OCT 29 2007 12:02:42 PLOT/UPDATE:

## BREMERTON NAVAL COMPLEX BREMERTON, WASHINGTON

TASK ORDER NO. 31

CONTRACT # N68711-04-D-1104

	DRAWING LIST	
DWG NO.	TITLE	SHEET NO.
0031CS01	TITLE SHEET AND DRAWING LIST	SHEET 1 OF 9
0031CS01	VICINITY AND SITE LOCATION	SHEET 2 OF 9
0031GP01	ARMOR ROCK PLAN	SHEET 3 OF 9
0031XS01	CROSS SECTIONS A, B & C	SHEET 4 OF 9
0031XS01	CROSS SECTIONS D & E	SHEET 5 OF 9
0031XS01	CROSS SECTIONS F & G	SHEET 6 OF 9
0031XS01	CROSS SECTIONS H & I	SHEET 7 OF 9
0031DT01	TYPICAL SECTION AND DETAILS	SHEET 8 OF 8
0031DT02	VEGETATION PLAN	SHEET 9 OF 9

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10/20/2007	10/5/2007	10/1/2007	DATE
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TSB	TSB	1SB	ВΥ
LSB	AG H	LSBC	오
SO	so	S0	APPROVED

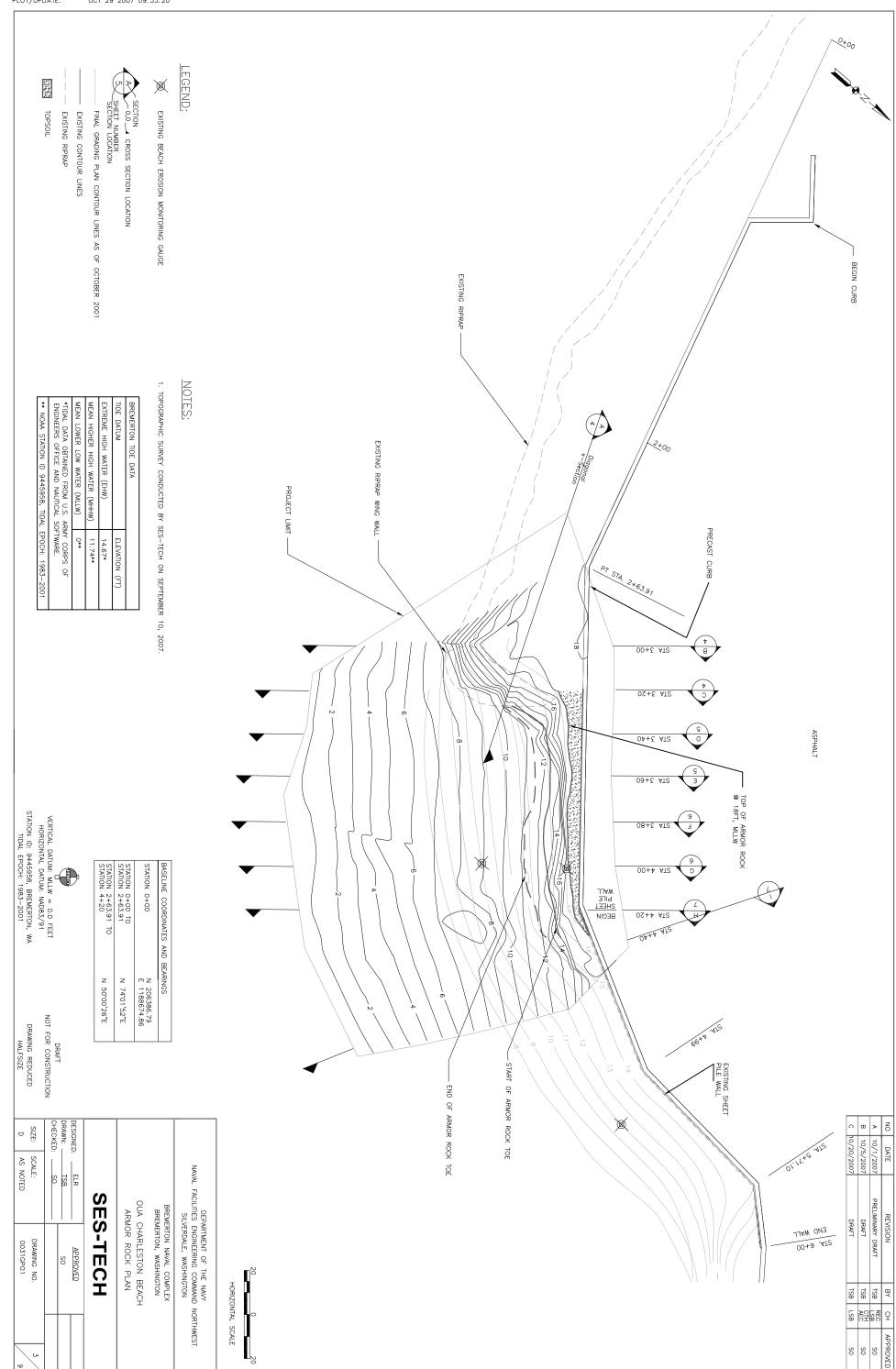
DRAWING REDUCED HALFSIZE	DRAFT NOT FOR CONSTRUCTION
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SIZE	DESIGNED: DRAWN: CHECKED:		
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DRAWING NO. 0031CS01	APPROVED SO	SES-TECH	TITLE SHEET AND DRAWING LIST
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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND NORTHWEST
SILVERDALE, WASHINGTON

