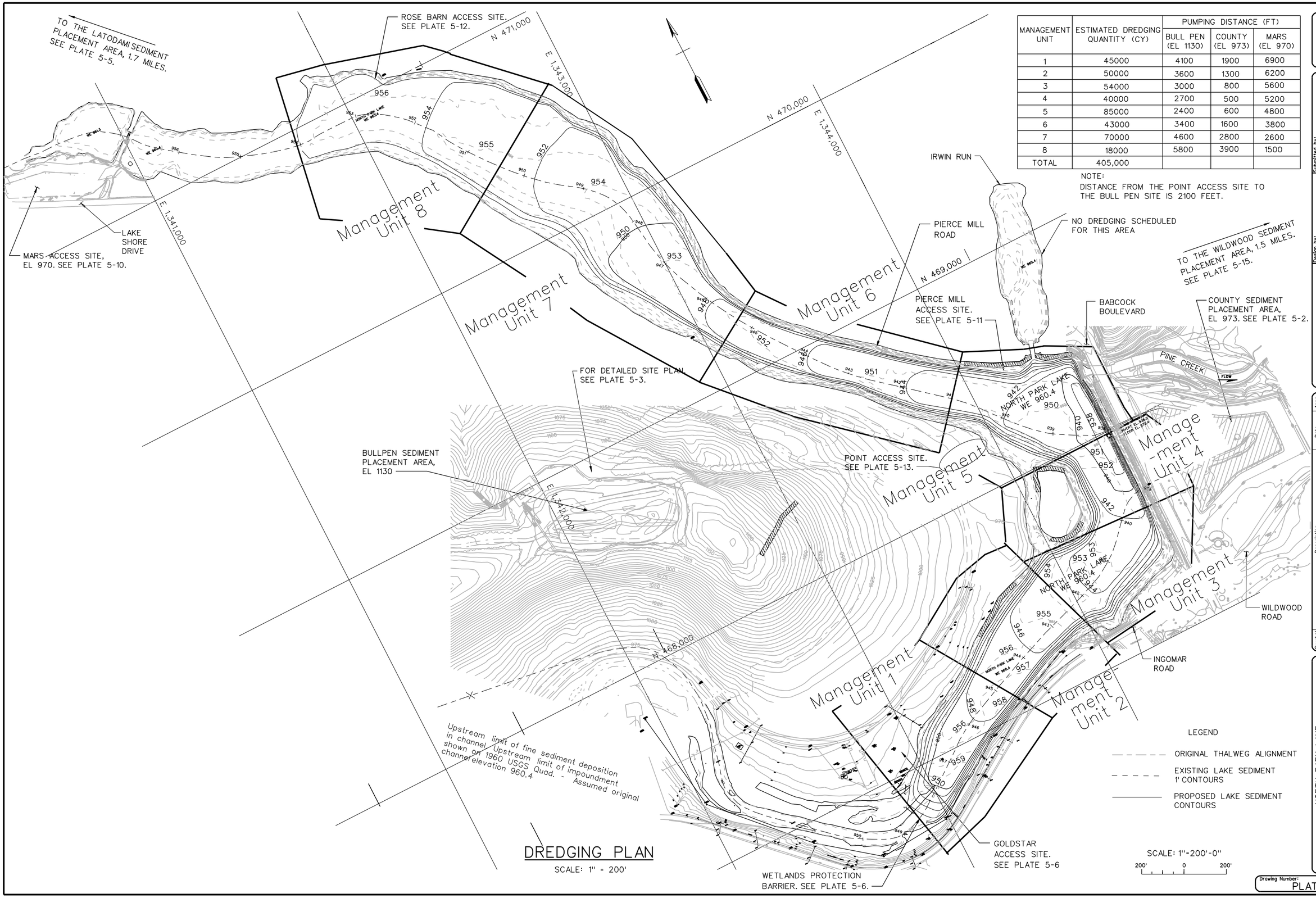



| MANAGEMENT UNIT | ESTIMATED DREDGING QUANTITY (CY) | PUMPING DISTANCE (FT) | | |
|---|---|---|---|---|
| | | BULL PEN (EL 1130) | COUNTY (EL 973) | MARS (EL 970) |
| 1 | 45000 | 4100 | 1900 | 6900 |
| 2 | 50000 | 3600 | 1300 | 6200 |
| 3 | 54000 | 3000 | 800 | 5600 |
| 4 | 40000 | 2700 | 500 | 5200 |
| 5 | 85000 | 2400 | 600 | 4800 |
| 6 | 43000 | 3400 | 1600 | 3800 |
| 7 | 70000 | 4600 | 2800 | 2600 |
| 8 | 18000 | 5800 | 3900 | 1500 |
| TOTAL | 405,000 | | | |

NOTE:
DISTANCE FROM THE POINT ACCESS SITE TO THE BULL PEN SITE IS 2100 FEET.

## DREDGING PLAN

SCALE: 1" = 200'

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X SECTION CHIEF

Sheet 1 of 21

Design by: G. COOPER, P.E.
Dwn by: CDC
Ckd by: X
Submission Date: X
Revision Date: X
IFB NO.:

User: ***username***
Date: ***date***
Plot Scale: ***p_scale***
Pen Table: ***p_pen_table***
Color Table ***color table***

| Symbol | Description | Date | Appr. |
|---|---|---|---|
| | | | |

***filename***

NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
NORTH PARK LAKE DREDGING AREA
DREDGING PLAN

Drawing Number: PLATE 5-1

LEGEND

— X — X — EXISTING SECURITY FENCE

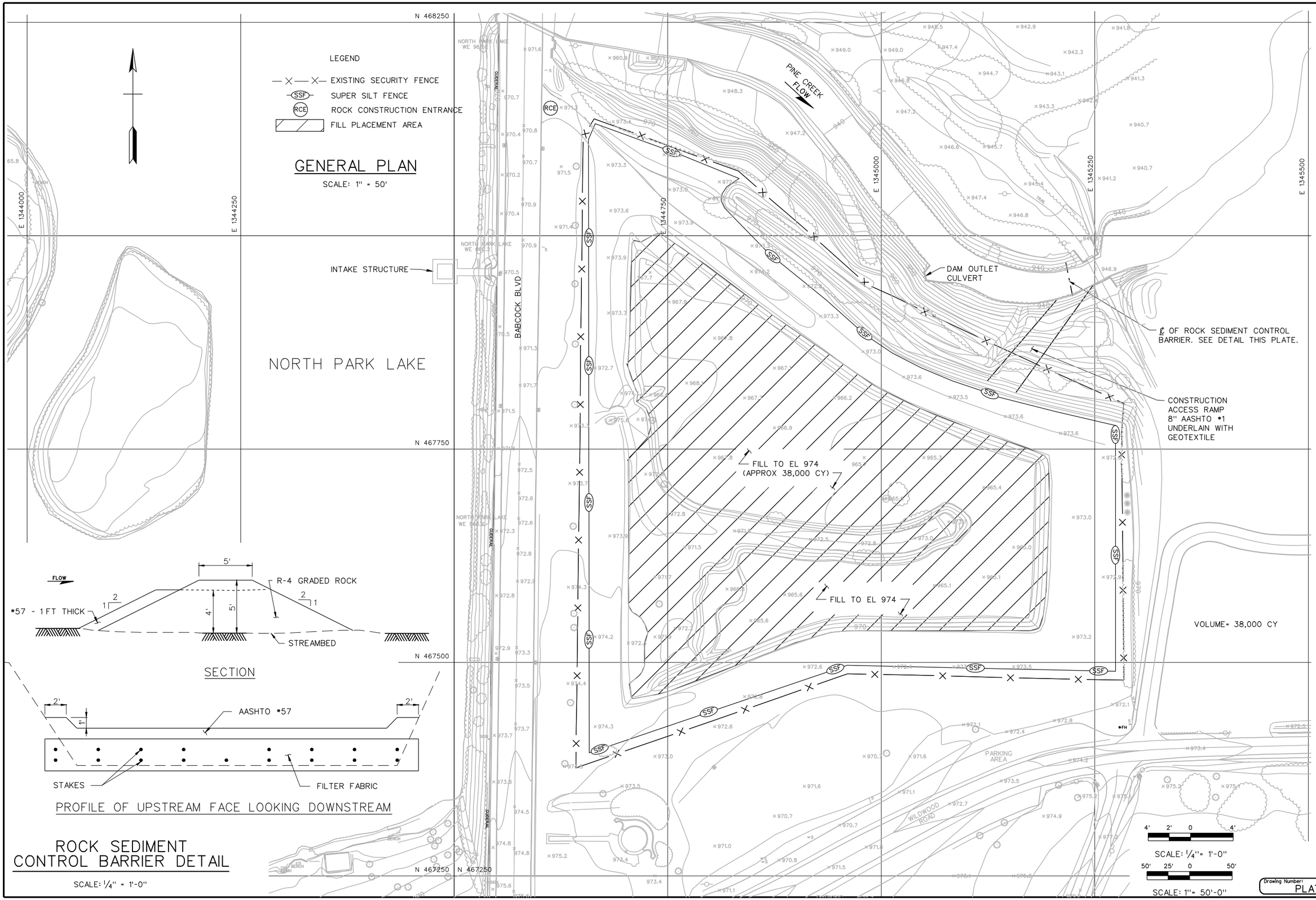
SSF SUPER SILT FENCE

RCE ROCK CONSTRUCTION ENTRANCE

FILL PLACEMENT AREA

## GENERAL PLAN

SCALE: 1" = 50'







SECTION




PROFILE OF UPSTREAM FACE LOOKING DOWNSTREAM

## ROCK SEDIMENT CONTROL BARRIER DETAIL

SCALE: 1/4" = 1'-0"

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X SECTION CHIEF

Design by: X | Dwn by: X | Ckd by: X | Submission Date: X | Revision Date: X | IFB NO.:

Sheet 2 of 21

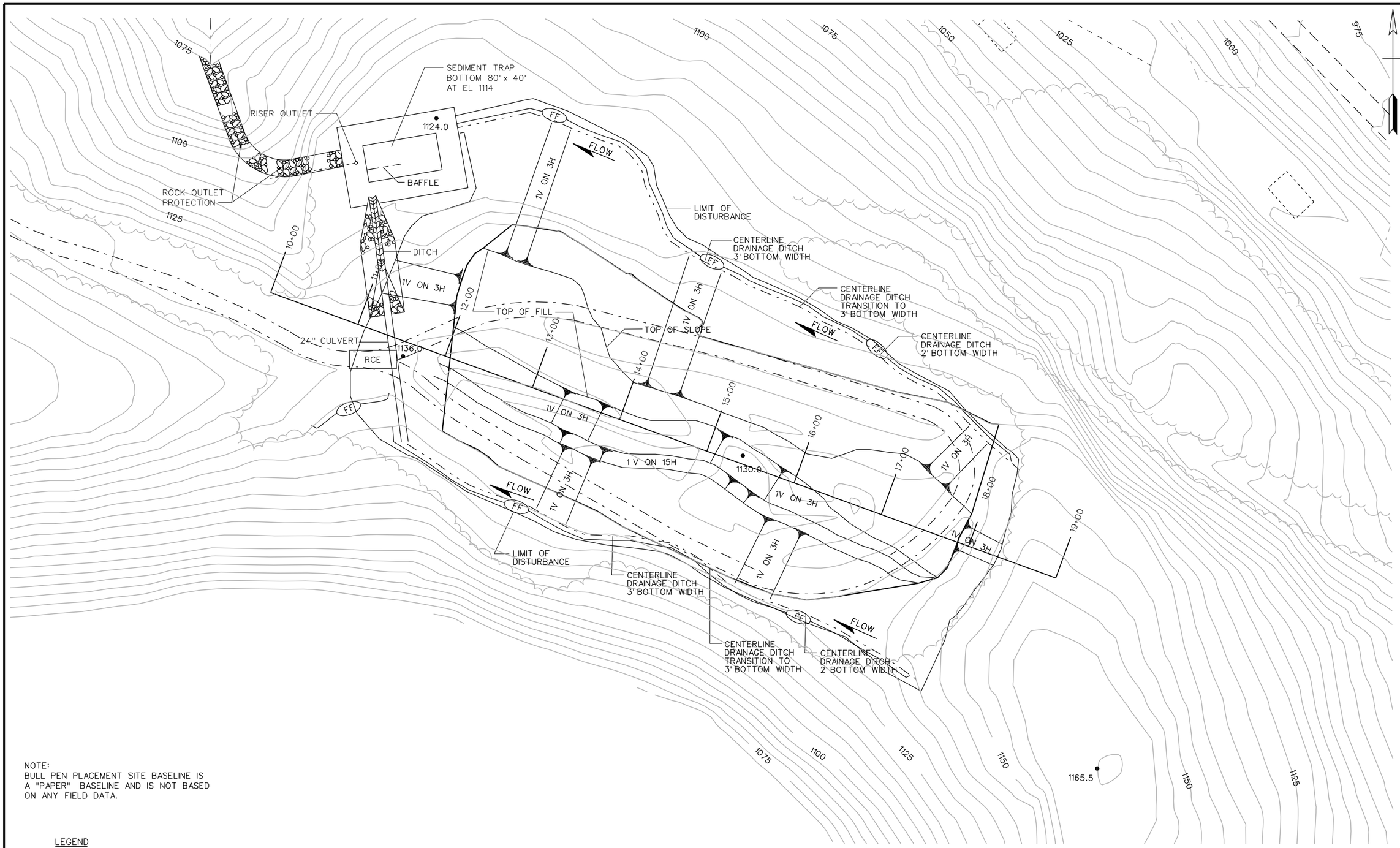
User: ***username***
Date: ***date***
Plot Scale: ***p_scale***
Pen Table: ***p_pen_table***
Color Table: ***colortable***

| Symbol | Description | Date | Appr. |
|---|---|---|---|
| | | | |

***filename***

NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
ALTERNATIVE SITE
COUNTY SEDIMENT PLACEMENT AREA
GENERAL PLAN & ROCK SEDIMENT CONTROL BARRIER DETAIL

Drawing Number: PLATE 5-2




NOTE:
BULL PEN PLACEMENT SITE BASELINE IS A "PAPER" BASELINE AND IS NOT BASED ON ANY FIELD DATA.

