

The FOX logo is prominently displayed in the upper left quadrant. It features the word "FOX" in a bold, sans-serif font, with the letters "F", "O", and "X" stacked vertically. The letter "X" is stylized with a small gap in the middle. The logo is set against a dark, textured background that resembles a crescent moon or a stylized "C" shape.

UNILATERAL ADMINISTRATIVE ORDER
U.S. EPA DOCKET NO. CERCLA 10 - 2002 - 0064

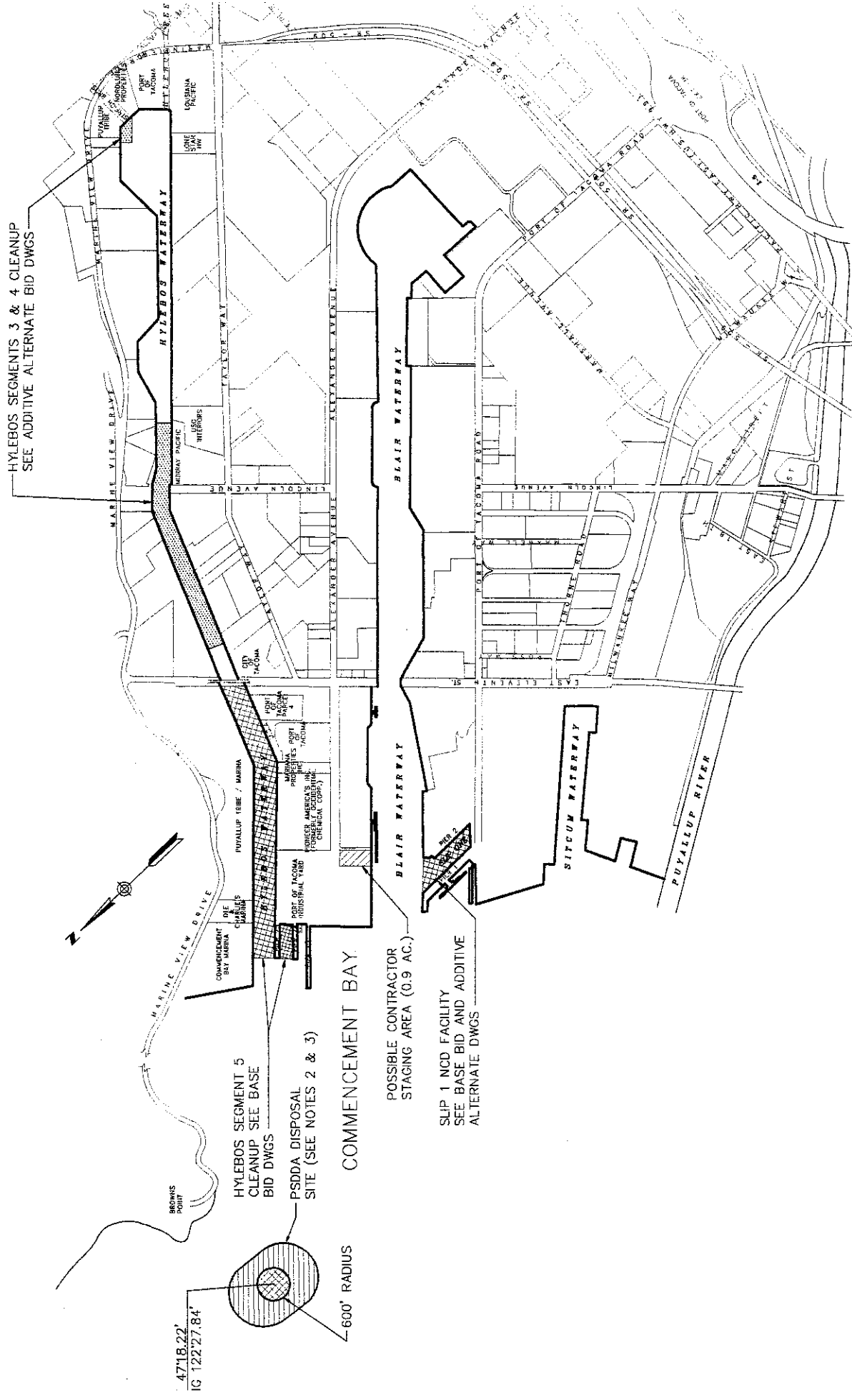
No.	Name	Age	Sex	Profession	Address	Date
7	Mrs. J. H. Smith	45	F	Teacher	100 N. Main St., Chicago, Ill.	Jan. 1, 1902

BASE BID DRAWING LIST

Hylebos Waterway Cleanup - Segment 5 & Slip 1 NCD Facility		
Sheet No.	Drawing No.	Description
1	G-1	Cover Sheet
2	G-2	Drawing List & Project Location Map
3	C-1	Project Site Plan
4	C-2	Project Control Plan
5	C-3	Water Quality Monitoring Plan
6	C-4	Construction Sequencing Plan
7	C-5	Hylebos Waterway Dredge Plan - Sheet 1
8	C-6	Hylebos Waterway Dredge Plan - Sheet 2
9	C-7	Hylebos Waterway Dredge Plan - Sheet 3
10	C-8	Hylebos Waterway Dredge Details
11	C-9	Hylebos Waterway Slope Protection Plan & Details
12	C-10	Hylebos Waterway Sediment Capping Details
13	C-11	Hylebos Waterway Sections - Sheet 1
14	C-12	Hylebos Waterway Sections - Sheet 2
15	C-13	Hylebos Waterway Sections - Sheet 3
16	C-14	Hylebos Waterway Sections - Sheet 4
17	C-15	Hylebos Waterway Sections - Sheet 5
18	C-16	Hylebos Waterway Sections - Sheet 6
19	C-17	Slip 1 NCD Facility Site Plan
20	C-18	Slip 1 NCD Facility Containment Berm Plan - Stage II
21	C-19	Slip 1 NCD Facility Containment Berm Details - Sheet 1
22	C-20	Slip 1 NCD Facility Containment Berm Details - Sheet 2
23	C-21	Slip 1 NCD Facility Fill Placement Plan
24	C-22	Slip 1 NCD Facility Sections

ADDITIVE ALTERNATE BID DRAWING LIST

Hylebos Waterway Cleanup - Segments 3 & 4		
Sheet No.	Drawing No.	Description
1	G-1A	Cover Sheet
2	G-2A	Drawing List & Project Location Map
3	C-1A	Project Site Plan
4	C-2A	Project Control Plan
5	C-3A	Hylebos Waterway Remediation Plan - Sheet 1
6	C-4A	Hylebos Waterway Remediation Plan - Sheet 2
7	C-5A	Hylebos Waterway Remediation Plan - Sheet 3
8	C-6A	Hylebos Waterway Remediation Plan - Sheet 4
9	C-7A	Hylebos Waterway Sections - Sheet 1
10	C-8A	Hylebos Waterway Sections - Sheet 2
11	C-9A	Slip 1 NCD Facility Demolition Plan
12	C-10A	Slip 1 NCD Facility Demolition Details
13	C-11A	Slip 1 NCD Facility Fill & Primary Capping Plan
14	C-12A	Slip 1 NCD Facility Sections
15	C-13A	Slip 1 NCD Facility Settlement Monitoring Plan

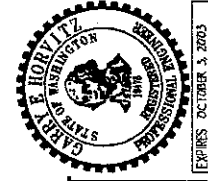


LEGEND

	BASE BID PROJECT LOCATION (SEGMENT 5)
	ADDITIVE ALTERNATE BID PROJECT LOCATION (SEGMENTS 3 & 4)
	POSSIBLE CONTRACTOR STAGING AREA

NOTES:

1. INFORMATION SHOWN ON THIS DRAWING WAS DEVELOPED FROM PORT OF TACOMA DRAWING EP-4137-20, DATED 4/4/95.
2. PSDDA DISPOSAL SITE LONG/LAT SHOWN FROM U.S. ARMY ENGINEER DISTRICT, SEATTLE CORPS OF ENGINEERS, BLAIR WATERWAY CHANNEL DEEPENING DWG. E-3-6-58 SHEET 1 OF 5 DATED JULY 21, 1999. HORIZONTAL DATUM NAD 27.
3. THE PSDDA DISPOSAL SITE IS SHOWN CLOSER THAN THE ACTUAL SITE DISTANCE.
4. THE CONTRACTOR MUST COORDINATE WITH THE PORT OF TACOMA FOR USE OF POSSIBLE CONTRACTOR STAGING AREAS SHOWN HEREON.



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**HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT
DRAWING LIST & PROJECT LOCATION MAP**

1"=1250'

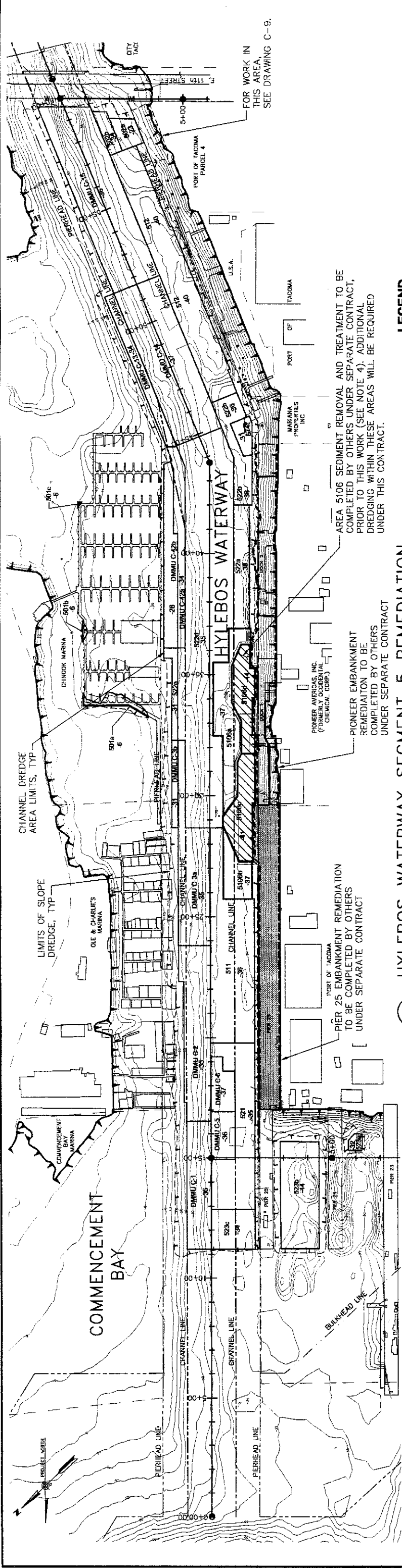


0 1250 2500
feet

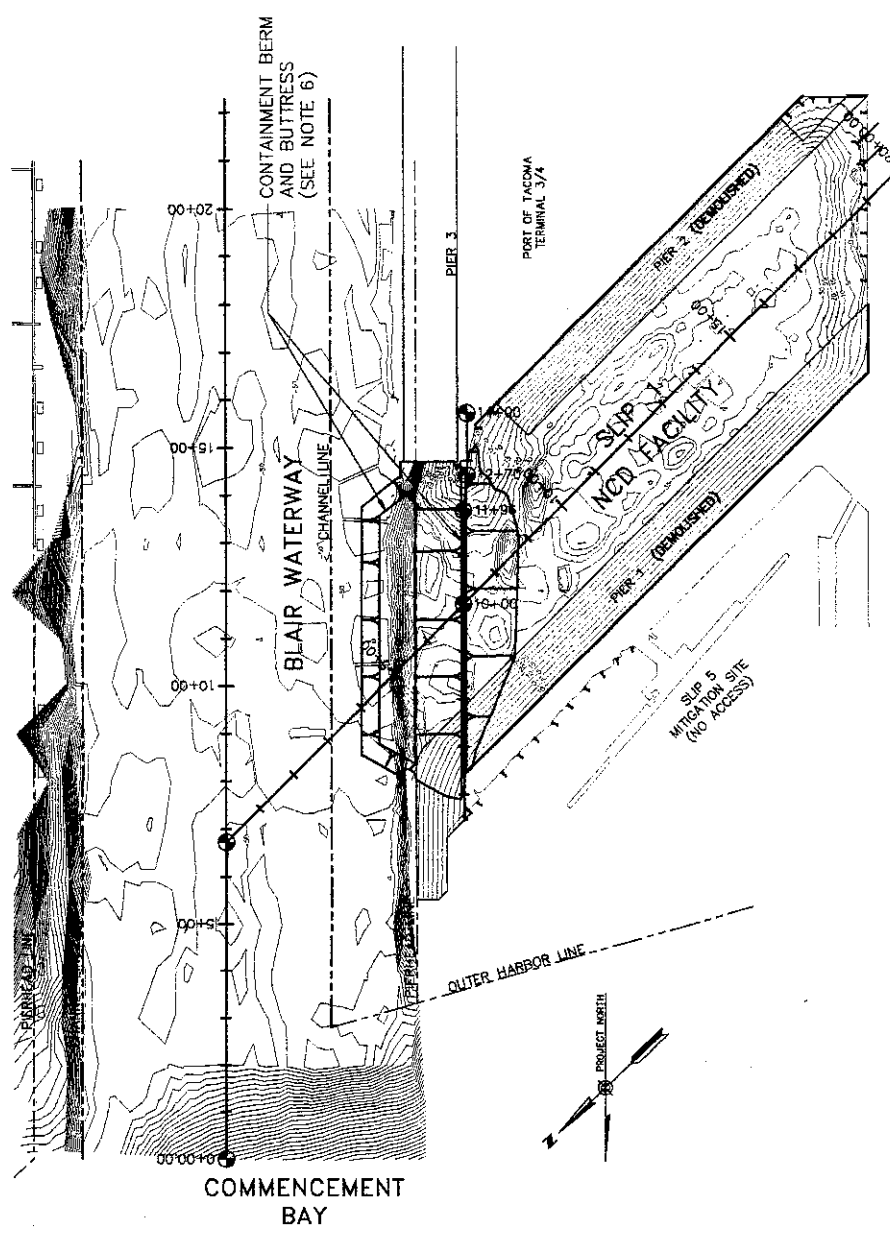
scale

BASE BID
Y 22, 2003

DRAWING NO.	G-2
CONTRACT NO.	
SHEET NO.	2 OF 24



1 HYLEBOS WATERWAY SEGMENT 5 REMEDIATION
SCALE: 1" = 200'

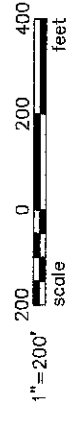


2 SLIP 1 NEARSHORE CONFINED DISPOSAL FACILITY
SCALE: 1" = 200'

- LEGEND**
- SLOPE CAPPING UNDER PIER 25 BY OTHERS
 - DREDGING COMPLETED BY OTHERS (SEE NOTE 4)
 - DREDGE AREA DESIGNATED FOR PSDA DISPOSAL
 - DREDGE AREA DESIGNATED FOR NCD FACILITY DISPOSAL
 - TOP OF BANK
 - CHANNEL LINE
 - PIERHEAD LINE
 - EXIST WATER MAIN

NOTES:

- BATHYMETRY, STRUCTURE OUTLINES, CHANNEL LINES, STATIONING AND DREDGE AREAS PROVIDED BY ANCHOR ENVIRONMENTAL, L.L.C.
- PROPERTY OWNERSHIPS FROM PORT OF TACOMA DWG. EP-4137-20, DATED 4/4/95.
- BULKHEAD, PIERHEAD AND CHANNEL LINES FROM C.O.E. DWGS. E-3-2-110 DATED FEB. 4, 1986.
- MODIFIED CONTOURS IN DREDGE AREA 5106 PROVIDED BY ANCHOR ENVIRONMENTAL, L.L.C. CONTOURS SHOWN REFLECT CONDITIONS TO BE IN PLACE FOR THIS CONTRACT (PREVIOUSLY DREDGED BY OTHERS UNDER SEPARATE CONTRACT).
- SEE DWG. C-2 FOR PROJECT CONTROL PLAN.
- STAGE 1 BERM CONSTRUCTION TO EL. -5.0 FEET AND TEMPORARY BUTTRESS HAVE BEEN COMPLETED BY OTHERS UNDER SEPARATE CONTRACT PRIOR TO THIS WORK.



BASE BID
JANUARY 22, 2003

	CONSULTANTS: HART CROWDER, INC. BERGER/ABRAM ENGINEERS INC. ANCHOR ENVIRONMENTAL, L.L.C.	PROJECT SITE PLAN	HYLEBOS WATERWAY CLEANUP AND SLIP 1 NCD FACILITY PROJECT	DRAWING NO. C-1 CONTRACT NO. SHEET NO. 3 OF 24
	GLENN SPRINGS HOLDINGS, INC. 2480 Fortune Drive, Suite 300 Lexington, KY 40509 (606) 543-2153 FAX:(606) 543-2172	REVISION BY APP. DATE	MARK DATE	RTK PROJ ENGR DATE

NOTES:

1. BATHYMETRY STRUCTURE OUTLINES, CHANNEL LINES, AND STATIONING PROVIDED BY ANCHOR ENVIRONMENTAL, L.L.C.
2. HORIZONTAL CONTROL SHOWN IS NAD83.
3. VERTICAL CONTROL IS NOS, MLLW = 0.00
4. PROPERTY OWNERSHIPS SHOWN ARE FROM PORT OF TACOMA DWG EP-4137-20, DATED 4/4/95.
5. STORM WATER OUTFALLS UNDER PIER 25 SHOWN ARE SCALED FROM U.S.N DWG 631.647, DATED 3/1/1953; PORT OF TACOMA DWG EP-4815-12, DATED 10/11/1995; AND PORT OF TACOMA DWG EP-5114-12, DATED 4/17/1998.
6. DREDGE AREAS PROVIDED BY ANCHOR ENVIRONMENTAL, L.L.C. SUBMITTAL DATED 04-03-01; REVISED BY HART CROWSER & BERGER/ABAM ENGINEERS.
7. BULKHEAD, PIERHEAD & CHANNEL LINES SHOWN FROM C.O.E. DWG E-3-2-110 DATED FEB 4, 1986.
8. OUTFALL LOCATIONS NOT OTHERWISE MENTIONED ARE SCALED FROM PIERCE Co. HEALTH DEPARTMENT DWG, DATED 1995.
9. ADDITIONAL OUTFALLS & STRUCTURES HAVE BEEN ADDED FROM FIELD RECONNAISSANCE, WINTER 2000.
10. ANY PILES FOUND THAT INTERFERE WITH DREDGING SHALL BE PULLED AND DISPOSED OF IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
11. SEE DWG C-2 FOR PROJECT CONTROL.

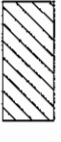
LEGEND



SUITABLE FOR PSDDA DISPOSAL



SLIP | NCD DISPOSAL

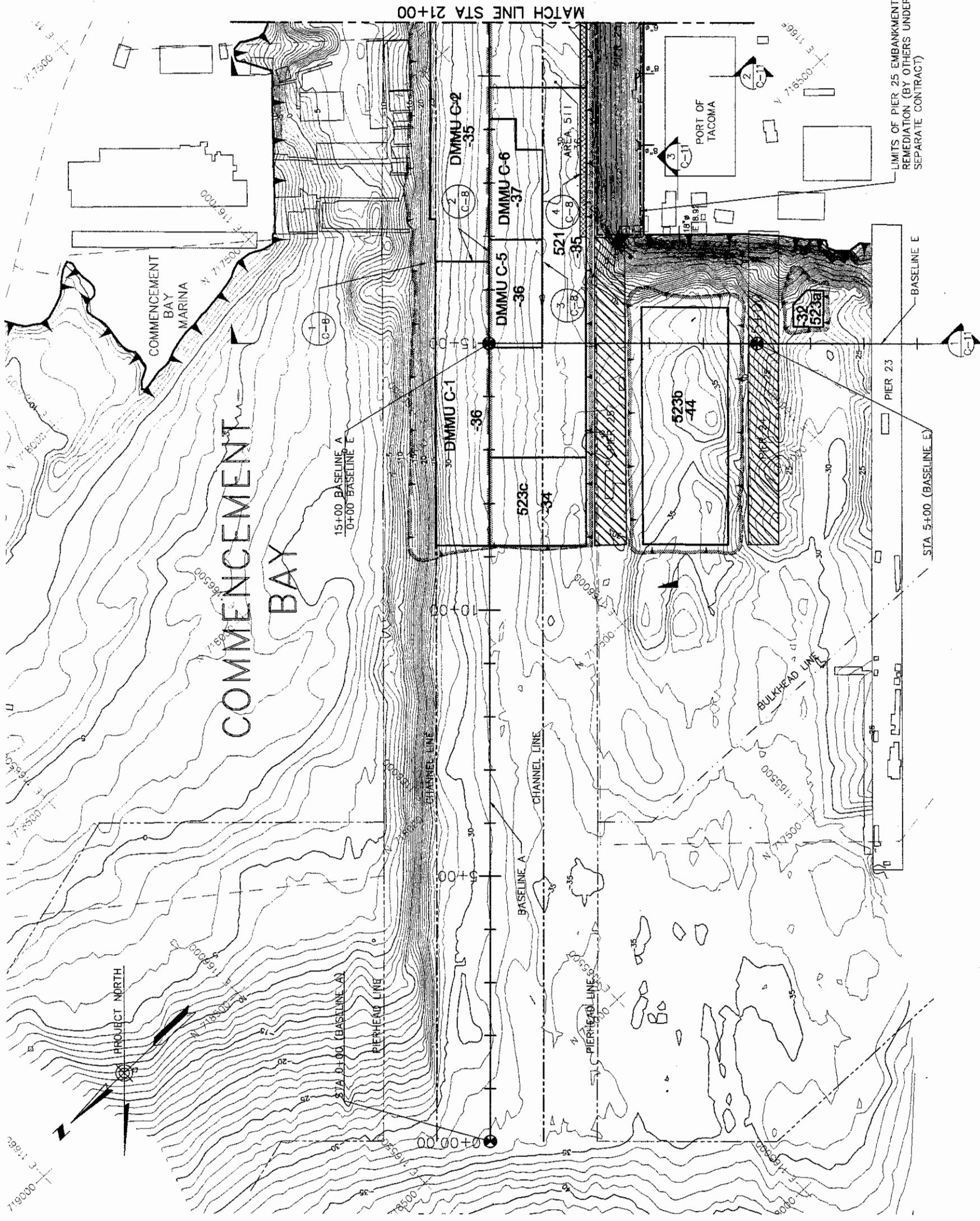
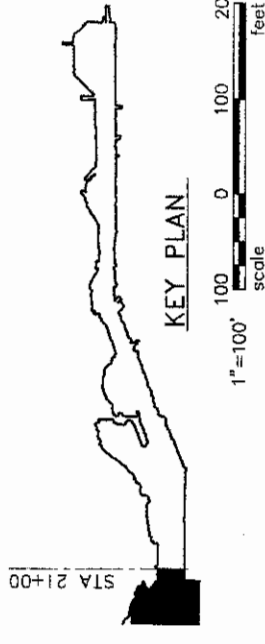


POTENTIAL SEDIMENT CAPPING AREA
(SEE DWG C-10)

DREDGE AREA DESIGNATED FOR PSDDA DISPOSAL

521 DREDGE AREA DESIGNATED FOR SLIP | NCD DISPOSAL

-36 REQUIRED FINAL DREDGED ELEVATION



EXPIRES OCTOBER 3, 2003

CONSULTANTS:
HART CROWSER, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.

