BRIDGE REPLACEMENT - CCS
BRF-461-1(9)--38-82

LETTING DATE 10-18-2022

SCOTT Co.

| REVISIONS |
|---|
| |

| | TOTAL 71 |
|---|---|
| PROJECT IDENTIFICATION NUMBER | |
| 16-82-461-010 | |
| PROJECT NUMBER | |
| BRF-461-1(9)--38-82 | |
| R.O.W. PROJECT NUMBER | |
| NHSN-461-1(10)--2R-82 | |

IOWA DOT

*Highway Division*

PLANS OF PROPOSED IMPROVEMENT ON THE

# PRIMARY ROAD SYSTEM

# SCOTT COUNTY

## BRIDGE REPLACEMENT - CCS

**Duck Creek 0.4 mi S of US 6 in Davenport (NB)**

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

## INDEX OF SHEETS


| No. | DESCRIPTION |
|---|---|
| **A Sheets** | **Title Sheets** |
| A.1 | Title Sheet |
| A.2 | Location Map Sheet |
| **B Sheets** | **Typical Cross Sections and Details** |
| B.1 - 4 | Typical Cross Sections and Details |
| **D Sheets** | **Mainline Plan and Profile Sheets** |
| * D.1 | Plan & Profile Legend & Symbol Information Sheet |
| * D.2 - 3 | U.S. 461 |
| **E Sheets** | **Side Road Plan and Profile Sheets** |
| * E.1 | E. George Washington Blvd. |
| * E.2 | E. 35th St. |
| * E.3 | Duck Creek Trail Pkwy. |
| * E.4 | Bike Path 2 |
| * E.5 | Bike Path 3 |
| **F Sheets** | **Detour or Temporary Pavement Sheets** |
| * F.1 - 2 | Detour Plan and Profile Sheets |
| **G Sheets** | **Survey Sheets** |
| G.1 - 3 | Reference Ties and Bench Marks |
| **J Sheets** | **Traffic Control and Staging Sheets** |
| J.1 | Traffic Control Plan and Staging Notes |
| * J.2 | Traffic Control & Staging Legend & Symbol Info. Sheet |
| J.3 | Cross Sections for Staging |
| * J.4 | Pre-Staging |
| * J.5 - 7 | Staging and Traffic Control Sheets Stage 1 |
| * J.8 - 9 | Staging and Traffic Control Sheets Stage 2 |
| * J.10 - 11 | Staging and Traffic Control Sheets Stage 3 |
| **U Sheets** | **500 Series, Mod.Stds. and Detail Sheets** |
| * U.1 - 3 | Entrance Detail Sheets |
| **V Sheets** | **Bridge and Culvert Situation Plans** |
| * V.1 - 4 | Bridge and Culvert Situation Plan |
| **W Sheets** | **Mainline Cross Sections** |
| W.1 - 8 | Mainline Cross Sections |
| **X Sheets** | **Bike Path Cross Sections** |
| X.1 - 12 | Bike Path Cross Sections |
| **Y Sheets** | **Detour Cross Sections** |
| Y.1 - 14 | Detour Cross Sections |
| | * Color Plan Sheets |


D5 Revision – Date: 5–7–20

**PRELIMINARY PLANS**

Subject to change by final design.

D5 – Date: 11–8–19

For Project Location Map
Refer to Sheet No. A.2

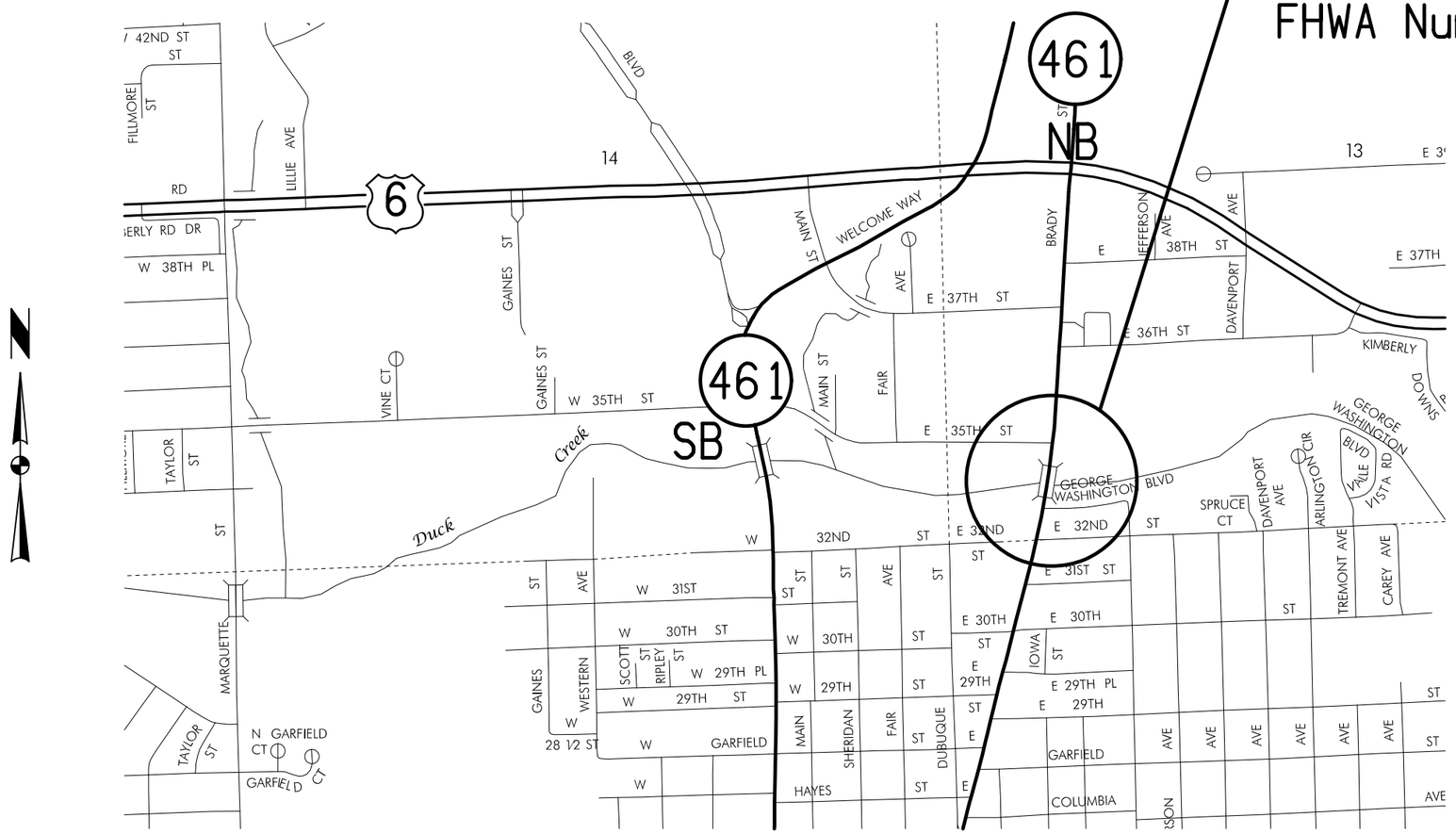
| DESIGN DATA URBAN | | |
|---|---|---|
| 2021 AADT | 22,100 | V.P.D. |
| 2041 AADT | 25,200 | V.P.D. |
| 20-- DHV | -- | V.P.H. |
| TRUCKS | 2 | % |
| Total Design ESALs | -- | |

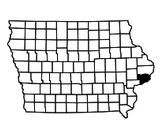
STA. 2004+90.44

Project Location

Maint. Number: 8220.1R061

FHWA Number 46940



LOCATION MAP SCALE

0 0.1 0.2 0.3

Miles

| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER A.2 |
|---|---|---|---|---|---|

1:30:21 PM 11/8/2019 jkoch pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\Projects\8246101016\Design\CADD\Sheet_Files\82461009_A01.dgn

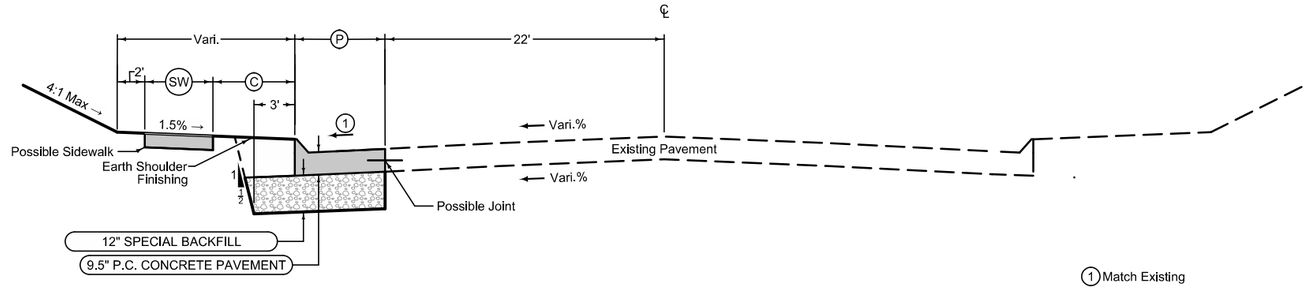
## Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:CD match existing mainline spacing

| | | | | | 2_Curb_A Modified |
|---|---|---|---|---|---|
| STATION TO STATION | | SW Feet | C Feet | P Feet | Curb Type See PV-102 |
| 2001+54.62 | 2002+53.21 | 5 | 3 | 2.5 | (1) |
| | | | | | |
| 2005+89.94 | 2007+79.61 | 5 | 6 | 2.5 | 6" Std. |
| | | | | | |

(1) See 4" Modified Curb Detail




**IA 461**

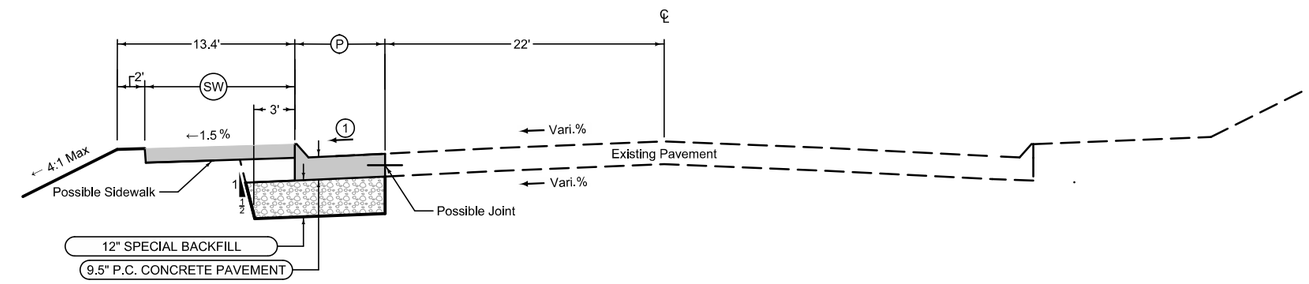
## Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:CD match existing mainline spacing

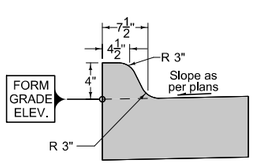
| | | | | | 2_Curb_A Modified |
|---|---|---|---|---|---|
| STATION TO STATION | | SW Feet | | P Feet | Curb Type See PV-102 |
| | | | | | |
| 2003+26.02 | 2003+90.94 | 11.4 | | 2.5 | 6" Std. |
| | | | | | |
| | | | | | |

(1) See 4" Modified Curb Detail




**IA 461**

## 4" Modified Curb Detail




**4" CURB HEIGHT**

See Tab 100-24 or 100-25 for pavement quantities.

See Tab 112-9 for shoulder quantities.

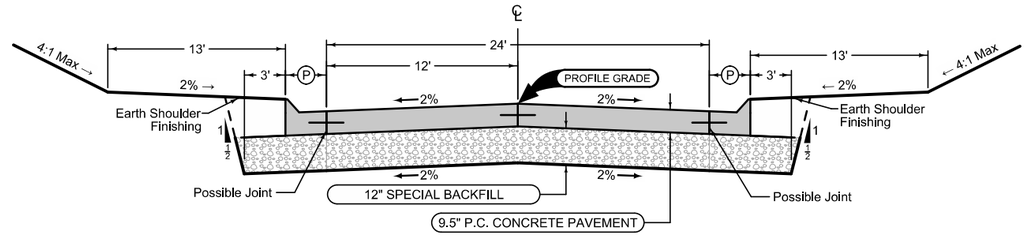
**IA 461**

## Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse: Match mainline jointing

| | | | 2_Curb_ 10-17-17 |
|---|---|---|---|
| STATION TO STATION | | (P) Feet | Curb Type See PV-102 |
| 4000+96.36 | 4001+25.62 | 3.5 | 6" Std. |
| | | | |
| | | | |
| | | | |




Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

| | 2P_ 10-19-10 |
|---|---|
| STATION TO STATION | |
| 4000+96.36 | 4001+25.62 |
| | |
| | |
| | |

## Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse: Match mainline jointing

| | | | 2_Curb_ 10-17-17 |
|---|---|---|---|
| STATION TO STATION | | (P) Feet | Curb Type See PV-102 |
| 4000+96.36 | 4001+25.62 | 3.5 | (1) |
| | | | |
| | | | |
| | | | |

(1) See 4" Modified Curb Detail

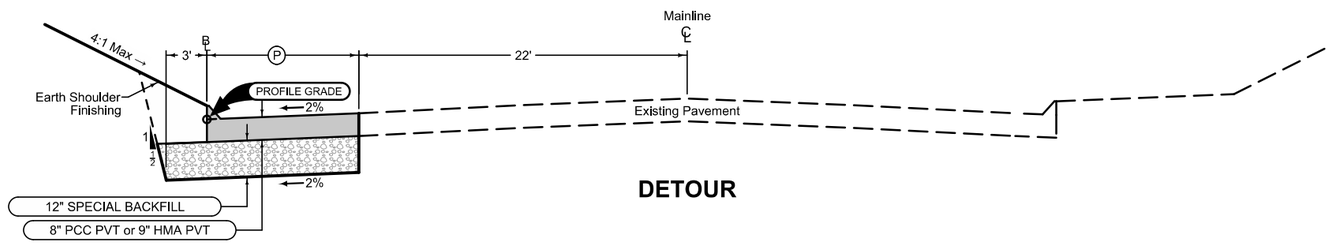
## E. GEORGE WASHINGTON BLVD.

## Detour

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C match existing mainline spacing

| | | | 2_Curb_C Modified |
|---|---|---|---|
| STATION TO STATION | | (P) Feet | Curb Type See PV-102 |
| 10015+22.44 | 10016+36.80 | 2.5'-10.7' | 6" Std. |
| | | | |
| | | | |
| | | | |



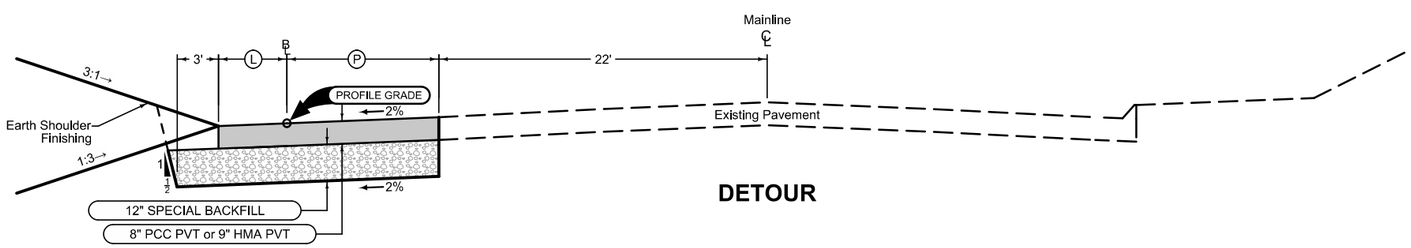

## DETOUR

## Detour

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C match existing mainline spacing

| | | | 2_Curb_D Modified |
|---|---|---|---|
| STATION TO STATION | | (L) Feet | (P) Feet |
| 10016+72.37 | 10017+57.07 | 11.5-1.8 | -- |
| 10016+74.83 | 10016+86.59 | -- | 0-10.4 |
| 10016+86.59 | 10017+57.07 | -- | 10.4-13.2 |
| | | | |



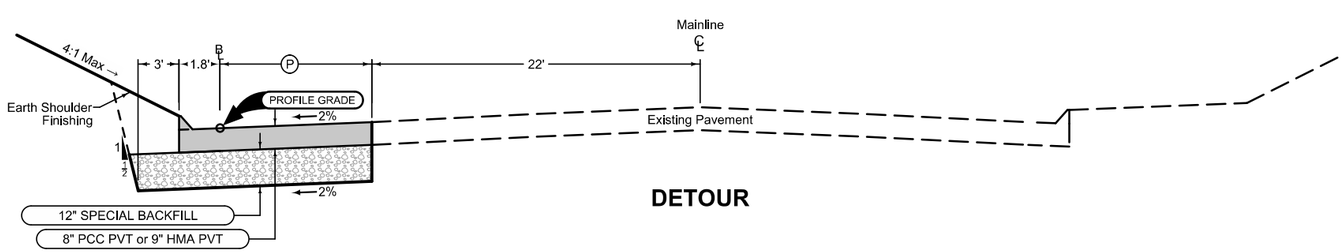

## DETOUR

## Detour

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C match existing mainline spacing

| | | | 2_Curb_E Modified |
|---|---|---|---|
| STATION TO STATION | | (P) Feet | Curb Type See PV-102 |
| 10019+56.06 | 10021+44.42 | 15.7'-7.7' | 6" Std. |
| | | | |
| | | | |
| | | | |



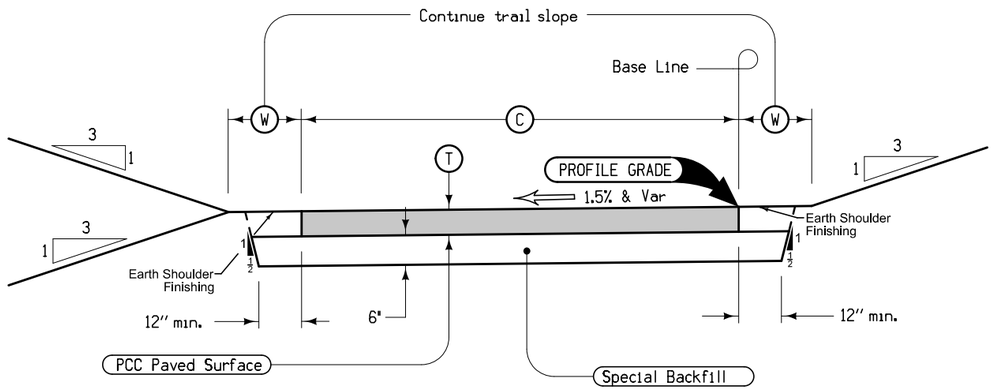

## DETOUR

See Tab 100-24 or 100-25 for pavement quantities.

See Tab 112-9 for shoulder quantities.

## E. GEORGE WASHINGTON BLVD. & DETOUR

7402 A
MODIFIED



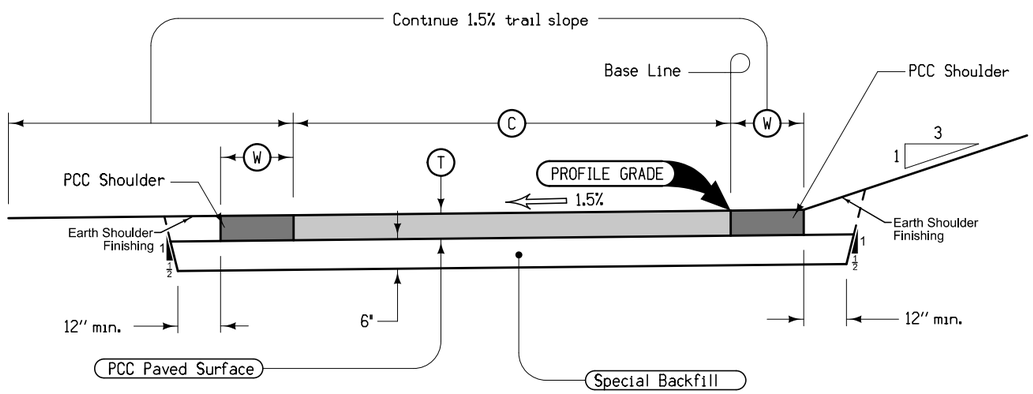

Notes:
Bid item is "Recreational Trail".

Transverse: C at 10' spacing

| STATION TO STATION | | PAVEMENT TYPE | C Feet | T Inches | W TURF SHLDR Left | W TURF SHLDR Right |
|---|---|---|---|---|---|---|
| 9000+04.22 | 9002+40.00 | PCC | 10 | 6 | 3' | 3' |
| | | | | | | |
| | | | | | | |
| | | | | | | |

## TYPICAL CROSS SECTION RECREATIONAL TRAIL - BP1

7402 B
MODIFIED



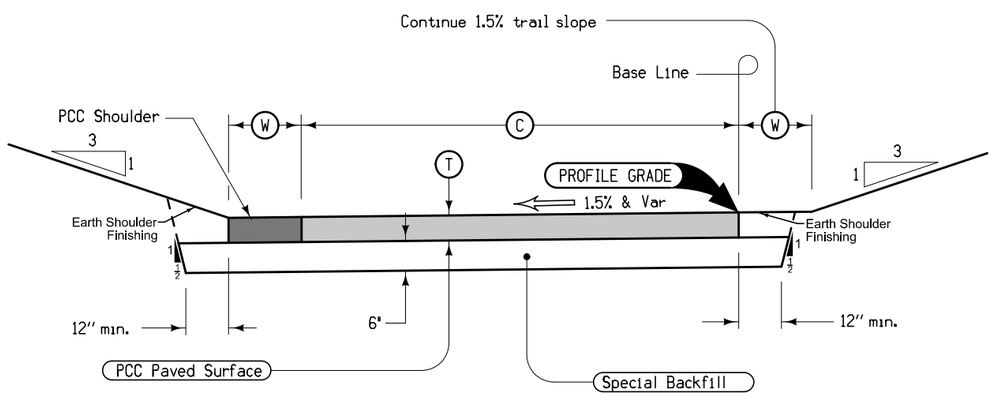

Notes:
Bid item is "Recreational Trail".

Transverse: C at 10' spacing

| STATION TO STATION | | PAVEMENT TYPE | C Feet | T Inches | W PCC SHLDR Left | W PCC SHLDR Right |
|---|---|---|---|---|---|---|
| 9002+40.00 | 9003+30.00 | PCC | 10 | 6 | 3' | 3' |
| | | | | | | |
| | | | | | | |
| | | | | | | |

## TYPICAL CROSS SECTION RECREATIONAL TRAIL - BP1

7402 C
MODIFIED



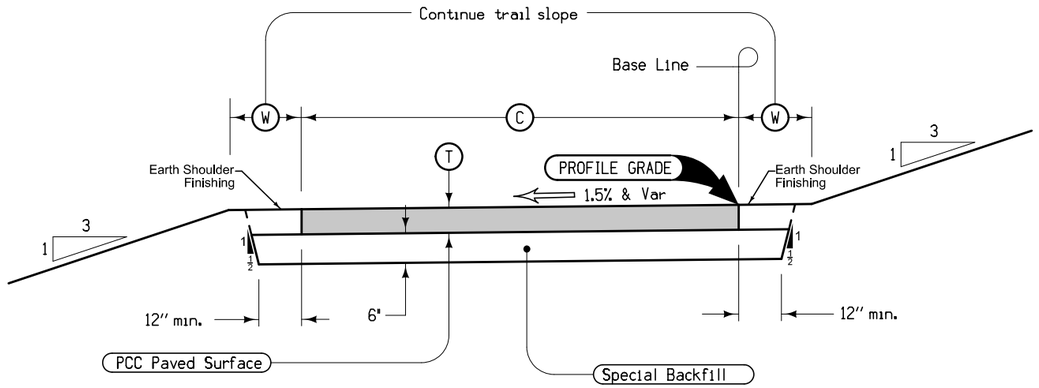

Notes:
Bid item is "Recreational Trail".

Transverse: C at 10' spacing

| STATION TO STATION | | PAVEMENT TYPE | C Feet | T Inches | W SHLDR Left | W SHLDR Right |
|---|---|---|---|---|---|---|
| 9003+30.00 | 9004+20.00 | PCC | 10 | 6 | 3' | Var |
| | | | | | | |
| | | | | | | |
| | | | | | | |

## TYPICAL CROSS SECTION RECREATIONAL TRAIL - BP1

7402 E
MODIFIED



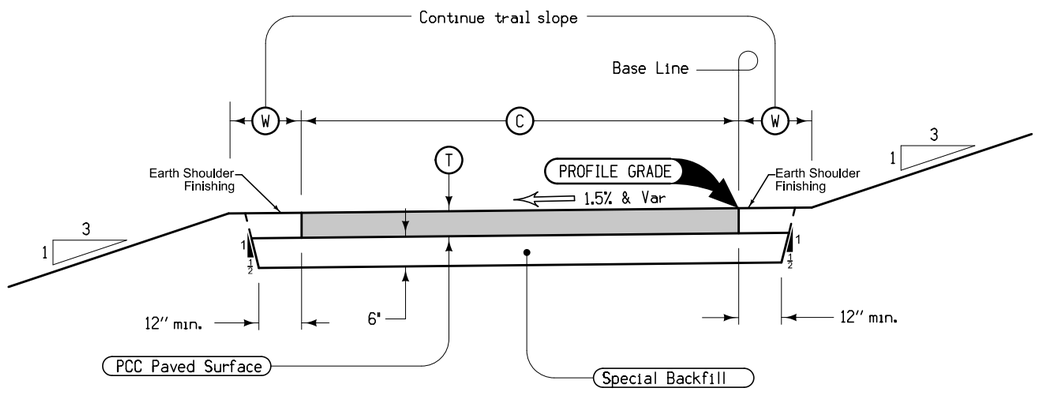

Notes:
Bid item is "Recreational Trail".

Transverse: C at 10' spacing

| STATION TO STATION | | PAVEMENT TYPE | C Feet | T Inches | W TURF SHLDR Left | W TURF SHLDR Right |
|---|---|---|---|---|---|---|
| 9010+57.92 | 9012+21.13 | PCC | 10 | 6 | 3' | 3' |
| | | | | | | |
| | | | | | | |
| | | | | | | |

## TYPICAL CROSS SECTION RECREATIONAL TRAIL - BP2

7402 F
MODIFIED




Notes:
Bid item is "Recreational Trail".

Transverse: C at 10' spacing

| STATION TO STATION | | PAVEMENT TYPE | C Feet | T Inches | W TURF SHLDR Left | W TURF SHLDR Right |
|---|---|---|---|---|---|---|
| 7002+05 | 7003+94.47 | PCC | 10 | 6 | 3' | 3' |
| | | | | | | |
| | | | | | | |
| | | | | | | |

## TYPICAL CROSS SECTION TEMPORARY RECREATIONAL TRAIL - BP3

## SURVEY SYMBOLS

- CP Control Point
- FENO FENO Monument
- BM Bench Mark
- TP TPD Telephone Pedestal
- FO FO1D Fiber Optic Co. 1 - Quality D
- G GL1D Gas Line Co. 1 - Quality D
- GV GV Gas Valve
- FHD Fire Hydrants
- WV WV Water Valve
- W WL1D Water Line Co. 1 - Quality D
- MH Utility Access (Manhole)
- UE Utility Elevation
- ST S ST1D Storm Sewer Co. 1 - Quality D
- IN Storm Sewer Intake
- TV TV1D TV Cable Co. 1 - Quality D
- E1 EL1D Electric Line Co. 1 - Quality D
- BL Topo Breakline
- PRO Profile Shot
- PLG Location of General Photo
- SOP Size of Pipe or Culvert
- PIP Pipe Culvert
- TILE TIL Tile Line
- OUT Tile Outlet
- INB Storm Sewer Beehive Intake
- LIN Miscellaneous Line
- BNK Stream Bank
- D Centerline Draw or Stream (Down)
- EW Edge of Water
- DU Centerline Draw or Stream (Up)
- SP Stream Profile
- TW Top of Water
- WC Wild Card (Misc. Field Shot)
- REF Reference Tie Point
- SWK Sidewalk
- CU Back of Curb
- GU Gutter In Front of Curb
- EP Edge of Paved Roads (ML or SR)
- CON Concrete or A/C Slab
- ENP Edge Paved Entrance & Park Lot
- BRG Bridge
- BCL Bridge Centerline
- C Centerline BL of Road (ML or SR)
- ENT Centerline BL of Entrance
- TRL Trail
- BBB Bottom of Bridge Beam
- SB SHR Shrub
- TDC Tree Deciduous
- SIGN SI Sign
- PPA Power Pole Co. 1
- LUM Luminaire
- TSL Traffic Signal and Luminare
- TSG Traffic Signal
- PR Electic Riser Pole
- MIS Miscellaneous
- BLD Building or Foundation
- GDL Guard Rail Steel
- FCL Chain Link and Security Fence
- UB UB Utility Box
- BD Bridge Deck
- GR Ground Shot
- RET Retaining Walls
- BLS Bridge Low Steel
- SCR Section Corner
- SCR Section Corner
- C Centerline BL of Road (ML or SR)
- Default_Curve Default Curve Feature
- Default Default Feature

## UTILITY LEGEND

FO — Centurylink
Steve Parker
2103 E. University Ave.
Des Moines, IA 50317
(515) 265-0968
Steven.Parker4@centurylink.com

ST S — Davenport
Brian Schadt
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bschadt@c1.davenport.ia.us

W — Iowa American Water Company
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E1 — MidAmerican Energy Company
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(563) 333-8155
wjschierbrock@midamerican.com

G — MidAmerican Energy Company
Nate Miller
2811 5th Ave
Rock Island, IL 61201
(309) 793-4000
NEMILLER@MidAmerican.com

## PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

| LINEWORK | Design Color No. | |
|---|---|---|
| Green | (2) | Existing Topographic Features and Labels |
| Blue | (1) | Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation |
| Magenta | (5) | Existing Utilities |
| **SHADING** | **Design Color No.** | |
| Yellow | (4) | Highlight for Critical Notes or Features |
| Red | (3) | Delineates Restricted Areas |
| Lavender | (9) | Temporary Pavement Shading |
| Gray, Light | (48) | Proposed Pavement Shading |
| Gray, Med | (80) | Proposed Granular Shading |
| Gray, Dark | (112) | Proposed Grade and Pave Shading "In conjunction with a paving project" |
| Brown, Light | (236) | Grading Shading |
| Tan | (8) | Proposed Sidewalk Shading |
| Blue, Light | (230) | Proposed Sidewalk Landing Shading |
| Pink | (11) | Proposed Sidewalk Ramp Shading |

## PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

| LINEWORK | Design Color No. | |
|---|---|---|
| Green | (2) | Existing Ground Line Profile |
| Blue | (1) | Proposed Profile and Annotation |
| Magenta | (5) | Existing Utilities |
| Blue, Light | (230) | Proposed Ditch Grades, Left |
| Black | (0) | Proposed Ditch Grades, Median |
| Rust | (14) | Proposed Ditch Grades, Right |

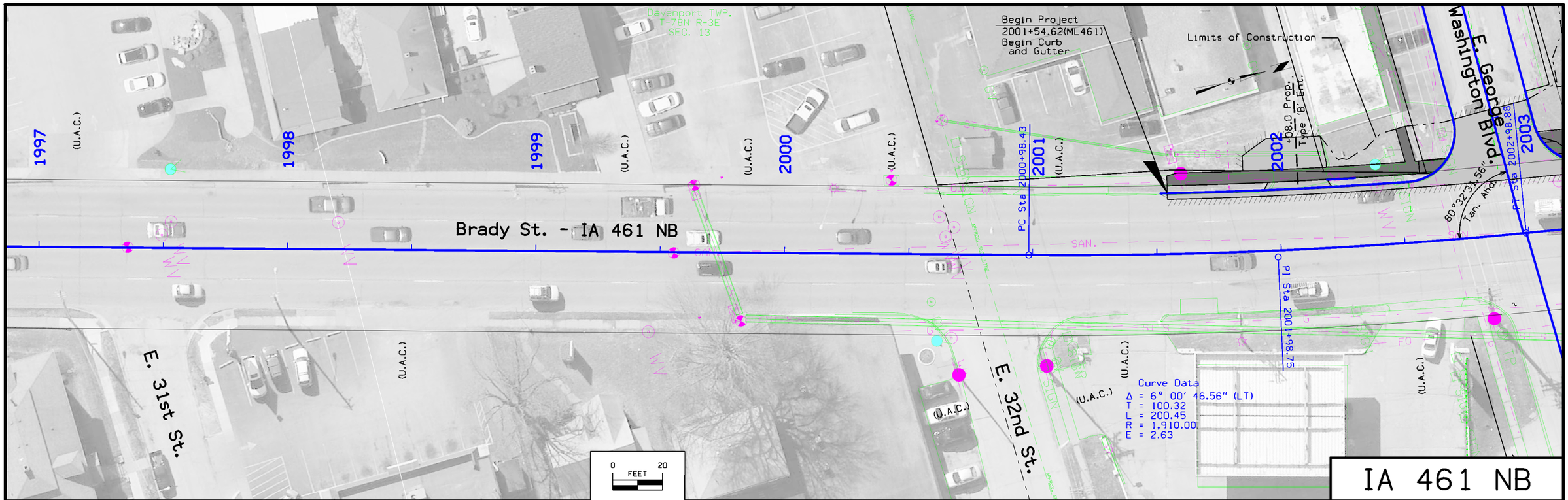
Reference Point
Station
Survey Line
Section Corner
Ground Line Intercept
Saw Cut
Guardrail
Trench Drain
HighTension Cable Guardrail
Sheet Pile
Pavement Removal
Clearing & Grubbing Area

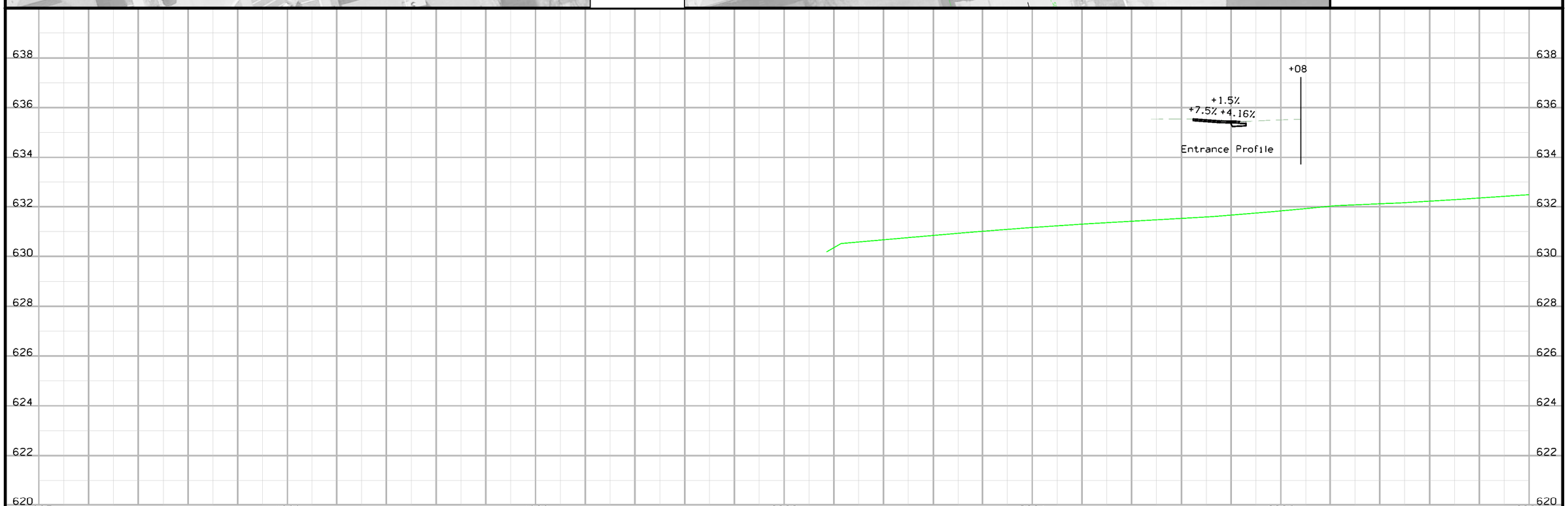
## RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- C/A Access Control
- Property Line

# PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

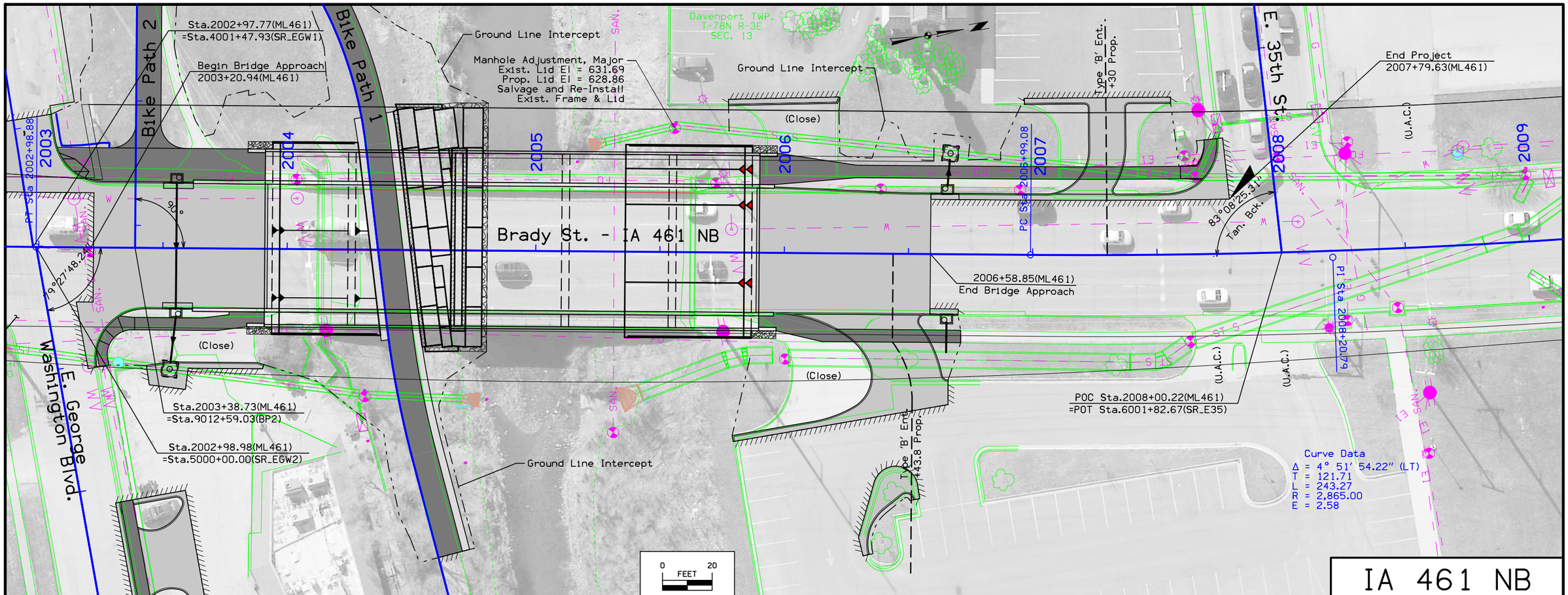
**(COVERS SHEET SERIES D, E, F, & K)**



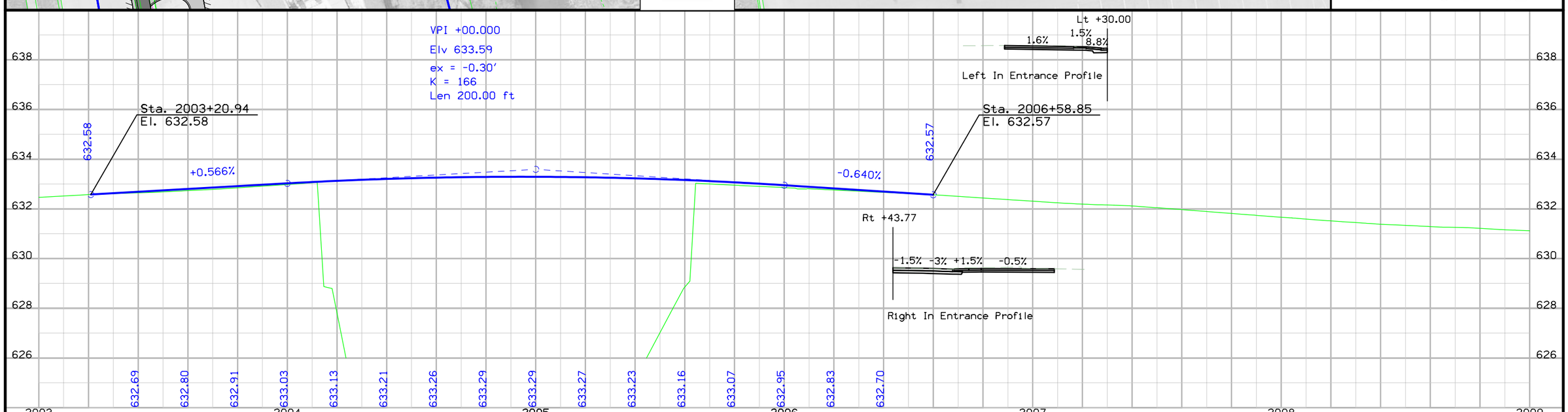




| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER D.2 |
|---|---|---|---|---|---|

9:15:42 AM 12/2/2019 jkoch pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\Projects\8246101016\Design\CADD\Sheet_Files\82461009_D02.dgn




IA 461 NB




| FILE NO. 31849 | ENGLISH | DESIGN TEAM J1a \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER D.3 |
|---|---|---|---|---|---|

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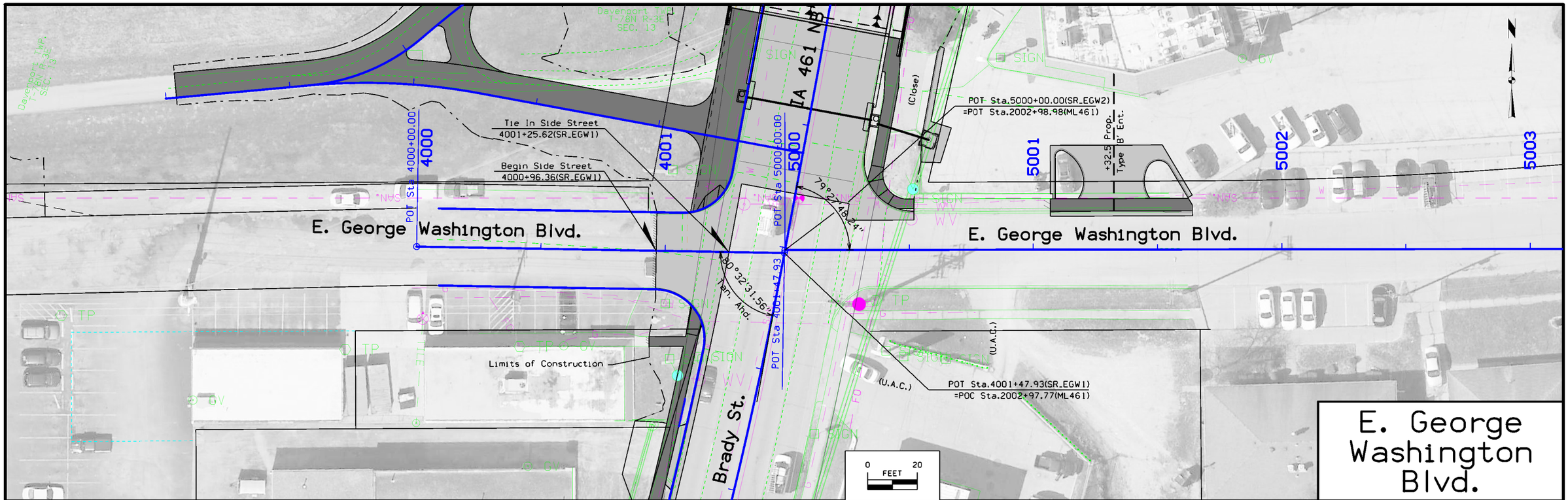


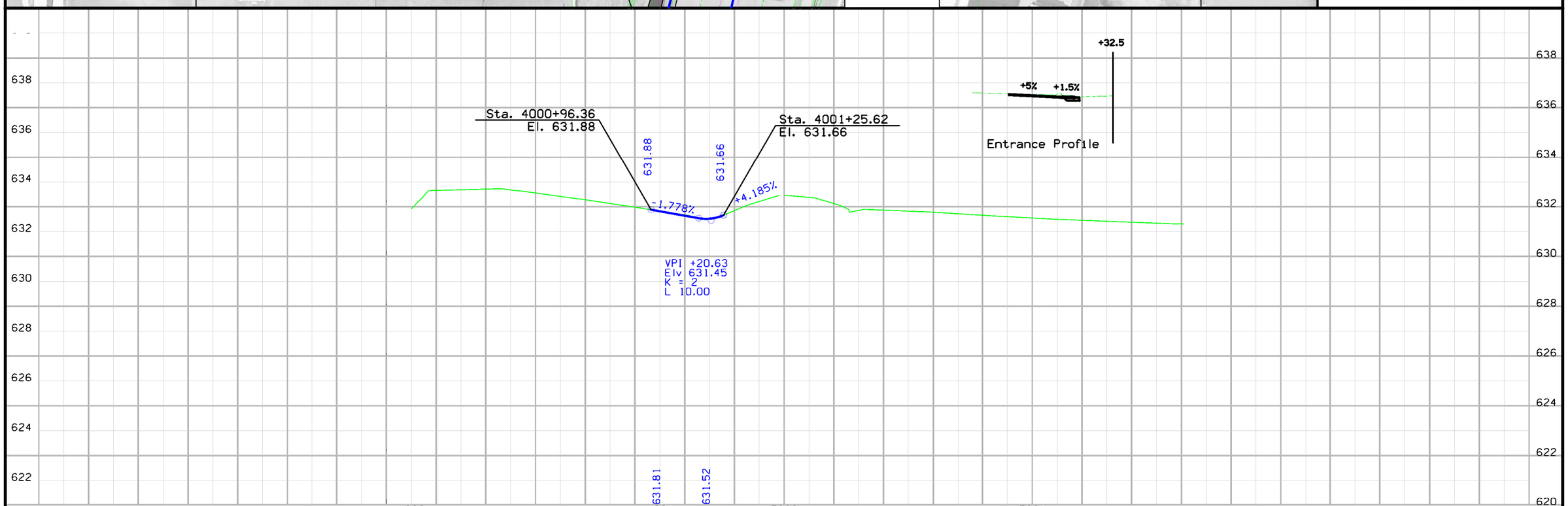


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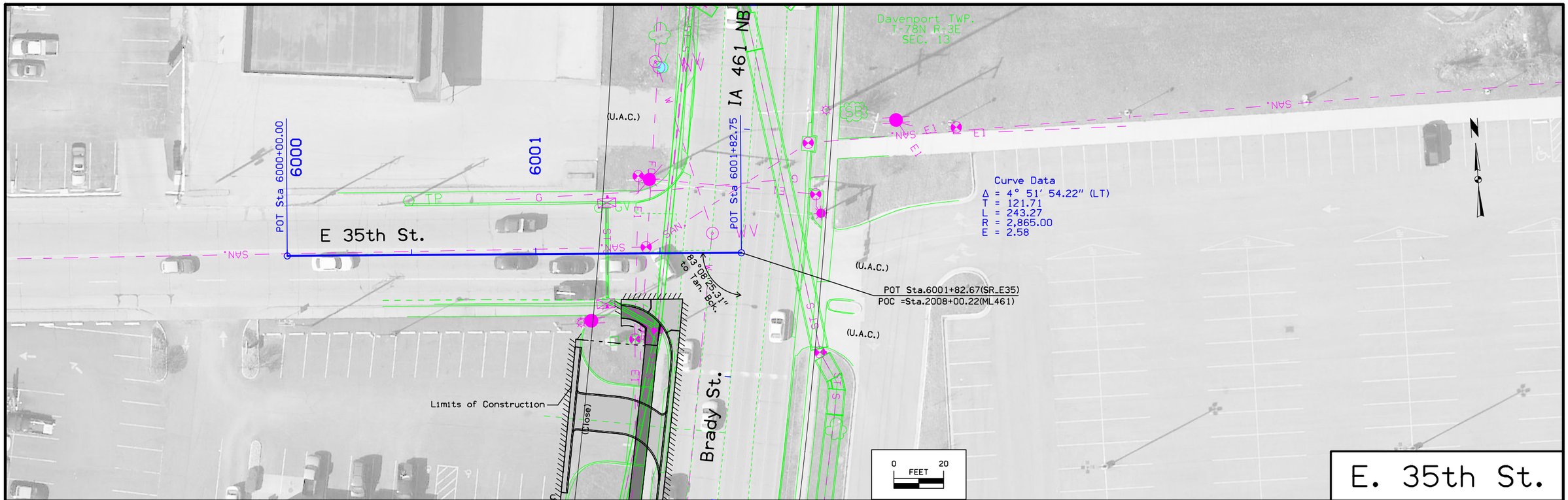

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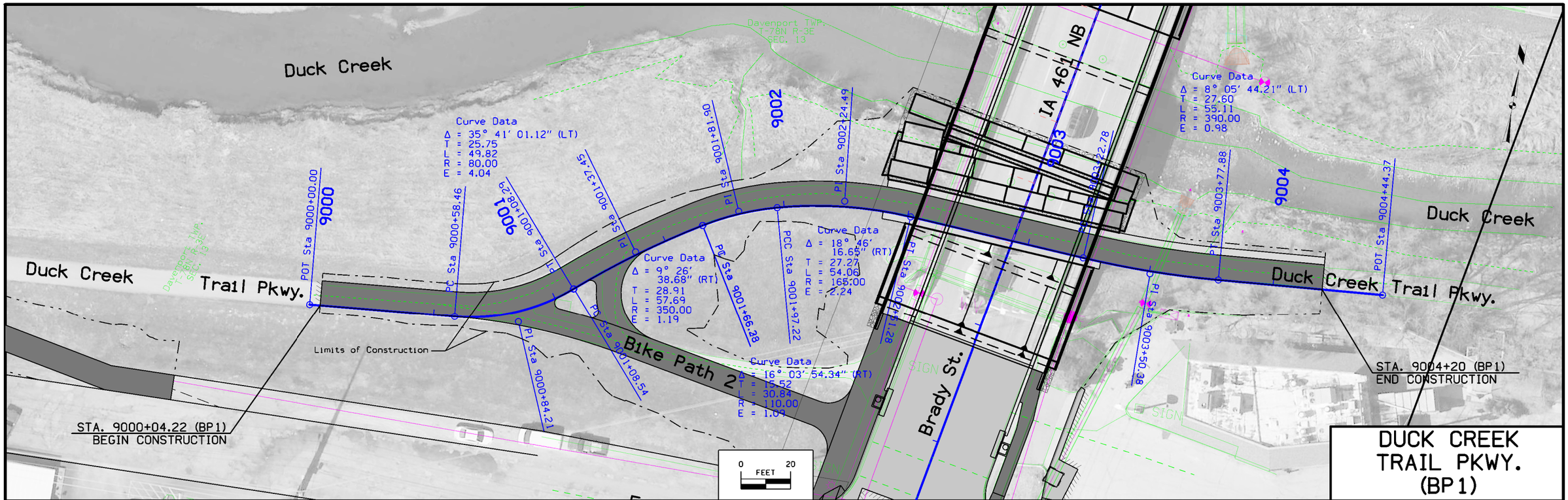


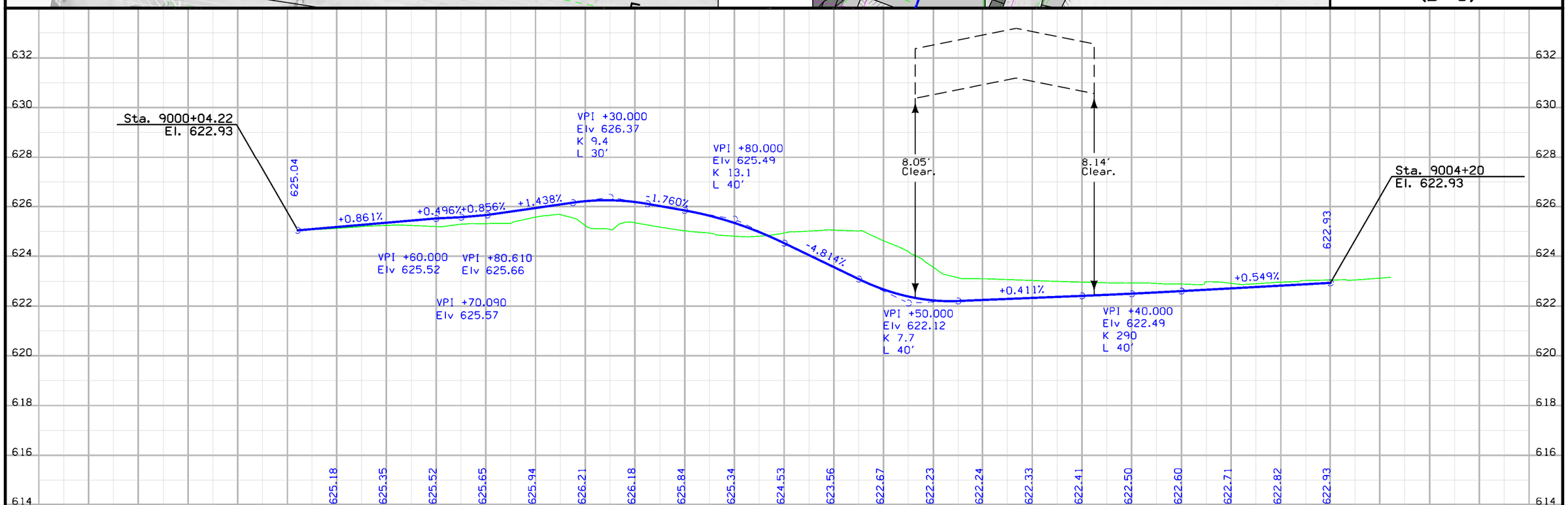


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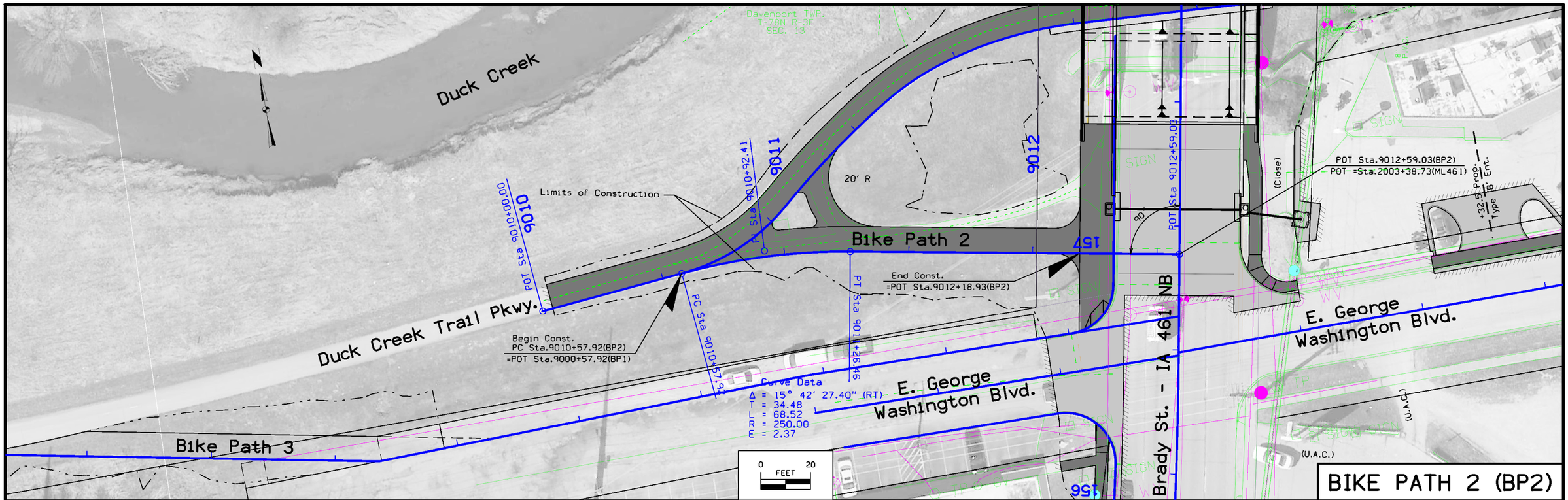


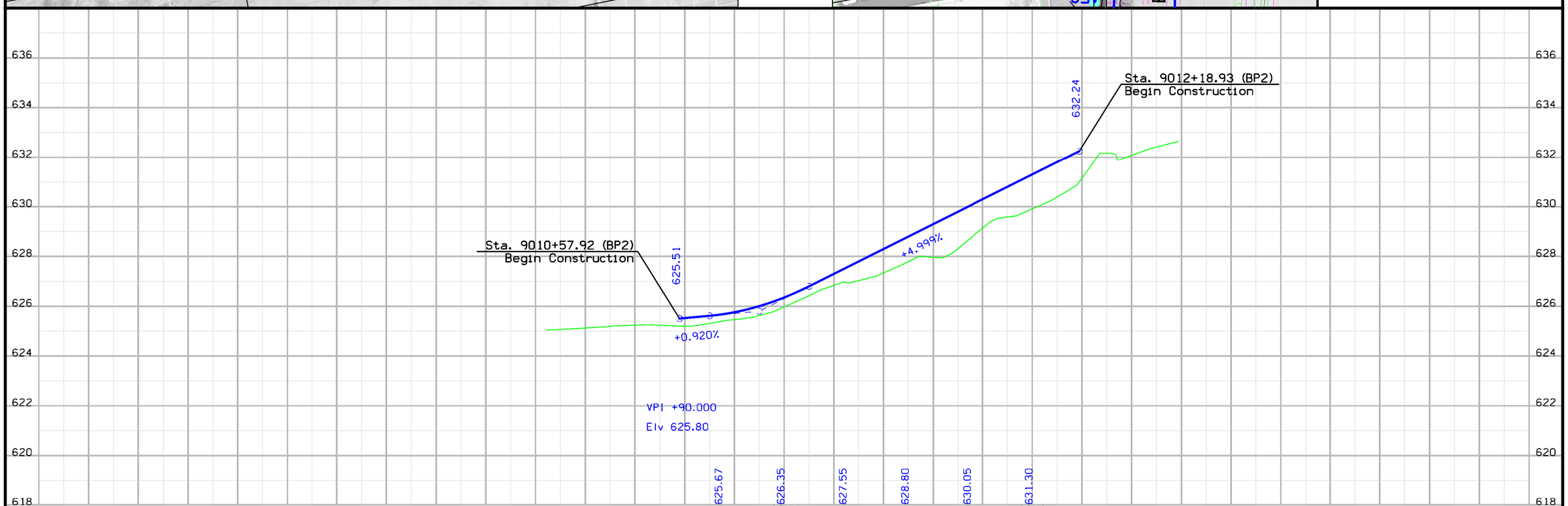


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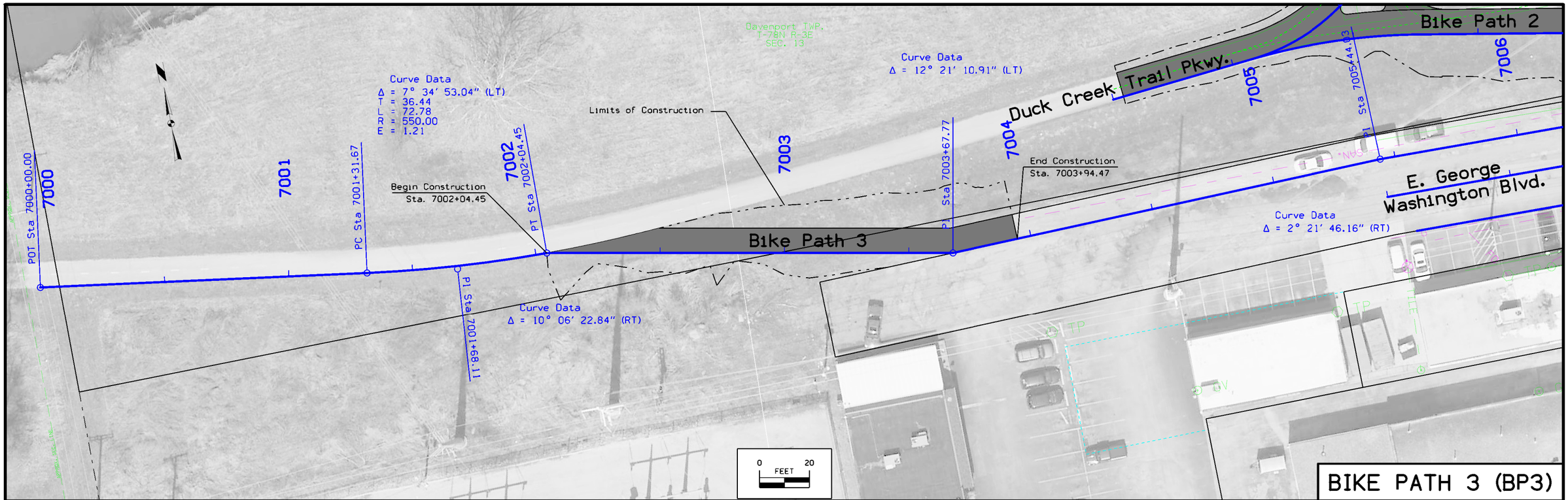


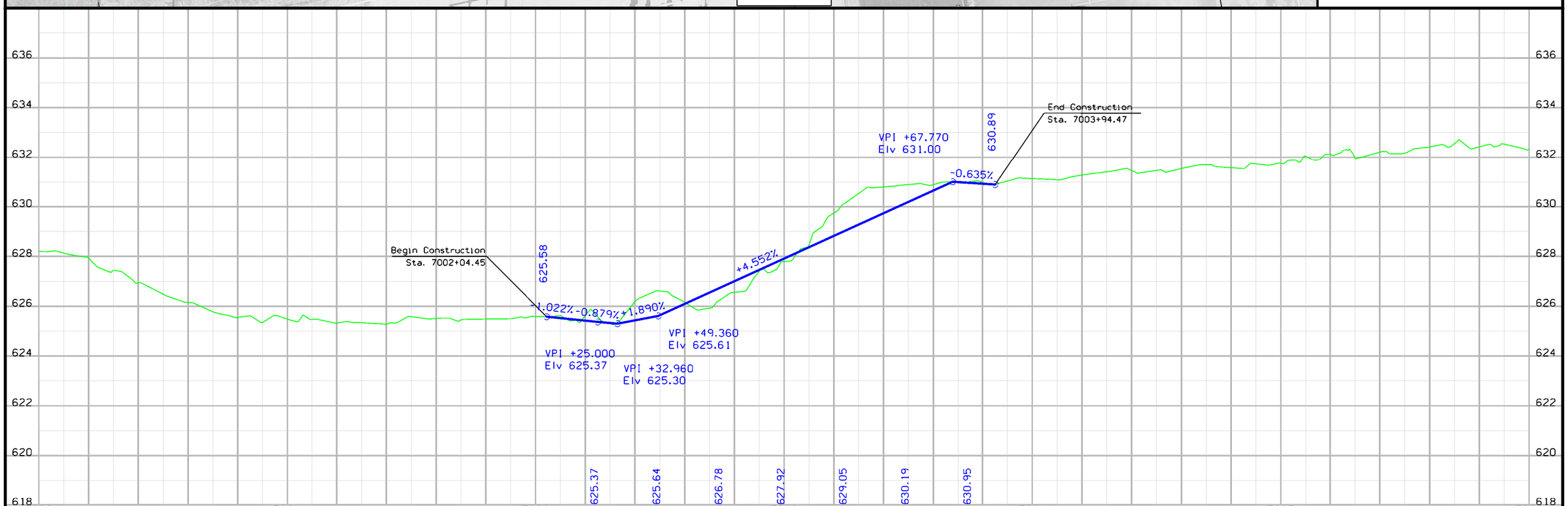


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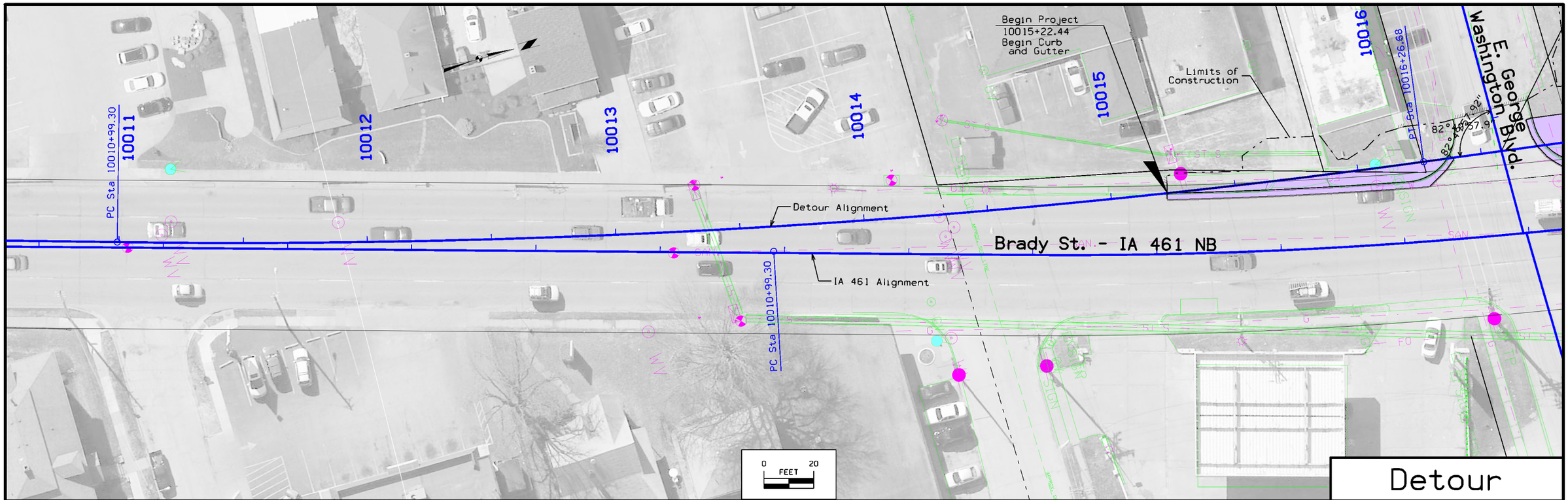
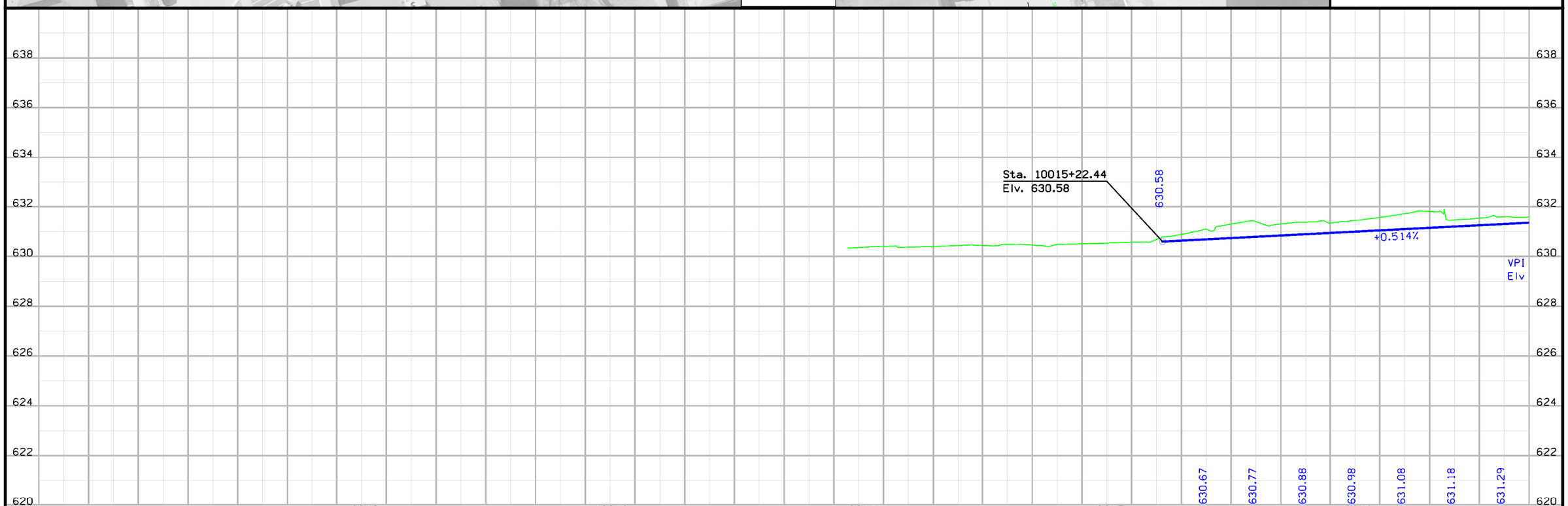



Detour




| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER F.1 |
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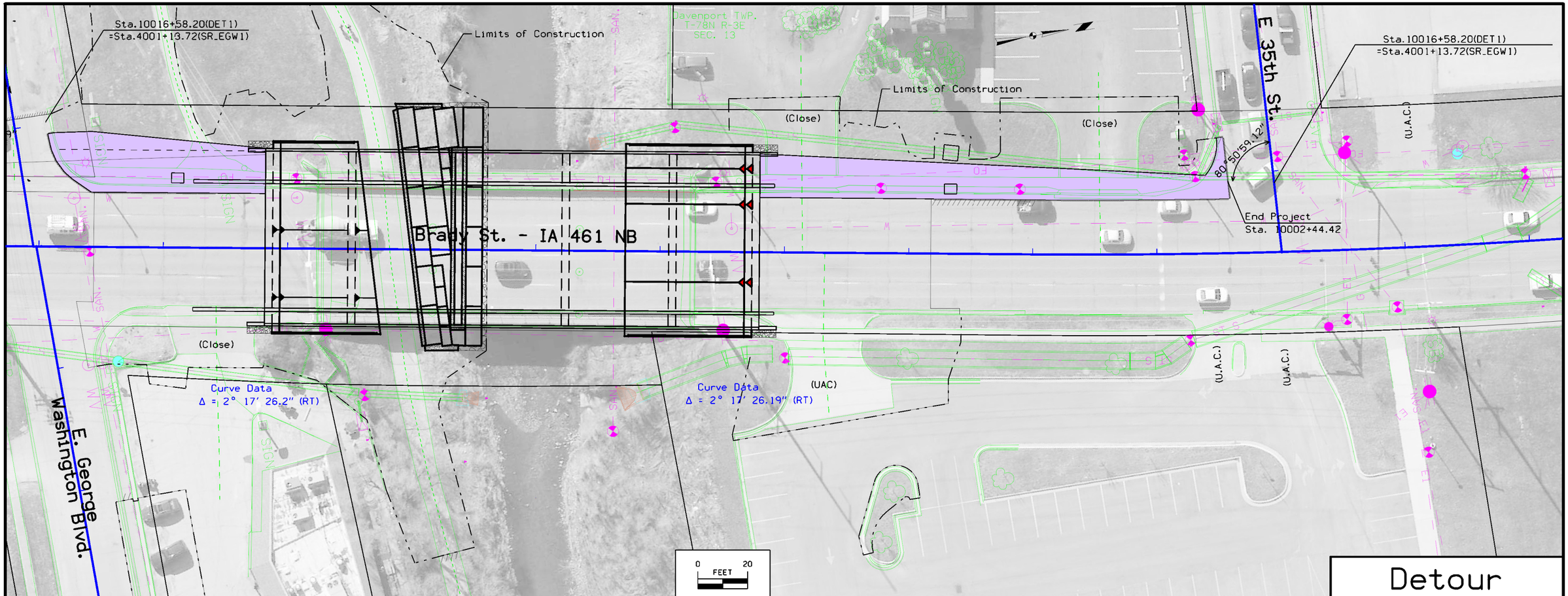


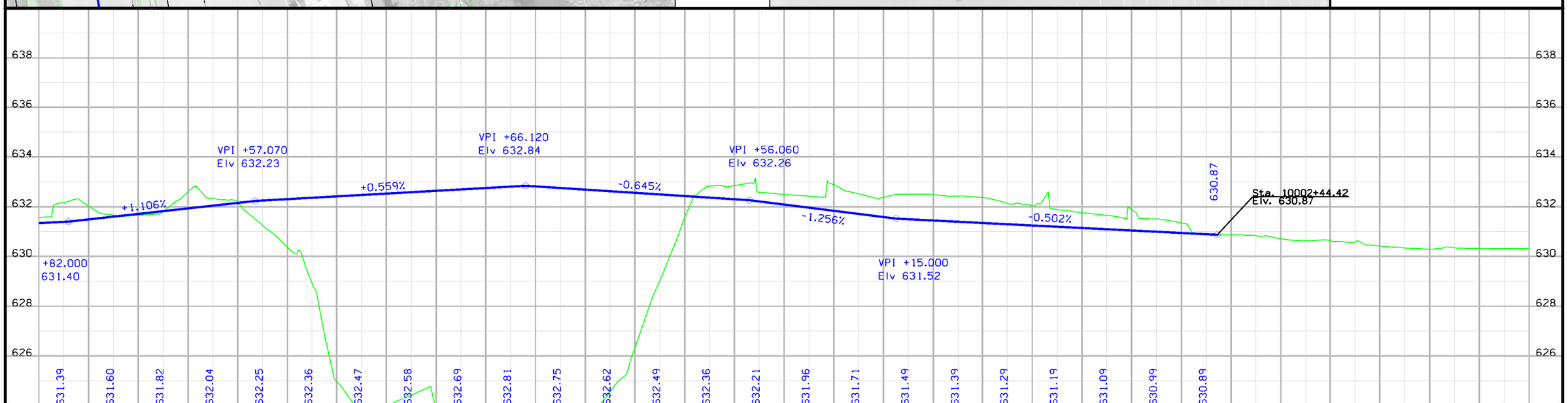


| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER F.2 |
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**Scott County**
**BRF-461-1(9)—38-82**
**Highway 61 / Brady Street**
**Duck Creek 0.4 mi S of US 6 in Davenport (NB)**
**PIN 16-82-461-010**
**Sap-0463.3**

## Party Personnel

Norm Miller – Party Chief
Jonathan Miranda- Party Chief
Charles Hughes - Assistant Survey Party Chief
Dan Messerich – Design Technician Specialist

## Date(s) of Survey

Begin Date 12/21/17
End Date 12/20/18

## General Information

Measurement units for this survey are US survey feet. This survey is for proposed bridge replacement of the northbound IA 461 bridge (Maint. No. 8220.1R061) over Duck Creek, 0.4 miles south of U.S. 6 in Davenport. Project datum and control information is provided by Design Survey Office. This project is a Full Field DTM without Photo control.

## Vertical Control

Vertical datum for this survey is NAVD88 (Computed using Geoid12B). GRS80 Ellipsoidal Height was computed at project Pt. Feno 78 by doing 6-hour static observations. The project control is relative to nearby Iowa RTN Base Stations.

This survey observed 2 NGS Control Monuments with published NAVD88 heights to compare to local ground control:

NGS 2nd order class I mark designated RIC 031 has a published Elev. Of 562.14
Survey Elev. = 562.313

NGS 2nd order class 0 mark designated G 70 has a published Elev. Of 780.10
Survey Elev. = 780.198

This survey observed 2 local area county Control Monuments with published NAVD88 heights to compare to local ground control:

Scott County Control mark GPS 414 has a published Elev. of 635.030
Survey Elev. = 635.317

Scott County Control mark GPS 648 has a published Elev. of 731.291
Survey Elev. = 731.646

No As-Built Plan benchmarks could be located. The As-Built plans for Project No. U-927 Design No.751 appears to be on a different vertical datum, below 100.00 feet. As-Built elevations do not match the surveyed elevations.

