

PERMIT BOUNDARY  
 SETBACK  
 PARCELS  
 DRAINAGE

CONTOUR INTERVAL = 5 FEET  
 VERTICAL DATUM: NAVD88  
 CONTOURS FROM 2019 LIDAR DATA  
 WASHINGTON STATE GEOSPATIAL DATA ARCHIVE

**RECEIVED**  
 November 17, 2023  
 Washington Geological Survey

PREPARED BY  
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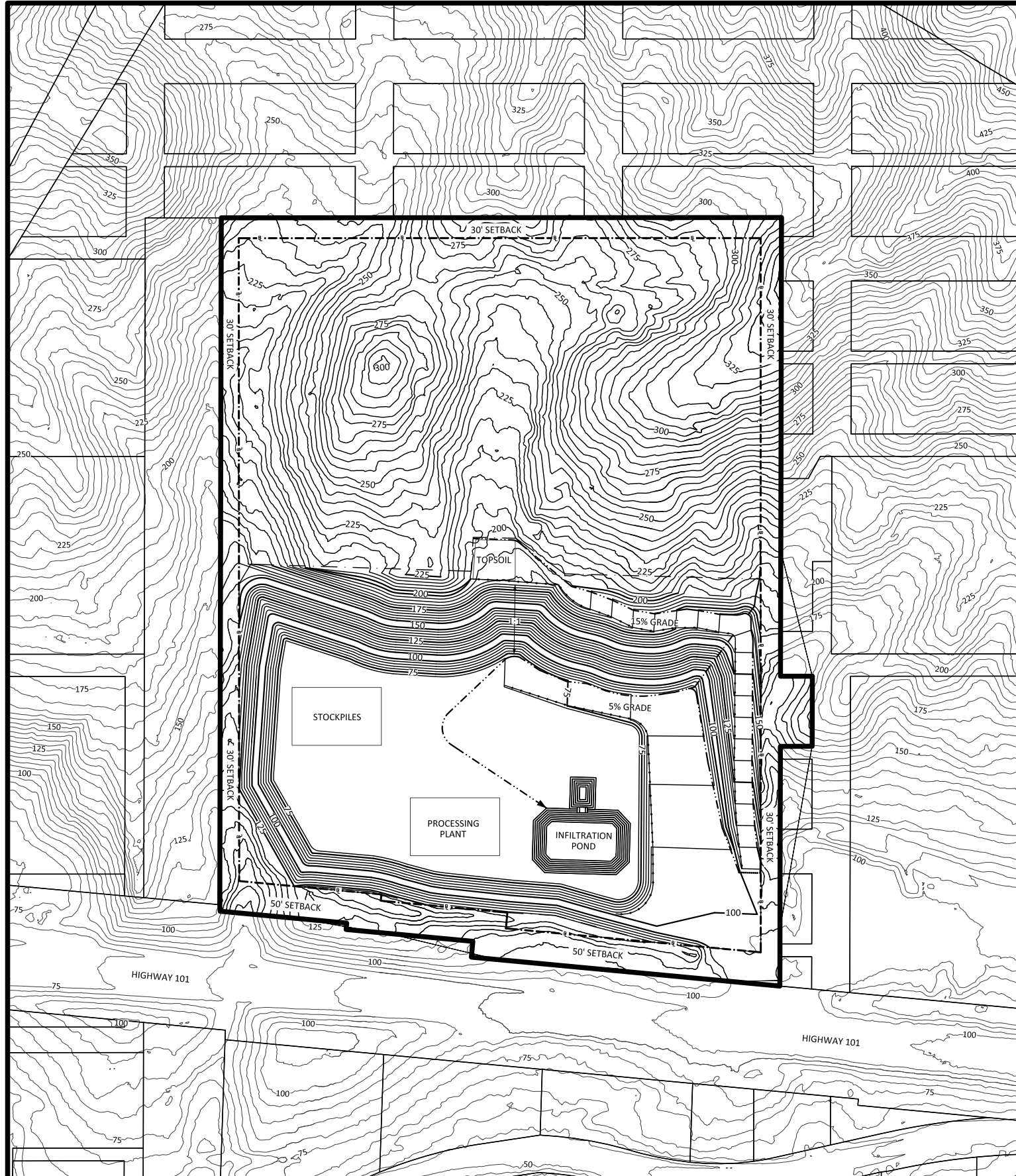
APPLICANT/PERMIT HOLDER:  
**DISCOVERY MATERIALS LLC**  
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PROJECT  
**DISCOVERY BAY PIT  
 RECLAMATION PERMIT  
 HIGHWAY 101  
 PORT TOWNSEND, WA**

