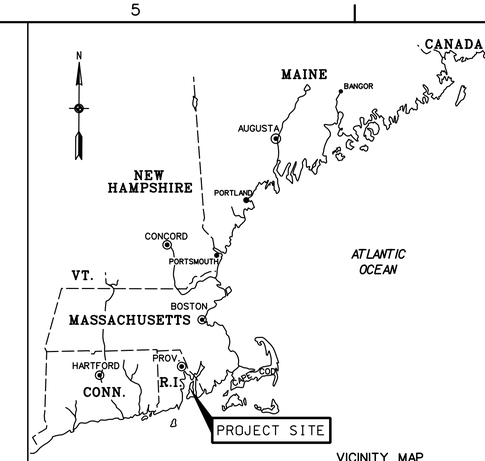
US Army Corps
of Engineers
New England District



VICINITY MAP
NOT TO SCALE

SECTION 1135, COASTAL WETLAND ECOSYSTEM RESTORATION PROJECT

ALLINS COVE, BARRINGTON, RHODE ISLAND

VALUE ENGINEERING PAYS DIVIDENDS

SAFETY PAYS

SOLICITATION # W912WJ-04-B-0011

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CONCORD, MASSACHUSETTS

APPROVED FUNCTIONAL ADEQUACY
Barbara Blumeris /s/ 7/23/04
TECHNICAL LEAD ENGINEER DATE:

REVIEWED BY:
Anthony T. Mackos, P.E. /s/ 7/23/04
CHIEF, DESIGN BRANCH DATE:

REVIEWED BY:
Raimo Liias, P.G. /s/ 7/23/04
CH. HTRW/GEOTECH ENGRG BR DATE:

RECOMMENDED BY:
H. Farrell McMillan, P.E. /s/ 7/23/04
DEPUTY CHIEF, E/P DIV DATE:

APPROVED BY:
David L. Dulong, P.E. /s/ 7/23/04
CHIEF, ENGRG/PLANNING DIV DATE:

THIS PROJECT WAS DESIGNED BY THE NEW ENGLAND DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS, WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152.

SECTION 1135, COASTAL WETLAND
ECOSYSTEM RESTORATION PROJECT
ALLINS COVE,
BARRINGTON, RHODE ISLAND

COVER SHEET

Reference number:
G-1

Sheet 1 of 10

GENERAL NOTES:

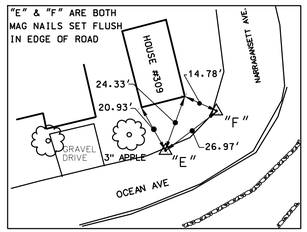
1. THE SURVEY INFORMATION IS FROM THE CORPS OF ENGINEERS' SURVEYS PERFORMED ON OCTOBER 2000 AND MAY 2003.

2. COORDINATES ARE BASED ON THE RHODE ISLAND STATE PLANE COORDINATES (NAD 1983).

3. VERTICAL CONTROL TBM IS AN "X" CUT IN THE NORTH SIDE OF THE RIM OF A SEWER MANHOLE. LOCATED WEST OF A FOOT PATH NORTH OF WILLOW LANE ELEVATION 6.64 NGVD (1929).

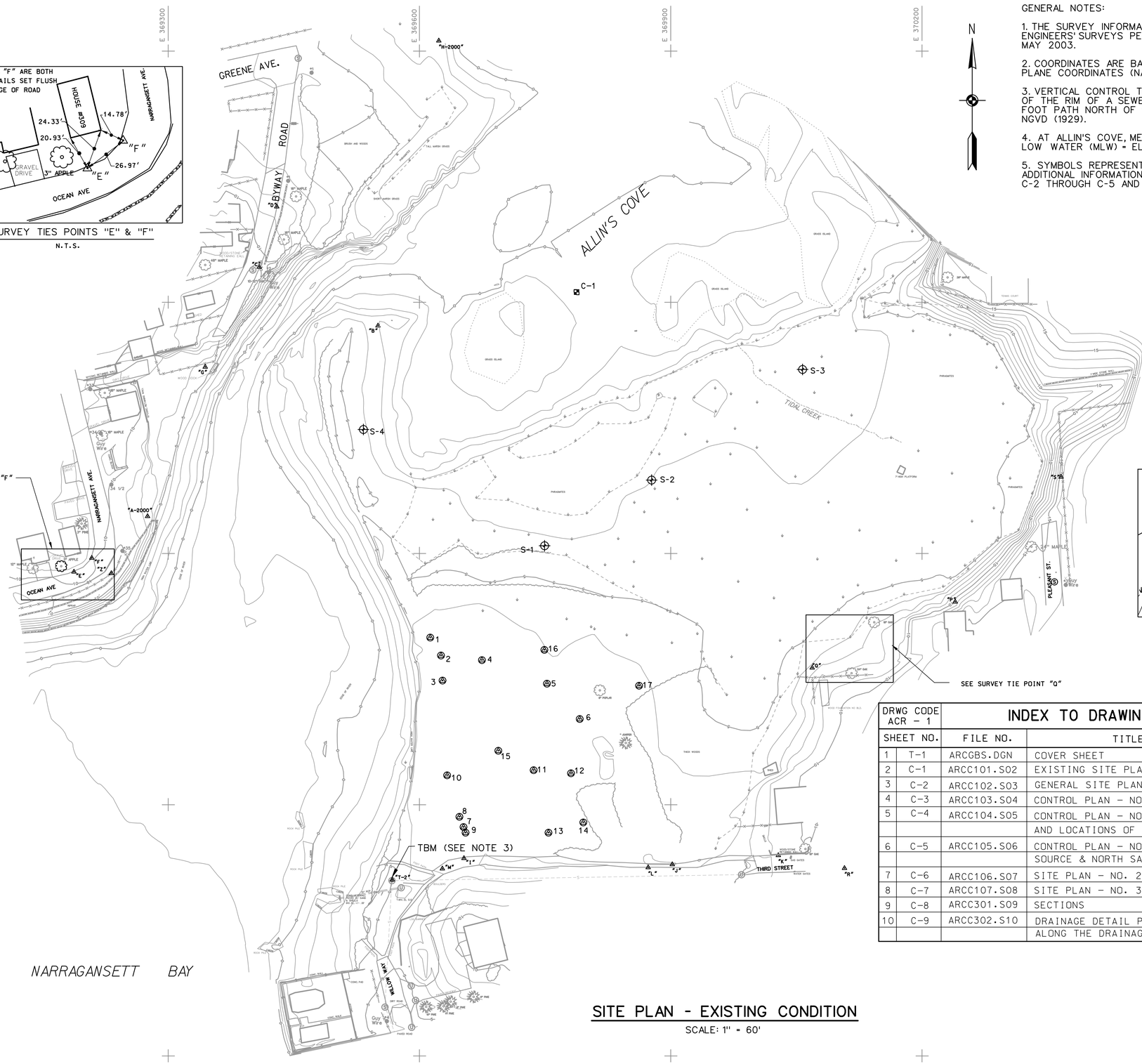
4. AT ALLIN'S COVE, MEAN HIGH WATER (MHW) = EL. 2.9 AND MEAN LOW WATER (MLW) = EL. -1.5 (ALL REFER TO FT NGVD 29)

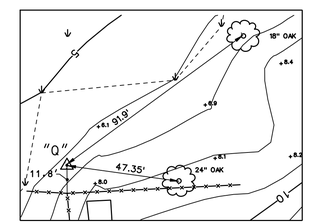
5. SYMBOLS REPRESENT SURFACE EXPLORATION LOCATIONS. ADDITIONAL INFORMATION IS INCLUDED ON SHEETS C-2 THROUGH C-5 AND IN THE SPECIFICATIONS.



SURVEY TIES POINTS "E" & "F"

N.T.S.





SURVEY TIES POINT "Q"

N.T.S.