## Horizontal Control

The project coordinate system for this survey is Iowa RCS Zone 11 (U.S. Survey Feet). This survey control is relative to IaRTN reference stations. IaRTN Reference Station coordinates are relative to the National Reference Station network datum: NAD83 (2011) for Epoch 2010.00. Coordinates were determined by conducting a six-hour static observation. Additional control points were placed throughout the project using a GNSS Base-Rover setup relative to point Feno 78.

| Point Name | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| TP 300 | 8063982.963 | 21489043.224 | 584.468 | FNG MAG NAIL ON SIDEWALK. THIS MAG NAIL WAS USE TO RELATE TO ELEVATION FROM MARK @ US POSTAL OFFICE BULDING PID= MG0321. SEE HTTPS://WWW.NGS.NOAA.GOV/CGI-BIN/DS_MARK.PRL?PIDBOX=MG0321 |
| FENO 78 | 8074966.258 | 21490011.035 | 625.688 | SET FENO TYPE MONUMENT 73 FEET NORTH OF A NAIL SET ON CL OF GEORGE WASHINGTON BLVD. 6 FEET EAST OF A STEEL FENCE POST @ SPLIT IN BIKE PATH. 27 FEET SOUTHEAST OF A STEEL SIGN POST <NO MOW PRAIRIE STREAM BUFFER>. 132.5 FEET WEST OF A NAIL IN BIKE PATH A/C. 26 FEET EAST OF NAIL SET ON CL OF BIKE PATH IN CRACK WHERE A/C SLAB ENDS AND CONC SLAB BEGINS. |
| D414 | 8074614.278 | 21494983.650 | 635.317 | FND SCOTT COUNTY GPS MONUMENT. SEE HTTP://WWW.SCOTTCOUNTYIOWA.US/GIS/PUB/DOCUMENTS/ GPS_CONTROL/20160114_SCOTT_COUNTY_2015_MONUMENT_RECORDS.PDF |
| 648 | 8084840.612 | 21481722.019 | 731.464 | FND SCOTT COUNTY GPS MONUMENT. SEE HTTP://WWW.SCOTTCOUNTYIOWA.US/GIS/PUB/DOCUMENTS/ GPS_CONTROL/20160114_SCOTT_COUNTY_2015_MONUMENT_RECORDS.PDF |

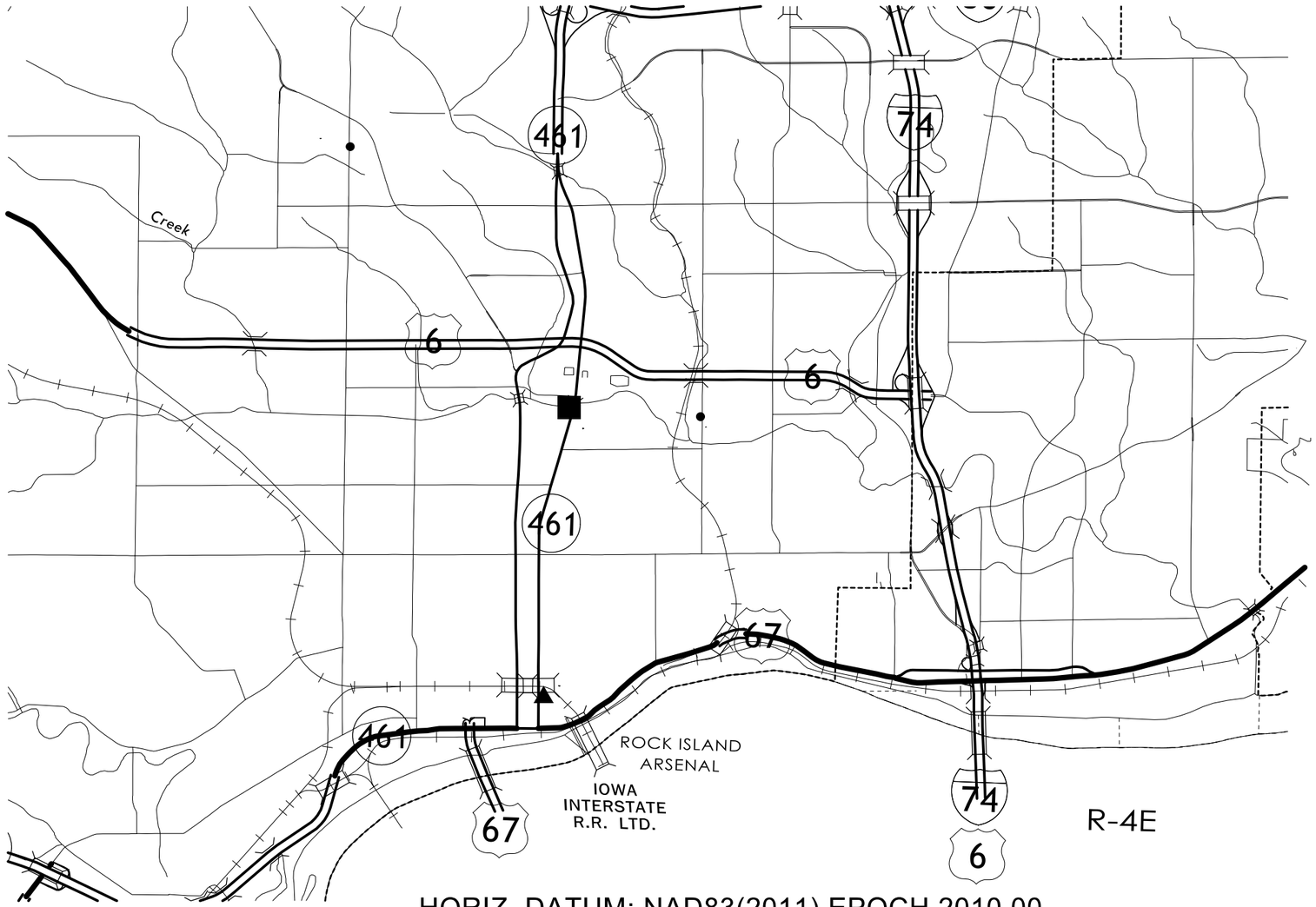
## Alignment Information

The horizontal alignment for this survey is a retrace of As-built Plans No. U297-(2) File No. 14843 (1951 Plans). Survey stationing was equated to the plan South Pier at STA 158+15.5 and N. Pier 158+74.5 and run back and ahead without equation throughout the survey.

## CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points

Primary control is for use with RTK base stations and for RTN validation.
Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.




HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

Ia. Regional Coordinate System Zone 11

Coordinate listing from next sheet will be used with IaRTN for monument recovery. No other reference ties are given.

# HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

## HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

## VERT. DATUM: NAVD88

## Ia. Regional Coordinate System Zone 11

| Point Name | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| TP 300 | 8063982.963 | 21489043.224 | 584.468 | FNG MAG NAIL ON SIDEWALK. THIS MAG NAIL WAS USE TO RELATE TO ELEVATION FROM MARK @ US POSTAL OFFICE BULDING PID= MG0321. SEE HTTPS://WWW.NGS.NOAA.GOV/CGI-BIN/DS_MARK.PRL?PIDBOX=MG0321 |
| FENO 78 | 8074966.258 | 21490011.035 | 625.688 | SET FENO TYPE MONUMENT 73 FEET NORTH OF A NAIL SET ON CL OF GEORGE WASHINGTON BLVD. 6 FEET EAST OF A STEEL FENCE POST @ SPLIT IN BIKE PATH. 27 FEET SOUTHEAST OF A STEEL SIGN POST <NO MOW PRAIRIE STREAM BUFFER>. 132.5 FEET WEST OF A NAIL IN BIKE PATH A/C. 26 FEET EAST OF NAIL SET ON CL OF BIKE PATH IN CRACK WHERE A/C SLAB ENDS AND CONC SLAB BEGINS. |
| D414 | 8074614.278 | 21494983.650 | 635.317 | FND SCOTT COUNTY GPS MONUMENT. SEE HTTP://WWW.SCOTTCOUNTYIOWA.US/GIS/PUB/DOCUMENTS/ GPS_CONTROL/20160114_SCOTT_COUNTY_2015_MONUMENT_RECORDS.PDF |
| 648 | 8084840.612 | 21481722.019 | 731.464 | FND SCOTT COUNTY GPS MONUMENT. SEE HTTP://WWW.SCOTTCOUNTYIOWA.US/GIS/PUB/DOCUMENTS/ GPS_CONTROL/20160114_SCOTT_COUNTY_2015_MONUMENT_RECORDS.PDF |

**To:** **Nikki Cuva/Jeff Larson**
**Office of Right of Way Design**

**Final Draft:** May 13th, 2020

**District 6:** **Jim Schnoebelen**
**Jesse Tibodeau**

**Project Details:**
PIN: **16-82-461-010**
Project #: **BRF-461-1(9)—38-82**
ROW #: **NHSN-461-1(10)—2R-82**

**TAS:** **Jan Laaser-Webb**
**Office of Traffic & Safety**

**From:** **Leilah Armstrong**
**Office of Traffic & Safety**

**SCOTT COUNTY**
**Duck Creek 0.4 mi. S. of U.S. 6 in Davenport (NB)**

**SUBJECT:** **Access Review**

---

## PROJECT LOCATION AND DESCRIPTION:

This project is the proposed Duck Creek Bridge of U.S. 461 in Davenport. The access classification for IA 461 is based off Priority 4A. Due to site distance issues created from the construction of the bridge the closure of some entrances will be required.

## ACCESS PRIORITY CLASSIFICATION:

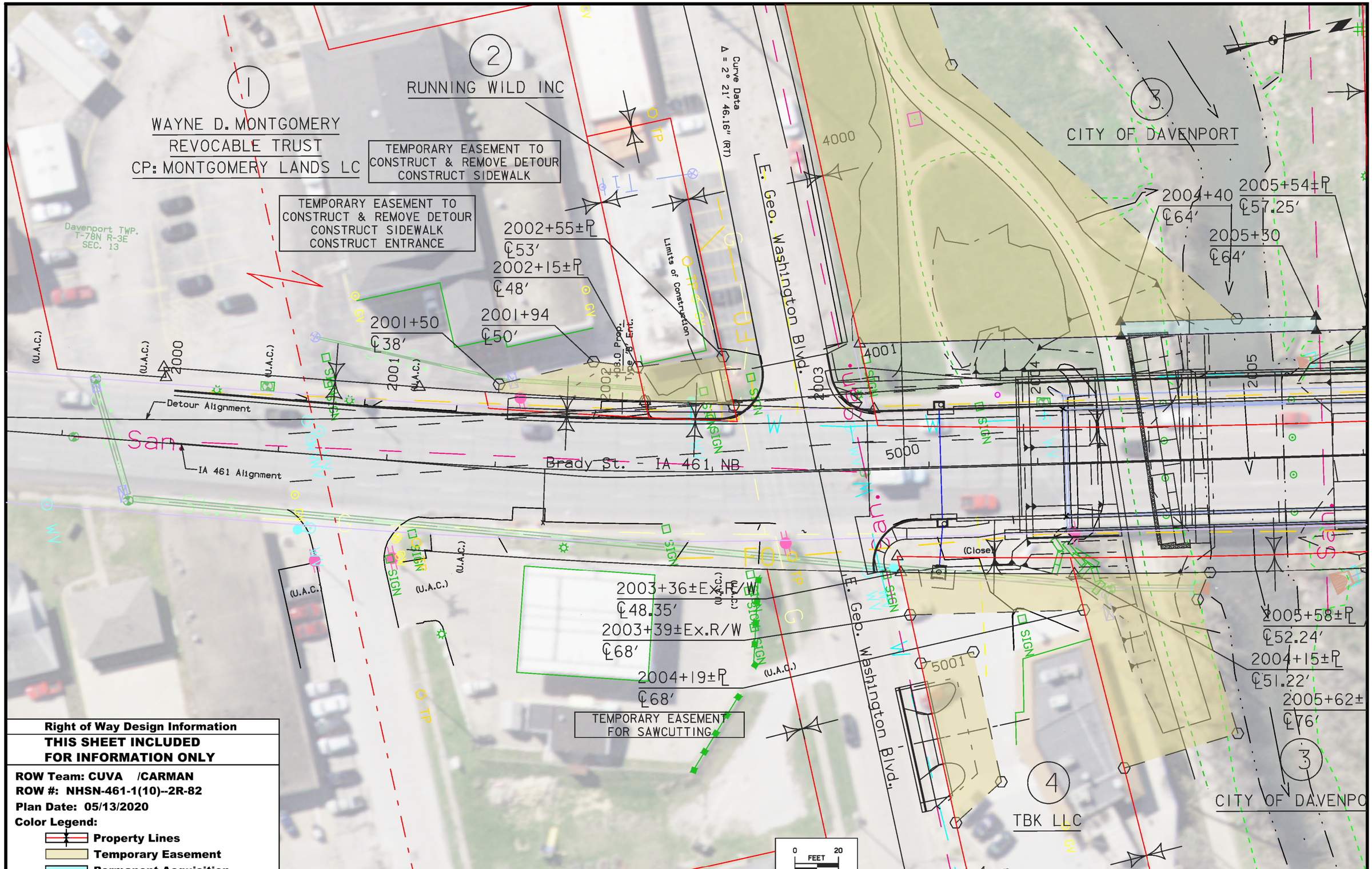
For Priority 4A facilities the minimum allowable spacing between access locations is 600 feet.

## ACCESS CONTROL LIMITS:

No access shall be allowed between stations **2002+98 to 2007+85** (between George Washington Blvd. and E. 35th St.) on the west side of the roadway except for the left-in only at station **2007+30**. No access shall be allowed between approximately stations **2002+98 to 2014+95** (between George Washington Blvd. and E. 36th St.) on the east side of the roadway except for the right-in only at station **2006+43**, the existing full access at station **2007+85,** and the existing full access at approximately station **2012+35**.

**ACCESS LOCATION DETAILS:**

| Location | Access | Comments |
|---|---|---|
| | | |
| 2001+54 | - | Begin Project Construction |
| 2000+75 RT | **E. 32nd St.** | Existing |
| 2001+15 LT | Type B Entrance | Existing |
| 2001+35 RT | Type B Entrance | Existing |
| 2002+08 LT | **Type B Entrance** | Proposed |
| 2002+55 RT | Type B Entrance | Existing |
| 2002+98 | **George Washington Blvd.** | Existing |
| 2003+70 RT | Type B Entrance | **Close** |
| 2006+05 LT | Type B Entrance | **Close** |
| 2006+15 RT | Type B Entrance | **Close** |
| 2006+43 RT | Type B Entrance | Proposed RI only (District approved variance) |
| 2007+25 LT | Type B Entrance | **Close** |
| 2007+30 LT | Type B Entrance | Proposed LI only (District approved variance) |
| 2007+85 RT | Type B Entrance | Existing |
| 2008+00 LT | **E. 35th St.** | Existing |
| 2012+35 RT | Type B Entrance | Existing |
| 2007+79 | - | End Project Construction |
| | | |
| 5001+32 LT | Type B Entrance | Proposed |




**Right of Way Design Information**

**THIS SHEET INCLUDED FOR INFORMATION ONLY**

**ROW Team: CUVA /CARMAN**
**ROW #: NHSN-461-1(10)--2R-82**
**Plan Date: 05/13/2020**
**Color Legend:**
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

| FILE NO. 31849 | ENGLISH | DESIGN TEAM J1a \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER H.1 |
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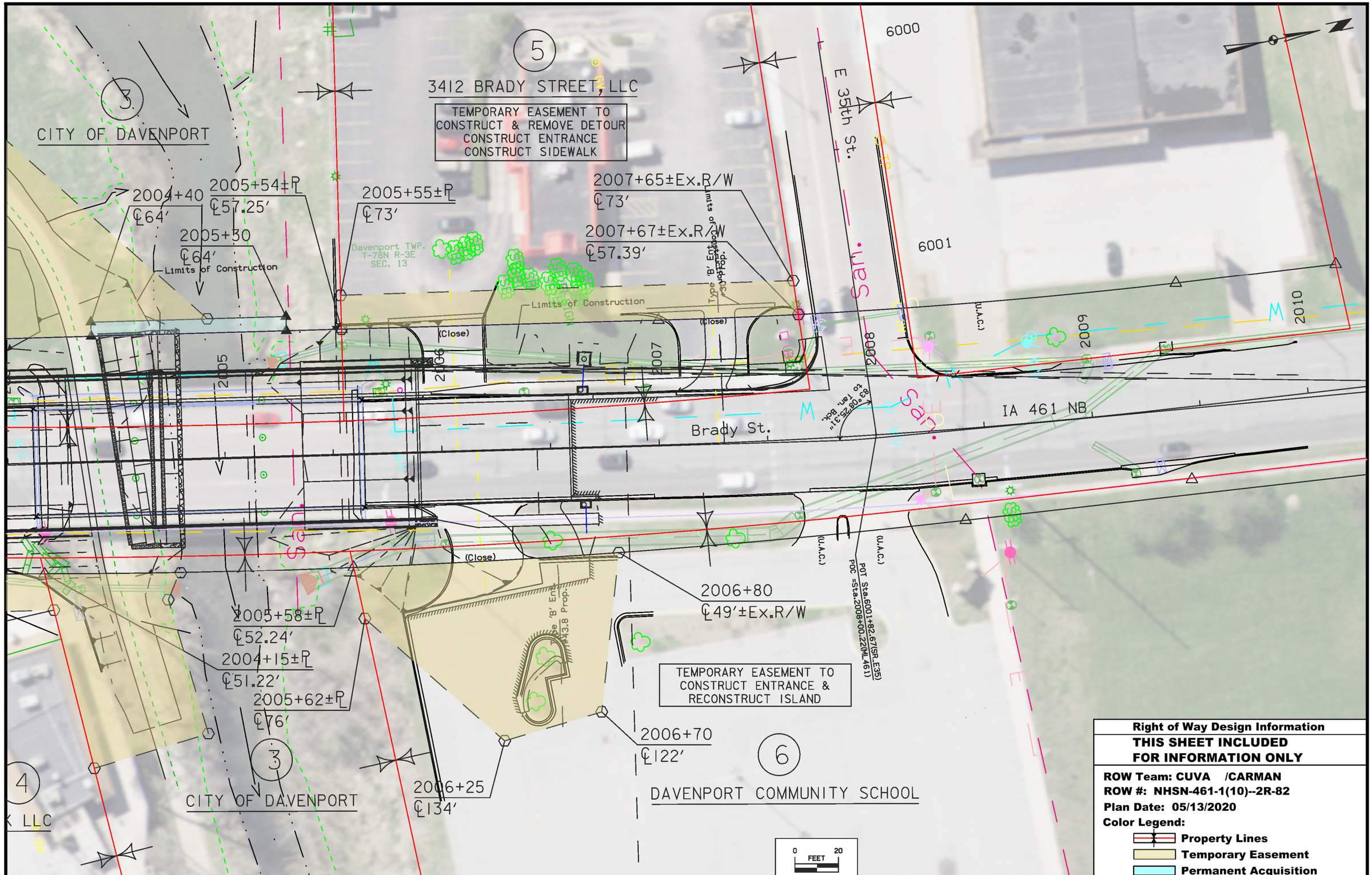


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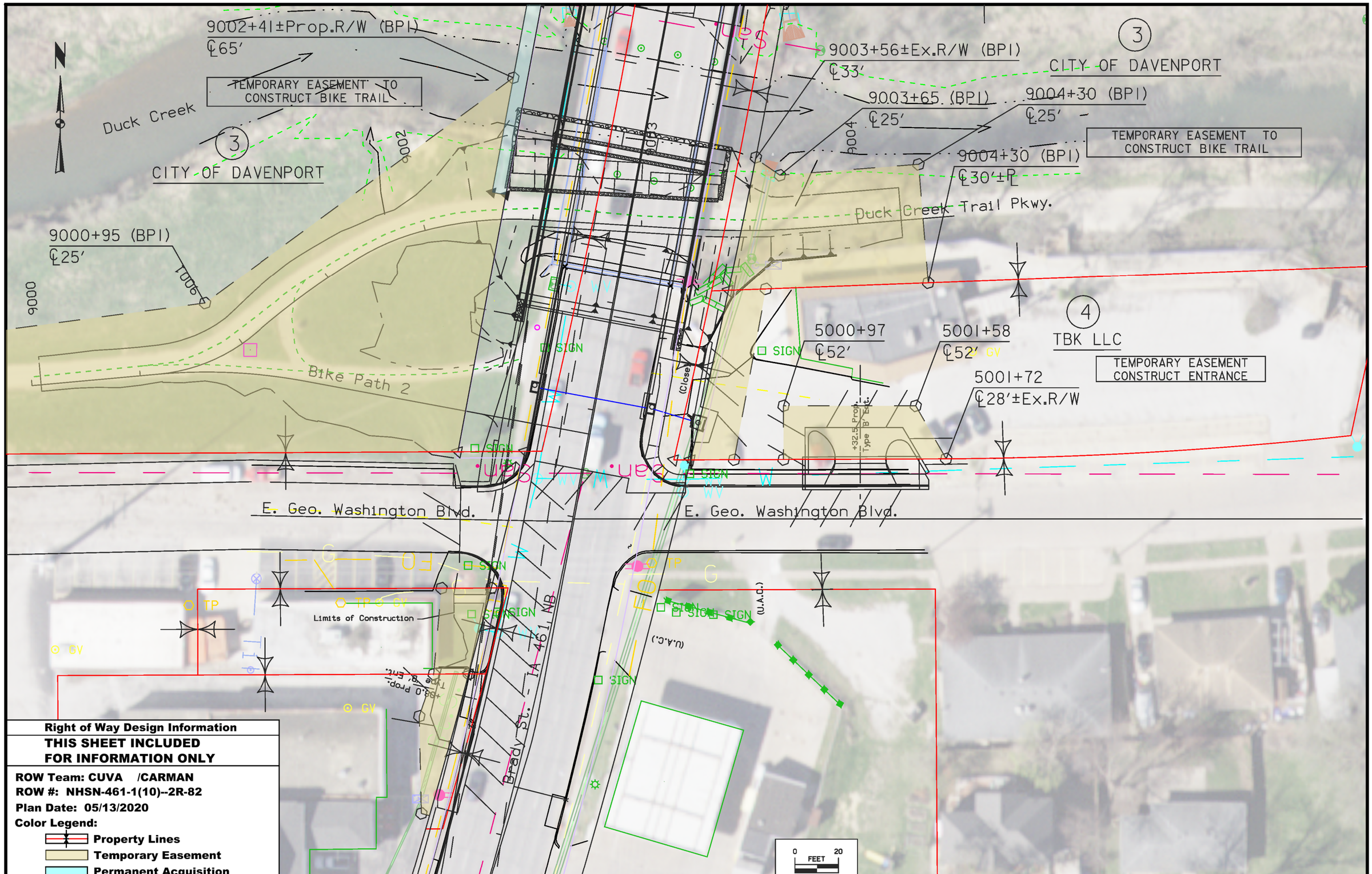


**Right of Way Design Information**

**THIS SHEET INCLUDED FOR INFORMATION ONLY**

**ROW Team: CUVA /CARMAN**
**ROW #: NHSN-461-1(10)--2R-82**
**Plan Date: 05/13/2020**
**Color Legend:**

- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

| FILE NO. 31849 | ENGLISH | DESIGN TEAM Jia \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER HE.1 |
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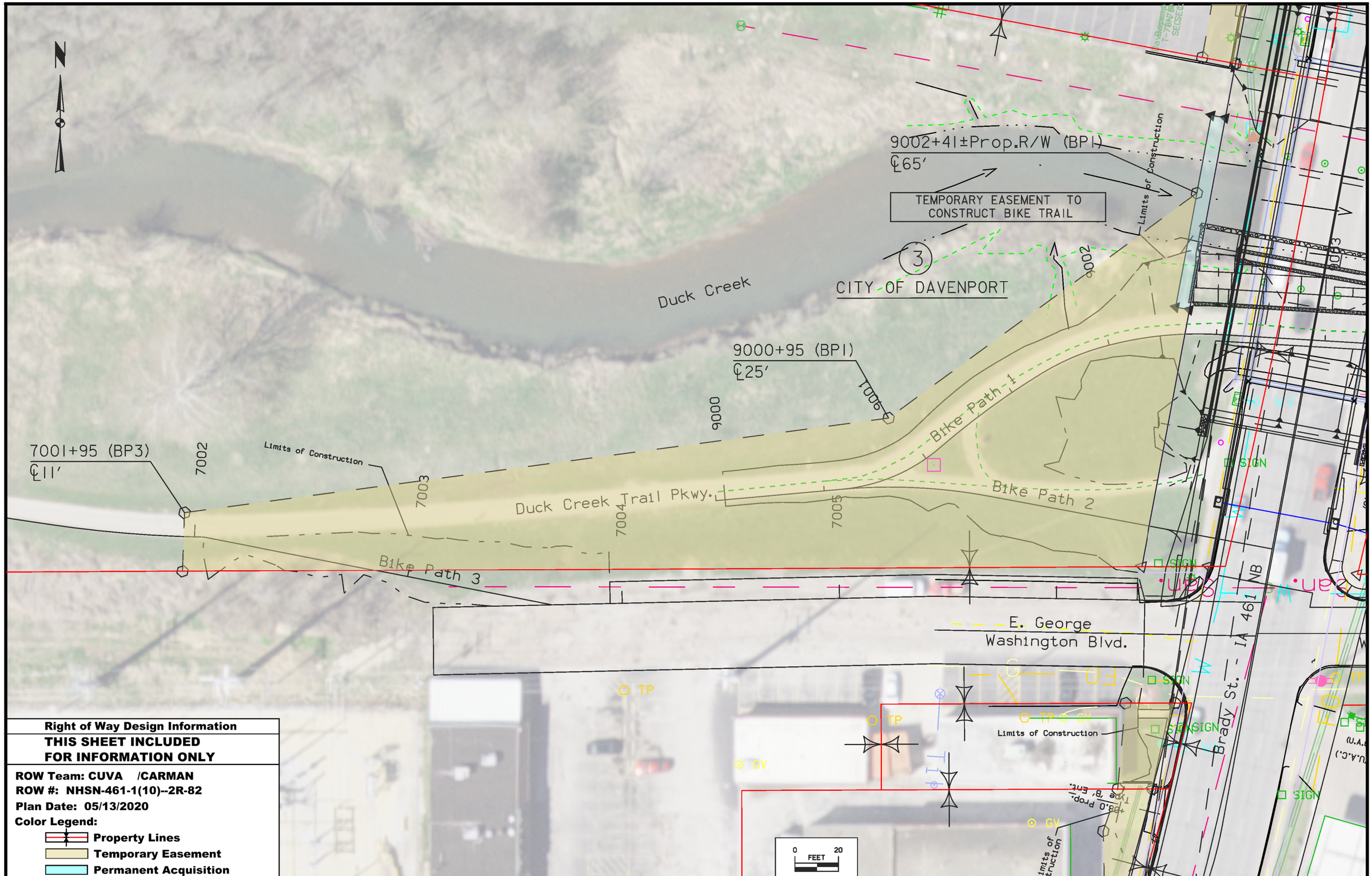


**Right of Way Design Information**

**THIS SHEET INCLUDED FOR INFORMATION ONLY**

**ROW Team: CUVA /CARMAN**
**ROW #: NHSN-461-1(10)--2R-82**
**Plan Date: 05/13/2020**
**Color Legend:**

- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

| FILE NO. 31849 | ENGLISH | DESIGN TEAM Jia \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER HE.2 |
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108-23A
08-01-08

## TRAFFIC CONTROL PLAN

Two Mainline lanes of traffic shall be maintained at all times.
One lane of traffic shall be maintained on E. George Washington Blvd. at all times.
East and west pedestrian traffic shall be maintained across IA 461 using temporary traffic signals for the duration of the project.
North and south pedestrian traffic shall be maintained across the bridge for Stage 1 only. The bridge will be closed to pedestrian traffic during Stage 2.

113-2
04-16-13

## PEDESTRIAN PATH CLOSURES

Refer to TC-601.

*Assumes 6 foot wide barricade.
Closures may need to be removed and re-established.

| Location | Side | Type III Barricades* No. | Remarks |
|---|---|---|---|
| 2001+50 | Lt. | 1 | US 461 |
| 2003+30 | Rt. | 1 | US 461 |
| 2007+70 | Rt. | 1 | US 461 |
| 2007+80 | Lt. | 1 | US 461 |
| 4000+80 | Rt. | 1 | E George Washington Blvd. |
| 5002+00 | Lt. | 1 | E George Washington Blvd. |
| 6001+00 | Rt. | 1 | E. 35th St. |
| 9000+50 | Lt. | 1 | Bikepath 1 |
| 9004+50 | Lt. | 1 | Bikepath 1 |

111-01
04-17-12

## COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

| Project | Type of Work |
|---|---|
| None Provided | |

108-26A
08-01-08

## STAGING NOTES

Pre-Stage:
Construction:
Construct temporary bike path on the west leg of E. George Washington Blvd. and temporary bike path connector on the far east leg of E. George Washington Blvd..

Stage 1A:
Traffic Control:
Shift two lane mainline traffic onto east side lanes.
Close mainline entrances to Arby's northwest of bridge, and bike paths.
Maintain alternating two-way traffic on E. George Washington Blvd. to the west.
Construction:
Construct west side of bridge, partial west side bridge approaches, and temporary connection to E. George Washington Blvd. to the west.
Construct new entrance to restaurant on north side of E. George Washington Blvd. to the east.

Stage 1B:
Traffic Control:
Maintain alternating two-way traffic on E. George Washington Blvd. to the west.
Construction:
Construct partial west side bridge approaches south of the bridge.

Stage 2:
Traffic Control:
Shift two lane mainline traffic onto detour and new bridge.
Close mainline entrance to The Bike Rack Sports Bar and Grill southeast of the bridge.
Open side street entrance to The Bike Rack Sports Bar and Grill southeast of the bridge.
Construction:
Construct east side of the bridge, entrance to stadium northeast of the bridge, and sidewalk northeast of the bridge.

Stage 3:
Traffic Control:
Shift three lane mainline traffic onto east side lanes.
Construction:
Remove detour.
Construct sidewalk, and curb and gutter on west side.
Construct E. George Washington Blvd. to the west, and southwest E. 35th St. return.
Construct bikepaths.

Stage 4:
Open Project to normal traffic.

108-25
10-21-14

## 511 TRAVEL RESTRICTIONS

| Route | Direction | County | Location Description | Feature Crossed | Object Type | Maint. Bridge No., Structure ID, or FHWA No. | Type of Restriction | Existing Measurement | Construction Measurement | Construction Measurement as Signed | Projected As Built Measurement | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | No Restrictions Anticipated | | | | | | | | | |

## CROSS SECTION VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

| SHADING | Design Color No. | |
|---|---|---|
| Green, Light | (225) | Existing Pavement Shading |
| Gray, Light | (48) | Previously Constructed Pavement Shading |
| Gray, Med | (80) | Previously Constructed Granular Surface Shading |
| Blue, Light | (230) | Proposed Pavement Shading |
| Lavender | (9) | Temporary Pavement Shading |
| Brown, Med | (237) | Future Proposed Pavement Shading |

## CROSS SECTION VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

| | |
|---|---|
| Pavement Removal | Proposed Granular Shoulder |
| Proposed Granular Subbase | Temporary Shoulder |
| Proposed Special Backfill | Existing Shoulder Strengthening |
| Temporary Barrier Rail | Permanent Barrier Rail |
| | Channelizing Device |

## PLAN VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

| LINEWORK | Design Color No. | |
|---|---|---|
| Green | (2) | Existing Topographic Features and Labels |
| Magenta | (5) | Pavement Marking Call Outs |
| Blue | (1) | Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation |
| Yellow | (4) | Pavement Markings, Yellow |
| Off White | (254) | Pavement Markings, White |
| Violet | (15) | Temporary barrier rail, Unpinned |
| Flush Orange | (228) | Temporary barrier rail, Pinned |
| **SHADING** | **Design Color No.** | |
| Green, Light | (225) | Existing Pavement Shading |
| Gray, Light | (48) | Previously Constructed Pavement Shading |
| Gray, Med | (80) | Proposed Granular Surface Shading |
| Gray, Med | (80) | Previously Constructed Granular Surface Shading |
| Blue, Light | (230) | Proposed Pavement Shading |
| Lavender | (9) | Temporary Pavement Shading |
| Brown, Light | (236) | Proposed Grading Limits Shading |
| Pink, Dark | (13) | Proposed MSE or CIP Wall Shading |
| Red | (3) | Proposed Bridge Shading and Sign Trusses |
| Black w/Gray, Light Fill | (0,48) | Previously Constructed Structure |

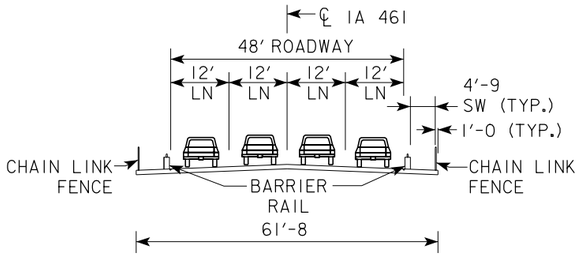
## PLAN VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

| | |
|---|---|
| Channelizing Device | Crash Cushion (Temp or Perm) |
| Drum | Traffic Signal |
| Temporary Lane Separator | Flagger |
| Tubular Marker | Temporary Floodlighting |
| Channelizer Marker | Traffic Sign |
| Concrete Barrier Marker | Type III Barricade |
| Delineator | Type A Warning Light |
| Temporary Barrier Rail | Direction of Traffic |
| Pavement Removal | Safety Closure |
| Sand Barrel Layout | Lane Identification |

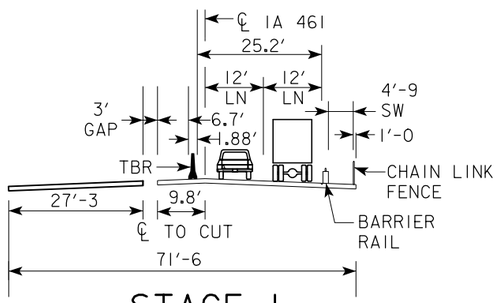
NOTE: Device spacing according to Standard Road Plans unless specifically dimensioned.