SHEET TITLE  
**PRE-MINING  
 TOPOGRAPHIC MAP**

SHEET NO.  
**1 of 5**  
 DATE:  
**7/20/2022**  
 REVISED: 6/23





- LEGEND**
- Permit Boundary
  - Setback
  - Parcels
  - Drainage
  - Permanent Boundary Marker
  - Berm
  - Disturbance Boundary
  - Culvert

**Phase 1 - Mining & Reclamation Sequence Map**

Volumes: Cut: 750,000 CY

Phase 1 Mining will consist of mining the front 10 acres of the property. Upon completion of Phase 1 Mining the pit will be filled in with clean soil and brought up to natural grade. Backfilling will follow sites backfill plan. See Phase 2 for next sequence.

Slopes: Working slopes are designed to be 1:1 overall, consisting of 50' faces with 10' benches. Any deviations from this will follow the recommendations outlined in the Revised Geotechnical Report.

**Setbacks:**  
 50' along Southern Boundary, borders Highway 101  
 30' along Western, Northern, and Eastern Boundaries  
 All Setbacks will be left vegetated and undisturbed with the exception of the site entrance. This will protect neighboring properties from any disturbances the operation may cause including view, noise, dust, or land disturbances.

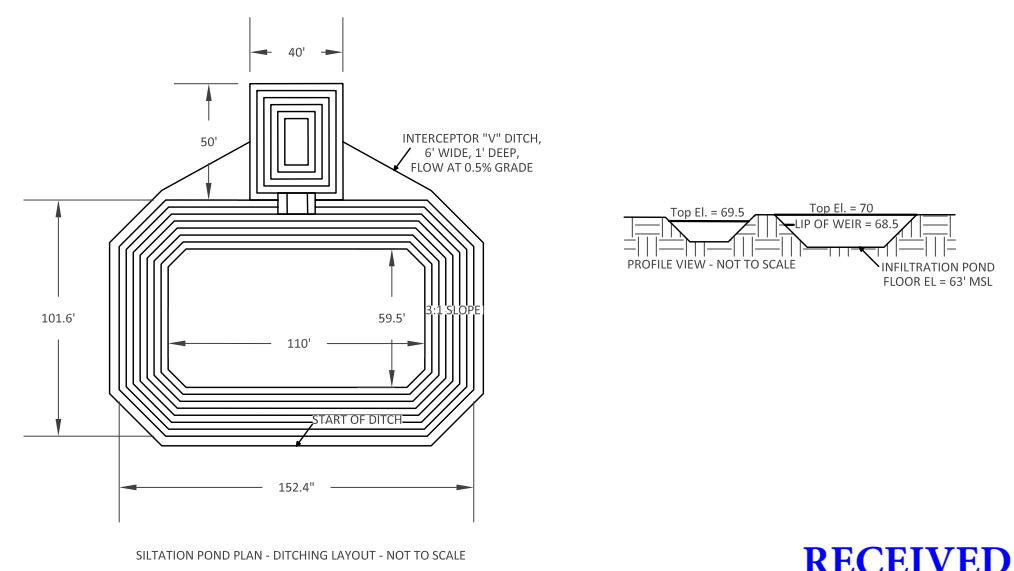
**Access/Haul Road:**  
 Access/Haul Road is a minimum of 40' wide and is at a 5% grade. There will also be a road specifically for heavy equipment to access the Topsoil stockpiles. This road is 30' wide with a 15% grade. Both roads will be reclaimed at the conclusion of Phase 1. A rock lined drainage ditch with Check Dams will run along the inside of the roads. This will divert all drainage to the sites pond located in the pit bottom. Both roads will have berms along the outside of the road for safety.

**Berms:**  
 Berms half the height of the tires of the haul trucks will be along the outer edge of both roads. This will help divert drainage and act as a safety measure for vehicles on the haul road.

