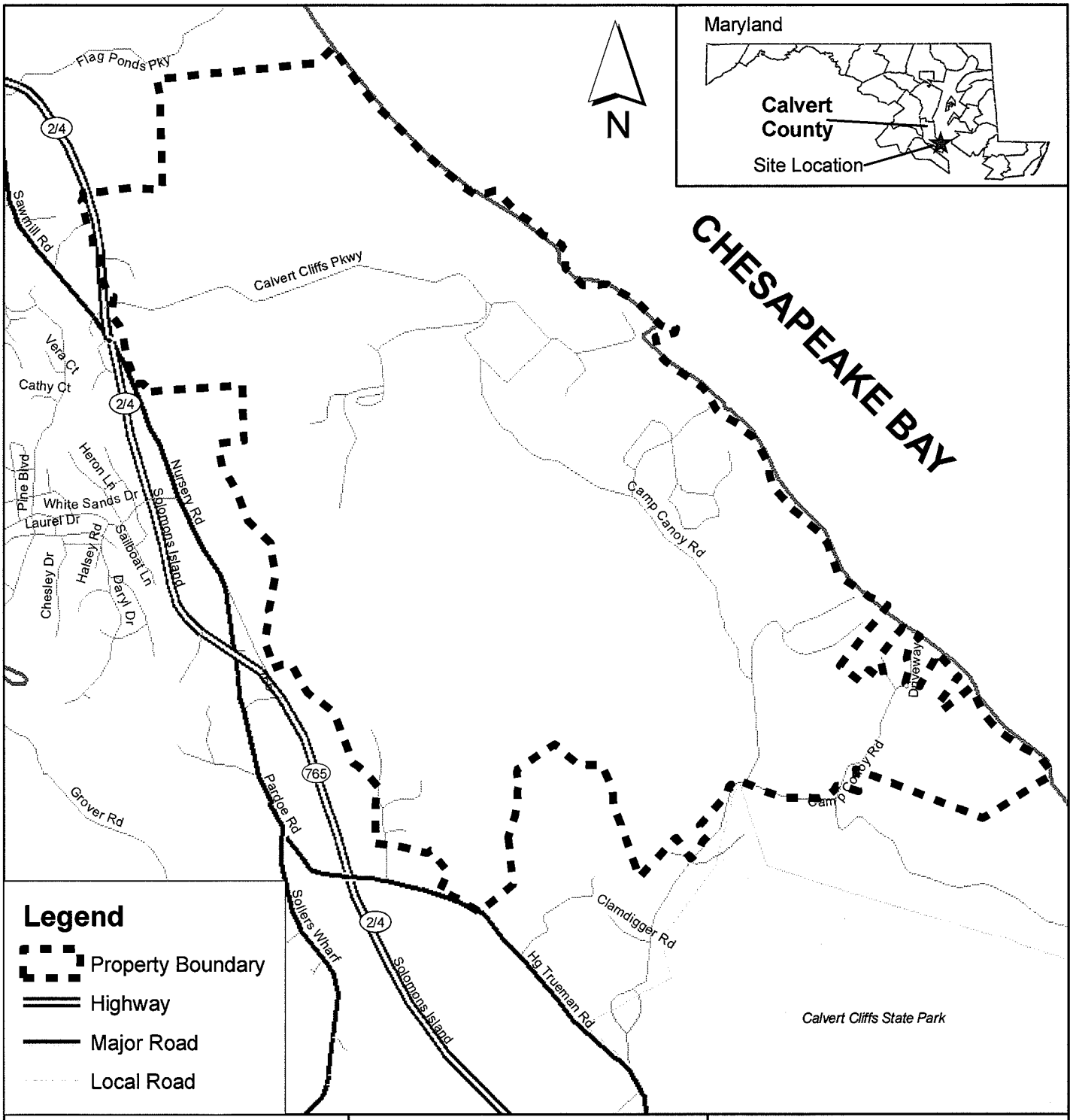

PURPOSE: PLANT EXPANSION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

SITE LOCATION
FIGURE 1

SCALE IN FEET

0 2,000 4,000 Feet

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

Map Document: (G:\Calvert Cliffs\frozen_5_1_08\404\Final Figures\fig1_site_location.mxd)
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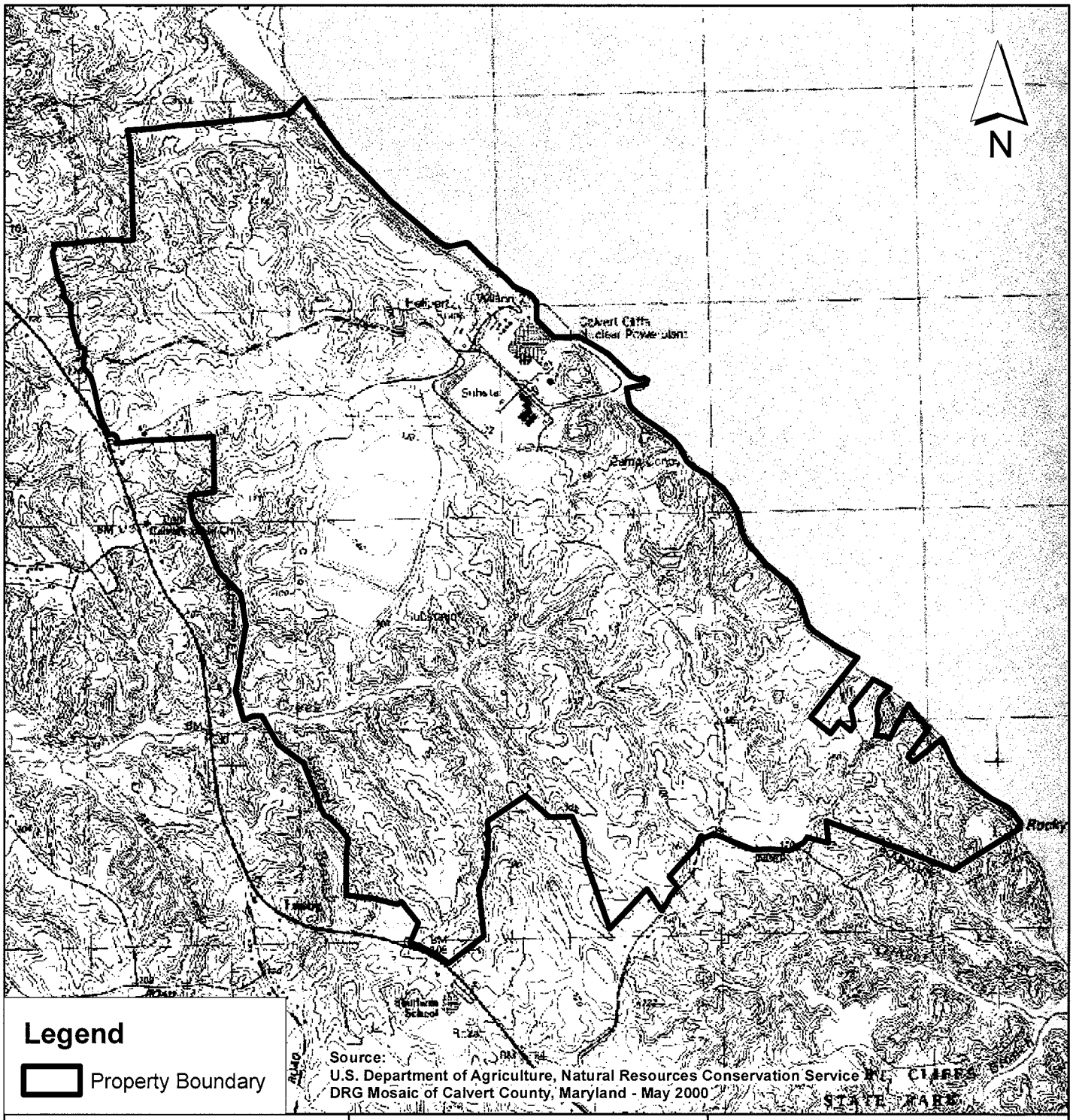

PURPOSE: PLANT EXPANSION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE FIGURE 2

SCALE IN FEET

0 2,000 4,000 Feet

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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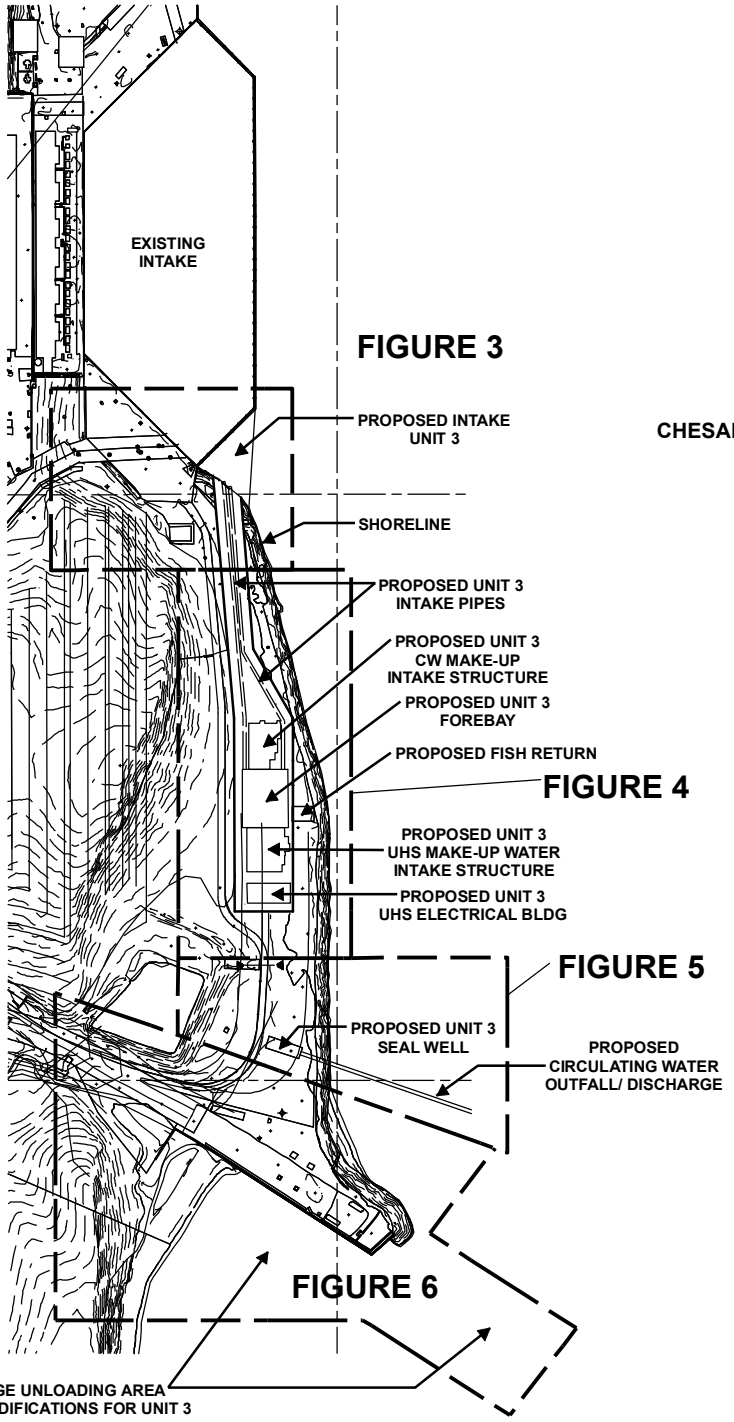

