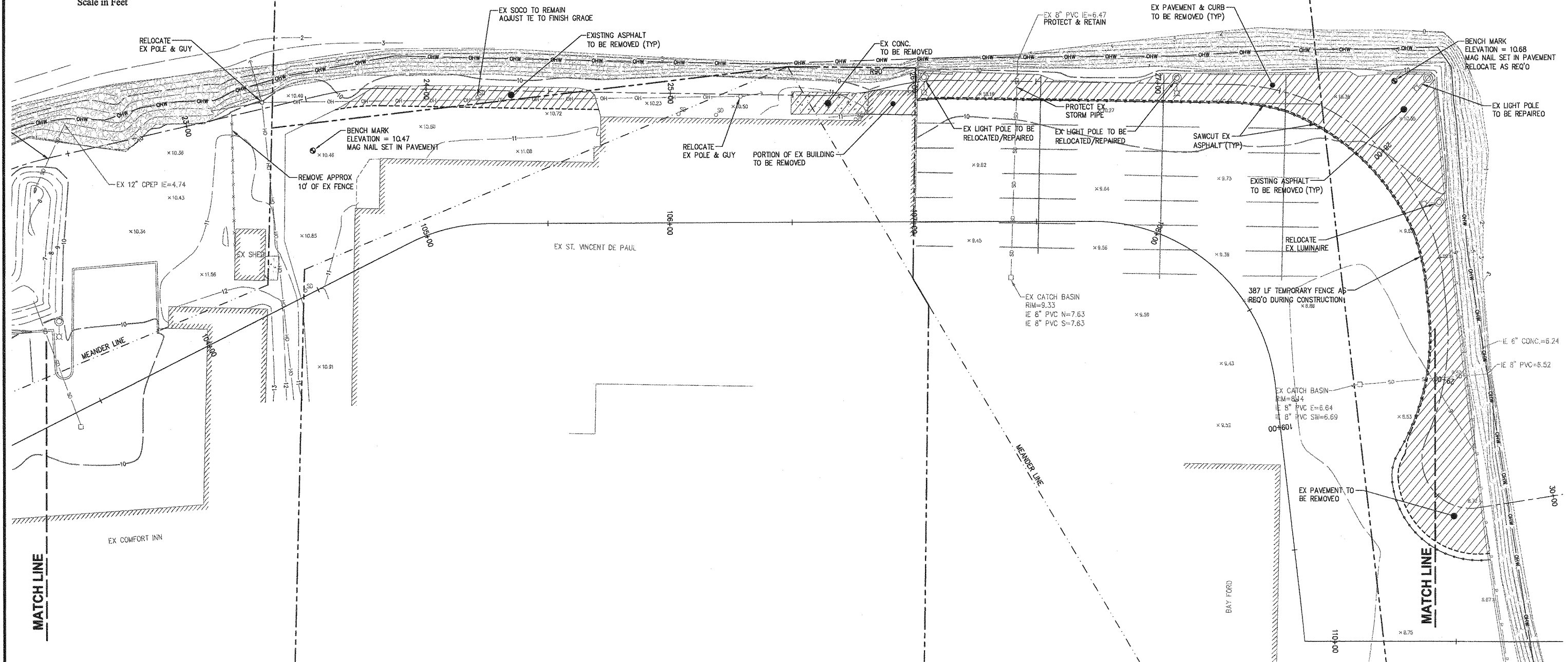


NGVD 1929

Scale: 1" = 20'



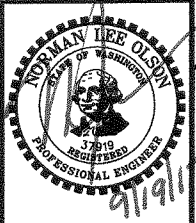
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(SIONEY TIDELANDS)



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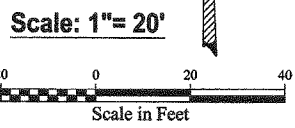
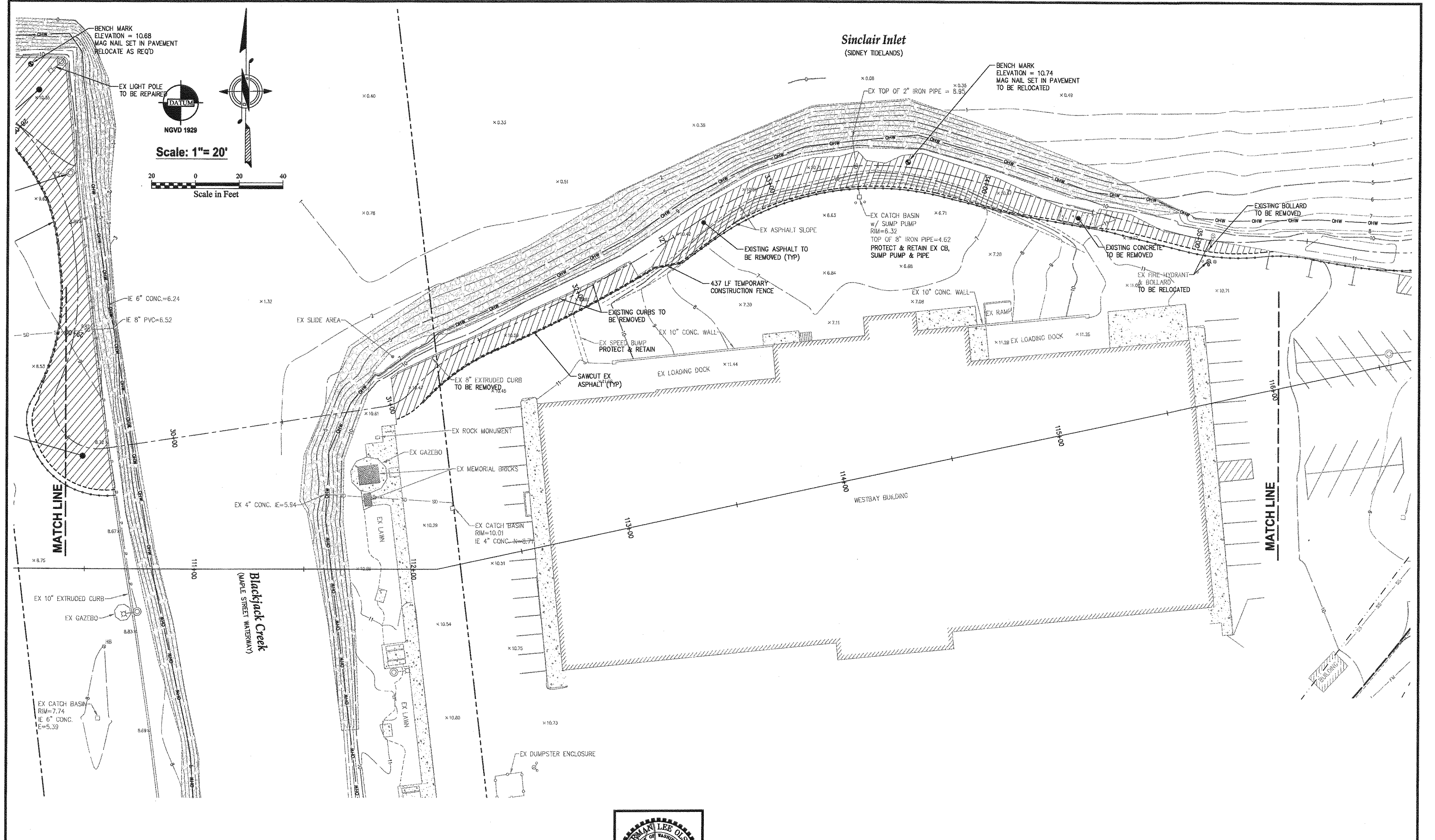
**EXISTING CONDITIONS, DEMOLITION & T.E.S.C. PLAN -BAY FORD**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situate Within Gov't Lots 1, 2, 3 and 4, Section 25 and within Gov't Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1" = 20'
DATE: Sep. 12, 2012
DRAWING NUMBER <b>097337-407198</b>
SHEET C4.3



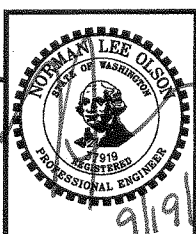
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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE
RPJ	RPJ	9/12
JAT	JAT	9/12
NLOI	NLOI	9/12

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

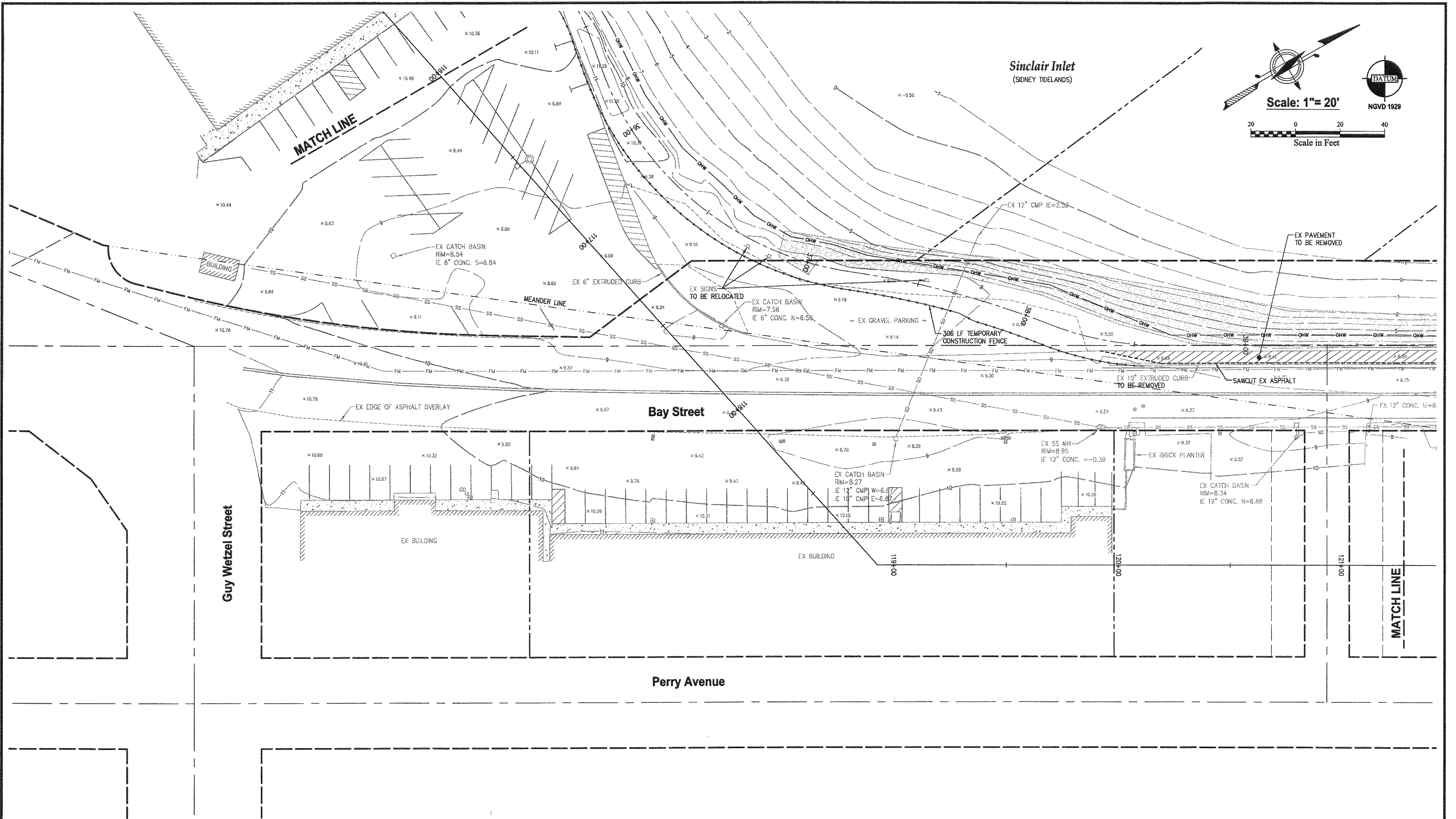
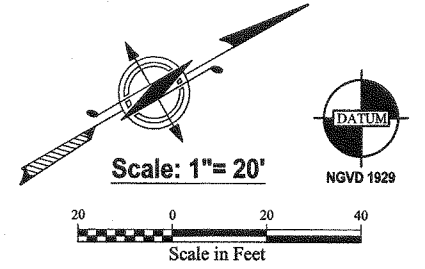


**EXISTING CONDITIONS, DEMOLITION & T.E.S.C. PLAN**  
-BLACKJACK/ WESTBAY  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail

Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

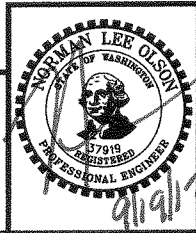
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DRAWING NUMBER  
**097337-407199**  
SHEET C4.4



REVISIONS			
NO.	DATE	BY	DESCRIPTION

	BY	DATE
DESIGNED	RPJ	9/12
DRAWN	JAT	9/12
CHECKED	NLOH	9/12
APPROVED		
ACCEPTED		

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

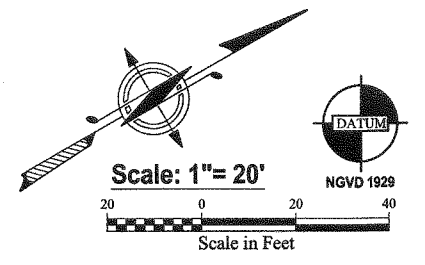


**EXISTING CONDITIONS, DEMOLITION & T.E.S.C. PLAN**  
**WESTBAY/ BEACH**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

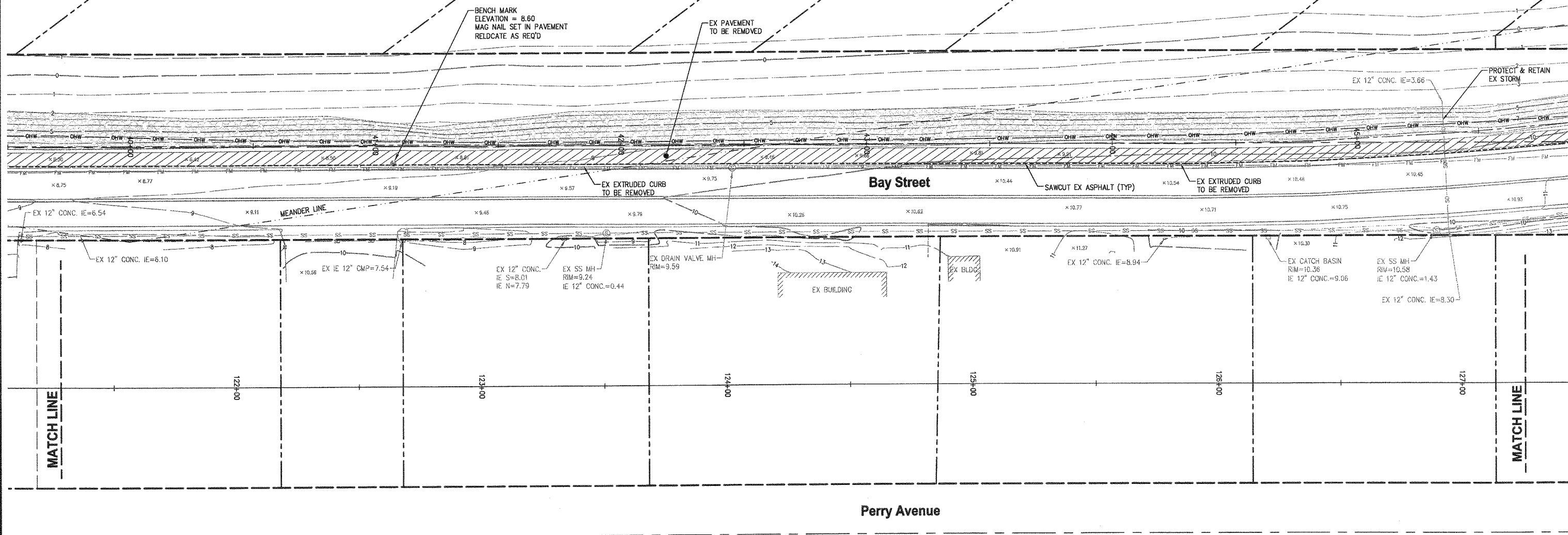
FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1"= 20'  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407200**  
SHEET C4.5

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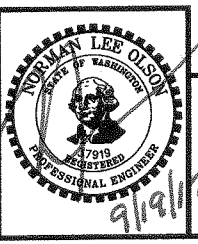
Sinclair Inlet  
(SIDNEY TIDELANDS)



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REVISIONS				BY	DATE
NO.	DATE	BY	DESCRIPTION	DESIGNED	RPJ 9/12
				DRAWN	JAT 9/12
				CHECKED	NLDH 9/12
				APPROVED	
				ACCEPTED	

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

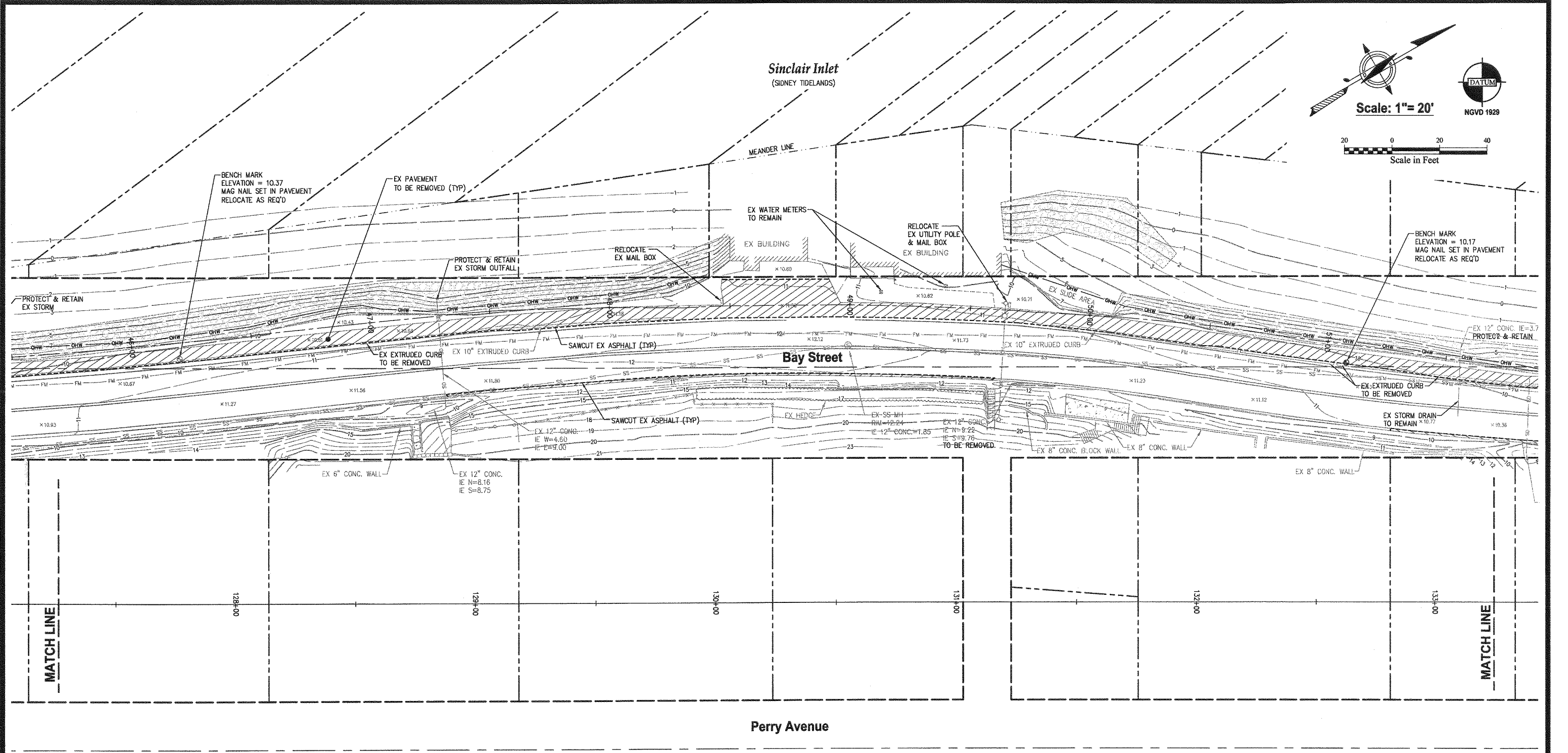
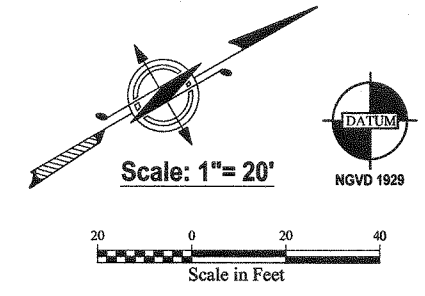


**EXISTING CONDITIONS, DEMOLITION & T.E.S.C. PLAN -BAY ST SOUTH**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1"= 20'  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407201**  
SHEET C4.6

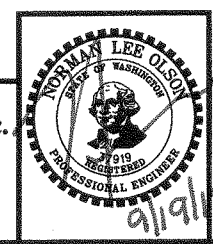




REVISIONS			
NO.	DATE	BY	DESCRIPTION

	BY	DATE
DESIGNED	RPJ	9/12
DRAWN	JAT	9/12
CHECKED	NLOI	9/12
APPROVED		
ACCEPTED		

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

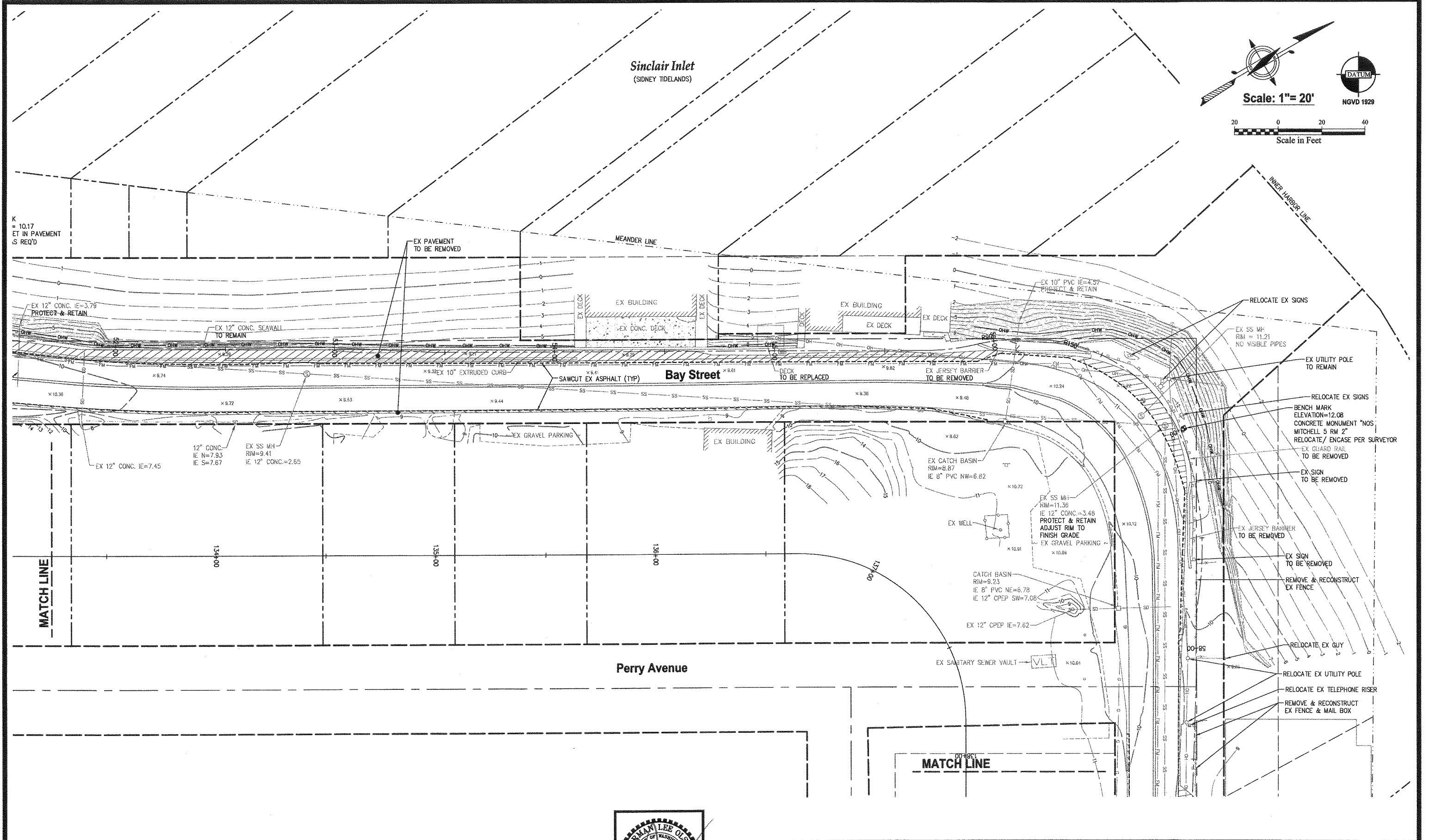
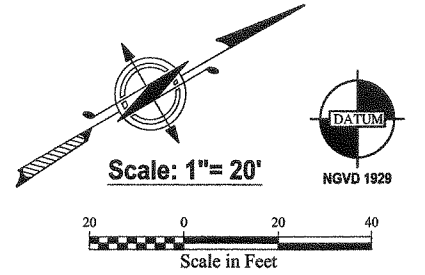


**EXISTING CONDITIONS, DEMOLITION & T.E.S.C. PLAN - BAY ST NORTH**  
 City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
 Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

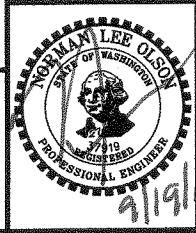
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 DATE: Sep. 12, 2012  
 DRAWING NUMBER  
**097337-407202**  
 SHEET C4.7

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

**N.L. Olson & Associates, Inc.**  
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 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**EXISTING CONDITIONS, DEMOLITION & T.E.S.C. PLAN - BAY ST CORNER**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

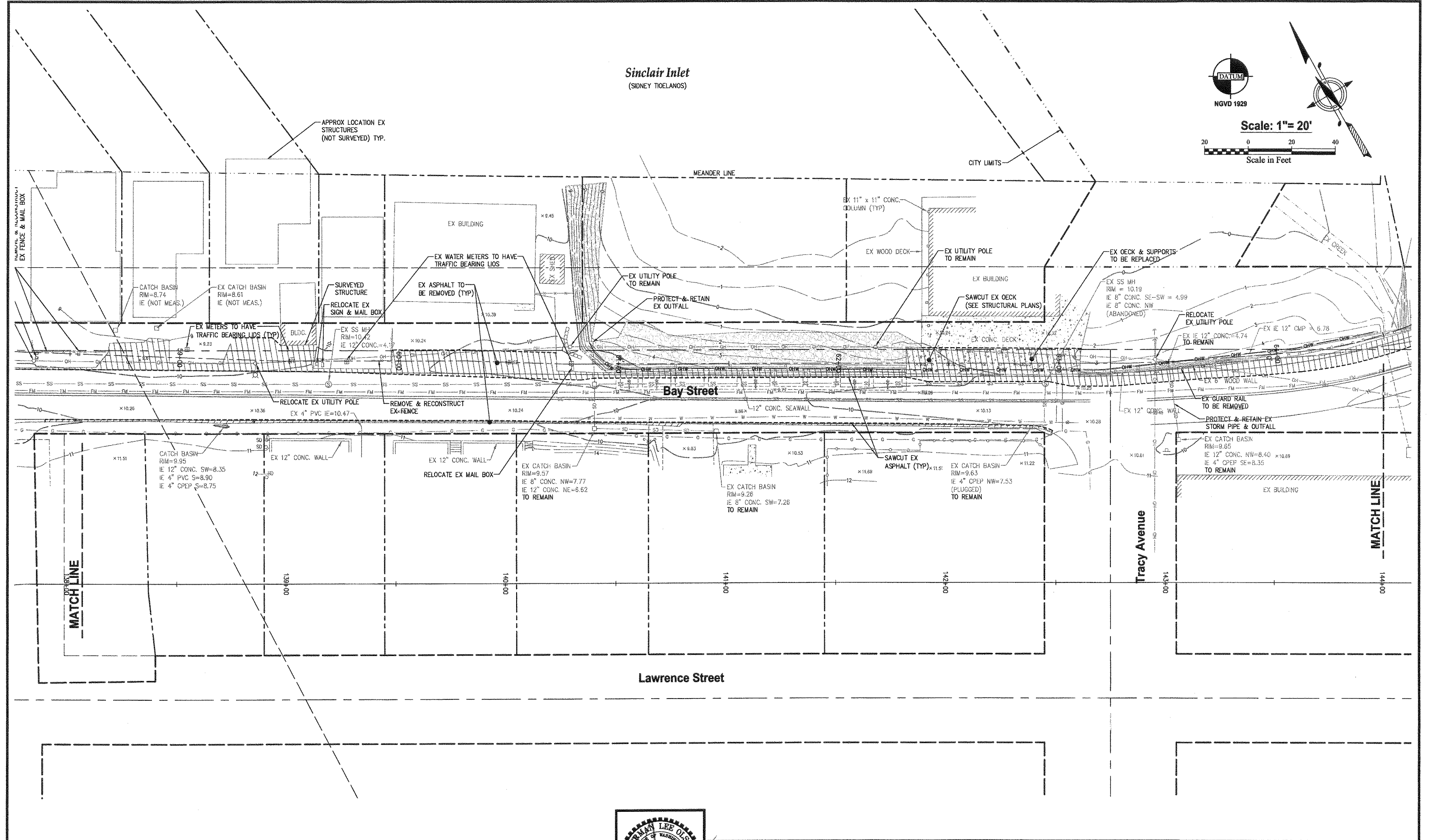
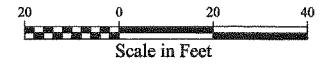
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 SHEET: C4.8

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Sinclair Inlet  
(SIDNEY TOELANOS)



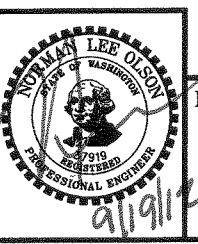
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REVISIONS			
NO.	DATE	BY	DESCRIPTION

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Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**EXISTING CONDITIONS, DEMOLITION & T.E.S.C. PLAN - BAY ST/ TRACY**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

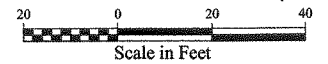
FOR: **City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1" = 20'  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407204**  
SHEET C4.9



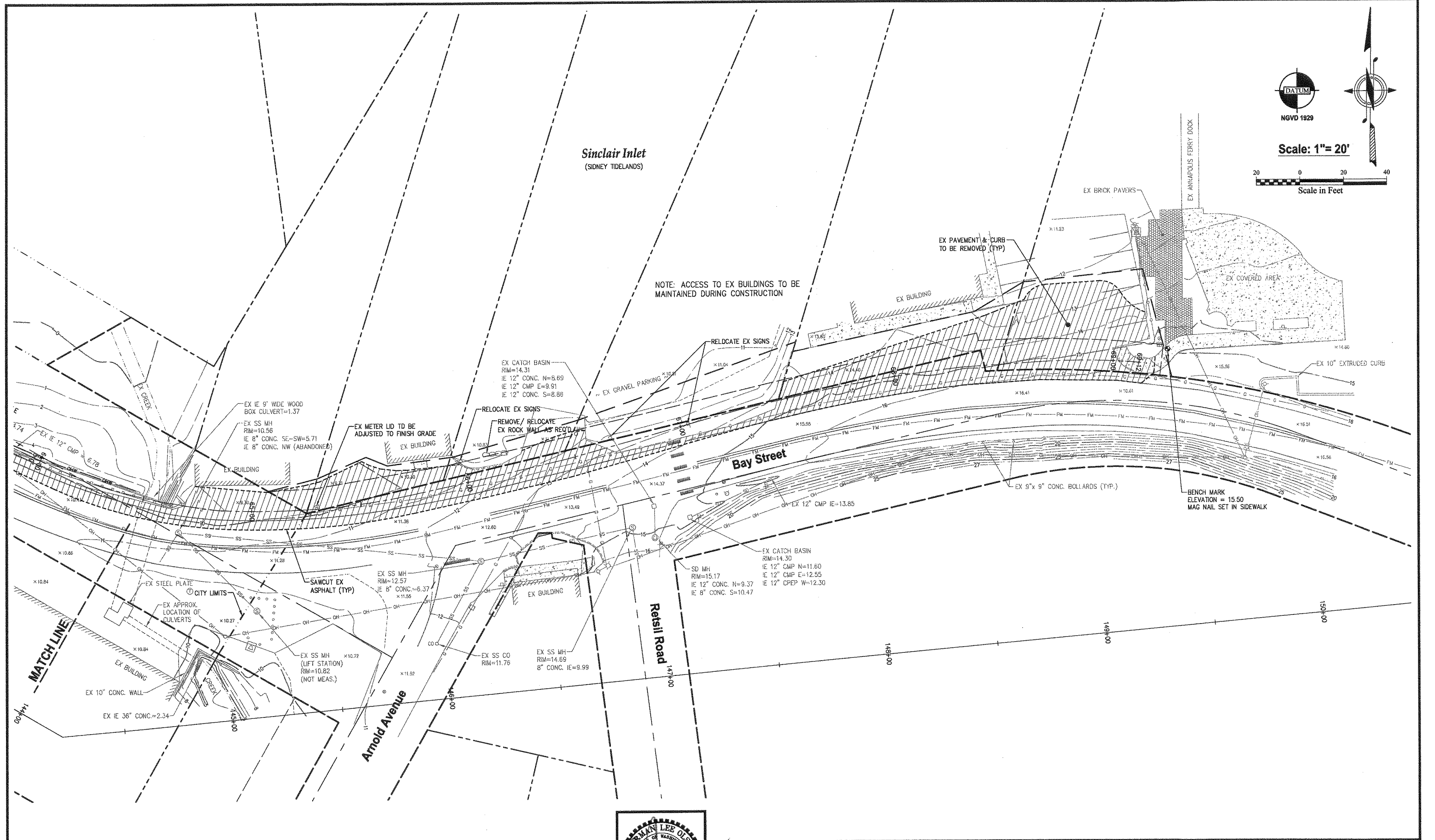


Scale: 1" = 20'



Sinclair Inlet  
(SIDNEY TIDELANDS)

NOTE: ACCESS TO EX BUILDINGS TO BE MAINTAINED DURING CONSTRUCTION

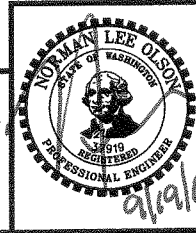


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REVISIONS			
NO.	DATE	BY	DESCRIPTION

	BY	DATE
DESIGNED	RPJ	9/12
DRAWN	JAT	9/12
CHECKED	NLOII	9/12
APPROVED		
ACCEPTED		

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**EXISTING CONDITIONS, DEMOLITION & T.E.S.C. PLAN -BAY ST/ RETSIL**  
 City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1" = 20'  
 DATE: Sep. 12, 2012  
 DRAWING NUMBER  
**097337-407205**  
 SHEET C4.10

LINE	LENGTH	BEARING
L1	8.94	N88°21'19"E
L2	23.66	N88°39'46"W
L3	24.39	N88°46'08"E
L4	43.88	N86°06'06"W
L5	37.20	N84°40'08"E
L6	10.04	N85°14'16"W
L7	29.04	N83°09'02"W
L8	26.72	N80°59'49"W
L9	18.93	N79°40'33"W
L10	32.92	N78°28'22"W
L11	30.30	N78°45'46"W
L12	18.82	N74°16'32"W
L13	36.31	N73°08'19"W
L14	26.80	N74°39'13"W
L15	18.84	N75°30'09"W
L16	16.11	N76°45'57"W
L17	27.73	N78°15'38"W

LINE	LENGTH	RADIUS	DELTA
C1	21.25	70.00	17°23'36"
C2	20.56	70.00	16°49'28"

**PAVEMENT MARKING LEGEND**

- ① 4" WIDE WHITE EDGE LINE WSDOT STD PLAN M-20.10-01
- ② 4" WIDE DOUBLE YELLOW CENTER LINE WSDOT STD PLAN M-20.10-01
- ③ 18" PAINTED STOP BAR WSDOT STD PLAN M-15.10-01
- ④ PAINTED CROSSWALK WSDOT STD PLAN M-15.10-01
- ⑤ 18" WIDE PAINTED WHITE BARRIER LINE
- ⑥ 4" WIDE BROKEN YELLOW LINE FOR BICYCLE PATH PER MUTCO FIG 9C-2
- ⑦ 4" WIDE SOLID YELLOW LINE FOR BICYCLE PATH PER MUTCO FIG 9C-2

PLANIMETRIC DATA PROVIDED BY  
WARD C. MULLER & ASSOCIATES

NOTE: SIGNS TO  
MUTCO STANDARDS

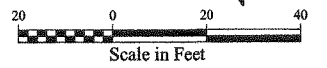
**SURFACING LEGEND**

- GRASS/ LANDSCAPING
- HMA 1/2" (PG 58-22)
- GRAVEL (C.S.T.C.)
- CONCRETE (SIDEWALK OR BRIDGE/CANTILEVER DECK)
- METAL GRATE



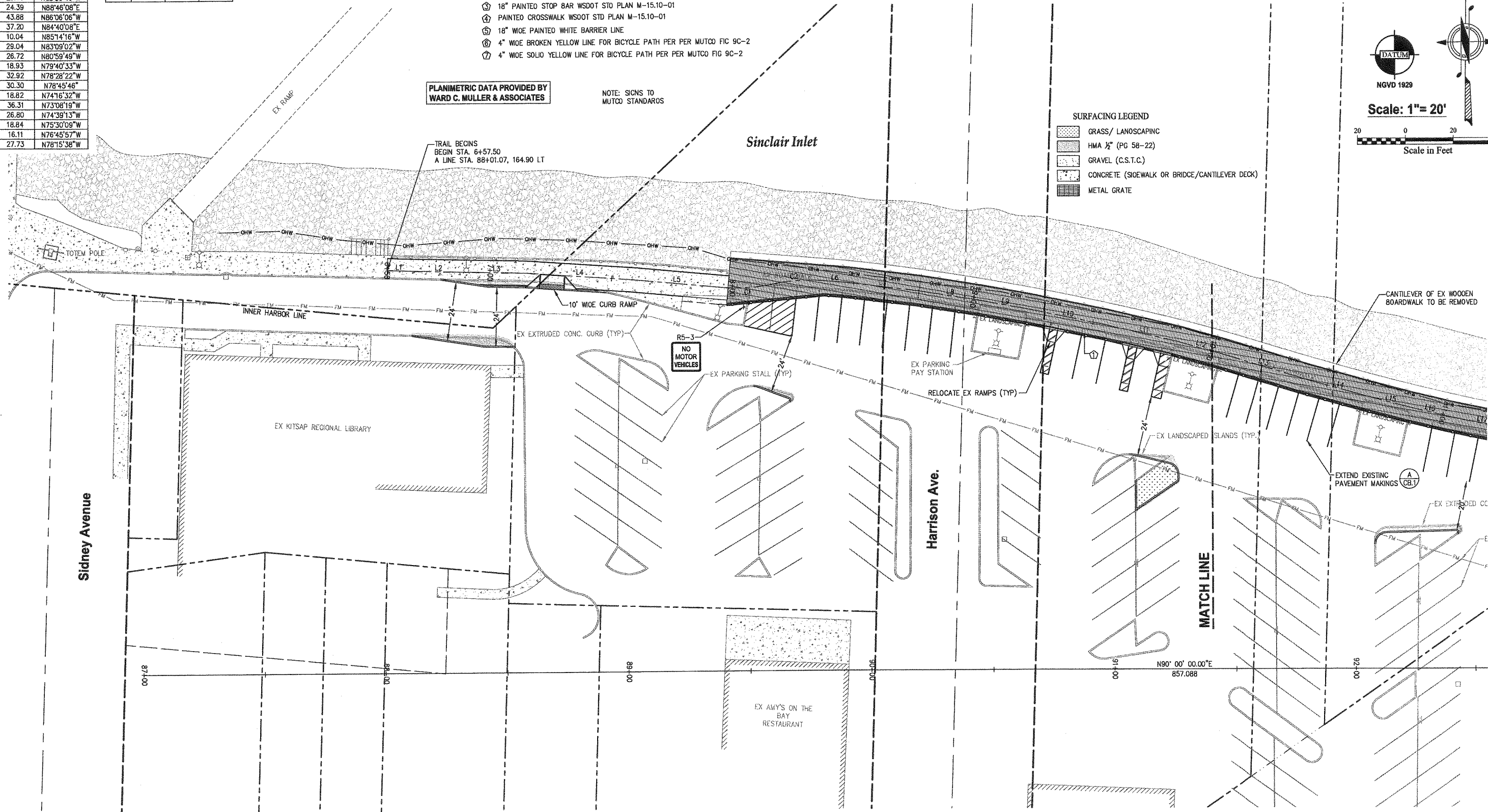
NGVD 1929

Scale: 1" = 20'



Sinclair Inlet

TRAIL BEGINS  
BEGIN STA. 6+57.50  
A LINE STA. 88+01.07, 164.90 LT



Sidney Avenue

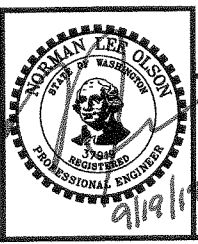
Harrison Ave.

MATCH LINE

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOI	9/12
APPROVED	
ACCEPTED	

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**TRAIL ALIGNMENT AND SURFACING PLAN - MARINA BOARDWALK**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1" = 20'  
DATE: Sep. 12, 2011  
DRAWING NUMBER  
**097337-407206**  
SHEET C5.0

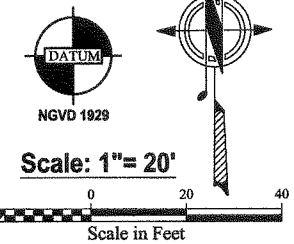
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**SURFACING LEGEND**

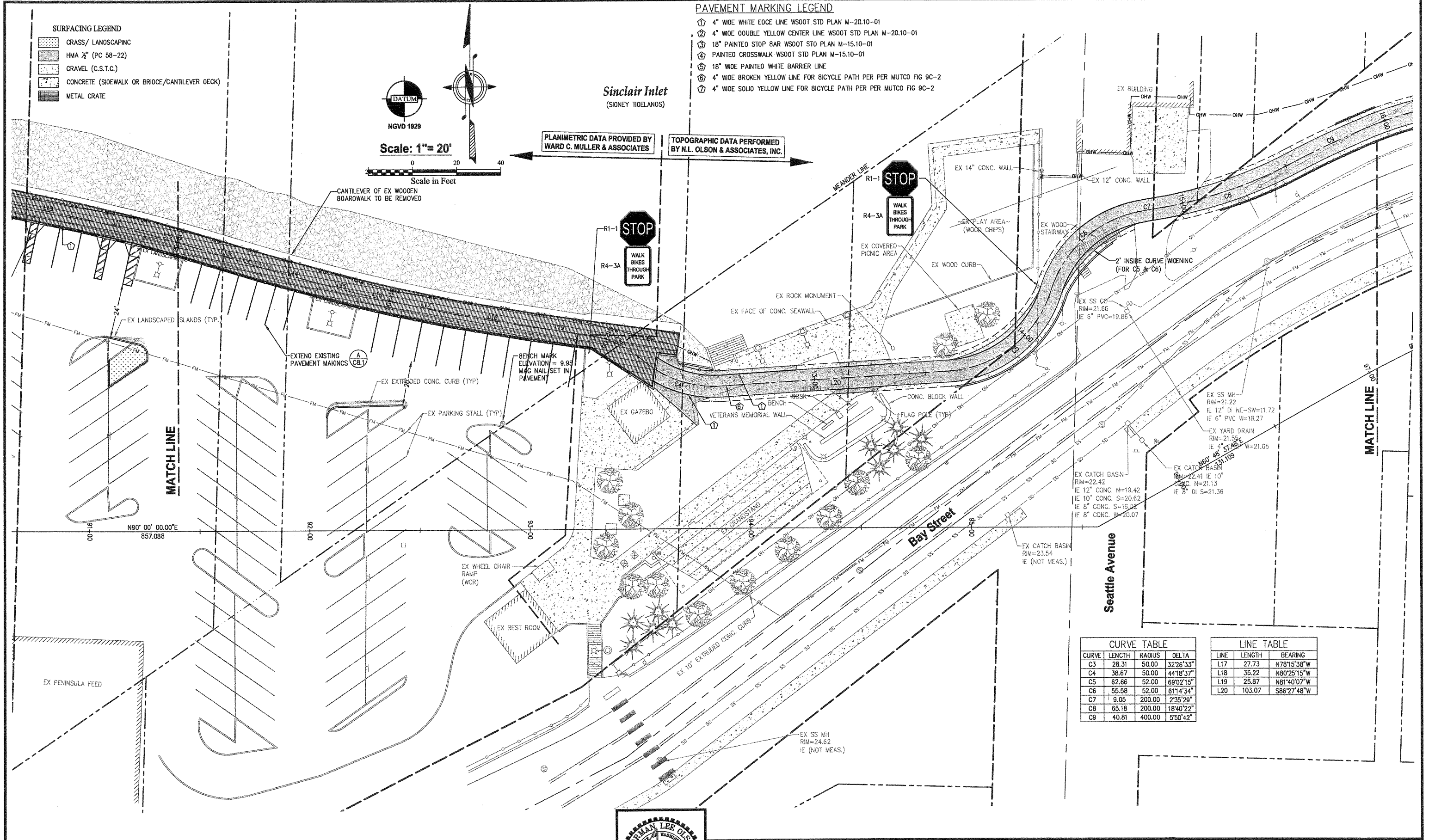
	CRASS/ LANDSCAPING
	HMA 1/2" (PC 58-22)
	GRAVEL (C.S.T.C.)
	CONCRETE (SIDEWALK OR BRIDGE/CANTILEVER DECK)
	METAL CRATE

**PAVEMENT MARKING LEGEND**

	4" WIDE WHITE EDGE LINE WSOOT STD PLAN M-20.10-01
	4" WIDE DOUBLE YELLOW CENTER LINE WSOOT STD PLAN M-20.10-01
	18" PAINTED STOP BAR WSOOT STD PLAN M-15.10-01
	PAINTED CROSSWALK WSOOT STD PLAN M-15.10-01
	18" WIDE PAINTED WHITE BARRIER LINE
	4" WIDE BROKEN YELLOW LINE FOR BICYCLE PATH PER MUTCO FIG 9C-2
	4" WIDE SOLID YELLOW LINE FOR BICYCLE PATH PER MUTCO FIG 9C-2



PLANIMETRIC DATA PROVIDED BY WARD C. MULLER & ASSOCIATES  
 TOPOGRAPHIC DATA PERFORMED BY N.L. OLSON & ASSOCIATES, INC.



**CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA
C3	28.31	50.00	32°26'33"
C4	38.67	50.00	44°18'37"
C5	62.66	52.00	69°02'15"
C6	55.58	52.00	61°14'34"
C7	9.05	200.00	2°35'29"
C8	65.18	200.00	18°40'22"
C9	40.81	400.00	5°50'42"

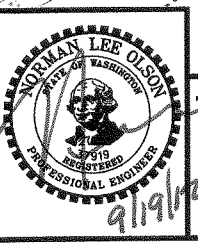
**LINE TABLE**

LINE	LENGTH	BEARING
L17	27.73	N78°15'38"W
L18	35.22	N80°25'15"W
L19	25.87	N81°40'07"W
L20	103.07	S86°27'48"W

**REVISIONS**

NO.	DATE	BY	DESCRIPTION

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



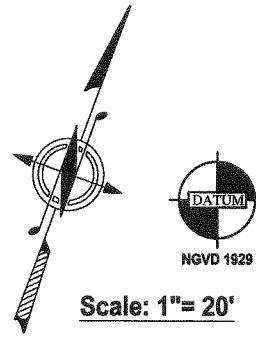
**TRAIL ALIGNMENT AND SURFACING PLAN - WATERFRONT PARK**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

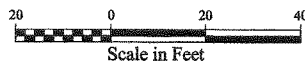
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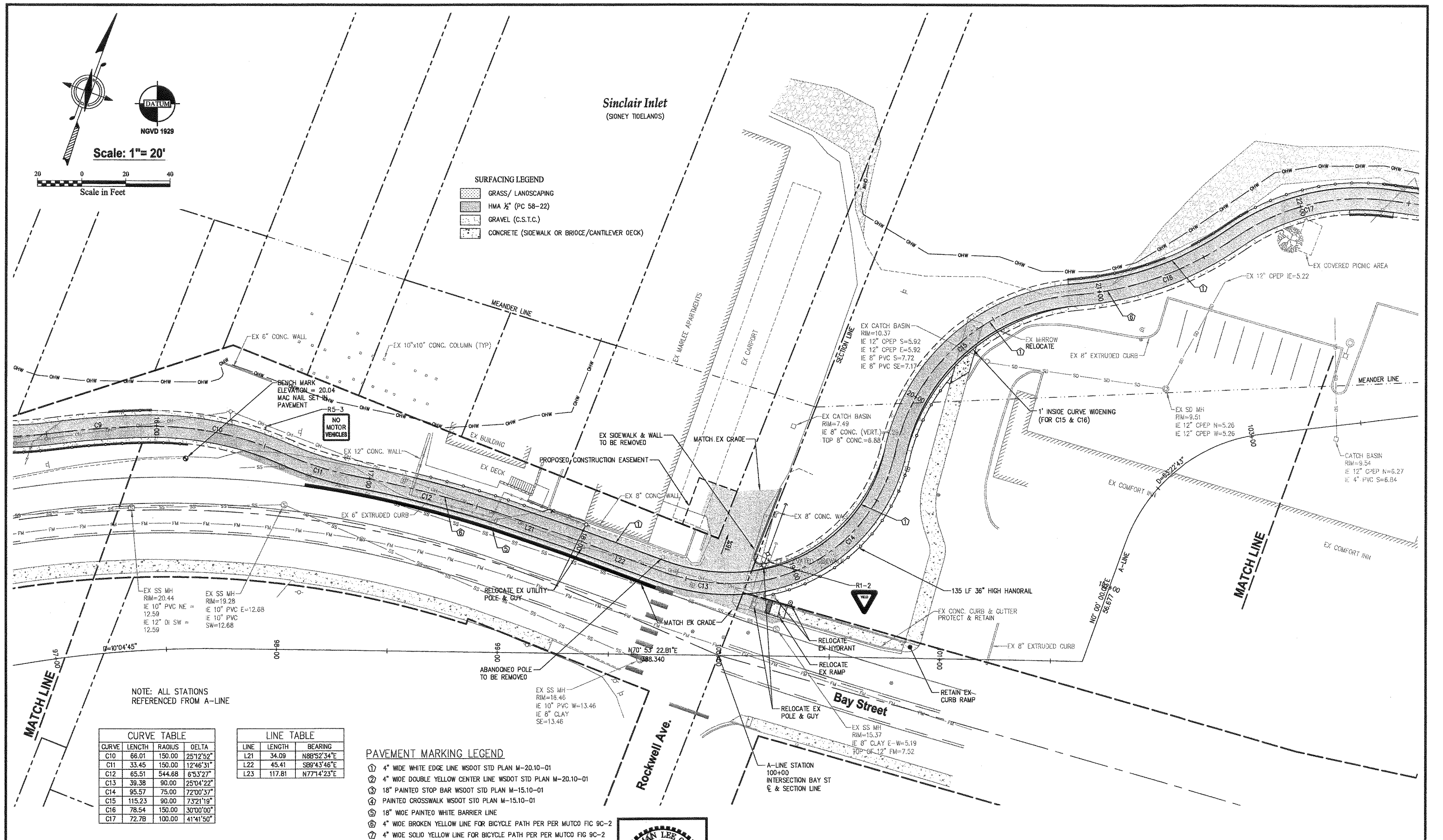




Scale: 1"= 20'



- SURFACING LEGEND**
- GRASS/ LANDSCAPING
  - HMA 1/2" (PC 58-22)
  - GRAVEL (C.S.T.C.)
  - CONCRETE (SIDEWALK OR BRIDGE/CANTILEVER DECK)



NOTE: ALL STATIONS REFERENCED FROM A-LINE

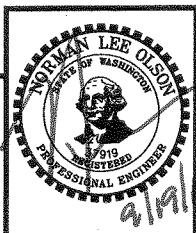
CURVE	LENGTH	RADIUS	DELTA
C10	66.01	150.00	25°12'52"
C11	33.45	150.00	12°46'31"
C12	65.51	544.68	6°53'27"
C13	39.38	90.00	25°04'22"
C14	95.57	75.00	72°00'37"
C15	115.23	90.00	73°21'19"
C16	78.54	150.00	30°00'00"
C17	72.78	100.00	41°41'50"

LINE	LENGTH	BEARING
L21	34.09	N88°52'34"E
L22	45.41	S89°43'46"E
L23	117.81	N77°14'23"E

- PAVEMENT MARKING LEGEND**
- ① 4" WIDE WHITE EDGE LINE WSDOT STD PLAN M-20.10-01
  - ② 4" WIDE DOUBLE YELLOW CENTER LINE WSDOT STD PLAN M-20.10-01
  - ③ 18" PAINTED STOP BAR WSDOT STD PLAN M-15.10-01
  - ④ PAINTED CROSSWALK WSDOT STD PLAN M-15.10-01
  - ⑤ 18" WIDE PAINTED WHITE BARRIER LINE
  - ⑥ 4" WIDE BROKEN YELLOW LINE FOR BICYCLE PATH PER MUTCO FIG 9C-2
  - ⑦ 4" WIDE SOLID YELLOW LINE FOR BICYCLE PATH PER MUTCO FIG 9C-2

REVISIONS			
NO.	DATE	BY	DESCRIPTION

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**TRAIL ALIGNMENT AND SURFACING PLAN - ROCKWELL**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366





SCALE: 1"= 20'  
 DATE: Sep. 12, 2011  
 DRAWING NUMBER: **097337-407208**  
 SHEET: C5.2

C:\projects\7337 MOSQUITO FLEET TRAIL\DWG\7337 FINAL TRAIL ALIGNMENT SURFACING PLAN.dwg, 9/11/2012, 1:31:20 PM, jthompson, \INLOPAA\Doc 73370

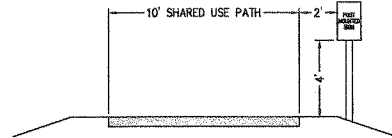
TW=TOP OF WALL  
 BW=BOTTOM OF EXPOSED WALL

**Sinclair Inlet**  
 (SIOENEY TOELANOS)

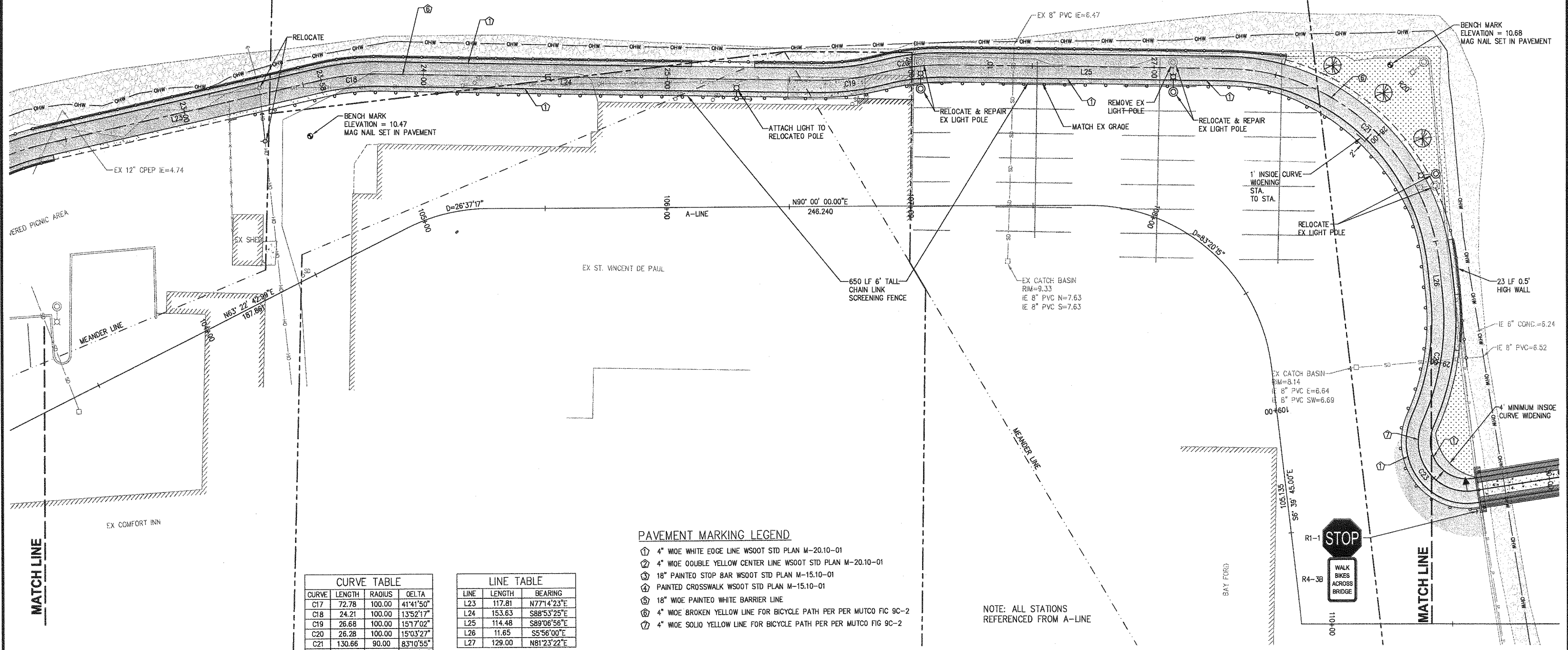
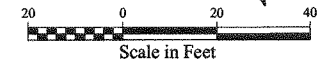
**SURFACING LEGEND**

-  GRASS/ LANDSCAPING
-  HMA 1/2" (PG 58-22)
-  GRAVEL (C.S.T.C.)
-  CONCRETE (SICEWALK OR BRIDGE/CANTILEVER DECK)

**SIGN PLACEMENT ON SHARE USE PATH**  
 NOT TO SCALE



Scale: 1"= 20'



**CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA
C17	72.78	100.00	41°41'50"
C18	24.21	100.00	13°52'17"
C19	26.68	100.00	15°17'02"
C20	26.28	100.00	15°03'27"
C21	130.66	90.00	83°10'55"
C22	53.09	100.00	30°25'12"
C23	42.97	20.00	123°05'50"

**LINE TABLE**

LINE	LENGTH	BEARING
L23	117.81	N77°14'23"E
L24	153.63	S88°53'25"E
L25	114.48	S89°06'56"E
L26	11.65	S5°56'00"E
L27	129.00	N81°23'22"E

**PAVEMENT MARKING LEGEND**

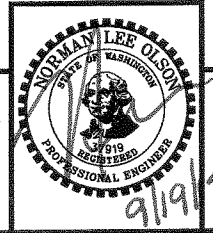
- ① 4" W/OE WHITE EDGE LINE WSOOT STD PLAN M-20.10-01
- ② 4" W/OE DOUBLE YELLOW CENTER LINE WSOOT STD PLAN M-20.10-01
- ③ 18" PAINTED STOP BAR WSOOT STD PLAN M-15.10-01
- ④ PAINTED CROSSWALK WSOOT STD PLAN M-15.10-01
- ⑤ 18" W/OE PAINTED WHITE BARRIER LINE
- ⑥ 4" W/OE BROKEN YELLOW LINE FOR BICYCLE PATH PER PER MUTCO FIG 9C-2
- ⑦ 4" W/OE SOLID YELLOW LINE FOR BICYCLE PATH PER PER MUTCO FIG 9C-2