LEGEND

- EDGE OF ROAD
- DRAINAGE DITCH
- TURF REINFORCEMENT PROTECTION
- ROCK PROTECTION
- FF — 18" SILT FENCE
- RCE — ROCK CONSTRUCTION ENTRANCE

VOLUME= 115,000 CY

# GENERAL PLAN

50' 25' 0 50'

SCALE: 1"= 50'-0"

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X SECTION CHIEF

Design by: CG | Dwn by: X | Ckd by: X | Submission Date: X | Revision Date: X | IFB NO.:

Sheet 3 of 21

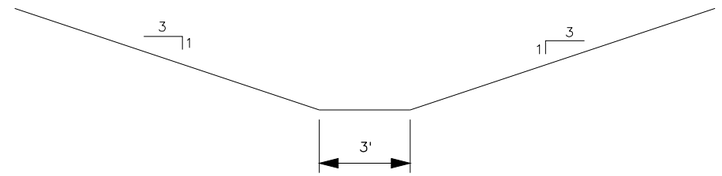
User: ***username***
Date: ***date***
Plot Scale: ***p_scale***
Pen Table: ***p_pen_table***
Color Table ***color table***

| Symbol | Description | Date | Appr. |
|---|---|---|---|
| | | | |

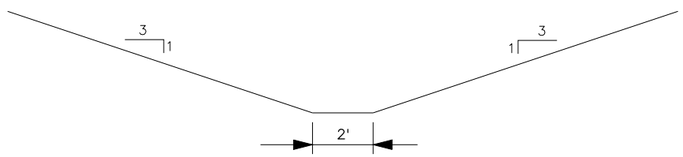
***filename***

NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
ALTERNATIVE SITE
BULL PEN SEDIMENT PLACEMENT AREA
GENERAL PLAN

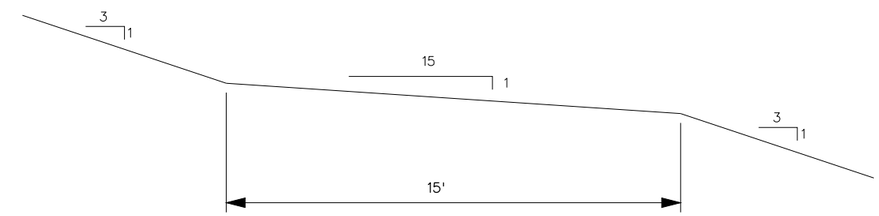
Drawing Number: PLATE 5-3




DITCH DETAIL
LEFT & RIGHT SIDE
STA 15+00 TO SED POND
NOT TO SCALE

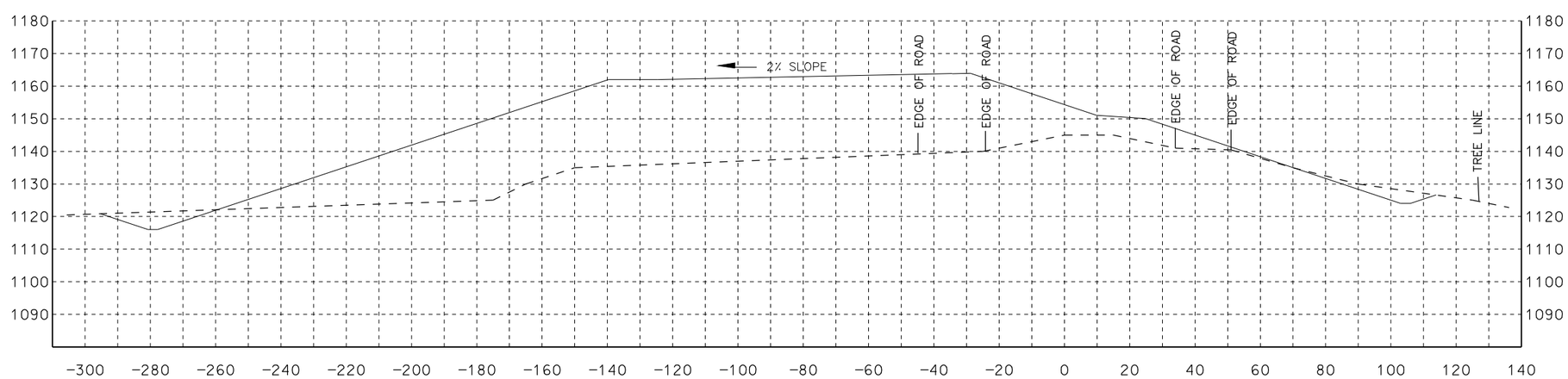



DITCH DETAIL
LEFT & RIGHT SIDE
STA 18+00 TO 16+00
NOT TO SCALE




BENCH DETAIL
RIGHT SIDE
NOT TO SCALE

NOTE:
BOTTOM WIDTH OF DRAINAGE DITCH TRANSITIONS
BETWEEN STA 16+00 & 15+00




TYPICAL CROSS SECTION

LEGEND:

SEDIMENT PLACEMENT

EXISTING GROUND

US ARMY CORPS
OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X SECTION CHIEF

Design by: CG
Dwn by: X
Ckd by: X
Submission Date: X
Revision Date: X
IFB NO.:

Sheet 4 of 21

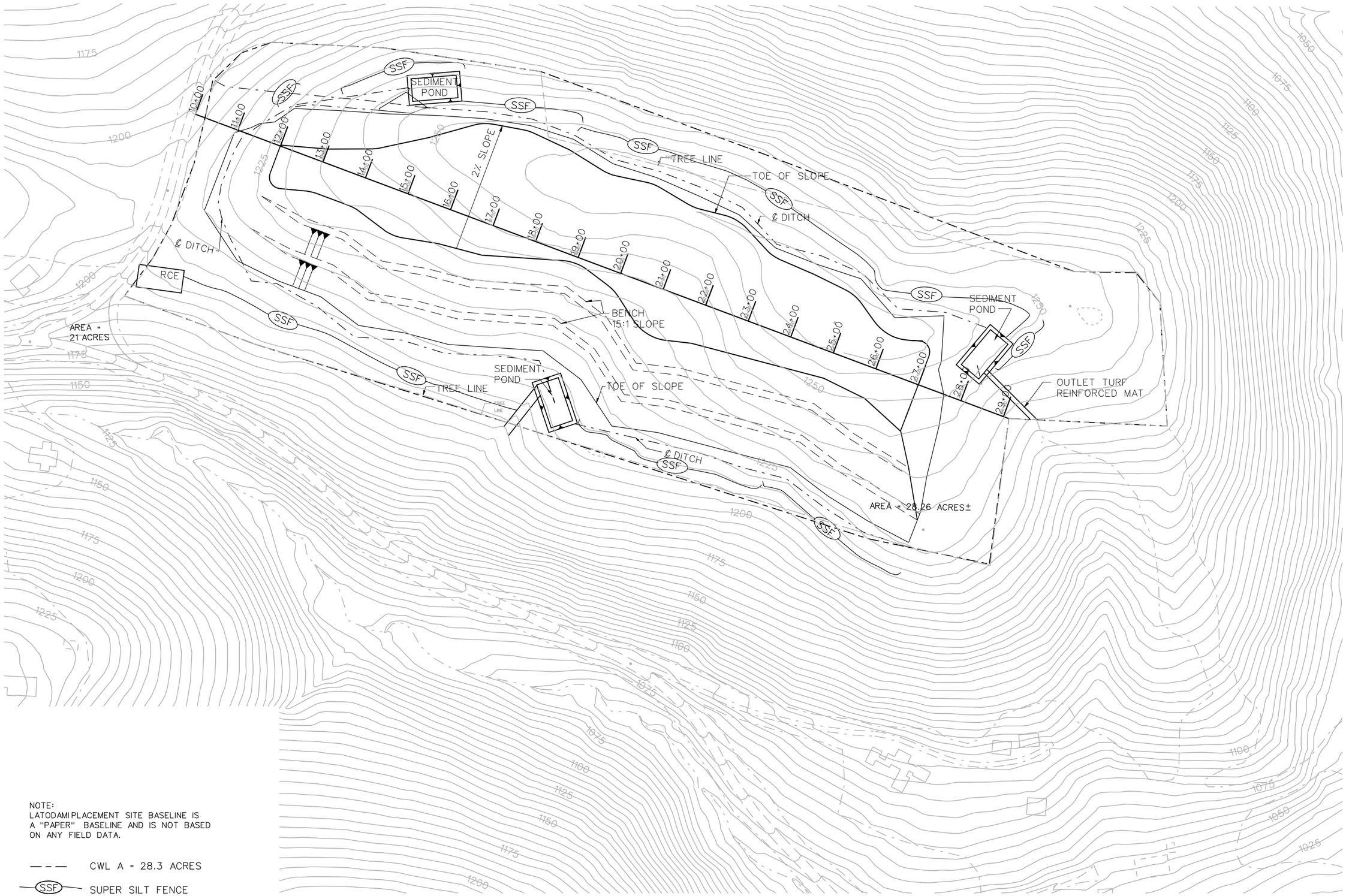
User: ****username****
Date: ****system****
Plot Scale: ****p_scale****
Pen Table: ****p_pen_table****
Color Table ****colortable****

| Symbol | Description | Date | Appr. |
|---|---|---|---|
| | | | |

****filename****

NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
ALTERNATIVE SITE
BULL PEN SEDIMENT PLACEMENT AREA
TYPICAL CROSS SECTION AND DRAINAGE DITCH DETAILS

Drawing Number:
PLATE 5-4




NOTE:
LATODAMI PLACEMENT SITE BASELINE IS A "PAPER" BASELINE AND IS NOT BASED ON ANY FIELD DATA.

— — — CWL A = 28.3 ACRES

SSF — SUPER SILT FENCE

RCE — ROCK CONSTRUCTION ENTRANCE

# GRADING PLAN

SCALE: 1" = 100'

100' 50' 0 100'

SCALE: 1"= 100'-0"

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: SECTION CHIEF

Design by: GARY COOPER
Dwn by: CDC
Ckd by: X
Submission Date: X
Revision Date: X
IFB NO.: X

Sheet 5 of 21

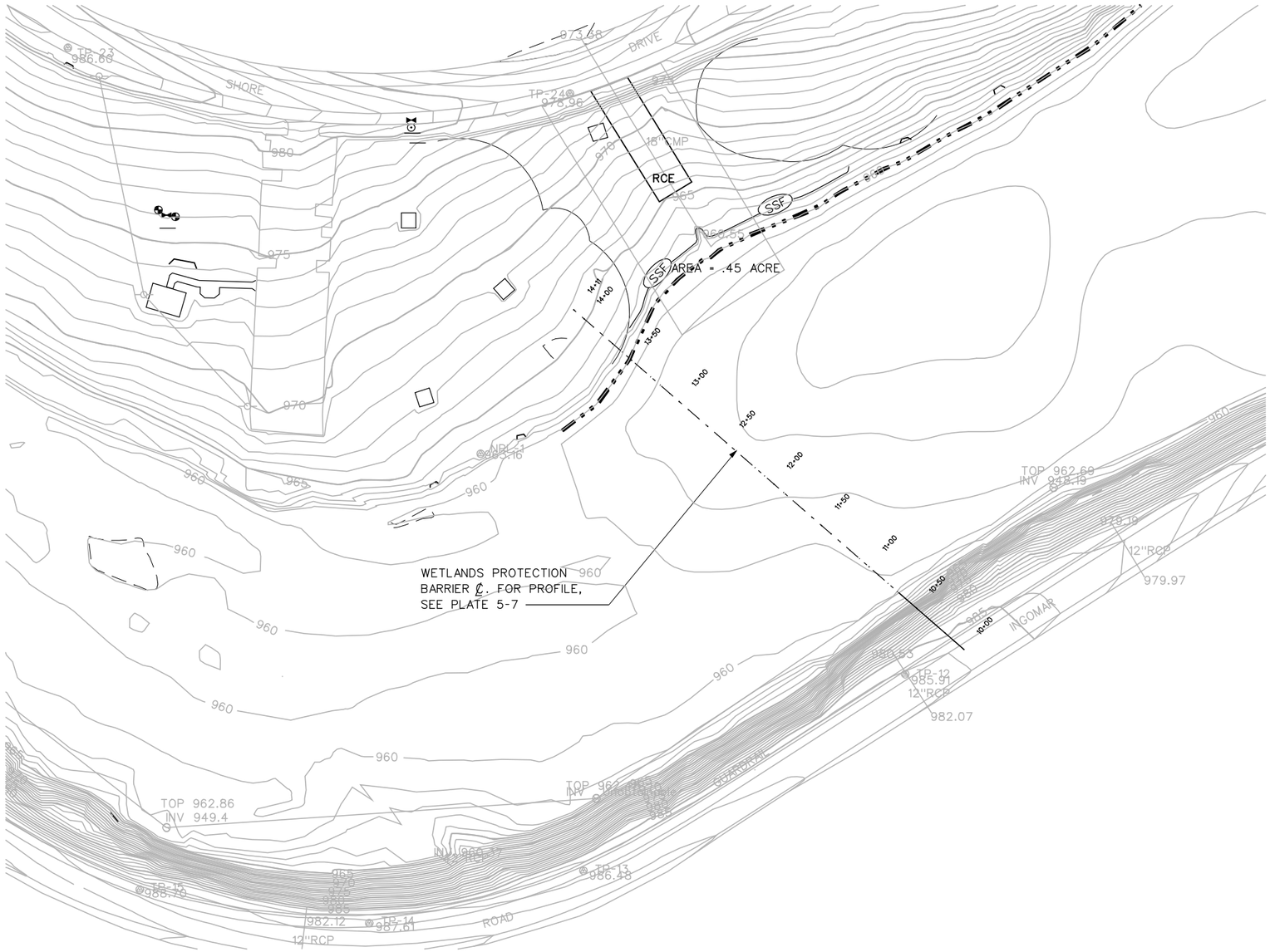
User: ****username****
Date: ****date****
Plot Scale: ****p_scale****
Pen Table: ****p_pen_table****
Color Table: ****colortable****

| Symbol | Description | Date | Appr. |
|---|---|---|---|
| | | | |

****filename****

NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
ALTERNATIVE SITE
LATODAMI SEDIMENT PLACEMENT AREA
GRADING PLAN

Drawing Number: PLATE 5-5




NOTE:
GOLDSTAR ACCESS SITE BASELINE IS A "PAPER" BASELINE AND IS NOT BASED ON ANY FIELD DATA.