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

N

KEY PLAN

SCALE IN FEET

0 300 600 Feet

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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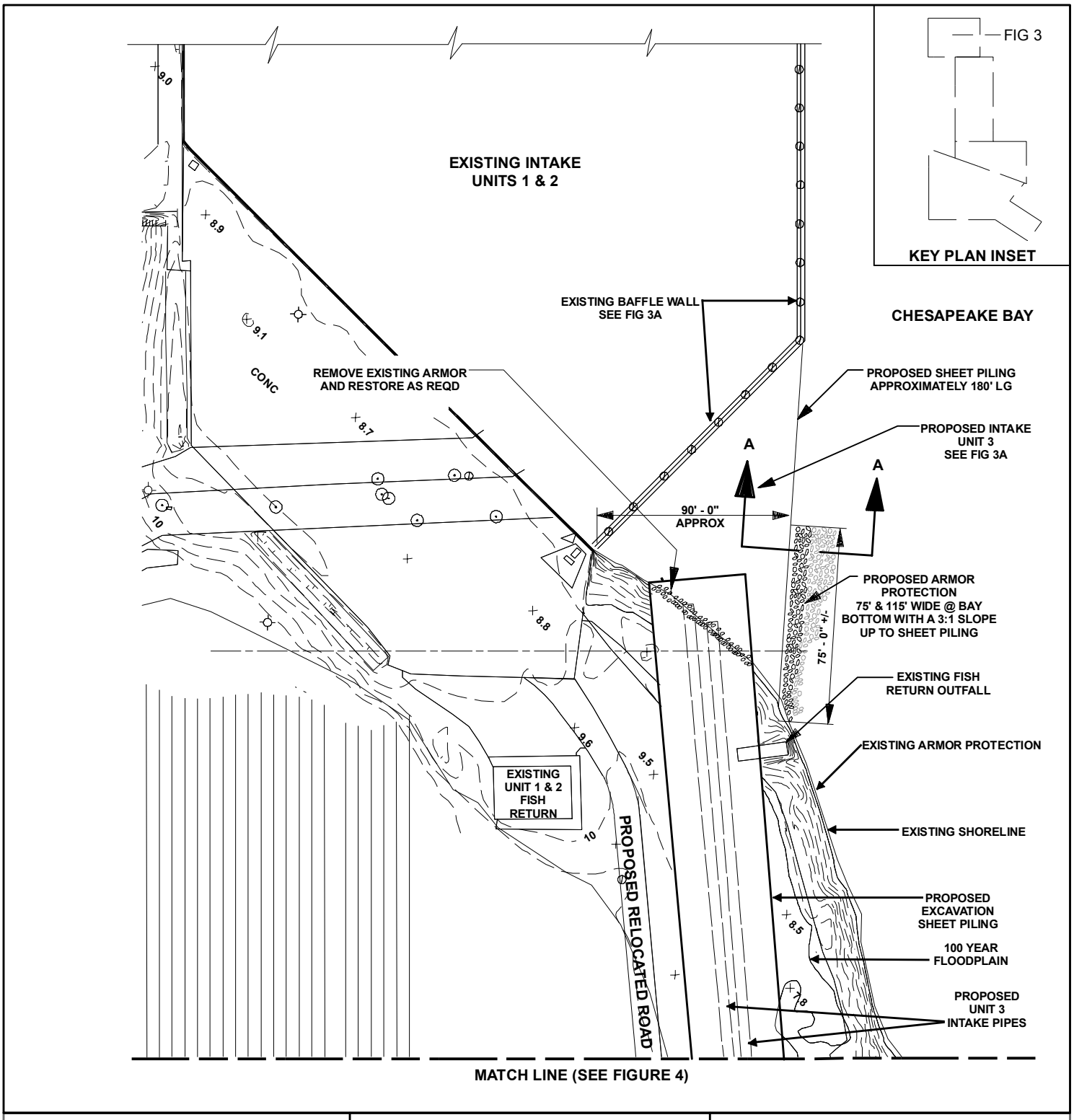

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

FIGURE 3
SITE PLAN @ UNIT 3 INTAKE STRUCTURE - SHT 1

SCALE IN FEET

0 50 100 Feet

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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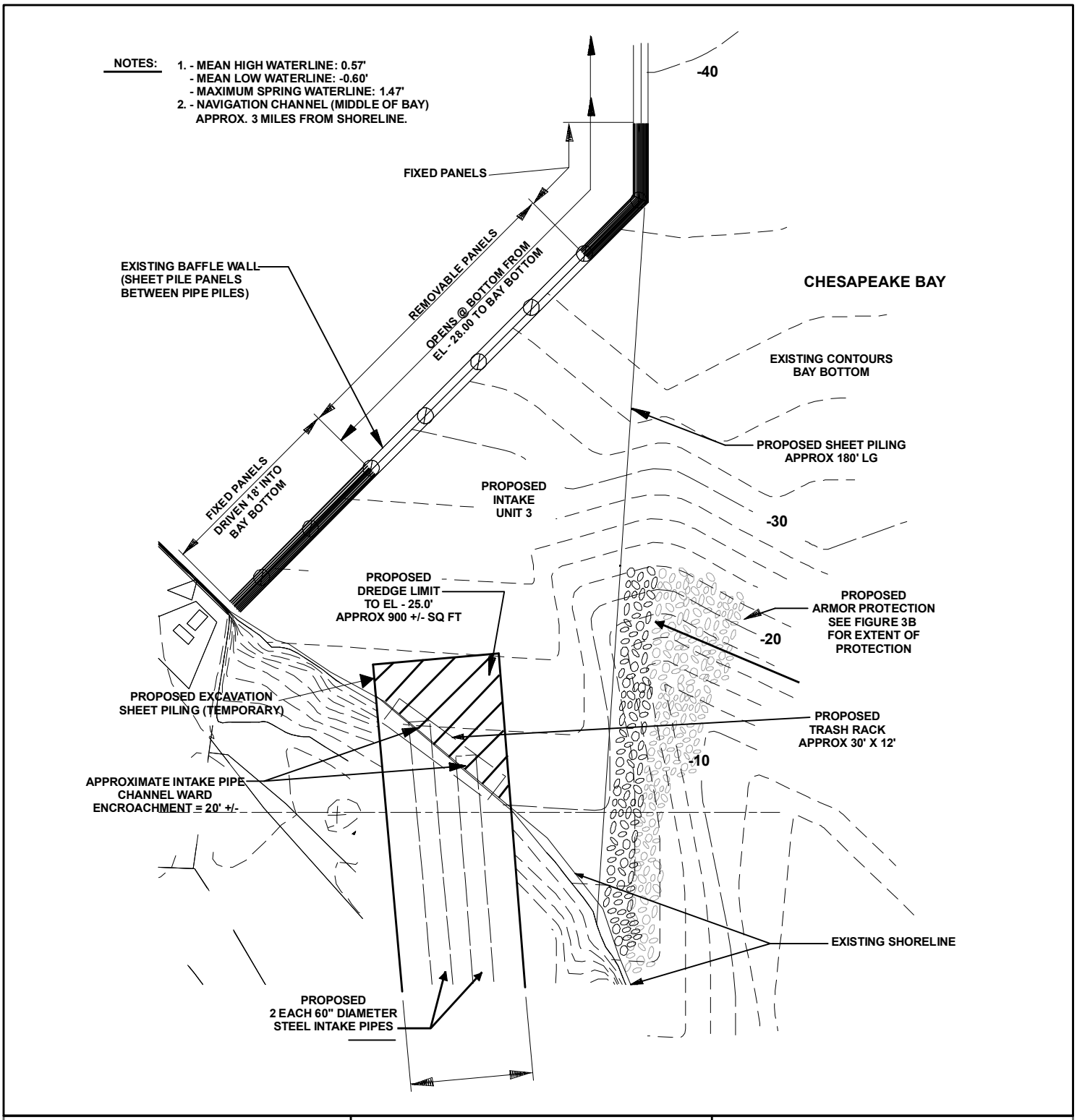

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

N

FIGURE 3A
SITE PLAN @ UNIT 3 INTAKE STRUCTURE - SHT 2

SCALE IN FEET

0 25 50 Feet

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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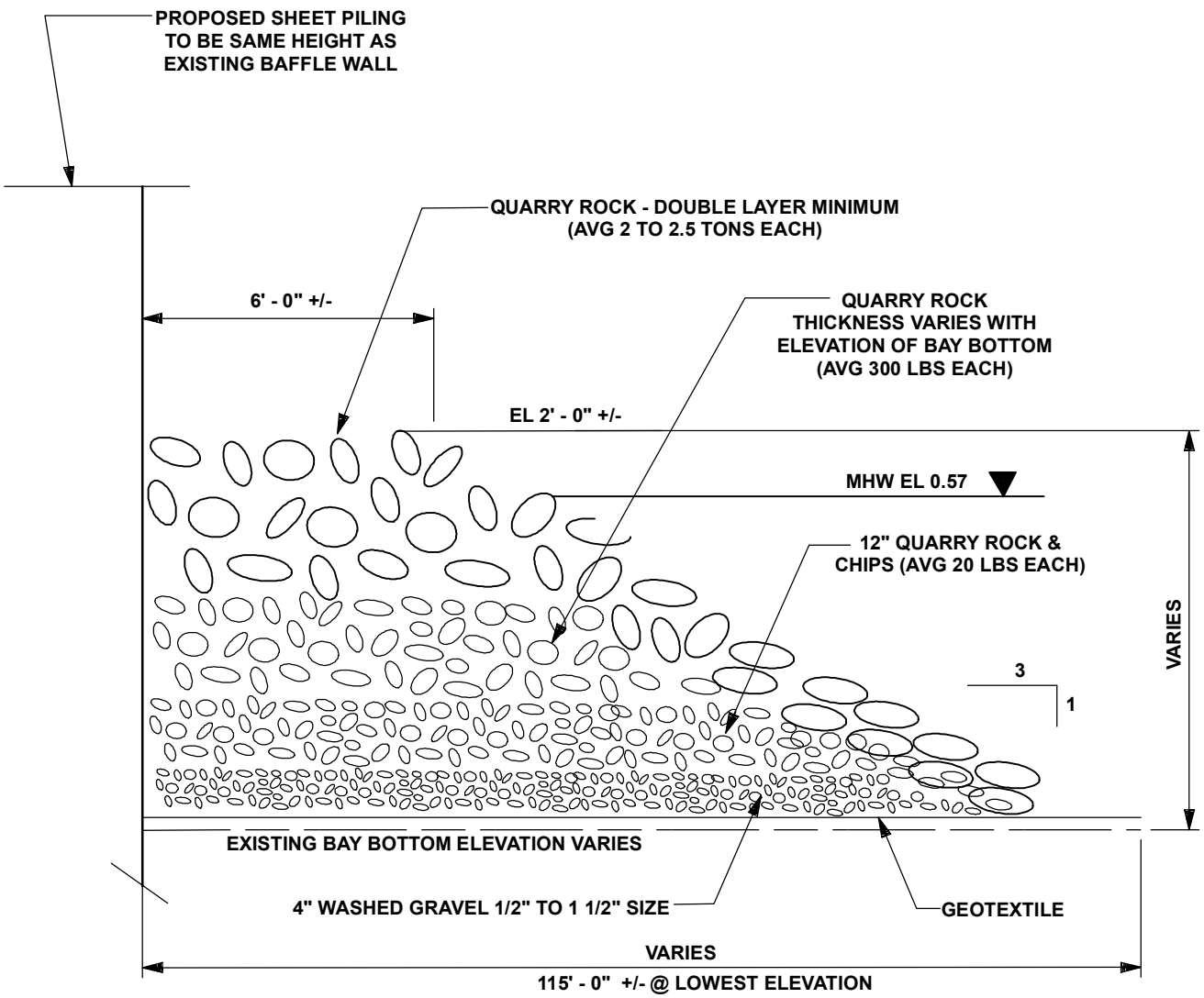