DRWG CODE ACR - 1		INDEX TO DRAWINGS	
SHEET NO.		FILE NO.	TITLE
1	T-1	ARCGBS.DGN	COVER SHEET
2	C-1	ARCC101.S02	EXISTING SITE PLAN, SURVEY TIES, NOTES AND INDEX
3	C-2	ARCC102.S03	GENERAL SITE PLAN, NOTES AND LEGEND
4	C-3	ARCC103.S04	CONTROL PLAN - NO. 1, CHANNEL, LOW MARSH & HIGH MARSH
5	C-4	ARCC104.S05	CONTROL PLAN - NO. 2, UPLAND DISPOSAL, SOUTH SAND SPIT
			AND LOCATIONS OF TEST HOLES
6	C-5	ARCC105.S06	CONTROL PLAN - NO. 3/ SITE PLAN NO. 1, NORTH SAND
			SOURCE & NORTH SAND SPIT
7	C-6	ARCC106.S07	SITE PLAN - NO. 2, DISPOSAL AREA & SOUTH SAND SPIT
8	C-7	ARCC107.S08	SITE PLAN - NO. 3, CHANNEL, HIGH & LOW MARSHLANDS
9	C-8	ARCC301.S09	SECTIONS
10	C-9	ARCC302.S10	DRAINAGE DETAIL PLAN, HEADWALL DETAIL AND PROFILE
			ALONG THE DRAINAGE PIPE

SITE PLAN - EXISTING CONDITION

SCALE: 1" = 60'

GRAPHIC SCALE:

60 0 30 120

1" = 60'

US Army Corps of Engineers
New England District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

Designed by: Jenny Tan
Drawn by: Jenny Tan
Reviewed by: Robert Meader /s/
Submitted by: Joseph Lampara /s/ Chief, CivilEngrg Sect

Date: 7/23/04
Rev.
Solicitation no. W912WJ-04-B-0011
Drawing code: arc-1
File name: acrc101.s02
Plot date:
Plot scale: 1" = 60'

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CONCORD, MASSACHUSETTS

SECTION 1135, COASTAL WETLAND ECOSYSTEM RESTORATION PROJECT
ALLINS COVE,
BARRINGTON, RHODE ISLAND

EXISTING SITE PLAN, SURVEY TIES, NOTES AND INDEX

Reference number:

C-1

Sheet 2 of 10

NOTE:

FOR INDIVIDUAL CONTROL AND DETAIL SITE PLANS SEE FOLLOWING SHEETS:

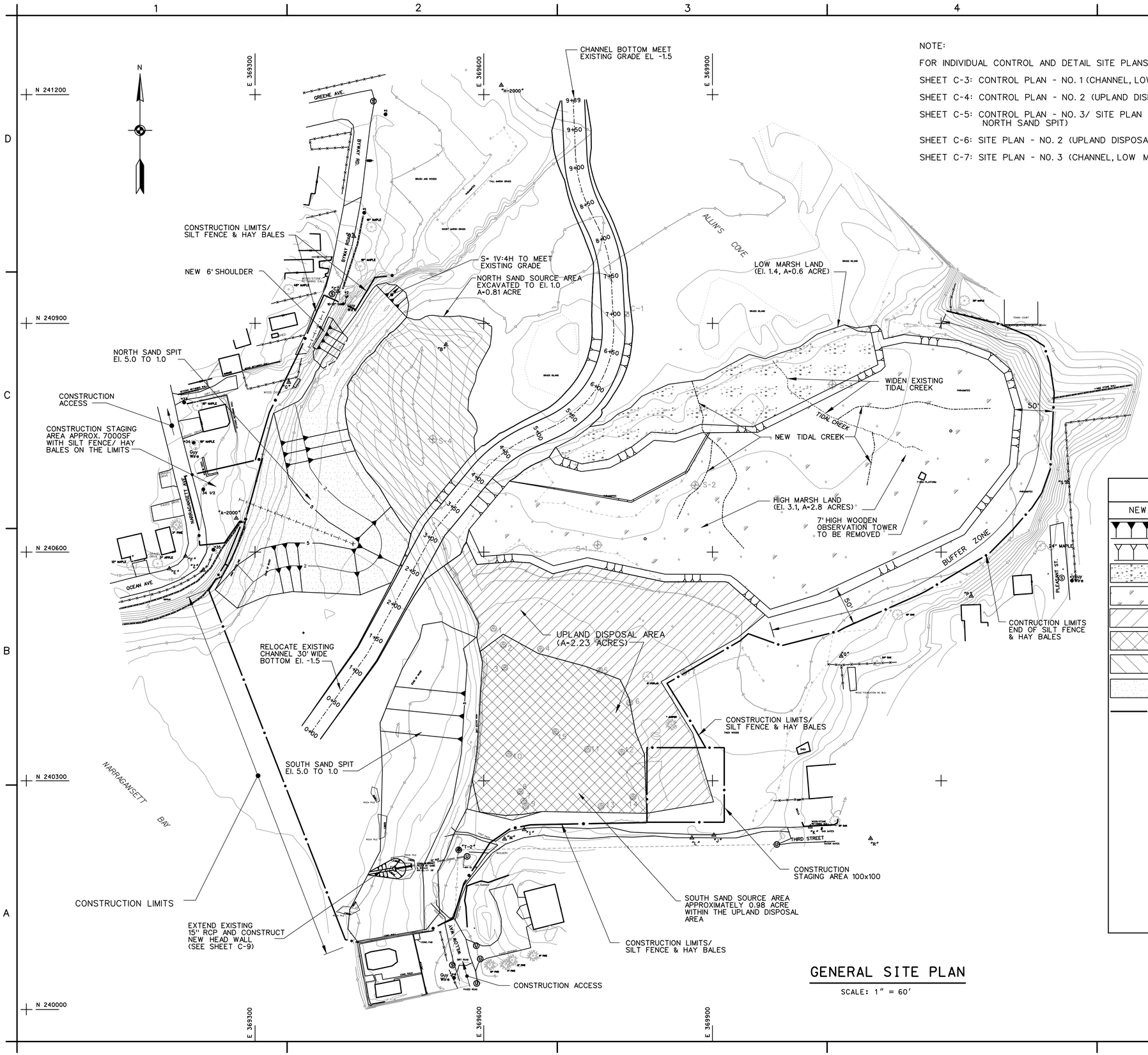
SHEET C-3: CONTROL PLAN - NO. 1 (CHANNEL, LOW MARSHLAND & HIGH MARSHLAND)

SHEET C-4: CONTROL PLAN - NO. 2 (UPLAND DISPOSAL AREA & SOUTH SAND SPIT)

SHEET C-5: CONTROL PLAN - NO. 3/ SITE PLAN -NO. 1 (NORTH SAND SOURCE & NORTH SAND SPIT)

SHEET C-6: SITE PLAN - NO. 2 (UPLAND DISPOSAL AREA & SOUTH SAND SPIT)

SHEET C-7: SITE PLAN - NO. 3 (CHANNEL, LOW MARSHLAND & HIGH MARSHLAND)



GENERAL SITE PLAN

SCALE: 1" = 60'

LEGEND

NEW	EXISTING	DISTRIPTION
		FILL SLOPE
		CUT SLOPE
		LOW MARSHLAND
		HIGH MARSHLAND
		UPLAND DISPOSAL AREA
		SOUTH SAND SOURCE AREA WITHIN UPLAND DISPOASL
		SAND SOURCE AREA
		SAND SPIT
		LIMITS FOR BUFFER ZONE, STAGING AREA AND CONSTRUCTION
		LIMITS OF PHRAGMITES
		CHAIN LINK FENCE
	12	2003 RI CRMC TEST HOLE NUMBER
	S-1	2001 EXPLORATION
	C-1	2003 EXPLORATION
	34 1/2	UTILITY POLE & NUMBER
		EVERGREEN TREE
		TREE
		SURVEY CONTROL POINT
	"A-2000"	2000 SURVEY CONTROL

GRAPHIC SCALE:

1" = 60' 60 0 30 120

US Army Corps of Engineers
New England District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

Designed by: Jenny Tan
Drawn by: Jenny Tan
Reviewed by: Robert Meader /s/
Submitted by: Joseph Lampara /s/ Chief, Civil Engrg Sect

Date: 7/23/04
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Solicitation no. W912WJ-04-B-0011
Drawing code: arc-1
File name: acrc102.s03
Plot date:
Plot scale: 1" = 60'