Processing Plant will be placed in pit floor near the pond. Excavators, dozers, and/or loaders will be used to extract the material from the ground. The material will then be conveyed via truck, conveyor, or loader to the processing area or loaded directly onto trucks.

**Stormwater:**  
 An engineered stormwater pond has been designed for this project. This will be installed at the bottom of the pit to ensure stormwater infiltrates into the ground and no stormwater runs off site. All slopes and ditches will be graded to direct stormwater to the pond. Site will follow approved Site Management Plan. Refer to engineering plans on pond for full details. Details below are for quick reference only.

Topsoil will be stockpiled and kept for reclamation. Topsoil will be hydroseeded with grass as soon as possible after being stockpiled to prevent erosion.



SILTATION POND PLAN - DITCHING LAYOUT - NOT TO SCALE

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SHEET TITLE  
**Phase 1  
 Mining & Reclamation  
 Sequence Map**

SHEET NO.  
**2 of 5**  
 DATE:  
**7/20/2022**  
 REVISED: 6/23-11/23





**Phase 2 - Mining & Reclamation Sequence Map**

Volumes:  
 Fill: 442,000 CY  
 Cut: 1,405,000 CY

Phase 2 Mining will consist of backfilling the Phase 1 pit and mining the back 10 acres of the site. The front 10 acres of the property will be backfilled with clean soil and brought up to natural grade. A new pond with the same engineered plans as in Phase 1 will be built. This will control all on-site stormwater. A road will be left along the Southern and Western side of the property to provide access to the back 10 acres of the site. The front 10 acres will be seeded to help control erosion and left undisturbed until final reclamation. The back 10 acres of the site will then be mined. See Phase 3 Final Reclamation Map for next sequence.

Slopes: Working Slopes will be 1:1 with max 50' faces and 10' benches. Any deviations from this will follow the recommendations outlined in the Revised Geotechnical Report.

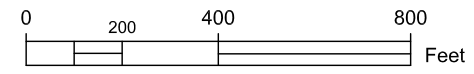
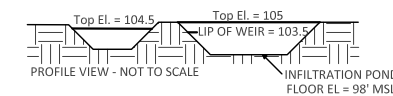
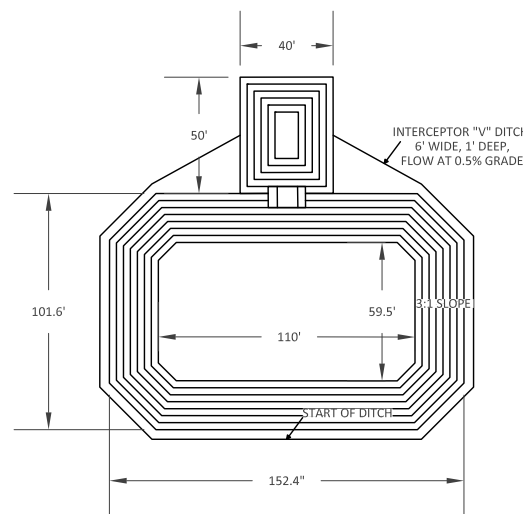
Setbacks:  
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 30' along Western, Northern, and Eastern Boundaries  
 All Setbacks will be left vegetated and undisturbed with the exception of the site entrance. This will protect neighboring properties from any disturbances the operation may cause including view, noise, dust, or land disturbances.

Access/Haul Road:  
 Haul Road is 40' wide along the Southern and Western side of the property. This road will be reclaimed at the conclusion of Phase 2. A rock lined drainage ditch with Check Dams will run along the the road. This will divert all drainage to the sites pond.

Processing Plant will be placed in the back 10 acres of the lot near the Haul road. Excavators, dozers, and/or loaders will be used to extract the material from the ground. The material will then be conveyed via truck, conveyor, or loader to the processing area or loaded directly onto trucks.

Stormwater:  
 An engineered stormwater pond has been designed for this project. This will be installed to ensure stormwater infiltrates into the ground and no stormwater runs off site. All slopes and ditches will be graded to direct stormwater to the pond. Site will follow approved Site Management Plan. Refer to engineering plans on pond for full details. Details below or for quick reference only.

Topsoil will be stockpiled and kept for reclamation. Stockpiles shall be hydroseeded with grass as soon as possible after being stockpiled to prevent erosion.