NOTE: ALL STATIONS REFERENCED FROM A-LINE

**REVISIONS**

NO.	DATE	BY	DESCRIPTION

DESIGNED BY RPJ 9/12  
 DRAWN BY JAT 9/12  
 CHECKED BY NLOH 9/12  
 APPROVED  
 ACCEPTED



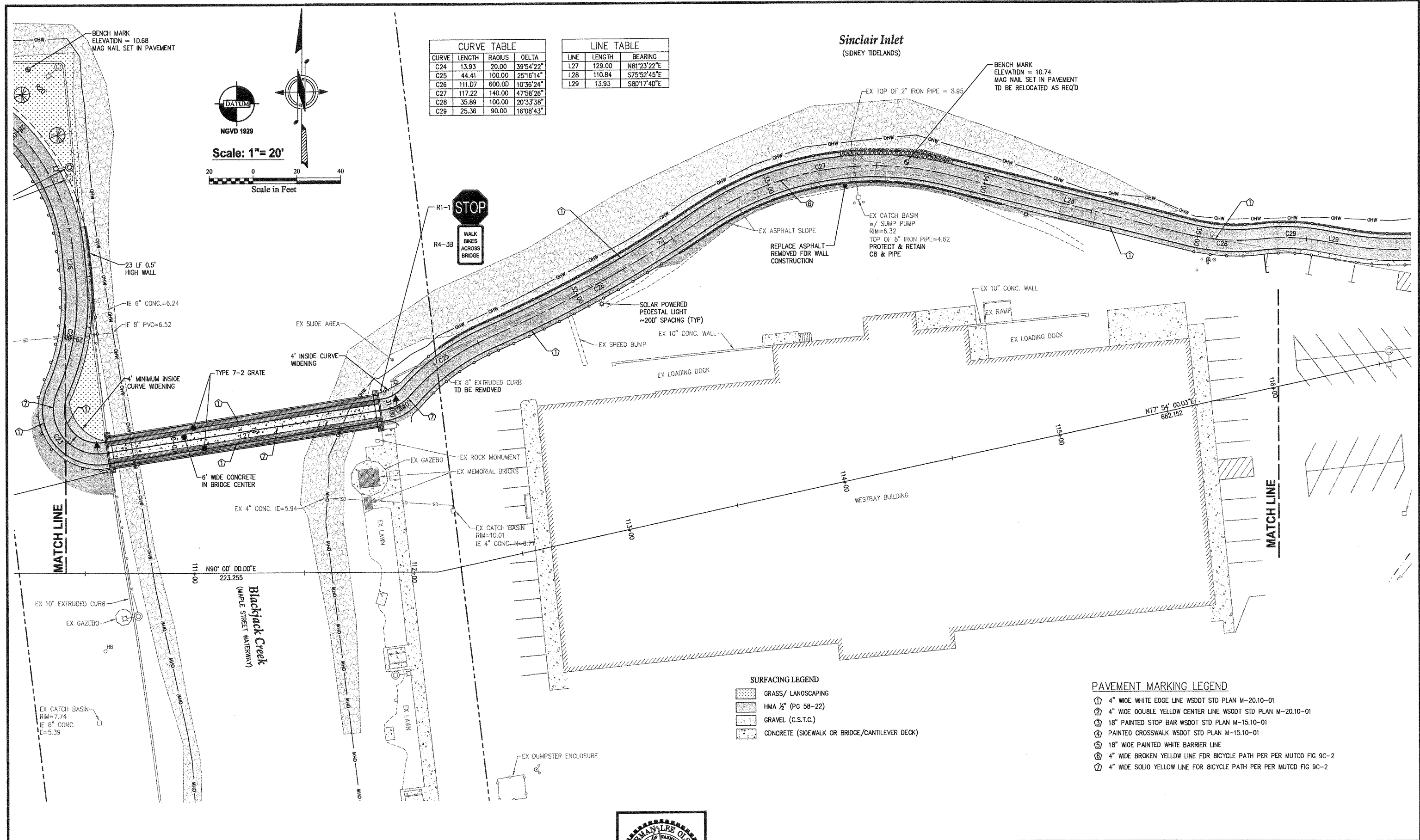
**TRAIL ALIGNMENT AND SURFACING PLAN - BAY FORD**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1"= 20'  
 DATE: Sep. 12, 2011  
 DRAWING NUMBER: **097337-407209**  
 SHEET: C5.3

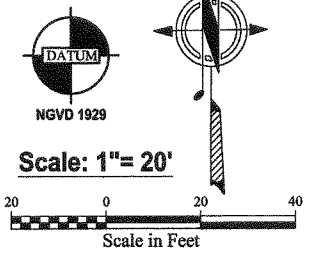
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CURVE	LENGTH	RADIUS	DELTA
C24	13.93	20.00	39°54'22"
C25	44.41	100.00	25°16'14"
C26	111.07	600.00	10°36'24"
C27	117.22	140.00	47°58'26"
C28	35.89	100.00	20°33'38"
C29	25.36	90.00	16°08'43"

LINE	LENGTH	BEARING
L27	129.00	N81°23'22"E
L28	110.84	S75°52'45"E
L29	13.93	S80°17'40"E



Scale: 1"= 20'

Scale in Feet

MATCH LINE

MATCH LINE

**SURFACING LEGEND**

	GRASS/ LANDSCAPING
	HMA 1/2" (PG 58-22)
	GRAVEL (C.S.T.C.)
	CONCRETE (SIDEWALK OR BRIDGE/CANTILEVER DECK)

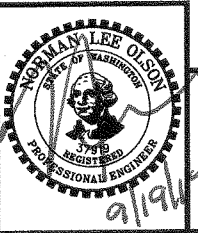
**PAVEMENT MARKING LEGEND**

	4" WIDE WHITE EDGE LINE WSDOT STD PLAN M-20.10-01
	4" WIDE DOUBLE YELLOW CENTER LINE WSDOT STD PLAN M-20.10-01
	18" PAINTED STOP BAR WSDOT STD PLAN M-15.10-01
	PAINTED CROSSWALK WSDOT STD PLAN M-15.10-01
	18" WIDE PAINTED WHITE BARRIER LINE
	4" WIDE BROKEN YELLOW LINE FOR BICYCLE PATH PER MUTCO FIG 9C-2
	4" WIDE SOLID YELLOW LINE FOR BICYCLE PATH PER MUTCO FIG 9C-2

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOII	9/12
APPROVED	
ACCEPTED	

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



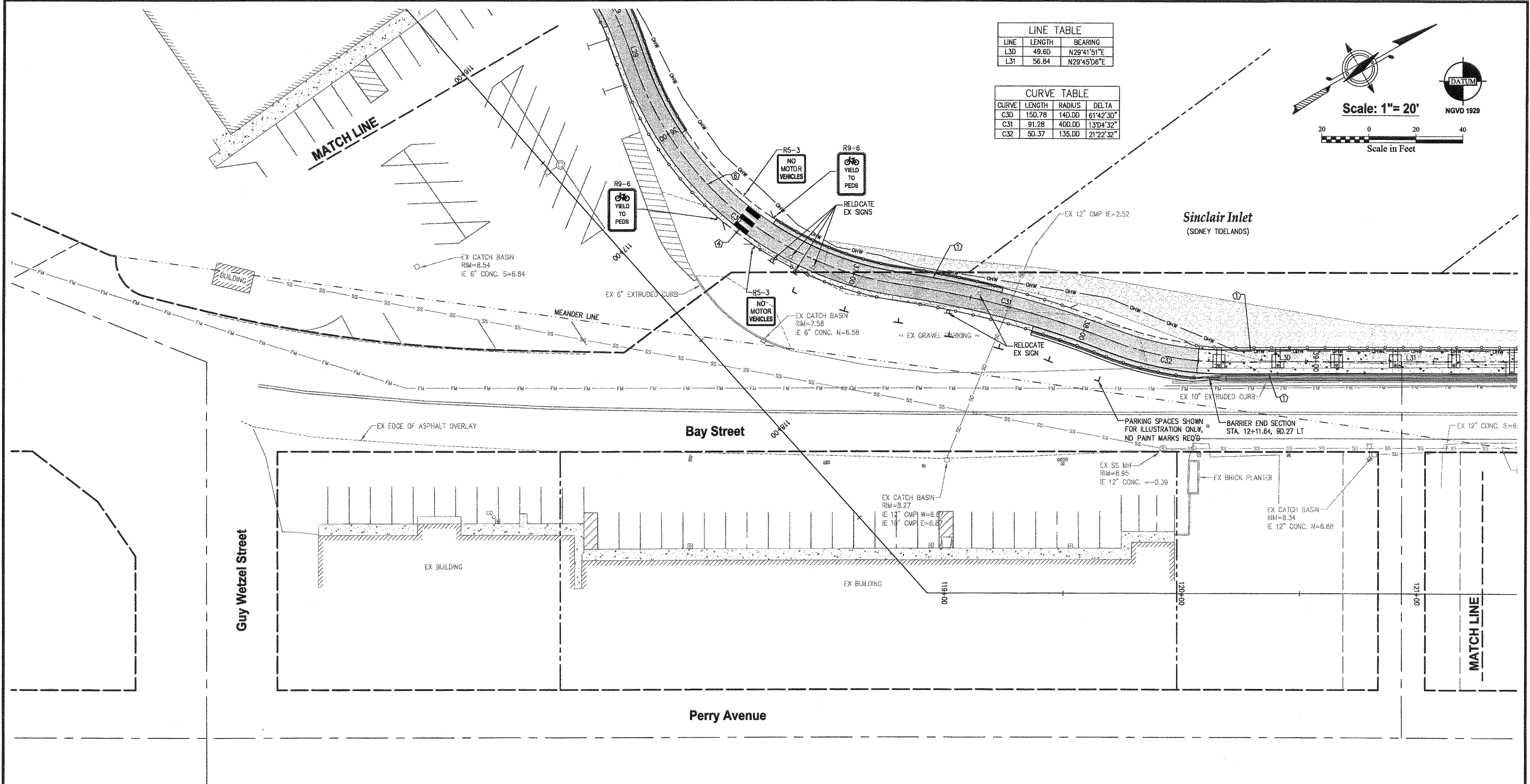
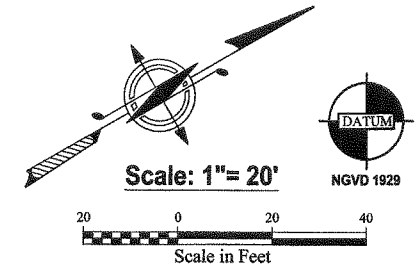
**TRAIL ALIGNMENT AND SURFACING PLAN -BLACKJACK/ WEST BAY**  
 City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1"= 20'  
 DATE: Sep. 12, 2011  
 DRAWING NUMBER  
**097337-407210**  
 SHEET C5.4

LINE TABLE		
LINE	LENGTH	BEARING
L3D	49.60	N29°41'51"E
L31	56.84	N29°45'06"E

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C3D	150.78	140.00	61°42'30"
C31	91.28	400.00	13°04'32"
C32	50.37	135.00	21°22'32"



NOTE: ALL STATIONS REFERENCED FROM A-LINE

**SURFACING LEGEND**

	GRASS/ LANDSCAPING
	HMA 1/2" (PG 58-22)
	GRAVEL (C.S.T.C.)
	CONCRETE (SIDEWALK OR BRIDGE/CANTILEVER DECK)

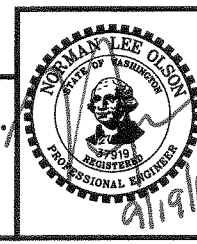
**PAVEMENT MARKING LEGEND**

	4" WIDE WHITE EDGE LINE WSDOT STD PLAN M-20.10-D1
	4" WIDE DOUBLE YELLOW CENTER LINE WSDOT STD PLAN M-20.10-D1
	18" PAINTED STDP BAR WSDOT STD PLAN M-15.10-D1
	PAINTED CROSSWALK WSDOT STD PLAN M-15.10-D1
	18" WIDE PAINTED WHITE BARRIER LINE
	4" WIDE BROKEN YELLOW LINE FOR BICYCLE PATH PER PER MUTCD FIG 9C-2
	4" WIDE SOLID YELLOW LINE FOR BICYCLE PATH PER PER MUTCD FIG 9C-2

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE
RPJ	RPJ	9/12
JAT	JAT	9/12
NLDH	NLDH	9/12

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**TRAIL ALIGNMENT AND SURFACING PLAN -WEST BAY/ BEACH**  
 City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1"= 20'  
 DATE: Sep. 12, 2011  
 DRAWING NUMBER  
**097337-407211**  
 SHEET C5.5

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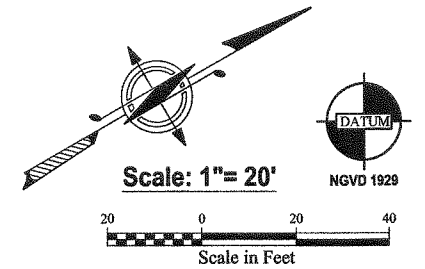
**PAVEMENT MARKING LEGEND**

- ① 4" WIDE WHITE EDGE LINE WSDOT STD PLAN M-20.10-01
- ② 4" WIDE DOUBLE YELLOW CENTER LINE WSDOT STD PLAN M-20.10-01
- ③ 18" PAINTED STDP BAR WSDOT STD PLAN M-15.10-01
- ④ PAINTED CROSSWALK WSDOT STD PLAN M-15.10-01
- ⑤ 18" WIDE PAINTED WHITE BARRIER LINE
- ⑥ 4" WIDE BROKEN YELLOW LINE FOR BICYCLE PATH PER MUTCD FIG 9C-2
- ⑦ 4" WIDE SOLID YELLOW LINE FOR BICYCLE PATH PER MUTCD FIG 9C-2

**SURFACING LEGEND**

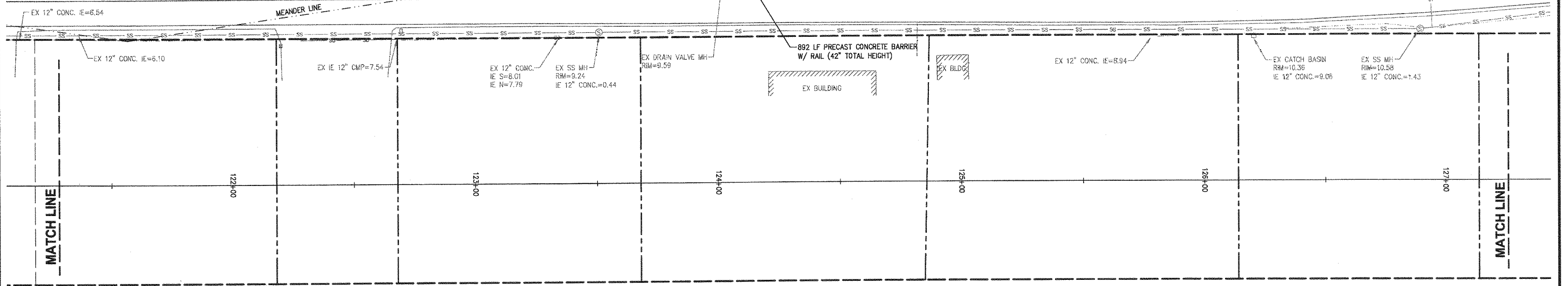
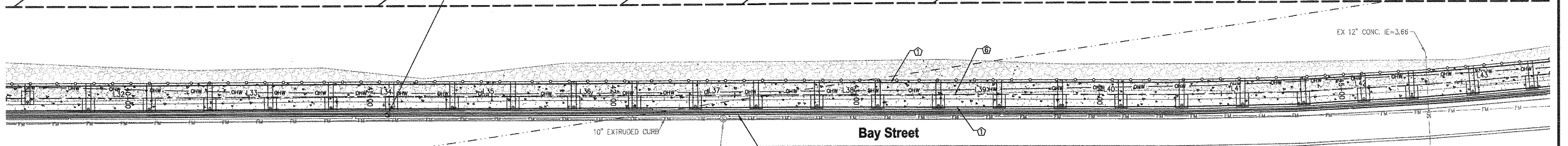
- CRASS/ LANDSCAPING
- HMA 1/2" (PG 58-22)
- GRAVEL (C.S.T.C.)
- CONCRETE (SIDEWALK OR BRIDGE/CANTILEVER DECK)

LINE	LENGTH	BEARING
L32	56.38	N29°41'03"E
L33	54.11	N29°40'50"E
L34	55.84	N29°46'34"E
L35	28.13	N30°02'13"E
L36	51.83	N29°50'12"E
L37	54.05	N30°01'56"E
L38	56.33	N30°08'50"E
L39	53.37	N29°51'06"E
L40	52.24	N30°03'41"E
L41	52.22	N28°46'06"E
L42	50.22	N26°55'03"E
L43	51.77	N25°15'06"E



**Sinclair Inlet**  
(SIDNEY TIOELANDS)

BENCH MARK  
ELEVATION = 8.60  
MAC NAIL SET IN PAVEMENT



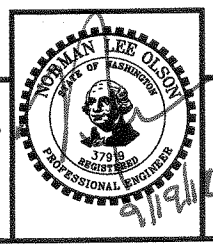
NOTE: ALL STATIONS REFERENCED FROM A-LINE

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLDII	9/12
APPROVED	
ACCEPTED	

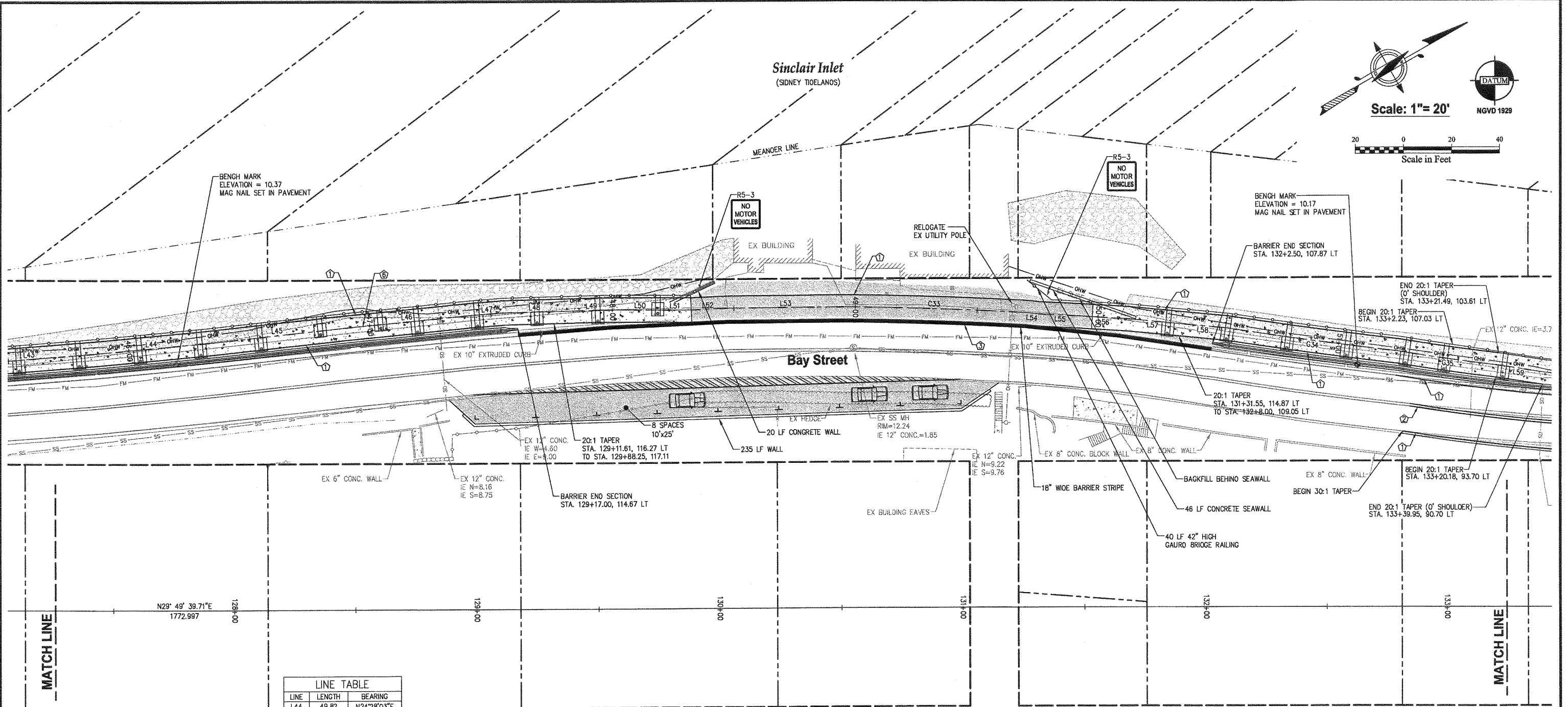
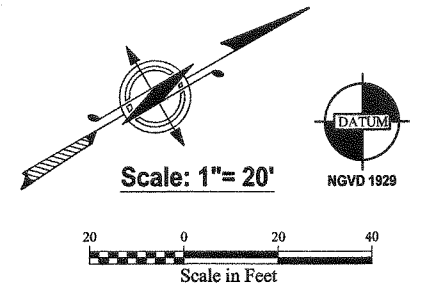
**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**TRAIL ALIGNMENT AND SURFACING PLAN -BAY ST SOUTH**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1"= 20'  
DATE: Sep. 12, 2011  
DRAWING NUMBER  
**097337-407212**  
SHEET C5.6



**LINE TABLE**

LINE	LENGTH	BEARING
L44	49.82	N24°28'03"E
L45	54.02	N23°43'47"E
L46	53.86	N24°12'03"E
L47	11.85	N25°30'46"E
L48	27.12	N28°22'44"E
L49	20.08	N28°36'16"E
L50	20.07	N30°15'42"E
L51	9.53	N30°15'42"E
L52	16.46	N27°23'45"E
L53	47.75	N29°31'07"E
L54	6.09	N35°41'12"E
L55	16.56	N32°49'15"E
L56	20.10	N33°18'28"E
L57	20.08	N35°10'43"E
L58	20.15	N35°12'33"E
L59	19.94	N38°27'02"E

**CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA
C33	75.14	1754.62	3°27'25"
G34	71.99	1889.57	3°58'45"48"
G35	41.28	800.69	0°09'28"

- SURFACING LEGEND**
- GRASS/ LANDSCAPING
  - HMA 1/2 (PG 58-22)
  - GRAVEL (C.S.T.G.)
  - CONCRETE (SICWALK OR BRIDGE/GANTLEVER OEGK)

- PAVEMENT MARKING LEGEND**
- 4" WIDE WHITE EDGE LINE WSDOT STD PLAN M-20.10-01
  - 4" WIDE DOUBLE YELLOW CENTER LINE WSDOT STD PLAN M-20.10-01
  - 18" PAINTED STOP BAR WSDOT STD PLAN M-15.10-01
  - PAINTED GROSSWALK WSDOT STD PLAN M-15.10-01
  - 18" WIDE PAINTED WHITE BARRIER LINE
  - 4" WIDE BROKEN YELLOW LINE FOR BICYCLE PATH PER MUTCO FIG 9C-2
  - 4" WIDE SOLID YELLOW LINE FOR BICYCLE PATH PER MUTCO FIG 9C-2

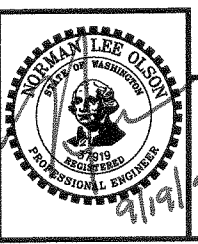
NOTE: ALL STATIONS REFERENCED FROM A-LINE

**REVISIONS**

NO.	DATE	BY	DESCRIPTION

BY DATE  
DESIGNED RPJ 9/12  
DRAWN JAT 9/12  
CHECKED NLOH 9/12  
APPROVED  
ACCEPTED

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

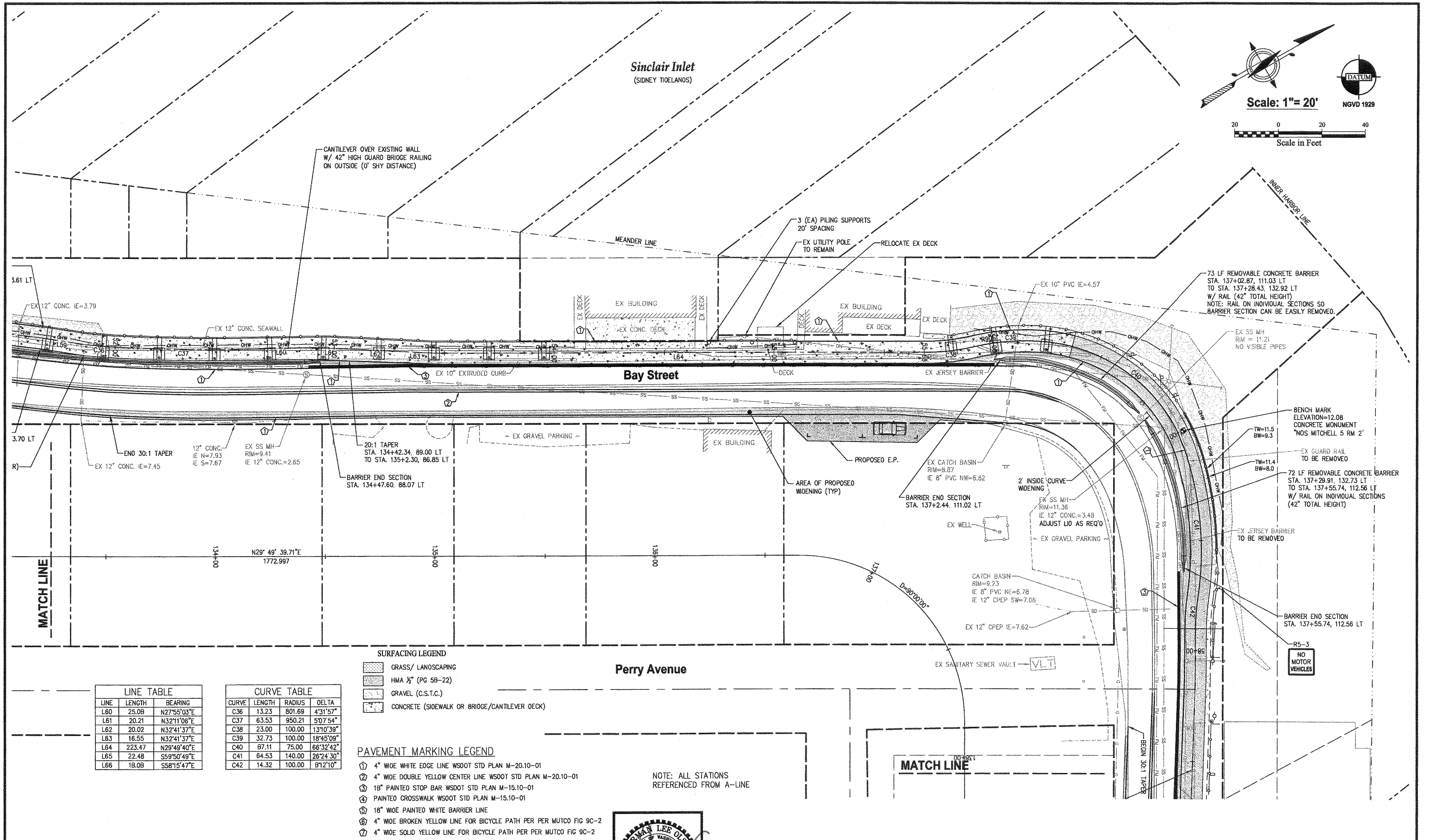
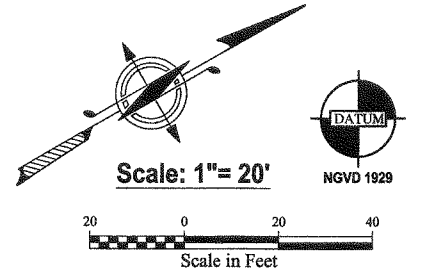


**TRAIL ALIGNMENT AND SURFACING PLAN -BAY ST NORTH**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1" = 20'  
DATE: Sep. 12, 2011  
DRAWING NUMBER  
**097337-407213**  
SHEET C5.7

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**LINE TABLE**

LINE	LENGTH	BEARING
L60	25.08	N27°55'03"E
L61	20.21	N32°11'08"E
L62	20.02	N32°41'37"E
L63	16.55	N32°41'37"E
L64	223.47	N29°49'40"E
L65	22.48	S59°50'49"E
L66	18.08	S58°15'47"E

**CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA
C36	13.23	801.69	4°31'57"
C37	63.53	950.21	5°07'54"
C38	23.00	100.00	13°10'39"
C39	32.73	100.00	18°45'09"
C40	87.11	75.00	66°32'42"
C41	64.53	140.00	26°24'30"
C42	14.32	100.00	8°12'10"

**SURFACING LEGEND**

- GRASS/ LANDSCAPING
- HMA 1/2" (PG 5B-22)
- GRAVEL (C.S.T.C.)
- CONCRETE (SIDEWALK OR BRIDGE/CANTILEVER DECK)

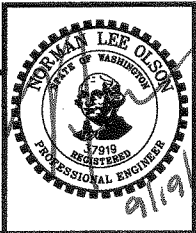
**PAVEMENT MARKING LEGEND**

- ① 4" WIDE WHITE EDGE LINE WSDOT STD PLAN M-20.10-01
- ② 4" WIDE DOUBLE YELLOW CENTER LINE WSDOT STD PLAN M-20.10-01
- ③ 18" PAINTED STOP BAR WSDOT STD PLAN M-15.10-01
- ④ PAINTED CROSSWALK WSDOT STD PLAN M-15.10-01
- ⑤ 18" WIDE PAINTED WHITE BARRIER LINE
- ⑥ 4" WIDE BROKEN YELLOW LINE FOR BICYCLE PATH PER PER MUTCO FIG 9C-2
- ⑦ 4" WIDE SOLID YELLOW LINE FOR BICYCLE PATH PER PER MUTCO FIG 9C-2

NOTE: ALL STATIONS REFERENCED FROM A-LINE

REVISIONS			
NO.	DATE	BY	DESCRIPTION

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**TRAIL ALIGNMENT AND SURFACING PLAN -BAY ST CORNER**  
 City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1" = 20'
DATE: Sep. 12, 2011
DRAWING NUMBER
<b>097337-407214</b>
SHEET C5.8

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**PAVEMENT MARKING LEGEND**

- ① 4" WIDE WHITE EDGE LINE WSOOT STD PLAN M-20.10-01
- ② 4" WIDE DOUBLE YELLOW CENTER LINE WSOOT STD PLAN M-20.10-01
- ③ 18" PAINTED STOP BAR WSOOT STD PLAN M-15.10-01
- ④ PAINTED CROSSWALK WSOOT STD PLAN M-15.10-01
- ⑤ 18" WIDE PAINTED WHITE BARRIER LINE
- ⑥ 4" WIDE BROKEN YELLOW LINE FOR BICYCLE PATH PER MUTCO FIG 9C-2
- ⑦ 4" WIDE SOLID YELLOW LINE FOR BICYCLE PATH PER MUTCO FIG 9C-2

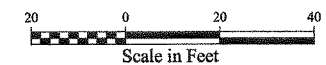
LINE	LENGTH	BEARING
L67	115.58	S58°15'47"E
L68	84.74	S80°10'20"E
L89	46.69	S58°15'19"E
L70	11.26	S60°10'20"E
L71	141.15	S60°10'20"E
L72	79.63	S60°10'20"E
L73	22.90	S60°10'20"E
L74	31.41	S62°35'05"E
L75	14.97	S65°18'35"E

CURVE	LENGTH	RADIUS	DELTA
C43	31.59	668.00	0°42'00"
C44	54.83	204.00	15°24'05"



NGVD 1929

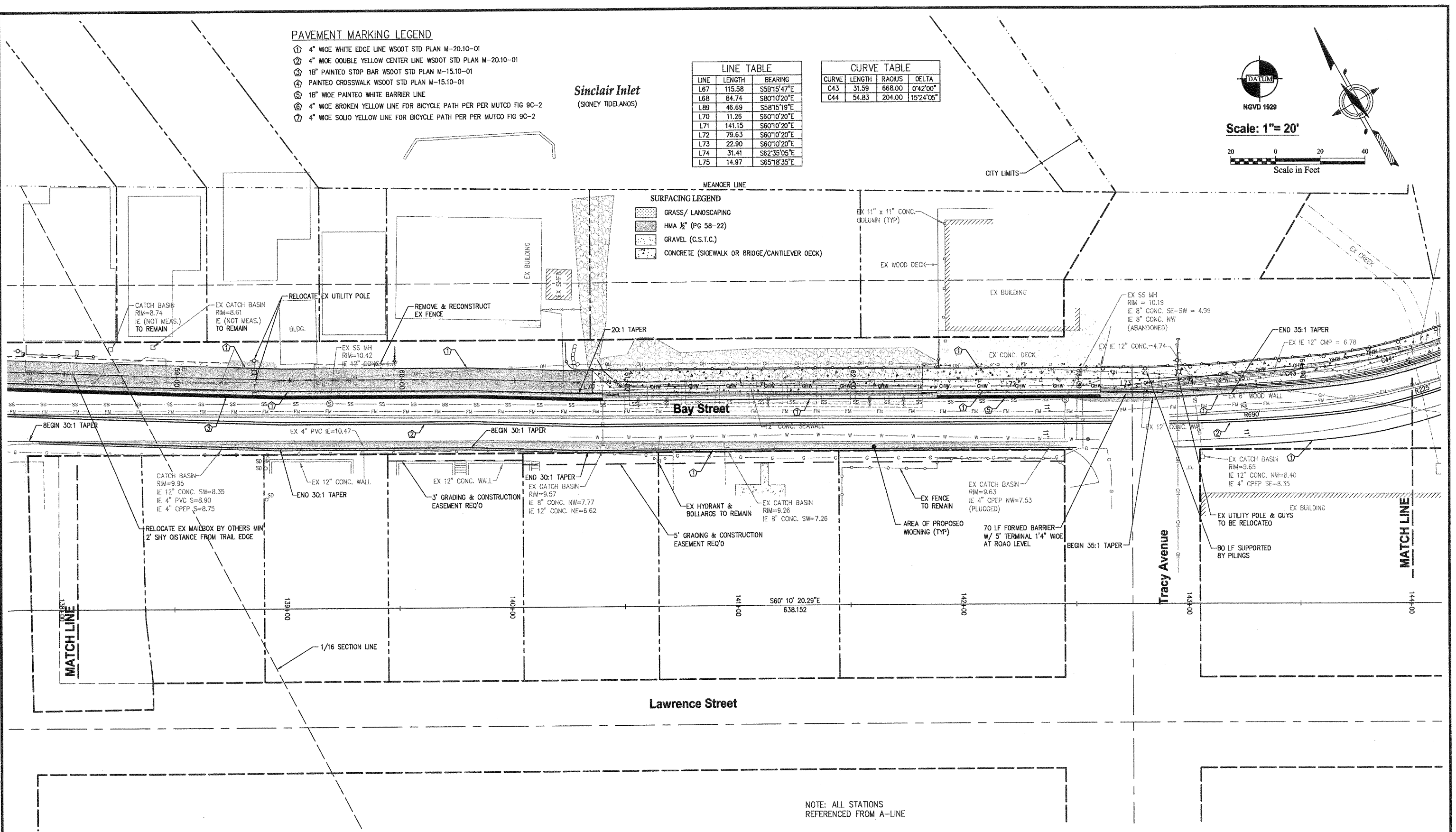
Scale: 1" = 20'



Sinclair Inlet  
(SONEY TIDELANOS)

**SURFACING LEGEND**

	GRASS/ LANDSCAPING
	HMA 1/2" (PG 58-22)
	GRAVEL (C.S.T.C.)
	CONCRETE (SIDEWALK OR BRIDGE/CANTILEVER DECK)



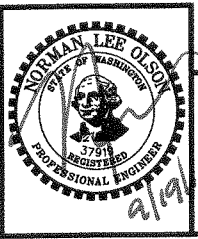
NOTE: ALL STATIONS REFERENCED FROM A-LINE

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE
	RPJ	9/12
	JAT	9/12
	NLO	9/12

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**TRAIL ALIGNMENT AND SURFACING PLAN -BAY ST/ TRACY**  
 City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

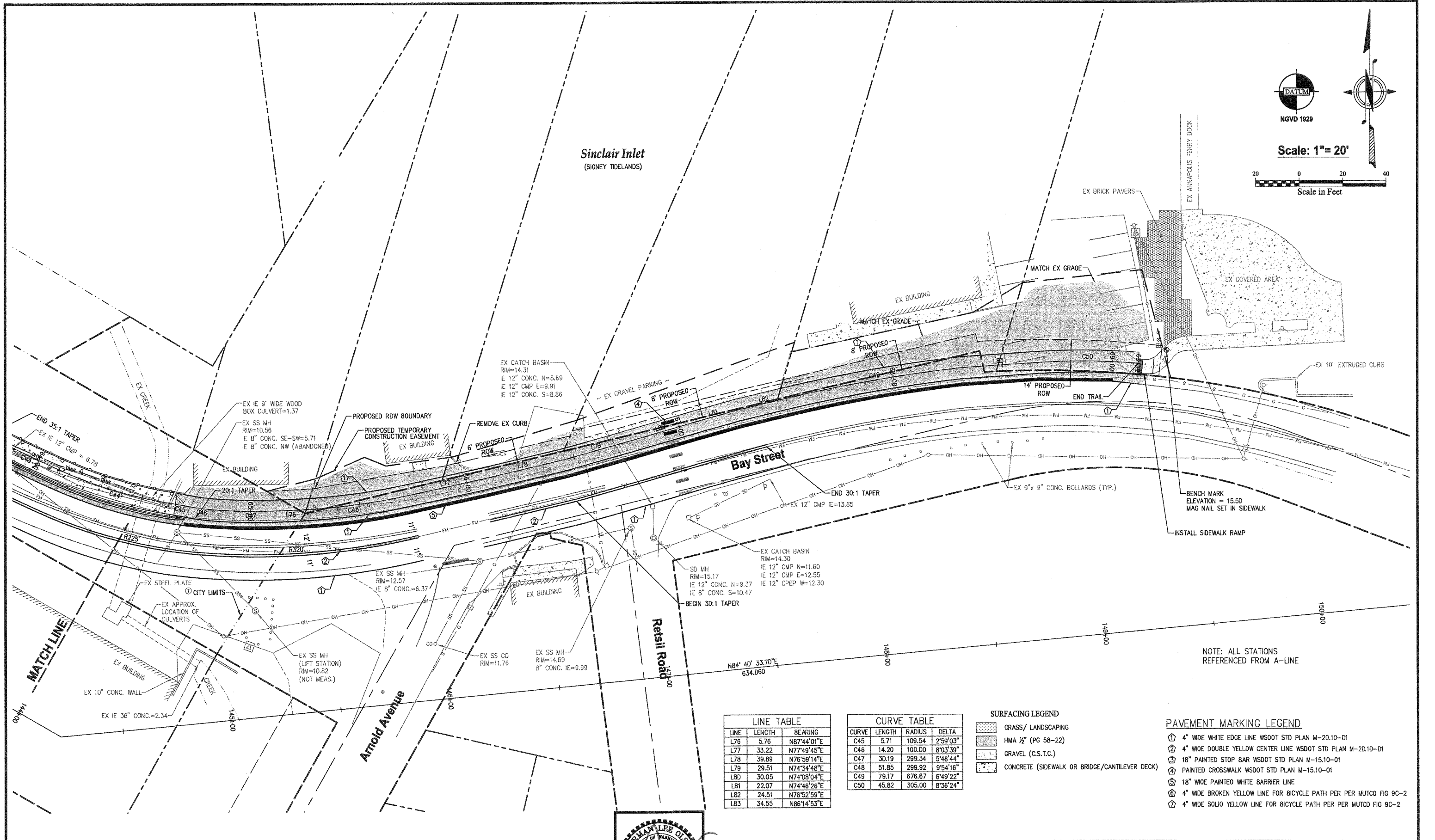
FOR: **City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1" = 20'  
 DATE: Sep. 12, 2011  
 DRAWING NUMBER: **097337-407215**  
 SHEET: C5.9





Scale: 1" = 20'



**LINE TABLE**

LINE	LENGTH	BEARING
L76	5.76	N87°44'01"E
L77	33.22	N77°49'45"E
L78	39.89	N76°59'14"E
L79	29.51	N74°34'48"E
L80	30.05	N74°08'04"E
L81	22.07	N74°46'26"E
L82	24.51	N76°52'59"E
L83	34.55	N86°14'53"E

**CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA
C45	5.71	109.54	2°59'03"
C46	14.20	100.00	8°03'39"
C47	30.19	299.34	5°46'44"
C48	51.85	299.92	9°54'16"
C49	79.17	676.67	6°49'22"
C50	45.82	305.00	8°36'24"

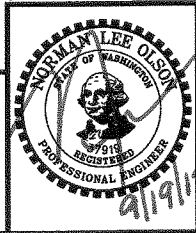
- SURFACING LEGEND**
- GRASS/ LANDSCAPING
  - HMA 1/2" (PG 58-22)
  - GRAVEL (C.S.T.C.)
  - CONCRETE (SIDEWALK OR BRIDGE/CANTILEVER DECK)

- PAVEMENT MARKING LEGEND**
- 4" WIDE WHITE EDGE LINE WSDOT STD PLAN M-20.10-D1
  - 4" WIDE DOUBLE YELLOW CENTER LINE WSDOT STD PLAN M-20.1D-D1
  - 18" PAINTED STOP BAR WSDOT STD PLAN M-15.10-01
  - PAINTED CROSSWALK WSDOT STD PLAN M-15.10-01
  - 18" WIDE PAINTED WHITE BARRIER LINE
  - 4" WIDE BROKEN YELLOW LINE FOR BICYCLE PATH PER MUTCO FIG 9C-2
  - 4" WIDE SOLID YELLOW LINE FOR BICYCLE PATH PER MUTCO FIG 9C-2

**REVISIONS**

NO.	DATE	BY	DESCRIPTION

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**TRAIL ALIGNMENT AND SURFACING PLAN - BAY ST/ RETSILL**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail  
 Situate Within Gov't Lots 1, 2, 3 and 4, Section 25 and within Gov't Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1" = 20'  
 DATE: Sep. 12, 2011  
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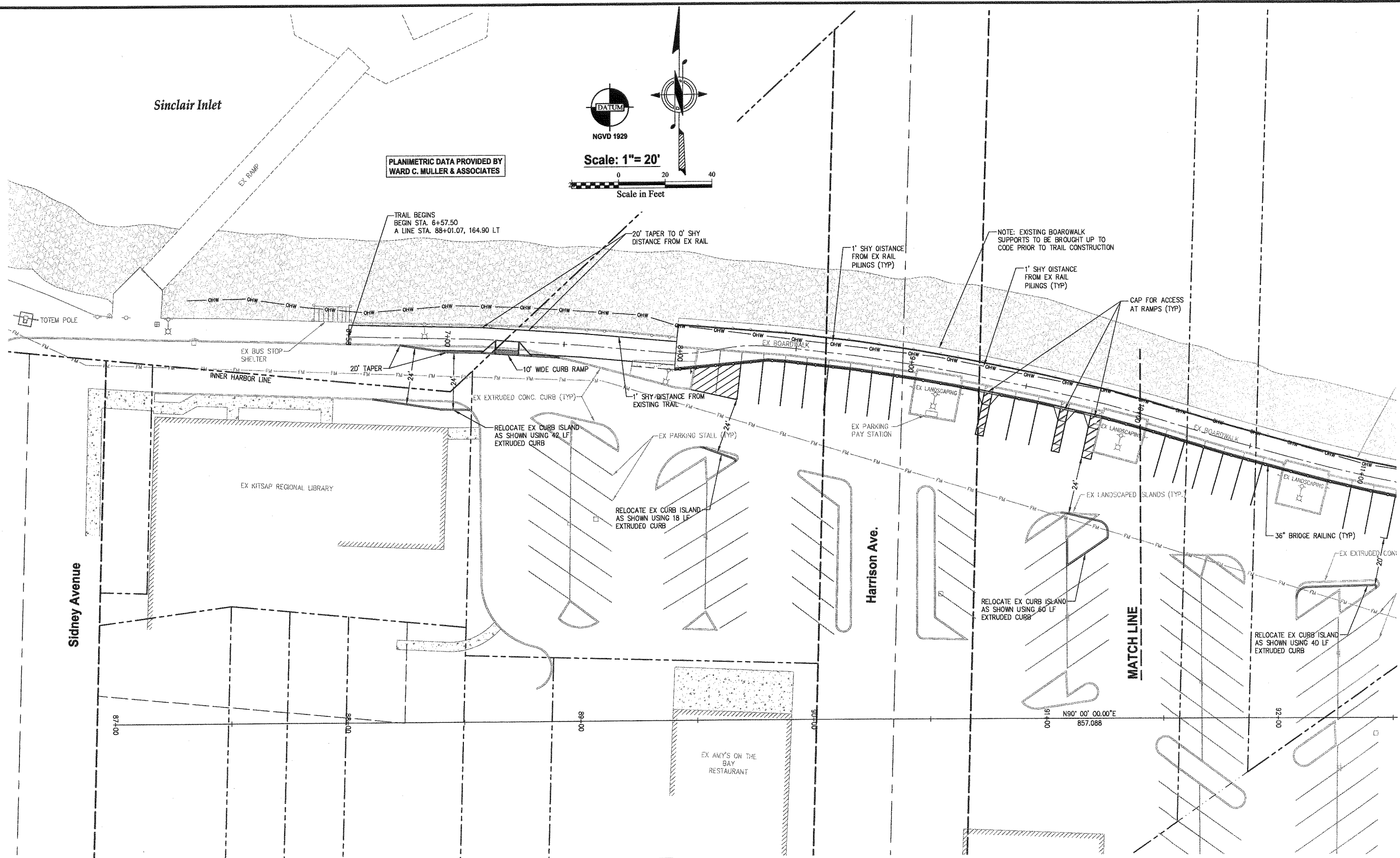
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Sinclair Inlet

PLANIMETRIC DATA PROVIDED BY  
WARD C. MULLER & ASSOCIATES



Scale: 1" = 20'

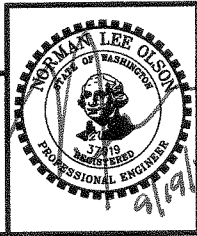


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REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOI	9/12
APPROVED	
ACCEPTED	

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**STORM AND GRADING PLAN -MARINA BOARDWALK**

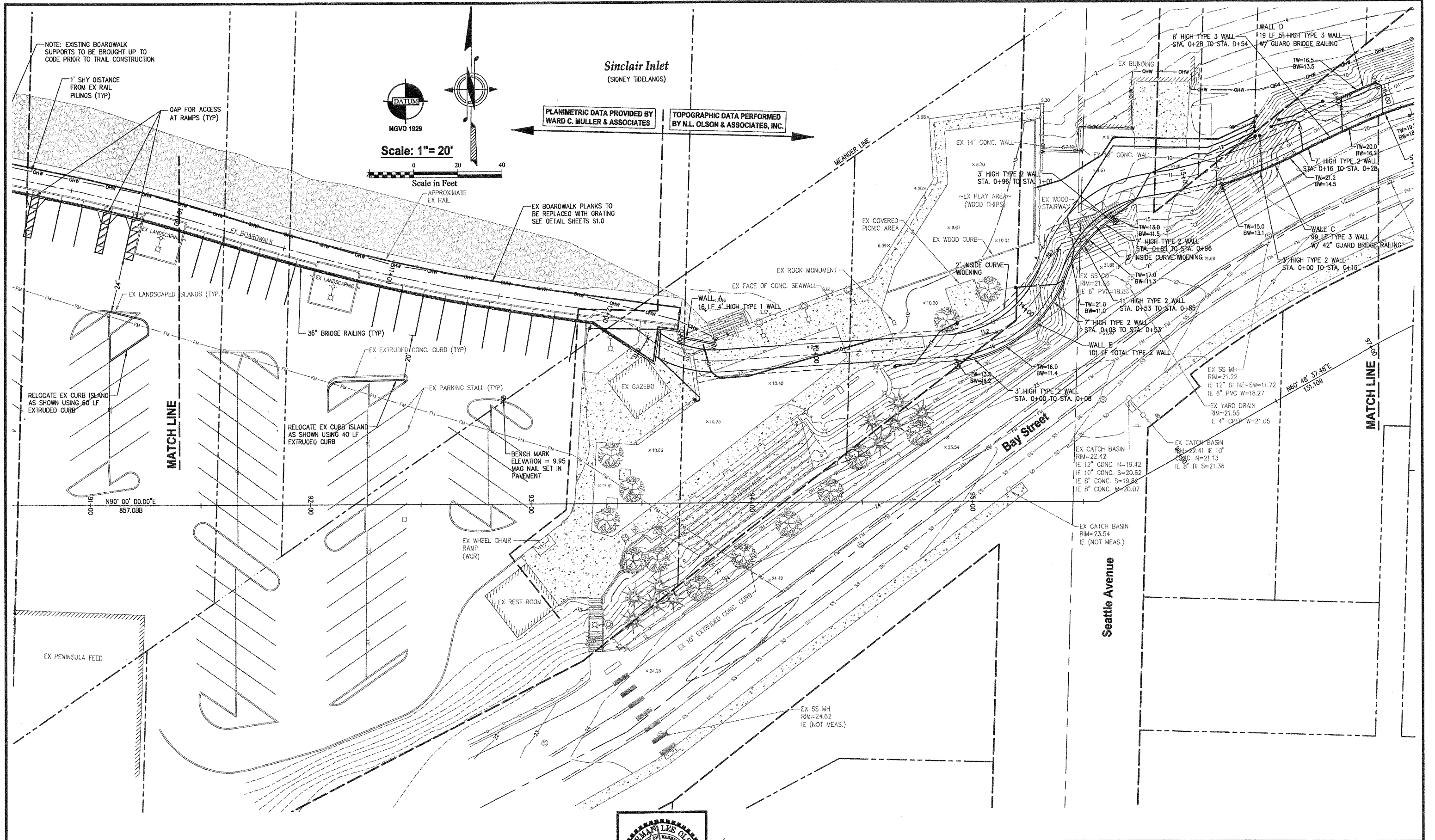
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail

Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:

**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

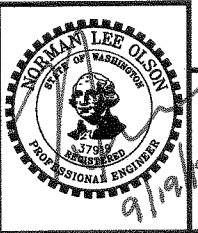
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DRAWING NUMBER  
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SHEET C6.0



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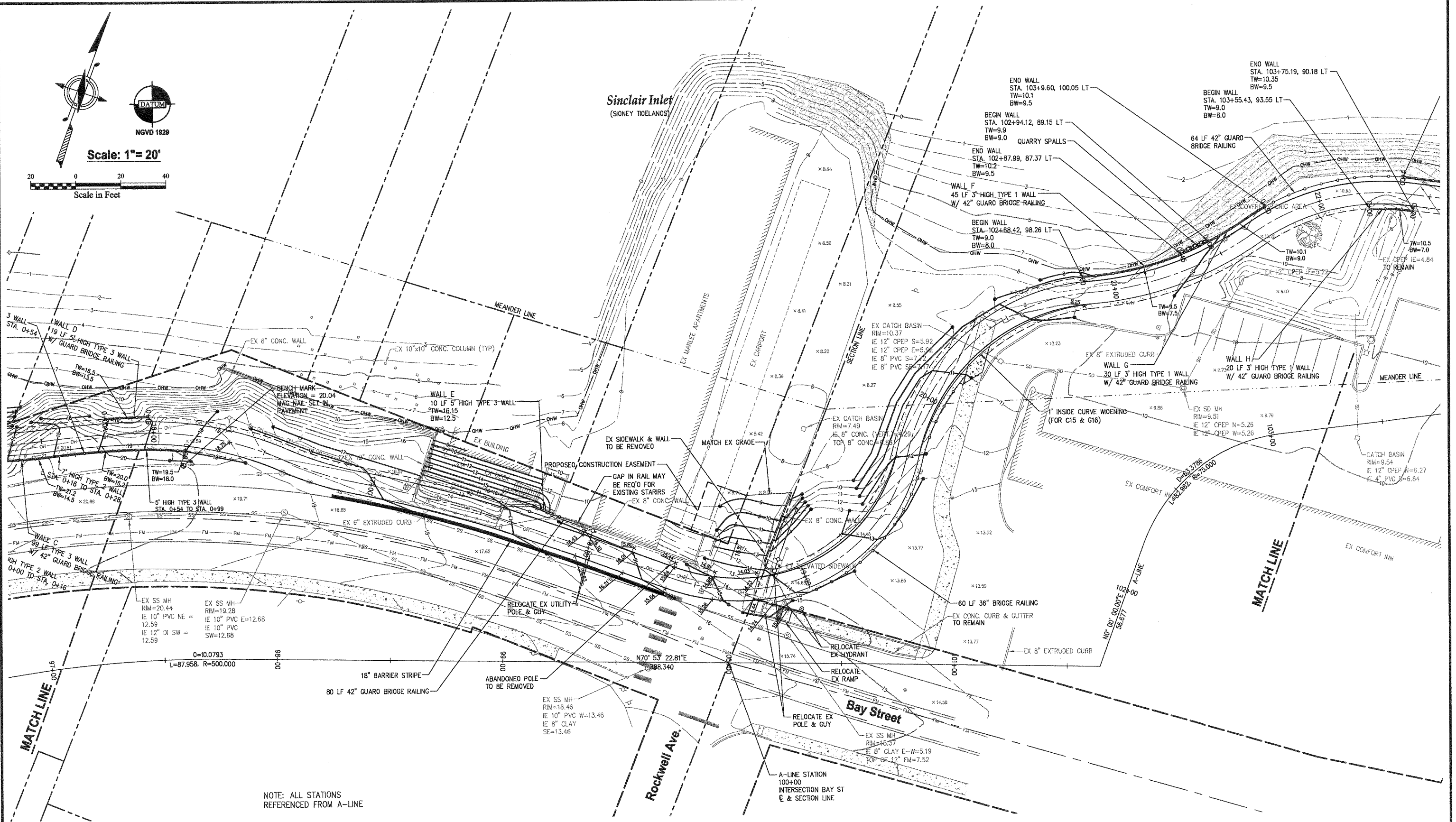
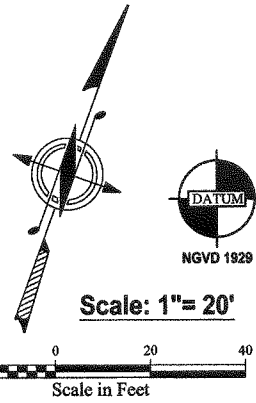
REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOH	9/12
APPROVED	
ACCEPTED	



**STORM AND GRADING PLAN - WATERFRONT PARK**  
 City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
 Situate Within Gov't Lots 1, 2, 3 and 4, Section 25 and within Gov't Lots 3 and 4, Section 26,  
 Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:	<b>City of Port Orchard</b> 216 Prospect Street Port Orchard, WA 98366
SCALE:	1"=20'
DATE:	Sep. 12, 2011
DRAWING NUMBER:	<b>097337-407218</b>
SHEET:	C6.1

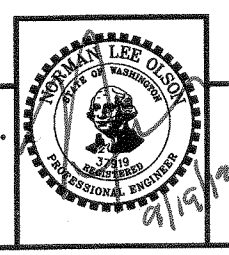


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REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOI	9/12
APPROVED	
ACCEPTED	

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

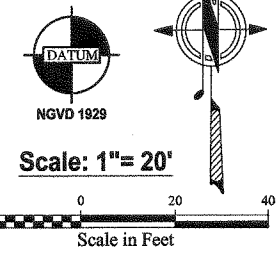


**STORM AND GRADING PLAN - ROCKWELL**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
 Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

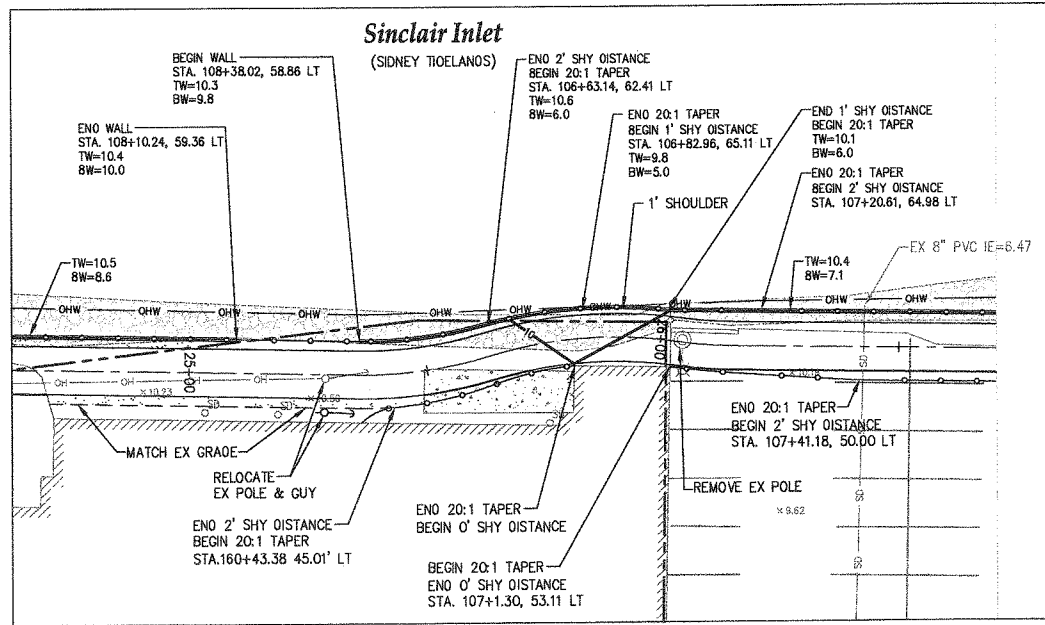
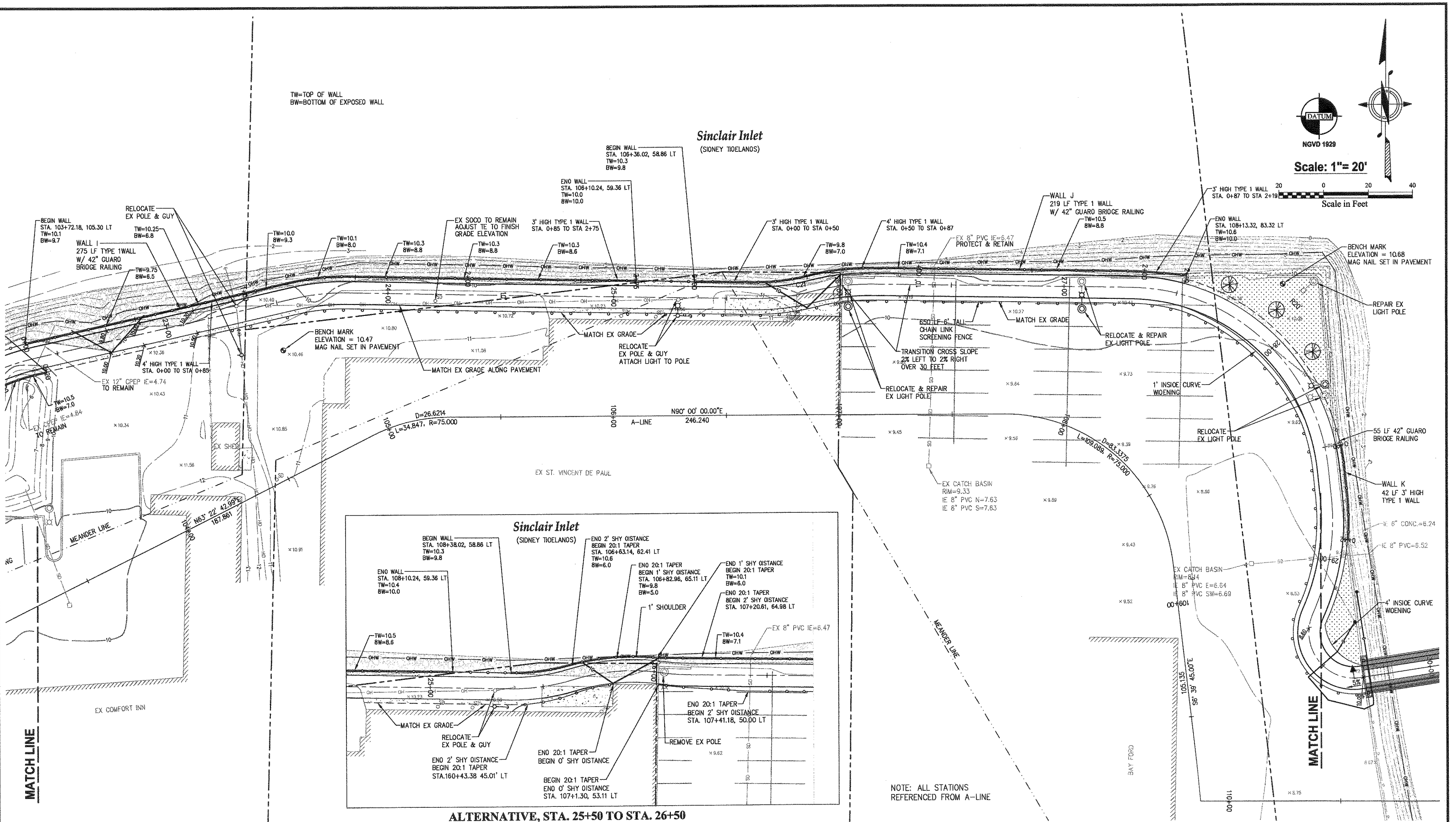
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TW=TOP OF WALL  
BW=BOTTOM OF EXPOSED WALL

**Sinclair Inlet**  
(SIDNEY TOELANOS)



ALTERNATIVE, STA. 25+50 TO STA. 26+50

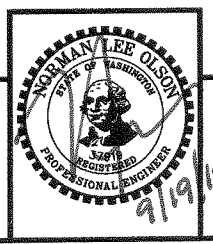
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REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY DATE  
 DESIGNED RPJ 9/12  
 DRAWN JAT 9/12  
 CHECKED NLOH 9/12  
 APPROVED  
 ACCEPTED