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CONCORD, MASSACHUSETTS

SECTION 1135, COASTAL WETLAND ECOSYSTEM RESTORATION PROJECT
ALLINS COVE,
BARRINGTON, RHODE ISLAND

GENERAL SITE PLAN, NOTES AND LEGEND

Reference number:
C-2

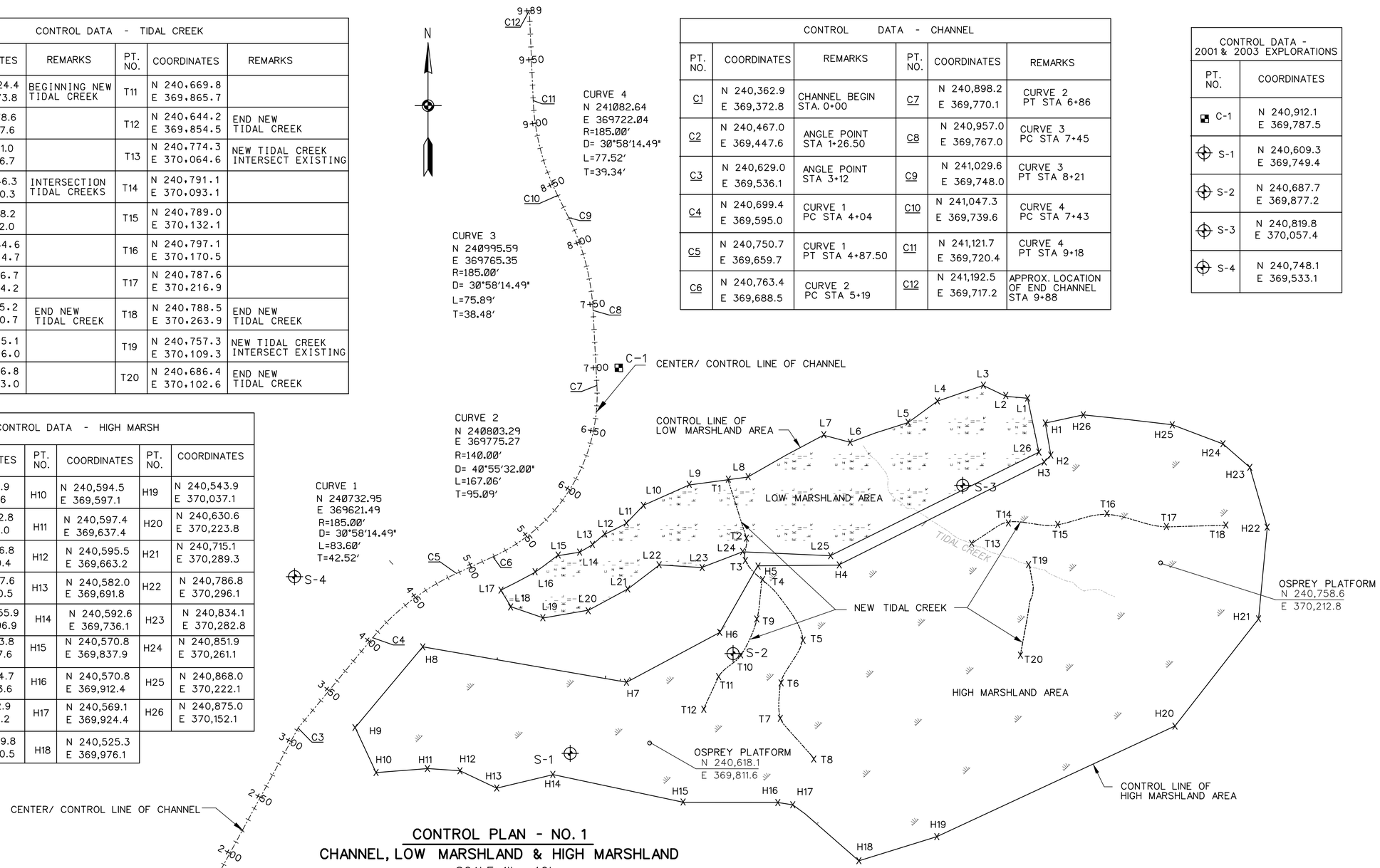
Sheet 3 of 10

CONTROL DATA - TIDAL CREEK					
PT. NO.	COORDINATES	REMARKS	PT. NO.	COORDINATES	REMARKS
T1	N 240,824.4 E 369,873.8	BEGINNING NEW TIDAL CREEK	T11	N 240,669.8 E 369,865.7	
T2	N 240,778.6 E 369,887.6		T12	N 240,644.2 E 369,854.5	END NEW TIDAL CREEK
T3	N 240,761.0 E 369,886.7		T13	N 240,774.3 E 370,064.6	NEW TIDAL CREEK INTERSECT EXISTING
T4	N 240,746.3 E 369,900.3	INTERSECTION TIDAL CREEKS	T14	N 240,791.1 E 370,093.1	
T5	N 240,698.2 E 369,932.0		T15	N 240,789.0 E 370,132.1	
T6	N 240,664.6 E 369,914.7		T16	N 240,797.1 E 370,170.5	
T7	N 240,636.7 E 369,914.2		T17	N 240,787.6 E 370,216.9	
T8	N 240,605.2 E 369,940.7	END NEW TIDAL CREEK	T18	N 240,788.5 E 370,263.9	END NEW TIDAL CREEK
T9	N 240,715.1 E 369,896.0		T19	N 240,757.3 E 370,109.3	NEW TIDAL CREEK INTERSECT EXISTING
T10	N 240,686.8 E 369,883.0		T20	N 240,686.4 E 370,102.6	END NEW TIDAL CREEK

CONTROL DATA - HIGH MARSH					
PT. NO.	COORDINATES	PT. NO.	COORDINATES	PT. NO.	COORDINATES
H1	N 240,868.9 E 370,122.6	H10	N 240,594.5 E 369,597.1	H19	N 240,543.9 E 370,037.1
H2	N 240,842.8 E 370,127.0	H11	N 240,597.4 E 369,637.4	H20	N 240,630.6 E 370,223.8
H3	N 240,836.8 E 370,120.4	H12	N 240,595.5 E 369,663.2	H21	N 240,715.1 E 370,289.3
H4	N 240,757.6 E 369,960.5	H13	N 240,582.0 E 369,691.8	H22	N 240,786.8 E 370,296.1
H5	N 240,755.9 E 369,896.9	H14	N 240,592.6 E 369,736.1	H23	N 240,834.1 E 370,282.8
H6	N 240,703.8 E 369,867.6	H15	N 240,570.8 E 369,837.9	H24	N 240,851.9 E 370,261.1
H7	N 240,664.7 E 369,793.6	H16	N 240,570.8 E 369,912.4	H25	N 240,868.0 E 370,222.1
H8	N 240,692.9 E 369,633.2	H17	N 240,569.1 E 369,924.4	H26	N 240,875.0 E 370,152.1
H9	N 240,629.8 E 369,580.5	H18	N 240,525.3 E 369,976.1		

CONTROL DATA - CHANNEL					
PT. NO.	COORDINATES	REMARKS	PT. NO.	COORDINATES	REMARKS
C1	N 240,362.9 E 369,372.8	CHANNEL BEGIN STA. 0+00	C7	N 240,898.2 E 369,770.1	CURVE 2 PT STA 6+86
C2	N 240,467.0 E 369,447.6	ANGLE POINT STA 1+26.50	C8	N 240,957.0 E 369,767.0	CURVE 3 PC STA 7+45
C3	N 240,629.0 E 369,536.1	ANGLE POINT STA 3+12	C9	N 241,029.6 E 369,748.0	CURVE 3 PT STA 8+21
C4	N 240,699.4 E 369,595.0	CURVE 1 PC STA 4+04	C10	N 241,047.3 E 369,739.6	CURVE 4 PC STA 7+43
C5	N 240,750.7 E 369,659.7	CURVE 1 PT STA 4+87.50	C11	N 241,121.7 E 369,720.4	CURVE 4 PT STA 9+18
C6	N 240,763.4 E 369,688.5	CURVE 2 PC STA 5+19	C12	N 241,192.5 E 369,717.2	APPROX. LOCATION OF END CHANNEL STA 9+88

CONTROL DATA - 2001 & 2003 EXPLORATIONS	
PT. NO.	COORDINATES
C-1	N 240,912.1 E 369,787.5
S-1	N 240,609.3 E 369,749.4
S-2	N 240,687.7 E 369,877.2
S-3	N 240,819.8 E 370,057.4
S-4	N 240,748.1 E 369,533.1



CONTROL PLAN - NO. 1
CHANNEL, LOW MARSHLAND & HIGH MARSHLAND
SCALE: 1" = 40'

