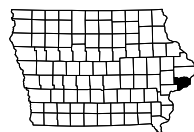


INDEX OF SHEETS	
No.	DESCRIPTION
<b>A Sheets</b>	<b>Title Sheets</b>
A.1	Title Sheet
A.2	Location Map Sheet
A.3	Field Exam Checklist
A.4 - 11	Project Concept Statement
<b>B Sheets</b>	<b>Typical Cross Sections and Details</b>
B.1 - 4	Typical Cross Sections and Details
<b>D Sheets</b>	<b>Mainline Plan and Profile Sheets</b>
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 3	U.S. 461
<b>E Sheets</b>	<b>Side Road Plan and Profile Sheets</b>
* E.1	E. George Washington Blvd.
* E.2	E. 35th St.
* E.3	Duck Creek Trail Pkwy.
* E.4	Bike Path 2
<b>F Sheets</b>	<b>Detour or Temporary Pavement Sheets</b>
* F.1 - 2	Detour Plan and Profile Sheets
<b>G Sheets</b>	<b>Survey Sheets</b>
G.1 - 3	Reference Ties and Bench Marks
<b>J Sheets</b>	<b>Traffic Control and Staging Sheets</b>
* 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 - 7	Staging and Traffic Control Sheets Stage 1
* J.8 - 11	Staging and Traffic Control Sheets Stage 2
* J.12 - 13	Staging and Traffic Control Sheets Stage 3
<b>V Sheets</b>	<b>Bridge and Culvert Situation Plans</b>
V.1	Bridge and Culvert Situation Plan
<b>W Sheets</b>	<b>Mainline Cross Sections</b>
W.1	Cross Sections Legend & Symbol Information Sheet
W.2 - 8	Mainline Cross Sections
<b>X Sheets</b>	<b>Bike Path Cross Sections</b>
X.1 - 8	Bike Path Cross Sections
<b>Y Sheets</b>	<b>Detour Cross Sections</b>
Y.1 - 14	Ramp Cross Sections
	* Color Plan Sheets



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



**Highway Division**

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

**SCOTT COUNTY  
BRIDGE UNSPECIFIED**

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.



REVISIONS

TOTAL

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

D3 - Date: 8-2-19

D5 - Date: 11-8-19

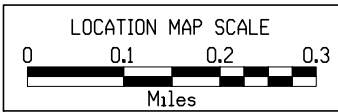
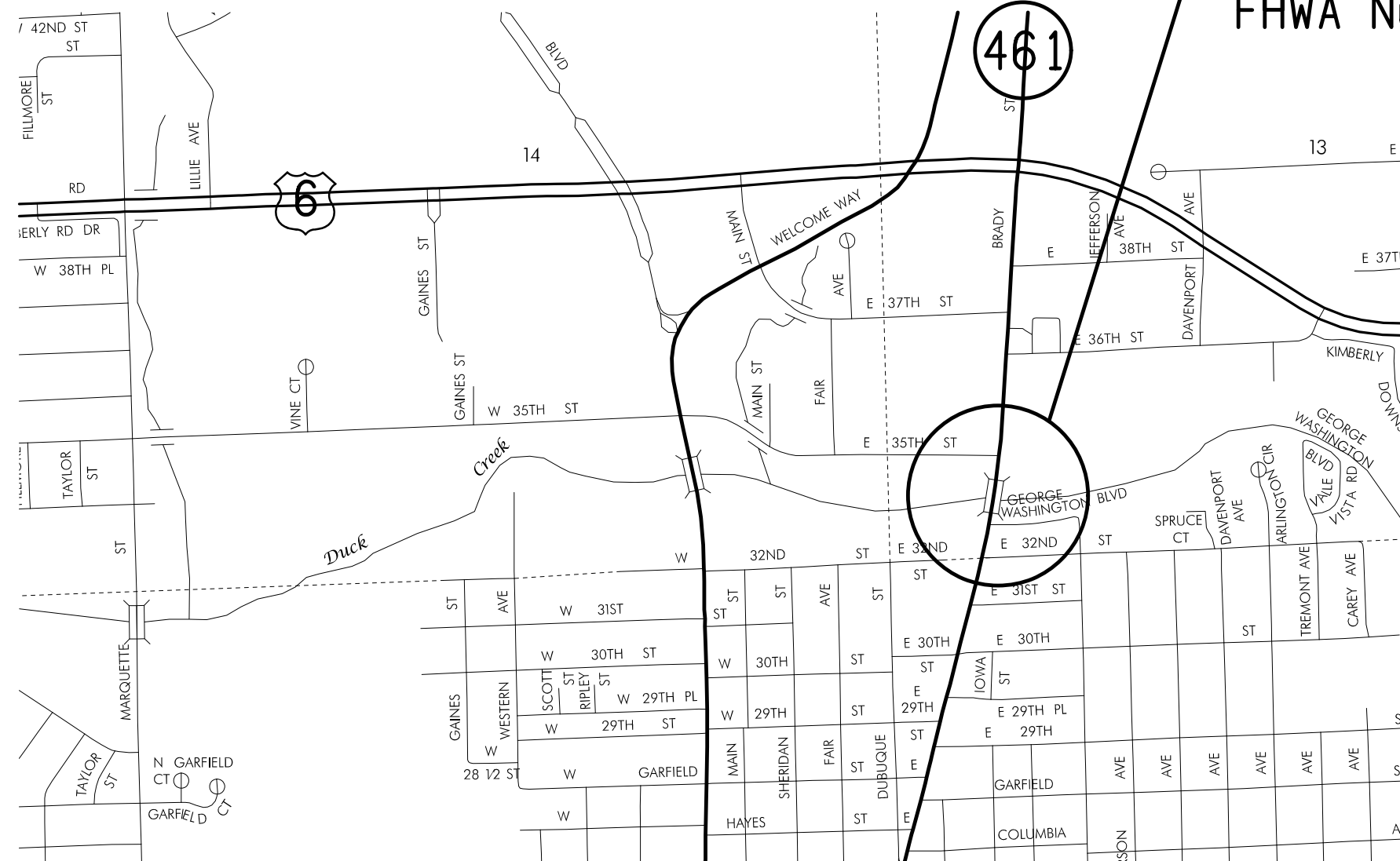
**PRELIMINARY PLANS**

Subject to change by final design.

D2 PLAN - Date: 7-2-19

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  
 M.P. 120.10  
 FHWA Number 46940



# FIELD EXAM CHECKLIST

Speed Limit during construction?

Clearing and Grubbing by area or unit?

If by unit, need District to provide count.

Are there existing drainage problems?

Are there areas adjacent to the project where additional drainage work needs to be done?

Is special erosion control needed (riprap, silt ditches, silt dikes, silt curtain, etc.)

Note condition of existing storm sewer.

Note any special features not shown on plans. Do any of the utilities need to be relocated (power/telephone poles)? Permanently or temporarily?

Are there any historical items within the project?

Any patching need to be done? Is the District going to provide patching locations?

Bike Path:

1. Clearance under bridge?
2. Elevation above streambed?
3. Paved Shoulder?
4. Limits of articulated mat?
5. Drainage?

Temporary connection to E. Geo. Washington Blvd. west & ent's at south end:

Rock? Paved?

TBR layout south of bridge?

IOWA DEPARTMENT OF TRANSPORTATION

TO OFFICE: District 6 DATE: August 7, 2017
ATTENTION: Jim Schnoebelen PROJECT: Scott County
FROM: Kevin K. Patel BRF-461-1(9)--38-82
OFFICE: Design PIN: 16-82-461-010
SUBJECT: Project Concept Statement; (Final Approval, D0)

M. E. Khoda S. J. Gent T. D. Crouch
J.W. Laaser-Webb W.A. Sorenson D. E. Sprengeler
E. C. Wright K. A. Yanna D. McDonald
C. L. Cutler D. Mulholland J. J. Tjaden
N. M. Abuissa T. M. Storey R. R. Walton
S. W. Flockhart M. Sloppy M. J. Donovan
V. A. Brewer FHWA

This project involves the replacement of the northbound IA 461 bridge (Maint No. 8220.1R061) over Duck Creek, 0.4 miles South of U.S. 6 in Davenport.

A concept review was held on Friday, April 28, 2017. Those present included Newman Abuissa, Roger Walton, and Mark Brandl from the District 6 Office; Dave Mulholland from the Office of Bridges and Structures; and Kevin Patel and Seana Godbold from the Office of Design.

The existing bridge will be replaced with a 196' x 48' continuous concrete slab bridge with 5' and 11.4' sidewalks. A section of recreational trail that extends under the south side of the bridge will be replaced as it is anticipated that this will be damaged during construction. The new bridge will be constructed on the existing horizontal and vertical alignment. Traffic will be maintained by staged construction. The preliminary cost for this alternative is \$3,005,900.