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**HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT
HYLEBOS WATERWAY DREDGE PLAN
SHEET 1**

MDB	-	RDD	-
DRAWN BY	DATE	CHECK BY	DATE
RTK	-	RTK	-
DESIGN BY	DATE	PROJ ENGR	DATE
		REVISION	BY
			DATE

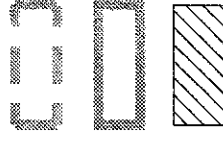
BASE BID
JANUARY 22, 2003

DRAWING NO. **C-5**
CONTRACT NO. _____
SHEET NO. **7** OF _____

NOTES:

1. BATHYMETRY STRUCTURE OUTLINES, CHANNEL LINES, AND STATIONING PROVIDED BY ANCHOR ENVIRONMENTAL, L.L.C.
2. HORIZONTAL CONTROL SHOWN IS NAD83.
3. VERTICAL CONTROL IS NOS, MLLW = 0.00
4. PROPERTY OWNERSHIPS SHOWN ARE FROM PORT OF TACOMA DWG EP-4137-20, DATED 4/4/95.
5. DREDGE AREAS PROVIDED BY ANCHOR ENVIRONMENTAL, L.L.C. REVISED BY HARD CROWSER & BERGER/ABAM ENGINEERS.
6. BULKHEAD, PIERHEAD & CHANNEL LINES SHOWN FROM C.O.E. DWG E-3-2-110 DATED FEB 4, 1986.
7. EXISTING POWERLINE OVER CROSSING LOCATED FROM HYLEBOS_ALL_SURVEY.DWG, AND VERIFIED WITH CITY OF TACOMA DRAWINGS PROVIDED 2/17/2000. MIN CLEARANCE IS 160' AT EHW, PER CITY OF TACOMA LETTER DATED 9/27/1995.
8. EXISTING BRIDGE CONTROL CABLE SCALED FROM CITY OF TACOMA REF DRAWING OF ORIGINAL PLANS DATED 2/17/1938, SHEET 2 OF 53.
9. EXISTING 16" I.D. (1/2" WALL) STEEL WATER MAIN PER CITY OF TACOMA DRAWING 10-96 DATED 9/12/1947 (AS BUILT)
10. OUTFALL LOCATIONS NOT OTHERWISE MENTIONED ARE SCALED FROM PIERCE Co. HEALTH DEPARTMENT DWG, DATED 1995.
11. ADDITIONAL OUTFALLS & STRUCTURES HAVE BEEN ADDED FROM FIELD RECONNAISSANCE, WINTER 2000.
12. ANY PILES FOUND THAT INTERFERE WITH DREDGING SHALL BE PULLED AND DISPOSED OF IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
13. SEE DWG C-2 FOR PROJECT CONTROL.
14. LOCATE EXISTING 16" WATER MAIN PRIOR TO DREDGING IN SMA 502a AND SMA 502b.
15. MAINTAIN A MINIMUM 20-FOOT SETBACK FROM TOP OF SLOPE TO THE EXISTING 16" WATER MAIN.

LEGEND



DMU

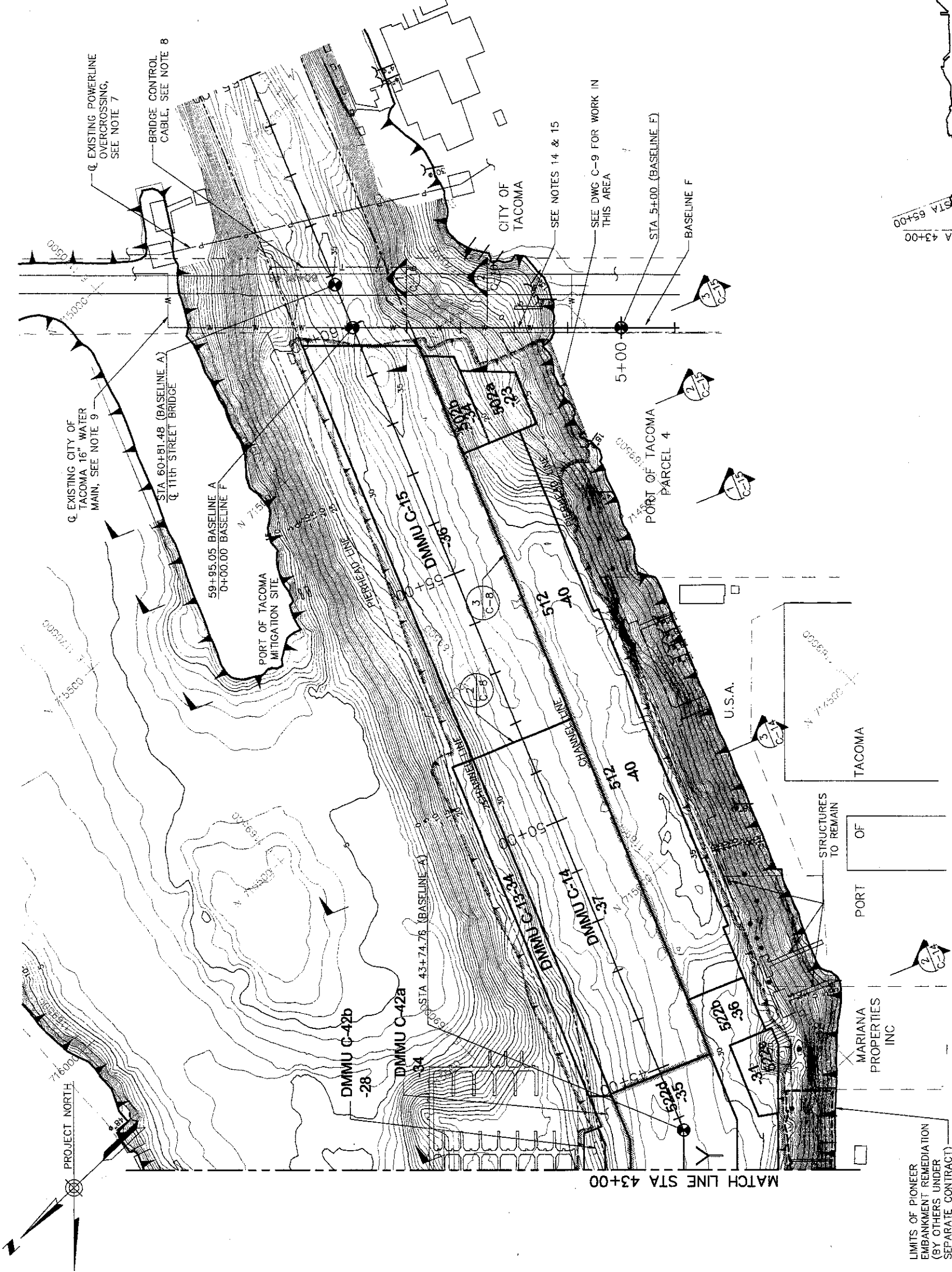
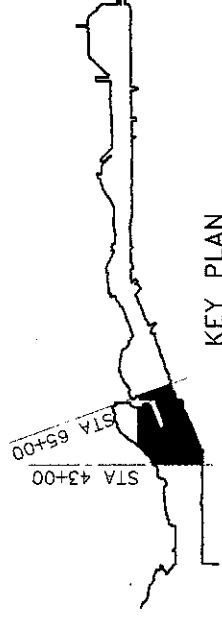
521 DREDGE AREA DESIGNATED FOR SLIP 1 NCD DISPOSAL

-36 REQUIRED FINAL DREDGED ELEVATION

EXIST WATER MAIN



KEY PLAN



GLENN SPRINGS HOLDINGS, INC.

CONSULTANTS:
HART CROWSER, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.

HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT
HYLEBOS WATERWAY DREDGE PLAN
SHEET 3

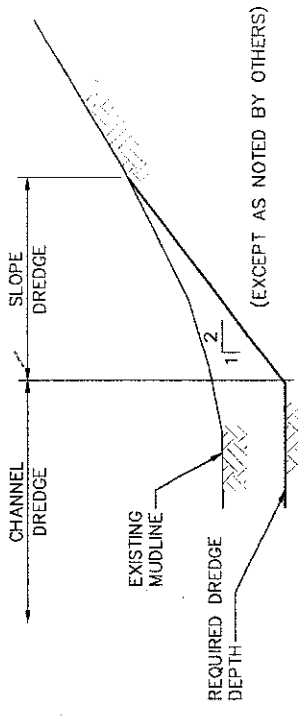
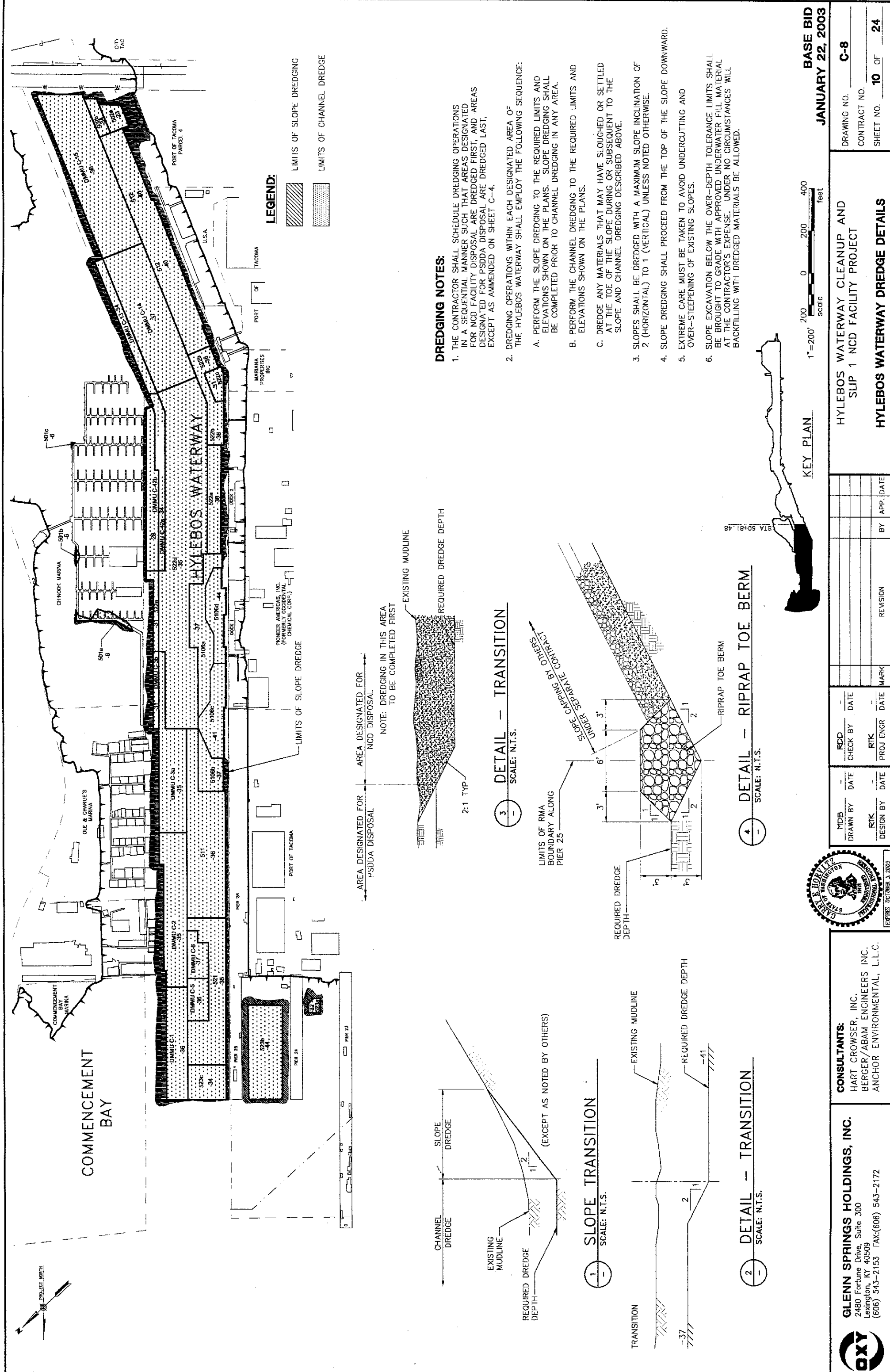
DRAWING NO. **C-7**

CONTRACT NO. _____

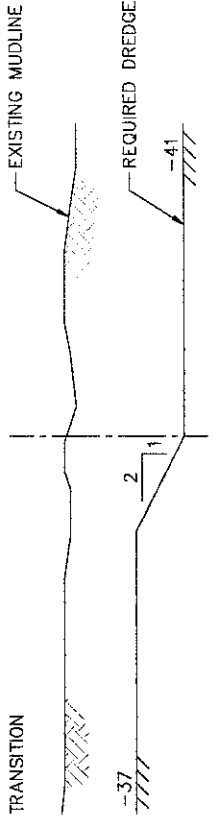
SHEET NO. **9** OF **24**

**BASE BID
JANUARY 22, 2003**

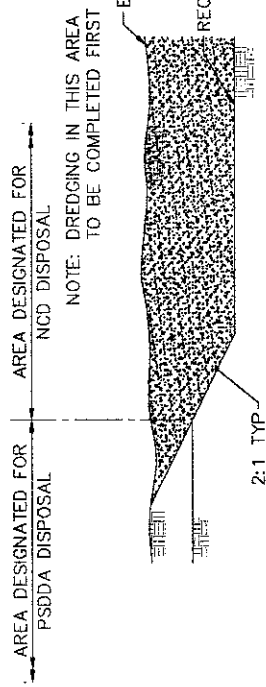
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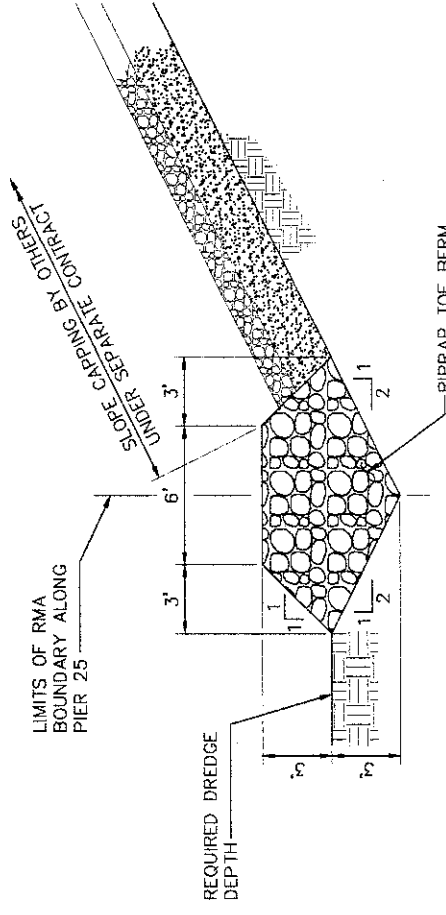
1 SLOPE TRANSITION
SCALE: N.T.S.



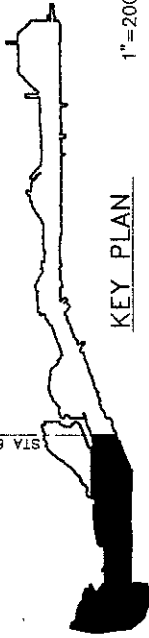
2 DETAIL - RIPRAP TOE BERM
SCALE: N.T.S.



3 DETAIL - TRANSITION
SCALE: N.T.S.



4 DETAIL - RIPRAP TOE BERM
SCALE: N.T.S.



KEY PLAN
1"=200'
Scale
0 200 400
feet

DREDGING NOTES:

1. THE CONTRACTOR SHALL SCHEDULE DREDGING OPERATIONS IN A SEQUENTIAL MANNER SUCH THAT AREAS DESIGNATED FOR NCD FACILITY DISPOSAL ARE DREDGED FIRST, AND AREAS DESIGNATED FOR PSDDA DISPOSAL ARE DREDGED LAST, EXCEPT AS AMENDED ON SHEET C-4.
2. DREDGING OPERATIONS WITHIN EACH DESIGNATED AREA OF THE HYLEBOS WATERWAY SHALL EMPLOY THE FOLLOWING SEQUENCE:
 - A. PERFORM THE SLOPE DREDGING TO THE REQUIRED LIMITS AND ELEVATIONS SHOWN ON THE PLANS. SLOPE DREDGING SHALL BE COMPLETED PRIOR TO CHANNEL DREDGING IN ANY AREA.
 - B. PERFORM THE CHANNEL DREDGING TO THE REQUIRED LIMITS AND ELEVATIONS SHOWN ON THE PLANS.
 - C. DREDGE ANY MATERIALS THAT MAY HAVE SLOUGHED OR SETTLED AT THE TOE OF THE SLOPE DURING OR SUBSEQUENT TO THE SLOPE AND CHANNEL DREDGING DESCRIBED ABOVE.
3. SLOPES SHALL BE DREDGED WITH A MAXIMUM SLOPE INCLINATION OF 2 (HORIZONTAL) TO 1 (VERTICAL) UNLESS NOTED OTHERWISE.
 1. SLOPE DREDGING SHALL PROCEED FROM THE TOP OF THE SLOPE DOWNWARD.
 2. SLOPE DREDGING SHALL PROCEED FROM THE TOP OF THE SLOPE DOWNWARD.
4. SLOPE DREDGING SHALL PROCEED FROM THE TOP OF THE SLOPE DOWNWARD.
5. EXTREME CARE MUST BE TAKEN TO AVOID UNDERCUTTING AND OVER-STEEPENING OF EXISTING SLOPES.
6. SLOPE EXCAVATION BELOW THE OVER-DEPTH TOLERANCE LIMITS SHALL BE BROUGHT TO GRADE WITH APPROVED UNDERWATER FILL MATERIAL AT THE CONTRACTOR'S EXPENSE. UNDER NO CIRCUMSTANCES WILL BACKFILLING WITH DREDGED MATERIALS BE ALLOWED.

LEGEND:

- LIMITS OF SLOPE DREDGING
- LIMITS OF CHANNEL DREDGE



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ANCHOR ENVIRONMENTAL, L.L.C.



MDB DRAWN BY	DATE	RDD CHECK BY	DATE	BY	APP.	DATE
RTK DESIGN BY	DATE	RTK PROJ ENGR	DATE	REVISION	MARK	

**HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT**
HYLEBOS WATERWAY DREDGE DETAILS

DRAWING NO. **C-8**
CONTRACT NO. _____
SHEET NO. **10** OF **24**

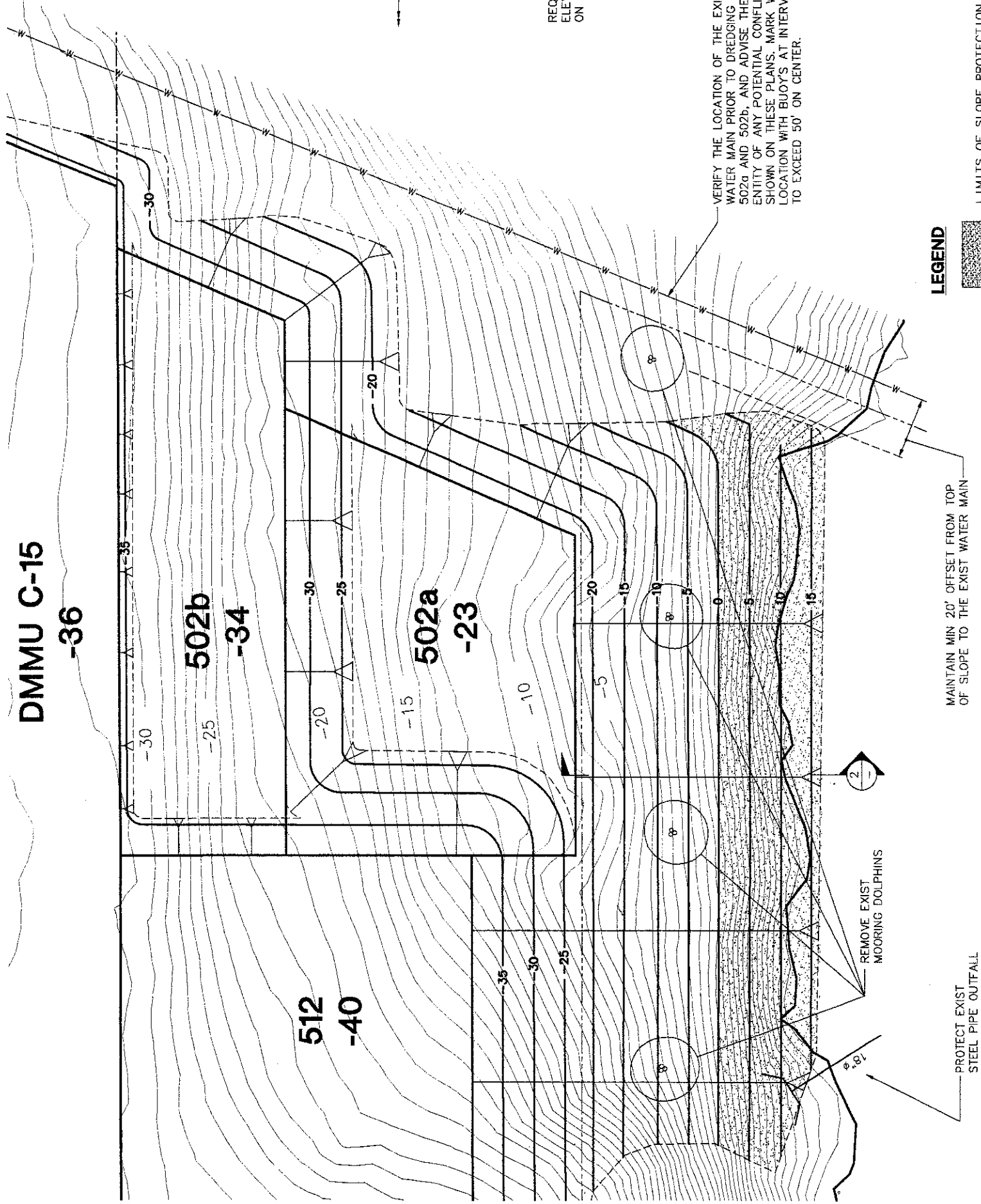
**BASE BID
JANUARY 22, 2003**

DMMU C-15
-36

502b
-34

502a
-23

512
-40



MAINTAIN MIN 20' OFFSET FROM TOP
OF SLOPE TO THE EXIST WATER MAIN

REMOVE EXIST
MOORING DOLPHINS

PROTECT EXIST
STEEL PIPE OUTFALL

VERIFY THE LOCATION OF THE EXISTING
WATER MAIN PRIOR TO DREDGING IN AREA'S
502a AND 502b, AND ADVISE THE CONTRACTING
ENTITY OF ANY POTENTIAL CONFLICTS NOT
SHOWN ON THESE PLANS. MARK WATERLINE
LOCATION WITH BUOYS AT INTERVALS NOT
TO EXCEED 50' ON CENTER.