SEE FIGURE 3 FOR LENGTH OF PROPOSED ARMOR PROTECTION

SECTION A - A

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

FIGURE 3B
PROPOSED ARMOR PROTECTION

SCALE IN FEET

NOT TO SCALE

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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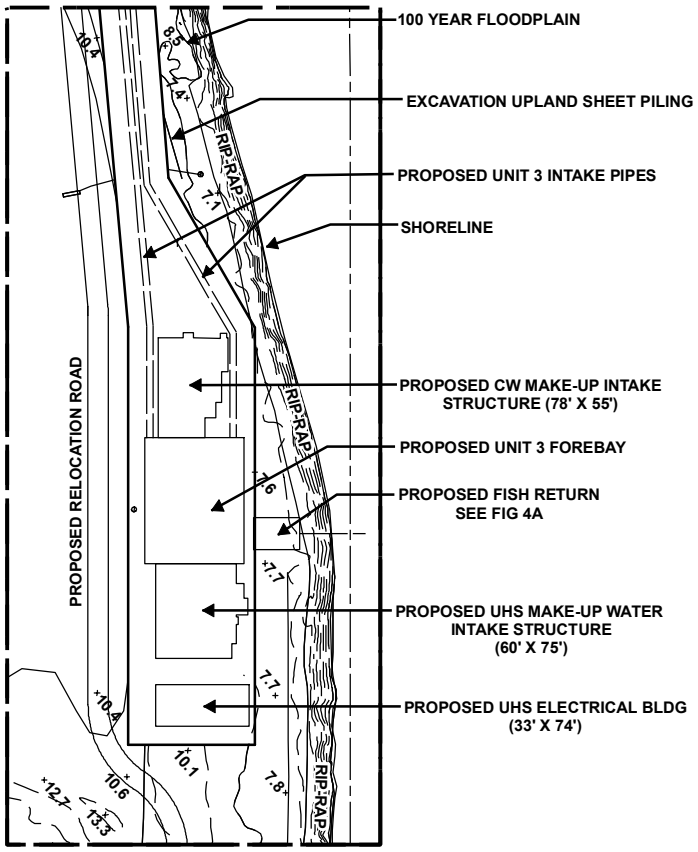
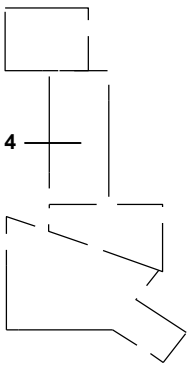


CHESAPEAKE BAY

* ALL STRUCTURES IN UPLANDS



KEY PLAN INSET

NOTES:
1. - MEAN HIGH WATERLINE: 0.57'
   - MEAN LOW WATERLINE: -0.60'
   - MAXIMUM SPRING WATERLINE: 1.47'
2. - NAVIGATION CHANNEL (MIDDLE OF BAY) APPROX. 3 MILES FROM SHORELINE.

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

N

FIGURE 4
SITE PLAN @ UNIT 3 INTAKE STRUCTURE - SHT 1

SCALE IN FEET

0 150 300 Feet

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

Map Document: (G:\Calvert Cliffs\frozen_5_1_08\404\Final Figures\figure4__key.mxd)
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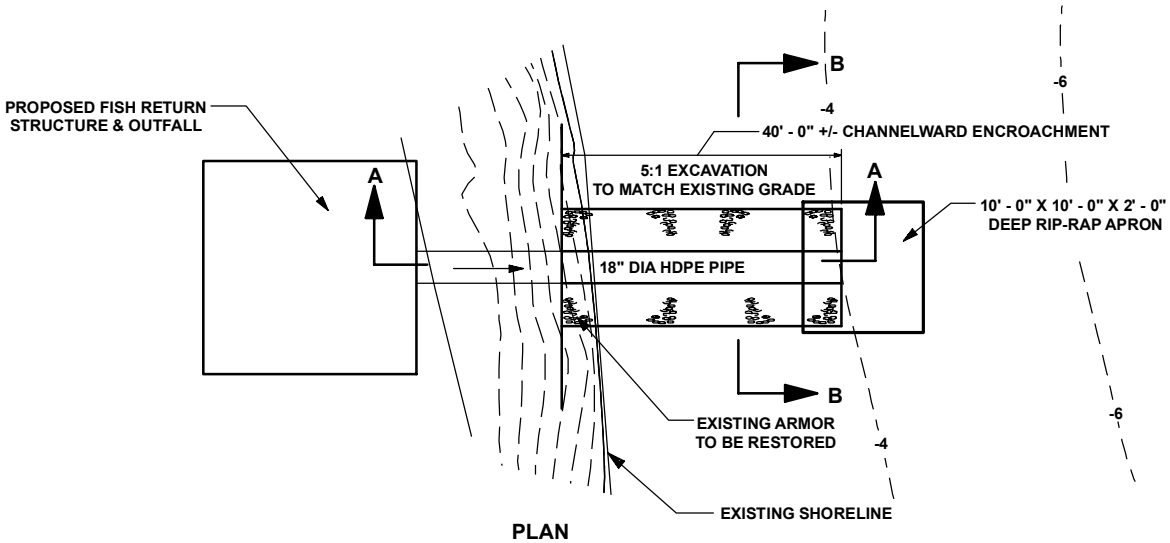
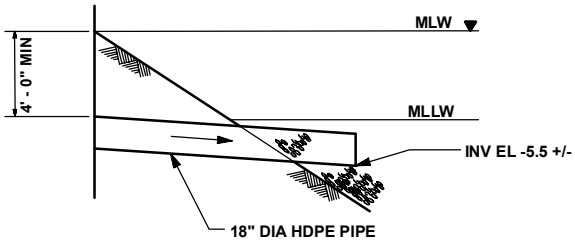
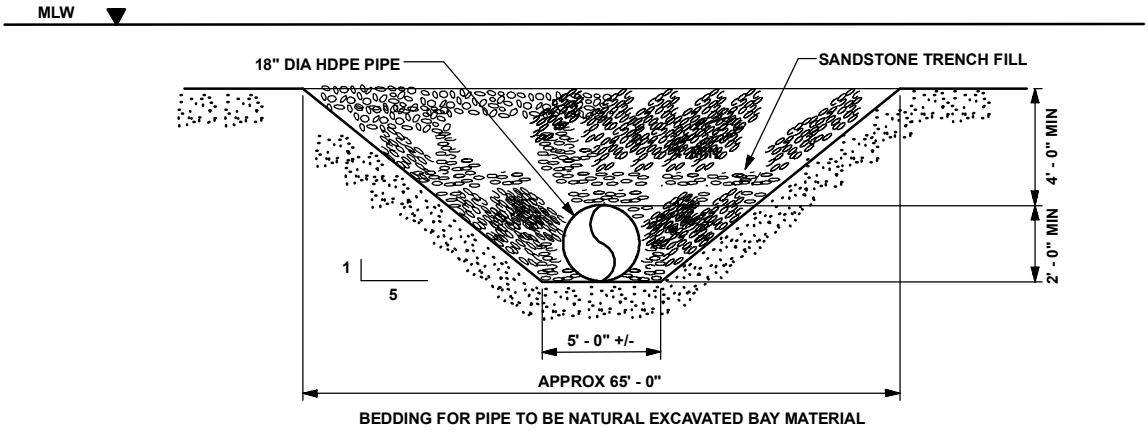


PLAN



SECTION A-A



SECTION B-B

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

FIGURE 4A
FISH RETURN

SCALE IN FEET

NOT TO SCALE

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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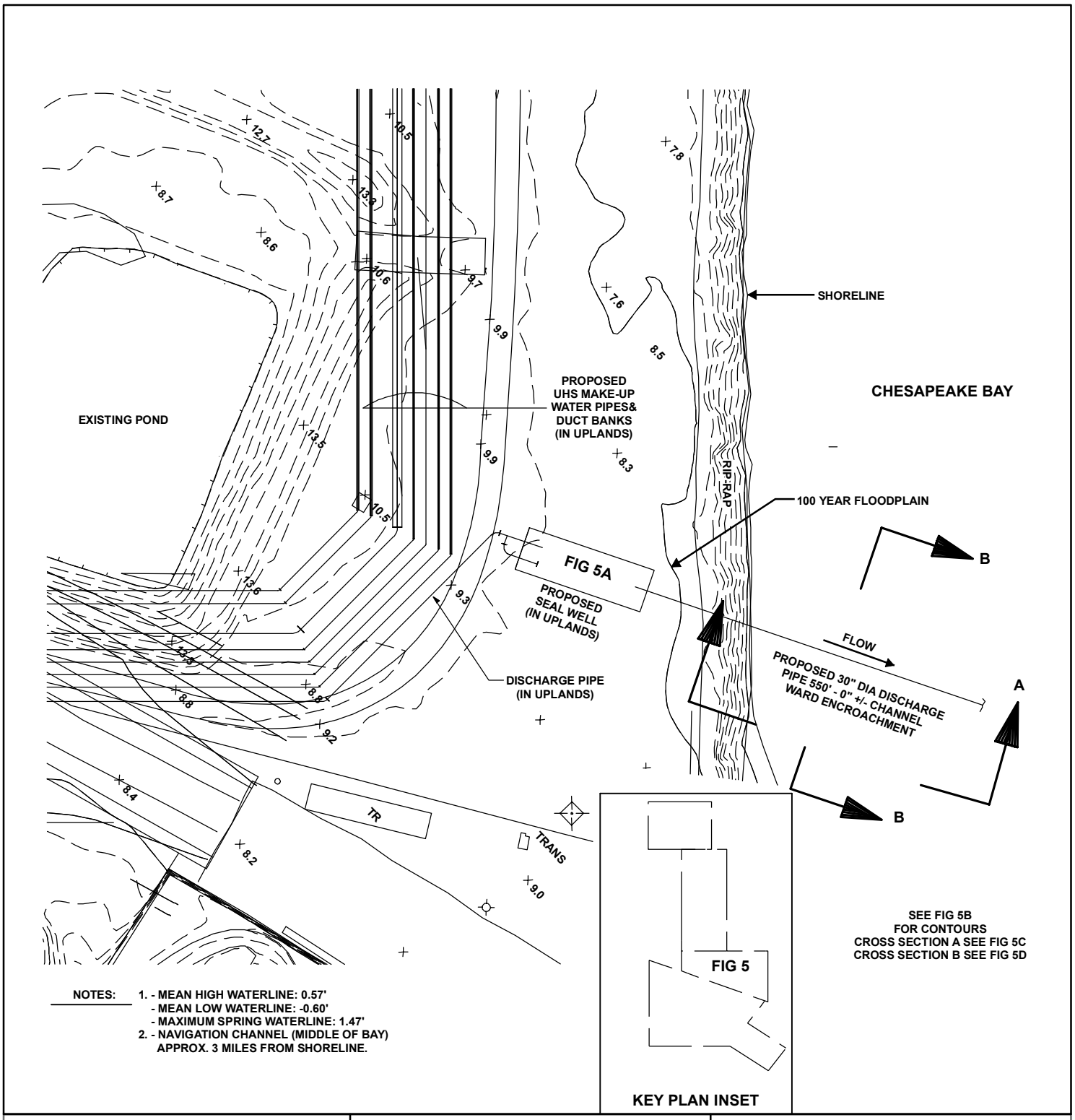

NOTES:
1. - MEAN HIGH WATERLINE: 0.57'
- MEAN LOW WATERLINE: -0.60'
- MAXIMUM SPRING WATERLINE: 1.47'
2. - NAVIGATION CHANNEL (MIDDLE OF BAY) APPROX. 3 MILES FROM SHORELINE.