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- LEGEND**
- Permit Boundary
  - - - Setback
  - ▭ Parcels
  - - - - - Drainage
  - ⊕ Permanent Boundary Marker
  - - - - - Disturbance Boundary
  - ..... Culvert

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 RECLAMATION PERMIT  
 HIGHWAY 101  
 PORT TOWNSEND, WA**

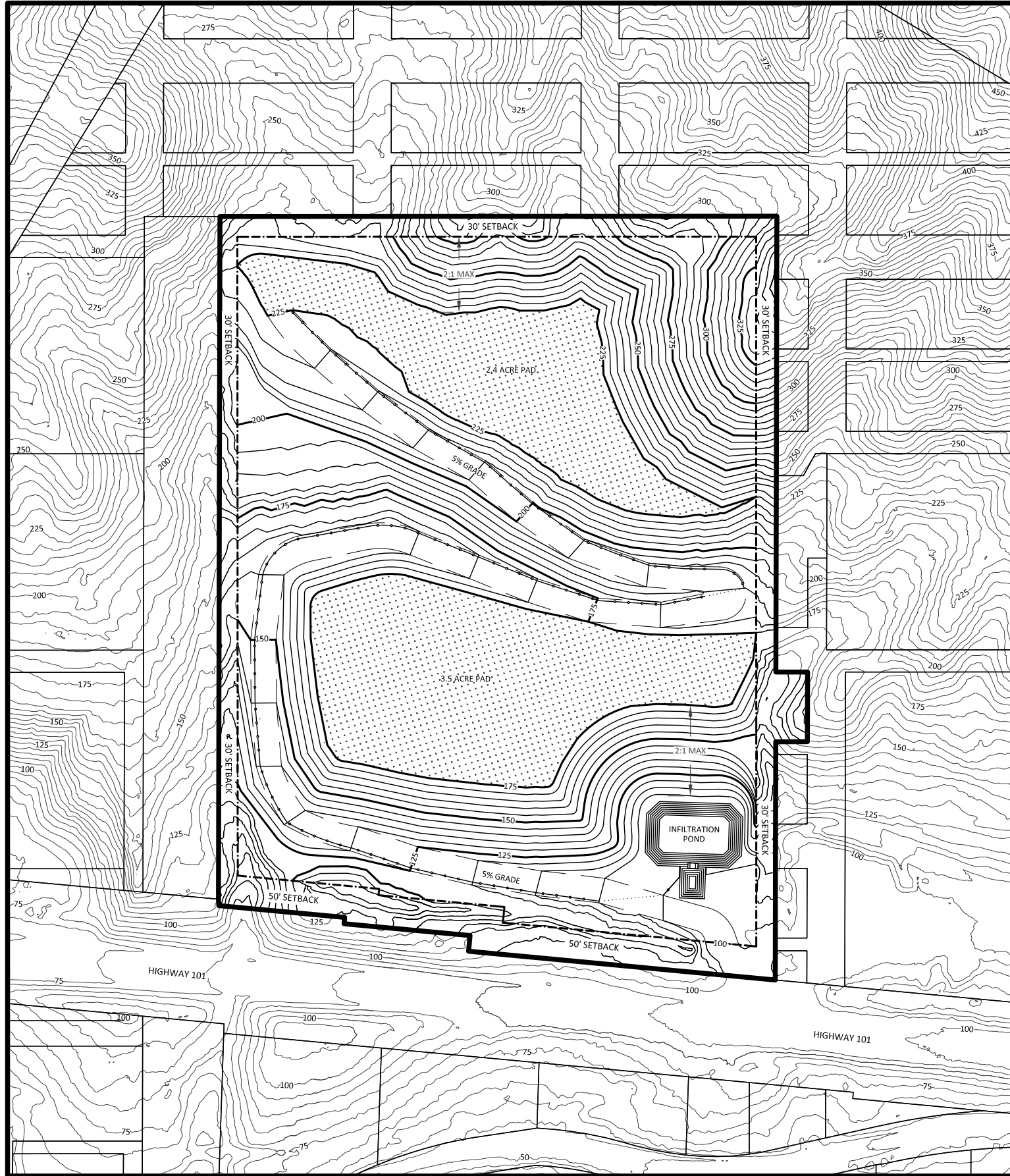
SHEET TITLE  
**Phase 2  
 Mining & Reclamation  
 Sequence Map**

