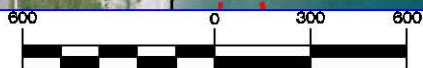


APPENDIX D

DESIGN ALTERNATIVES

SUB-APPENDIX D1

SOUTH COUNTY BEACHES NO IMPACT ALTERNATIVE


Legend

- Proposed Up/land Limits of Fill
- Proposed Seaward Edge of the Top of Dune
- Equilibrated Toe of Fill
- - - Existing Mean High Water Line (MHWL)
- Proposed Mean High Water Line (MHWL)
- Limits of Hardbottom

NOTES:
SCALE IN FEET

1. Aerial photographs obtained on August 01, 2008 and provided by Aerial Cartographics of America, Inc.
2. Limits of Hardbottom determined by Continental Shelf Associates International, Inc.
3. Equilibrated Toe of Fill is equivalent to seaward limits of fill where fill is proposed to be placed landward of existing Mean High Water Line (MHWL).


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VERO BEACH • SARASOTA • MELBOURNE • AUSTIN

Plan View - No Impact Fill Area
**Beach & Dune Restoration Project
St. Lucie County, Florida**

 ENGR
MPW

LAST REVISION

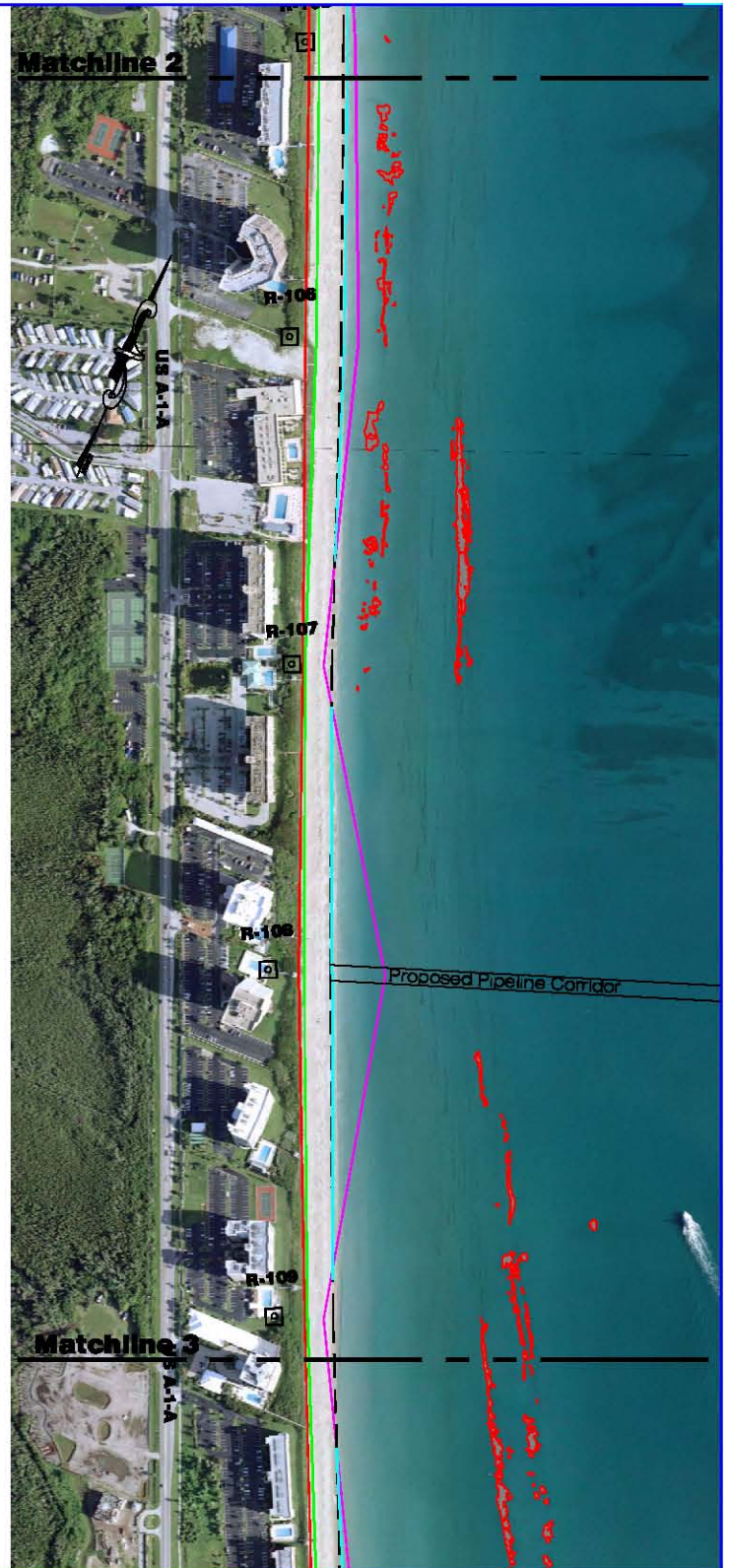
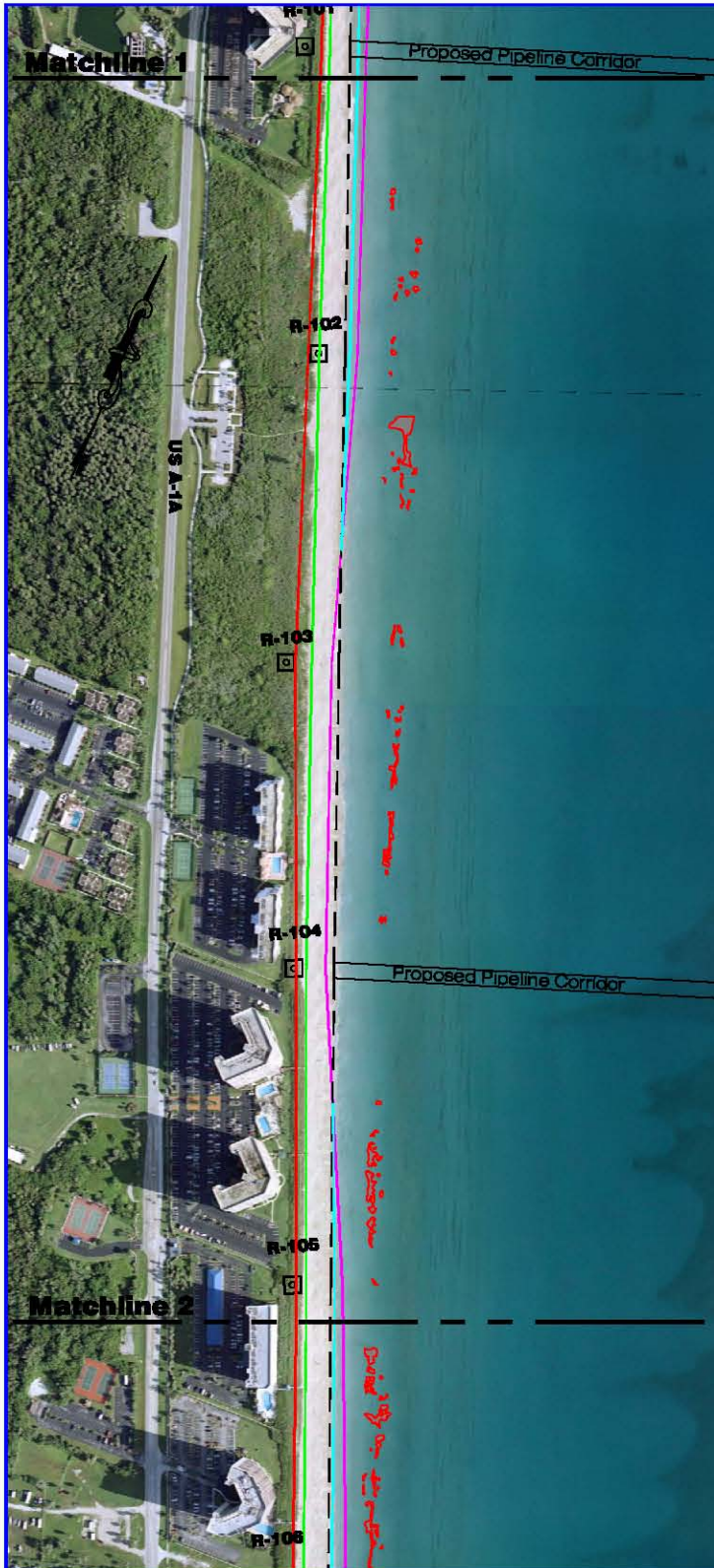
 DRAWN
AQN

DATE

01/07/09

 SHEET **1**
OF 13 SHEETS

 JOB NO.
24360.06

**NOTES:**

1. Aerial photographs obtained on August 01, 2008 and provided by Aerial Cartographics of America, Inc.
2. Limits of Hardbottom determined by Continental Shelf Associates International, Inc.
3. Equilibrated Toe of Fill is equivalent to seaward limits of fill where fill is proposed to be placed landward of existing Mean High Water Line (MHWL).

SCALE IN FEET

Legend

- Proposed Up/and Limits of Fill
- Proposed Seaward Edge of the Top of Dune
- Equilibrated Toe of Fill
- - - Existing Mean High Water Line (MHWL)
- Proposed Mean High Water Line (MHWL)
- Limits of Hardbottom

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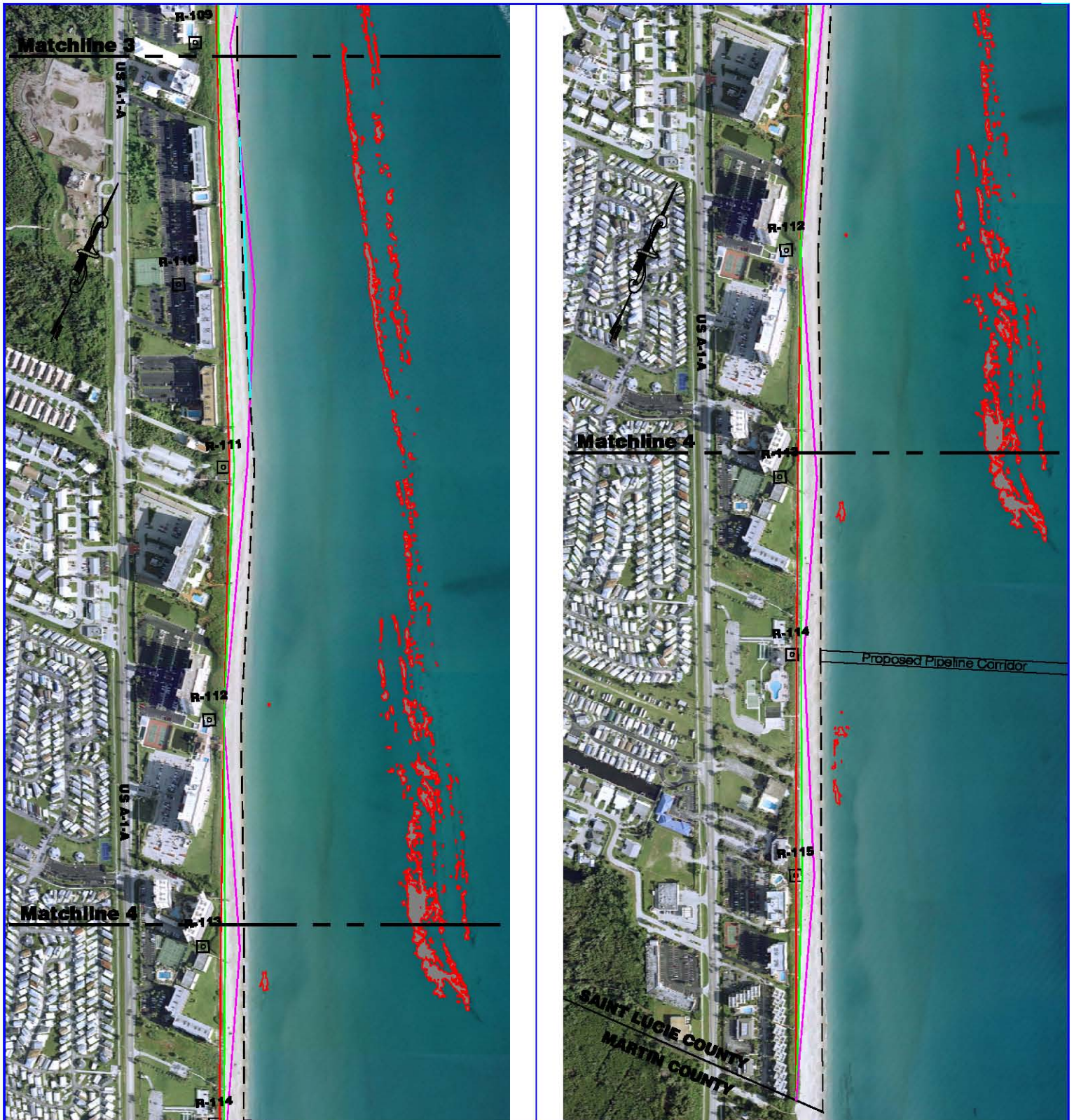
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2

OF 13 SHEETS

JOB NO.

24360.06

**NOTES:**

1. Aerial photographs obtained on August 01, 2008 and provided by Aerial Cartographics of America, Inc.
2. Limits of Hardbottom determined by Continental Shelf Associates International, Inc.
3. Equilibrated Toe of Fill is equivalent to seaward limits of fill where fill is proposed to be placed landward of existing Mean High Water Line (MHWL).

SCALE IN FEET

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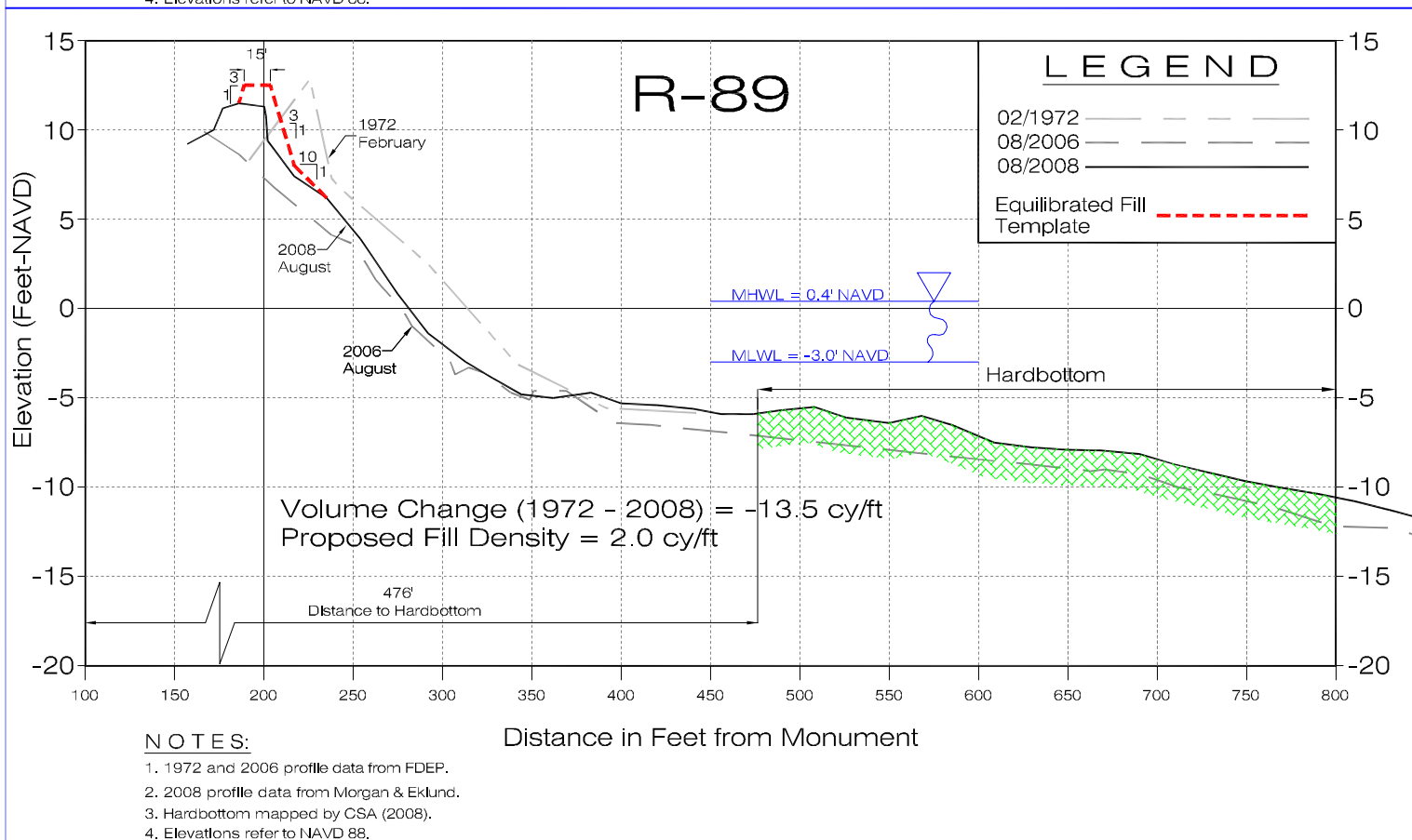
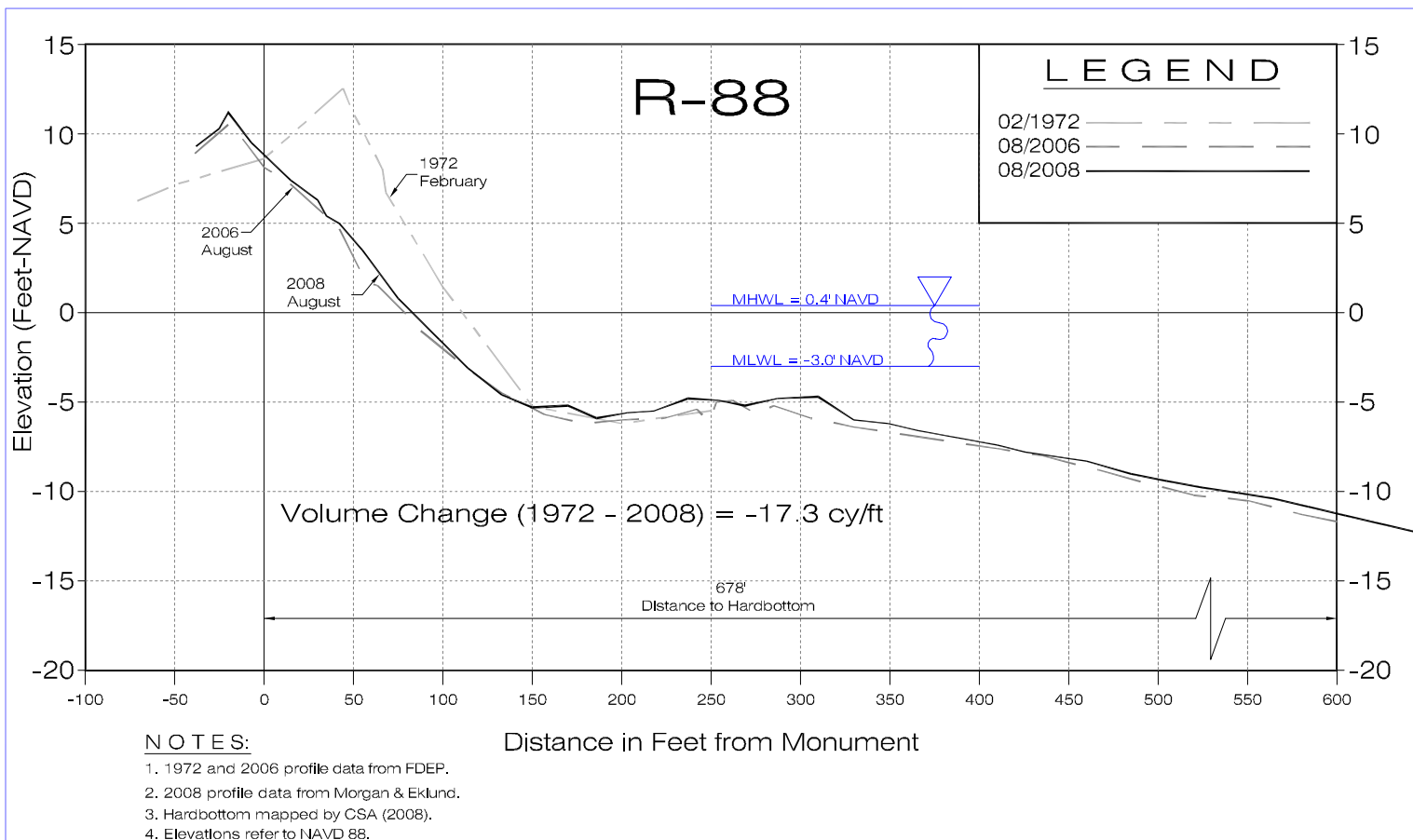
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SHEET 3
OF 13 SHEETS

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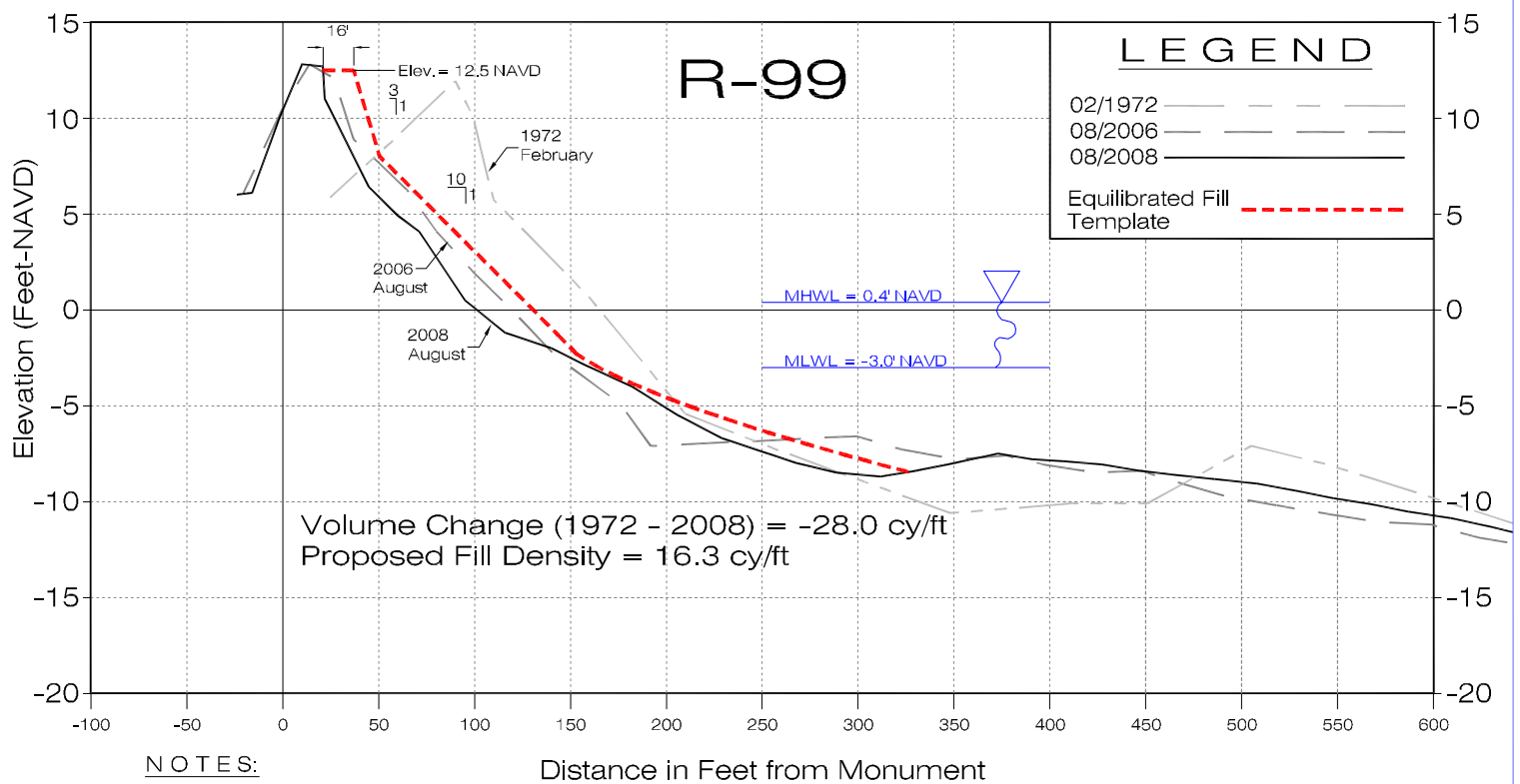
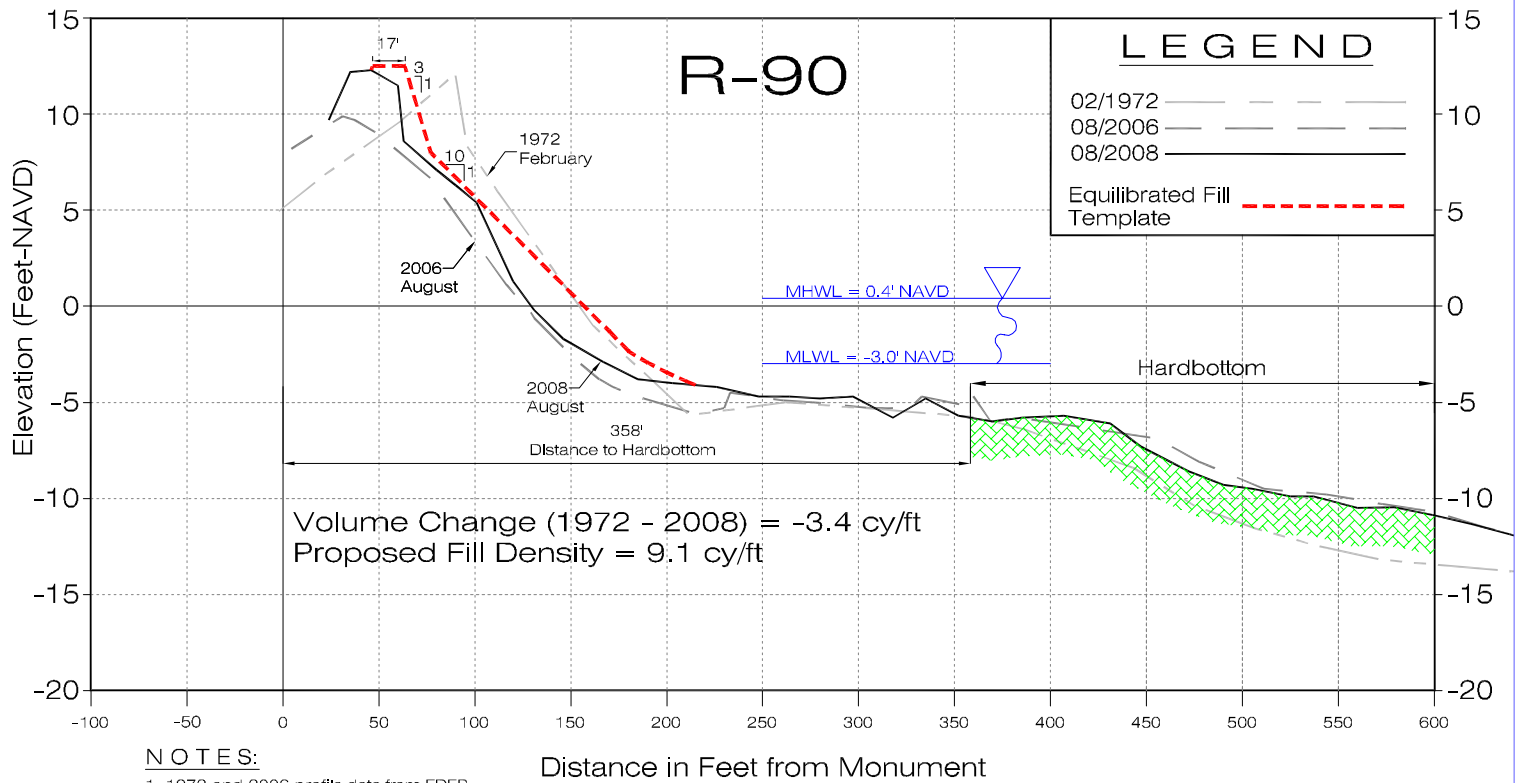
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OF 13 SHEETS