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

N

FIGURE 5
SEAL WELL &
DISCHARGE PIPING

SCALE IN FEET

0 60 120 Feet

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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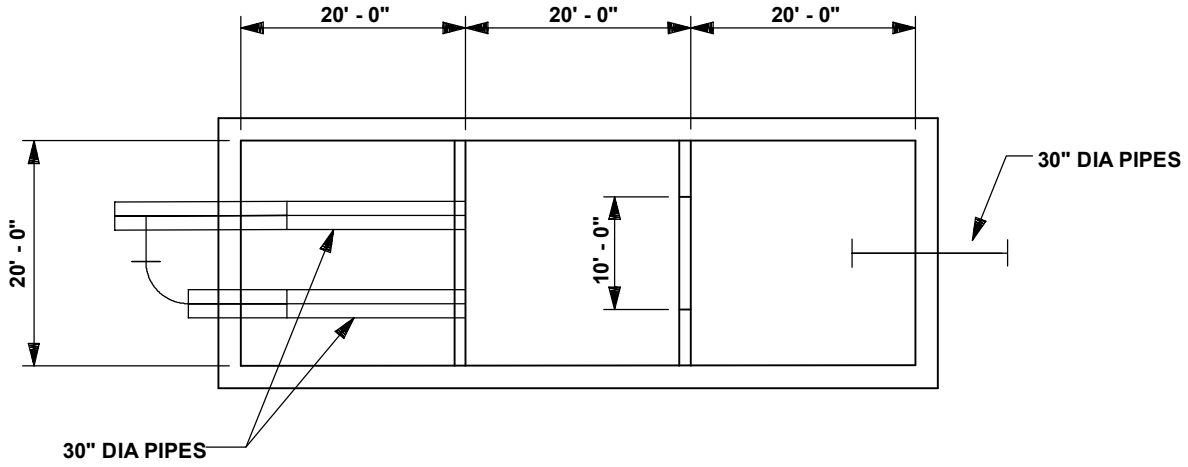
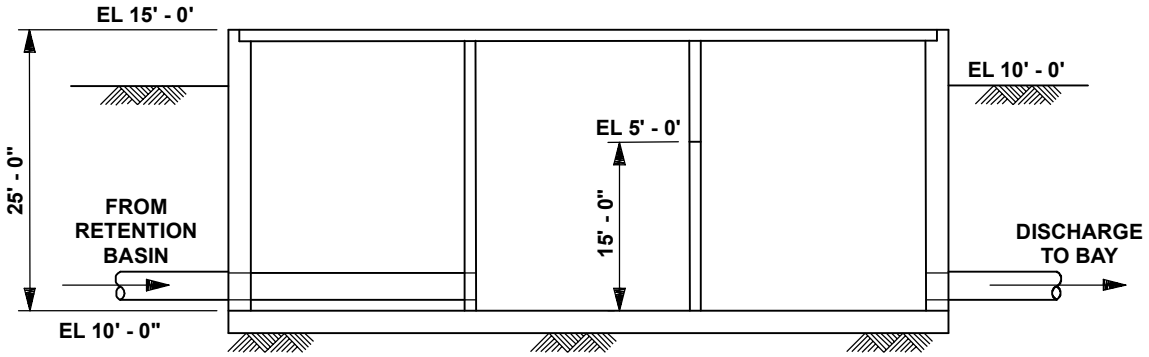


PLAN VIEW



ELEVATION VIEW

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

FIGURE 5A
SEAL WELL
(IN UPLANDS)

SCALE IN FEET

NOT TO SCALE

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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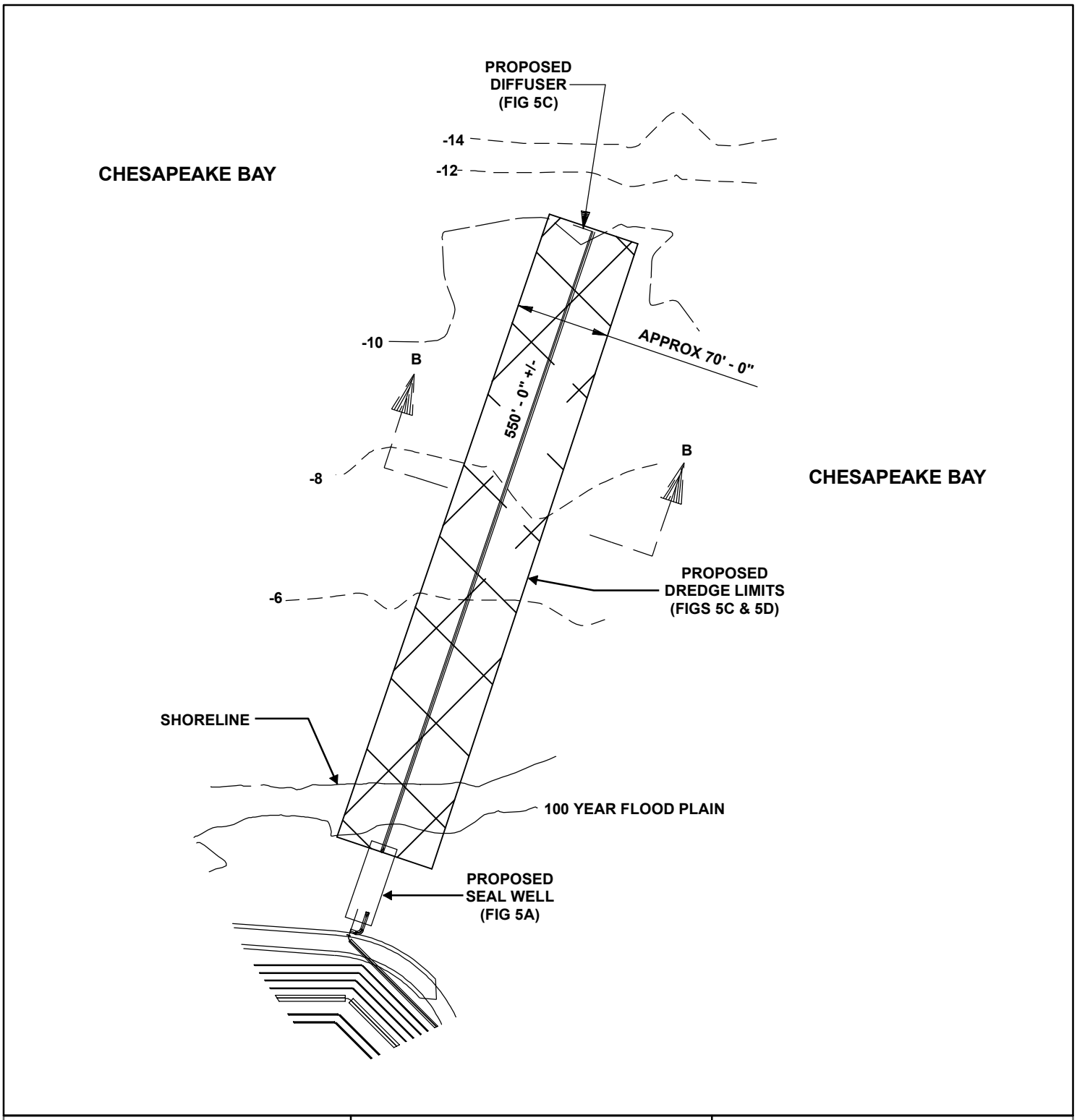

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

N

FIGURE 5B
SEAL WELL &
DISCHARGE PIPING

SCALE IN FEET

0 100 200 Feet

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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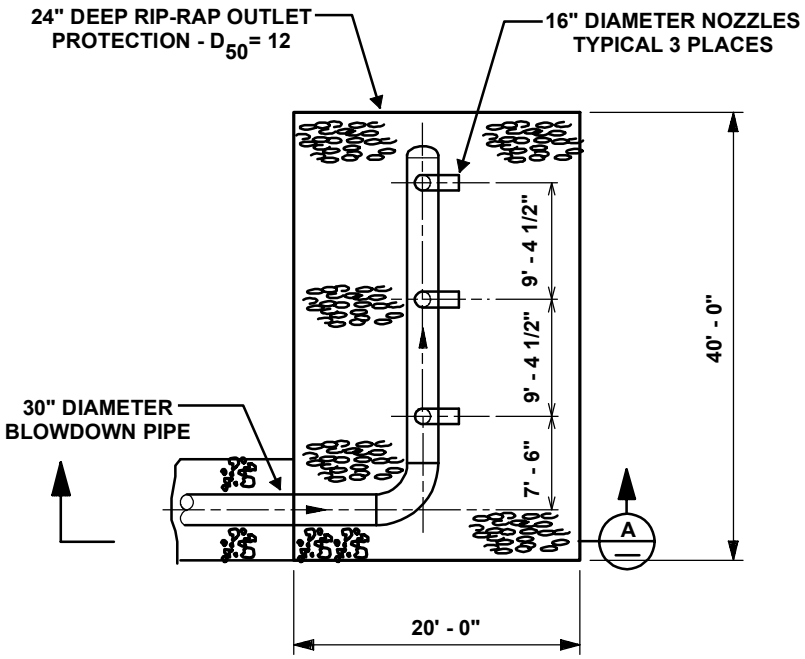
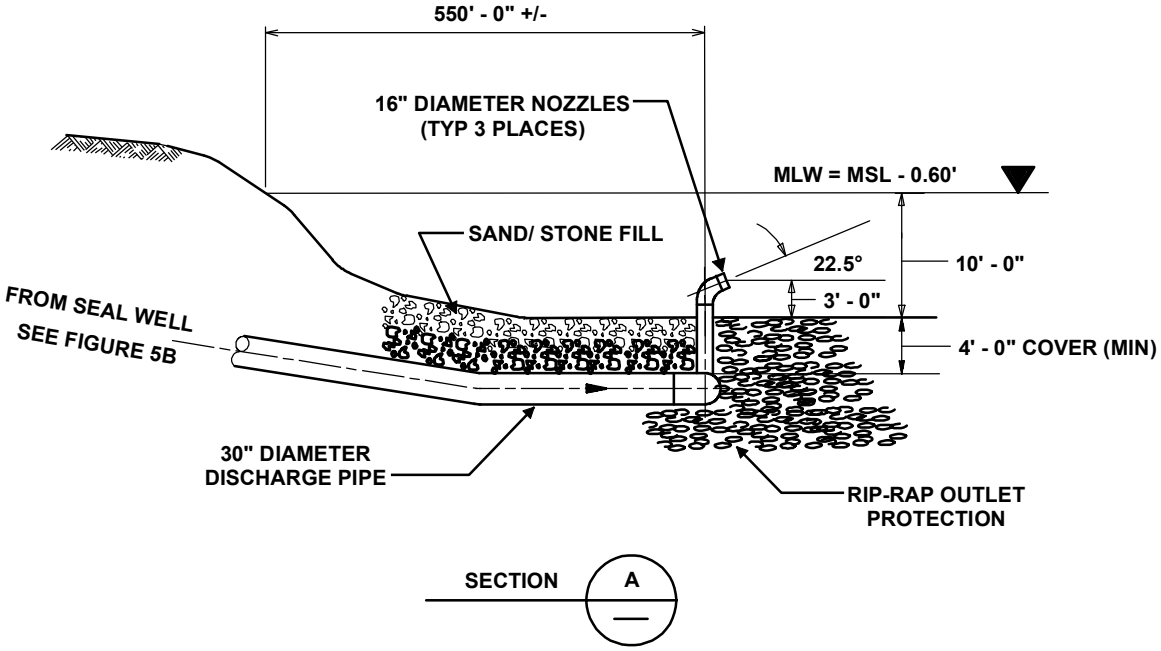