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

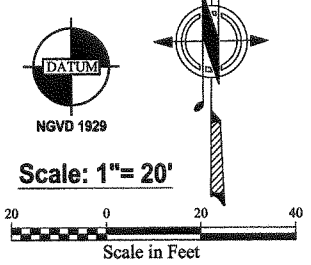
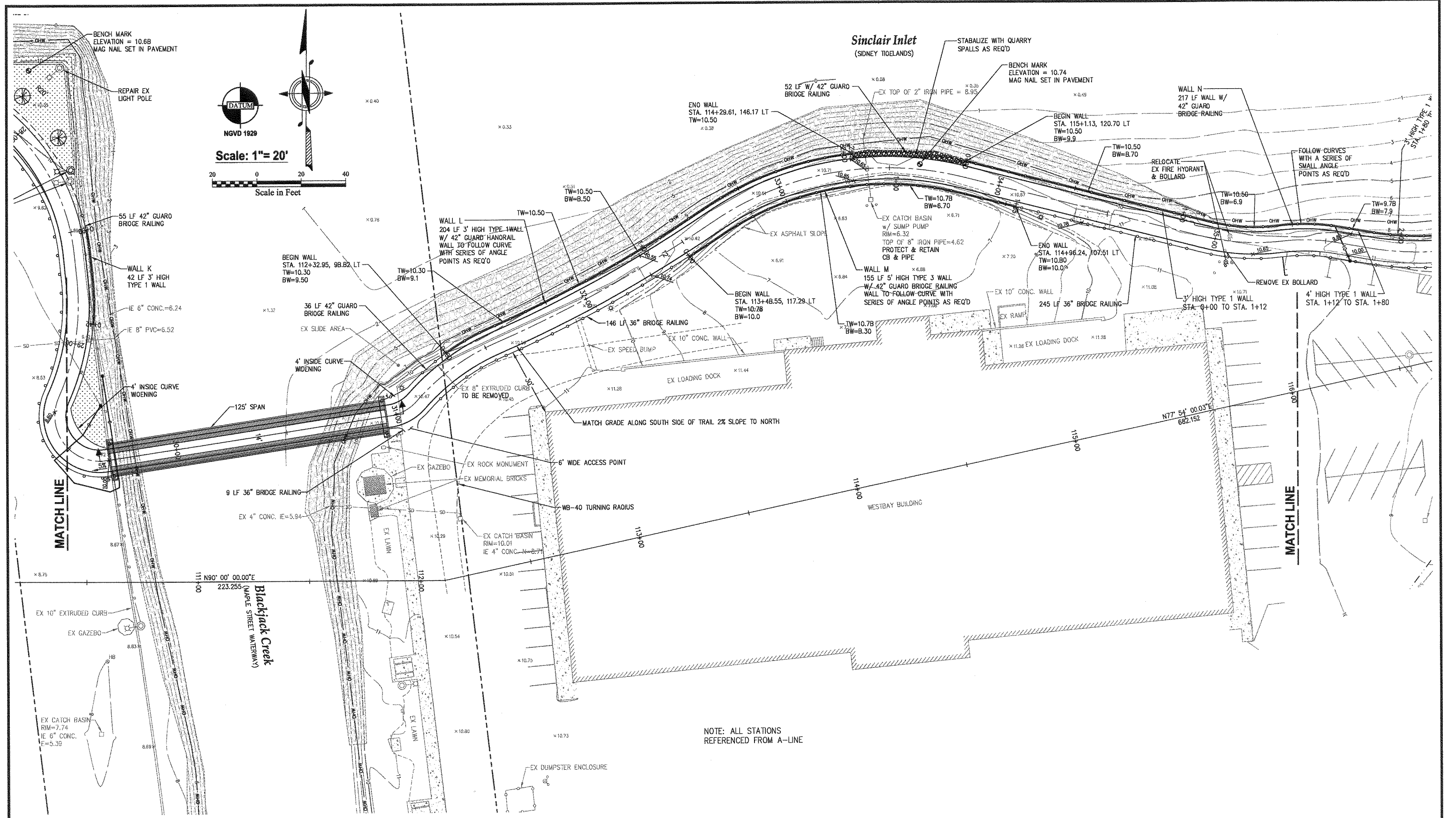


**STORM AND GRADING PLAN -BAY FORD**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail

Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1"= 20'
DATE: Sep. 12, 2011
DRAWING NUMBER <b>097337-407220</b>
SHEET C6.3



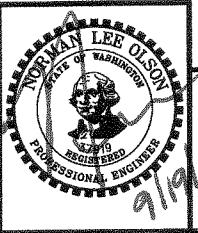
NOTE: ALL STATIONS REFERENCED FROM A-LINE

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOII	9/12
APPROVED	
ACCEPTED	

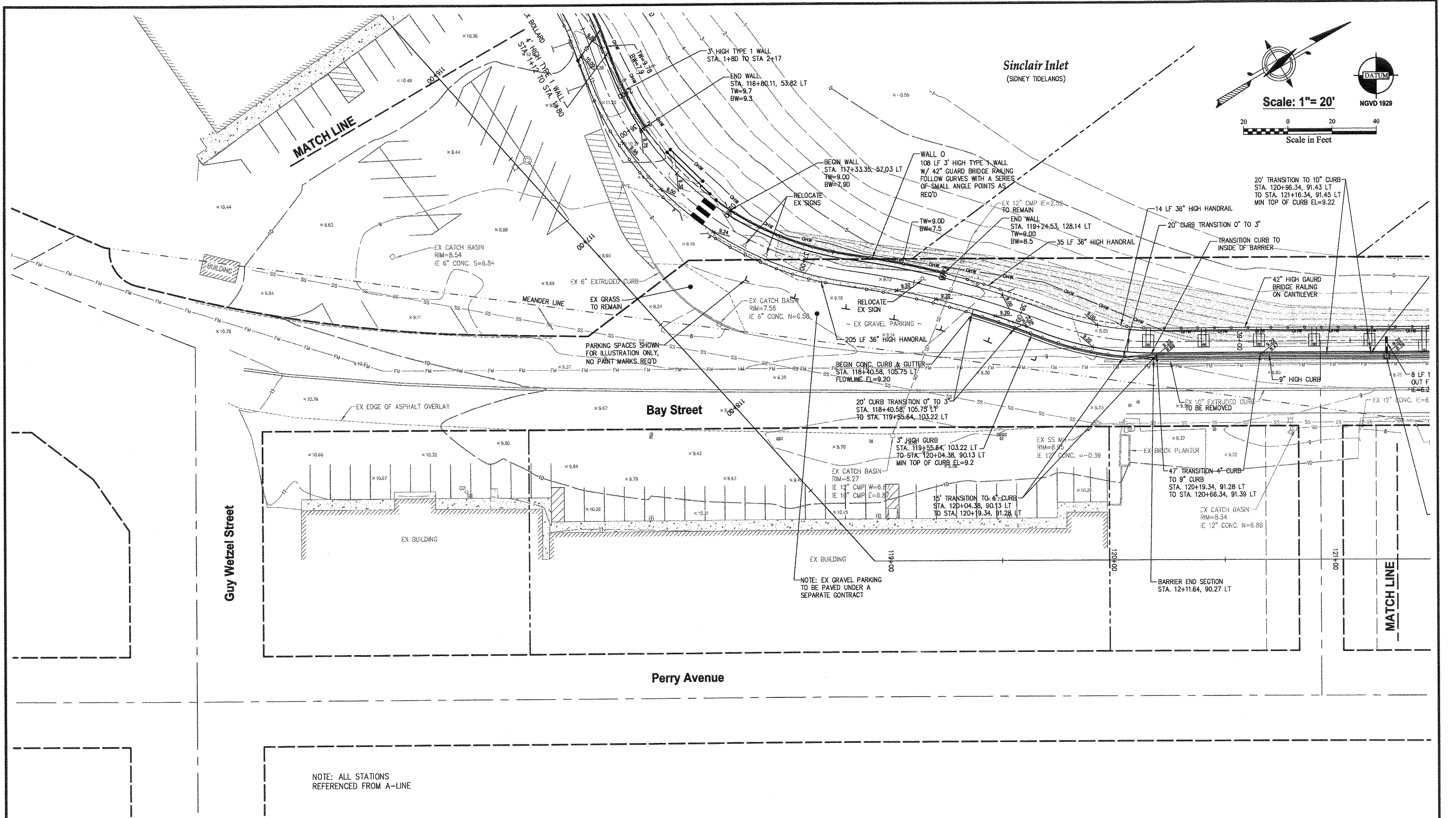
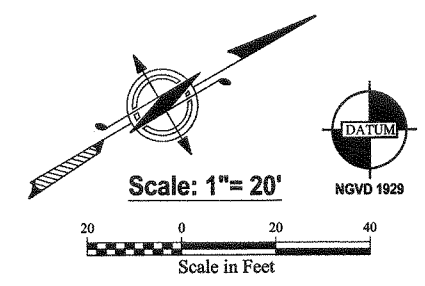
**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**STORM & GRADING PLAN - BLACKJACK/ WEST BAY**  
 City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
 Situate Within Gov't Lots 1, 2, 3 and 4, Section 25 and within Gov't Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1" = 20'  
 DATE: Sep. 12, 2011  
 DRAWING NUMBER: **097337-407221**  
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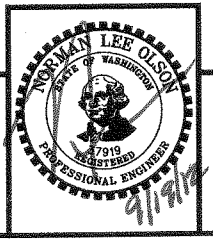
NOTE: ALL STATIONS REFERENCED FROM A-LINE

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	RPJ	9/12
DRAWN	JAT	9/12
CHECKED	NLOH	9/12
APPROVED		
ACCEPTED		

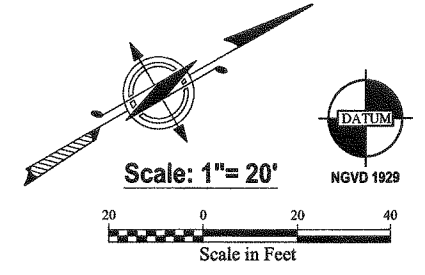
**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



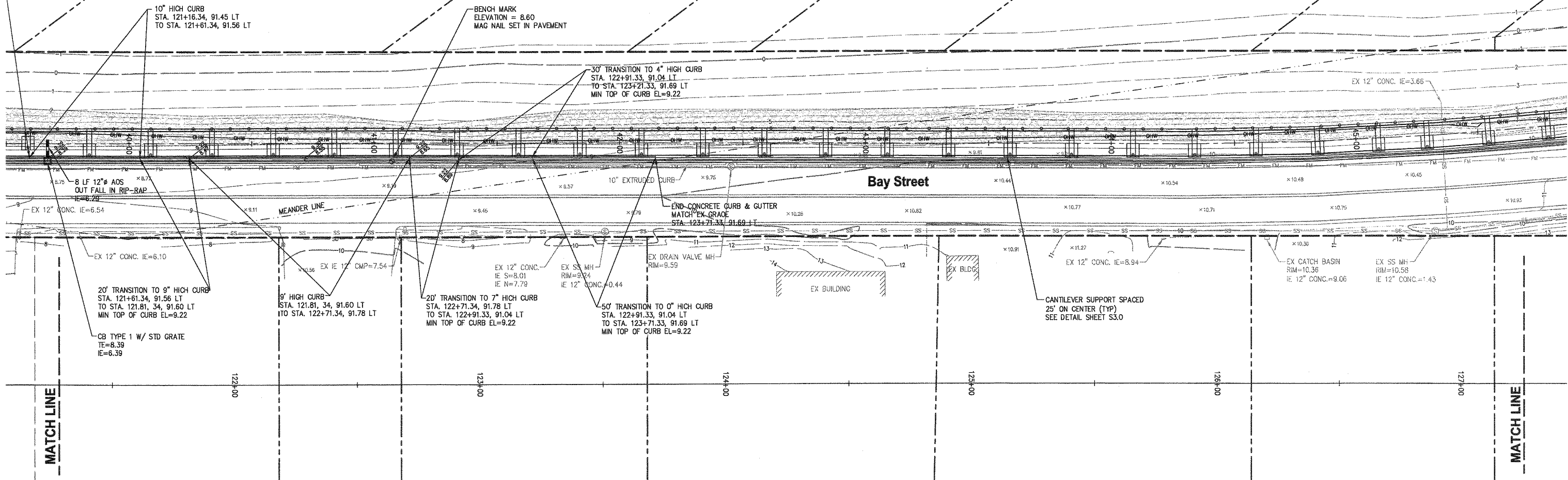
**STORM AND GRADING PLAN WEST BAY/ BEACH**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1"= 20'  
DATE: Sep. 12, 2011  
DRAWING NUMBER  
**097337-407222**  
SHEET C6.5



Sinclair Inlet  
(SIDNEY TIDELANDS)



Bay Street

Perry Avenue

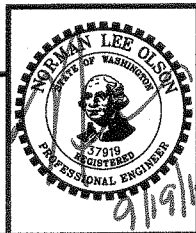
NOTE: ALL STATIONS REFERENCED FROM A-LINE

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE
RPJ	RPJ	9/12
JAT	JAT	9/12
NLOI	NLOI	9/12

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

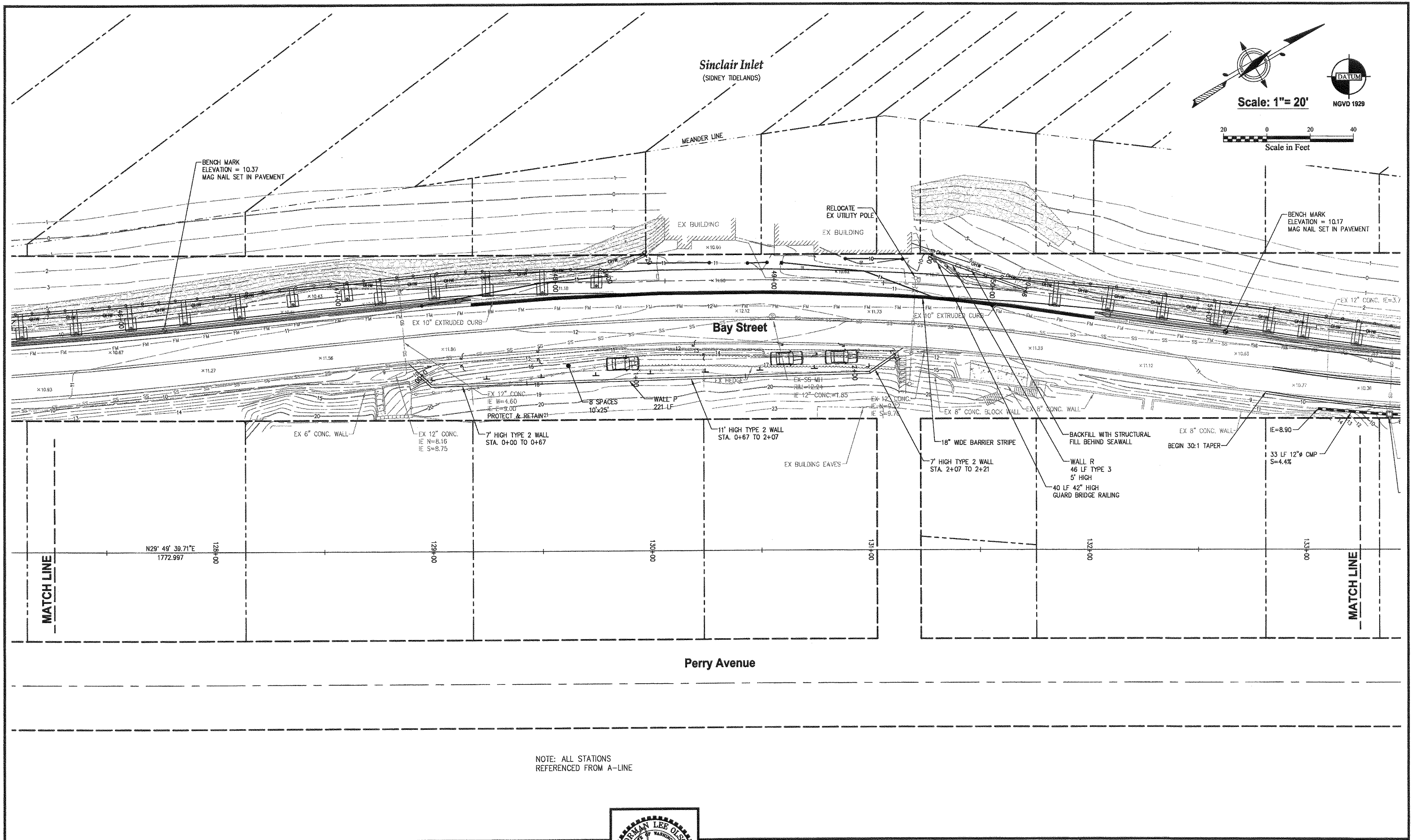
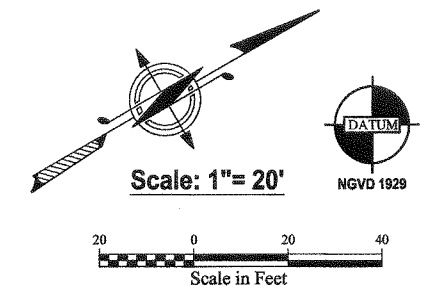


**STORM AND GRADING PLAN - BAY ST SOUTH**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1"= 20'  
DATE: Sep. 12, 2011  
DRAWING NUMBER  
**097337-407223**  
SHEET C6.6



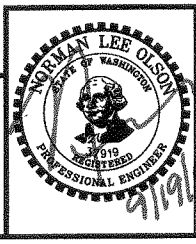


NOTE: ALL STATIONS REFERENCED FROM A-LINE

REVISIONS			
NO.	DATE	BY	DESCRIPTION

	BY	DATE
DESIGNED	RPJ	9/12
DRAWN	JAT	9/12
CHECKED	NLOI	9/12
APPROVED		
ACCEPTED		

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

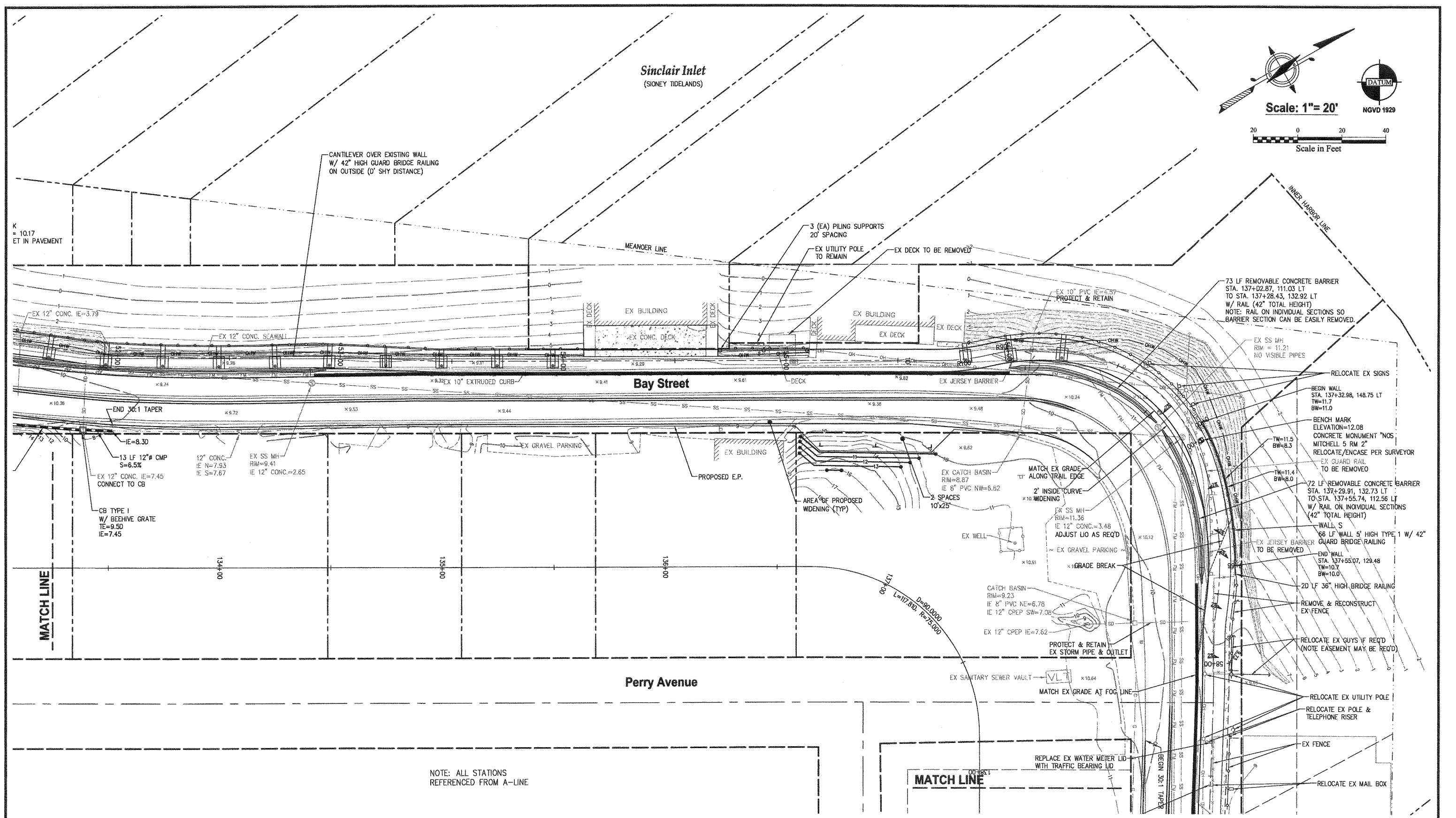
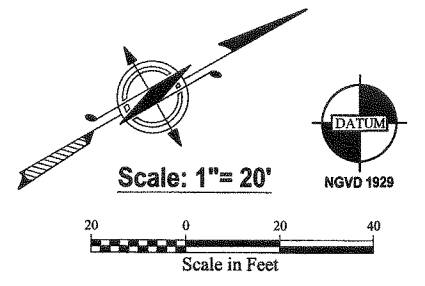


**STORM AND GRADING PLAN - BAY ST NORTH**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1" = 20'  
 DATE: Sep. 12, 2011  
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**097337-407224**  
 SHEET C6.7

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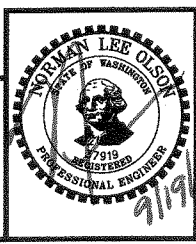


NOTE: ALL STATIONS REFERENCED FROM A-LINE

REVISIONS			
NO.	DATE	BY	DESCRIPTION

	BY	DATE
DESIGNED	RPJ	9/12
DRAWN	JAT	9/12
CHECKED	NLOI	9/12
APPROVED		
ACCEPTED		

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**STORM AND GRADING PLAN BAY ST CORNER**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

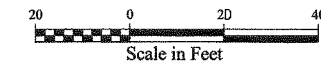
FOR: **City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1" = 20'  
DATE: Sep. 12, 2011  
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SHEET: C6.8

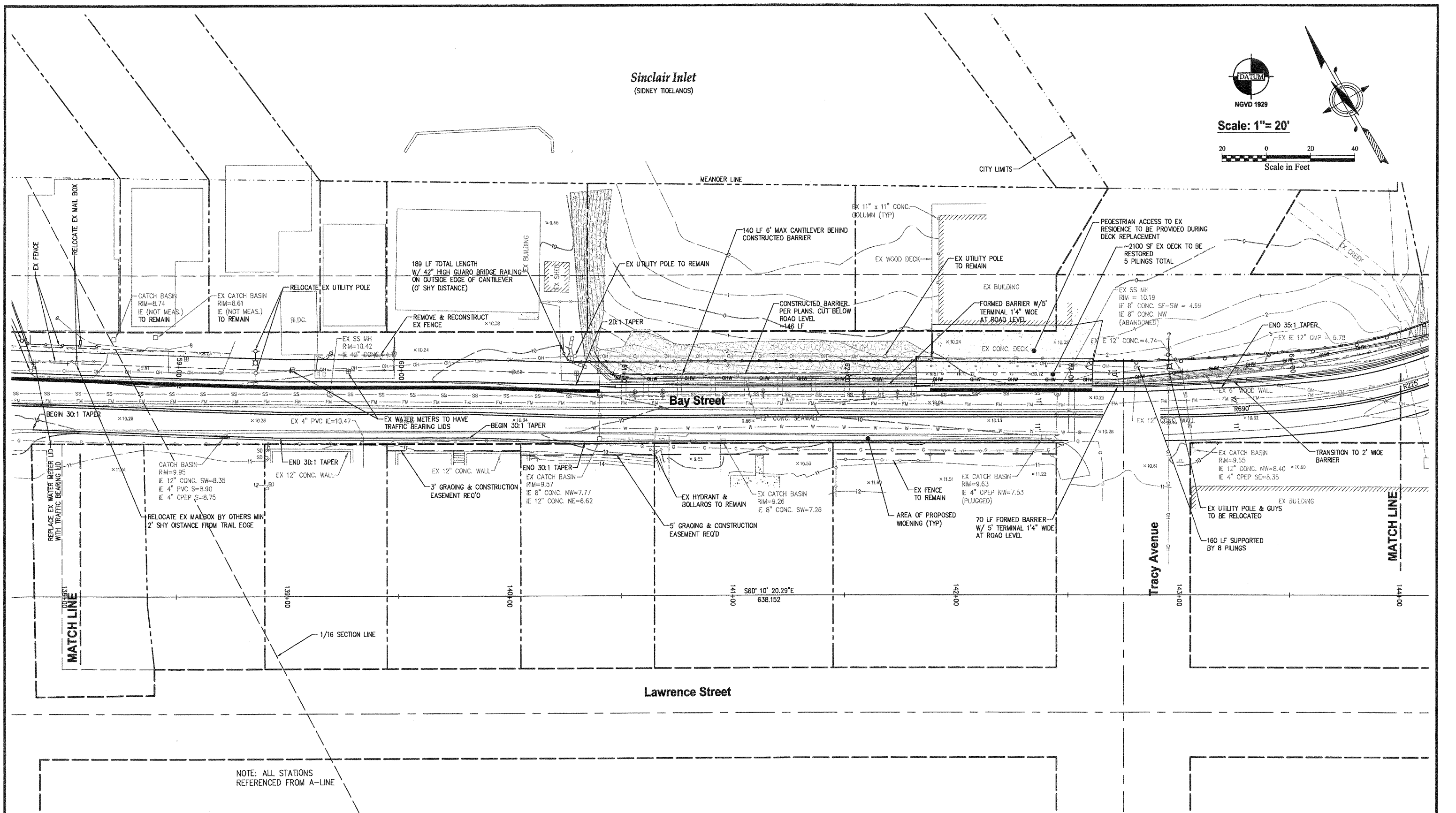
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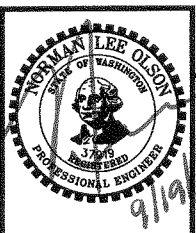
Sinclair Inlet  
(SIDNEY TIOELANOS)



NOTE: ALL STATIONS REFERENCED FROM A-LINE

REVISIONS			
NO.	DATE	BY	DESCRIPTION

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

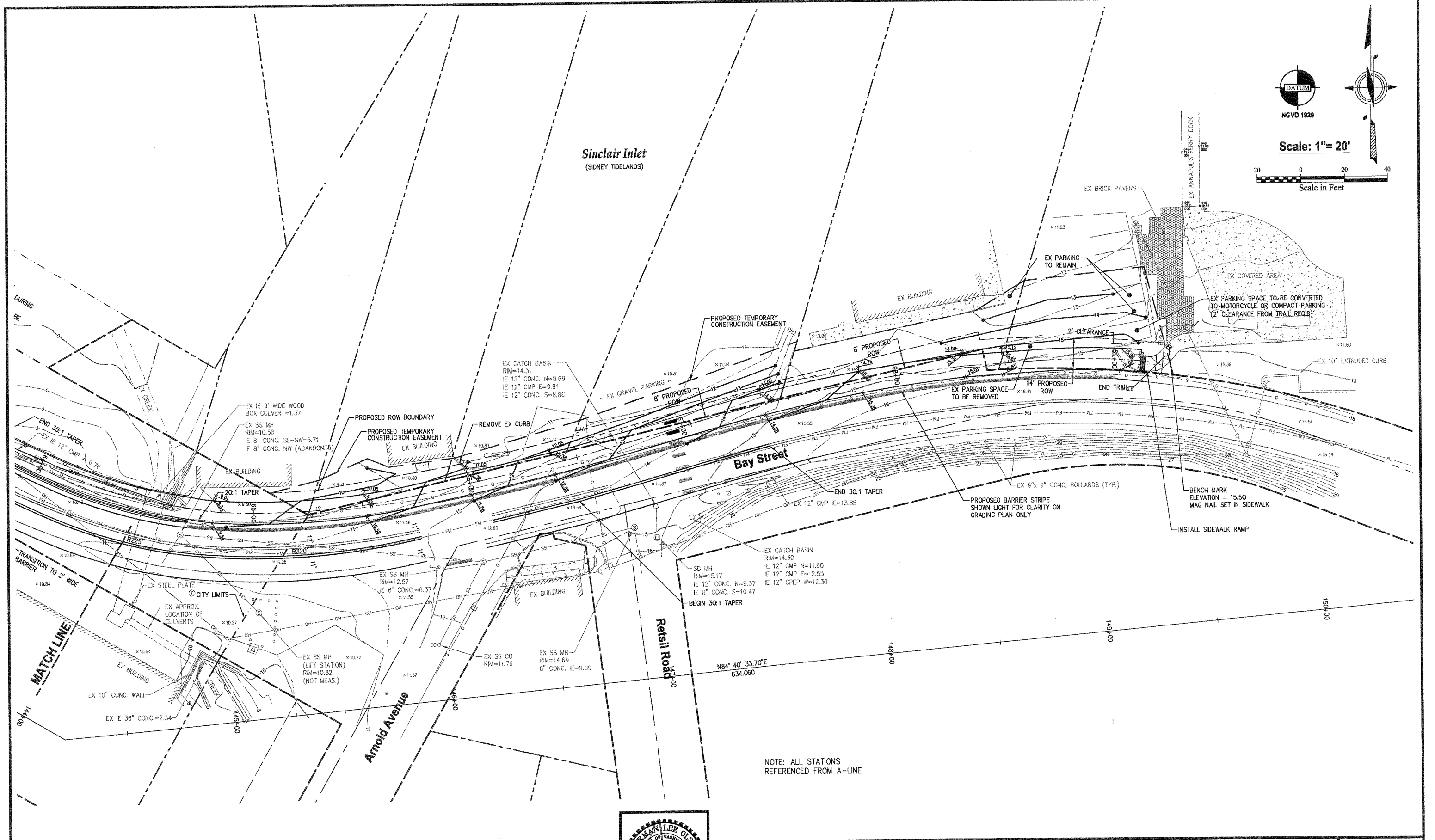
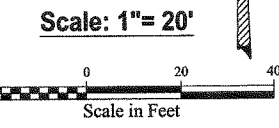
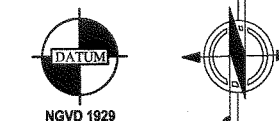


**STORM AND GRADING PLAN -BAY ST/ TRACY**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

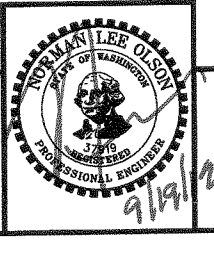
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**097337-407226**  
SHEET C6.9

C:\projects\97337 MOSQUITO FLEET TRAIL.dwg 9/12/2012 11:48:14 AM j\_broman, UNLOPPA.doc 105700



REVISIONS			
NO.	DATE	BY	DESCRIPTION

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



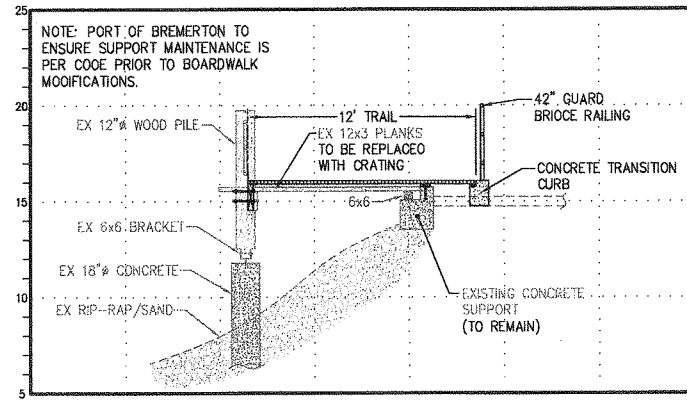
**STORM AND GRADING PLAN -BAY ST/ RETSIL**  
 City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

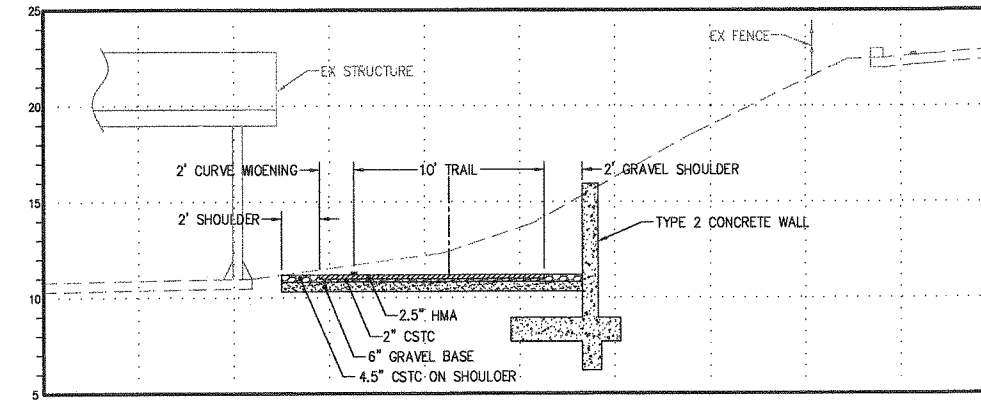
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 DRAWING NUMBER  
**097337-407227**  
 SHEET C6.10

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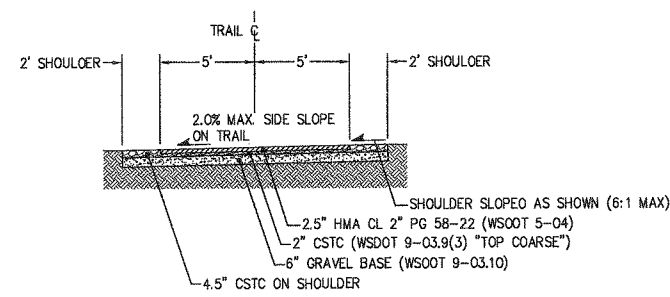




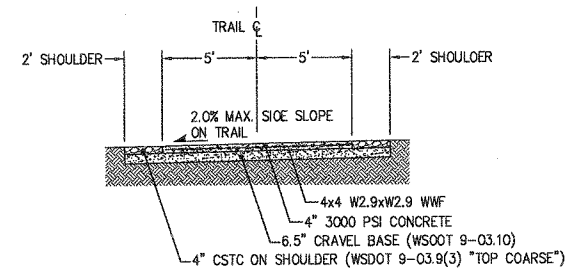
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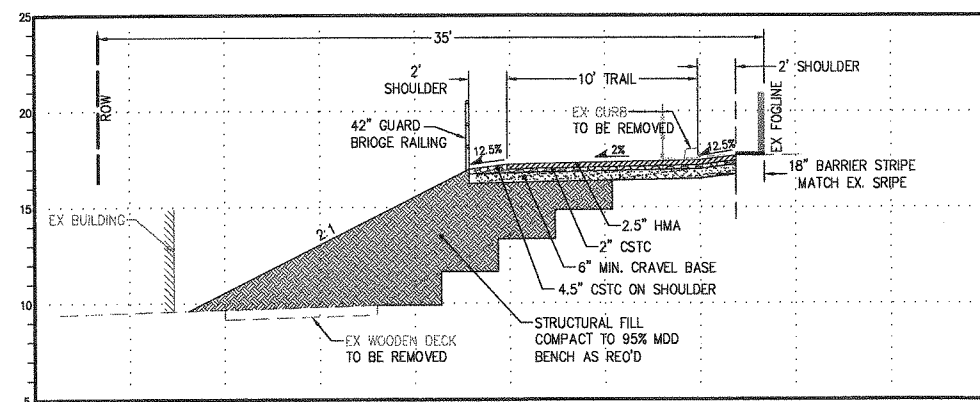
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TYPICAL ASPHALT TRAIL  
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OPTION 1  
TYPICAL CONCRETE TRAIL  
SCALE 1"=5'

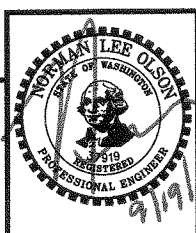


TRAIL SECTION STA. 17+40  
SCALE 1"=5'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOII	9/12
APPROVED	
ACCEPTED	

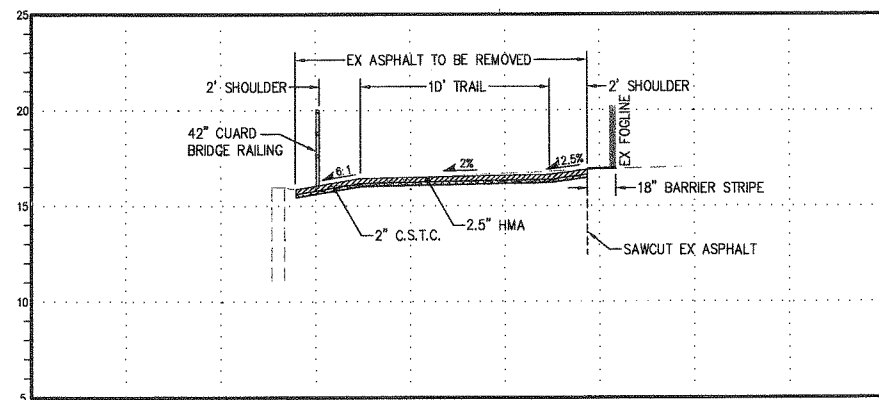
**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



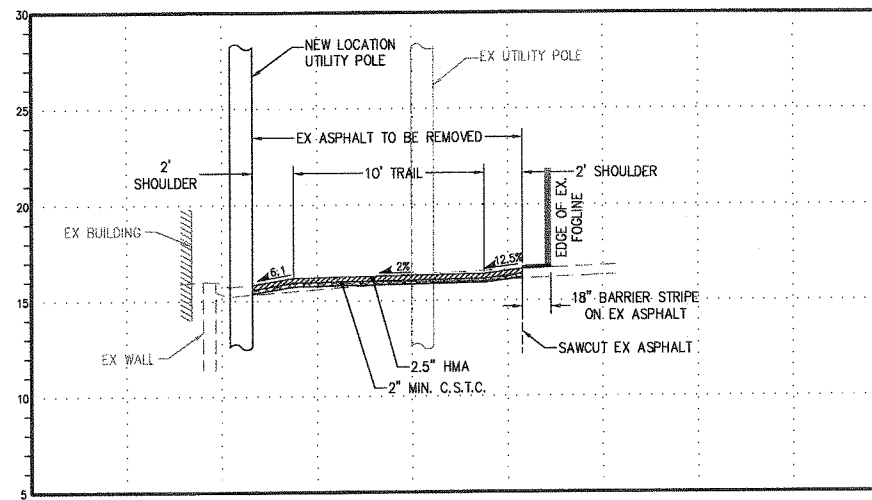
**TRAIL SECTIONS STA 11+25 TO STA 17+40**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situatue Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

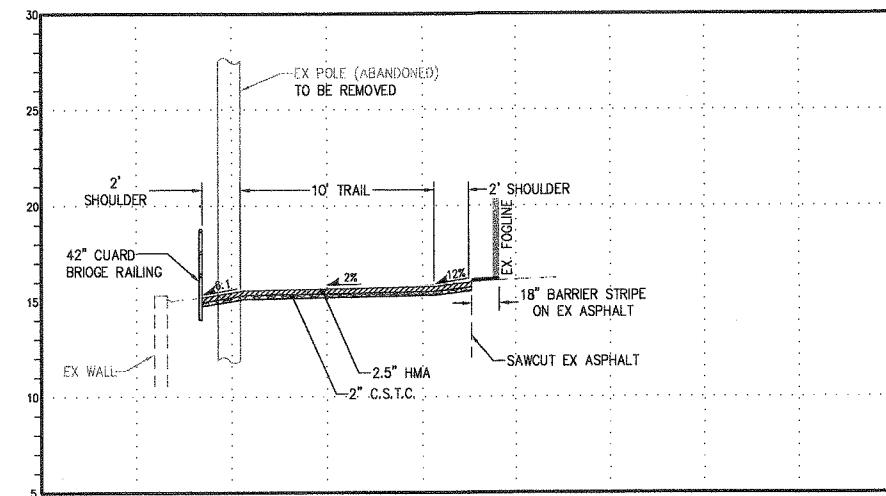
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DATE: Sep. 12, 2012
DRAWING NUMBER
<b>097337-407228</b>
SHEET C7.0



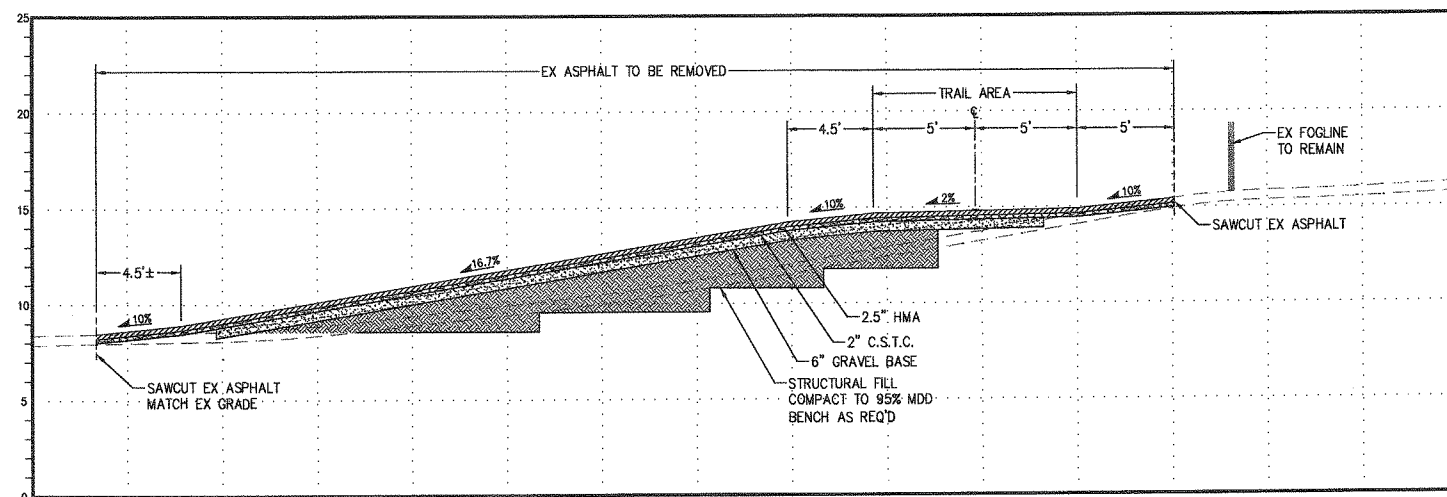
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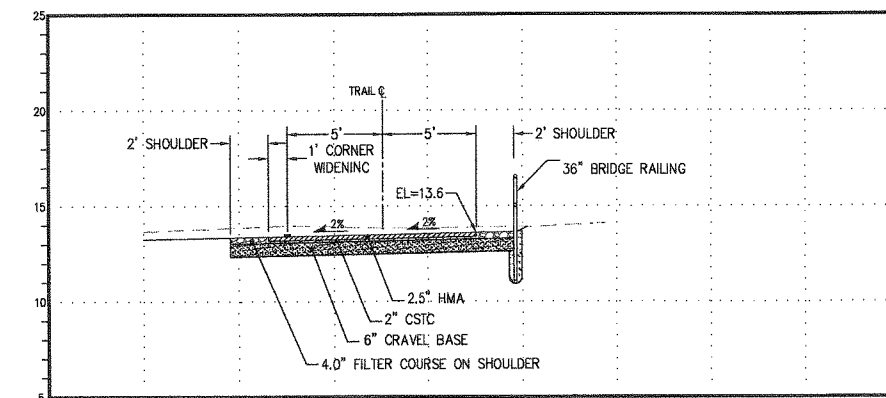
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SCALE 1"=5'



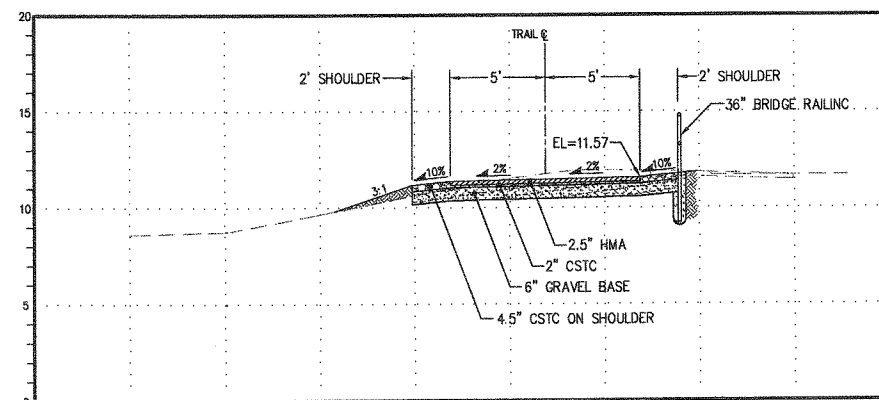
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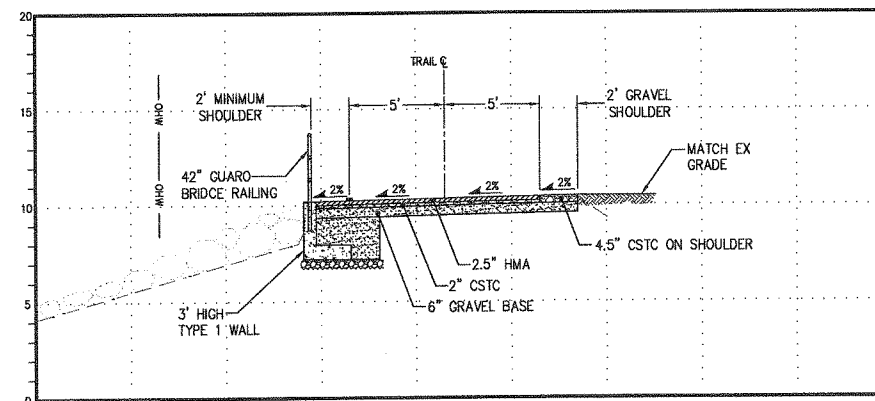
TRAIL SECTION STA. 18+72 (ROCKWELL APTS ACCESS)  
SCALE 1"=5'



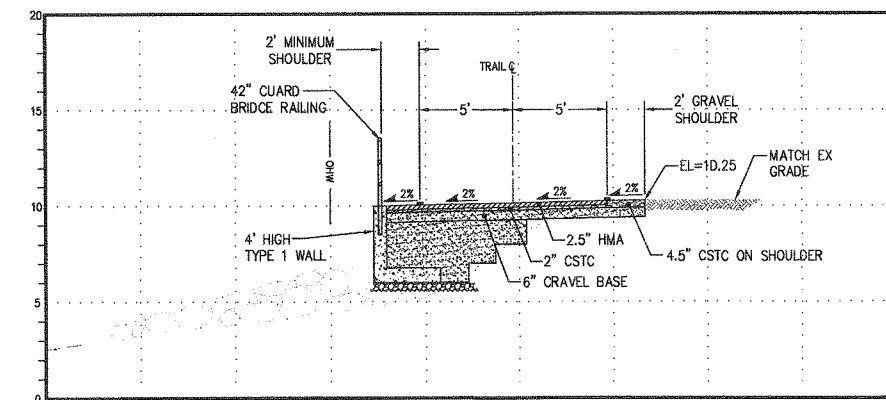
TRAIL SECTION STA. 19+10  
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TRAIL SECTION STA. 20+00  
SCALE 1"=5'



TRAIL SECTION STA. 21+50  
SCALE 1"=5'

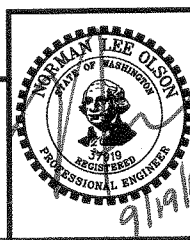


TRAIL SECTION STA. 22+75  
SCALE 1"=5'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLO	9/12
APPROVED	
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**N.L. Olson & Associates, Inc.**  
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2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



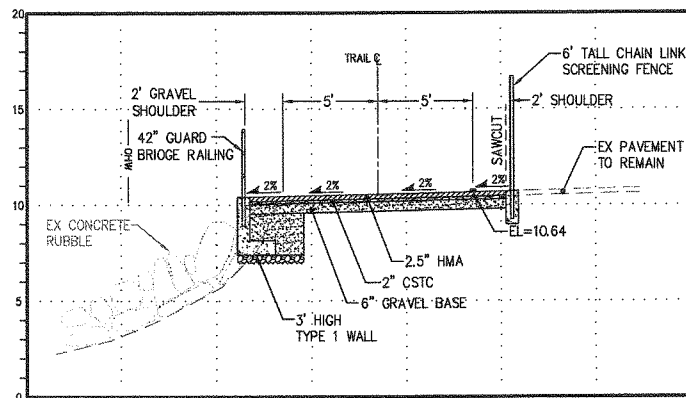
**TRAIL SECTIONS STA 17+90 TO STA 22+75**  
**City of Port Orchard Pedestrian Enhancement Project**

**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

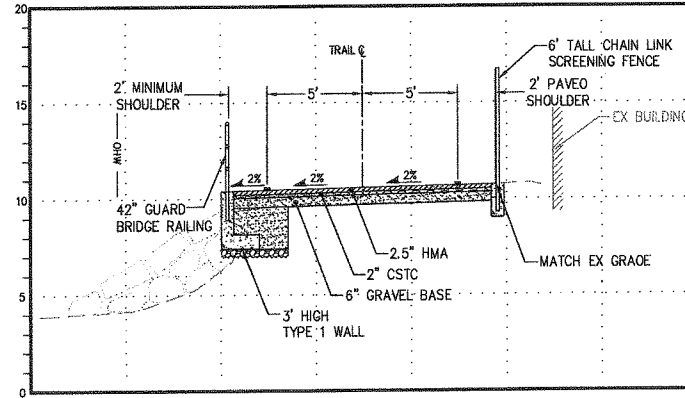
FOR:

**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

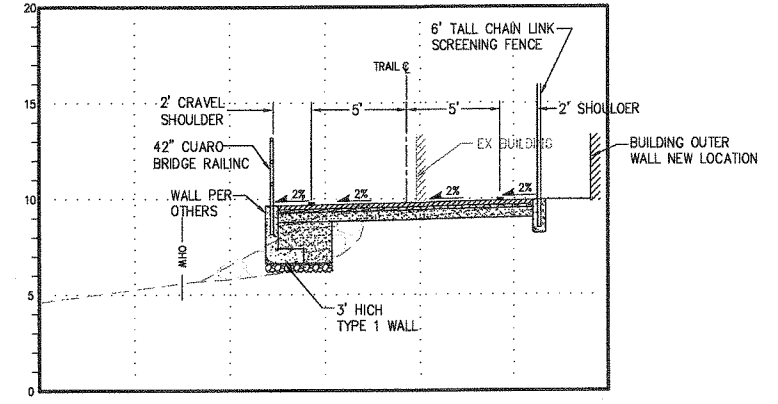
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DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407229**  
SHEET C7.1



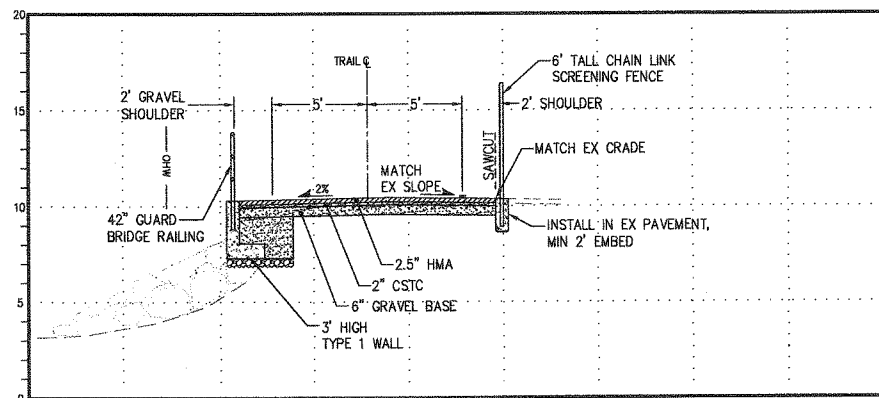
TRAIL SECTION STA. 24+35  
SCALE 1"=5'



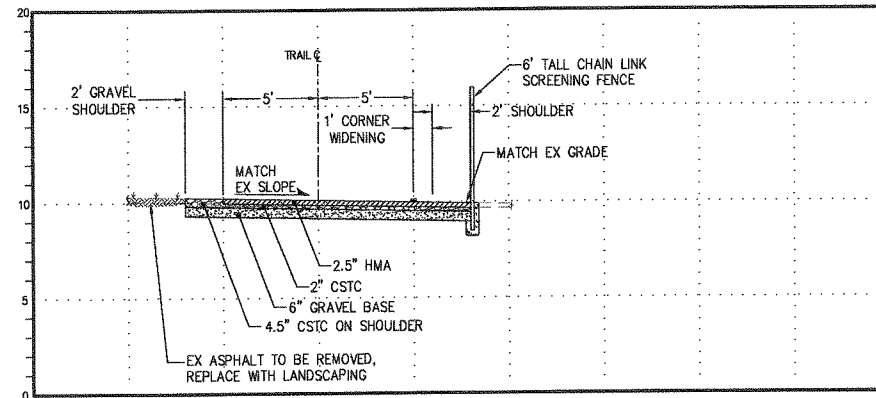
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SCALE 1"=5'



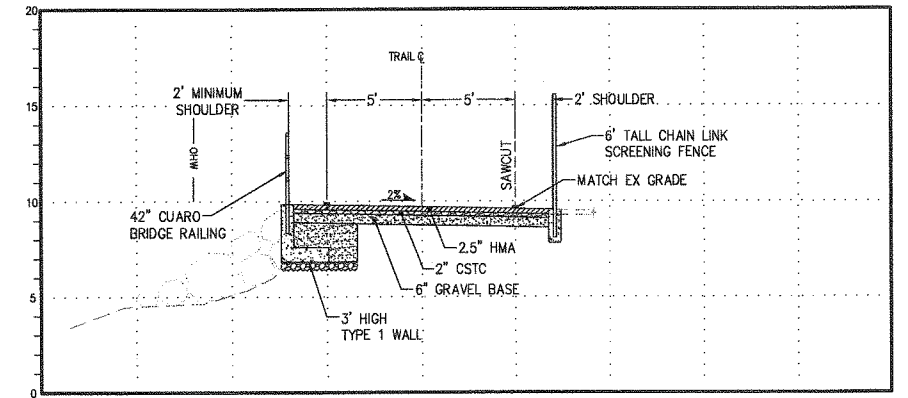
TRAIL SECTION STA. 25+85  
SCALE 1"=5'



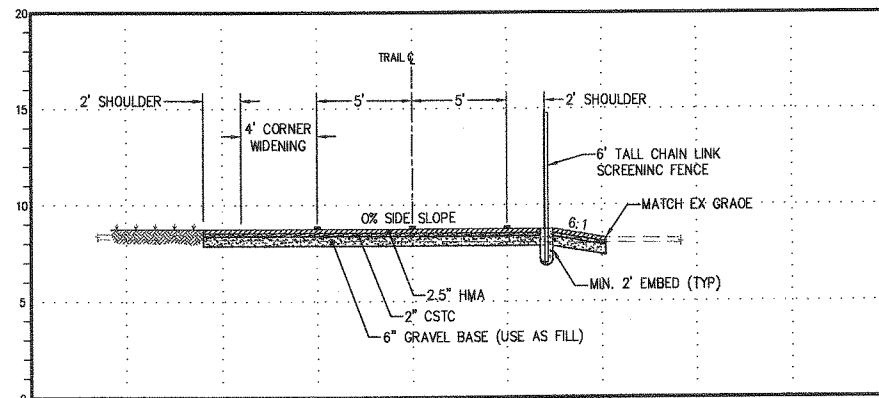
TRAIL SECTION STA. 26+78  
SCALE 1"=5'



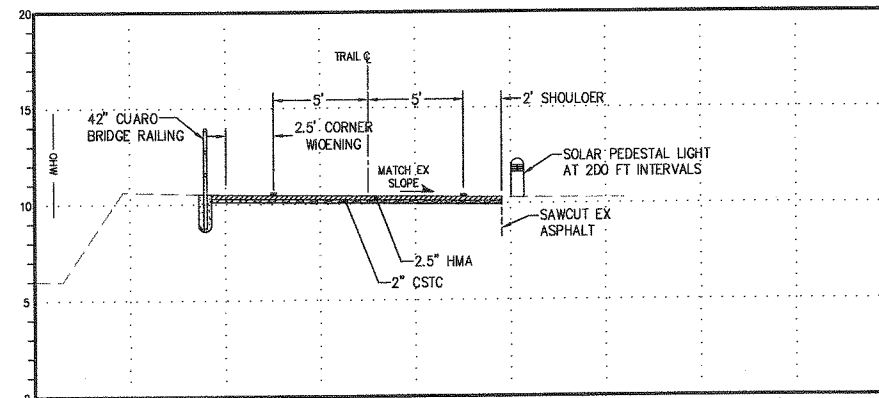
TRAIL SECTION STA. 27+85  
SCALE 1"=5'



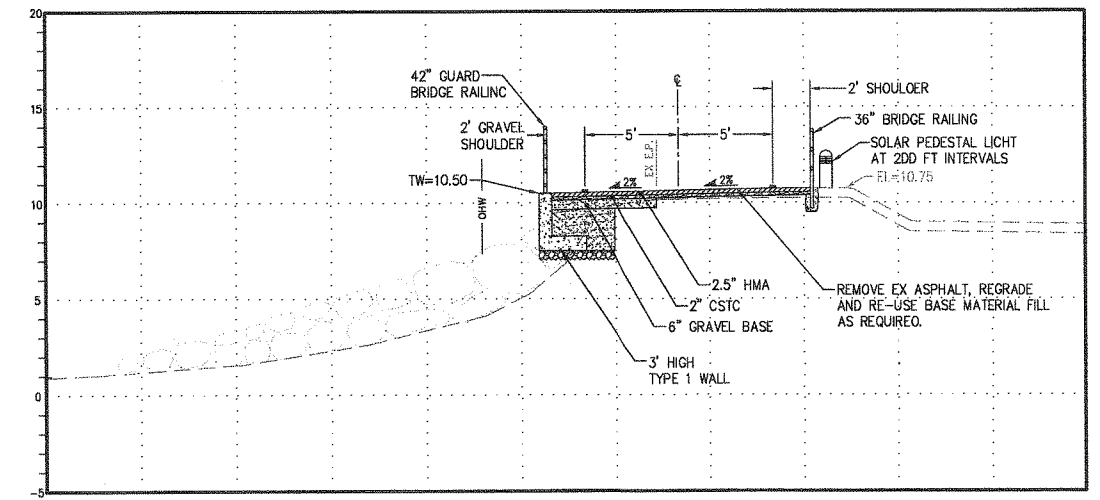
TRAIL SECTION STA. 28+65  
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TRAIL SECTION STA. 29+45  
SCALE 1"=5'



TRAIL SECTION STA. 31+03  
SCALE 1"=5'

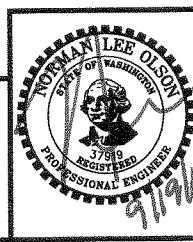


TRAIL SECTION STA. 32+26  
SCALE 1"=5'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOH	9/12
APPROVED	
ACCEPTED	

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



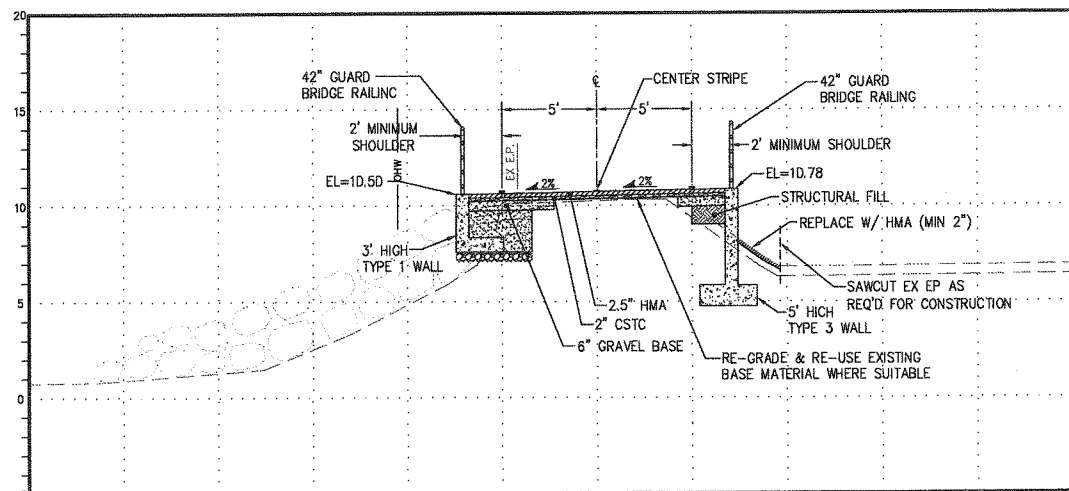
**TRAIL SECTIONS STA 22+75 TO STA 32+40**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail

Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

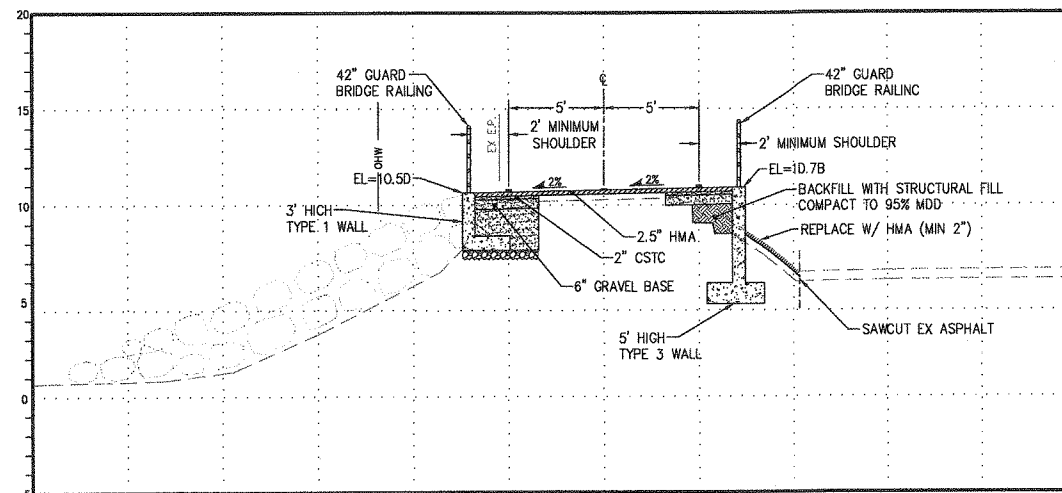
FOR:

**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

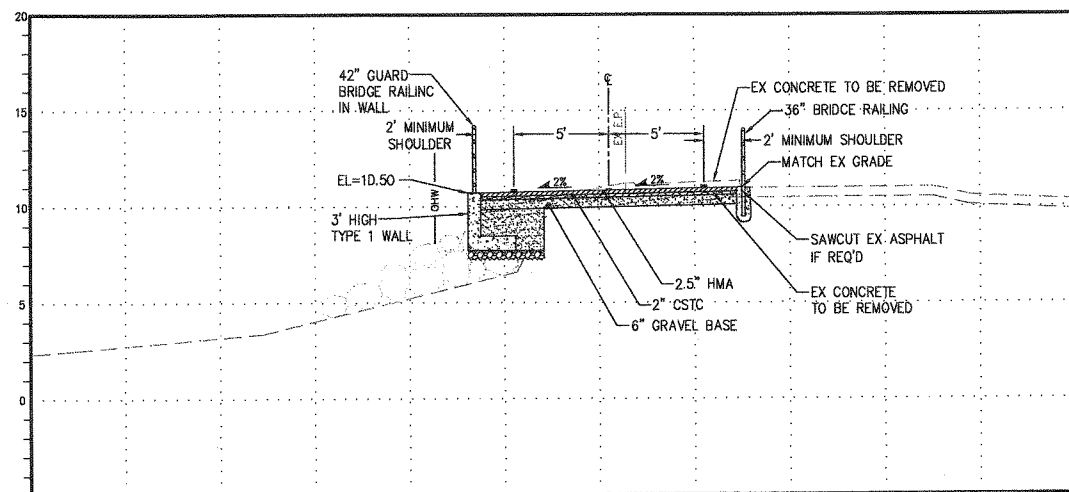
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DRAWING NUMBER  
**097337-407230**  
SHEET C7.2



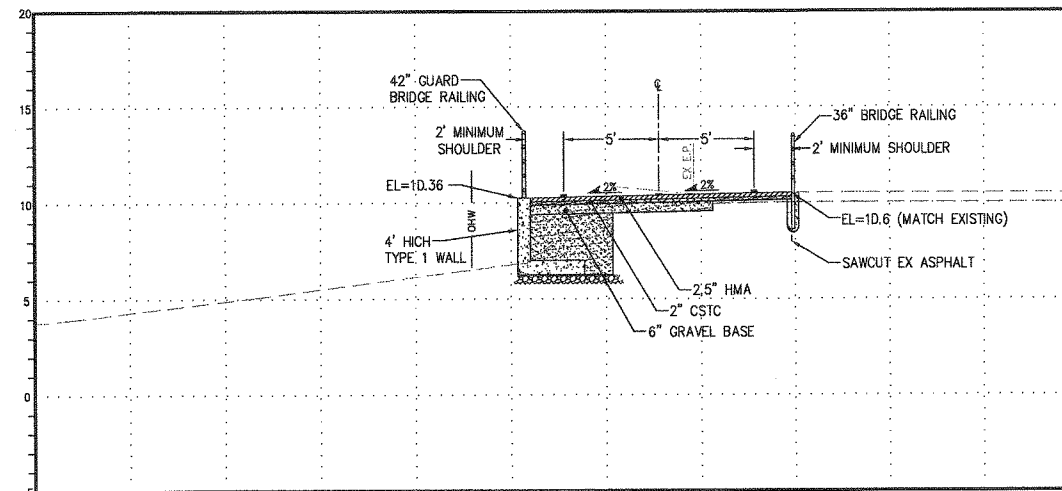
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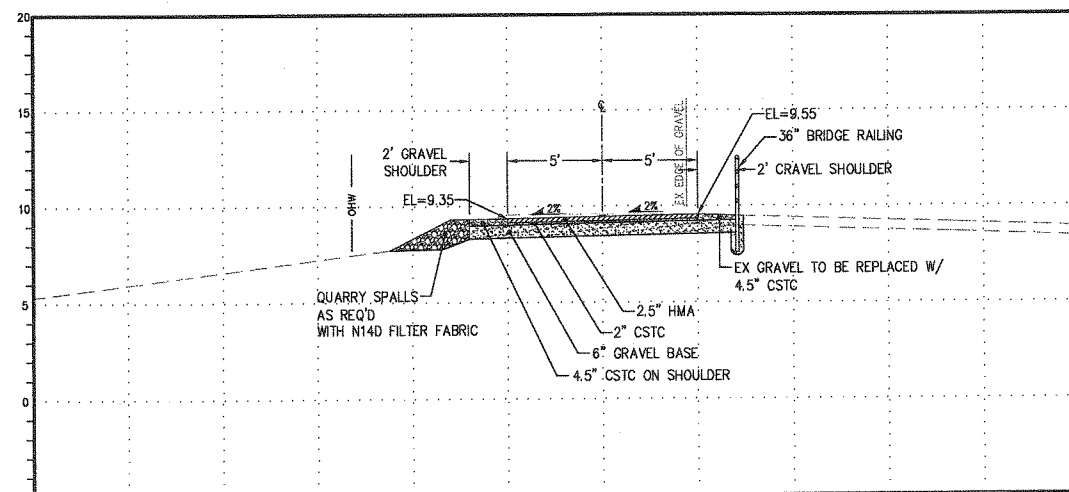
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SCALE 1"=5'



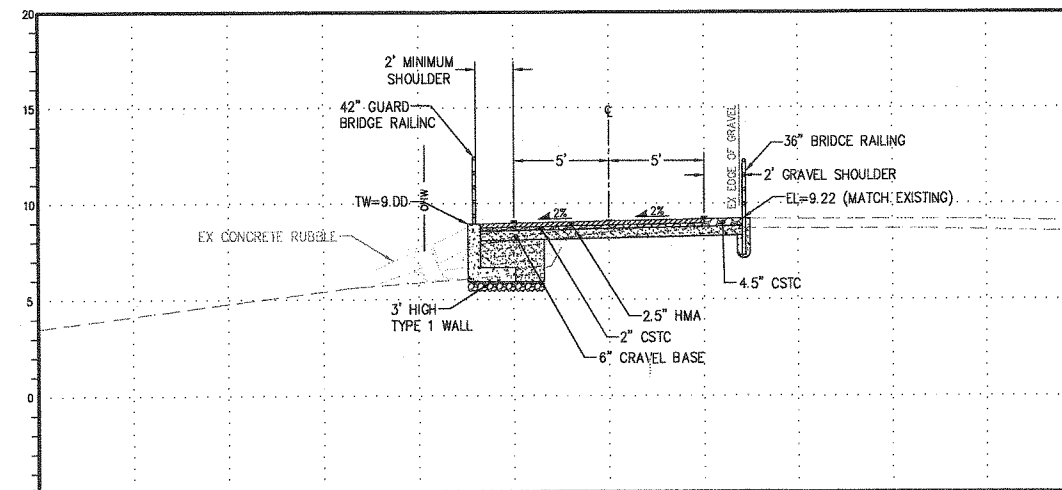
TRAIL SECTION STA. 34+53  
SCALE 1"=5'



TRAIL SECTION STA. 35+21  
SCALE 1"=5'



TRAIL SECTION STA. 36+51  
SCALE 1"=5'

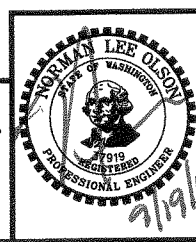


TRAIL SECTION STA. 37+16  
SCALE 1"=5'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOH	9/12
APPROVED	
ACCEPTED	

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

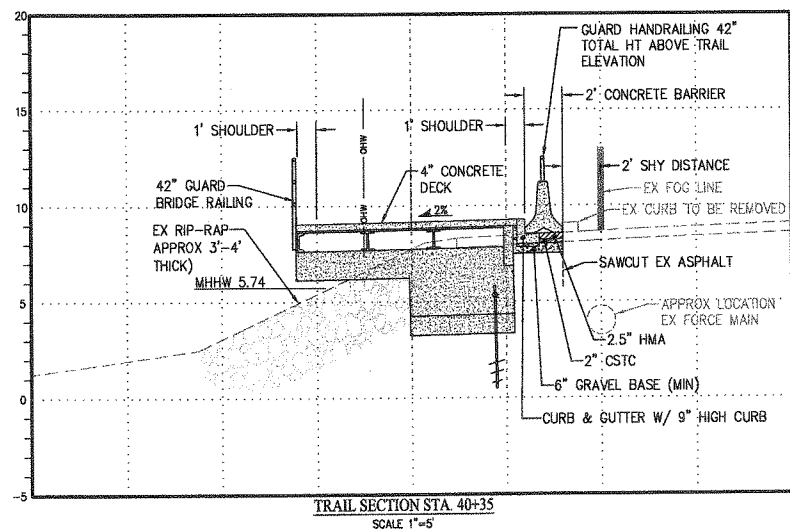


**TRAIL SECTIONS STA 32+90 TO STA 37+30**  
**City of Port Orchard Pedestrian Enhancement Project**  
**Mosquito Fleet Trail**  
Situata Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

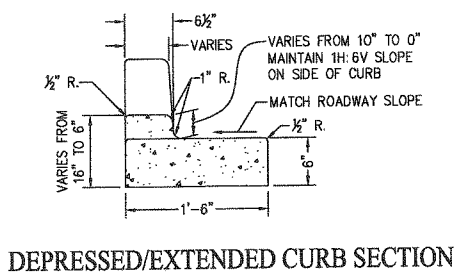
FOR: **City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1"=5'  
DATE: Sep. 12, 2012  
DRAWING NUMBER: **097337-407231**  
SHEET: C7.3

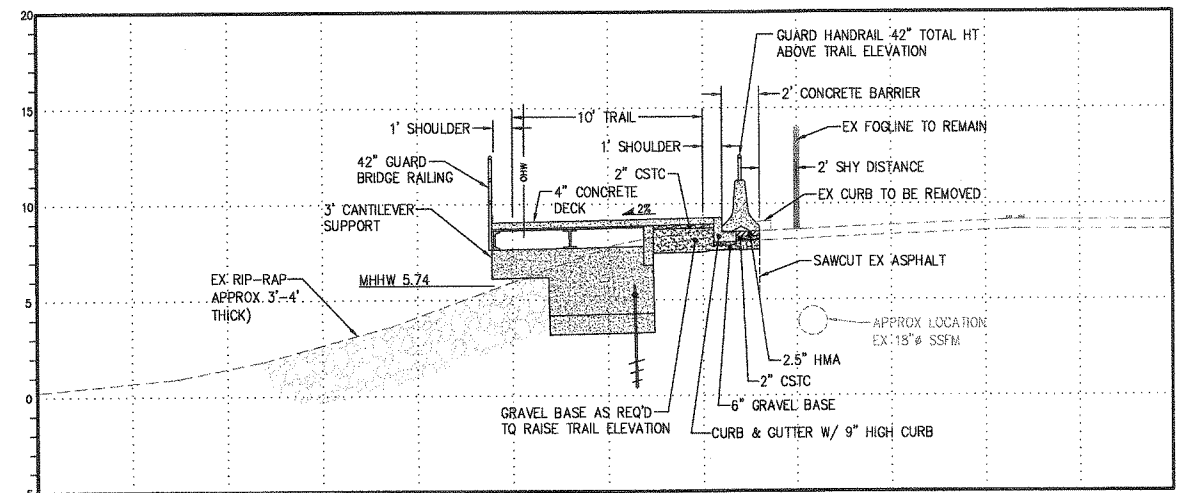




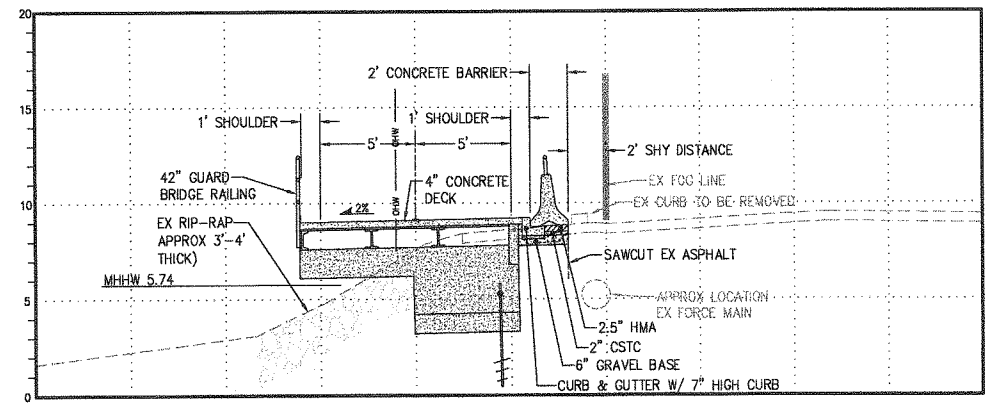
TRAIL SECTION STA. 40+35  
SCALE 1"=5'



DEPRESSED/EXTENDED CURB SECTION



TRAIL SECTION STA. 39+09  
SCALE 1"=5'



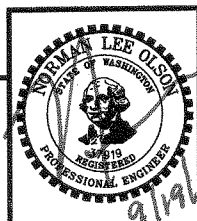
TRAIL SECTION STA. 41+34  
SCALE 1"=5'

NOTE: TOP OF FOUNDATION ELEVATION = 1'-4" LOWER THAN EXISTING GRADE/TOP OF TRAIL SLOPE FOUNDATION 2% TO MATCH TRAIL SLOPE.

REVISIONS			
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APPROVED		
ACCEPTED		

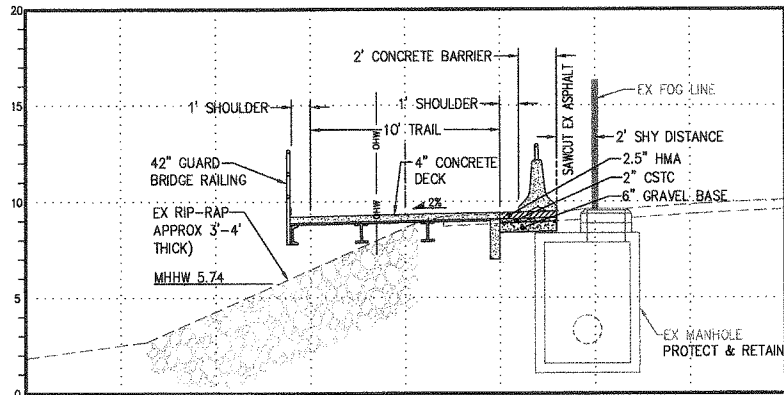
**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



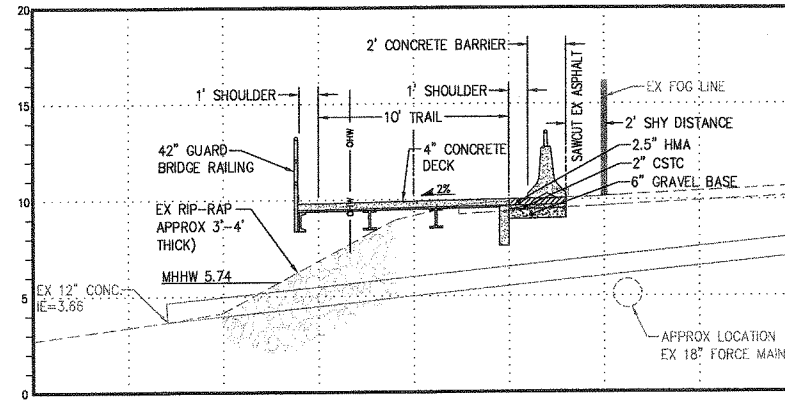
**TRAIL SECTIONS STA 36+51 TO STA 41+34**  
**City of Port Orchard Pedestrian Enhancement Project**  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

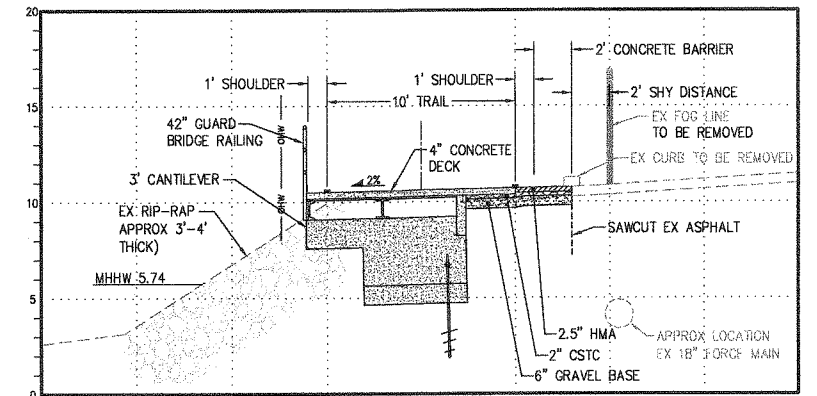
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DATE: Sep 12, 2012  
DRAWING NUMBER: **097337-407232**  
SHEET: C7.4



TRAIL SECTION STA. 42+46  
SCALE 1"=5'

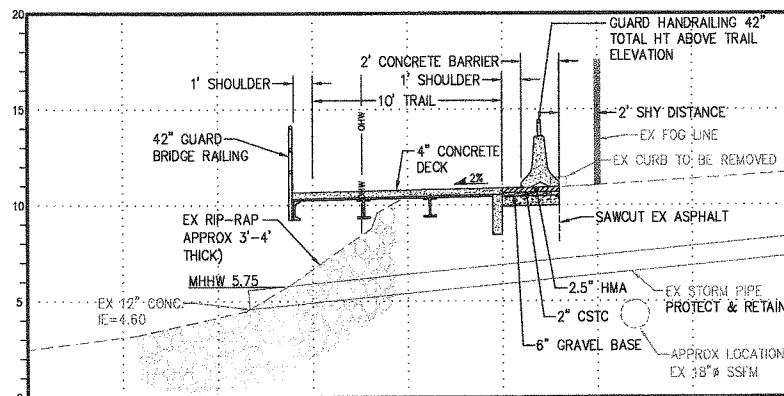


TRAIL SECTION STA. 45+36  
SCALE 1"=5'

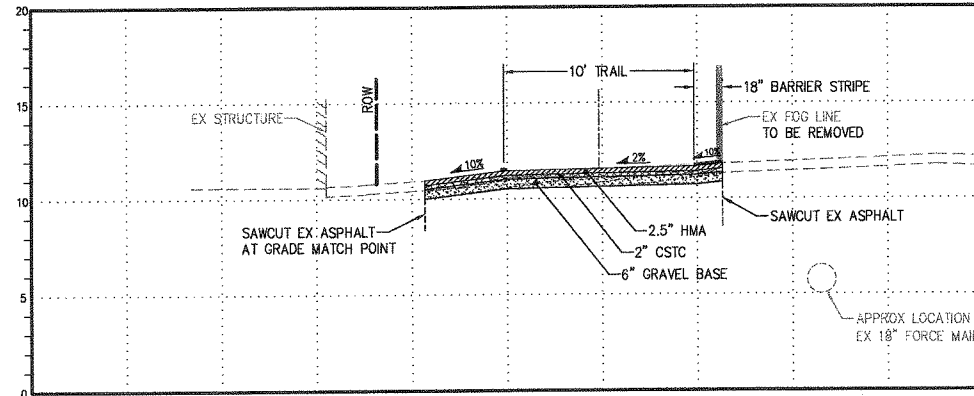


TRAIL SECTION STA. 46+91  
SCALE 1"=5'

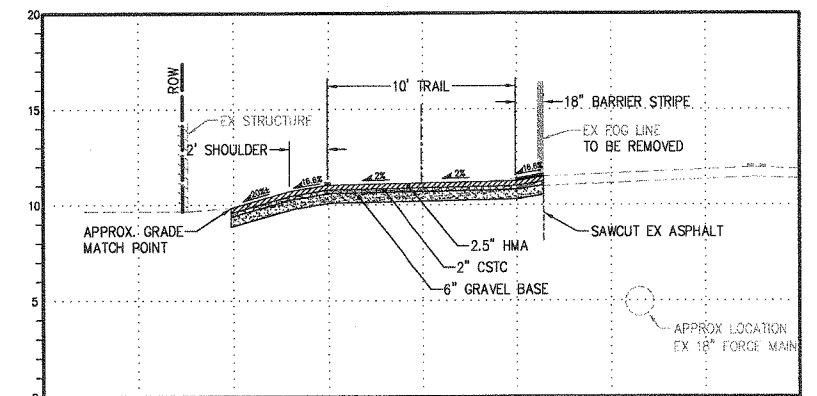
NOTE: TOP OF FOUNDATION ELEVATION=1'-4" LOWER THAN EXISTING GRADE/ TOP OF TRAIL. SLOPE FOUNDATION 2% TO MATCH TRAIL SLOPE.



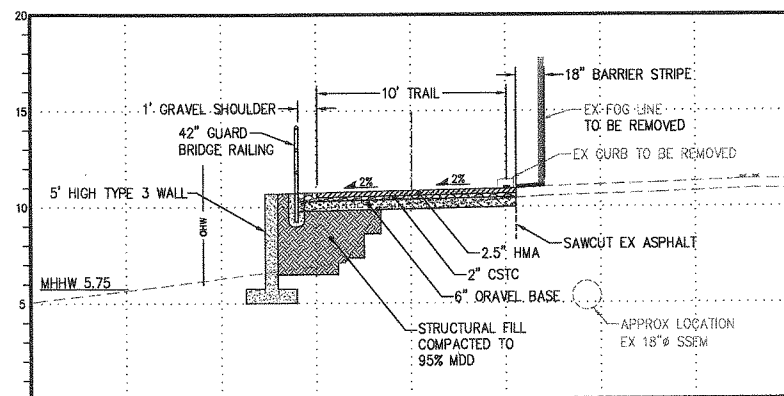
TRAIL SECTION STA. 47+28  
SCALE 1"=5'



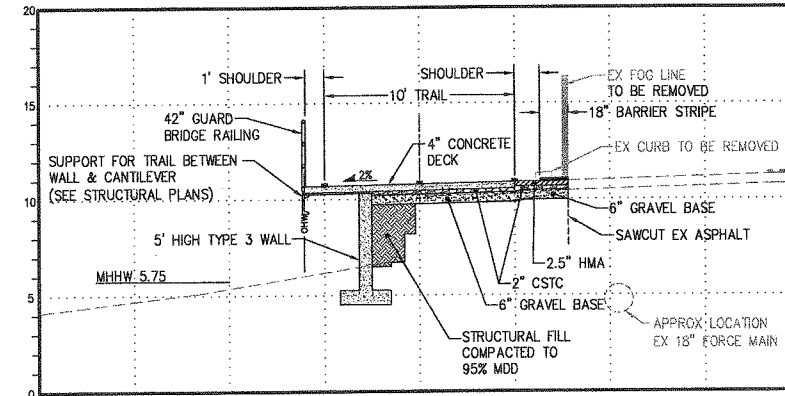
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SCALE 1"=5'



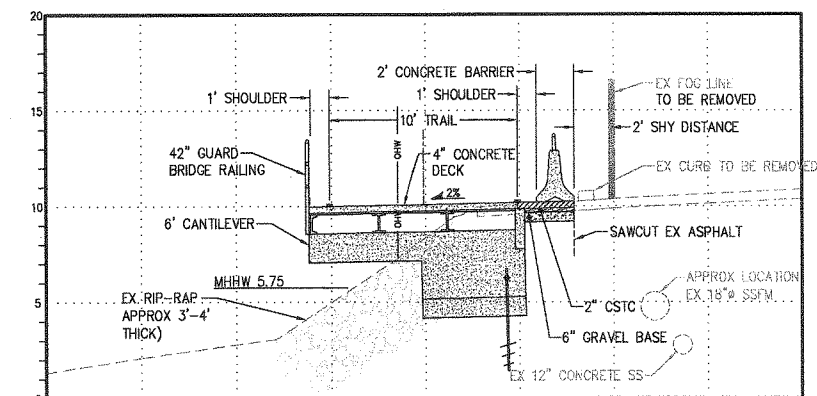
TRAIL SECTION STA. 49+40  
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TRAIL SECTION STA. 49+91  
SCALE 1"=5'



TRAIL SECTION STA. 50+09  
SCALE 1"=5'

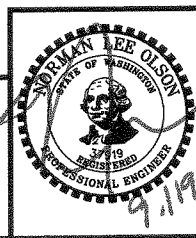


TRAIL SECTION STA. 51+00  
SCALE 1"=5'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOH	9/12
APPROVED	
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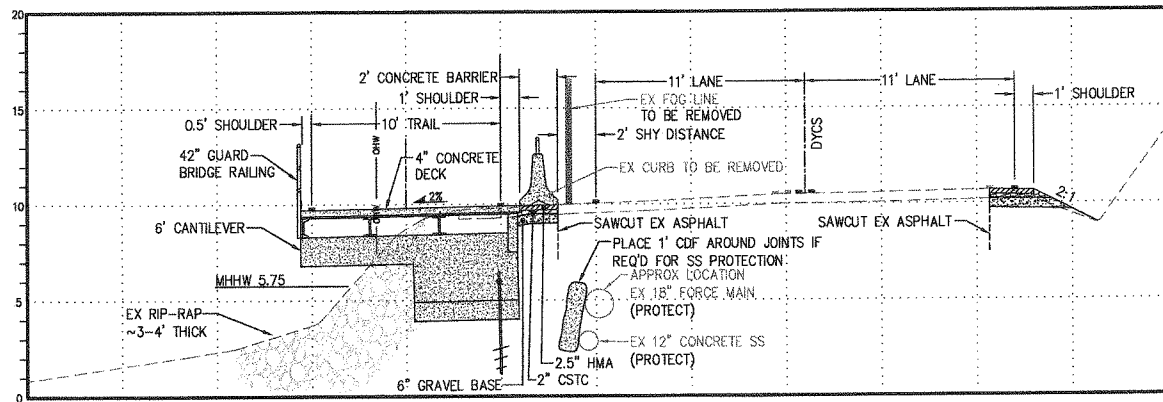


**TRAIL SECTIONS STA 42+43 TO STA 51+00**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail

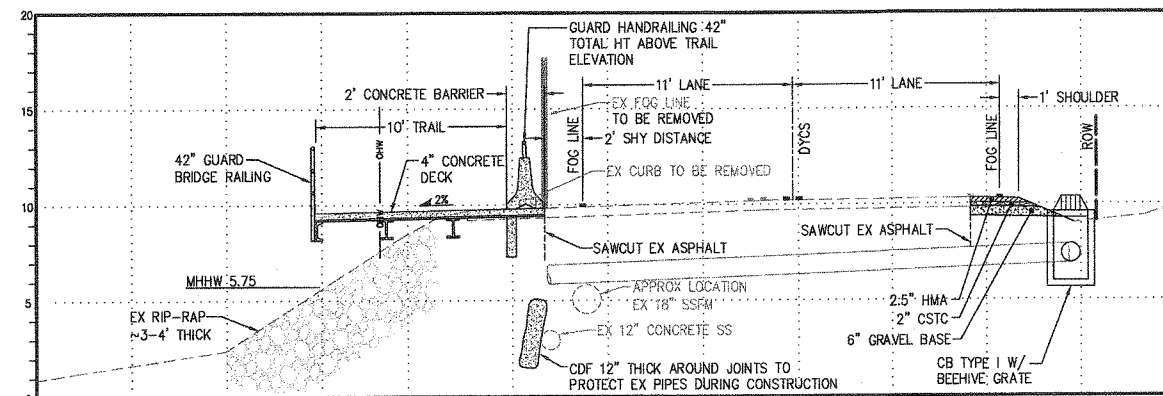
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

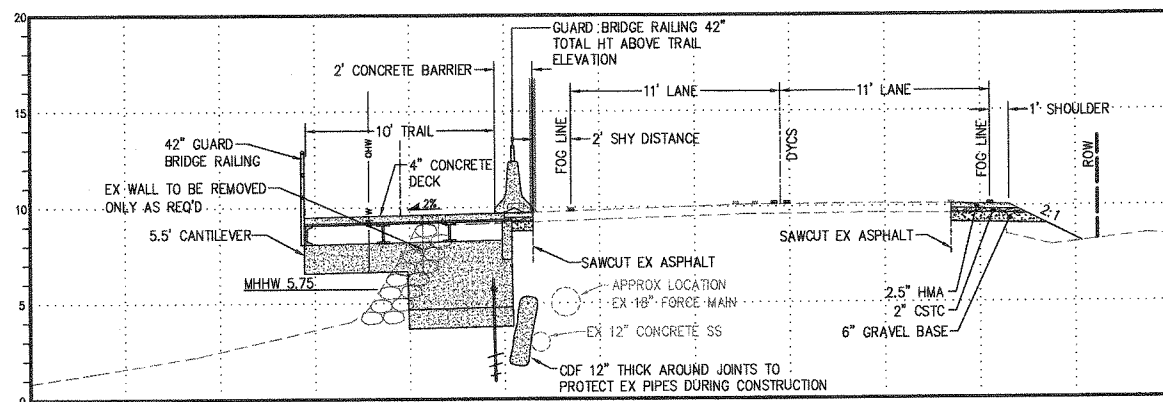
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DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407233**  
SHEET C7.5



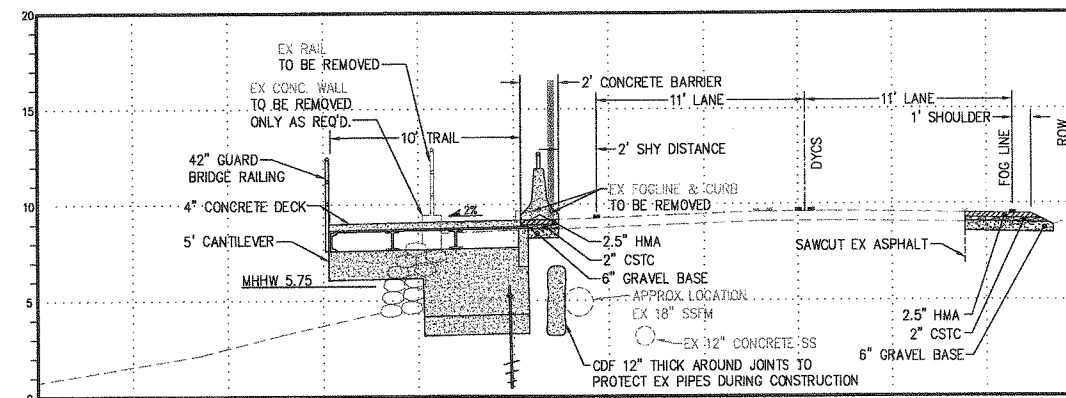
TRAIL SECTION STA. 51+56  
SCALE 1"=5'



TRAIL SECTION STA. 51+84  
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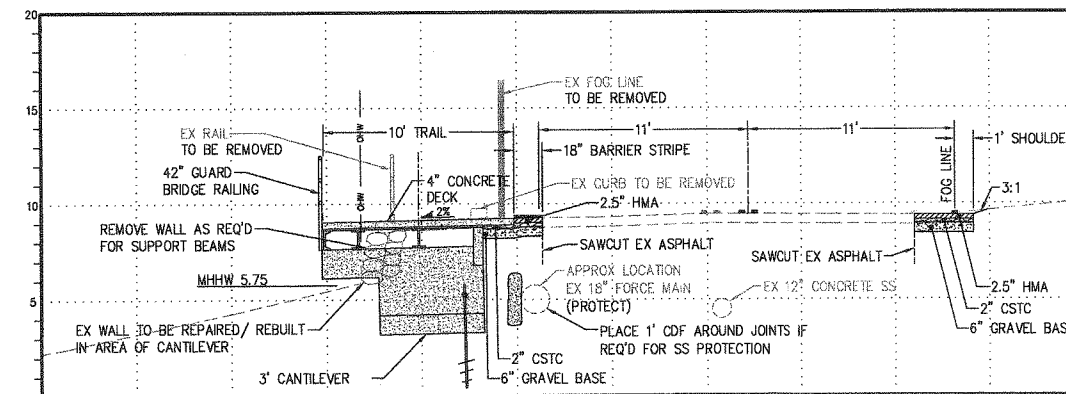


TRAIL SECTION STA. 51+98  
SCALE 1"=5'



TRAIL SECTION STA. 52+82  
SCALE 1"=5'

NOTE: TOP OF FOUNDATION ELEVATION=1'-4"  
LOWER THAN EXISTING GRADE / TOP OF TRAIL.  
SLOPE FOUNDATION 2% TO MATCH TRAIL SLOPE.

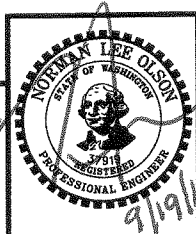


TRAIL SECTION STA. 53+85  
SCALE 1"=5'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOH	9/12
APPROVED	
ACCEPTED	

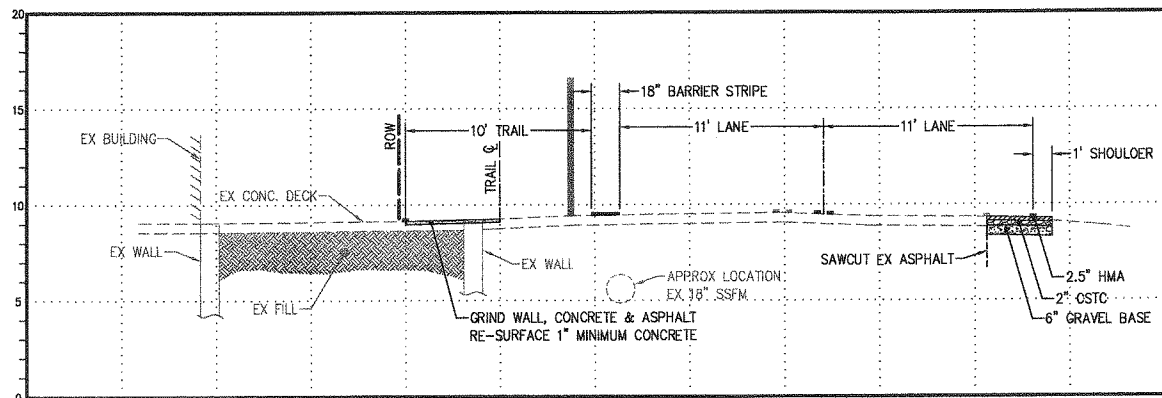
**N.L. Olson & Associates, Inc.**  
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(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



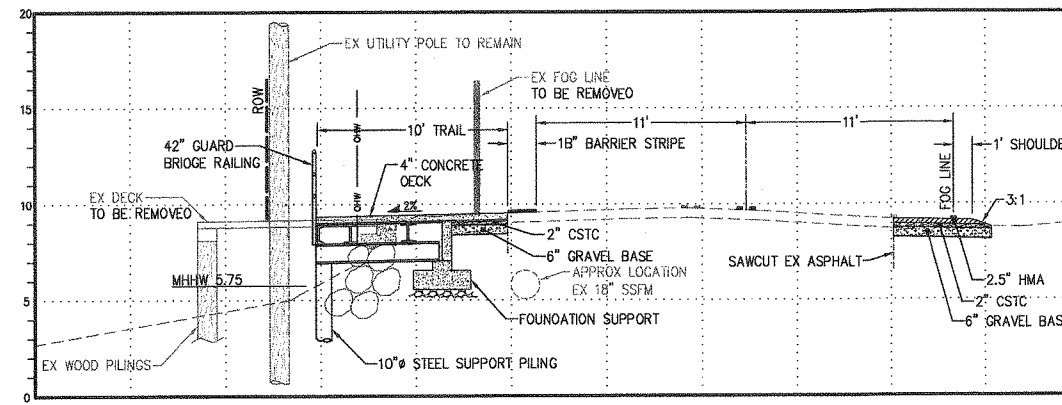
**TRAIL SECTIONS STA 51+56 TO STA 53+85**  
**City of Port Orchard Pedestrian Enhancement Project**  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

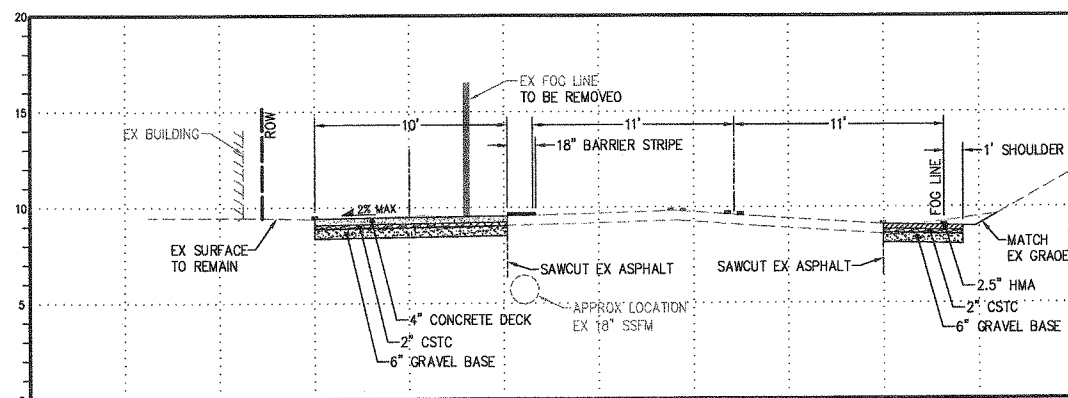
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DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407234**  
SHEET C7.6



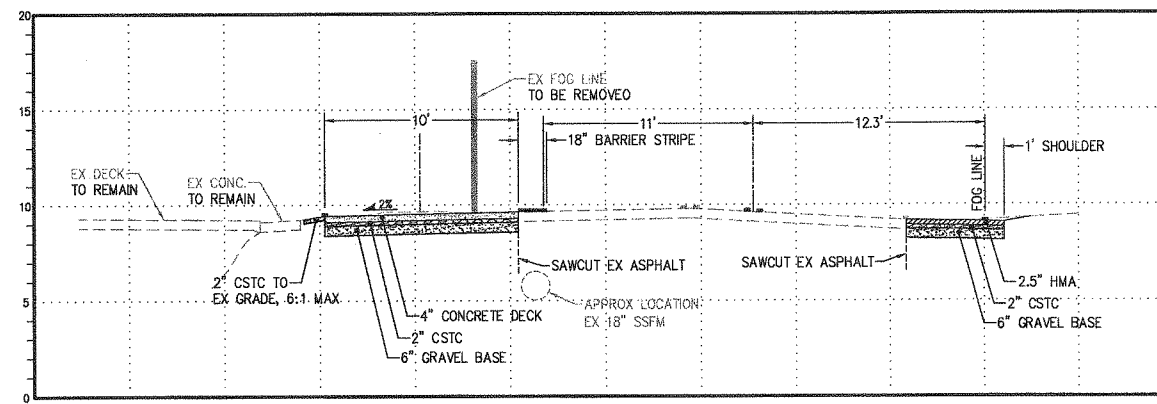
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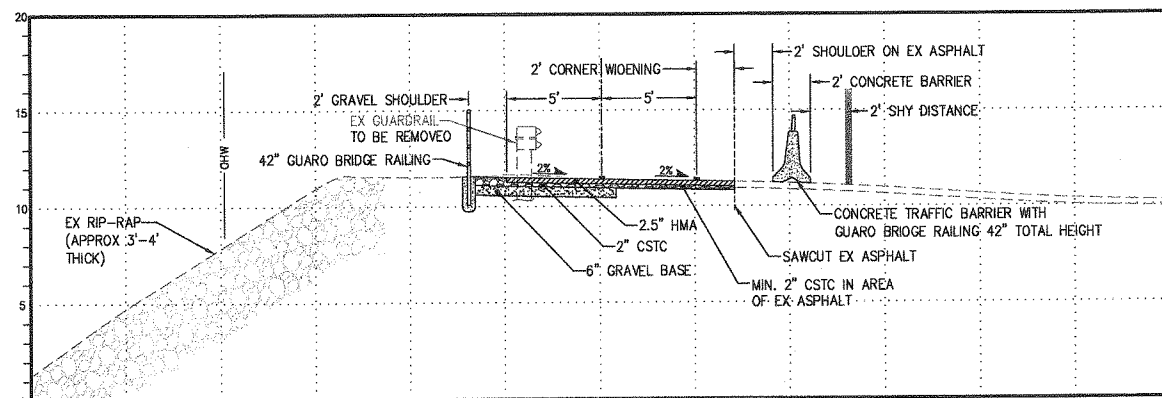
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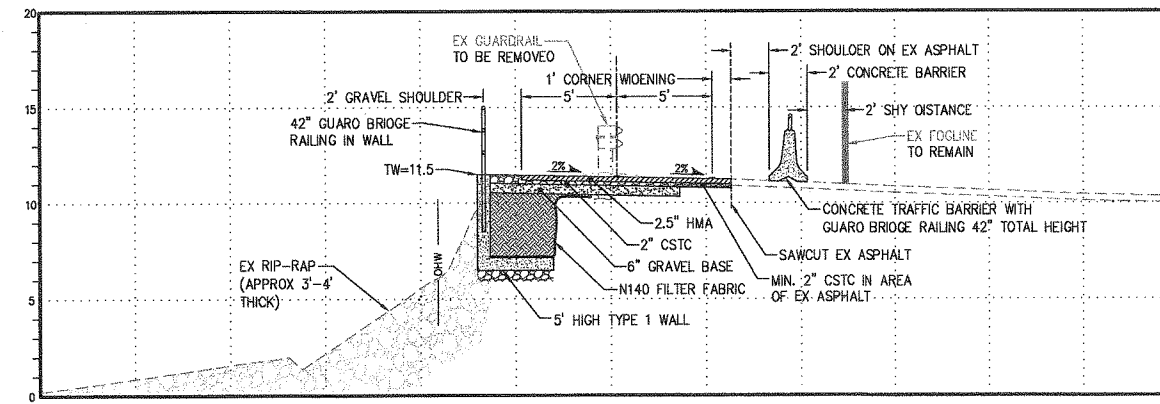
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TRAIL SECTION STA. 55+74  
SCALE 1"=5'



TRAIL SECTION STA. 56+72  
SCALE 1"=5'

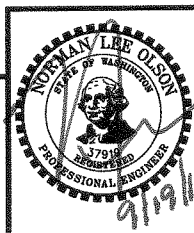


TRAIL SECTION STA. 57+19  
SCALE 1"=5'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOI	9/12
APPROVED	
ACCEPTED	

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 893-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**TRAIL SECTIONS STA 54+40 TO STA 57+45**  
**City of Port Orchard Pedestrian Enhancement Project**  
**Mosquito Fleet Trail**

Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

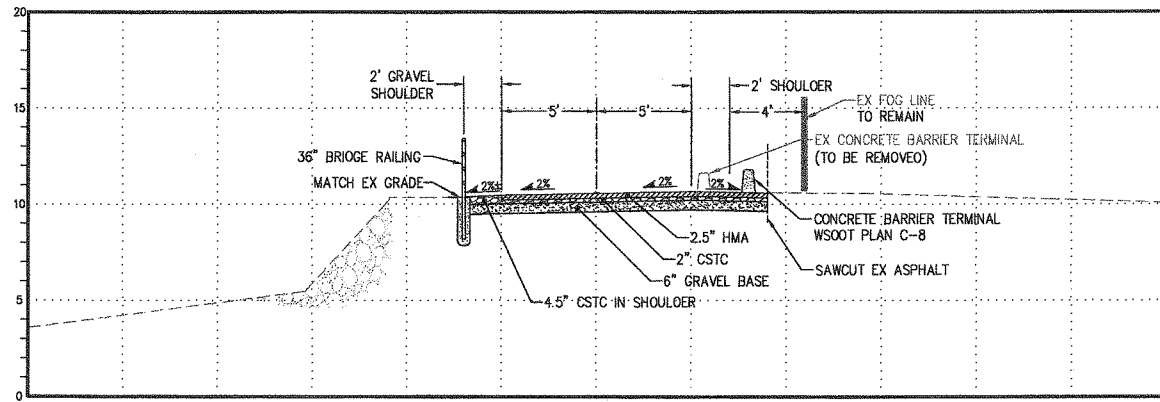
FOR:

**City of Port Orchard**

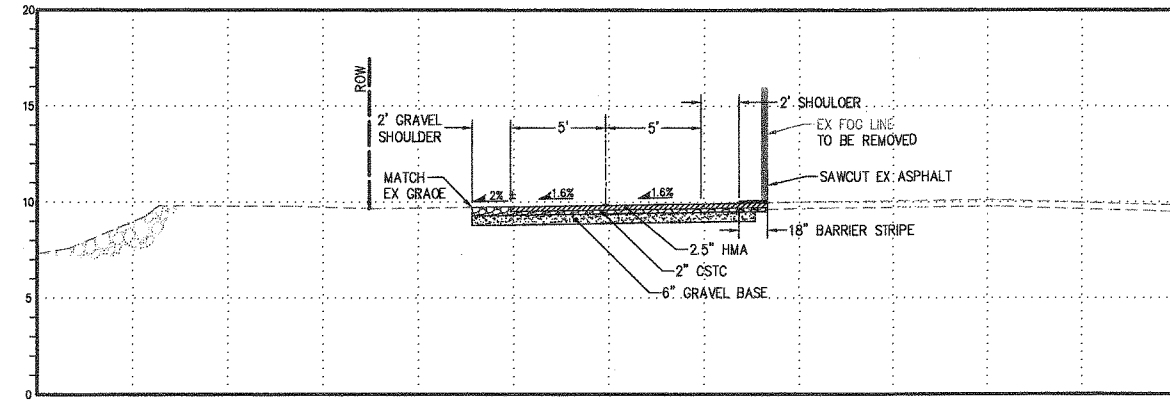
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1"= 5'  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407235**  
SHEET C7.7

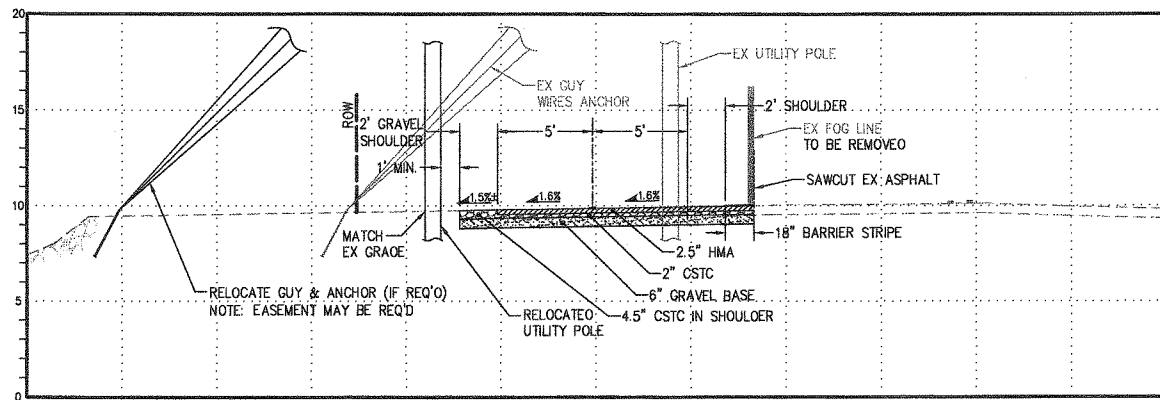




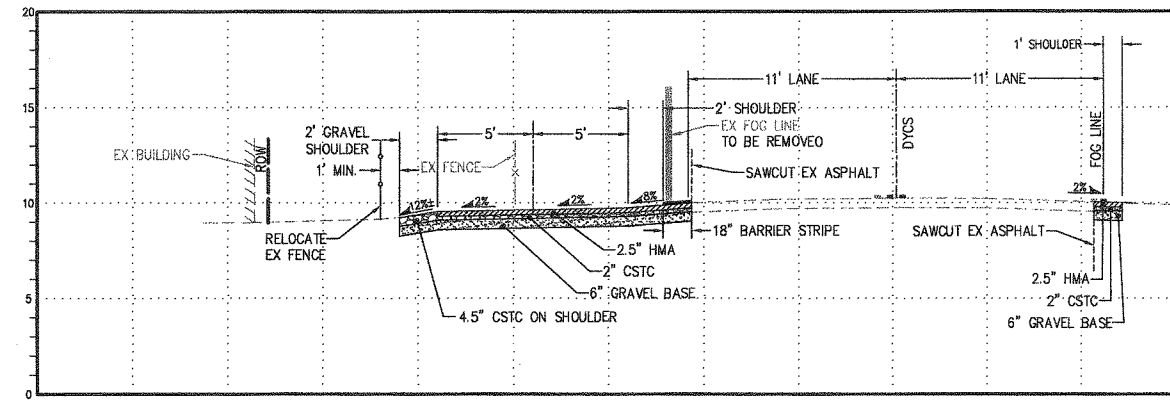
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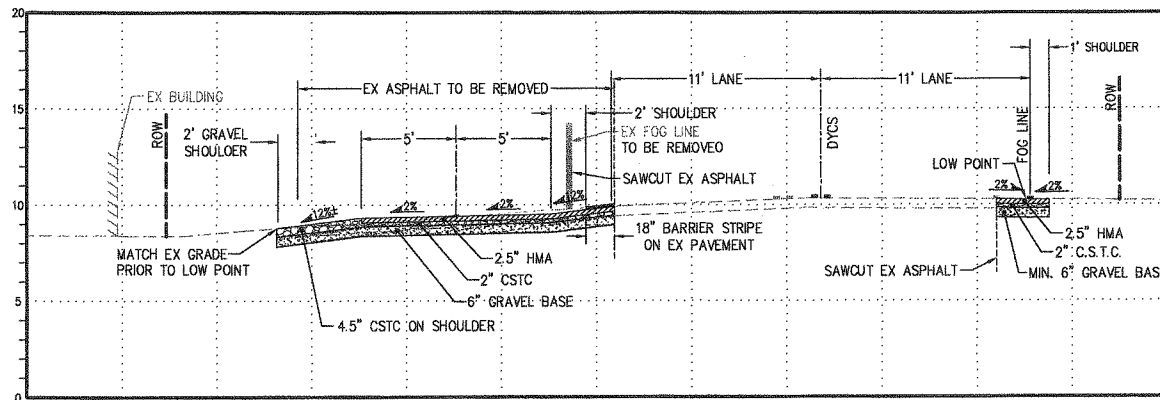
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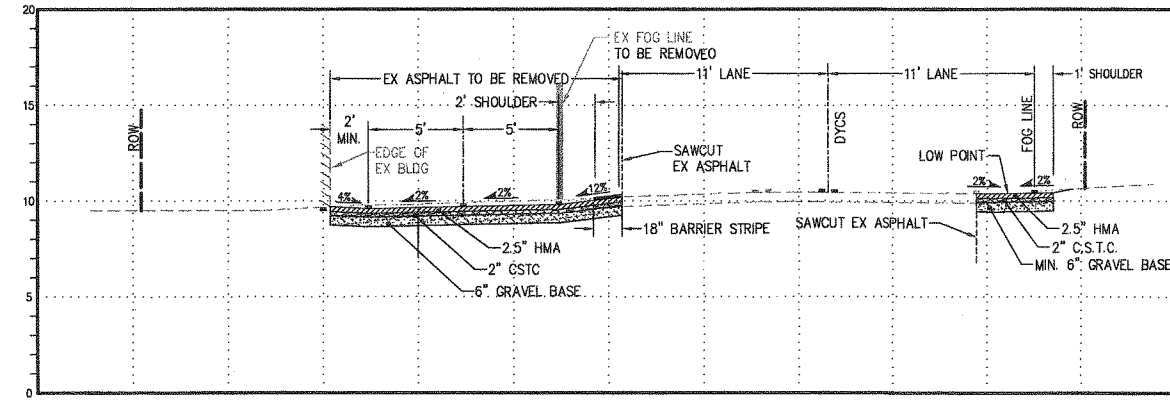
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TRAIL SECTION STA. 58+50  
SCALE 1"=5'



TRAIL SECTION STA. 58+87  
SCALE 1"=5'

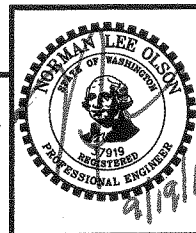


TRAIL SECTION STA. 59+54  
SCALE 1"=5'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

	BY	DATE
DESIGNED	RPJ	9/12
DRAWN	JAT	9/12
CHECKED	NLOI	9/12
APPROVED		
ACCEPTED		

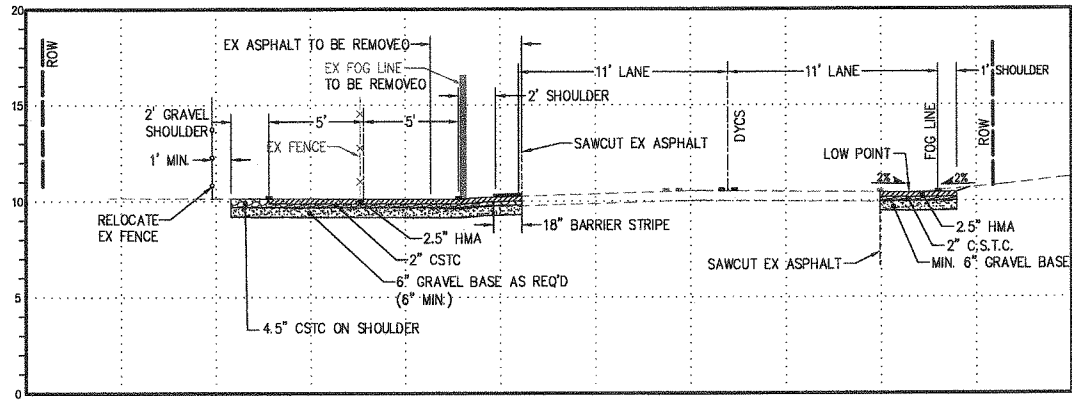
**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



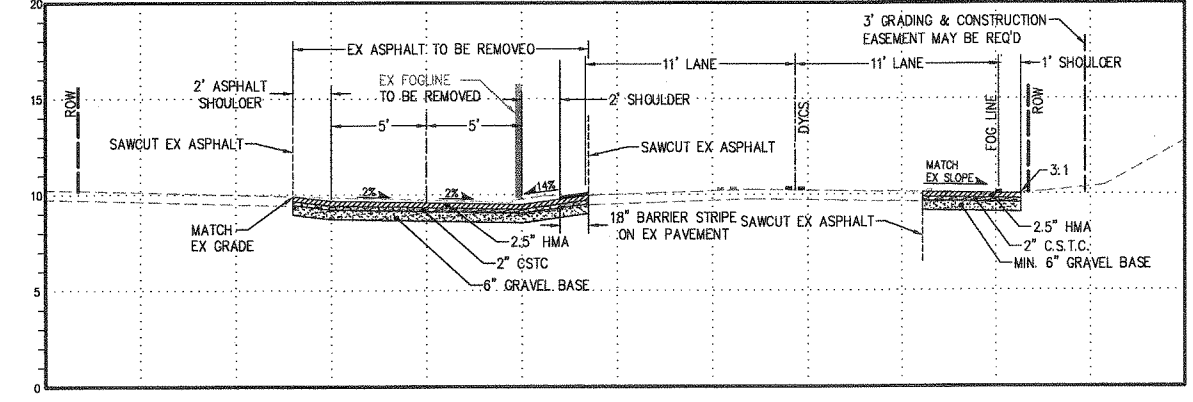
**TRAIL SECTIONS STA 57+87 TO STA 59+54**  
**City of Port Orchard Pedestrian Enhancement Project**  
**Mosquito Fleet Trail**  
Situatue Within Gov't Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

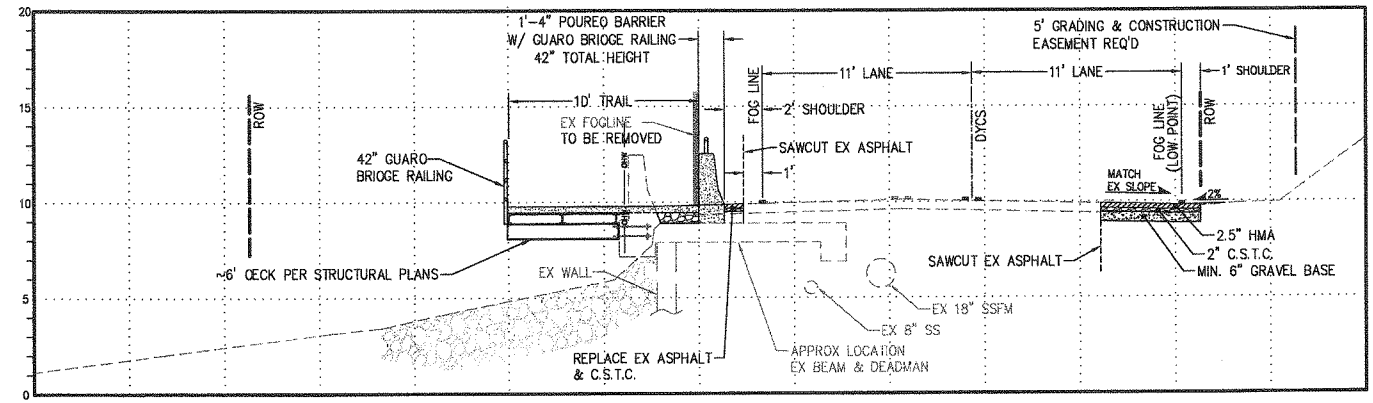
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DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407236**  
SHEET C7.8