LEGEND

- PICNIC PAVILION ON CONCRETE PAD
- BENCH
- WATER VALVE (WV)
- WV-FH
- POLE
- MANHOLE
- RCE — ROCK CONSTRUCTION ENTRANCE
- SSF — SUPER SILT FENCE

# GRADING PLAN

SCALE: 1" = 50'

50' 25' 0 50'

SCALE: 1"= 50'-0"

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X SECTION CHIEF

Design by: CG
Dwn by: X Ckd by: X
Submission Date: X Revision Date: X
IFB NO.:

Sheet 6 of 21

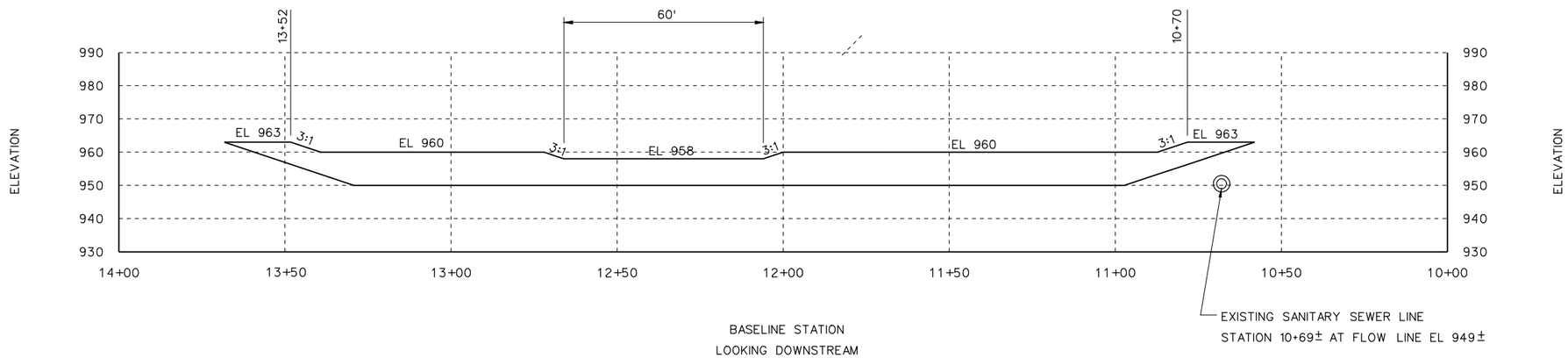
User: ****username****
Date: ****date****
Plot Scale: ****p_scale****
Pen Table: ****p_pen_table****
Color Table: ****colortable****

| Symbol | Description | Date | Appr. |
|---|---|---|---|
| | | | |

****filename****

NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
GOLDSTAR ACCESS SITE
GRADING PLAN

Drawing Number:
PLATE 5-6




# WETLANDS PROTECTION BARRIER PROFILE

SCALE: 1" = 20'

20' 10' 0 20'

SCALE: 1"= 20'-0"

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X
SECTION CHIEF

Design by: CG
Dwn by: X
Ckd by: X
Submission Date: X
Revision Date: X
IFB NO.:

Sheet 7 of 21

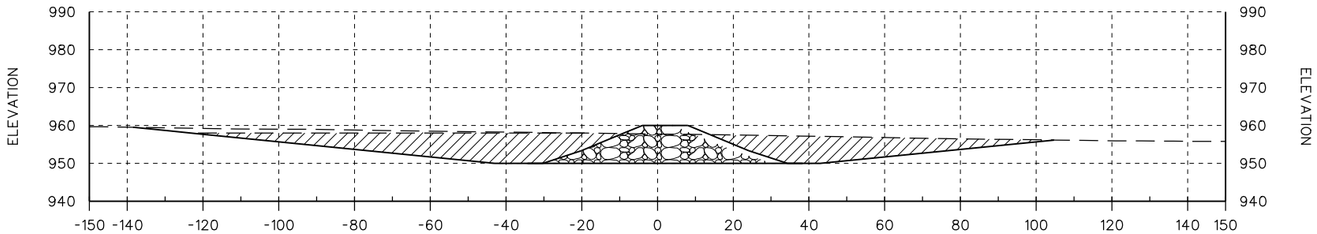
User: ***username***
Date: ***mm/dd/yyyy***
Plot Scale: ***p_scale***
Pen Table: ***p_pen_table***
Color Table ***colortable***

| Symbol | Description | Date | Appr. |
|---|---|---|---|
| | | | |

***filename***

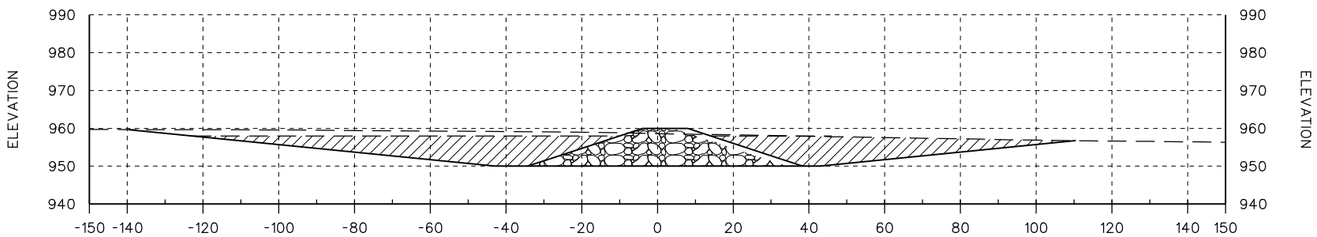
NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
GOLDSTAR ACCESS SITE
WETLANDS PROTECTION BARRIER PROFILE

Drawing Number:
PLATE 5-7



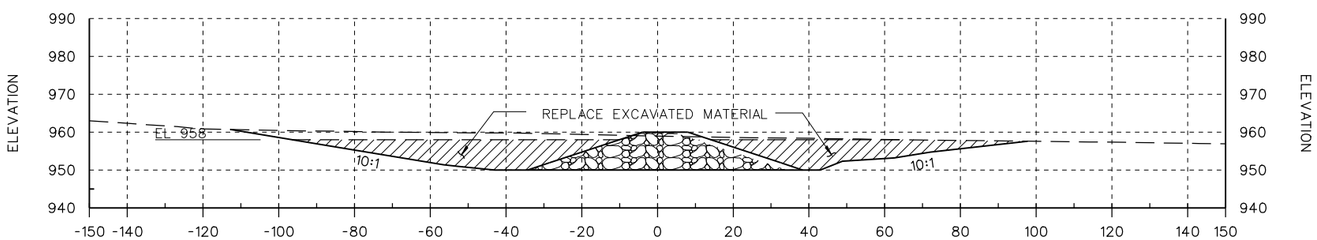

12+00

EXCAVATION: 1,232.2 SF
ROCK FILL: 370.1 SF




11+50

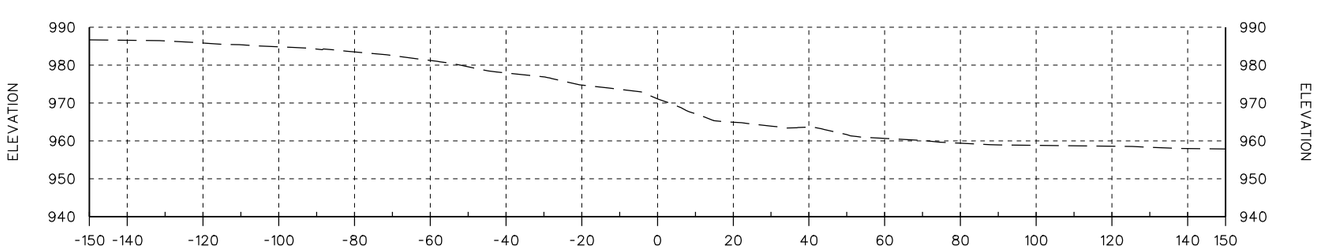
EXCAVATION: 1,306.6 SF
ROCK FILL: 423.2 SF




11+00
(TYPICAL)

EXCAVATION: 1,126.8 SF
ROCK FILL: 423.1SF

BEGIN ROCK DIKE
STATION 10+58




10+50

## WETLANDS PROTECTION BARRIER CROSS SECTIONS

SCALE: 1" = 20'

NOTES:

1. APPROXIMATELY 10,000 CY OF EXCAVATION. THE 10:1 EXCAVATION SLOPES ARE SHALLOW FOR STABILITY.
2. APPROXIMATELY 3,450 CY OF ROCK
3. TYPICAL TOP WIDTH IS 12 FEET AND ALL ROCK SLOPES ARE 3:1

LEGEND

- ROCK DIKE
- EXISTING GROUND
- EXCAVATION LIMITS
- TOP OF BACKFILL LAKE SEDIMENT
- ROCK DIKE

20' 10' 0 20'

SCALE: 1"= 20'-0"

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X SECTION CHIEF
FB NO.:
Sheet 8 of 21

Design by: GC
Dwn by: X
Ckd by: X
Submission Date: X
Revision Date: X

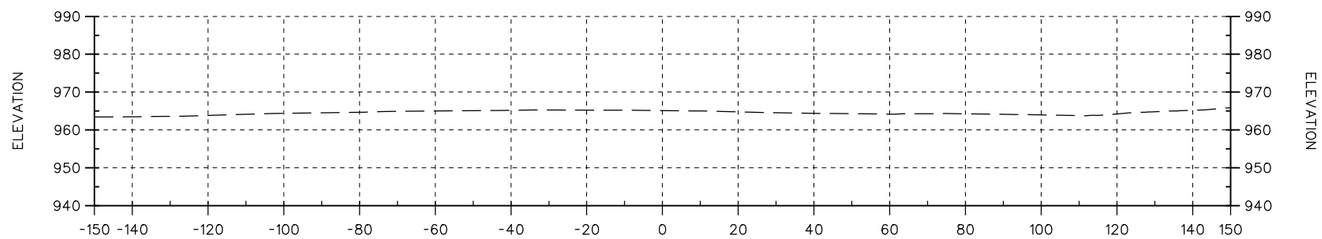
User: ****username****
Date: ****sytime****
Plot Scale: ****ip_scale****
Pen Table: ****ip_pen_table****
Color Table ****colortable****

| Symbol | Description | Date | Appr. |
|---|---|---|---|

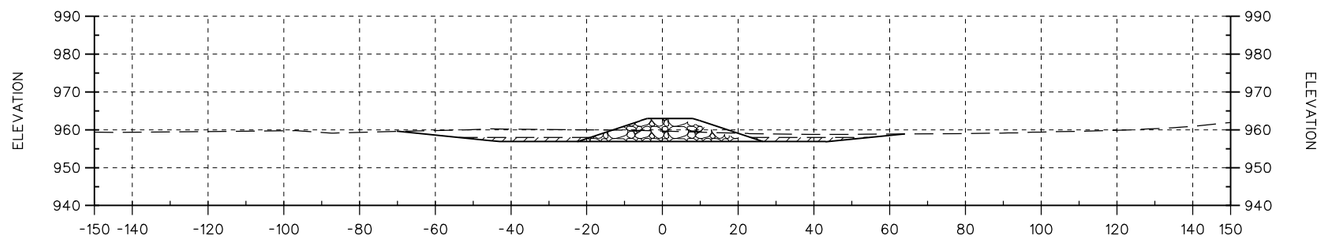
****filename****

NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
GOLDSTAR ACCESS SITE
WETLANDS PROTECTION BARRIER
CROSS SECTIONS 10+50 TO 12+00