CONTROL DATA - LOW MARSH AREA													
PT. NO.	COORDINATES	PT. NO.	COORDINATES	PT. NO.	COORDINATES	PT. NO.	COORDINATES	PT. NO.	COORDINATES	PT. NO.	COORDINATES	PT. NO.	COORDINATES
L1	N 240,887.9 E 370,108.0	L5	N 240,869.3 E 370,014.5	L9	N 240,820.8 E 369,843.0	L13	N 240,773.3 E 369,767.0	L17	N 240,737.9 E 369,695.1	L21	N 240,738.5 E 369,794.7	L25	N 240,764.5 E 369,953.6
L2	N 240,890.0 E 370,090.5	L6	N 240,853.9 E 369,969.5	L10	N 240,804.2 E 369,807.0	L14	N 240,767.8 E 369,756.6	L18	N 240,725.1 E 369,702.0	L22	N 240,758.0 E 369,819.0	L26	N 240,845.5 E 370,116.4
L3	N 240,898.4 E 370,073.4	L7	N 240,859.1 E 369,948.6	L11	N 240,790.5 E 369,793.4	L15	N 240,765.1 E 369,739.7	L19	N 240,715.8 E 369,727.9	L23	N 240,756.2 E 369,853.6		
L4	N 240,885.9 E 370,037.4	L8	N 240,826.9 E 369,889.2	L12	N 240,782.0 E 369,776.9	L16	N 240,752.9 E 369,721.1	L20	N 240,721.6 E 369,763.0	L24	N 240,767.7 E 369,885.0		

GRAPHIC SCALE:
1" = 40'
40 0 40 80

US Army Corps of Engineers
New England District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

Date: 7/23/04
Rev.
Solicitation no. W912NJ-04-B-0011
Drawing code: arc-1
File name: arc103.a04
Plot date:
Plot scale: 1" = 40'

Designed by: Jenny Tan
Drawn by: Jenny Tan
Reviewed by: Robert Meader /s/
Submitted by: Joseph Lamacra /s/
Chief, Civil Engrg Sect.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CONCORD, MASSACHUSETTS

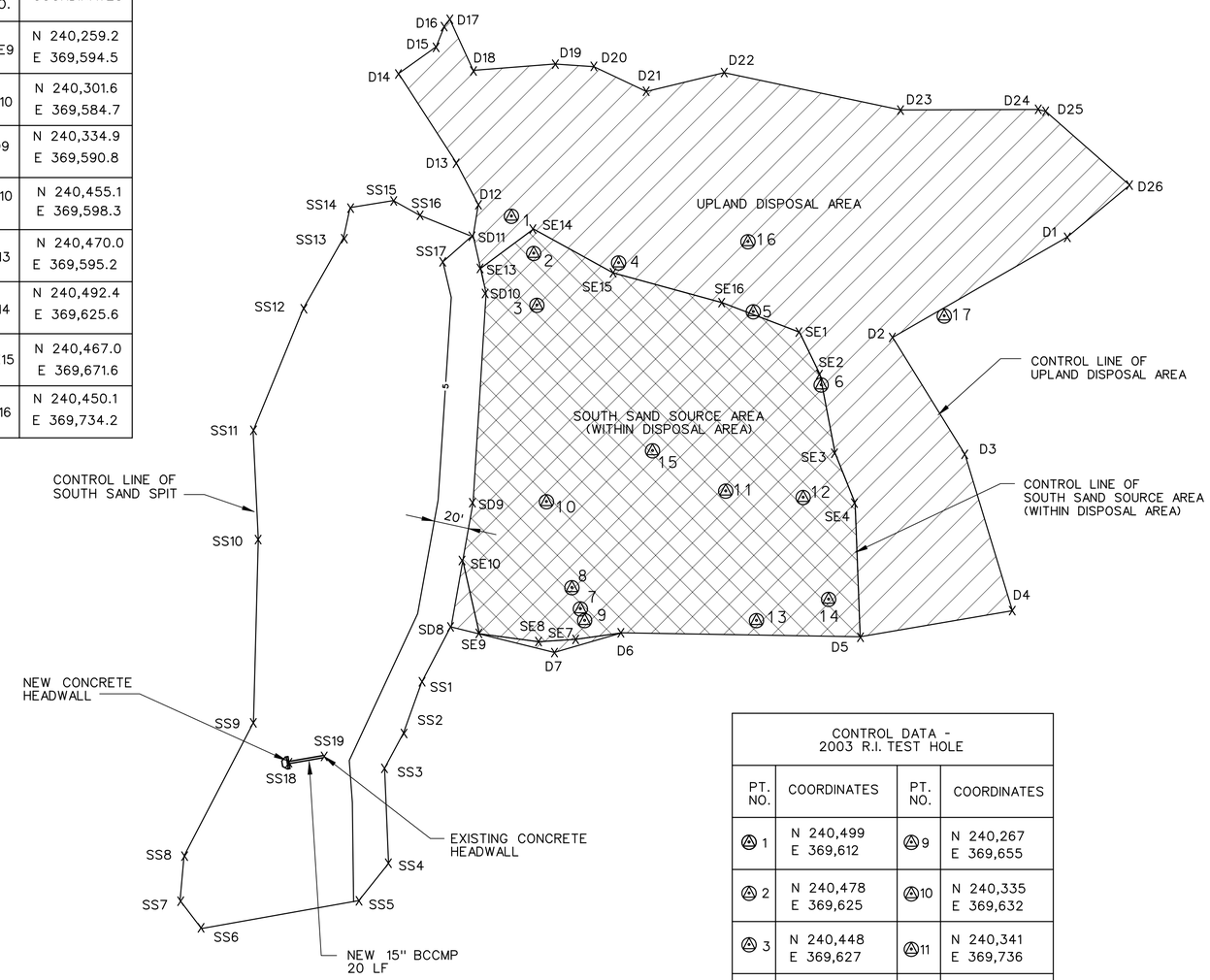
SECTION 1135, COASTAL WETLAND ECOSYSTEM RESTORATION PROJECT
ALLINS COVE,
BARRINGTON, RHODE ISLAND
CONTROL PLAN - NO. 1
CHANNEL, LOW MARSH & HIGH MARSH

Reference number:
C-3
Sheet 4 of 10

CONTROL DATA - DISPOSAL AREA					
PT. NO.	COORDINATES (SHARED)	PT. NO.	COORDINATES	PT. NO.	COORDINATES
D1	N 240,487.7 E 369,933.1	SD10	N 240,455.1 E 369,598.3	D19	N 240,586.9 E 369,637.8
D2	N 240,429.9 E 369,832.5	SD11	N 240,488.3 E 369,590.8	D20	N 240,585.9 E 369,660.3
D3	N 240,362.3 E 369,874.3	D12	N 240,505.8 E 369,593.7	D21	N 240,571.4 E 369,689.9
D4	N 240,272.2 E 369,901.4	D13	N 240,530.2 E 369,581.2	D22	N 240,582.6 E 369,736.0
D5	N 240,257.7 E 369,813.7	D14	N 240,581.6 E 369,547.9	D23	N 240,561.2 E 369,836.9
D6	N 240,259.8 E 369,675.9	D15	N 240,596.8 E 369,569.6	D24	N 240,561.2 E 369,916.3
D7	N 240,248.3 E 369,637.7	D16	N 240,609.0 E 369,573.9	D25	N 240,560.5 E 369,921.3
SD8	N 240,263.0 E 369,578.0	D17	N 240,613.6 E 369,577.5	D26	N 240,517.0 E 369,969.0
SD9	N 240,334.9 E 369,590.8	D18	N 240,583.6 E 369,591.0		

CONTROL DATA - SOUTH SAND SOURCE EXCAVATION			
PT. NO.	COORDINATES	PT. NO.	COORDINATES
SE1	N 240,432.8 E 369,778.9	SE9	N 240,259.2 E 369,594.5
SE2	N 240,408.2 E 369,790.9	SE10	N 240,301.6 E 369,584.7
SE3	N 240,363.1 E 369,799.4	SD9	N 240,334.9 E 369,590.8
SE4	N 240,334.1 E 369,810.9	SD10	N 240,455.1 E 369,598.3
D5	N 240,257.7 E 369,813.7	SE13	N 240,470.0 E 369,595.2
D6	N 240,259.8 E 369,675.9	SE14	N 240,492.4 E 369,625.6
SE7	N 240,256.1 E 369,650.3	SE15	N 240,467.0 E 369,671.6
SE8	N 240,254.6 E 369,628.8	SE16	N 240,450.1 E 369,734.2