DIFFUSER PLAN VIEW



PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

FIGURE 5C
DISCHARGE OUTFALL DETAILS

SCALE IN FEET

NOT TO SCALE

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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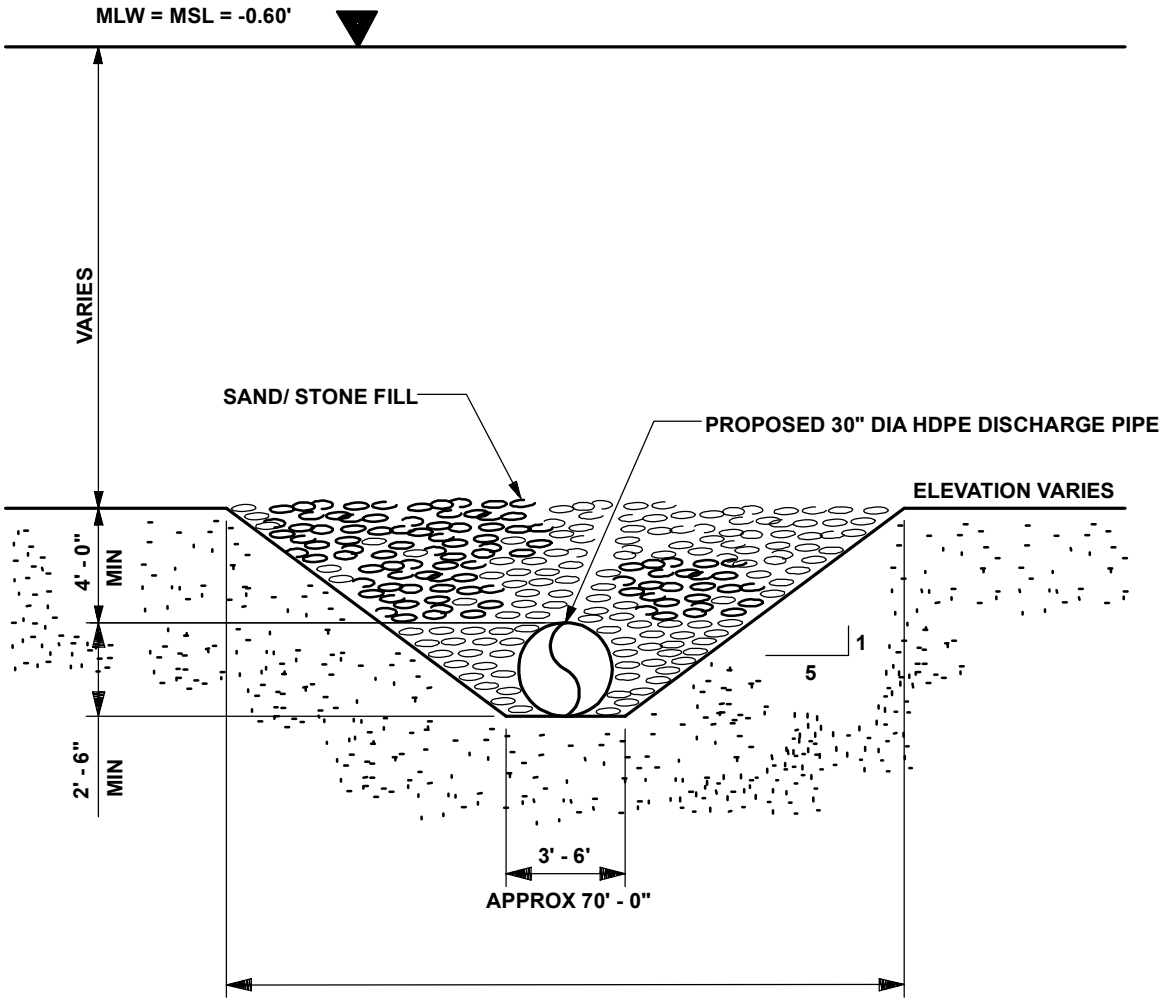

BEDDING FOR PIPE TO BE NATURAL EXCAVATED BAY MATERIAL
SEE FIG 5C FOR RIP-RAP PROTECTION @ DIFFUSER END

SECTION B

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

FIGURE 5D
DISCHARGE OUTFALL DETAILS

SCALE IN FEET

NOT TO SCALE

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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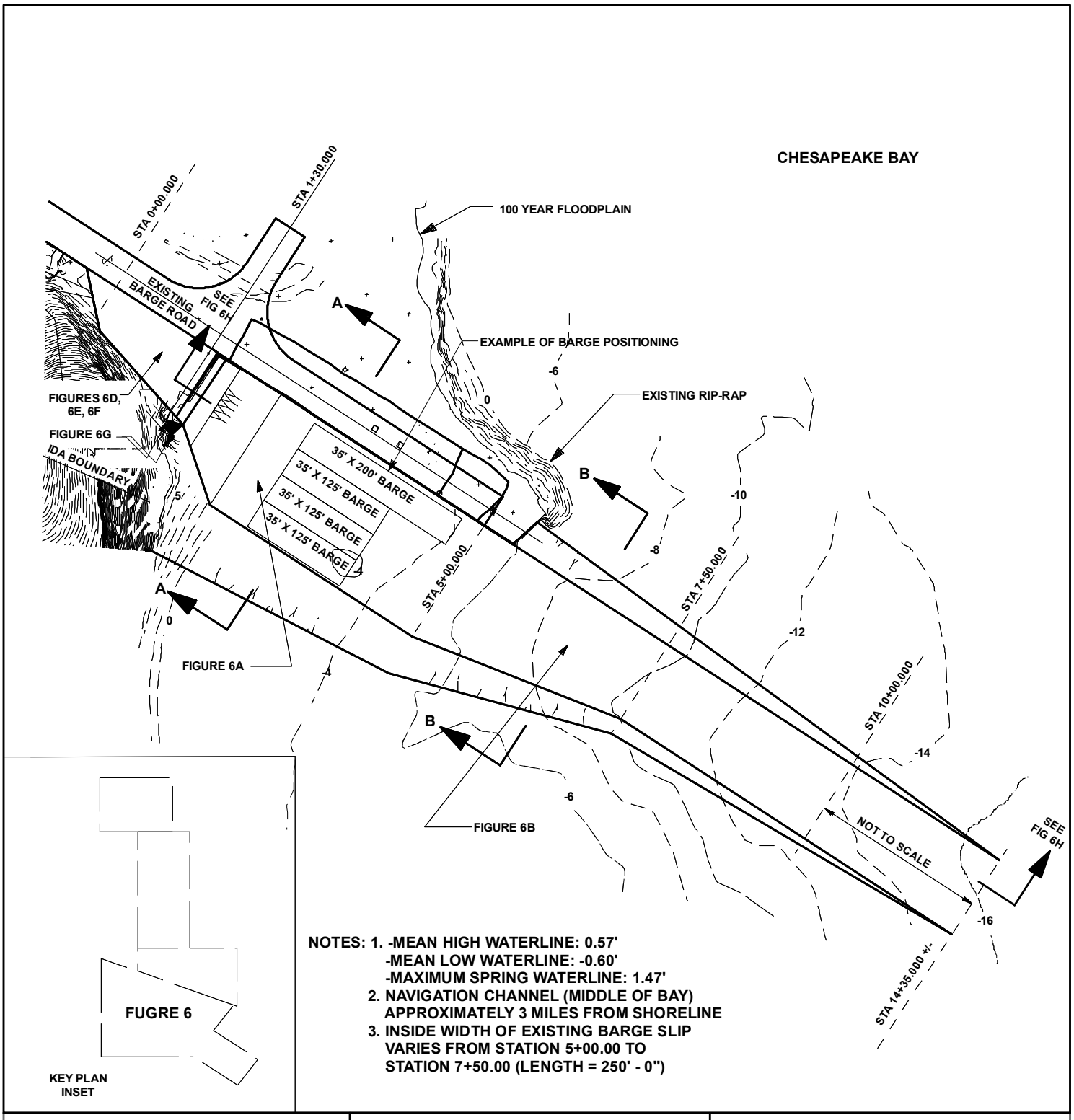

NOTES: 1. -MEAN HIGH WATERLINE: 0.57'
-MEAN LOW WATERLINE: -0.60'
-MAXIMUM SPRING WATERLINE: 1.47'
2. NAVIGATION CHANNEL (MIDDLE OF BAY) APPROXIMATELY 3 MILES FROM SHORELINE
3. INSIDE WIDTH OF EXISTING BARGE SLIP VARIES FROM STATION 5+00.00 TO STATION 7+50.00 (LENGTH = 250' - 0")

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

FIGURE 6
PROPOSED RESTORATION OF BARGE SLIP (WITH EXISTING CONTOURS)