BREMERTON NAVAL COMPLEX BREMERTON, WASHINGTON





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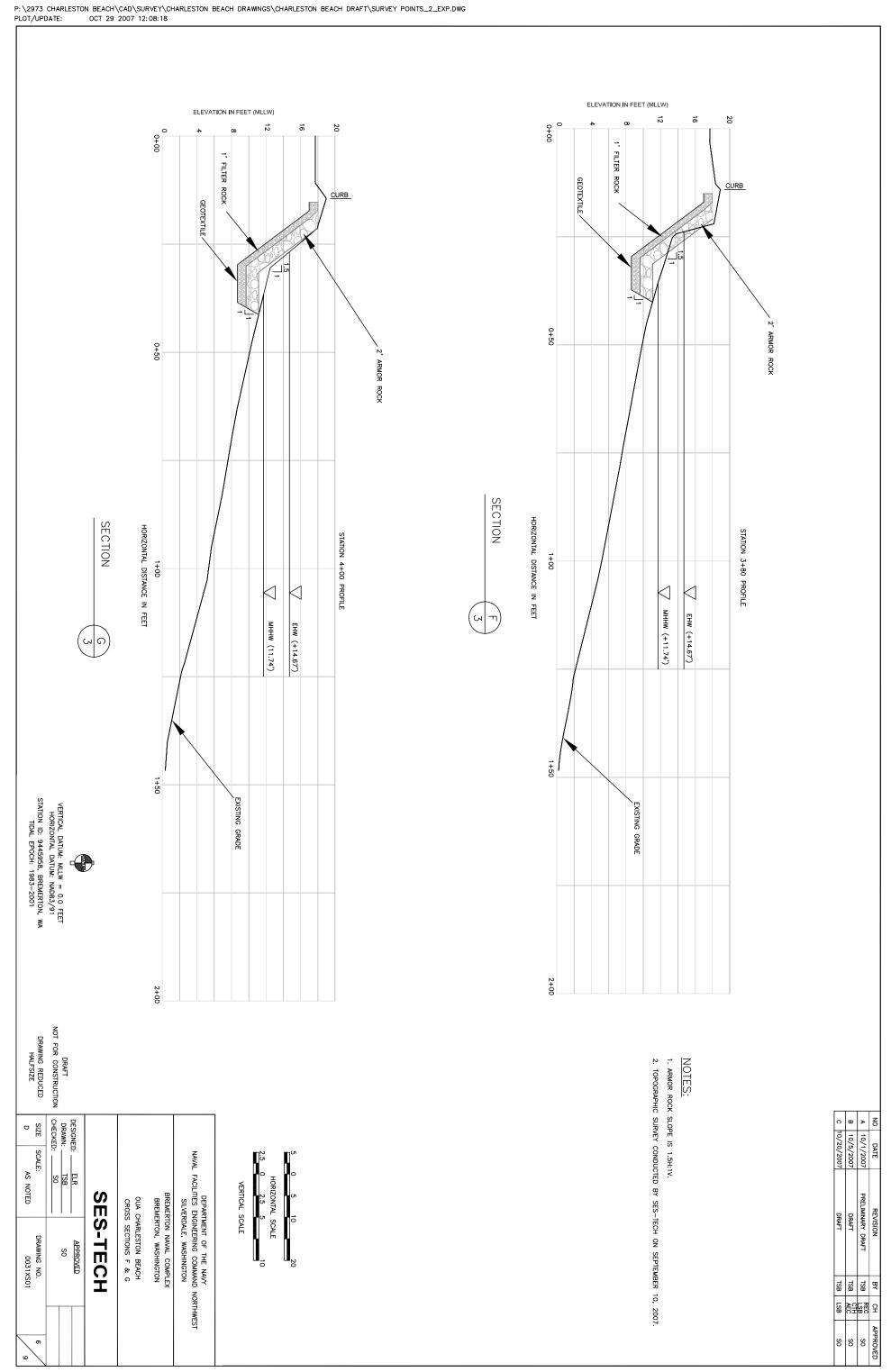
DRAWING NO. 0031XS01