LEGEND



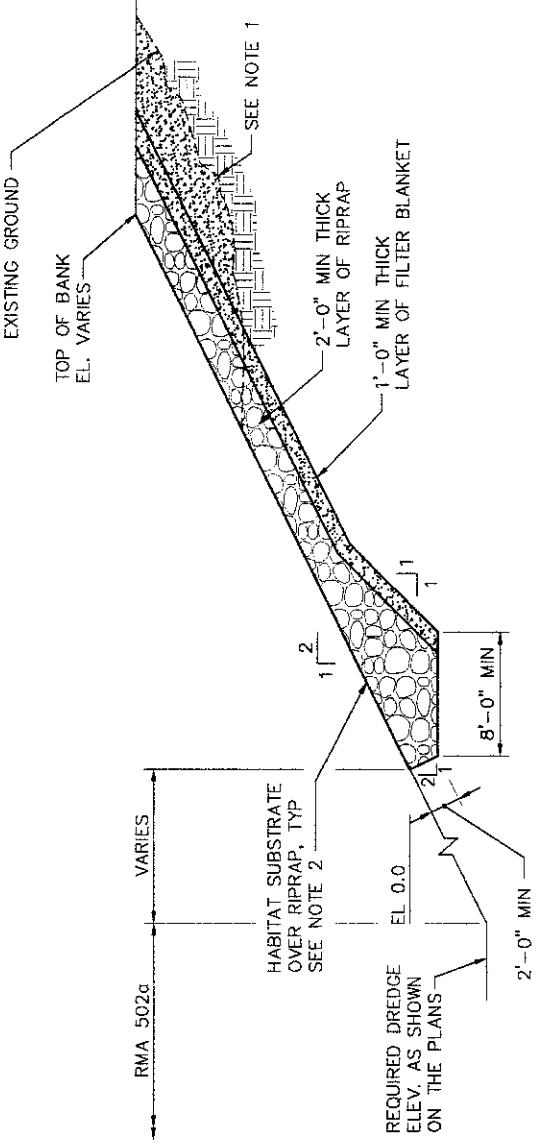
LIMITS OF SLOPE PROTECTION

W

EXIST WATER MAIN (16" STEEL)

1 PLAN - SLOPE PROTECTION
SCALE: 1" = 20'

2 DETAIL - SLOPE PROTECTION
SCALE: N.T.S.



NOTES:

- WHERE 2(H):1(V) DREDGE CUT DAYLIGHTS PRIOR TO REACHING THE TOP OF BANK, PLACE SELECT FILL TO BUILD UP DEPRESSED AREAS AS SHOWN, PRIOR TO SLOPE PROTECTION.
- PLACE HABITAT SUBSTRATE OVER RIPRAP SLOPE PROTECTION BETWEEN ELEV 0.0 AND ELEV +12.0, UNIFORMLY APPLIED AT A RATE OF 28 TONS PER 1000 S.F., FILLING THE VOIDS OF THE RIPRAP.
- TREATED TIMBER PILES SHALL BE DISPOSED OF IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.



BASE BID
JANUARY 22, 2003

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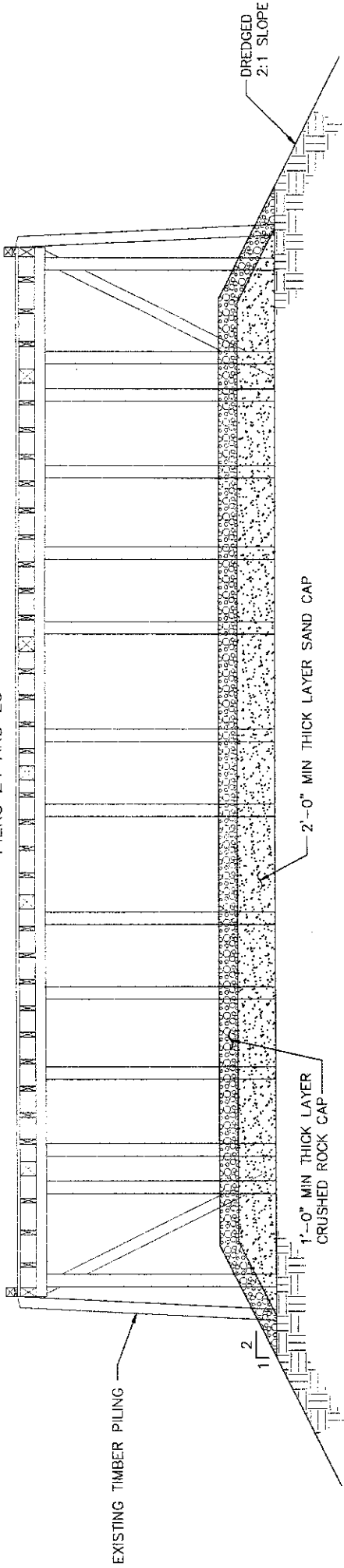


**HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT
HYLEBOS WATERWAY
SLOPE PROTECTION PLAN & DETAIL**

DATE	BY	APP	DATE
DESIGN	RTK	PROJ ENGR	DATE
CHECK	RDD	CHECK BY	DATE
REVISION	MARK	BY	DATE

DRAWING NO. **C-9**
CONTRACT NO.
SHEET NO. **11** OF **24**

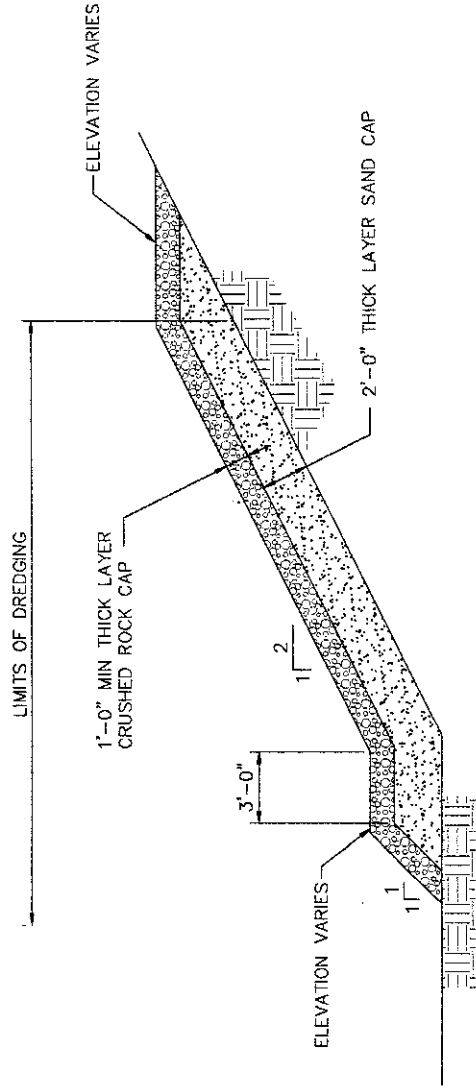
PORT OF TACOMA
PIERS 24 AND 25



1 UNDER PIER CAPPING DETAIL
SCALE: 1/4" = 1'-0"
(SEE NOTE 1)

NOTES:

1. THE NEED FOR SEDIMENT CAPPING UNDER PIERS AND ALONG THE SHORELINE SLOPES OF THE HYLEBOS WATERWAY WILL BE DETERMINED BASED ON CONFIRMATIONAL SAMPLING AND TESTING AFTER DREDGING.
2. AS-BUILT DRAWINGS OF PIERS 24 & 25 ARE AVAILABLE FROM THE PORT OF TACOMA UPON REQUEST.



2 SLOPE CAPPING DETAIL
SCALE: 1/4" = 1'-0"
(SEE NOTE 1)



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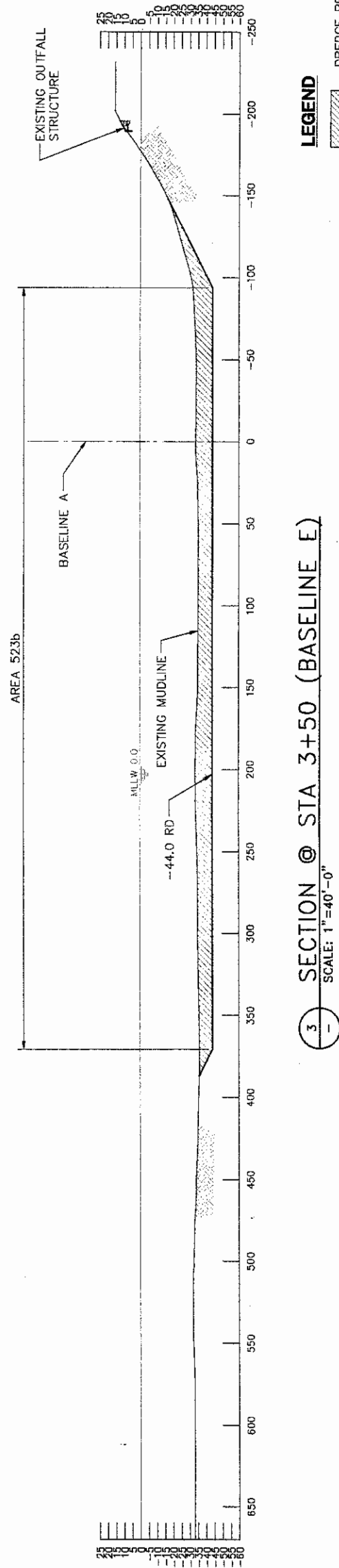
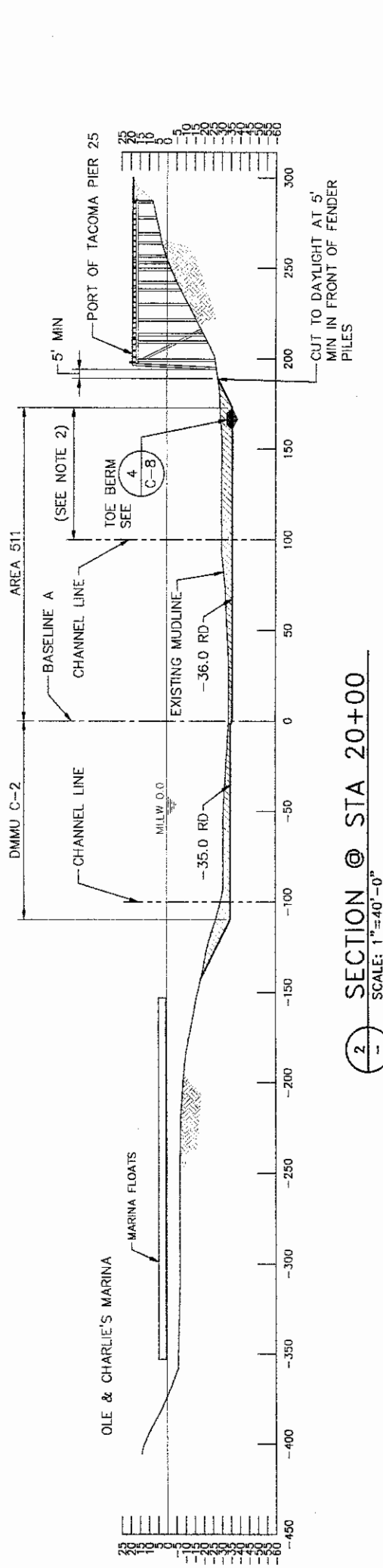
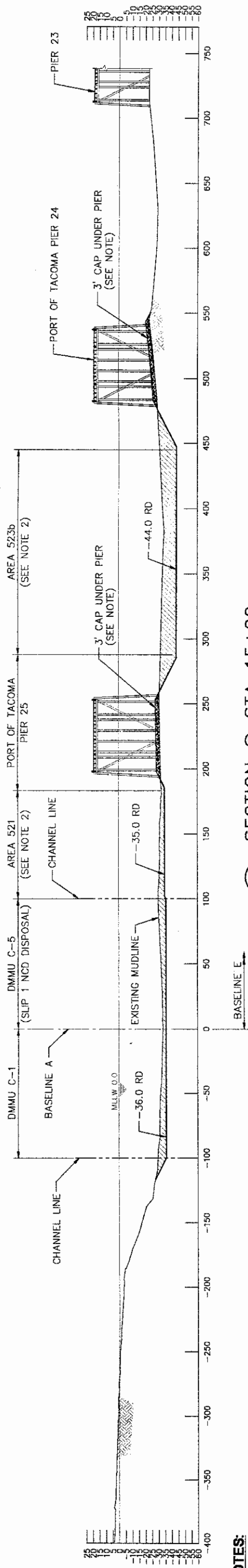


BASE BID
JANUARY 22, 2003

HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT
HYLEBOS WATERWAY
SEDIMENT CAPPING DETAILS

MDB DRAWN BY	DATE	RDD CHECK BY	DATE	BY	APP.	DATE
RTK DESIGN BY	DATE	RTK PROJ ENGR	DATE	REVISION	MARK	

DRAWING NO. C-10
CONTRACT NO.
SHEET NO. 12 OF 24



LEGEND

 DREDGE PRISM

CAP MATERIAL

REQUIRED FINAL DREDGED ELEVATION (RD)

1" = 40'

A horizontal scale bar with alternating black and white segments. It is labeled with '40' at the left end, '0' in the middle, and '80' at the right end. Below the bar, the word 'scale' is written on the left and 'feet' is written on the right.

BASE BID
JANUARY 22, 2003

OXY
GLENN SPRINGS HOLDINGS, INC.
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CONSULTANTS:
HART CROWSER, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.



<u>MDb</u>	<u>RDd</u>	<u>APp</u>	<u>DATE</u>
<u>DRAWN BY</u>	<u>CHECK BY</u>	<u>BY</u>	<u>DATE</u>
<u>RTK</u>	<u>RTK</u>	<u>REVISION</u>	<u>DATE</u>
<u>DESIGN BY</u>	<u>PROJ ENGR</u>	<u>MARK</u>	<u>DATE</u>

HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT
HYLEBOS WATERWAY SECTIONS
SHEET 1

DRAWING NO. **C-11**
CONTRACT NO. _____
SHEET NO. **13** OF **24**

LEGEND

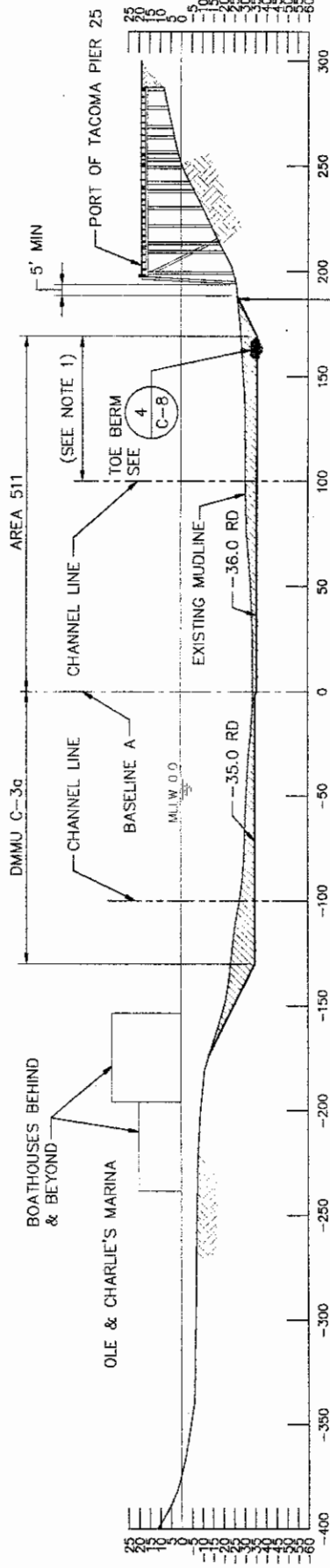
DREDGE PRISM

REQUIRED FINAL DREDGED ELEVATION (RD)

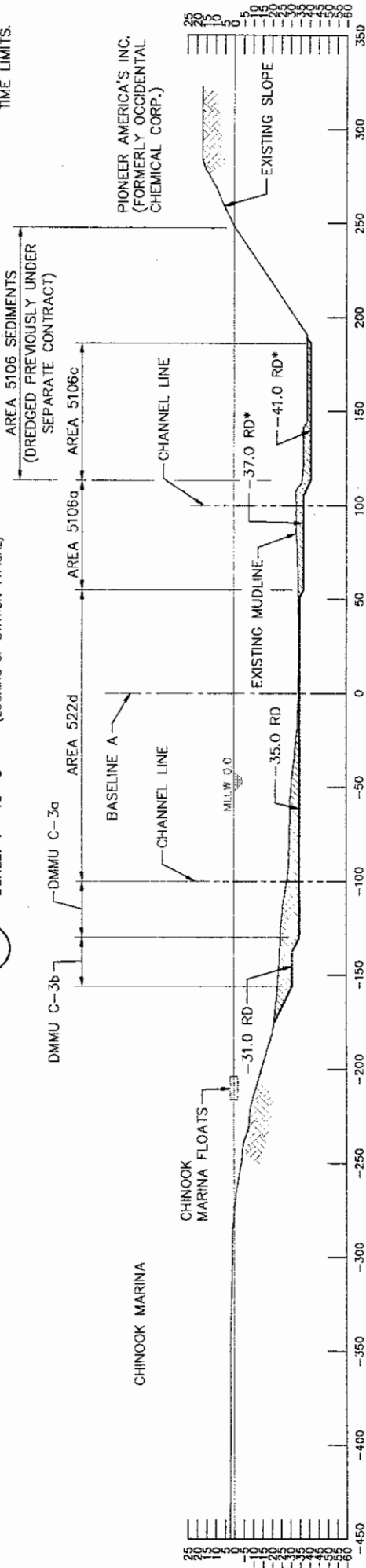
* ADDITIONAL AREA 5106 DREDGING THIS CONTRACT

NOTES:

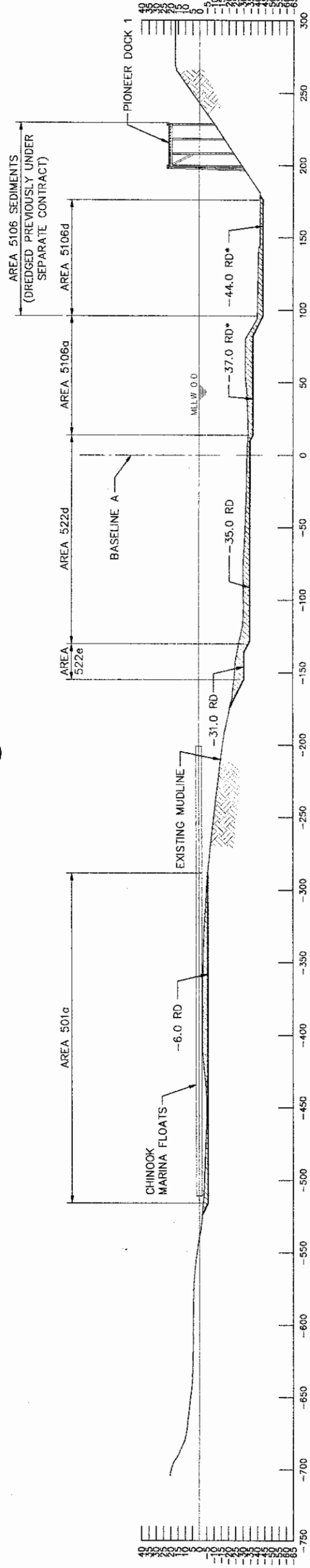
1. DREDGING BETWEEN CHANNEL LINE AND PIERHEAD LINE IN SMA'S 523c, 521, 511, AND 5106b TOGETHER WITH CONSTRUCTION OF THE RIPRAP TOE BERM ALONG PIER 25 MUST BE COMPLETED BETWEEN AUGUST 15 AND SEPTEMBER 30, 2003. ADDITIONALLY, DREDGING OF SMA 523b IN ITS ENTIRETY MUST BE COMPLETED WITHIN THE SAME TIME LIMITS.



1 SECTION @ STA 25+00
SCALE: 1"=40'-0"



2 SECTION @ STA 30+00
SCALE: 1"=40'-0"



3 SECTION @ STA 33+75
SCALE: 1"=40'-0"

1"=40'
scale
feet

BASE BID
JANUARY 22, 2003

GLENN SPRINGS HOLDINGS, INC.
2480 Fortune Drive, Suite 300
Lexington, KY 40509
(606) 543-2153 FAX:(606) 543-2172

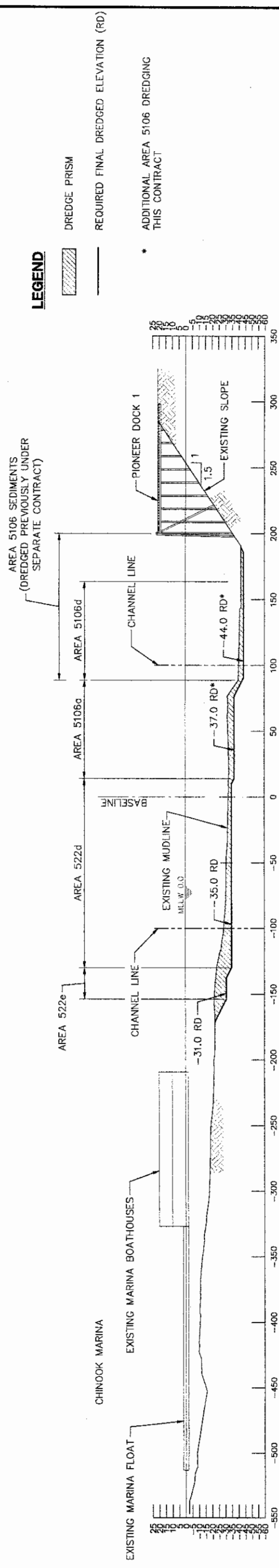
CONSULTANTS:
HART CROWSER, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.