SCALE IN FEET

0 100 200 300 Feet

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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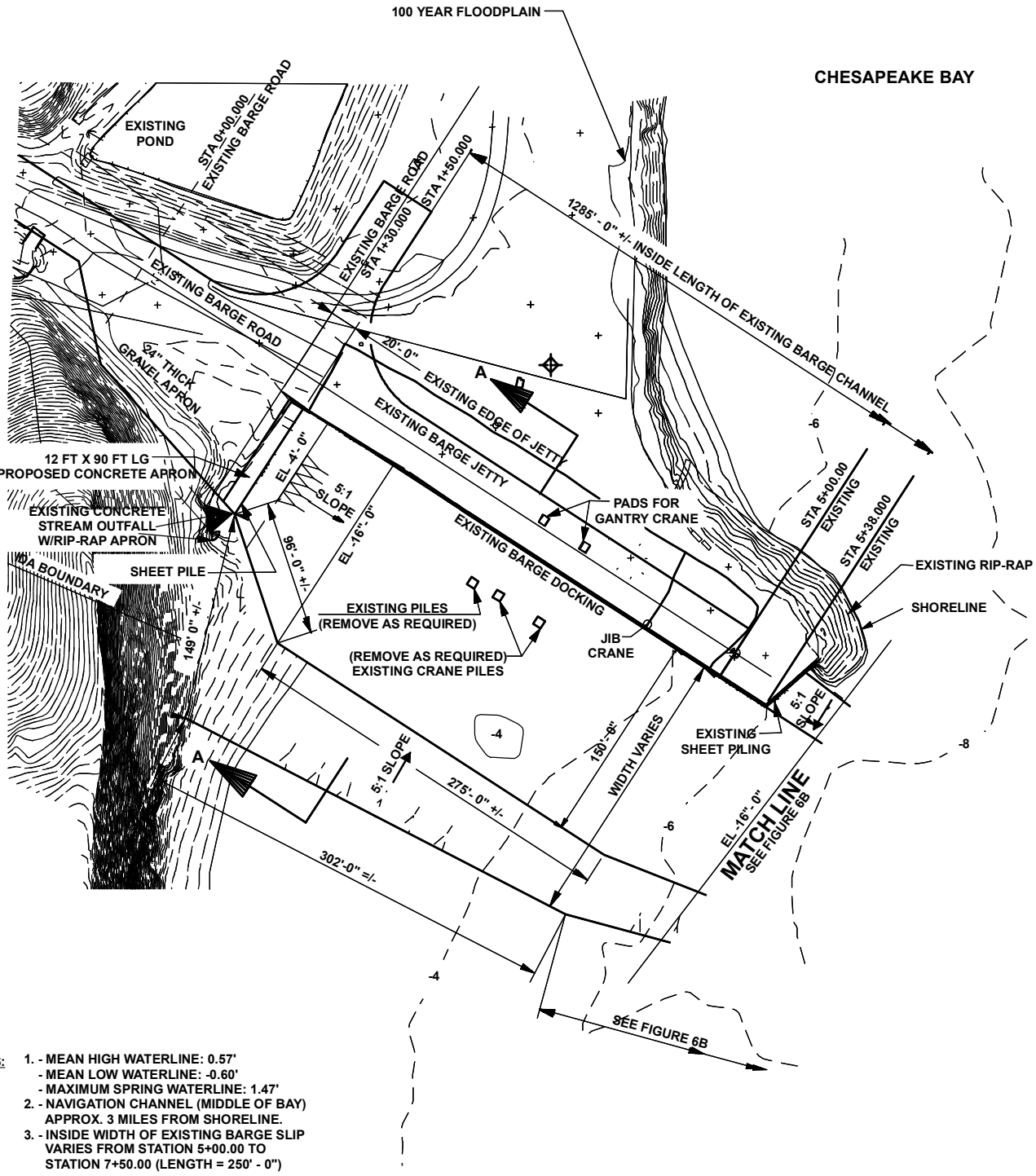

NOTES:
1. - MEAN HIGH WATERLINE: 0.57'
   - MEAN LOW WATERLINE: -0.60'
   - MAXIMUM SPRING WATERLINE: 1.47'
2. - NAVIGATION CHANNEL (MIDDLE OF BAY) APPROX. 3 MILES FROM SHORELINE.
3. - INSIDE WIDTH OF EXISTING BARGE SLIP VARIES FROM STATION 5+00.00 TO STATION 7+50.00 (LENGTH = 250' - 0")

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

N

FIGURE 6 A
MODIFICATIONS @ EXISTING BARGE UNLOADING FACILITY

SCALE IN FEET

0 50 100 150 Feet

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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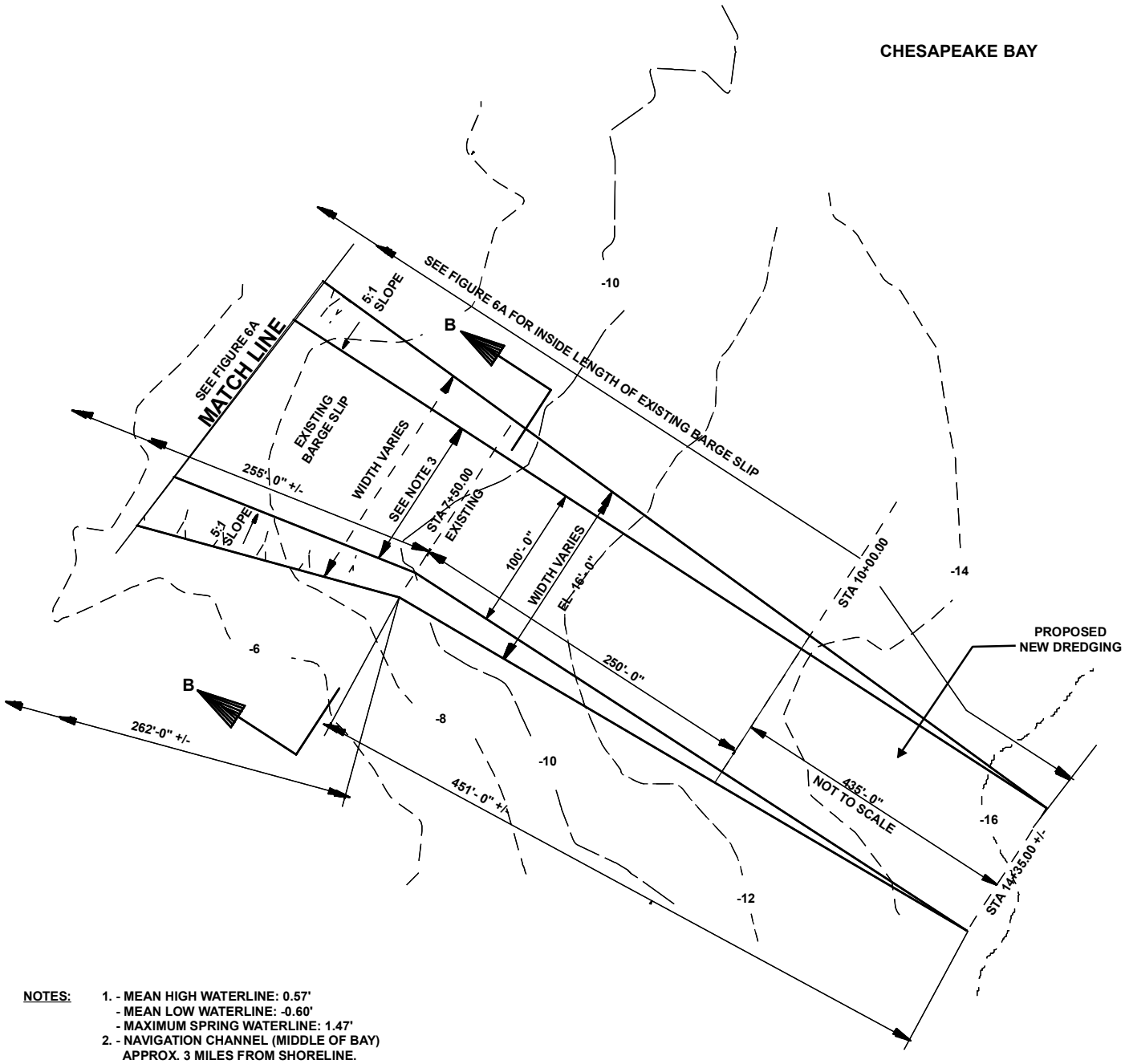

NOTES:

1. - MEAN HIGH WATERLINE: 0.57'
   - MEAN LOW WATERLINE: -0.60'
   - MAXIMUM SPRING WATERLINE: 1.47'
2. - NAVIGATION CHANNEL (MIDDLE OF BAY) APPROX. 3 MILES FROM SHORELINE.
3. - INSIDE WIDTH OF EXISTING BARGE SLIP VARIES FROM STATION 5+00.00 TO STATION 7+50.00 (LENGTH = 250' - 0")

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

N

FIGURE 6 B
MODIFICATIONS @ EXISTING BARGE UNLOADING FACILITY

SCALE IN FEET

0 50 100 150 Feet

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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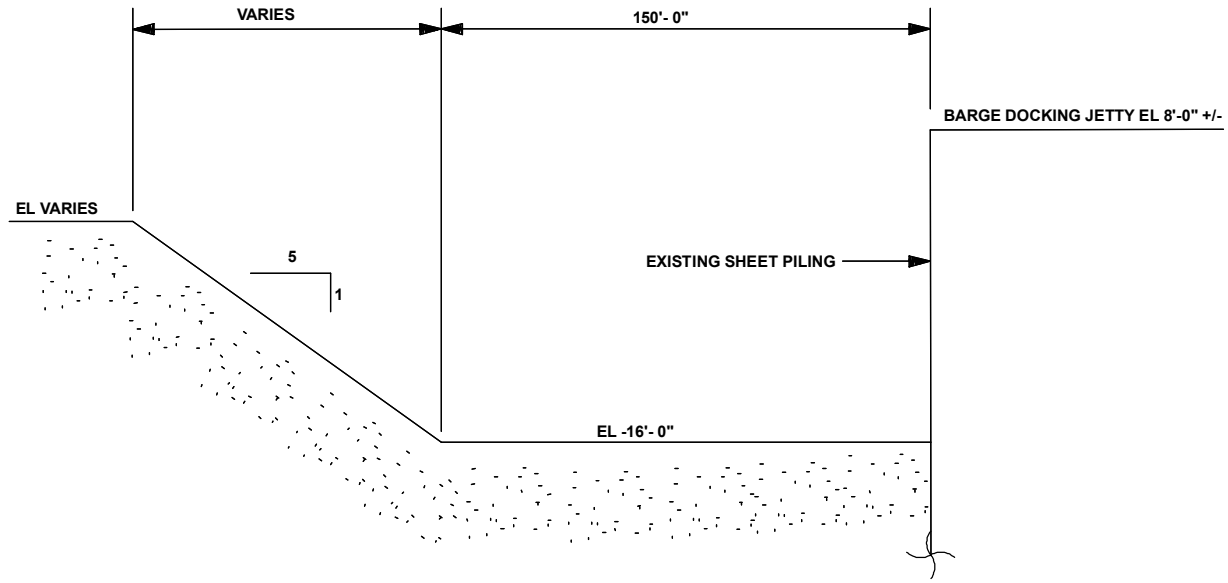
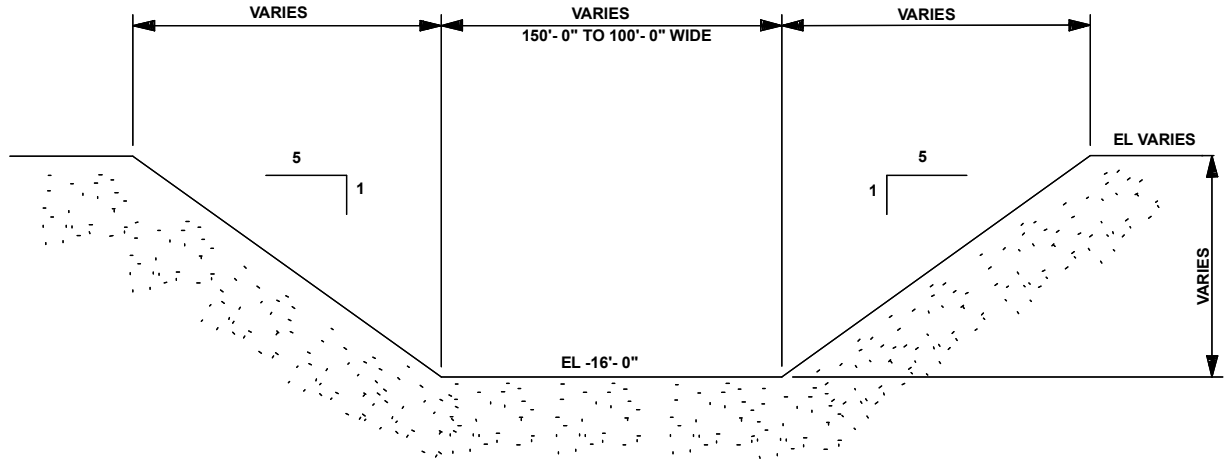