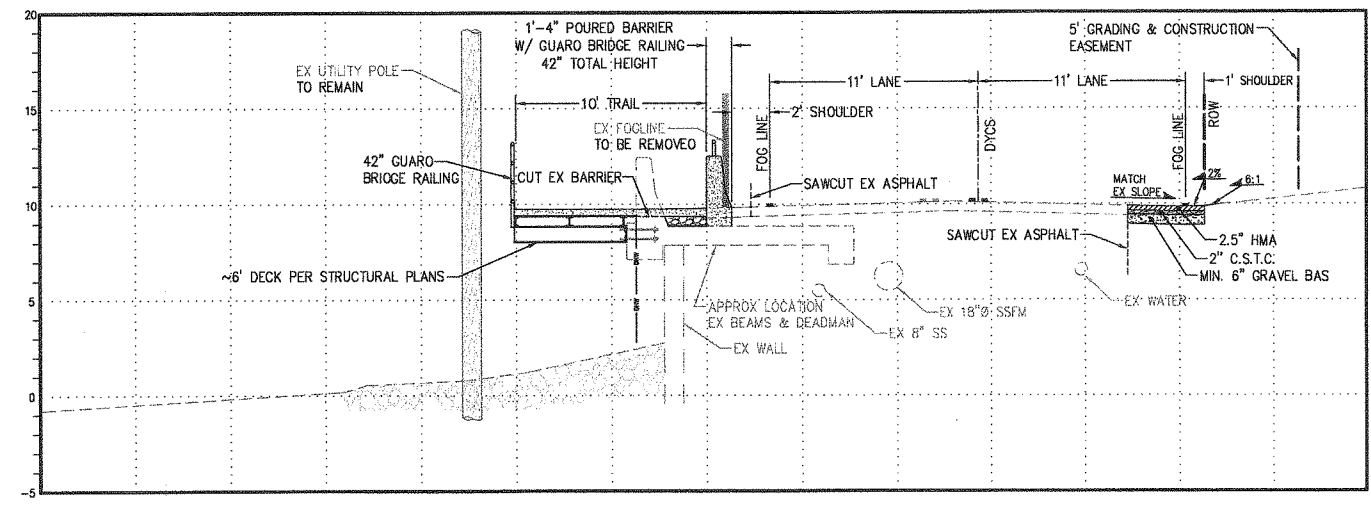
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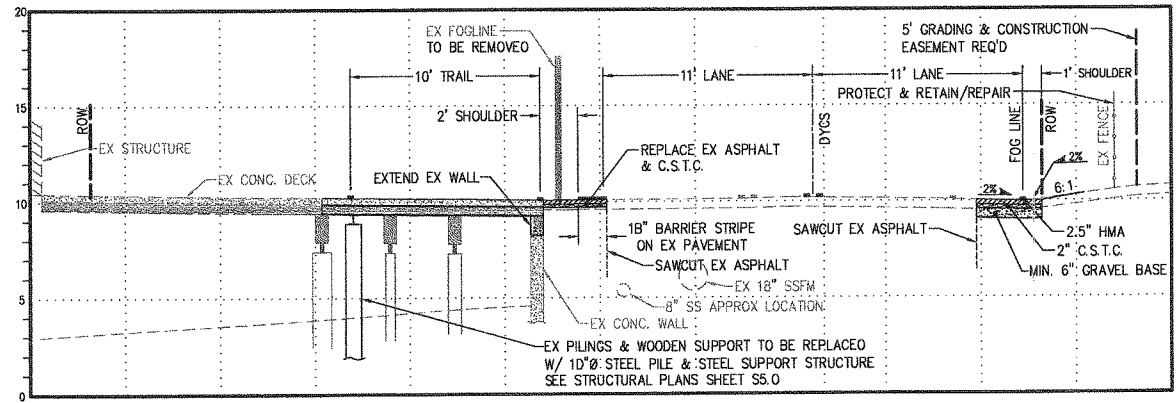
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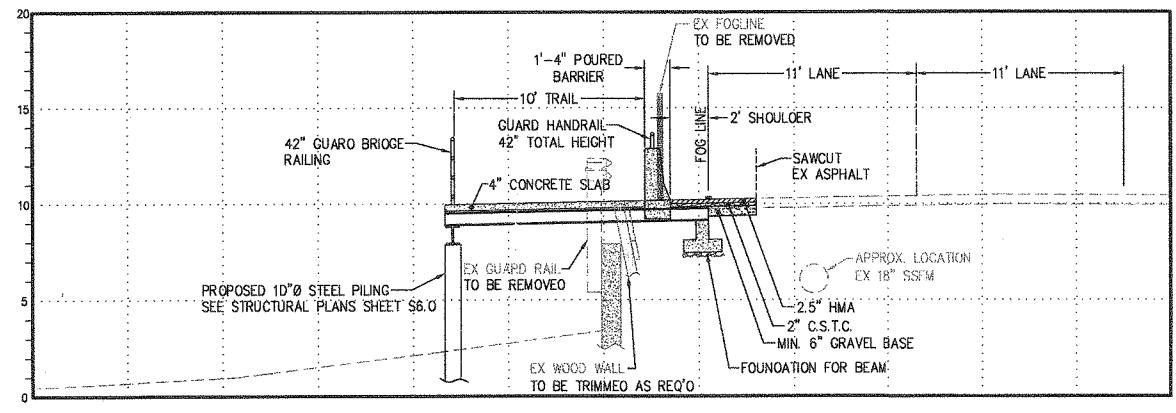
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SCALE 1"=5'



TRAIL SECTION STA. 62+17  
SCALE 1"=5'



TRAIL SECTION STA. 62+72  
SCALE 1"=5'



TRAIL SECTION STA. 63+19  
SCALE 1"=5'

C:\projects\7337 MOSQUITO FLEET TRAIL.dwg 9/14/2012 3:22:36 PM, jbrampton, \\WLOCPA\Geo TDS70

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOI	9/12
APPROVED	
ACCEPTED	

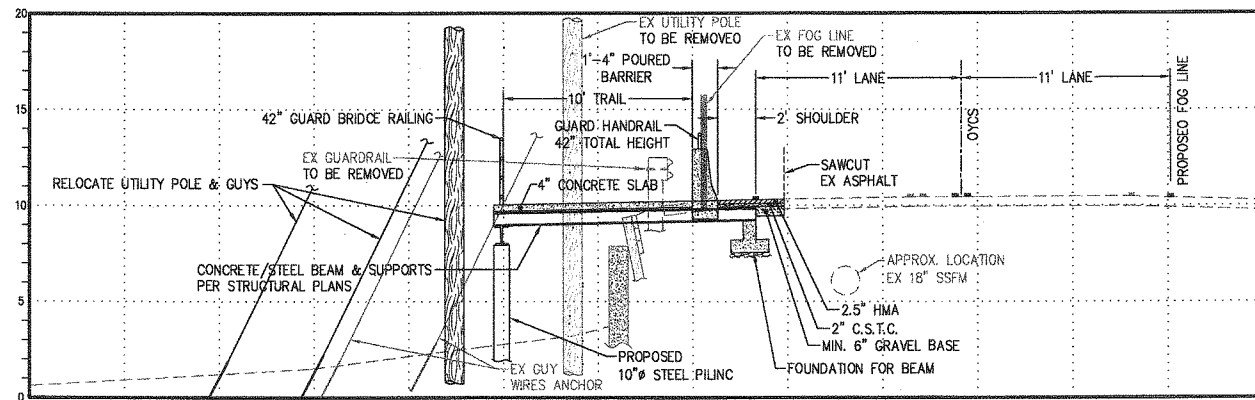
**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

9/19/12

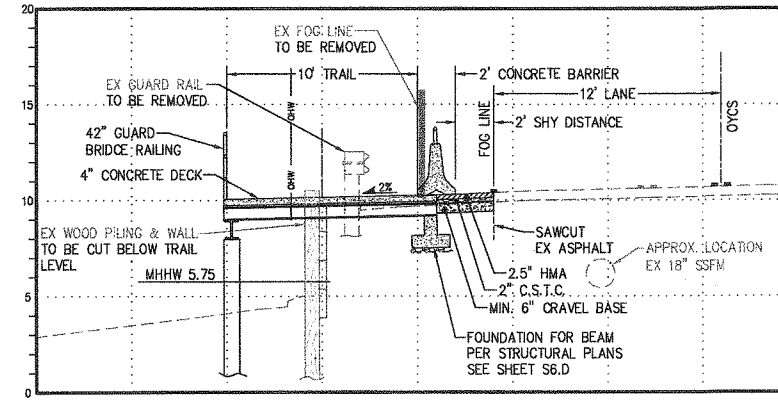
**TRAIL SECTIONS STA 59+93 TO STA 63+19**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situata Within Gov't Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

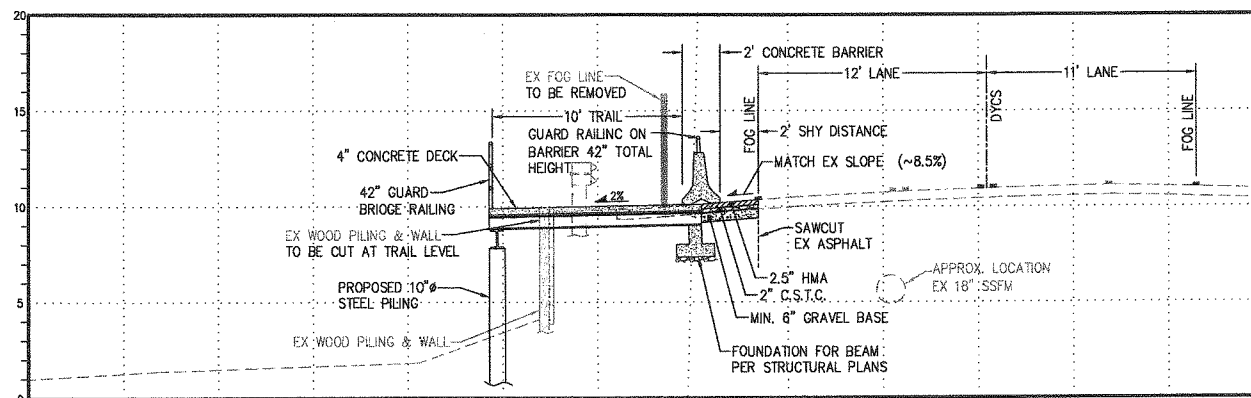
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DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407237**  
SHEET C7.9



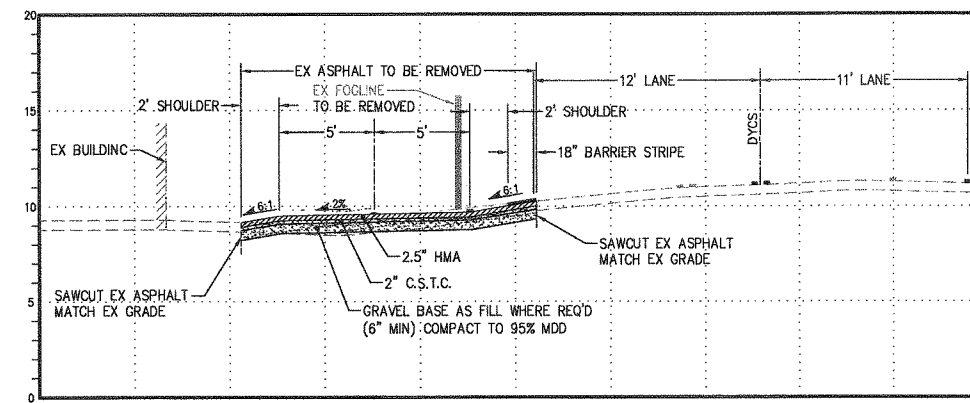
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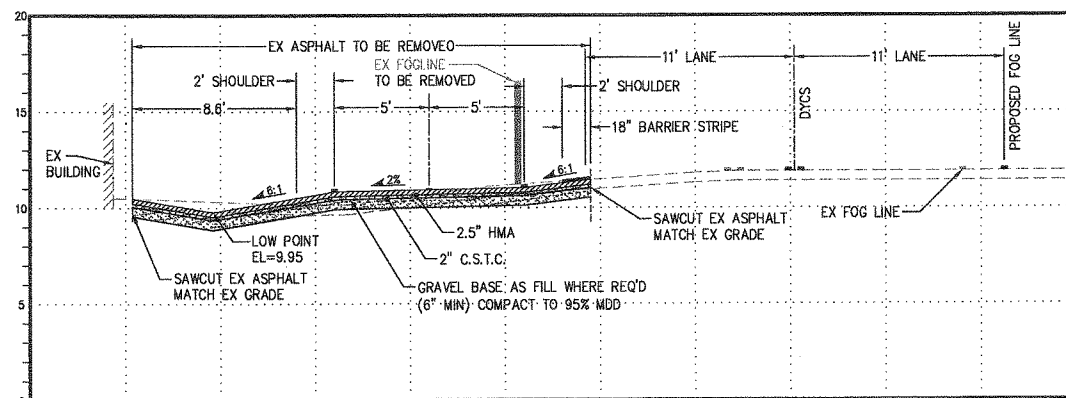
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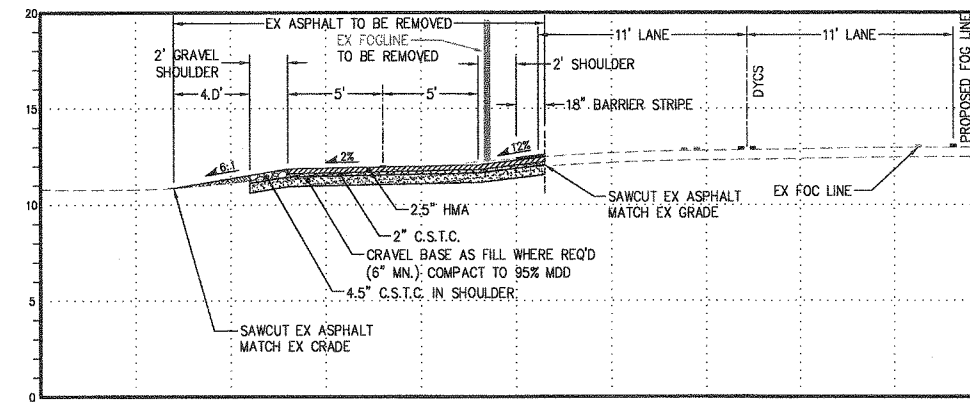
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TRAIL SECTION STA. 64+83  
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TRAIL SECTION STA. 65+72  
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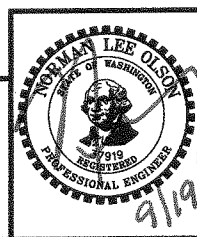


TRAIL SECTION STA. 66+10  
SCALE 1"=5'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOI	9/12
APPROVED	
ACCEPTED	

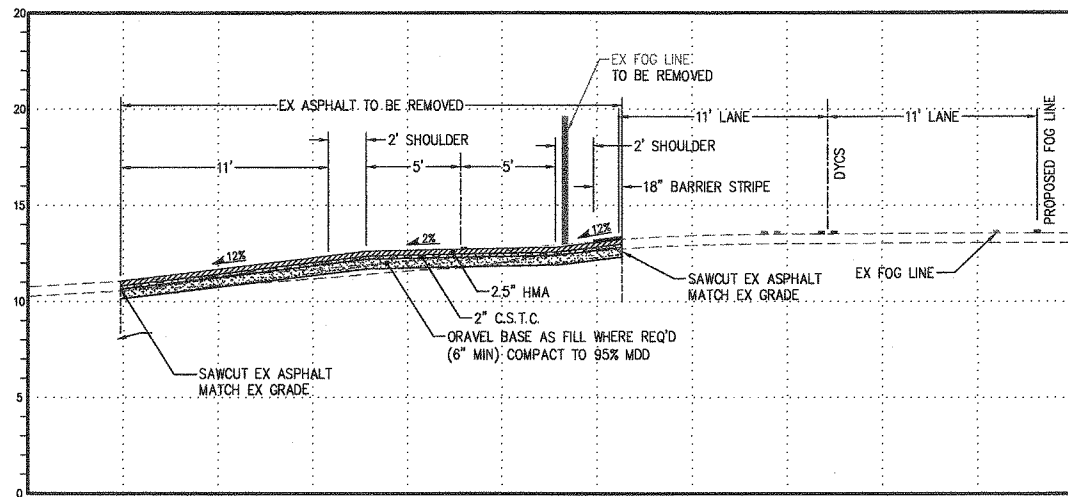
**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



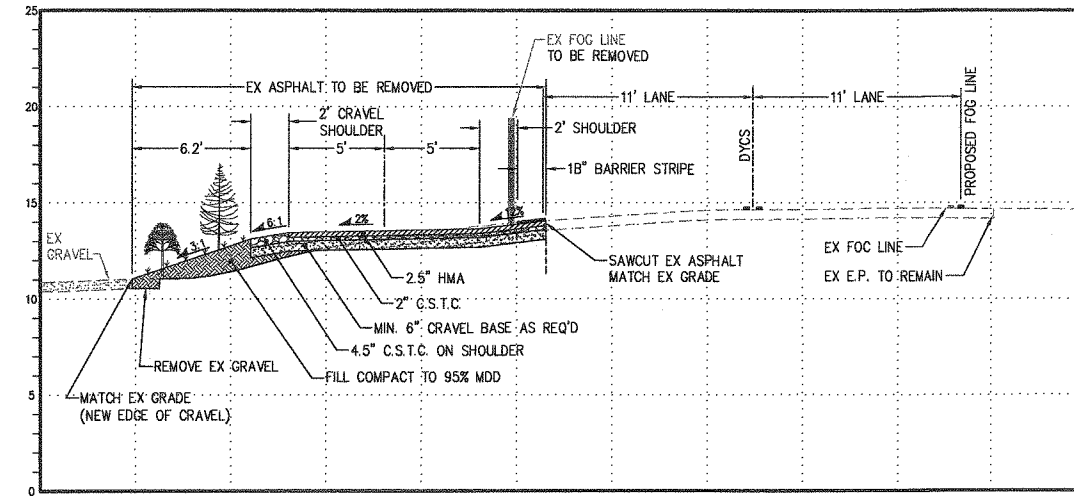
**TRAIL SECTIONS STA 63+44 TO STA 66+35**  
**City of Port Orchard Pedestrian Enhancement Project**  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

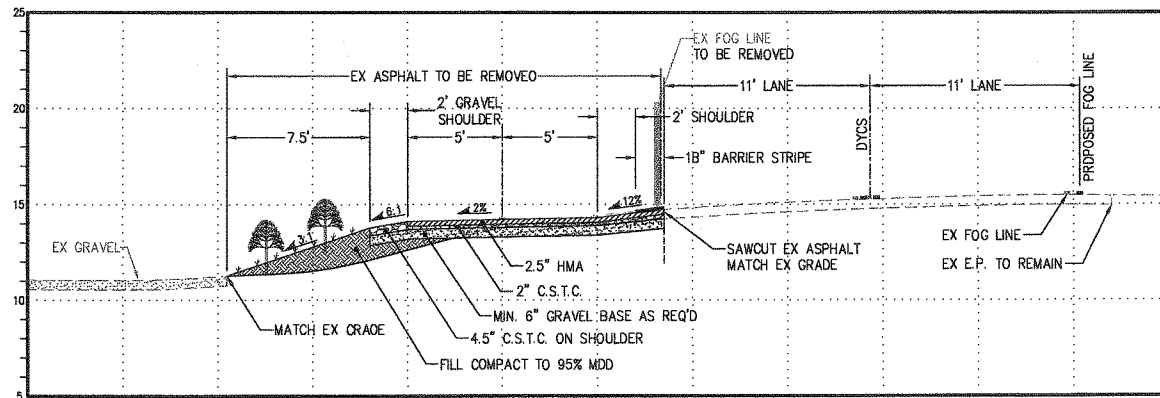
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DRAWING NUMBER  
**097337-407238**  
SHEET C7.10



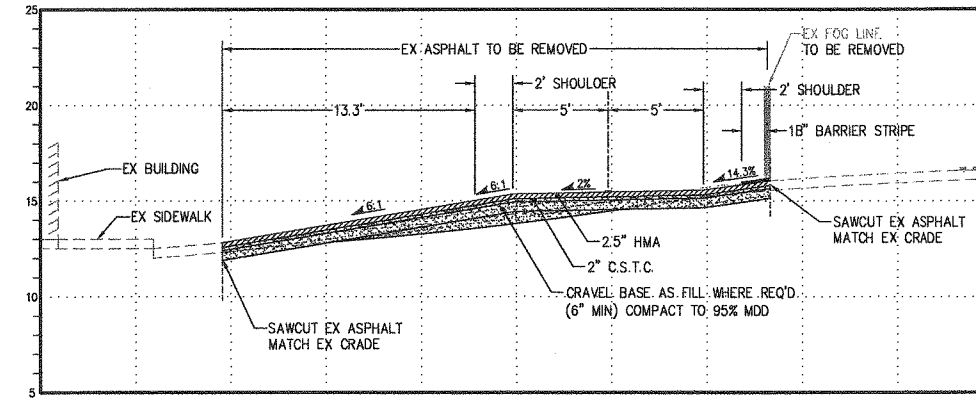
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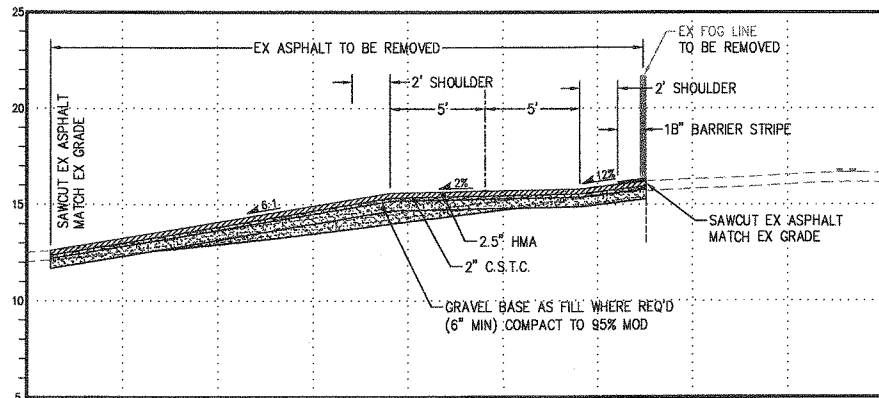
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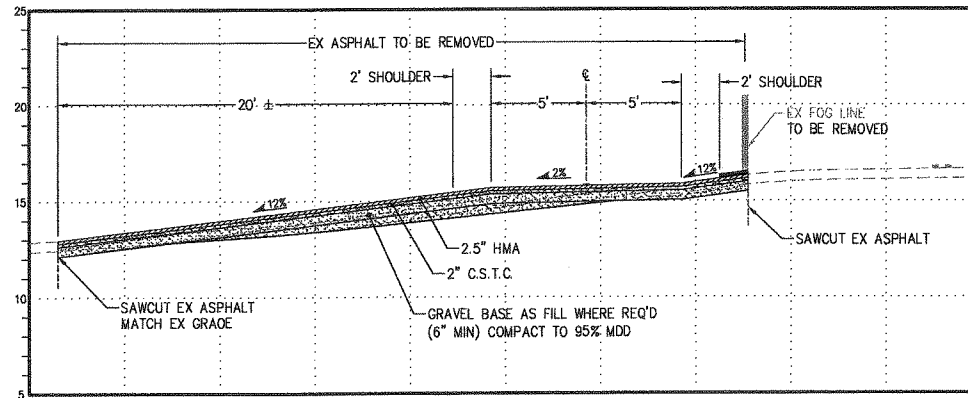
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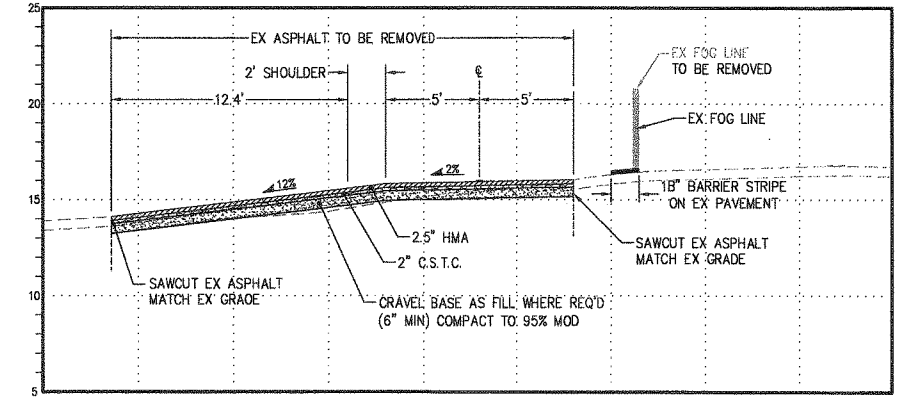
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TRAIL SECTION STA. 68+49  
 SCALE 1"=5'



TRAIL SECTION STA. 68+77  
 SCALE 1"=5'

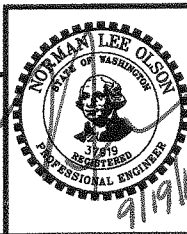


TRAIL SECTION STA. 69+03  
 SCALE 1"=5'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE
RPJ	RPJ	9/12
JAT	JAT	9/12
NLOII	NLOII	9/12

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**TRAIL SECTIONS STA 66+65 TO STA 69+27**  
 City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1"=5'  
 DATE: Sep. 12, 2012  
 DRAWING NUMBER  
**097337-407239**  
 SHEET C7.11

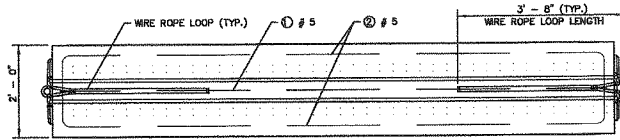


**ROAD & STORM DRAINAGE CONSTRUCTION  
INSPECTION REQUIREMENTS AND SCHEDULES**

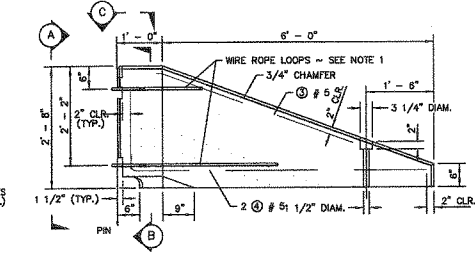
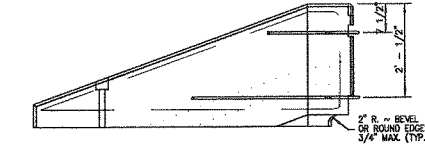
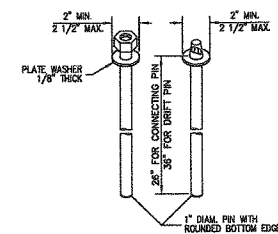
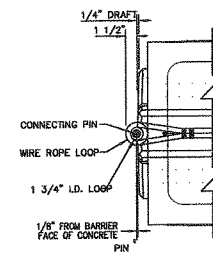
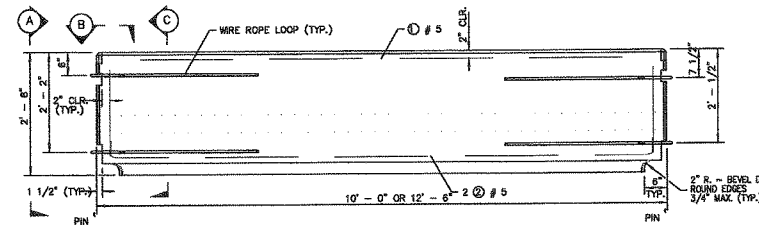
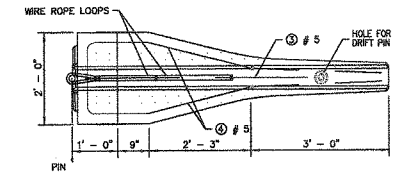
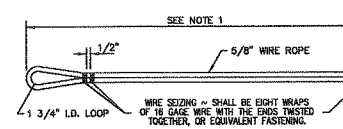
1. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER TO ARRANGE INSPECTION SCHEDULES FOR THOSE PHASES OF WORK CHECKED BELOW. INSPECTION SCHEDULES SHALL BE ARRANGED PRIOR TO PROCEEDING TO THE NEXT PHASE OF WORK. INSPECTIONS IN ADDITION TO THOSE INDICATED MAY BE REQUIRED BY THE CITY. THE CONTRACTOR SHALL VERIFY THE INSPECTIONS REQUIRED WITH THE CITY AND SHALL ARRANGE INSPECTIONS SCHEDULES BY CONTACTING THE CITY ENGINEER'S OFFICE.

- ✓ A. IMPLEMENTATION OF VARIOUS PHASES OF TEMPORARY EROSION AND SEDIMENTATION CONTROL PLANS.
- B. PLACEMENT OF THE MAJOR DRAINAGE STRUCTURES PRIOR TO BACKFILLING.
- ✓ C. COMPLETION OF SUBGRADE PREPARATION.
- ✓ D. COMPLETION OF PLACEMENT OF GRAVEL BASE.
- ✓ E. COMPLETION OF PLACEMENT OF CRUSHED SURFACING.
- ✓ F. COMPLETION OF FINE GRADING PRIOR TO PAVING.
- ✓ G. COMPLETION OF PAVEMENT INSTALLATIONS.

2. IF ADEQUATE INSPECTION IS NOT CALLED FOR BEFORE COMPLETION OF THE PAVEMENT CONSTRUCTION, IT MAY BE NECESSARY FOR CORE DRILLING AND TESTING TO BE PERFORMED TO ASSURE AN ACCEPTABLE QUALITY OF ROADWAY. WHEN CORE DRILLING IS FOUND TO BE NECESSARY, THE CONTRACTOR WILL BE BILLED AND HELD RESPONSIBLE FOR ALL COSTS INCURRED.



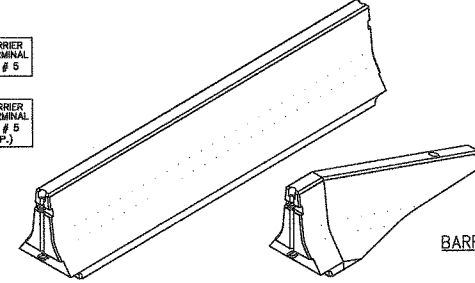
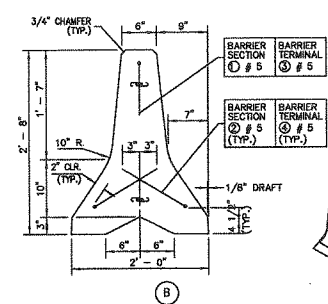
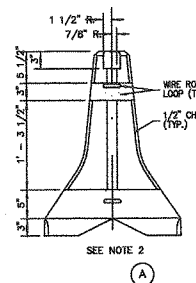
1. WIRE ROPE LOOPS SHALL BE 3' - 8" LONG, EXCEPT FOR THE TOP LOOP OF THE BARRIER TERMINAL, WHICH SHALL BE 2' - 0" LONG.
2. EXCEPT FOR THE LOCATIONS OF THE WIRE ROPE LOOPS, THE DIMENSIONS SHOWN IN END VIEW "A" ARE TYPICAL FOR BOTH ENDS OF A BARRIER SECTION OR OPPOSING ENDS OF BARRIER TERMINALS.
3. CONNECTING AND DRIFT PIN HEAD DESIGNS VARY AMONG DIFFERENT MANUFACTURERS. PIN DESIGNS THAT ARE SHAPED DIFFERENTLY THAN THOSE SHOWN IN THE DETAIL ARE ACCEPTABLE, IF THE BEARING SURFACE IS WITHIN THE MINIMUM AND MAXIMUM WIDTHS SPECIFIED.
4. THE VERTICAL SPACING OF THE WIRE ROPE LOOPS IN A BARRIER TERMINAL IS DETERMINED BY THE END OF THE BARRIER SEGMENT TO WHICH IT IS BEING CONNECTED. SEE BARRIER CONNECTION DETAIL (SHEET 2).



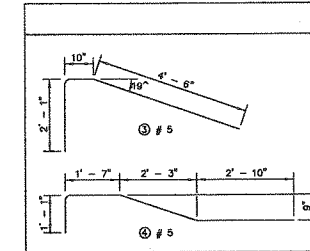
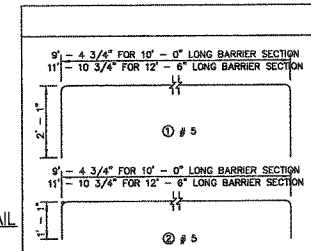
SEE NOTE 4  
**BARRIER TERMINAL**

**GRADING NOTES**

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OR DISCOVERY OF POOR SOILS, GROUNDWATER OR DISCREPANCIES IN THE EXISTING CONDITIONS AS NOTED ON THE PLANS.
2. MAXIMUM SLOPE STEEPNESS SHALL BE 2:1 HORIZONTAL:VERTICAL FOR CUT AND FILL SLOPES.
3. UNLESS OTHERWISE SPECIFIED, ALL EMBANKMENTS IN THE PLAN SET SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 2-03.3(14)B OF THE WSDOT STANDARD SPECIFICATIONS. EMBANKMENT COMPACTIONS SHALL CONFORM TO SECTION 2-03.3(14)C, METHOD B OF SAIO STANDARD SPECIFICATION.
4. EMBANKMENTS DESIGNED TO IMPOUND WATER SHALL BE COMPACTED TO 95% MAXIMUM DENSITY PER SECTION 2-03.3(14)C, METHOD C OF WSDOT STANDARD SPECIFICATIONS.
5. ALL AREAS RECEIVING FILL MATERIAL SHALL BE PREPARED BY REMOVING VEGETATION, NONCOMPLYING FILL, TOPSOIL AND OTHER UNSUITABLE MATERIAL, BY SCARIFYING THE SURFACE TO PROVIDE A BOND WITH THE NEW FILL, AND WHERE THE SLOPES ARE STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL AND THE HEIGHT IS GREATER THAN 5 FT., BY BENCHING INTO SOUND COMPETENT MATERIAL AS DETERMINED BY A GEOTECHNICAL ENGINEER.



**BARRIER CONNECTION DETAIL**



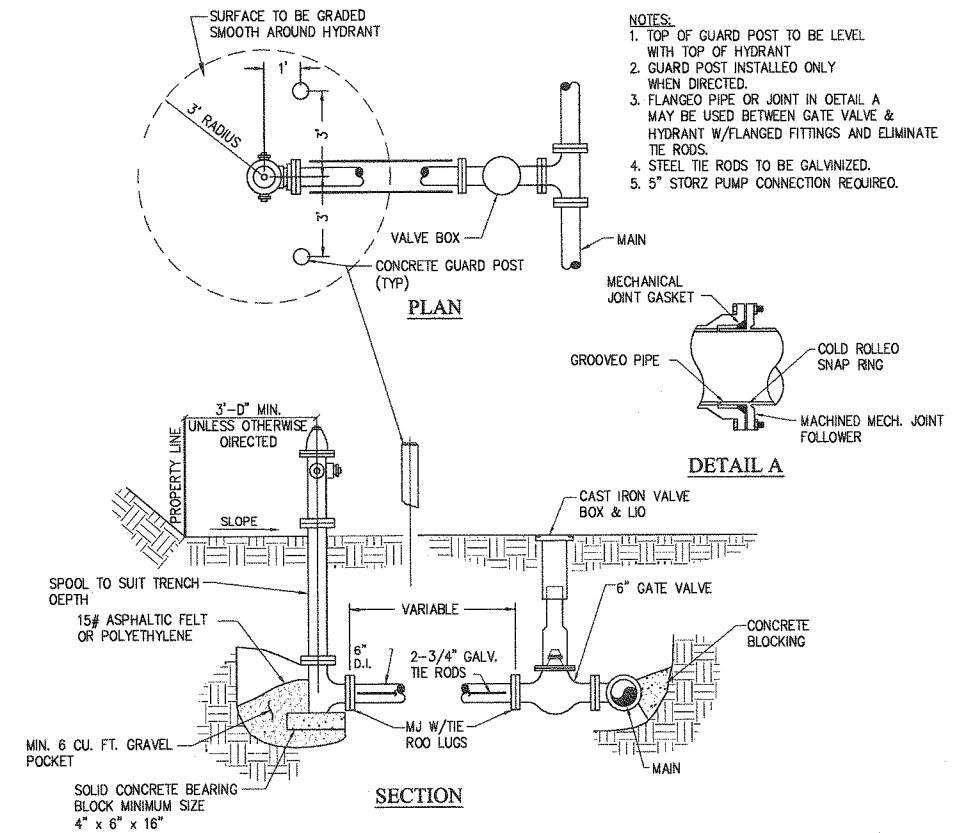
**CONCRETE BARRIER TYPE 2  
WSDOT STD PLAN C-8**

**CONSTRUCTION NOTES**

1. ALL WORK SHALL BE IN CONFORMANCE WITH THE LATEST REVISION OF THE "2012" STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" AS JOINTLY ADOPTED BY WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION (WASHINGTON STATE CHAPTER).
2. ANY REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED BY WASHINGTON STATE DEPARTMENT OF TRANSPORTATION PRIOR TO ANY IMPLEMENTATION IN THE FIELD.
3. THE LOCATION OF EXISTING UTILITIES SHOWN ON THIS PLAN IS APPROXIMATE ONLY. THE CONTRACTOR SHALL CONTACT THE "UNDERGROUND LOCATE" CENTER AND NON-SUBSCRIBING INDIVIDUAL UTILITY COMPANIES 48 HOURS IN ADVANCE OF THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY (PHONE #1-800-424-5555). THE CONTRACTOR SHALL PROVIDE PROTECTION OF EXISTING UTILITIES FROM DAMAGE CAUSED BY CONTRACTOR OPERATIONS.
4. DRAINAGE SYSTEM SHALL BE INSTALLED AND FUNCTIONING PRIOR TO INSTALLATION OF PAVING.
5. CONTRACTOR SHALL HAVE AVAILABLE, AT THE SITE AT ALL TIMES DURING CONSTRUCTION, A SET OF APPROVED FINAL CONSTRUCTION PLANS.
6. BEFORE WORKING IN STATE RIGHT-OF-WAY, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED BY THE STATE OF WASHINGTON.
7. ALL SLOPES SHALL BE 4:1. (UNLESS OTHERWISE NOTED)
8. CONTRACTOR WILL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL REQUIRED AS A RESULT OF HIS/HER OPERATIONS.
9. CONTRACTOR SHALL USE A PROFESSIONAL LAND SURVEYOR FOR ALL CONSTRUCTION STAKING.
10. UNLESS OTHERWISE INDICATED ON PLANS, ALL STORM SEWER PIPE HAS BEEN SIZED TO MEET MANNING'S ROUGHNESS COEFFICIENT, N = 0.012. THE CONTRACTOR SHALL HAVE THE OPTION TO:
  - A. INSTALL STORM SEWER PIPE AS INDICATED ON PLANS USING PIPE WHICH MEETS, n=0.012
  - B. OR PROVIDE "ENGINEER" W/ REVISED PLANS W/ DIAMETERS AND OR SLOPE ADJUSTMENTS AS REQUIRED.
11. ALL SURFACE & PAVING DEPTHS ARE COMPACTED DEPTHS. COURSES SHALL NOT EXCEED DEPTHS DEFINED IN W.S.D.O.T. 5-04.3(9)

**STORM AND GRADING MATERIAL SPECIFICATIONS**

1. STORM SEWER PIPE:
  - \*CORRUGATED METAL PIPE n=0.012 (CMP) PER W.S.O.T. 9-05.9
  - \*CONCRETE PIPE PER W.S.D.O.T. 9-05.7(1) & 9-05.7(2) n=0.012
  - \*CORRUGATED HIGH DENSITY POLYETHYLENE PIPE. WSDOT 9-05.20
2. PIPE BEDDING: W.S.D.O.T. 9-03.12(3) GRAVEL BACKFILL FOR PIPE BEDDING.
3. INITIAL BACKFILL: NATIVE MATERIAL OBTAINED FROM EXCAVATION PER W.S.D.O.T. 7-08.3(3)
4. REMAINING BACKFILL: NATIVE MATERIAL OBTAINED FROM EXCAVATION PER W.S.D.O.T. 2-09.3(1)E.
5. RIP-RAP: W.S.D.O.T. 9-13.1, LOOSE RIPRAP IN SIZES RANGING FROM 3" TO 1/3 CUBIC FOOT.
6. PAVEMENT SECTION: HOT MIX ASPHALT, W.S.D.O.T. 5-04 TOP COURSE, W.S.O.T. 9-03.9(3) BASE COURSE, W.S.O.T. 9-03.10



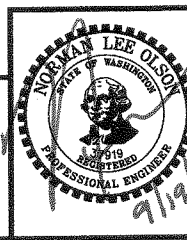
- NOTES:**
1. TOP OF GUARD POST TO BE LEVEL WITH TOP OF HYDRANT WHEN DIRECTED.
  2. GUARD POST INSTALLED ONLY WHEN DIRECTED.
  3. FLANGED PIPE OR JOINT IN DETAIL A MAY BE USED BETWEEN GATE VALVE & HYDRANT W/FLANGED FITTINGS AND ELIMINATE THE ROSS.
  4. STEEL TIE RODS TO BE GALVANIZED.
  5. 5" STORZ PUMP CONNECTION REQUIRED.

**HYDRANT ASSEMBLY  
NOT TO SCALE**

**REVISIONS**

NO.	DATE	BY	DESCRIPTION	DESIGNED	RPJ	9/12
				DRAWN	JAT	9/12
				CHECKED	NLOI	9/12
				APPROVED		
				ACCEPTED		

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



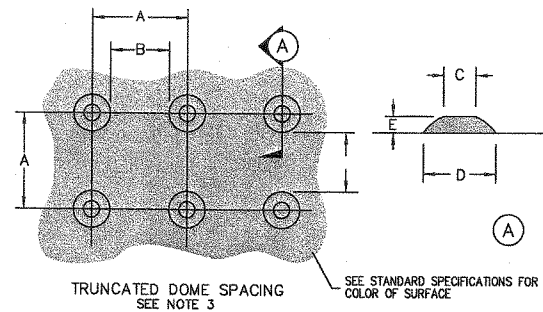
**MISC NOTES AND DETAILS 1**

**City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:

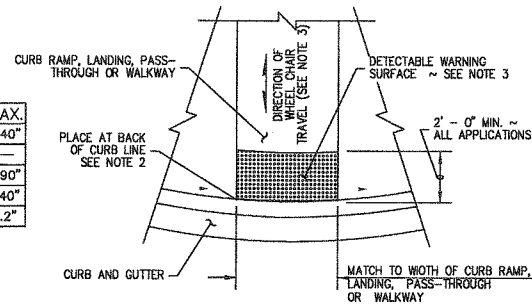
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: AS SHOWN  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407240**  
SHEET C8.0

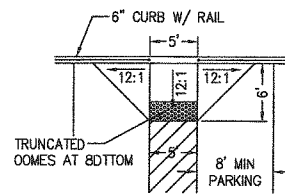


TRUNCATED DOME DETAILS

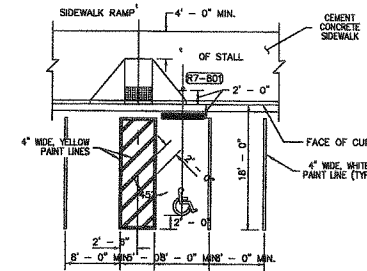
	MIN.	MAX.
A	1.60"	2.40"
B	0.65"	—
C	0.45"	0.90"
D	0.9"	1.40"
E	0.2"	0.2"



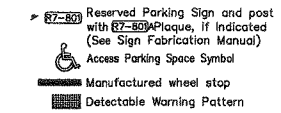
DETECTABLE WARNING SURFACE DETAIL



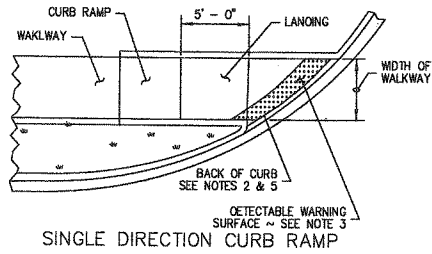
ALTERNATIVE REPLACEMENT RAMP  
MARINA PARK AREA



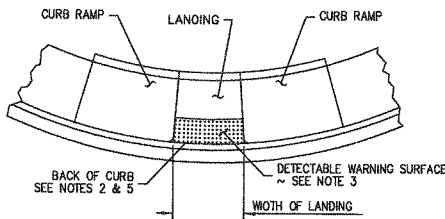
1. AN ACCESS PARKING SPACE SYMBOL IS REQUIRED FOR EACH ACCESSIBLE PARKING STALL. A BLUE BACKGROUND AND WHITE BORDER ARE REQUIRED WHEN THE SYMBOL IS INSTALLED ON A CEMENT CONCRETE SURFACE.
2. ALL ACCESSIBLE STALLS SHALL HAVE WHEEL STOPS. PLACE WHEEL STOPS IN OTHER STALLS WHEN SPECIFIED IN THE CONTRACT. WHEEL STOPS SHALL BE APPROXIMATELY 6" HIGH AND A MINIMUM OF 6' LONG.
3. REFER TO THE STANDARD PLANS FOR SIDEWALK RAMP, DETECTABLE WARNING PATTERN, AND CURB DETAILS.



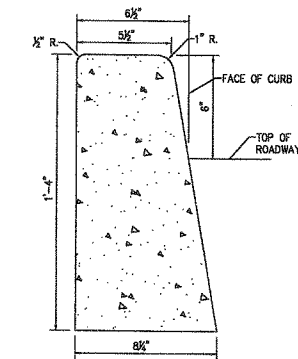
**A** PARKING SPACE LAYOUTS  
C8.1 WSDOT STD PLAN M-17.10-02



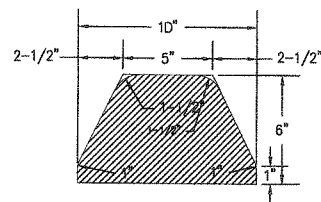
SINGLE DIRECTION CURB RAMP



PARALLEL CURB RAMP



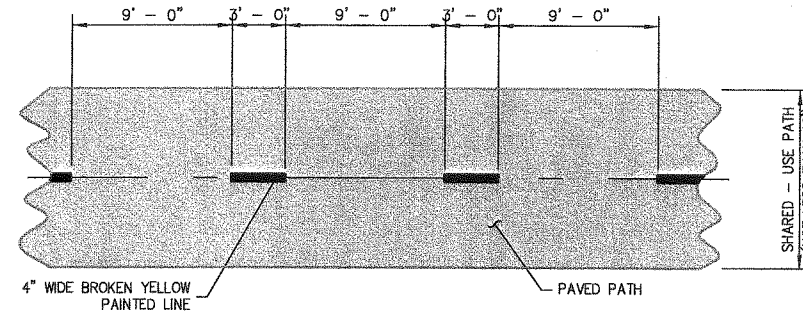
CONCRETE CURB  
WSDOT STD PLAN F-10-12.00



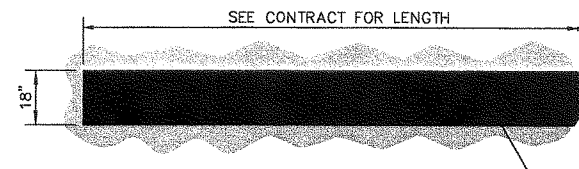
TYPE 6  
EXTRUDED CURB  
WSDOT STD PLAN F-10-42.00

NOTES

1. The Detectable Warning Surface shall extend the full width of the curb ramp (exclusive of flares) or the landing.
2. The edge of the Detectable Warning Surface shall be placed along the back of the curb line.
3. The rows of truncated domes in a Detectable Warning Surface shall be parallel with the direction of wheel chair travel.
4. See Standard Plans for sidewalk and curb ramp details.
5. If a curb is not present, place the Detectable Warning Surface at the edge of the pavement.
6. If a curb ramp is required, the location of the Detectable Warning Surface must be at the bottom of the ramp and within the required distance from rail.



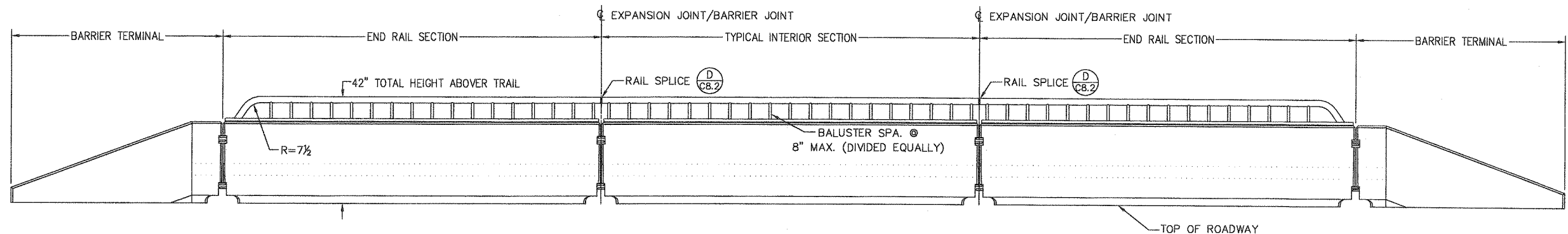
SHARED USE PATH MARKINGS  
WSDOT STD PLAN M-9.60-00



BARRIER LINE  
WSDOT STD PLAN M-20.10-02

NOTES

1. PIPE RAILING, PIPE RAILING SPLICES, COVER PLATES AND BOTTOM EXTRUDED CHANNELS SHALL BE BENT TO THE HORIZONTAL CURVE WHERE THE RADIUS OF CURVATURE IS LESS THAN 200'. THESE ITEMS MAY BE HEATED TO NOT MORE THAN 400°F FOR A PERIOD NOT TO EXCEED 30 MINUTES TO FACILITATE FORMING OR BENDING TO HORIZONTAL CURVATURE.
2. SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIAL SPECIFICATIONS SHALL BE PROVIDED IN THE SHOP DRAWINGS FOR ALL COMPONENTS.
3. CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
4. WELDING OF ALUMINUM SHALL CONFORM TO STO. SPEC. SECTION 9-28.14(3).
5. ALL ALUMINUM PARTS SHALL BE GIVEN A \* [CLEAR OR BRONZE] ANODIC COATING OF AT LEAST 0.0008" THICK AND SEALED TO MEET THE REQUIREMENTS OF ASTM B 58D WITH A UNIFORM FINISH.
6. PIPE RAILING, PIPE BALUSTERS AND PIPE RAILING SPLICES SHALL BE ADEQUATELY WRAPPED TO INSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.



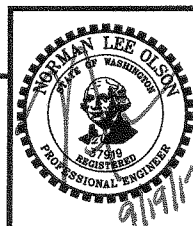
CONCRETE BARRIER TYPE 2 WITH GUARD HANDRAIL

REVISIONS

NO.	DATE	BY	DESCRIPTION

	BY	DATE
DESIGNED	RPJ	9/12
DRAWN	JAT	9/12
CHECKED	NLDH	9/12
APPROVED		
ACCEPTED		

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(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



MISC NOTES AND DETAILS 2

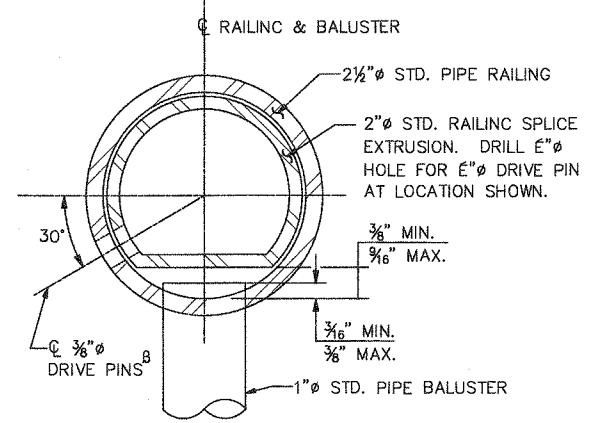
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail

Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:

**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: AS SHOWN  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407241**  
SHEET C8.1



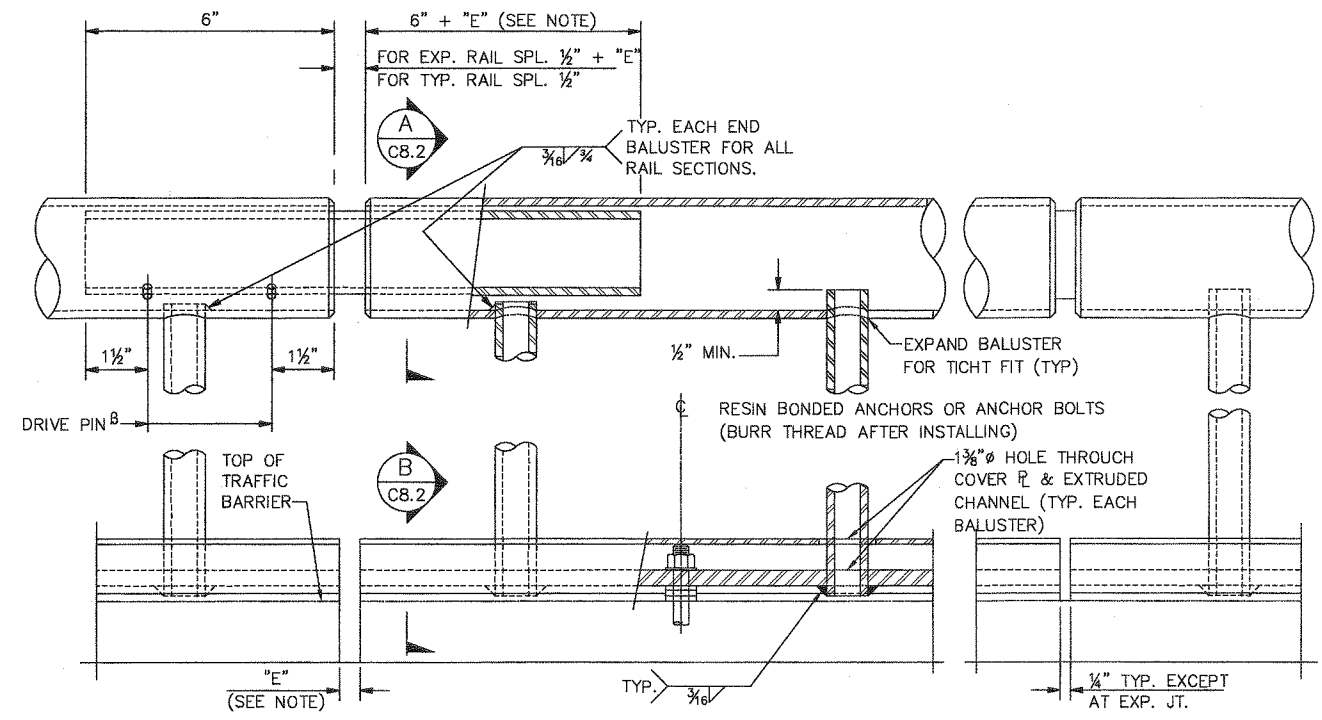
**A** RAIL SPICE DETAIL  
C8.2 OPTION #1

B LOCATE ON OPPOSITE SIDE OF TRAFFIC. DRIVE PINS SHALL BE DRIVEN FLUSH WITH THE OUTSIDE FACE OF THE RAILING.

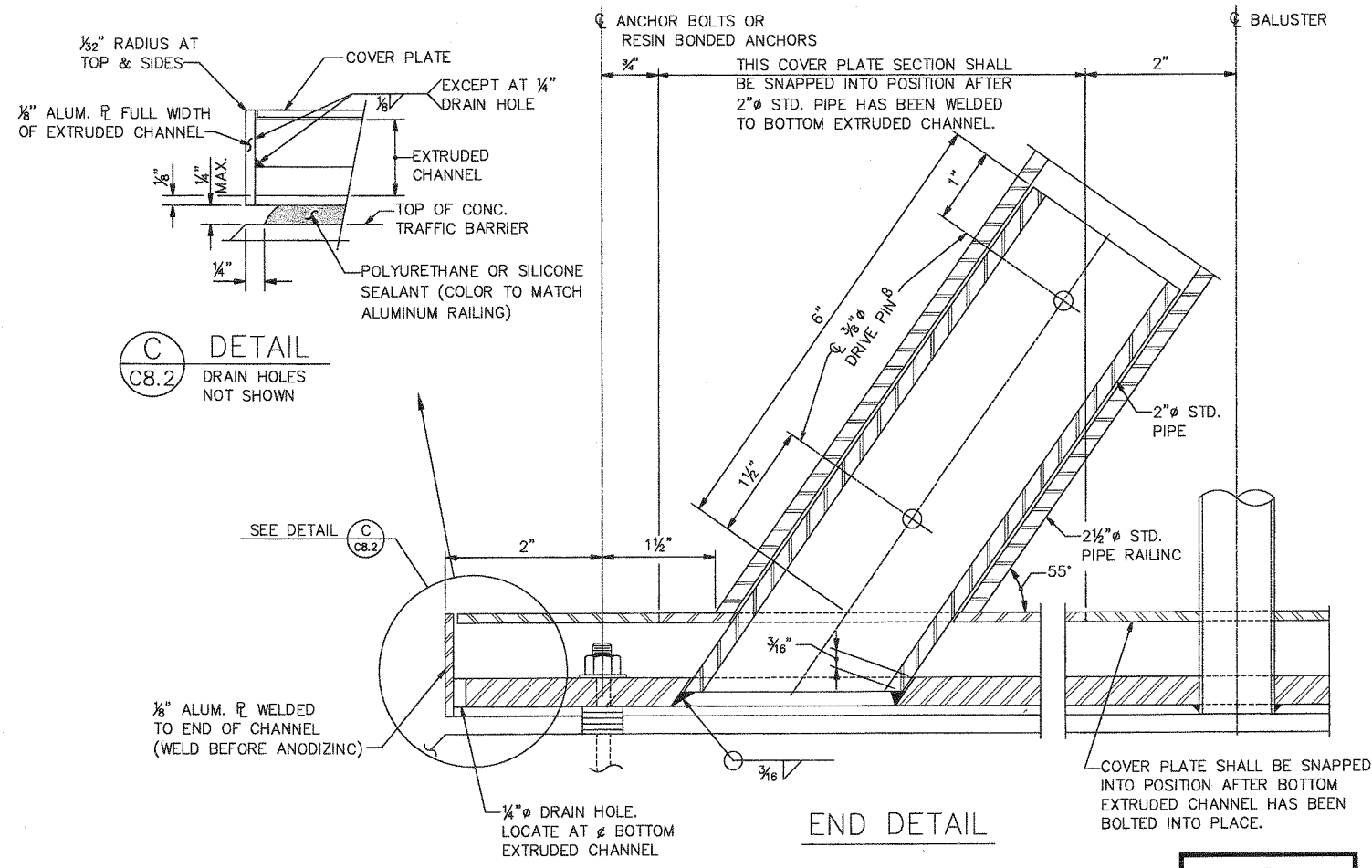
PROVIDE EXPANSION RAIL SPICE AT TRAFFIC BARRIER EXPANSION JOINTS OR BETWEEN BARRIER SECTIONS. RAIL SPICE JOINTS ARE NOT REQUIRED AT TRAFFIC BARRIER DUMMY JOINTS.

LOCATE ON OPPOSITE SIDE OF TRAFFIC. DRIVE PINS SHALL BE DRIVEN FLUSH WITH THE OUTSIDE FACE OF THE RAILING.

NOTE:  
"E" DIMENSION SHALL BE EQUAL TO OPENING OF TRAFFIC BARRIER EXPANSION JOINTS.