# TRAFFIC CONTROL AND STAGING LEGEND AND SYMBOL INFORMATION SHEET

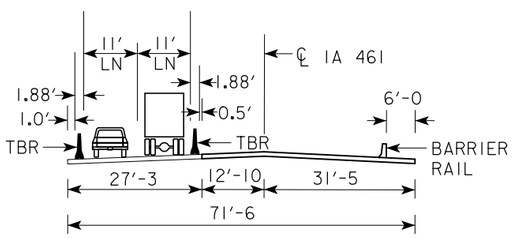
**(COVERS SHEET SERIES J)**



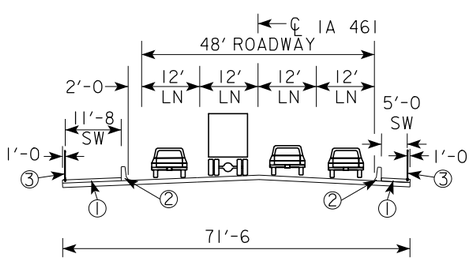

EXISTING TYPICAL SECTION




STAGE 1




STAGE 2




① RAISED SIDEWALK
② BARRIER RAIL
③ FENCE

FINISHED SECTION

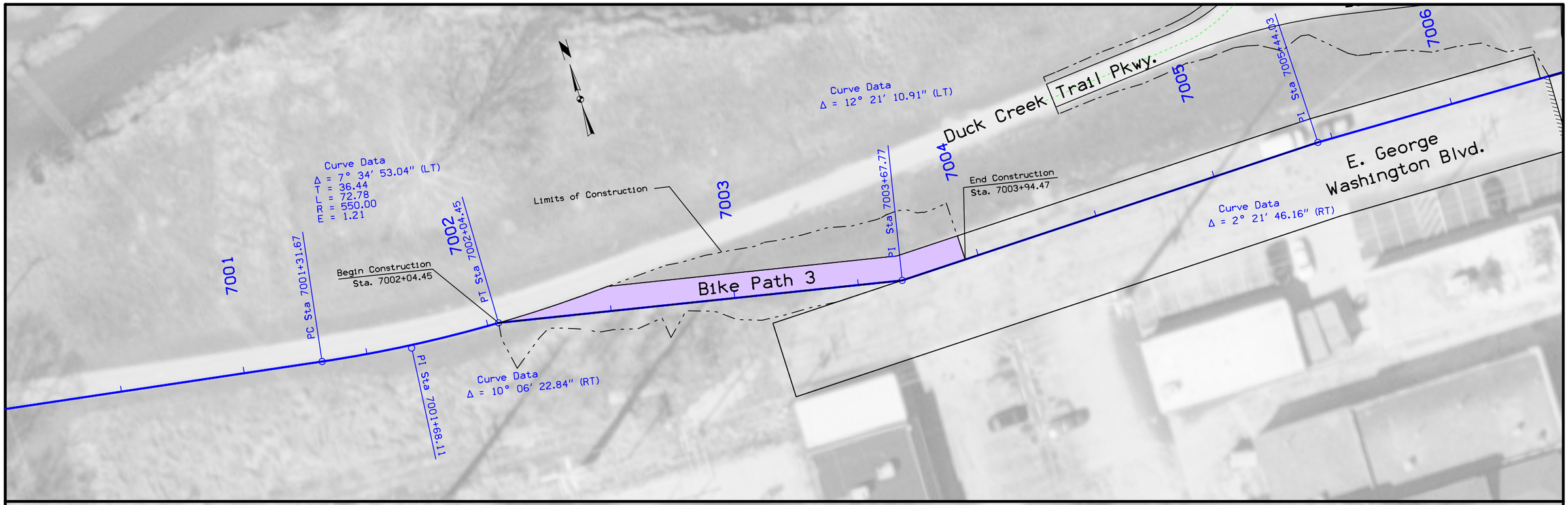
DRIVING\SIDEWALK SURFACE

UNDER CONSTRUCTION

ALL SECTIONS LOOKING NORTH

# STAGING DETAILS
# NOT TO SCALE

| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER J.3 |
|---|---|---|---|---|---|



PRE-STAGE

| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER J.4 |
|---|---|---|---|---|---|

2:23:47 PM 11/21/2019 jkoch pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\Projects\8246101016\Design\CADD\Sheet_Files\82461009_J04.dgn

STAGE 1

| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER J.5 |
|---|---|---|---|---|---|

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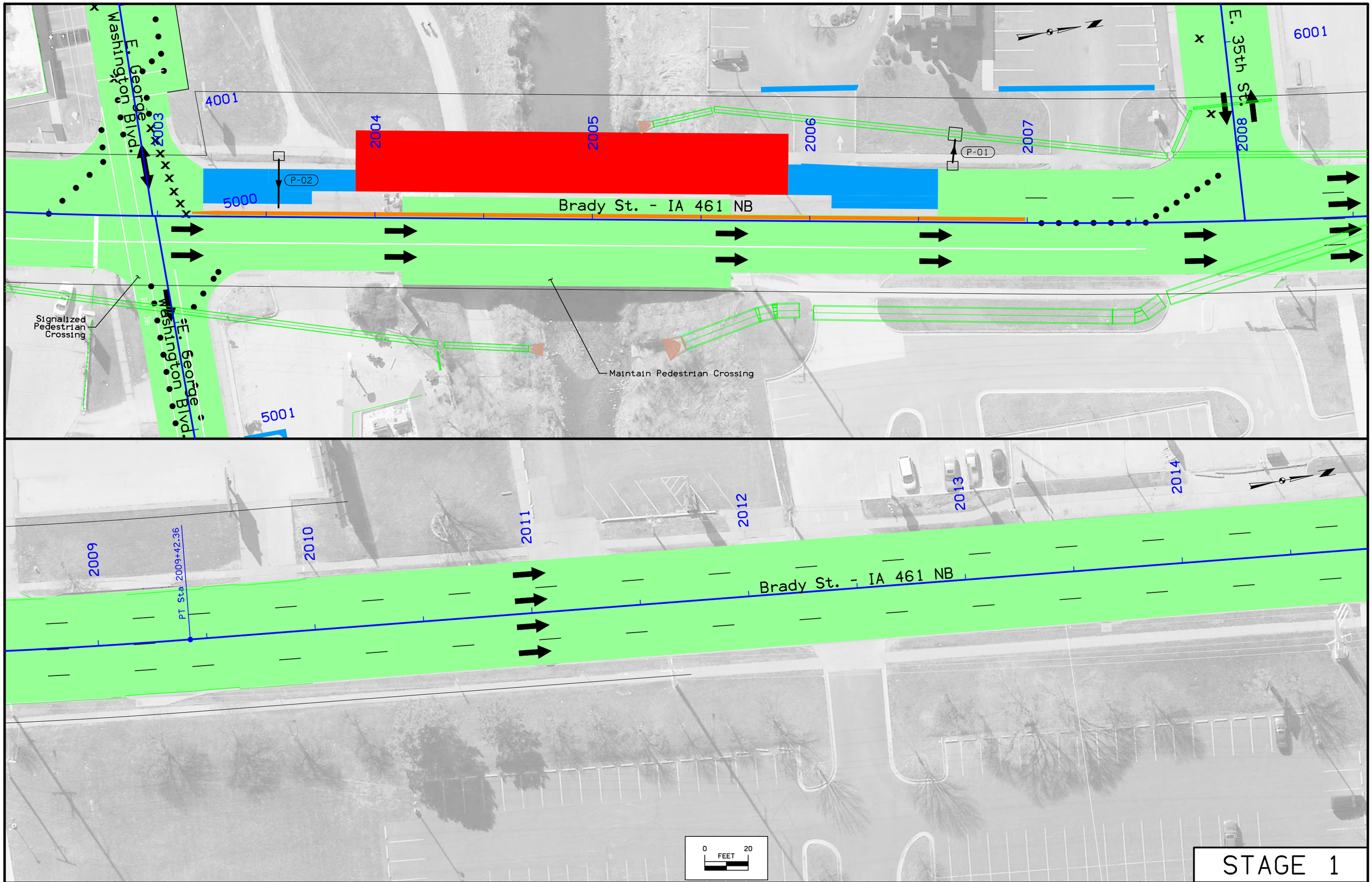


STAGE 1

| FILE NO. 31849 | ENGLISH | DESIGN TEAM Jia \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER J.6 |
|---|---|---|---|---|---|

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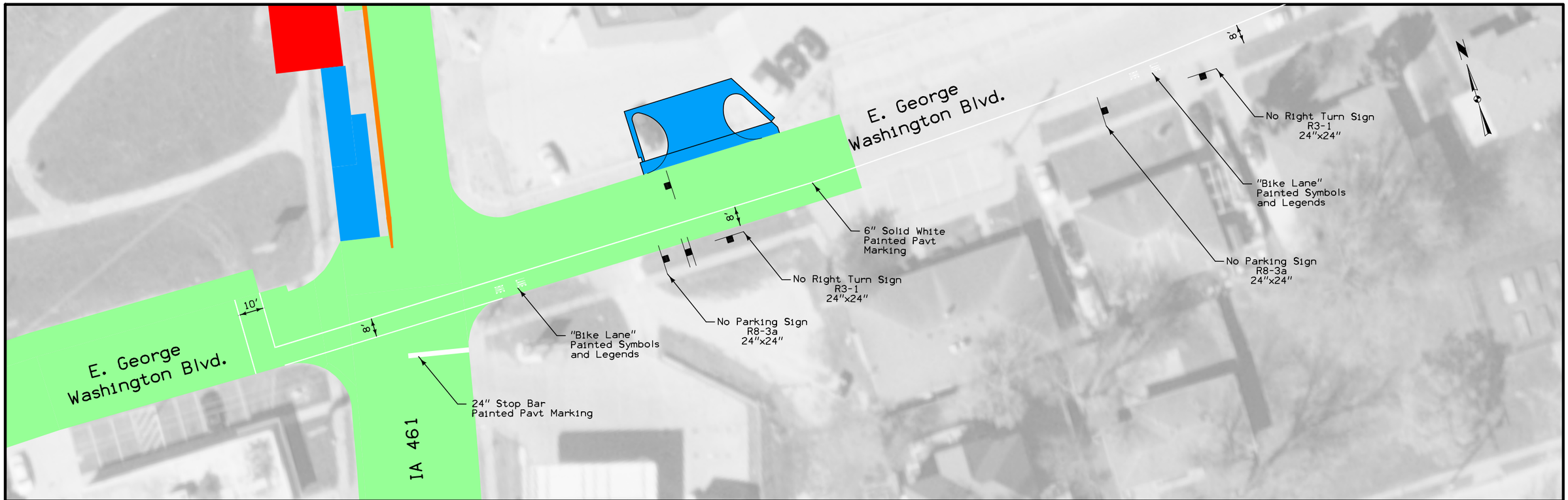


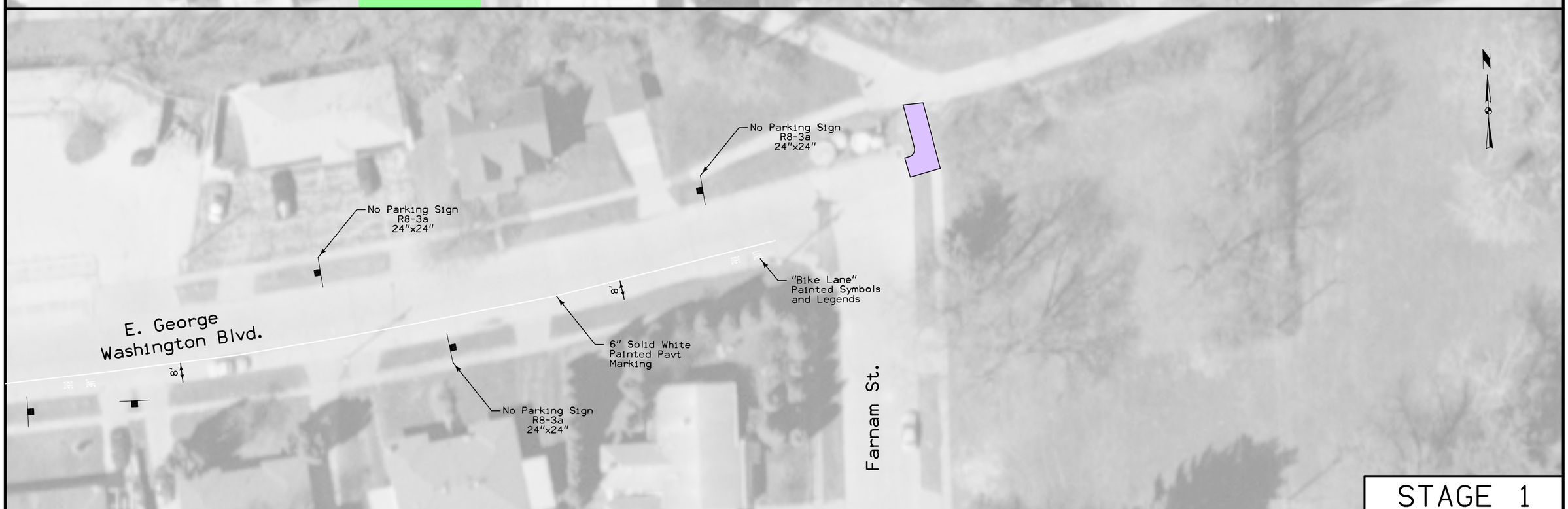


STAGE 1

| FILE NO. | ENGLISH | DESIGN TEAM J1a \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER J.7 |
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| FILE NO. 31849 | ENGLISH | DESIGN TEAM J1a \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER J.8 |
|---|---|---|---|---|---|

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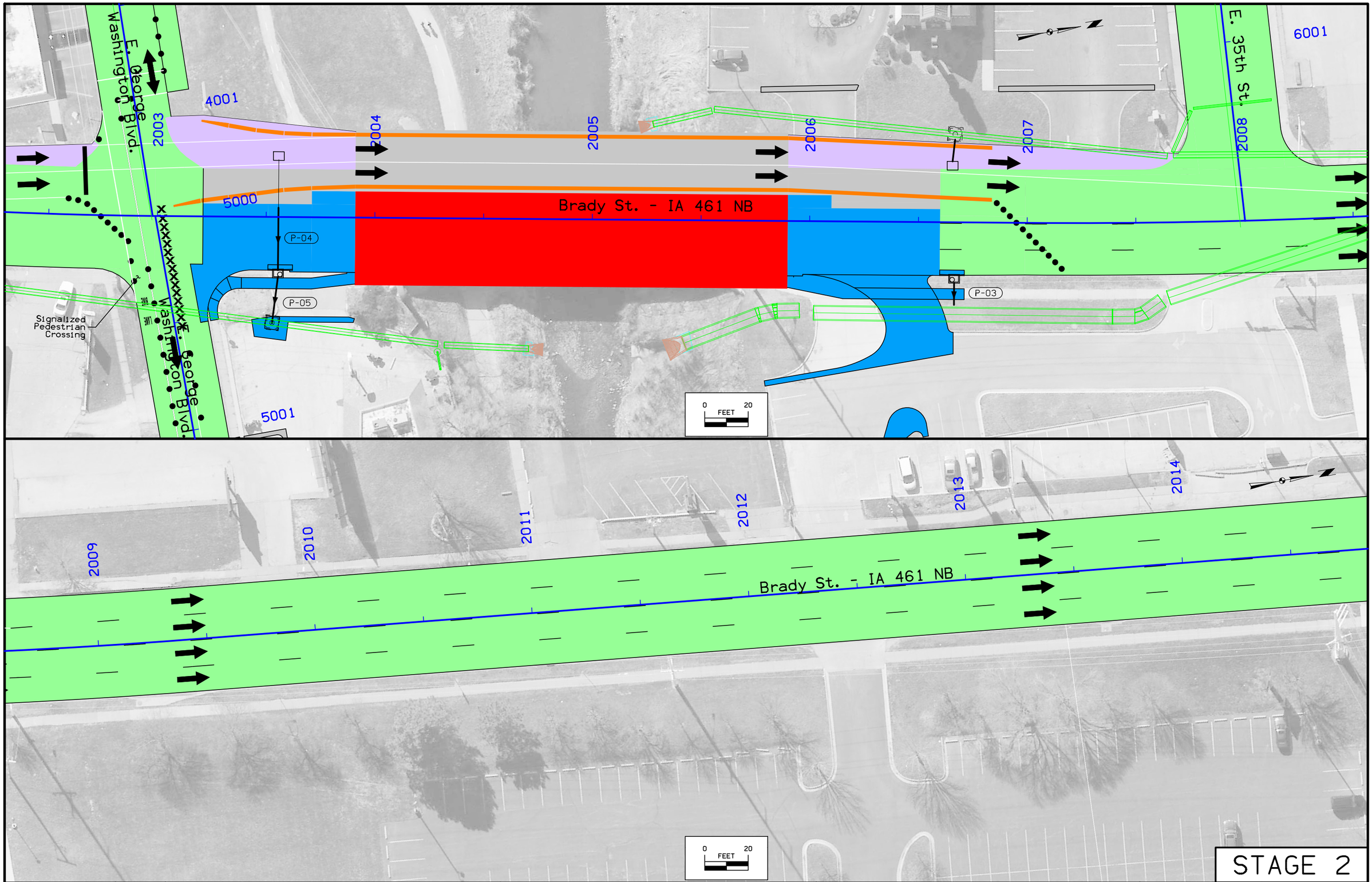


STAGE 2

| FILE NO. 31849 | ENGLISH | DESIGN TEAM J1a \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER J.9 |
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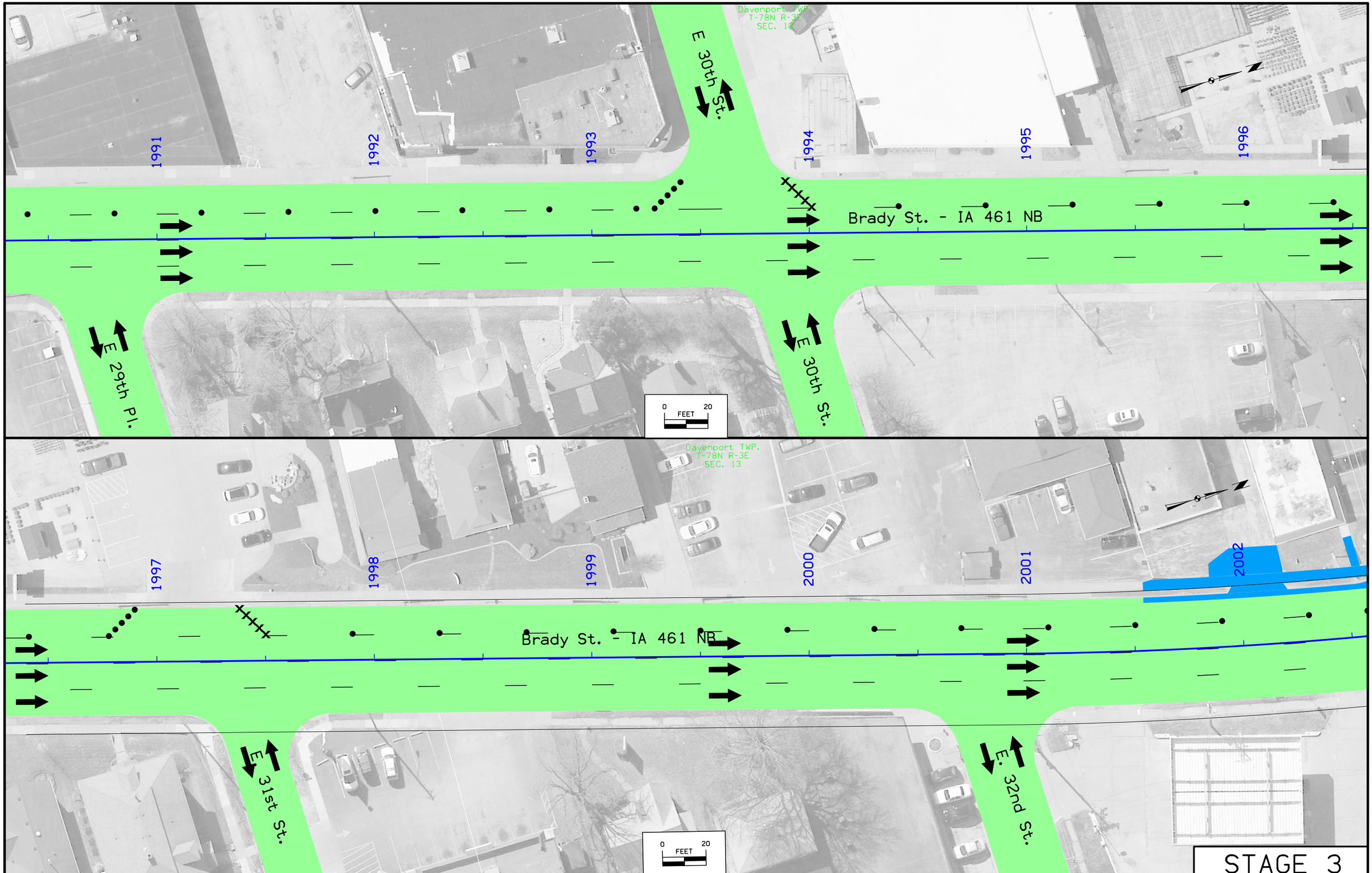


STAGE 3

| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER J.10 |
|---|---|---|---|---|---|

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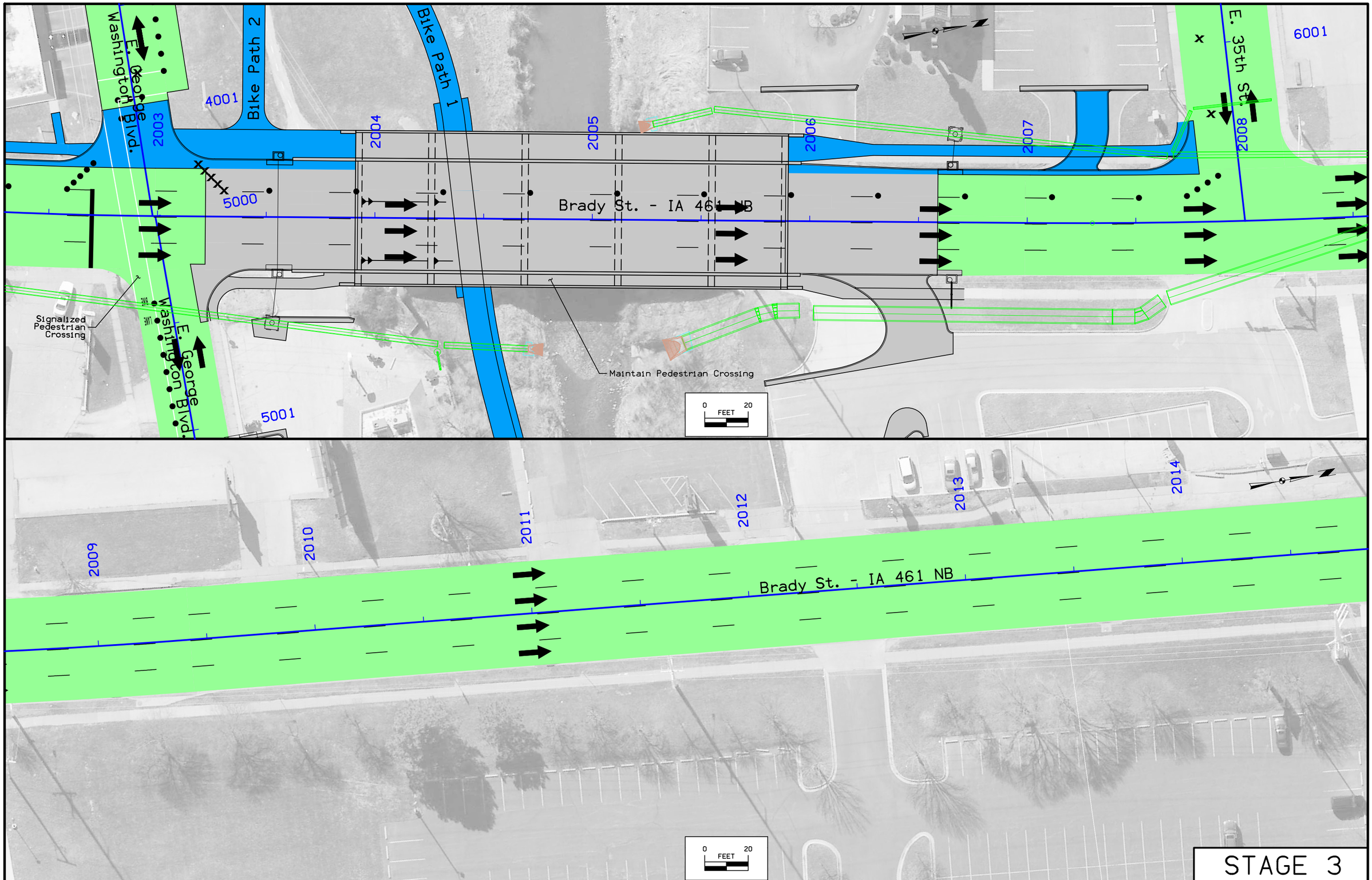


STAGE 3

| FILE NO. 31849 | ENGLISH | DESIGN TEAM J1a \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER J.11 |
|---|---|---|---|---|---|

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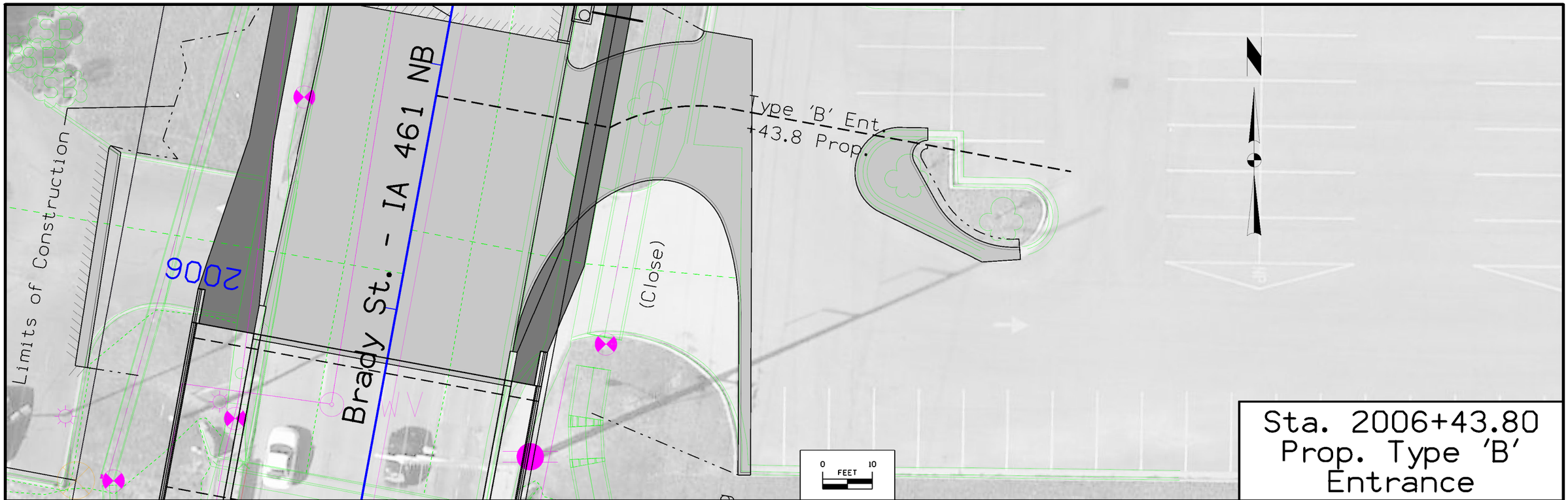


Sta. 2006+43.80
Prop. Type 'B'
Entrance

| FILE NO. | ENGLISH | DESIGN TEAM J1a \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER U.1 |
|---|---|---|---|---|---|

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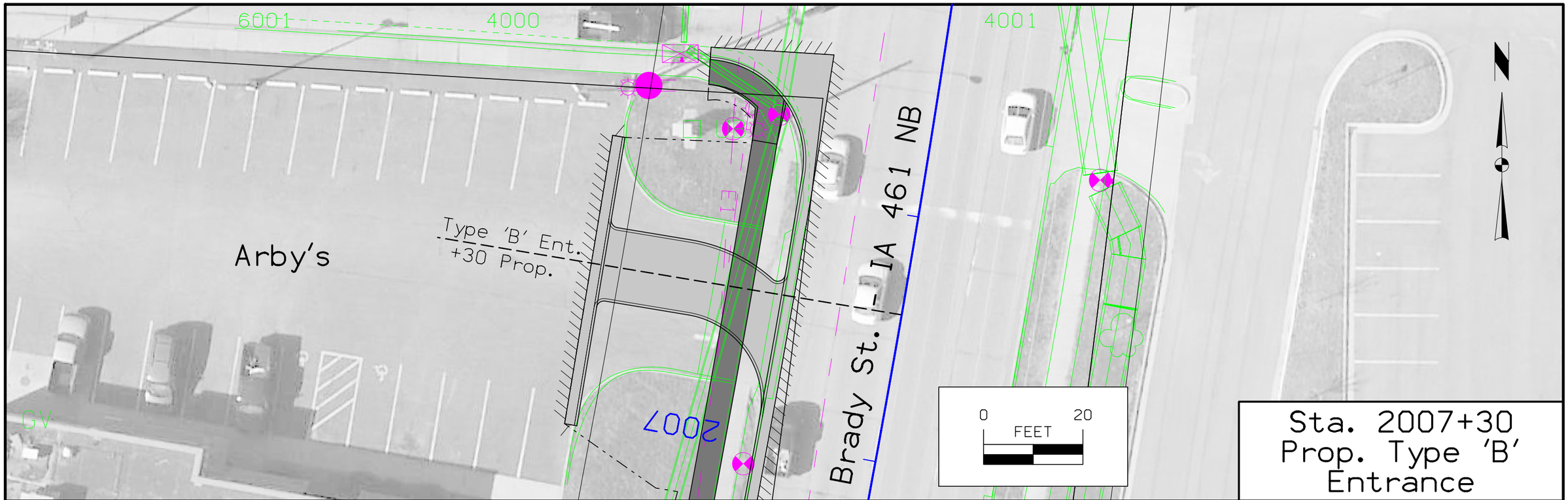


Sta. 2007+30
Prop. Type 'B'
Entrance

| FILE NO. 31849 | ENGLISH | DESIGN TEAM J1a \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER U.2 |
|---|---|---|---|---|---|

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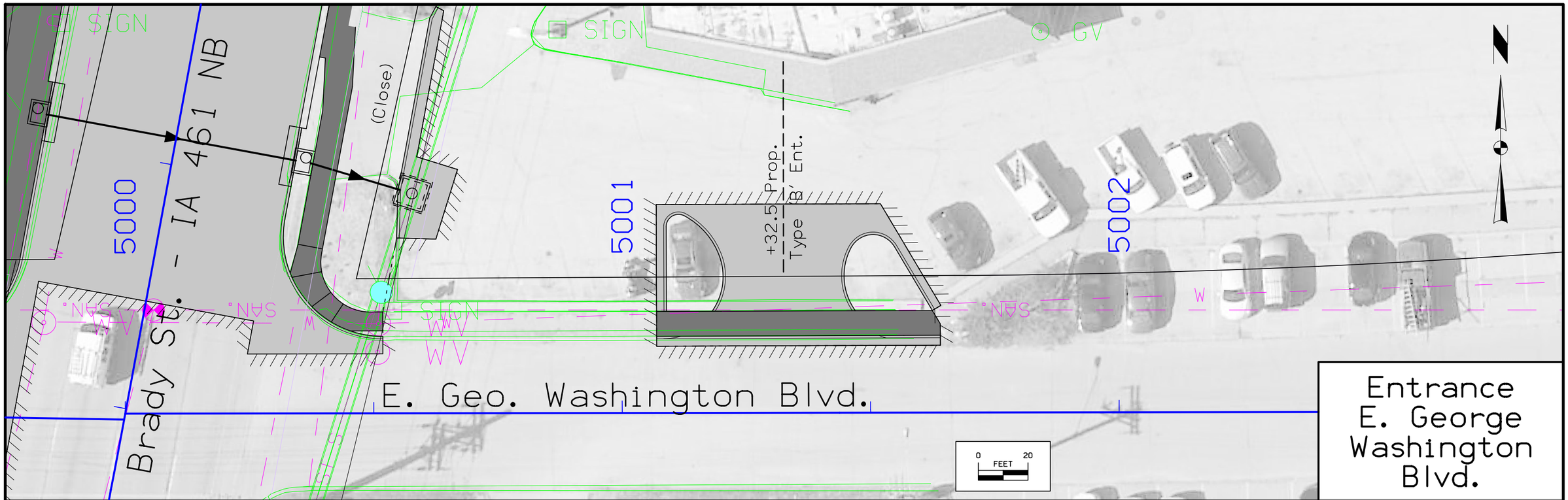
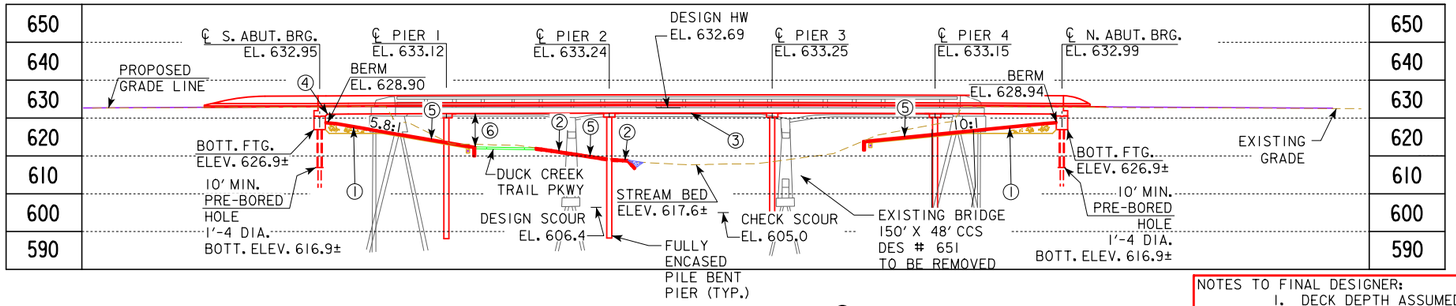



Entrance
E. George
Washington
Blvd.

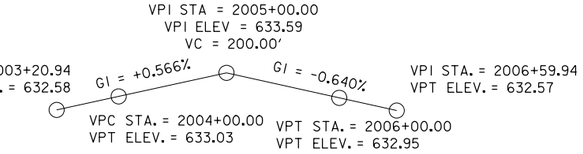
| FILE NO. 31849 | ENGLISH | DESIGN TEAM J1a \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER U.3 |
|---|---|---|---|---|---|

12:40:30 PM 5/7/2020 jkoch pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\Projects\8246101016\Design\CADD\Sheet_Files\82461009_U02.dgn

BENCH MARK FENO 78, 8074966.258N, 2149001I.035E, SET FENO TYPE MONUMENT 73' N. OF A NAIL SET ON CL OF GEORGE WASHINGTON BLVD. 6' E. OF A STEEL FENCE POST @ SPLIT IN BIKE PATH. 27' SE OF A STEEL POST SIGN POST (NO MOW PRAIRIE STREAM BUFFER). 132.5' W. OF A NAIL IN BIKE PATH A/C. 26' E. OF NAIL SET ON CL OF BIKE PATH IN CRACK WHERE A/C SLAB ENDS AND CONC SLAB BEGINS. EL. 625.688




## LONGITUDINAL SECTION ALONG ℄ APPROACH ROADWAY




## PROPOSED PROFILE GRADE US 461

① CONCRETE SLOPE PROTECTION
② ARTICULATED CONCRETE BLOCK MAT EROSION PROTECTION
③ REGULATORY LOW SUPERSTRUCTURE ELEV. 630.51
④ OPERATIONAL LOW SUPERSTRUCTURE ELEV. 630.20
⑤ GRADING SURFACE
⑥ MIN. VERT. CLEARANCE 8.0'

NOTES:
TL-4 BRIDGE RAILING PROPOSED.
TOP OF BRIDGE DECK CROWN 0.03' BELOW PROFILE GRADE

⑱ 7' TAPERED END SECTION
⑲ PEDESTRIAN RAIL\FENCE
⑳ EROSION STONE, 9 IN THICK, TYP.
㉑ EXISTING CREEK GAGE STATION. REMOVE STATION INCLUDING CONDUIT.
㉒ ADJUST STORM SEWER MANHOLE; REFER TO ROAD SHEETS FOR DETAILS.

NOTES TO FINAL DESIGNER:
1. DECK DEPTH ASSUMED 2' THICK FOR PRELIMINARY DESIGN. NOTIFY PRELIM ENGINEER IF FINAL DECK DEPTH EXCEEDS 2'.
2. AESTHETIC ENHANCEMENTS WILL BE INCORPORATED INTO FINAL DESIGN.
3. SIDEWALK ON BRIDGE TO BE RAISED AND SLOPE TO OUTSIDE.
4. CONNECT CONCRETE SLOPE PROTECTION SUBDRAIN TO EXISTING STORM SEWER; SEE NOTES 14 AND 17 BELOW.
5. WEST PEDESTRIAN\TRAFFIC SEPARATION BARRIER RAIL TO BE INSTALLED DURING STAGE 3 CONSTRUCTION.
6. STEEL SHEET PILING MAY BE NECESSARY FOR STAGED CONSTRUCTION; SEE SHEET V.4 FOR STAGING DETAILS.
7. THE BRIDGE WILL BE DESIGNED TO WITHSTAND THE APPLICABLE EFFECTS OF ICE AND THE HORIZONTAL STREAM LOADS AND UPLIFT FORCES ASSOCIATED WITH THE Q100.

## HYDRAULIC DATA

DRAINAGE AREA = 41.5 SQ. MI.
STREAM SLOPE = 7.4 FT./MI.
AVG. LOW WATER STAGE = 618.0

$Q_{50}$ = 9,710 CFS
STAGE = 631.71
REGULATORY LOW BEAM = 630.51
BACKWATER = 0.40 FT.
AVG. BRIDGE VELOCITY = 5.6 FPS

$Q_{100}$ = 12,200 CFS
STAGE = 632.69
OPERATIONAL LOW BEAM = 630.20
BACKWATER = 0.37 FT.
AVG. BRIDGE VELOCITY = 4.3 FPS

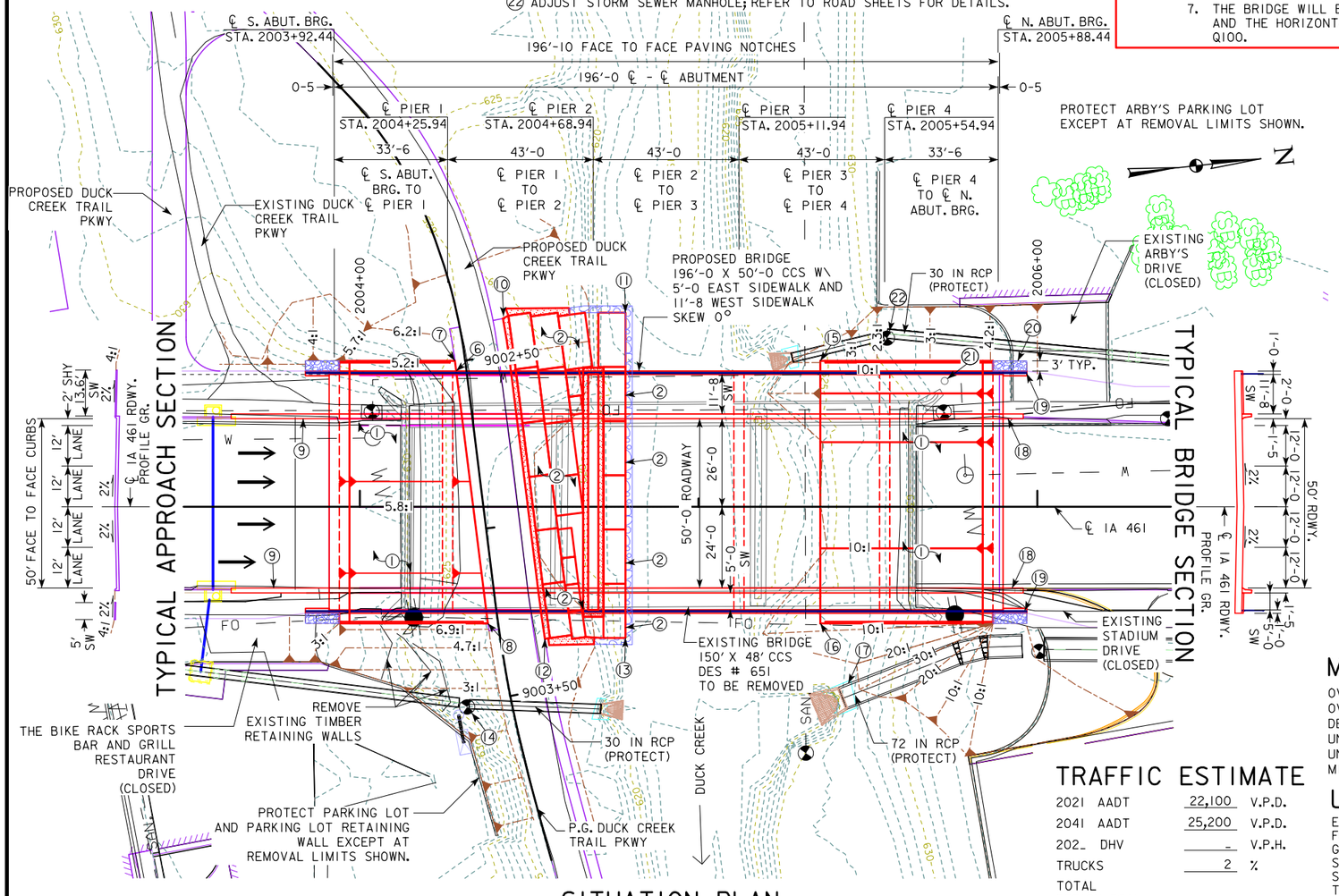
$Q_{200}$ = 15,200 CFS
STAGE = 634.08
CALCULATED DESIGN SCOUR = 606.4

$Q_{500}$ = 18,780 CFS
STAGE = 635.82
AVG. BRIDGE VELOCITY = 2.2 FPS
CALCULATED CHECK SCOUR = 605.0

Q OVERTOP= 7,600 CFS
AVG. BRIDGE VELOCITY = 5.2 FPS
CALCULATED SCOUR = 607.2
ROADWAY OVERTOP 630.0
STA. 1999+75

EXTREME HW STAGE = 633.0
DATE = JUNE 1990

50, 100 & 500 YR. STAGES AND DISCHARGES FROM SCOTT COUNTY F.I.S., DATED JUNE 9, 2014.
F.I.S. DATUM 0 FT. BELOW PROJECT DATUM.




## SITUATION PLAN

⑦ LIMIT OF CONC. SLOPE PROTECTION
STA. 2004+28.10, 43.09' LT.
BUTT CONC. SLOPE PROTECTION AGAINST DUCK CREEK TRAIL PKWY SHOULDER

⑧ LIMIT OF CONC. SLOPE PROTECTION
STA. 2004+37.81, 34.42' RT.
BUTT CONC. SLOPE PROTECTION AGAINST DUCK CREEK TRAIL PKWY SHOULDER

⑨ IDOT STANDARD ROAD PLAN BA-108 CONCRETE BARRIER TAPERED END SECTION

⑩ LIMIT OF ARTICULATED CONCRETE BLOCK MAT EROSION PROTECTION
STA. 2004+42.41, 56.23' LT.