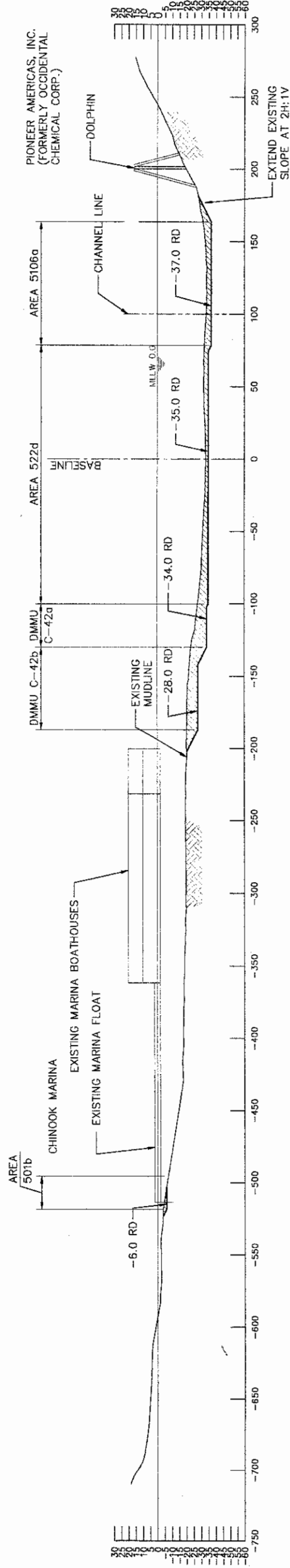
MDR	DATE	CHK BY	DATE	RTK	DATE	MARK	BY	APP.	DATE

HYLBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT
HYLBOS WATERWAY SECTIONS
SHEET 2

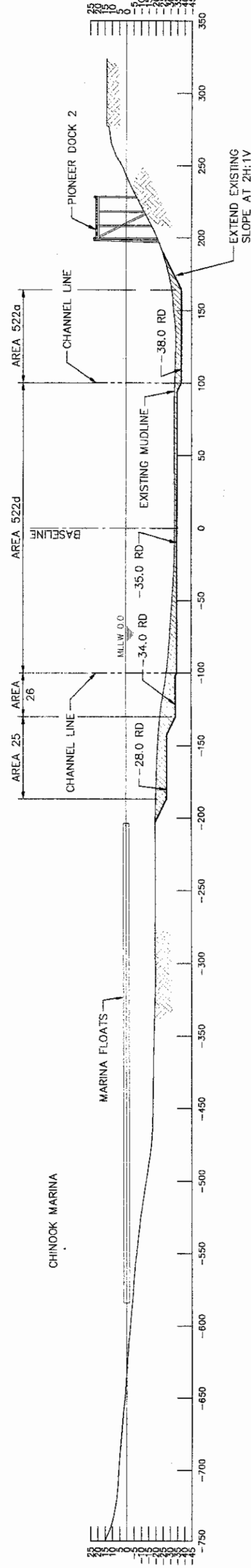
DRAWING NO. C-12
CONTRACT NO.
SHEET NO. 14 OF 24



1 SECTION @ STA 35+00
SCALE: 1"=40'-0" (LOOKING UP STATION TYPICAL)



SECTION @ STA 36+75
SCALE: 1"=40'-0"



SECTION @ STA 40+00
SCALE: 1"=40'-0"



BASE BID
JANUARY 22, 2003

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Lexington, KY 40509
(606) 543-2153 FAX: (606) 543-2172

CONSULTANTS:
HART CROWSER, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.

[illegible]

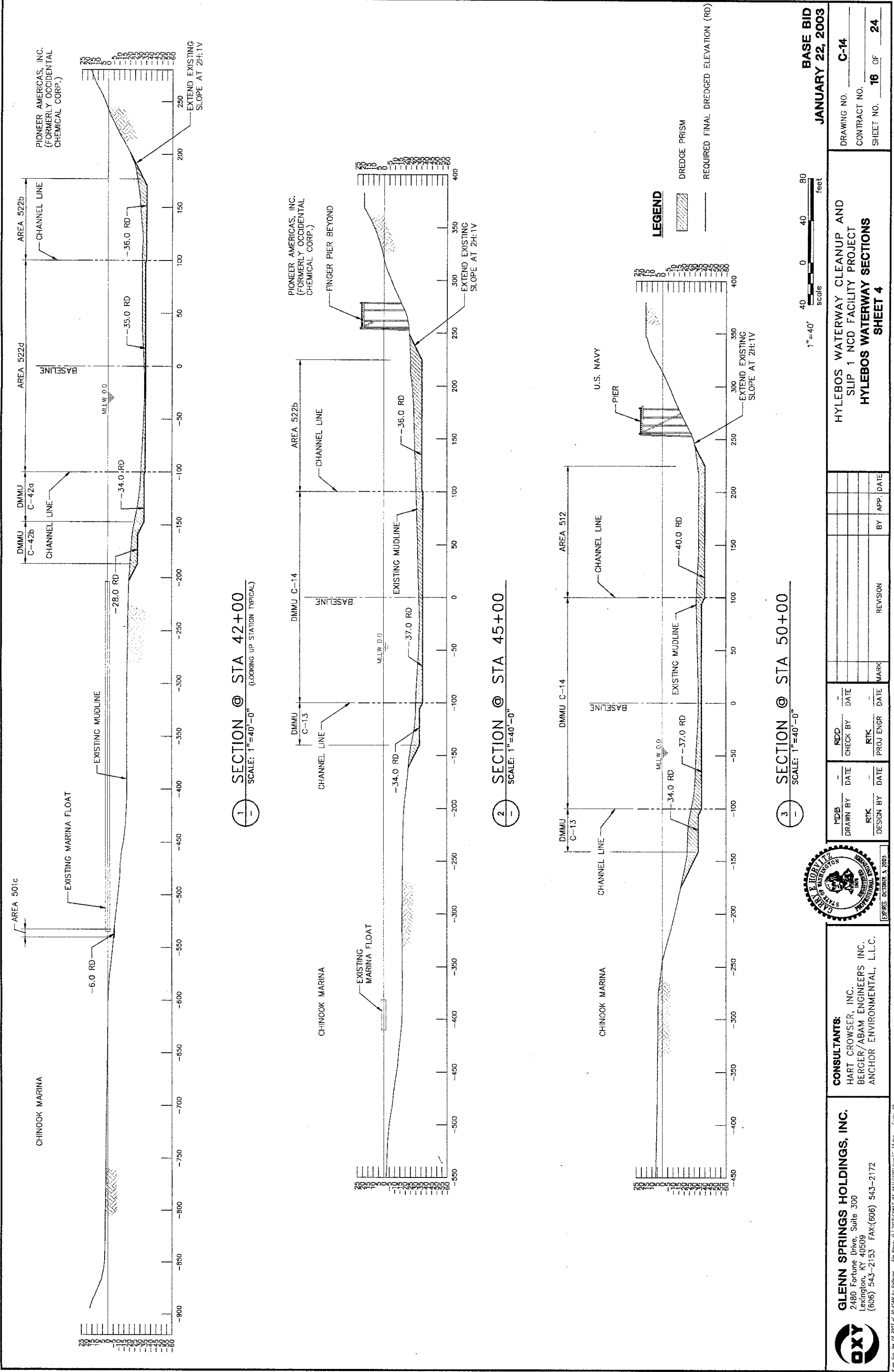
HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT
HYLEBOS WATERWAY SECTIONS
SHEET 3

DRAWING NO. **C-13**

CONTRACT NO.

SHEET NO. 15 OF 24

File Name: C:\2025\FAM\F-01-042\CAND\docs\2-11 den Scie-40



GLENN SPRINGS HOLDINGS, INC.
2480 Fortune Drive, Suite 300
Lexington, KY 40509
(606) 543-2153 FAX: (606) 543-2172

CONSULTANTS:
HART CROWSEY, INC.
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ANCHOR ENVIRONMENTAL, L.L.C.



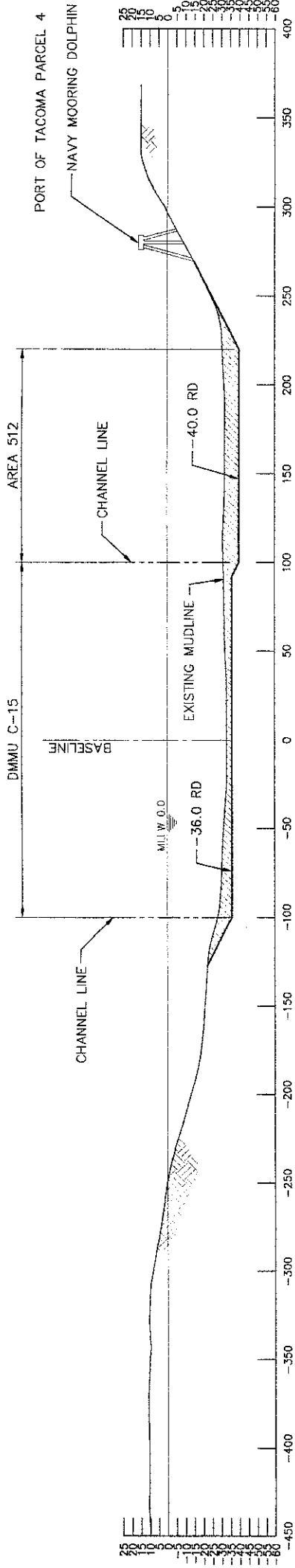
MDB	DATE	RDD	DATE
DRAWN BY	CHECK BY	CHECK BY	DATE
RTK	DATE	RTK	DATE
DESIGN BY	PROJ ENGR	BY	DATE
MARK	REVISION		

**HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT**
HYLEBOS WATERWAY SECTIONS
SHEET 4

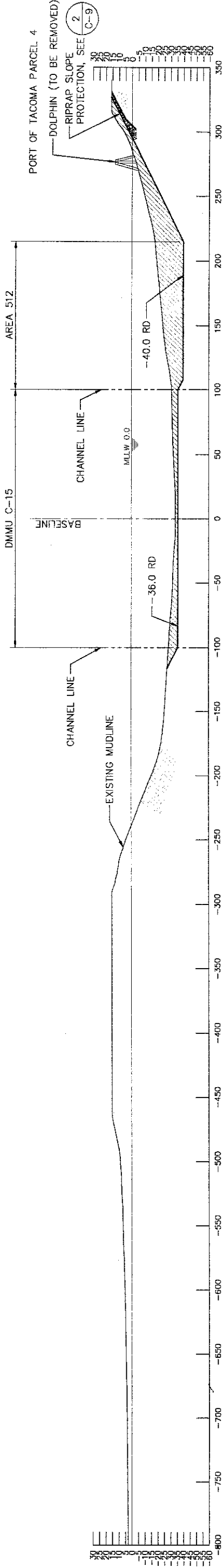
1"=40'
scale
feet
0 40 80

BASE BID
JANUARY 22, 2003

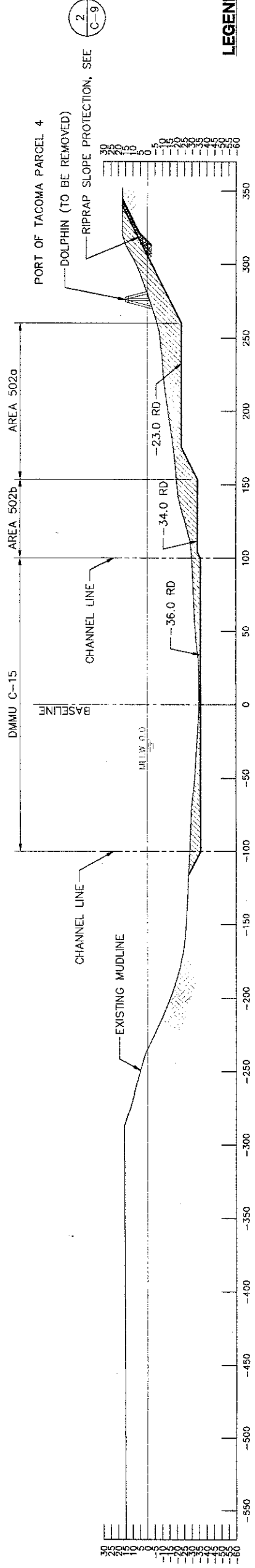
DRAWING NO. **C-14**
CONTRACT NO. _____
SHEET NO. **16** OF **24**



1 SECTION @ STA 54+50
SCALE: 1"=40'-0" (LOOKING UP STATION TYPICAL)



2 SECTION @ STA 56+50
SCALE: 1"=40'-0"



3 SECTION @ STA 58+00
SCALE: 1"=40'-0"

LEGEND



DREDGE PRISM

REQUIRED DREDGED ELEVATION (RD)



BASE BID
JANUARY 22, 2003

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Lexington, KY 40509
(606) 543-2153 FAX: (606) 543-2172

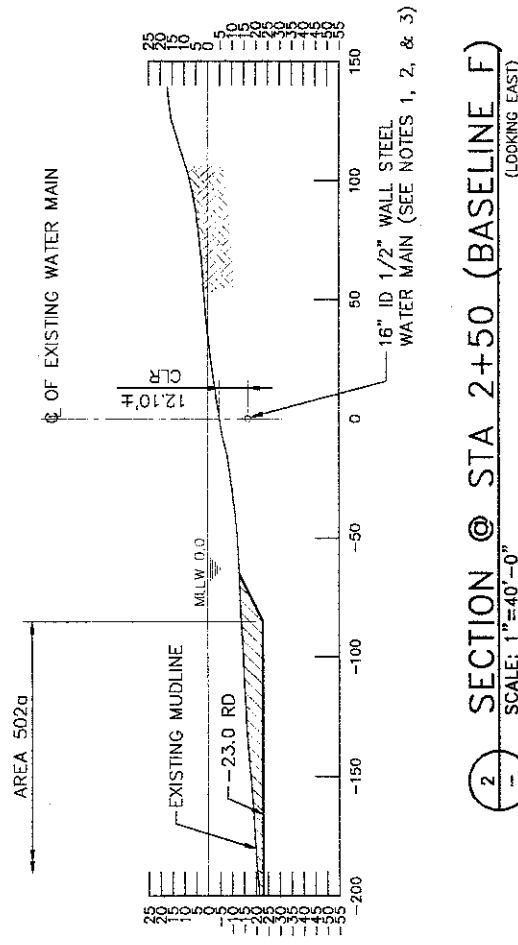
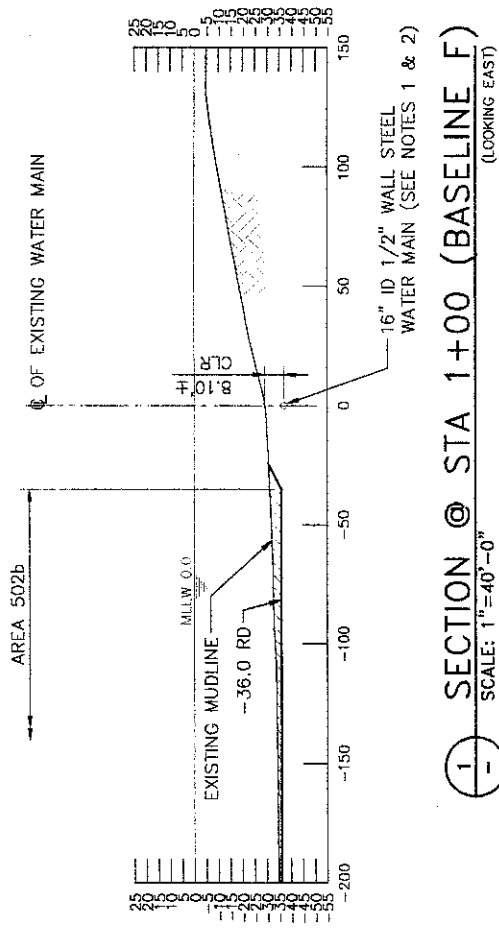
CONSULTANTS:
HART CROWSEY, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.



**HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT
HYLEBOS WATERWAY SECTIONS
SHEET 5**

NO.	DATE	BY	APP.	DATE
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24				

DRAWING NO. **C-15**
CONTRACT NO. _____
SHEET NO. **17** OF **24**



NOTES:

1. VERIFY THE LOCATION OF THE EXISTING WATER MAIN PRIOR TO DREDGING IN AREAS 502a AND 502b, AND ADVISE THE CONTRACTING ENTITY OF ANY POTENTIAL CONFLICTS NOT SHOWN ON THESE PLANS.
2. MAINTAIN A MINIMUM 20-FOOT OFFSET FROM TOP OF SLOPE TO THE EXISTING WATER MAIN.
3. MARK WATERLINE LOCATION WITH BUOY'S AT INTERVALS NOT TO EXCEED 50' ON CENTER.

LEGEND

 DREDGE PRISM

REQUIRED FINAL DREDGED ELEVATION (RD)



**BASE BID
JANUARY 22, 2003**

HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT
HYLEBOS WATERWAY SECTIONS
SHEET 6

DRAWING NO. **C-16**
CONTRACT NO. _____
SHEET NO. **18** OF _____

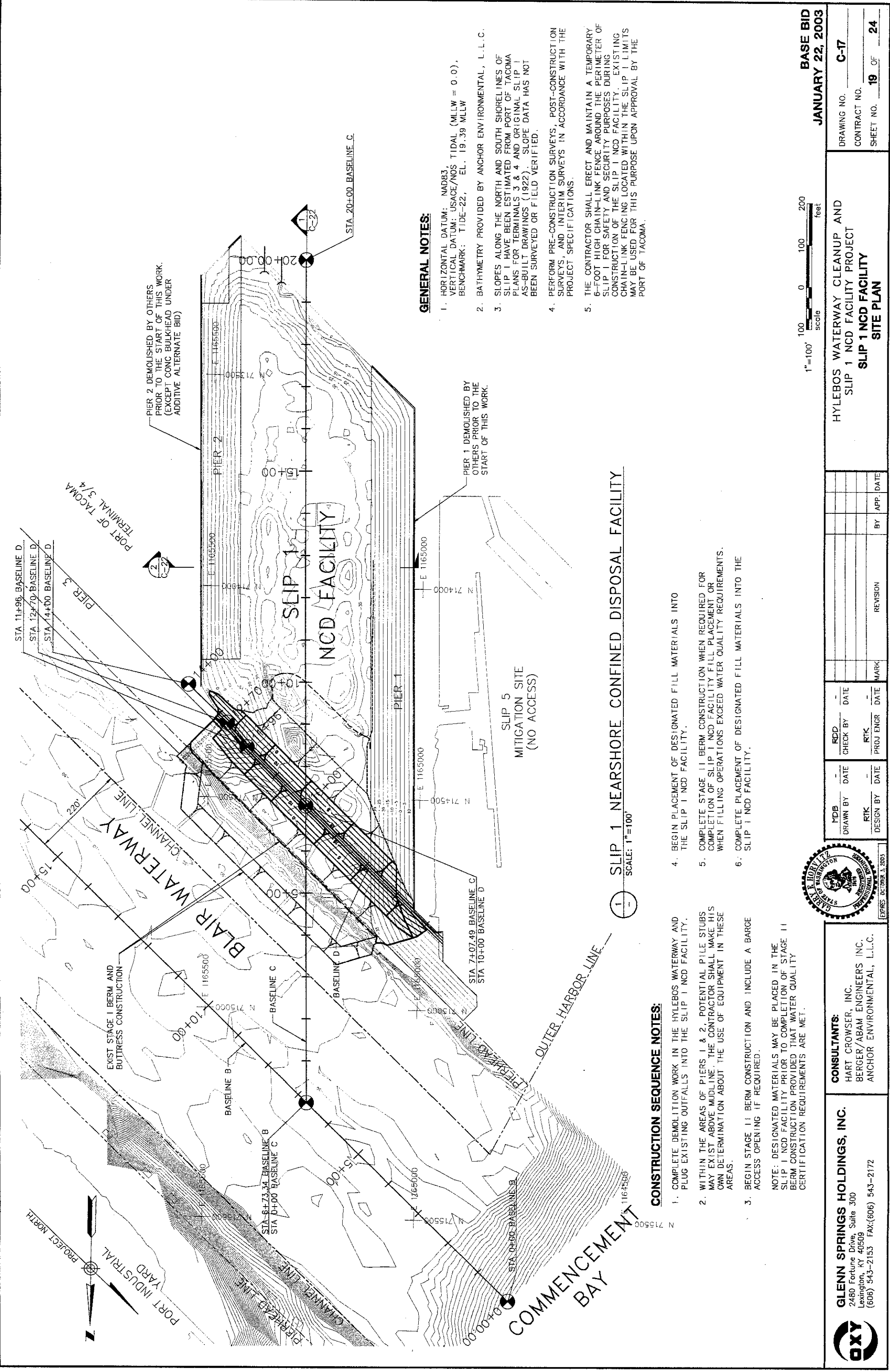
MDB	—	RDD	—			
DRAWN BY	DATE	CHECK BY	DATE			
RTK	—	RTK	—			
DESIGN BY	DATE	PROJ ENGR	DATE	MARK	REVISION	BY APP. DATE



CONSULTANTS:
HART CROWSER, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.