CONTROL DATA - SOUTH SAND SPIT					
PT. NO.	COORDINATES (SHARED)	PT. NO.	COORDINATES	PT. NO.	COORDINATES
SD8	N 240,263.0 E 369,578.0	SS4	N 240,127.0 E 369,542.8	SS12	N 240,445.9 E 369,493.7
SD9	N 240,334.9 E 369,590.8	SS5	N 240,105.0 E 369,525.5	SS13	N 240,486.3 E 369,517.0
SD10	N 240,455.1 E 369,598.3	SS6	N 240,089.6 E 369,434.2	SS14	N 240,503.9 E 369,520.6
SD11	N 240,488.3 E 369,590.8	SS7	N 240,104.6 E 369,422.8	SS15	N 240,508.0 E 369,545.4
		SS8	N 240,131.4 E 369,425.4	SS16	N 240,500.3 E 369,560.4
SS1	N 240,232.3 E 369,562.2	SS9	N 240,208.0 E 369,464.7	SS17	N 240,473.4 E 369,572.9
SS2	N 240,201.1 E 369,551.2	SS10	N 240,312.9 E 369,467.3		
SS3	N 240,181.3 E 369,540.3	SS11	N 240,376.5 E 369,464.7		
PT. NO.	COORDINATES	REMARKS			
SS18	N 240,184.8 E 369,484.7	APPROX. LOCATION OF NEW HEADWALL/ END 20-LF OF 15" BCCMP TO BE VERIFIED IN THE FIELD			
SS19	N 240,188.4 E 369,504.9	APPROXIMATE LOCATION OF EXISTING CONCRETE HEADWALL. ACTUAL LOCATION SHALL BE VERIFIED IN FIELD			



CONTROL DATA - 2003 R.I. TEST HOLE			
PT. NO.	COORDINATES	PT. NO.	COORDINATES
1	N 240,499 E 369,612	9	N 240,267 E 369,655
2	N 240,478 E 369,625	10	N 240,335 E 369,632
3	N 240,448 E 369,627	11	N 240,341 E 369,736
4	N 240,473 E 369,675	12	N 240,338 E 369,781
5	N 240,445 E 369,752	13	N 240,267 E 369,754
6	N 240,402 E 369,791	14	N 240,279 E 369,795
7	N 240,273 E 369,653	15	N 240,365 E 369,693
8	N 240,285 E 369,647	16	N 240,486 E 369,749
		17	N 240,442 E 369,862

GRAPHIC SCALE:
1" = 40'
40 0 40 80

CONTROL PLAN - NO. 2
UPLAND DISPOSAL AREA, SOUTH SAND SOURCE & SOUTH SAND SPIT

SCALE: 1" = 40'

US Army Corps of Engineers
New England District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

Date: 7/23/04 Rev.
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Drawing code: arc-1
File name: scrc04.a05
Plot date:
Plot scale: 1" = 40'

Designed by: Jenny Tan
Drawn by: Jenny Tan
Reviewed by: Robert Meader /s/
Submitted by: Joseph Lamparo /s/ Chief, Civil Engrg Sect

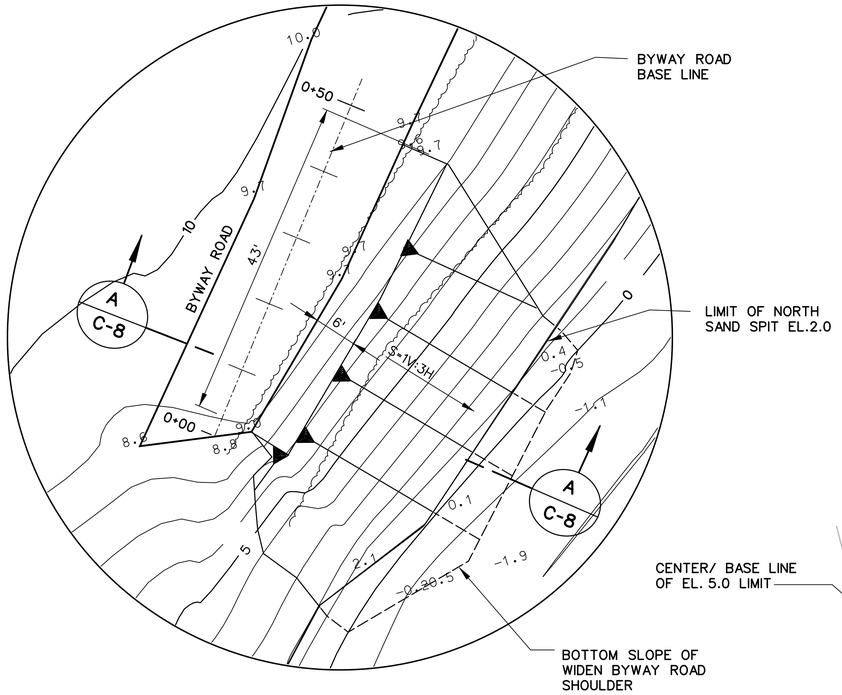
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CONCORD, MASSACHUSETTS

SECTION 1135, COASTAL WETLAND ECOSYSTEM RESTORATION PROJECT
ALLINS COVE,
BARRINGTON, RHODE ISLAND

CONTROL PLAN - NO. 2
UPLAND DISPOSAL, SOUTH SAND SPIT AND LOCATIONS OF TEST HOLES

Reference number:
C-4

Sheet 5 of 10



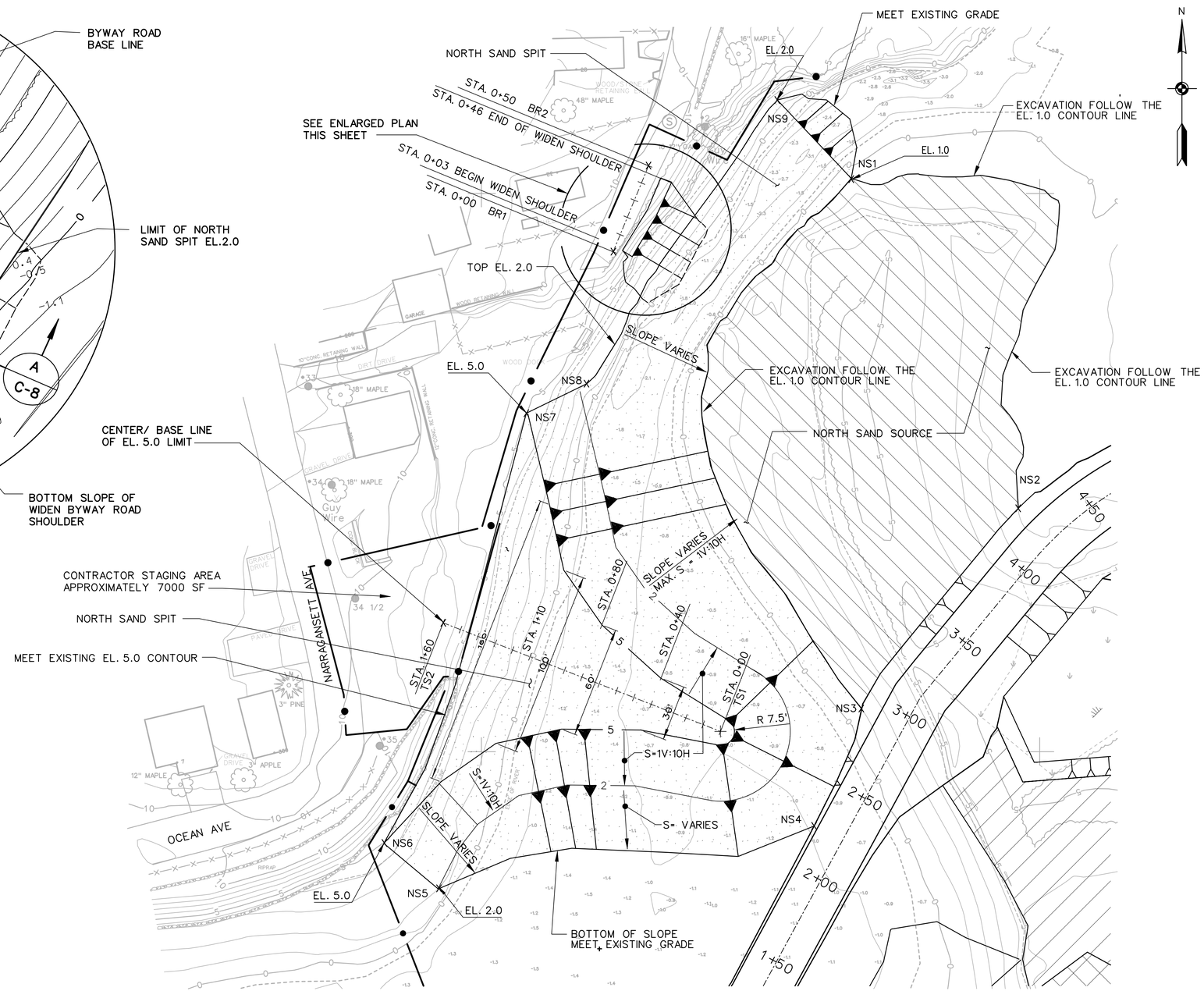
ENLARGED PLAN

SCALE: 1" = 10'

NOTE:

ONLY SAND FROM ON-SITE SOURCES WILL BE UTILIZED TO CONSTRUCT THE NORTH SAND SPIT.