⑪ LIMIT OF ARTICULATED CONCRETE BLOCK MAT EROSION PROTECTION
STA. 2004+78.44, 57.30' LT.

⑫ LIMIT OF ARTICULATED CONCRETE BLOCK MAT EROSION PROTECTION
STA. 2004+54.65, 38.98' RT.

⑬ LIMIT OF ARTICULATED CONCRETE BLOCK MAT EROSION PROTECTION
STA. 2004+78.44, 38.70' RT.

⑭ CONNECT SOUTH BERM CONCRETE SLOPE PROTECTION SUBDRAIN TO STORM MANHOLE
STA. 2004+31.70, 59.13' RT., INV. EL. 620.00.
CONNECTION SHOULD CONFORM TO IDOT DR-303.

⑮ LIMIT OF CONC. SLOPE PROTECTION
STA. 2005+35.98, 43.09' LT.

⑯ LIMIT OF CONC. SLOPE PROTECTION
STA. 2005+35.98, 34.42' RT.

⑰ CONNECT NORTH BERM CONCRETE SLOPE PROTECTION SUBDRAIN TO 72 IN RCP
STA. 2005+44.23, 52.11' RT., INV. EL. 621.73.
CONNECTION SHOULD CONFORM TO IDOT DR-303.

## MINIMUM VERTICAL CLEARANCE

OVERHEAD STATION = 2004+28.28, OFFSET 40.09'
OVERHEAD ELEVATION = 632.38
DEPTH OF SUPERSTRUCTURE = 2'
UNDERPASS STATION = 9002+52.78, OFFSET 3.0'
UNDERPASS ELEVATION = 622.38
MINIMUM VERTICAL CLEARANCE = 8.00'

## TRAFFIC ESTIMATE

| | | |
|---|---|---|
| 2021 AADT | 22,100 | V.P.D. |
| 2041 AADT | 25,200 | V.P.D. |
| 202_ DHV | - | V.P.H. |
| TRUCKS | 2 | % |
| TOTAL DESIGN ESALs | - | |

## UTILITIES LEGEND:

EI - ELECTRIC - MIDAMERICAN ENERGY CO.
FO - FIBER OPTIC - CENTURYLINK
G - GAS - MIDAMERICAN ENERGY CO.
SAN - SANITARY SEWER - CITY OF DAVENPORT
ST S - STORM SEWER - CITY OF DAVENPORT
TV - TELEVISION - MEDIACOM
W - WATER - IOWA AMERICAN WATER CO.

## LOCATION

IA 461 OVER DUCK CREEK
T-78N R-3E
SECTION 13
DAVENPORT TOWNSHIP
SCOTT COUNTY
CITY OF DAVENPORT
BRIDGE MAINT. NO. 8220.1R061
FHWA NO. 46941
LATITUDE 41.553887°
LONGITUDE -90.569157°

0 ENGLISH 40
SCALE IN FEET

PRELIMINARY

DESIGN FOR 0° SKEW

# 196'-0 X 50'-0 CONTINOUS CONCRETE SLAB BRIDGE W\ 5'-0 EAST SIDEWALK AND 11'-8 WEST SIDEWALK

33'-6 END SPANS 43'-0 INTERIOR SPANS

## SITUATION PLAN

STATION 2004+90.44 OCTOBER 2019

## SCOTT COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 1 OF 4 FILE NO. 31849 DESIGN NO. 222

DESIGN TEAM | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER V.1

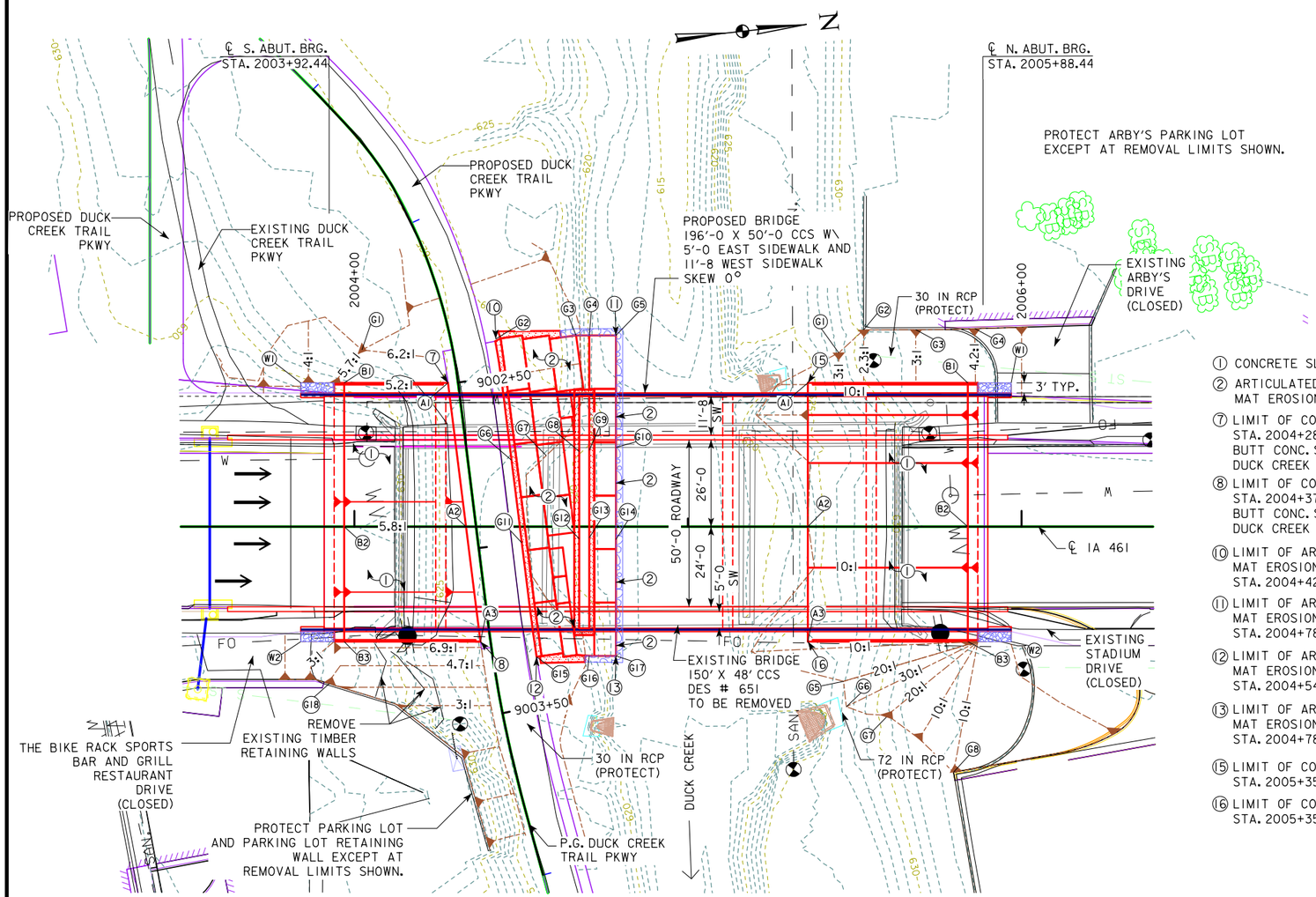
# BERM SLOPE LOCATION TABLE

| | SOUTH ABUTMENT | | | NORTH ABUTMENT | | |
|---|---|---|---|---|---|---|
| | STATION | OFFSET | ELEV | STATION | OFFSET | ELEV |
| A1 | 2004+28.10 | 43.09' LT | 622.43 | 2005+35.98 | 43.09' LT | 623.89 |
| A2 | 2004+33.50 | 0 | 622.35 | 2005+35.98 | 0 | 623.89 |
| A3 | 2004+37.81 | 34.42' RT | 622.49 | 2005+35.98 | 34.42' RT | 623.89 |
| B1 | 2003+96.94 | 43.09' LT | 628.66 | 2005+83.93 | 43.09' LT | 628.69 |
| B2 | 2003+96.94 | 0 | 628.66 | 2005+83.93 | 0 | 628.69 |
| B3 | 2003+96.94 | 34.42' RT | 628.66 | 2005+83.93 | 34.42' RT | 628.69 |
| G1 | 2004+02.30 | 52.95' LT | 626.60 | 2005+45.23 | 52.09' LT | 628.30 |
| G2 | 2004+42.41 | 56.23' LT | 622.48 | 2005+52.69 | 58.96' LT | 632.50 |
| G3 | 2004+66.48 | 57.31' LT | 622.30 | 2005+68.29 | 59.04' LT | 632.74 |
| G4 | 2004+70.44 | 57.30' LT | 619.60 | 2005+86.00 | 59.35' LT | 633.20 |
| G5 | 2004+78.44 | 57.30' LT | 617.30 | 2005+46.65 | 46.31' RT | 627.00 |
| G6 | 2004+47.12 | 19.99' LT | 622.03 | 2005+47.50 | 53.94' RT | 627.50 |
| G7 | 2004+57.54 | 21.30' LT | 621.80 | 2005+59.75 | 56.47' RT | 631.00 |
| G8 | 2004+67.44 | 22.54' LT | 620.10 | 2005+79.64 | 73.58' RT | 633.36 |
| G9 | 2004+70.44 | 22.92' LT | 619.80 | | | |
| G10 | 2004+78.44 | 23.75' LT | 618.50 | | | |
| G11 | 2004+50.21 | 4.79' RT | 622.14 | | | |
| G12 | 2004+67.44 | 3.64' RT | 619.80 | | | |
| G13 | 2004+70.44 | 3.31' RT | 619.40 | | | |
| G14 | 2004+78.44 | 3.81' RT | 618.50 | | | |
| G15 | 2004+54.65 | 38.98' RT | 622.28 | | | |
| G16 | 2004+70.44 | 38.70' RT | 622.20 | | | |
| G17 | 2004+78.44 | 38.70' RT | 618.10 | | | |
| G18 | 2003+92.32 | 46.99' RT | 633.00 | | | |
| W1 | 2003+83.94 | 43.09' LT | 632.65 | 2005+96.93 | 43.09' LT | 633.10 |
| W2 | 2003+83.94 | 34.42' RT | 633.10 | 2005+96.93 | 34.42' RT | 633.14 |

W - END WING / EROSION STONE
BERM SLOPE TABLE ELEVATIONS REFLECT GRADING SURFACE

SOUTH BERM
POINTS G2 THROUGH G17 ARE TO TOP OF ARTICULATED CONCRETE BLOCK MAT EROSION PROTECTION, CONCRETE ANCHOR OR CLASS E REVETMENT WEDGE. SEE SHEET V.3 FOR DETAILS.

NORTH BERM
POINTS G2, G3, G4 AND G8 ARE TO TOP OF EXISTING OR PROPOSED CURB




SITE PLAN

① CONCRETE SLOPE PROTECTION
② ARTICULATED CONCRETE BLOCK MAT EROSION PROTECTION
⑦ LIMIT OF CONC. SLOPE PROTECTION STA. 2004+28.10, 43.09' LT. BUTT CONC. SLOPE PROTECTION AGAINST DUCK CREEK TRAIL PKWY SHOULDER
⑧ LIMIT OF CONC. SLOPE PROTECTION STA. 2004+37.81, 34.42' RT. BUTT CONC. SLOPE PROTECTION AGAINST DUCK CREEK TRAIL PKWY SHOULDER
⑩ LIMIT OF ARTICULATED CONCRETE BLOCK MAT EROSION PROTECTION STA. 2004+42.41, 56.23' LT.
⑪ LIMIT OF ARTICULATED CONCRETE BLOCK MAT EROSION PROTECTION STA. 2004+78.44, 57.30' LT.
⑫ LIMIT OF ARTICULATED CONCRETE BLOCK MAT EROSION PROTECTION STA. 2004+54.65, 38.98' RT.
⑬ LIMIT OF ARTICULATED CONCRETE BLOCK MAT EROSION PROTECTION STA. 2004+78.44, 38.70' RT.
⑮ LIMIT OF CONC. SLOPE PROTECTION STA. 2005+35.98, 43.09' LT.
⑯ LIMIT OF CONC. SLOPE PROTECTION STA. 2005+35.98, 34.42' RT.

0 ENGLISH 40
SCALE IN FEET

PRELIMINARY

DESIGN FOR 0° SKEW

## 196'-0 X 50'-0 CONTINOUS CONCRETE SLAB BRIDGE W\ 5'-0 EAST SIDEWALK AND 11'-8 WEST SIDEWALK

33'-6 END SPANS 43'-0 INTERIOR SPANS

## SITUATION PLAN-SITE

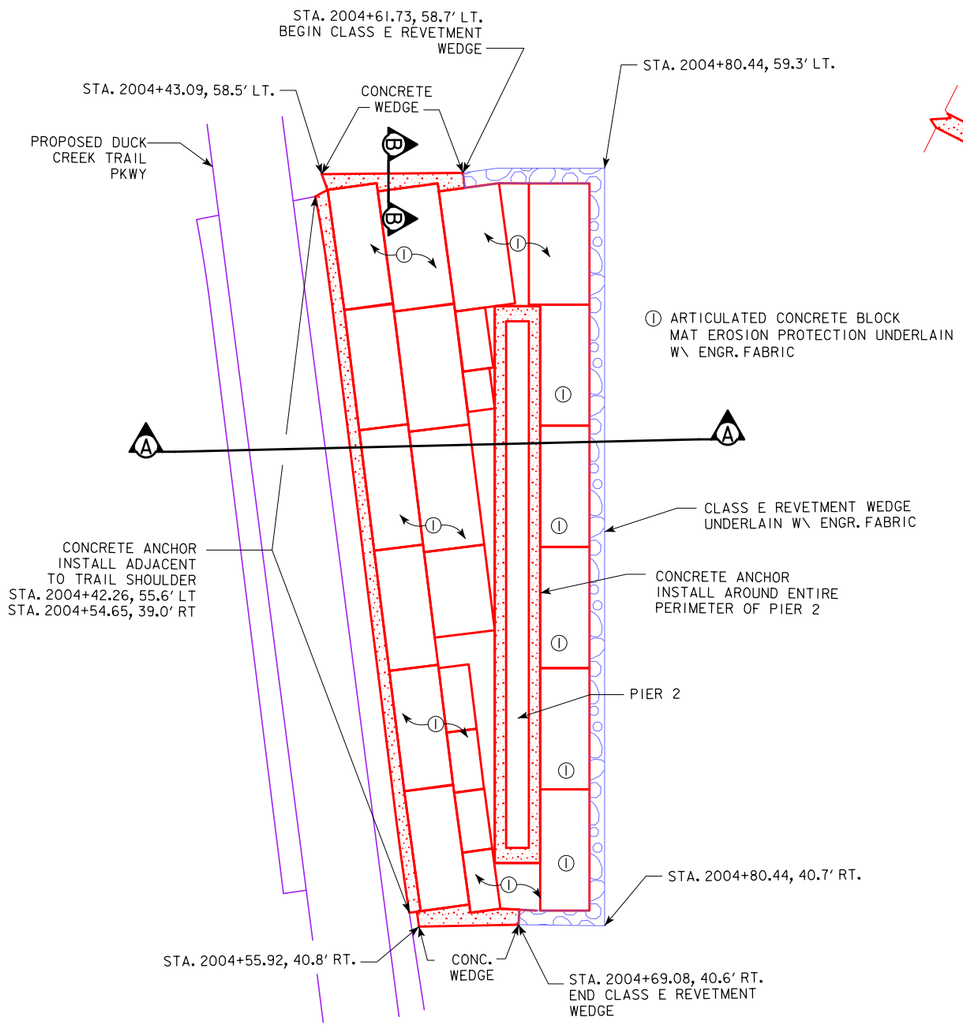
STATION 2004+90.44 OCTOBER 2019

## SCOTT COUNTY

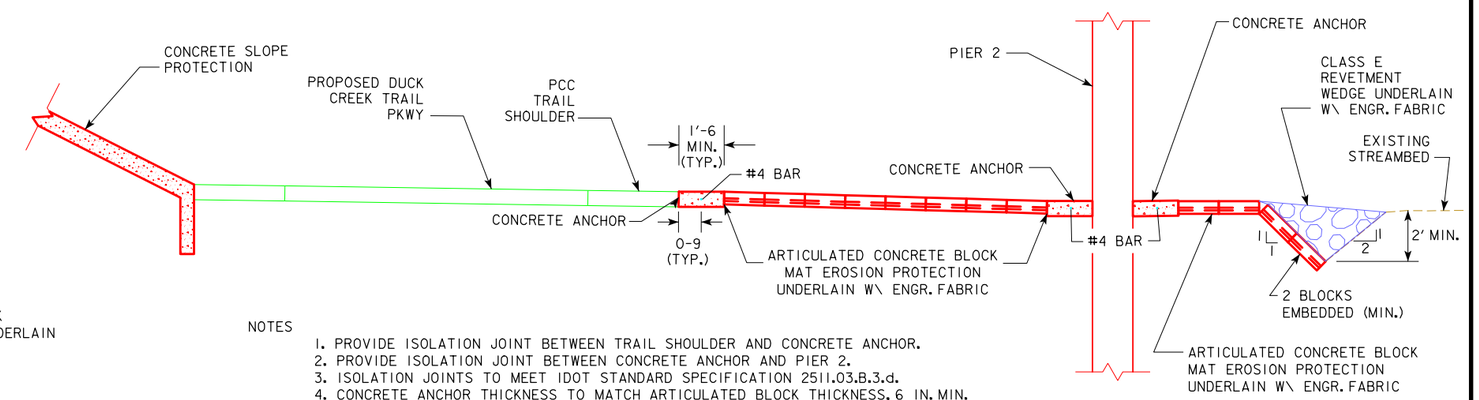
IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 2 OF 4 FILE NO. 31849 DESIGN NO. 222

DESIGN TEAM | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER V.2



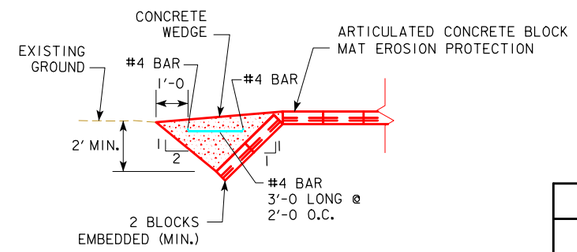

PLAN
NOT TO SCALE




NOTES

1. PROVIDE ISOLATION JOINT BETWEEN TRAIL SHOULDER AND CONCRETE ANCHOR.
2. PROVIDE ISOLATION JOINT BETWEEN CONCRETE ANCHOR AND PIER 2.
3. ISOLATION JOINTS TO MEET IDOT STANDARD SPECIFICATION 2511.03.B.3.d.
4. CONCRETE ANCHOR THICKNESS TO MATCH ARTICULATED BLOCK THICKNESS, 6 IN. MIN.
5. PROVIDE TRANSVERSE JOINT IN CONCRETE ANCHORS; MATCH SPACING USED FOR TRAIL.
6. TRANSVERSE JOINTS TO MEET IDOT STANDARD SPECIFICATION 2511.03.B.3.b.1.
7. EMBED CONCRETE BLOCK CABLES IN CONCRETE ANCHORS.

SECTION A-A
NOT TO SCALE




SECTION B-B
NOT TO SCALE

| ESTIMATED ARMORING QUANTITIES | | | |
|---|---|---|---|
| LOCATION | REVETMENT CL. E (TON) | ENGINEERING FABRIC (SY) | EXCAVATION (CY) |
| ARTICULATED CONCRETE BLOCK MAT WEDGE | 50 | 110 | 30 |

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE.

NOTES:

1. REFER TO SPECIAL PROVISION SPECIFICATION FOR EROSION CONTROL SYSTEM FOR DETAILS REGARDING CONCRETE BLOCK MATS, APPURTENANCES AND PAYMENT.
2. INSTALL CLOSED CELL CONCRETE BLOCKS.
3. INCLUDE COST FOR ALL LABOR, MATERIALS AND EQUIPMENT NECESARY TO INSTALL CABLED CONCRETE MATS, ENGINEERING FABRIC, CLAMPS, ANCHORS, JOINT MATERIAL, JOINT INSTALLATION, REINFORCING BARS, EXCAVATION AND MISCELLANEOUS CONCRETE IN EROSION CONTROL SYSTEM BID ITEM.
4. THE SEEDING REQUIREMENTS OF THE SPECIAL PROVISION FOR EROSION CONTROL SYSTEM SHALL NOT APPLY TO THIS PROJECT.
5. REFER TO SHEET V.2 FOR CONCRETE BLOCK STATION\OFFSETS AND TOP OF BLOCK\CONCRETE ANCHOR\REVETMENT ELEVATIONS.
6. ESTIMATE 340 SY OF ARTICULATED CONCRETE BLOCK MAT EROSION PROTECTION REQUIRED FOR PROJECT.

ARTICULATED CONCRETE BLOCK MAT
EROSION PROTECTION PLAN AND DETAILS

PRELIMINARY

DESIGN FOR 0° SKEW

196'-0 X 50'-0 CONTINOUS CONCRETE
SLAB BRIDGE W\ 5'-0 EAST
SIDEWALK AND 11'-8 WEST SIDEWALK

33'-6 END SPANS 43'-0 INTERIOR SPANS

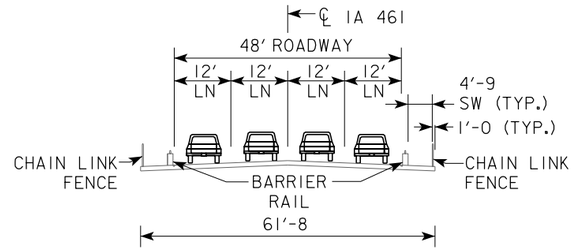
CONCRETE BLOCK MAT DETAILS

STATION 2004+90.44 OCTOBER 2019

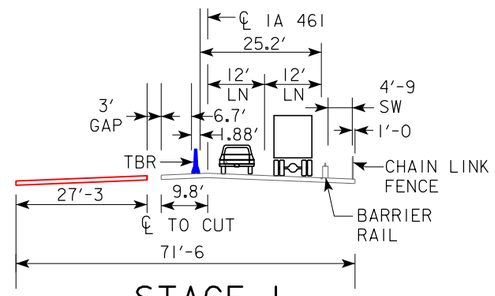
SCOTT COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

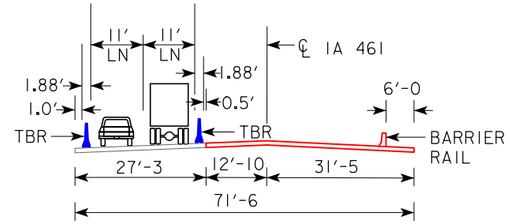
DESIGN SHEET NO. 3 OF 4 FILE NO. 31849 DESIGN NO. 222



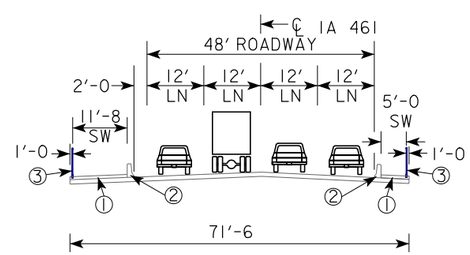

EXISTING TYPICAL SECTION




STAGE 1




STAGE 2




① RAISED SIDEWALK
② BARRIER RAIL
③ FENCE

FINISHED SECTION

DRIVING\SIDEWALK SURFACE

UNDER CONSTRUCTION

ALL SECTIONS LOOKING NORTH

STAGING DETAILS
NOT TO SCALE

PRELIMINARY

DESIGN FOR 0° SKEW

196'-0 X 50'-0 CONTINOUS CONCRETE SLAB BRIDGE W\ 5'-0 EAST SIDEWALK AND 11'-8 WEST SIDEWALK

33'-6 END SPANS 43'-0 INTERIOR SPANS

STAGING DETAILS

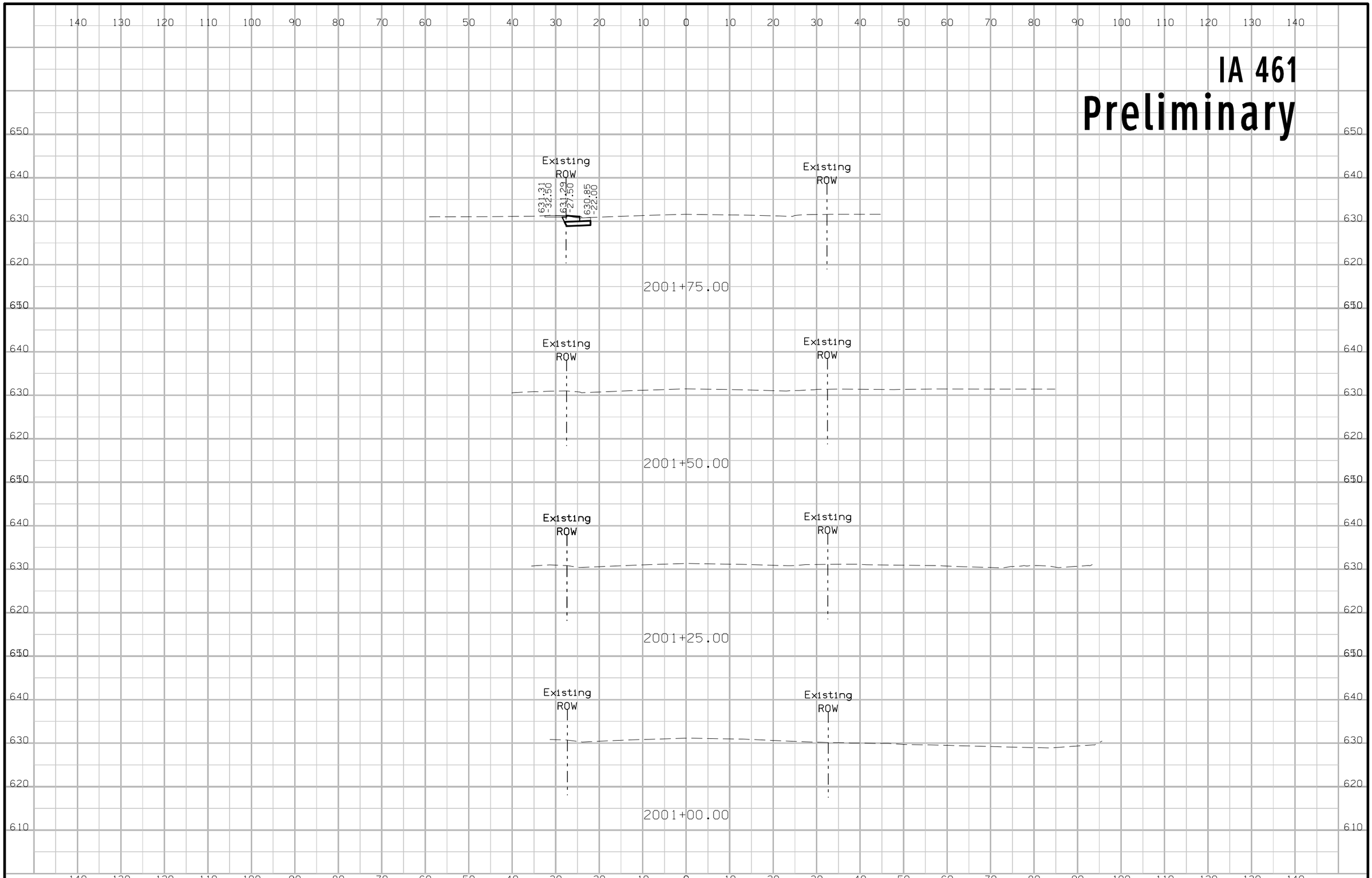
STATION 2004+90.44 OCTOBER 2019

SCOTT COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 4 OF 4 FILE NO. 31849 DESIGN NO. 222

# IA 461
# Preliminary




| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER W.1 |
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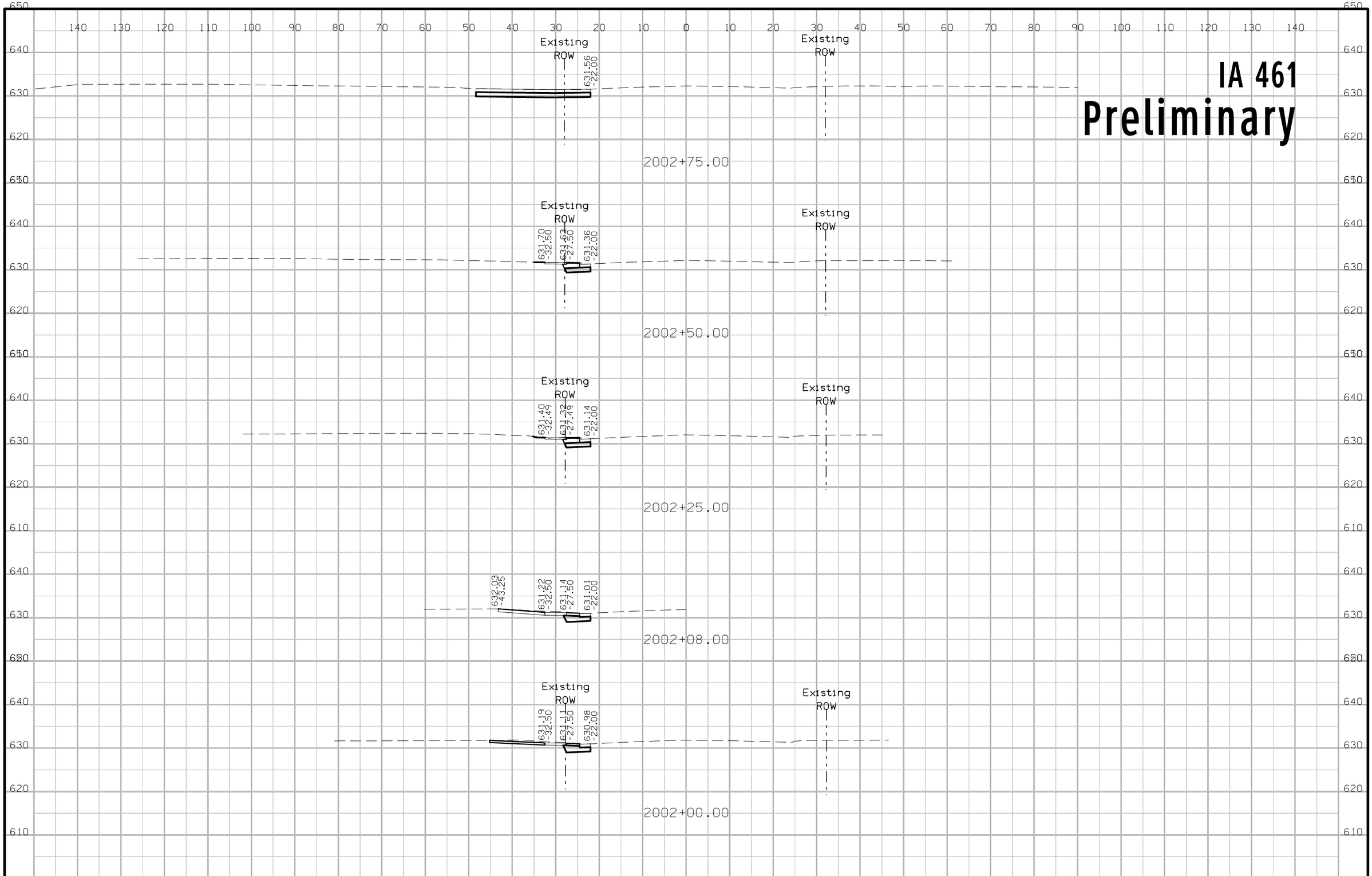


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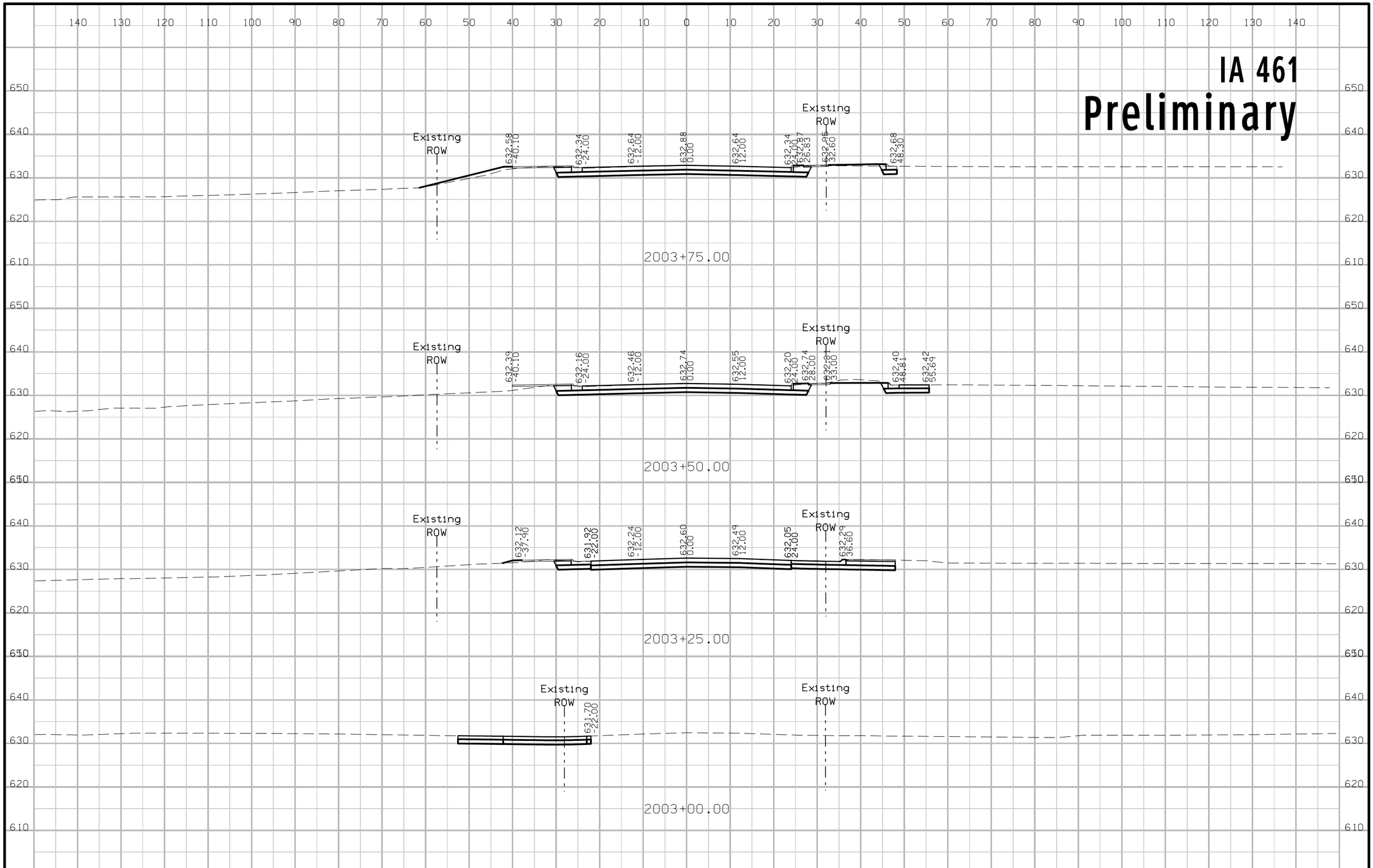
# IA 461
# Preliminary