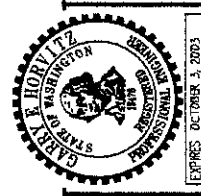
GLENN SPRINGS HOLDINGS, INC.
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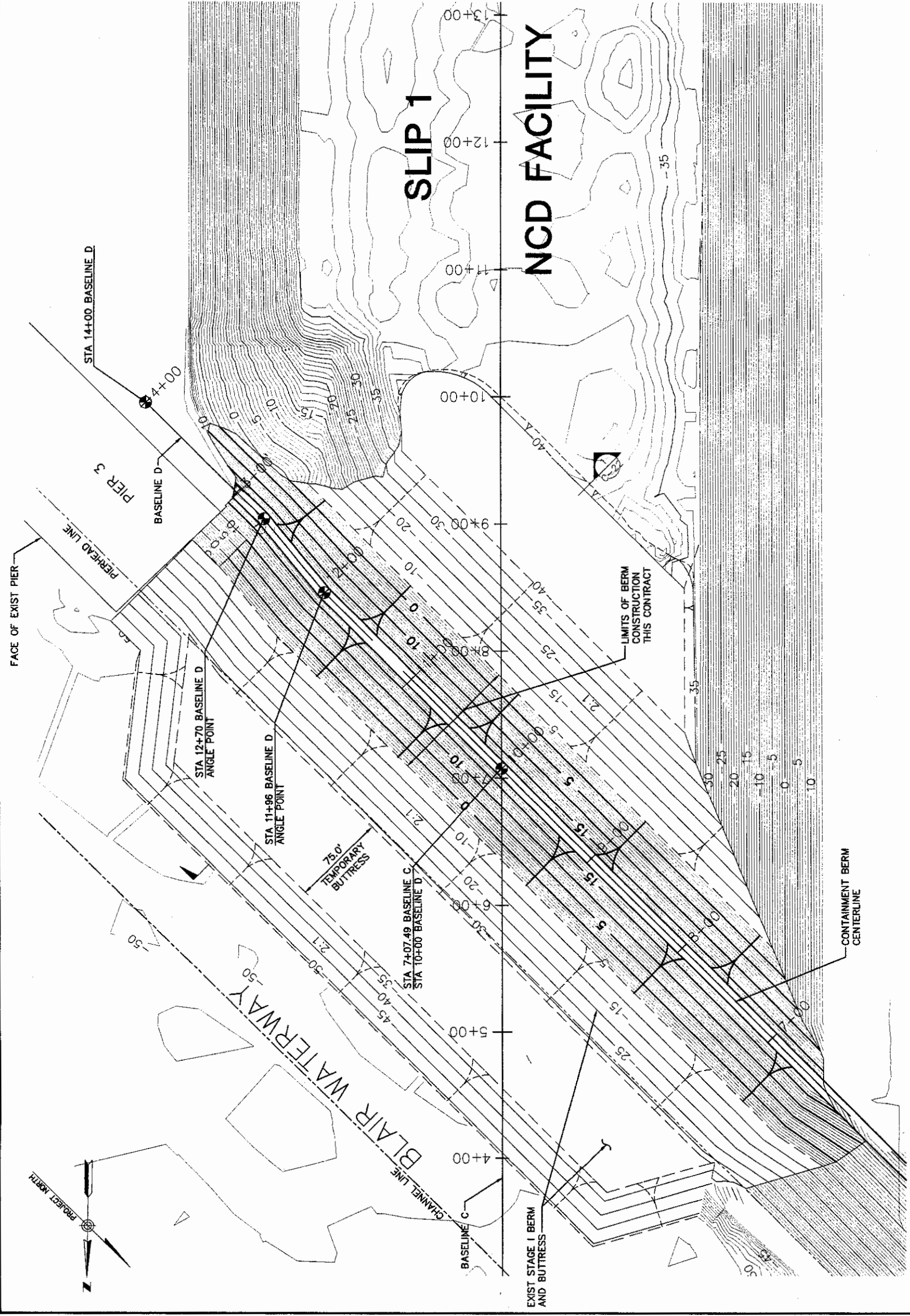


NO.	DATE	REVISION	BY	APP.	DATE

**HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT
SLIP 1 NCD FACILITY
SITE PLAN**

DRAWING NO. **C-17**
CONTRACT NO. **19** OF **24**
SHEET NO. **19** OF **24**

**BASE BID
JANUARY 22, 2003**



NOTES:

1. HORIZONTAL DATUM: NAD83
VERTICAL DATUM: USACE/NOS TIDAL (MLLW = 0.0)
BENCHMARK: TIDE-22, EL. 19.39 MLLW
2. BATHYMETRY PROVIDED BY ANCHOR ENVIRONMENTAL, L.L.C.
3. SLOPES ALONG THE NORTH AND SOUTH SHORELINES OF SLIP 1 HAVE BEEN ESTIMATED FROM PORT OF TACOMA PLANS FOR TERMINALS 3 & 4 AND ORIGINAL SLIP 1 AS-BUILT DRAWINGS (1922). SLOPE DATA HAS NOT BEEN SURVEYED OR FIELD VERIFIED.
4. PERFORM PRE-CONSTRUCTION SURVEYS, POST-CONSTRUCTION SURVEYS, AND INTERIM SURVEYS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. THE CONTRACTOR SHOULD ASSUME THAT THE TOP OF THE STAGE I BERM HAS SETTLED TO AN ELEVATION OF APPROXIMATELY -7.0 AND SHALL INCLUDE ADDITIONAL MATERIALS IN HIS BID AS REQUIRED FOR COMPLETION OF STAGE II BERM CONSTRUCTION.



BASE BID
JANUARY 22, 2003

DRAWING NO.	C-18
CONTRACT NO.	
SHEET NO.	20 OF 24

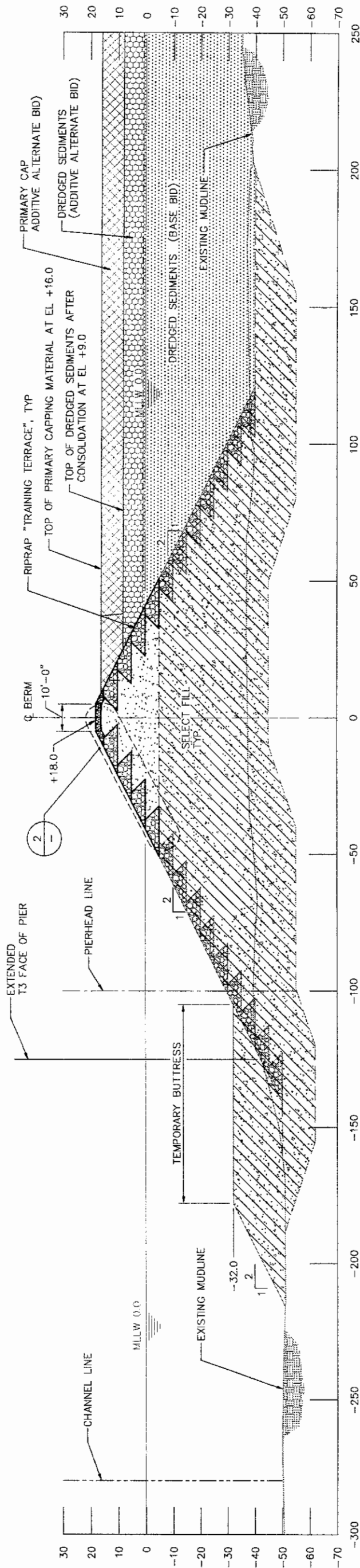
HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT
SLIP 1 NCD FACILITY
CONTAINMENT BERM PLAN - STAGE II



CONSULTANTS:
HART CROWSEY, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.

GLENN SPRINGS HOLDINGS, INC.
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Lexington, KY 40509
(606) 543-2153 FAX:(606) 543-2172





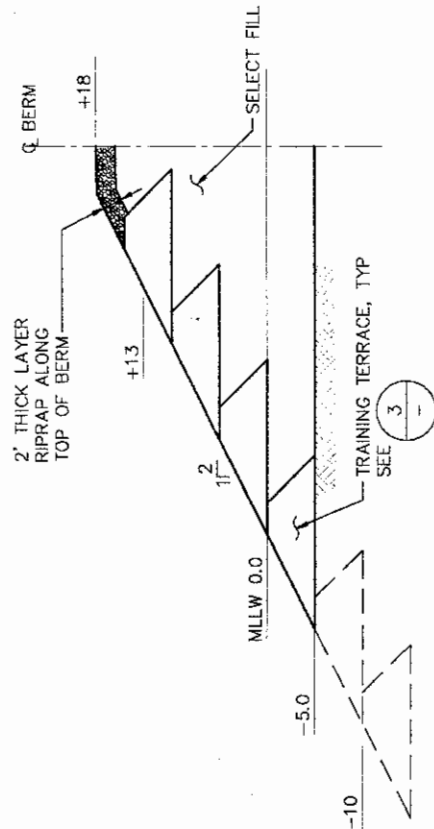
1 CROSS SECTION OF BERM
SCALE: 1"=20'

LEGEND

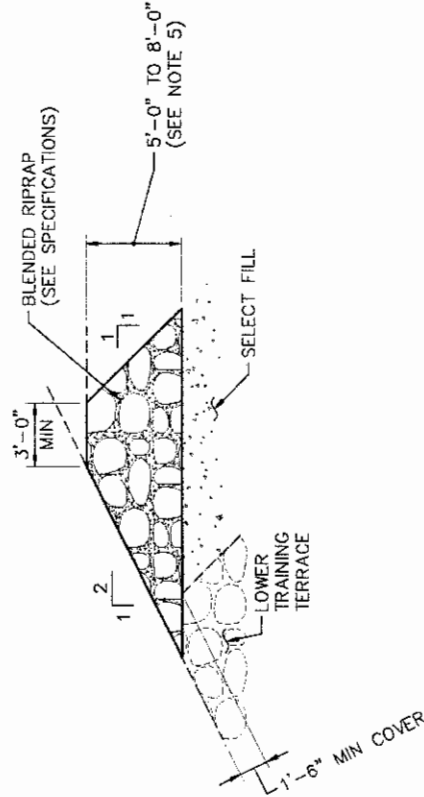
- EXISTING STAGE I BERM PREVIOUSLY CONSTRUCTED UNDER SEPARATE CONTRACT
- STAGE II BERM CONSTRUCTION
- BLENDED RIPRAP

NOTES

- HORIZONTAL DATUM: NAD83
VERTICAL DATUM: USACE/NOS TIDAL (MLW = 0.0)
BENCHMARK: TIDE-22, EL. 19.39 MLW
- THE BERM SHALL BE CONSTRUCTED AS FOLLOWS:
 - CONSTRUCT TWO ROWS OF TRAINING TERRACES, ONE ON EACH FACE OF THE BERM.
 - PLACE SELECT FILL BETWEEN THE TWO TERRACES TO CREATE A SINGLE LAYER OF THE BERM.
 - CONSTRUCT ANOTHER PAIR OF TRAINING TERRACES AS REQUIRED TO ACHIEVE THE SPECIFIED BERM SLOPES AND PLACE A SUBSEQUENT LAYER OF BERM FILL MATERIAL. TRAINING TERRACES SHALL REMAIN IN PLACE ON THE FACE OF THE BERM TO SERVE AS AN ARMORING LAYER.
- SEE THE GEOTECHNICAL DATA REPORT PREPARED BY HART CROWSER, INC. FOR THIS PROJECT AND APPENDED TO THE DESIGN ANALYSIS REPORT FOR THE HYLEBOS WATERWAY CLEANUP/SLIP 1 NEARSHORE CONFINED DISPOSAL FACILITY PROJECT, DATED JANUARY 22, 2003.
- PERFORM PRE-CONSTRUCTION SURVEYS, POST-CONSTRUCTION SURVEYS, AND INTERIM SURVEYS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- CONSTRUCT TRAINING TERRACES WITHIN THE RANGE OF HEIGHTS SHOWN ON THE PLANS.
- SEE DRAWING C-20 FOR DETAILS OF AN OPTIONAL TEMPORARY BARGE ACCESS OPENING IN THE BERM.



2 DETAIL - SLOPE ARMORING
SCALE: NTS



3 DETAIL - TRAINING TERRACE
SCALE: NTS

1"=20' Scale
0 20 40 feet

BASE BID
JANUARY 22, 2003

DRAWING NO. C-19
CONTRACT NO.
SHEET NO. 21 OF 24

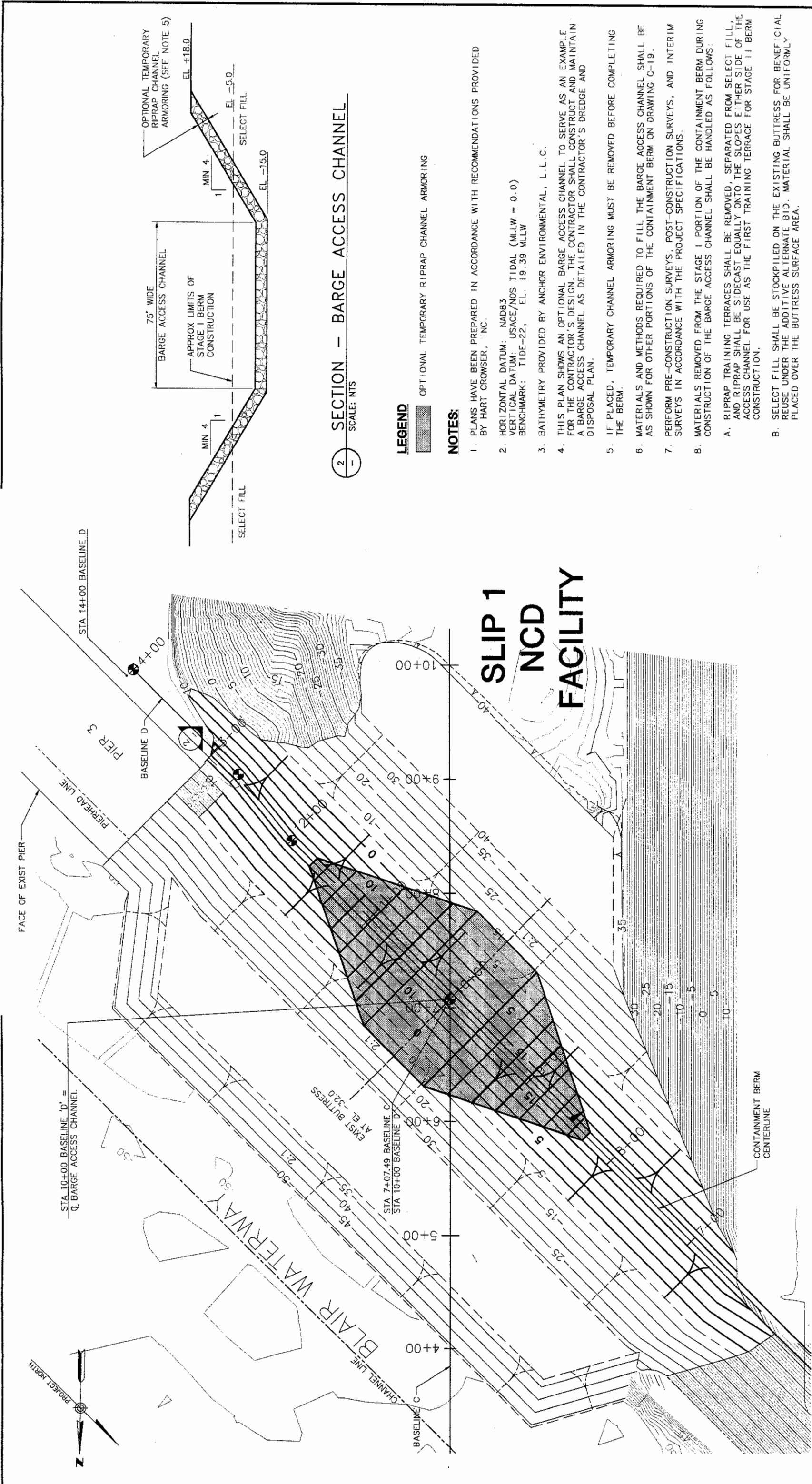
HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT
SLIP 1 NCD FACILITY
CONTAINMENT BERM DETAILS - SHEET 1



CONSULTANTS:
HART CROWSER, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.

GLENN SPRINGS HOLDINGS, INC.
2480 Fortune Drive, Suite 300
Lexington, KY 40509
(606) 543-2153 FAX: (606) 543-2172

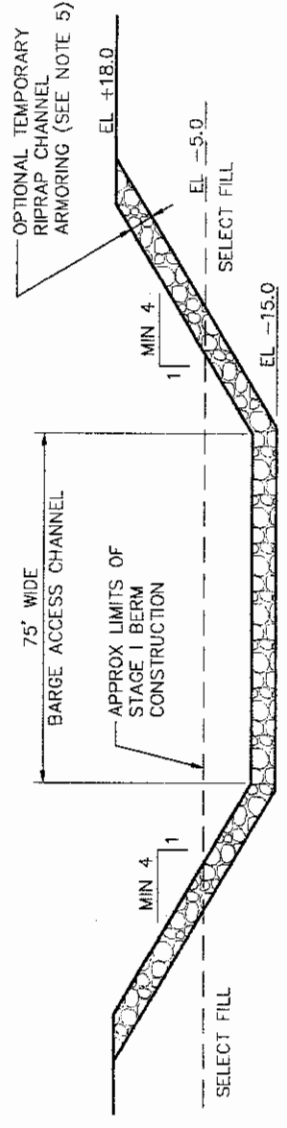




SLIP 1
NCD
FACILITY

1 - OPTIONAL TEMPORARY BARGE ACCESS CHANNEL
SCALE: 1"=40'

2 - SECTION - BARGE ACCESS CHANNEL
SCALE: NTS



LEGEND

OPTIONAL TEMPORARY RIPRAP CHANNEL ARMORING

NOTES:

1. PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH RECOMMENDATIONS PROVIDED BY HART CROWSER, INC.
2. HORIZONTAL DATUM: NAD83
VERTICAL DATUM: USACE/NOS TIDAL (MLLW = 0.0)
BENCHMARK: TIDE-22, EL. 19.39 MLLW
3. BATHYMETRY PROVIDED BY ANCHOR ENVIRONMENTAL, L.L.C.
4. THIS PLAN SHOWS AN OPTIONAL BARGE ACCESS CHANNEL TO SERVE AS AN EXAMPLE FOR THE CONTRACTOR'S DESIGN. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A BARGE ACCESS CHANNEL AS DETAILED IN THE CONTRACTOR'S DREDGE AND DISPOSAL PLAN.
5. IF PLACED, TEMPORARY CHANNEL ARMORING MUST BE REMOVED BEFORE COMPLETING THE BERM.
6. MATERIALS AND METHODS REQUIRED TO FILL THE BARGE ACCESS CHANNEL SHALL BE AS SHOWN FOR OTHER PORTIONS OF THE CONTAINMENT BERM ON DRAWING C-19.
7. PERFORM PRE-CONSTRUCTION SURVEYS, POST-CONSTRUCTION SURVEYS, AND INTERIM SURVEYS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
8. MATERIALS REMOVED FROM THE STAGE I PORTION OF THE CONTAINMENT BERM DURING CONSTRUCTION OF THE BARGE ACCESS CHANNEL SHALL BE HANDLED AS FOLLOWS:
 - A. RIPRAP TRAINING TERRACES SHALL BE REMOVED, SEPARATED FROM SELECT FILL, AND RIPRAP SHALL BE SIDECAST EQUALLY ONTO THE SLOPES EITHER SIDE OF THE ACCESS CHANNEL FOR USE AS THE FIRST TRAINING TERRACE FOR STAGE II BERM CONSTRUCTION.
 - B. SELECT FILL SHALL BE STOCKPILED ON THE EXISTING BUTTRESS FOR BENEFICIAL REUSE UNDER THE ADDITIVE ALTERNATE BID. MATERIAL SHALL BE UNIFORMLY PLACED OVER THE BUTTRESS SURFACE AREA.



CONSULTANTS:
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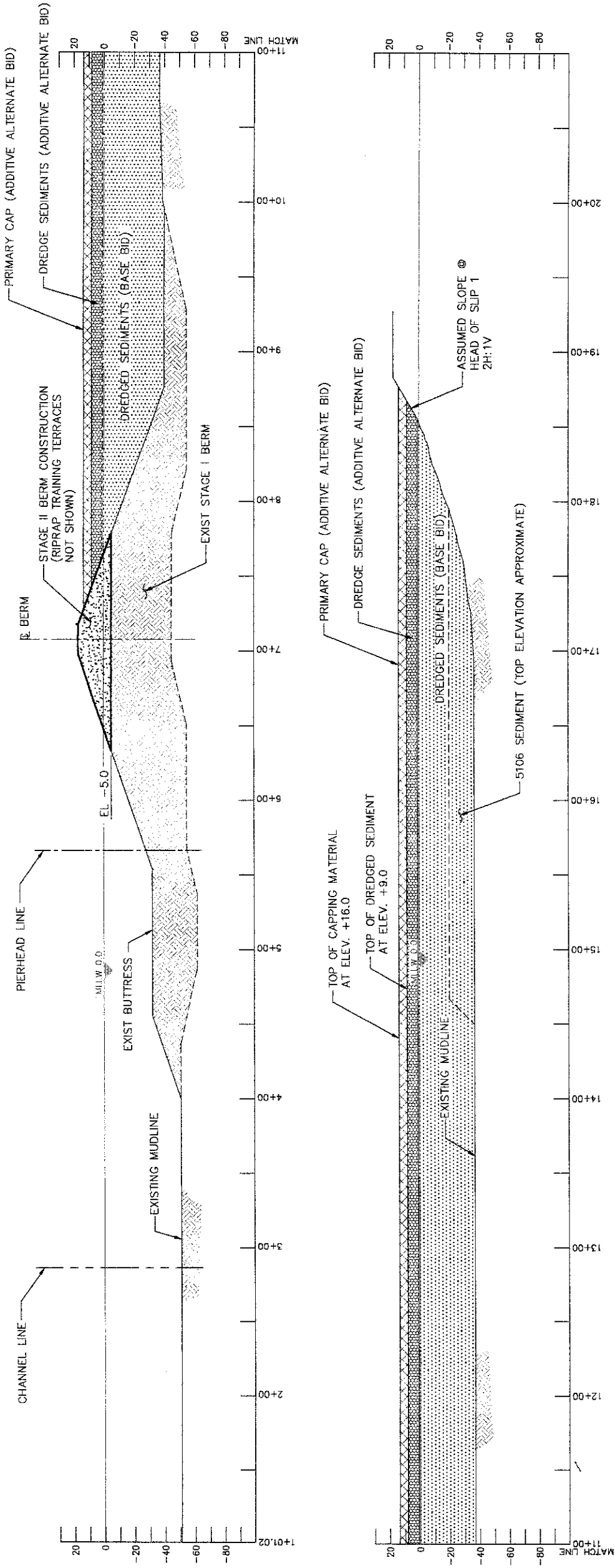
**HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT**
SLIP 1 NCD FACILITY
CONTAINMENT BERM DETAILS - SHEET 2