This alternative maintains two lanes of traffic at all times (see attached concept for details). An alternative that maintained one lane of traffic was discussed; however, this option was dismissed from further consideration. Right of way will be required.

The Draft Project Concept Statement was sent out for review and comment with concerns to be resolved by Thursday, August 3rd, 2017. Comments received during the review period have been considered and resolved.

This project is recommended for construction in FY 2021. The Office of Bridges and Structures will coordinate plan preparation with assistance from the Office of Design.

KKP: skg
Attach.
cc:

- C. Purcell M. J. Kennerly K. D. Nicholson
M. E. Ross S. J. Megivern A. A. Welch
N. M. Miller C. C. Poole N. L. McDonald
G. A. Novey D. R. Claman P. Lu
A. Abu-Hawash M. A. Swenson M. J. Sankey
R. A. Younie D. R. Tebben B. D. Hofer
K. Brink D. L. Newell B. E. Azeltine

FINAL PROJECT CONCEPT STATEMENT

On IA 461 Over Duck Creek 0.4 Miles S. of U.S. 6 in Davenport

Scott County  
BRF-461-1(9)--38-82  
PIN: 16-82-461-010  
Maint. No. 8220.1R061  
FHWA No. 46940

Highway Division  
Office of Design

Kevin K. Patel, P.E.  
515-239-1540

August 7, 2017

I. STUDY AREA

A. Project Description

This project involves the replacement of the northbound IA 461 bridge (Maint. No. 8220.1R061) over Duck Creek, 0.4 miles south of U.S. 6 in Davenport.

The existing bridge will be replaced with a continuous concrete slab bridge that is 196' x 48' with 5' and 11.4' sidewalks. Traffic will be maintained using staged construction. The preliminary cost for this alternative is \$3,005,900.

B. Need for Project

The existing 153' long by 48' wide concrete slab bridge was built in 1952. The deck was first overlaid in 1972 and overlaid again in 1988. The existing overlay is at the end of its useful service life. The bridge is functionally obsolete due to the deck geometry. The bridge was designed for live loads below current standards; therefore, this bridge should be replaced.



Looking west



Looking south

Scott County  
BRF-461-1(9)--38-82  
PIN: 16-82-461-010  
Page 2

C. Present Facility

The existing structure is a 153' x 48' concrete slab bridge constructed in 1952.

IA 461 was originally paved with 18'-wide 7" PCC pavement in 1929, complete with curb and gutter. The roadway was widened to 48' in 1952 with 6" PCC integral pavement (49' back to back pavement section/69' top width including 10' shoulders). HMA resurfacing was completed in 1983 with a 3" lift.

D. Traffic Estimates

The 2021 and 2041 average daily traffic estimates are 22,100 ADT with 2% trucks and 25,200 ADT with 2% trucks, respectively.

E. Sufficiency Ratings

IA 461 is classified as a "Commercial & Industrial" route and is a maintenance service level "B" road. The federal bridge sufficiency rating is 73.2.

F. Access Control

Access rights will be acquired for this project. Four accesses will be impacted; the east entrance to The Rack Restaurant, the south and north entrances to Arby's, and the south entrance to the Davenport Stadium.

G. Crash History

During the five-year study period from January 1, 2010 through December 31, 2014, there were 13 crashes near the project location; which included 5 rear-end and 5 side-swipe collisions, 2 run off the road crashes and 1 failure to yield making a left turn.

II. PROJECT CONCEPT

A. Replace with a bridge while maintaining 2 lanes of traffic.

The existing northbound 153' x 48' steel I-beam bridge with 5' wide sidewalks on each side will be replaced with a 196' x 48' continuous concrete slab bridge with a 5' sidewalk on the east side and a 11.4' sidewalk on the west side. The sidewalk on the west side is 6.4' wider than necessary since staged construction, requires a wider bridge deck to maintain two lanes of traffic.

The typical cross section, adjacent to the bridge, will consist of four 12' lanes, providing a 49' back of curb to back of curb roadway.

The new bridge will be constructed on the existing horizontal and vertical alignment. The new 70'-long bridge approach sections will be removed and replaced.

New bridge end drains will be installed on each quadrant of the bridge. The new bridge end drains will tie in the existing storm sewer system. Temporary storm sewer intakes will be required in order to accommodate drainage for the pavement widening on the west side. These temporary intakes will be removed after stage one construction is complete and the new intakes will be installed with the new curb and gutter during stage two.

There is a recreational trail that extends under the south side of the bridge. It is anticipated that approximately 170 ft. of this trail may incur some damage due to construction activities and therefore will require replacement. The profile of this trail may need to be lowered to provide a minimum of 10' of vertical clearance in order to provide enough head room for bicyclists. Concrete slope protection will be placed on both bridge berm slopes. The area between the recreation trail and the concrete slope protection under the south side of the bridge will also be paved to minimize maintenance. Beyond the 3' edge of the shoulder of the recreational trail, articulated block mat will extend down the banks of Duck Creek. An additional 130' section of recreational trail will be relocated to tie into IA 461.

There are 4 accesses off of IA 461 (Brady Street) that will either need to be modified or closed due to conflicts with the new bridge, sight distance concerns, or impacts to the functional area of the IA 461/ E. 35<sup>th</sup> Street intersection.

The Rack Restaurant access off IA 461, at the southeast quadrant of the bridge, will be closed as the new, longer bridge and the proposed turned down end section of barrier rail prohibits the entrance from remaining open. A new access will be constructed off of E. George Washington Boulevard. Additional review may be required regarding the internal circulation of the restaurant parking lot and to ensure that vehicles turning into

this access do not negatively affect the operation of the IA 461/ E. George Washington Boulevard intersection.

The Arby's south entrance, on the northwest quadrant of the bridge, should be closed as the sight distance requirement is not met. Furthermore, the sight distance requirement for the northern access to Arby's is also not met. The north access is within the functional area of the adjacent E. 35<sup>th</sup> Street/ IA 461 intersection and may negatively affect the operation of the intersection. Therefore, the north entrance will also be closed. Access to Arby's would be maintained via E. 35<sup>th</sup> Street.

Sight distance is not met at the south access to the Davenport Stadium, on the NE quadrant of the bridge. The south access should be modified such that it provides for right in movements only.

Utility companies, with utilities within the DOT right of way, will be responsible for removal and replacement of hydrants, power poles, overhead lines, lighting, and any other subsurface utilities. There may be additional utilities outside of the DOT right of way that may require relocation. Special attention should be given to the large utility poles on the east side of the bridge.

Apply erosion control and rural seeding and fertilizing to all disturbed areas.

Traffic will be maintained by staged construction requiring two lanes of traffic be maintained for both stages of construction.

It appears that right of way will be required for this project.

<b>Bridge Items</b>	<u>Estimated Cost</u>
New Bridge	\$ 1,282,500
Bridge Stage Construction – 10% Bridge Rep. Cost	128,200
Remove Existing Bridge	77,000
Structural Steel Pedestrian Hand Rail	50,800
Fence, chain-link, vinyl coated	10,500
Erosion Stone	1,200
Revetment	36,000
Steel Sheet Pile for Abutments – 1,200 sf @ \$40/sf	48,000
Mobilization - 10%	163,400
Contingency - 15%	<u>269,700</u>
<b>Bridge Total</b>	<b>\$ 2,067,300</b>

<b>Roadway Items</b>	
Removal of Pavement	\$18,100
Removal of Curb & Gutter	3,050
Removal of Sidewalk	2,200

Clearing & Grubbing	250
Excavation, Class 13 Waste	4,100
Temporary Concrete Barrier	8,100
Intakes	5,600
Concrete Roadway Pipe – 30”	8,550
Apron – 30”	500
Bridge End Drains	35,650
Special Backfill	7,350
Concrete Slope Protection	29,500
Articulated Block Mat, 4”	15,800
Bridge Approach Section	131,200
PCC Curb & Gutter	26,500
PCC Pavement – 8” (includes driveways)	42,250
Recreational Trail, 5” PCC	14,050
PCC Sidewalk – 4”	8,650
Seeding	1,900
Erosion control	50,000
Right of Way (includes closure of entrances)	120,000
Traffic Control @ 5%	26,660
Mobilization @ 5%	26,660
Staging @30%	176,000
M&C @ 30%	176,000
<b>Roadway Total</b>	<b>\$938,600</b>

**Project Total \$ 3,005,900**

B. Staging Details

The proposed bridge would be constructed in two stages:

Stage 1: The first stage requires the removal of the western 14.2’ of the existing bridge deck (cut 9.8’ west of the centerline). Two 12’ lanes of traffic will be maintained on the remaining 31.5’ of the existing bridge as a 27.7’ section, of the new bridge, is constructed.