SHEET NO.  
**3 of 5**

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**Phase 3 - Final Reclamation Map**

Volumes:  
Fill: 1,400,000 CY

Upon completion of Phase 2 Mining, Phase 3 will begin. The site will be backfilled according to the backfill plan. The slopes will be backfilled to a maximum of 2:1 grade with 2 large pads on site. The top pad will be approximately 2.4 acres in size at 225' msl. The second pad will be approximately 3.5 acres in size at 175' msl. There will be a 40' wide access road at 5% grade that will connect the two pads and start at the site entrance. A drainage will run along the inside of the road to help prevent erosion and drain stormwater appropriately on the property.

Slopes: Final Slopes will be 2:1 with max. Any deviations will from this will follow the recommendations outlined in the Revised Geotechnical Report.

Setbacks:  
50' along Southern Boundary, borders Highway 101  
30' along Western, Northern, and Eastern Boundaries  
All Setbacks will be left vegetated and undisturbed with the exception of the site entrance. This will protect neighboring properties from any disturbances the operation may cause including view, noise, dust, or land disturbances.

Access Road:  
Access Road is 40' wide and allows access to both pads on the property. The road will be kept at a 5% grade or less. A rock lined drainage ditch with Check Dams will run along the the road. Culverst will be used to cross the road where necessary. This will prevent erosion and will divert stormwater to the appropriate places on site.

Topsoil and Native species will be used to reclaim the site. Perennial Rye, Red Alder, Clover, and Douglas Fir will be planted to help stabilize the slopes. All slopes will be revegetated to prevent erosion. The top pad will be seeded with native grass. The lower pad will be vegetated with trees and grass.

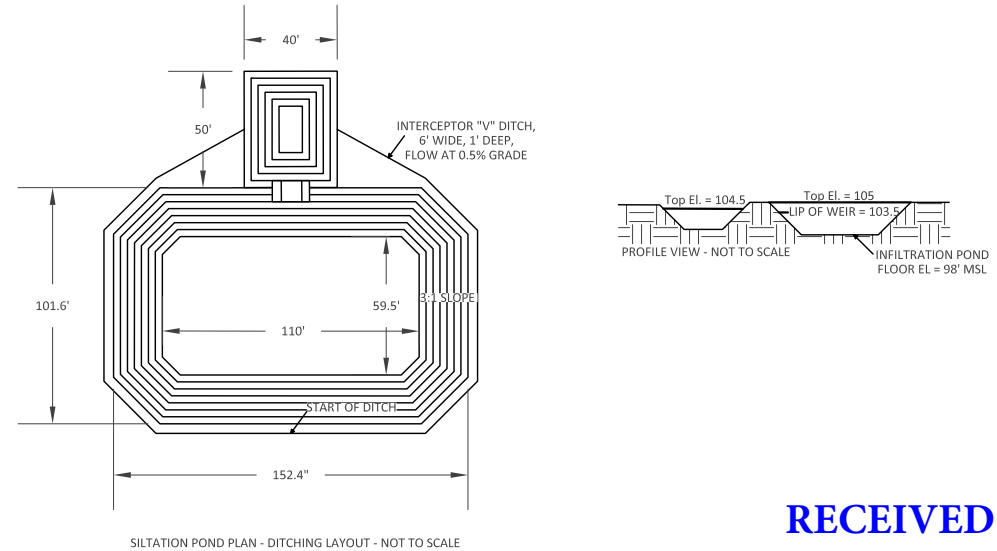
Stormwater:  
A rock lined drainage ditch with check dams will run along the access road. A culvert will be installed under the road to keep drainage along the inside of the road. The drainage will be directed to the on site infiltration pond.