REVISION	BY	APP.	DATE

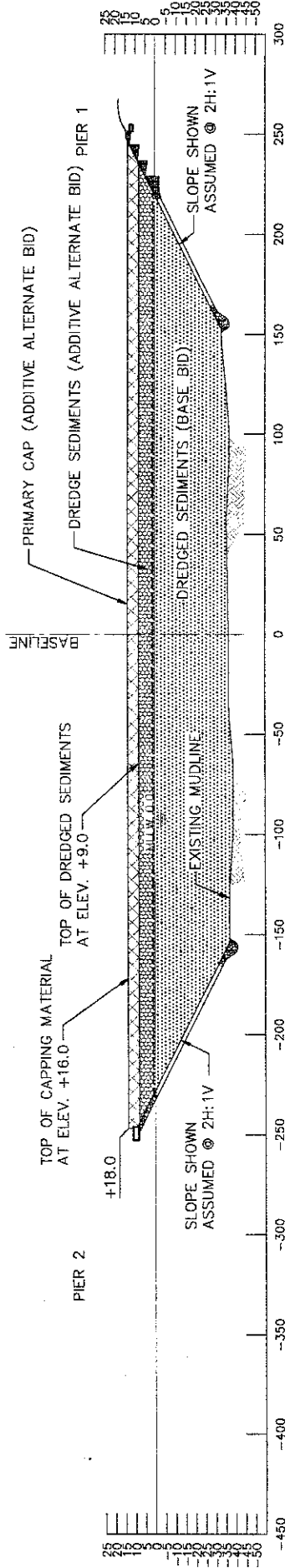
MDB	DATE	RDD	DATE
DRAWN BY		CHECK BY	
RTK		RTK	
DESIGN BY		PROJ ENGR	

1"=40'
scale
40 0 40 80
BASE BID
JANUARY 22, 2003

DRAWING NO. **C-20**
CONTRACT NO.
SHEET NO. **22** OF **24**



1 LONGITUDINAL SECTION @ BASELINE
SCALE: 1"=40'-0"



2 SECTION @ STA 12+00
SCALE: 1"=40'-0"
(LOOKING UP STATION)

1"=40'
scale
40 0 40 80
feet

BASE BID
JANUARY 22, 2003

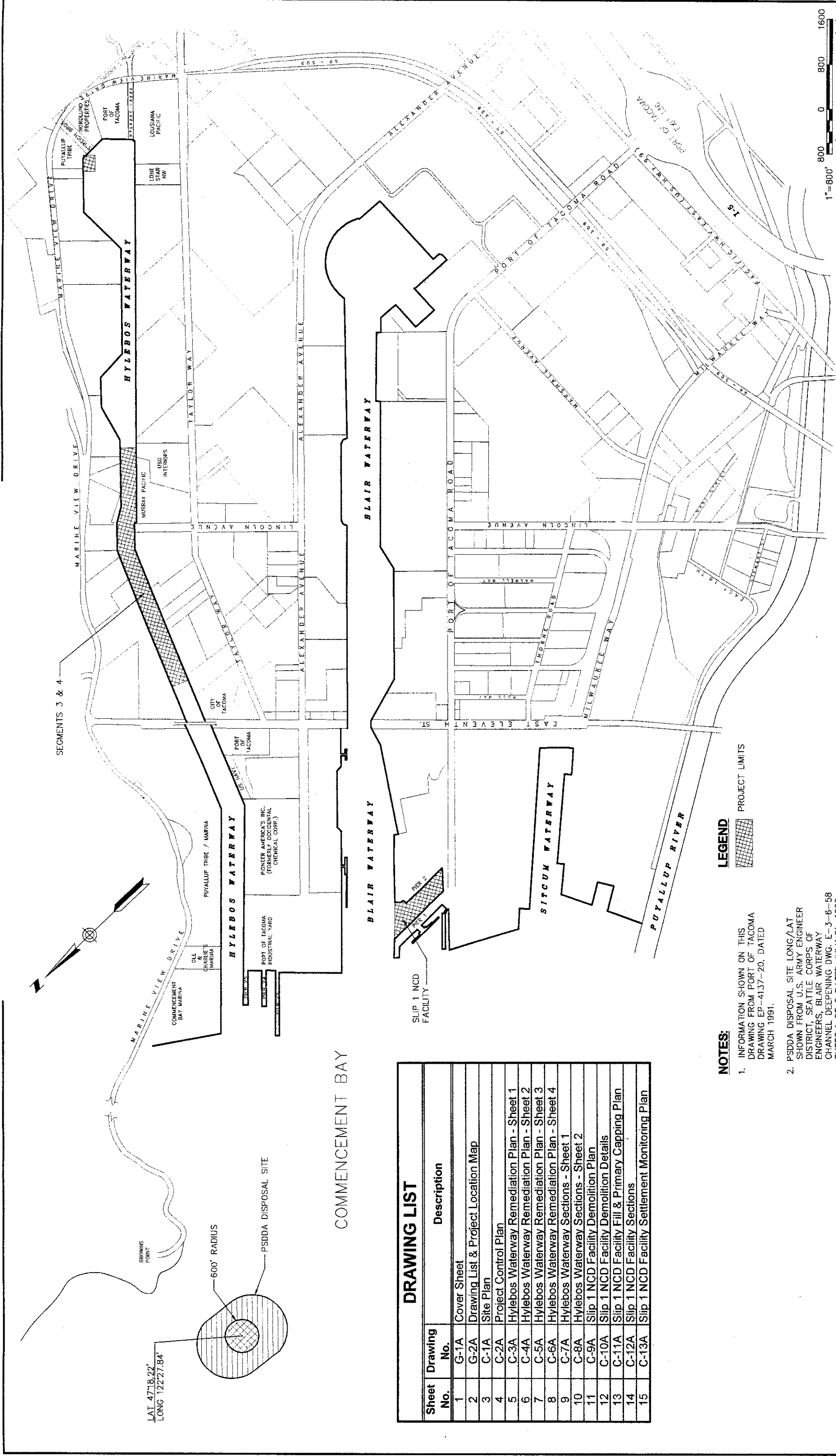
GLENN SPRINGS HOLDINGS, INC.
2480 Fortune Drive, Suite 300
Lexington, KY 40509
(606) 543-2153 FAX:(606) 543-2172

CONSULTANTS:
HART CROWSER, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.



**HYLEBOS WATERWAY CLEANUP AND
SLIP 1 NCD FACILITY PROJECT**
**SLIP 1 NCD FACILITY
SECTIONS**

DRAWING NO. **C-22**
CONTRACT NO.
SHEET NO. **24** OF **24**



DRAWING LIST		
Sheet No.	Drawing No.	Description
1	G-1A	Cover Sheet
2	G-2A	Drawing List & Project Location Map
3	C-1A	Site Plan
4	C-2A	Project Control Plan
5	C-3A	Hylebos Waterway Remediation Plan - Sheet 1
6	C-4A	Hylebos Waterway Remediation Plan - Sheet 2
7	C-5A	Hylebos Waterway Remediation Plan - Sheet 3
8	C-6A	Hylebos Waterway Remediation Plan - Sheet 4
9	C-7A	Hylebos Waterway Sections - Sheet 1
10	C-8A	Hylebos Waterway Sections - Sheet 2
11	C-9A	Slip 1 NCD Facility Demolition Plan
12	C-10A	Slip 1 NCD Facility Demolition Details
13	C-11A	Slip 1 NCD Facility Fill & Primary Capping Plan
14	C-12A	Slip 1 NCD Facility Sections
15	C-13A	Slip 1 NCD Facility Settlement Monitoring Plan

NOTES:

1. INFORMATION SHOWN ON THIS DRAWING FROM PORT OF TACOMA DRAWING EP-4137-20, DATED MARCH 1991.
2. PSDDA DISPOSAL SITE LONG/LAT SHOWN FROM U.S. ARMY ENGINEER DISTRICT, SEATTLE CORPS OF ENGINEERS, BLAIR WATERWAY CHANNEL DEEPENING DWG. E-3-6-58 SHEET 1 OF 5 DATED JULY 21, 1999. HORIZONTAL DATUM NAD 27.

LEGEND



PROJECT LIMITS

1"=800' scale
0 800 1600 feet

30% DESIGN

ADDITIVE ALTERNATE BID
JANUARY 22, 2003



GLENN SPRINGS HOLDINGS, INC.
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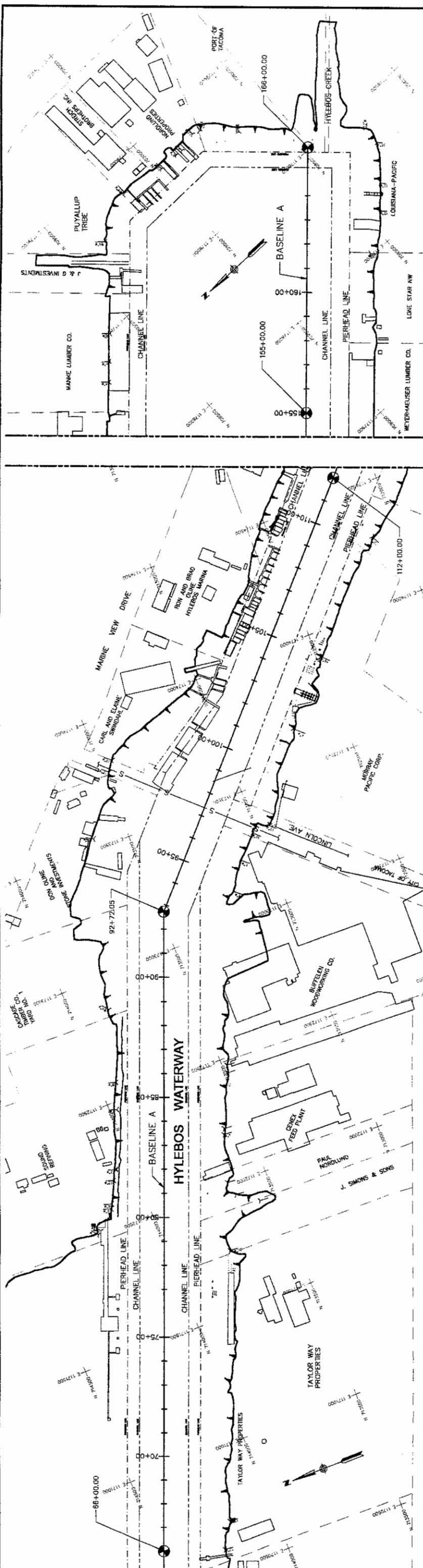
CONSULTANTS:
HART CROWSEY, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.



MDB DRAWN BY	DATE	RDD CHECK BY	DATE
RTK DESIGN BY	DATE	RTK PROJ ENGR	DATE
BY	APP.	REVISION	DATE
		MARK	

HYLEBOS WATERWAY CLEANUP
SEGMENTS 3 AND 4
DRAWING LIST & PROJECT LOCATION MAP

DRAWING NO. **G-2A**
CONTRACT NO. **-**
SHEET NO. **2** OF **15**



BENCHMARK:

TIDAL 22: A STANDARD BRASS DISK STAMPED "TIDE 22 1933" SET IN THE CONCRETE SIDEWALK ON THE NORTH SIDE AND EAST END OF THE EAST 11TH STREET BRIDGE OVER THE PUYALLUP RIVER. THE DISK IS LOCATED APPROXIMATELY 9.2 FEET NW OF THE STREET CURB, 3.6 FEET NW OF A LAMP POST, 2.0 FEET NE OF THE SW EDGE OF THE SIDEWALK, AND 1.0 FEET ABOVE THE STREET LEVEL. ELEVATION: 19.36 MLLW.

NOTES

- 1. BASE MAPPING & SMA BOUNDARIES PROVIDED BY ANCHOR ENVIRONMENTAL, LLC.
- 2. HORIZONTAL CONTROL IS NORTH AMERICAN DATUM 1983 (NAD 83). BATHYMETRY WAS CONVERTED FROM NAD27 TO NAD 83.
- 3. VERTICAL CONTROL IS NOS TIDAL DATUM (MLLW = 0.00) BENCHMARK: TIDE 22, ELEVATION: 19.36
- 4. BASELINE CONTROL POINT COORDINATES:

HYLEBOS WATERWAY (BASELINE A):

STA	EAST	NORTH
66+00.00	1,170,678.67	714,482.06
92+72.05	1,173,156.96	713,483.11
112+00.00	1,174,564.73	712,165.79
155+00.00	1,177,704.48	709,227.76
166+00.00	1,178,507.67	708,476.18

BLAIR WATERWAY (BASELINE B):

STA	EAST	NORTH
0+00.00	1,164,774.14	715,692.57
6+73.34	1,165,257.11	715,224.53

SLIP 1 NCD (BASELINE C):

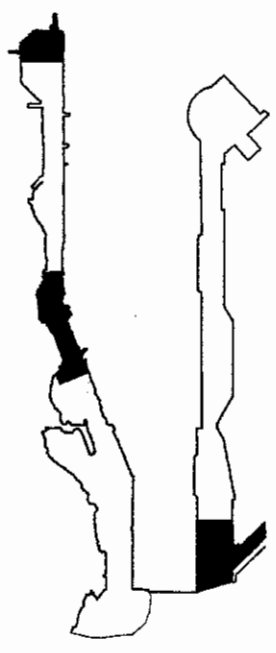
STA	EAST	NORTH
0+00.00	1,165,257.11	715,224.53
7+07.49	1,165,288.47	714,517.13
20+00.00	1,165,289.23	713,224.79

CLOSURE BERM (BASELINE D):

STA	EAST	NORTH
10+00.00	1,165,268.47	714,517.13
11+96.00	1,165,409.22	714,380.73
12+70.00	1,165,456.84	714,323.54
14+00.00	1,165,549.89	714,233.36



KEY MAP



ADDITIVE ALTERNATE BID
JANUARY 22, 2003

30% DESIGN

HYLEBOS WATERWAY CLEANUP
SEGMENTS 3 AND 4
PROJECT CONTROL PLAN

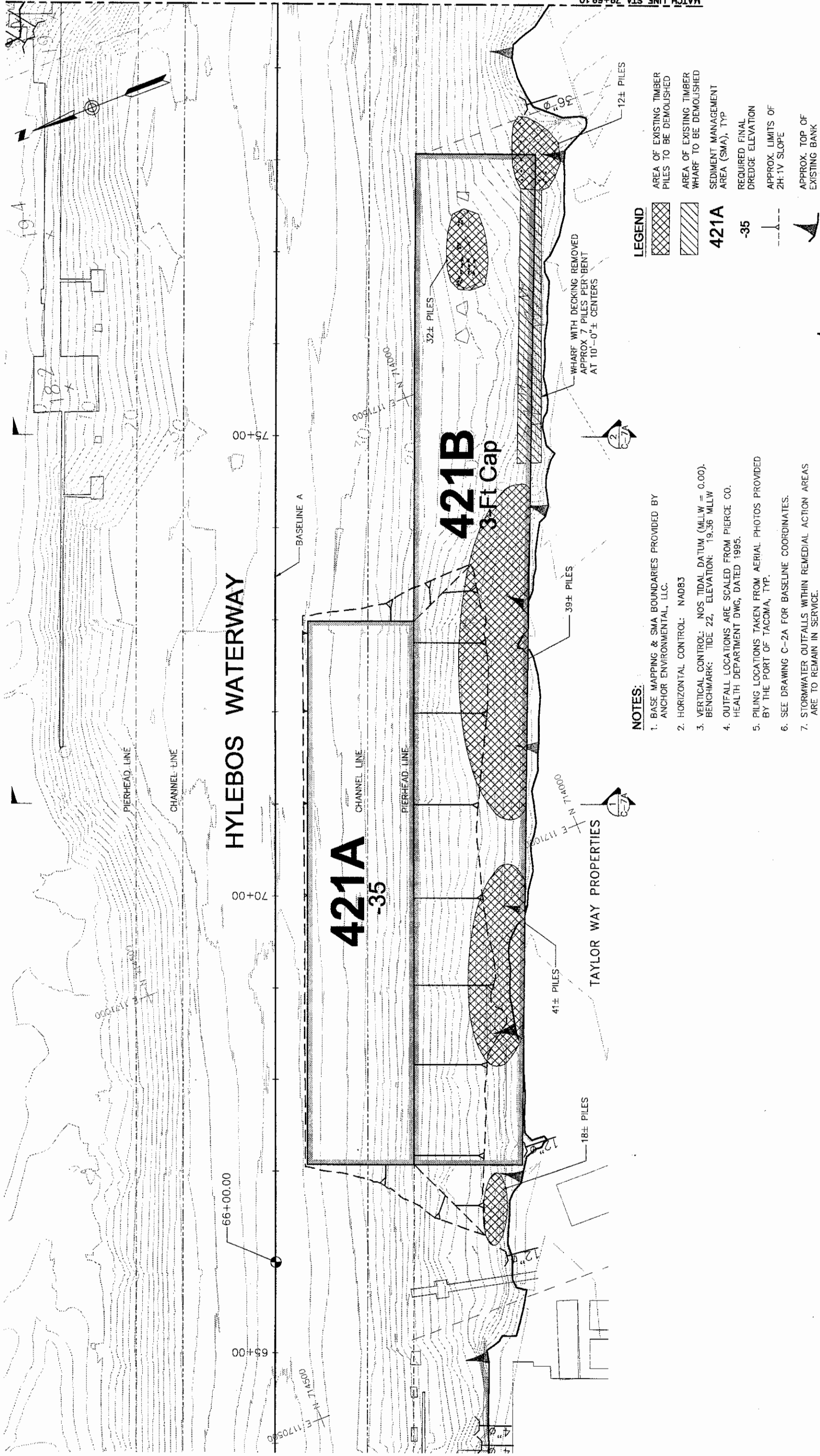
DRAWING NO.	C-2A
CONTRACT NO.	
SHEET NO.	4 OF 15



CONSULTANTS:
HART CROWSEY, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.

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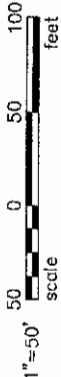
NOTES:

1. BASE MAPPING & SMA BOUNDARIES PROVIDED BY ANCHOR ENVIRONMENTAL, LLC.
2. HORIZONTAL CONTROL: NAD83
3. VERTICAL CONTROL: NOS TIDAL DATUM (MLLW = 0.00). BENCHMARK: TIDE 22, ELEVATION: 19.36 MLLW
4. OUTFALL LOCATIONS ARE SCALED FROM PIERCE CO. HEALTH DEPARTMENT DWG, DATED 1995.
5. PILING LOCATIONS TAKEN FROM AERIAL PHOTOS PROVIDED BY THE PORT OF TACOMA, TYP.
6. SEE DRAWING C-2A FOR BASELINE COORDINATES.
7. STORMWATER OUTFALLS WITHIN REMEDIAL ACTION AREAS ARE TO REMAIN IN SERVICE.

LEGEND

- AREA OF EXISTING TIMBER PILES TO BE DEMOLISHED
 - AREA OF EXISTING TIMBER WHARF TO BE DEMOLISHED
 - SEDIMENT MANAGEMENT AREA (SMA), TYP
 - REQUIRED FINAL DREDGE ELEVATION
 - APPROX. LIMITS OF 2H:1V SLOPE
 - APPROX. TOP OF EXISTING BANK
- 421A**
- 35**

1"=50' scale



CONSULTANTS:
HART CROWSER, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.

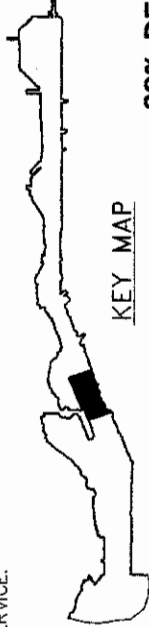
GLENN SPRINGS HOLDINGS, INC.
2480 Fortune Drive, Suite 300
Lexington, KY 40509
(606) 543-2153 FAX: (606) 543-2172



30% DESIGN

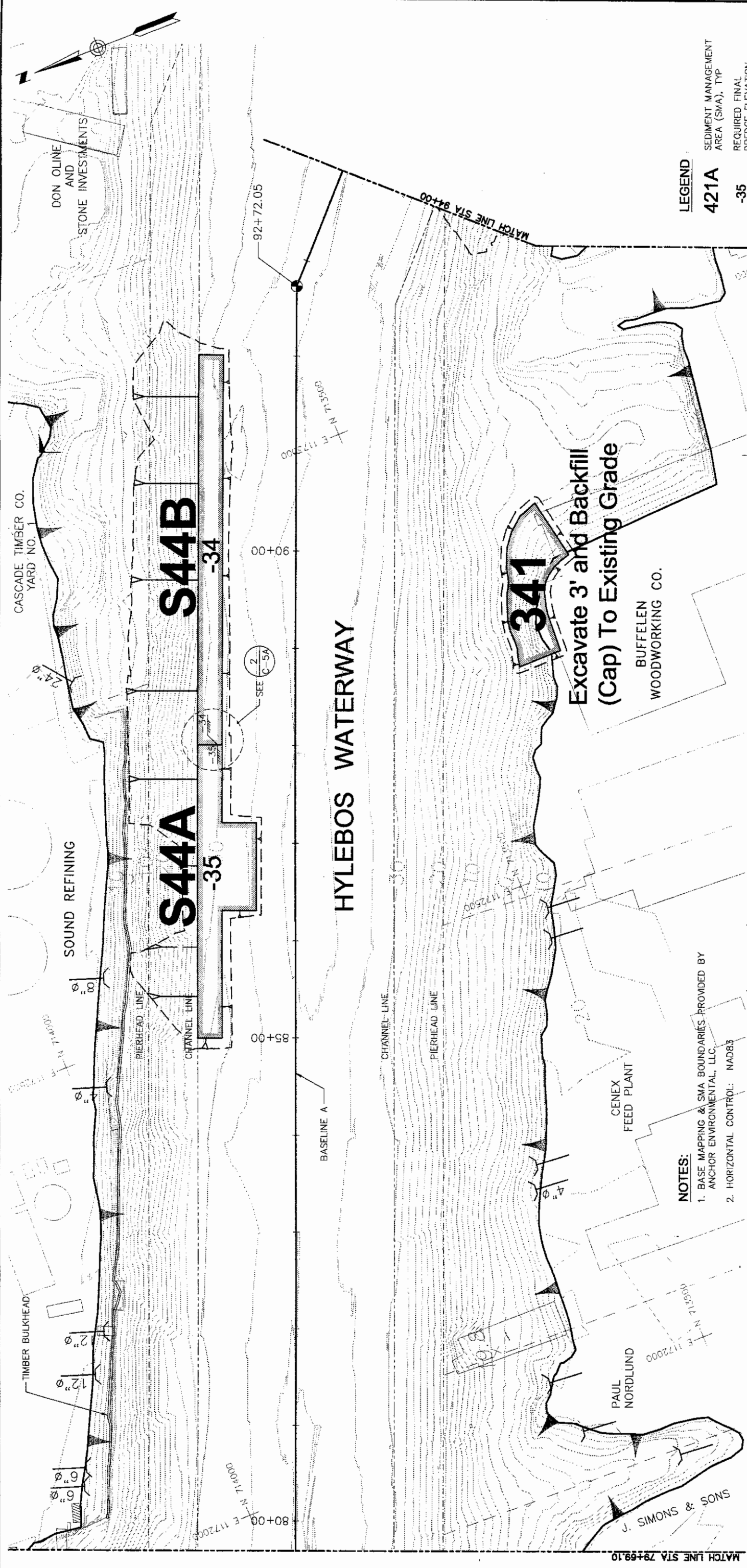
HYLEBOS WATERWAY CLEANUP
SEGMENTS 3 AND 4
HYLEBOS WATERWAY REMEDIATION PLAN
SHEET 1

KEY MAP



ADDITIVE ALTERNATE BID
JANUARY 22, 2003

DRAWING NO. **C-3A**
CONTRACT NO. **-**
SHEET NO. **5** OF **15**



- NOTES:**
1. BASE MAPPING & SMA BOUNDARIES PROVIDED BY ANCHOR ENVIRONMENTAL, LLC.
 2. HORIZONTAL CONTROL: NAD83
 3. VERTICAL CONTROL: NOS TIDAL DATUM (MLLW = 0.00).
BENCHMARK: TIDE 22, ELEVATION: 19.36 MLLW
 4. OUTFALL LOCATIONS ARE SCALED FROM PIERCE CO. HEALTH DEPARTMENT DWG, DATED 1995.
 5. PILING LOCATIONS TAKEN FROM AERIAL PHOTOS PROVIDED BY THE PORT OF TACOMA, TYP.
 6. SEE DRAWING C-2A FOR BASELINE COORDINATES.
 7. STORMWATER OUTFALLS WITHIN REMEDIAL ACTION AREAS ARE TO REMAIN IN SERVICE.