Stage 2: The second stage requires using the proposed sidewalk to provide a surface for two 11’ traffic lanes along the west side of the bridge. To accommodate the shift of two 11’ lanes, over the new portion of the bridge, removal of the adjacent roadway curb and gutter and sidewalk will be required. Temporary pavement will then be required to accommodate traffic. The temporary pavement will consist of 8” PCC pavement on 12” of special backfill. This pavement will then be removed and the curb and gutter reinstalled at the completion of the project.

Sheet pile will be required to accommodate the proposed staging.

C. Recommendations

It is recommended that the present structure be replaced, as described above.

D. Construction Sequence

It is anticipated that all work on this project will be awarded to one prime contractor. The Office of Bridges and Structures will coordinate the plan preparation with assistance from the Office of Design.

E. ADA Accommodations

There are sidewalks adjacent to IA 461 on all four quadrants of the existing bridge which will be impacted therefore, ADA accommodations are planned in conjunction with this project. There will be an 11.4’ on the west side and a 5’ on the east side sidewalk on the IA 461 bridge which will require transitions to the existing sidewalk system. The sidewalk on the west side is 6.4’ wider than necessary in order to maintain two lanes of traffic for the construction staging of this project.

A TL-2 barrier rail (TxDOT T411) will be used between vehicular traffic and the sidewalk. This barrier rail is ADA compliant and meets the requirements for a 40 mph design speed.

F. Special Considerations

As right of way will be required for this project, a phase I archaeological survey will be required.

Conduits for private utility companies, attached to the side of the bridge, are to be relocated prior to construction.

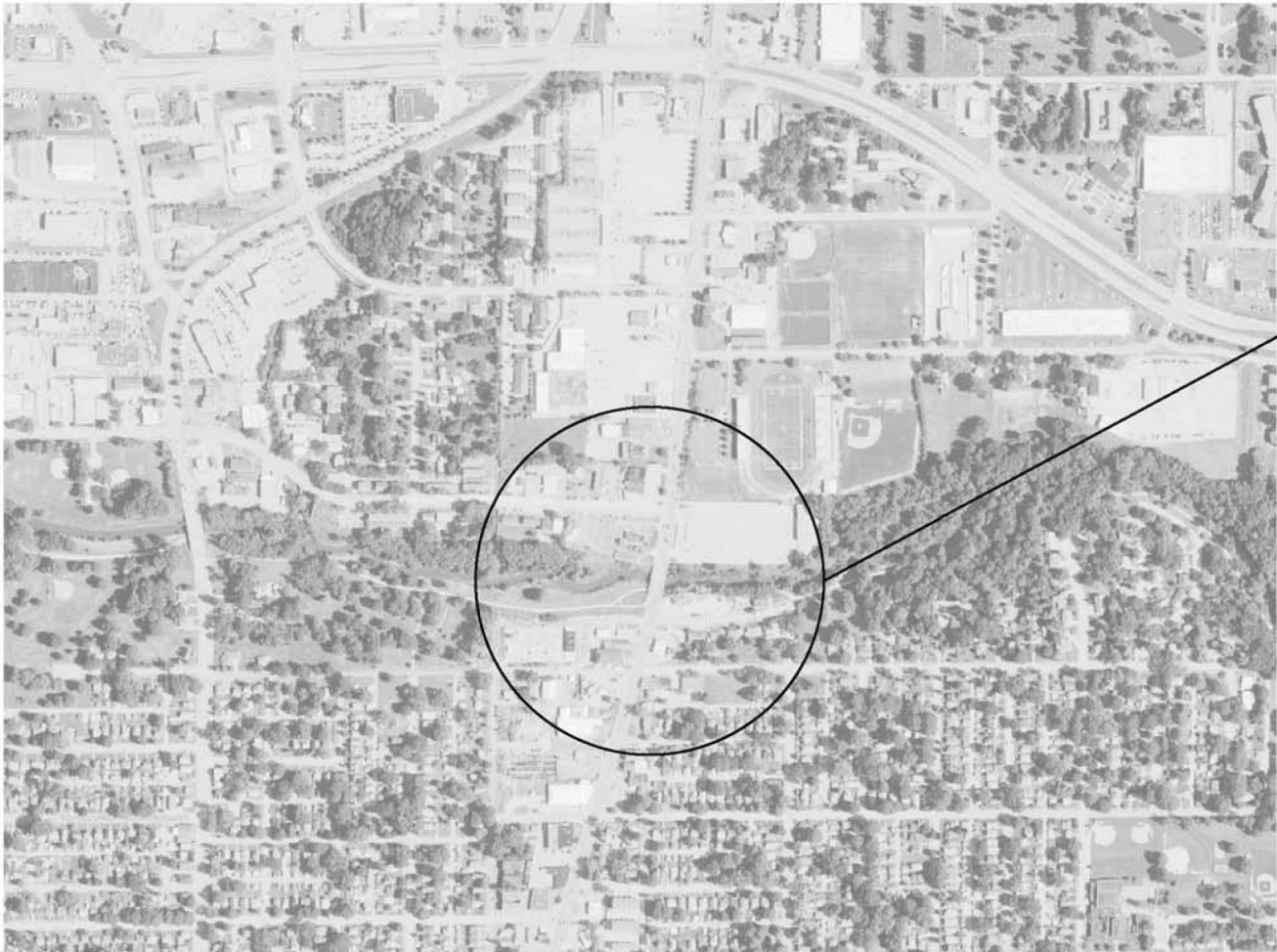
The Office of Location and Environment has performed an office review of the project area and has determined that a Section 404 Permit will be required.

F. Program Status

Site data has been developed by the Office of Design. This project is listed in the 2018-2022 Iowa Transportation Improvement Program, with \$2,400,000 programmed for replacement in FY 2021. Costs for this project will be eligible for bridge replacement funds. A schedule of events will be developed following approval of the Project Concept.

KKP: skg

# SCOTT COUNTY



STA 158+45.00  
FHWA 46490  
MAINT. 8220.1R061  
DESIGN 651

DUCK CREEK 0.4 MILES SOUTH  
OF US 6 IN DAVENPORT (NORTHBOUND)  
BRF-461-1(9)-38-82  
PIN: 16-82-461-010

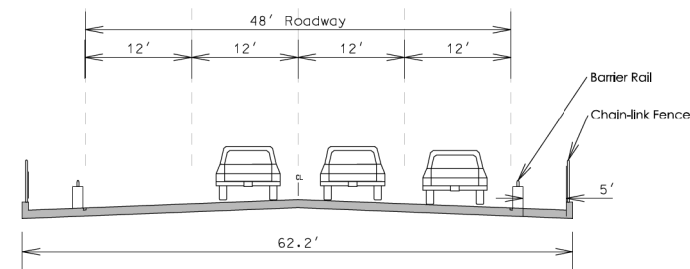
WINFIELD TWP.  
T-78N R-3E  
SECTION 13



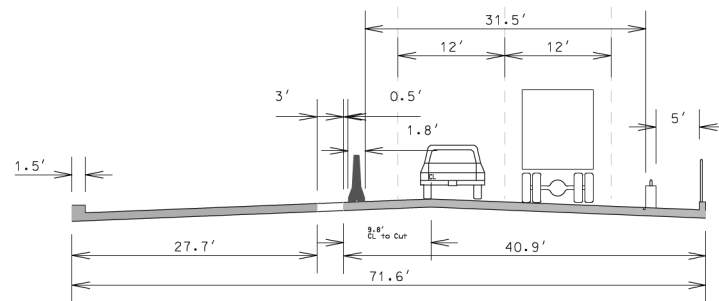
Cross Sections for Scott County Project BRF-461-1(9)--38-82  
Over Duck Creek 0.4 miles South of U.S. 6 in Davenport (NB)