Drawing Number: PLATE 5-8




14+00

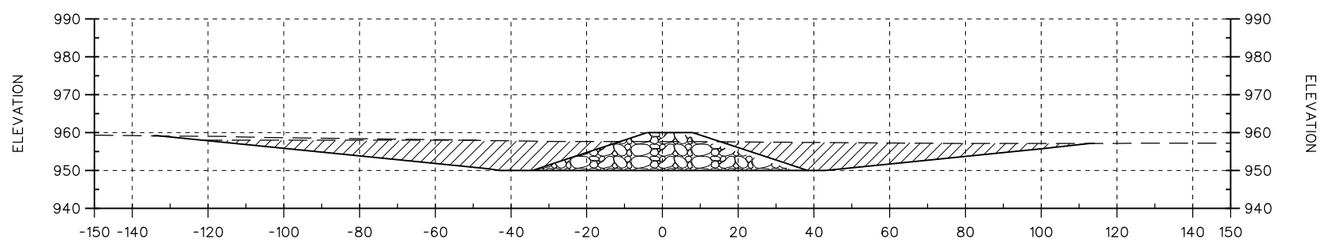



13+50

EXCAVATION: 369.5 SF

ROCK FILL: 185.1 SF

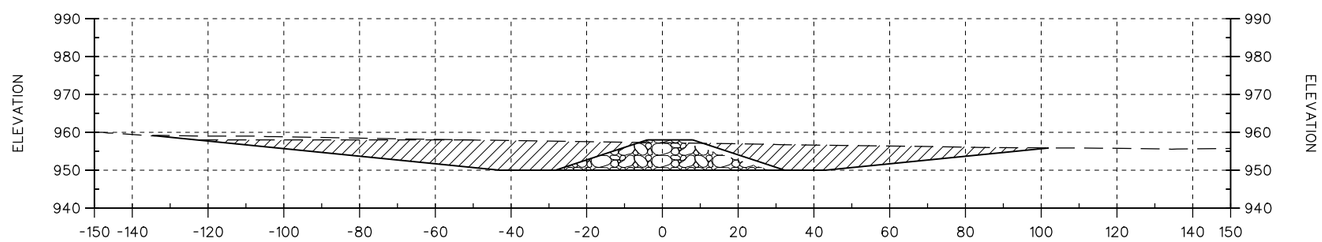
END ROCK DIKE
STATION 13+67




13+00

EXCAVATION: 1,257.6 SF

ROCK FILL: 423.1 SF




12+50

EXCAVATION: 1,144.6 SF

ROCK FILL: 290.3 SF

NOTES:

1. APPROXIMATELY 10,000 CY OF EXCAVATION. THE 10:1 EXCAVATION SLOPES ARE SHALLOW FOR STABILITY.
2. APPROXIMATELY 3,450 CY OF ROCK
3. TYPICAL TOP WIDTH IS 12 FEET AND ALL ROCK SLOPES ARE 3:1

LEGEND

- ROCK DIKE
- EXISTING GROUND
- EXCAVATION LIMITS
- TOP OF BACKFILL LAKE SEDIMENT
- ROCK DIKE
- EXCAVATION

20' 10' 0 20'

SCALE: 1"= 20'-0"

# WETLANDS PROTECTION BARRIER CROSS SECTIONS

SCALE: 1" = 20'

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X SECTION CHIEF

Design by: CG
Dwn by: X
Ckd by: X
Submission Date: X
Revision Date: X
IFB NO.:

Sheet 9 of 21

User: ****username****
Date: ****date****
Plot Scale: ****p_scale****
Pen Table: ****p_pen_table****
Color Table: ****colortable****

| Symbol | Description | Date | Appr. |
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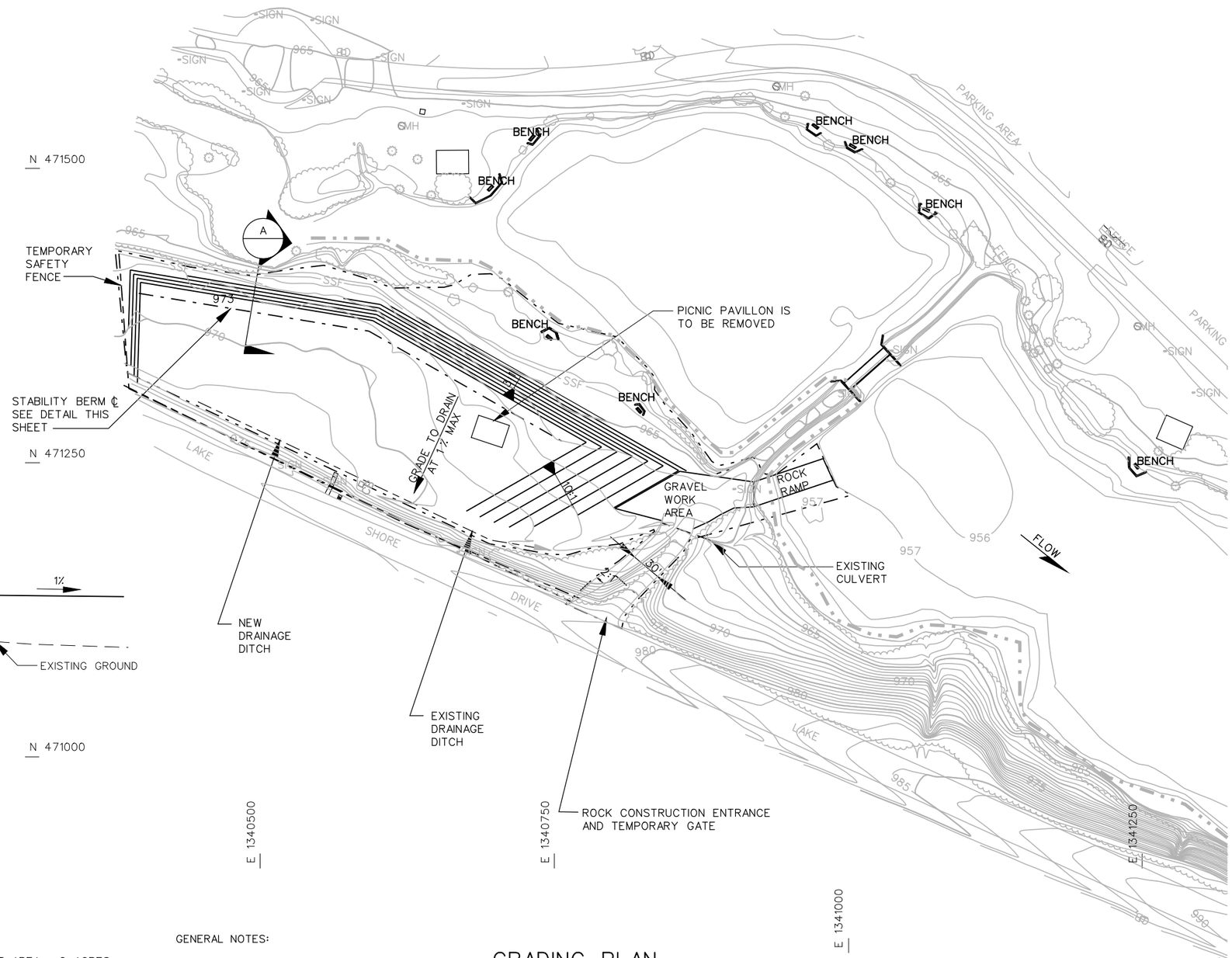
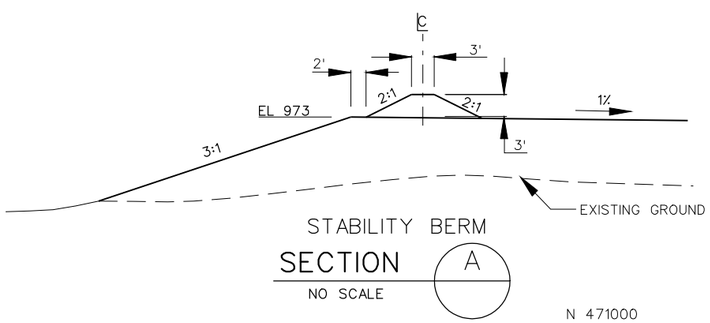
NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
GOLDSTAR ACCESS SITE
WETLANDS PROTECTION BARRIER
CROSS SECTIONS 12+50 TO 14+00

Drawing Number: PLATE 5-9




NOTE:
MARS ACCESS SITE BASELINE IS A "PAPER" BASELINE AND IS NOT BASED ON ANY FIELD DATA.

LEGEND

| | |
|---|---|
| SSF | SUPER SILT FENCE |
| — - - — | CONTRACTOR WORK LIMIT AREA = 2 ACRES |
| □ | PICNIC PAVILION |
| | BENCH |
| | MANHOLE (MH) |

GENERAL NOTES:

1. ACCESS ROAD WIDTH IS 30'. CONSTRUCT NEW FILL ON WEST SIDE.

# GRADING PLAN

SCALE: 1" = 50'

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X SECTION CHIEF

Design by: CG
Dwn by: X
Ckd by: X
Submission Date: X
Revision Date: X
IFB NO.:

Sheet 10 of 21

User: ****username****
Date: ****date****
Plot Scale: ****p_scale****
Pen Table: ****p_pen_table****
Color Table: ****color table****

| Symbol | Description | Date | Appr. |
|---|---|---|---|
| | | | |

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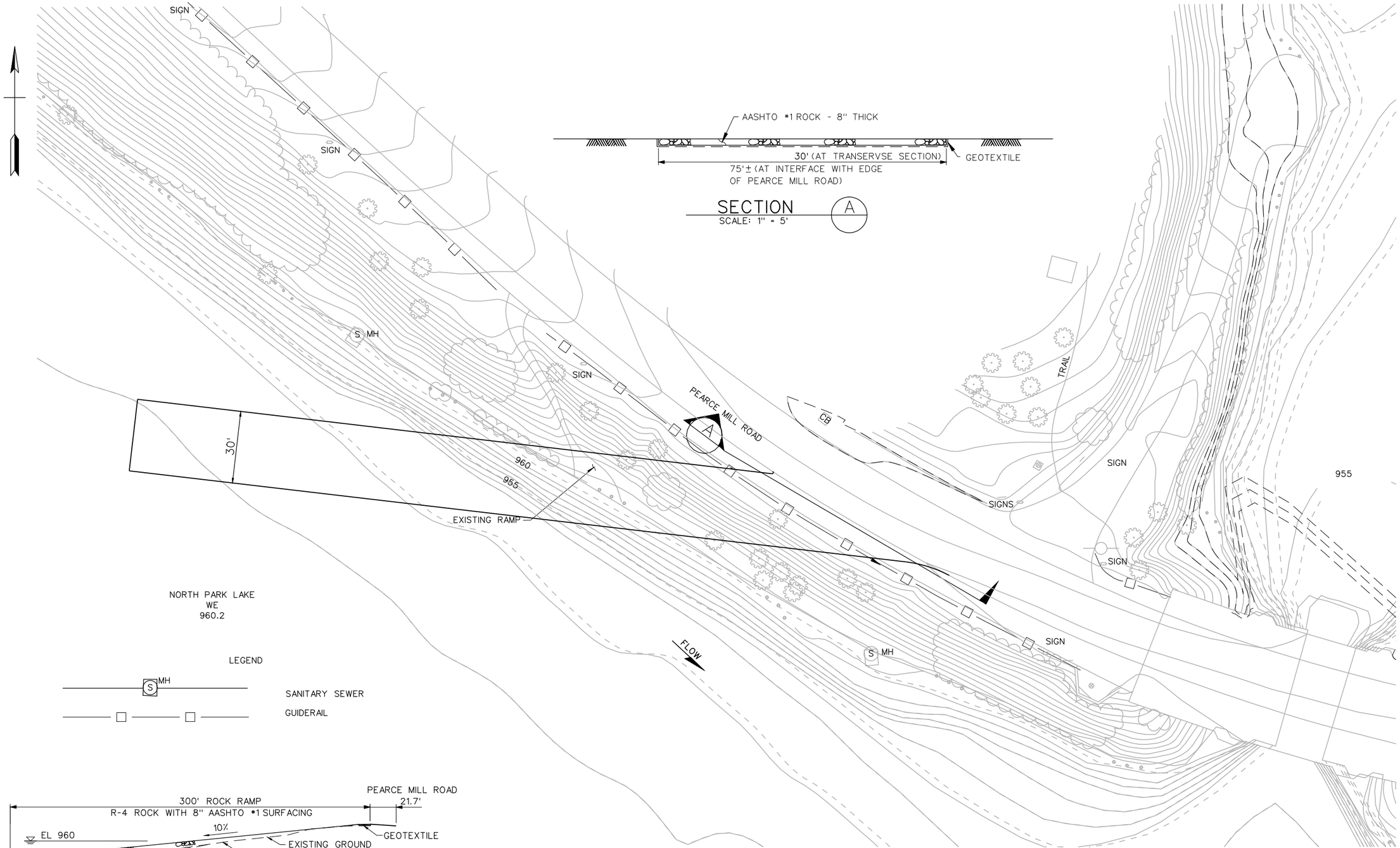
NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
MARS ACCESS SITE
GRADING PLAN

Drawing Number: PLATE 5-10

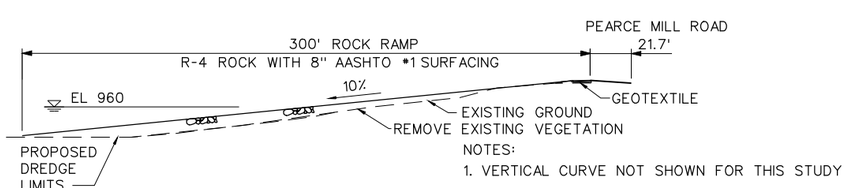






SECTION A

SCALE: 1" = 5'




NOTES:

1. VERTICAL CURVE NOT SHOWN FOR THIS STUDY
2. ROCK FILL BELOW ELEVATION 960 WILL REMAIN FOR FISH HABITAT. ROCK FILL REMOVED ABOVE ELEVATION 960 WILL BE USED FOR OTHER FISH STRUCTURES.