LEGEND

421A

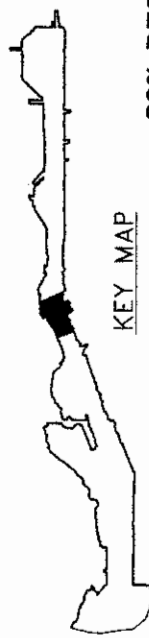
35

1" = 50'



scale feet

KEY MAP



30% DESIGN

**ADDITIVE ALTERNATE BID
JANUARY 22, 2003**

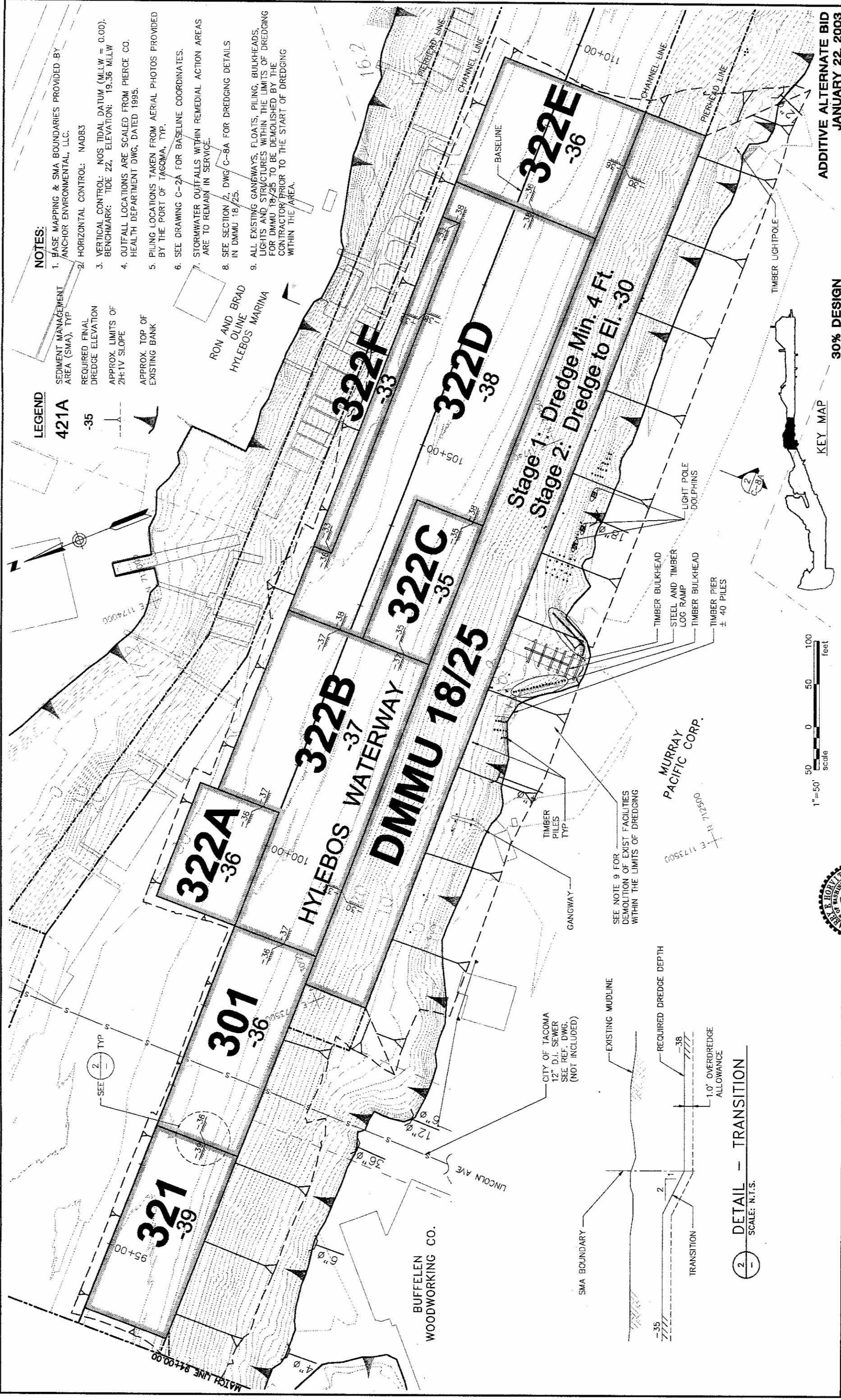
OXY
GLENN SPRINGS HOLDINGS, INC.
 2480 Fortune Drive, Suite 300
 Lexington, KY 40509
 (606) 543-2153 FAX: (606) 543-2172

CONSULTANTS:
HART CROWSER, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, I.L.C.

MDB	-	RDD	-
DRAWN BY	DATE	CHECK BY	DATE
RTK	-	RTK	-
DESIGN BY	DATE	PROJ ENGR	DATE
		MARK	
		REVISION	BY APP. DATE

HYLEBOS WATERWAY CLEANUP
SEGMENTS 3 AND 4
**HYLEBOS WATERWAY REMEDIATION PLAN
SHEET 2**

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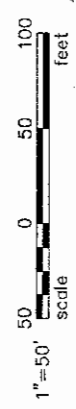


LEGEND

- 421A
-35
- NOTES:
1. BASE MAPPING & SMA BOUNDARIES PROVIDED BY ANCHOR ENVIRONMENTAL, LLC.
 2. HORIZONTAL CONTROL: NAD83
 3. VERTICAL CONTROL: NOS TIDAL DATUM (MLLW = 0.00).
BENCHMARK: TIDE 22, ELEVATION: 19.36 MLLW
 4. OUTFALL LOCATIONS ARE SCALED FROM PIERCE CO. HEALTH DEPARTMENT DWG, DATED 1995.
 5. PILING LOCATIONS TAKEN FROM AERIAL PHOTOS PROVIDED BY THE PORT OF TACOMA, TYP.
 6. SEE DRAWING C-2A FOR BASELINE COORDINATES.
 7. STORMWATER OUTFALLS WITHIN REMEDIAL ACTION AREAS ARE TO REMAIN IN SERVICE.
 8. SEE SECTION 2, DWG C-8A FOR DREDGING DETAILS IN DMMU 18/25.
 9. ALL EXISTING GANGWAYS, FLOATS, PILING, BULKHEADS, LIGHTS AND STRUCTURES WITHIN THE LIMITS OF DREDGING FOR DMMU 18/25 TO BE DEMOLISHED BY THE CONTRACTOR PRIOR TO THE START OF DREDGING WITHIN THE AREA.

30% DESIGN

KEY MAP



2
-
DETAIL - TRANSITION
SCALE: N.T.S.

MURRAY
PACIFIC CORP.

SEE NOTE 9 FOR
DEMOLITION OF EXIST FACILITIES
WITHIN THE LIMITS OF DREDGING

CITY OF TACOMA
12" D.I. SEWER
SEE REF. DWG.
(NOT INCLUDED)

BUFFELEN
WOODWORKING CO.

GLENN SPRINGS HOLDINGS, INC.
2480 Fortune Drive, Suite 300
Lexington, KY 40509
(606) 543-2153 FAX: (606) 543-2172

CONSULTANTS:
HART CROWSEY, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.

MDR	DATE	CHK BY	DATE	RDD	DATE
RTK	DATE	PROJ ENGR	DATE	RTK	DATE
DESIGN BY	DATE	REVISION	BY	APP.	DATE

ADDITIVE ALTERNATE BID
JANUARY 22, 2003

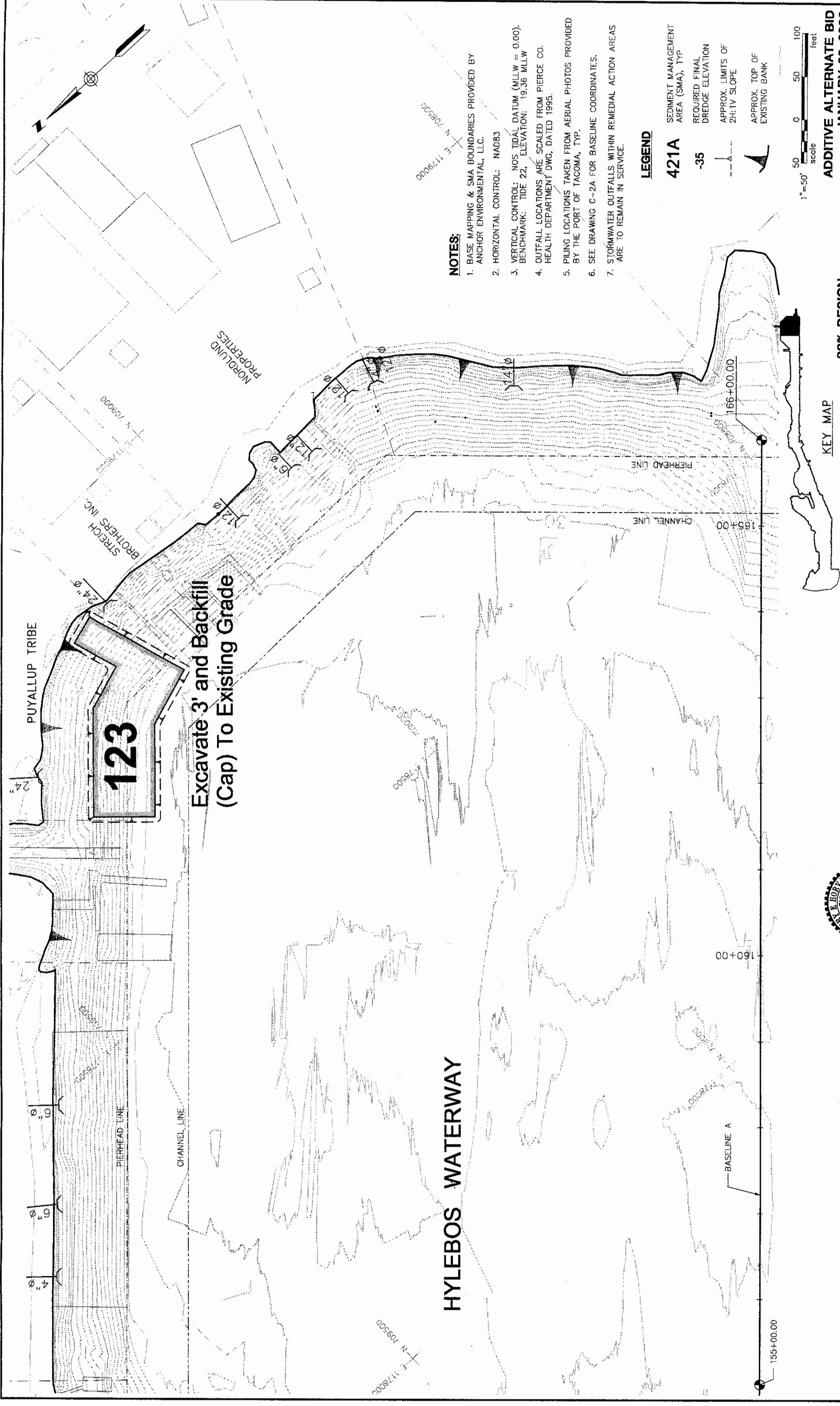
DRAWING NO. **C-5A**
CONTRACT NO. **-**
SHEET NO. **7** OF **15**

**HYLEBOS WATERWAY CLEANUP
SEGMENTS 3 AND 4**

HYLEBOS WATERWAY REMEDIATION PLAN

SHEET 3





HYLEBOS WATERWAY

NOTES:

- 1. BASE MAPPING & SMA BOUNDARIES PROVIDED BY ANCHOR ENVIRONMENTAL, LLC.
- 2. HORIZONTAL CONTROL: NAD83
- 3. VERTICAL CONTROL: NOS TIDAL DATUM (MLLW = 0.00). BENCHMARK: TIDE 22, ELEVATION: 19.36 MLLW
- 4. OUTFALL LOCATIONS ARE SCALED FROM PIERCE CO. HEALTH DEPARTMENT DWG, DATED 1995.
- 5. PILING LOCATIONS TAKEN FROM AERIAL PHOTOS PROVIDED BY THE PORT OF TACOMA, TYP.
- 6. SEE DRAWING C-2A FOR BASELINE COORDINATES.
- 7. STORMWATER OUTFALLS WITHIN REMEDIAL ACTION AREAS ARE TO REMAIN IN SERVICE.

LEGEND

- 421A SEDIMENT MANAGEMENT AREA (SMA), TYP
- 35 REQUIRED FINAL DREDGE ELEVATION
- APPROX. LIMITS OF 2H:1V SLOPE
- ▲ APPROX. TOP OF EXISTING BANK



KEY MAP

30% DESIGN

ADDITIVE ALTERNATE BID
JANUARY 22, 2003

NO.	REVISION	BY	APP.	DATE

CONSULTANTS:
HART CROWSEY, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.

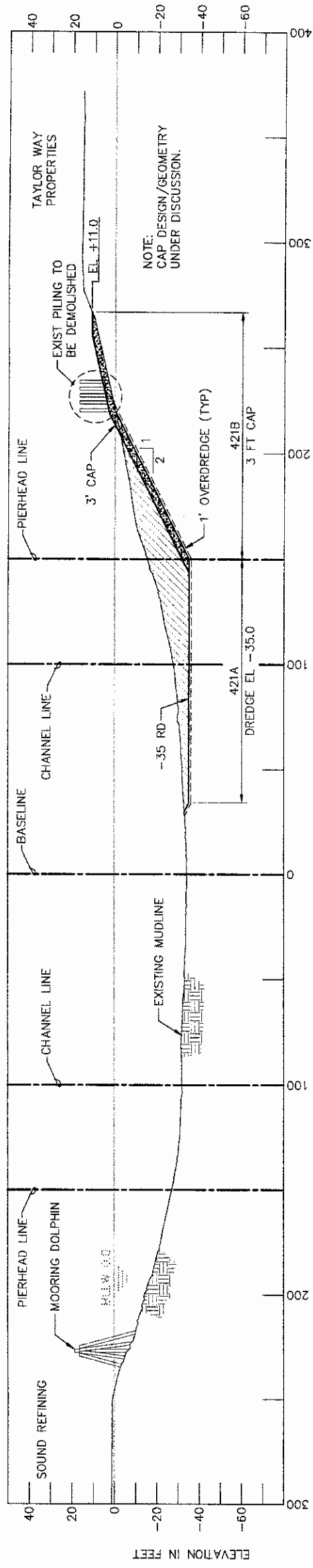
GLENN SPRINGS HOLDINGS, INC.
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Lexington, KY 40509
(606) 543-2153 FAX: (606) 543-2172



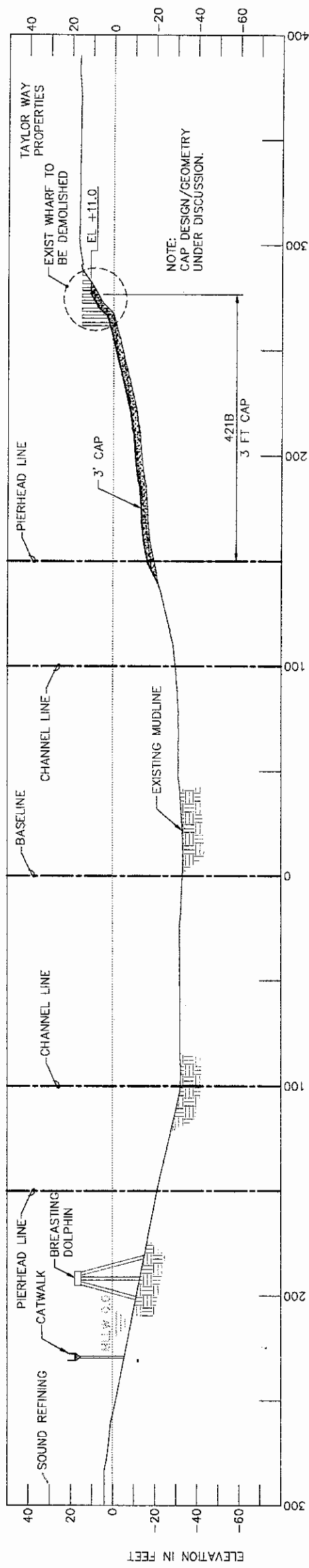
HYLEBOS WATERWAY CLEANUP
SEGMENTS 3 AND 4
HYLEBOS WATERWAY REMEDIATION PLAN
SHEET 4

DRAWING NO. C-6A
CONTRACT NO. -
SHEET NO. 8 OF 15





1 CROSS SECTION - STATION 71+00
- SCALE: 1"=30'
(LOOKING UP STATION TYPICAL)



2 CROSS SECTION - STATION 75+00
SCALE: 1"=30'

LEGEND

 DREDGE PRISM

REQUIRED FINAL DREDGED ELEVATION (RD)



**ADDITIVE ALTERNATE BID
JANUARY 22, 2003**

30% DESIGN

HYLEBOS WATERWAY CLEANUP
SEGMENTS 3 AND 4
HYLEBOS WATERWAY SECTIONS
SHEET 1

DRAWING NO. **C-7A**

CONTRACT NO.

SHEET NO. 9 OF 15

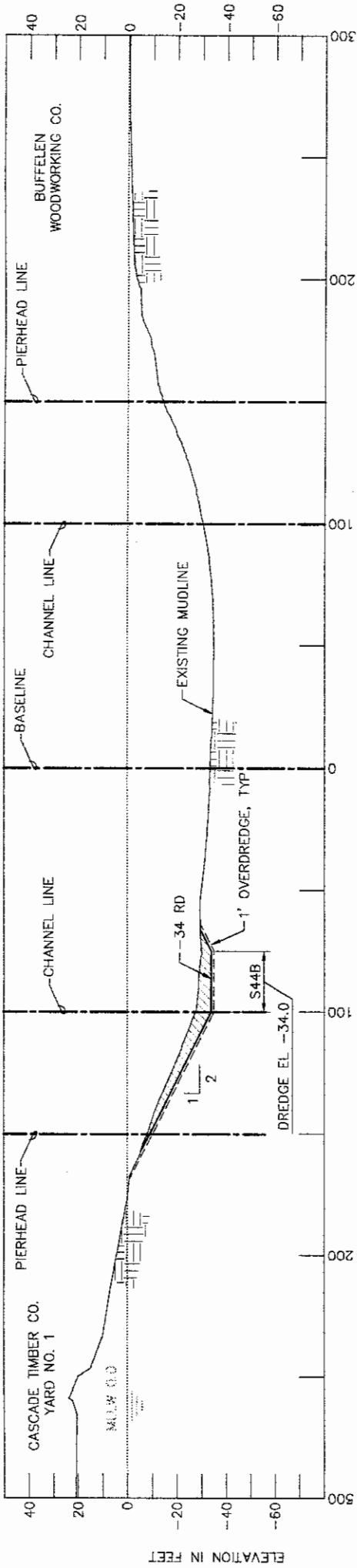
GLENN SPRINGS HOLDINGS, INC.

2480 Fortune Drive, Suite 300
Lexington, KY 40509
(606) 543-2153 FAX:(606) 543-2154

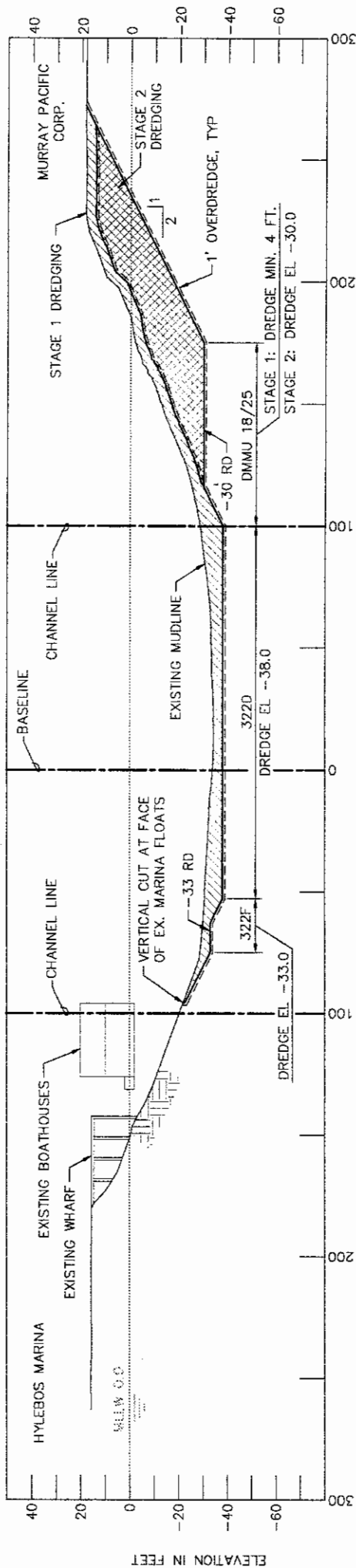
CONSULTANTS:
HART CROWSER, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.