CONTROL DATA - NORTH SAND SPIT/ SOURCE		
PT. NO.	COORDINATES	REMARKS
NS1	N 240,907.8 E 369,498.7	BOTTOM SLOPE OF END OF NORTH SAND SPIT
NS2	N 240,730.9 E 369,588.3	EXCAVATED EL 1.0 MEET THE CHANNEL EXCAVATION SLOPE
NS3	N 240,622.8 E 369,504.1	EXCAVATED EL 1.0 MEET THE CHANNEL EXCAVATION SLOPE
NS4	N 240,560.0 E 369,478.3	NORTH SAND SPIT MEET EXCAVATED CHANNEL SLOPE
NS5	N 240,526.5 E 369,277.0	BOTTOM SLOPE OF END OF NORTH SAND SPIT
NS6	N 240,551.2 E 369,247.5	TOP SLOPE OF END OF NORTH SAND SPIT
NS7		OUTSIDE PRIVATE PROPERTY LINE, TO BE DETERMINED
NS8	N 240,797.7 E 369,356.1	BEGIN OF EL. 2.0 SAND SPIT
NS9	N 240,950.4 E 369,459.0	END OF EL. 2.0 SAND SPIT
BASE LINE OF EL. 5.0 - NORTH SAND SPIT		
TS1	N 240,611.0 E 369,428.5	CENTER OF 15' DIAMETER END/ STATION 0+00
TS2	N 240,670.0 E 369,279.4	STATION 1+60
BASE LINE WIDEN THE SHOULDER OF BYWAY RD		
BR1	N 240,868.6 E 369,370.7	STATION 0+00
BR2	N 240,915.1 E 369,389.9	STATION 0+50



CONTROL PLAN - NO.3/ SITE PLAN - NO.1
NORTH SAND SOURCE & NORTH SAND SPIT

SCALE: 1" = 30'

GRAPHIC SCALES:

1" = 30' 30 0 30 60

1" = 10' 10 0 10 20

US Army Corps of Engineers
New England District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

Designed by: Jenny Tan
Drawn by: Jenny Tan
Reviewed by: Robert Meader /s/
Submitted by: Joseph Lampara /s/ Chief, Civil Engrg Sect

Date: 7/23/04
Rev.
Solicitation no. W912WJ-04-B-0011
Drawing code: arc-1
File name: acrc105.s06
Plot date:
Plot scale: 1" = 30'

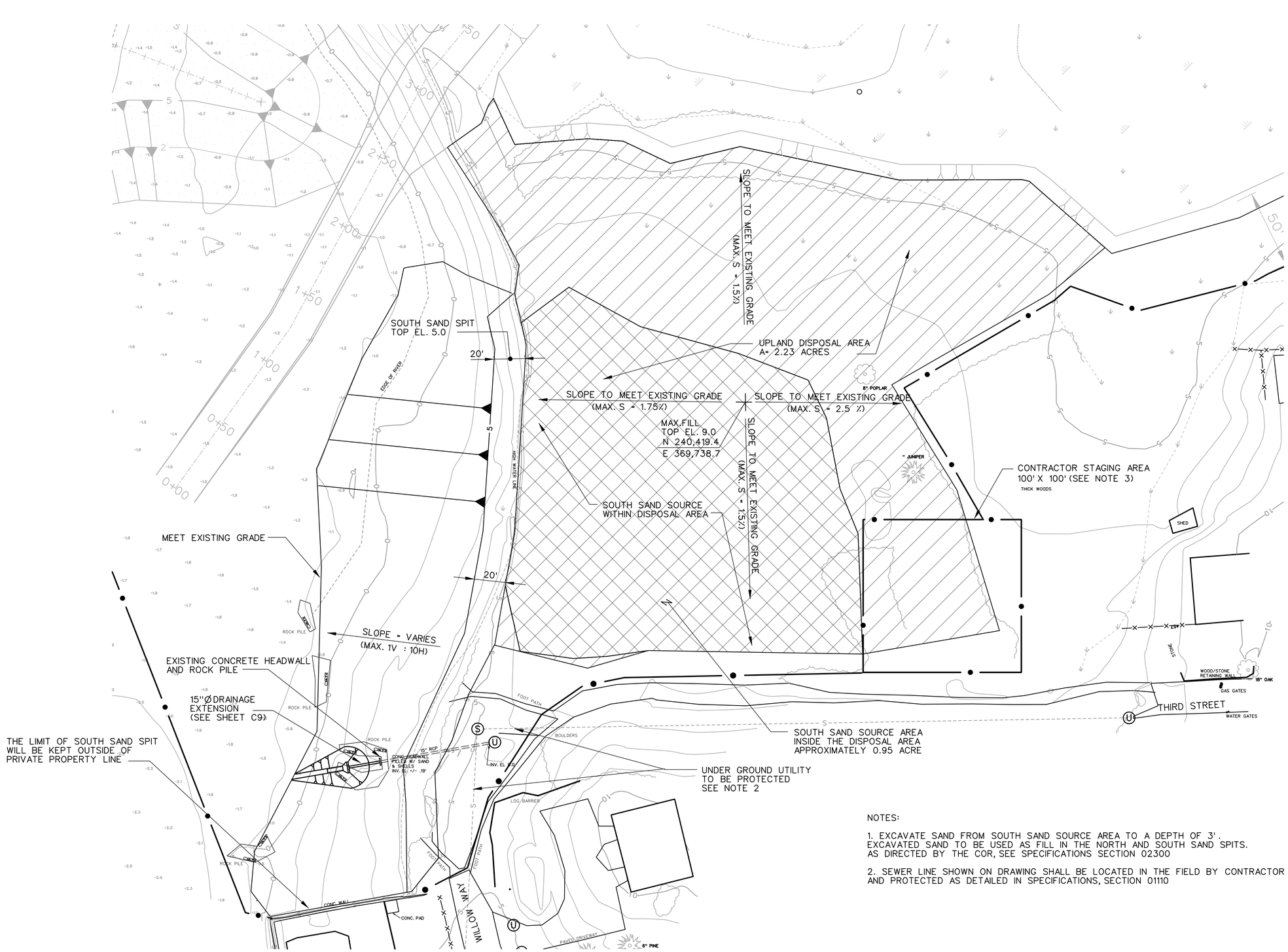
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CONCORD, MASSACHUSETTS

SECTION 1135, COASTAL WETLAND ECOSYSTEM RESTORATION PROJECT
ALLINS COVE,
BARRINGTON, RHODE ISLAND

CONTROL PLAN NO. 3/SITE PLAN NO. 1
NORTH SAND SOURCE
& NORTH SAND SPIT

Reference number:
C-5

Sheet 6 of 10



NOTES:

1. EXCAVATE SAND FROM SOUTH SAND SOURCE AREA TO A DEPTH OF 3'. EXCAVATED SAND TO BE USED AS FILL IN THE NORTH AND SOUTH SAND SPITS. AS DIRECTED BY THE COR, SEE SPECIFICATIONS SECTION 02300

2. SEWER LINE SHOWN ON DRAWING SHALL BE LOCATED IN THE FIELD BY CONTRACTOR AND PROTECTED AS DETAILED IN SPECIFICATIONS, SECTION 01110

SITE PLAN - NO. 2
(UPLAND DISPOSAL AREA & SOUTH SAND SPIT)

SCALE: 1" = 30'

GRAPHIC SCALE:
1" = 30'
30 0 30 60

US Army Corps of Engineers
New England District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CONCORD, MASSACHUSETTS

Designed by: Jenny Tan
Drawn by: Jenny Tan
Reviewed by: Robert Meader /s/
Submitted by: Joseph Lampara /s/ Chief, Civil Engrg Sect

Date: 7/23/04
Rev.
Solicitation no. W912WJ-04-B-0011
Drawing code: arc-1
File name: acrc106.s07
Plot date:
Plot scale: 1" = 30'