## TYPICAL RAMP SECTION

SCALE: 1" = 40'

## PEARCE MILL ROAD ACCESS SITE DETAIL PLAN VIEW

SCALE: 1" = 10'

SCALE: 1"=40'-0"

40' 0 40'

SCALE: 1"=10'

0 10' 20'

SCALE: 1"=5'-0"

5' 0 5'

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X
SECTION CHIEF

Design by: CG
Dwn by: X
Ckd by: X
Submission Date: X
Revision Date: X
IFB NO.:

Sheet 11 of 21

User: ****username****
Date: ****current****
Plot Scale: ****p_scale****
Pen Table: ****p_pen_table****
Color Table: ****colortable****

| Symbol | Description | Date | Appr. |
|---|---|---|---|
| | | | |

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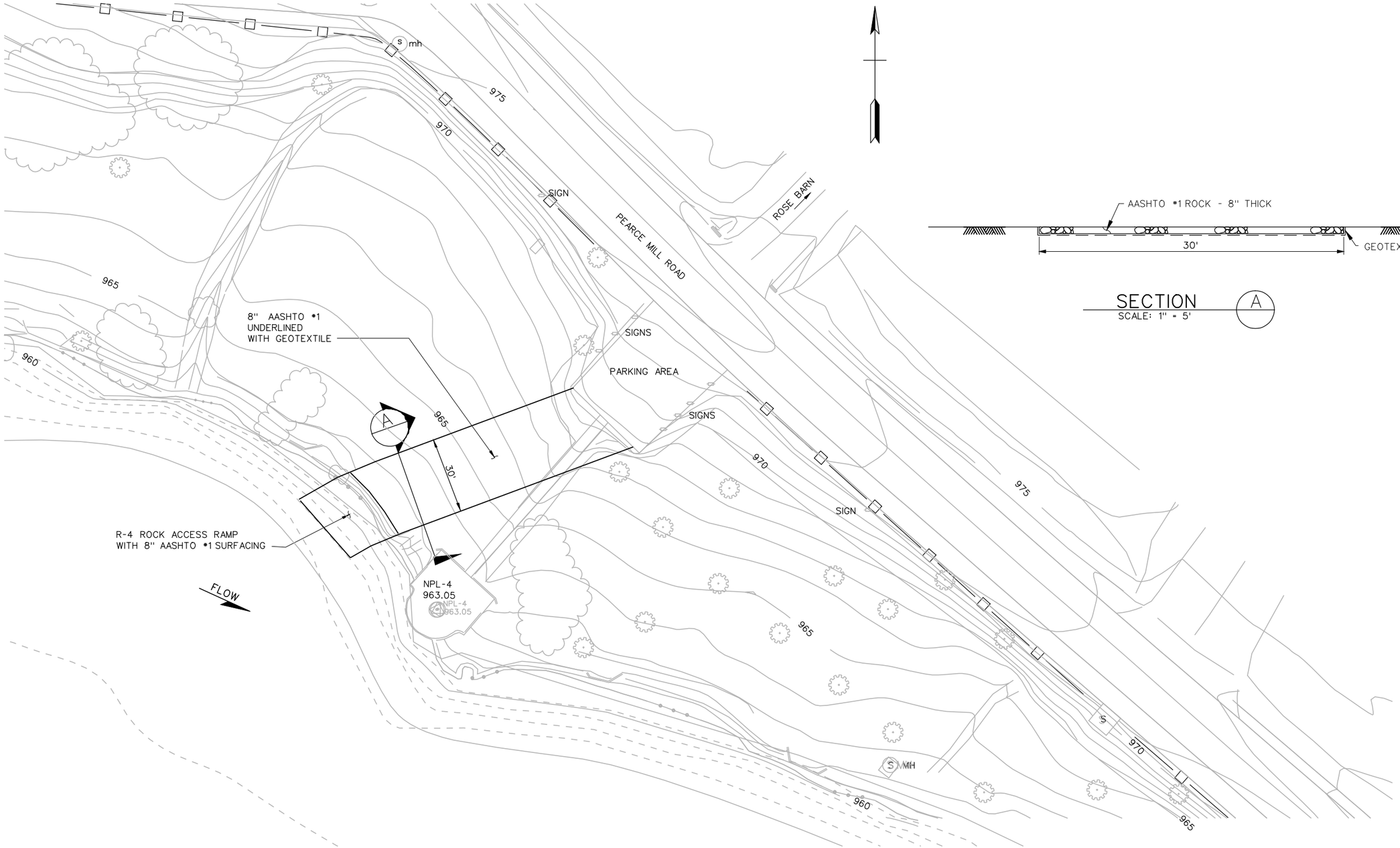
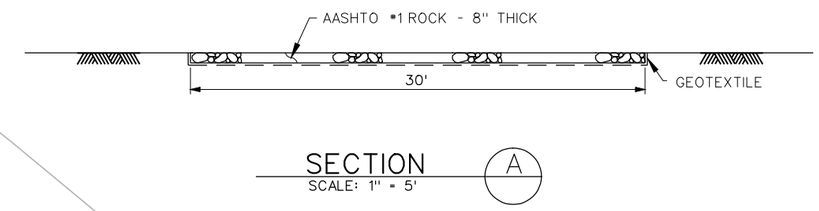
NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
PEARCE MILL ROAD ACCESS SITE
DETAIL PLAN VIEW, TYPICAL RAMP SECTION, AND SECTION A-A

Drawing Number:
PLATE 5-11




SECTION A
SCALE: 1" = 5'

LEGEND

GUIDERAIL

# ROSE BARN ACCESS SITE DETAILED SITE PLAN

SCALE: 1" = 20'

SCALE: 1"=20'-0"
20' 0 20'

SCALE: 1"=5'-0"
5' 0 5'

US ARMY CORPS
OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X SECTION CHIEF

Design by: CG
Dwn by: X
Ckd by: X
Submission Date: X
Revision Date: X
IFB NO.:

Sheet 12 of 21

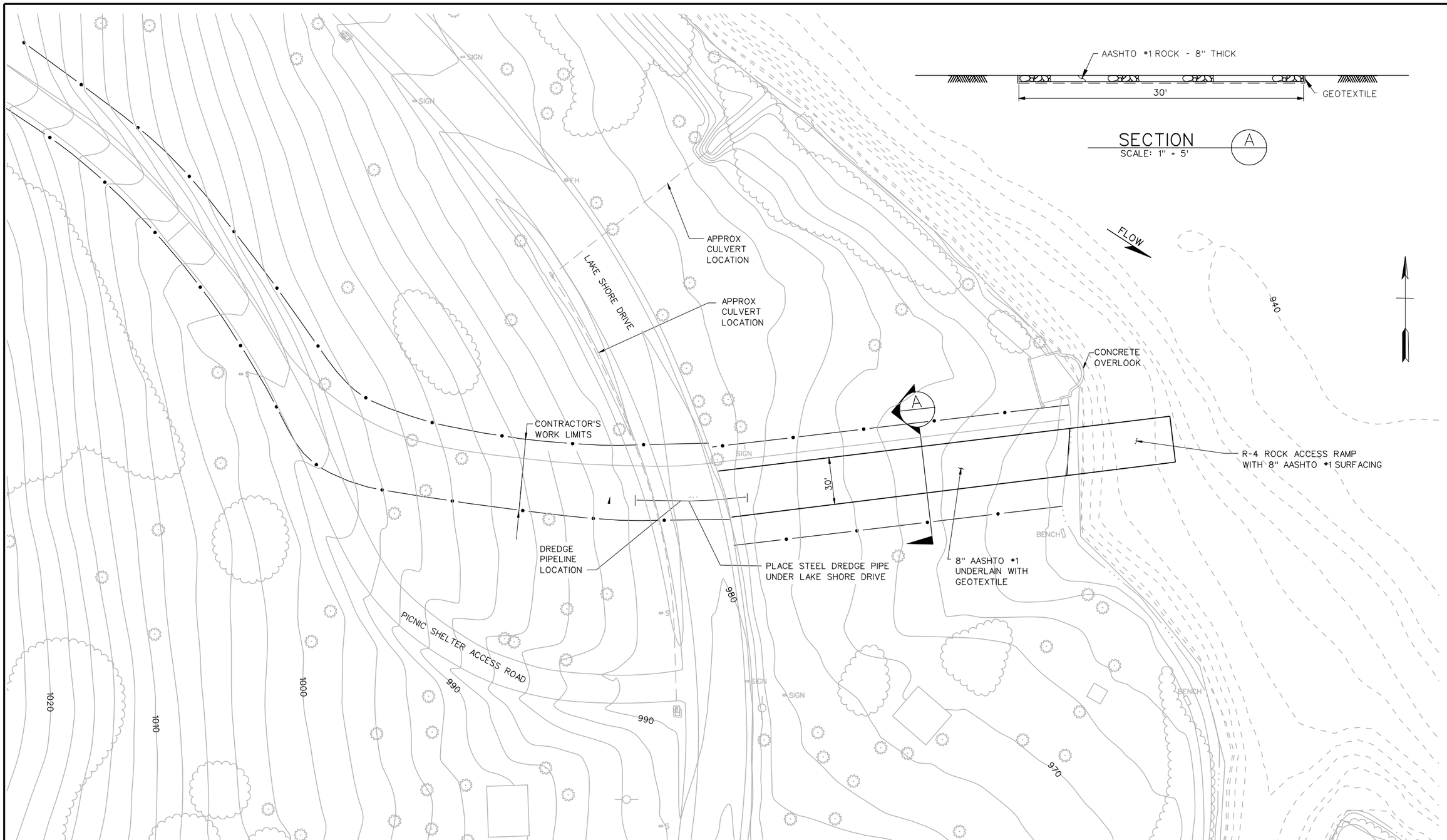
User: ***username***
Date: ***mm/dd/yyyy***
Plot Scale: ***p_scale***
Pen Table: ***p_pen_table***
Color Table ***color table***

| Symbol | Description | Date | Appr. |
|---|---|---|---|
| | | | |

***filename***

NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
ROSE BARN ACCESS SITE
DETAILED SITE PLAN AND SECTION A-A

Drawing Number:
PLATE 5-12




LEGEND

CONTRACTOR'S WORK LIMITS

# POINT ACCESS DETAILED SITE PLAN

SCALE: 1" = 30'

SCALE: 1"=30'-0"

30' 0 30'

SCALE: 1"=5'-0"

5' 0 5'

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X
SECTION CHIEF

Design by: G. COOPER, P.E.
Dwn by: CDC
Ckd by: X
Submission Date: X
Revision Date: X
IFB NO.: X

Sheet 13 of 21

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Pen Table: ****p_pen_table****
Color Table: ****colortable****

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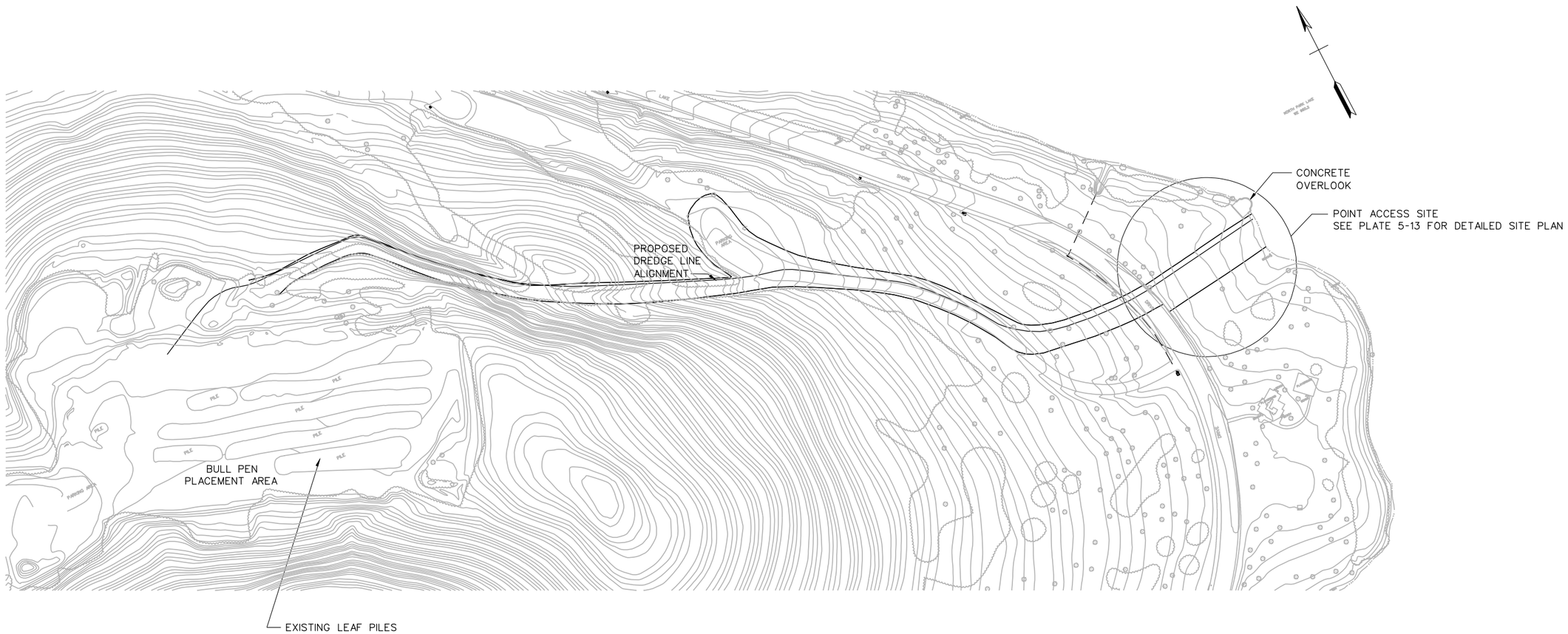
NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
POINT ACCESS SITE
DETAILED SITE PLAN AND SECTION A-A