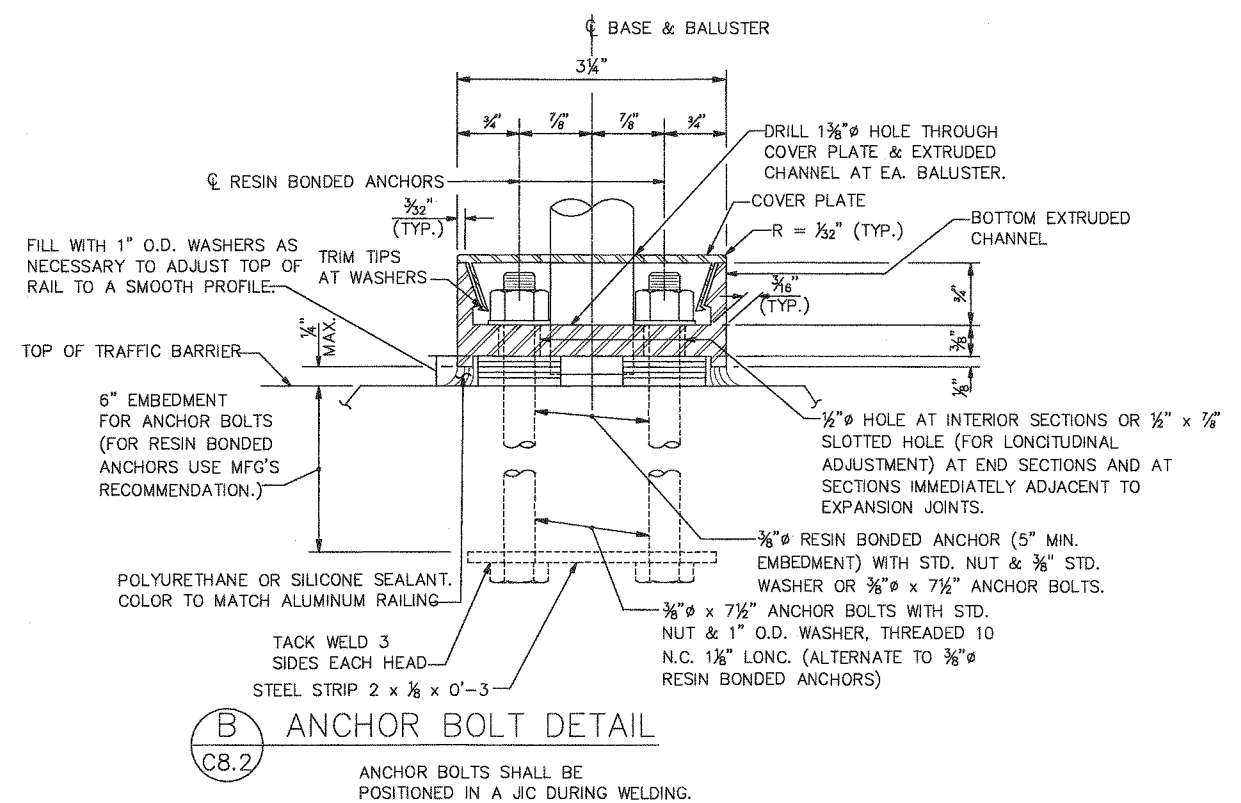


**D** RAIL SPICE  
C8.2



**C** DETAIL  
C8.2 DRAIN HOLES NOT SHOWN

**END DETAIL**

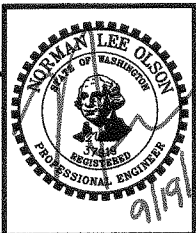


**B** ANCHOR BOLT DETAIL  
C8.2 ANCHOR BOLTS SHALL BE POSITIONED IN A JIC DURING WELDING.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOI	9/12
APPROVED	
ACCEPTED	

**N.L. Olson & Associates, Inc.**  
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(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

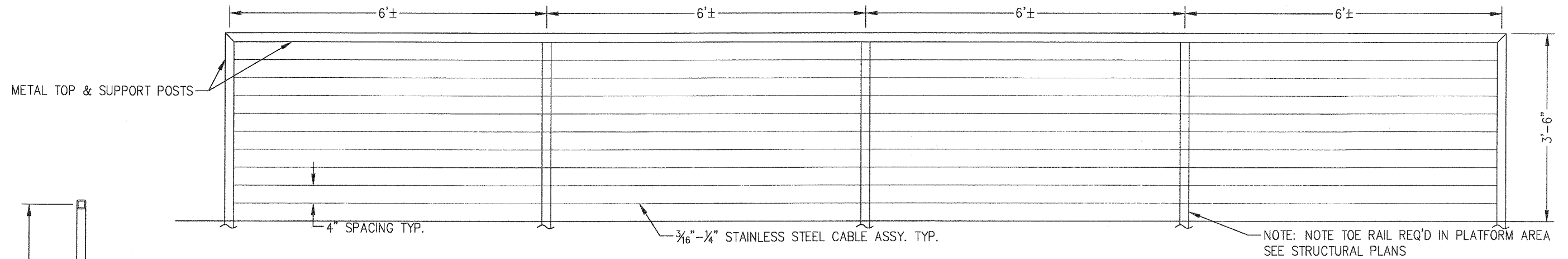


**MISC NOTES AND DETAILS 3**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

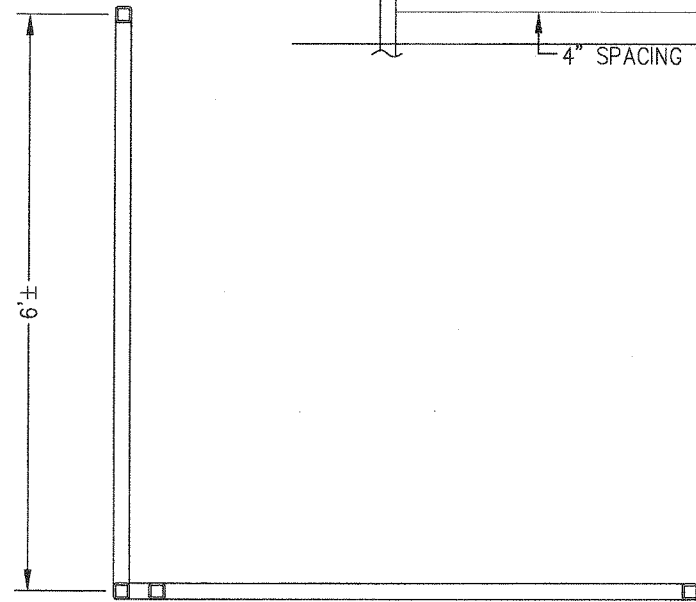
FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: N.T.S.  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407242**  
SHEET C8.2

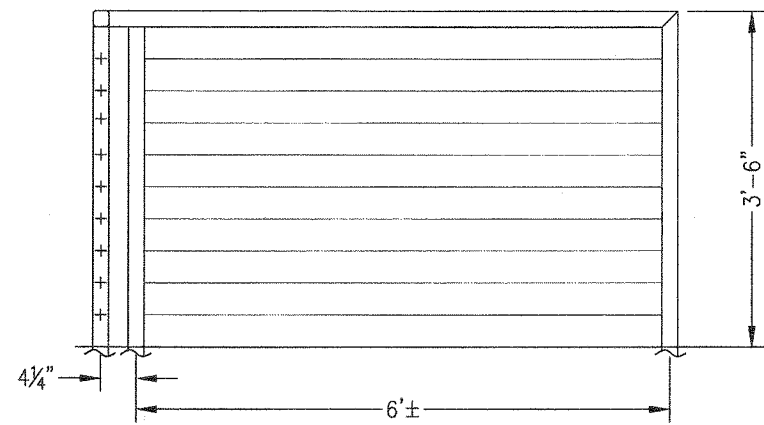
C:\projects\237 MOSQUITO FLEET TRAIL\DWG\2377 FINAL TRAIL REV\2377 55.0 TO 56.1 STRUCTURAL.dwg, 9/14/2012 3:55:33 PM, jthompson, V:\CADD\06-105700



42" GUARD BRIDGE RAILING TYPICAL DETAIL (SEE SPECIAL PROVISIONS)  
SCALE 1"=1'



42" GUARD BRIDGE RAILING CORNER SECTION  
SCALE 1"=1'

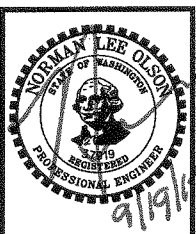


C:\projects\337 MOSQUITO FLEET TRAIL.dwg 9/13/2012 4:55:54 PM jromp999, UNLOCKED 125700

REVISIONS			
NO.	DATE	BY	DESCRIPTION

	BY	DATE
DESIGNED	RPJ	9/12
DRAWN	JAT	9/12
CHECKED	NLOI	9/12
APPROVED		
ACCEPTED		

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 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**MISC NOTES AND DETAILS 4**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
 Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: AS SHOWN  
 DATE: Sep. 12, 2012  
 DRAWING NUMBER  
**097337-407243**  
 SHEET C8.3



**GENERAL EROSION AND SEDIMENTATION CONTROL NOTES**

THE FOLLOWING EROSION AND SEDIMENTATION CONTROL NOTES APPLY TO ALL CONSTRUCTION SITE ACTIVITIES AT ALL TIMES, UNLESS OTHERWISE SPECIFIED ON THESE PLANS:

- APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL PLAN DOES NOT CONSTITUTE AN ACCEPTANCE OF THE PERMANENT ROAD OR DRAINAGE DESIGN.
- THE OWNER AND HIS/HER CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR PREVENTING SILT-LADEN RUNOFF FROM DISCHARGING FROM THE PROJECT SITE. FAILURE BY THE OWNER AND/OR CONTRACTOR CAN RESULT IN A FINE. THE DESIGNATED TEMPORARY CONTACT PERSON NOTED ON THIS PLAN MUST BE AVAILABLE FOR CONTACT BY TELEPHONE ON A 24 HOUR BASIS THROUGHOUT CONSTRUCTION AND UNTIL THE PROJECT HAS BEEN COMPLETED AND ACCEPTED BY THE CITY.
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE CITY OF PORT ORCHARD AND/OR CONTRACTOR FROM THE BEGINNING OF CONSTRUCTION UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY THE CITY AND THE SITE IS STABILIZED.
- PRIOR TO BEGINNING ANY WORK ON THE PROJECT SITE, A PRE-CONSTRUCTION CONFERENCE MUST BE HELD, AND SHALL BE ATTENDED BY THE GENERAL CONTRACTOR, THE PROJECT ENGINEER, REPRESENTATIVES FROM THE AFFECTED UTILITIES, AND REPRESENTATIVES OF WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND CITY OF PORT ORCHARD.
- THE EROSION AND SEDIMENTATION CONTROL FACILITIES SHOWN ON THIS PLAN ARE TO BE CONSIDERED ADEQUATE BASIC REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION, DEVIATIONS FROM THIS PLAN MAY BE NECESSARY IN ORDER TO MAINTAIN WATER QUALITY. MINOR DEPARTURES FROM THIS PLAN ARE PERMITTED SUBJECT TO THE APPROVAL OF THE CITY INSPECTOR. HOWEVER, EXCEPT FOR EMERGENCY SITUATIONS, ALL OTHER DEVIATIONS FROM THIS PLAN MUST BE DESIGNED BY THE PROJECT ENGINEER AND APPROVED BY WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE CITY OF PORT ORCHARD.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED BY THE OWNER AND/OR CONTRACTOR ON A FREQUENT BASIS AND IMMEDIATELY AFTER EACH RAINFALL, AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. ALL SEDIMENT MUST BE REMOVED FROM THE SILT FENCES, STRAW BALES, SEDIMENT PONDS, ETC. PRIOR TO THE SEDIMENT REACHING 1/2 ITS MAXIMUM POTENTIAL DEPTH.
- AT NO TIME SHALL CONCRETE, CONCRETE BYPRODUCTS, VEHICLE FLUIDS, PAINT, CHEMICALS, OR OTHER POLLUTING MATTER BE PERMITTED TO DISCHARGE TO THE TEMPORARY OR PERMANENT DRAINAGE SYSTEM, OR TO DISCHARGE FROM THE PROJECT SITE.
- PERMANENT DETENTION/RETENTION PONDS, PIPES, TANKS OR VAULTS MAY ONLY BE USED FOR SEDIMENT CONTAINMENT WHEN SPECIFICALLY INDICATED ON THESE PLANS.

**TEMPORARY & PERMANENT HYDROSEEDING**

- ALL AREAS CLEARED OR OTHERWISE DISTURBED SHALL BE APPROPRIATELY STABILIZED IN ACCORDANCE WITH THE NOTES & DETAILS SPECIFIED HEREWITH, AND THE TIMES SPECIFIED BY SECTION 8-DI.3 OF THE CURRENT EDITION OF THE W.S.D.O.T. STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- PERMANENT HYDROSEEDING - IN AREAS NOT INCLUDED WITHIN THE PROJECT BOUNDARY OR NOT INCLUDED IN THE PROPOSED LANDSCAPE PLAN SHALL ADHERE TO THE FOLLOWING SPECS:  
 MINIMUM 80 LBS./ACRE MIXTURE OF:  
 15% KENTUCKY BLUEGRASS  
 40% TALL FESCUE  
 30% PERENNIAL RYE  
 15% CHEWINGS FESCUE  
 FERTILIZER - 400 LBS./ACRE OF 10-20-20  
 MULCH - 2000 LBS./ACRE
- TEMPORARY HYDROSEEDING - IN ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL RECEIVE PERMANENT LANDSCAPING SHALL BE SEEDED WITH ANNUAL RYE GRASS AS REQUIRED TO PRODUCE A SUITABLE TEMPORARY GROUND COVER.

**DRAINAGE NOTES**

- THE CONTRACTOR SHALL ENSURE THAT THE DRAINAGE IS INSTALLED AND OPERATIONAL PRIOR TO COMMENCEMENT OF PAVING WORK.
- ALL STEEL PIPE AND PARTS SHALL BE GALVANIZED. ALL SUBMERGED STEEL PIPES AND PARTS SHALL BE GALVANIZED AND HAVE ASPHALT TREATMENT #1 OR BETTER.
- IN THE EVENT ASBESTOS CEMENT PIPE IS ENCOUNTERED, THE CONTRACTOR SHALL PROVIDE PROTECTIVE CLOTHING AND EQUIPMENT TO CREWS WORKING WITH ASBESTOS CEMENT PIPE IN ORDER TO ENSURE WORKERS EXPOSURE TO ASBESTOS MATERIALS IS AT OR BELOW THE LIMIT PRESCRIBED IN WAC 296-62-07705.

**MINIMUM EROSION AND SEDIMENTATION CONTROL REQUIREMENTS**

- STABILIZATION AND SEDIMENT TRAPPING.** ALL EXPOSED AND UNWORKED SOILS, INCLUDING SOIL STOCKPILES, SHALL BE STABILIZED BY SUITABLE APPLICATION OF BMP'S WHICH PROTECT SOIL FROM THE EROSION FORCES OF RAINDROP IMPACT AND FLOWING WATER. APPLICABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO VEGETATIVE ESTABLISHMENT, MULCHING, PLASTIC COVERING, AND THE EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED. FROM OCTOBER 1 TO APRIL 30, NO SOILS SHALL REMAIN UNSTABILIZED FOR MORE THAN 2 DAYS, FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN UNSTABILIZED FOR MORE THAN 7 DAYS.
- AT ALL TIMES OF THE YEAR, THE CONTRACTOR SHALL HAVE SUFFICIENT MATERIALS, EQUIPMENT AND LABOR ON-SITE TO STABILIZE AND PREVENT EROSION FROM ALL DENUDE AREAS WITHIN 12-HOURS AS SITE AND WEATHER CONDITIONS DICTATE.
- FROM OCTOBER 1ST TO APRIL 30TH, THE PROJECT ENGINEER SHALL VISIT THE DEVELOPMENT SITE A MINIMUM OF ONCE PER WEEK FOR THE PURPOSE OF INSPECTING THE EROSION AND SEDIMENTATION CONTROL FACILITIES, REVIEWING THE PROGRESS OF CONSTRUCTION, AND VERIFYING THE EFFECTIVENESS OF THE EROSION CONTROL MEASURES BEING UNDERTAKEN. THE PROJECT ENGINEER SHALL IMMEDIATELY INFORM THE CITY DIRECTOR OF PUBLIC WORKS & WSDOT (IF REQUIRED) OF ANY PROBLEMS OBSERVED DURING SAID SITE VISITS, AS WELL AS OF ANY RECOMMENDED CHANGES IN THE EROSION CONTROL MEASURES TO BE UNDERTAKEN. WHEN REQUESTED BY THE CITY OR WSDOT THE PROJECT ENGINEER SHALL PROVIDE THE CITY OR WSDOT WITH WRITTEN RECORDS OF SAID WEEKLY SITE VISITS, INCLUDING DATES OF VISITS AND NOTED SITE OBSERVATIONS.
- IN THE EVENT THAT THE GROUND ON A PROJECT SITE IS LEFT BARE AFTER SEPTEMBER 30TH, THE CITY OR STATE MAY ISSUE A STOP WORK ORDER FOR THE ENTIRE PROJECT UNTIL SATISFACTORY CONTROLS ARE PROVIDED. IN ADDITION, THE CITY OF PORT ORCHARD WILL BE SUBJECT TO THE PENALTIES PROVIDED IN CITY OF PORT ORCHARD STORMWATER ORDINANCE AND APPLICABLE STATE REGULATIONS.
- IN THE EVENT THAT GROUND ON A PROJECT SITE IS LEFT BARE AFTER SEPTEMBER 30TH, AND THE CITY OR STATE IS UNSUCCESSFUL IN CONTACTING THE CITY OF PORT ORCHARD OR HIS/HER DESIGNATED EMERGENCY CONTACT PERSON, THE CITY OR STATE MAY ENTER THE PROJECT SITE AND INSTALL TEMPORARY GROUND COVER MEASURES AND BILL THE OWNER FOR ALL EXPENSES INCURRED BY THE CITY OR STATE. THESE COSTS WILL BE IN ADDITION TO ANY MONETARY PENALTIES LEVIED AGAINST THE OWNER.
- DELINEATION OF CLEARING AND EASEMENT LIMITS.** CLEARING LIMITS, STEEP SLOPES, BUFFERS AND SENSITIVE OR CRITICAL AREAS SUCH AS STEEP SLOPES, WETLANDS AND RIPARIAN CORRIDORS SHALL BE CLEARLY MARKED IN THE FIELD AND INSPECTED BY THE CITY OF PORT ORCHARD AND WSDOT PRIOR TO COMMENCEMENT OF LAND CLEARING ACTIVITIES.
- PROTECTION OF ADJACENT PROPERTIES.** ADJACENT PROPERTIES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION BY APPROPRIATE USE OF VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES OR MULCHING, OR BY A COMBINATION OF THESE MEASURES AND OTHER APPROPRIATE BMP'S.
- TIMING AND STABILIZATION OF SEDIMENT TRAPPING MEASURES.** SEDIMENT PONDS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER BMP'S INTENDED TO TRAP SEDIMENT ON-SITE SHALL BE CONSTRUCTED AS A FIRST STEP IN GRADING. THESE BMP'S SHALL BE FUNCTIONAL BEFORE ANY DISTURBING ACTIVITIES TAKE PLACE. EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS SHALL BE STABILIZED ACCORDING TO THE TIMING INDICATED IN ITEM (1) ABOVE.
- SLOPE STABILIZATION, CUT AND FILL SLOPES SHALL BE CONSTRUCTED** IN A MANNER THAT WILL MINIMIZE EROSION. ROUGHENED SOIL SURFACES ARE PREFERRED TO SMOOTH SURFACES. INTERCEPTORS SHOULD BE CONSTRUCTED AT THE TOP OF LONG, STEEP SLOPES WHICH HAVE SIGNIFICANT AREAS ABOVE THAT CONTRIBUTE RUNOFF. CONCENTRATED RUNOFF SHOULD NOT BE ALLOWED TO FLOW DOWN THE FACE OF A CUT OR FILL SLOPE UNLESS CONTAINED WITHIN AN ADEQUATE CHANNEL OR PIPE SLOPE DRAIN. WHEREVER A SLOPE CROSSES A WATER SEEPAGE PLANE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHOULD BE PROVIDED. IN ADDITION, SLOPES SHOULD BE STABILIZED IN ACCORDANCE WITH ITEM (1) ABOVE.
- CONTROLLING OFF-SITE EROSION.** PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM EROSION DUE TO INCREASES IN THE VOLUME, VELOCITY, AND PEAK FLOW RATE OF STORMWATER RUNOFF FROM THE DEVELOPMENT SITE BY THE IMPLEMENTATION OF APPROPRIATE BMP'S TO MINIMIZE ADVERSE DOWNSTREAM IMPACTS.

**CONSTRUCTION SEQUENCE**

- APPLY FOR AND PICK UP ANY REQUIRED ROAD APPROACH, OR RIGHT OF WAY PERMITS FROM THE CITY OF PORT ORCHARD.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE(S).
- CONSTRUCT FILTER FENCE BARRIERS.
- CONSTRUCT SEDIMENTATION BASINS.
- CONSTRUCT RUNOFF INTERCEPTION AND DIVERSION DITCHES.
- CLEAR AND GRADE THE MINIMUM SITE AREA REQUIRED FOR CONSTRUCTION OF THE VARIOUS PHASES OF WORK.
- PROVIDE TEMPORARY HYDROSEEDING OR OTHER SOURCE CONTROL STABILIZATION MEASURES ON ALL DISTURBED SOILS.
- MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL FACILITIES TO PROVIDE THE REQUIRED PROTECTION OF DOWNSTREAM WATER QUALITY.
- PROVIDE PERMANENT SITE STABILIZATION.
- EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL NOT BE REMOVED UNTIL CONSTRUCTION IS COMPLETE AND ACCEPTED BY THE CITY OF PORT ORCHARD.

- STABILIZATION OF TEMPORARY CONVEYANCE CHANNELS AND OUTLETS.** ALL TEMPORARY ON-SITE CONVEYANCE CHANNELS SHALL BE DESIGNED, CONSTRUCTED AND STABILIZED TO PREVENT EROSION FROM THE EXPECTED FLOW VELOCITY FROM A 2-YR FREQUENCY, 24-HOUR DURATION STORM FOR THE POST-DEVELOPMENTAL CONDITION. STABILIZATION ADEQUATE TO PREVENT EROSION OF OUTLETS, ADJACENT STREAM BANKS, SLOPES AND DOWNSTREAM REACHES SHALL BE PROVIDED AT THE OUTLETS OF ALL CONVEYANCE SYSTEMS.
- STORM DRAIN INLET PROTECTION.** ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT STORMWATER RUNOFF SHALL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT. AFTER PROPER WRITTEN APPLICATION, THE REQUIREMENT FOR INLET PROTECTION MAY BE WAIVED BY THE CITY ON A SITE-SPECIFIC BASIS WHEN THE CONVEYANCE SYSTEM DOWNSTREAM OF THE INLET DISCHARGES TO AN APPROPRIATE SEDIMENT CONTAINMENT BMP AND THE CONVEYANCE SYSTEM CAN BE ADEQUATELY CLEANED FOLLOWING SITE STABILIZATION.
- UNDERGROUND UTILITY CONSTRUCTION.** THE CONSTRUCTION OF UNDERGROUND UTILITY LINES SHALL BE LIMITED, WHERE FEASIBLE, TO NO MORE THAN 500 FEET OF OPEN TRENCH AT ANY ONE TIME, WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH. DEWATERING DEVICES SHALL DISCHARGE TO AN APPROPRIATE SEDIMENT TRAP OR POND, PRECEDED BY ADEQUATE ENERGY DISSIPATION, PRIOR TO RUNOFF LEAVING THE SITE.
- CONSTRUCTED ACCESS ROUTES.** WHEREVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED ROADS, PROVISIONS MUST BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT (MUD) ONTO THE PAVED ROAD BY USE OF APPROPRIATE BMP'S SUCH AS STABILIZED CONSTRUCTION ENTRANCE. IF SEDIMENT IS TRANSPORTED ONTO A ROAD SURFACE, THE ROADS SHALL BE CLEANED THOROUGHLY, AS A MINIMUM, AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR SWEEPING AND BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
- REMOVAL OF TEMPORARY BMP'S.** ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMP'S SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON-SITE. DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY BMP'S SHALL BE PERMANENTLY STABILIZED.
- DEWATERING CONSTRUCTION SITES.** DEWATERING DEVICES SHALL DISCHARGE INTO AN APPROPRIATE SEDIMENT TRAP OR POND, DESIGNED TO ACCEPT SUCH A DISCHARGE, PRECEDED BY ADEQUATE ENERGY DISSIPATION, PRIOR TO RUNOFF LEAVING THE SITE.
- CONTROL OF POLLUTANTS OTHER THAN SEDIMENT ON CONSTRUCTION SITES.** ALL POLLUTANTS OTHER THAN SEDIMENTS THAT OCCUR ON-SITE DURING CONSTRUCTION SHALL BE HANDLED AND LEGALLY DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORM OR SURFACE WATERS. POLLUTANTS OF CONCERN INCLUDE, BUT ARE NOT LIMITED TO, FUELS, LUBRICANTS, SOLVENTS, CONCRETE BYPRODUCTS AND CONSTRUCTION MATERIALS.
- MAINTENANCE.** ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMP'S SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL MAINTENANCE AND REPAIR SHALL BE CONDUCTED IN ACCORDANCE WITH KITSAP COUNTY STORMWATER DESIGN MANUAL CHAPTER 3. THE APPLICANT SHALL BE RESPONSIBLE FOR ASSURING THAT ANY SUCH FACILITIES DAMAGED DURING FLOODS, STORMS OR OTHER ADVERSE WEATHER CONDITIONS ARE IMMEDIATELY RETURNED TO NORMAL OPERATING CONDITION.
- FINANCIAL LIABILITY.** A PERFORMANCE COVENANT OR PERFORMANCE SURETY SHALL BE REQUIRED FOR ALL PROJECTS TO ENSURE COMPLIANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, AS OUTLINED IN SECTION 4.D OF THE CITY OF PORT ORCHARD STORMWATER ORDINANCE.

**GENERAL NOTES**

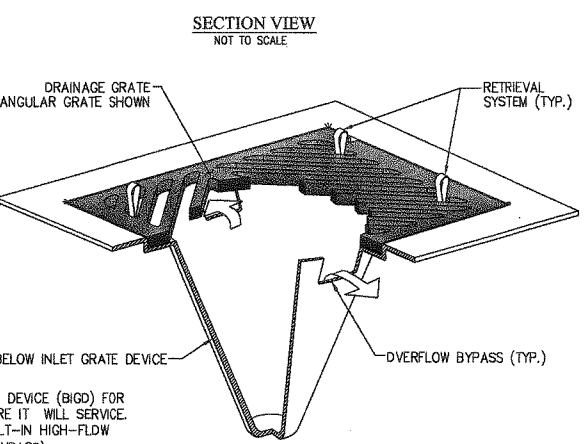
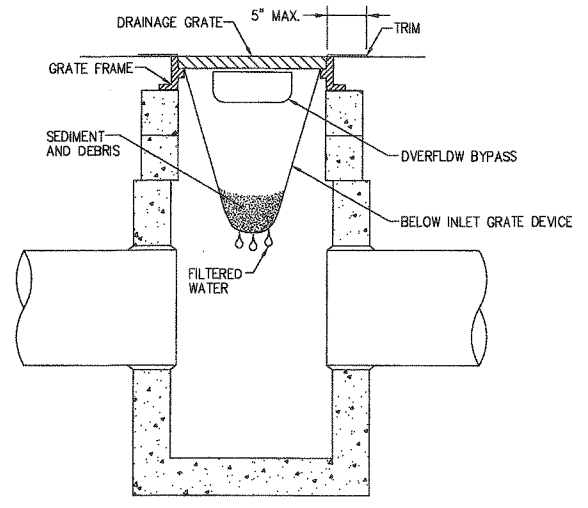
- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE MOST CURRENT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION PREPARED BY WSDOT, APWA AND AS ADOPTED BY THE CITY OF PORT ORCHARD.
- ANY REVISIONS TO THE ACCEPTED CONSTRUCTION PLANS SHALL BE REVIEWED AND APPROVED BY THE CITY AND/OR WSDOT PRIOR TO IMPLEMENTATION IN THE FIELD.
- THE CONTRACTOR SHALL MAINTAIN A SET OF ACCEPTED CONSTRUCTION DRAWINGS ON SITE AT ALL TIMES WHILE CONSTRUCTION IS IN PROGRESS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS (IF APPLICABLE) FROM WSDOT OR THE CITY PRIOR TO COMMENCING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE TRAFFIC CONTROL AT ALL TIMES DURING CONSTRUCTION ALONGSIDE DR WITHIN ALL PUBLIC ROADWAYS. TRAFFIC FLOW ON EXISTING PUBLIC ROADWAYS SHALL BE MAINTAINED AT ALL TIMES, UNLESS PERMISSION IS OBTAINED FROM THE CITY FOR ROAD CLOSURE AND/OR DETOURS.
- THE LOCATIONS OF EXISTING UTILITIES ON THIS PLAN IS APPROXIMATE ONLY. THE CONTRACTOR SHALL CONTACT THE "UNDERGROUND LOCATE" CENTER AT PH: 1-800-424-5555, AND NON-SUBSCRIBING INDIVIDUAL UTILITY COMPANIES 48 HOURS IN ADVANCE OF THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL PROVIDE PROTECTION OF EXISTING UTILITIES FROM DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS.
- ROCKERIES OR OTHER RETAINING STRUCTURE EXCEEDING 4 FT. IN HEIGHT REQUIRES A SEPARATE PERMIT FROM THE CITY OF PORT ORCHARD BUILDING DEPARTMENT.

**INSPECTION SCHEDULE**

- THE CONTRACTOR SHALL NOTIFY CITY OF PORT ORCHARD & WASHINGTON STATE DEPARTMENT OF TRANSPORTATION TO ARRANGE FOR INSPECTION OF THE VARIOUS PHASES OF WORK CHECKED BELOW. ALL INSPECTIONS SHALL BE COMPLETED PRIOR TO PROCEEDING WITH THE NEXT PHASE OF WORK.
  - LOCATION OF THE ROAD APPROACH
  - CLEARING LIMITS
  - IMPLEMENTATION OF THE VARIOUS PHASES OF THE EROSION AND SEDIMENTATION CONTROL PLAN
  - PLACEMENT OF DRAINAGE STRUCTURES PRIOR TO BACK FILLING, INCLUDING POND EMBANKMENTS
  - PRIOR TO PLACEMENT OF THE DETENTION OUTLET CONTROL STRUCTURE
  - INSPECTION OF PREPARED SUB-GRADE
  - INSPECTION OF GRAVEL BASE PLACEMENT
  - INSPECTION OF CRUSHED SURFACING PLACEMENT
  - INSPECTION OF FINE-GRADING PRIOR TO PAVING
  - INSPECTION OF PAVING OPERATIONS
  - FINAL INSPECTION
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK PERFORMED AND SHALL ENSURE THAT CONSTRUCTION IS ACCEPTABLE TO WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND CITY OF PORT ORCHARD.
- IF INSPECTION IS NOT CALLED FOR PRIOR TO COMPLETION OF ANY ITEM OF WORK SO DESIGNATED, SPECIAL DESTRUCTIVE AND/OR NON-DESTRUCTIVE TESTING PROCEDURES MAY BE REQUIRED TO ENSURE THE ACCEPTABILITY OF THE WORK. IF SUCH PROCEDURES ARE REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE TESTING AND/OR RESTORATION OF THE WORK.

**T. E. S. C. MAINTENANCE REQUIREMENTS**

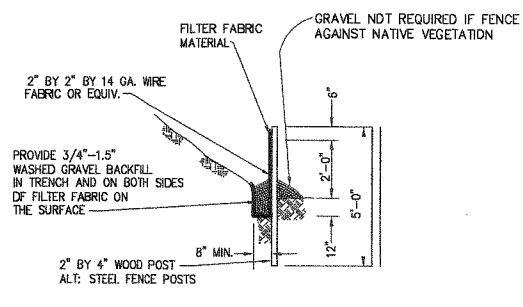
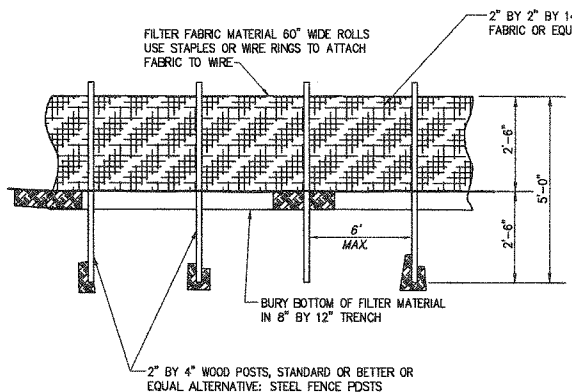
- EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL BE INSPECTED AFTER EACH STORM EVENT AND DAILY DURING PROLONGED RAINFALL.
- NECESSARY REPAIRS OR REPLACEMENT OF FACILITIES SHALL BE ACCOMPLISHED WITHIN 24 HOURS.
- SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT OR WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF OF THE MAXIMUM POTENTIAL DEPTH.
- SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE ESC FACILITIES ARE NO LONGER REQUIRED SHALL BE GRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
- TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL BE MAINTAINED BY:
  - TO BE DETERMINED AT PRECONSTRUCTION MEETING
  - EMERGENCY PHONE NUMBER
  - THE OWNER'S REPRESENTATIVE SHALL BE:
  - TO BE DETERMINED AT PRECONSTRUCTION MEETING
  - EMERGENCY PHONE NUMBER



**NOTES:**

- SIZE THE BELOW INLET GRATE DEVICE (BIGD) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
- THE BIGD SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (DRAINAGE BYPASS).
- THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BIGD WITHOUT SPILLING THE COLLECTED MATERIAL.
- PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION 8-DI.3(15).

**STORM DRAIN INLET PROTECTION DETAIL**  
NOT TO SCALE



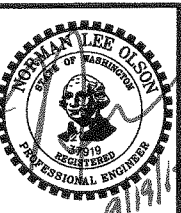
**SILT FENCE**

NOT TO SCALE  
(BMP E3.10)  
SEE WSDOT STD PLAN 1-30.10-00

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**TESC NOTES AND DETAILS**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: AS SHOWN  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407242**  
SHEET C8.4

# GENERAL STRUCTURAL NOTES

## BUILDING CODE:

2009 EDITION OF THE INTERNATIONAL BUILDING CODE, AS AMENDED BY CITY OF PORT ORCHARD AND THE 2012 WSDOT STANDARD SPECIFICATIONS.

ALL GRAVITY LOADS RESISTING AND LATERAL LOAD RESISTING STRUCTURAL MEMBERS ARE SHOWN ON THE ENGINEERING'S PAGES. THE ENGINEERING CALCULATIONS ARE NOT REQUIRED TO BE REFERENCED FOR CONSTRUCTION, AND DON'T NEED TO BE ONSITE.

CONTRACTOR SHALL VERIFY ALL NOTES, DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AS REQUIRED UNTIL ALL PERMANENT CONNECTIONS HAVE BEEN INSTALLED. ENGINEER AND DESIGNER SHALL BE NOTIFIED BY THE CONTRACTOR OF ANY DISCREPANCIES AT THE TIME THEY ARE NOTED.

CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITY LINES. CALL 1-800-424-5555 48 HOURS BEFORE DIGGING.

INFORM ENGINEER OF ALL CHANGES PROPOSED ON THE DRAWINGS OR SPECIFICATIONS PRIOR TO CONSTRUCTION OF THE CHANGE.

CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, SAFETY OF THE WORKERS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND FOR COORDINATING ALL PORTIONS OF THE WORK.

DRAWINGS SHALL BE USED FOR ONLY ONE CONSTRUCTION AND FOR LOCATIONS INDICATED HEREIN.

## LOADS:

GROUND SNOW LOAD = 30 PSF  
 FLOOR LIVE LOAD = 100 PSF.  
 WIND LOAD = 85 MPH BASIC WIND SPEED, EXPOSURE B.  
 SEISMIC DESIGN CATEGORY O<sub>2</sub>

## FOUNDATIONS:

ALL FOOTINGS SHALL BEAR ON FIRM, UNOBTURBED SOIL OR APPROVED FILL 12" MINIMUM BELOW FINISHED GRADE. FINISHED GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE EXTENDING UP TO 5 FEET FROM WALL FOR PERIMETER FOOTINGS. DESIGN SOIL BEARING VALUE = 1,500 PSF.

WHERE REQUIRED BY THE BUILDING OFFICIAL, THE CLASSIFICATION AND INVESTIGATION OF THE SOIL SHALL BE PERFORMED BY A REGISTERED DESIGN PROFESSIONAL (1806.2) UNLESS A SOIL INVESTIGATION IS PROVIDED. FOUNDATION DESIGN IS BASED ON AN ASSUMED AVERAGE SOIL BEARING OF 1500 PSF. ORGANIC SILT, ORGANIC CLAYS, PEAT OR UNPREPARED FILL SHALL NOT BE ASSUMED TO HAVE A BEARING CAPACITY (1806.2).

THIS ENGINEERING IS BASED ON SITE CLASS O SOILS IN ACCORDANCE WITH TABLE 1613.5.2 OF THE 2009 IBC.

SITE GRADING: THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN 5 PERCENT FOR A MINIMUM OF 10 FEET (1804.3).

COMPACTED FILL MATERIAL SHALL NOT BE USED UNLESS ALLOWED BY A SOILS ENGINEERING REPORT (1803.5.8).

## CONCRETE:

MINIMUM 28 DAY STRENGTH 4,000 PSI ( $f_c = 4,000$  PSI), UNLESS OTHERWISE NOTED.

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO A.C.I. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATE ONLY AT TRENCHES, FLOOR DUCTS, TURNINGS, ETC. MINIMUM SLUMP 4-1/2" FOR CONCRETE WITHOUT PLASTICIZER. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL. UNLESS APPROVED OTHERWISE IN WRITING BY THE ENGINEER, ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONTROL JOINTS (KEYED OR SAW CUT), AS SHOWN ON THE FOUNDATION PLAN, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 225 SQUARE FEET. KEYED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING, ALL OTHER JOINTS MAY BE SAW CUT.

FLY ASH SHALL BE LIMITED TO 18% OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.

## STRUCTURAL STEEL:

STRUCTURAL WOE FLANGE SHAPES ARE TO BE ASTM A992 GRADE 50 ( $F_y=50$  KSI). STRUCTURAL PIPE IS TO BE ASTM A53 GRADE B ( $F_y=35$  KSI). ALL OTHER STRUCTURAL STEEL SHALL MEET ASTM A36 ( $F_y=36$  KSI).

## WELDING

WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1 AND APPROVED BY THE ENGINEER OF RECORD. WELD FILLER FOR THIS PROJECT MUST MEET REQUIREMENTS FOR AN ORDINARY MOMENT FRAME CONSTRUCTION INCLUDING THE FOLLOWING:

- 1) WELD FILLER SHALL BE E70XX ( $F_y=70$  KSI).
- 2) WELD FILLER SHALL MEET CHARPY V-NOTCH TOUGHNESS OF 2D FT-LB AT D' F.

## GROUT

ALL GROUT SHALL BE 5,000 PSI COMPRESSIVE STRENGTH (MINIMUM) AND NON-SHRINK.

## REINFORCING:

REINFORCING STEEL SHALL BE ASTM A615 ( $F_y = 60$  KSI) DEFORMED BARS. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE BY THE STRUCTURAL ENGINEER. LATEST A.C.I. CODE AND DETAILING MANUAL SPECIFICATIONS APPLY. CLEAR CONCRETE COVERAGES ARE AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
EXPOSED TO EARTH OR WEATHER	
#6 OR LARGER	2"
#5 AND SMALLER	1 1/2"
ALL OTHER PER LATEST EDITION OF ACI 318.	

## LAP SCHEDULE FOR REINFORCING STEEL

1. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
2. UNLESS NOTED OTHERWISE, LAP SPLICES ON CONCRETE BEAMS, SLABS, WALLS, AND FOOTINGS SHALL BE CLASS "B" TENSION LAP SPLICES.
3. CONTACT STRUCTURAL ENGINEER IF CENTER TO CENTER SPACING OF REINFORCEMENT IS LESS THAN OR EQUAL TO 3 BAR DIAMETERS ( $<3db$ ).

CLASS B TENSION SPLICE LENGTHS						
CONC. PSI	$f_c=2,500/3000$ PSI		$f_c=4,000$ PSI		$f_c=5,000$ PSI	
	REGULAR	TOP	REGULAR	TOP	REGULAR	TOP
BAR LOCATION	REGULAR	TOP	REGULAR	TOP	REGULAR	TOP
SIZE	>3db	>6db	>3db	>6db	>3db	>6db
#3	16"	16"	18"	18"	16"	16"
#4	22"	22"	28"	28"	19"	24"
#5	27"	27"	35"	35"	23"	30"
#6	35"	32"	48"	42"	31"	38"
#7	48"	38"	63"	49"	42"	54"
#8	63"	43"	82"	58"	55"	71"
#9	80"	48"	104"	83"	69"	90"
#10	102"	58"	132"	76"	88"	114"
#11	128"	71"	182"	93"	108"	140"

## CONCRETE MINIMUM REINFORCEMENT:

THE FOLLOWING MINIMUM REINFORCEMENT SHALL BE PROVIDED UNLESS NOTED OTHERWISE ON THE DRAWING.

1. PROVIDE HORIZONTAL CORNER BARS AT ALL FOOTING AND WALL CORNERS, AND HOOK BARS FOR T INTERSECTIONS WITH EQUAL SIZE AND SPACING OF THE HORIZONTAL REINFORCING USING THE INDICATED DETAILS OF SIMILAR SECTIONS AND DETAILS AS TYPICAL.
2. PROVIDE ONE #4 VERTICAL BAR - FULL HEIGHT OF WALL AT THE CORNER OR T INTERSECTION.
3. PROVIDE A MINIMUM OF 0.2% REINFORCEMENT OF GROSS CONCRETE AREA OF WALL IN HORIZONTAL DIRECTION AND 0.12% IN VERTICAL DIRECTION. MAXIMUM REBAR SPACING IS 18" O.C. IN EACH DIRECTION.
4. PROVIDE A MINIMUM #4 BARS AT 12" ON CENTER IN ISOLATED FOOTINGS.
5. PROVIDE REINFORCING CHAIRS IN ACCORDANCE WITH THE CRSI PLACING MANUAL.
6. PROVIDE WWF 6X6X10X10 FOR 4" SLAB.
7. PROVIDE CONSTRUCTION JOINT AT 2D' MAXIMUM UNLESS NOTED OTHERWISE (SAW CUT 25% OF SLAB THICKNESS).

## SPECIAL INSPECTIONS

THE FOLLOWING SPECIAL INSPECTIONS ARE REQUIRED PER CHAPTER 17 OF THE 2009 INTERNATIONAL BUILDING CODE TO BE PERFORMED BY AN INDEPENDENT THIRD PARTY INSPECTOR.

### STEEL

- 1) PERIODIC INSPECTION OF HIGH STRENGTH BOLTING.

### WELDING

- 1) PERIODIC INSPECTION OF DECK WELDS.
- 2) PERIODIC INSPECTION OF FIELD WELDING.
- 3) MATERIAL VERIFICATION OF WELD FILLER MATERIALS.

### ANCHORAGE

- 1) PERIODIC INSPECTION OF POST INSTALLED (EPOXY OR MECHANICAL) ANCHORAGE.
- 2) CONTINUOUS INSPECTION OF POST INSTALLED (EPOXY OR MECHANICAL) ANCHORAGE FOR USE WITH TENSION APPLICATIONS.

### CONCRETE

- 1) VERIFICATION OF HIGH STRENGTH ANCHORAGE PRIOR TO POUR.
- 2) VERIFICATION OF CONCRETE STRENGTH > 2500 PSI.

## HELICAL ANCHORS

- 1) PERIODIC TESTING OF TENSION APPLICATION
- 2) CONTINUOUS MONITORING OF COMPRESSION APPLICATIONS.

## POST INSTALLED ANCHORS

POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

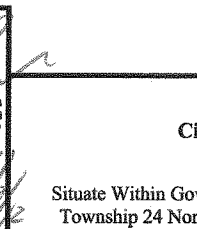
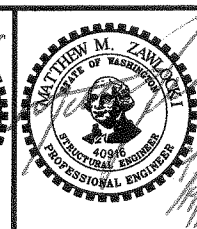
ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308. PRE-APPROVED ADHESIVE ANCHORS INCLUDE: SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)

MECHANICAL ANCHORS SHALL BE SIMPSON TITEN HO OR EQUAL.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE
NMZ	NMZ	9/12
JAT	JAT	9/12
NLOI	NLOI	9/12

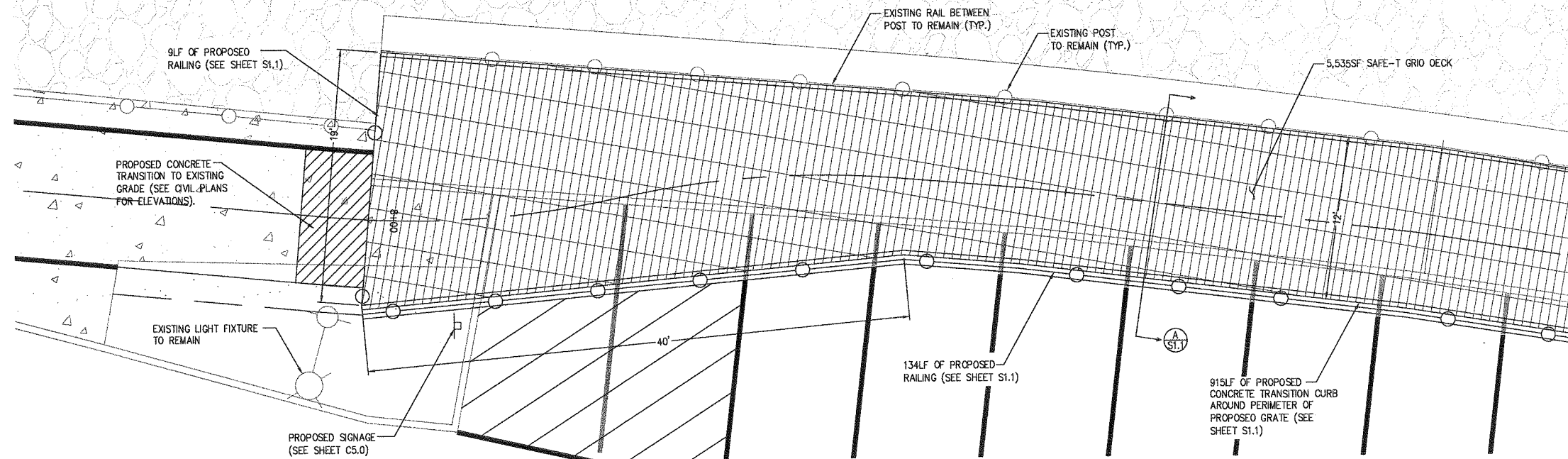
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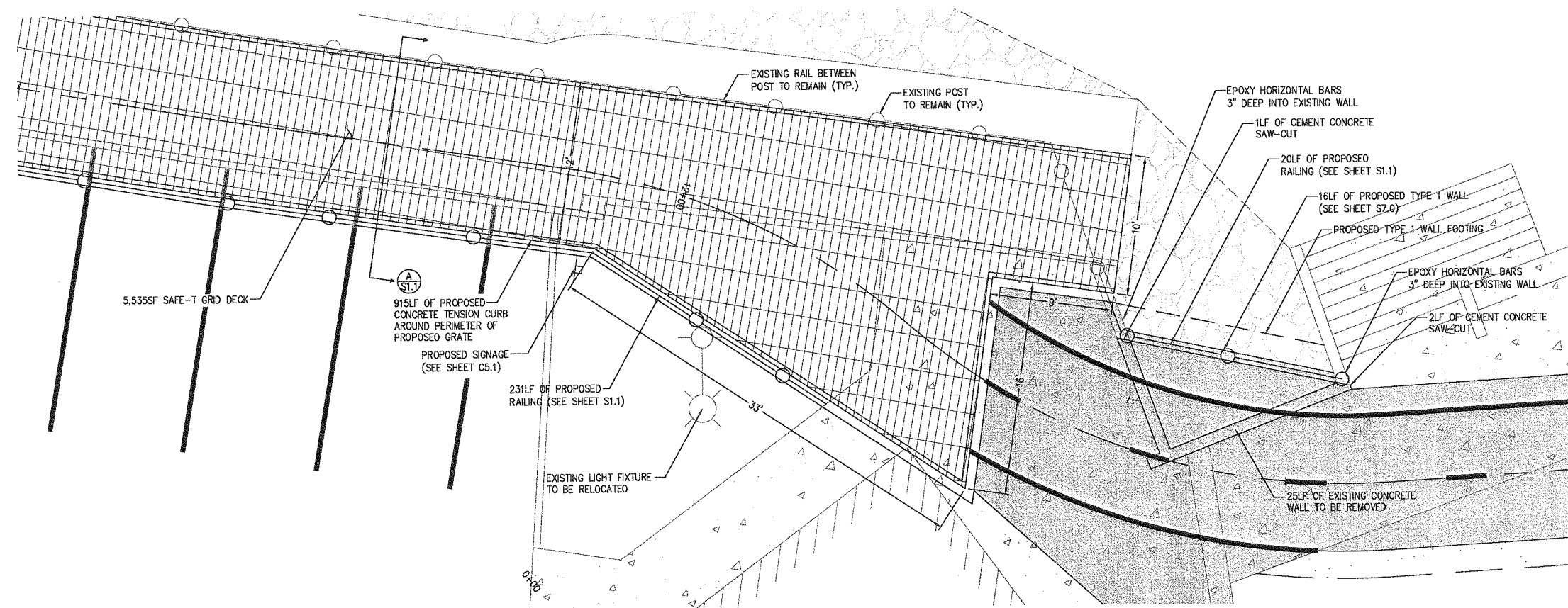
**STRUCTURAL NOTES**  
 City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: NONE
DATE: Sep. 12, 2012
DRAWING NUMBER
<b>097337-407245</b>
SHEET S0.1



**BOARDWALK DECKING PLAN STA: 7+98 TO 8+88**  
SCALE 1"=5'

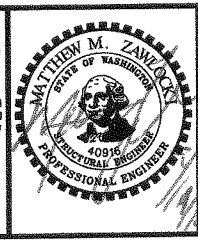
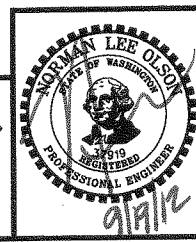


**BOARDWALK DECKING PLAN STA: 11+50 TO 12+26**  
SCALE 1"=5'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED MMZ	9/12
DRAWN JAT	9/12
CHECKED NLOI	9/12
APPROVED	
ACCEPTED	

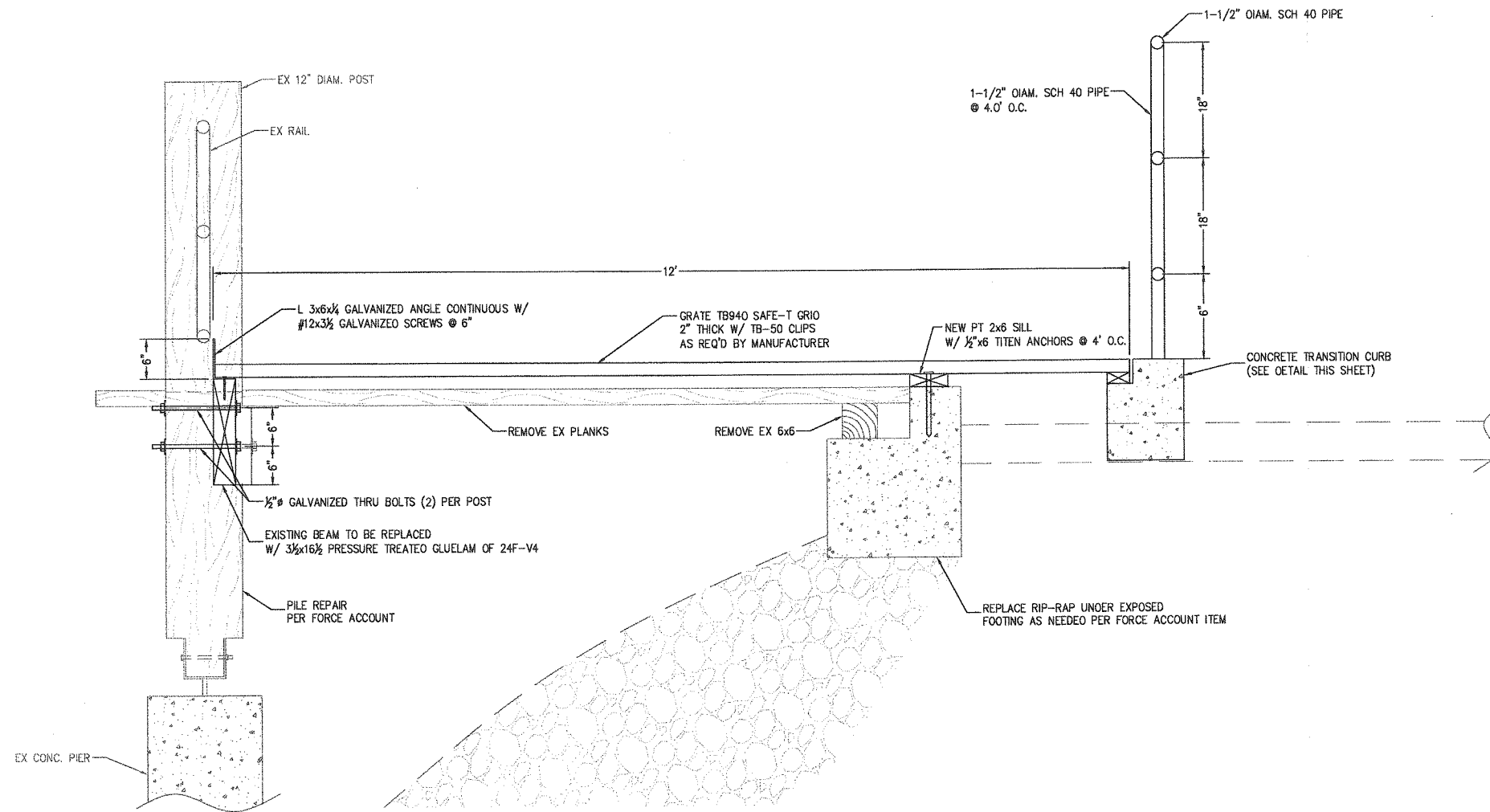
**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



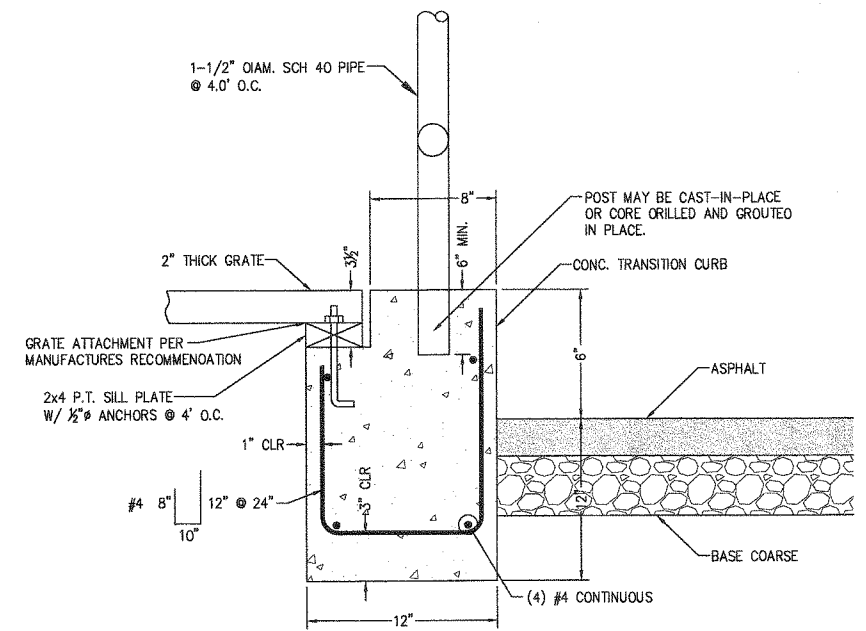
**MARINA BOARDWALK DECKING PLANS**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1"=5'  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407246**  
SHEET S1.0



**A** MARINA BOARDWALK SECTION  
**S1.1** SCALE 1"=1'

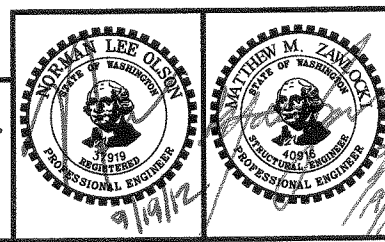


**CONCRETE TRANSITION CURB**  
 N.T.S.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE
MMZ	MMZ	9/12
JAT	JAT	9/12
NLOI	NLOI	9/12

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

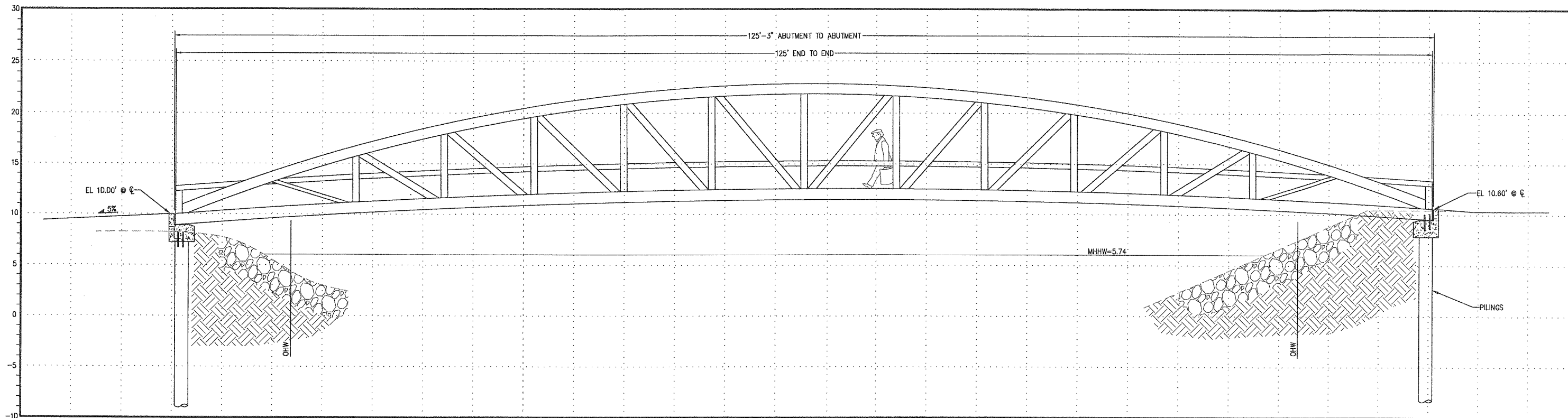


**MARINA BOARDWALK SECTION & DETAILS**  
 City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

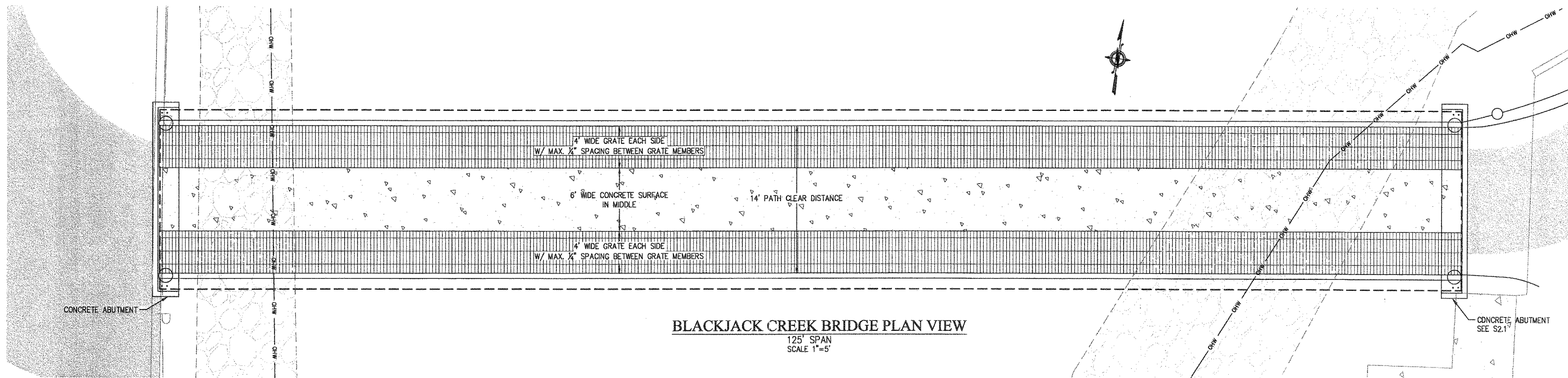
FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: AS SHOWN
DATE: Sep. 12, 2012
DRAWING NUMBER
<b>097337-407247</b>
SHEET S1.1





**BLACKJACK CREEK BRIDGE SECTION**  
 125' SPAN  
 SCALE 1"=5'

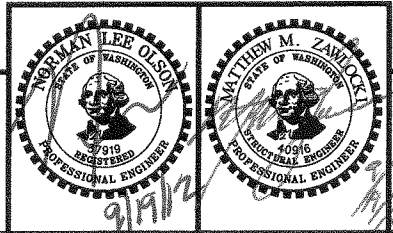


**BLACKJACK CREEK BRIDGE PLAN VIEW**  
 125' SPAN  
 SCALE 1"=5'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED MMZ	9/12
DRAWN JAT	9/12
CHECKED NLDH	9/12
APPROVED	
ACCEPTED	