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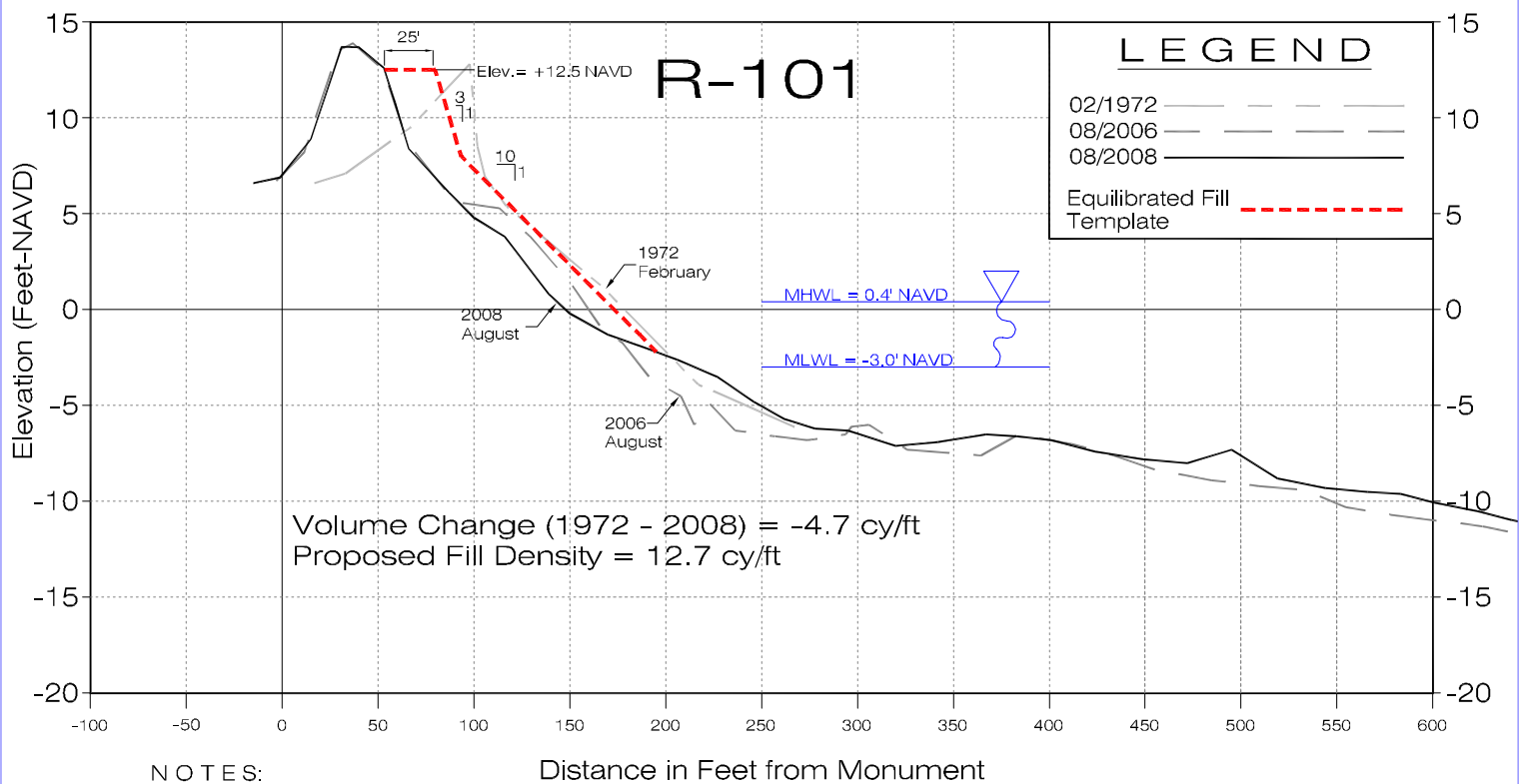
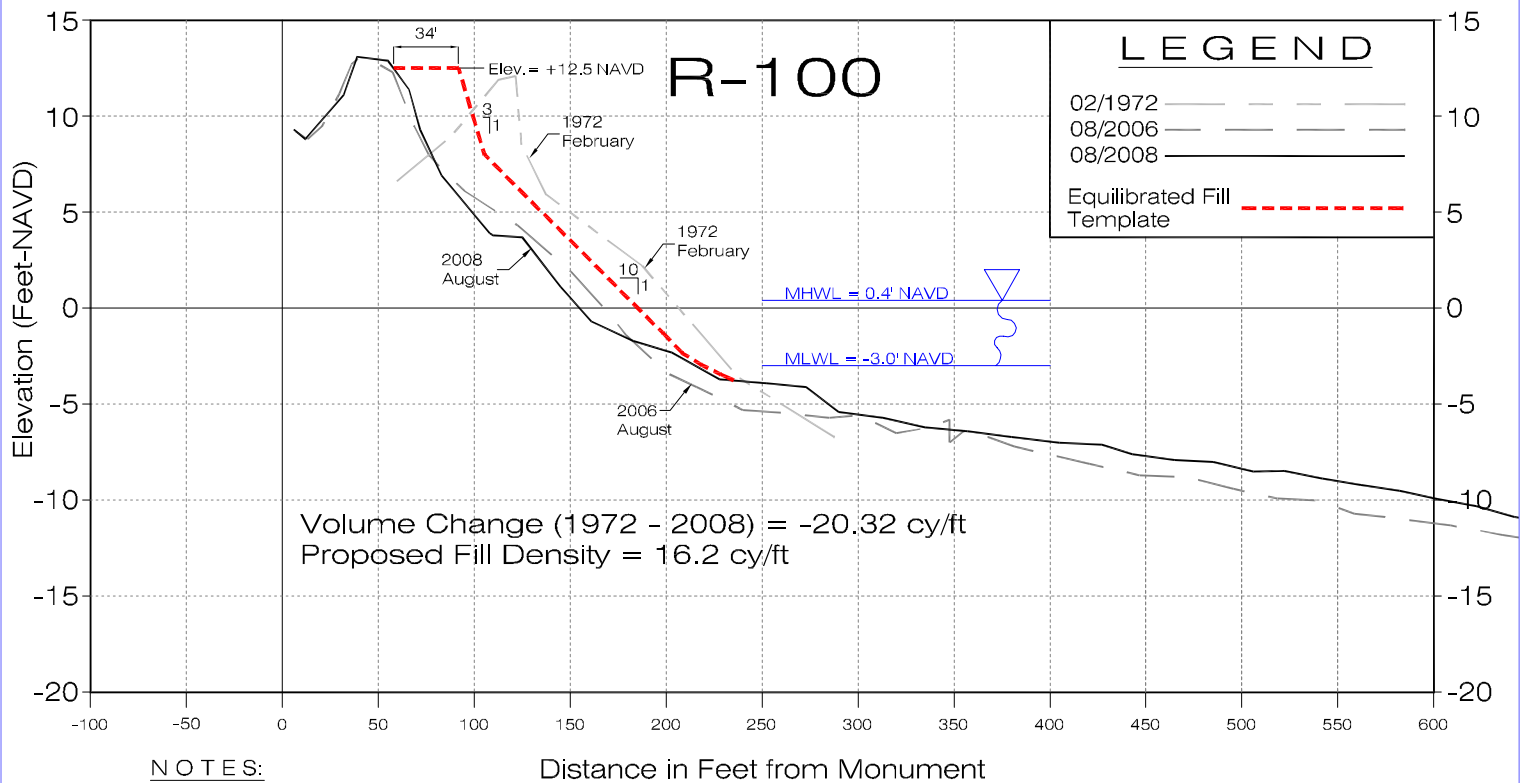
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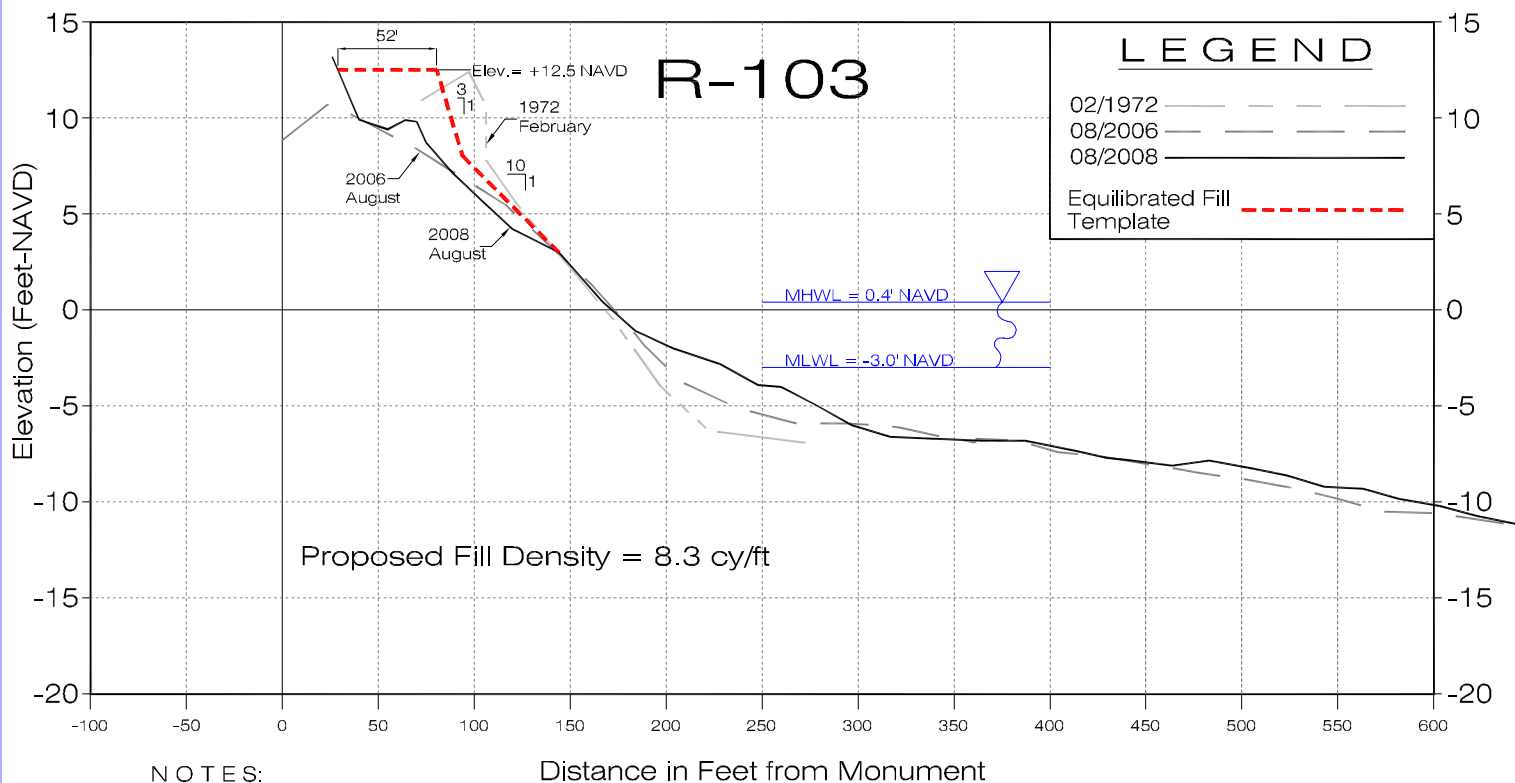
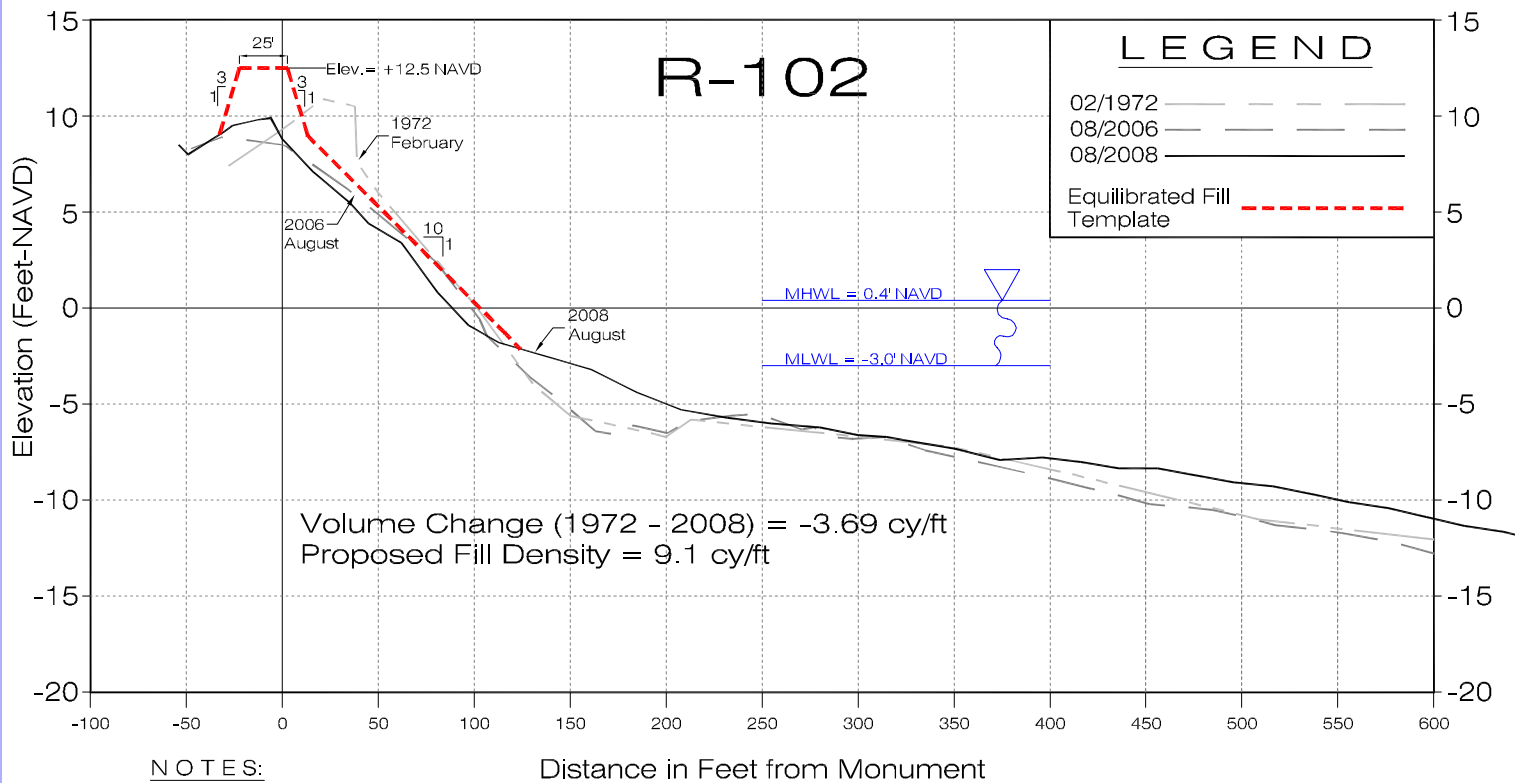
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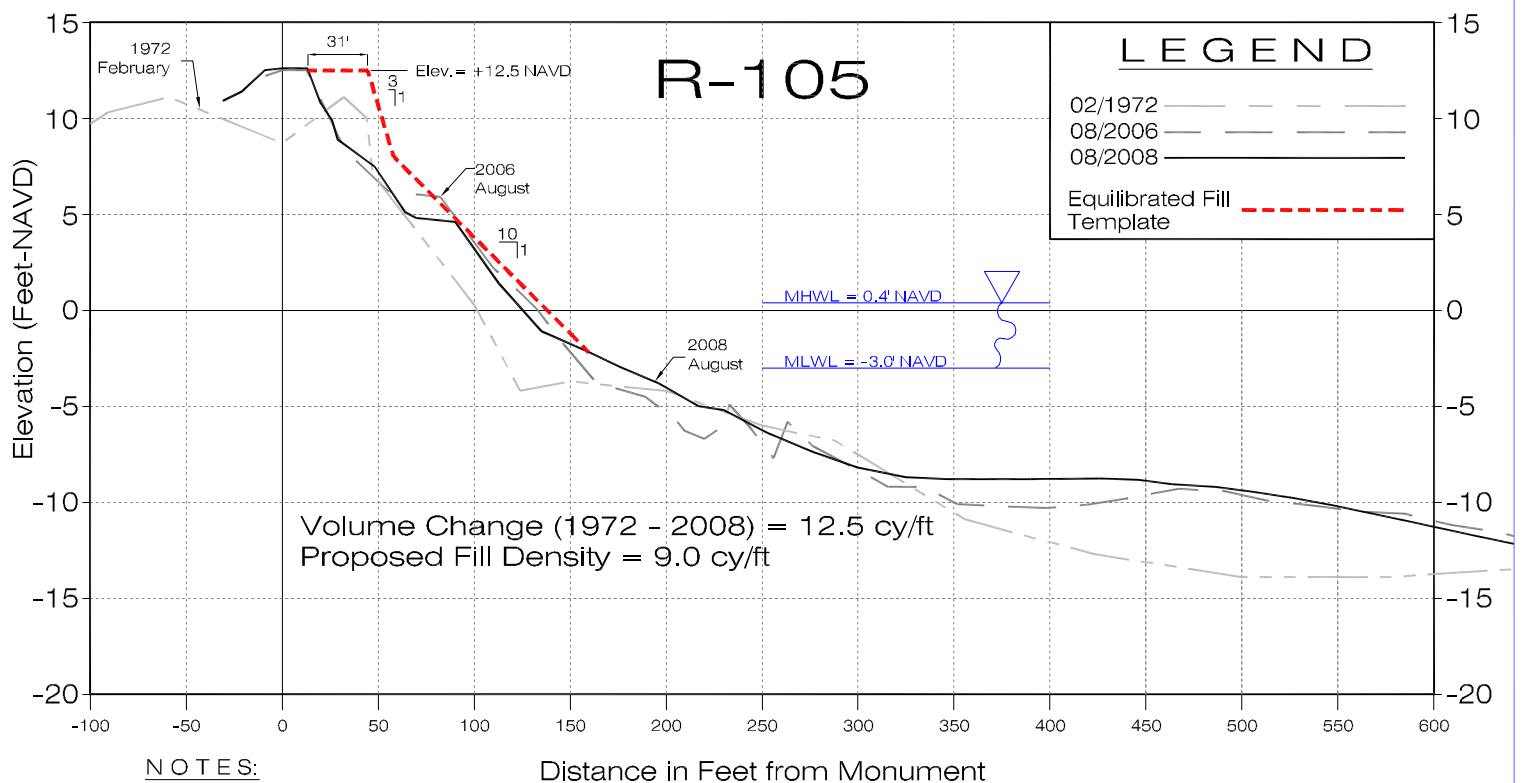
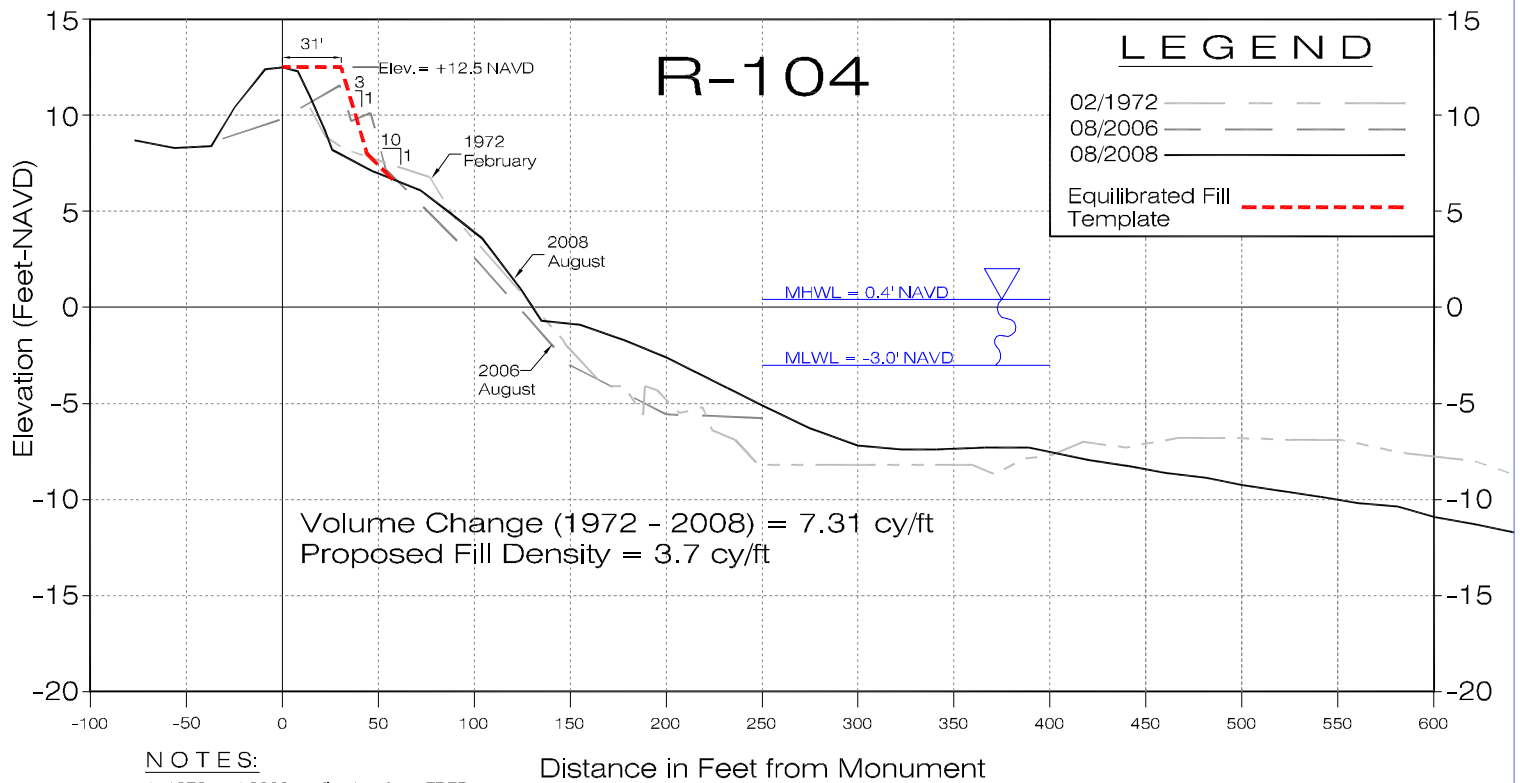
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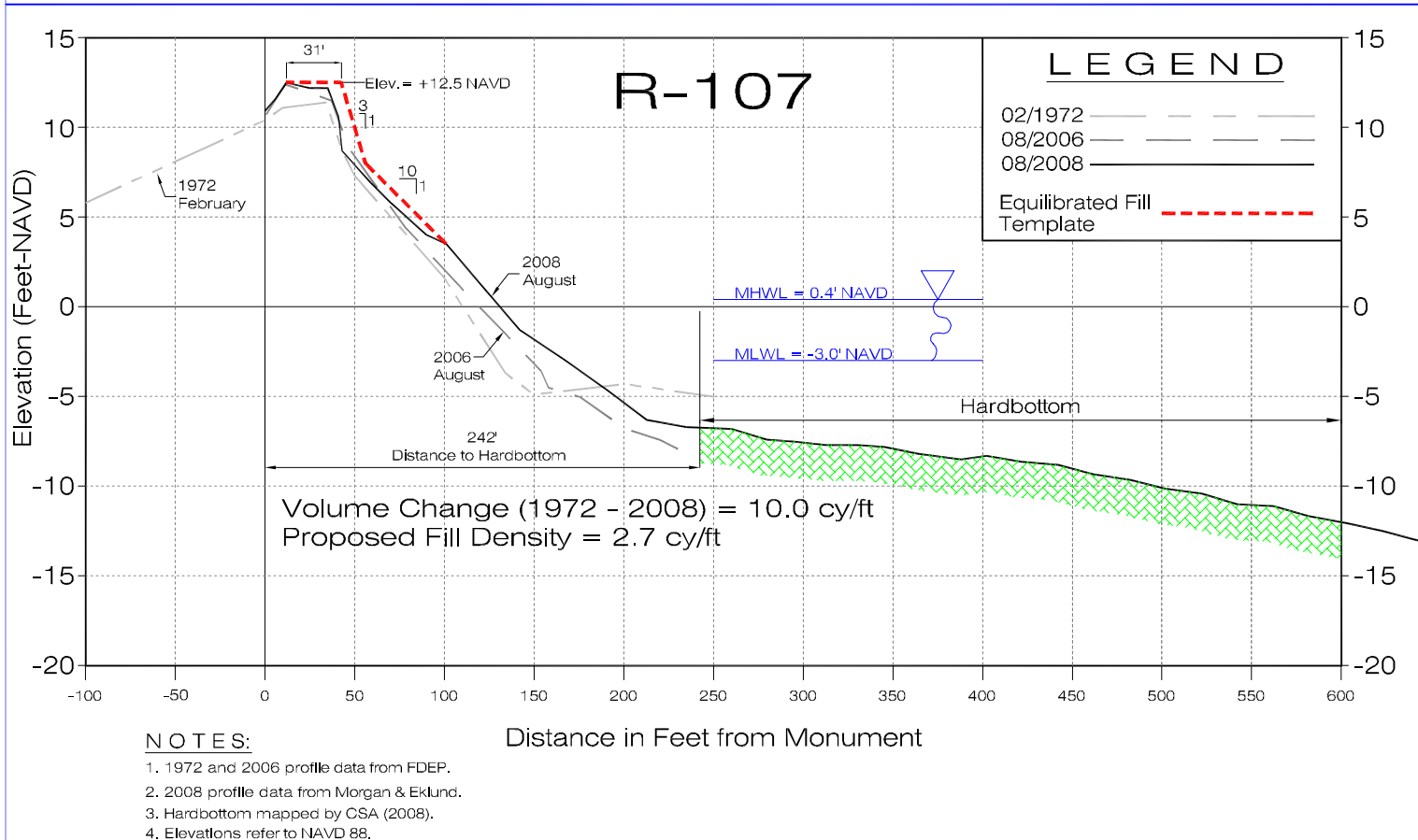
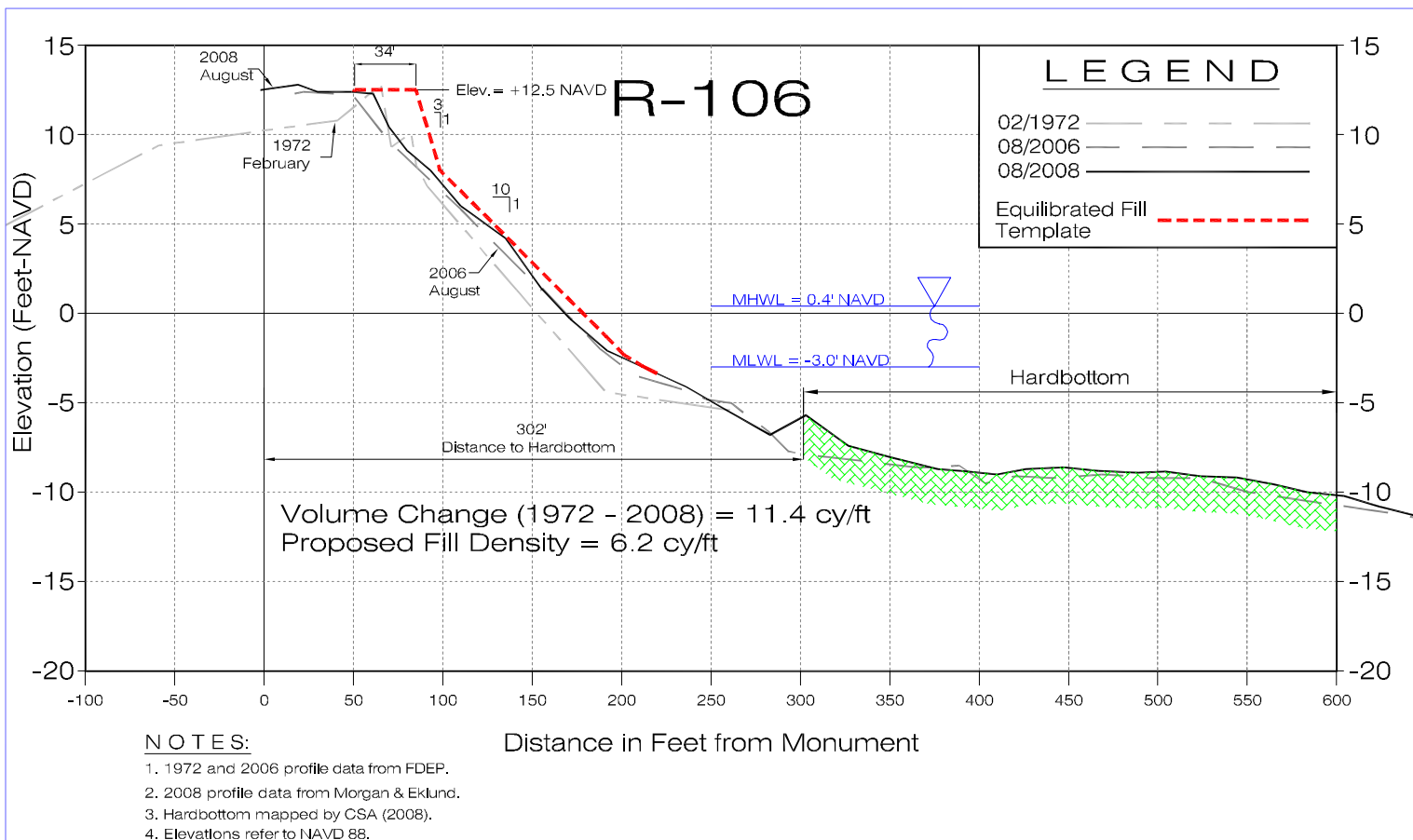
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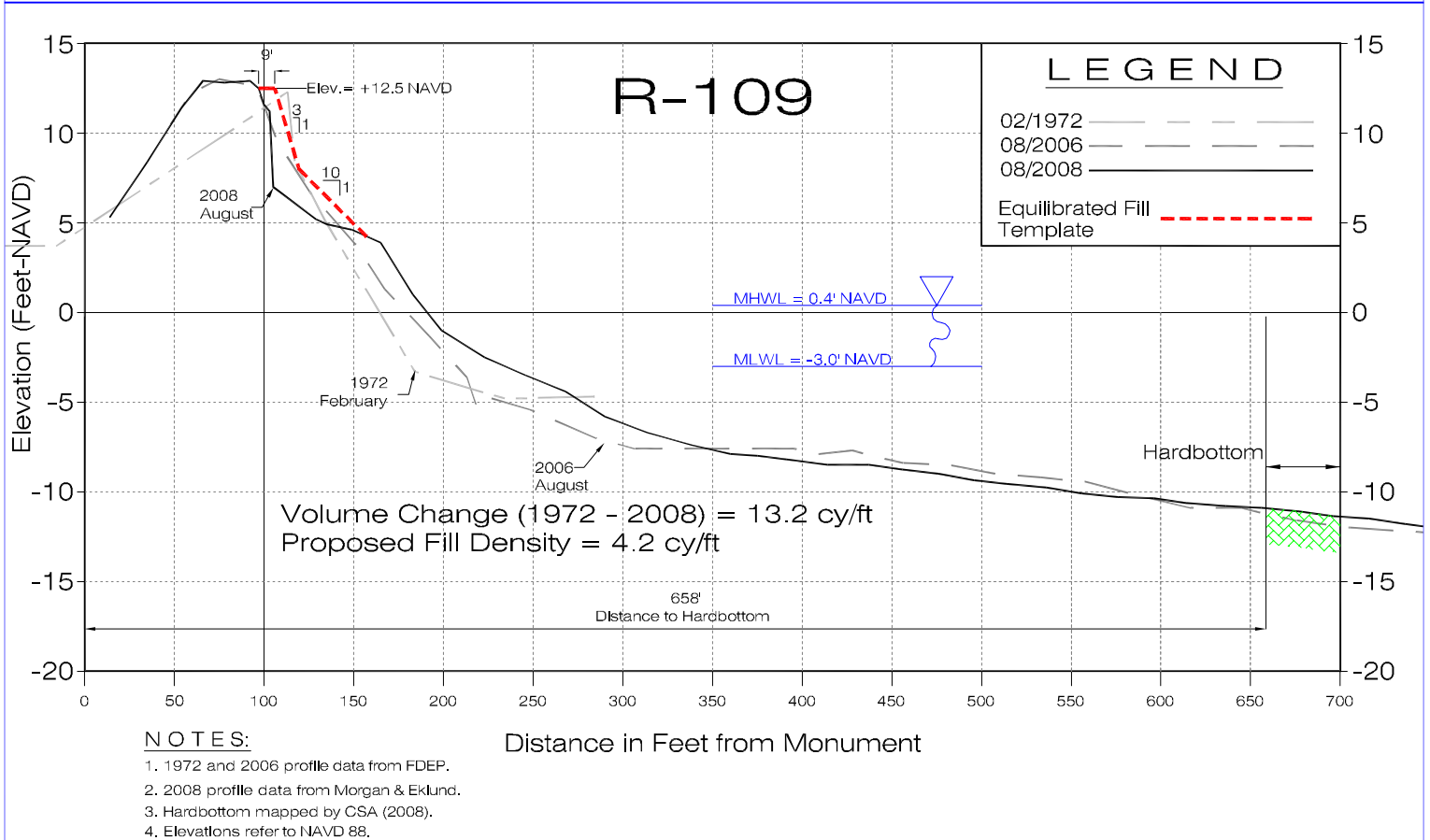
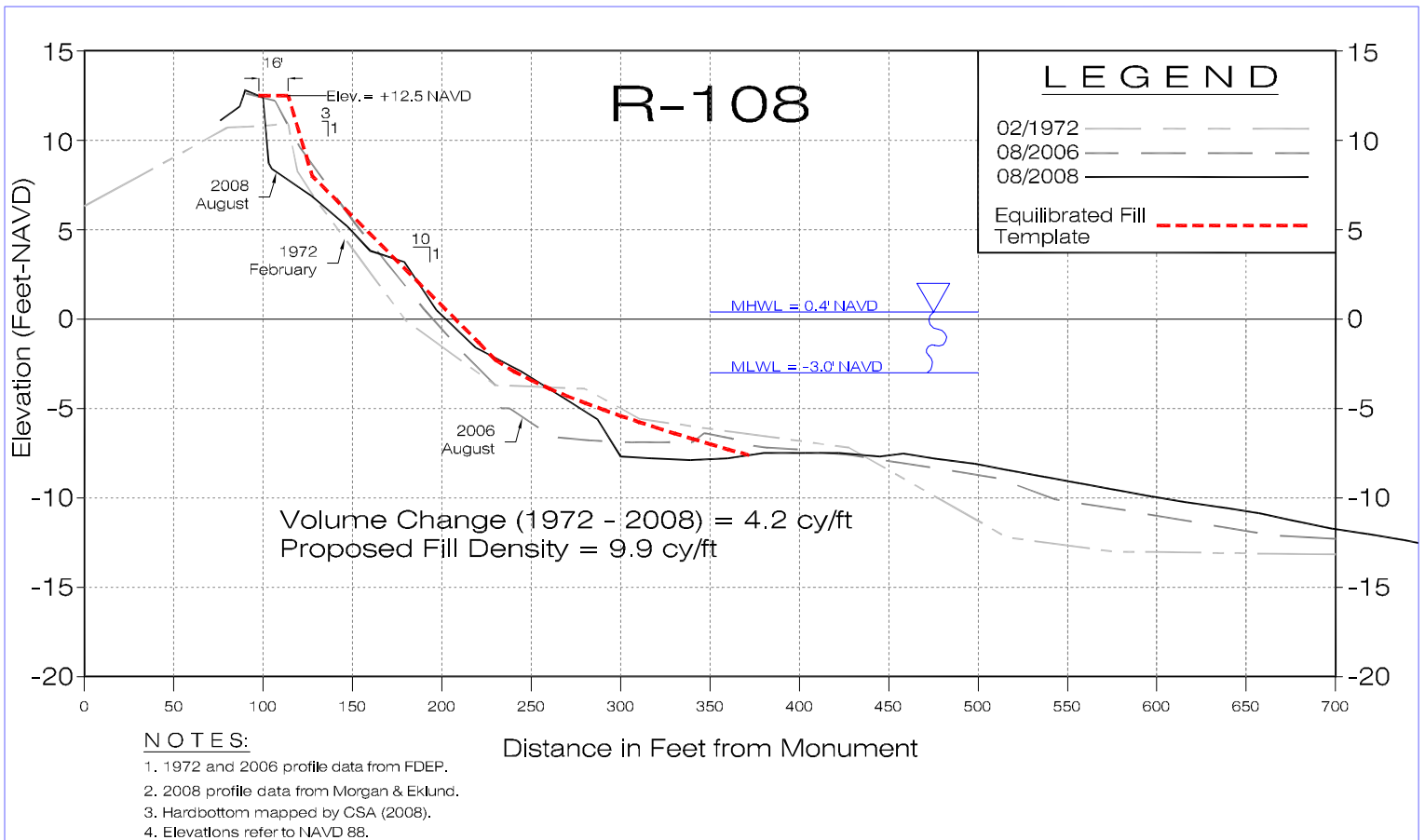
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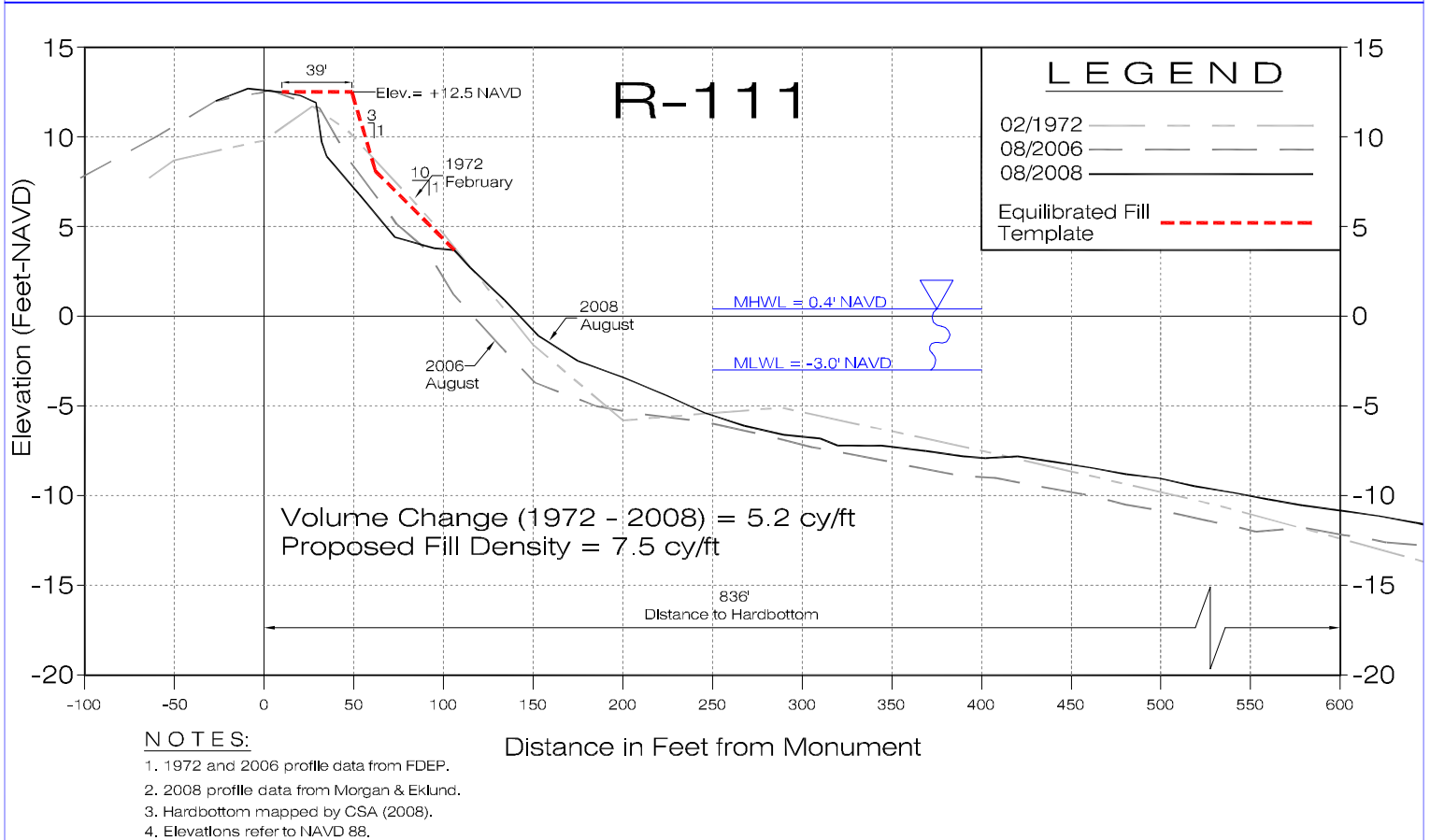
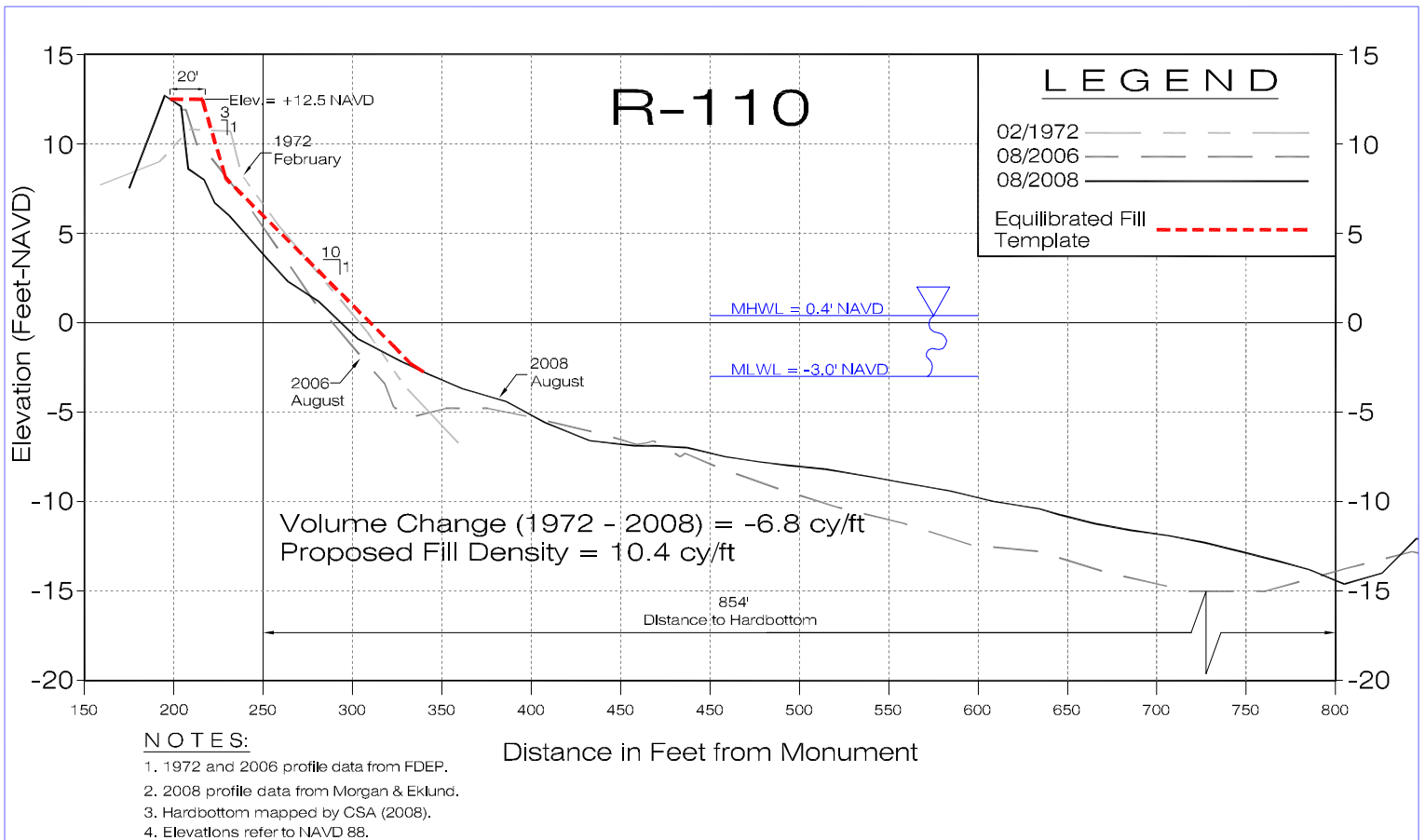
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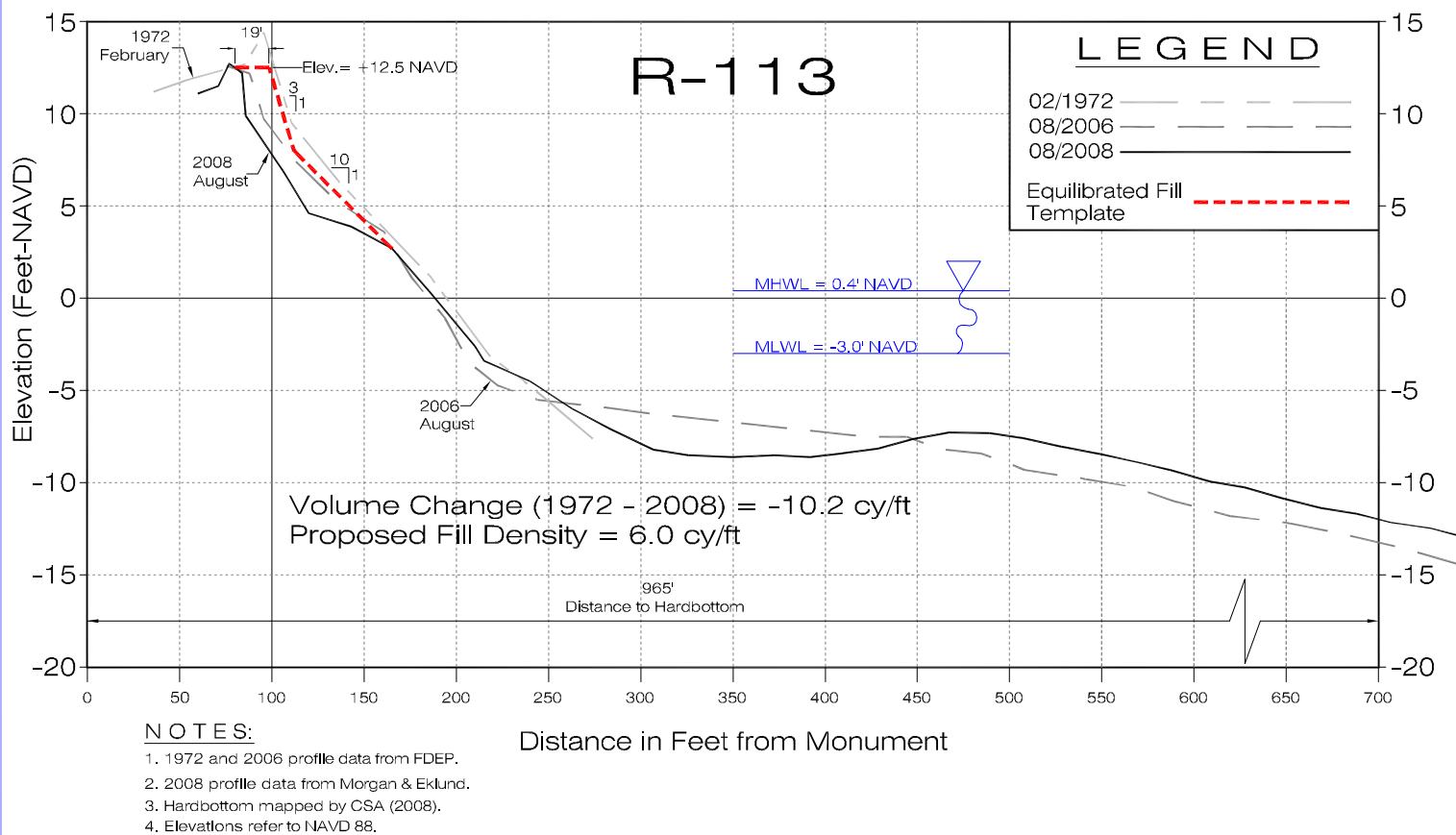
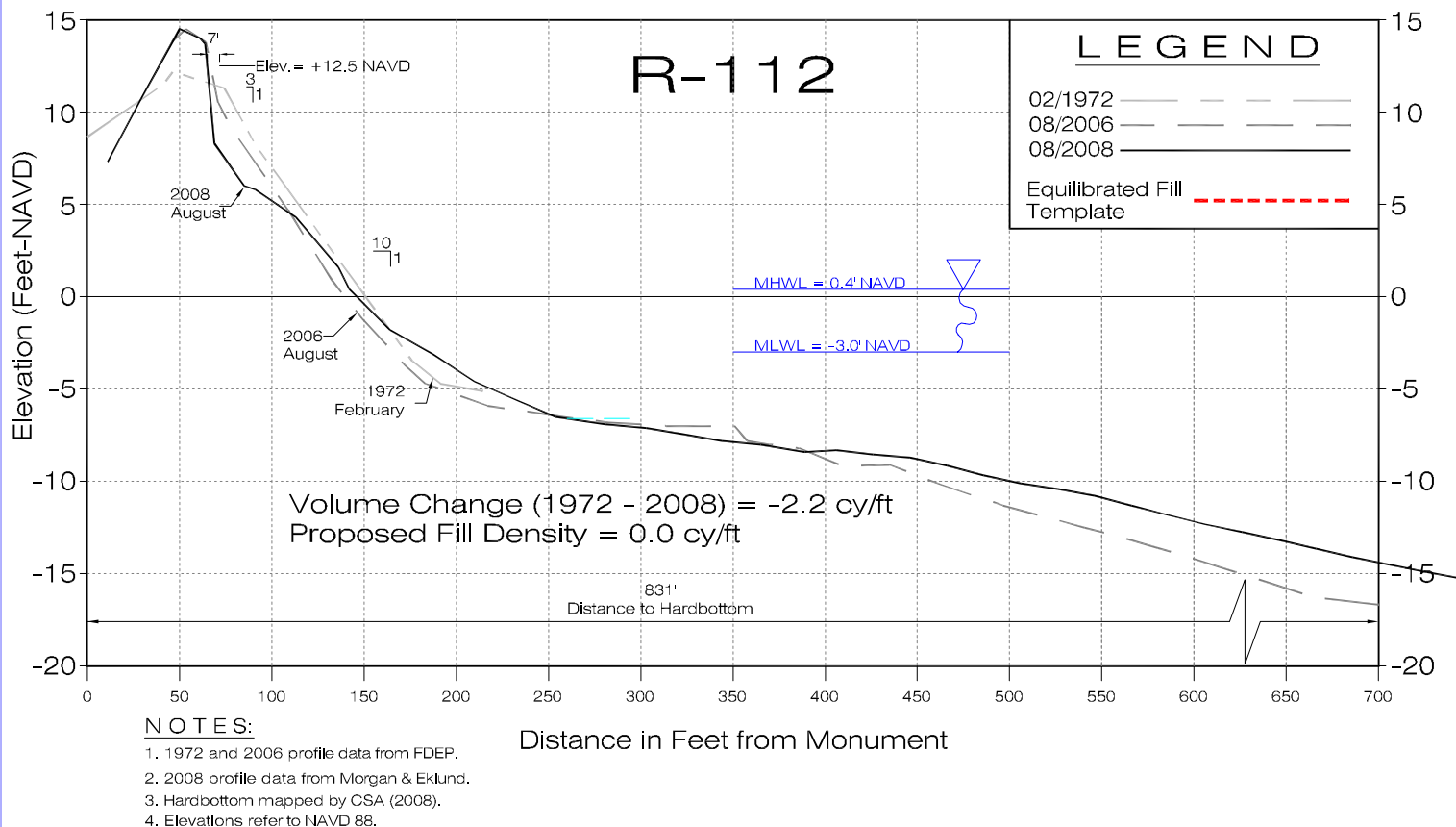
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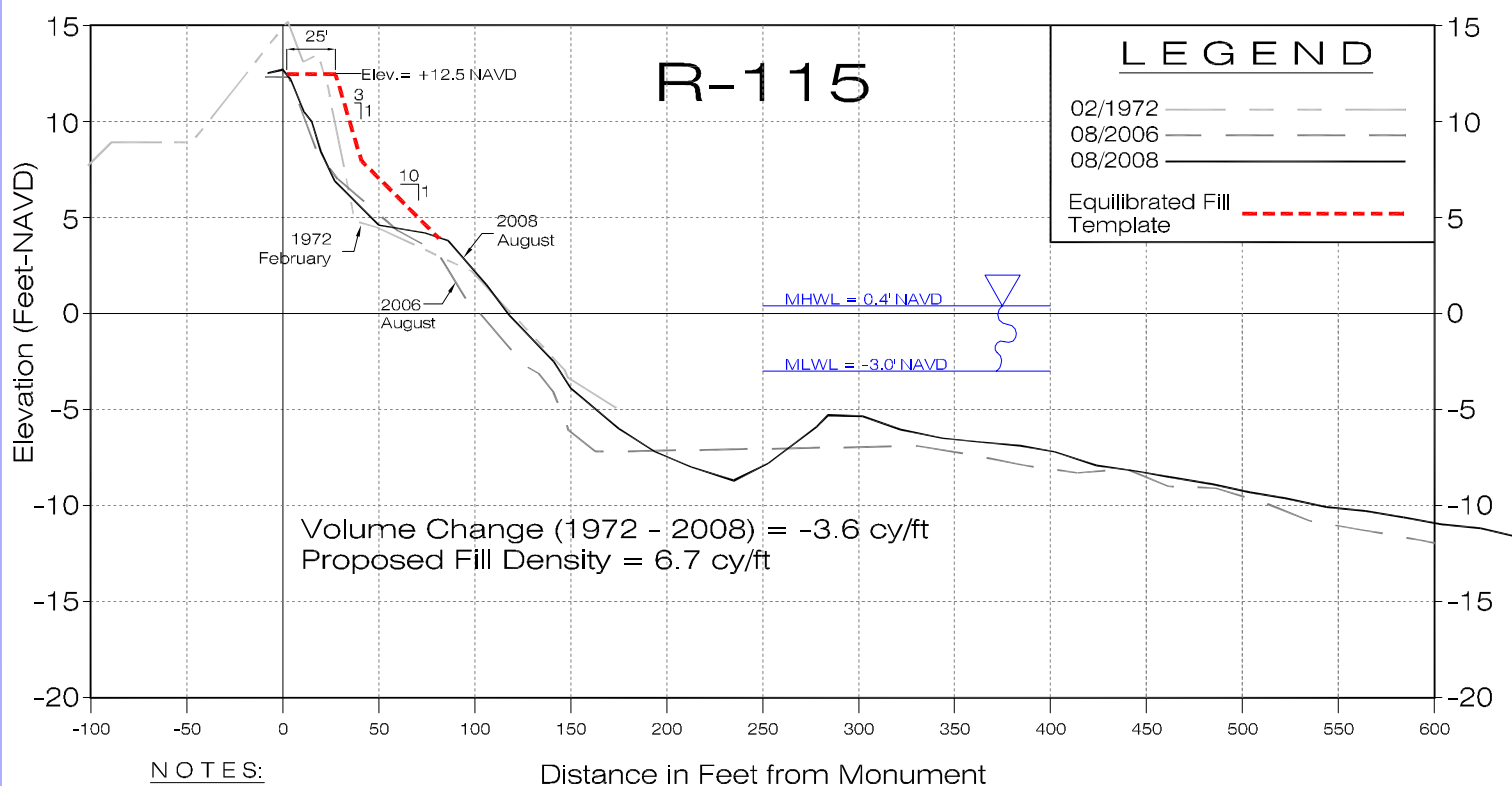
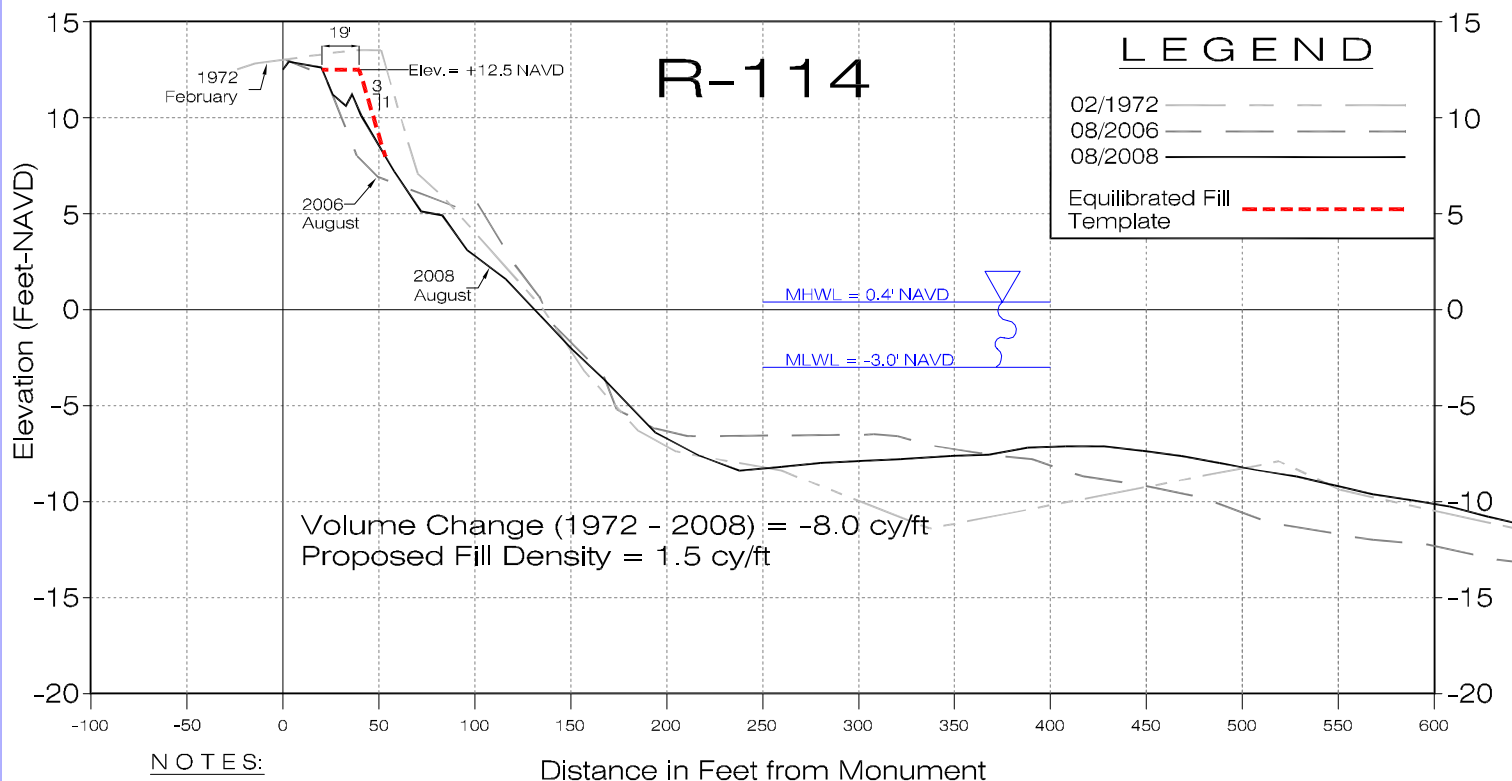
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SHEET

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JOB NO.