Drawing Number:
PLATE 5-13




## PROPOSED DREDGEPIPE ALIGNMENT

SCALE: 1" = 100'

SCALE: 1"=100'-0"

100' 0 100'

US ARMY CORPS
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PITTSBURGH DISTRICT

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Sheet 14 of 21

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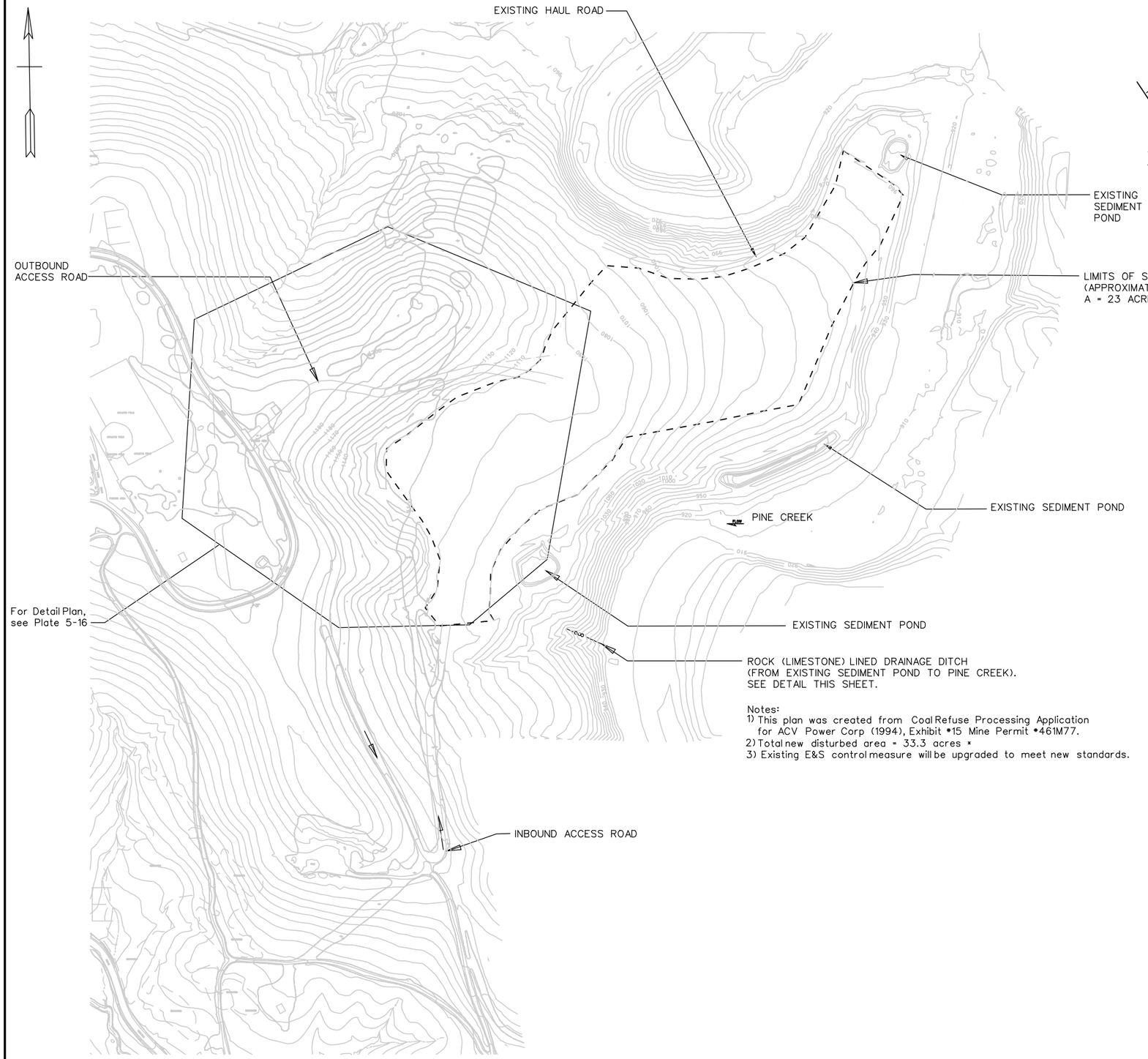
NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
ALTERNATIVE SITE
PROPOSED DREDGE LINE ALIGNMENT
BULLPEN SEDIMENT PLACEMENT AREA

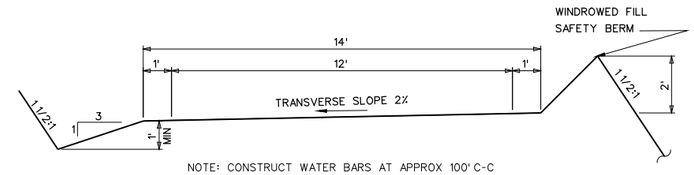
Drawing Number:
PLATE 5-14




Notes:
1) This plan was created from Coal Refuse Processing Application for ACV Power Corp (1994), Exhibit #15 Mine Permit #461M77.
2) Total new disturbed area = 33.3 acres *
3) Existing E&S control measure will be upgraded to meet new standards.

## GENERAL PLAN

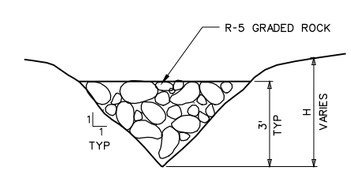
SCALE: 1" = 200'-0"




NOTE: CONSTRUCT WATER BARS AT APPROX 100' C-C

## TYPICAL ONE WAY HAUL ROAD SIDE HILLCUT SECTION

SCALE: 3/8" = 1'-0"




LOOKING DOWNSTREAM

## TYPICAL ROCK (LIMESTONE) LINED DRAINAGE DITCH

NO SCALE

SCALE: 1"=200'-0"

200' 0 200'

* Areas calculated from this drawing

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

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Submission Date: X
Revision Date: X
IFB NO.:

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Date: ***date***
Plot Scale: ***p_scale***
Pen Table: ***p_pen_table***
Color Table: ***color table***

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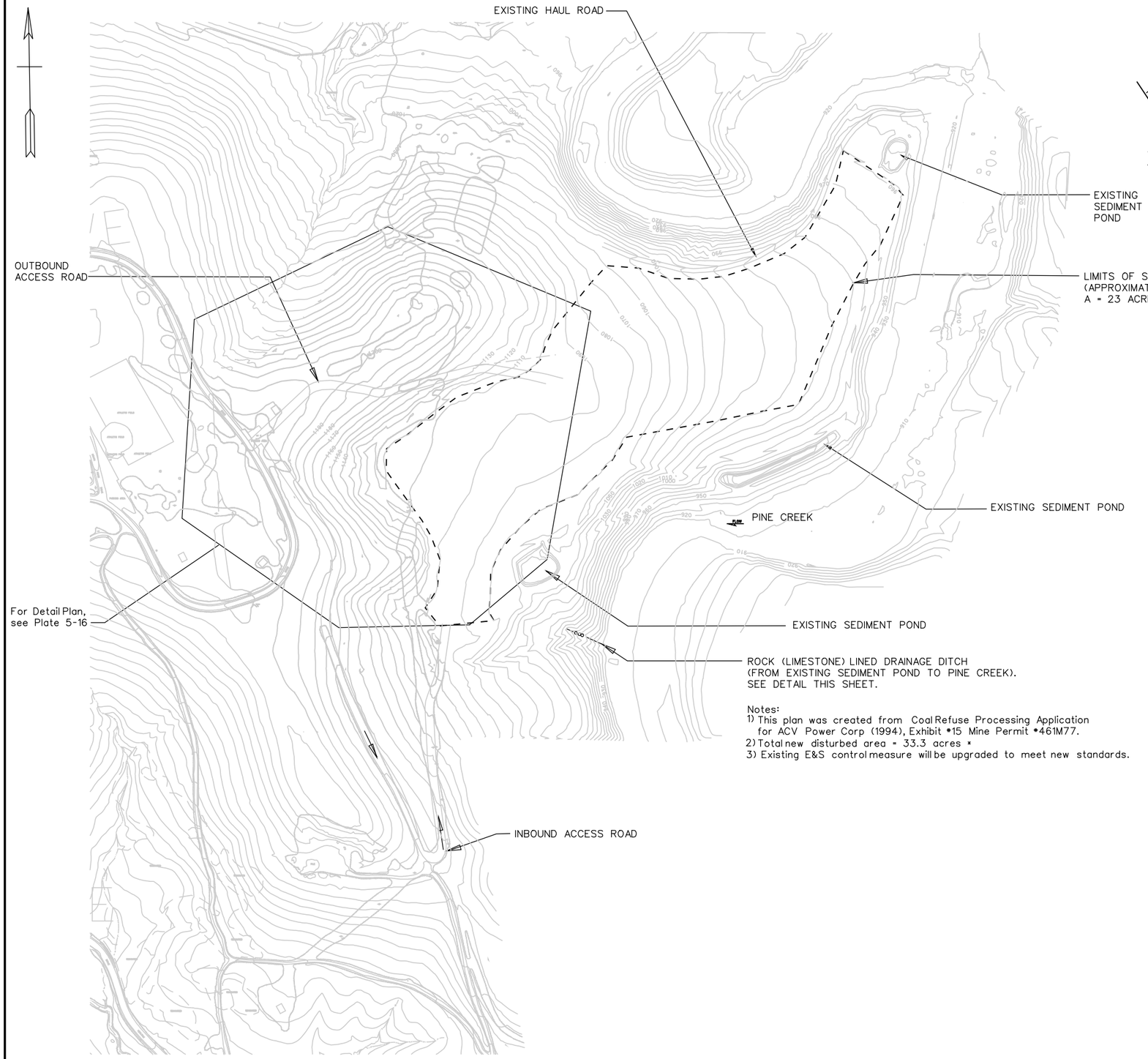
NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
WILDWOOD MINE SEDIMENT PLACEMENT AREA
GENERAL PLAN, SECTION, AND DETAIL

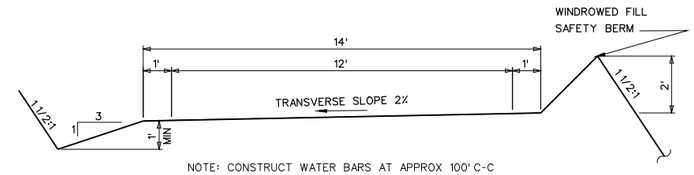
Drawing Number: PLATE 5-15




Notes:
1) This plan was created from Coal Refuse Processing Application for ACV Power Corp (1994), Exhibit #15 Mine Permit #461M77.
2) Total new disturbed area = 33.3 acres *
3) Existing E&S control measure will be upgraded to meet new standards.

## GENERAL PLAN

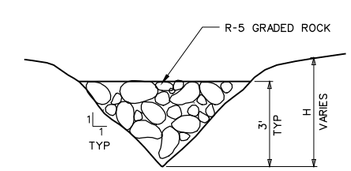
SCALE: 1" = 200'-0"




NOTE: CONSTRUCT WATER BARS AT APPROX 100' C-C

## TYPICAL ONE WAY HAUL ROAD SIDE HILLCUT SECTION

SCALE: 3/8" = 1'-0"




LOOKING DOWNSTREAM

## TYPICAL ROCK (LIMESTONE) LINED DRAINAGE DITCH

NO SCALE

SCALE: 1"=200'-0"

200' 0 200'