Maintaining two lanes of traffic

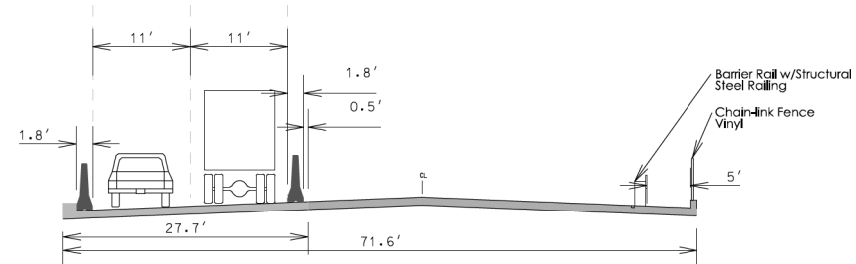
Existing Typical Section



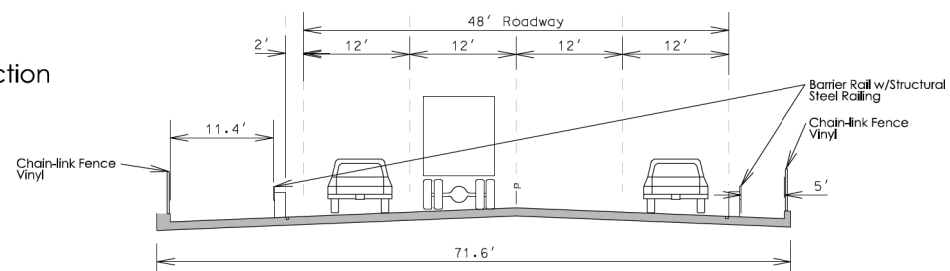
Stage 1



Stage 2



Finished Section

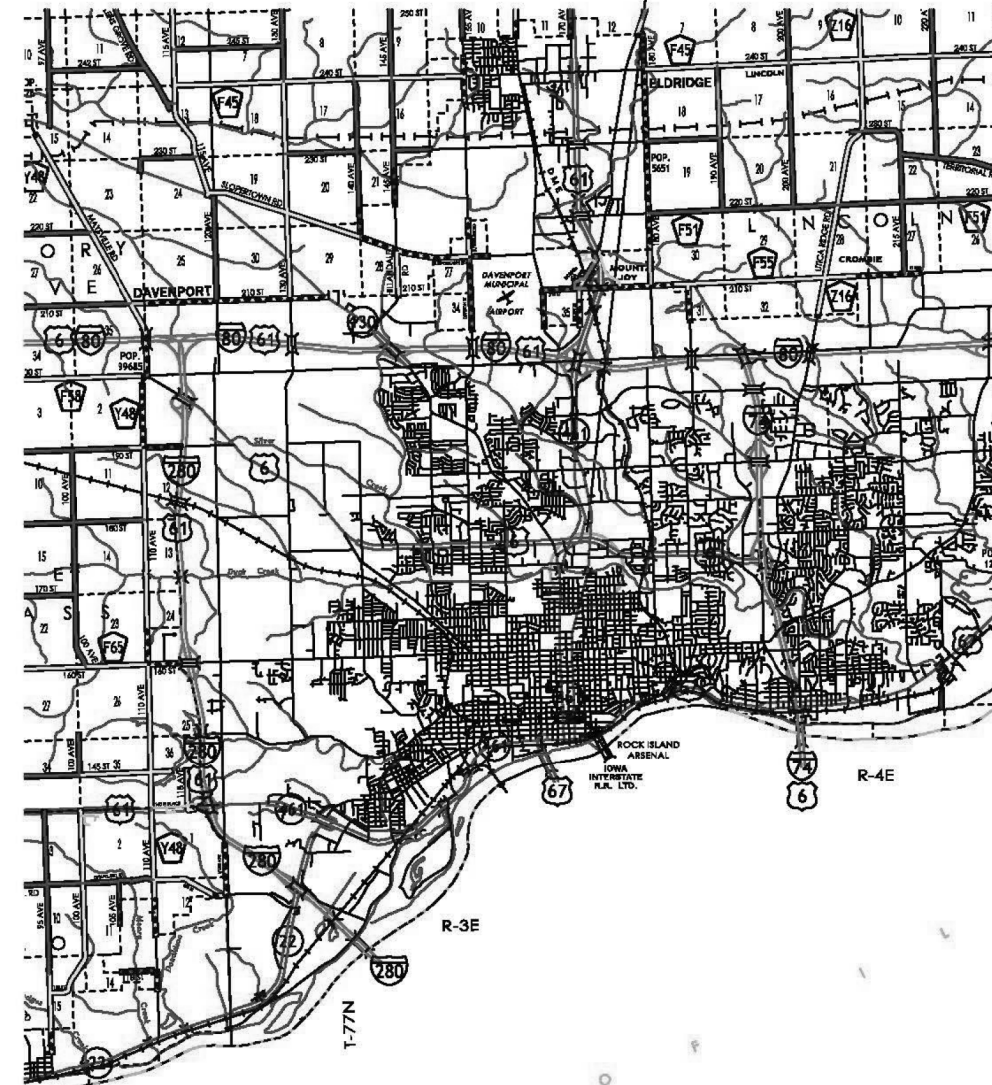


Legend

- Under Construction
- Driving Surface

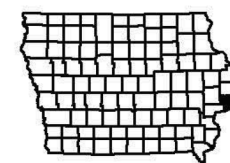
# SCOTT COUNTY

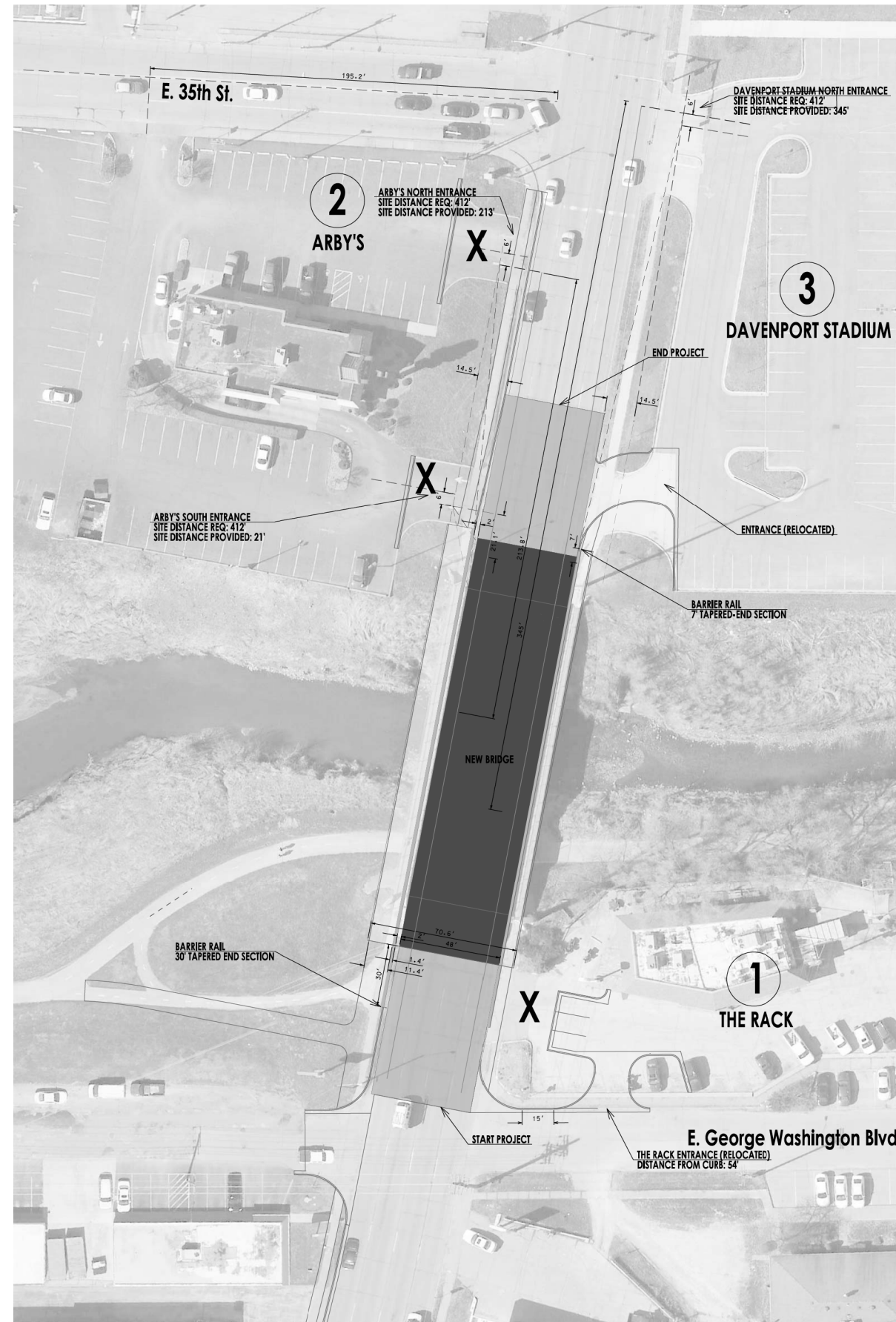
STA 158+45.00  
FHWA 46490  
MAINT. 8220.1R061  
DESIGN 651