24360.06

SUB-APPENDIX D2

SOUTH COUNTY BEACHES 1972 DESIGN

**NOTES:**

1. Aerial photographs obtained on August 01, 2008 and provided by Aerial Cartographics of America, Inc.
2. Limits of Hardbottom determined by Continental Shelf Associates International, Inc.
3. Equilibrated Toe of Fill is equivalent to seaward limits of fill where fill is proposed to be placed landward of existing Mean High Water Line (MHWL).

SCALE IN FEET

Legend

- Proposed Upland Limits of Fill
- Proposed Seaward Edge of the Top of Dune
- Equilibrated Toe of Fill
- - - Existing Mean High Water Line (MHWL)
- Proposed Mean High Water Line (MHWL)
- Limits of Hardbottom

**COASTAL TECH**

Certificate of Authorization Number: 00004195

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Plan View - 1972 Fill Area

Beach & Dune Restoration Project
St. Lucie County, Florida

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DATE

01/07/09

SHEET 1

OF 13 SHEETS

JOB NO.

24360.06

**NOTES:**

1. Aerial photographs obtained on August 01, 2008 and provided by Aerial Cartographics of America, Inc.
2. Limits of Hardbottom determined by Continental Shelf Associates International, Inc.
3. Equilibrated Toe of Fill is equivalent to seaward limits of fill where fill is proposed to be placed landward of existing Mean High Water Line (MHWL).

SCALE IN FEET

Legend

- Proposed Upland Limits of Fill
- Proposed Seaward Edge of the Top of Dune
- Equilibrated Toe of Fill
- - - Existing Mean High Water Line (MHWL)
- Proposed Mean High Water Line (MHWL)
- Limits of Hardbottom

**COASTAL TECH**

Certificate of Authorization Number: 00004195

3625 20th Street, Vero Beach, Florida 32960

VERO BEACH • SARASOTA • MELBOURNE • AUSTIN

Plan View - 1972 Fill Area

Beach & Dune Restoration Project
St. Lucie County, Florida

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LAST REVISION

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DATE

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SHEET 2

OF 13 SHEETS

JOB NO.

24360.06

**NOTES:**

1. Aerial photographs obtained on August 01, 2008 and provided by Aerial Cartographics of America, Inc.
2. Limits of Hardbottom determined by Continental Shelf Associates International, Inc.
3. Equilibrated Toe of Fill is equivalent to seaward limits of fill where fill is proposed to be placed landward of existing Mean High Water Line (MHWL).

SCALE IN FEET

Legend

- Proposed Up/land Limits of Fill
- Proposed Seaward Edge of the Top of Dune
- Equilibrated Toe of Fill
- Existing Mean High Water Line (MHWL)
- Proposed Mean High Water Line (MHWL)
- Limits of Hardbottom

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Plan View - 1972 Fill Area

Beach & Dune Restoration Project
St. Lucie County, Florida

ENGR

MPW

LAST REVISION

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AQN

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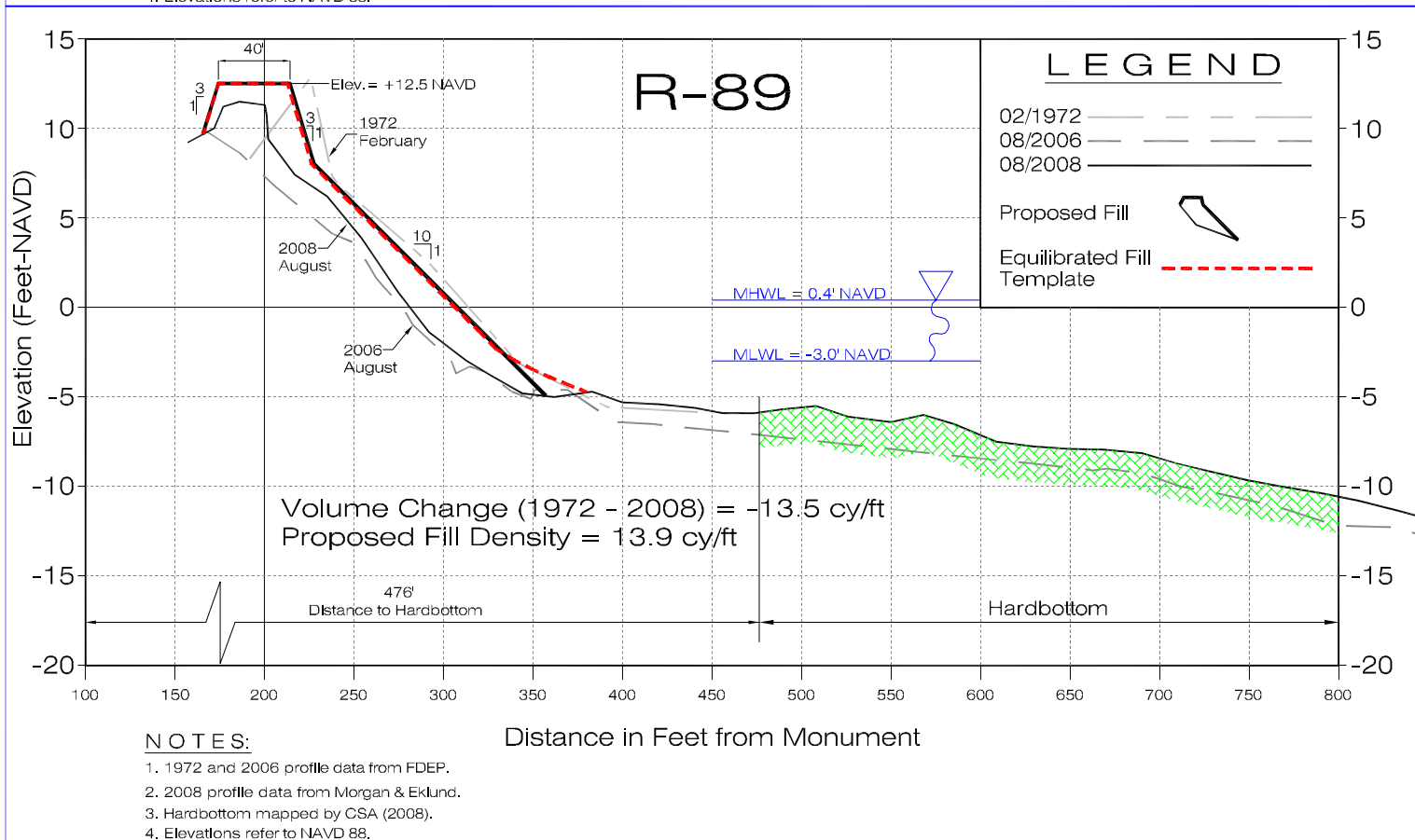
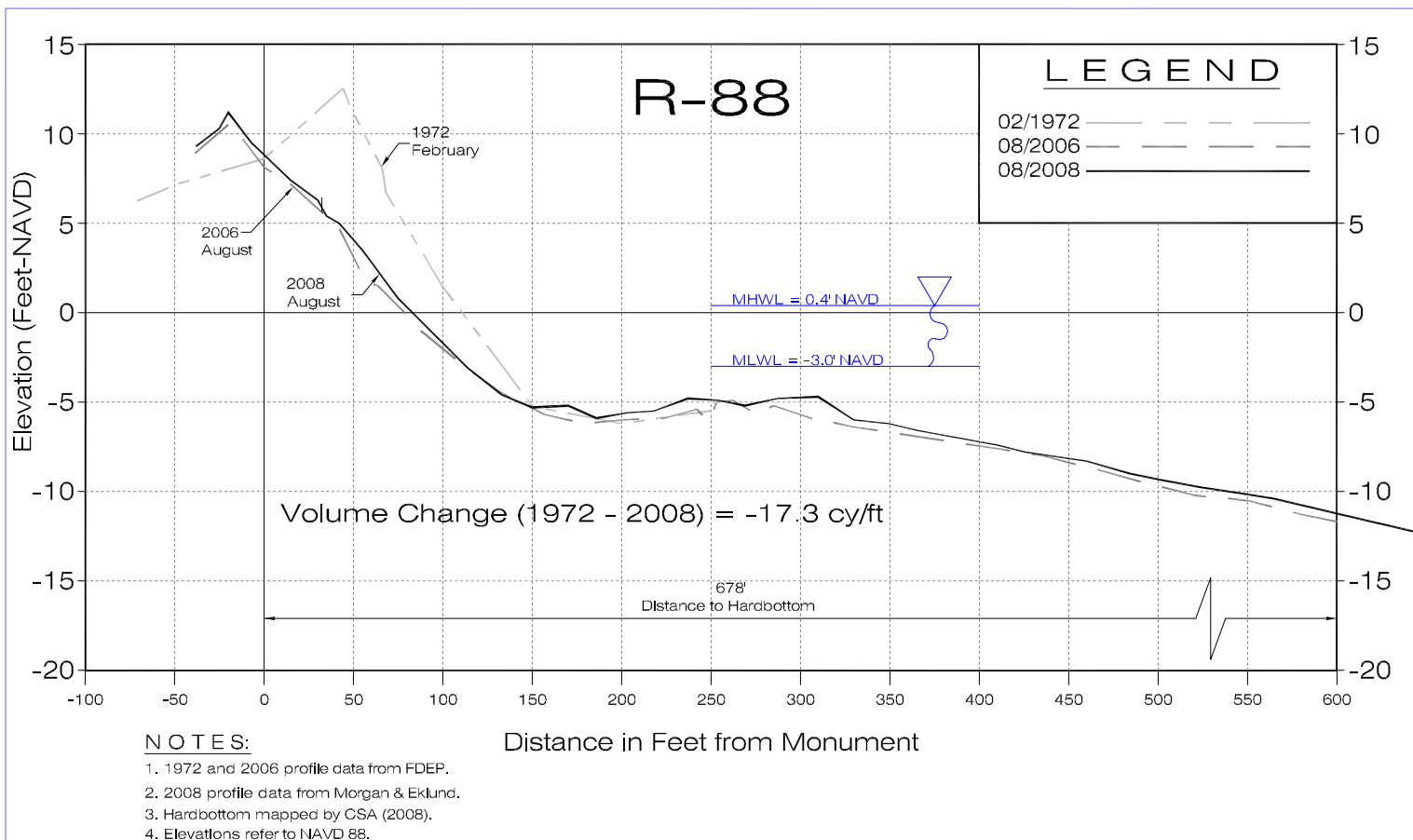
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3

OF 13 SHEETS

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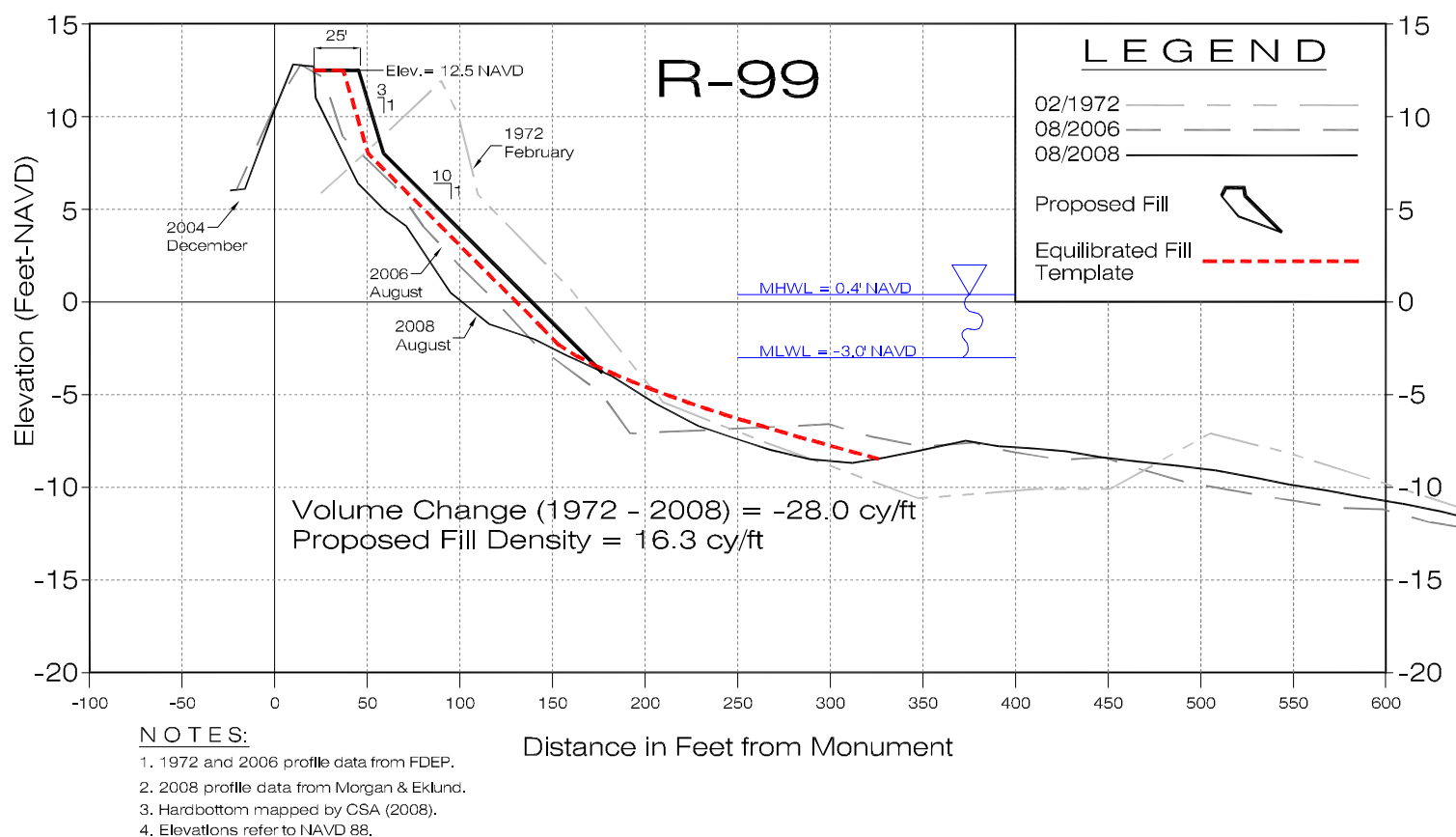
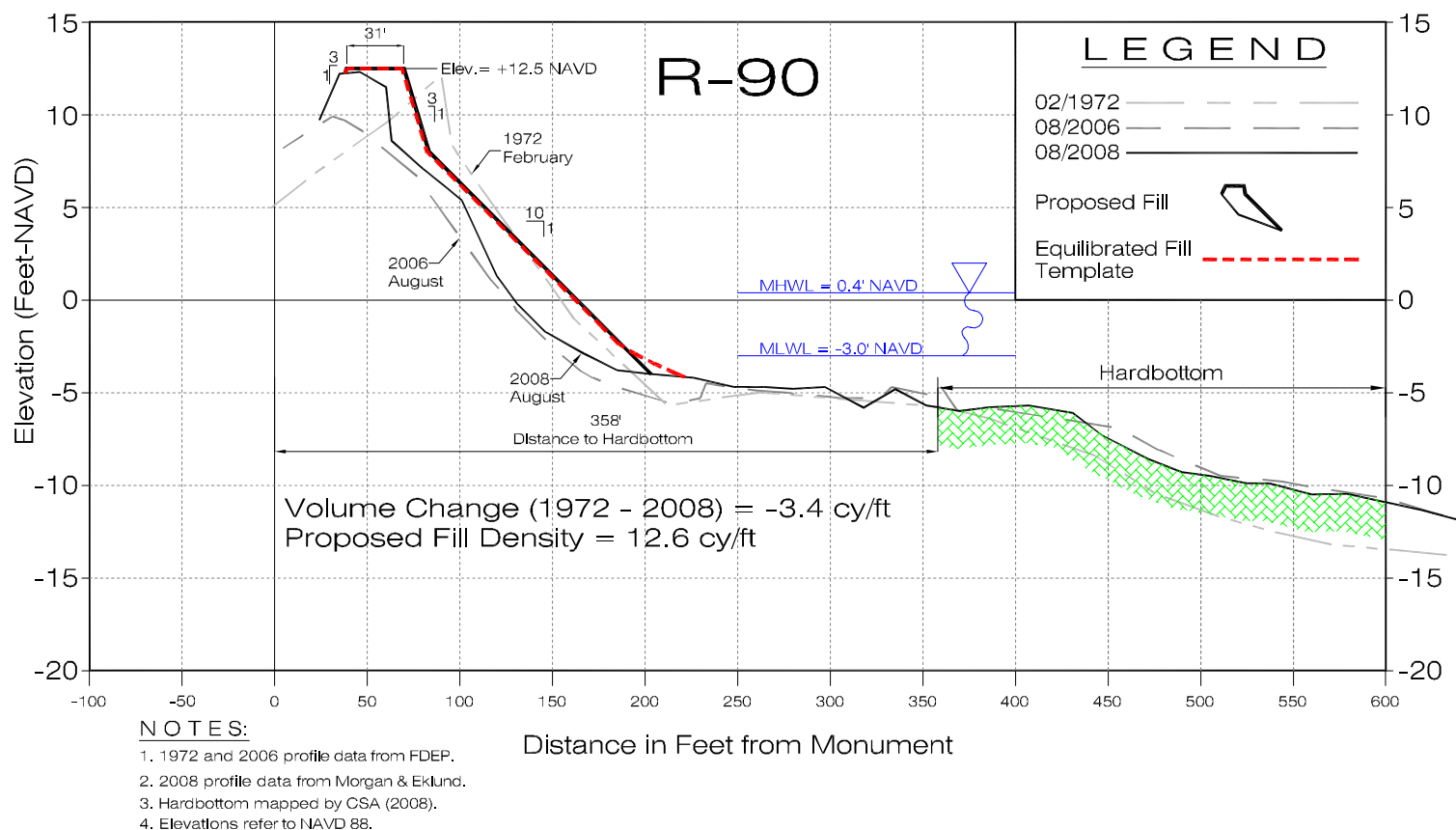
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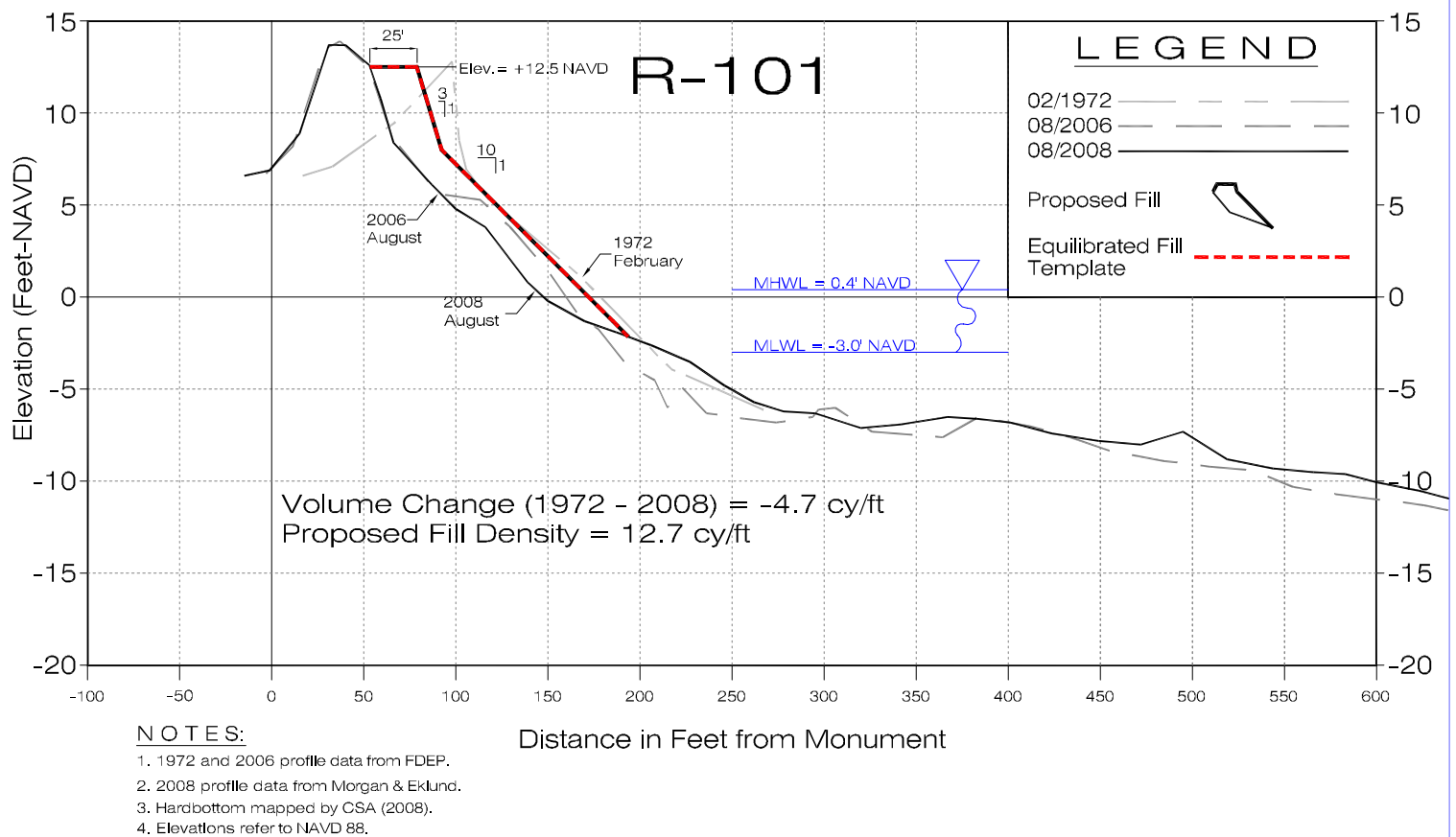
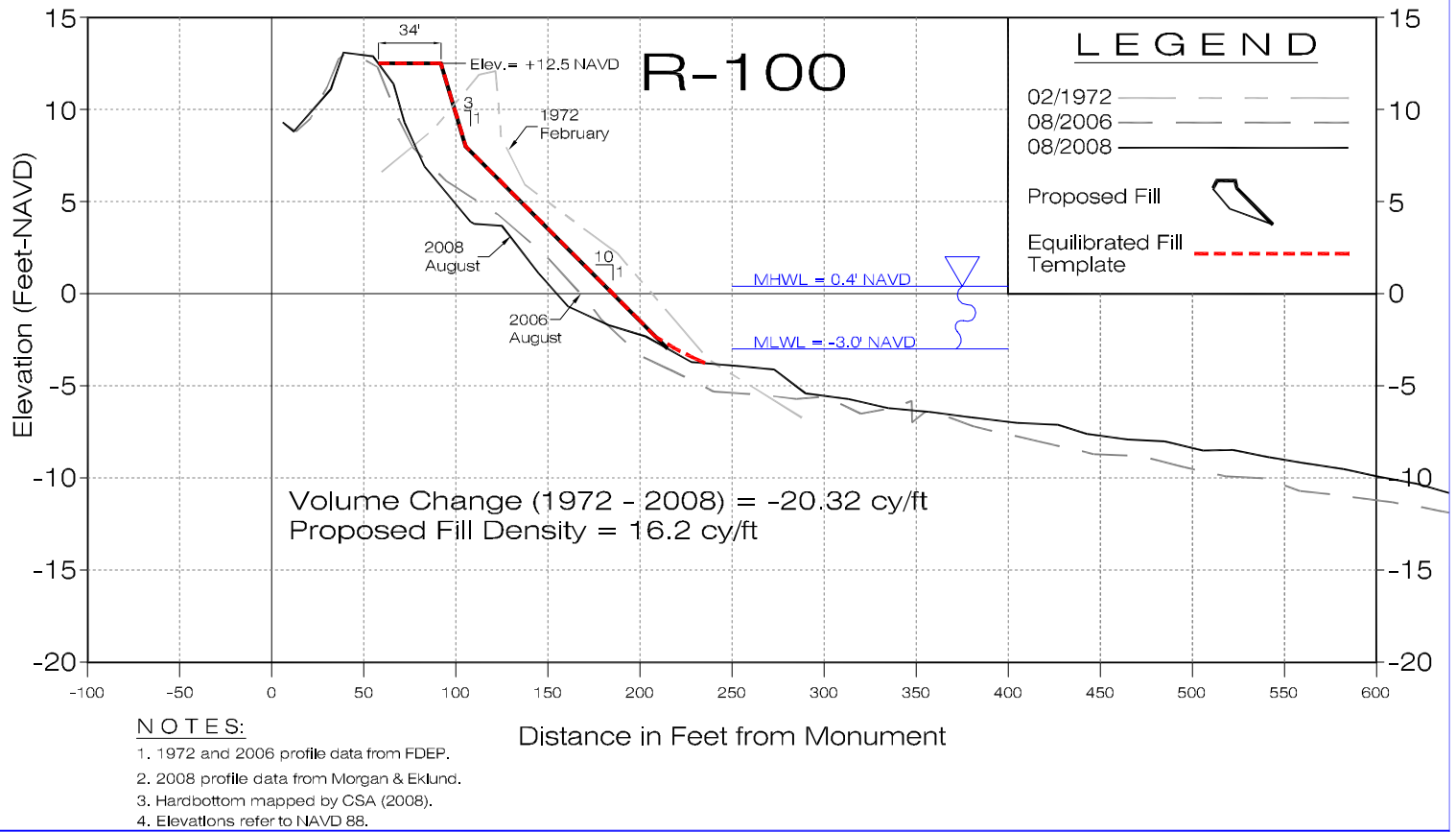
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OF 13 SHEETS

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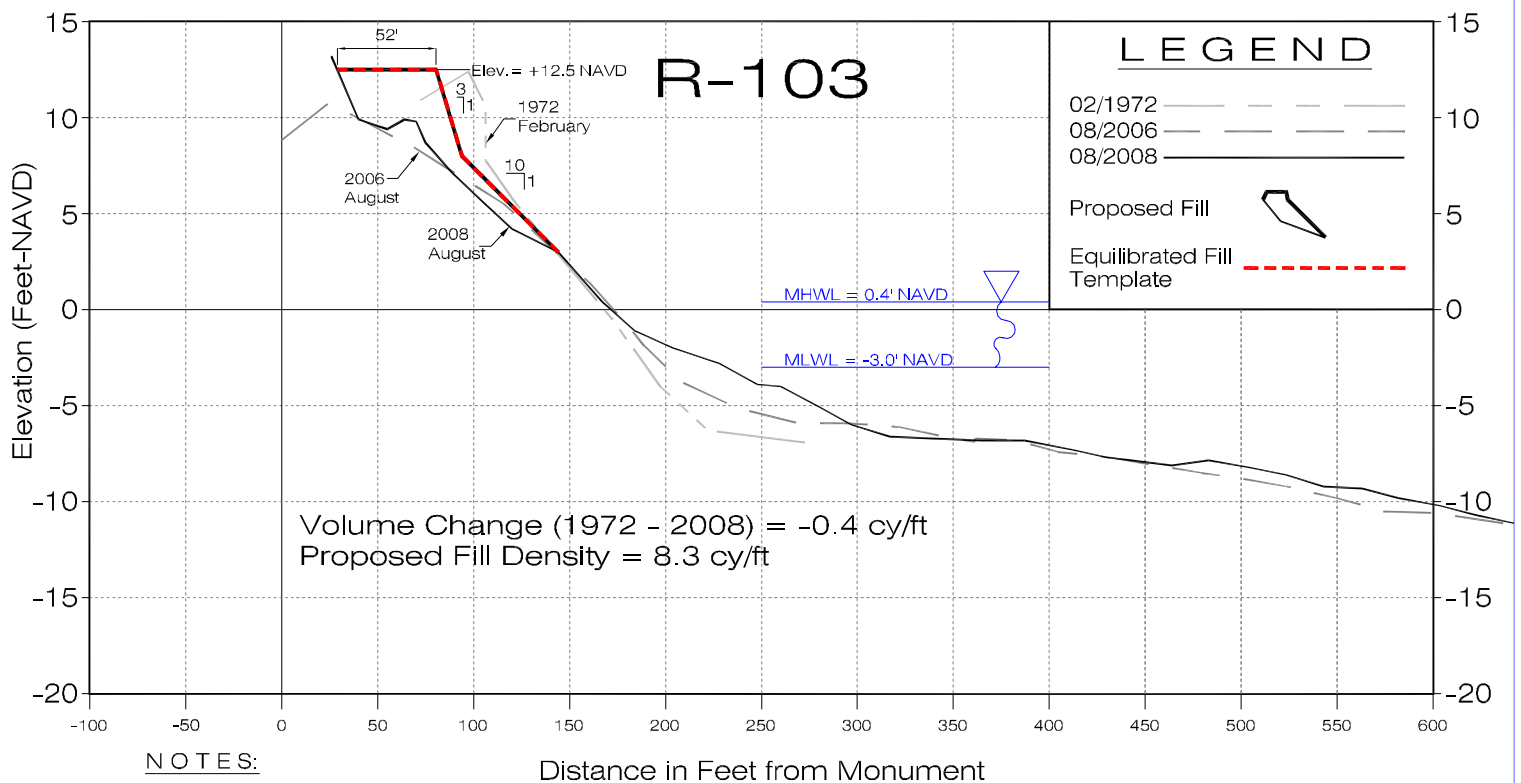
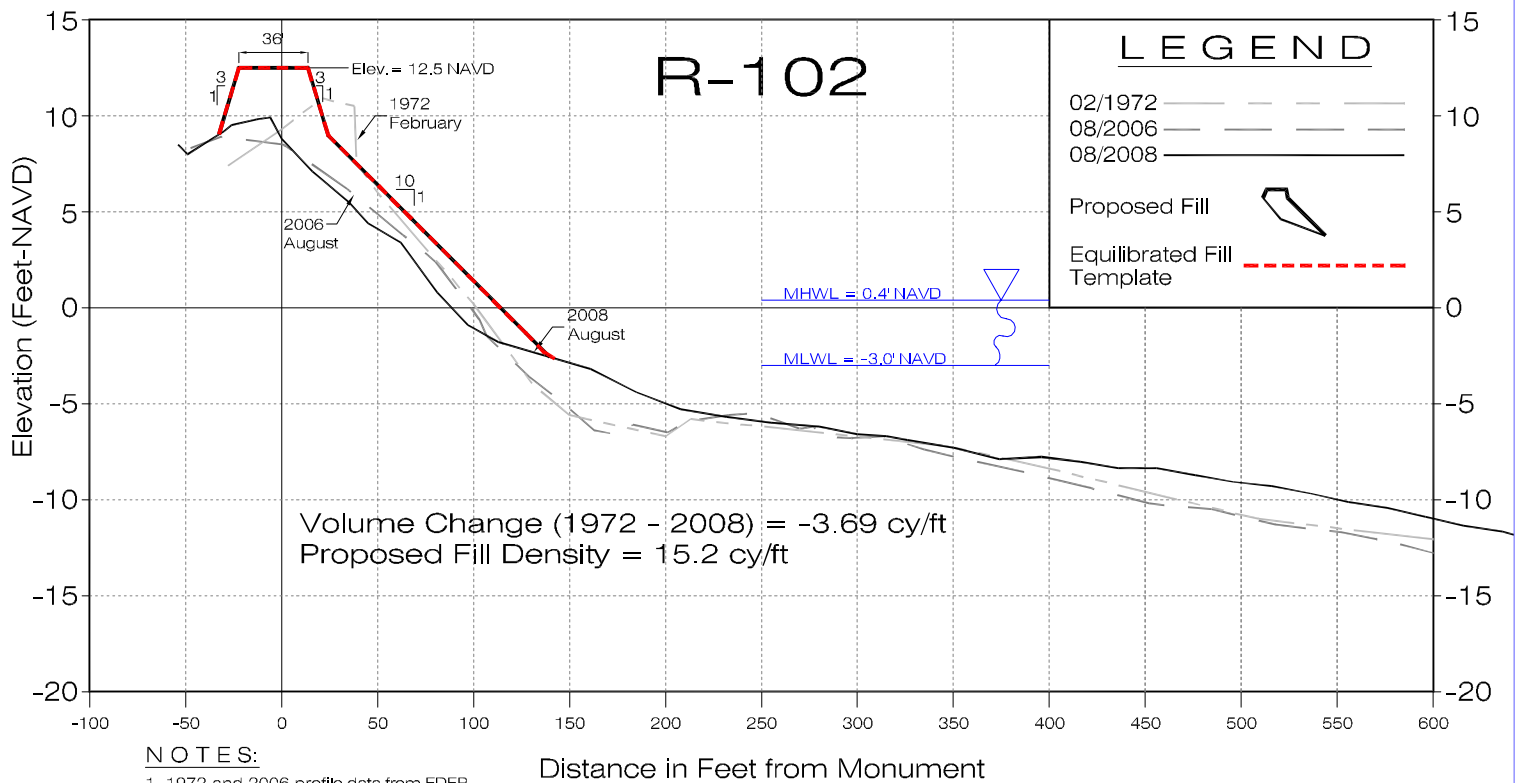
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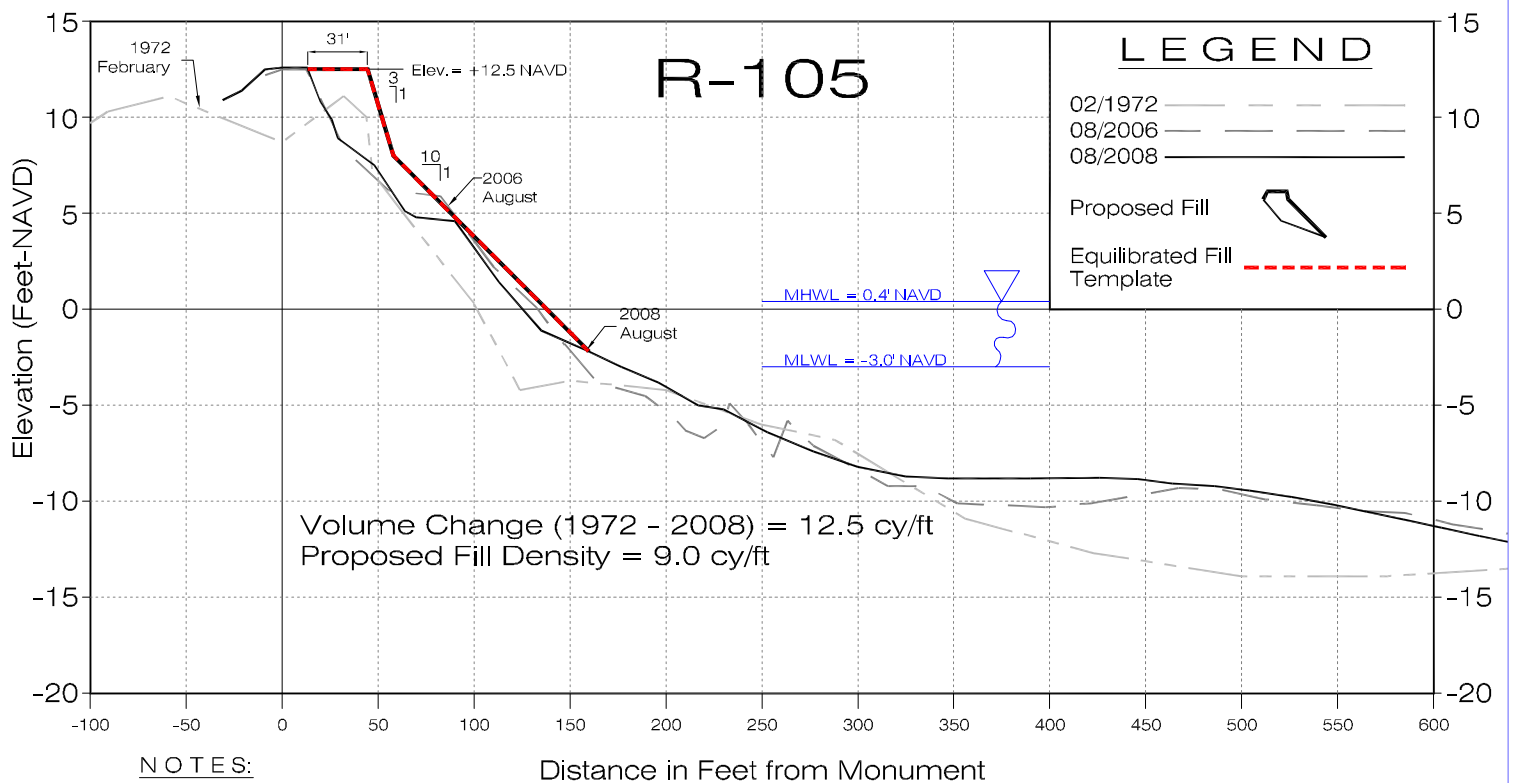
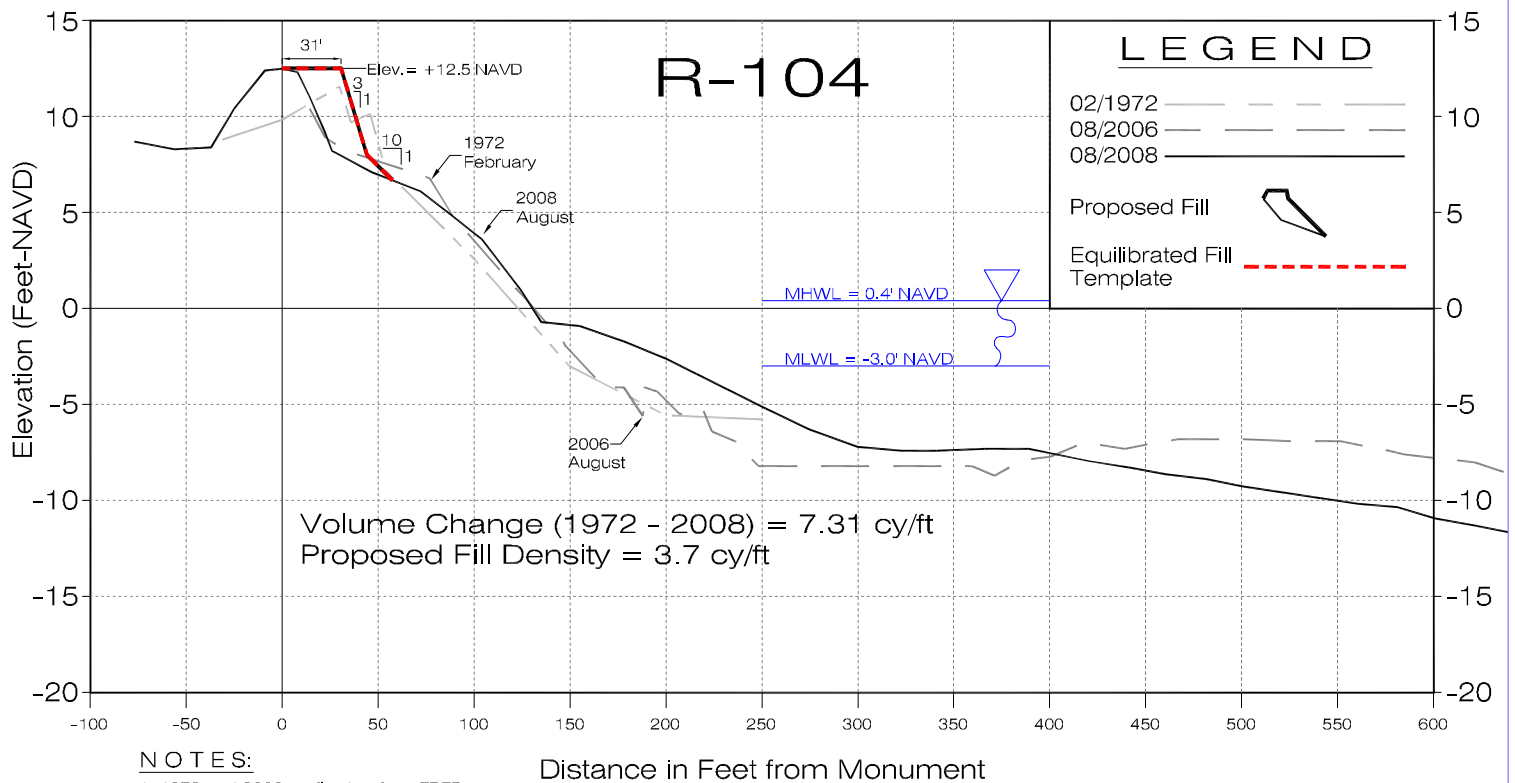
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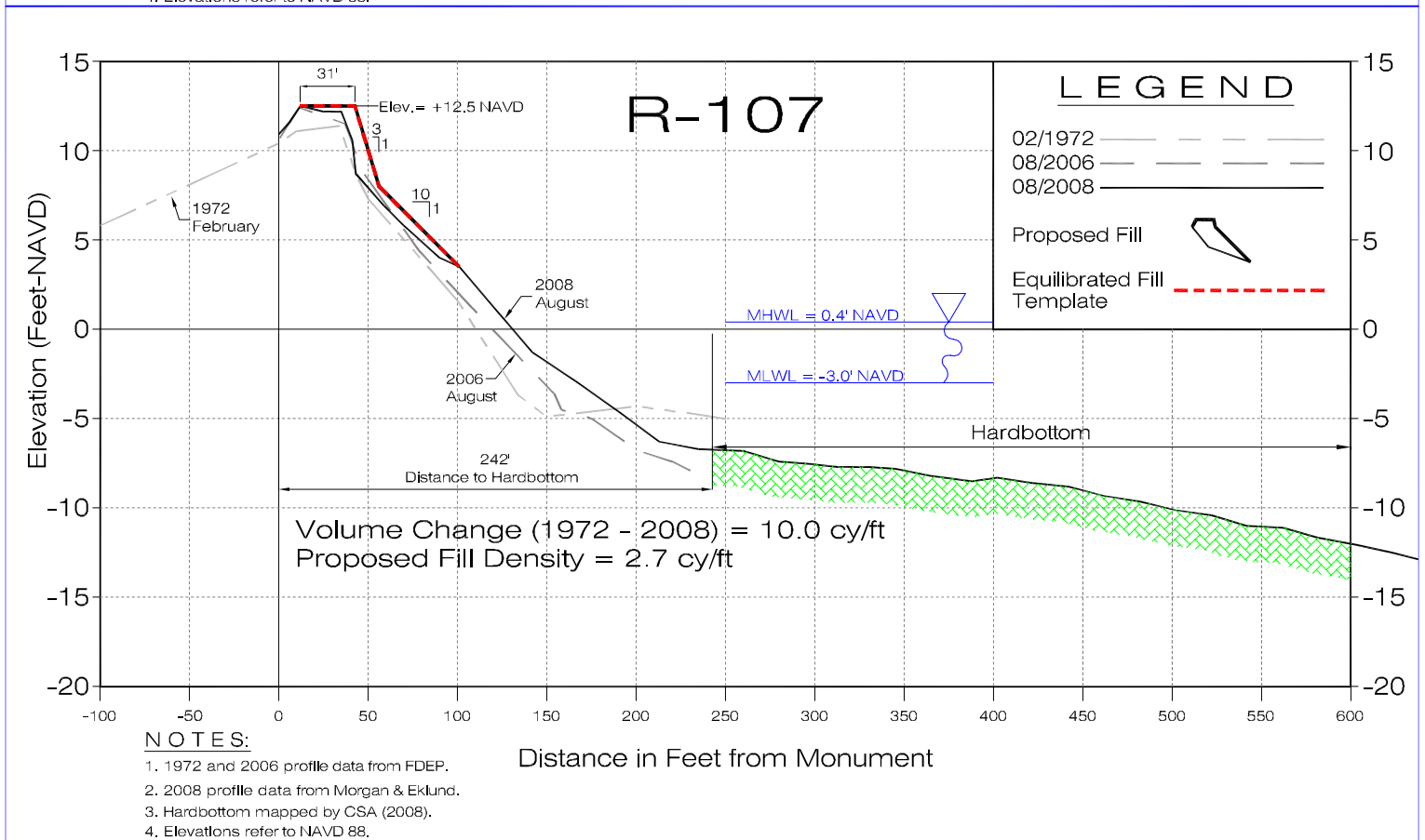
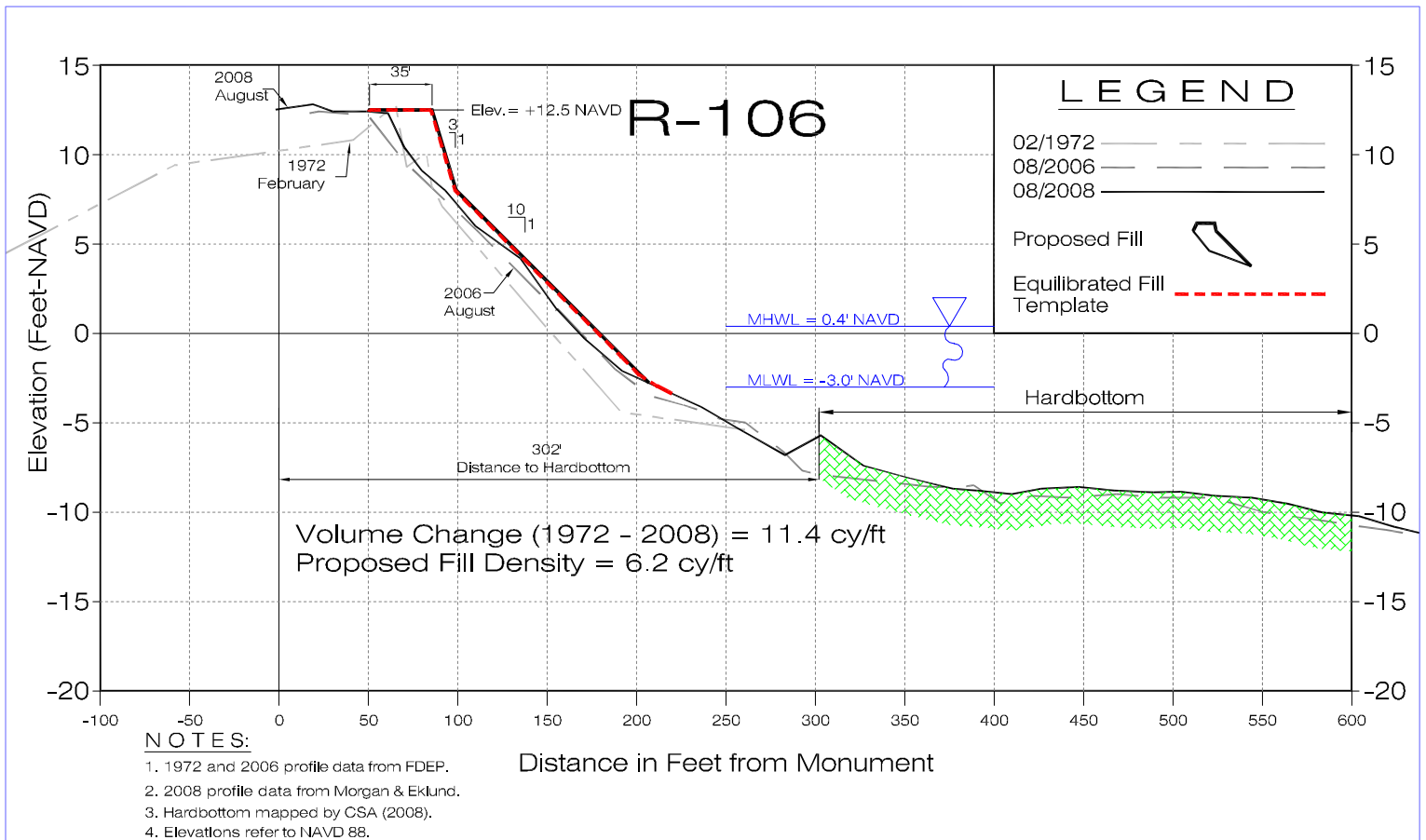
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OF 13 SHEETS