* Areas calculated from this drawing

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

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Sheet 15 of 21

User: ***username***
Date: ***date***
Plot Scale: ***p_scale***
Pen Table: ***p_pen_table***
Color Table: ***color table***

| Symbol | Description | Date | Appr. |
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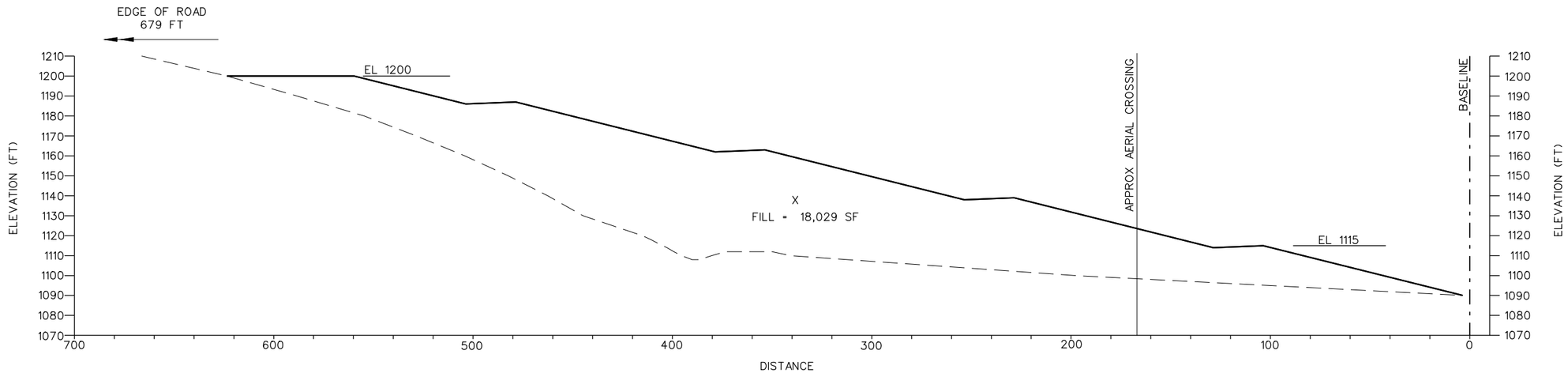
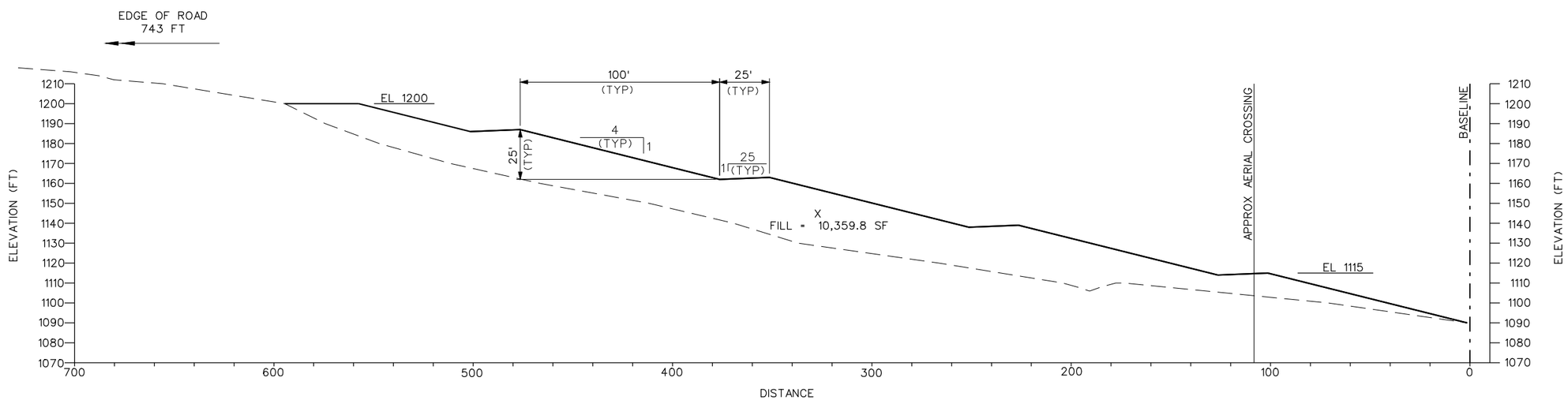
NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
WILDWOOD MINE SEDIMENT PLACEMENT AREA
GENERAL PLAN, SECTION, AND DETAIL

Drawing Number: PLATE 5-15




SECTION B-B
STA 12+00, 264° AH




SECTION A-A
STA 10+00, 264° AH

LEGEND:

SEDIMENT PLACEMENT

EXISTING GROUND

SCALE: 1"=30'-0"

30' 0 30'

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: SECTION CHIEF

Sheet 17 of 21

Design by: GARY COOPER
Dwn by: CDC
Ckd by: X
Submission Date: X
Revision Date: X
IFB NO.:

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Date: ****yyyy-mm-dd****
Plot Scale: ****p_scale****
Pen Table: ****p_pen_table****
Color Table: ****colortable****

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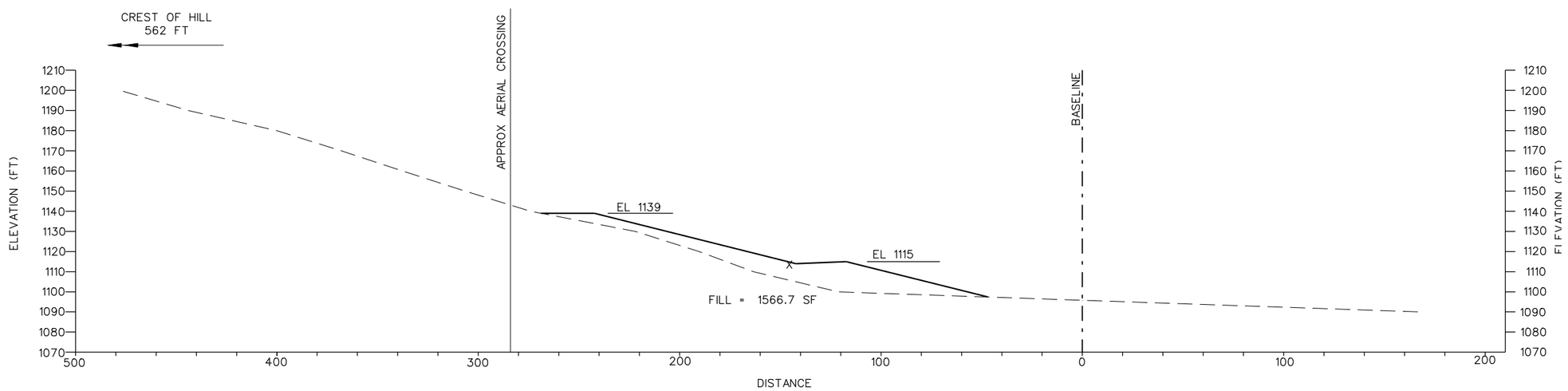
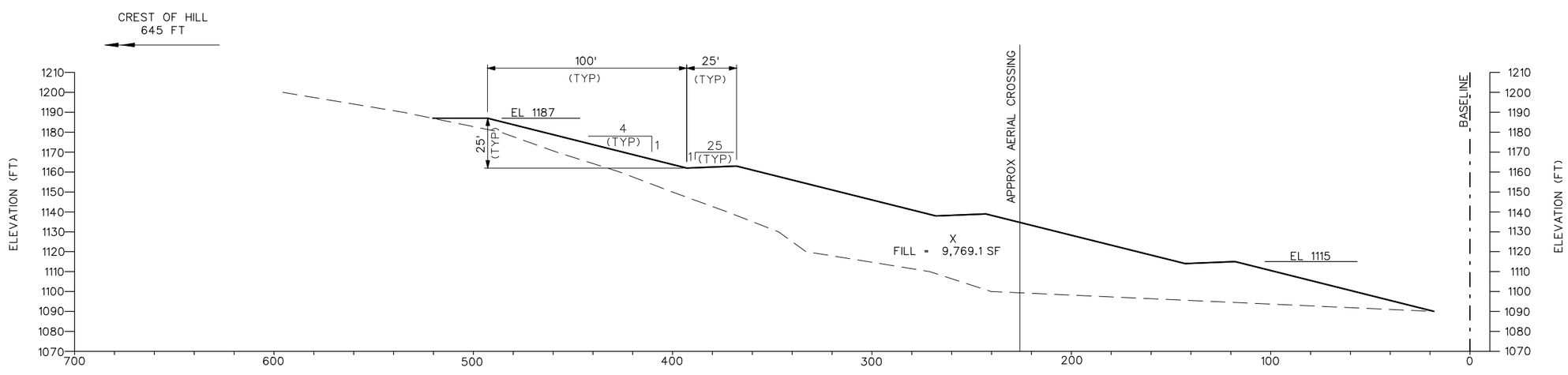
NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
WILDWOOD MINE SEDIMENT PLACEMENT AREA
CROSS SECTIONS A-A AND B-B

Drawing Number:
PLATE 5-17




SECTION D-D
STA 16+00, 264° AH




SECTION C-C
STA 14+00, 264° AH

LEGEND:

SEDIMENT PLACEMENT

EXISTING GROUND

SCALE: 1"=30'-0"

30' 0 30'

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X SECTION CHIEF

Design by: GARY COOPER
Dwn by: CDC
Ckd by: X
Submission Date: X
Revision Date: X
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NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
WILDWOOD MINE SEDIMENT PLACEMENT AREA
CROSS SECTION C-C AND D-D

Drawing Number:
PLATE 5-18

## LEGEND

- GROUND WATER FLOW DIRECTION
- REGIONAL GROUND WATER FLOW DIRECTION
- SLOPE MEASUREMENT
- BACKGROUND SAMPLING POINTS
- PROPOSED MONITORING POINTS
- WELL — SPRING — DWELLING
- DESIGNATED WETLANDS FROM NATIONAL WETLAND INVENTORY MAPS
- MINE I — ROMAN NUMERALS KEY TO MINES
- WATERSHED LINE
- PROPOSED SUBCHAPTER "F" MONITORING POINTS
- PROPOSED MONITORING WELLS
- APPROXIMATE LIMIT OF REFUSE AREA – 33.0 Ac.

## BACKGROUND SAMPLING POINTS

(MP–PROPOSED MONITORING POINTS)
F – SUBCHAPTER "F" POINTS

| POINT | SOURCE | SAMPLING DATE | SURFACE ELEV. | FLOW SWL | FIELD pH |
|---|---|---|---|---|---|
| MP– S–A | STREAM | 10–15–93 | 995 | 3000 | 7.5 |
| D–B | DITCH | 10–15–93 | 1025 | <1 | 6.5 |
| F–MP– SP–C | SPRING | 10–15–93 | 920 | 2 | 4.5 |
| S–D | STREAM | 10–15–93 | 970 | 300 | 8.5 |
| S–E | STREAM | 10–15–93 | 960 | 2100 | 7.0 |
| D–F | DITCH | 10–15–93 | 965 | 3 | 7.5 |
| MP– S–G | STREAM | 10–15–93 | 925 | 2000 | 7.0 |
| W–45 | MONITORING WELL | 10–15–93 | 990 | NA | 9.5 |

NOTE: SURFACE ELEVATIONS SHOWN FOR THE BACKGROUND SAMPLING POINTS WERE INTERPOLATED FROM THE U.S.G.S. MAP OF THE AREA. LOCATIONS WERE PROVIDED BY COMPLIANCE ENVIRONMENTAL SERVICES

## EROSION AND SEDIMENTATION CONTROL FACILITIES

- A — SEDIMENT POND
- CD — COLLECTION DITCH
- STARTING POINT
- DITCH ENERGY DISSIPATOR
- OUTLET ENERGY DISSIPATOR
- APPROXIMATE LIMIT OF WASTE COAL
- TD — TOP DIVERSION DITCH
- DC — DISCHARGE CHANNEL
- PROPOSED INITIAL BLOCKS

| EXISTING LAND USE | POSTMINING LAND USE | SEED MIXTURE |
|---|---|---|
| FORESTLAND | INDUSTRIAL\COMMERCIAL | A |
| INDUSTRIAL\COMMERCIAL | | |

## LEGEND:

--1080-- approximate proposed final contours (original ground interpolated contours)

## NOTES:

The approximate proposed final contours shown hereon were based on the following information:

1) limits of material to be removed according to Compliance Environmental Services (CES);
2) final contours configured by ACV Power Corporation and were interpolated from test drilling data. finished grade may vary slightly in each section, if necessary contours will be revised when waste coal has been removed
3) approximate original ground interpolated contours are shown as approximate final contours and may denote contact between waste coal and red dog. location shown are approximate and were not surveyed. test drilling was performed to grossly estimate quanties. Pa. DER test borings done for temperature monitoring were also used to indicate depth of material deposited.
4) original ground contours interpolated from test drilling (located by inspection) and considered accurate to the countour interval or less
5) final grade intended to be approximately original ground with no terraces or benches. this will be accomplished by removal of waste coal
6) This plan was created from Coal Refuse Processing Application for ACV Power Corp (1994), Exhibit #15 Mine Permit #461M77.

## KEY TO UTILITIES

- W — WILLIAMS TELECOMMUNICATIONS (UNDERGROUND LINES)
- M — MCI TELECOMMUNICATIONS (UNDERGROUND LINES)
- DUQUESNE LIGHT
- BELL OF PA.
- POWER AND TELEPHONE
- C — COMCAST CABLEVISION
- G — THE PEOPLES NATURAL GAS COMPANY
- S — SANITARY SEWER LINE
- H — WATER LINE

BUTLER CONSOLIDATED COAL COMPANY – WILDWOOD MINE

PROPOSED REPROCESSING PERMIT AREA – 42.5 ACRES

# EXHIBIT #15, MINE PERMIT #461M77

SCALE: 1" = 200'-0"

SCALE: 1"=200'-0"
200' 0 200'