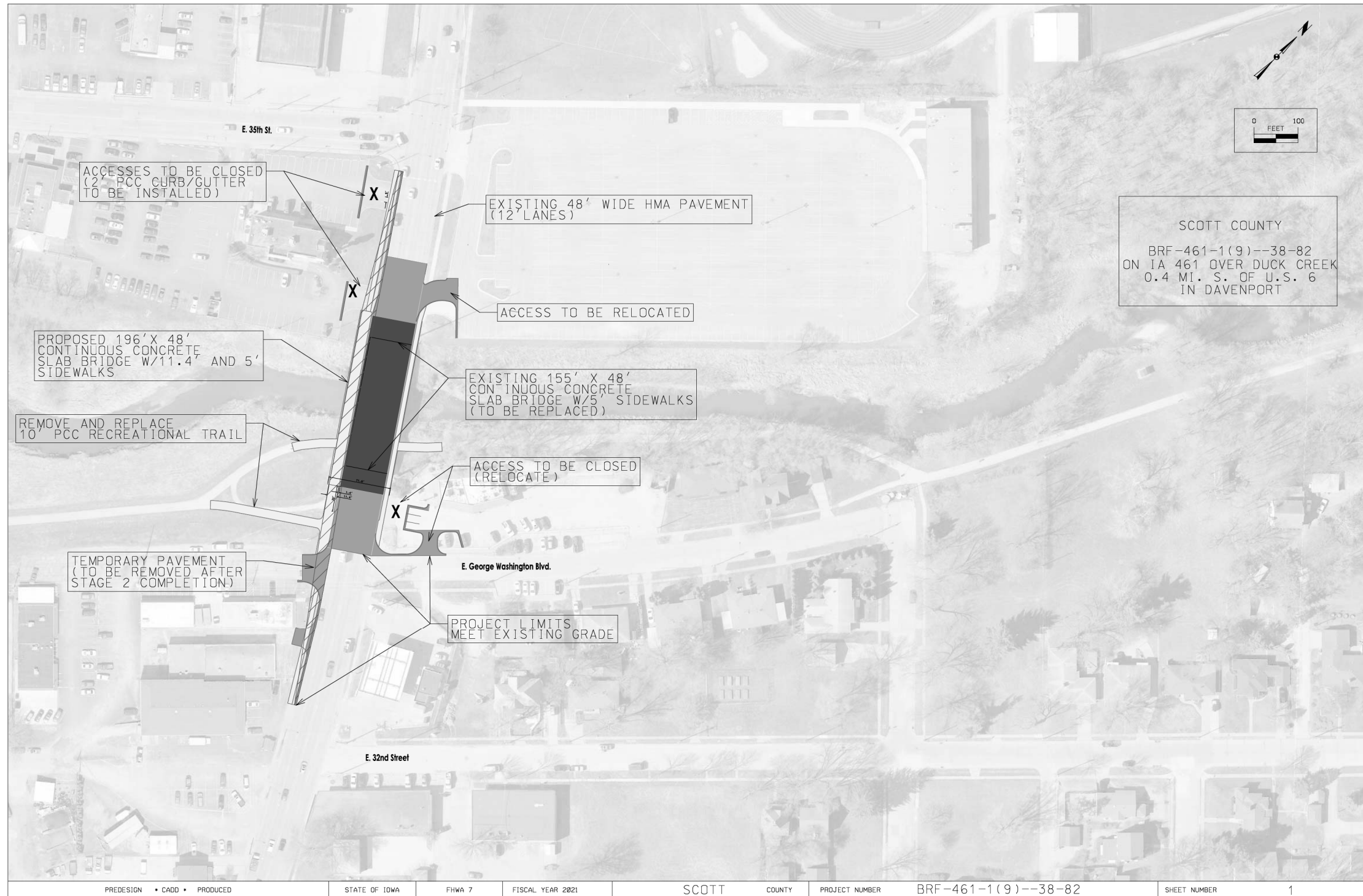


DUCK CREEK 0.4 MILES SOUTH  
OF US 6 IN DAVENPORT (NORTHBOUND)

BRF-461-1(9)--38-82  
PIN: 16-82-461-010







SCOTT COUNTY  
 BRF-461-1(9)--38-82  
 ON IA 461 OVER DUCK CREEK  
 0.4 MI. S. OF U.S. 6  
 IN DAVENPORT

PREDESIGN	CADD	PRODUCED	STATE OF IOWA	FHWA 7	FISCAL YEAR 2021	SCOTT COUNTY	PROJECT NUMBER	BRF-461-1(9)--38-82	SHEET NUMBER	1
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<b>Roadway</b>			
<b>PIN Number</b>	16-82-461-010	<b>Submittal Date</b>	
<b>Project Number</b>	BRF-461-1(9)--38-82	<b>Approval Date</b>	
<b>District</b>	District 6	<b>Assistant District Engineer</b>	Ken Yanna
<b>County</b>	SCOTT	<b>or</b>	
<b>Route</b>	IA 461	<b>Office Director</b>	
<b>Location</b>	Davenport		
<b>Work Type</b>	Bridge Replacement Concept		
<b>Segment Manager</b>	Kevin Patel		
<b>Designer</b>	Seana Godbold		

Design Manual Section 1C-1  
Last Updated: 05-26-17

### Urban Multilane Roadways (Urban Arterials)

Design Element	Preferred	Acceptable Criteria	Project Values
Design speed (mph)	The anticipated posted speed limit	30	40
Maximum superelevation rate (Refer to Section 2A-2)	4%	8%	NA
Design lane width (ft)	12	11	12
Full depth paved width (ft)	Outside lane Design lane width + curb and gutter unit or 14 feet for roadways with shoulders, 12' if using full depth shoulders	Match design lane width	12
	Inside lane(s) Design lane width + curb and gutter unit. 12' for roadways without a curb and gutter unit	Match design lane width	12
Right turn lane or an auxiliary lane (ft)	12	10	NA
Left turn lane (ft)	With raised or painted median 12 ft + median	10 ft + median	NA
	With depressed median	10	NA
Two-way left turn lane (ft)	14	11	NA
Parking lane width (ft)	10	7	NA
Pavement cross-slope (on tangent sections)	Through lanes 2%, However, when adjacent lanes slope in the same direction, increase slope by 0.5% per lane up to 3%	1.5% minimum, 3% maximum	2.5%/3%
	Auxiliary and turn lanes	3% maximum	NA
	Crown break at centerline	4% maximum	4%
Shoulder cross-slope (on tangent sections)	Shoulders	4%	Shoulder cross-slope cannot be less than the adjacent lane, 6% max for paved or granular shoulders, 8% max for earth shoulders
	Curb and gutter units	Match pavement cross-slope	6% maximum
	Parking lanes	1% greater than pavement cross-slope	6% maximum
Curb type (Refer to Section 3C-2)	Design speed ≤ 45 mph	6-inch standard	any shape
Foreslope (For fill areas greater than 40 ft, contact the Soils Design Section for assistance)	Adjacent to shoulder	10:1 for 4' then 6:1	3:1
	Beyond standard ditch depth and design clear zone	3.5:1	3:1
	Curbed roadways	2%	not steeper than 3:1
Backslope (For cut areas greater than 25 feet, contact the Soils Design Section for assistance with backslope benches.)	3:1	2.5:1	NA
Transverse Slopes	w/ drainage structures	8:1	6:1
	w/o drainage structures	10:1	6:1
Ditches (Refer to Section 3G-1)	Outside ditch (depth x width) (ft)	5 x 10	--
Median width (ft) (Refer to Section 3E-1)	See Section 3E-1	0	NA
Bridge width—new*	Bridge length ≤ 200 ft design lane widths + effective shoulder widths or design lane width + 3 ft each side in curb and gutter section	design lane widths + effective shoulder widths or curb-to-curb width in curb and gutter section**	48'
	Bridge length > 200 ft design lane widths + effective shoulder widths or design lane width + 3 ft each side in curb and gutter section	design lane widths + 4 ft offset each side for roadways with shoulders or curb-to-curb width in curb and gutter section**	NA
Bridge width—existing*	design lane widths + no less than 2 ft left and right	design lane widths + 2 ft left and right of the design widths	48'
Vertical clearance (ft) (above lanes, shoulders and 25 feet left and right of the center of railroad tracks)	Over primary	16.5	16
	Over non-primary	16.5 at interchange locations, 15 at all other locations	14
	Over railroad	23.3	23.3
	Sign truss and pedestrian crossings	17.5	17
Structural Capacity	Contact Office of Bridges and Structures	Contact Office of Bridges and Structures	
Level of Service	C	D	

\*FHWA notification via email is required if acceptable criteria is not met on the NHS system (No formal design exception required)  
\*\* If travel lanes are less than 12 ft wide contact the Methods Section for assistance.