SECTION 1135, COASTAL WETLAND ECOSYSTEM RESTORATION PROJECT
ALLINS COVE,
BARRINGTON, RHODE ISLAND

SITE PLAN - NO. 2
DISPOSAL AREA & SOUTH SAND SPIT

Reference number:
C-6

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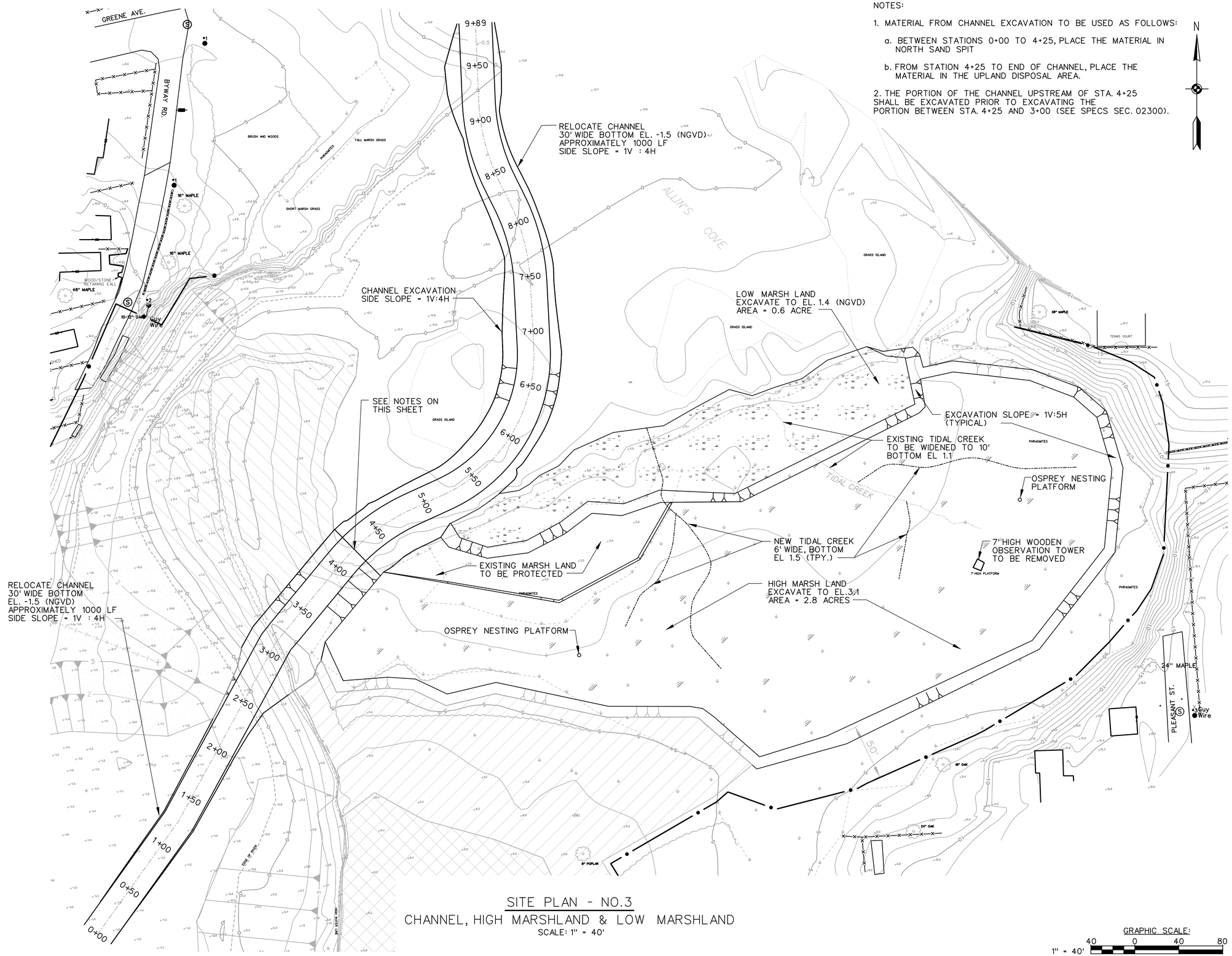
NOTES:

1. MATERIAL FROM CHANNEL EXCAVATION TO BE USED AS FOLLOWS:
   a. BETWEEN STATIONS 0+00 TO 4+25, PLACE THE MATERIAL IN NORTH SAND SPIT
   b. FROM STATION 4+25 TO END OF CHANNEL, PLACE THE MATERIAL IN THE UPLAND DISPOSAL AREA.
2. THE PORTION OF THE CHANNEL UPSTREAM OF STA. 4+25 SHALL BE EXCAVATED PRIOR TO EXCAVATING THE PORTION BETWEEN STA. 4+25 AND 3+00 (SEE SPECS SEC. 02300).



SITE PLAN - NO.3

CHANNEL, HIGH MARSHLAND & LOW MARSHLAND

SCALE: 1" = 40'

GRAPHIC SCALE:

1" = 40' 40 0 40 80

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New England District

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Submitted by: Joseph Lampara /s/ Chief, Civil Engrg Sect
Date: 7/23/04
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Plot date:
Plot scale: 1" = 40'

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SECTION 1135, COASTAL WETLAND ECOSYSTEM RESTORATION PROJECT
ALLINS COVE,
BARRINGTON, RHODE ISLAND

SITE PLAN - NO. 3
CHANNEL, HIGH & LOW MARSHLANDS

Reference number:
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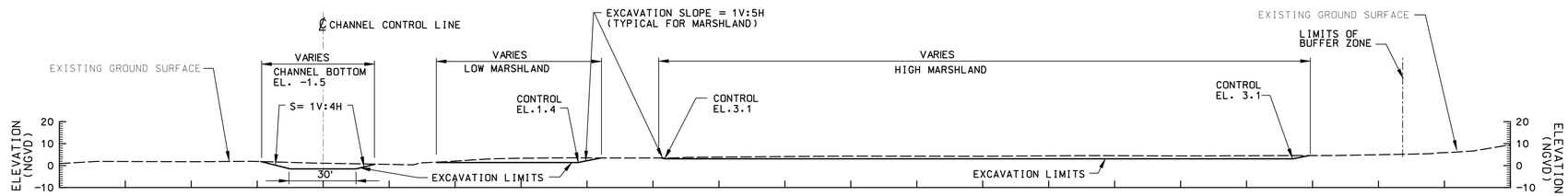
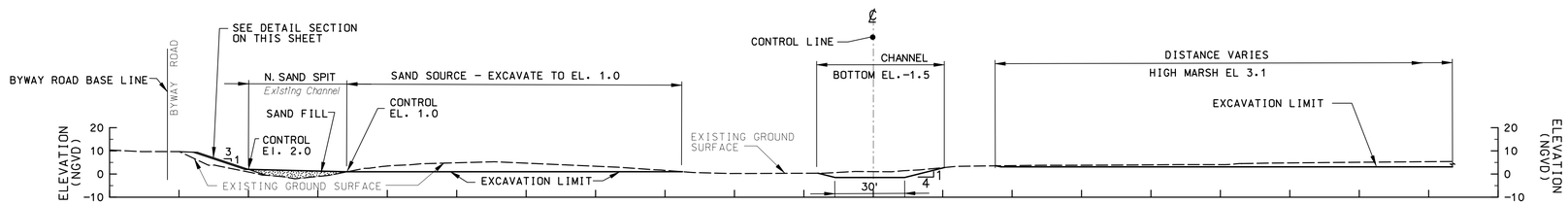
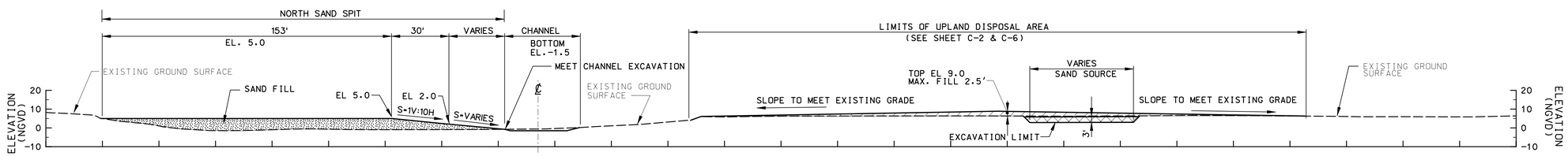