Site Volume Total for all Phasing:

Fill: 1,842,000 CY

Cut: 2,155,000 CY

Total Earthwork: 3,997,000 CY



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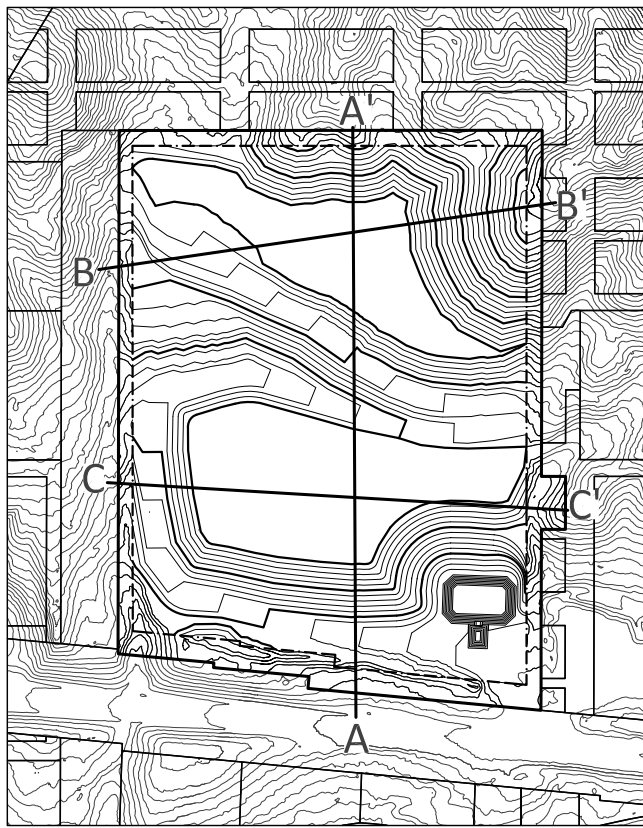
SHEET TITLE  
**Phase 3**  
**Final Reclamation Map**

SHEET NO.  
**4 of 5**

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REVISED: 6/23

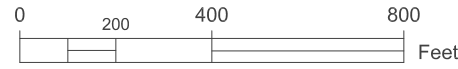


**CROSS-SECTION DETAILS**

EACH CROSS SECTION SHOWS THE DIFFERENCE BETWEEN EXISTING GRADE AND FINAL RECLAIMED GRADE.

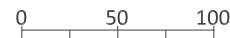
TOTAL VOLUMES:  
 FILL: 1,836,741 CY  
 CUT: 2,151,552 CY  
 TOTAL EARTHWORK: 3,988,293 CY