JOB NO.

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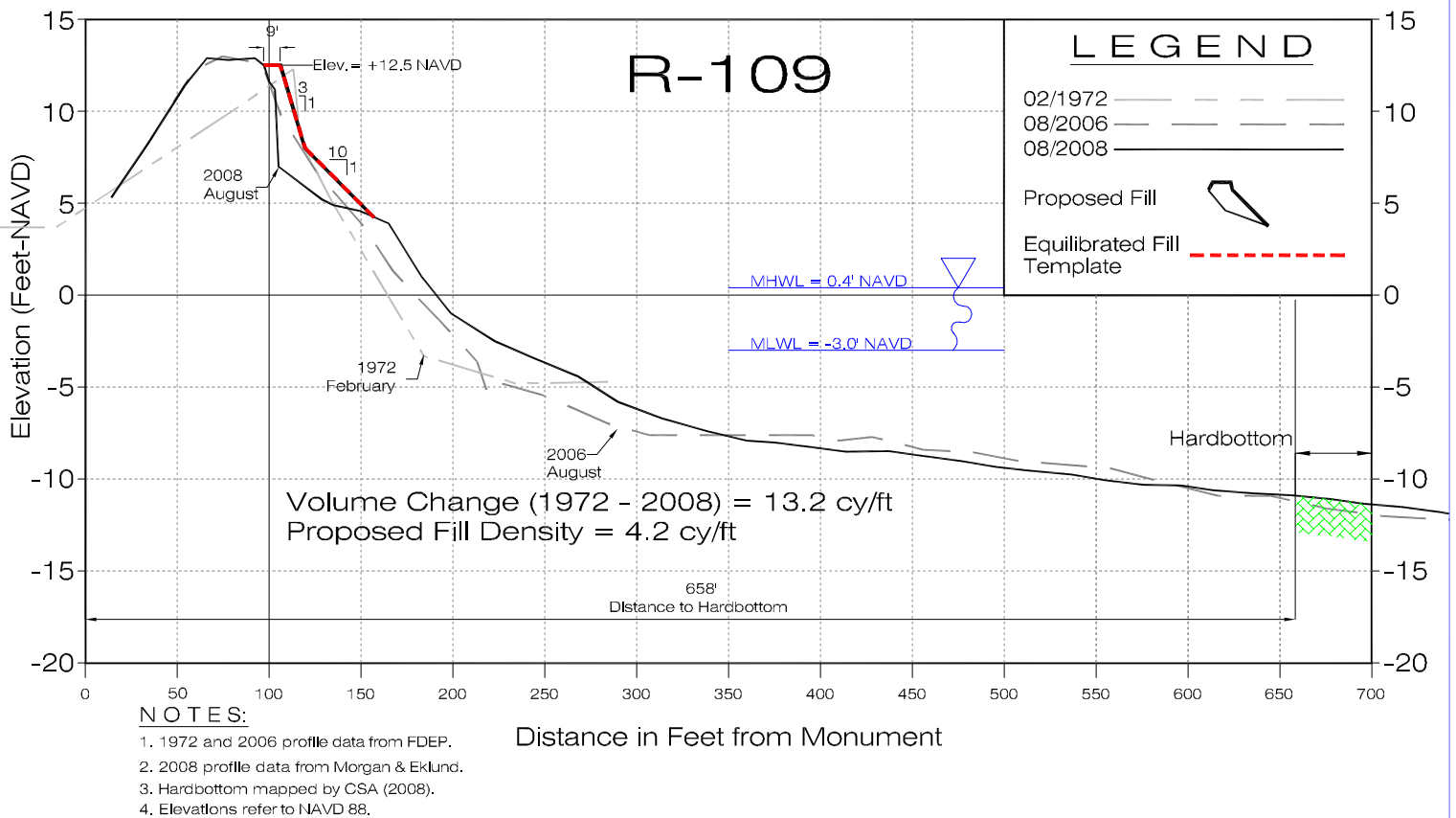
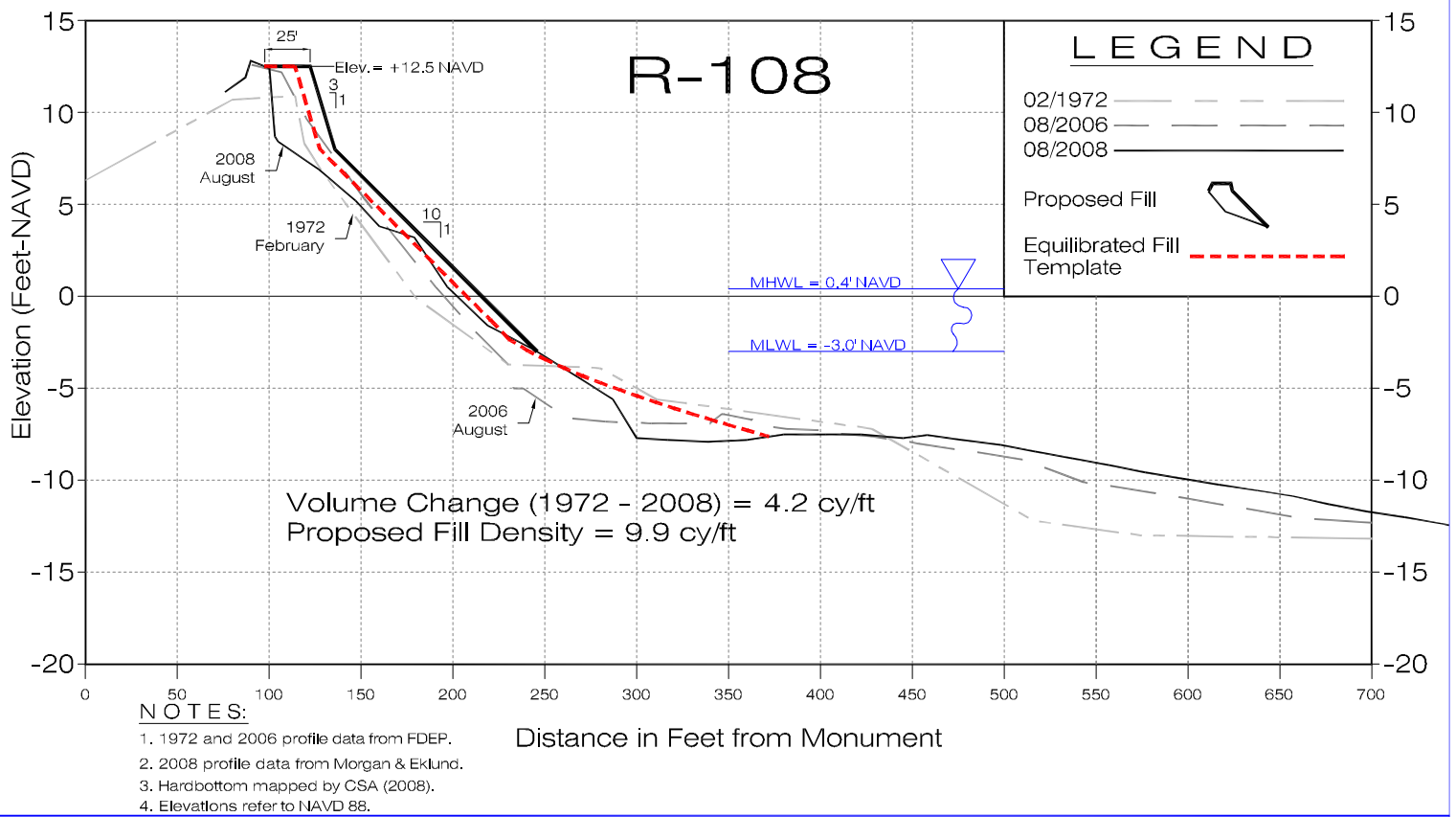
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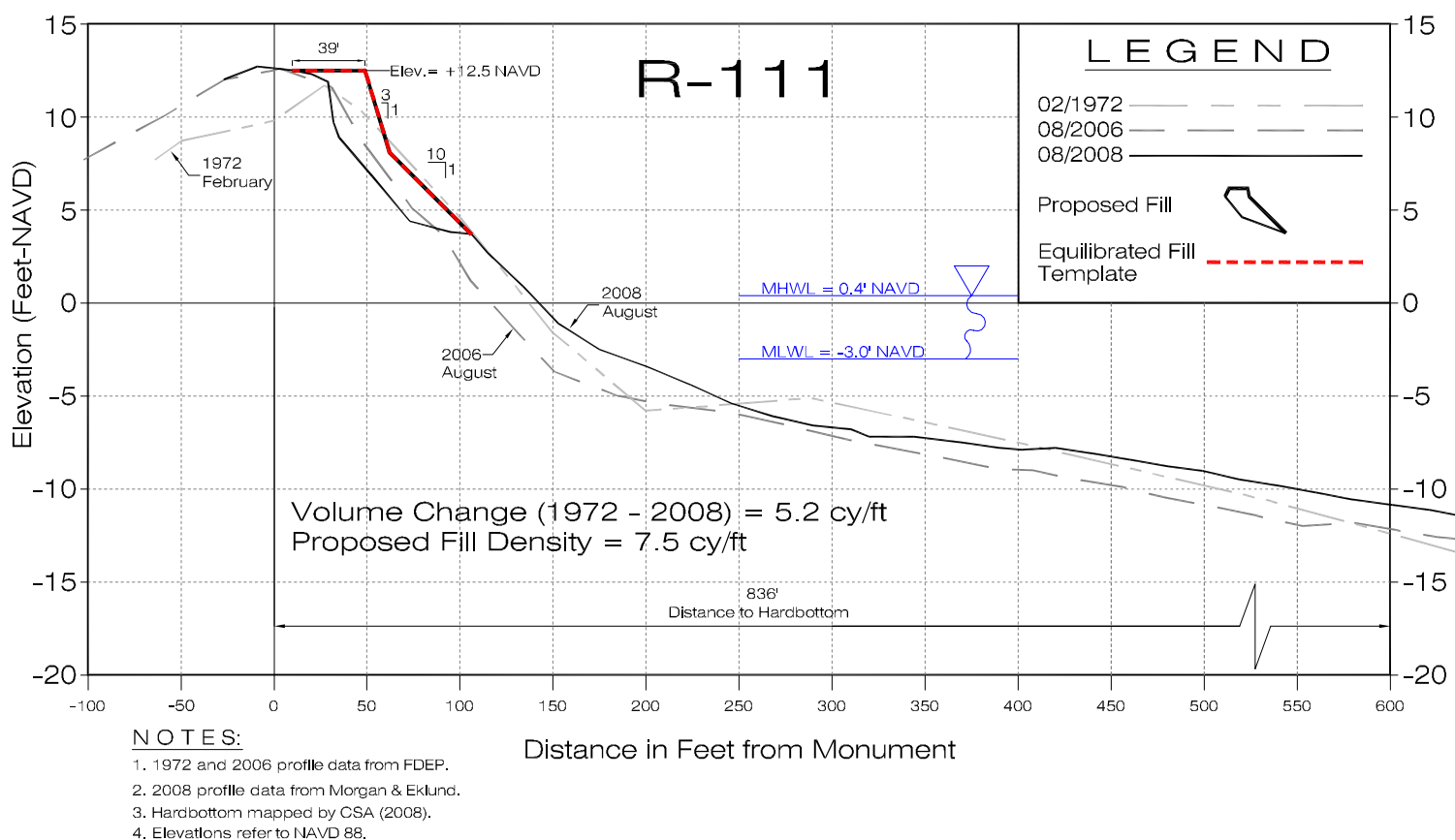
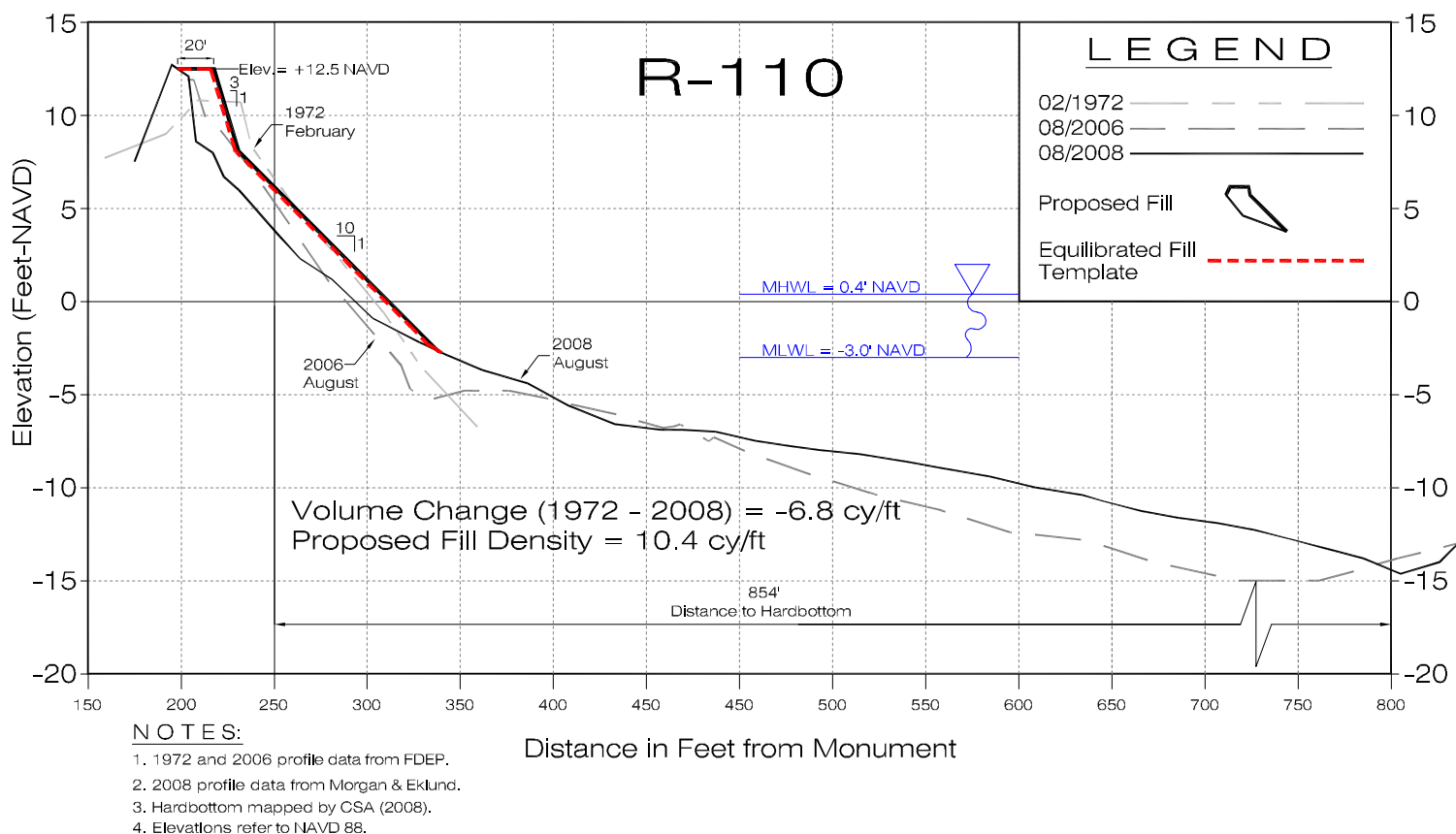
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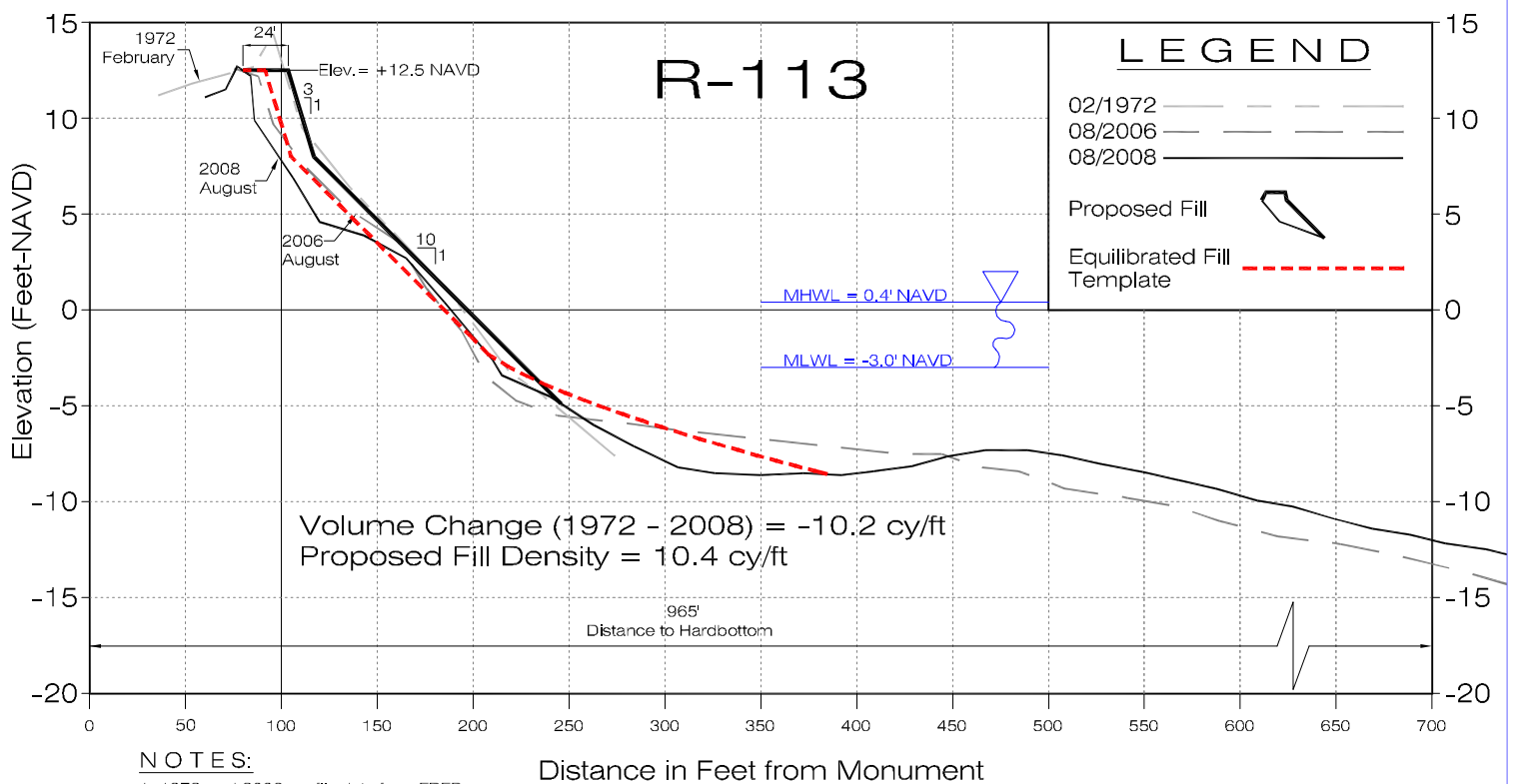
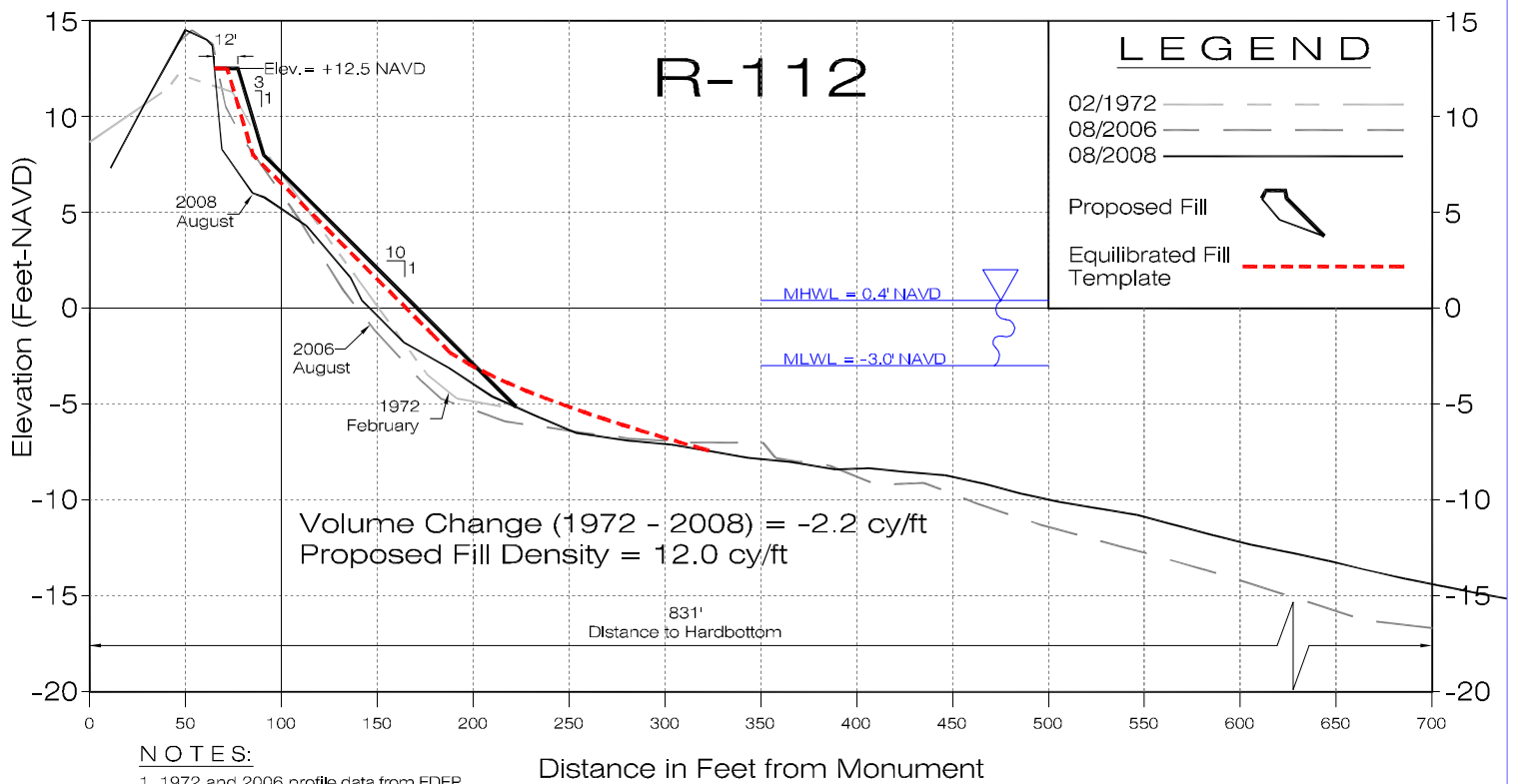
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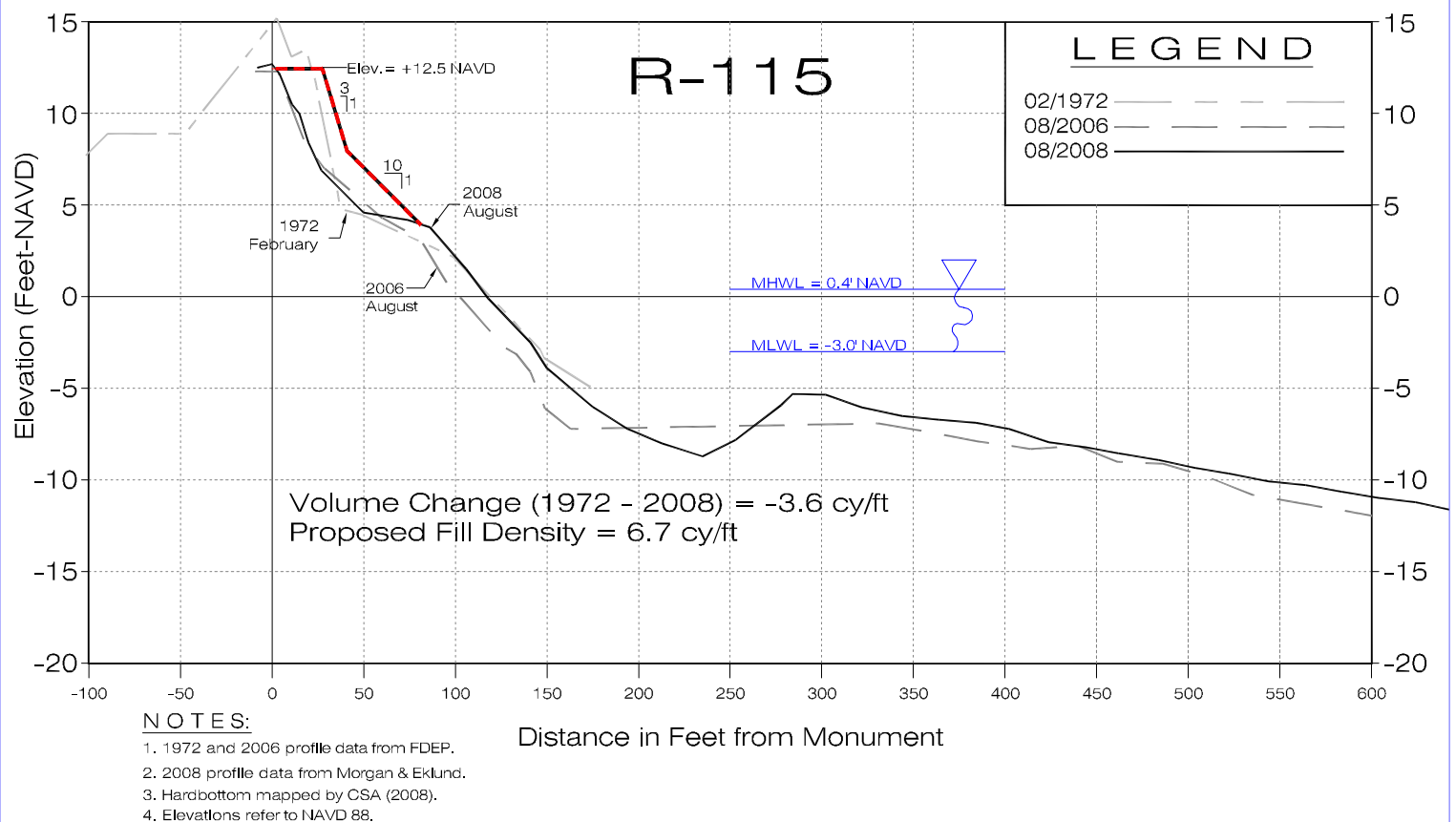
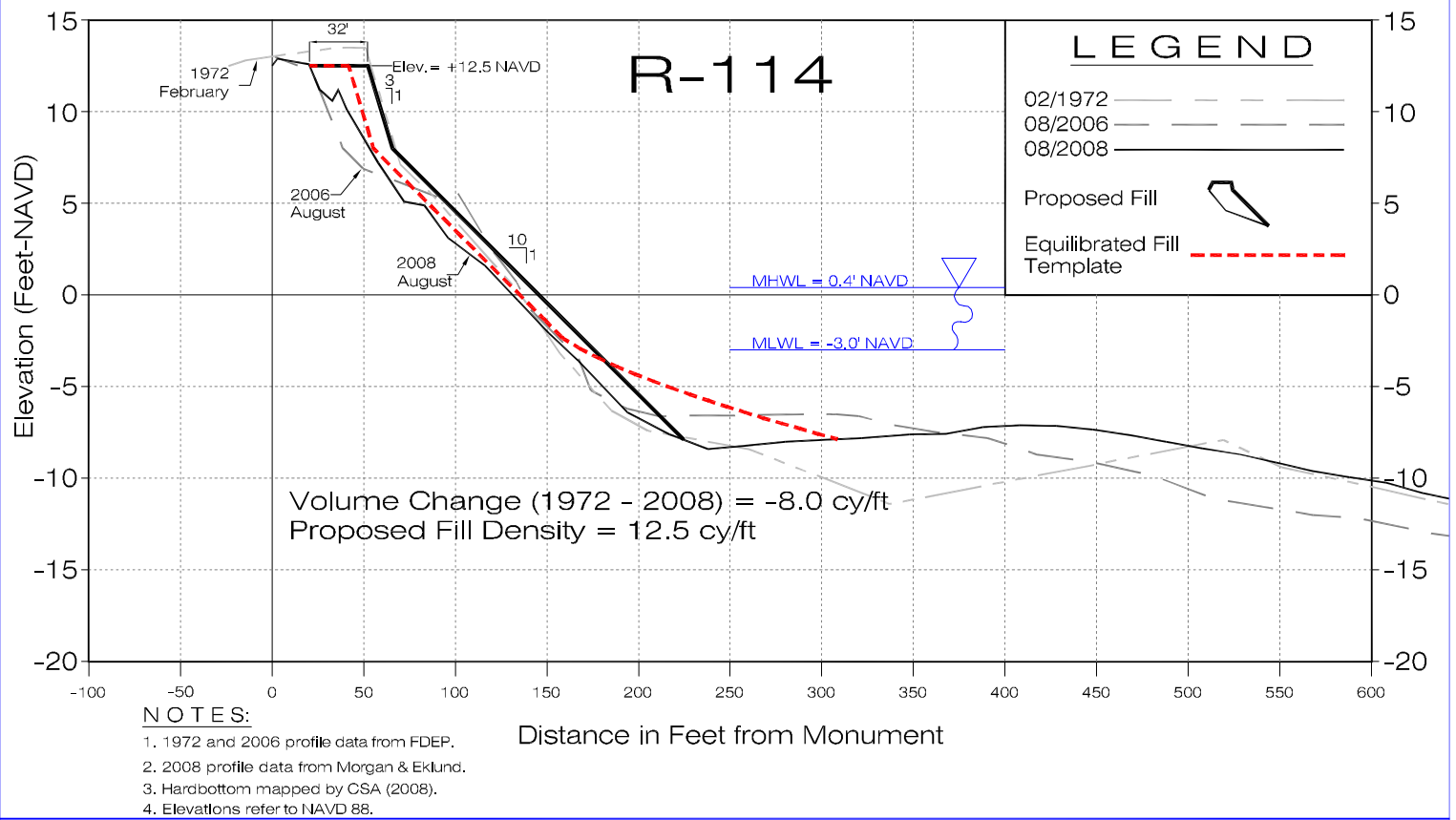
OF 25 SHEETS

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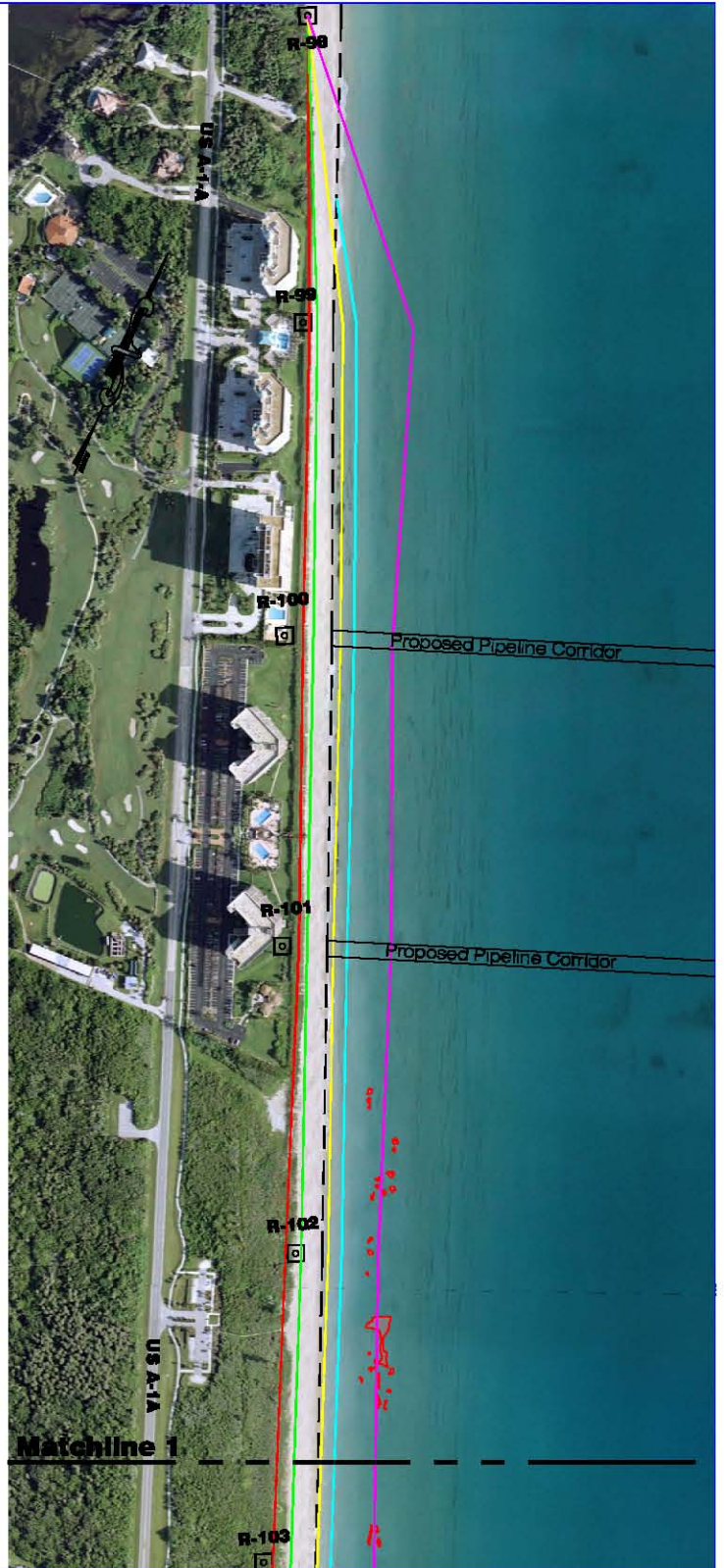
DATE
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SHEET 13

OF 13 SHEETS
 JOB NO.
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SUB-APPENDIX D3

SOUTH COUNTY BEACHES 35' BERM



NOTES:

1. Aerial photographs obtained on August 01, 2008 and provided by Aerial Cartographics of America, Inc.
2. Limits of Hardbottom determined by Continental Shelf Associates International, Inc.

SCALE IN FEET

Legend

- Proposed Upland Limits of Fill
- Proposed Seaward Edge of the Top of Dune
- Existing Mean High Water Line (MHWL)
- Proposed Seaward Edge of Top of Berm
- Proposed Mean High Water Line (MHWL)
- Equilibrated Toe of Fill of the Advanced Nourishment
- Limits of Hardbottom



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Plan View - 35' Berm Fill Area

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DATE

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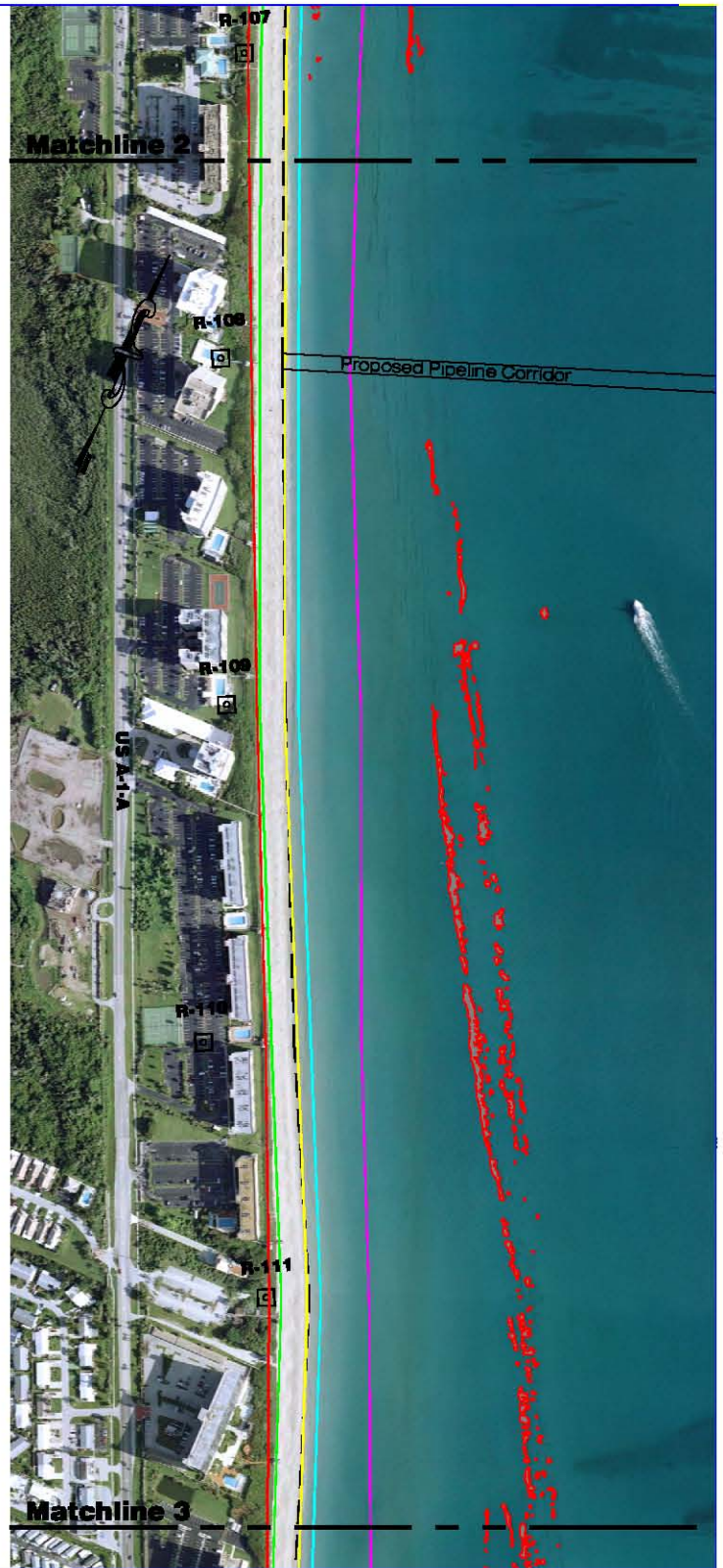
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1

OF 13 SHEETS

JOB NO.