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X SECTION CHIEF
Design by: GARY COOPER
Dwn by: CDC
Chkd by: X
Submission Date: X
Revision Date: X
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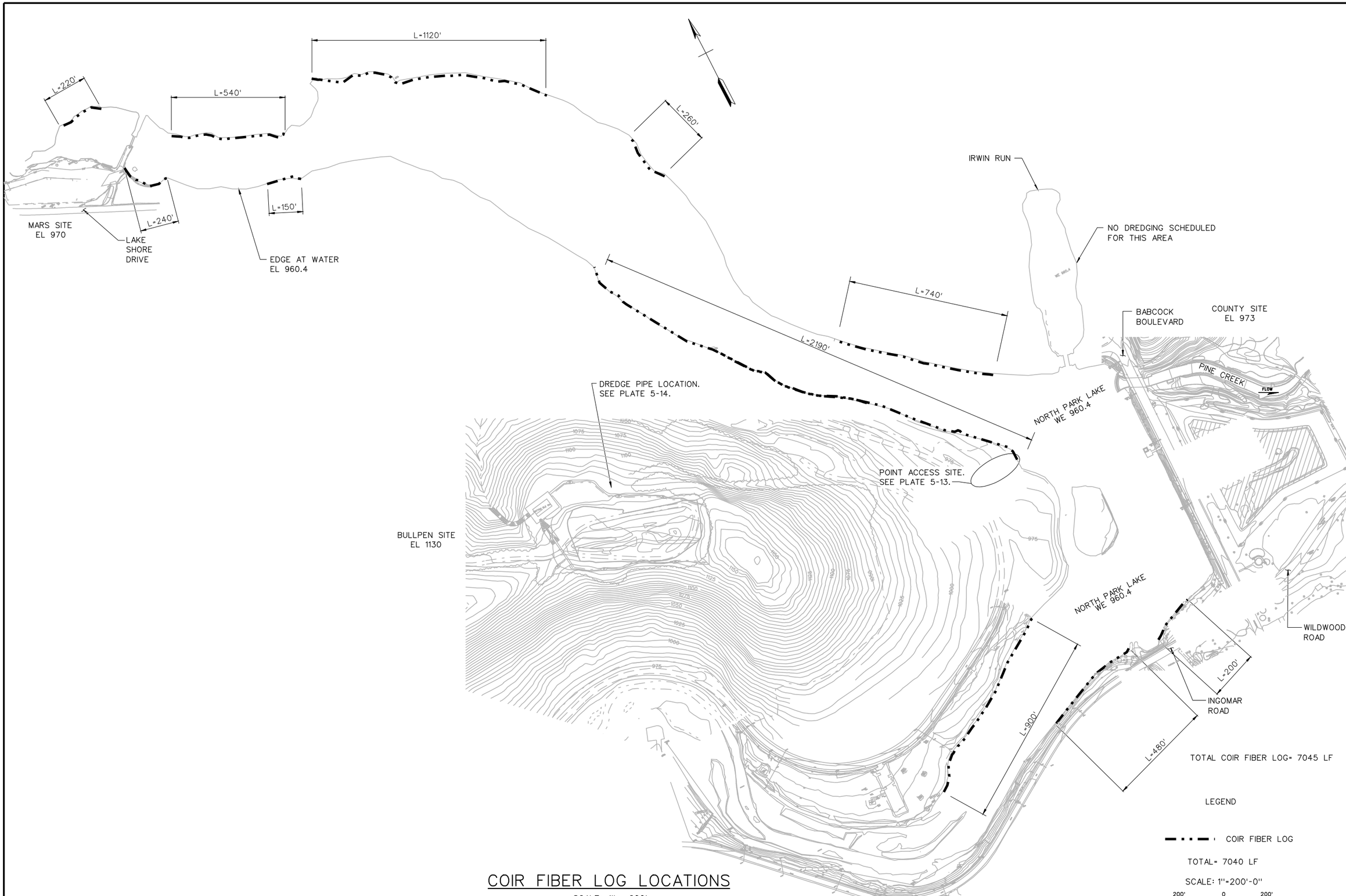
NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
WILDWOOD MINE SEDIMENT PLACEMENT AREA
EXHIBIT #15, MINE PERMIT #461M77

Drawing Number: PLATE 5-19




COIR FIBER LOG LOCATIONS

SCALE: 1" = 200'

US ARMY CORPS
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PITTSBURGH DISTRICT

Submitted by: X
SECTION CHIEF

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Plot Scale: ***p_scale***
Pen Table: ***p_pen_table***
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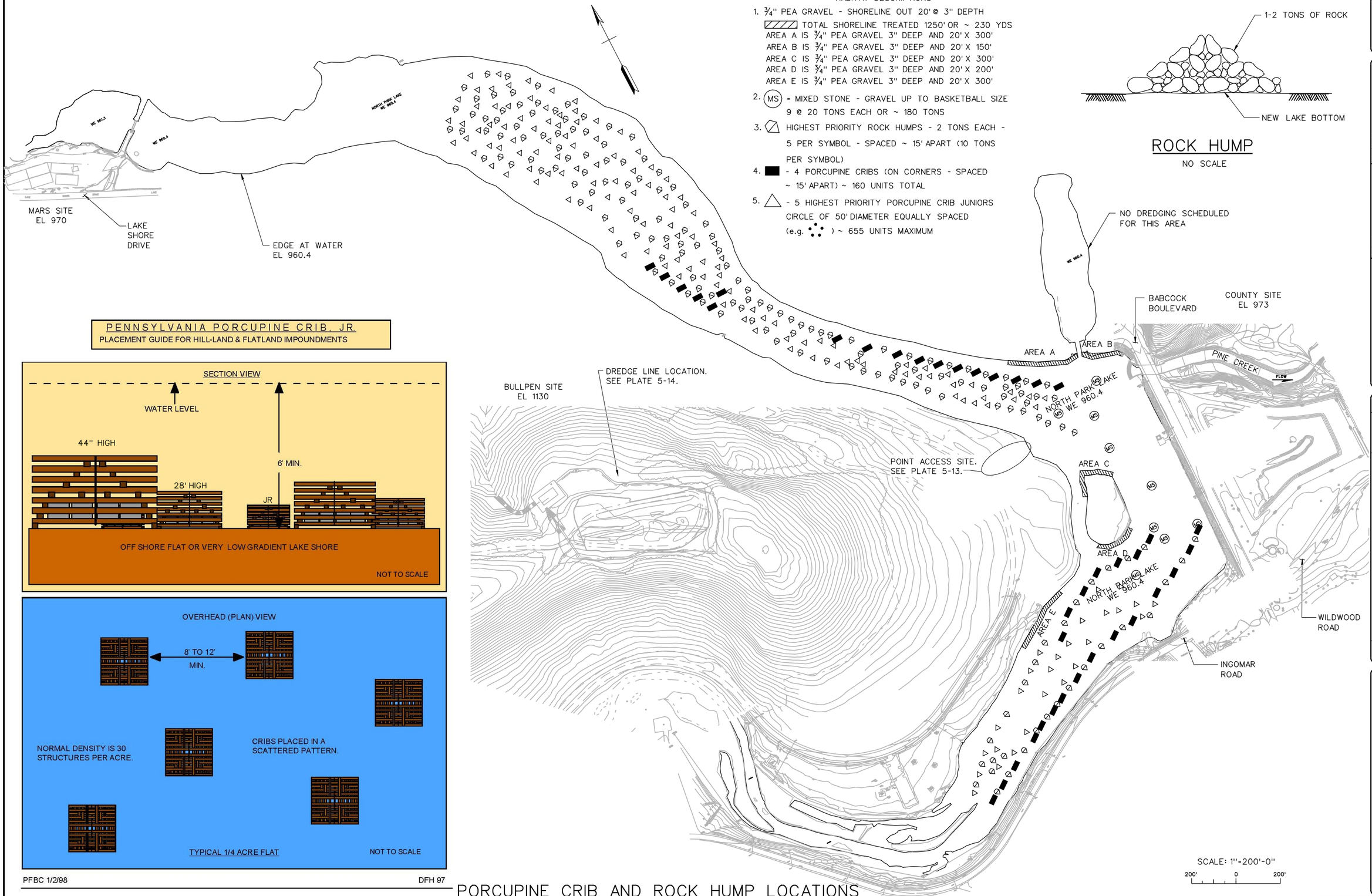
NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
NORTH PARK LAKE DREDGING AREA
COIR FIBER LOG LOCATIONS

Drawing Number:
PLATE 5-20

HABITAT DESCRIPTIONS

1. ¾" PEA GRAVEL - SHORELINE OUT 20' @ 3" DEPTH
   TOTAL SHORELINE TREATED 1250' OR ~ 230 YDS
   AREA A IS ¾" PEA GRAVEL 3" DEEP AND 20' X 300'
   AREA B IS ¾" PEA GRAVEL 3" DEEP AND 20' X 150'
   AREA C IS ¾" PEA GRAVEL 3" DEEP AND 20' X 300'
   AREA D IS ¾" PEA GRAVEL 3" DEEP AND 20' X 200'
   AREA E IS ¾" PEA GRAVEL 3" DEEP AND 20' X 300'
2. (MS) = MIXED STONE - GRAVEL UP TO BASKETBALL SIZE 9 @ 20 TONS EACH OR ~ 180 TONS
3. HIGHEST PRIORITY ROCK HUMPS - 2 TONS EACH - 5 PER SYMBOL - SPACED ~ 15' APART (10 TONS PER SYMBOL)
4. - 4 PORCUPINE CRIBS (ON CORNERS - SPACED ~ 15' APART) ~ 160 UNITS TOTAL
5. - 5 HIGHEST PRIORITY PORCUPINE CRIB JUNIORS CIRCLE OF 50' DIAMETER EQUALLY SPACED (e.g. ) ~ 655 UNITS MAXIMUM







ROCK HUMP

NO SCALE

PENNSYLVANIA PORCUPINE CRIB, JR.

PLACEMENT GUIDE FOR HILL-LAND & FLATLAND IMPOUNDMENTS







PFBC 1/2/98 DFH 97

PORCUPINE CRIB AND ROCK HUMP LOCATIONS

SCALE: 1" = 200'

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

Submitted by: X SECTION CHIEF

Sheet 21 of 21

Design by: G. COOPER, P.E.
Dwn by: CDC
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Submission Date: X
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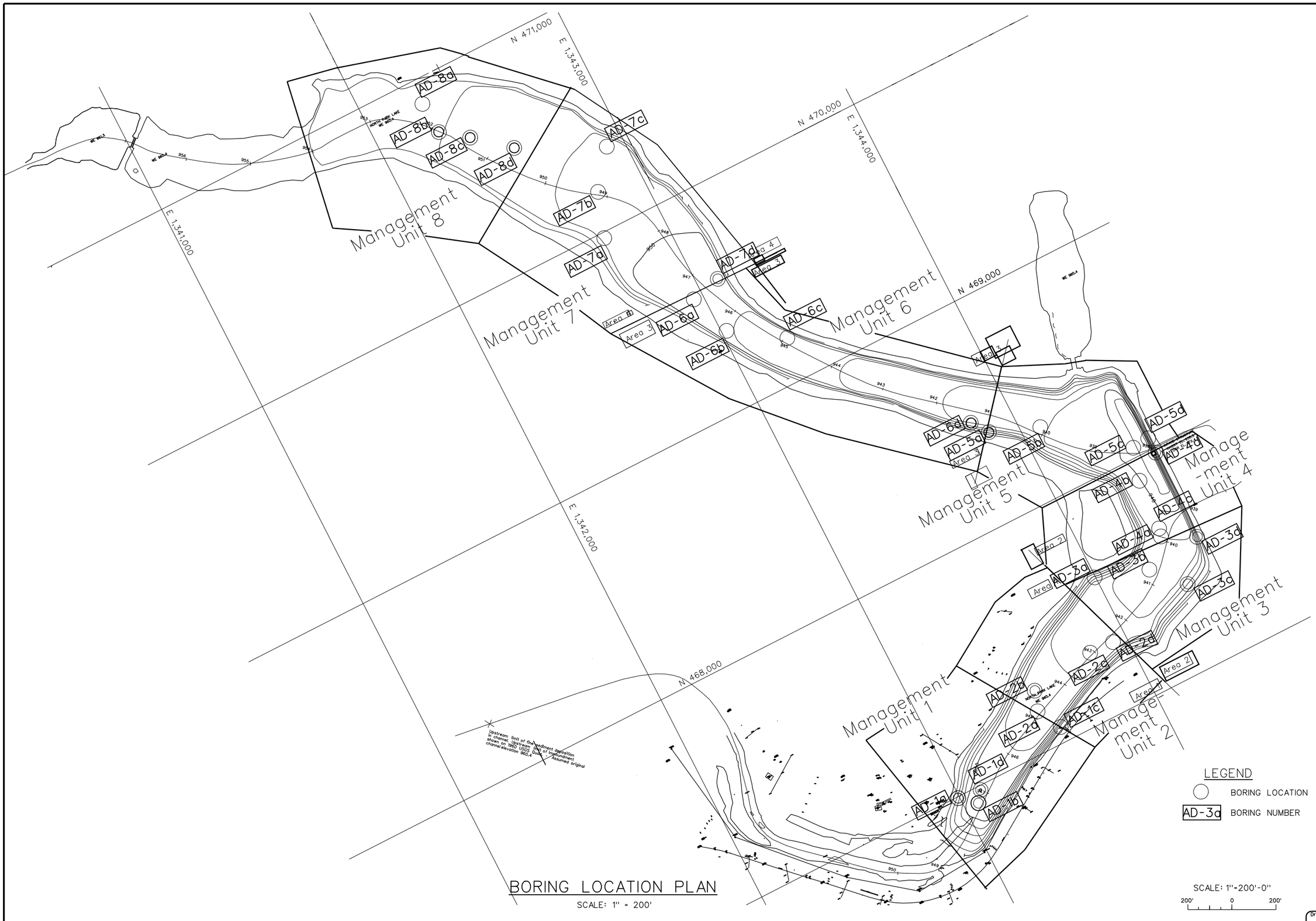
NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
NORTH PARK LAKE DREDGING AREA
PORCUPINE CRIB AND ROCK HUMP LOCATIONS

Drawing Number: PLATE 5-21




BORING LOCATION PLAN

SCALE: 1" = 200'

US ARMY CORPS OF ENGINEERS
PITTSBURGH DISTRICT

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Submission Date: X
Revision Date: X
Submitted by: X SECTION CHIEF
IFB NO.:
Sheet 1 of 22

User: leroy.p.bosetti
Date: 07-AUG-2006 09:21
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NORTH PARK LAKE
ALLEGHENY COUNTY, PENNSYLVANIA
SECTION 206 ECOSYSTEM RESTORATION
RECOMMENDED PLAN
NORTH PARK LAKE DREDGING AREA
BORING LOCATION PLAN

Drawing Number: PLATE 5-22