LEGEND:  
 — EXISTING GRADE  
 — EXTENT OF MINING GRADE  
 — FINAL RECLAIMED GRADE

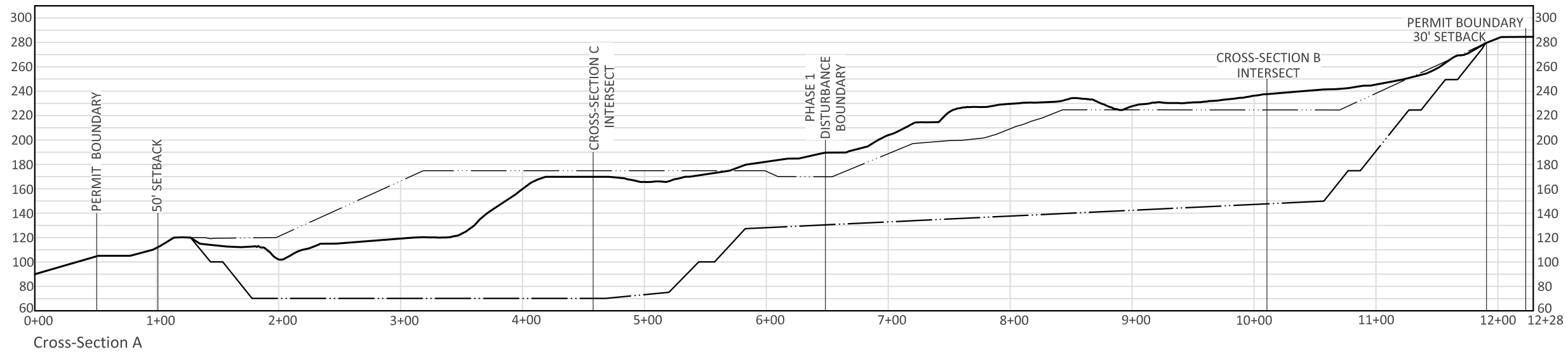
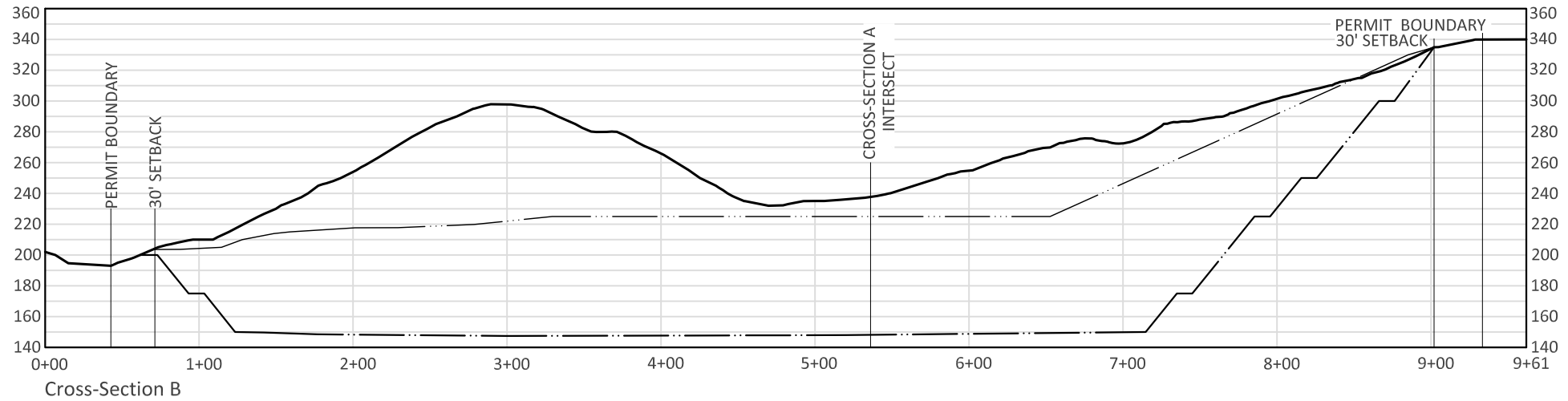
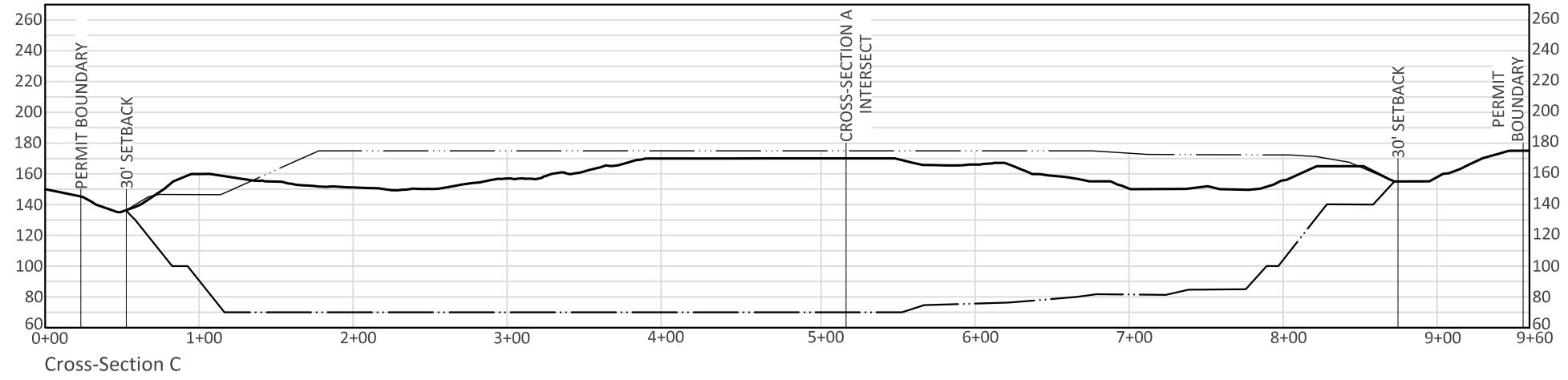


SCALE: 1" = 400'

CONTOUR INTERVAL = 5 FEET  
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CROSS-SECTION SCALE  
 VERTICAL: 1" = 100'  
 HORIZONTAL: 1" = 100'



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SHEET TITLE  
**Cross - Sections**

SHEET NO.  
**5 of 5**

DATE:  
**7/20/2022**  
 REVISED: 12/22; 6/23