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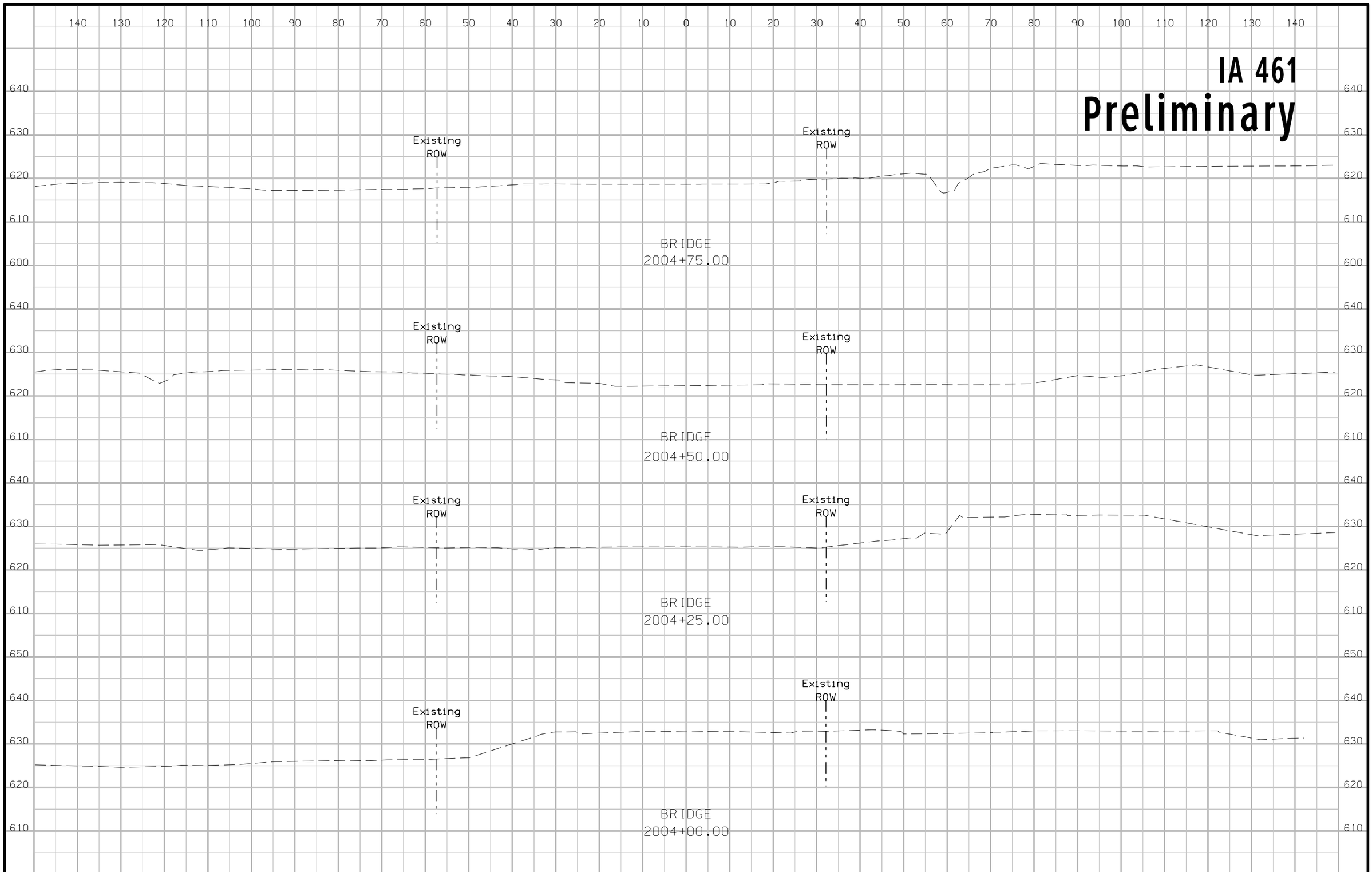


| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER W.4 |
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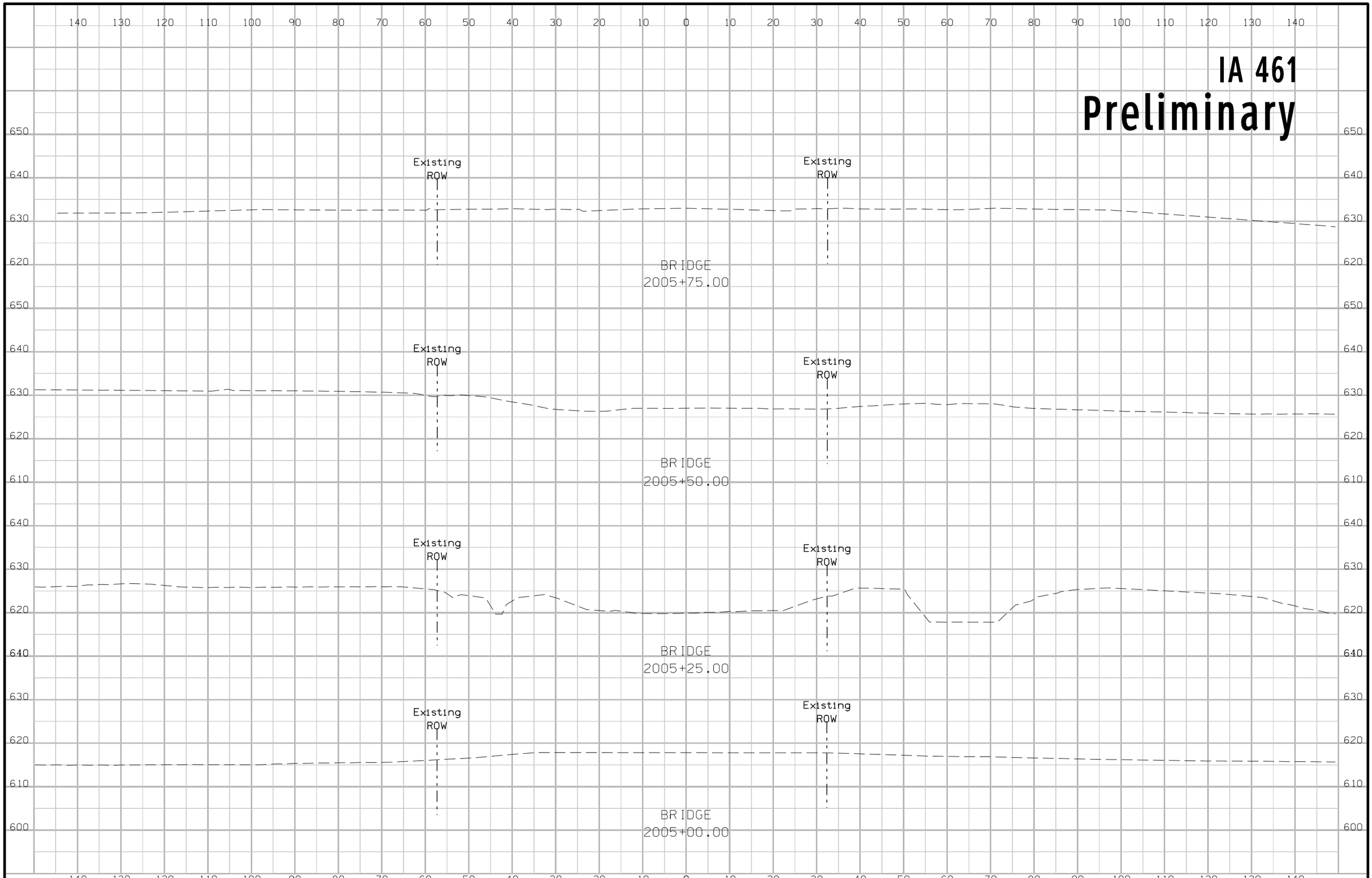


| FILE NO. | ENGLISH | DESIGN TEAM J1a \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER W.5 |
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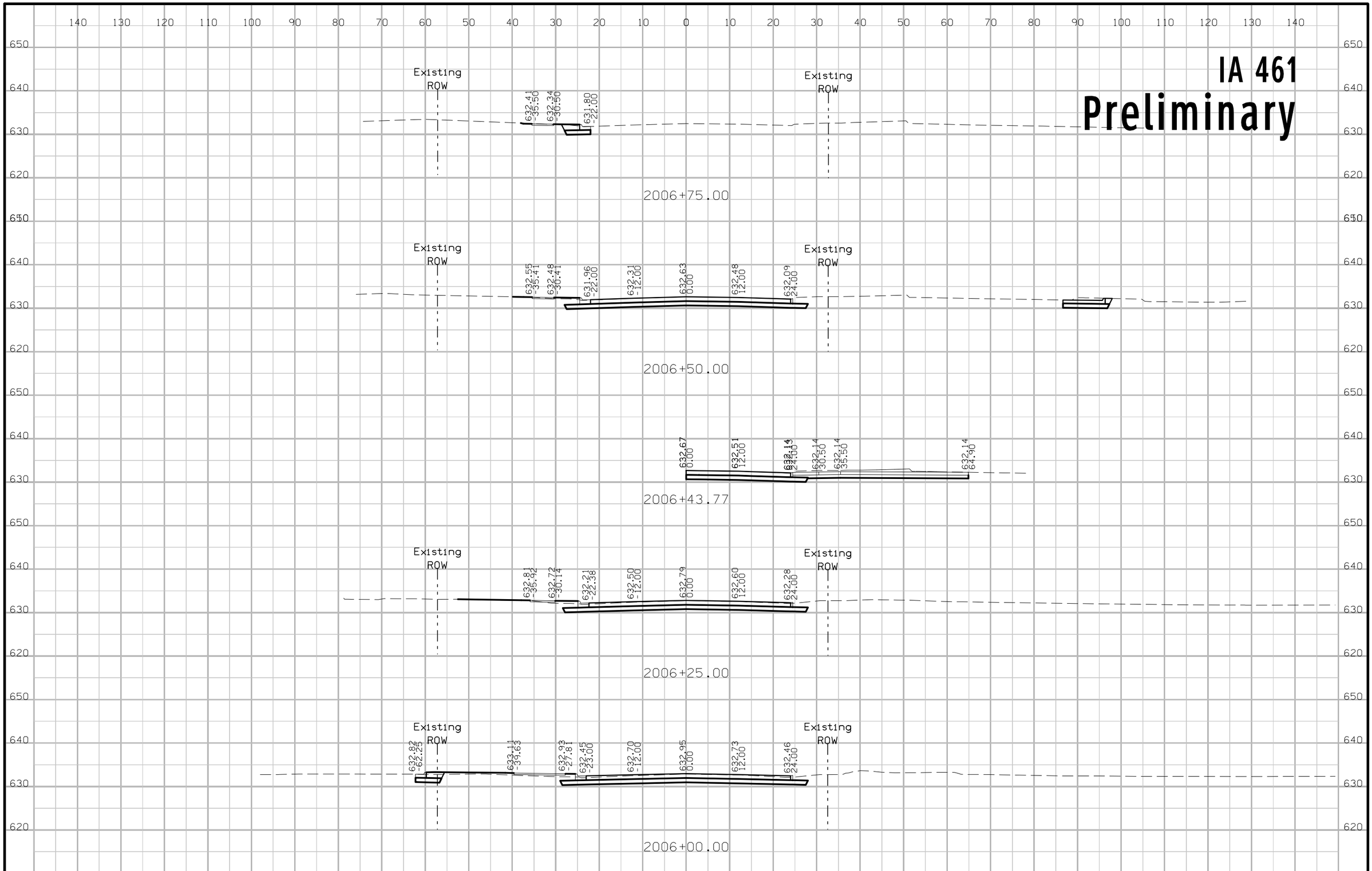
# Preliminary

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# IA 461
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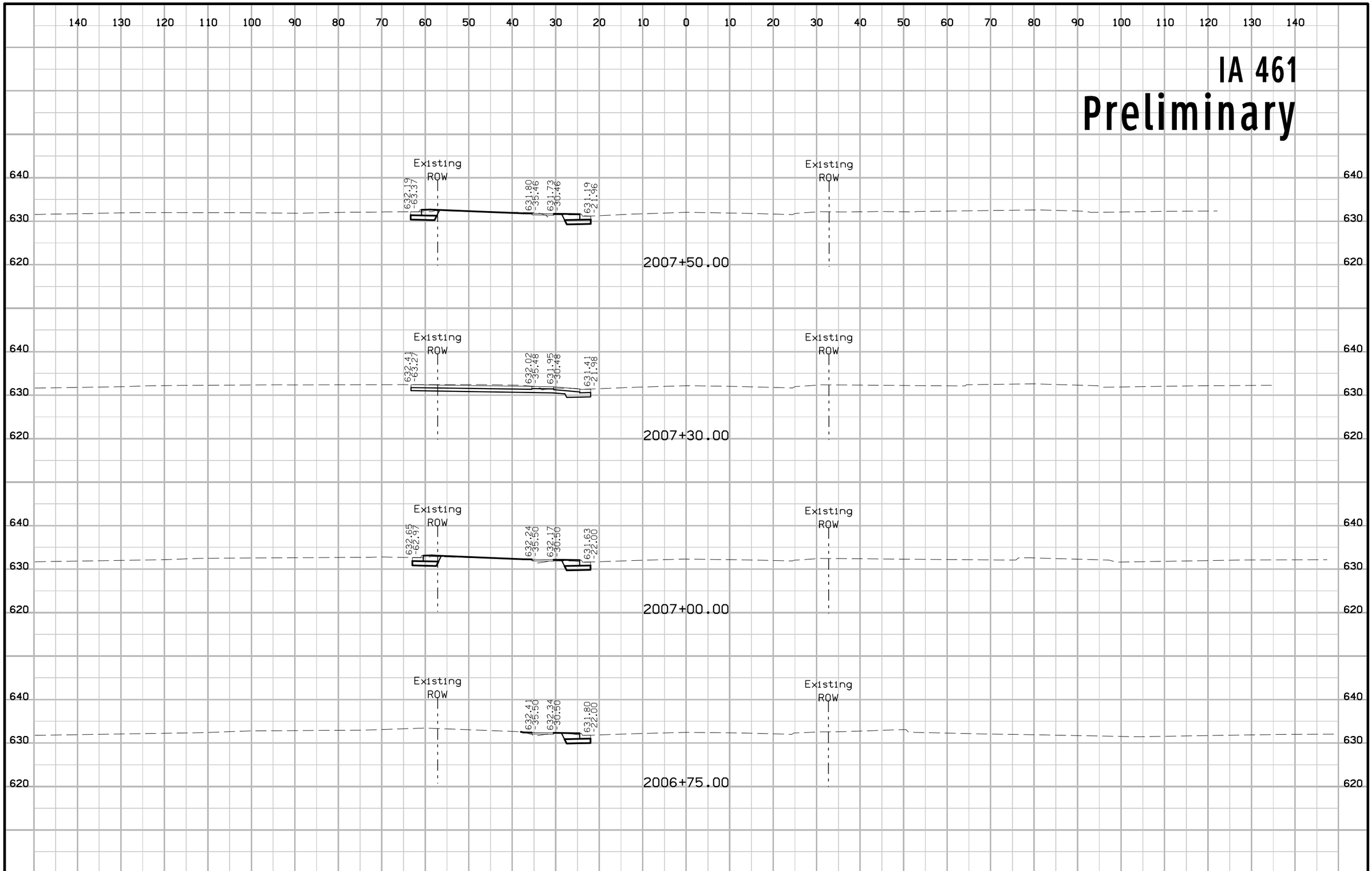


| FILE NO. 31849 | ENGLISH | DESIGN TEAM Jia \ Fullarton \ Koch | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER W.7 |
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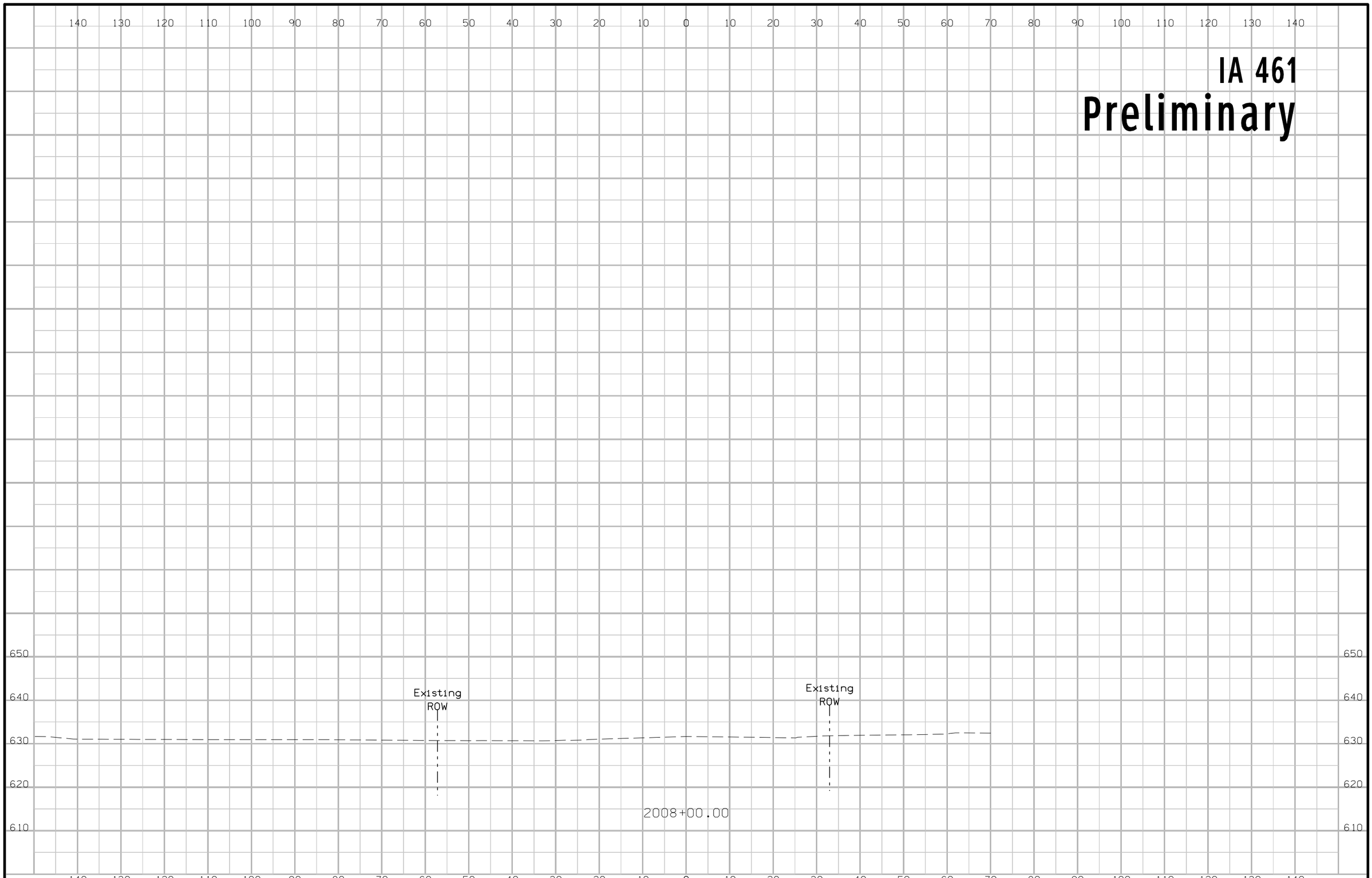


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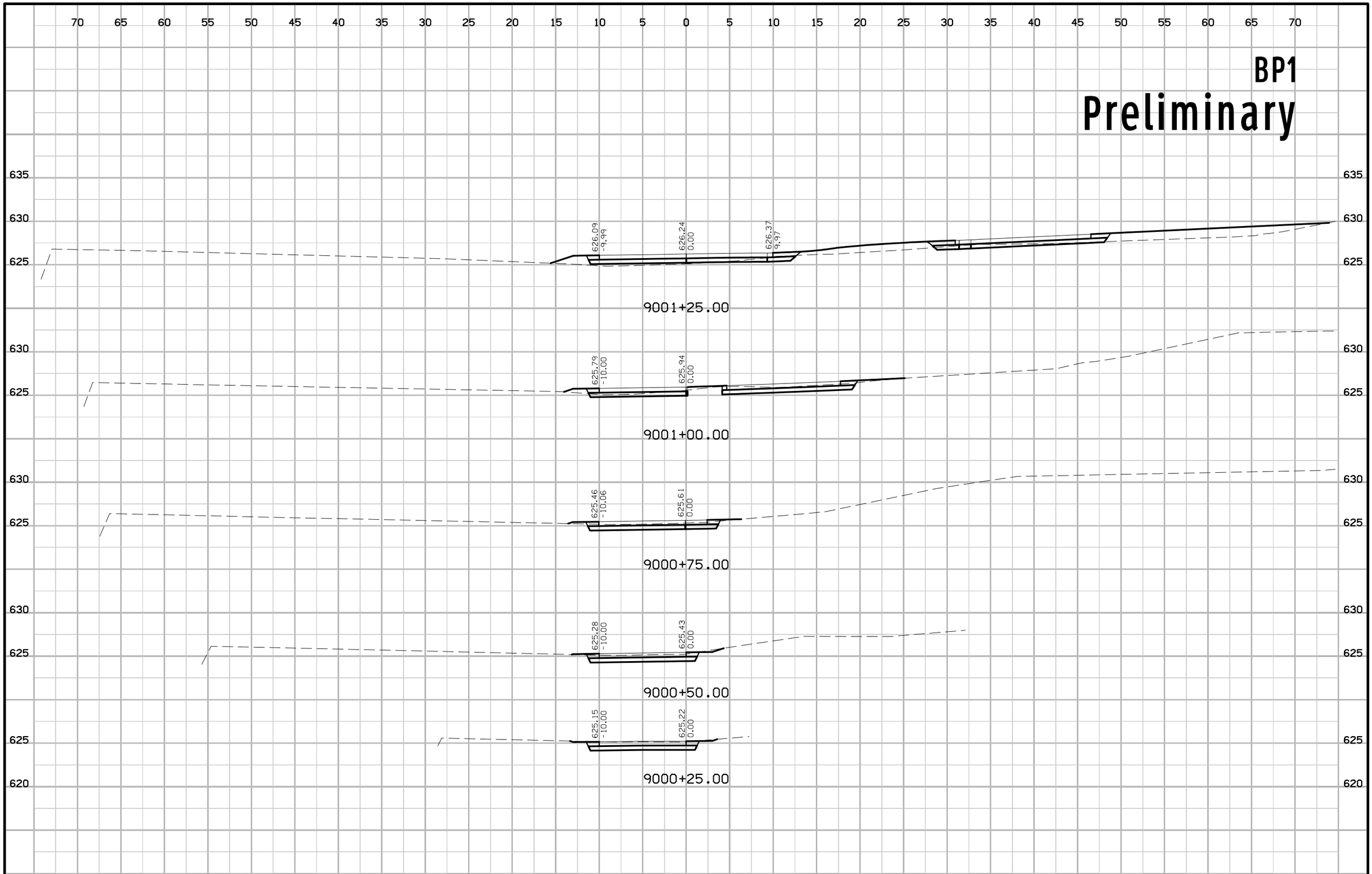


| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER X.1 |
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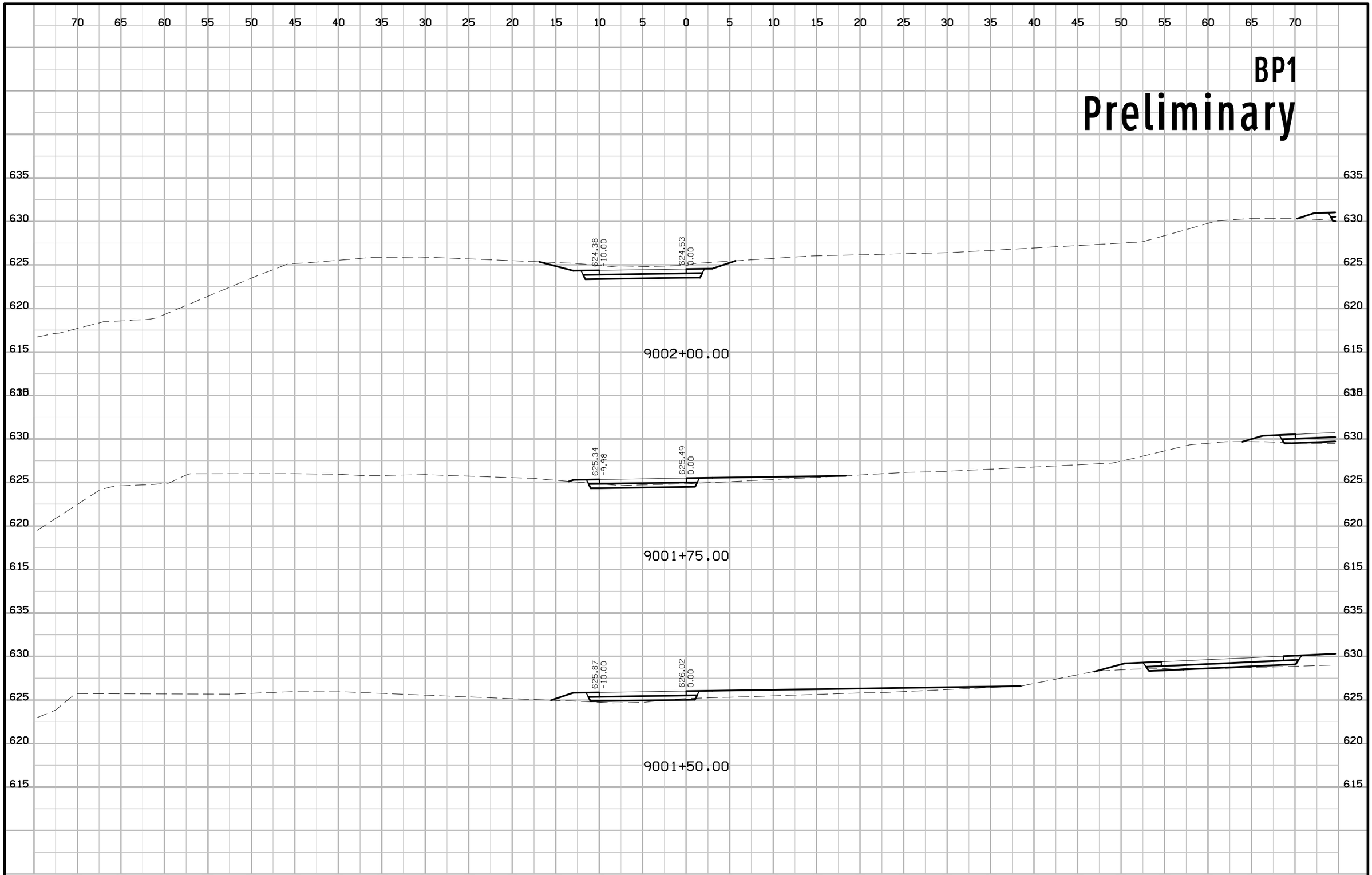


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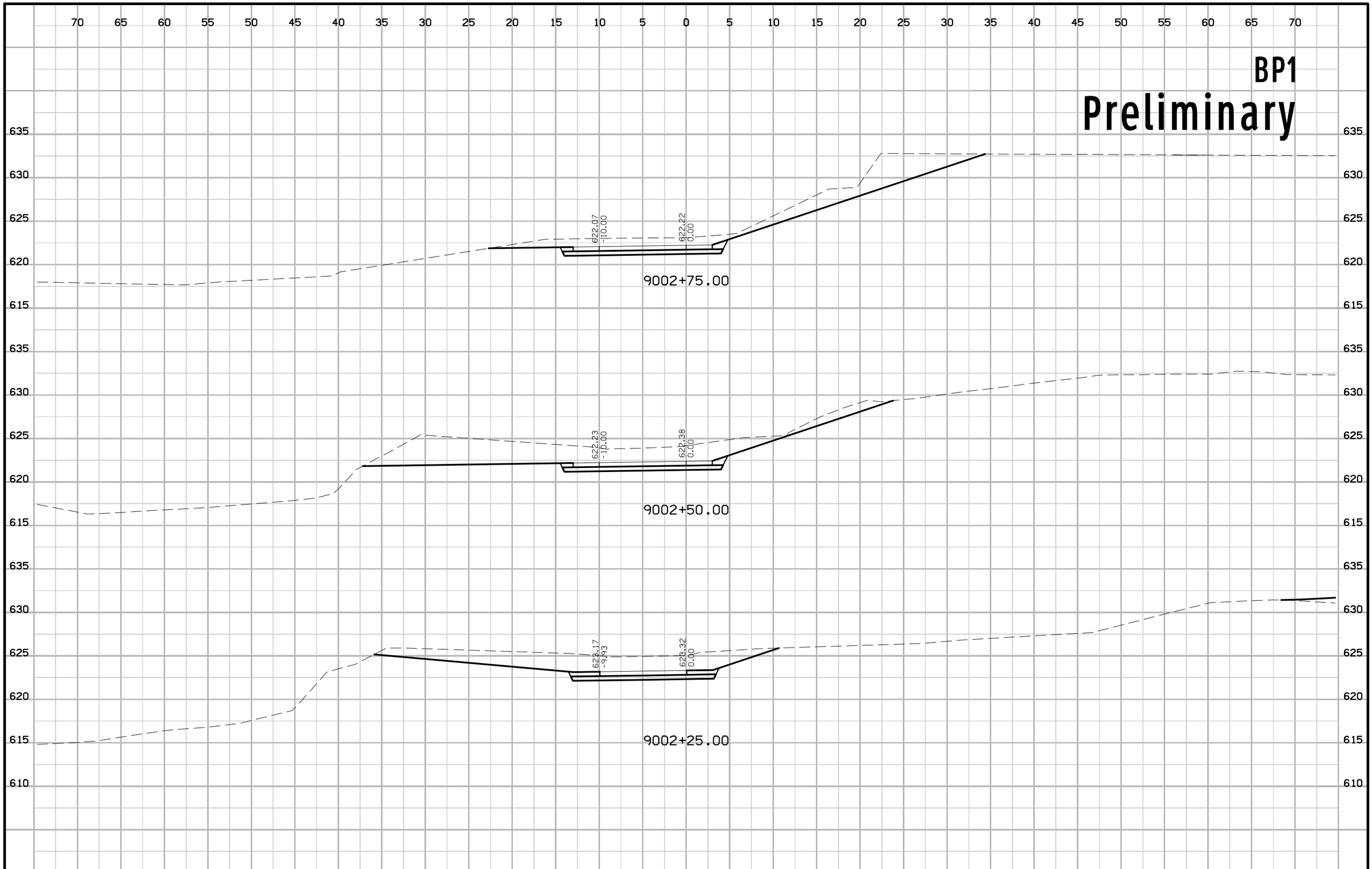


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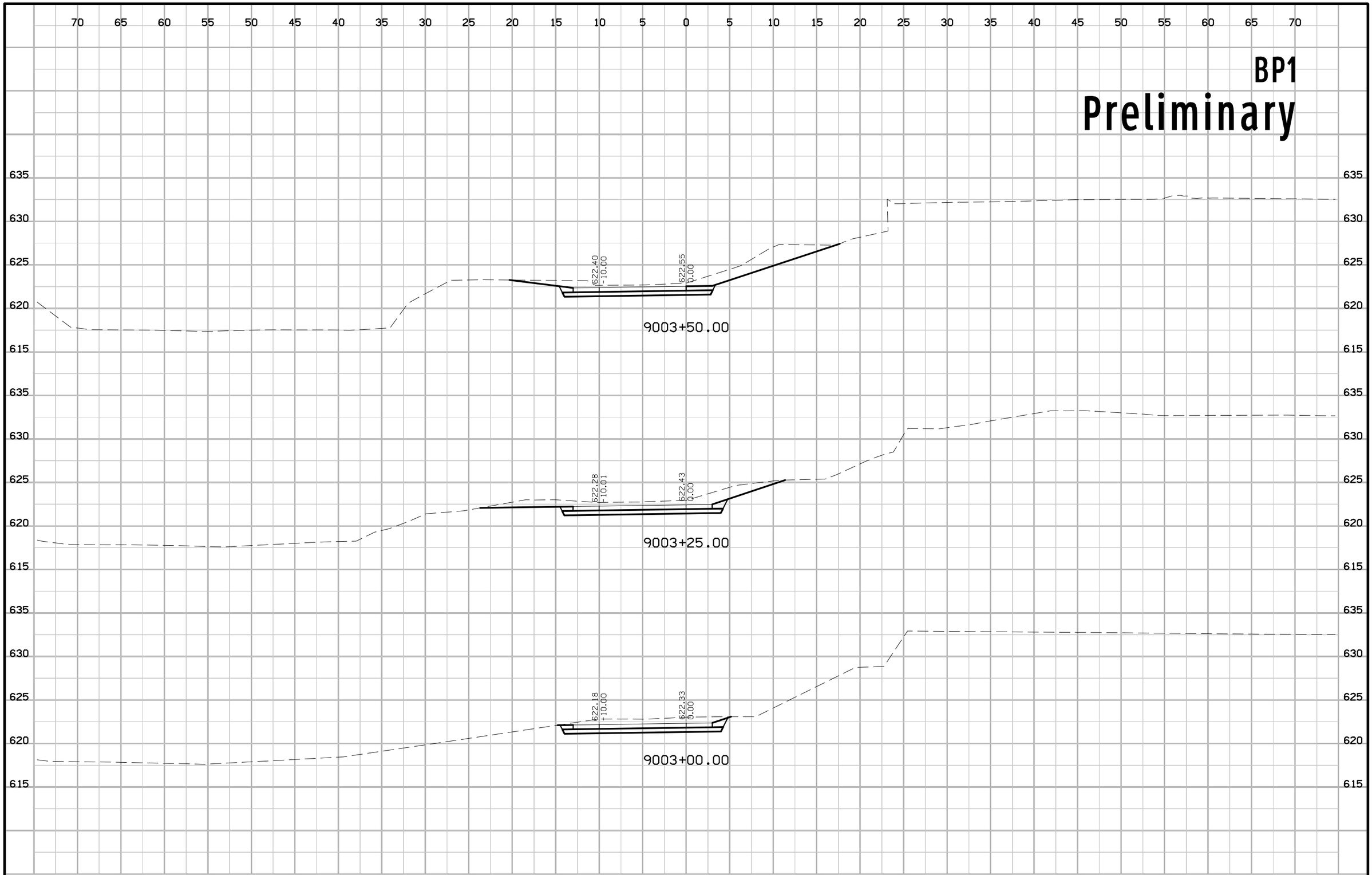


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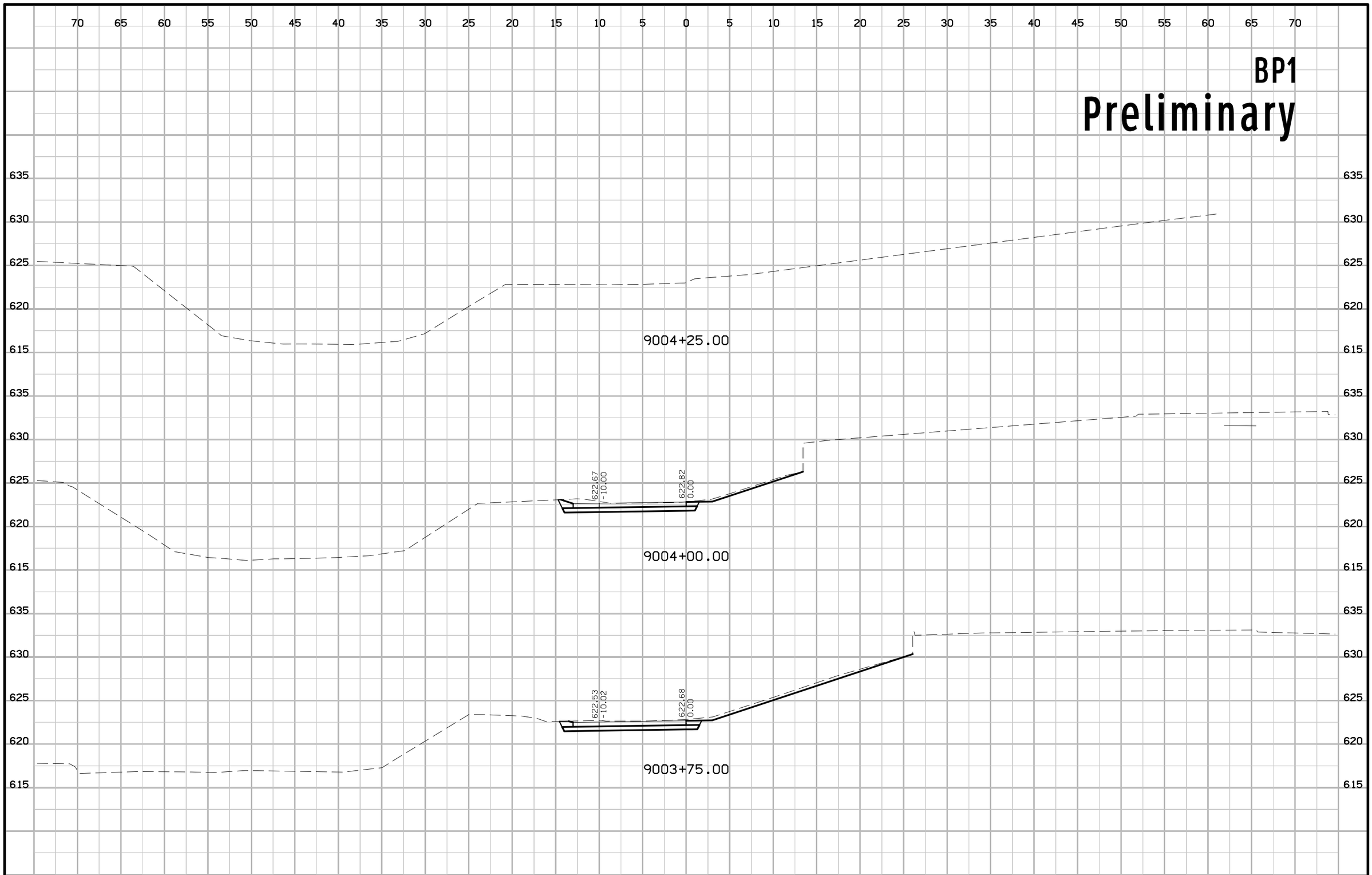


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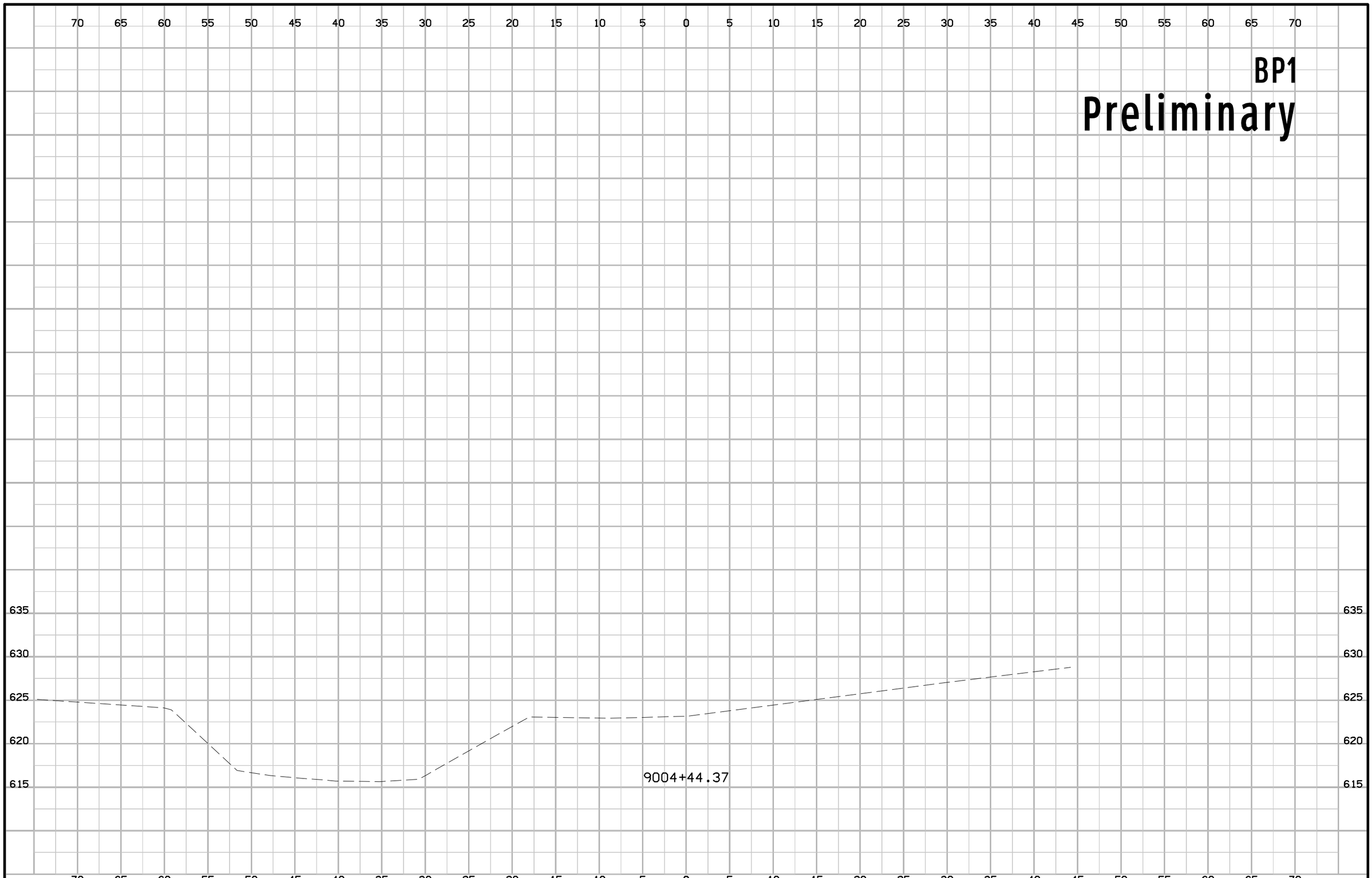