**Roadway Design Speed (mph) =**

Design Manual Section 1C-1  
Last Updated: 05-26-17

**Design Criteria for Low Speed Roadways**

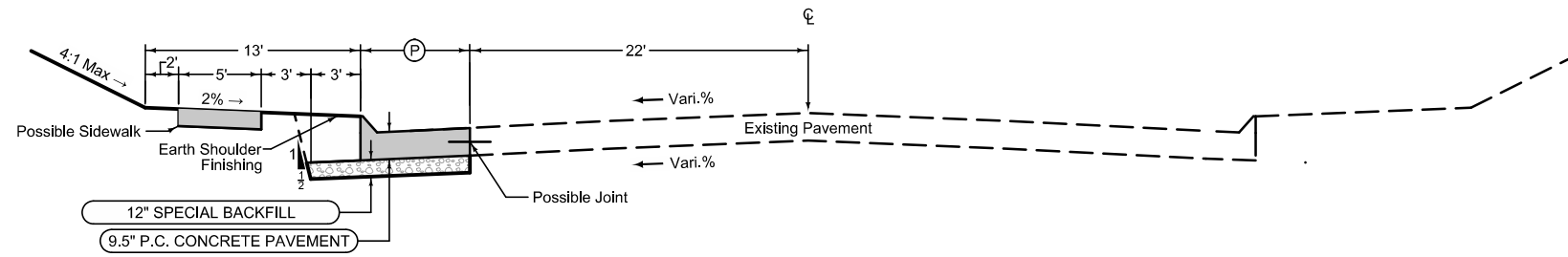
Design Element	Preferred Criteria					Acceptable Criteria					Project Values						
	Design Speed, mph					Design Speed, mph											
	25	30	35	40	45	25	30	35	40	45							
Stopping sight distance (ft) (Refer to Section 6D-1)	155	200	250	305	360	155	200	250	305	360	>305						
Minimum horizontal curve radius (ft) and superelevation rate (Refer to Sections 2A-2 and 2A-3)	Method 2 superelevation and side friction distribution	e = 4% max					See Table 10 in Section 2A-3					NA					
	Method 5 superelevation and side friction distribution	e <sub>max</sub> = 6%					144	231	340	485	643	144	231	340	485	643	NA
		e <sub>max</sub> = 8%					--	--	--	--	--	134	214	314	444	587	NA
Minimum vertical curve length (ft) (Refer to Section 2B-1)	75	90	105	120	135	75	90	105	120	135	400'						
Minimum rate of vertical curvature (K) (Refer to Section 2B-1)	crest vertical curves		12	19	29	44	61	12	19	29	44	61					
	sag vertical curves	roadways without fixed-source lighting	26	37	49	64	79	26	37	49	64	79	NA				
		roadways with fixed-source lighting	26	37	49	64	79	14	20	27	35	44	NA				
Minimum gradient (%) (Refer to Section 2B-1)	0.5					0.3% with a curb, 0.0% without a curb					0.75%						
Maximum gradient (%) (Refer to Section 2B-1)	Urban roadways		5					--	9	8	8	7	0.75%				
	Rural roadways							--	--	--	6	6					
Clear zone	See "Preferred Clear Zone" table in Section 8A-2					See "Acceptable Clear Zone" table in Section 8A-2					16'						

### 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:C at 20' spacing

STATION TO STATION		(P) Feet	Curb Type See PV-102
2001+54.50	2003+20.94	2.5	6" Std.
2006+59.94	2007+79.61	2.5	6" Std.



See Tab 100-24 or 100-25 for pavement quantities.  
 See Tab 112-9 for shoulder quantities.

**U.S. 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:C at 20' spacing

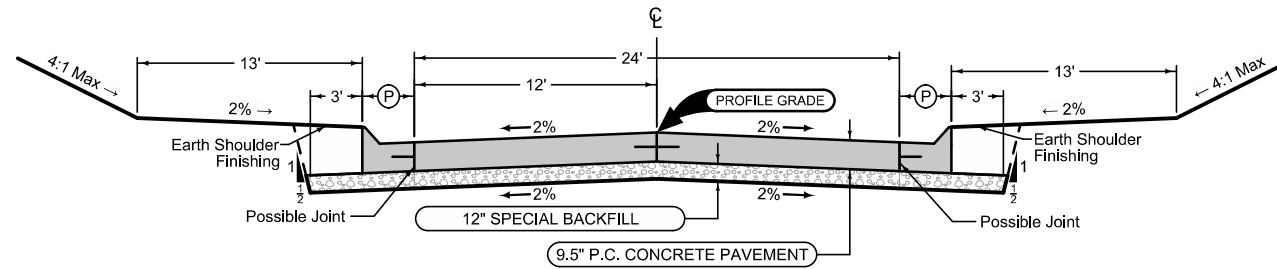
STATION TO STATION		(P) Feet	Curb Type See PV-102
4000+96.45	4001+25.63	3.5	6" Std.

**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:C at 20' spacing

STATION TO STATION		(P) Feet	Curb Type See PV-102
4000+96.45	4001+25.63	3.5	6" Std.



Mainline Jointing:  
 Transverse joints: CD at 20' spacing  
 Longitudinal joint: L-2

STATION TO STATION	
4000+96.45	4001+25.63

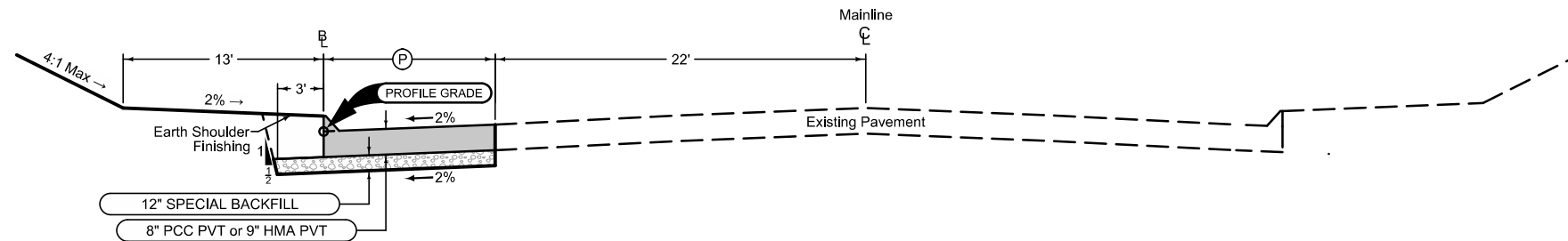
**E. GEORGE WASHINGTON BLVD.**

**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 at 20' spacing

STATION TO STATION		(P) Feet	Curb Type See PV-102
10015+22.44	10017+57.07	2.5'-15.7'	6" Std.
10019+56.06	10021+44.42	15.7'-7.7'	6" Std.

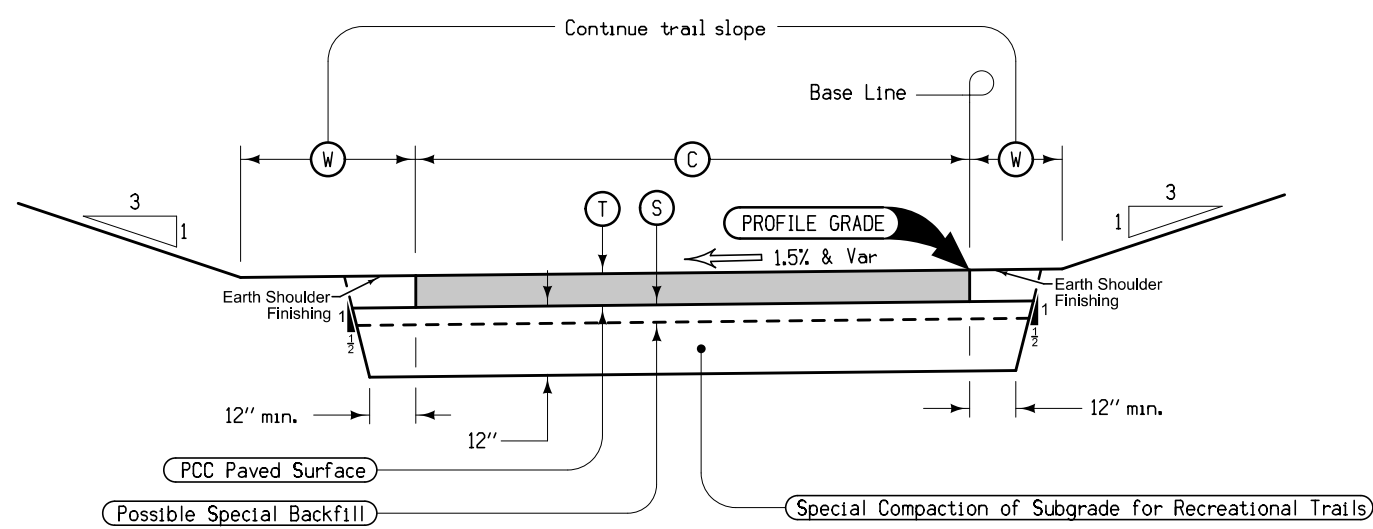


See Tab 100-24 or 100-25 for pavement quantities.  
 See Tab 112-9 for shoulder quantities.