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

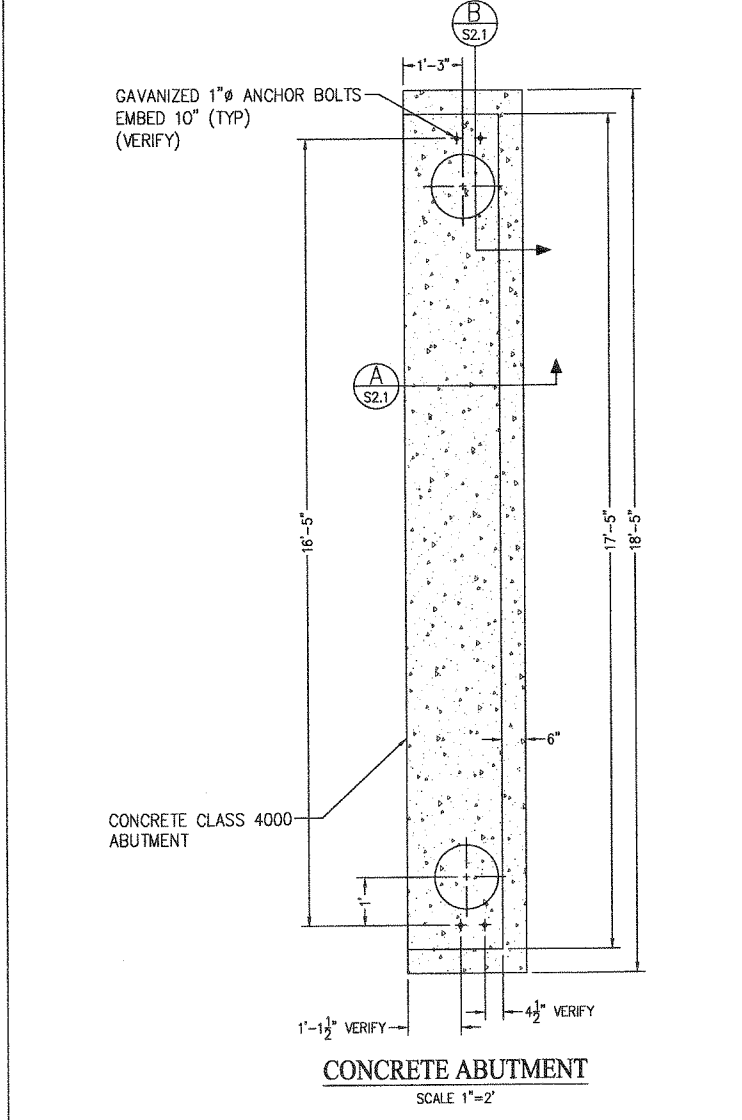
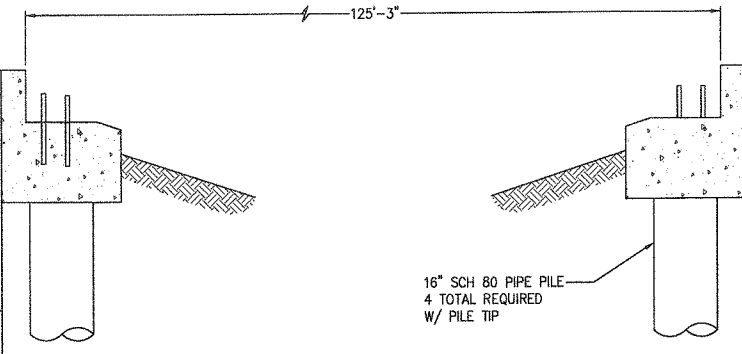


**BRIDGE SECTION AND PLAN**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
 Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

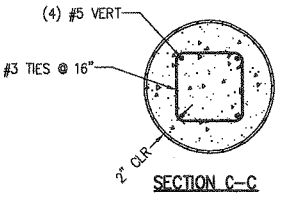
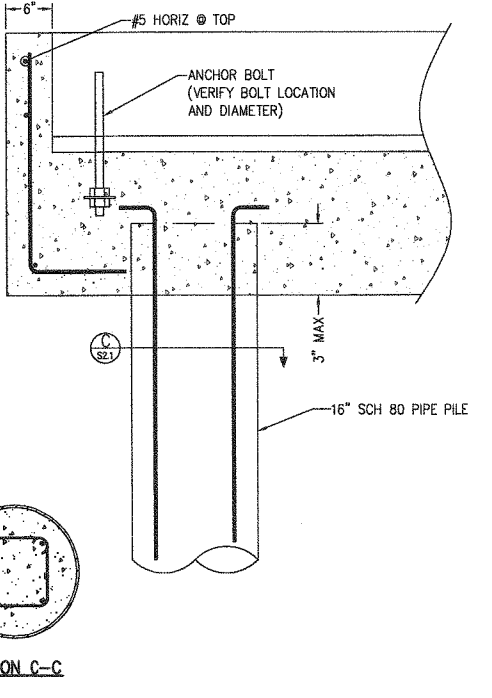
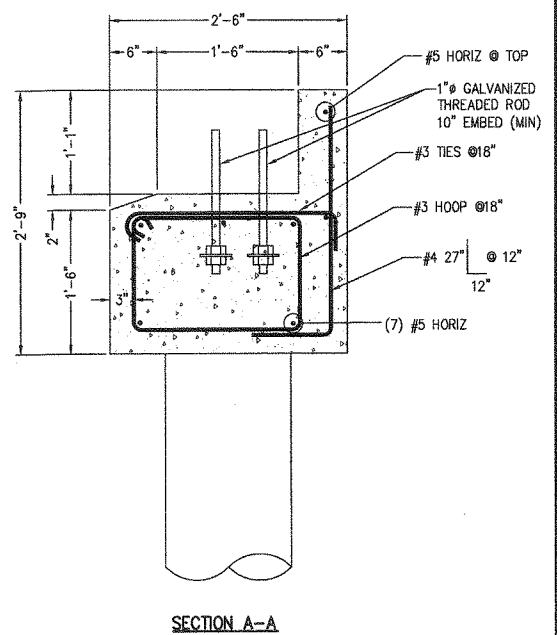
FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1" = 5'  
 DATE: Sep. 12, 2012  
 DRAWING NUMBER  
**097337-407248**  
 SHEET S2.0

General Notes	Graphic Symbol	USCS SYMBOL	Recovery (ft)	Blow per (ft) (N-Value)
Asphalt 1 3/4 inches thick				
FILL: Brown Silty SAND, loose, moist				
- Contains trace gravel				
- Contains fine to medium grained sand particles				
B1, 2.5 ft	FILL		12"	5
B1, 5.0 ft			18"	19
NATIVE: Gray Poorly Graded SAND, medium dense, wet				
- Groundwater encountered at 5 ft bgs				
- Contains fine to medium grained sand particles				
B1, 7.5 ft			4"	3
- Becomes loose				
- Sand particles become fine grained				
B1, 10.0 ft			18"	10
- Contains shell fragments at 10 ft bgs				
B1, 15.0 ft			18"	10
- Gravel content increases at 15 ft bgs				
B1, 20.0 ft			18"	8
B1, 25.0 ft			18"	14
Gray Well Graded GRAVEL with sand, medium dense, wet				
- Contains semi-angular to rounded gravel				
- Contains medium to coarse grained sand particles				
B1, 30.0 ft			18"	27
- Contains interbedding layers of Silty SAND				



General Notes	Graphic Symbol	USCS SYMBOL	Recovery (ft)	Blow per (ft) (N-Value)
Asphalt 1 3/4 inches thick				
FILL: Brownish Gray Poorly Graded SAND, loose, moist				
- Contains trace gravel				
- Contains fine to medium grained sand particles				
B1, 2.5 ft			18"	8
B1, 5.0 ft			12"	3
- Groundwater encountered at 6 ft bgs				
B1, 7.5 ft	FILL		12"	3
- Becomes fine grained and saturated				
- Silt Content increases				
B1, 10.0 ft			16"	4
- Grades to Grayish Brown				
B1, 15.0 ft			18"	14
NATIVE: Well Graded GRAVEL with sand, medium dense, wet				
- Semi-angular to rounded gravel				
- Contains medium to coarse grained sand particles				
B1, 20.0 ft			15"	9
Dark Gray Silty SAND with trace gravel, medium dense, wet				
- Contains medium grained sand particles				
B1, 25.0 ft			18"	25
Well Graded GRAVEL with sand, medium dense, wet				
- Contains medium to coarse grained sand particles				
B1, 30.0 ft			18"	42
- Contains interbedding sand layers				



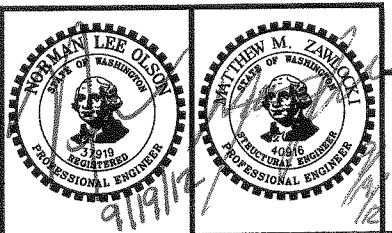
ABUTMENT DETAILS  
SCALE 1"=1'

End of boring at 31.5 ft bgs

CONCRETE ABUTMENT  
SCALE 1"=2'

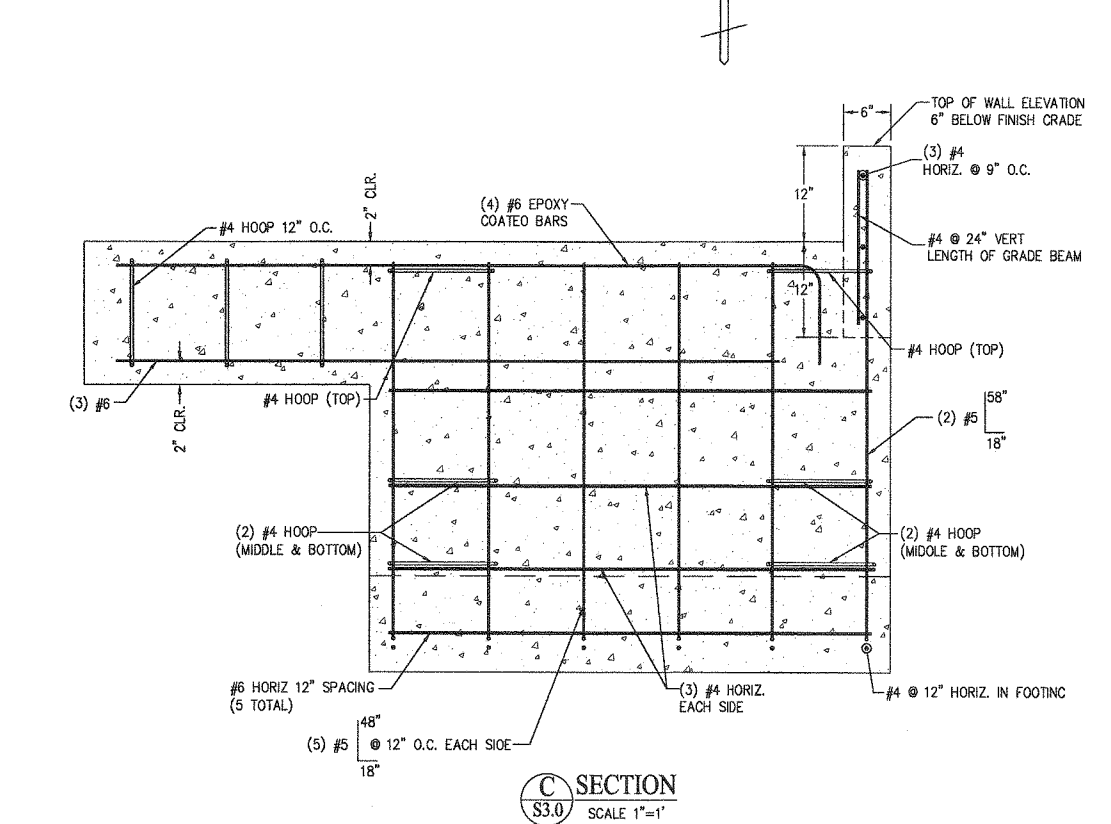
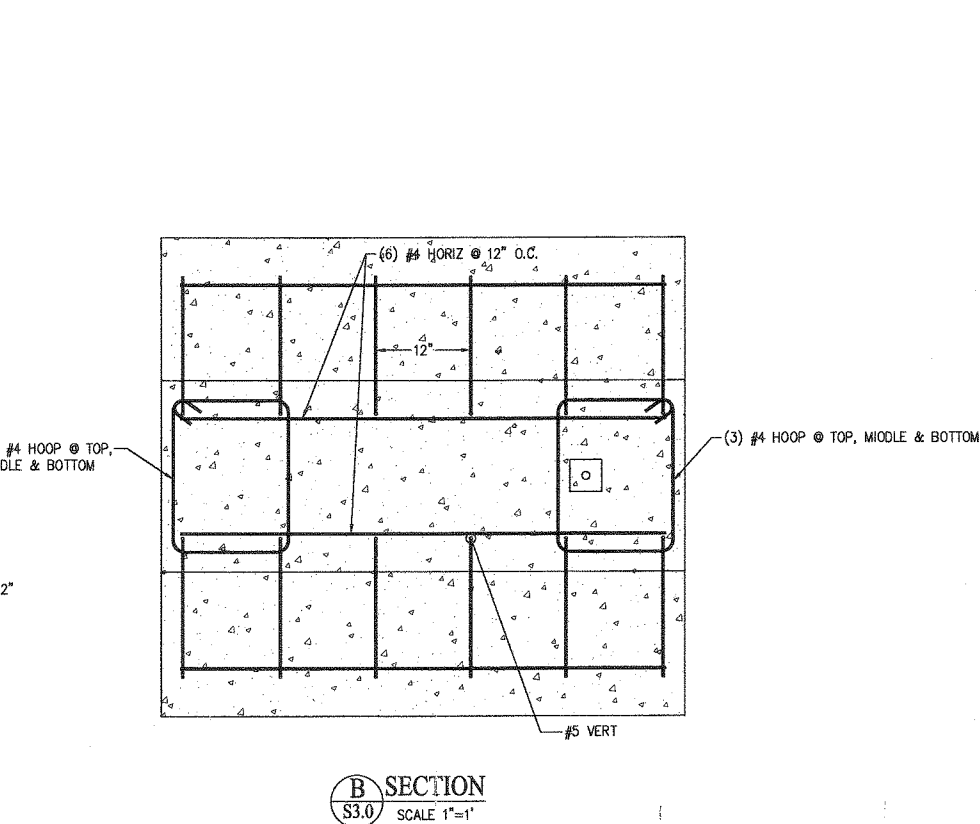
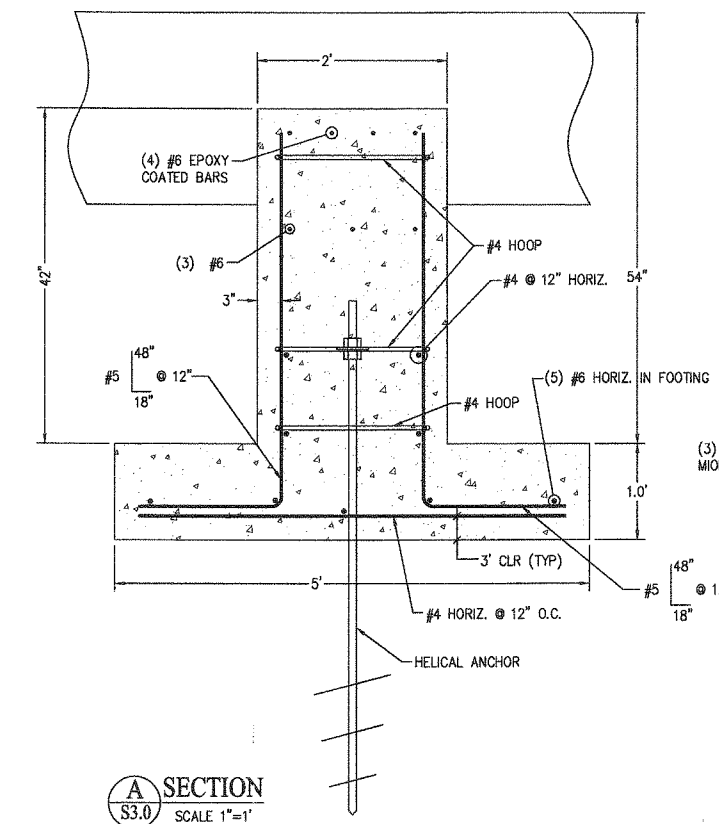
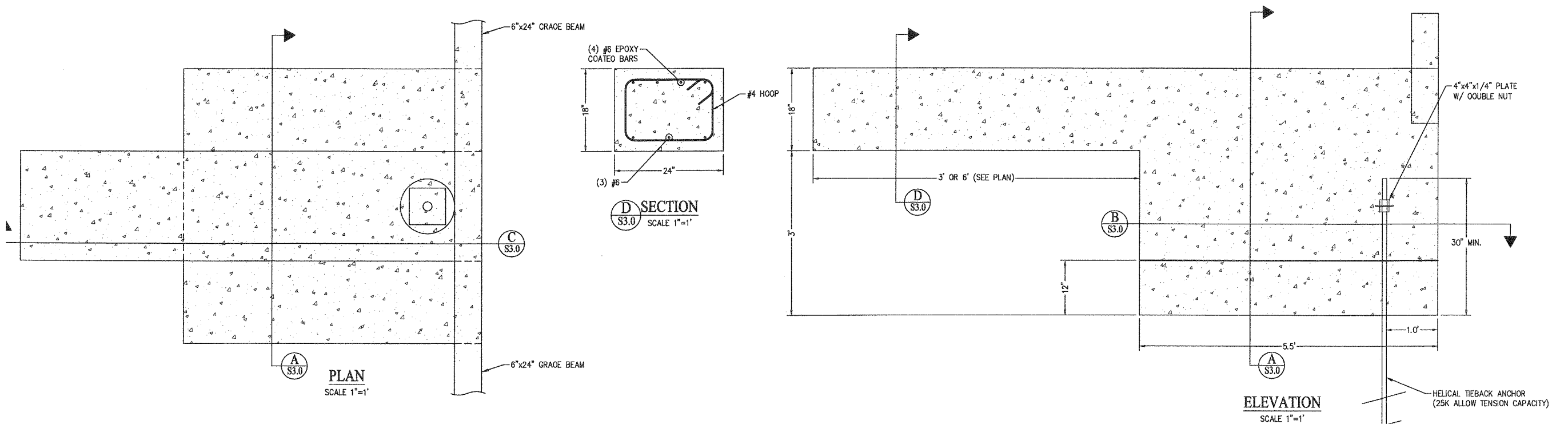
REVISIONS				BY	DATE
NO.	DATE	BY	DESCRIPTION	DESIGNED	MMZ 9/12
				DRAWN	JAT 9/12
				CHECKED	NLOI 9/12
				APPROVED	
				ACCEPTED	

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**BRIDGE FOUNDATION DETAILS**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR: **City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366  
SCALE: AS SHOWN  
DATE: Sep. 12, 2012  
DRAWING NUMBER: **097337-407249**  
SHEET: **S2.1**



**A SECTION**  
S3.0 SCALE 1"=1'

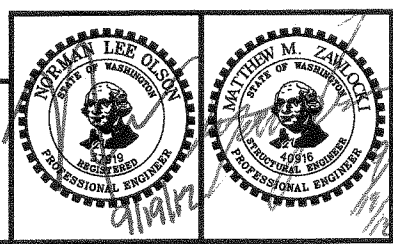
**B SECTION**  
S3.0 SCALE 1"=1'

**C SECTION**  
S3.0 SCALE 1"=1'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOH	9/12
APPROVED	
ACCEPTED	

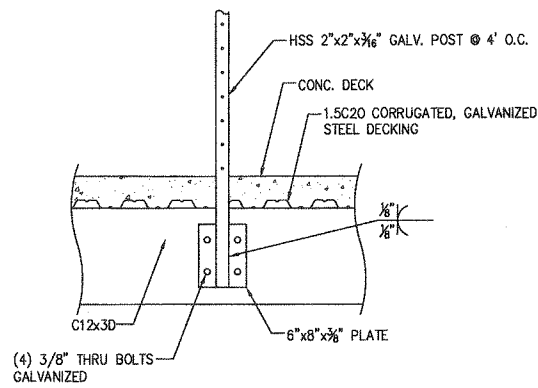
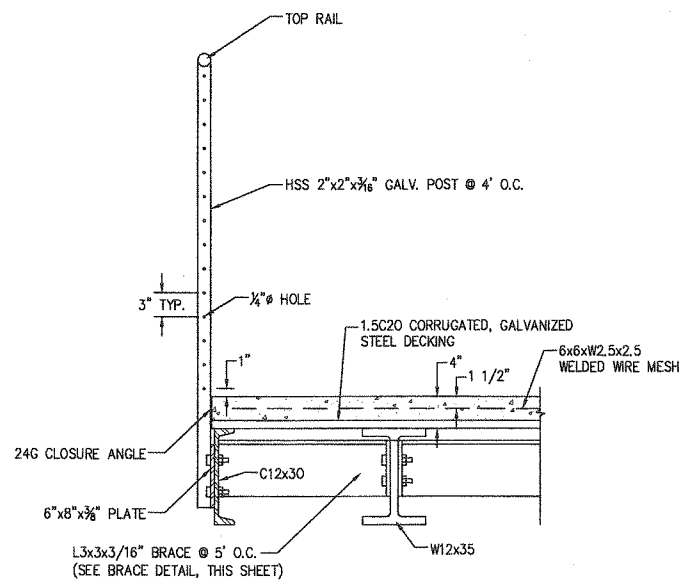
**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



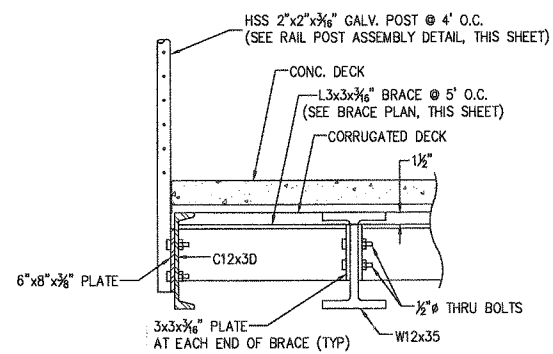
**CANTILEVER FOUNDATION DETAILS**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail  
Situate Within Gov't Lots 1, 2, 3 and 4, Section 25 and within Gov't Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

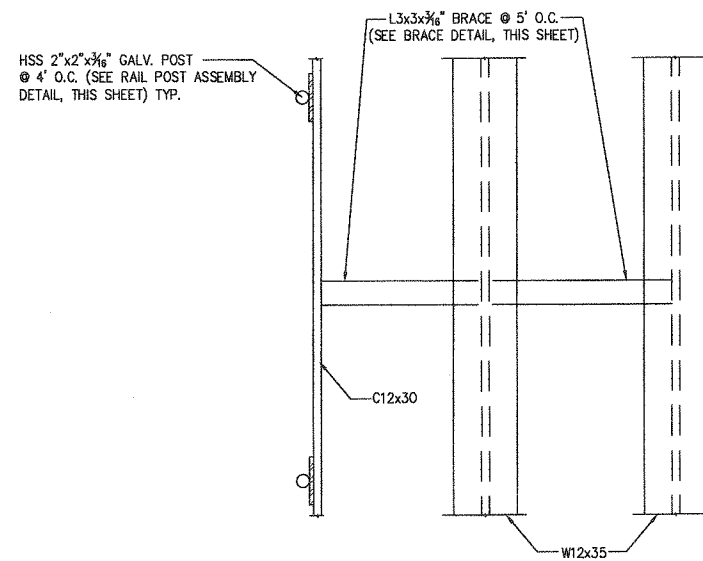
SCALE: 1"=1'
DATE: Sep. 12, 2012
DRAWING NUMBER <b>097337-407250</b>
SHEET S3.0



**RAIL POST ASSEMBLY**  
SCALE 1"=1'



**BRACE DETAIL**  
SCALE 1"=1'

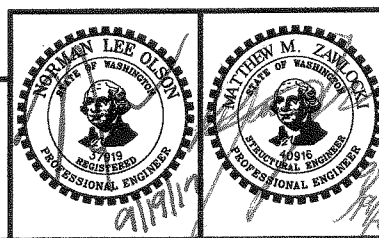


**BRACE PLAN VIEW**  
SCALE 1"=1'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE
MMZ	MMZ	9/12
JAT	JAT	9/12
NLOH	NLOH	9/12

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

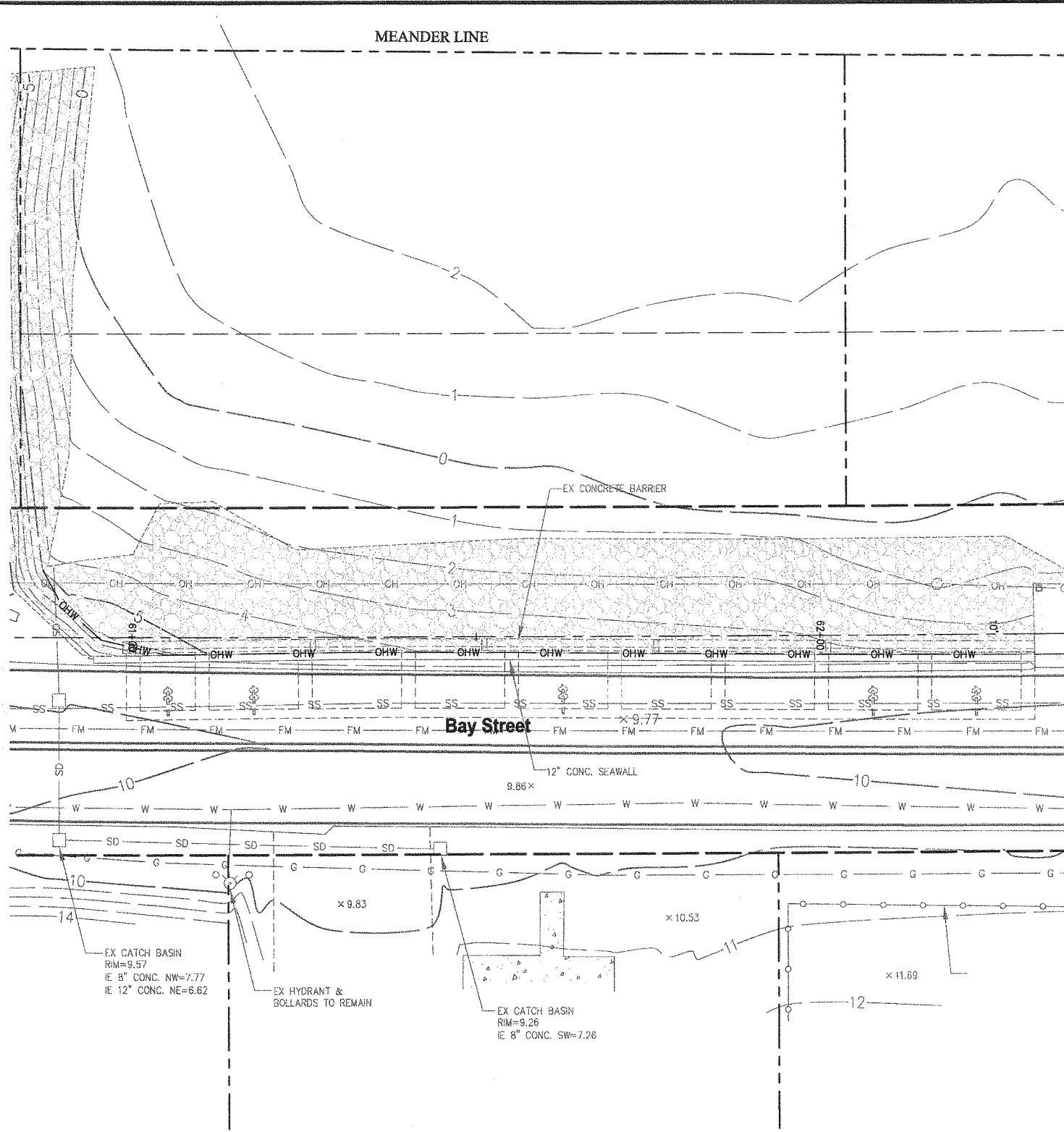


**CANTILEVER SIDEWALK FRAMING DETAILS**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

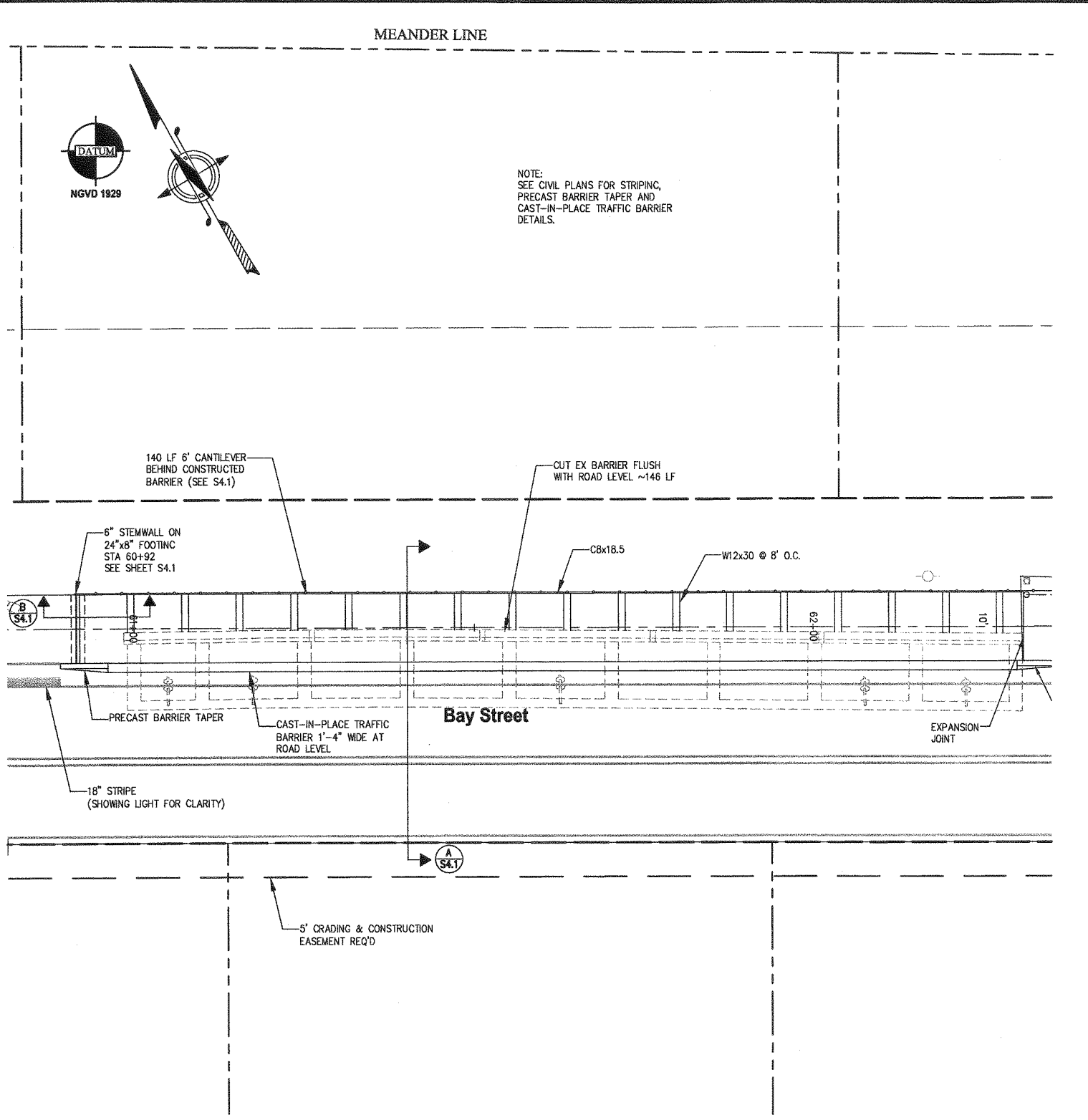
FOR: **City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1"=1'
DATE: Sep. 12, 2012
DRAWING NUMBER <b>097337-407251</b>
SHEET S3.1

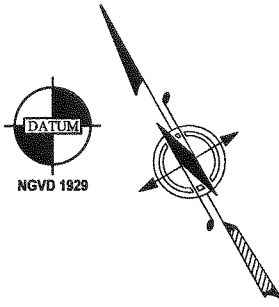




**EXISTING PLAN**



**PROPOSED PLAN**

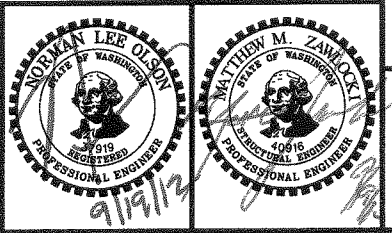


NOTE:  
SEE CIVIL PLANS FOR STRIPING,  
PRECAST BARRIER TAPER AND  
CAST-IN-PLACE TRAFFIC BARRIER  
DETAILS.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE
MMZ	MMZ	9/12
JAT	JAT	9/12
NLOII	NLOII	9/12

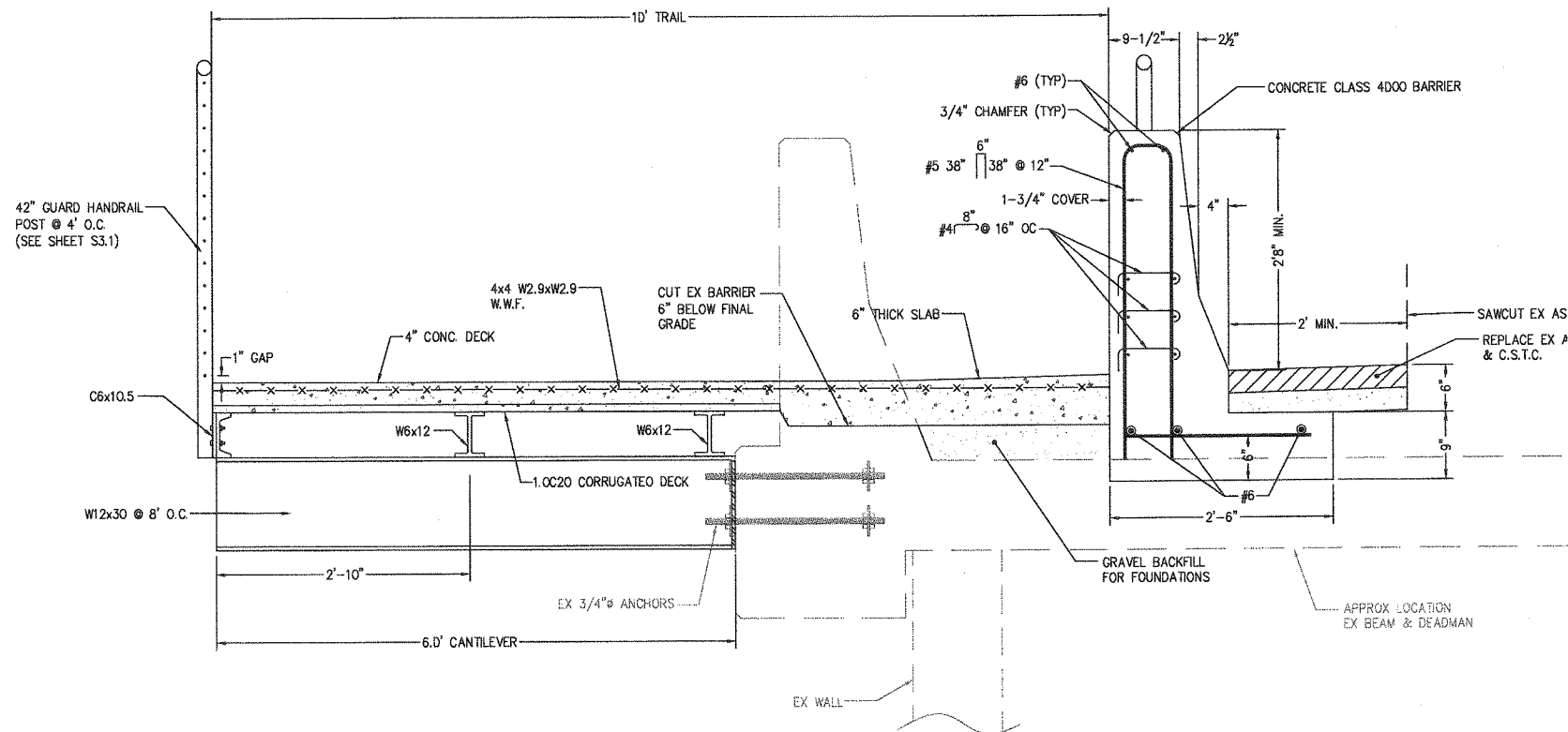
**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



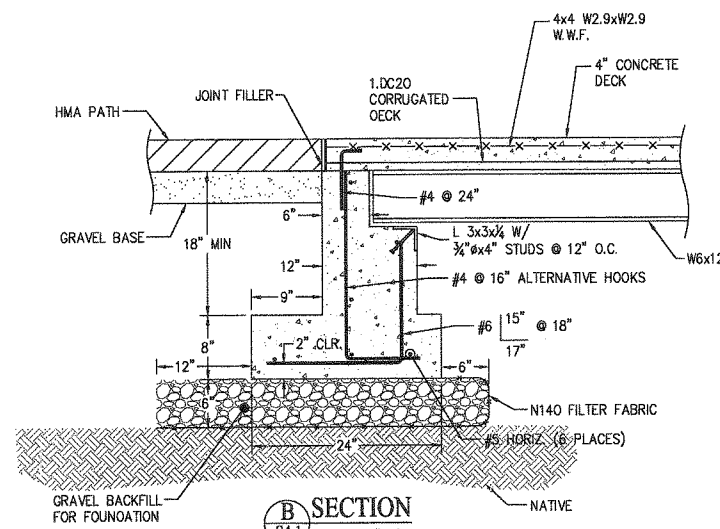
**SEAWALL PLAN**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

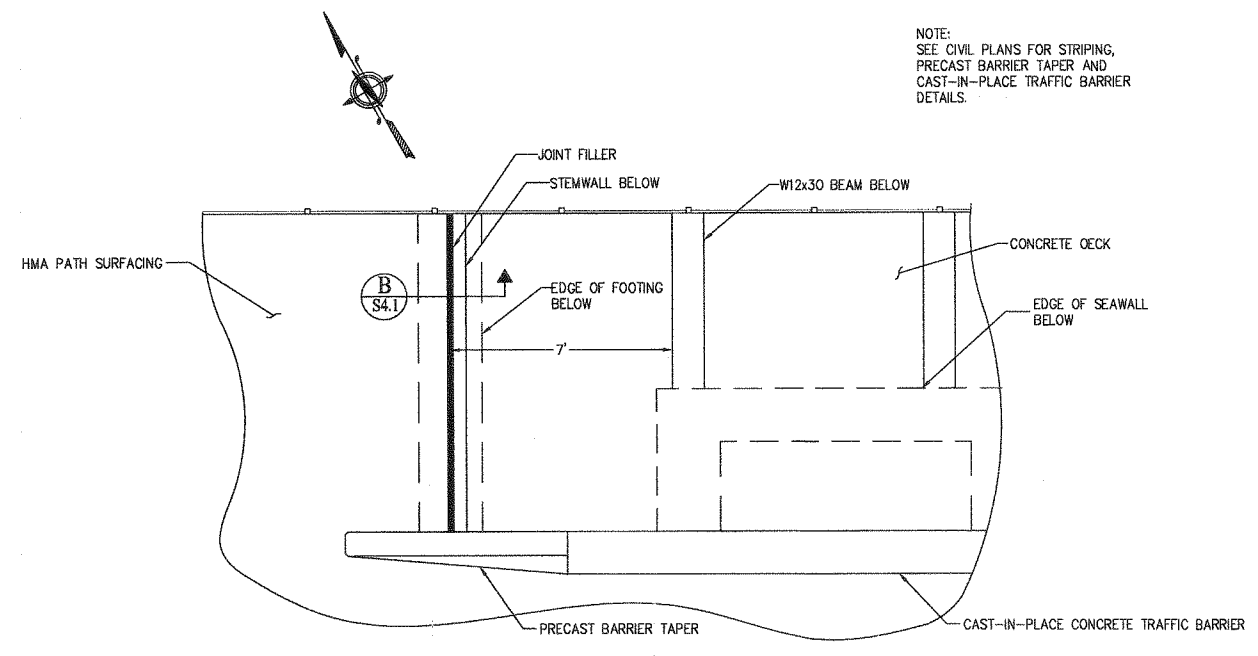
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DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407252**  
SHEET S4.0



**A SECTION STA. 60+96 TO 62+30**  
SCALE 1"=1'



**B SECTION**  
SCALE 1"=1'



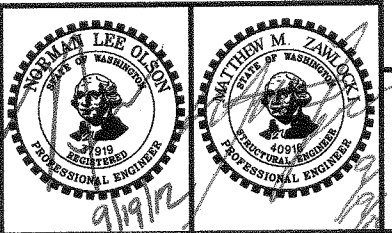
**STEM WALL PLAN VIEW AT STA. 60+89**  
SCALE 1"=3'

NOTE:  
SEE CIVIL PLANS FOR STRIPING,  
PRECAST BARRIER TAPER AND  
CAST-IN-PLACE TRAFFIC BARRIER  
DETAILS.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE
MMZ	MMZ	9/12
DRAWN	JAT	9/12
CHECKED	NLOI	9/12
APPROVED		
ACCEPTED		

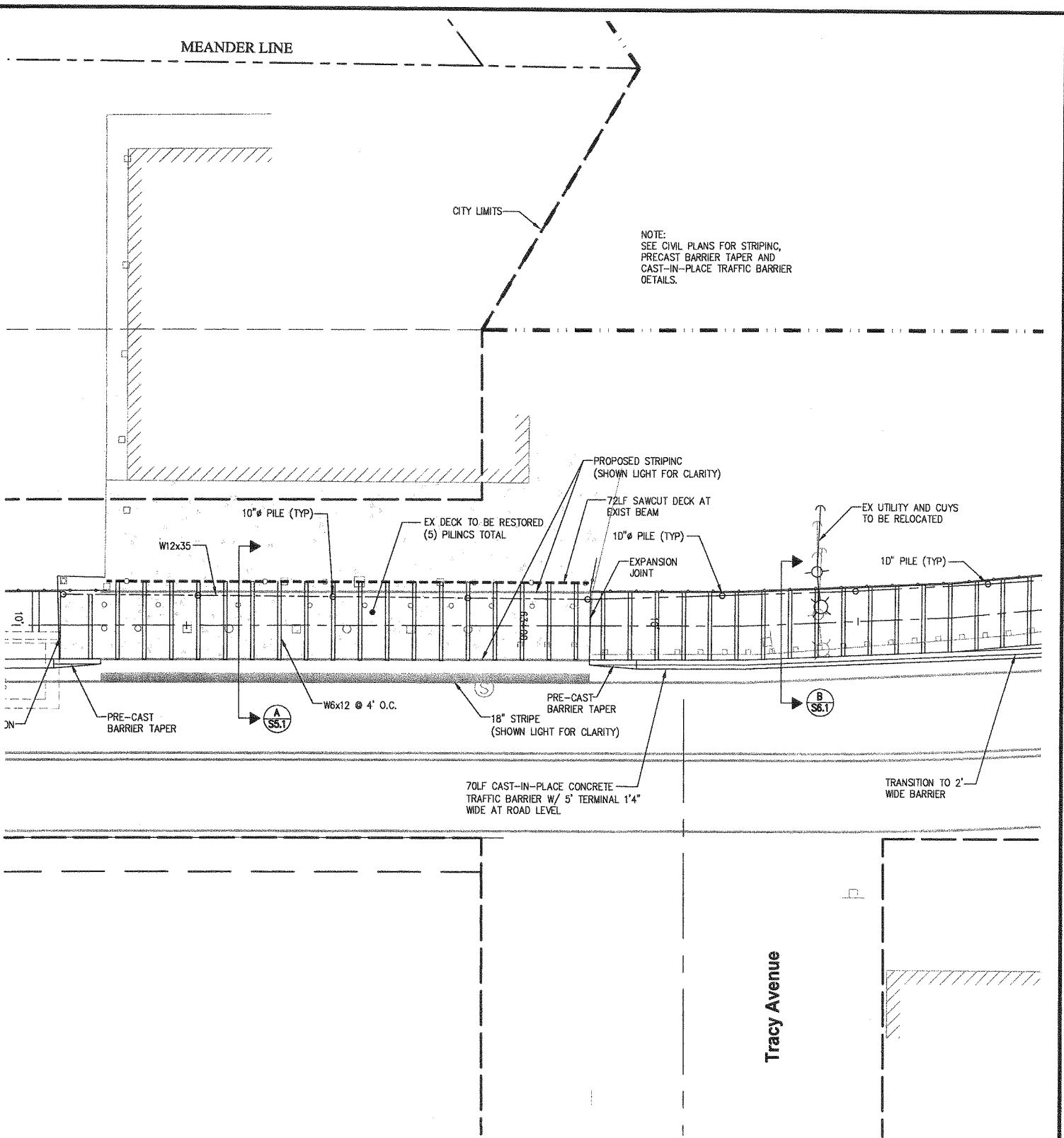
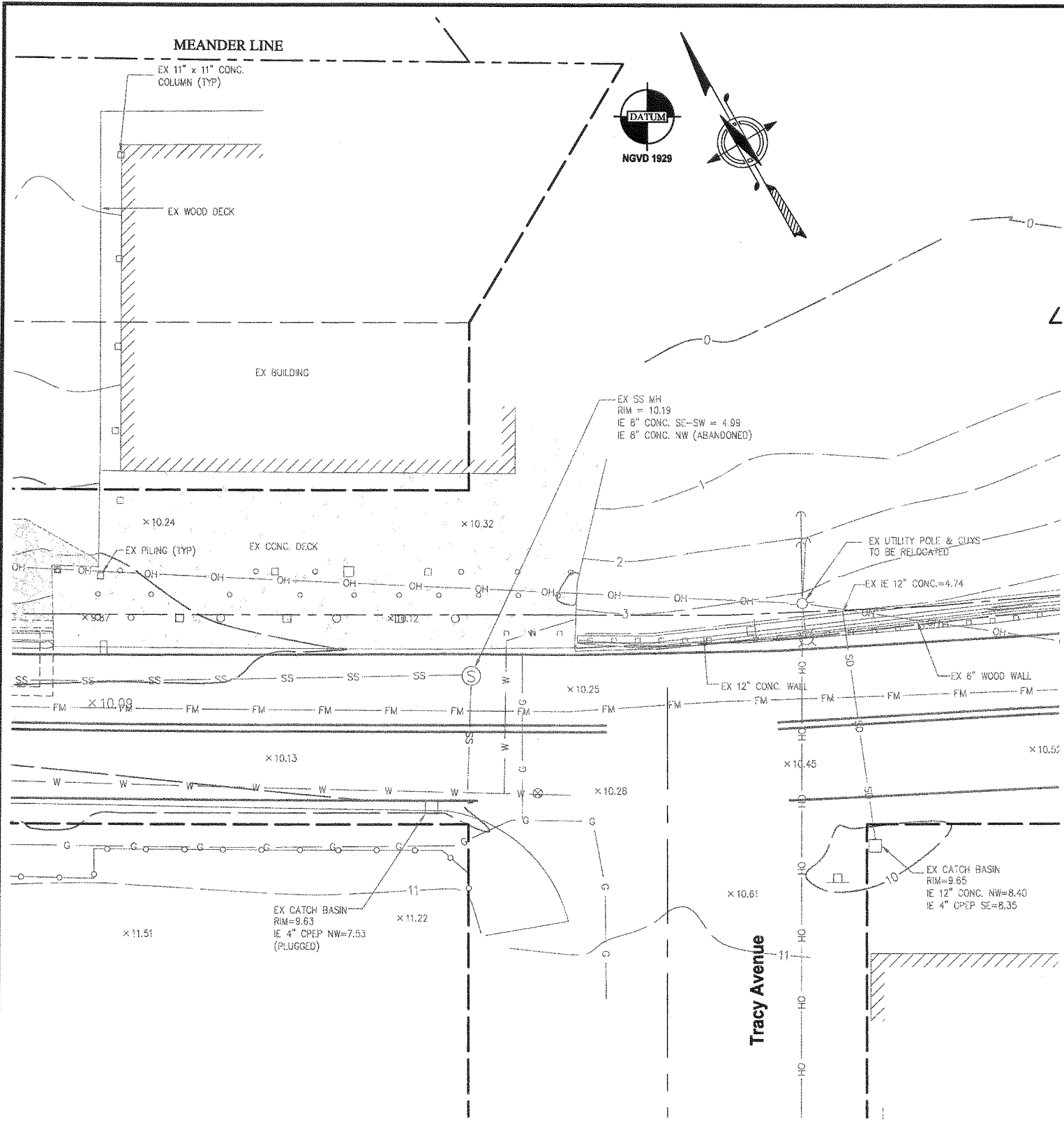
**N.L. Olson & Associates, Inc.**  
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(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**SEAWALL DETAILS**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

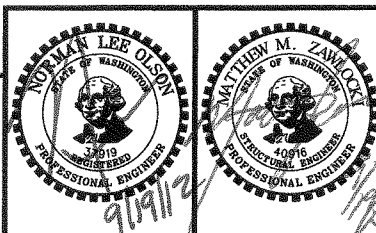
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DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407253**  
SHEET S4.1



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE
MMZ	MMZ	9/12
JAT	JAT	9/12
NLOI	NLOI	9/12

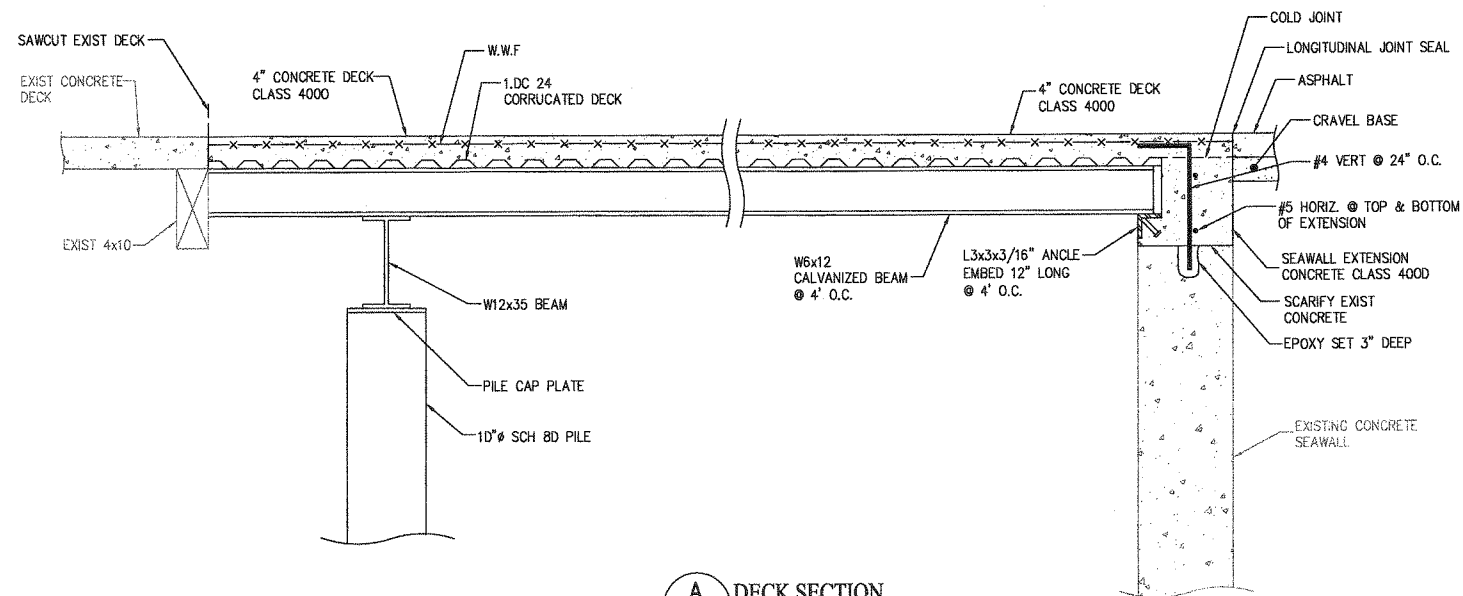
**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**DECK REPLACEMENT PLANS**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1"=10'  
 DATE: Sep. 12, 2012  
 DRAWING NUMBER  
**097337-407254**  
 SHEET S5.0



**A** DECK SECTION  
**S5.1** SCALE 1"=1'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

	BY	DATE
DESIGNED	MMZ	9/12
DRAWN	JAT	9/12
CHECKED	NLOI	9/12
APPROVED		
ACCEPTED		

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

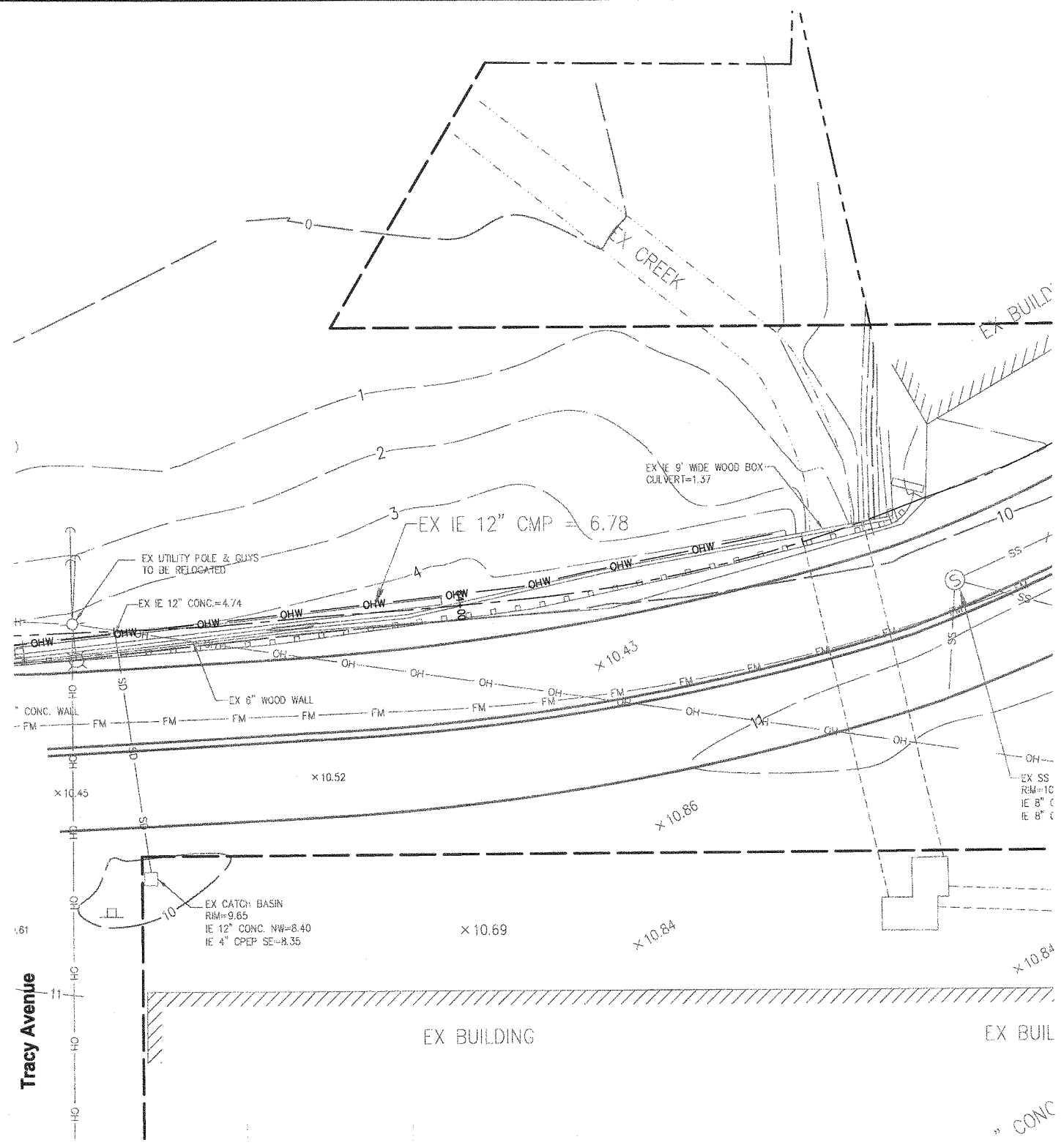


**DECK REPLACEMENT DETAILS**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
 Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

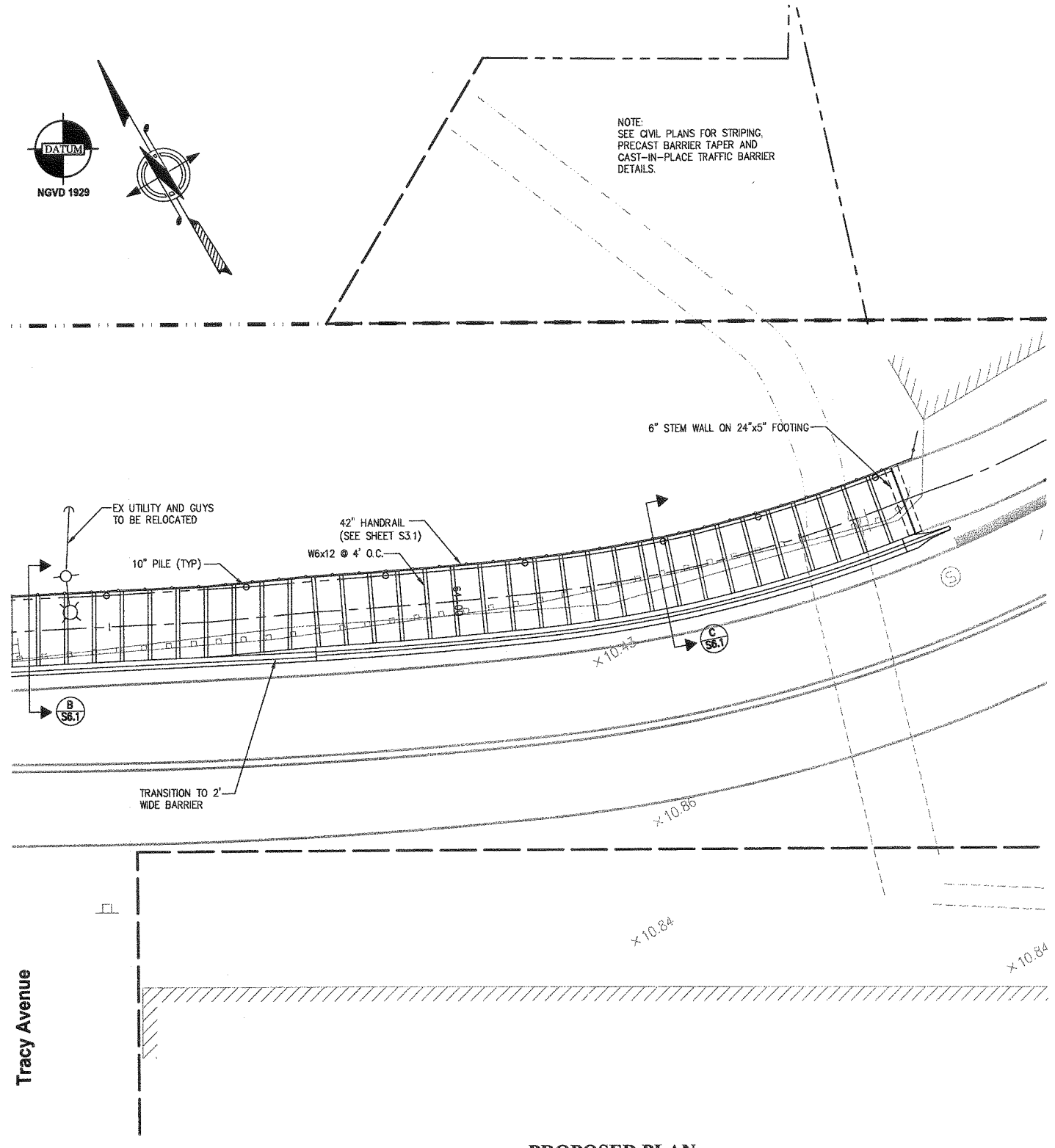
FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1"=1'  
 DATE: Sep. 12, 2012  
 DRAWING NUMBER  
**097337-407255**  
 SHEET S5.1





**EXISTING PLAN**



**PROPOSED PLAN**

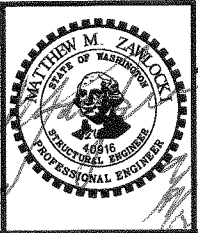
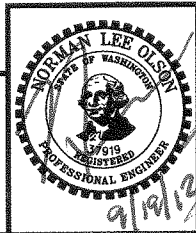


NOTE:  
SEE CIVIL PLANS FOR STRIPING,  
PRECAST BARRIER TAPER AND  
CAST-IN-PLACE TRAFFIC BARRIER  
DETAILS.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED MMZ	9/12
DRAWN JAT	9/12
CHECKED NLOII	9/12
APPROVED	
ACCEPTED	