24360.06



Legend

- Proposed Upland Limits of Fill
- Proposed Seaward Edge of the Top of Dune
- Existing Mean High Water Line (MHWL)
- Proposed Seaward Edge of Top of Berm
- Proposed Mean High Water Line (MHWL)
- Equilibrated Toe of Fill of the Advanced Nourishment
- Limits of Hardbottom

NOTES:

1. Aerial photographs obtained on August 01, 2008 and provided by Aerial Cartographics of America, Inc.
2. Limits of Hardbottom determined by Continental Shelf Associates International, Inc.

SCALE IN FEET



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Plan View - 35' Berm Fill Area

Beach & Dune Restoration Project
St. Lucie County, Florida

ENGR

MPW

LAST REVISION

DRAWN

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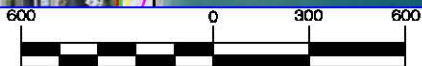
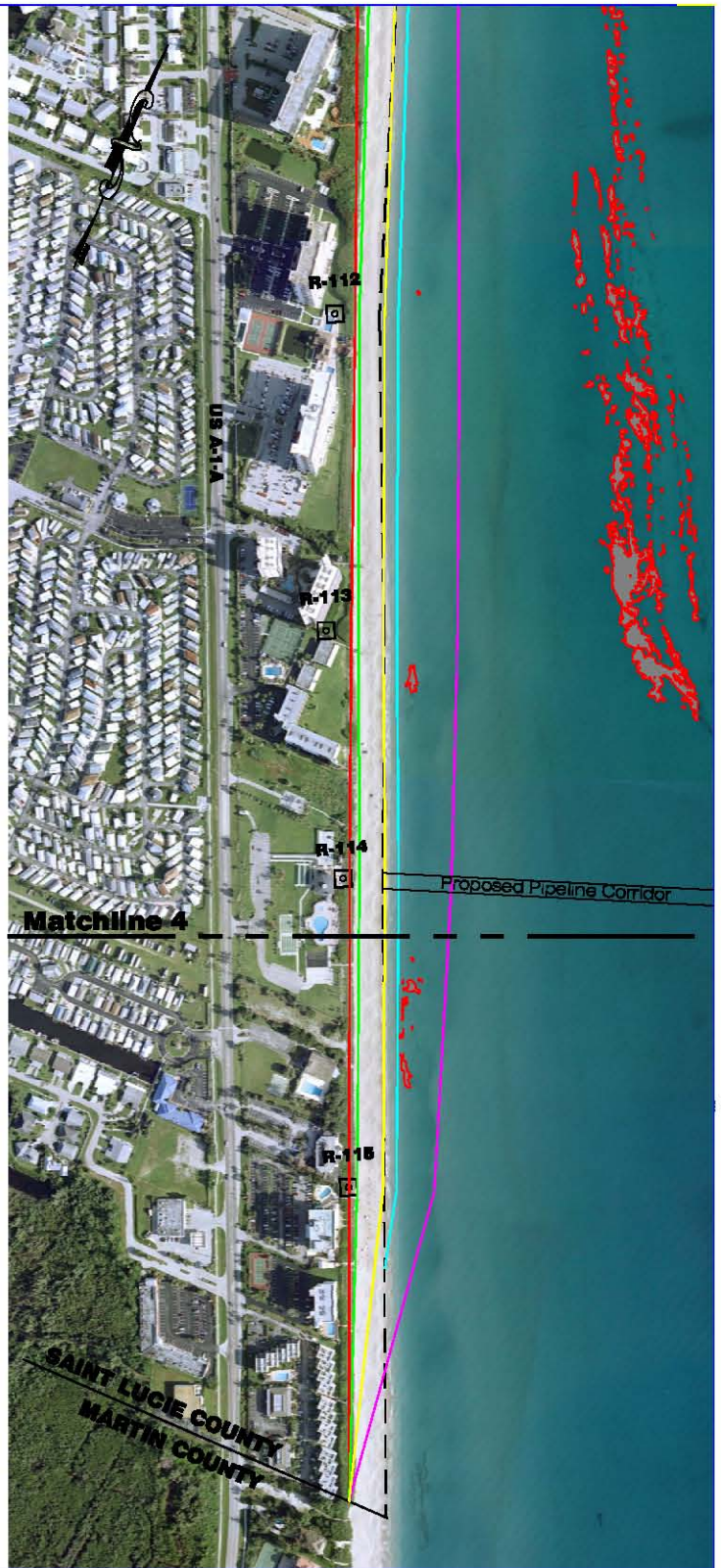
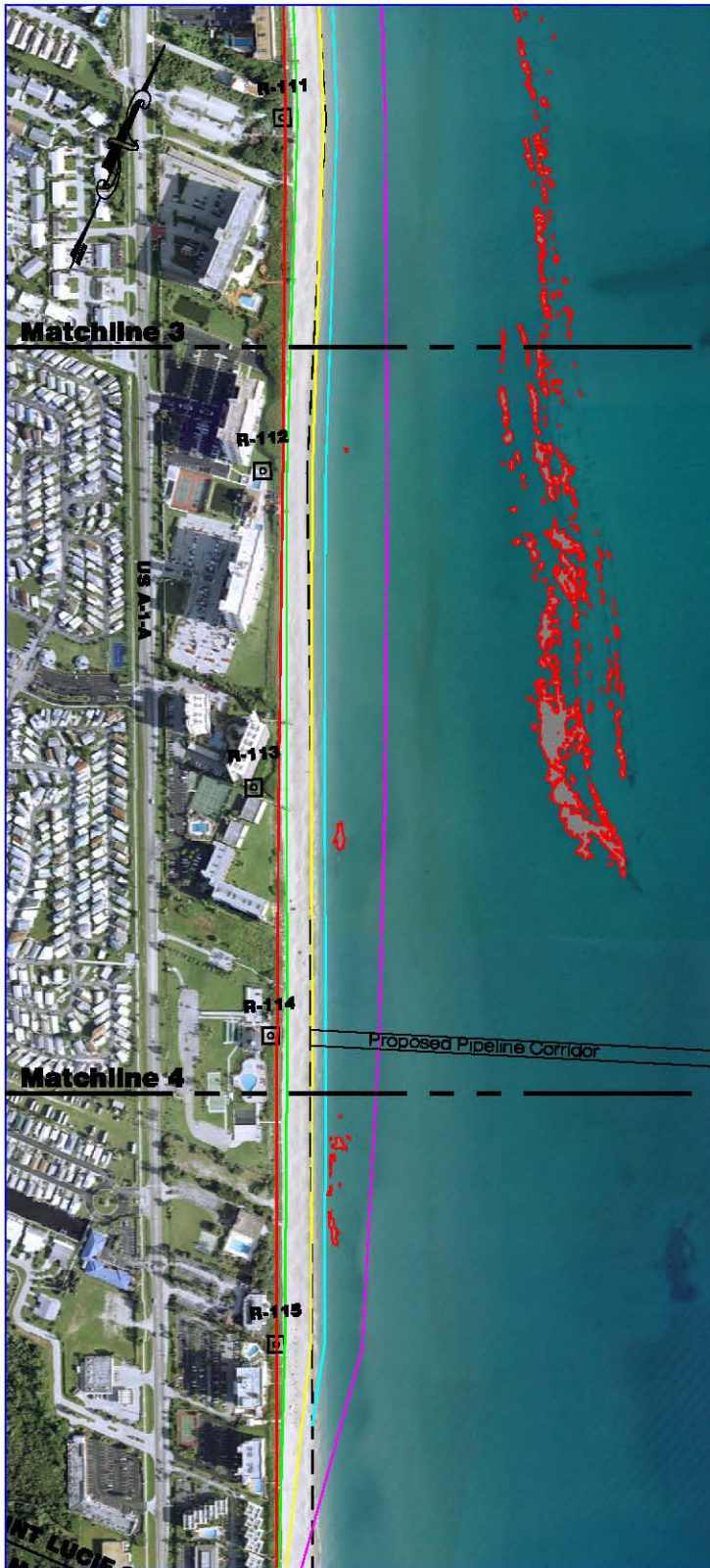
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2