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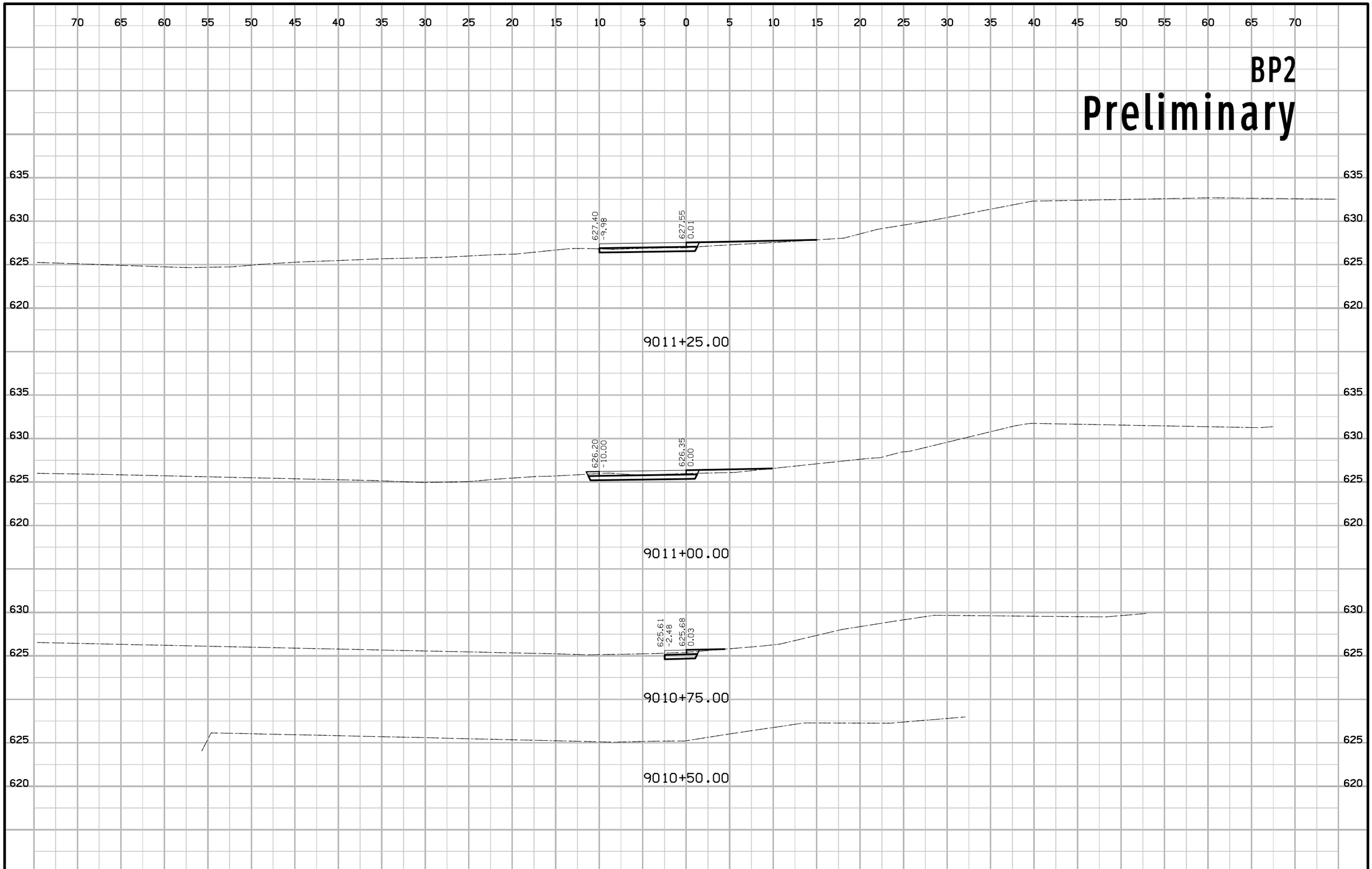


| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER X.7 |
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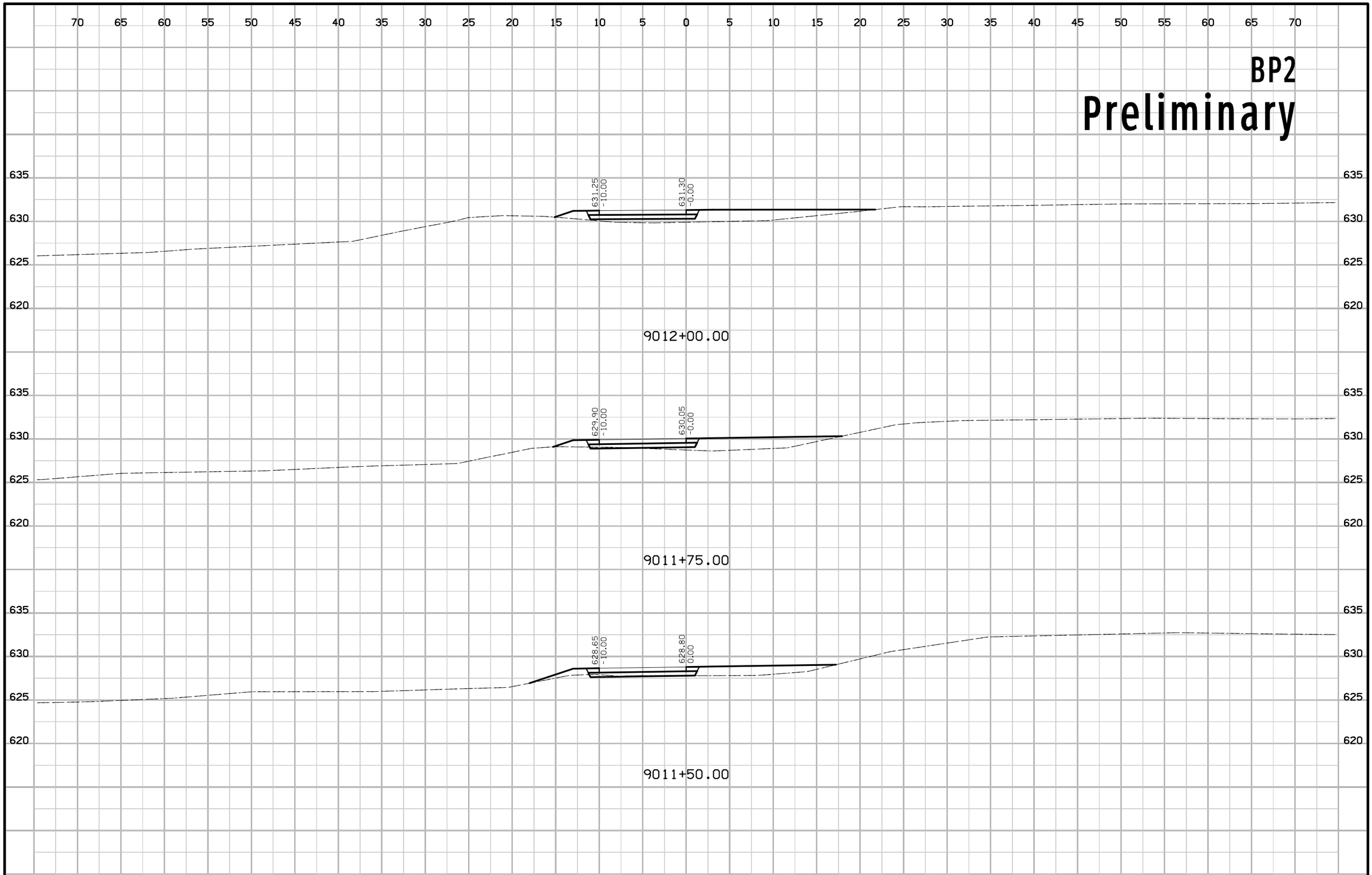


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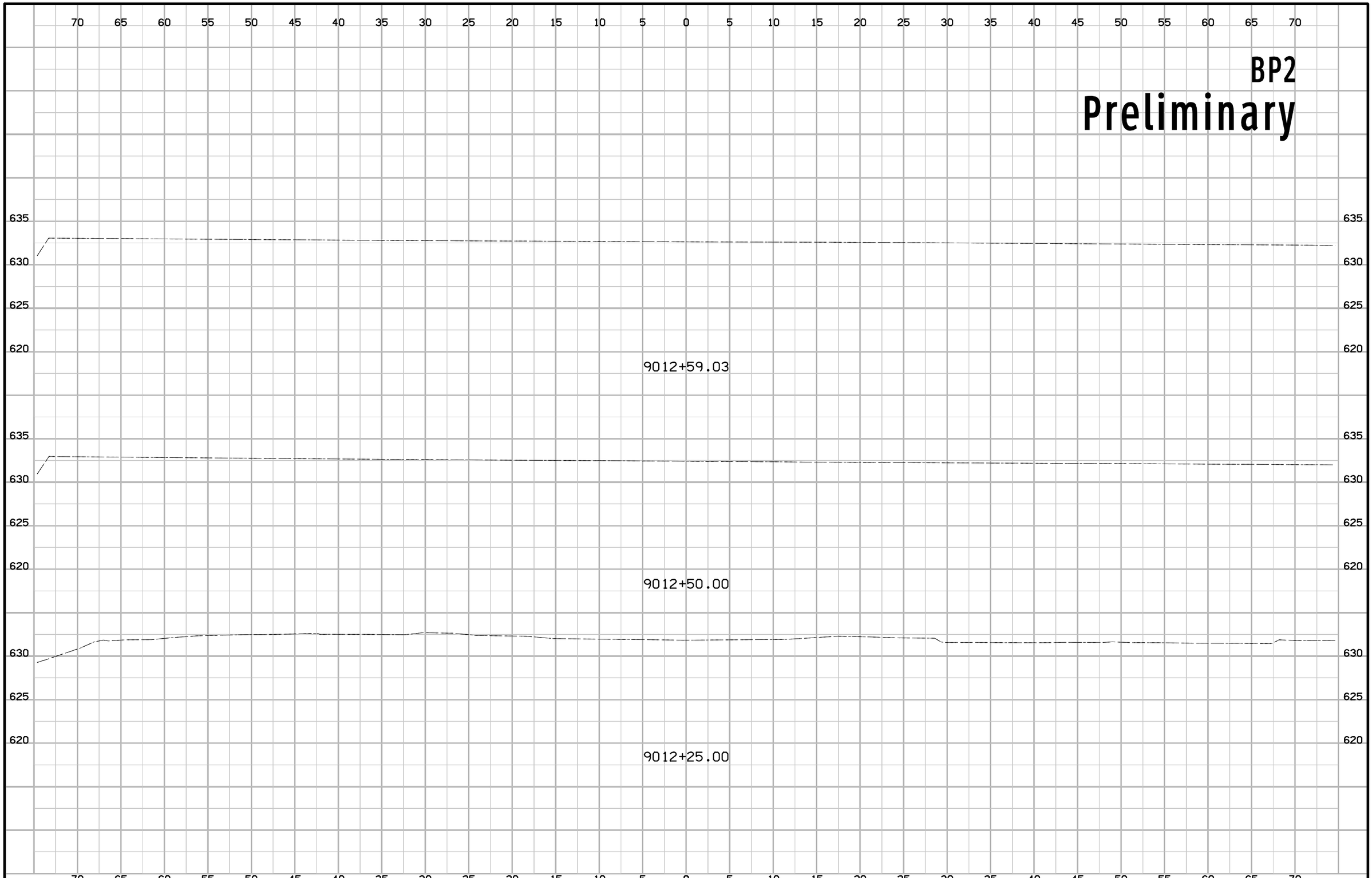


| FILE NO. | ENGLISH | DESIGN TEAM J1a \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER X.9 |
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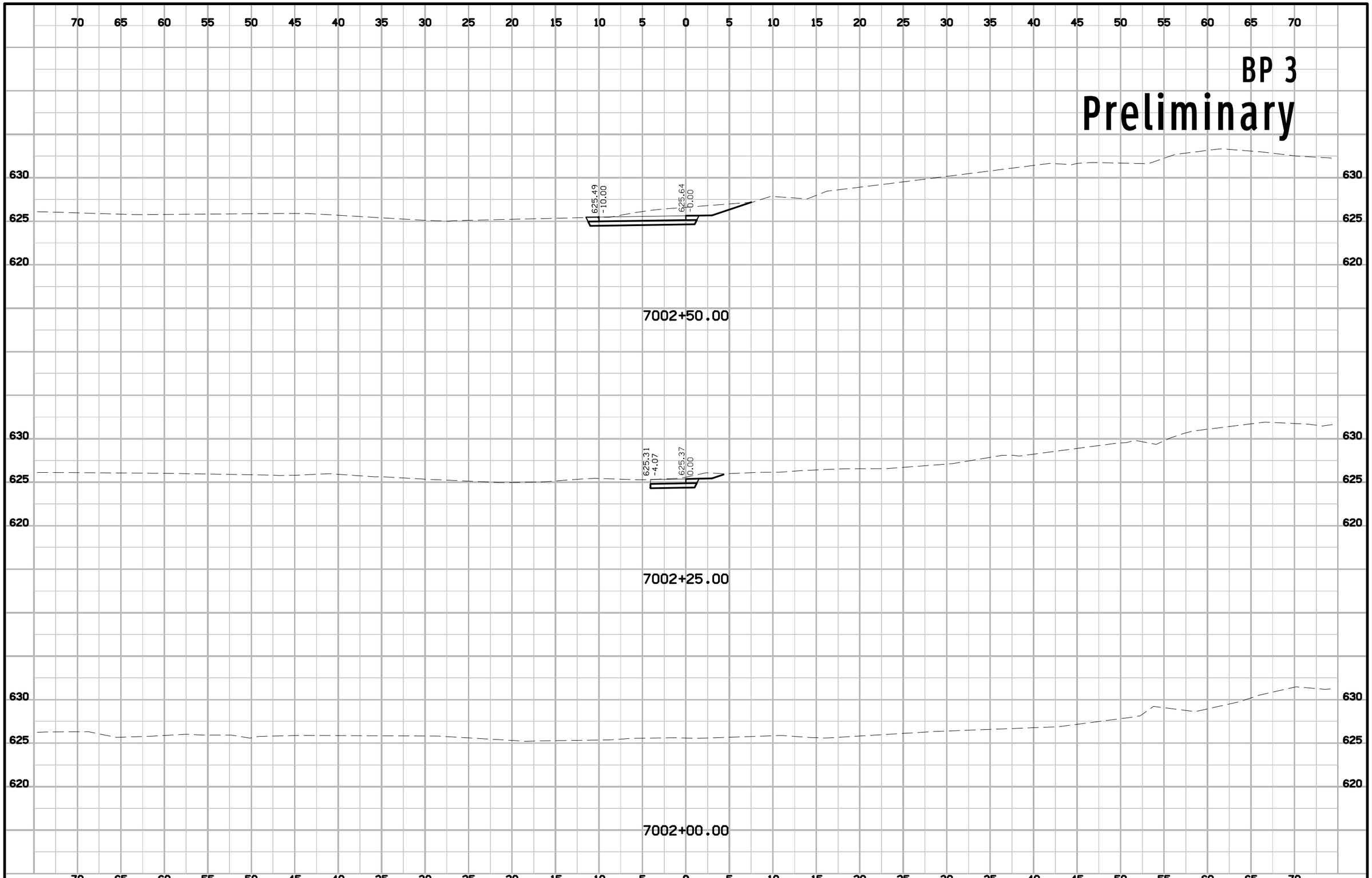


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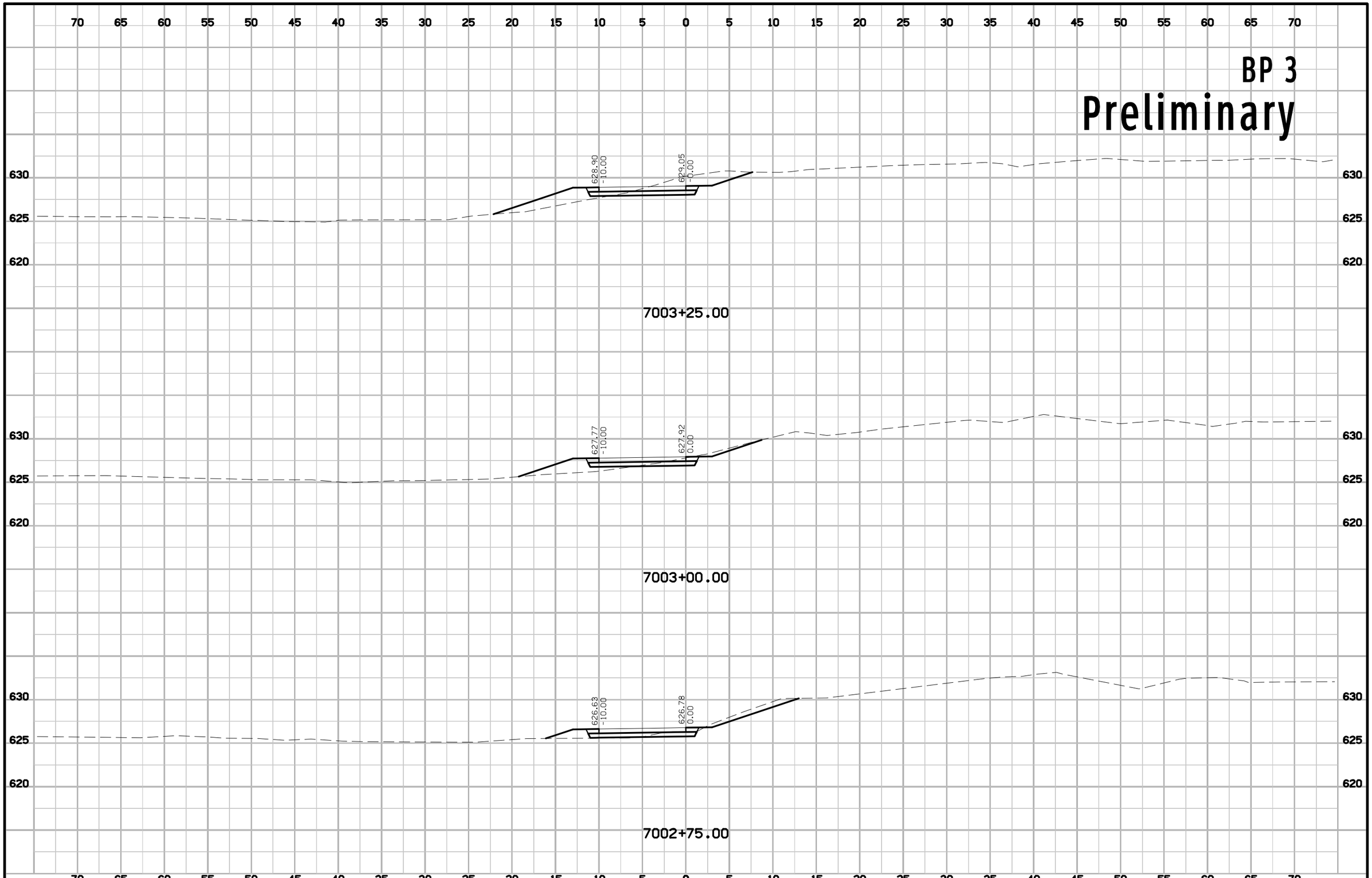
3:35:00 PM 9/17/2019 jkoch pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\Projects\8246101016\Design\CADD\Sheet_Files\82461009_X03.dgn

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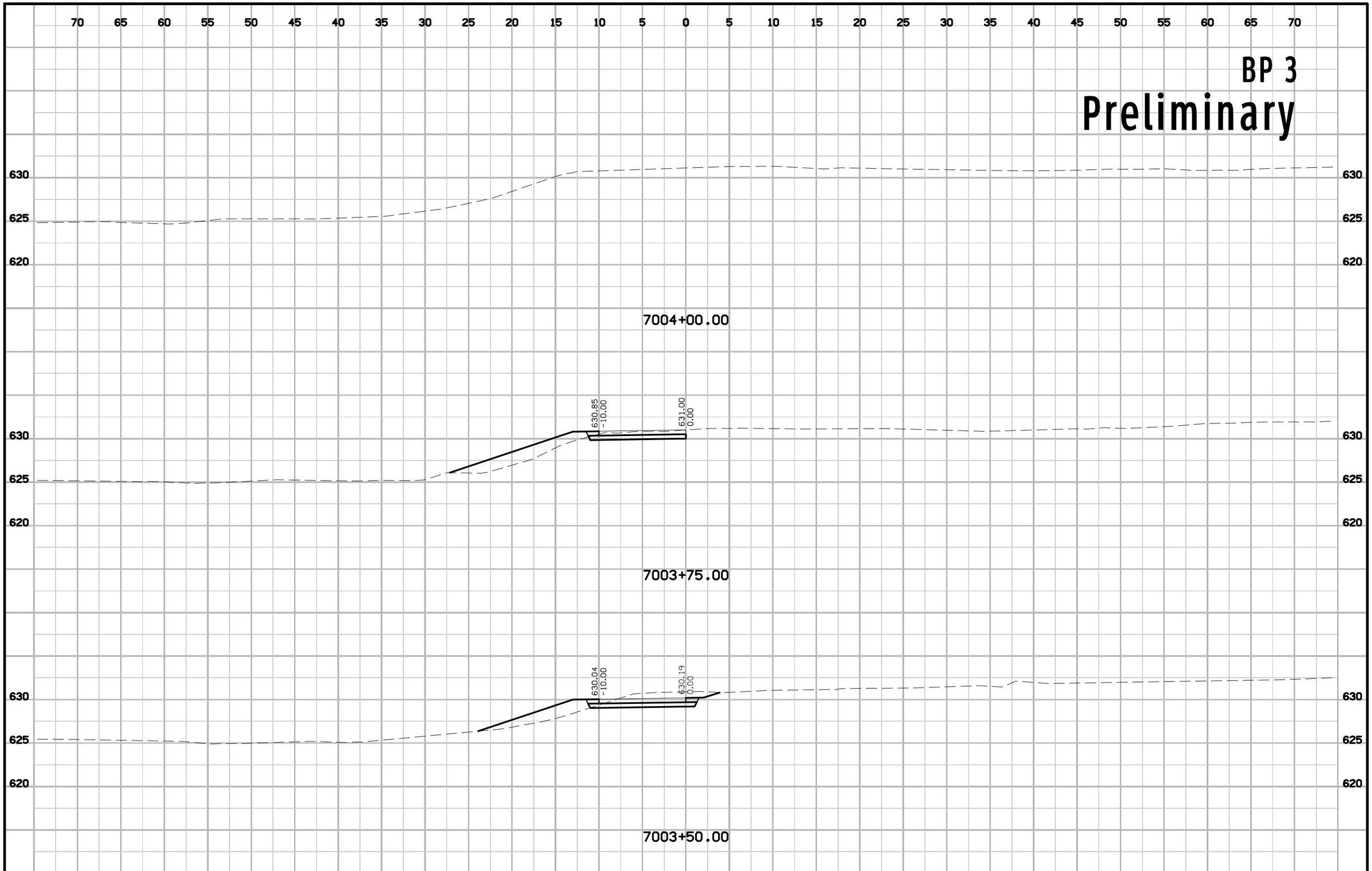


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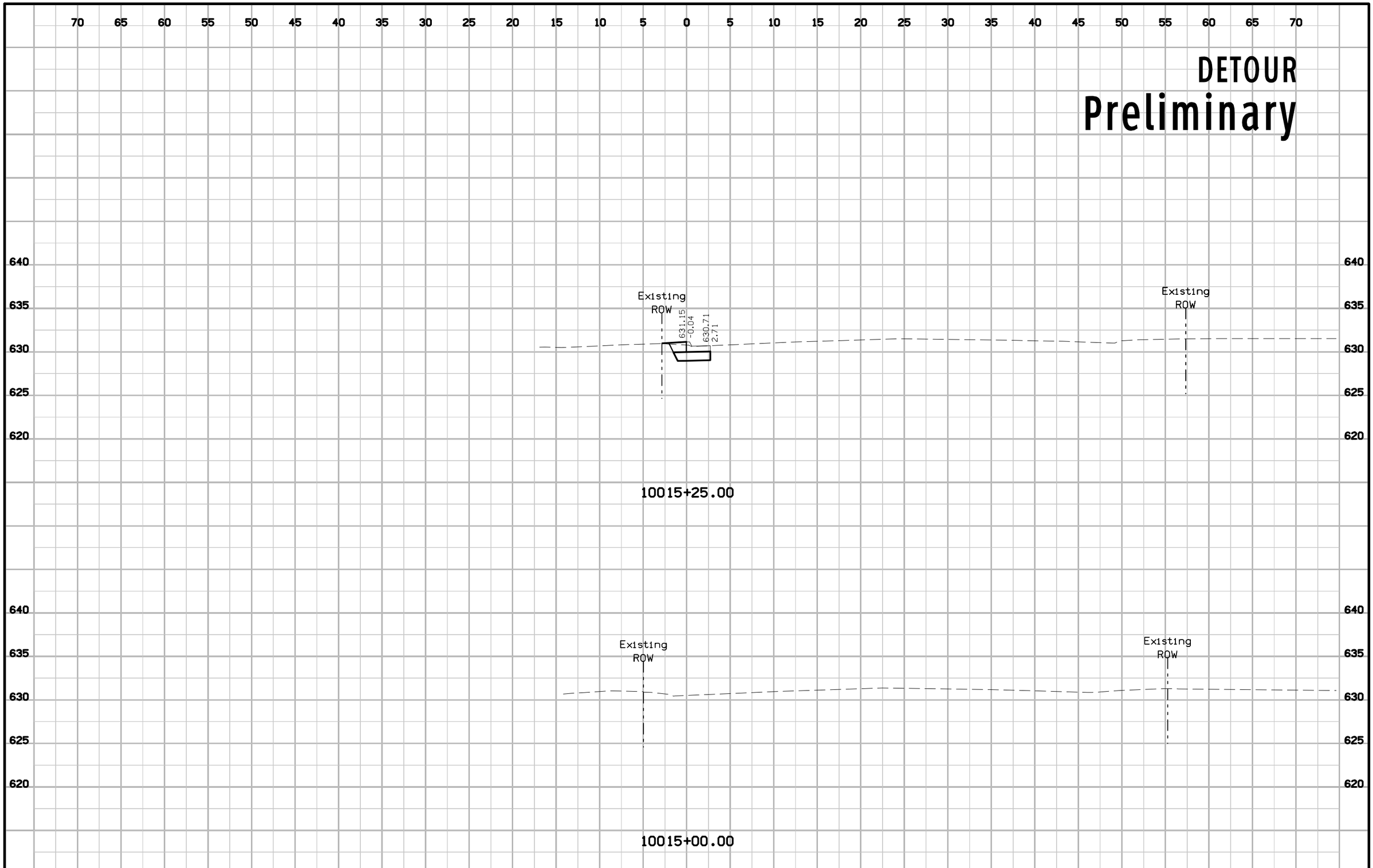


| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER Y.1 |
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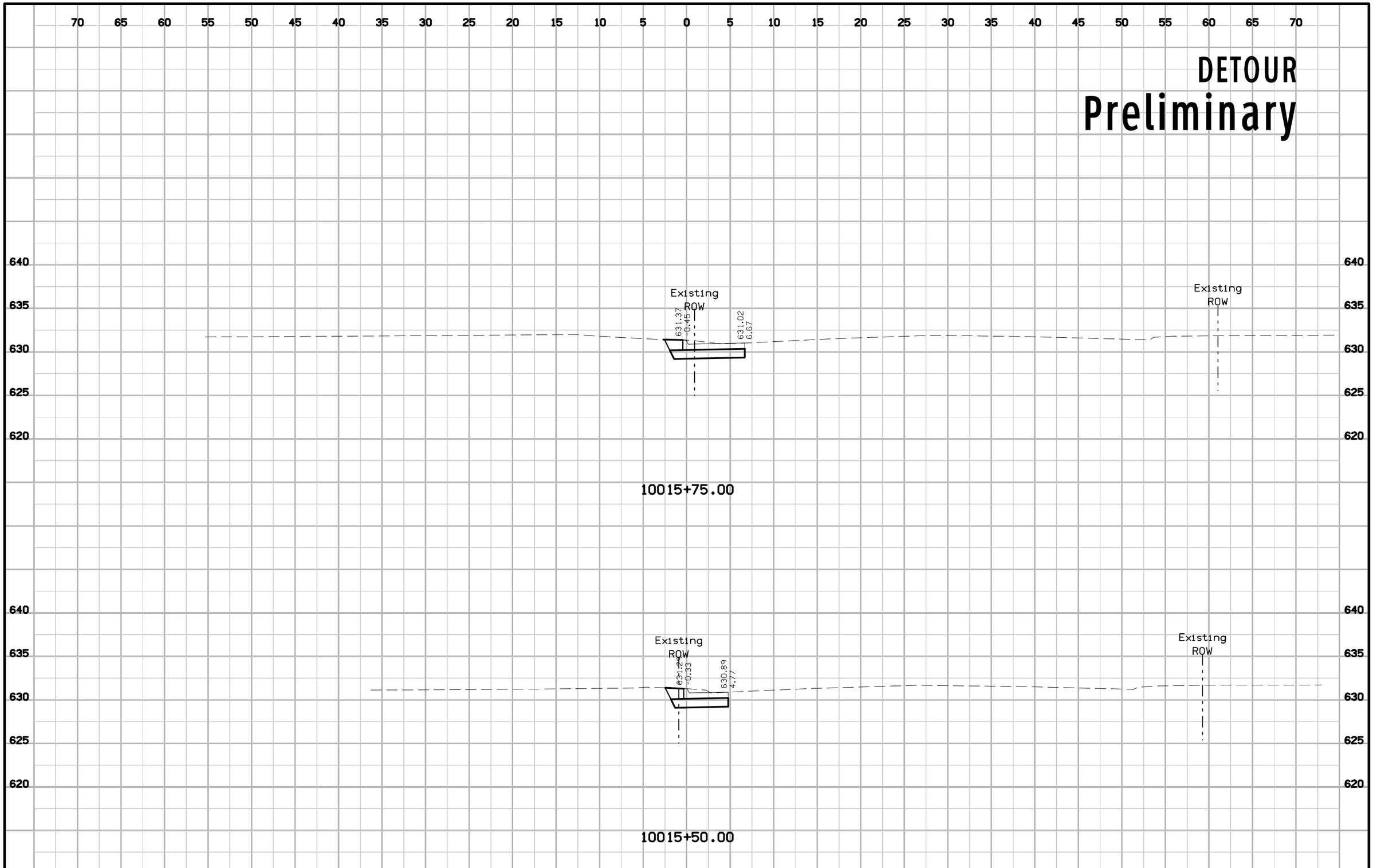
# DETOUR
# Preliminary




| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER Y.2 |
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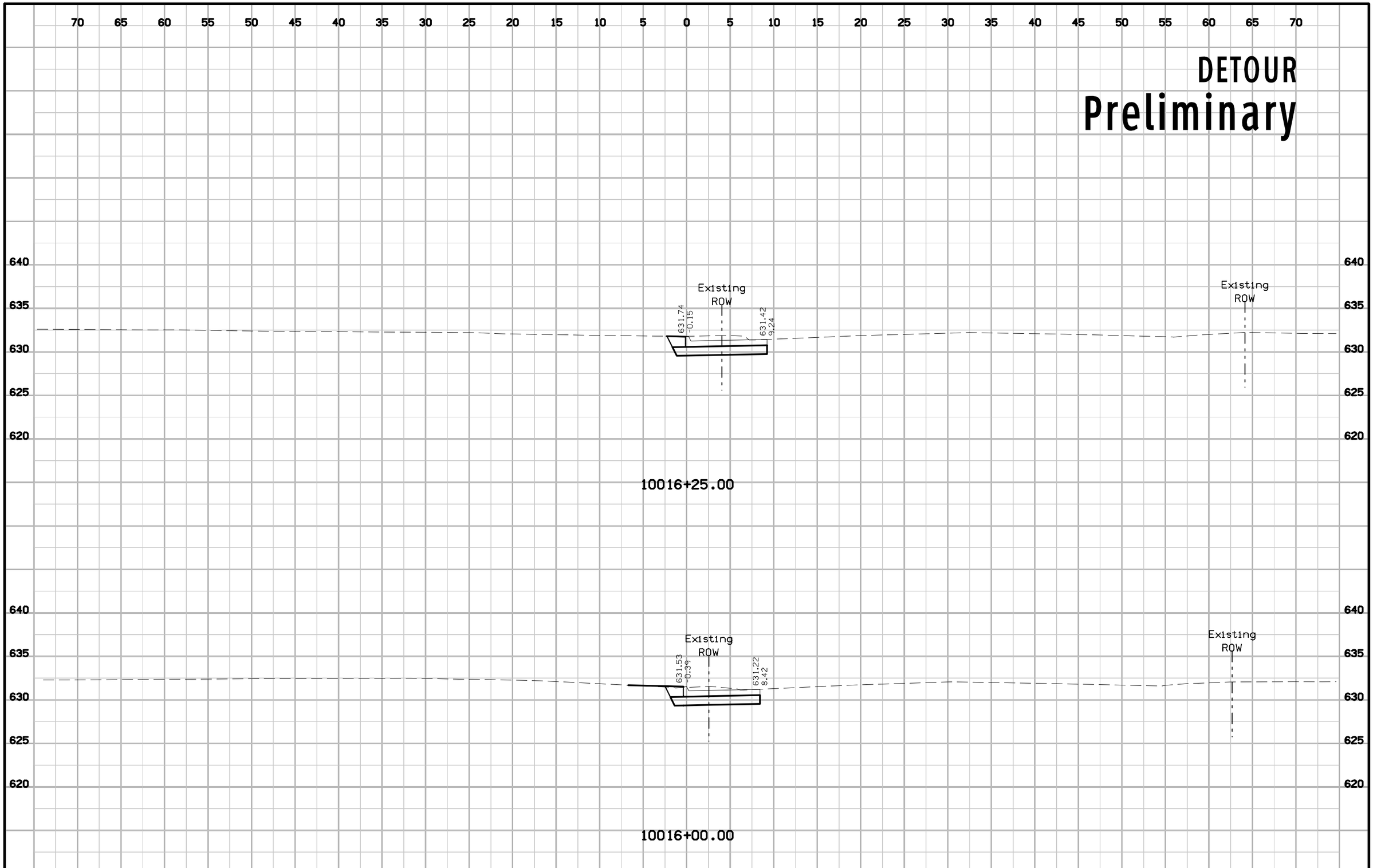
# DETOUR
# Preliminary