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 $P: \verb|\| 2973 | CHARLESTON | BEACH | CAD | SURVEY | CHARLESTON | BEACH | DRAWINGS | CHARLESTON | BEACH | DRAWINGS | CHARLESTON | BEACH | DRAWINGS | DRAWINGS | CHARLESTON | BEACH | DRAWINGS | DRAWIN$ PLOT/UPDATE: OCT 29 2007 12:06:39 ELEVATION IN FEET (MLLW) ELEVATION IN FEET (MLLW) 0+00 20 20 0+00 FILTER FILTER ROCK ROCK GEOTEXTILE CURB CURB 2' ARMOR ROCK 0+50 0+50 MHHW (+11.74') EHW (+14.67') SECTION SECTION HORIZONTAL DISTANCE IN FEET HORIZONTAL DISTANCE IN FEET STATION 3+40 PROFILE STATION 3+60 PROFILE 1+00 1+00 EHW (+14.67') MHHW (+11.74') EXISTING GRADE VERTICAL DATUM: MLLW = 0.0 FEET HORIZONTAL DATUM: NADB3/91 STATION ID: 9445958, BREMERTON, WA TIDAL EPOCH: 1983-2001 1+50 1+50 EXISTING GRADE 2+00 DRAFT
NOT FOR CONSTRUCTION DRAWING REDUCED
HALFSIZE NOTES: 1, NEW ARMOR ROCK STARTS AT STATION 3+30, EXISTING RIPRAP AND THE NEW ARMOR ROCK WILL BE TRANSITIONED BETWEEN STATION 3+20 AND STATION 3+30. TRANSITION ZONE WILL INCLUDE GEOTEXTILE, FILTER ROCK (MINIMUM 1 FT THICKNESS), AND ARMOR ROCK (MINIMUM 2 FT THICKNESS). 2. ARMOR ROCK SLOPE IS 1.5H:1V. 3. TOPOGRAPHIC SURVEY CONDUCTED BY SES-TECH ON SEPTEMBER 10, 2007. DESIGNED: ELR
DRAWN: TSB
CHECKED: S0 SIZE SCALE: DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND NORTHWEST
SILVERDALE, WASHINGTON AS NOTED HORIZONTAL SCALE
0 2.5 5 10 VERTICAL SCALE BREMERTON NAVAL COMPLEX BREMERTON, WASHINGTON **SES-TECH** OUA CHARLESTON BEACH CROSS SECTIONS D & E

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10/20/2007	10/5/2007	10/1/2007	DATE
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P:\2973 CHARLESTON BEACH\CAD\SURVEY\CHARLESTON BEACH DRAWINGS\CHARLESTON BEACH DRAFT\SURVEY POINTS\_2\_EXP.DWG PLOT/UPDATE: OCT 29 2007 09:56:06 ELEVATION IN FEET (MLLW) ELEVATION IN FEET (MLLW) 20 16 20 0+00 0+00 CURB FILTER CURB ROCK GEOTEXTILE 2' ARMOR ROCK 0+50 SECTION SECTION HORIZONTAL DISTANCE IN FEET HORIZONTAL DISTANCE IN FEET STATION 4+20 PROFILE STATION 4+40 PROFILE 1+00 1+00 MHHW (+11.74') EHW (+14.67') MHHW (+11.74') EHW (+14.67') EXISTING VERTICAL DATUM: MLLW = 0.0 FEET HORIZONTAL DATUM: NADB3/91 STATION ID: 9445958, BREMERTON, WA TIDAL EPOCH: 1983-2001 GRADE 1+50 1+50 EXISTING GRADE 2+00 DRAFT NOT FOR CONSTRUCTION DRAWING REDUCED HALFSIZE NOTES: 3. EXISTING SHEET PILE WALL STARTS AT STATION 4+20. 4. ARMOR ROCK WALL THICKNESS WILL BE REDUCED GRADUALLY STARTING AT STATION 4+00 AND TRANSITION WITH THE EXISTING GRADE BETWEEN STATION 4+00 TO STATION 4+25. 2. TOPOGRAPHIC SURVEY CONDUCTED BY SES-TECH ON SEPTEMBER 10, 2007. 1. ARMOR ROCK SLOPE IS 1.5H:1V. DESIGNED: ELR
DRAWN: TSB
CHECKED: S0 NO DATE
A 10/1/2007
B 10/5/2007
C 10/20/2007 SIZE SCALE:

D AS NOTED DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND NORTHWEST
SILVERDALE, WASHINGTON HORIZONTAL SCALE

2.5 5 10 VERTICAL SCALE **SES-TECH** BREMERTON NAVAL COMPLEX BREMERTON, WASHINGTON PRELIMINARY DRAFT OUA CHARLESTON BEACH CROSS SECTIONS H & I

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DRAWING NO. 0031DT01

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P:\2973 CHARLESTON BEACH\CAD\SURVEY\CHARLESTON BEACH WITH OUT TOE PROTECTION\LAST REV CHARLESTON BEACH\PLAN VIEW WITH TRANSECTS-VEGETATION.DWG OCT 29 2007 14:59:23 AREA AREA 2 =  $\sim$ 130 SQFT AREA 1 = LEGEND: EVERGREEN RED-FLOWERING CURRANT (Ribes sanguineum) W RED ELDERBERRY (Sambucus racemosa) DOUGLAS—FIR (Pseudotsuga menziesii) KINNIKINNIK (Arctostaphylos uva—ursi) ~376 OCEANSPRAY (Holodiscus discolor) THIMBLEBERRY (Rubus parviflorus) 71 HUCKLEBERRY (Vaccinium ovatum) SQFT MAPLE (Acer VEGETATION PLANTING AREA TOPSOIL AREA macrophyllum) PLAN BEGIN CURB GROUND COVER SHRUB SHRUB SHRUB HABITAT TREE TREE PLANT 긔 긔 GAL. GA. GAL GAL. GAL GAL TREES TREES POT POT POT POT POT POT 13 40 ₫ 9 9  $\infty$ 9 PLANTING = Çī AREA 5 TOTAL 51 33 9 13 4 10 PRECAST CURB PT STA. 2+63.91 6. OTHER PLANT OPTIONS (BASED ON AVAILABILITY):
PLANT AREA 1: BITTER CHERRY (Prunus emarginata, 6 FT TREE) AND ORECON
OAK (Quercus garryana, 6 FT TREE)
PLANT AREA 2: WESTERN GRAB-APPLE (Malus fusca, 1 GAL POT) 2. FEATURE EVERGREEN HUCKLEBERRY ON THE PARKING LOT SIDE OF PLANTING AREAS 1 AND 3. 7. PLACE APPROXIMATELY 3 FEET OF TOPSOIL. REDUCE THICKNESS AS REQUIRED TO MATCH TOP OF CURB AND TAPER TO MATCH TOP OF RIPRAP. 5. ACTUAL VEGETATION QUANTITIES MAY BE MODIFIED BASED ON THE ACTUAL VEGETATION THAT CAN BE REUSED AND THE VEGETATION THAT IS LOCALLY AVAILABLE AT THE TIME OF CONSTRUCTION. 4. WOODY DEBRIS IMPACTED BY THE ARMOR ROCK WALL CONSTRUCTION WILL BE REPOSITIONED ALONG IN FRONT OF THE EXISTING SHEET PILE WALL AT APPROXIMATE ELEVATION  $\pm 14$  MLLW. 3. AS MUCH AS POSSIBLE, PRESERVE EXISTING VEGETATION.  $\overline{\text{NOTES}}$ :

1. PLANT SPACING IS 9' FOR TREES, 3' FOR SHRUBS, AND 2' FOR KINNIKINNIK. 10 WHITE VERTICAL DATUM: MLLW = 0.0 FEET HORIZONTAL DATUM: NADB3/91 STATION ID: 9445958, BREMERTON, WA TIDAL EPOCH: 1983-2001 TOP OF ARMOR ROCK @ 18FT, MLLW START OF ARMOR ROCK TOE NOT FOR CONSTRUCTION END OF ARMOR ROCK TOE DRAWING REDUCED
HALFSIZE DRAFT DESIGNED: ER
DRAWN: TSB
CHECKED: SO SIZE SCALE: 10/20/2007 10/5/2007 END CURB DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NORTHWEST SILVERDALE, WASHINGTON AS NOTED PRELIMINARY DRAFT
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DRAFT **SES-TECH** BREMERTON, WASHINGTON OUA CHARLESTON BEACH VEGETATION PLAN DRAWING NO. 0031DT02 APPROVED SO HORIZONTAL SCALE BY CH AF

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