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Legend

- Proposed Upland Limits of Fill
- Proposed Seaward Edge of the Top of Dune
- Existing Mean High Water Line (MHWL)
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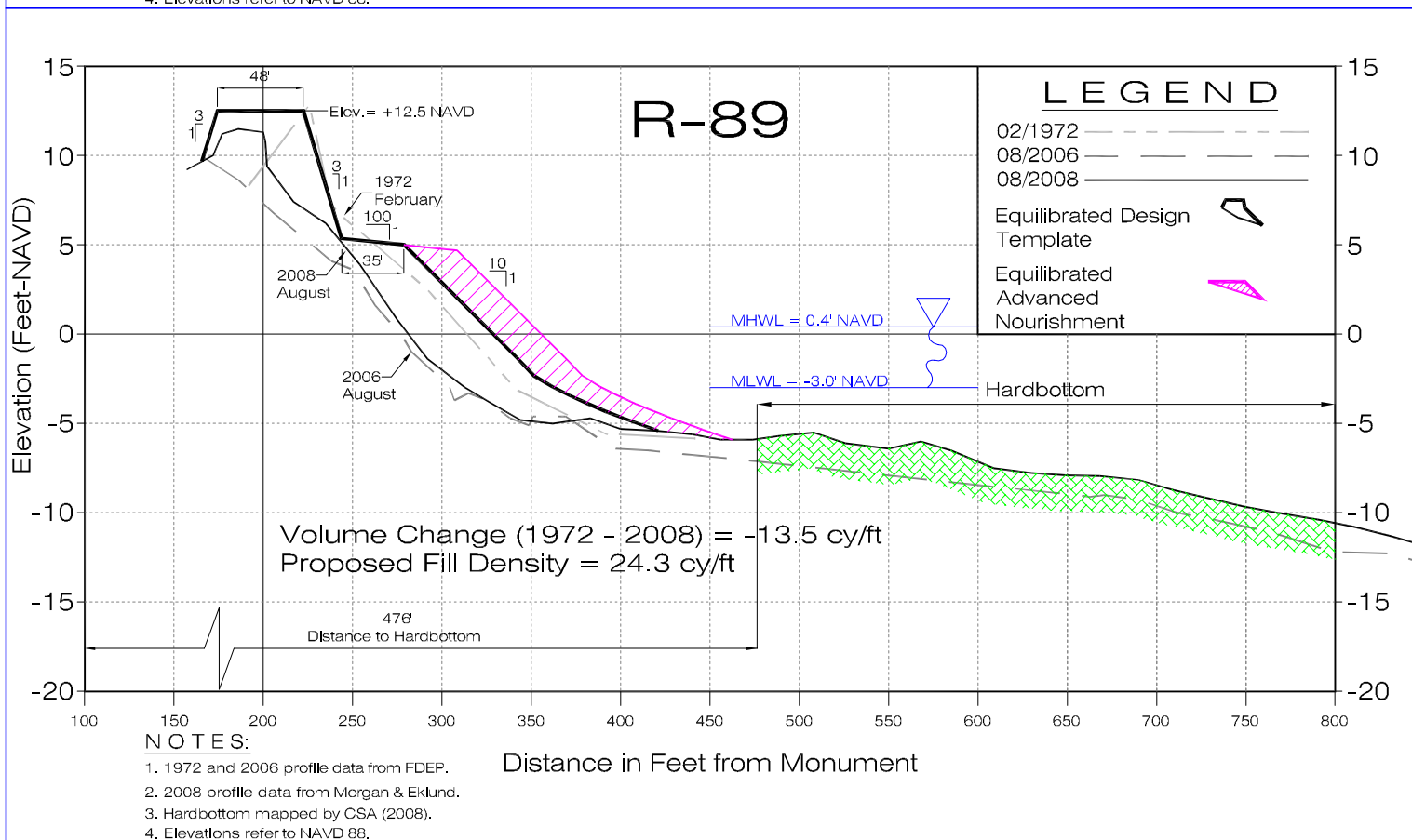
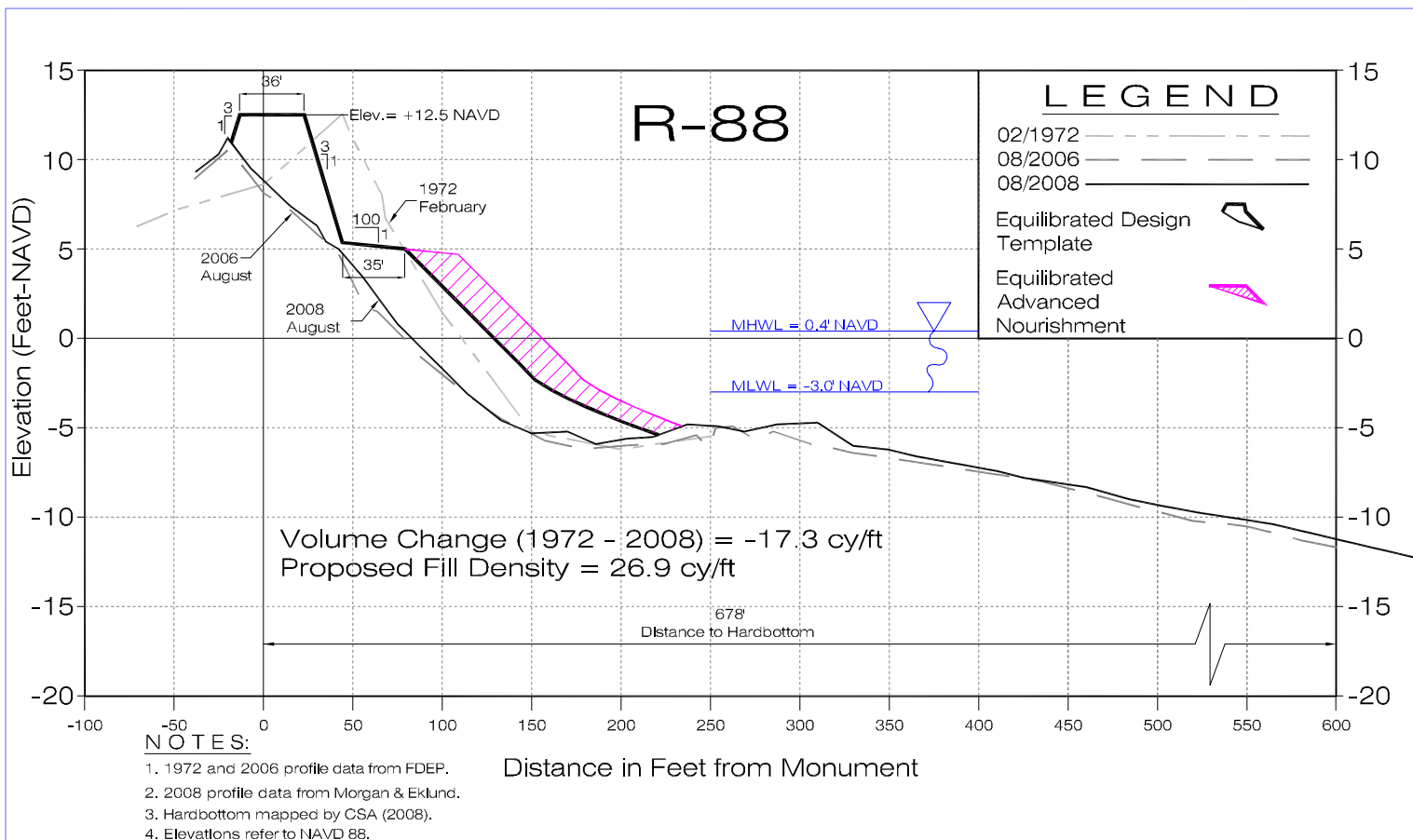
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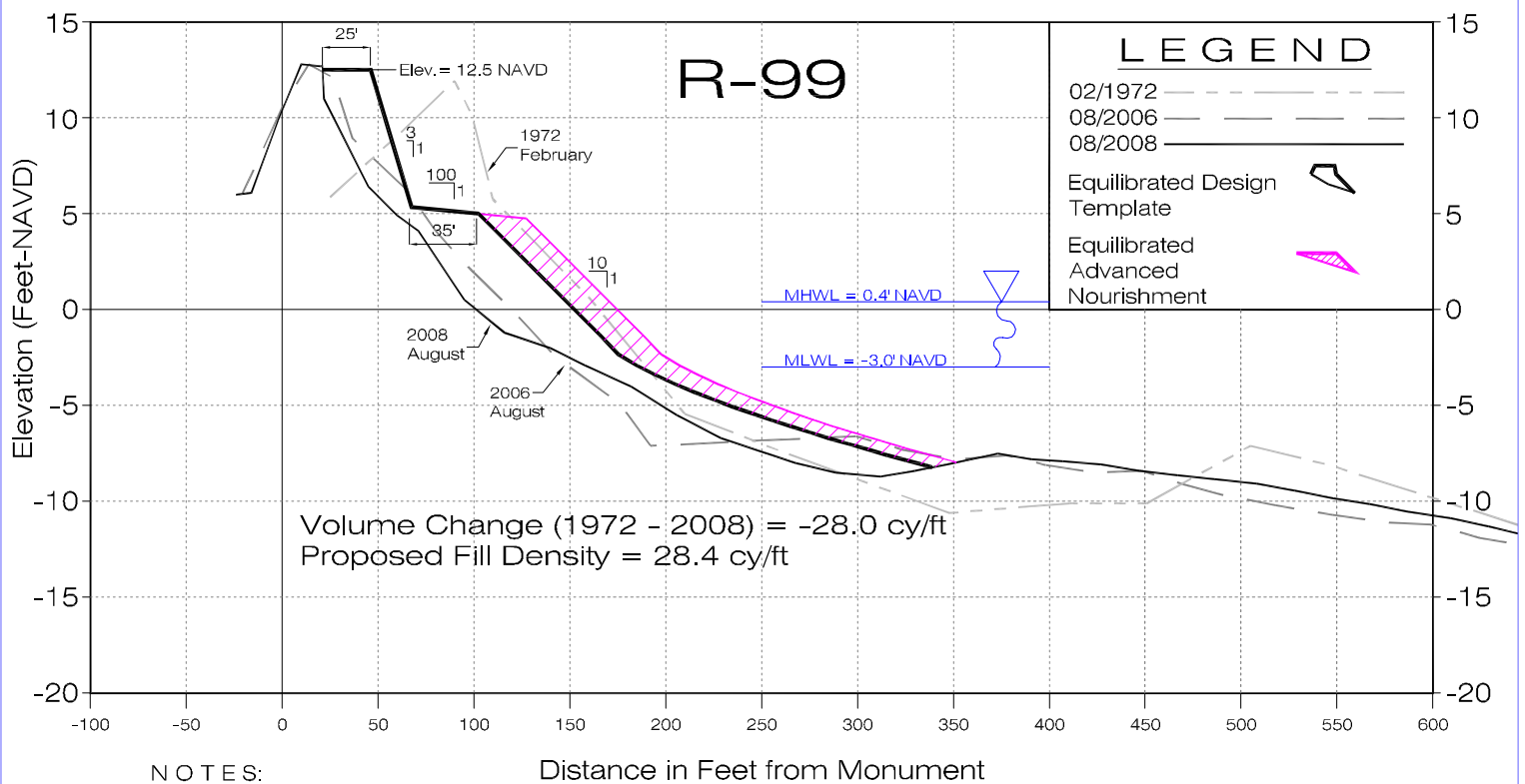
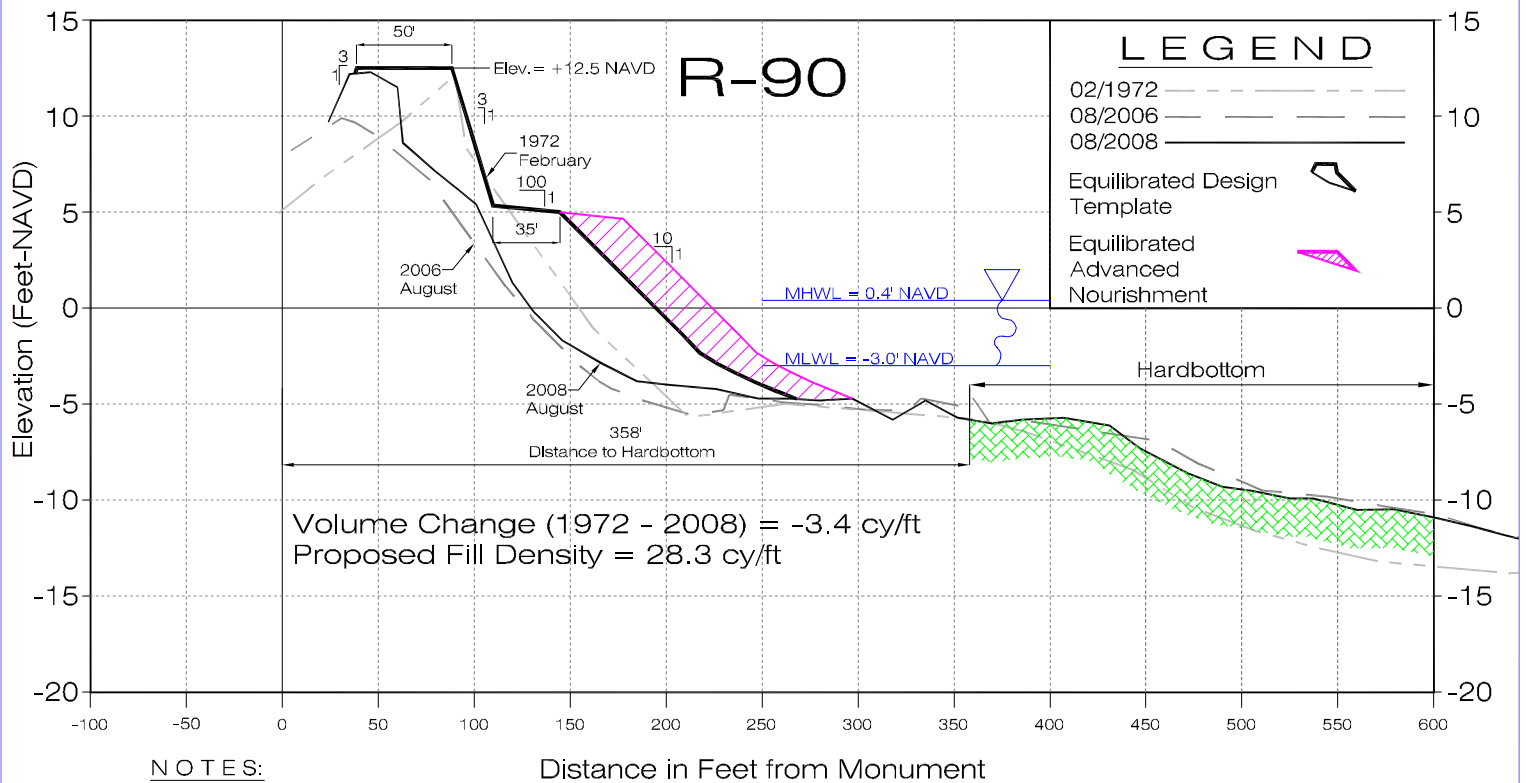
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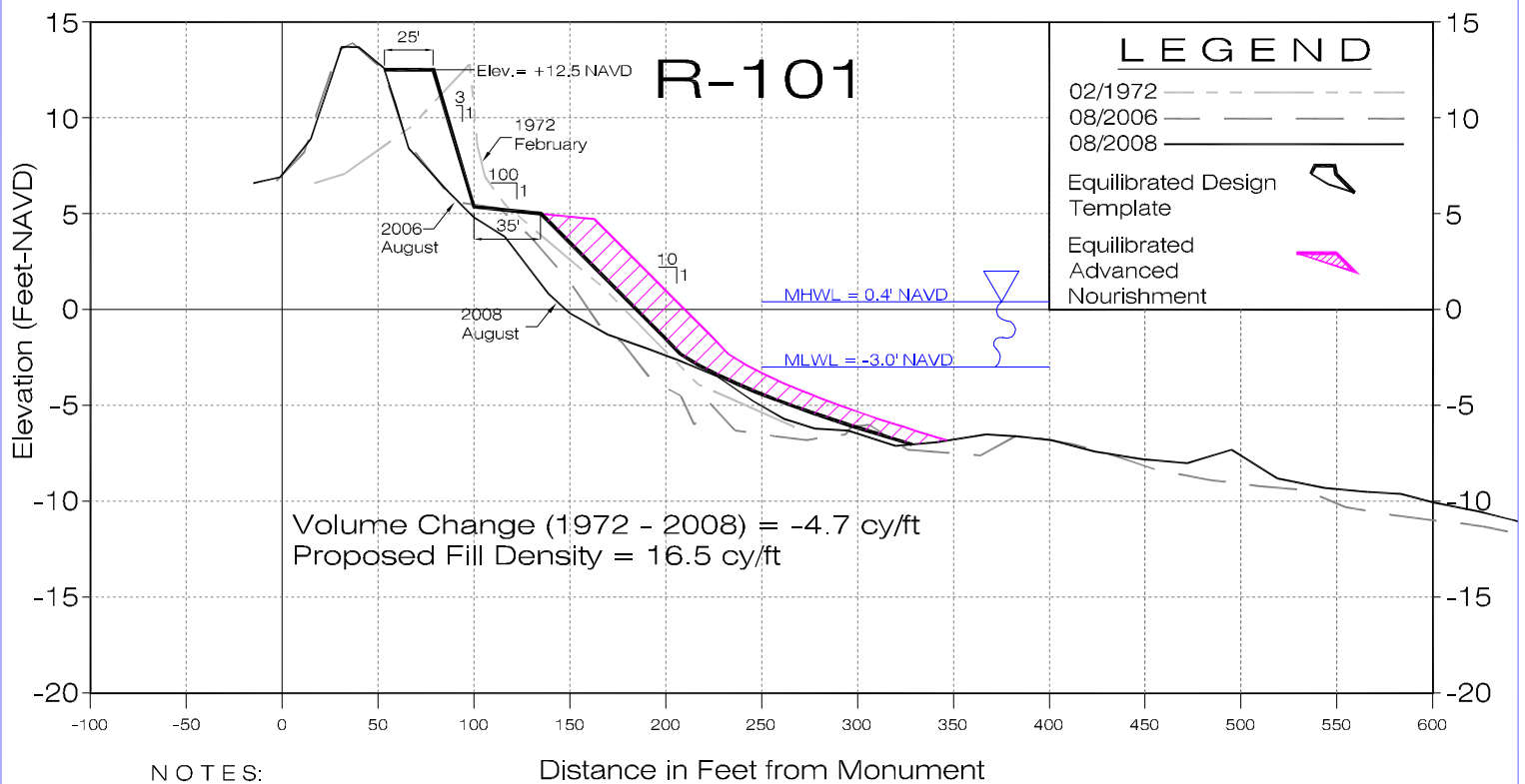
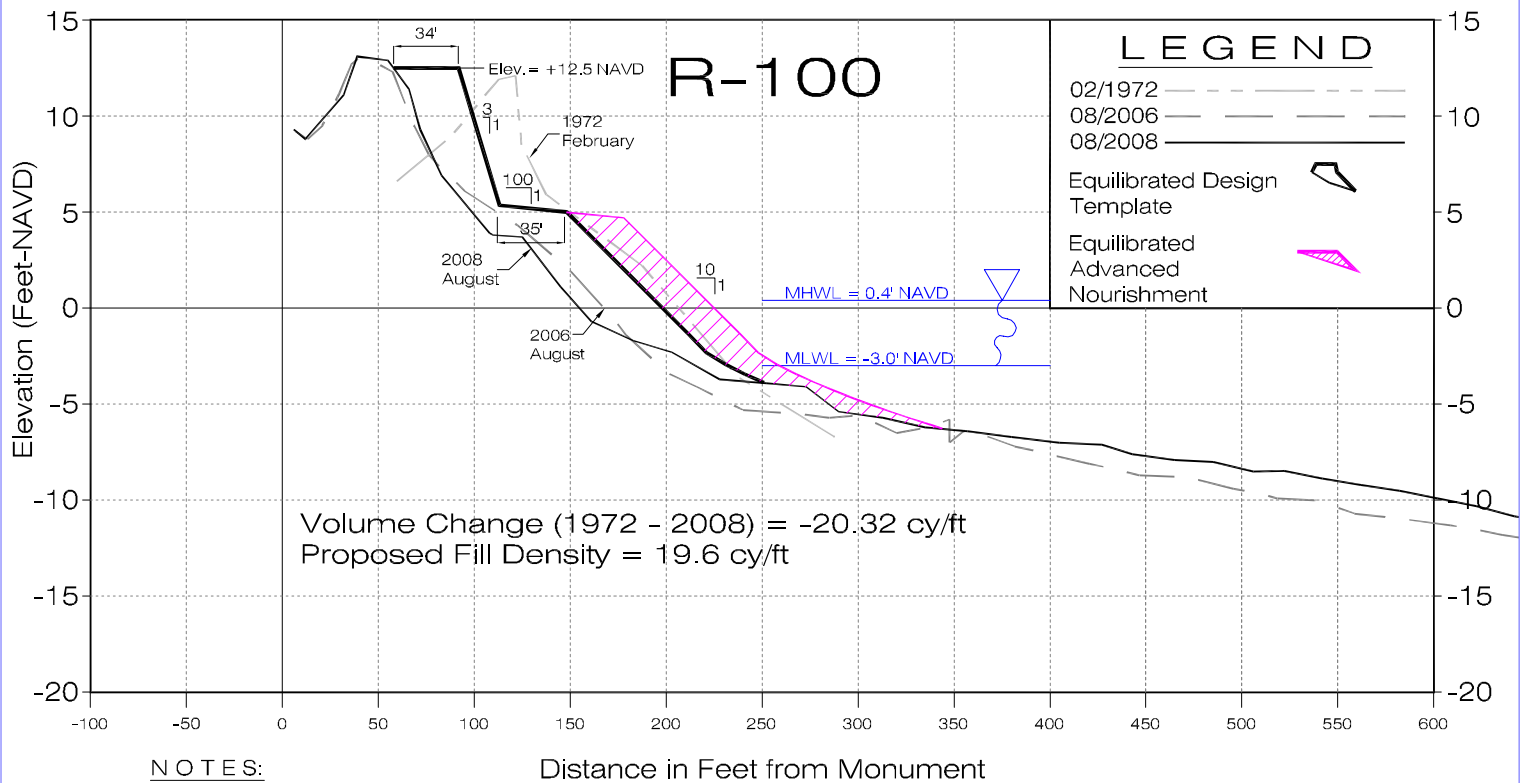
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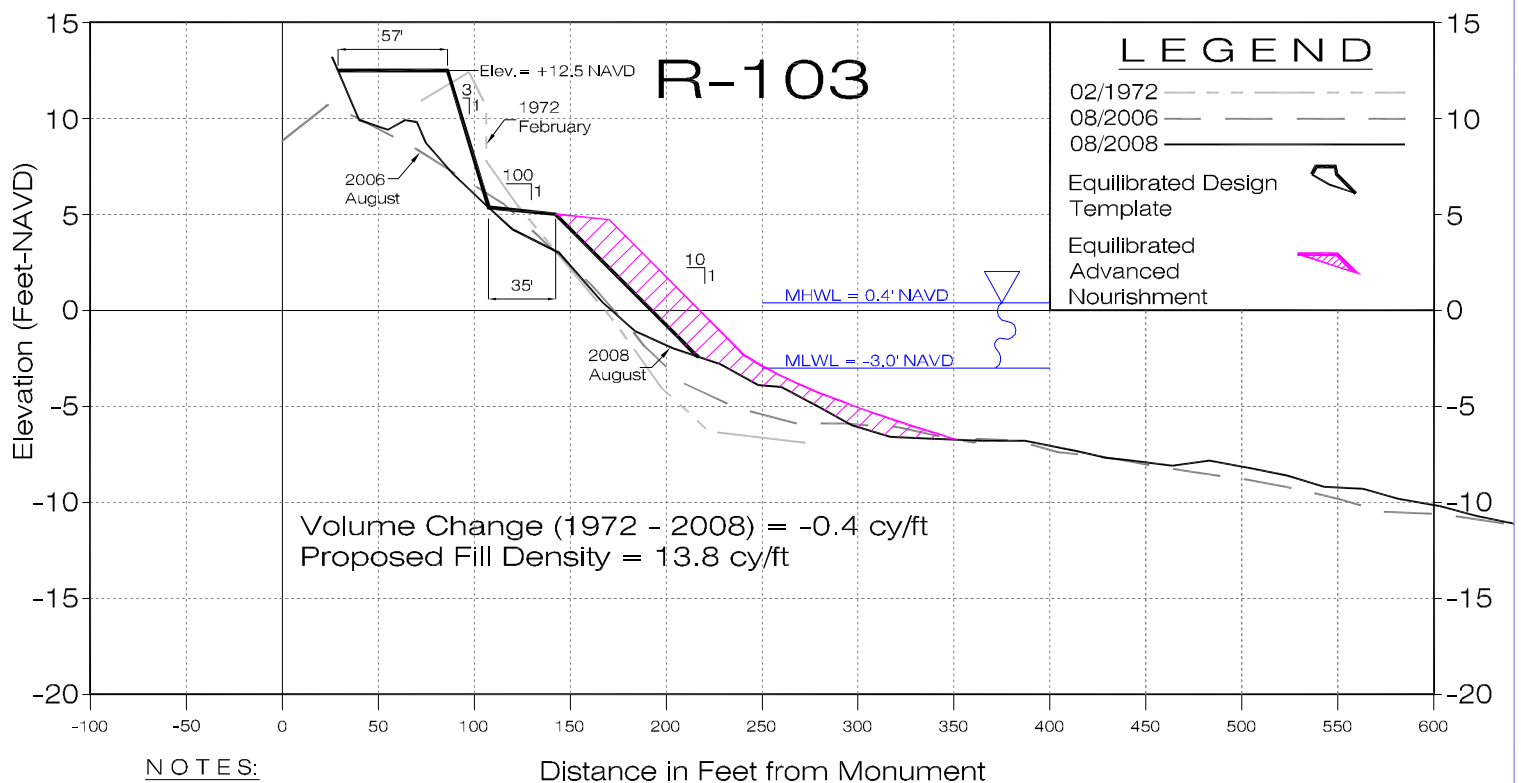
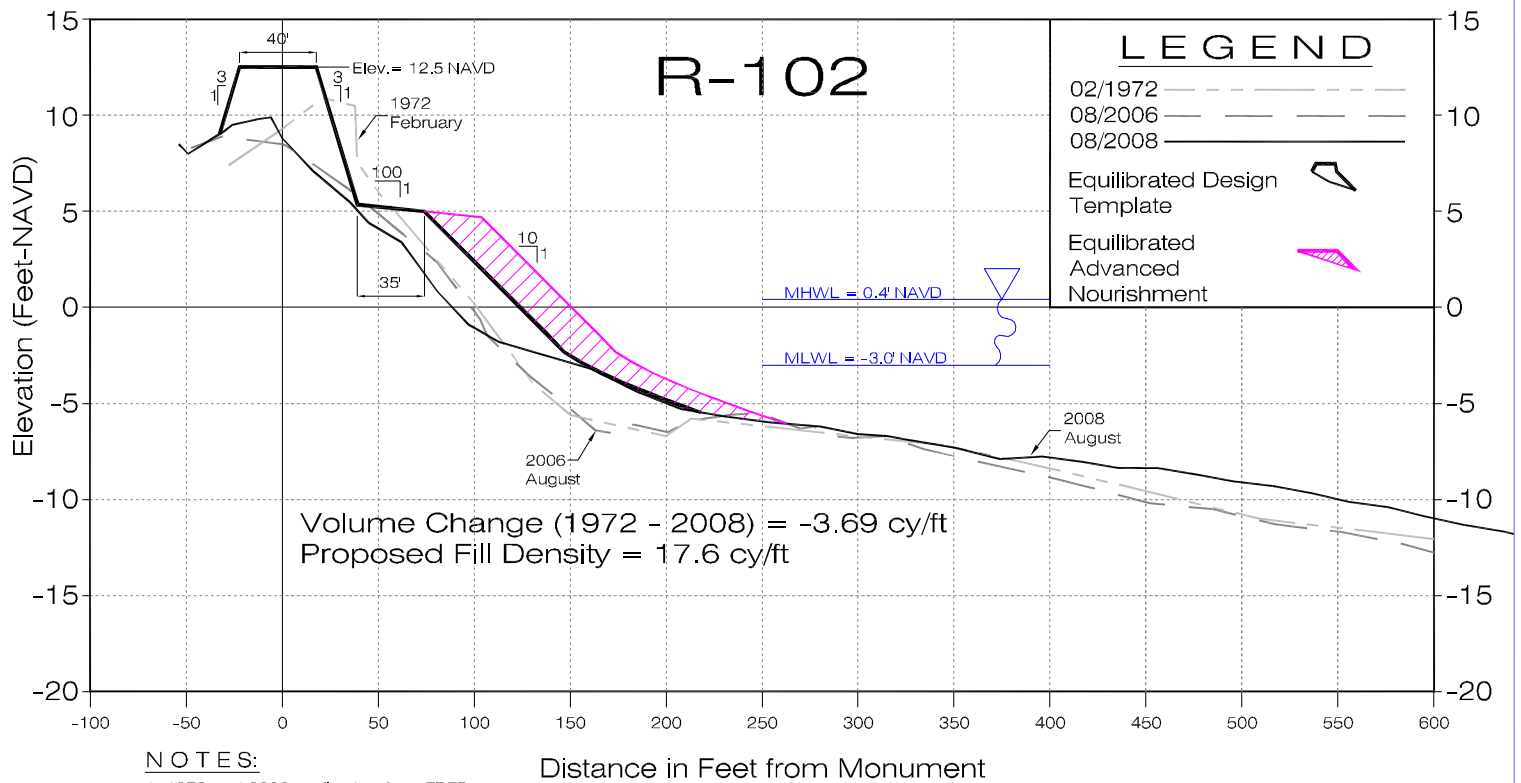
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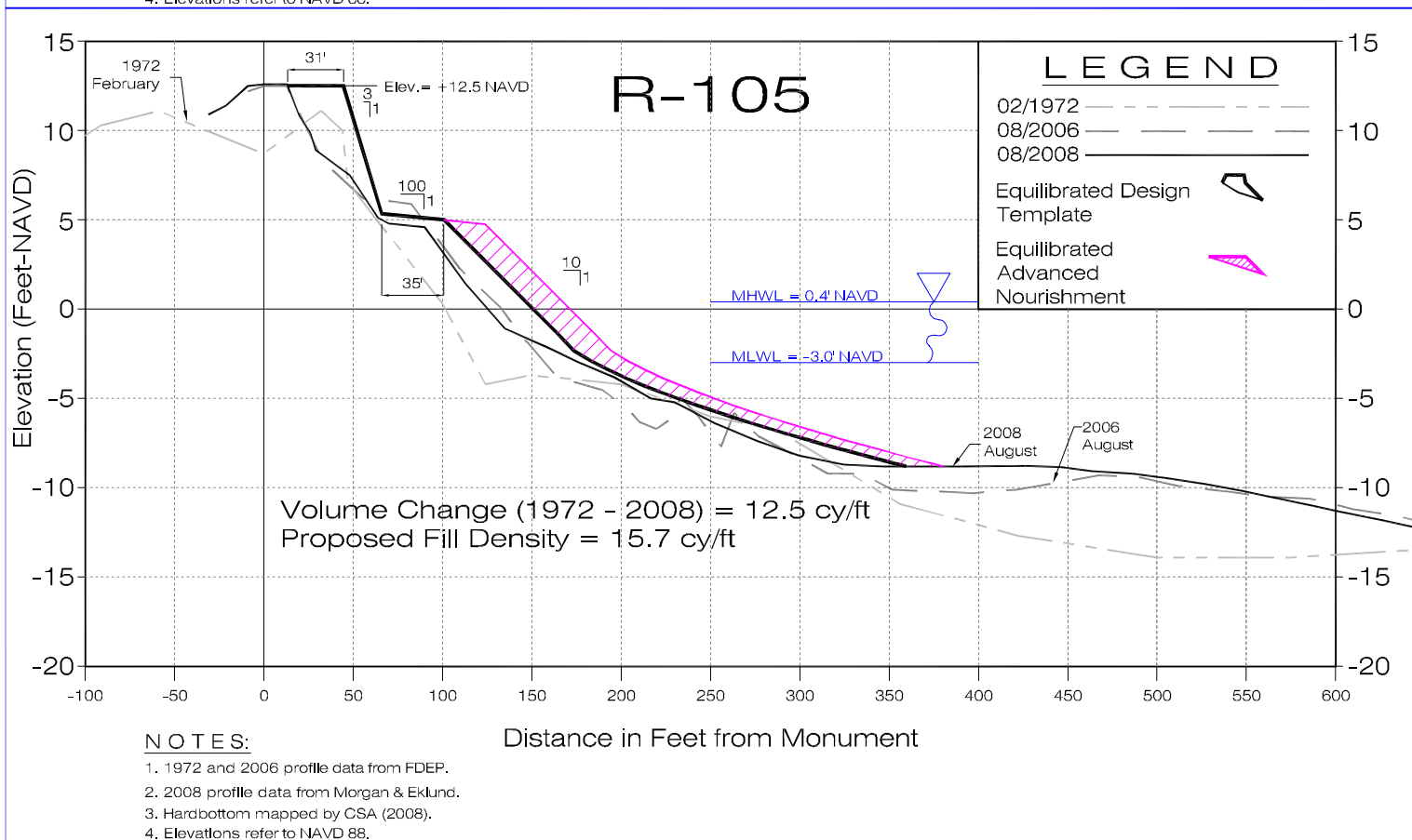
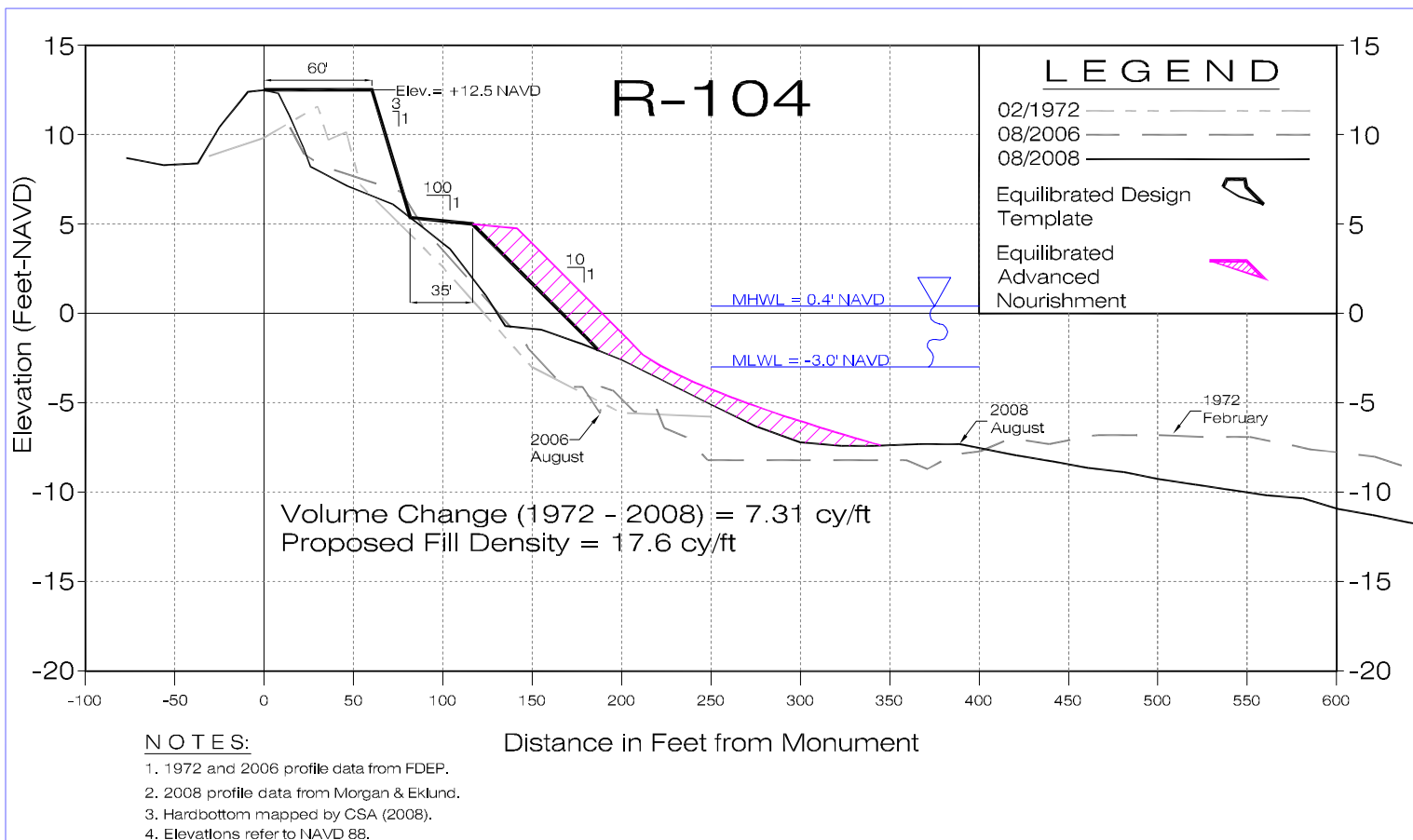
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Beach & Dune Restoration Project
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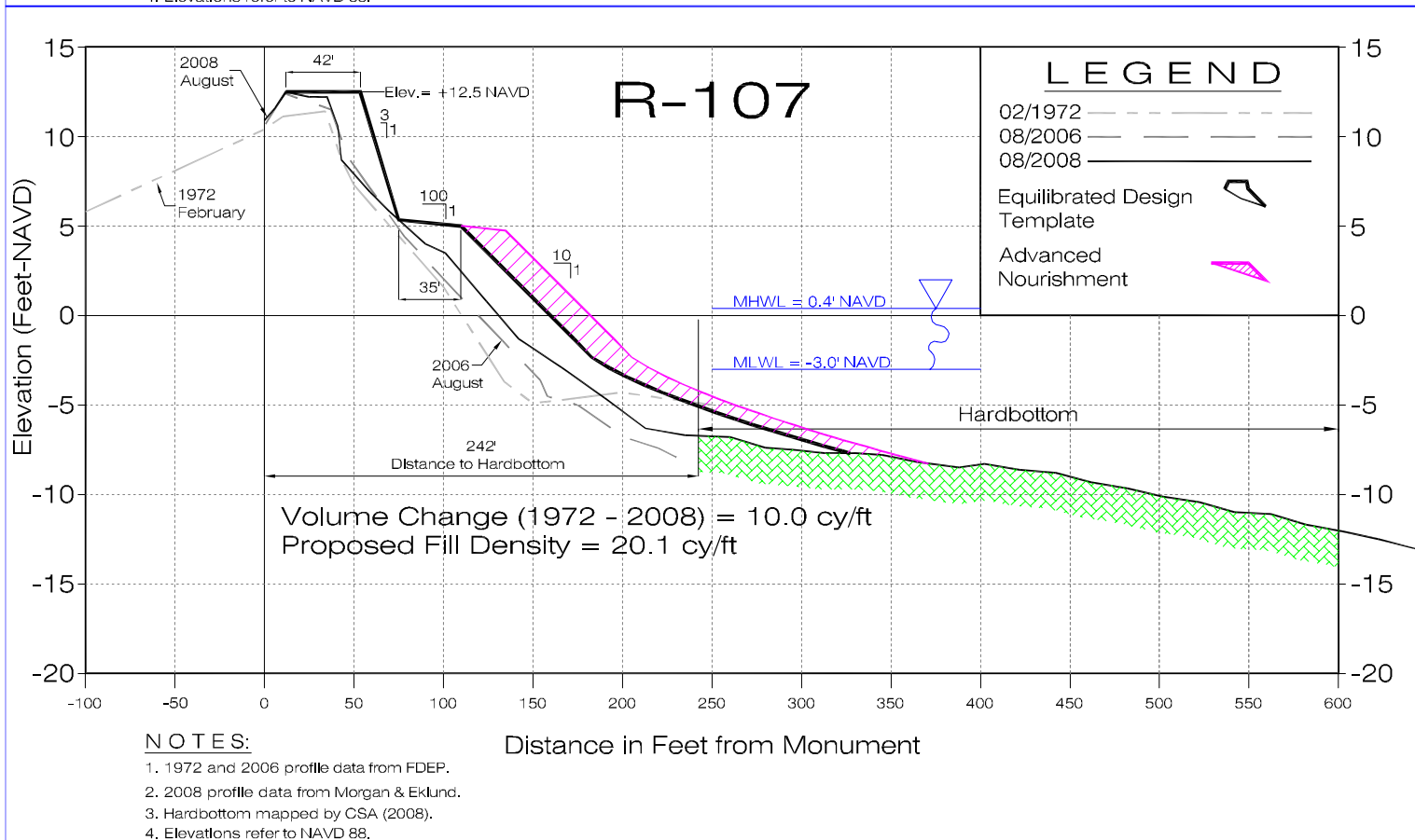
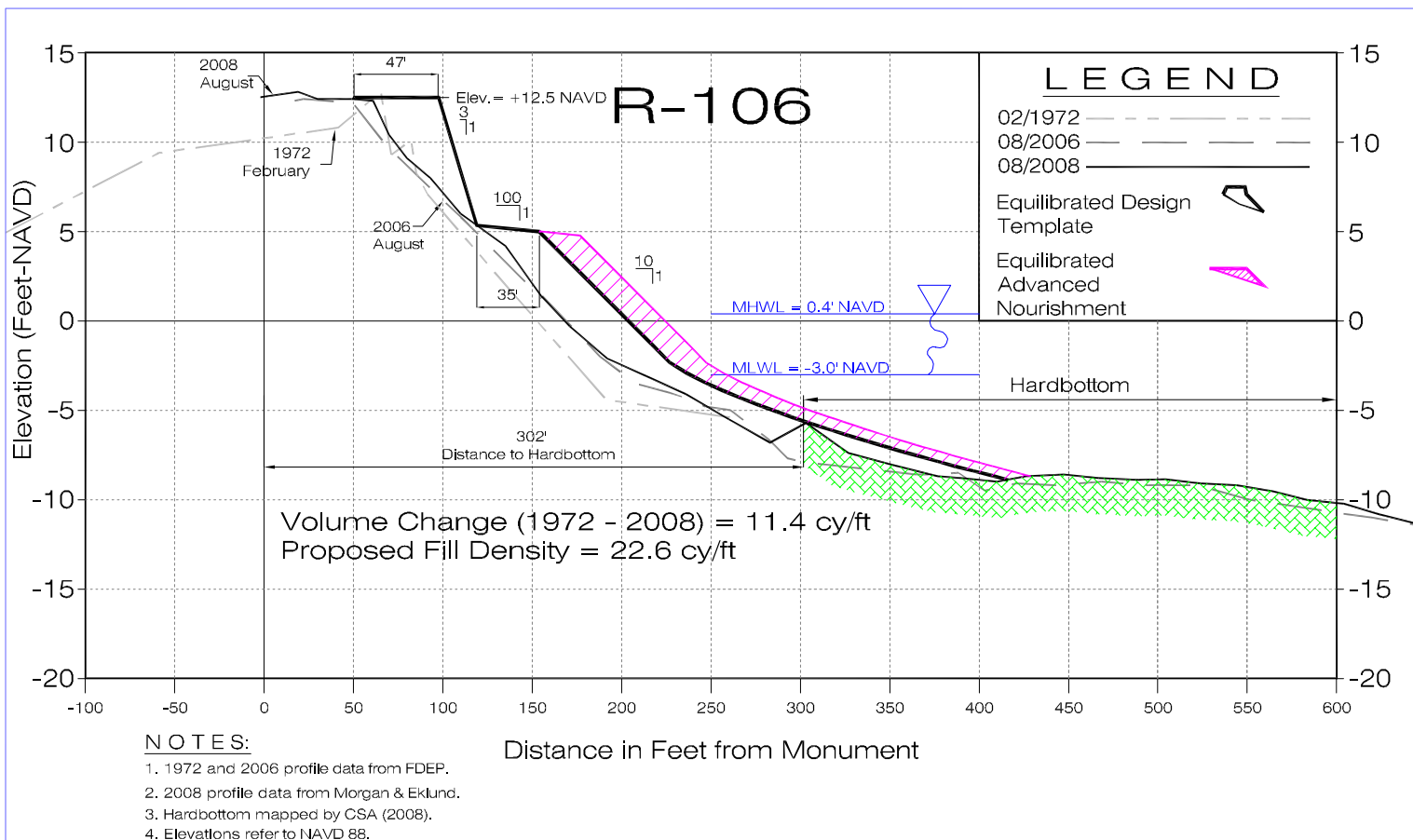
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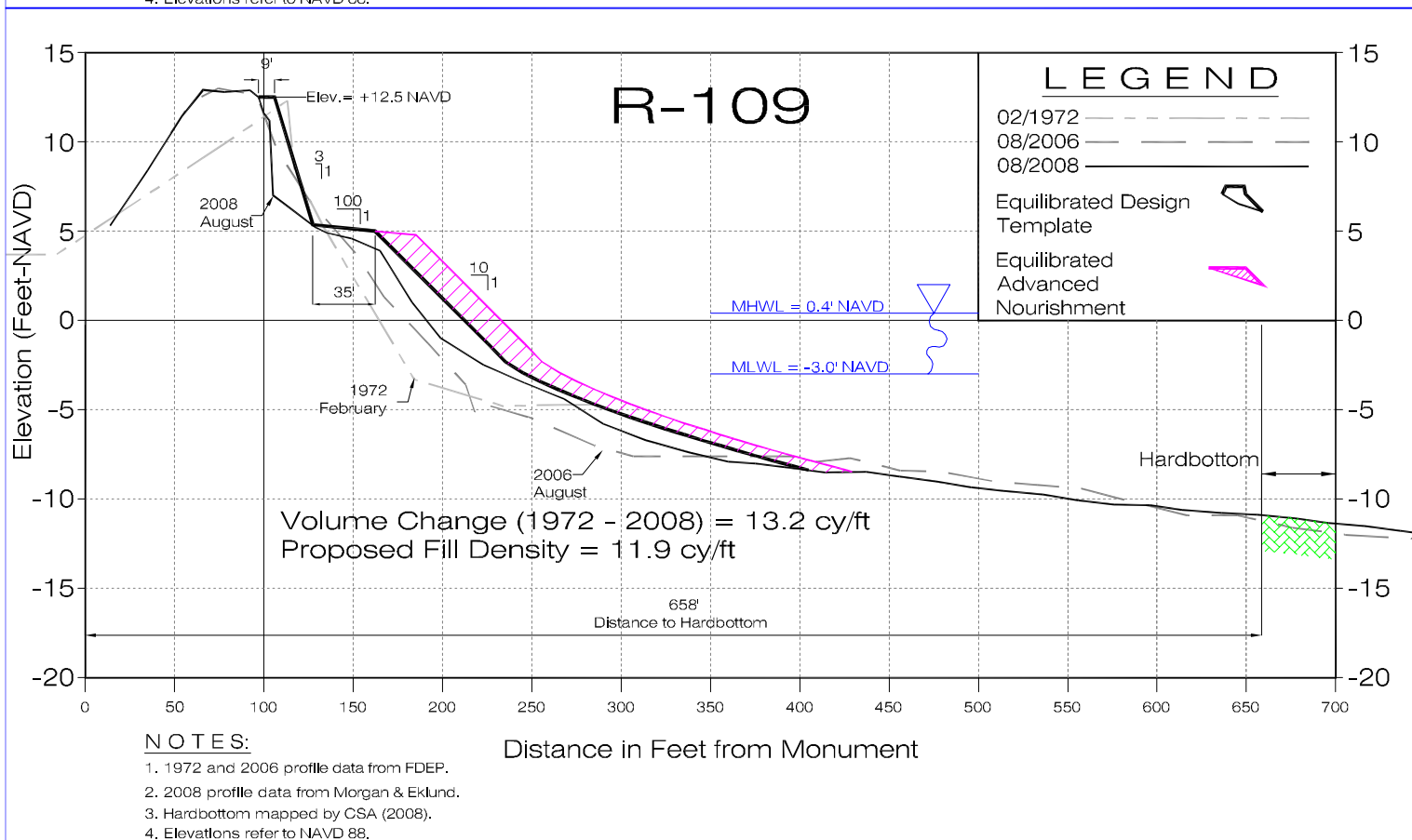
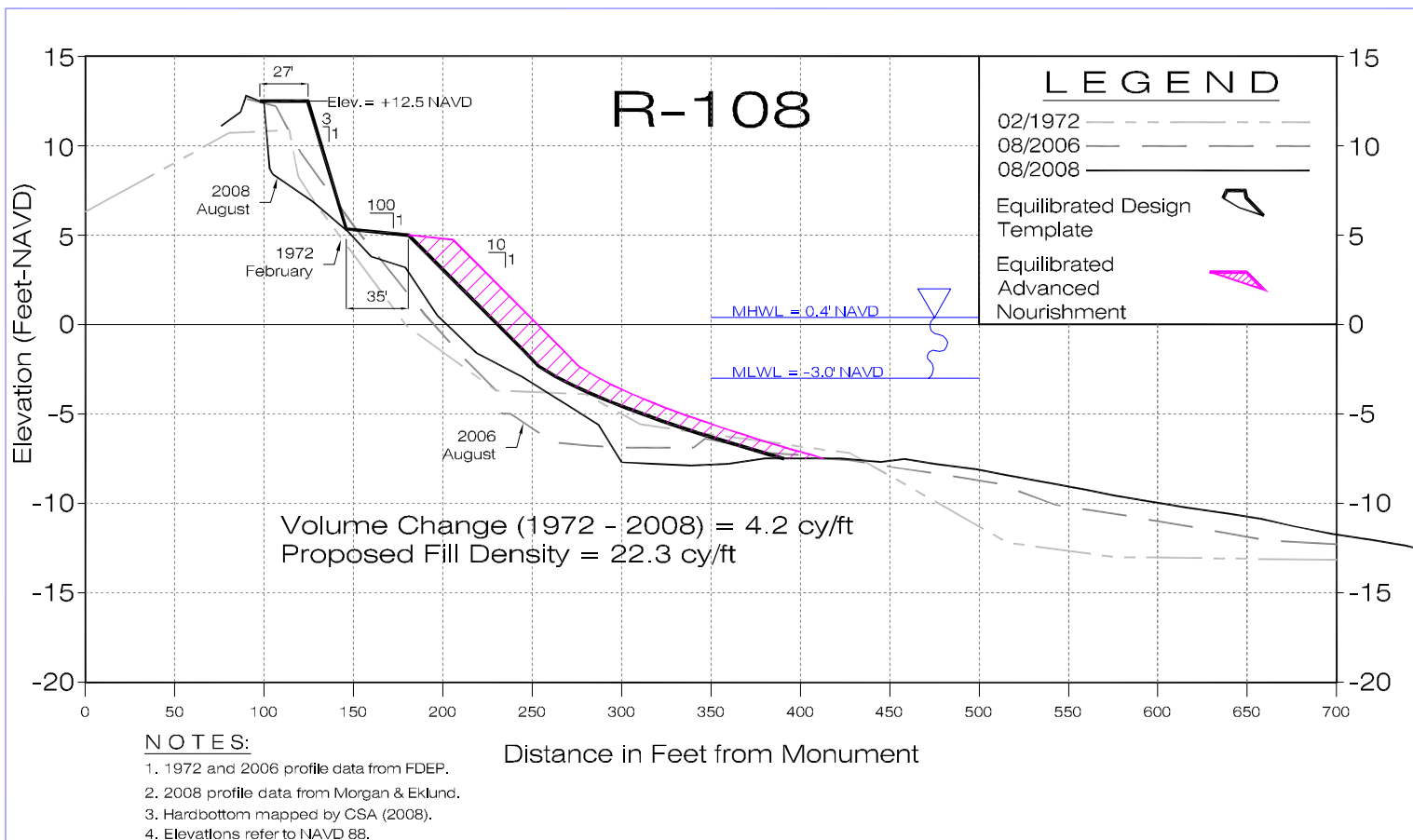
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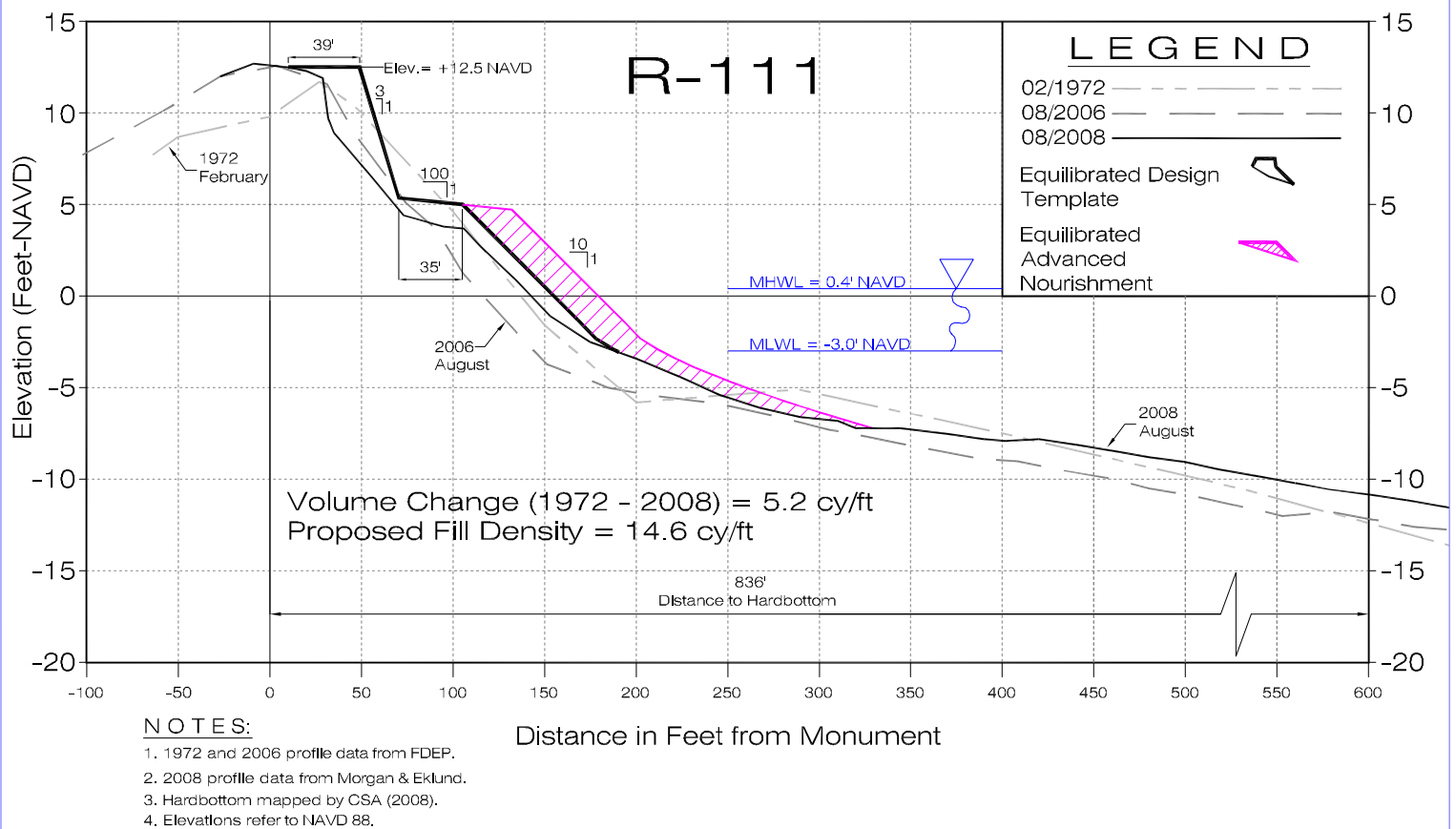
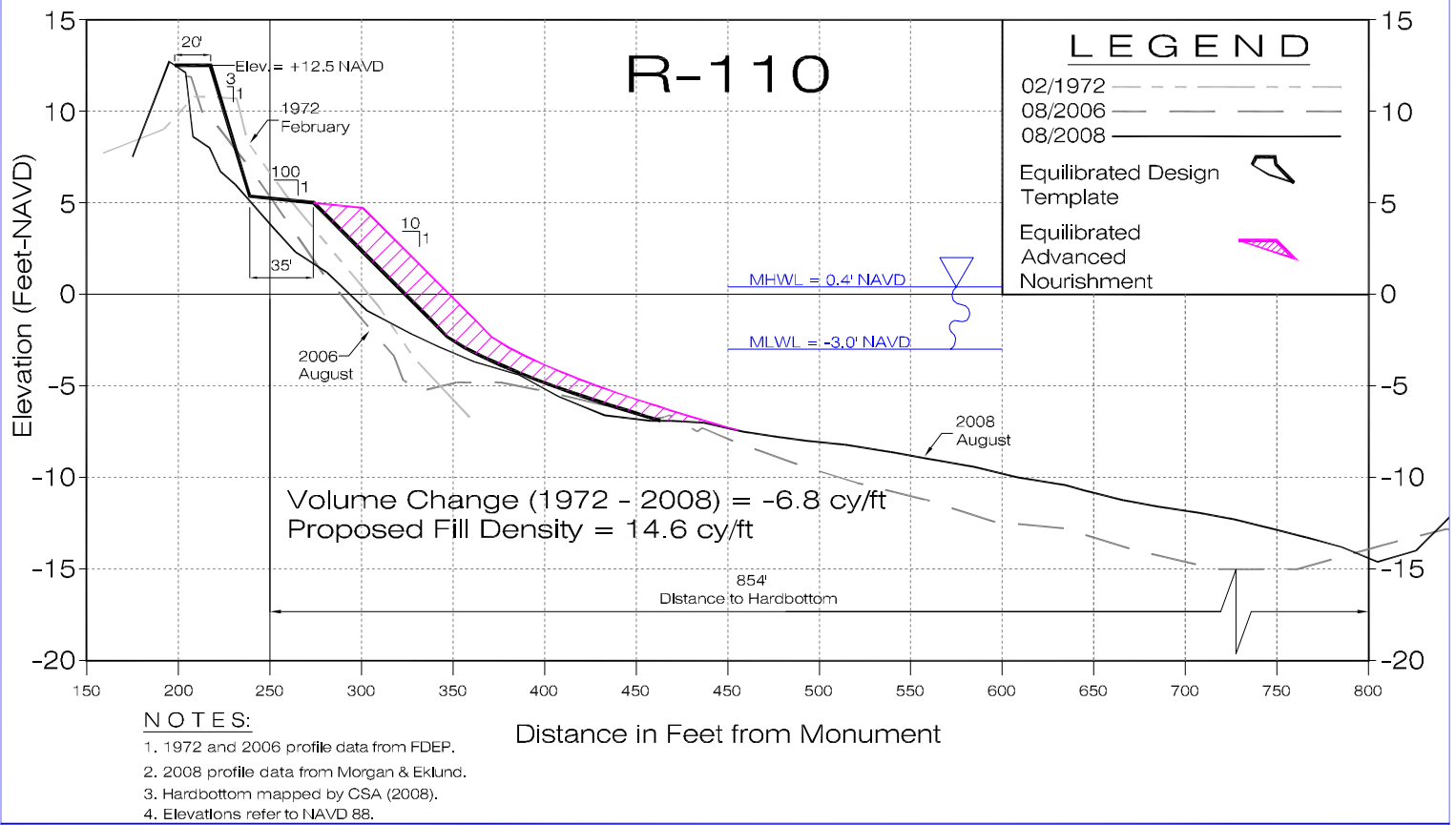
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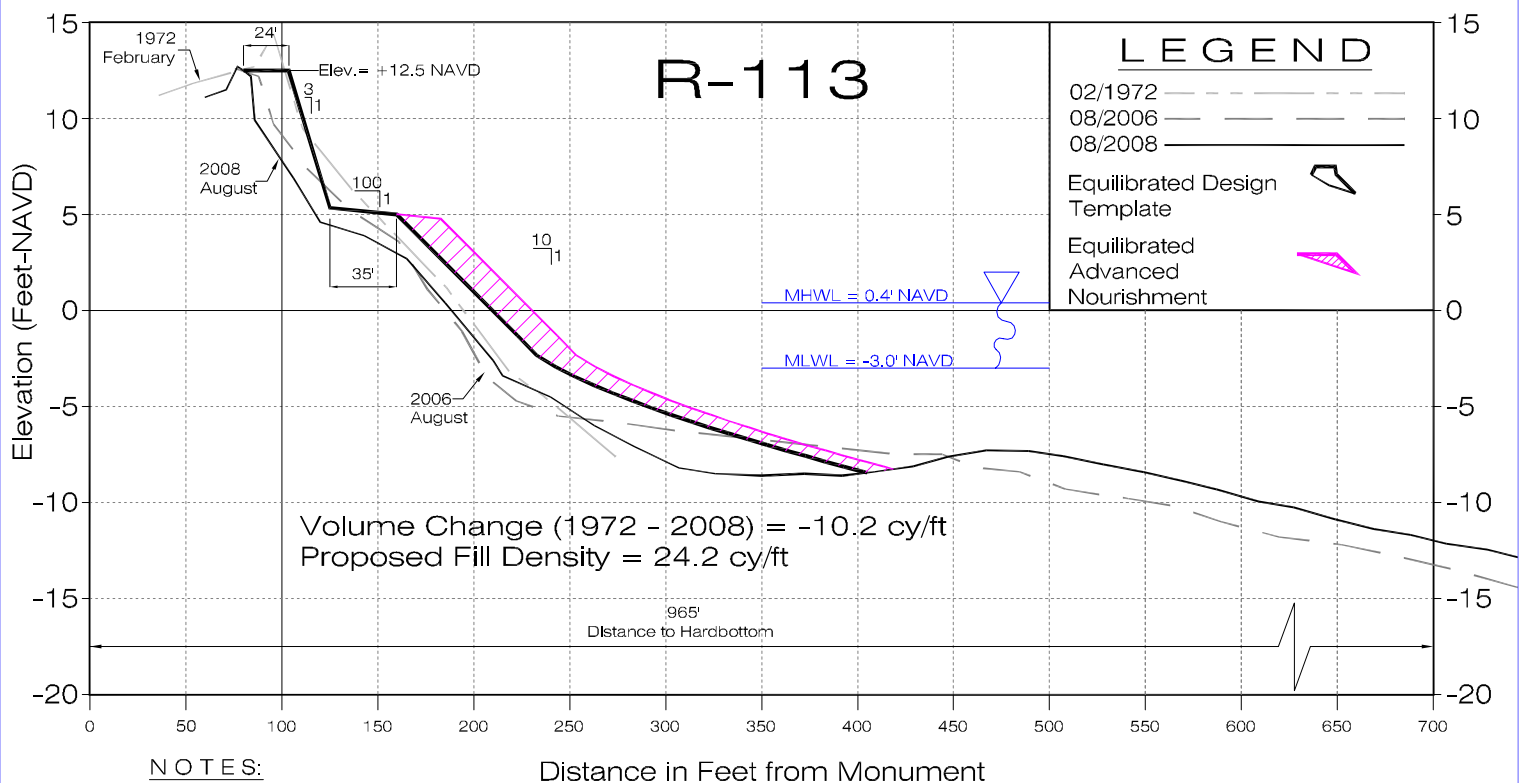
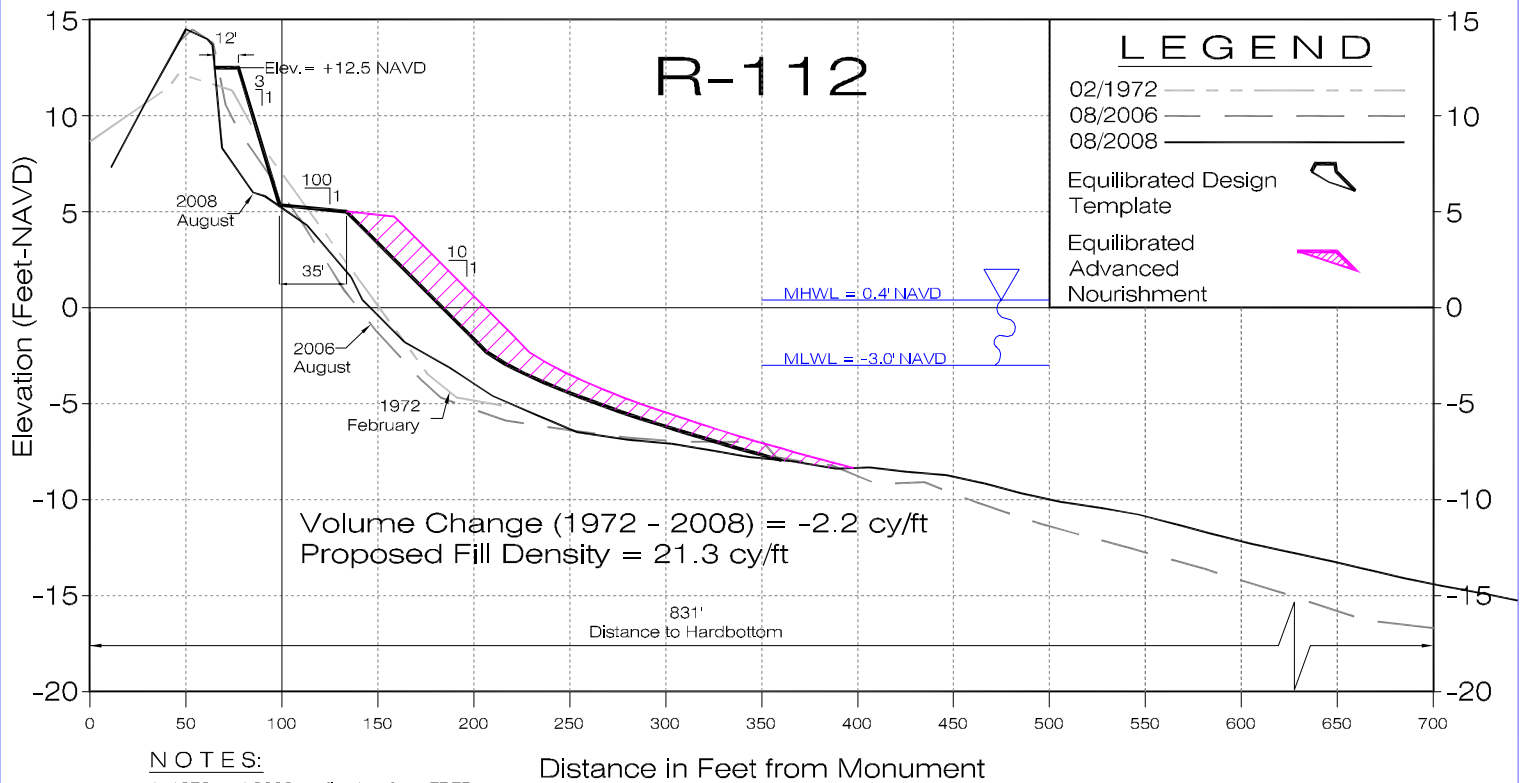
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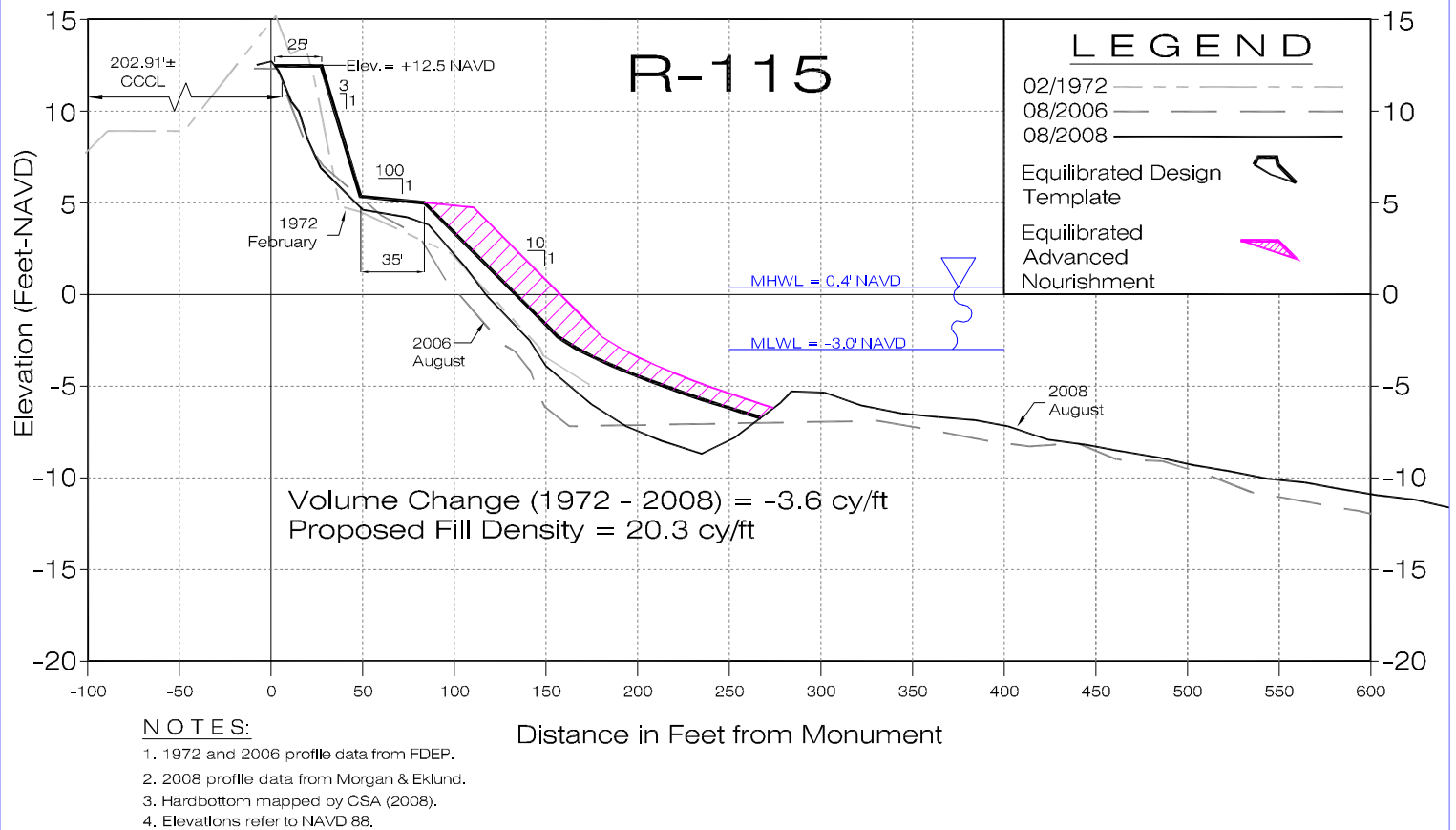
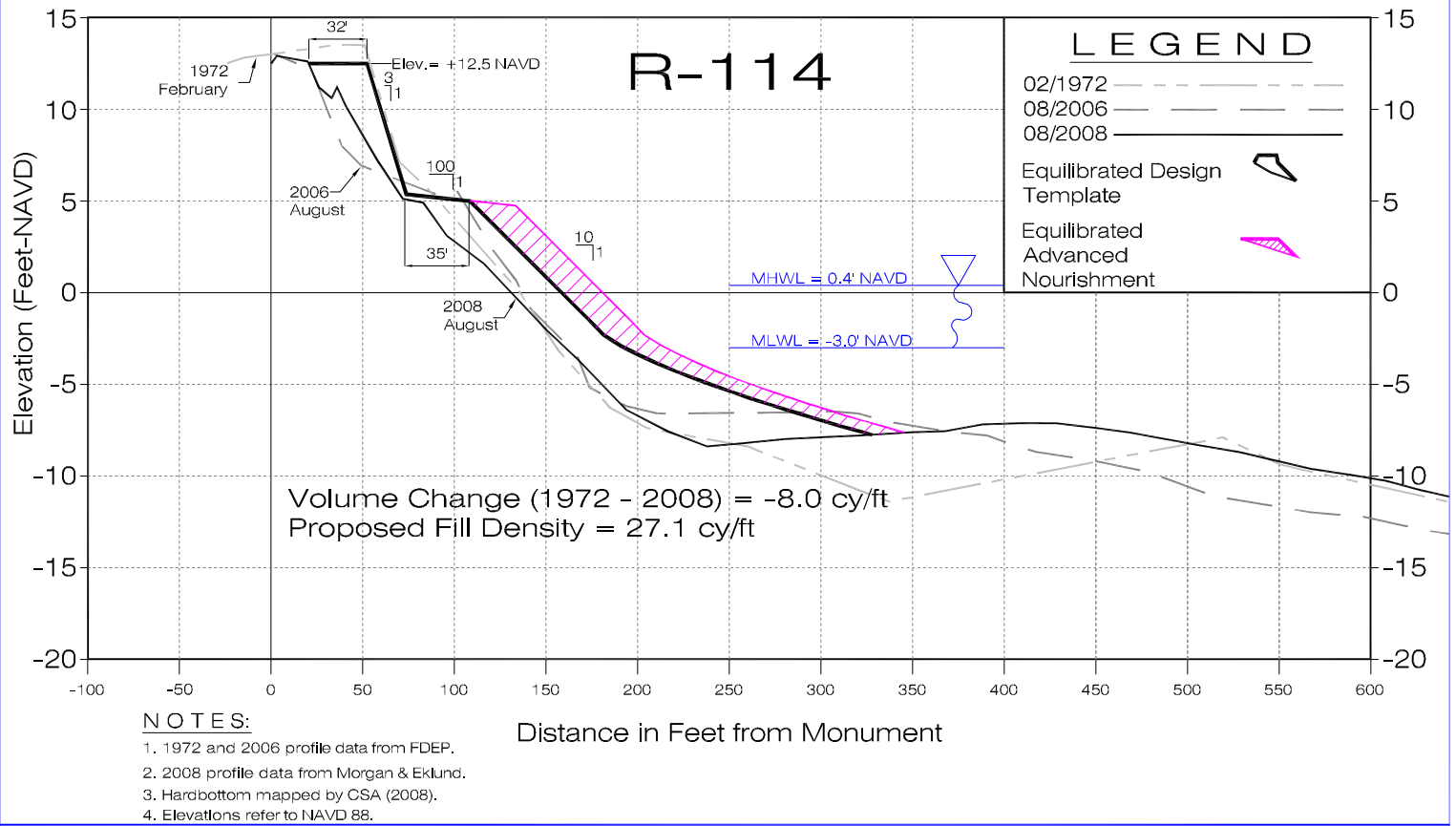
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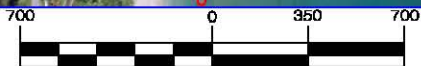
OF 14 SHEETS

JOB NO.