MDB	-	RDD	-			
DRAWN BY	DATE	CHECK BY	DATE			
RTK	-	RTK	-			
DESIGN BY	DATE	PROJ ENGR	DATE	REVISION	BY	APP. DATE



1 CROSS SECTION - STATION 91+00
SCALE: 1"=30'
(LOOKING UP STATION TYPICAL)



2 CROSS SECTION - STATION 106+00
SCALE: 1"=30'

LEGEND

- STAGE 1 DREDGE PRISM
- STAGE 2 DREDGE PRISM
- REQUIRED FINAL DREDGE ELEVATION (RD)



30% DESIGN

ADDITIVE ALTERNATE BID
JANUARY 22, 2003

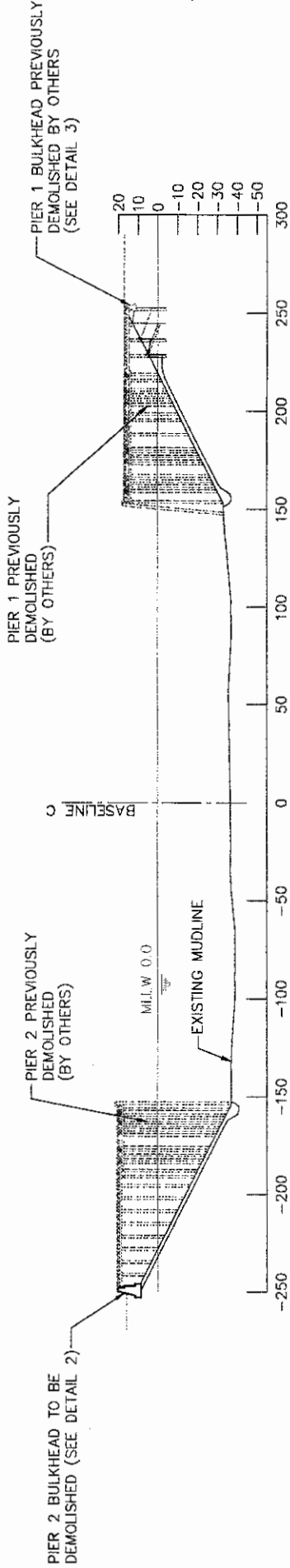
GLENN SPRINGS HOLDINGS, INC.
2480 Fortune Drive, Suite 300
Lexington, KY 40509
(606) 543-2153 FAX:(606) 543-2172

CONSULTANTS:
HART CROWSER, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.



HYLBOS WATERWAY CLEANUP
SEGMENTS 3 AND 4
HYLBOS WATERWAY SECTIONS
SHEET 2

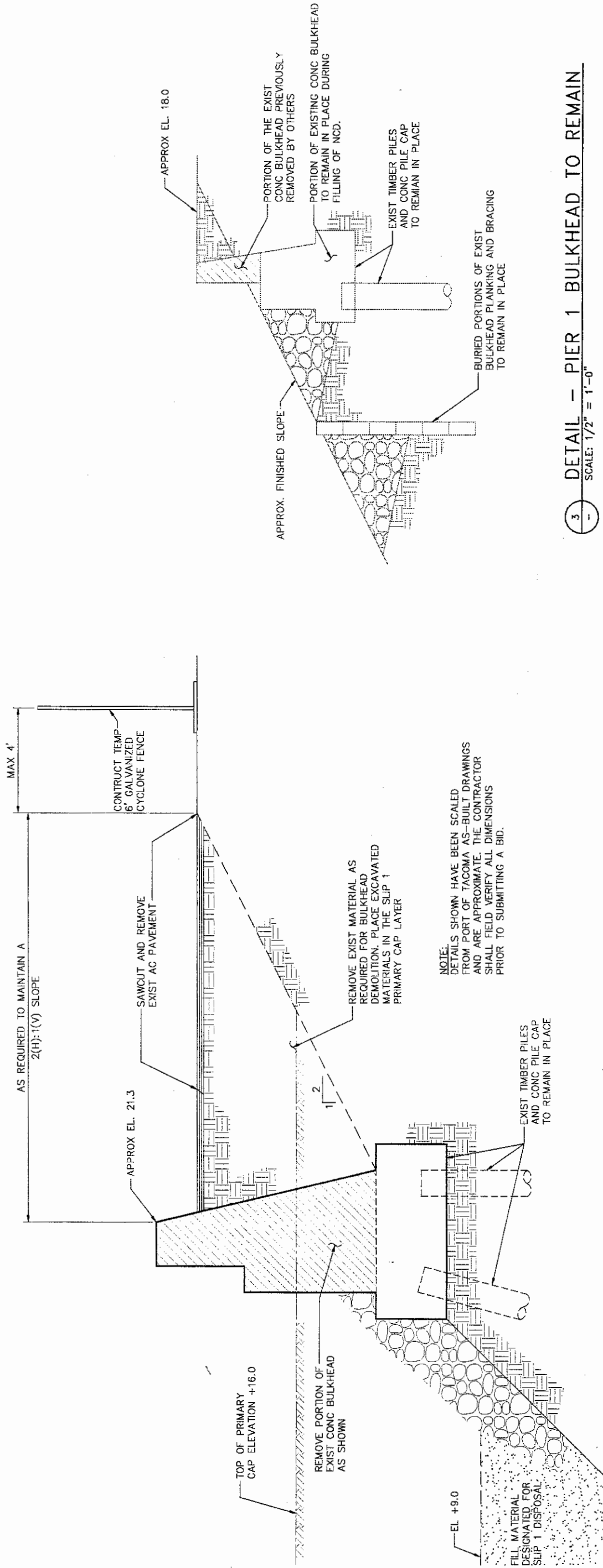
DRAWING NO. C-8A
CONTRACT NO. -
SHEET NO. 10 OF 15



REFERENCE DRAWINGS:

1. LIMITED AS-BUILT REFERENCE DRAWINGS OF THE EXISTING PIER 2 BULKHEAD ARE AVAILABLE FOR REVIEW AT THE ENGINEERING DEPARTMENT, PORT OF TACOMA.

1 SECTION - SLIP 1
SCALE: 1" = 40'-0"



3 DETAIL - PIER 1 BULKHEAD TO REMAIN
SCALE: 1/2" = 1'-0"

2 DETAIL - PIER 2 BULKHEAD DEMOLITION
SCALE: 1/2" = 1'-0"

ADDITIVE ALTERNATE BID
JANUARY 22, 2003

30% DESIGN

HYLBOS WATERWAY CLEANUP
SEGMENTS 3 AND 4
SLIP 1 NCD FACILITY DEMOLITION DETAILS

DRAWING NO. C-10A

CONTRACT NO.

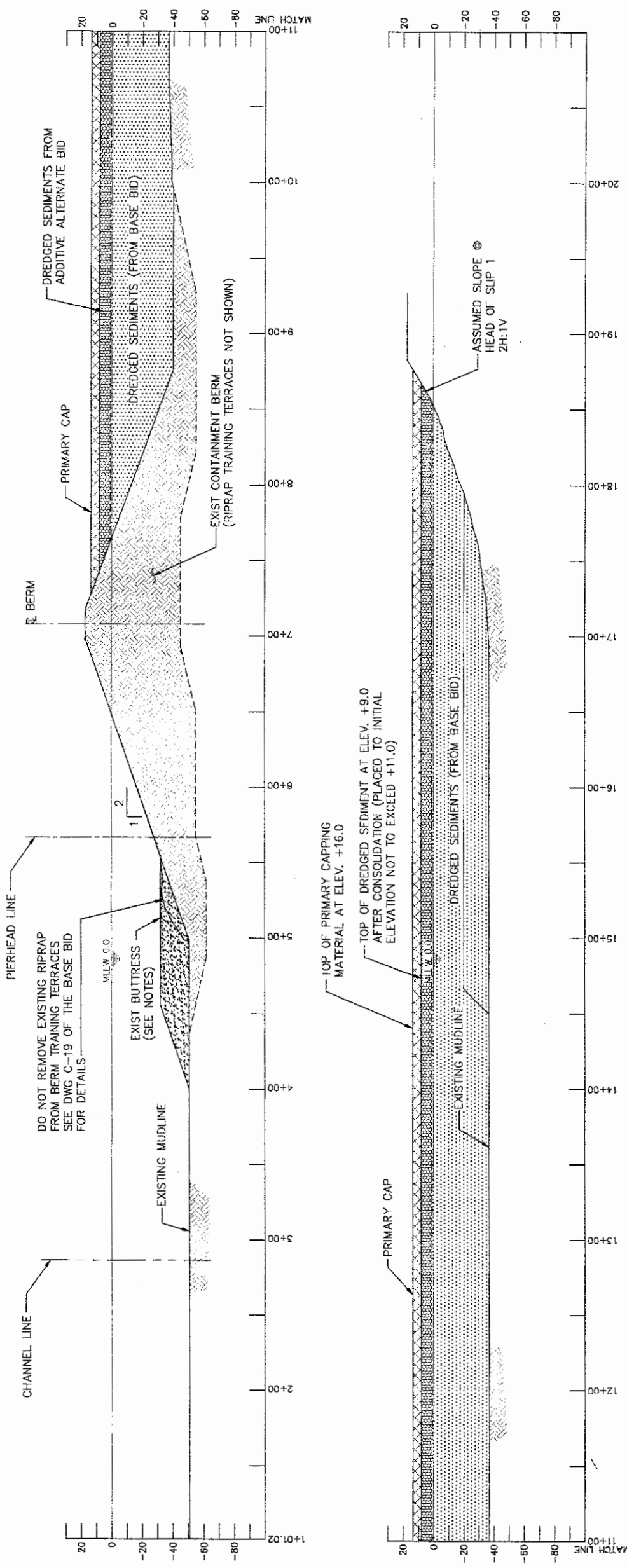
SHEET NO. 12 OF 15



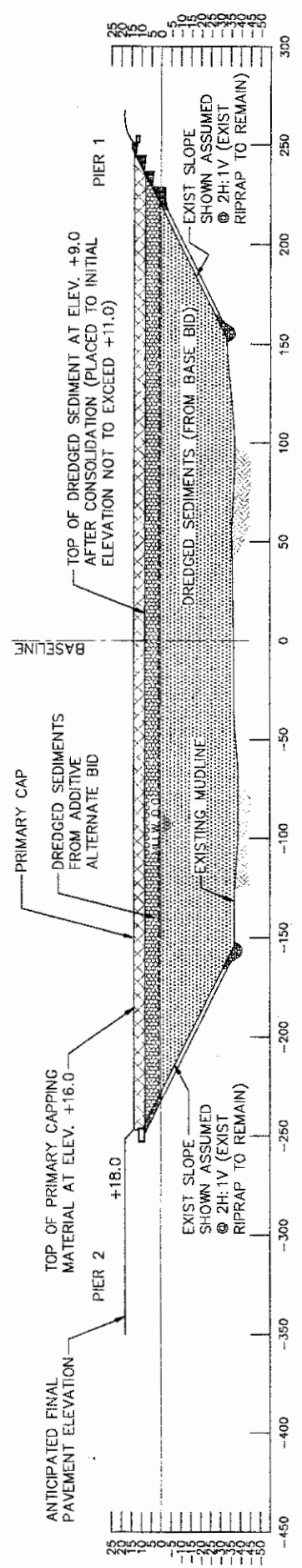
CONSULTANTS:
HART CROWSEY, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.

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2480 Fortune Drive, Suite 300
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(606) 543-2153 FAX: (606) 543-2172



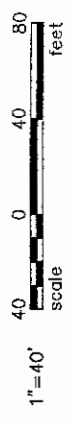


1 LONGITUDINAL SECTION @ BASELINE
SCALE: 1"=40'-0"



2 SECTION @ STA 12+00
SCALE: 1"=40'-0" (LOOKING UP STATION)

- NOTES:**
1. TEMPORARY BUTTRESS MATERIALS TO BE REMOVED AND USED TO CONSTRUCT THE FINAL LIFT OF THE PRIMARY CAP AFTER THE SLIP 1 NCD FACILITY IS FILLED.
 2. IT IS SUGGESTED THAT THE BUTTRESS REMOVAL BE ACCOMPLISHED BY MINING AT THE OUTER TOE AND PROGRESS INWARD TOWARD THE BERM, ALLOWING MATERIAL TO FLOW DOWNHILL TOWARD THE TOE AREA.
 3. DO NOT REMOVE BUTTRESS MATERIALS BELOW ELEVATION -50.0



ADDITIVE ALTERNATE BID
JANUARY 22, 2003

30% DESIGN
HYLEBOS WATERWAY CLEANUP
SEGMENTS 3 AND 4
SLIP 1 NCD FACILITY SECTIONS

DRAWING NO. **C-12A**
CONTRACT NO. **-**
SHEET NO. **14** OF **15**



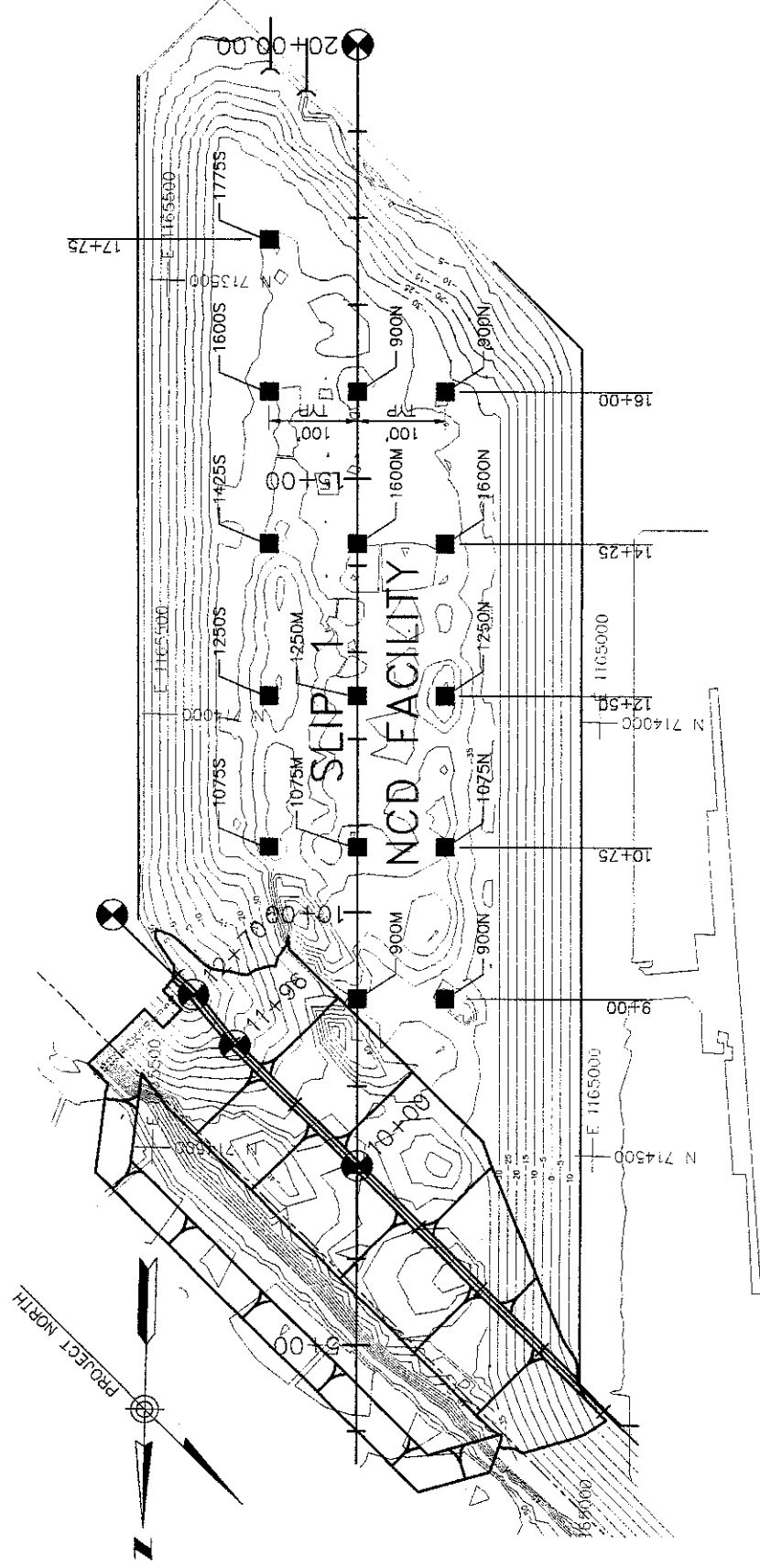
CONSULTANTS:
HART CROWDER, INC.
BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.

GLENN SPRINGS HOLDINGS, INC.
2480 Fortune Drive, Suite 300
Lexington, KY 40509
(606) 543-2153 FAX: (606) 543-2172



NOTES :

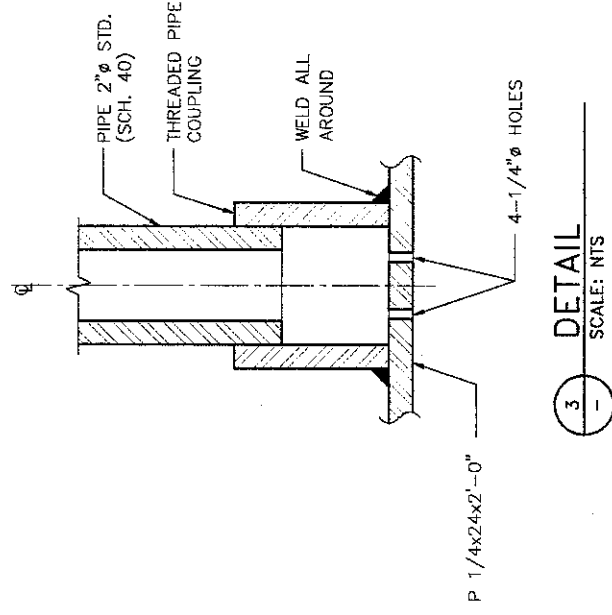
1. SETTLEMENT PLATES AT THE TOP OF PLACED SEDIMENT ARE TO BE INSTALLED AS SHOWN ON THE PLAN. SURVEYED LOCATIONS SHALL BE PROVIDED TO THE ENGINEER. LOCATIONS SHALL BE BY STATIONING AND OFFSET PLUS STATE PLANE COORDINATES.
2. THE CONTRACTOR SHALL EXERCISE CARE SO THAT SETTLEMENT-MONITORING EQUIPMENT IS NOT DISTURBED OR DAMAGED DURING FILL PLACEMENT. DAMAGED SETTLEMENT MONITORING EQUIPMENT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.
3. DURING PLACEMENT OF PRIMARY CAP ALL SETTLEMENT STATIONS SHALL BE MONITORED IN ACCORDANCE WITH THE SPECIFICATIONS.
4. SETTLEMENT PLATES SHALL BE MAINTAINED AND MONITORED BY THE CONTRACTOR AND THE DATA TRANSMITTED TO THE CONTACTING ENTITY AFTER EACH READING. PRIMARY CAP SETTLEMENT PLATES SHALL INCLUDE DATE, SETTLEMENT PLATE IDENTIFICATION NUMBER, ELEVATION AT TOP OF PIPE (TO NEAREST 1/100TH FOOT), AND GROUND ELEVATION ADJACENT TO PIPE (TO NEAREST 1/10TH FOOT).
5. SETTLEMENT MONITORING TRANSDUCERS INSTALLED BY OTHERS (SEE BASE BID) DO NOT REQUIRE CONTRACTOR MONITORING. CARE SHALL BE TAKEN TO PROTECT THESE MONITORING TRANSDUCERS.



1

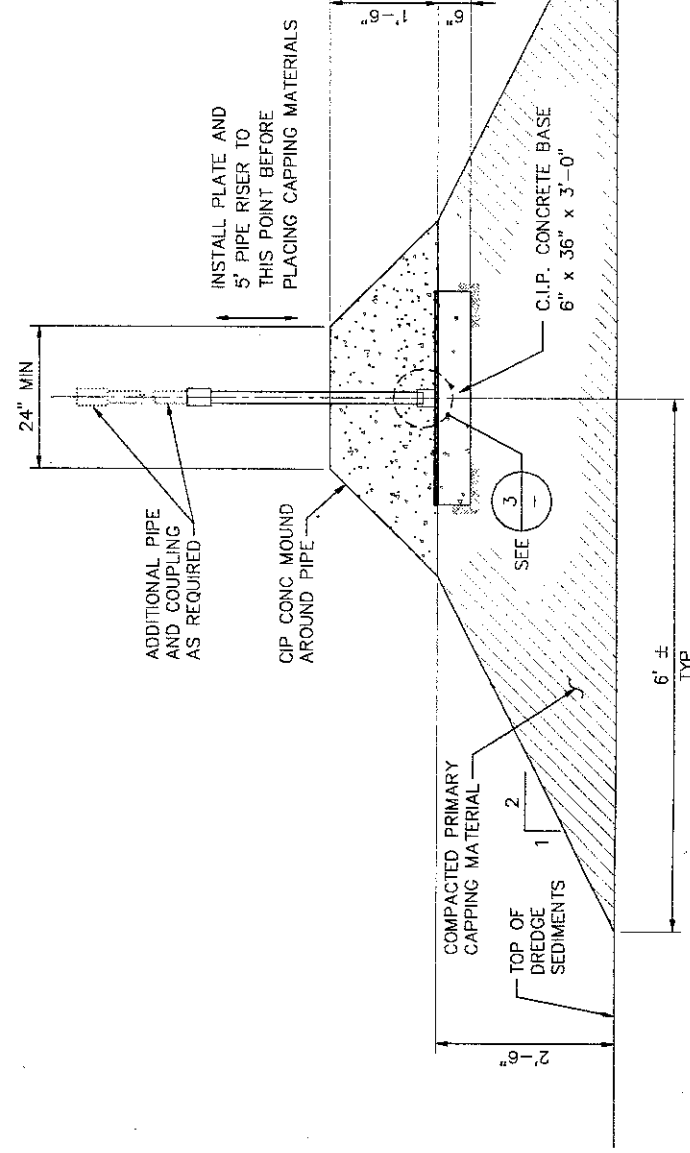
SETTLEMENT MONITORING PLAN

SCALE: 1" = 100'-0"



2 DETAIL -- SETTLEMENT PLATE

(INSTALL PRIOR TO COMMENCEMENT
OF PRIMARY CAP PLACEMENT)



LEGEND

- SETTLEMENT MONITORING STATION (SEE DETAIL 2)
- XX SETTLEMENT MONITORING STATION
IDENTIFICATION NUMBER



ADDITIVE ALTERNATE BID

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BERGER/ABAM ENGINEERS INC.
ANCHOR ENVIRONMENTAL, L.L.C.

[illegible]

HYLEBOS WATERWAY CLEANUP
SEGMENTS 3 AND 4

DRAWING NO. C-13A

CONTRACT NO. _____

SHEET NO. **15** OF **15**