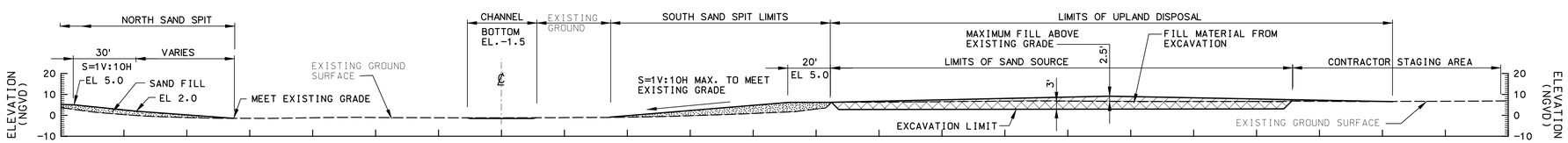
CHANNEL STATION 6+00



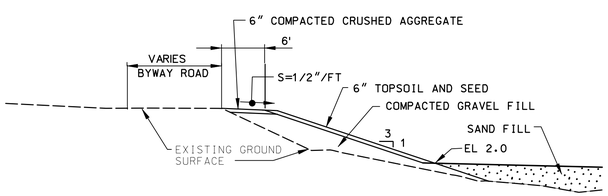
CHANNEL STATION 4+50



CHANNEL STATION 2+50



CHANNEL STATION 1+50



SECTION A C-5
SCALE: 1"= 10'

SECTIONS
SCALE: 1"= 30'

GRAPHIC SCALES:
1" = 30' 30 0 30 60
1" = 10' 10 0 10 20

US Army Corps of Engineers
New England District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

Date: 7/23/04 Rev.
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Drawing code: arc-1
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Plot date: Plot scale: 1" = 30'

Designed by: Jenny Tan
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SECTIONS

Reference number:
C-8

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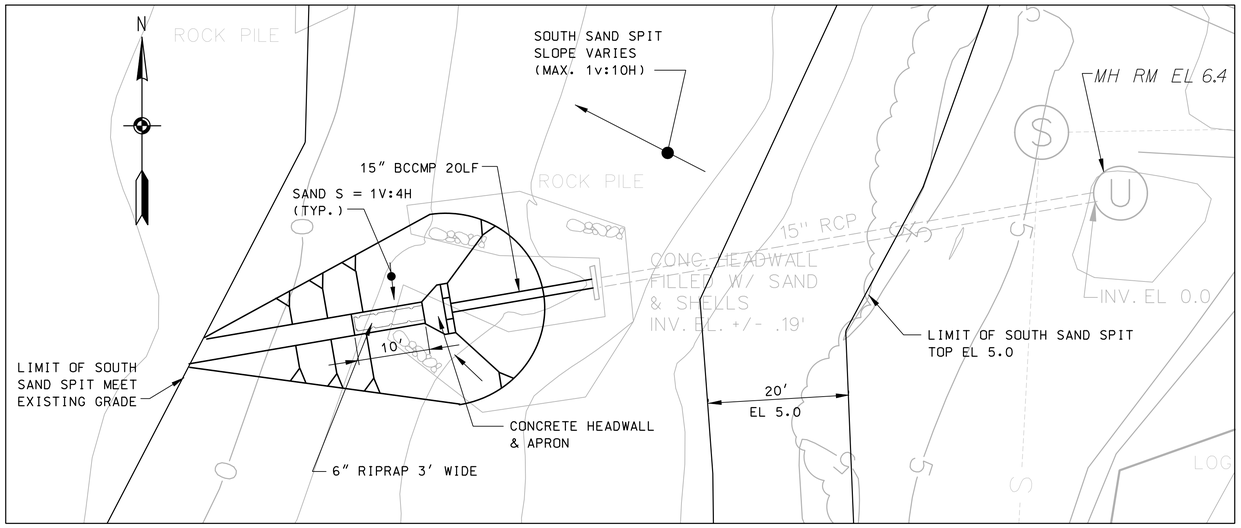
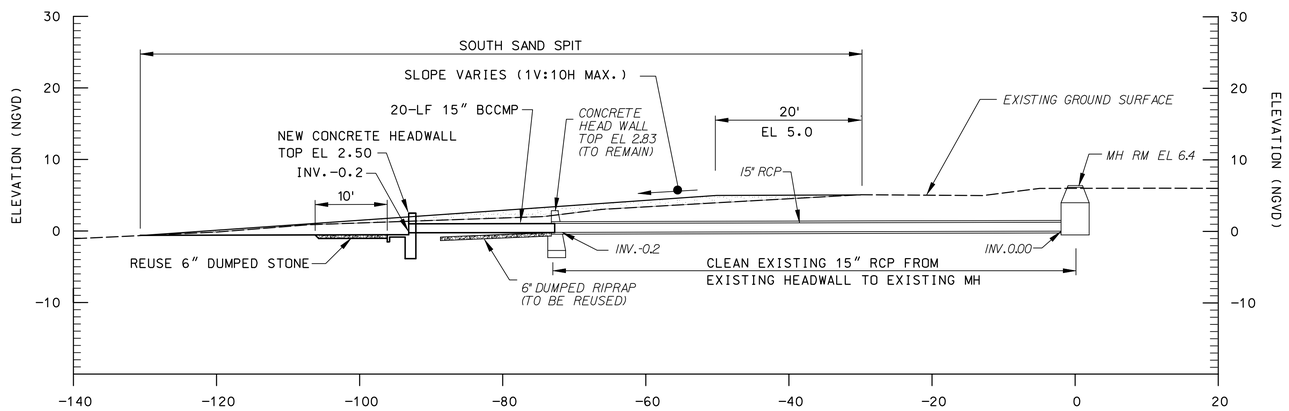


DRAINAGE DETAIL PLAN

SCALE: 1" = 10'



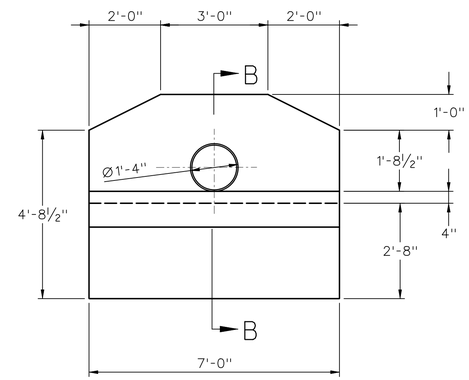
Corrugate Steel Pipe: Fully Bituminous Coated AASHTO M 190 Type A and ASTM A 760/A 760M zinc (Type 2) coated pipe, Type I pipe with helical 2-2/3 by 1/2 inch corrugations.

PROFILE ALONG DRAINAGE PIPE

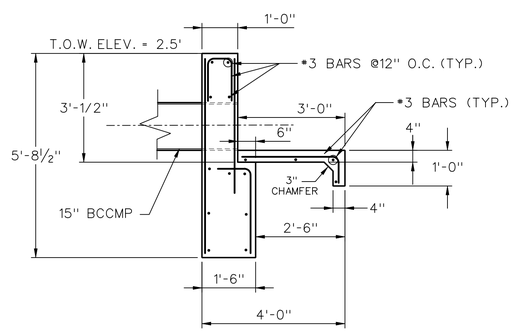
SCALE: 1" = 10'

CONCRETE NOTES:

1. REINFORCEMENT DETAILING AND PLACEMENT SHALL CONFORM TO ACI SP-66 AND ACI 318.
2. CONCRETE SHALL CONFORM TO ASTM C 94.
3. CONCRETE WORK SHALL CONFORM TO ACI 318, PART ENTITLED "CONSTRUCTION REQUIREMENTS".
4. COMPRESSIVE STRENGTH IN 28 DAYS SHALL BE 3000 PSI.
5. ENTRAINED-AIR CONTENT OF CONCRETE SHALL BE BETWEEN 5 AND 7 PERCENT.
6. SLUMP AT PLACEMENT SHALL BE BETWEEN 3 AND 4 INCHES.
7. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.



ELEVATION



SECTION B-B

HEADWALL DETAIL

SCALE: 1/2" = 1'

GRAPHIC SCALES:

1" = 10' (10 0 10 20)

1/2" = 1'-0" (1' 0 1' 2' 3' 4' 5')

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Drawing code: arc-1
File name: acrc302.s10
Plot date:
Plot scale: 1" = 10'

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SECTION 1135, COASTAL WETLAND ECOSYSTEM RESTORATION PROJECT
ALLINS COVE,
BARRINGTON, RHODE ISLAND

DRAINAGE DETAIL PLAN, HEADWALL DETAIL AND PROFILE ALONG THE DRAINAGE PIPE

Reference number:
C-9
Sheet 10 of 10