RESTRORATION/EXCAVATION FOR BARGE SLIP SHALL BE TO ORIGINAL DREDGE ELEVATIONS SHOWN

SECTION A



RESTRORATION/EXCAVATION FOR BARGE SLIP SHALL BE TO ORIGINAL DREDGE ELEVATIONS SHOWN

SECTION B

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

FIGURE 6 C
SECTION @ PROPOSED BARGE SLIP MODIFICATION

SCALE IN FEET

NOT TO SCALE

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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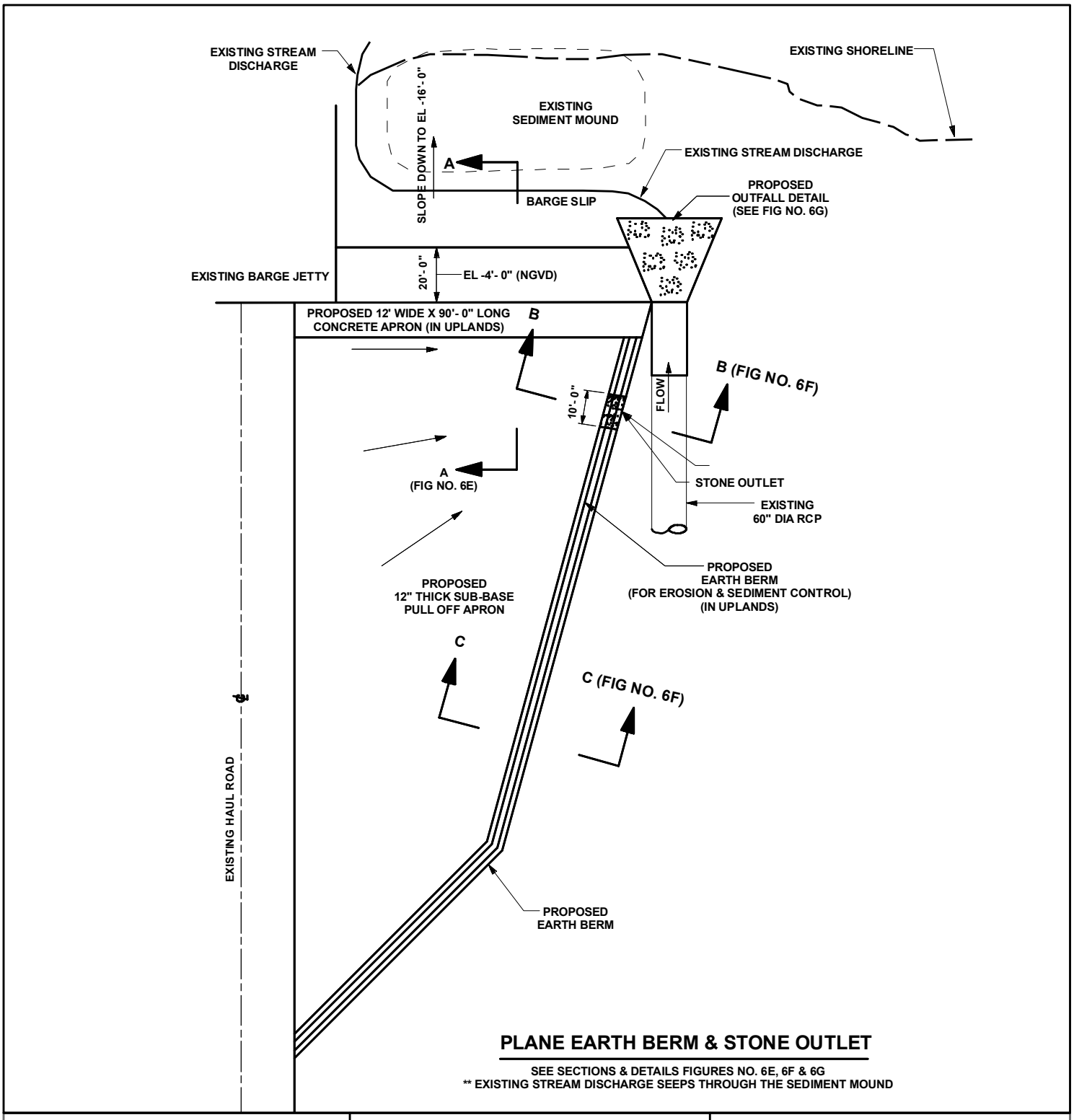

PLANE EARTH BERM & STONE OUTLET

SEE SECTIONS & DETAILS FIGURES NO. 6E, 6F & 6G
** EXISTING STREAM DISCHARGE SEEPS THROUGH THE SEDIMENT MOUND

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

FIGURE 6 D
MODIFICATIONS FOR NEW BULKHEAD & APRON

SCALE IN FEET

NOT TO SCALE

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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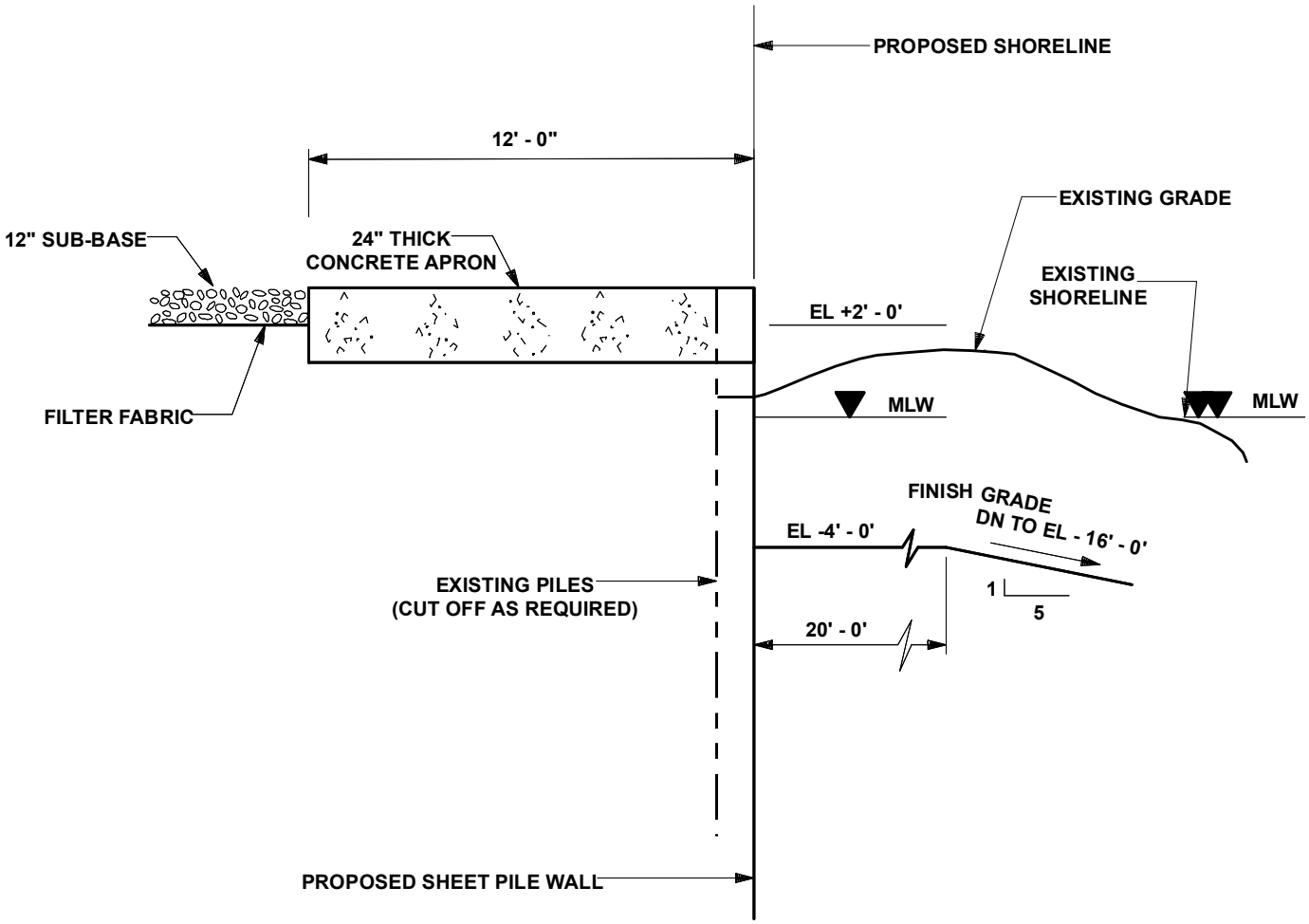

SECTION A-A

SEE FIGURE 6A FOR LOCATION OF APRON AND SHEET PILING
SEE FIGURE 6D FOR MODIFICATIONS OF NEW BULKHEAD AND APRON

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

FIGURE 6 E
SECTION THRU
CONCRETE APRON

SCALE IN FEET

NOT TO SCALE

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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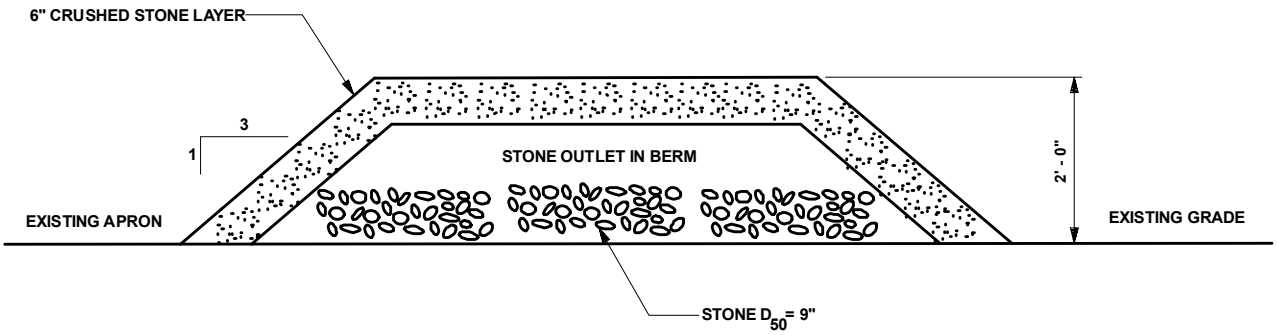
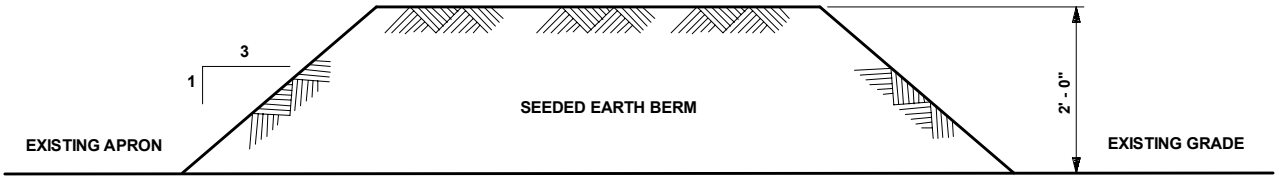