**E. GEORGE WASHINGTON BLVD. & DETOUR**



7402 A  
MODIFIED



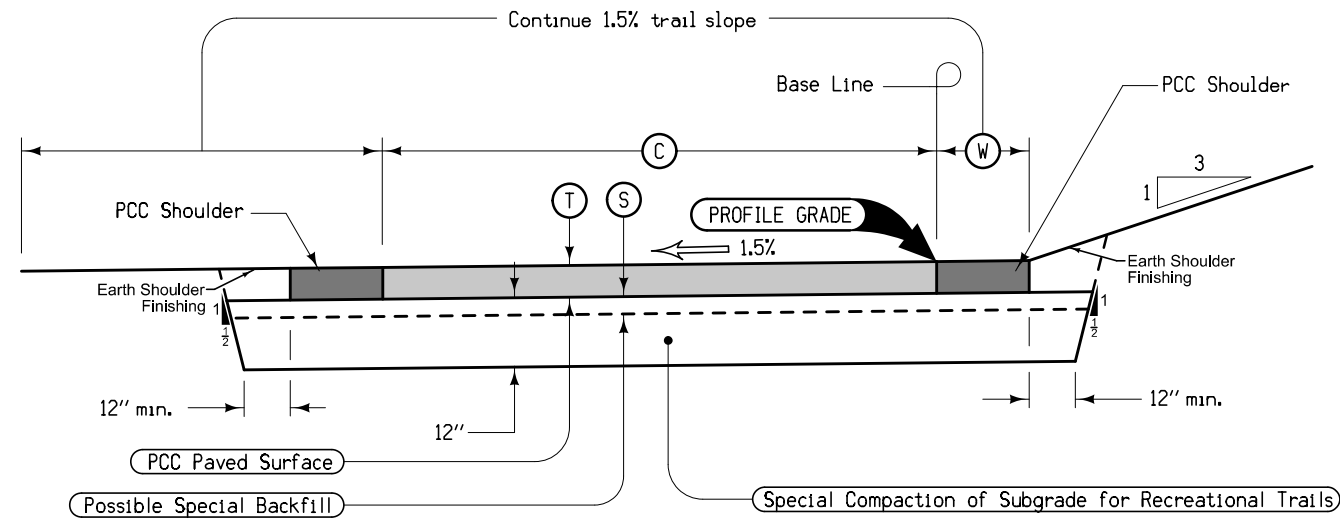
PAVEMENT THICKNESS		
Pavement Type	Trail Width	(T)
PCC	10'	5"

Notes:  
Bid Item is "Recreational Trail".

STATION TO STATION		PAVEMENT TYPE	(C)	(S)	(W)	TURF SHLDR
			Feet	Inches	Left	Right
9000+57.83	9002+25.00	PCC	10	-	6'	3'

TYPICAL CROSS SECTION  
RECREATIONAL TRAIL - BP1

7402 B  
MODIFIED

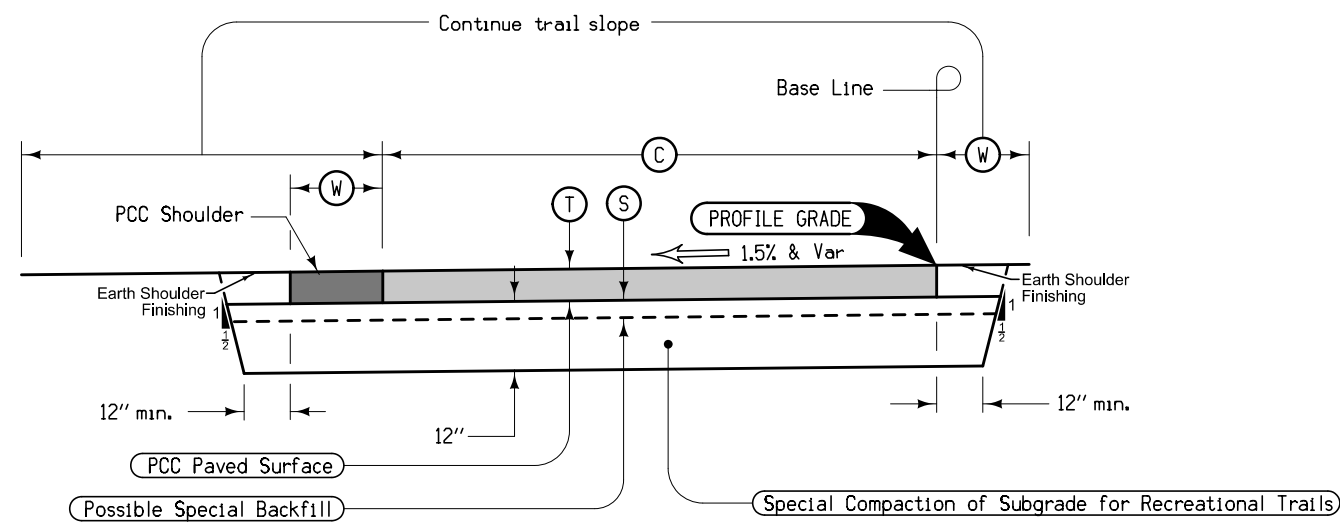


PAVEMENT THICKNESS		
Pavement Type	Trail Width	(T)
PCC	10'	5"

STATION TO STATION		PAVEMENT TYPE	(C)	(S)	(W)	PCC SHLDR
			Feet	Inches	Left	Right
9002+25.00	9003+49.00	PCC	10	-	3'	3'

TYPICAL CROSS SECTION  
RECREATIONAL TRAIL - BP1

7402 C  
MODIFIED

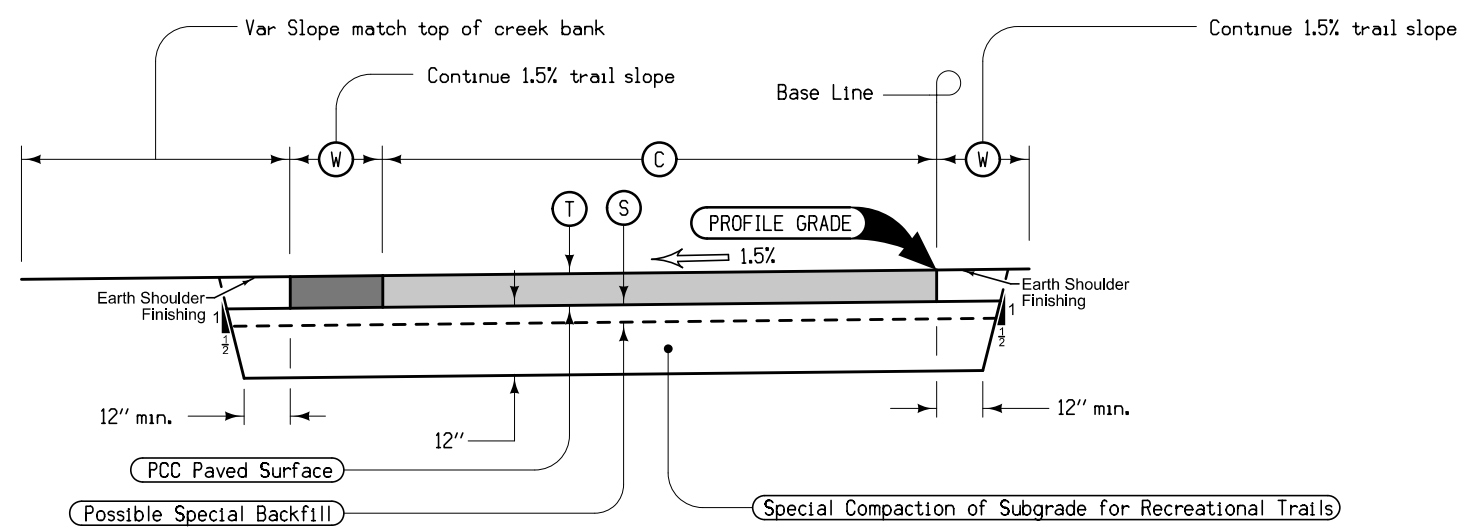


PAVEMENT THICKNESS		
Pavement Type	Trail Width	(T)
PCC	10'	5"