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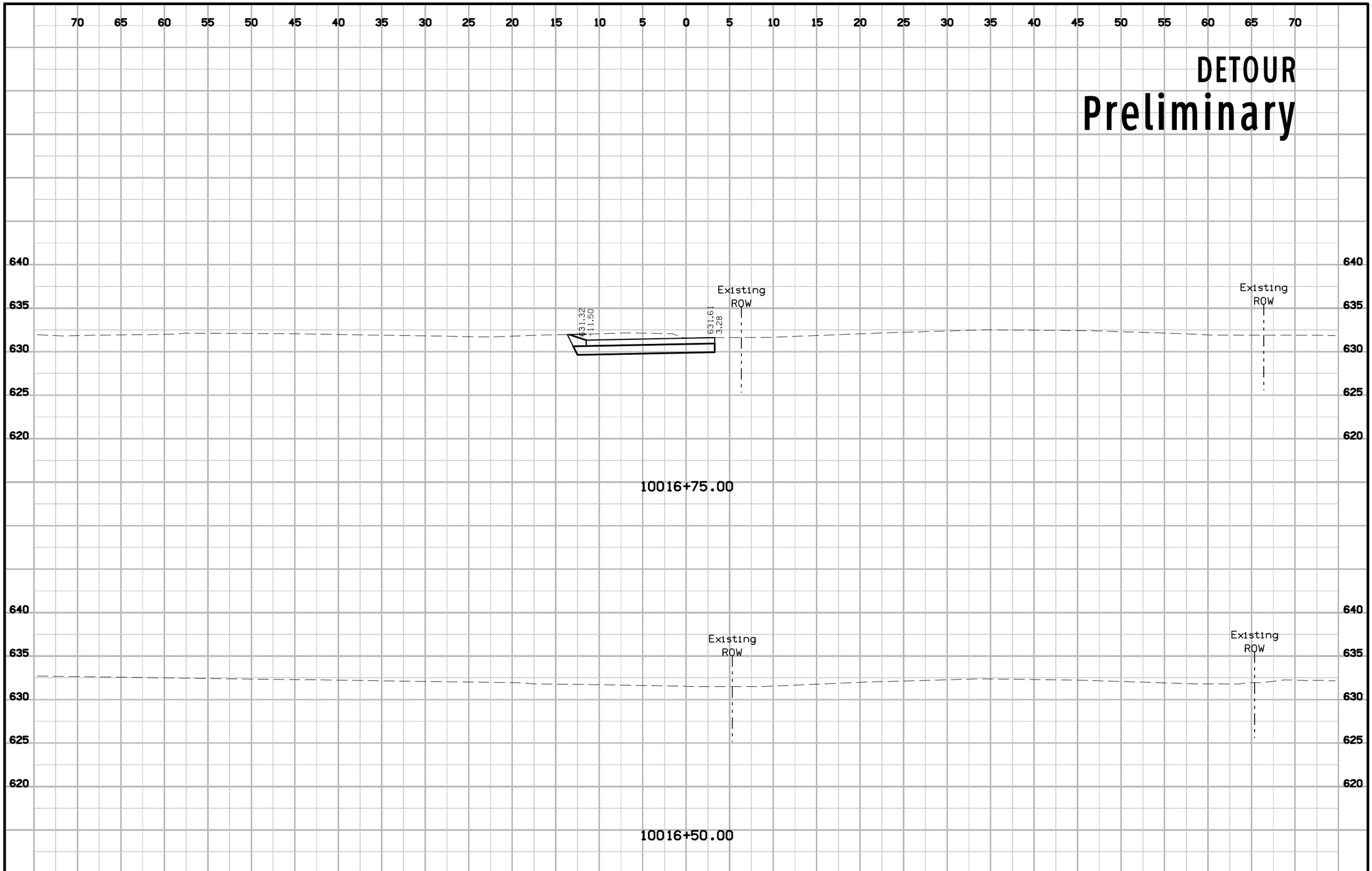


| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER Y.4 |
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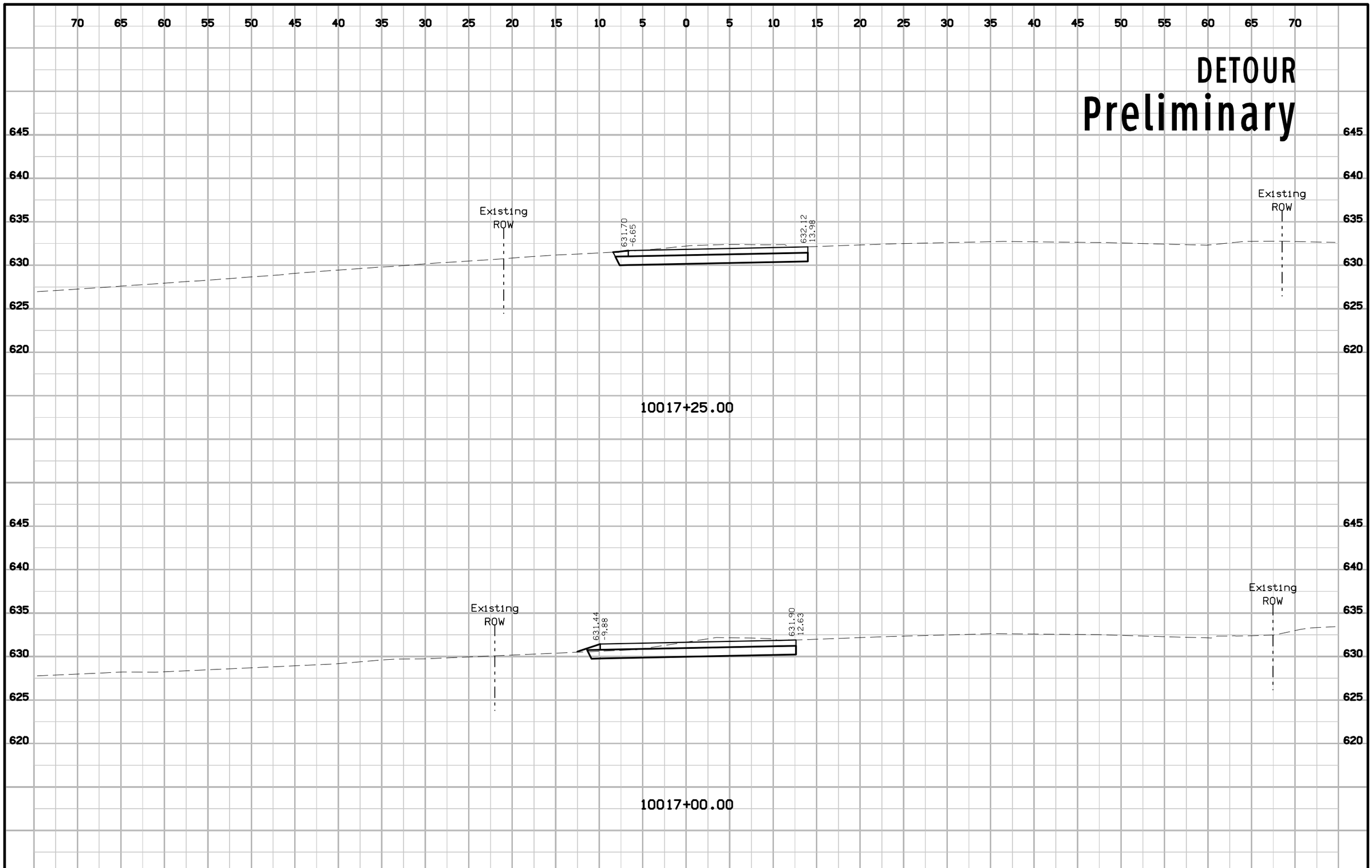


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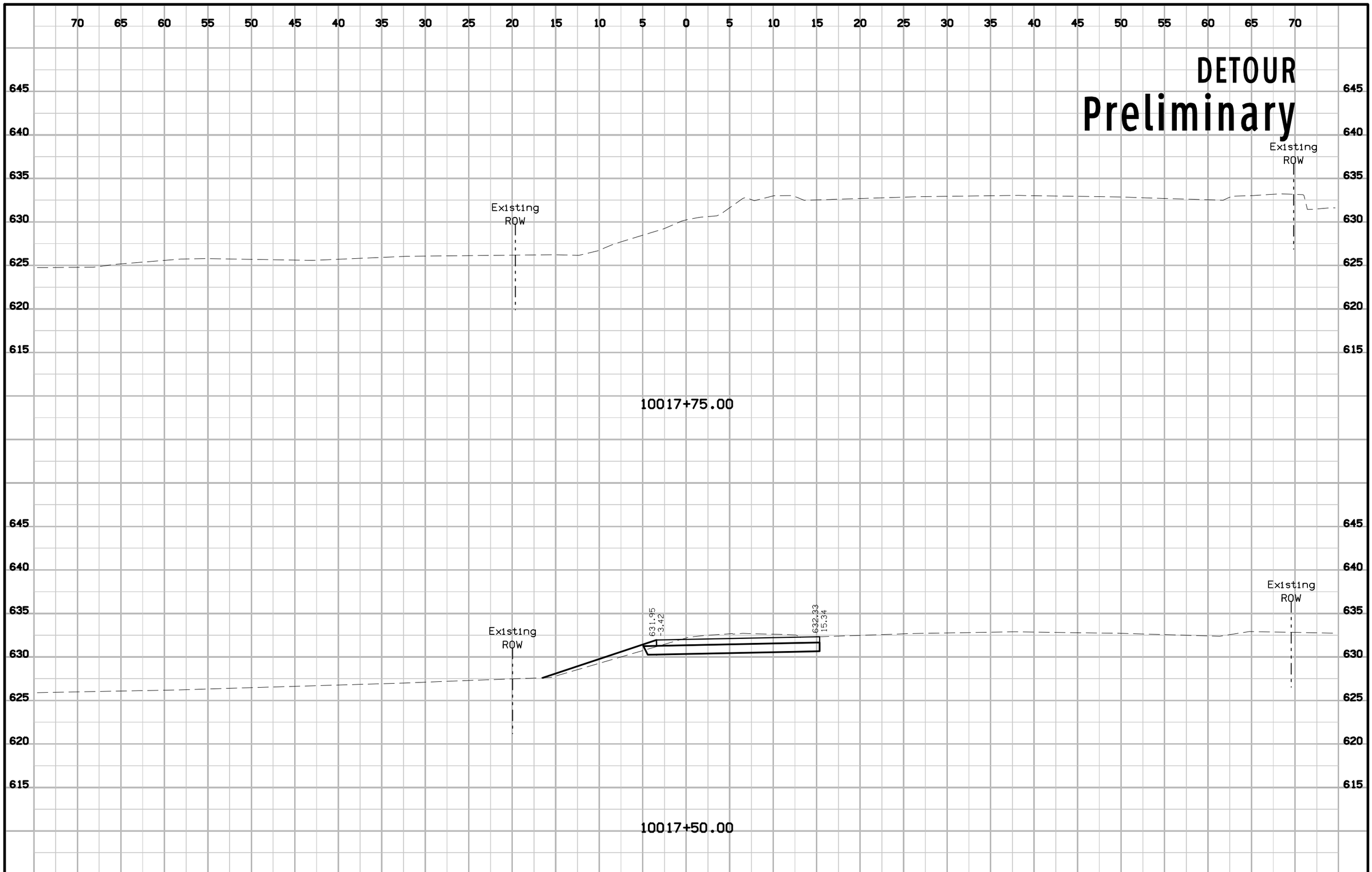


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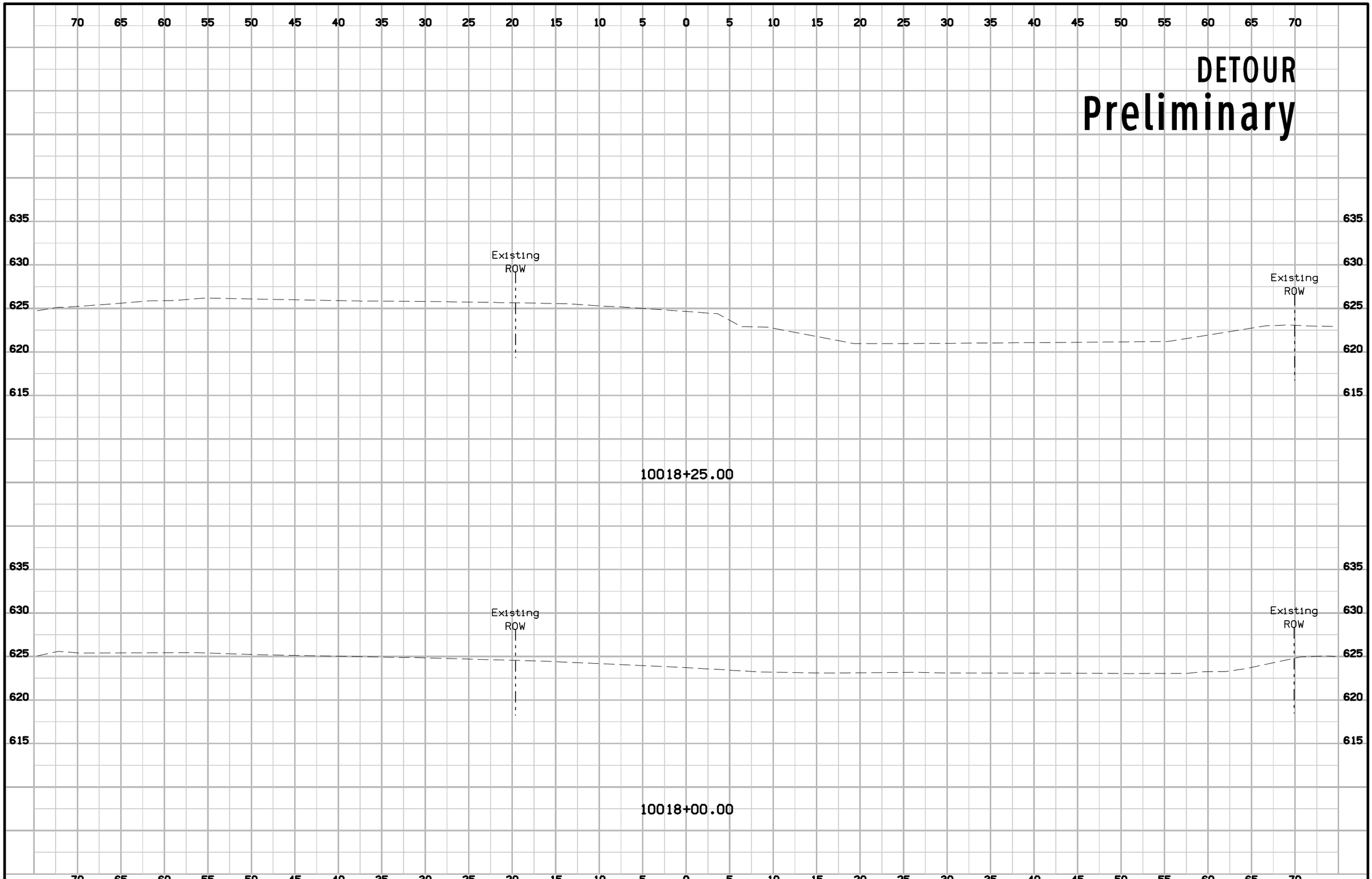


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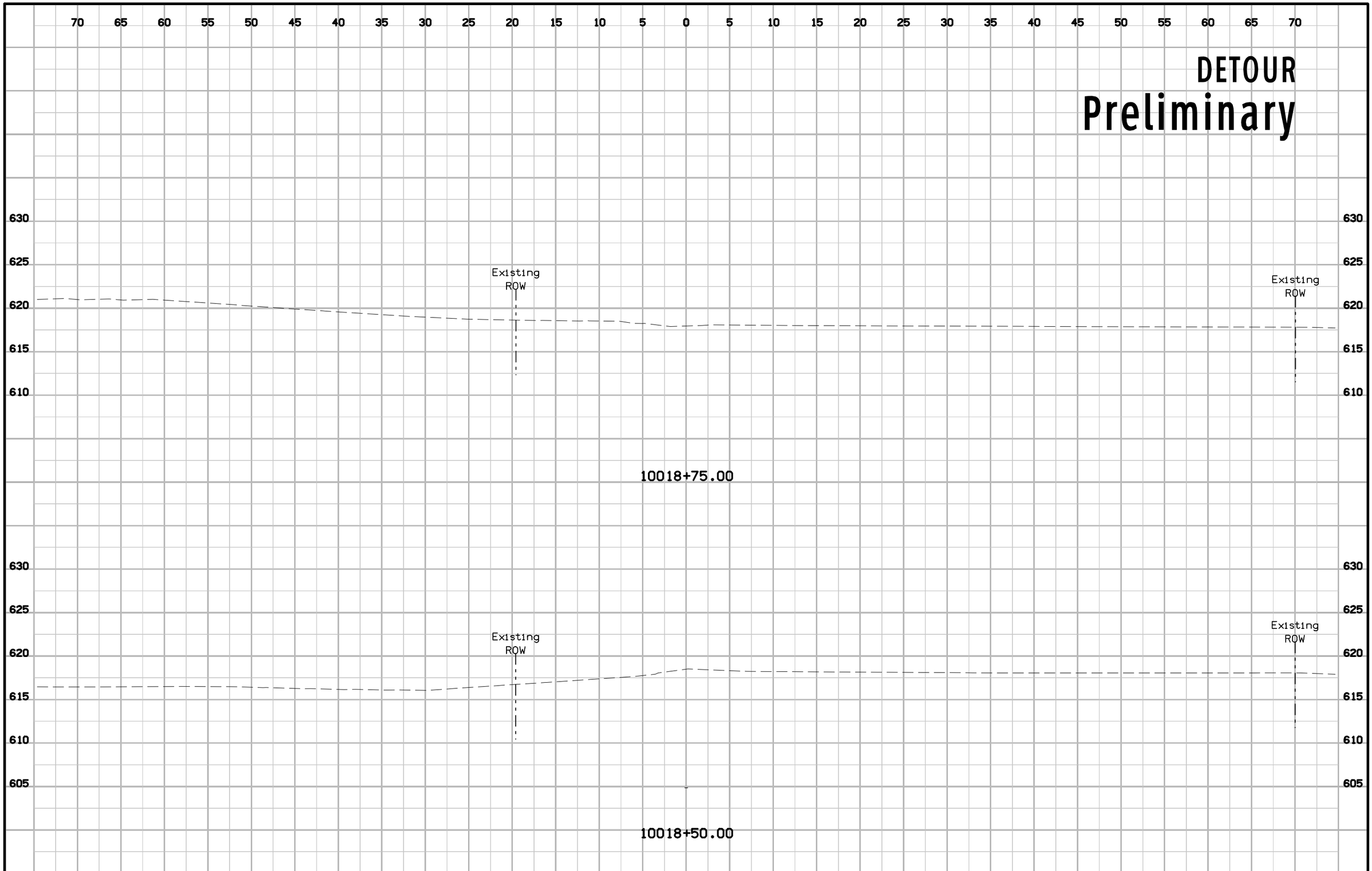


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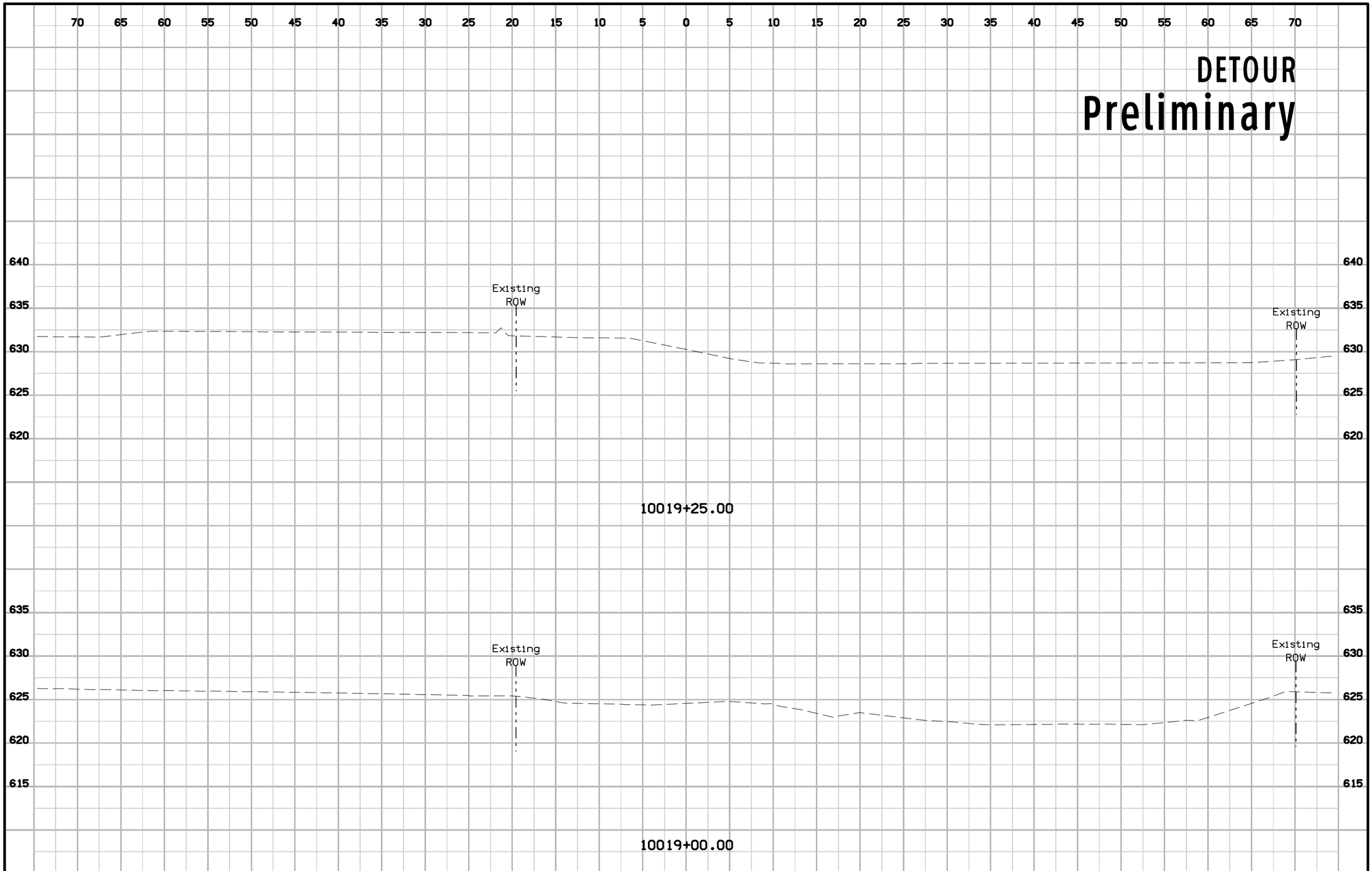


| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER Y.9 |
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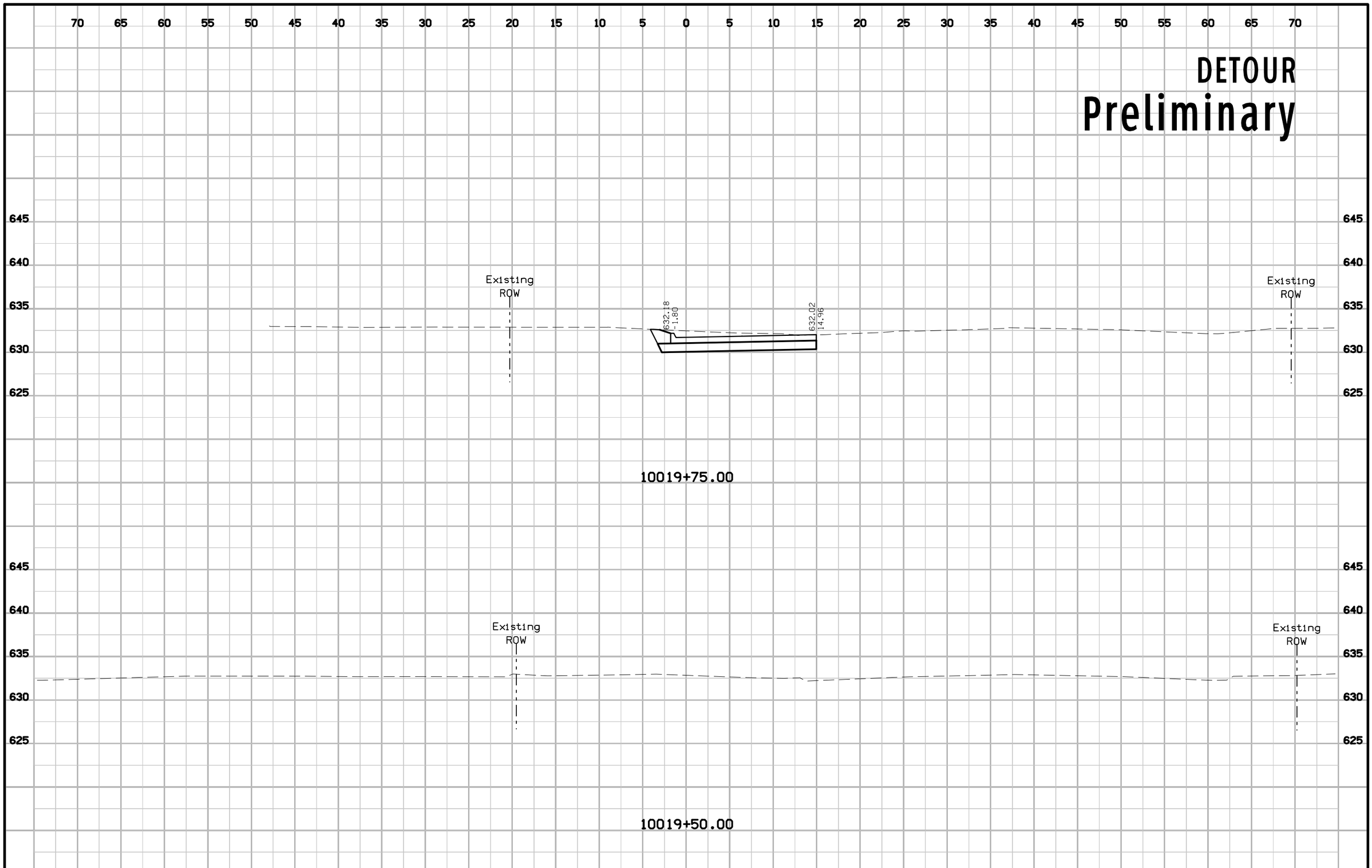
# DETOUR
# Preliminary




| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER Y.10 |
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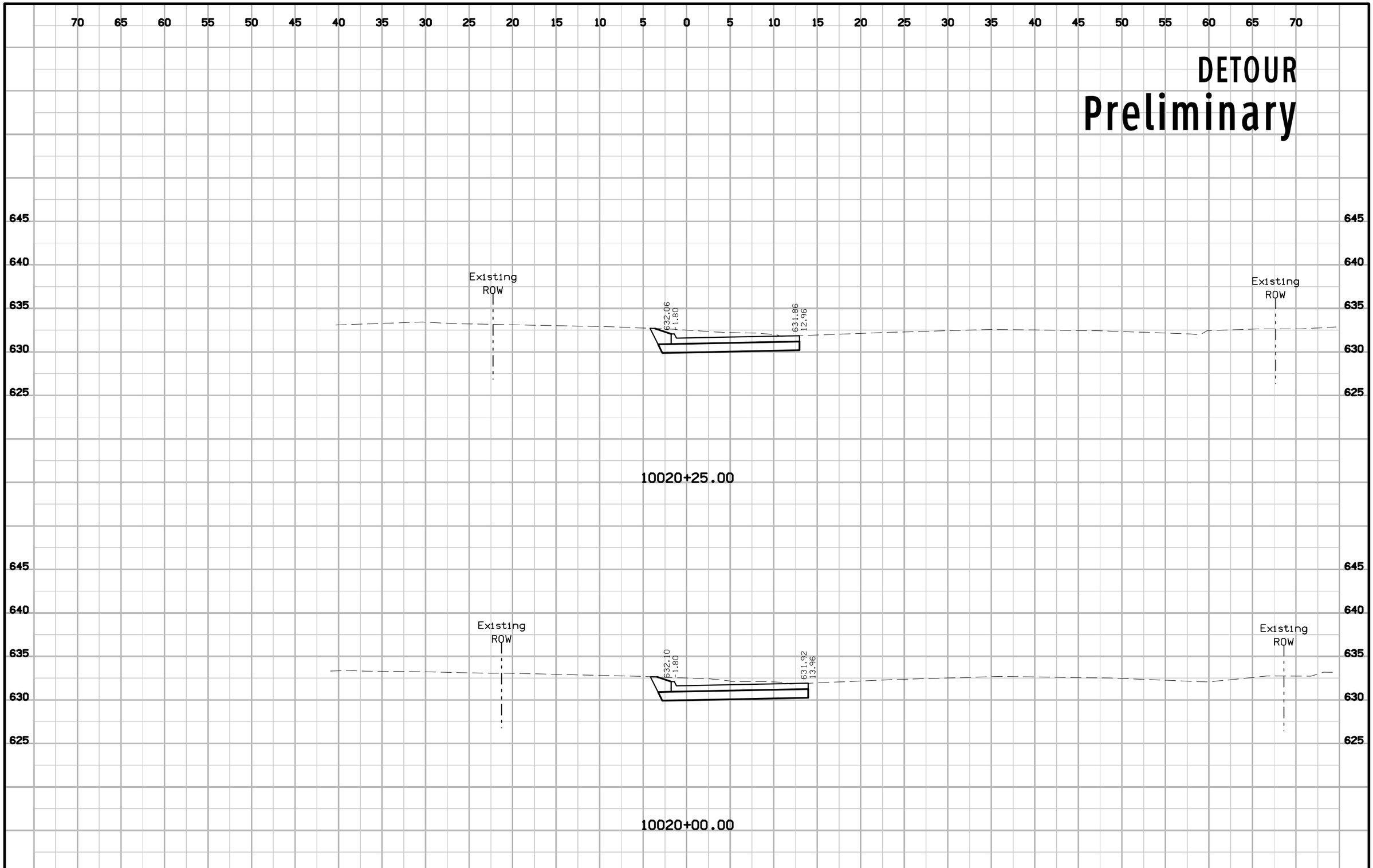
# DETOUR
# Preliminary




| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER Y.11 |
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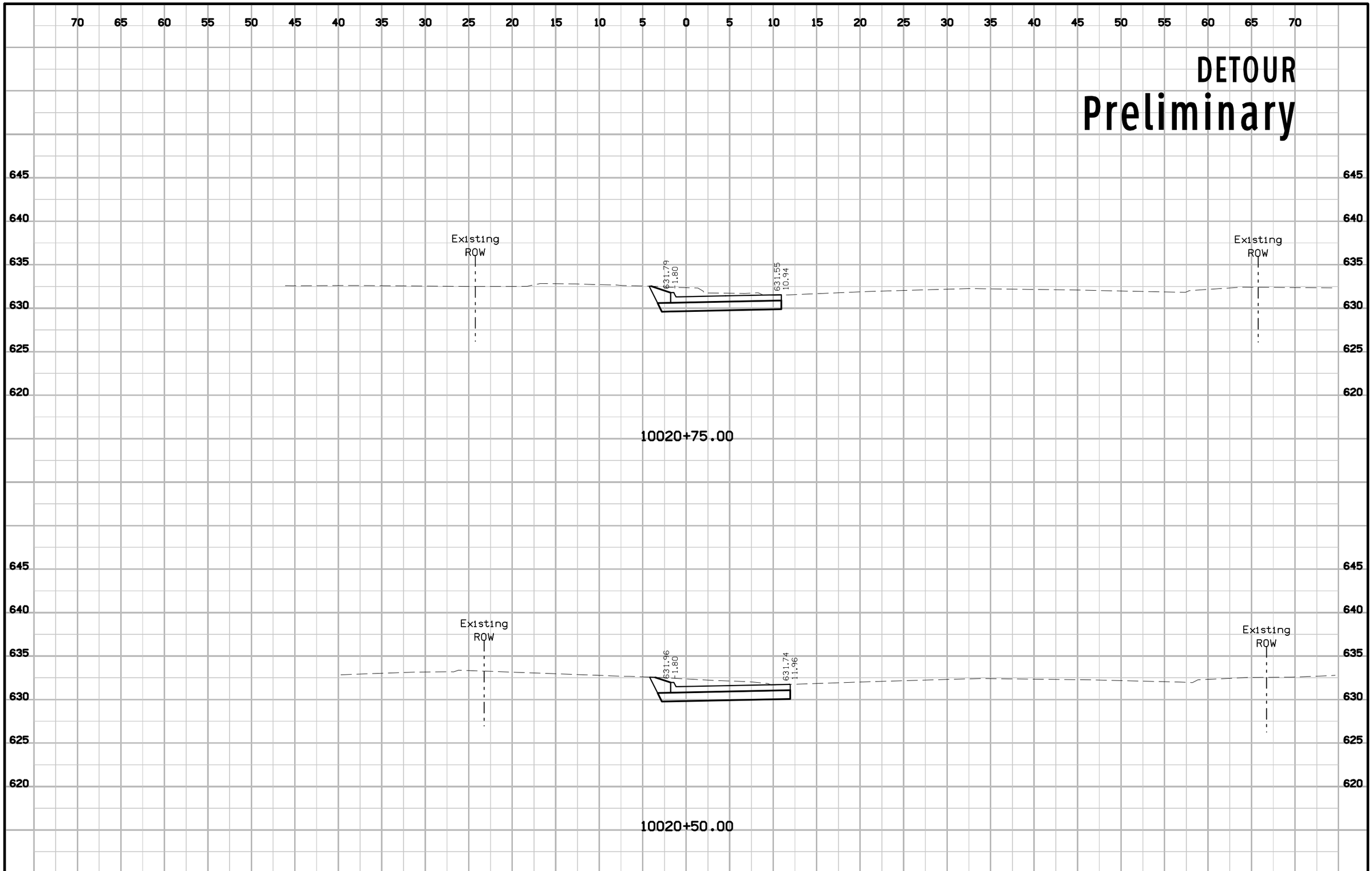
# DETOUR
# Preliminary




| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER Y.12 |
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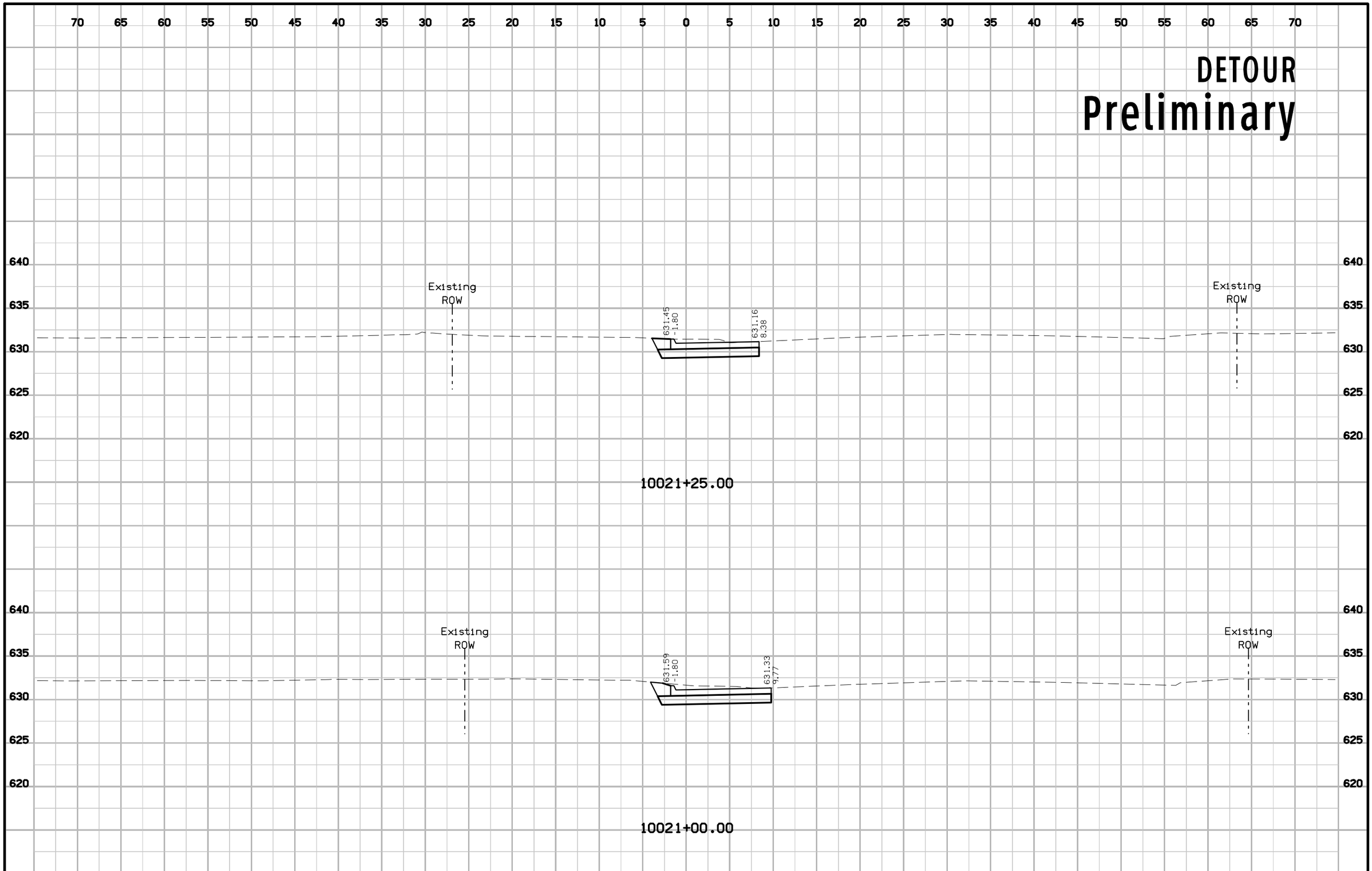
# DETOUR
# Preliminary




| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER Y.13 |
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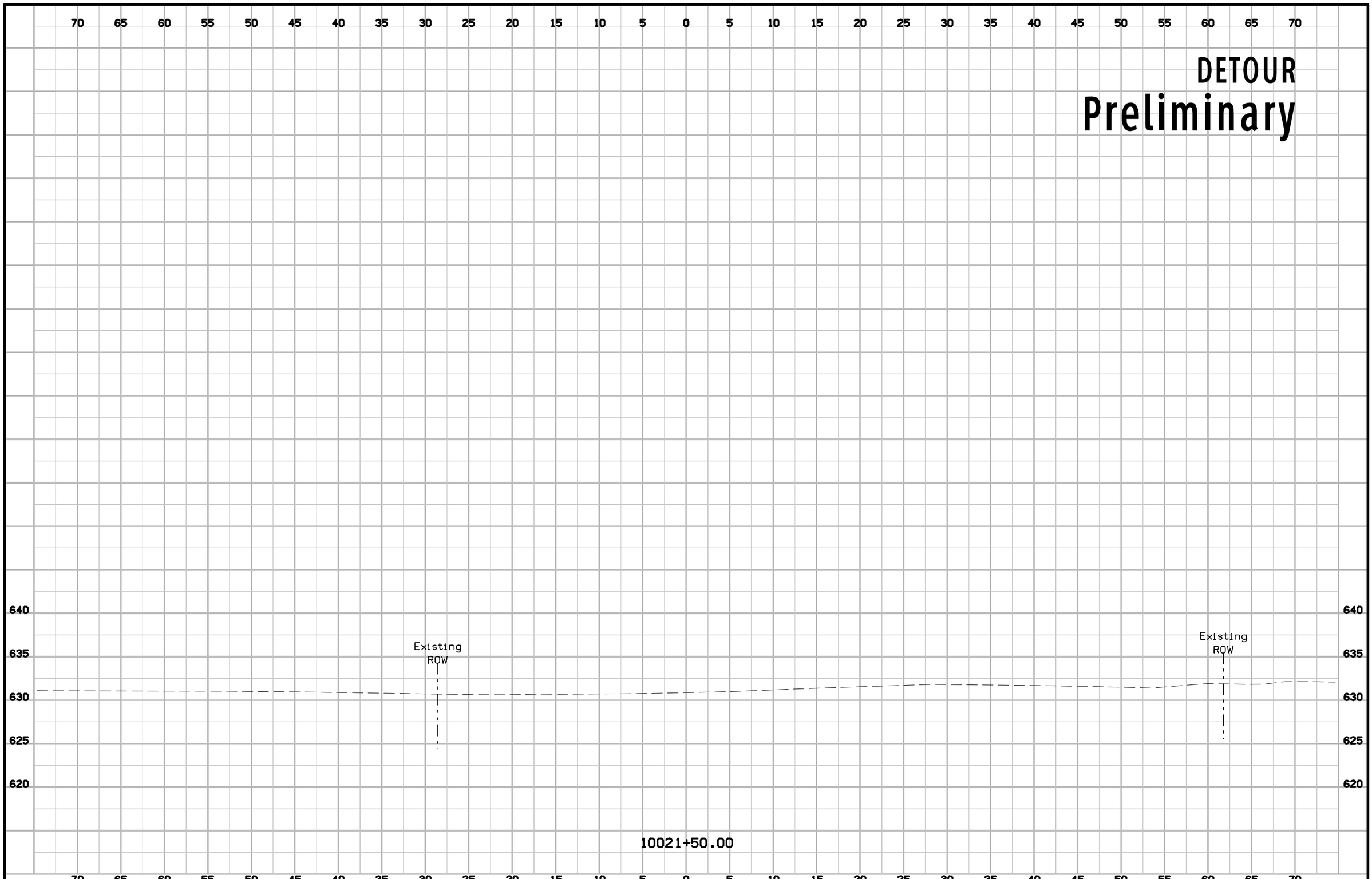


| FILE NO. | ENGLISH | DESIGN TEAM Jia \ Fullarton | SCOTT COUNTY | PROJECT NUMBER BRF-461-1(9)--38-82 | SHEET NUMBER Y.14 |
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