SECTION B-B



SECTION C-C

EARTH BERM & STONE OUTLET DETAILS

EROSION & SEDIMENT CONTROL

SEE MODIFICATIONS FOR NEW BULKHEAD & APRON FIGURE NO. 6D

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

FIGURE 6F
STONE OUTLET &
EARTH BERM SECTIONS
(IN UPLANDS)

SCALE IN FEET

NOT TO SCALE

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

Map Document: (G:\Calvert Cliffs\frozen_5_1_08\404\Final Figures\figure4__key.mxd)
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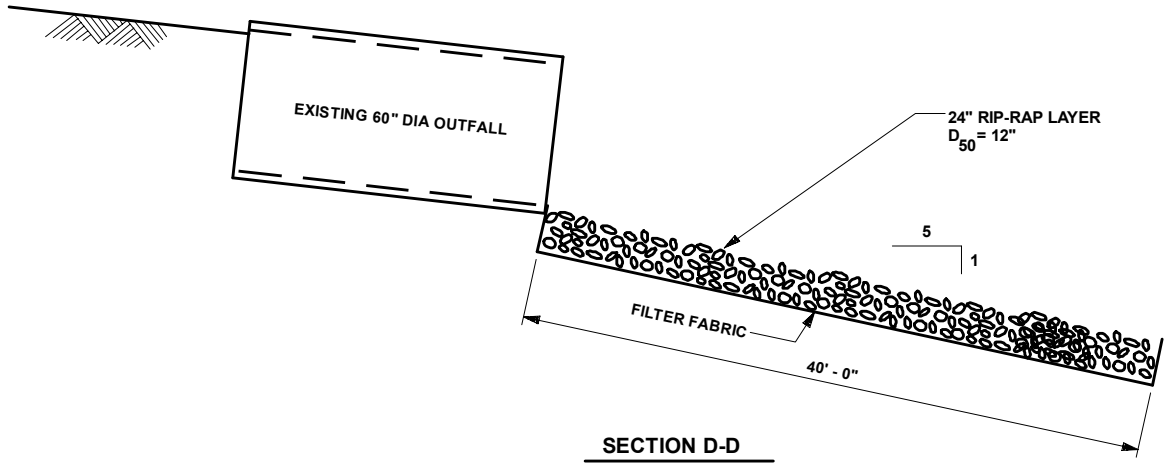
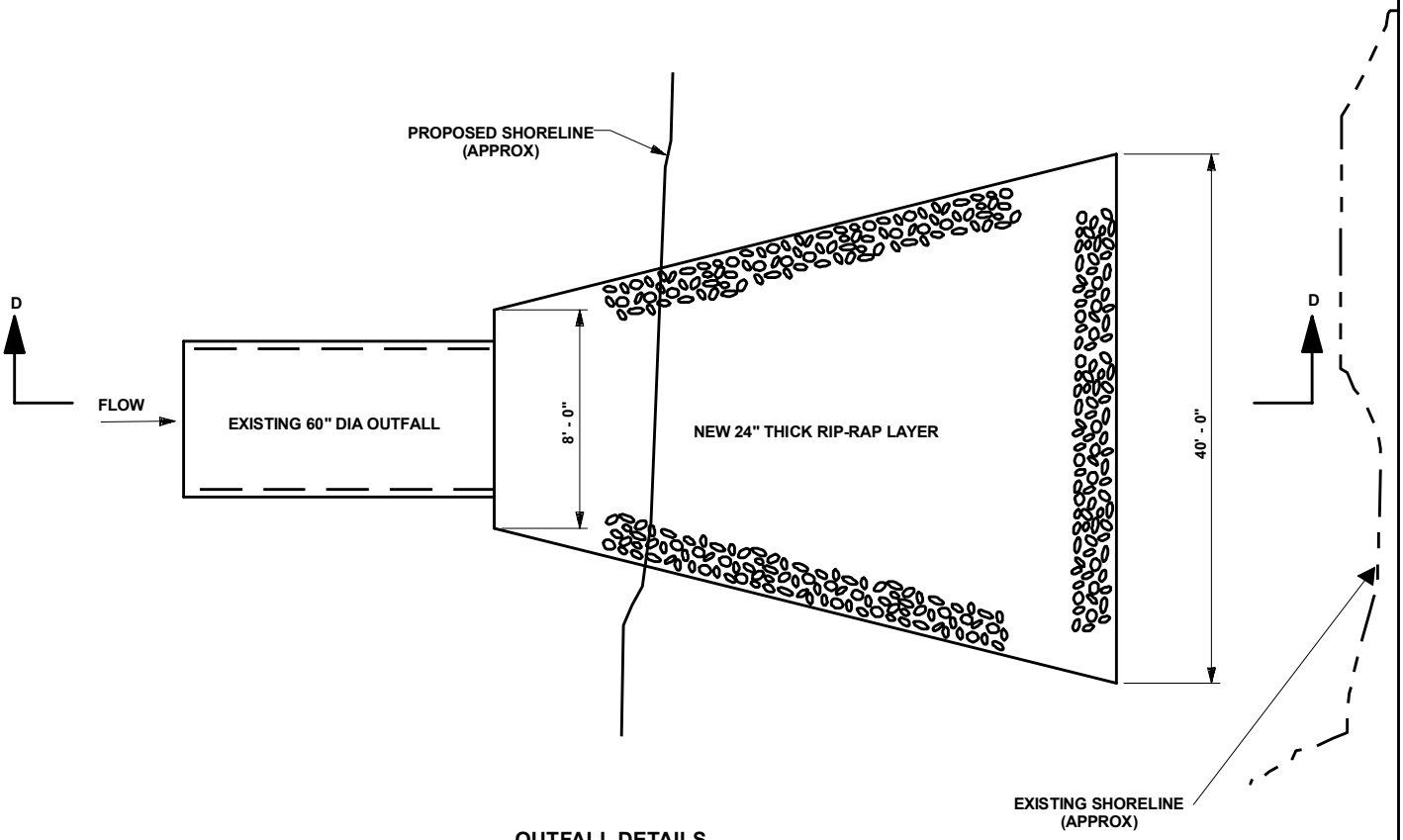


SECTION D-D



OUTFALL DETAILS

SEE MODIFICATIONS FOR NEW BULKHEAD & APRON FIGURE NO. 6D

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

FIGURE 6G
STREAM OUTFALL DETAILS

SCALE IN FEET

NOT TO SCALE

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

Map Document: (G:\Calvert Cliffs\frozen_5_1_08\404\Final Figures\figure4__key.mxd)
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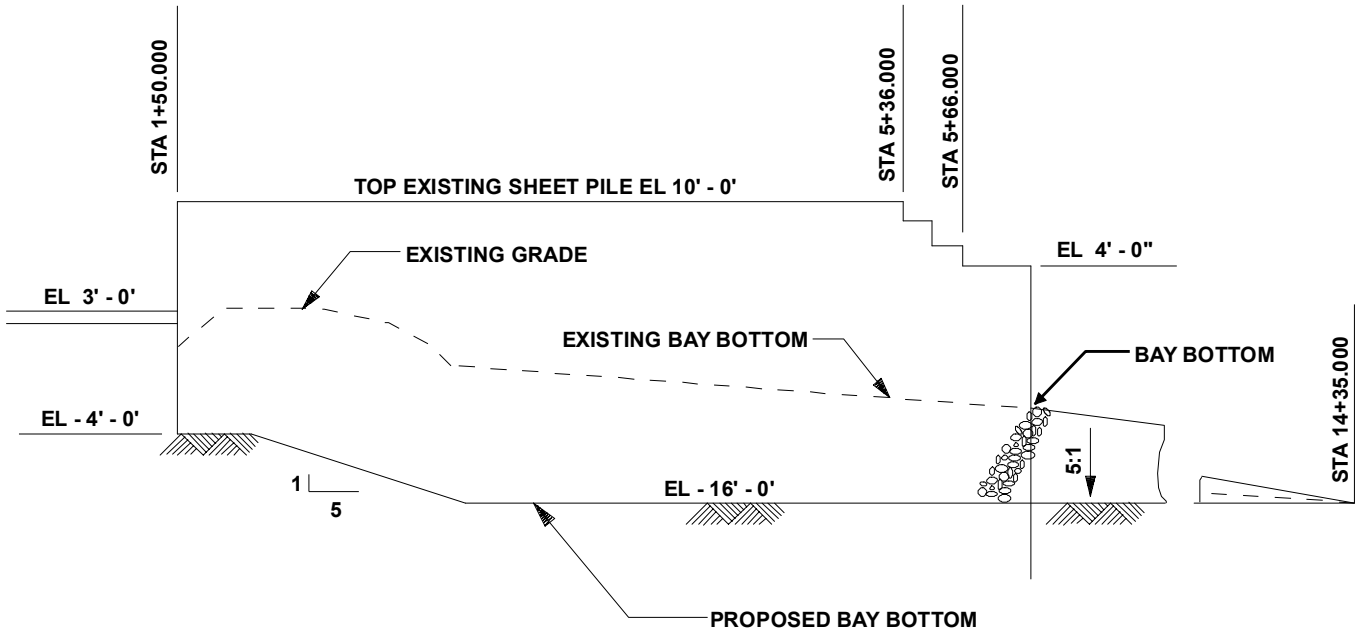

LONGITUDINAL SECTION

(SEE FIGURE 6)

PURPOSE: PLANT EXPANSION

DATA SOURCE:
BECHTEL CORPORATION

DATUM: (NGVD 29)

PROJECT LATITUDE/LONGITUDE:
38.424133
-76.441598

FIGURE 6H
BARGE SLIP
RESTORATION

SCALE IN FEET

NOT TO SCALE

CALVERT CLIFFS NUCLEAR POWER PLANT

IN:
PATUXENT / WEST CHESAPEAKE BAY

COUNTY OF: CALVERT STATE: MD

APPLICATION BY:
CALVERT CLIFFS 3 NUCLEAR PROJECT, LLC
AND UNISTAR NUCLEAR OPERATING SERVICES,LLC

DATE: 5/09/08 REV1 7/14/08

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