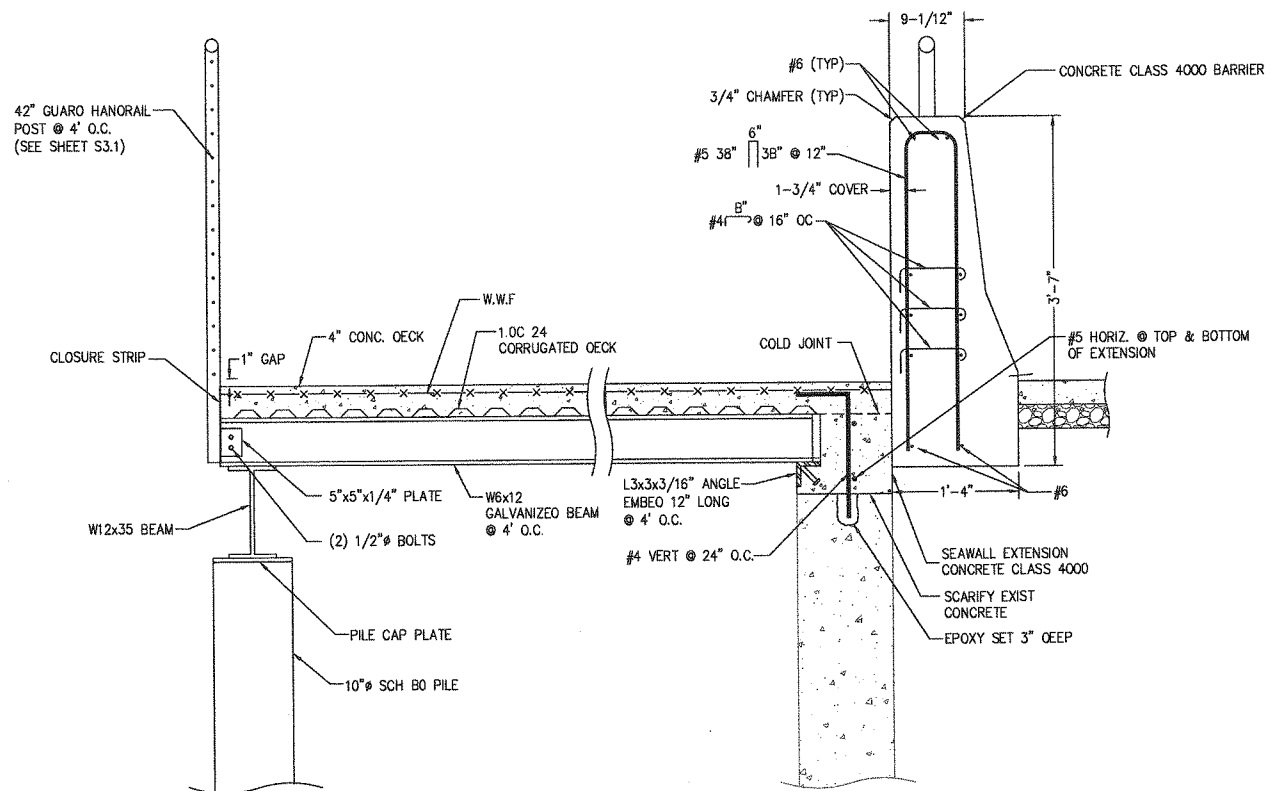
**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



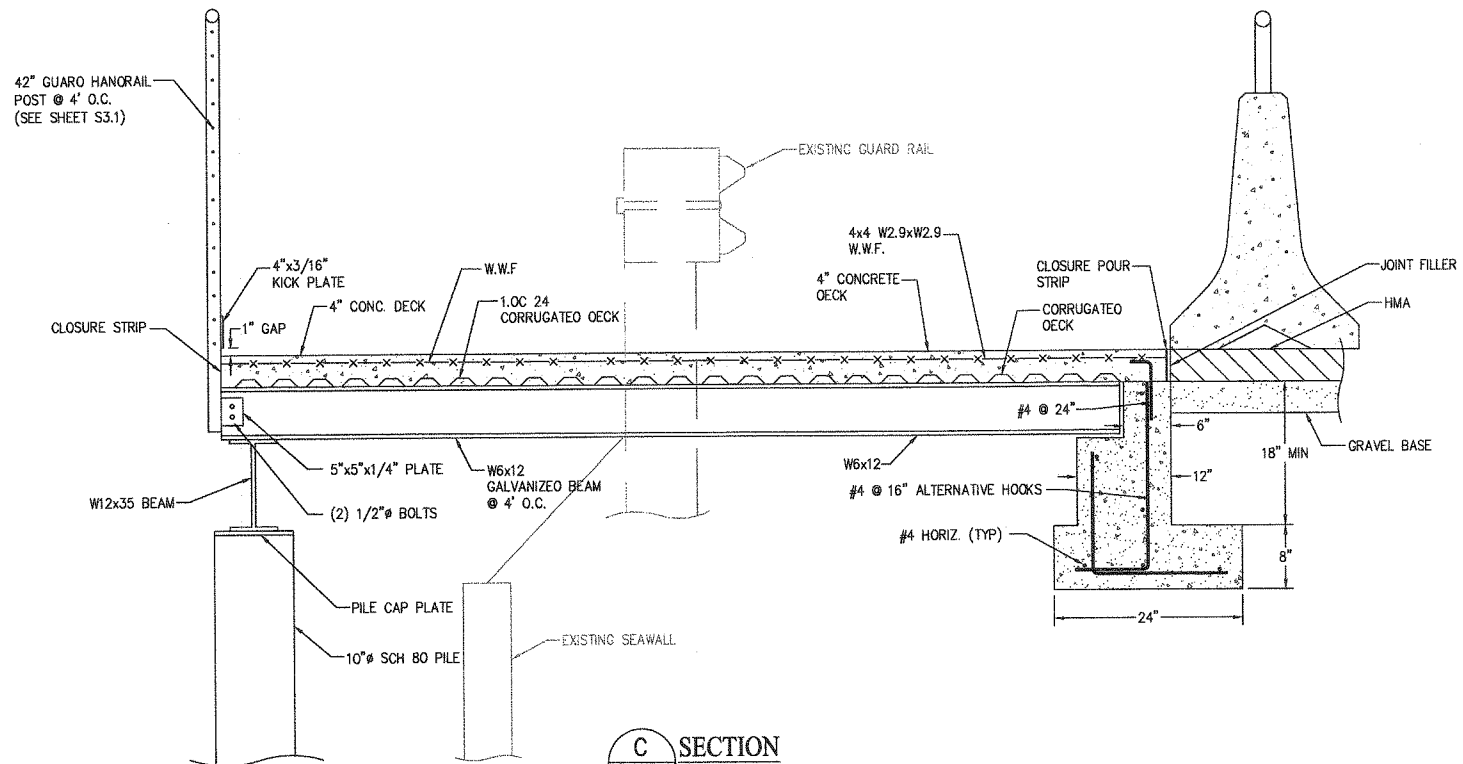
**CULVERT AREA PLAN**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1"=10'  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407256**  
SHEET S6.0



**B SECTION**  
S6.1 SCALE 1"=1'

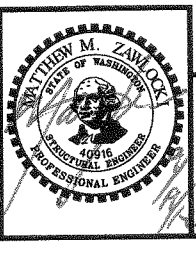
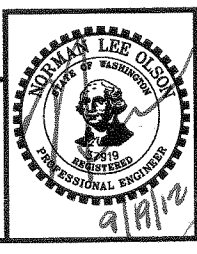


**C SECTION**  
S6.1 SCALE 1"=1'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

	BY	DATE
DESIGNED	MMZ	9/12
DRAWN	JAT	9/12
CHECKED	NLOII	9/12
APPROVED		
ACCEPTED		

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

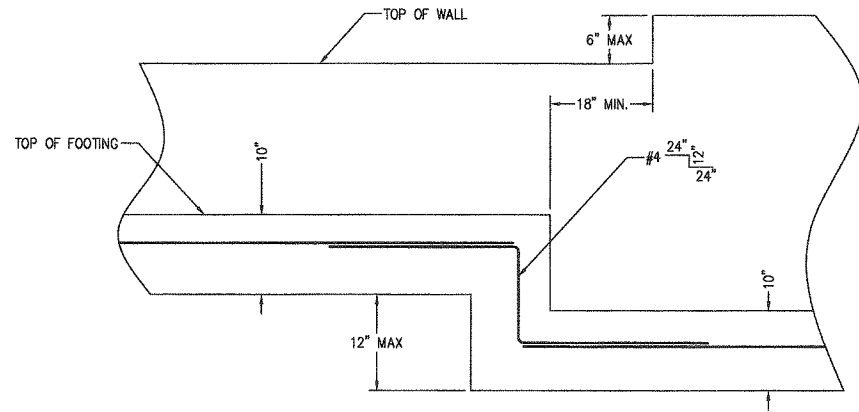


**CULVERT AREA DETAILS**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

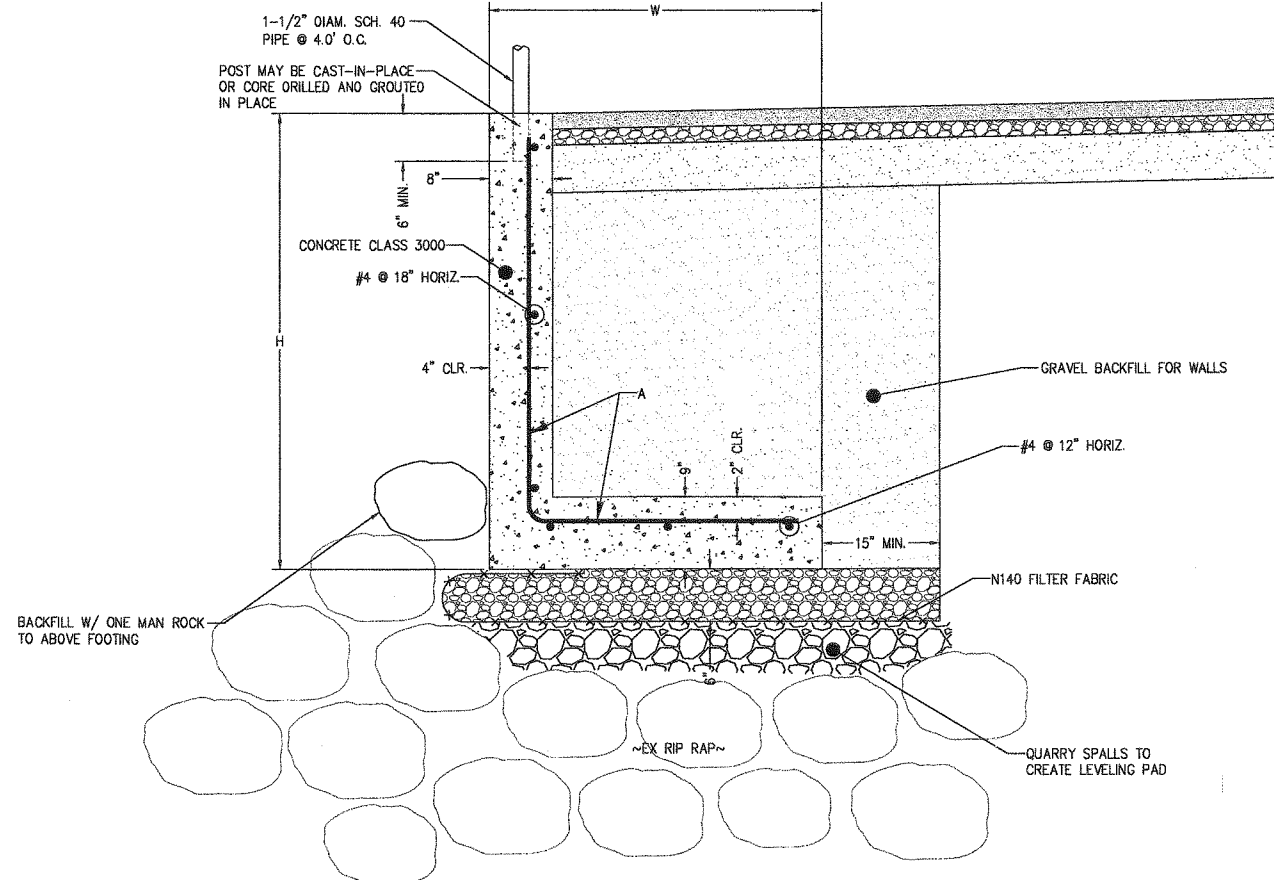
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DATE	Sep. 12, 2012
DRAWING NUMBER	097337-407257
SHEET	S6.1

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**STEP DETAIL WALL TYPE 1**  
SCALE 1/2"=1'

TYPE 1		
H	W	A
3'	2.5'	#4@18"
4'	3.5'	#4@18"
5'	4.0'	#4@12"
6'	4.5'	#5@12"

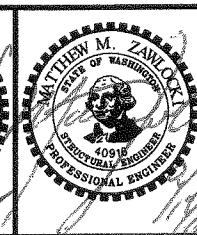
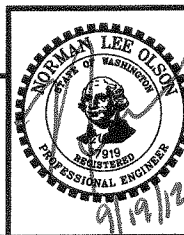


**WALL TYPE 1**  
SCALE 1/2"=1'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED MMZ	9/12
DRAWN JAT	9/12
CHECKED NLOI	9/12
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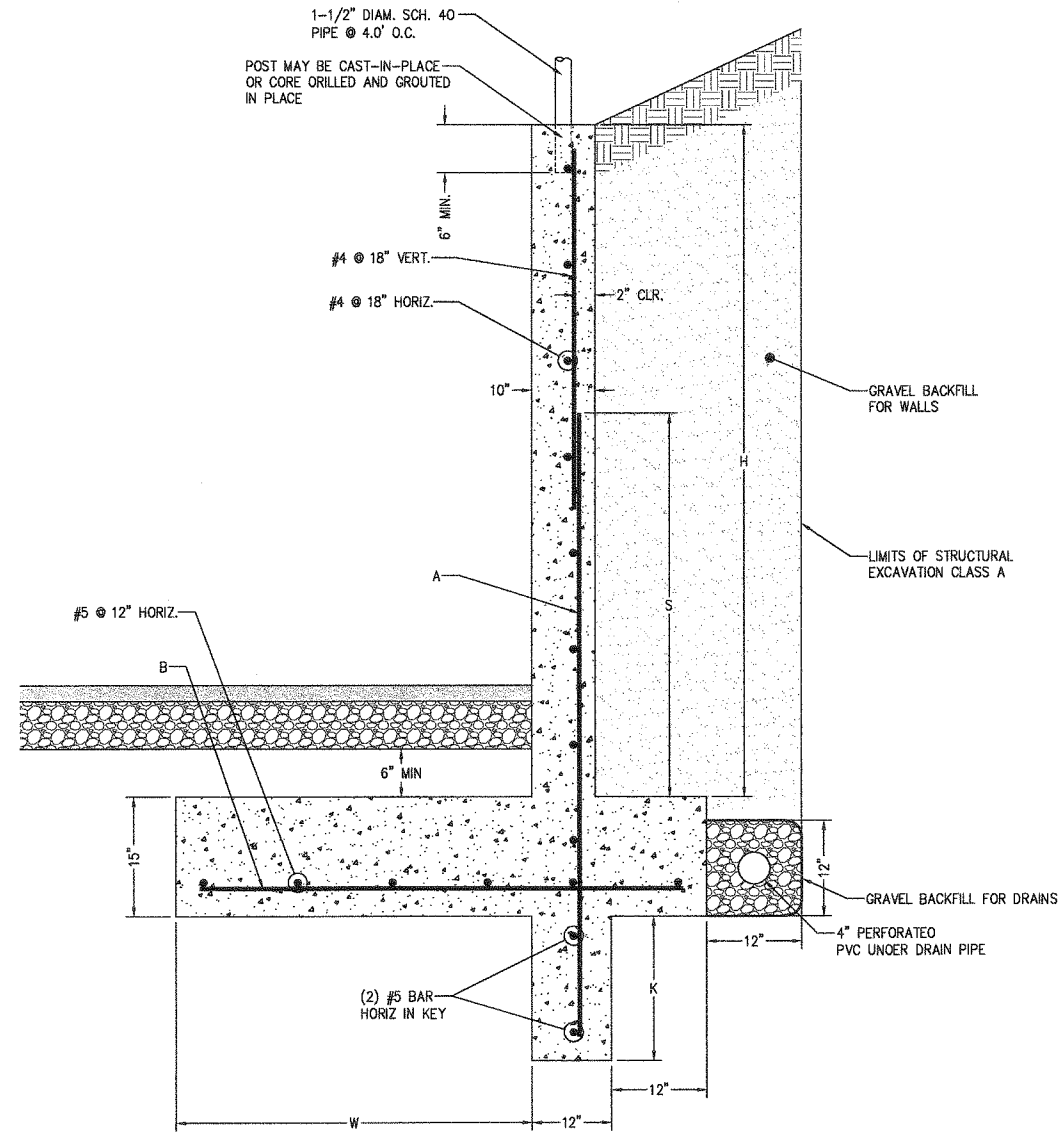
**WALL DETAILS 1**  
City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1/2"=1'  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407258**  
SHEET S7.0

TYPE 2

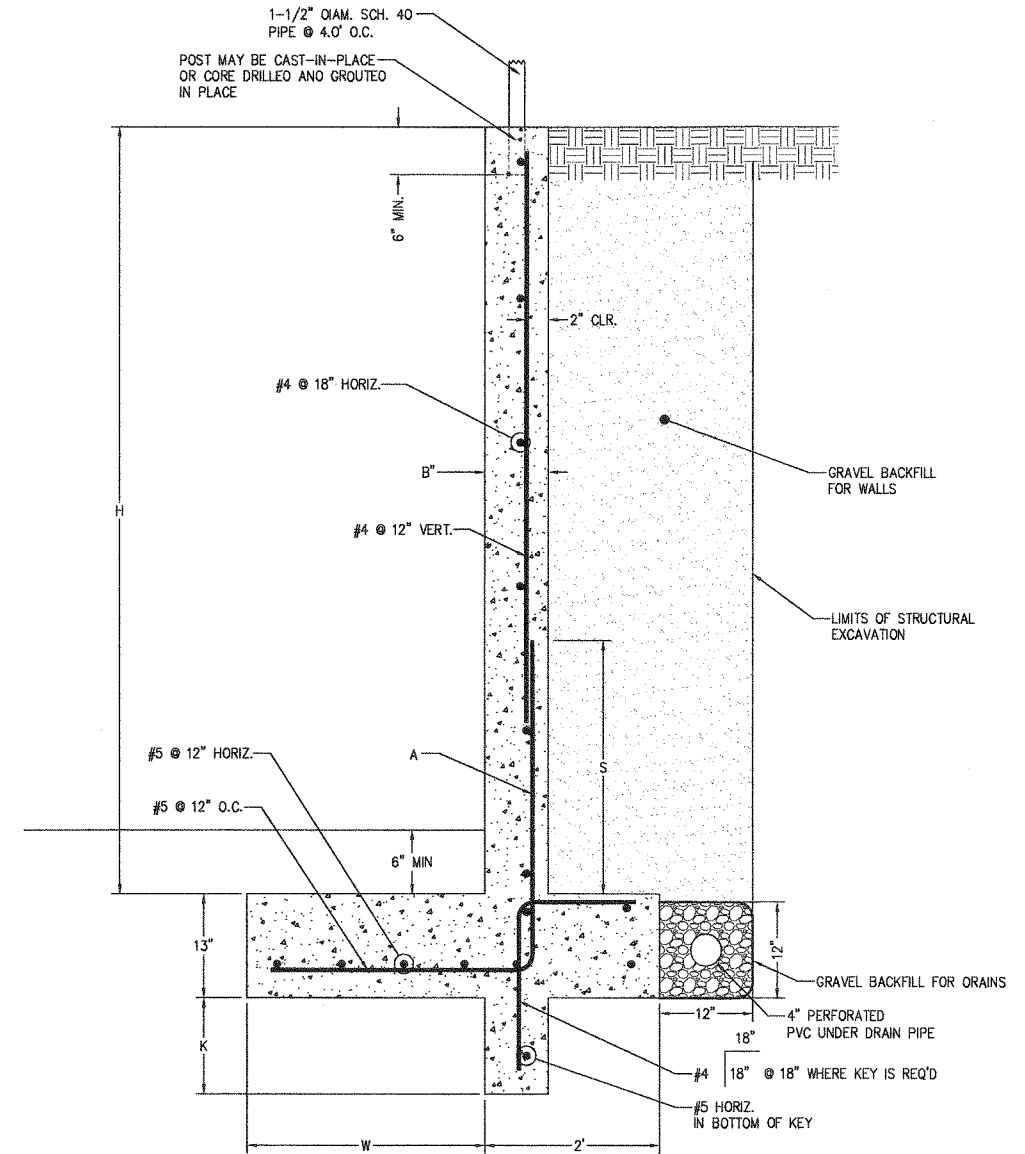
H	W	K	A	B	S
3'	1.5'	0"	#4@18"	#4@18"	24"
7'	3.75'	18"	#5@9"	#5@9"	42"
11'	4.5'	18"	#6@9"	#5@9"	48"



**WALL TYPE 2**  
SCALE 1/2"=1'

TYPE 3

H	W	K	A	S
8'	2'-6"	12"	#4@12"	30"
5'	12"	0"	#4@18"	24"



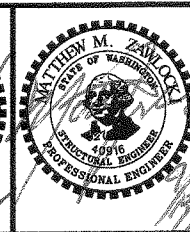
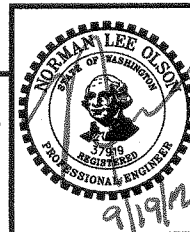
**WALL TYPE 3**  
SCALE 1/2"=1'

REVISIONS

NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED MMZ	9/12
DRAWN JAT	9/12
CHECKED NLOI	9/12
APPROVED	
ACCEPTED	

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(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**WALL DETAILS 2**

City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail

Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:

**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1/2"=1'

DATE: Sep. 12, 2012

DRAWING NUMBER

**097337-407259**

SHEET S7.1



**NOTES:**

PLANT SPECIES, QUANTITIES AND SIZE MUST BE PROVIDED AS SPECIFIED. ANY SUBSTITUTIONS MUST BE APPROVED BY THE PROJECT ENGINEER.

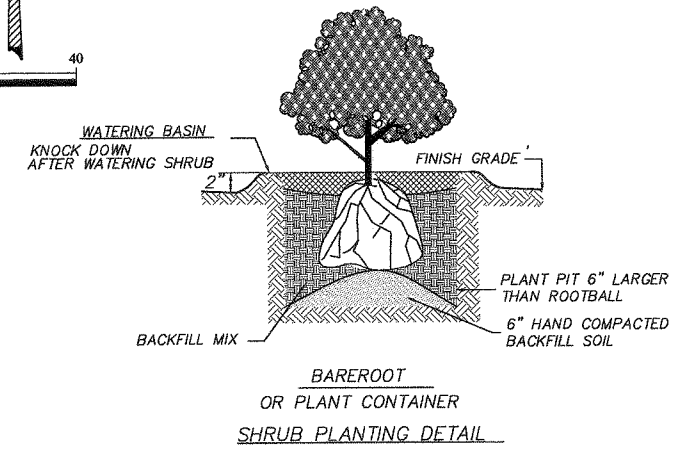
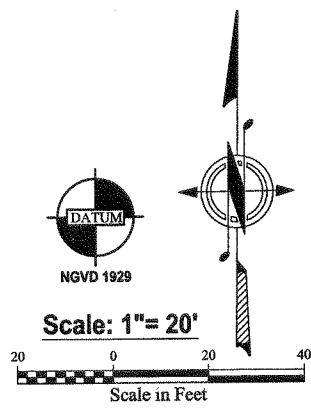
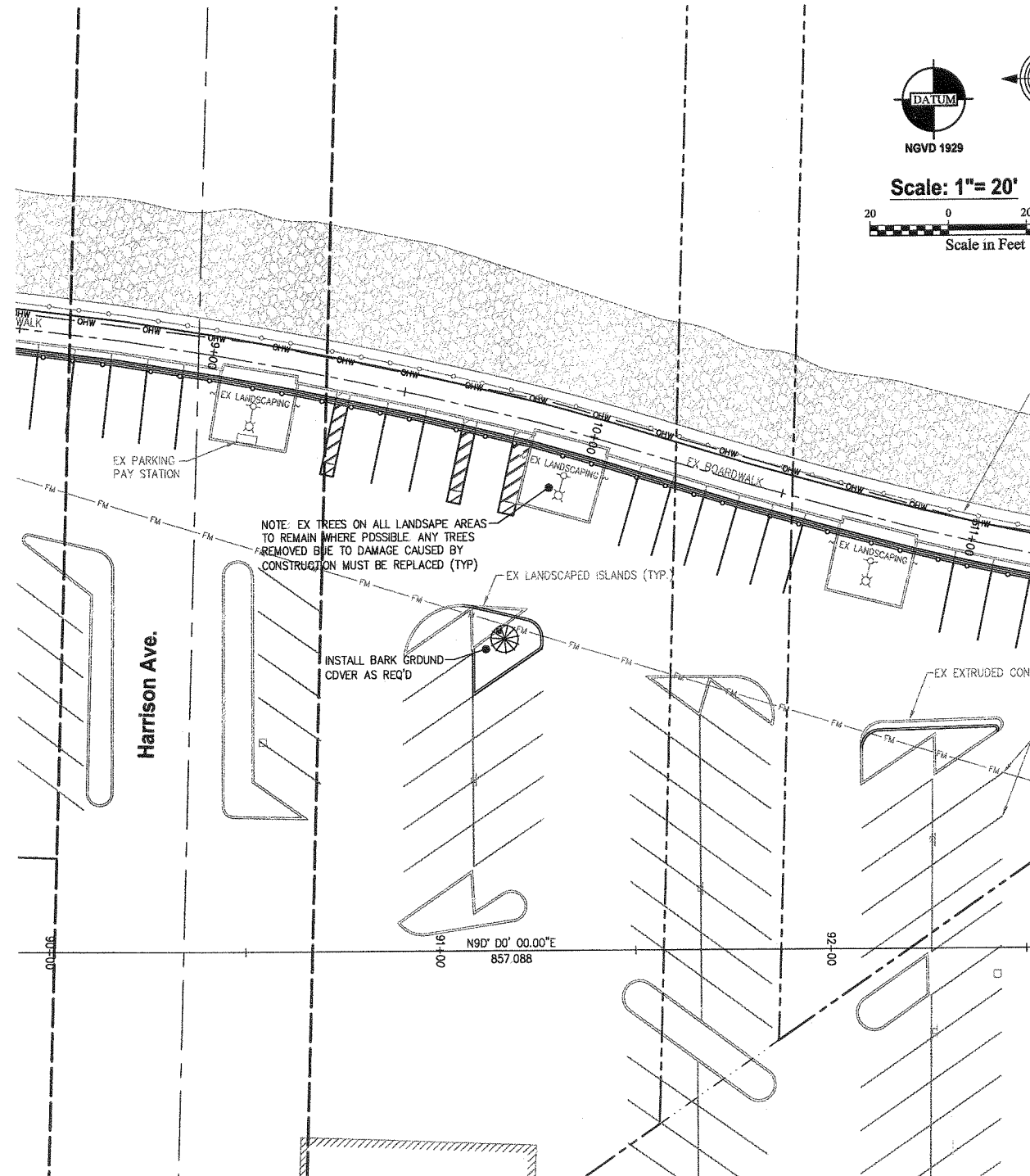
ALL PLANTING MATERIALS SHALL BE HEALTHY, SOUND, VIGOROUS OF GROWTH, FREE OF ANY DEFECTS, DISEASES AND ANY FORM OF INFESTATIONS.

ALL PLANTING WILL BE RANDOM (HAND LAID OUT, NOT BY STRING LINE). TRIANGULAR SPACED WITHIN THEIR RESPECTIVE ZONES TO EMULATE A NATURAL PATTERN OF GROWTH.

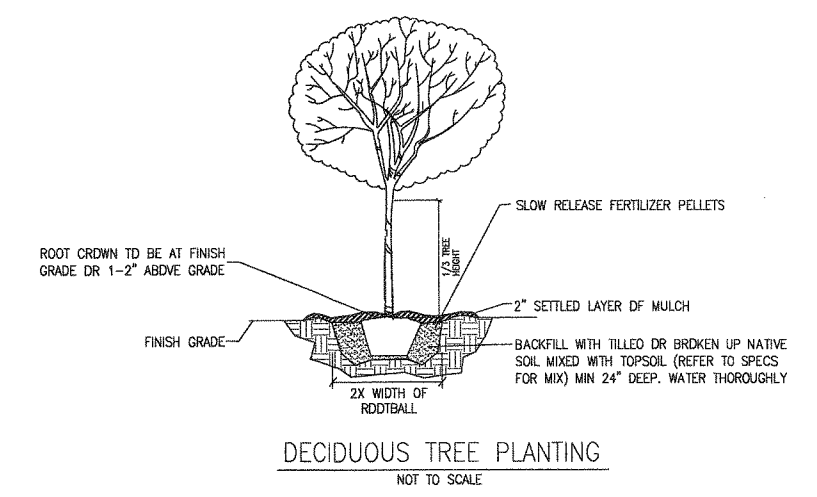
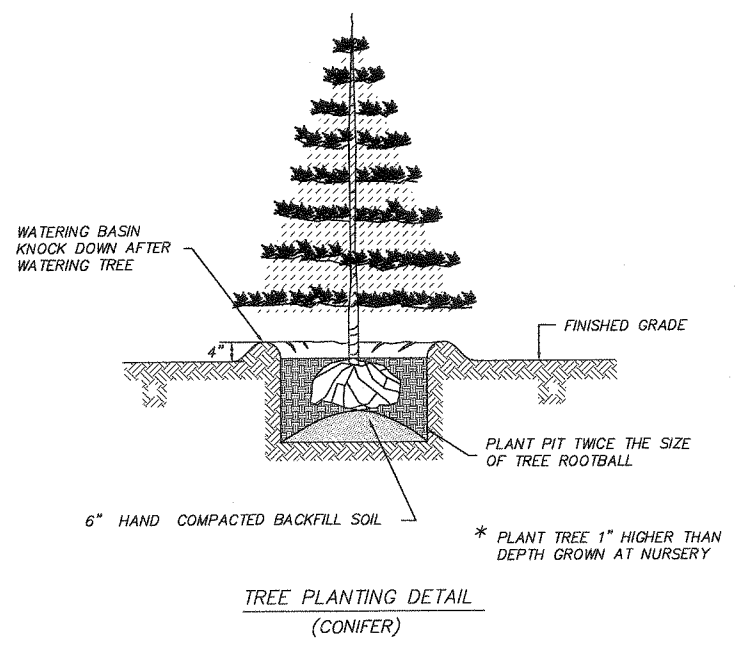
TREE AND SHRUB PLANTING SHALL BE PER DETAILS.

SUBSTITUTIONS OF ANY PLANT MATERIALS OR CHANGES IN THE LANDSCAPE PLAN MUST BE APPROVED BY THE PROJECT ENGINEER.

PLANTING BACKFILL SOIL SHALL BE SOIL INDIGENOUS TO THE PLANTING AREA. A GROWTH STIMULATING FERTILIZER MAY BE USED OUTSIDE OF EMERGENT AREAS IN BUFFER AREAS, ADMINISTERED AT THE AMOUNTS RECOMMENDED BY THE MANUFACTURER.



QUAN	SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	SPACING
--		VINE MAPLE MAGNOLIA VARIETY FLOWERING CHERRY PLUM	Acer circinatum Magnolia species Prunus species	6'-8'	AS SHOWN
--		HEDGE MAPLE EUROPEAN HORNBEAM FLOWERING CHERRY VARIETY	Acer circinatum Carpinus betulas Prunus species	6'-8'	AS SHOWN
--		RED MAPLE VARIETY PACIFIC SUNSET MAPLE OAK VARIETY	Acer rubrum species Acer truncatum xplatanoide Quercus species	2.5" CA	AS SHOWN
--		DOUGLAS FIR WESTERN RED CEDAR	Pseudo tsuga menziesii Thuja plicata	MIN 3'	AS SHOWN
--		SNOWBERRY NOOTKA ROSE OCEAN SPRAY RHODODENDRON+AZALEAS	Symphoricarpos albus Rosa hatkana Holodiscus discolor Rhododendron species	1 GAL	~5' OC



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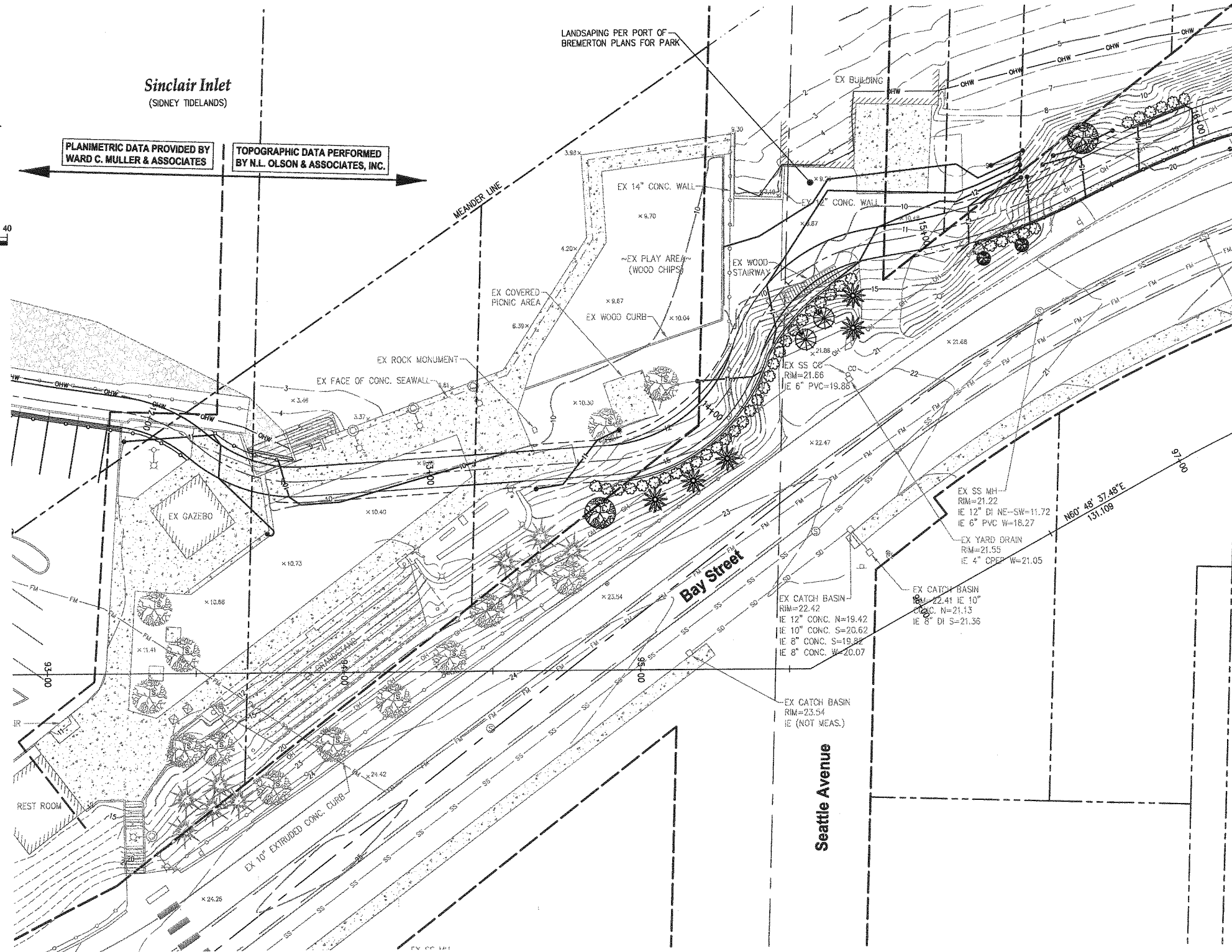
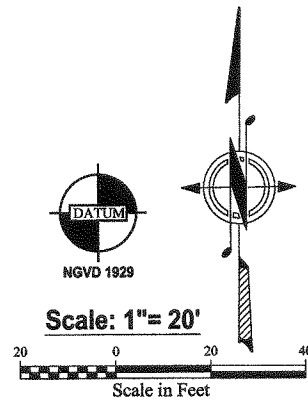
REVISIONS				BY	DATE
NO	DATE	BY	DESCRIPTION	DESIGNED	RPJ 9/12
				DRAWN	JAT 9/12
				CHECKED	NLOI 9/12
				APPROVED	
				ACCEPTED	

**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

**LANDSCAPING PLAN 1**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1"=20'  
 DATE: Sep. 12, 2012  
 DRAWING NUMBER  
**097337-407260**  
 SHEET L1.0



PLANIMETRIC DATA PROVIDED BY  
WARD C. MULLER & ASSOCIATES

TOPOGRAPHIC DATA PERFORMED  
BY N.L. OLSON & ASSOCIATES, INC.

LANDSCAPING PER PORT OF  
BREMERTON PLANS FOR PARK

Sinclair Inlet  
(SIDNEY TIDELANDS)

Bay Street

Seattle Avenue

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE
RPJ	RPJ	9/12
JAT	JAT	9/12
NLOI	NLOI	9/12

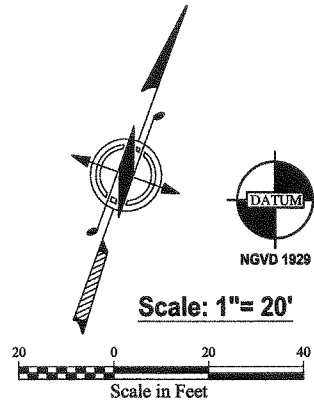
**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
(360) 895-2350 or (360) 876-2284  
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

**LANDSCAPING PLAN 2**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

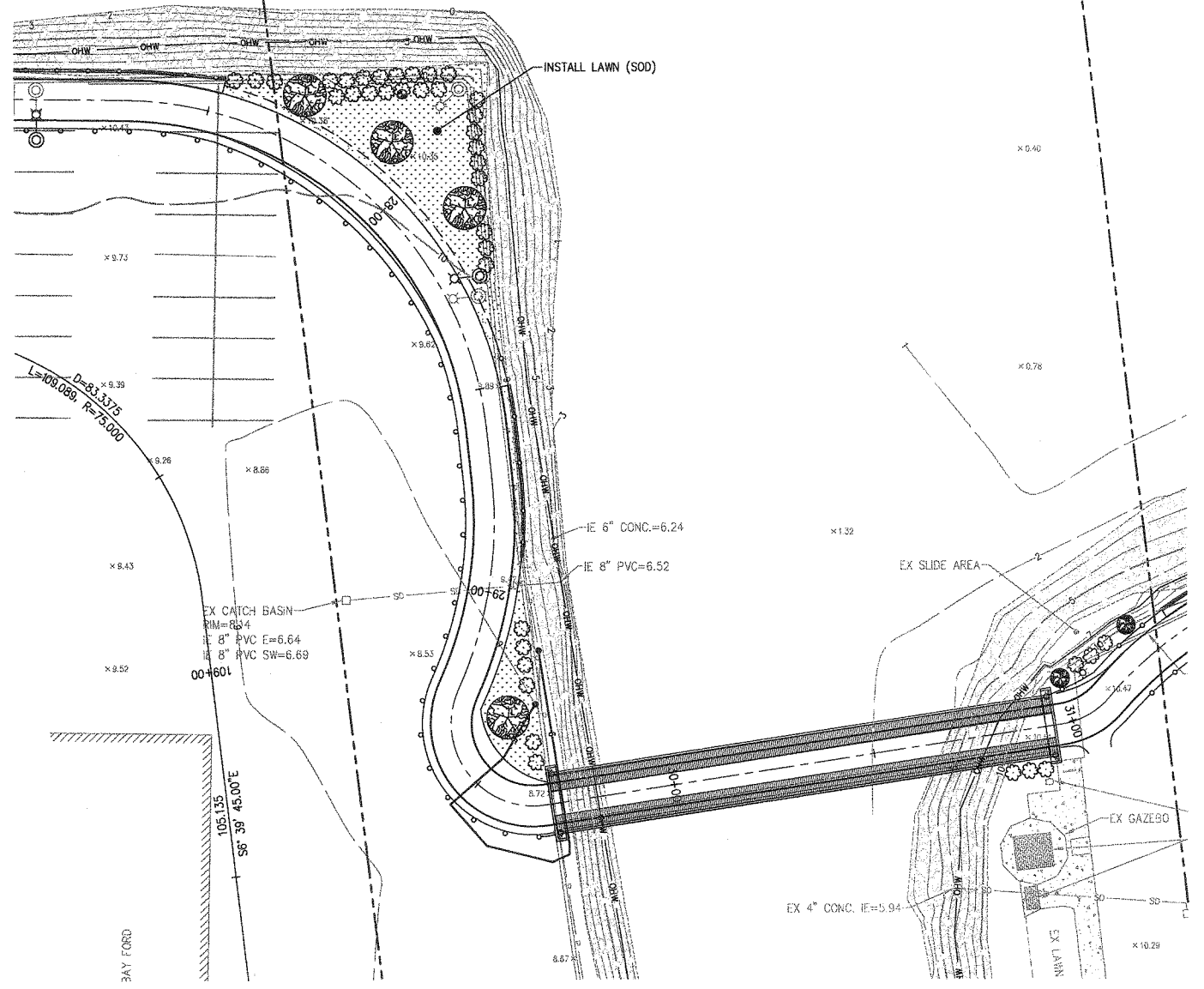
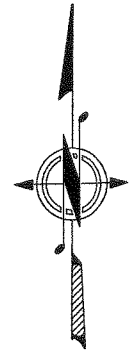
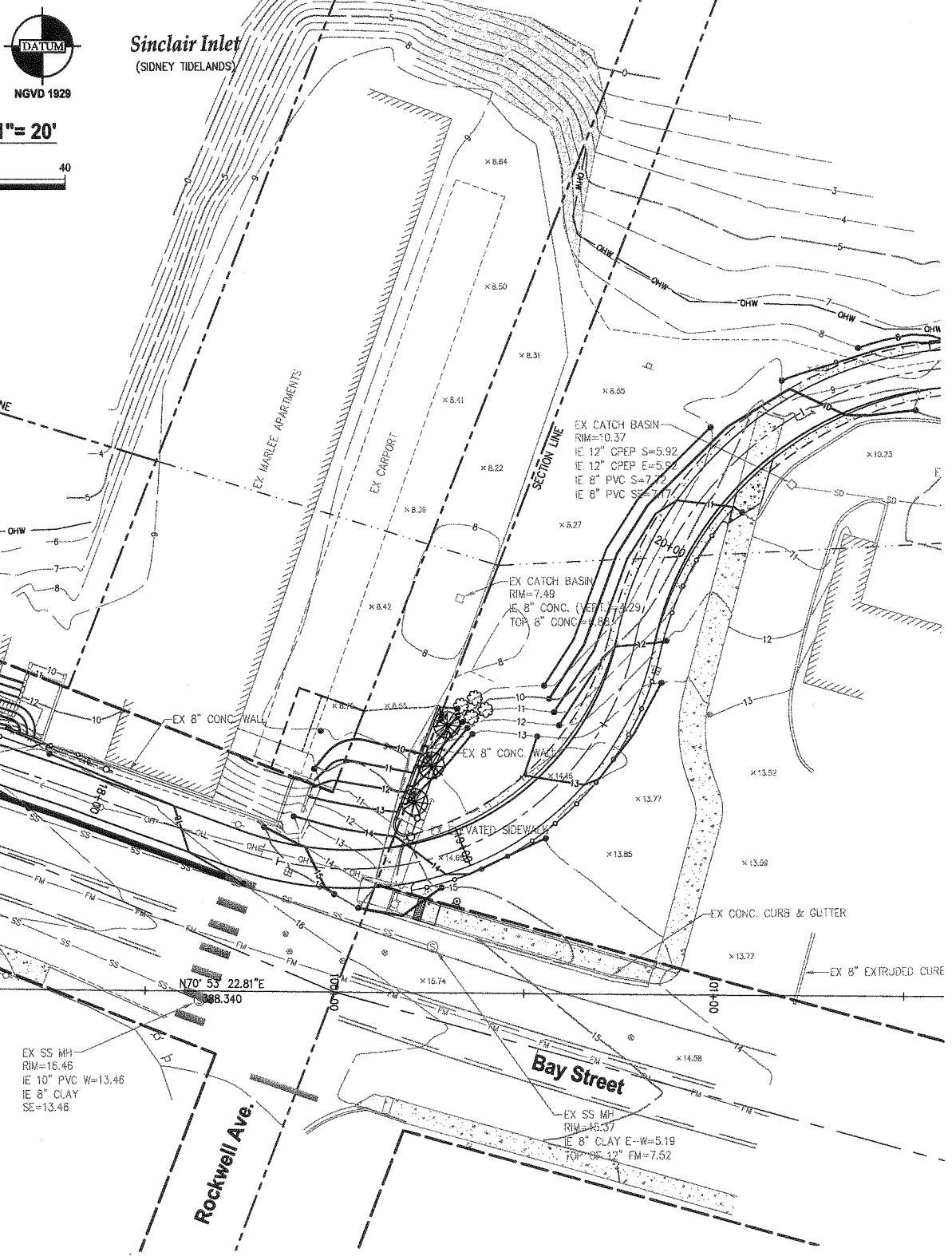
FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1"= 20'  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407261**  
SHEET L1.1

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Sinclair Inlet  
(SIDNEY TIDELANDS)



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REVISIONS			
NO.	DATE	BY	DESCRIPTION

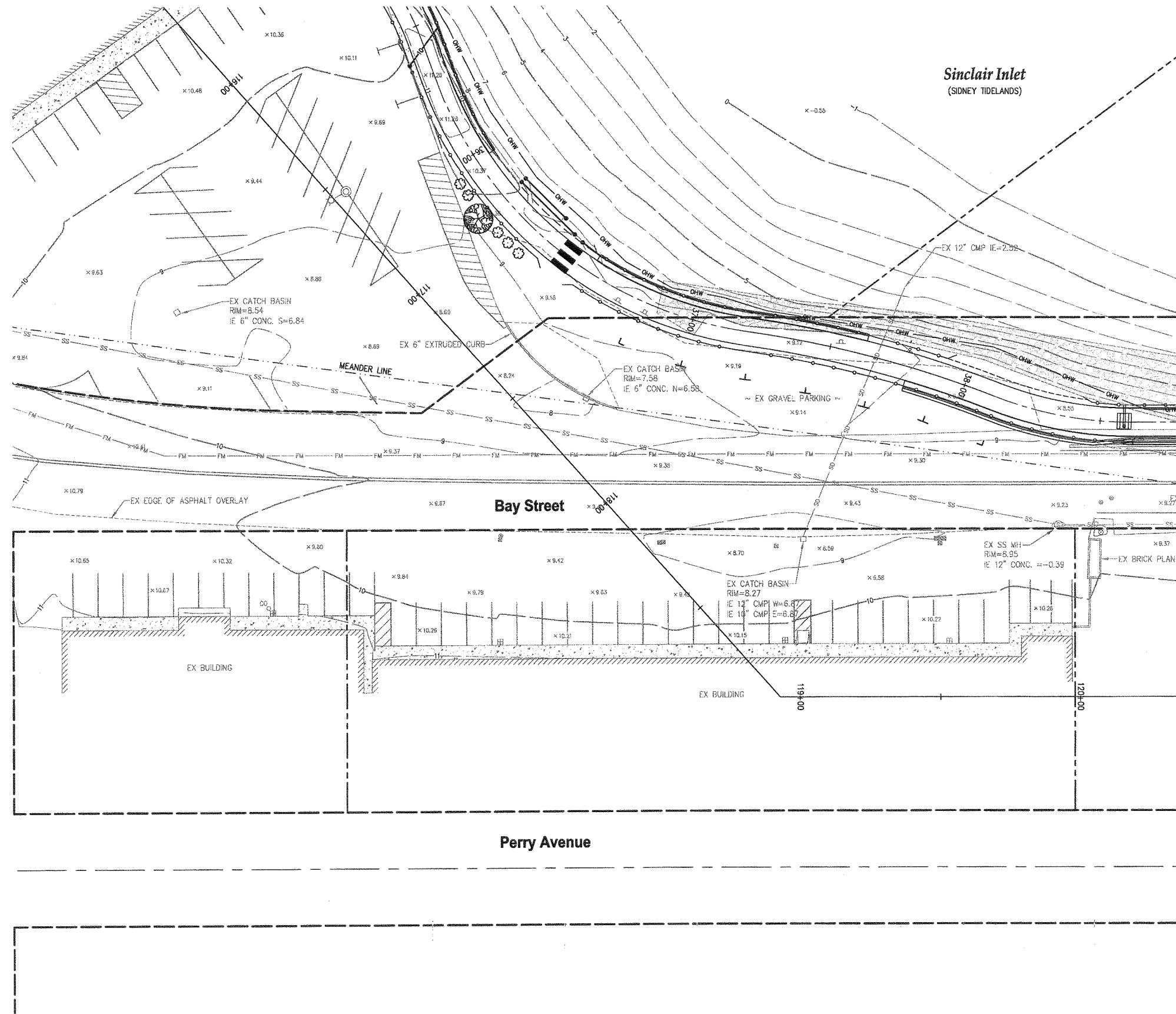
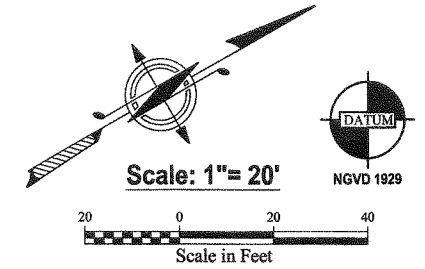
BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOH	9/12
APPROVED	
ACCEPTED	

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
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2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

**LANDSCAPING PLAN 3**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1"= 20'  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407262**  
SHEET L1.2



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE
RPJ	RPJ	9/12
JAT	JAT	9/12
NLOH	NLOH	9/12

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 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

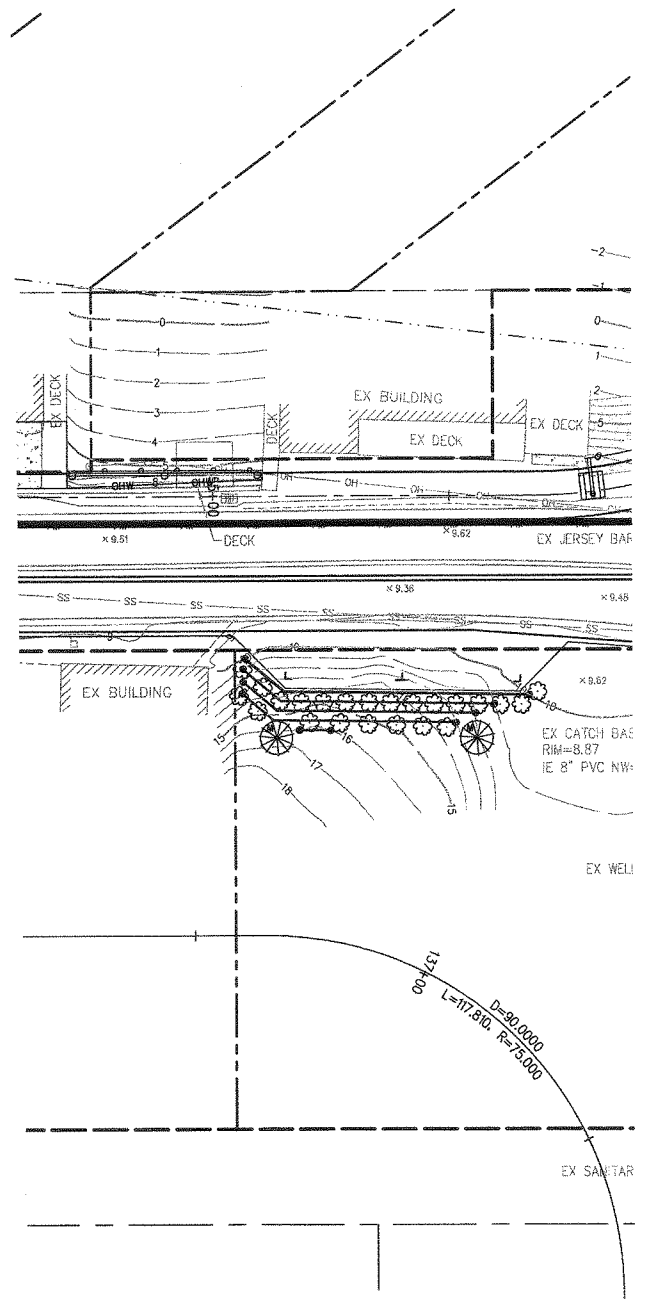
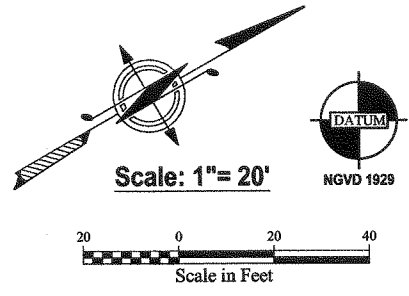
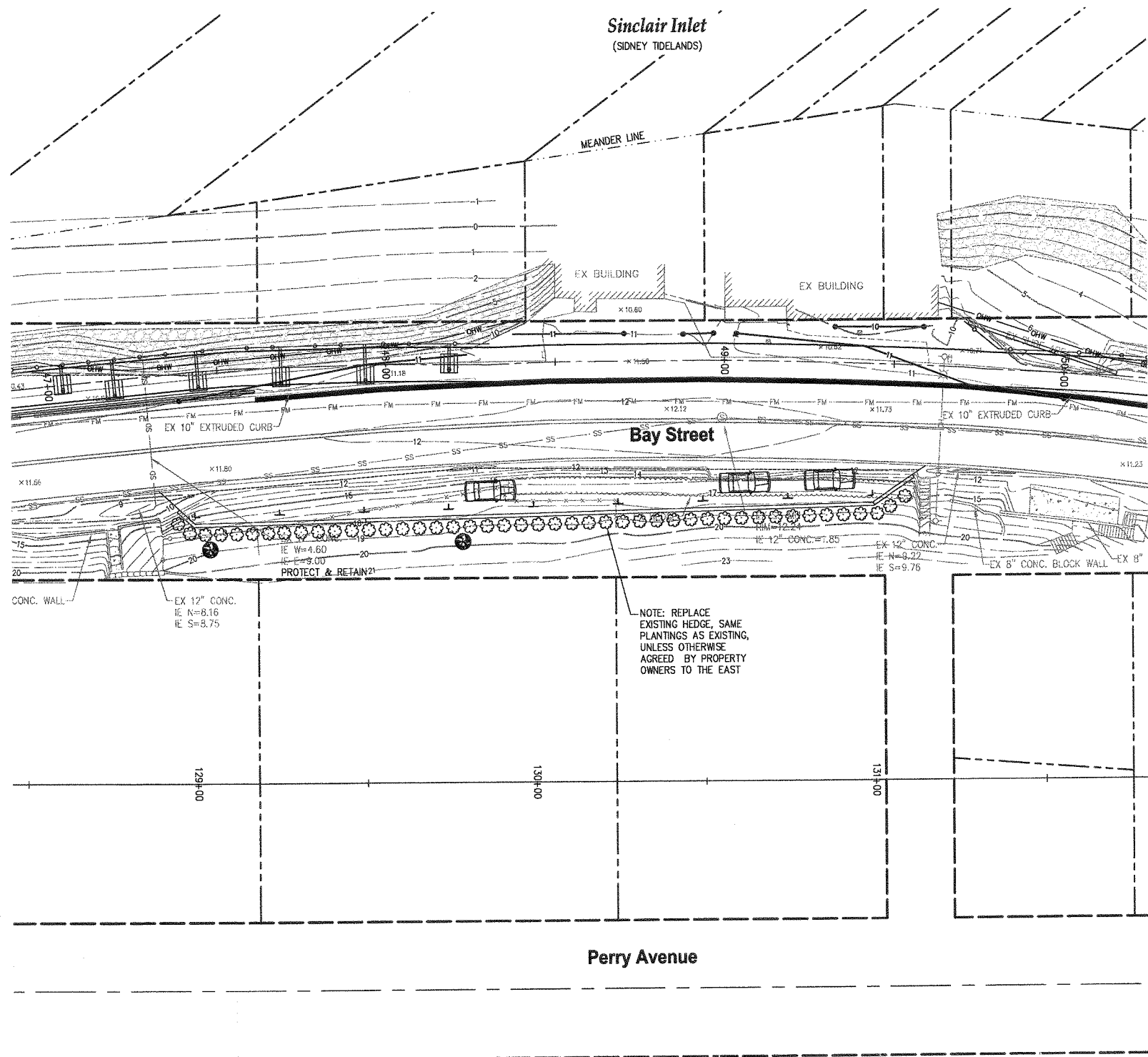
**LANDSCAPING PLAN**  
 City of Port Orchard Pedestrian Enhancement Project  
 Mosquito Fleet Trail  
 Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26,  
 Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
**City of Port Orchard**  
 216 Prospect Street  
 Port Orchard, WA 98366

SCALE: 1"= 20"  
 DATE: Sep. 12, 2012  
 DRAWING NUMBER  
**097337-407263**  
 SHEET L1.3

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

	BY	DATE
DESIGNED	RPJ	9/12
DRAWN	JAT	9/12
CHECKED	NLOII	9/12
APPROVED		
ACCEPTED		

**N.L. Olson & Associates, Inc.**  
Engineering, Planning and Surveying  
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2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

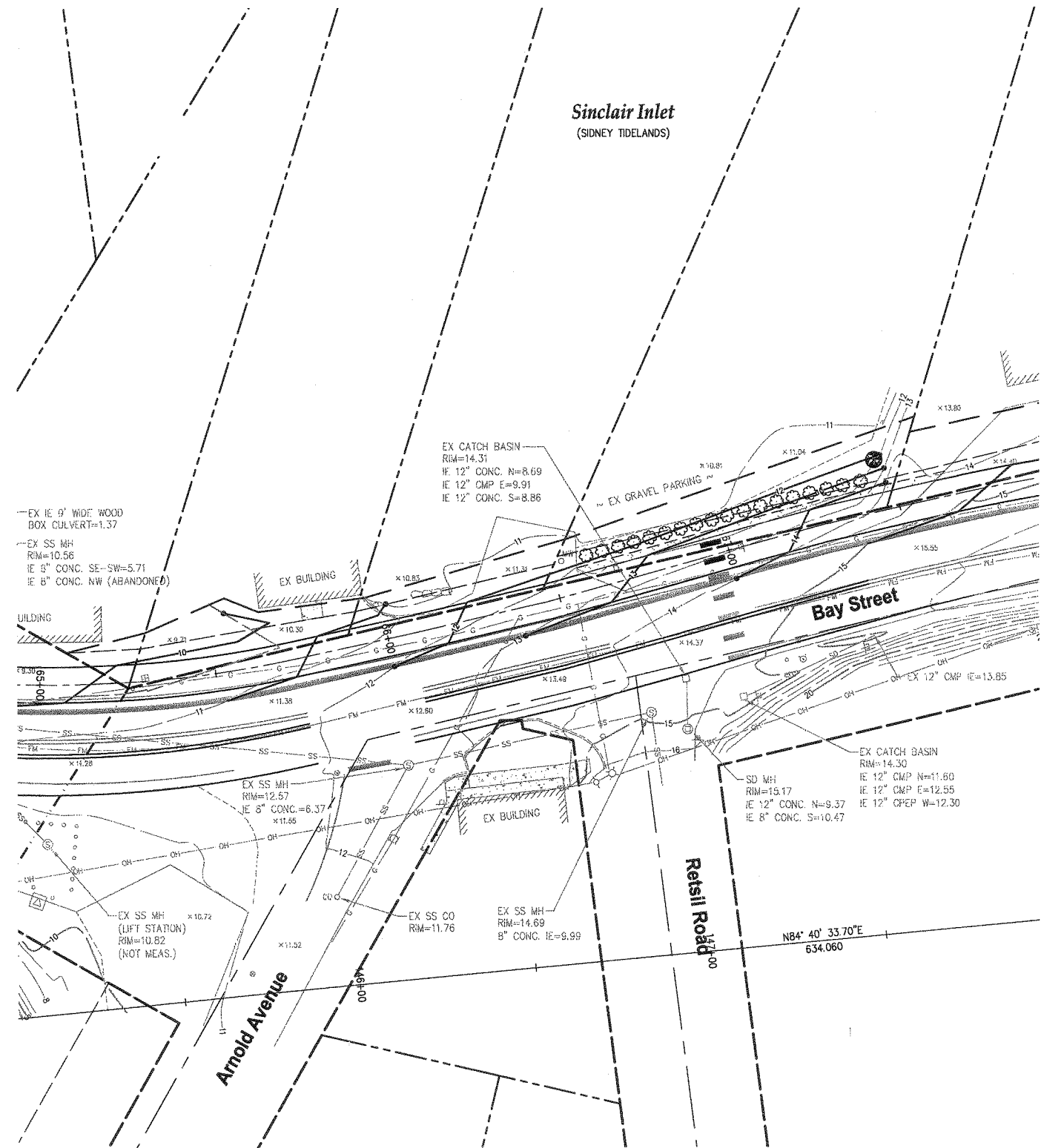
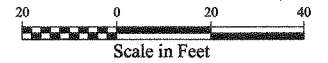
**LANDSCAPING PLAN 5**  
City of Port Orchard Pedestrian Enhancement Project  
**Mosquito Fleet Trail**  
Situate Within Gov't. Lots 1, 2, 3 and 4, Section 25 and within Gov't. Lots 3 and 4, Section 26, Township 24 North, Range 1 East, W.M., City of Port Orchard, Kitsap County, Washington.

FOR:  
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Port Orchard, WA 98366

SCALE: 1" = 20'  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407264**  
SHEET L1.4



Scale: 1"= 20'



REVISIONS

NO.	DATE	BY	DESCRIPTION

BY	DATE
DESIGNED RPJ	9/12
DRAWN JAT	9/12
CHECKED NLOI	9/12
APPROVED	
ACCEPTED	

**N.L. Olson & Associates, Inc.**  
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LANDSCAPING PLAN 6

City of Port Orchard Pedestrian Enhancement Project  
Mosquito Fleet Trail

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FOR:

**City of Port Orchard**  
216 Prospect Street  
Port Orchard, WA 98366

SCALE: 1"= 20'  
DATE: Sep. 12, 2012  
DRAWING NUMBER  
**097337-407265**  
SHEET L1.5