24360.06

SUB-APPENDIX D4

SOUTH COUNTY BEACHES 70' BERM



Legend

- Proposed Upland Limits of Fill
- Proposed Seaward Edge of the Top of Dune
- Existing Mean High Water Line (MHWL)
- Proposed Seaward Edge of Top of Berm
- Proposed Mean High Water Line (MHWL)
- Equilibrated Toe of Fill of the Advanced Nourishment
- Limits of Hardbottom

NOTES:

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Plan View - 70' Berm Fill Area

Beach & Dune Restoration Project
St. Lucie County, Florida

ENGR

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DATE

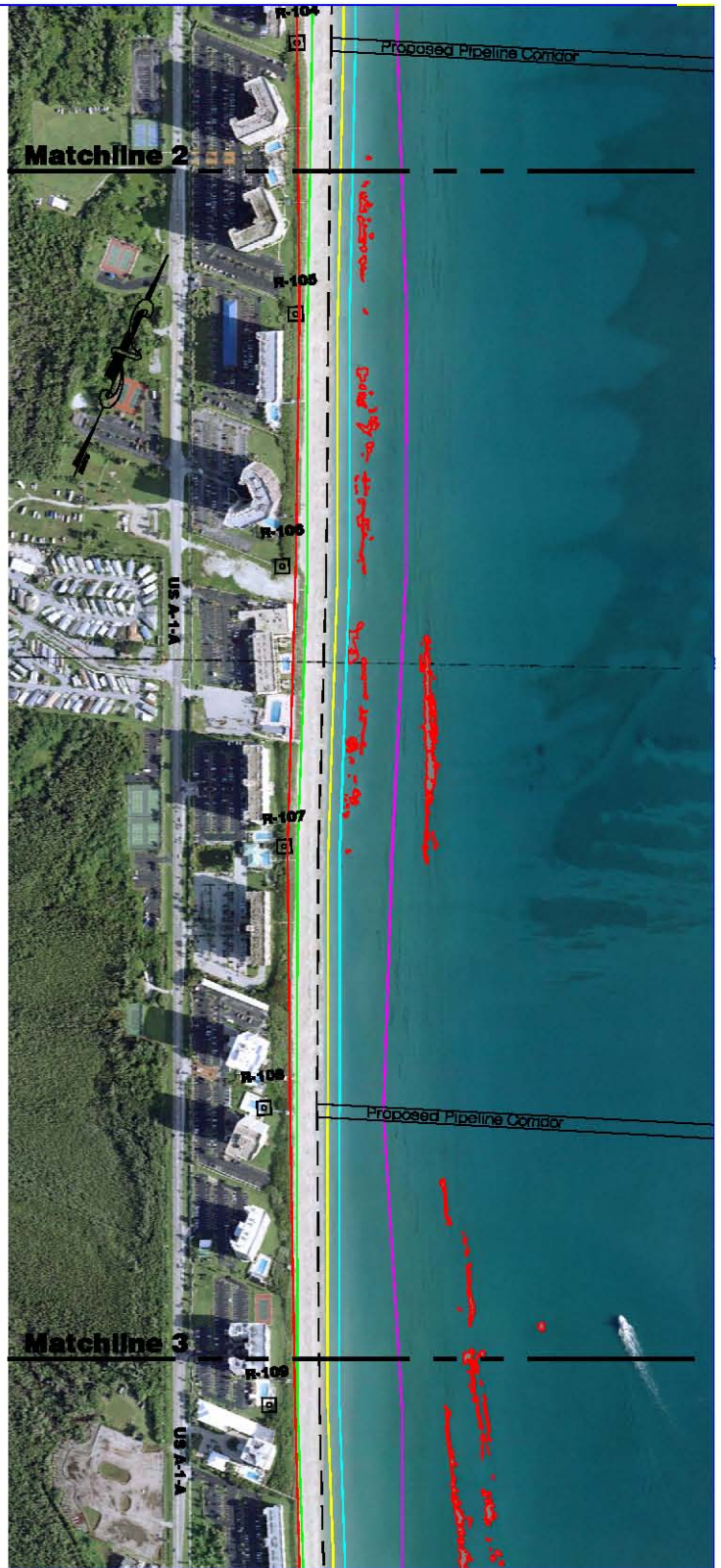
02/05/09

SHEET 1

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24360.06



Legend

- Proposed Upland Limits of Fill
- Proposed Seaward Edge of the Top of Dune
- Existing Mean High Water Line (MHWL)
- Proposed Seaward Edge of Top of Berm
- Proposed Mean High Water Line (MHWL)
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Plan View - 70' Berm Fill Area

Beach & Dune Restoration Project
St. Lucie County, Florida

ENGR

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LAST REVISION

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AQN

DATE

02/05/09

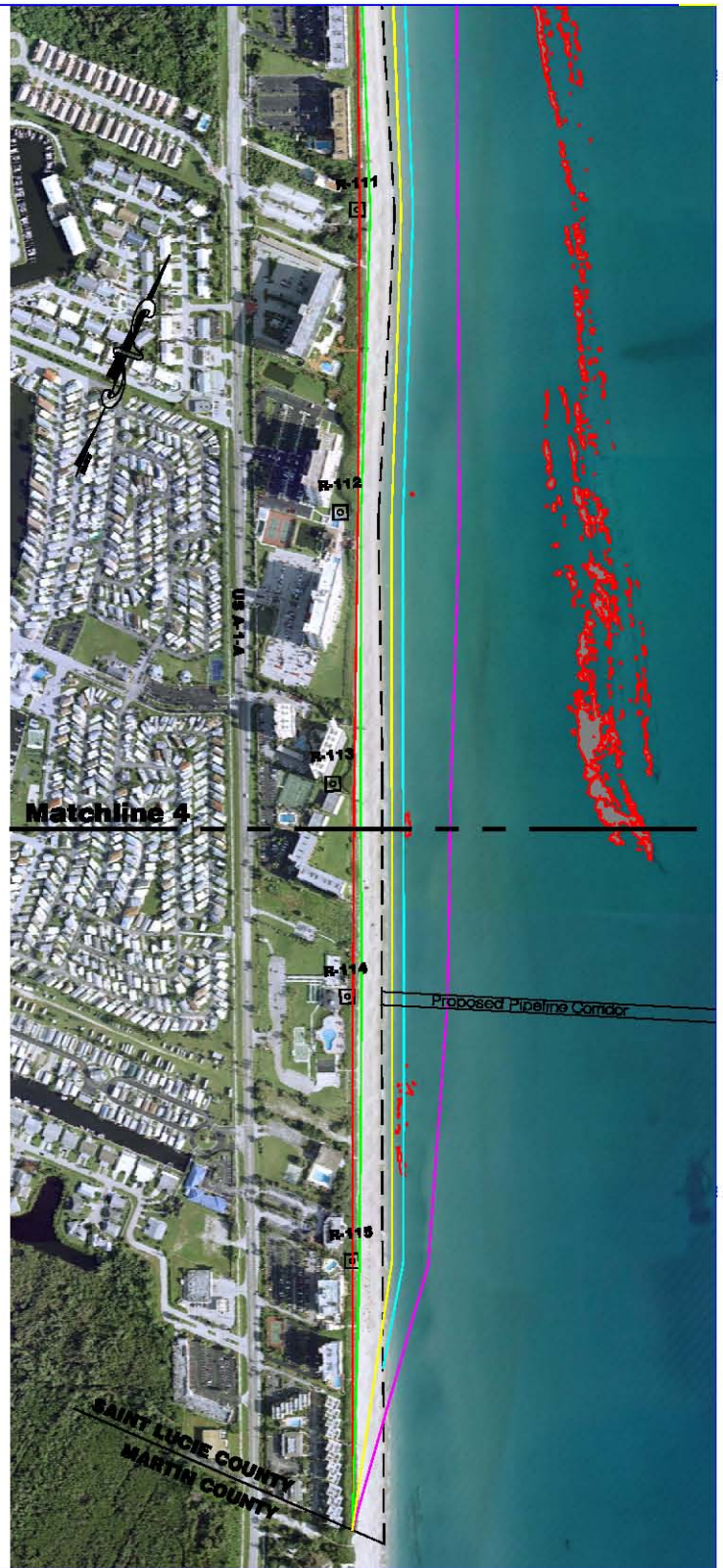
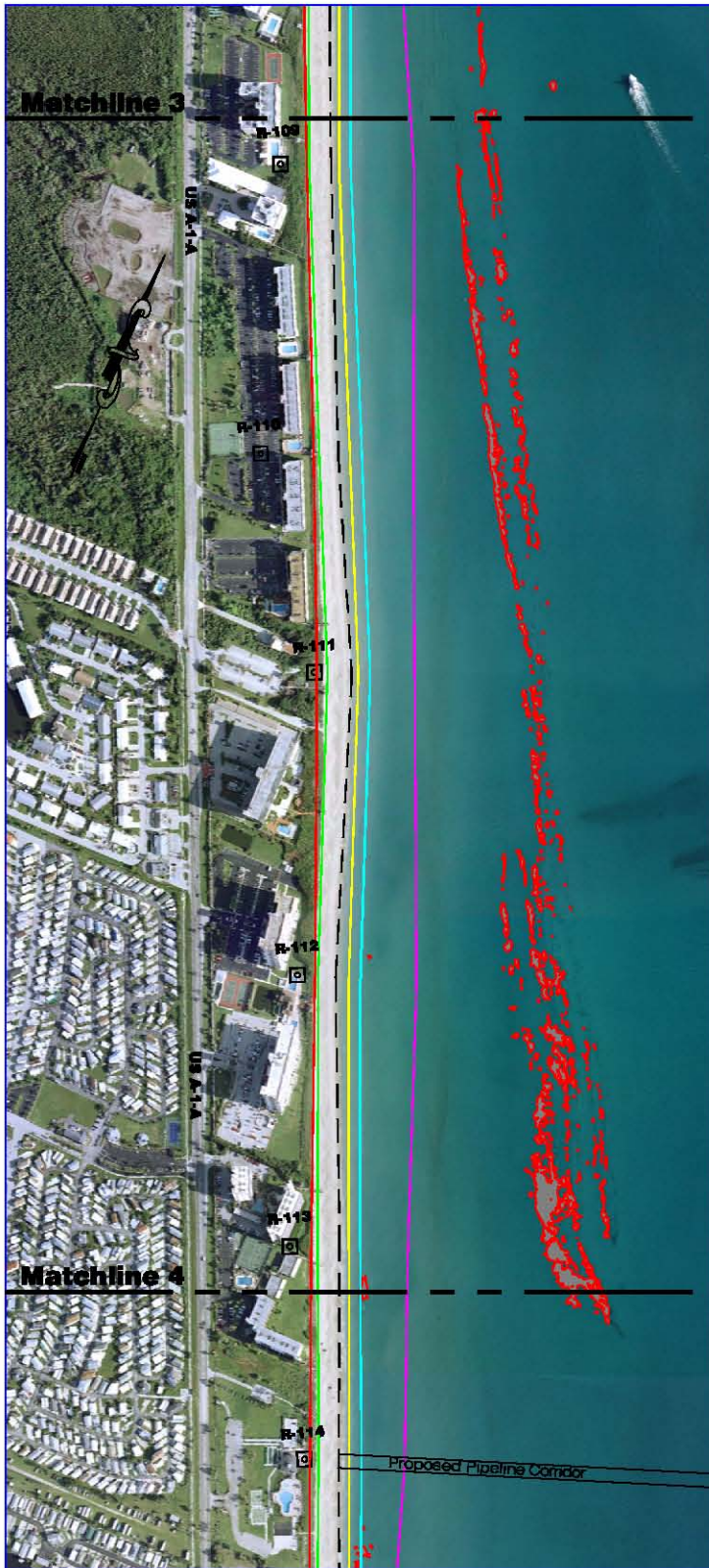
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OF 13 SHEETS

JOB NO.

24360.06



Legend

- Proposed Upland Limits of Fill
- Proposed Seaward Edge of the Top of Dune
- Existing Mean High Water Line (MHWL)
- Proposed Seaward Edge of Top of Berm
- Proposed Mean High Water Line (MHWL)
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SCALE IN FEET



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Plan View - 70' Berm Fill Area

Beach & Dune Restoration Project
St. Lucie County, Florida

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AQN

DATE

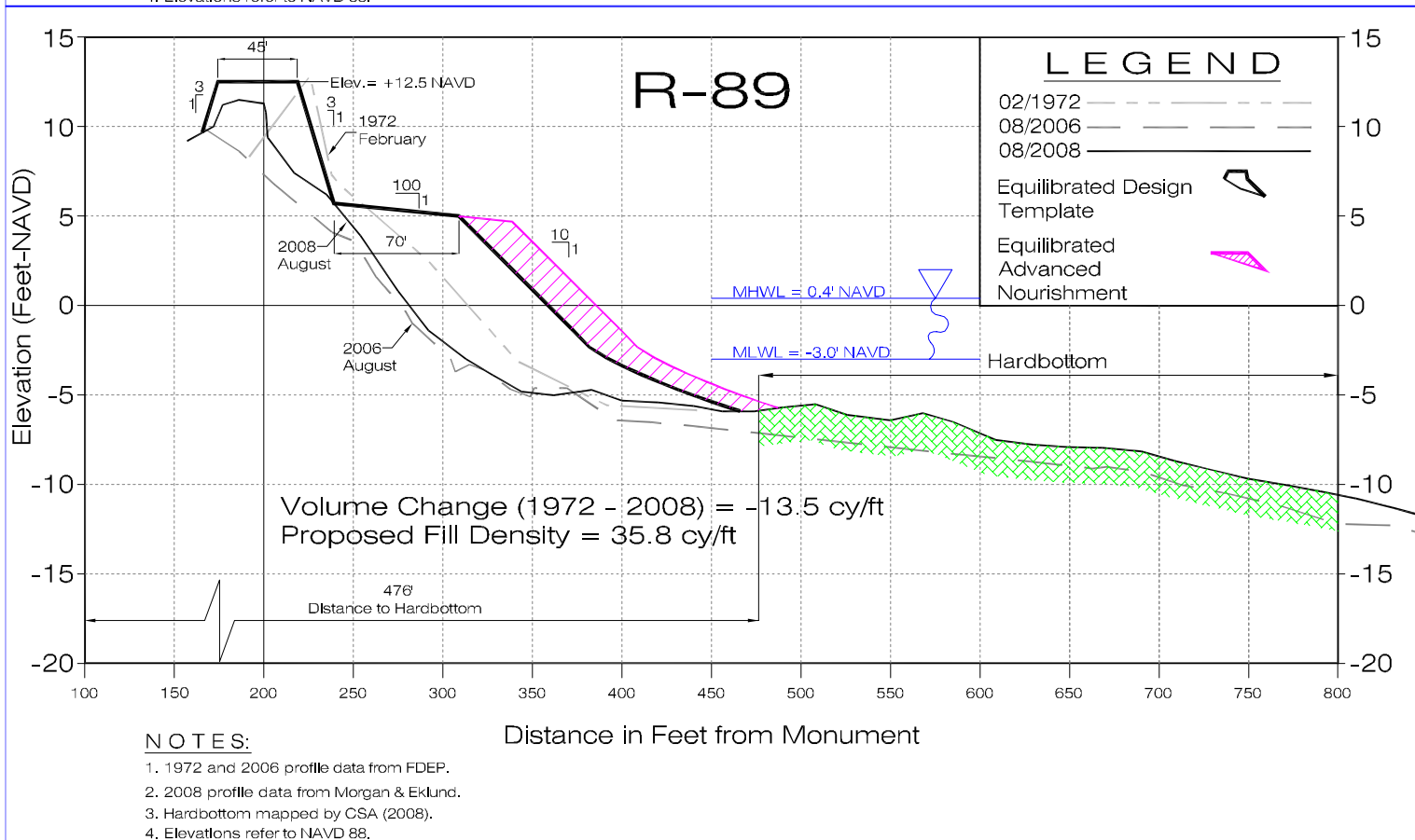
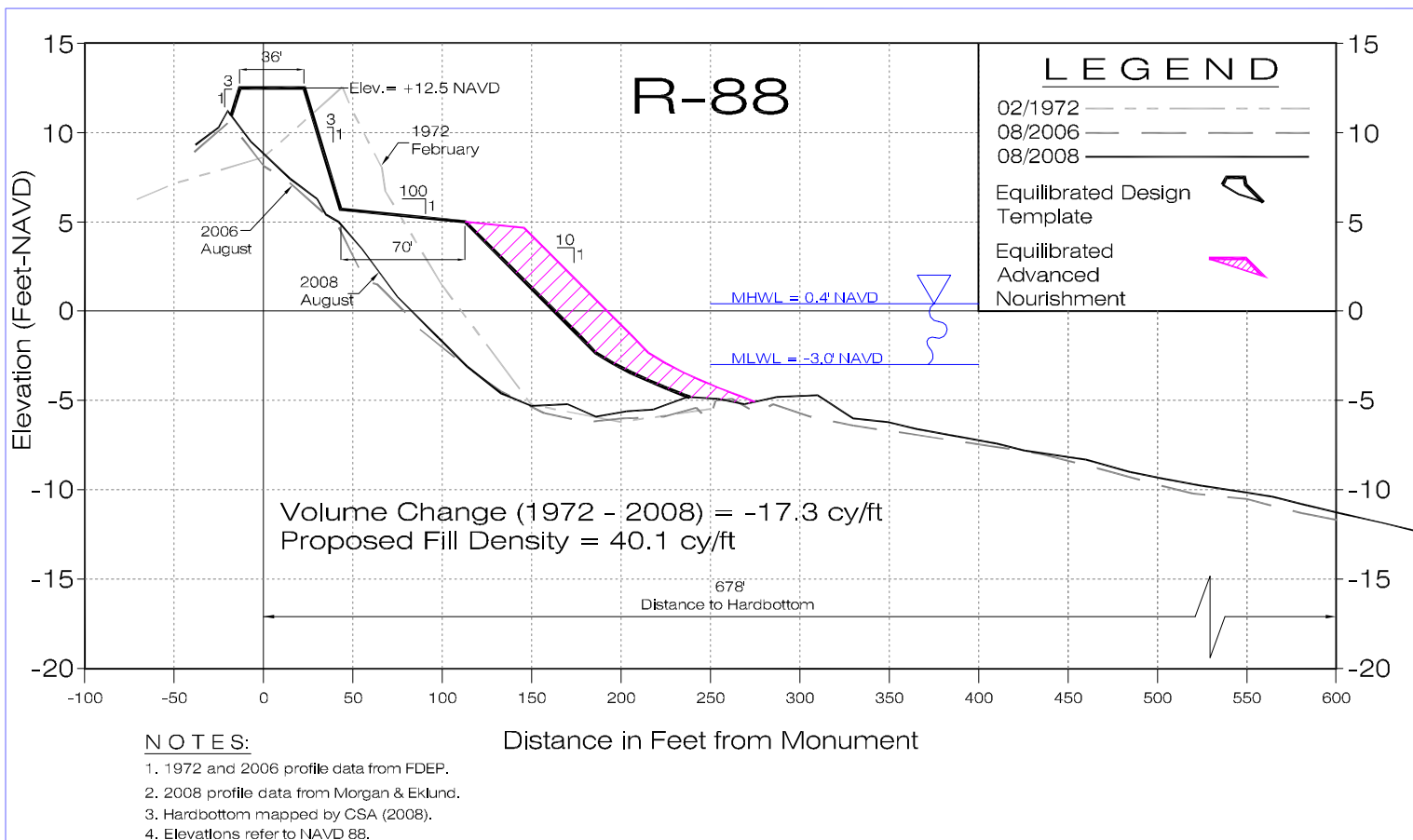
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Profiles - 70' Berm Design Template

Beach & Dune Restoration Project
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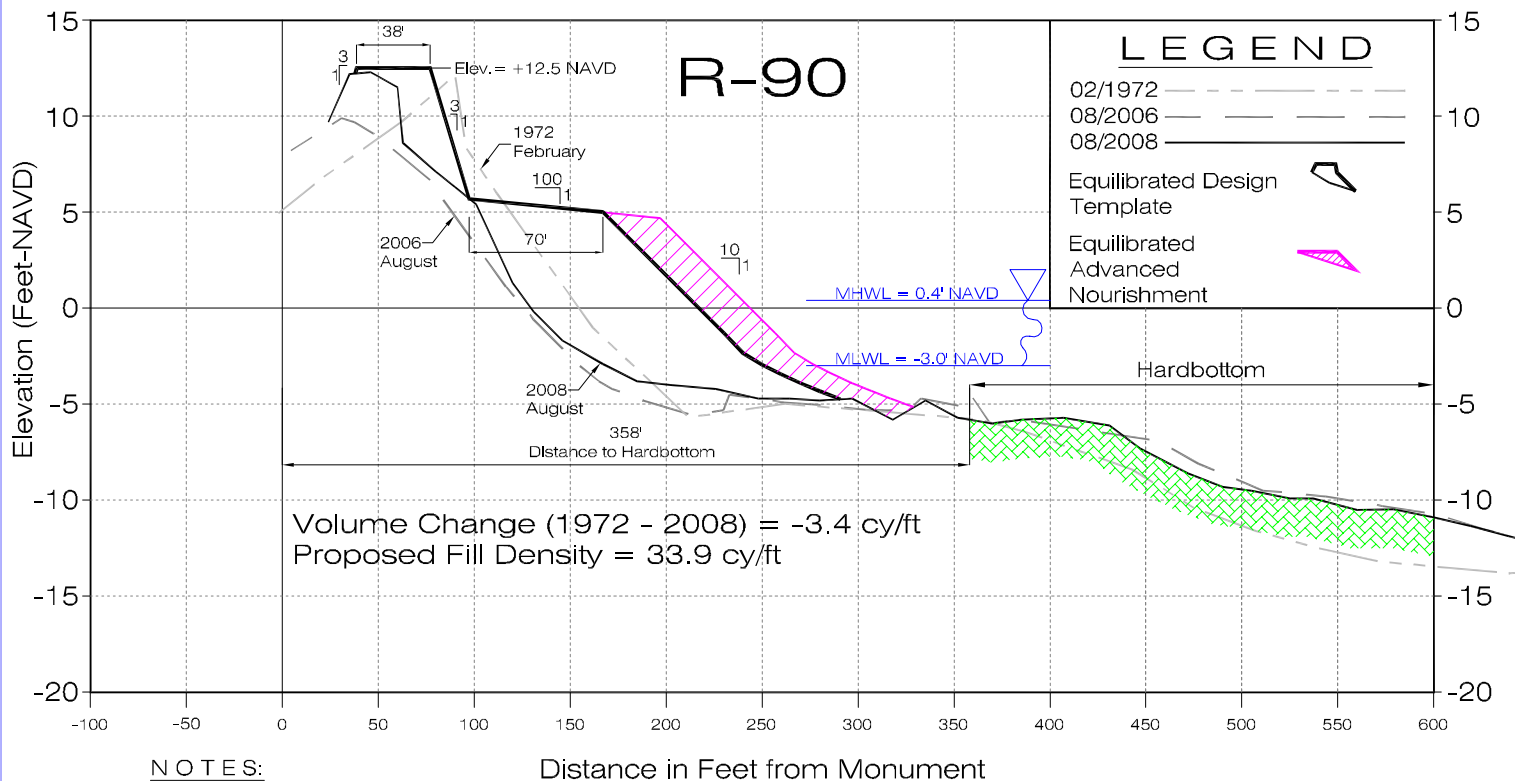
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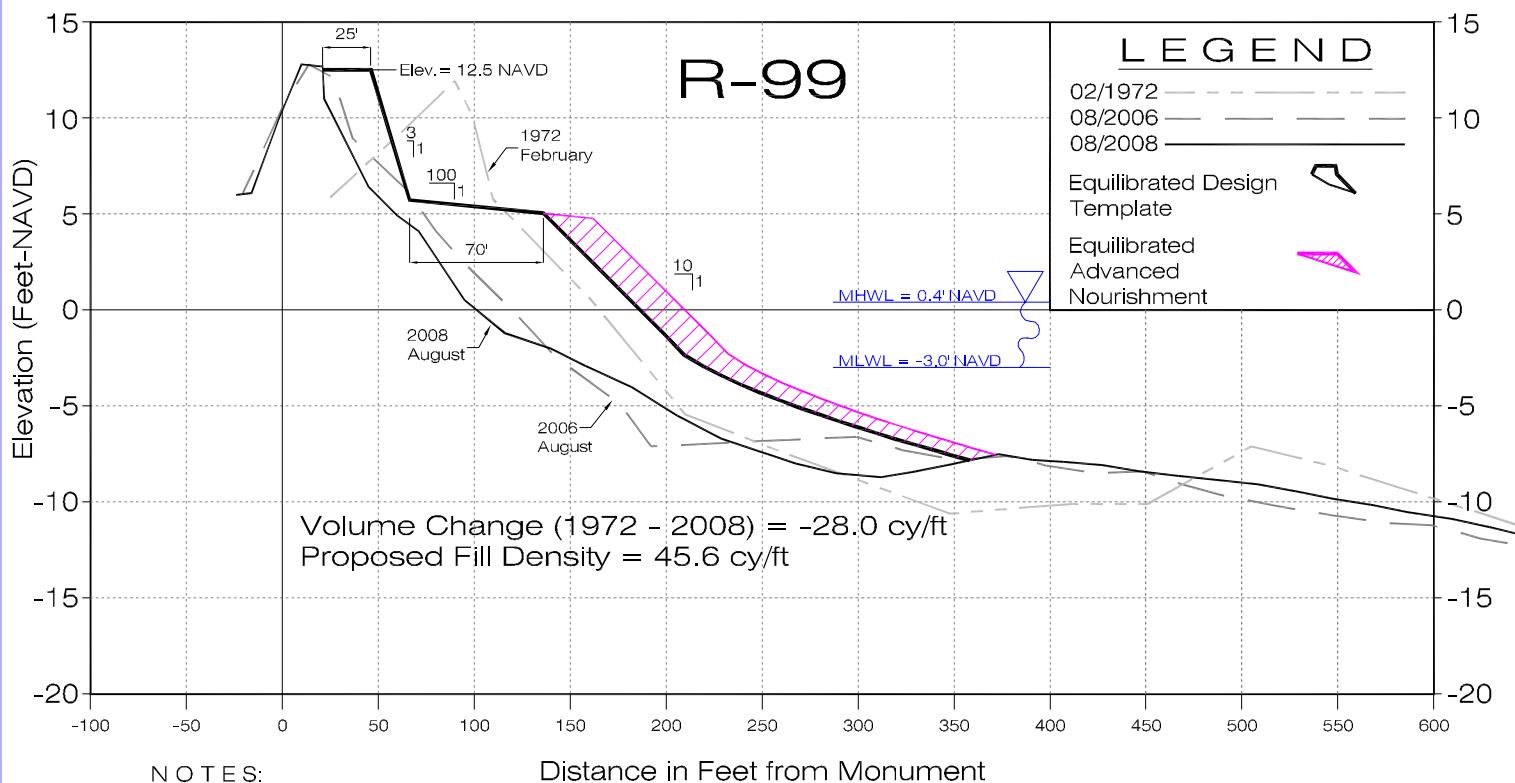
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24360.06



NOTES:

1. 1972 and 2006 profile data from FDEP.
2. 2008 profile data from Morgan & Eklund.
3. Hardbottom mapped by CSA (2008).
4. Elevations refer to NAVD 88.



NOTES:

1. 1972 and 2006 profile data from FDEP.
2. 2008 profile data from Morgan & Eklund.
3. Hardbottom mapped by CSA (2008).
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Beach & Dune Restoration Project
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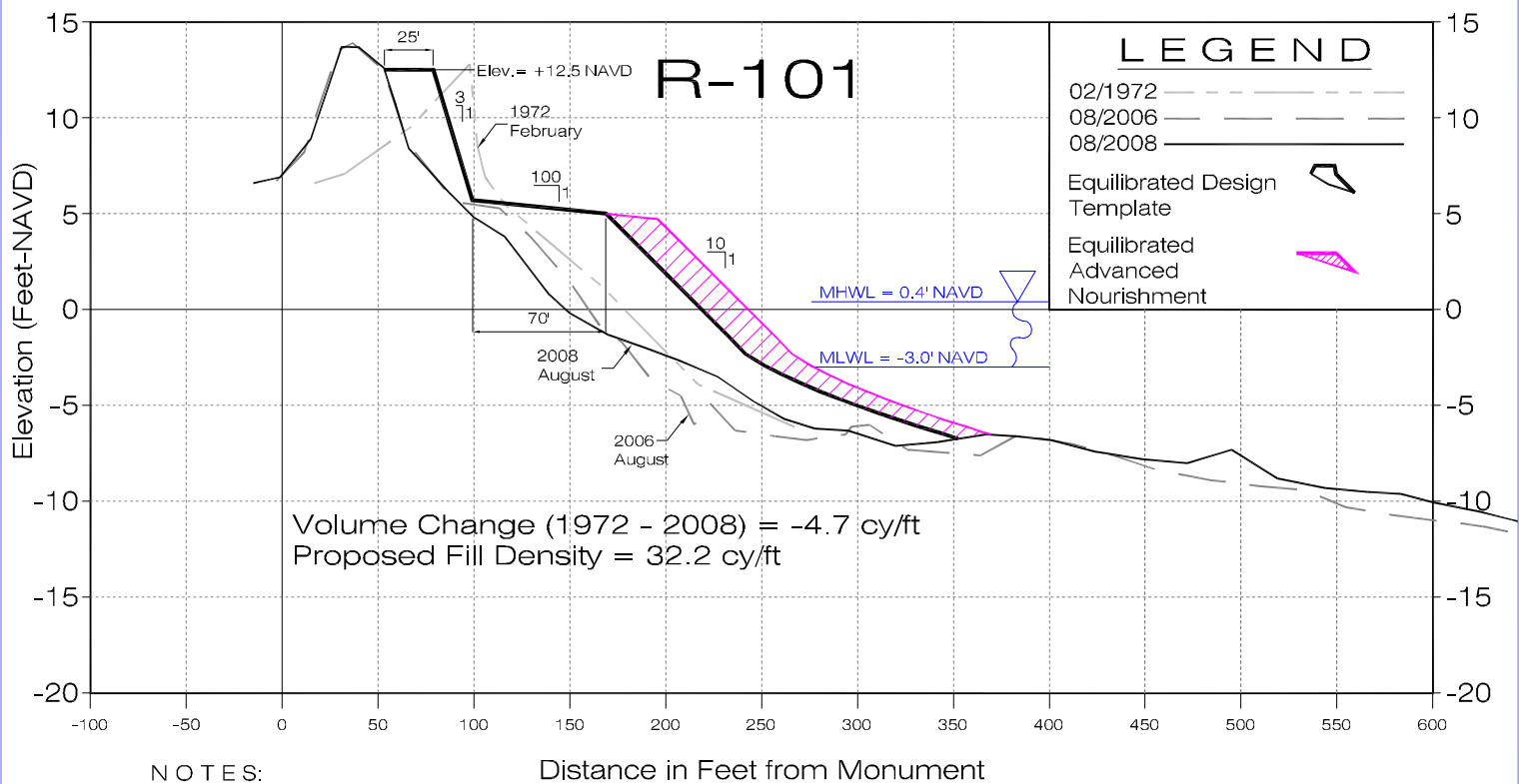
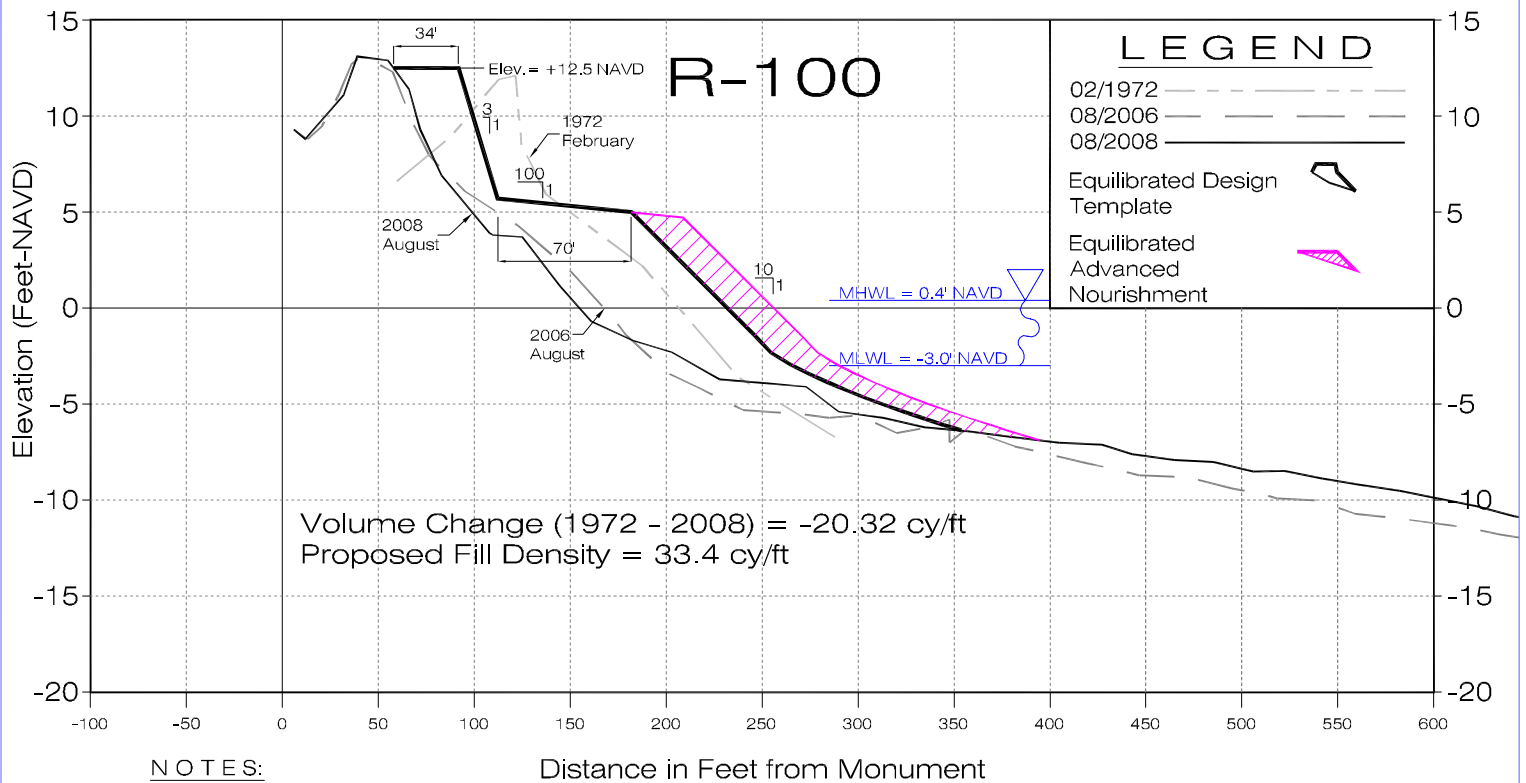
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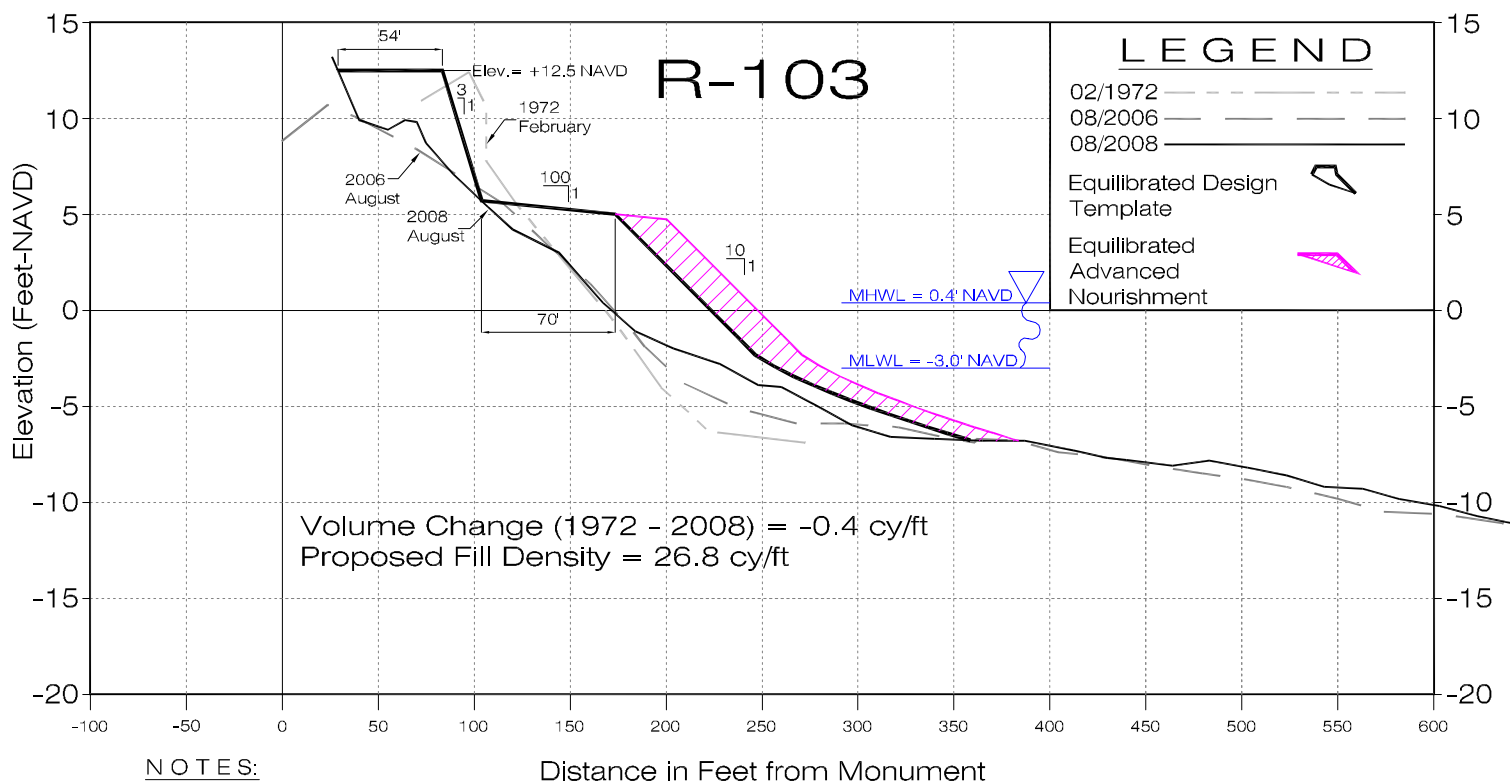
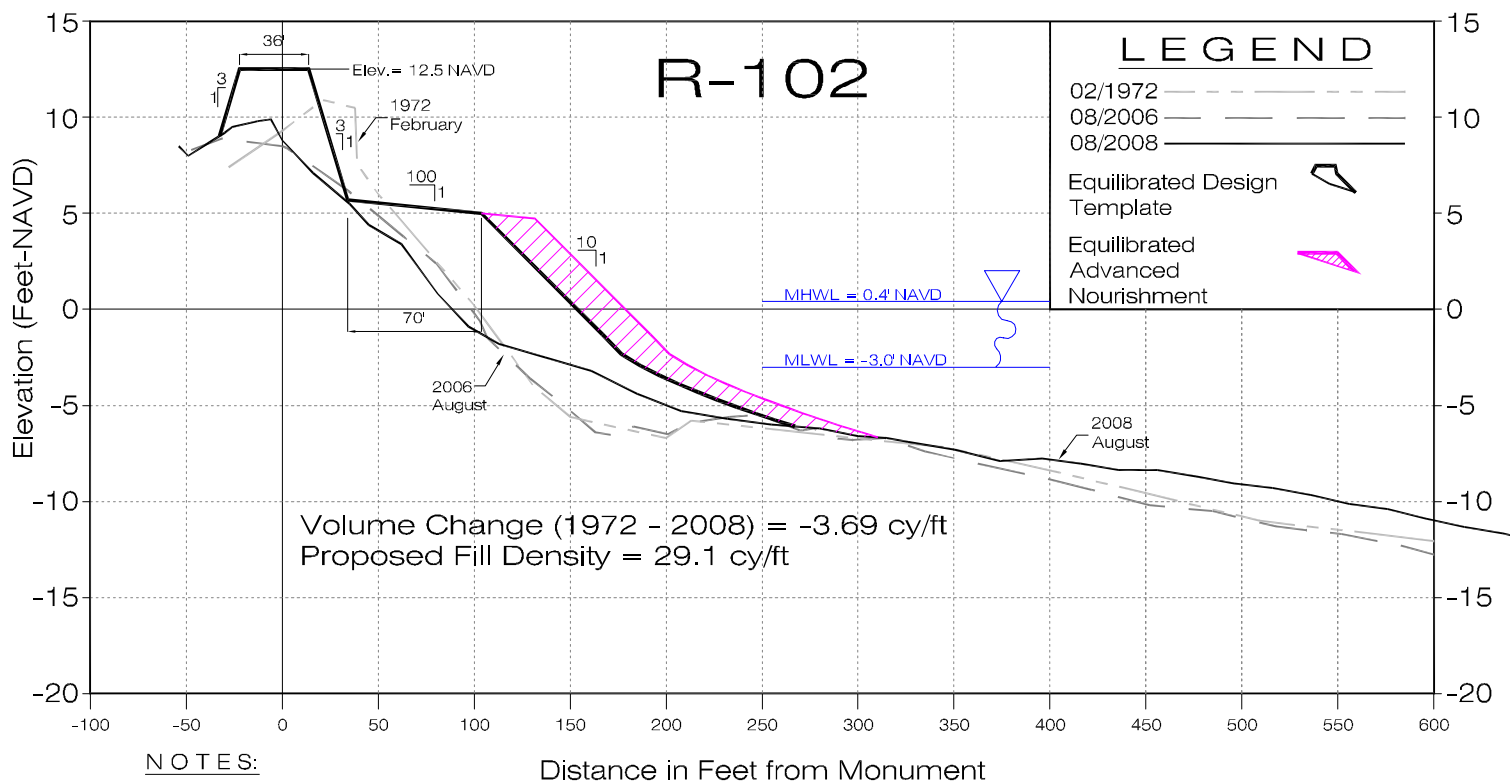
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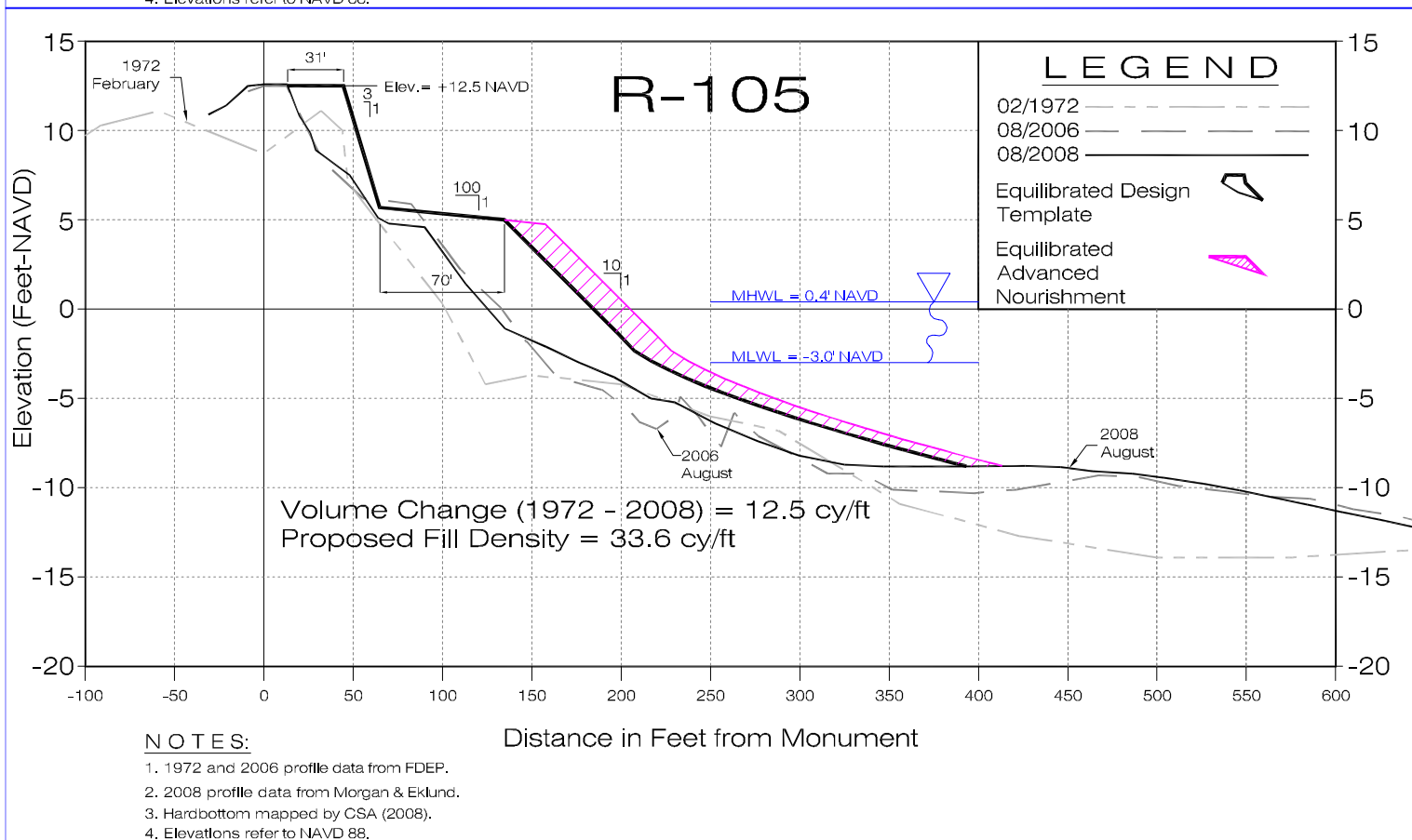
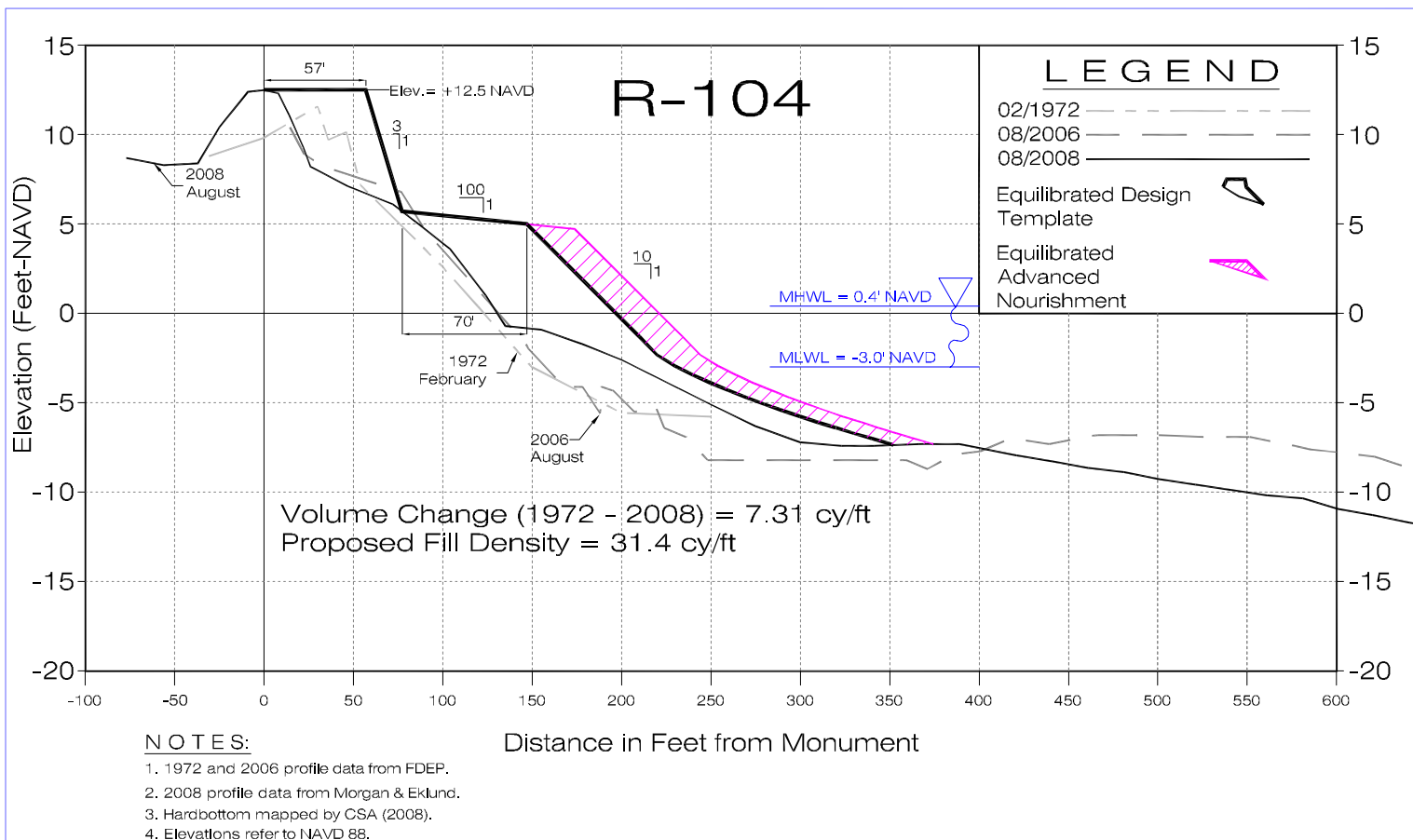
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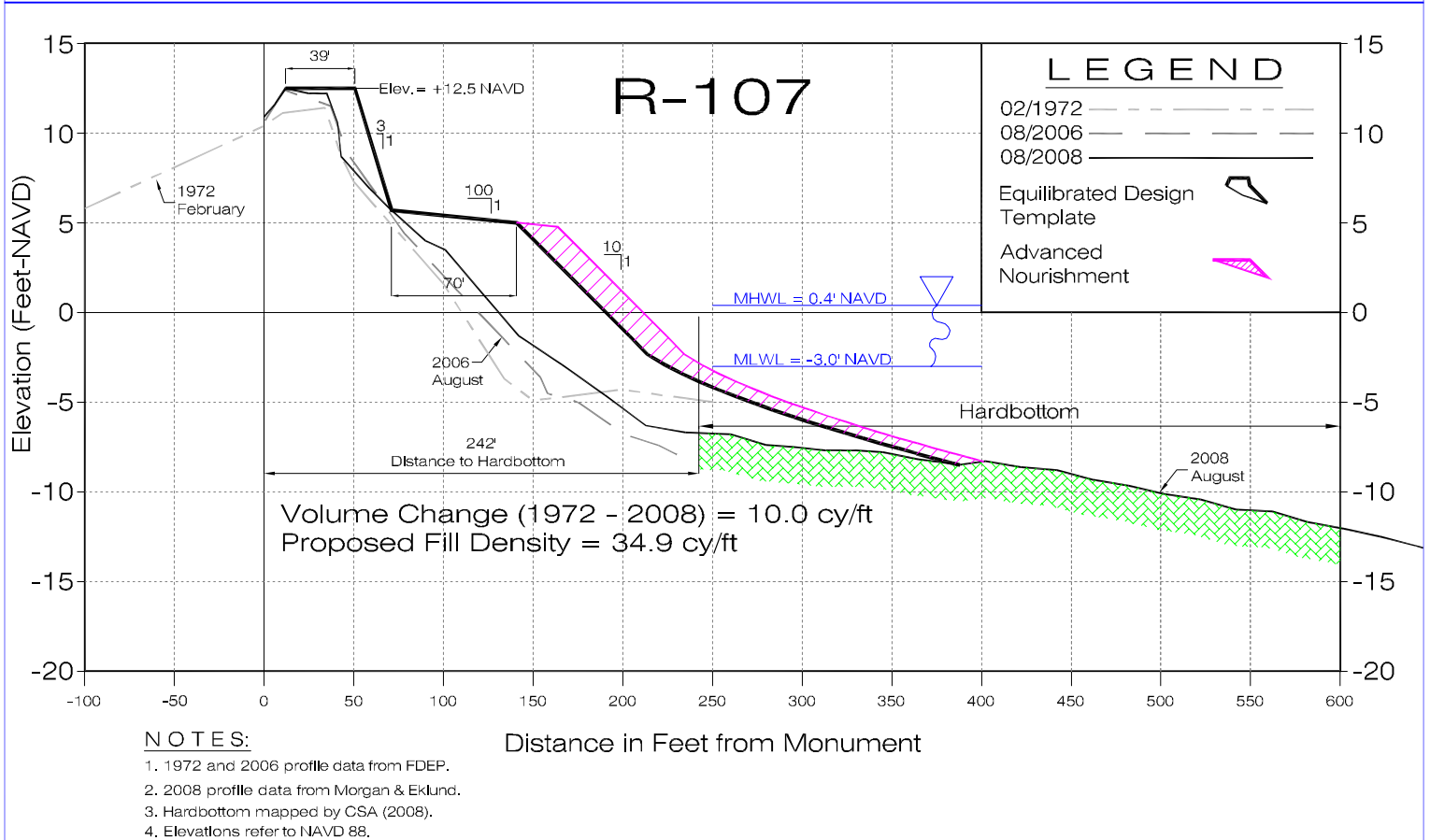
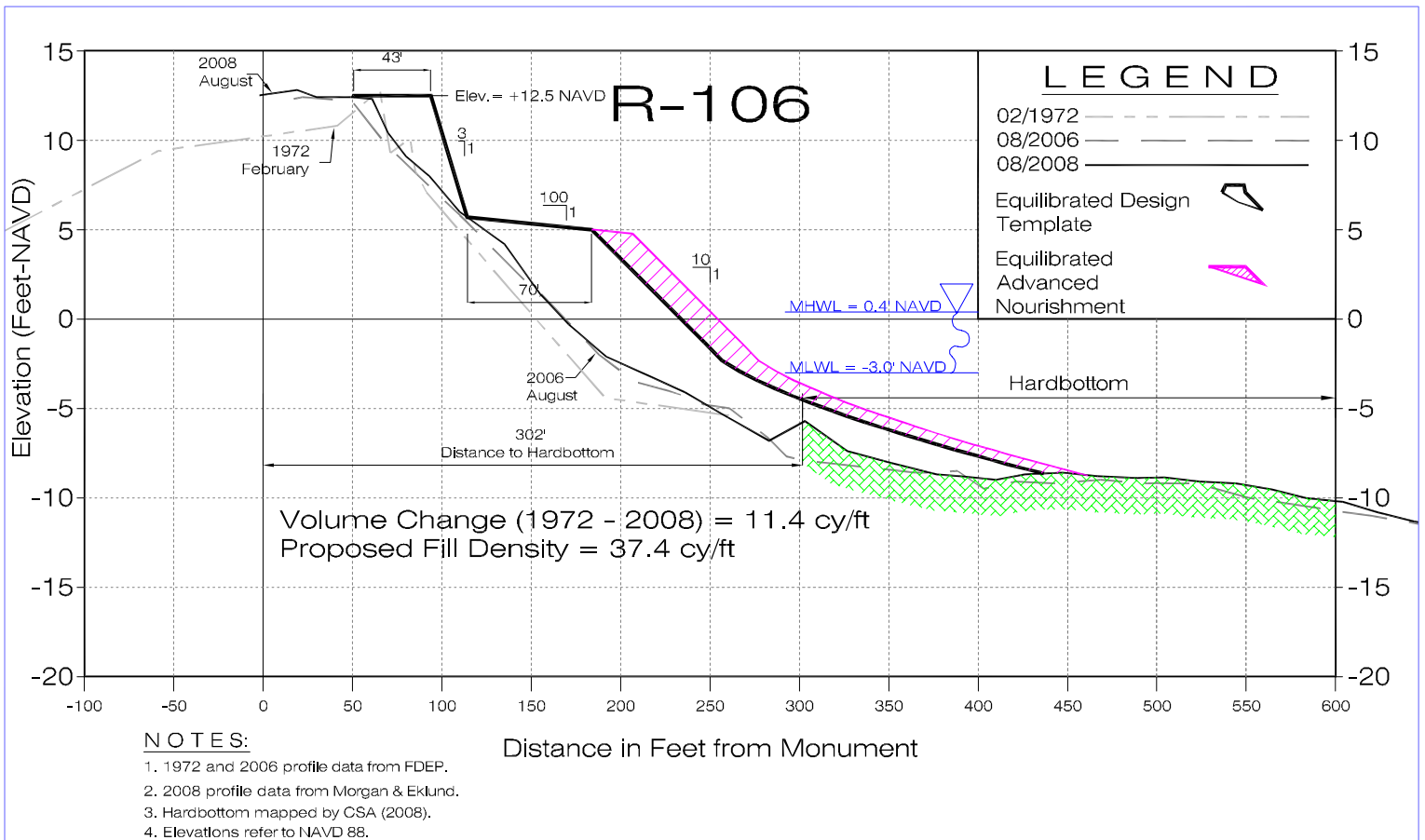
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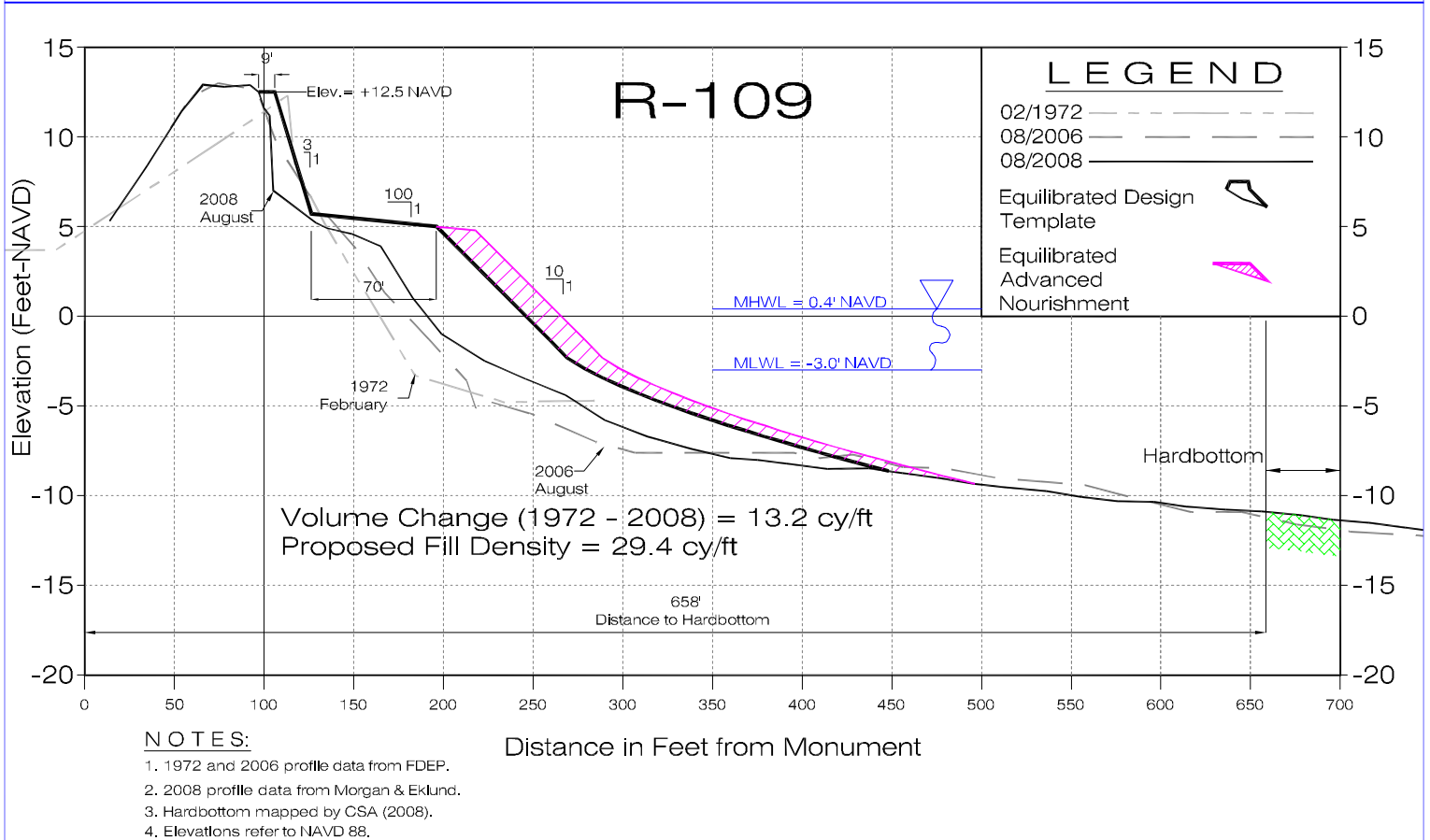
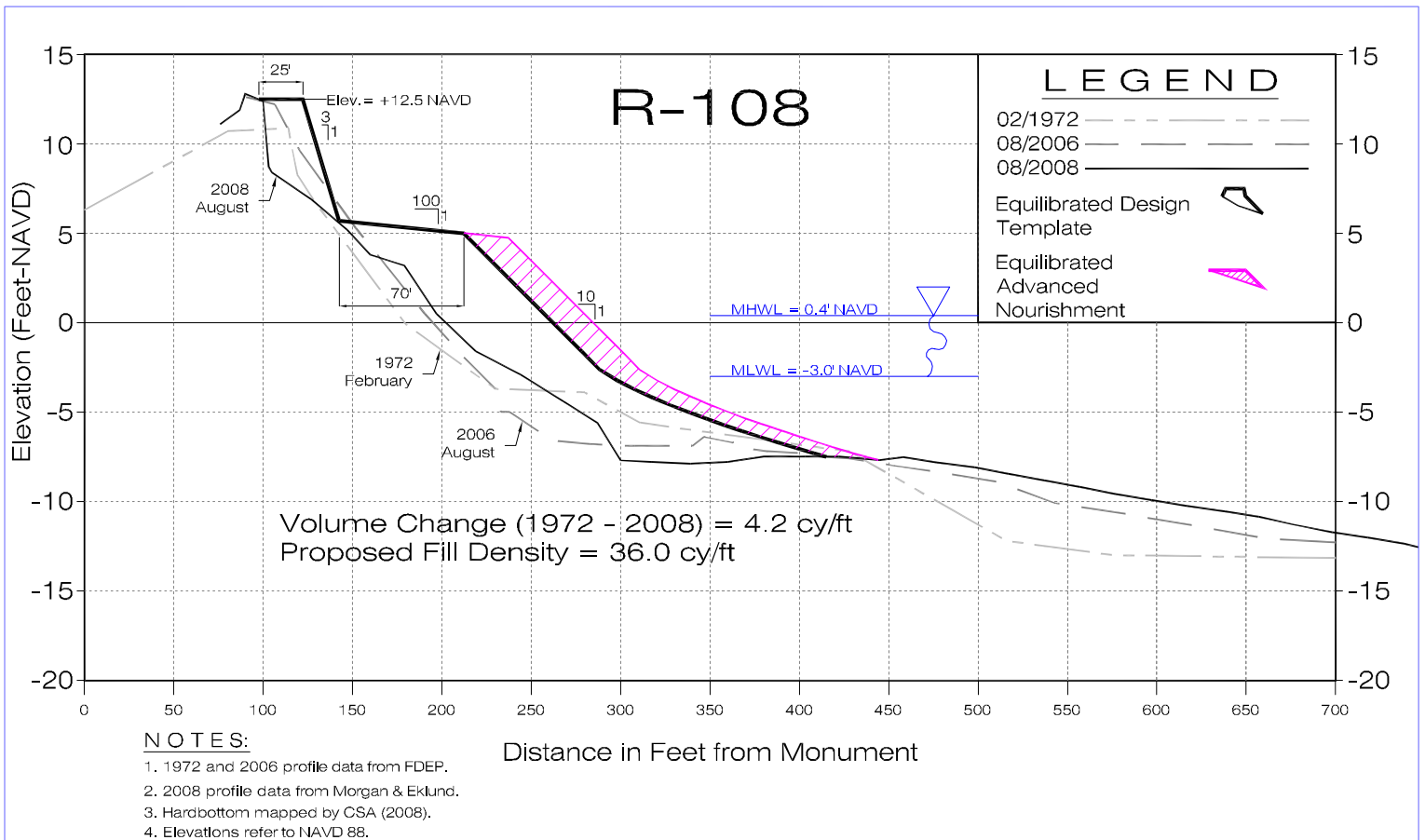
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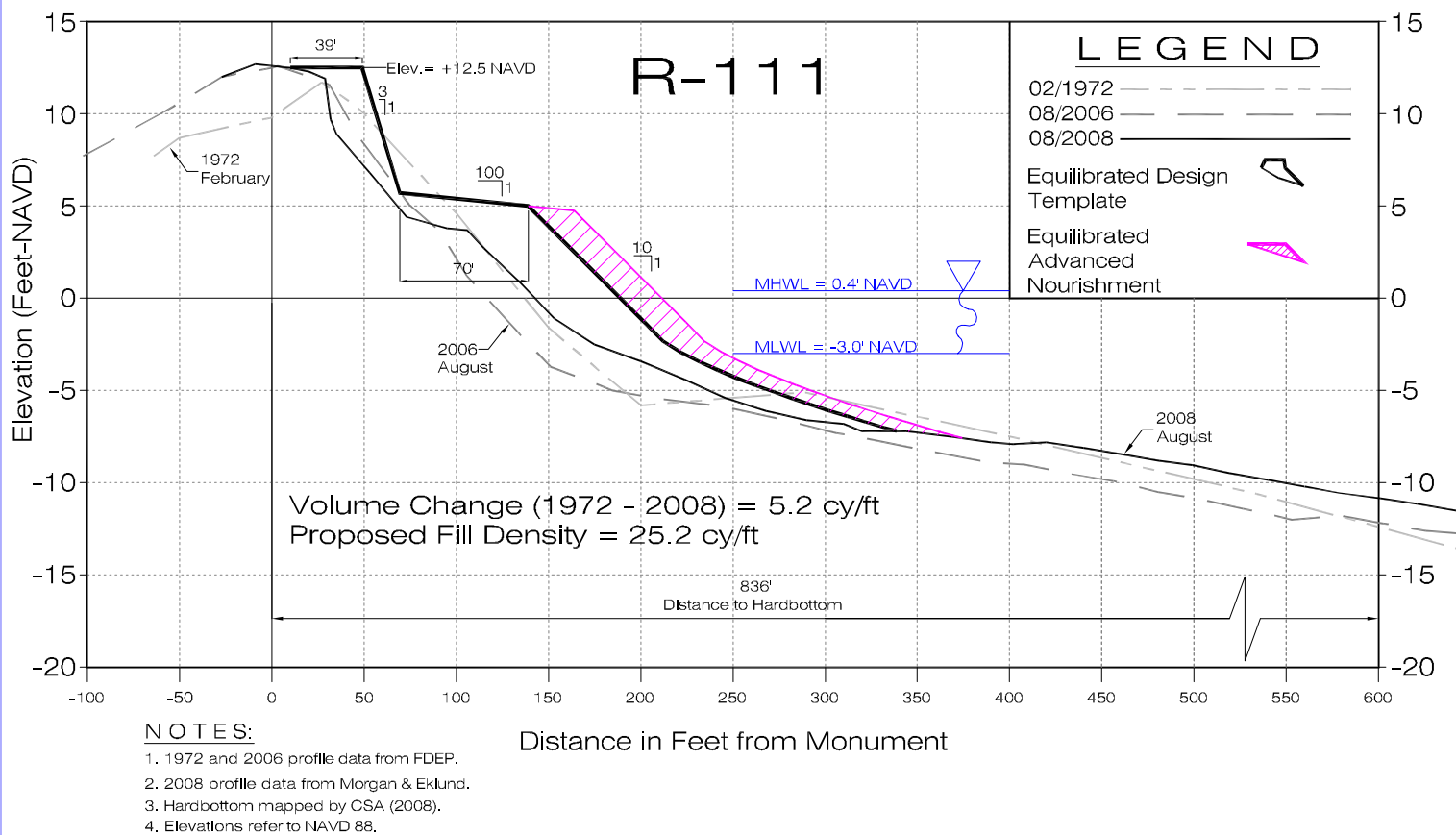
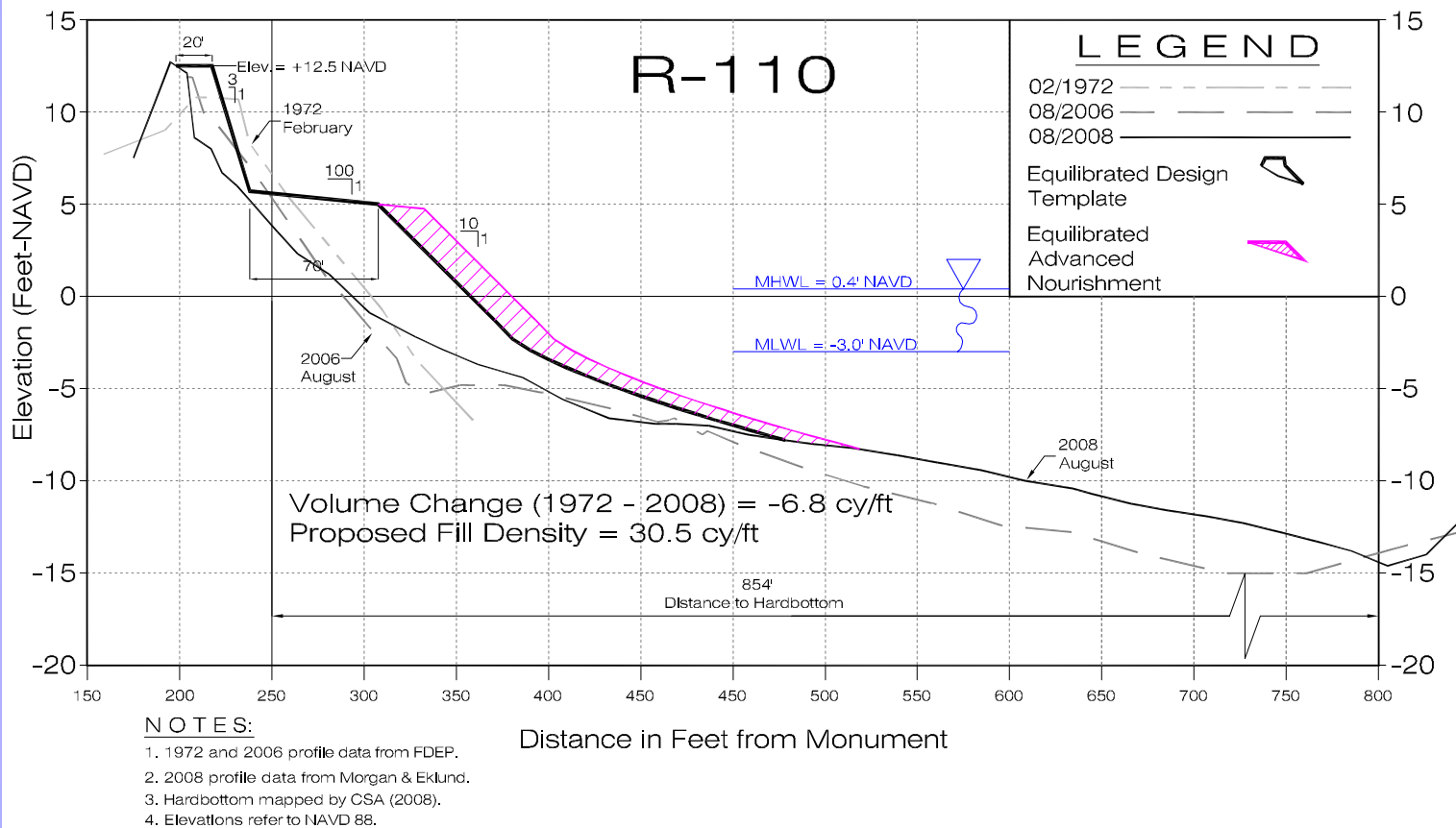
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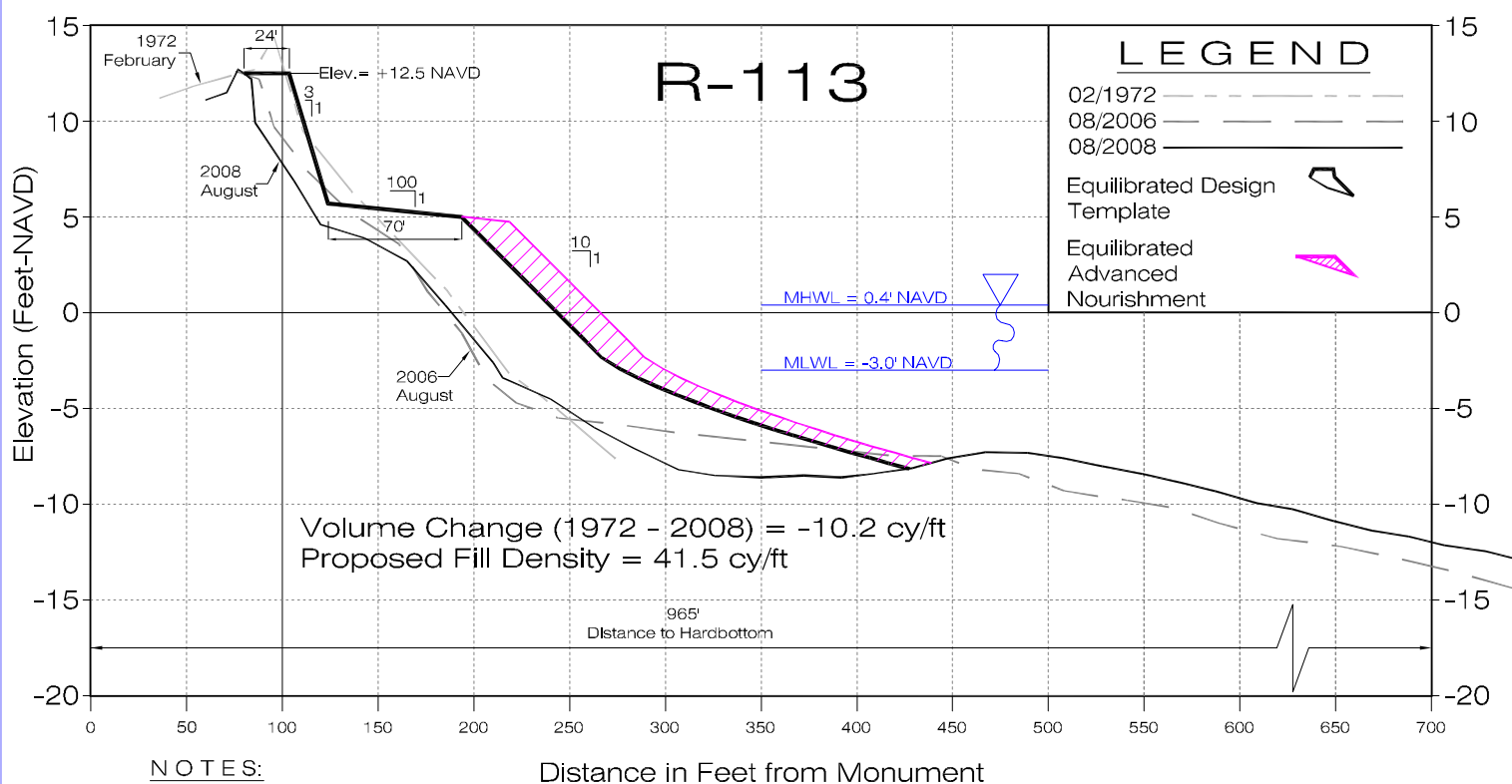
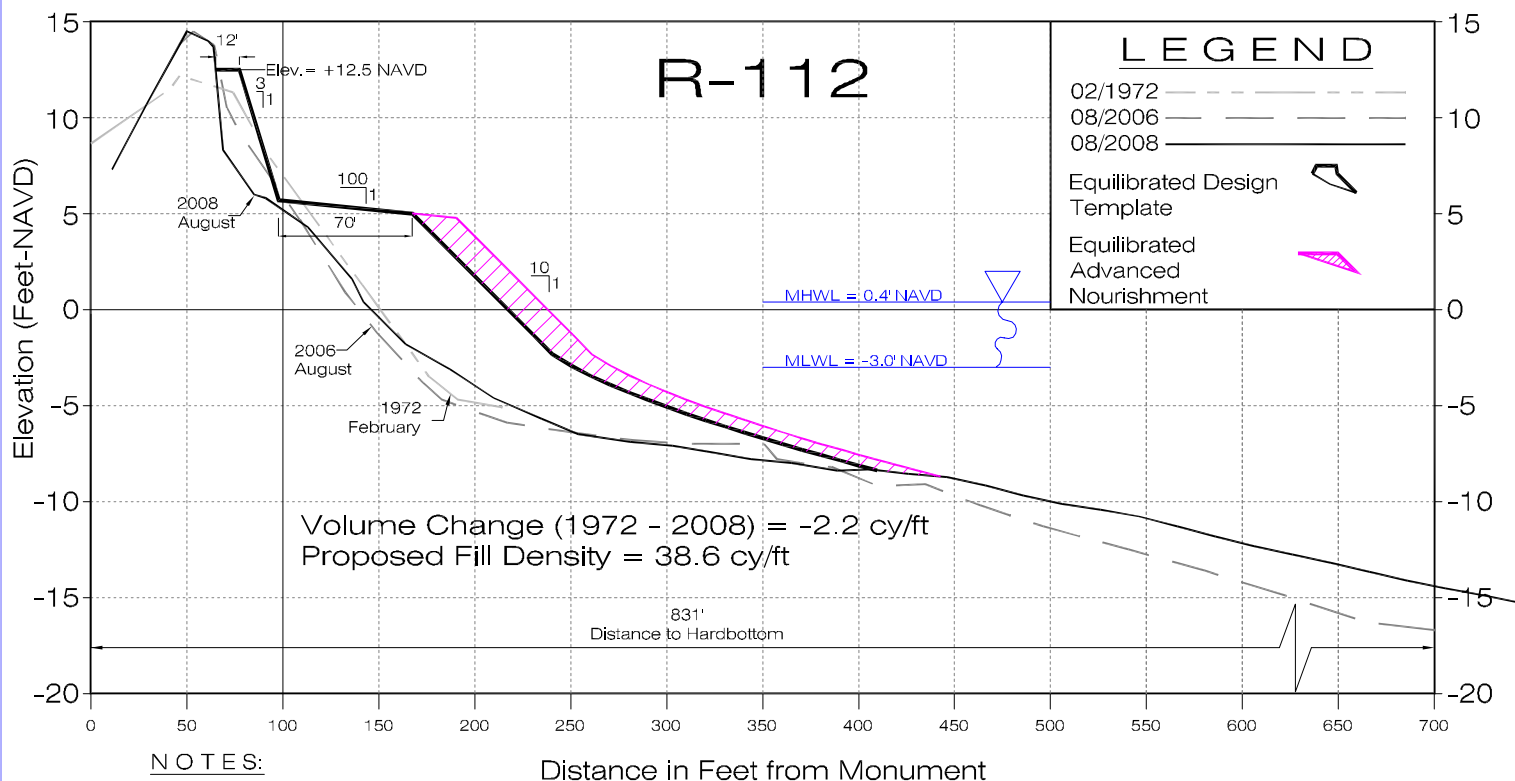
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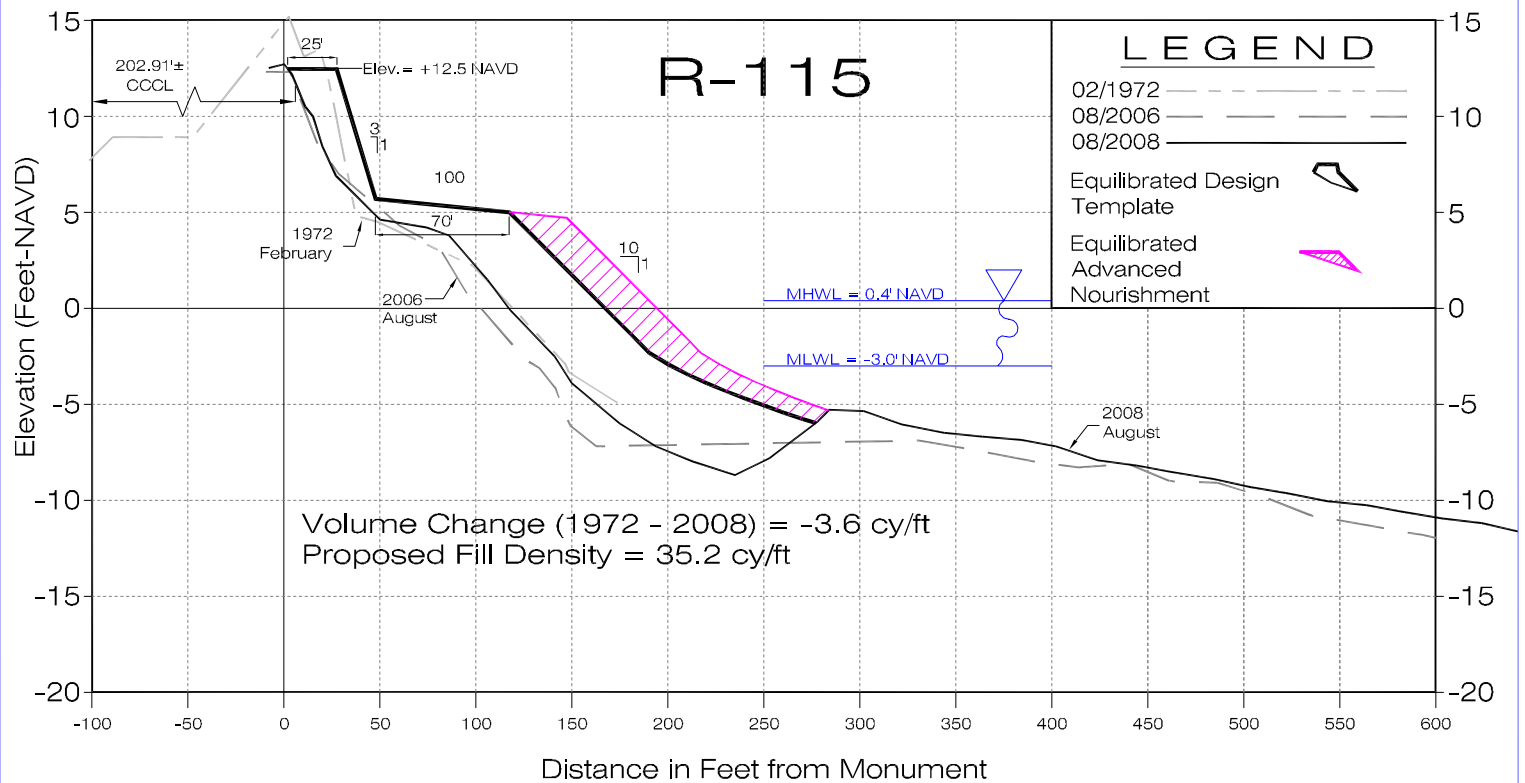
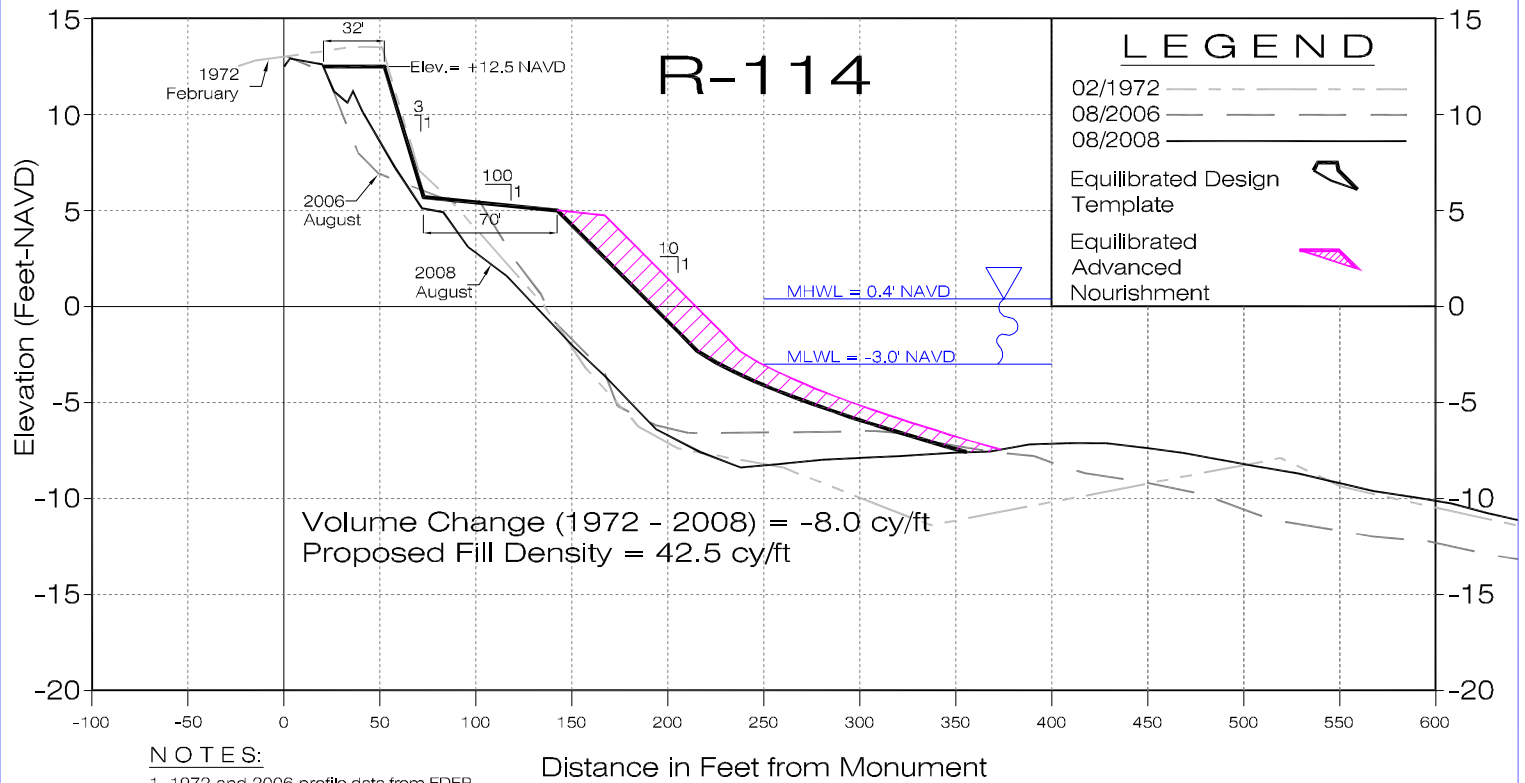
SHEET

12

OF 13 SHEETS

JOB NO.

24360.06



COASTAL TECH

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3625 20th Street, Vero Beach, Florida 32960
VERO BEACH • SARASOTA • MELBOURNE • AUSTIN

Profiles - 70' Berm Design Template

Beach & Dune Restoration Project
St. Lucie County, Florida

ENGR

MPW

LAST REVISION

DRAWN

AQN

DATE

02/06/09

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