STATION TO STATION		PAVEMENT TYPE	(C)	(S)	(W)	SHLDR
			Feet	Inches	Left	Right
9003+49.00	9003+55.00	PCC	10	-	3'	Var
9004+15.00	9004+20.00	PCC	10	-	3'	Var

TYPICAL CROSS SECTION  
RECREATIONAL TRAIL - BP1

7402 D  
MODIFIED

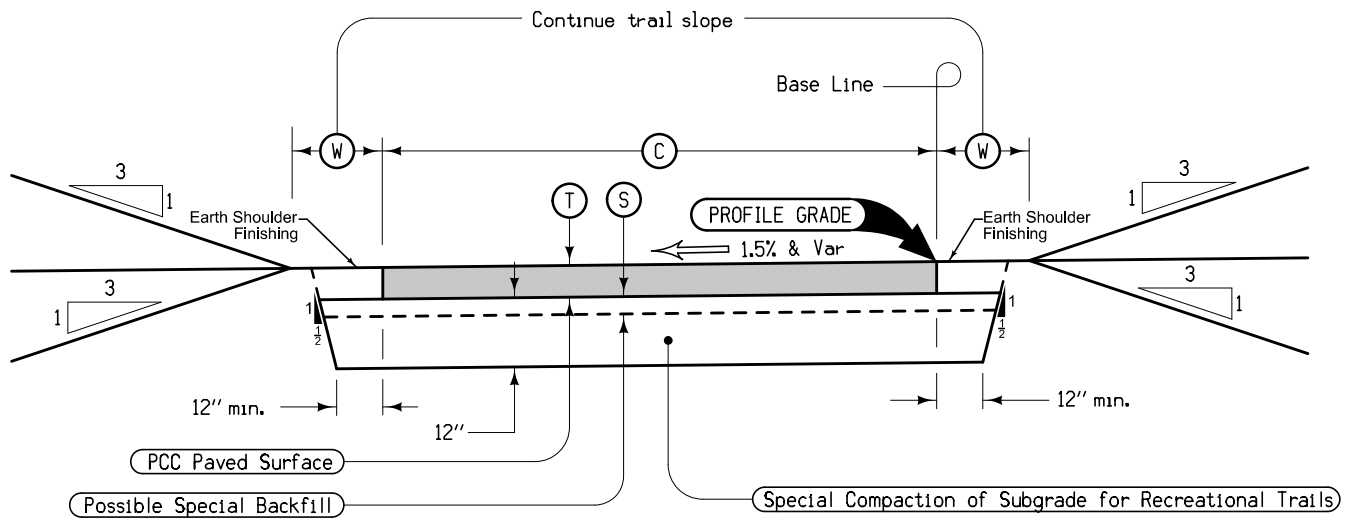


PAVEMENT THICKNESS		
Pavement Type	Trail Width (C)	(T)
PCC	10'	5"

STATION TO STATION		PAVEMENT TYPE	(C) Feet	(S) Inches	(W) Left	SHLDR Right
9003+55.00	9004+15.00	PCC	10	-	3'	Var

TYPICAL CROSS SECTION  
RECREATIONAL TRAIL - BP1

7402 E  
MODIFIED



PAVEMENT THICKNESS		
Pavement Type	Trail Width (C)	(T)
PCC	10'	5"

STATION TO STATION		PAVEMENT TYPE	(C) Feet	(S) Inches	(W) TURF Left	SHLDR Right
9010+57.92	9012+21.13	PCC	10	-	3'	3'

Notes:  
Bid item is "Recreational Trail".

TYPICAL CROSS SECTION  
RECREATIONAL TRAIL - BP2

### SURVEY SYMBOLS

- CP Control Point
- ◻ FENO FENO Monument
- ▲ BM Bench Mark
- TPD Telephone Pedestal
- FO1D Fiber Optic Co. 1 - Quality D
- GL1D Gas Line Co. 1 - Quality D
- GV Gas Valve
- FHD Fire Hydrants
- WV Water Valve
- WL1D Water Line Co. 1 - Quality D
- MH Utility Access (Manhole)
- UE Utility Elevation
- ST1D Storm Sewer Co. 1 - Quality D
- IN Storm Sewer Intake
- TV1D TV Cable Co. 1 - Quality D
- 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
- 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
- SHR Shrub
- TDC Tree Deciduous
- SIGN SI Sign
- PPA Power Pole Co. 1
- LUM Luminaire
- TSL Traffic Signal and Luminaire
- TSG Traffic Signal
- PR Electric Riser Pole
- MIS Miscellaneous
- BLD Building or Foundation
- GDL Guard Rail Steel
- FCL Chain Link and Security Fence
- 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

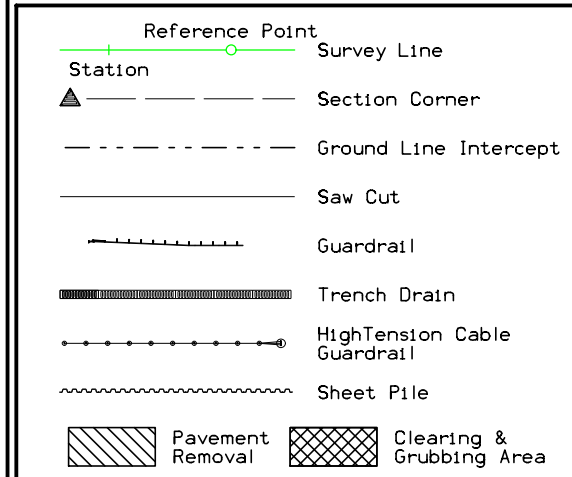
### UTILITY LEGEND

### PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	Description
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.	Description	
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.	Description
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

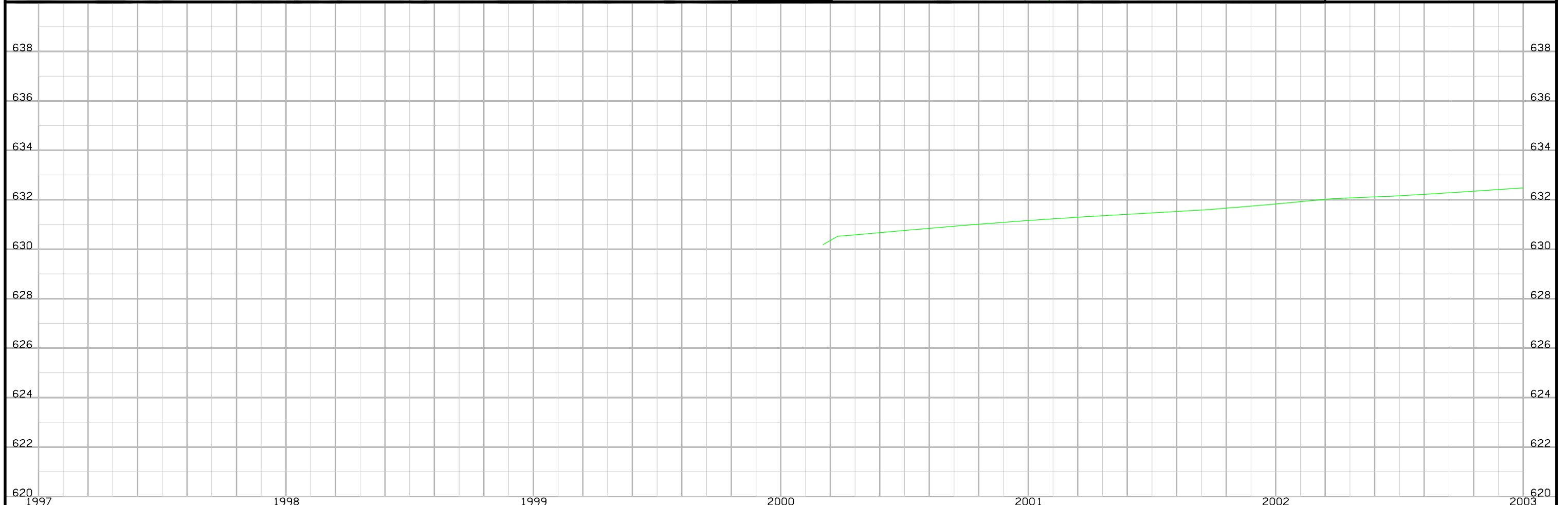
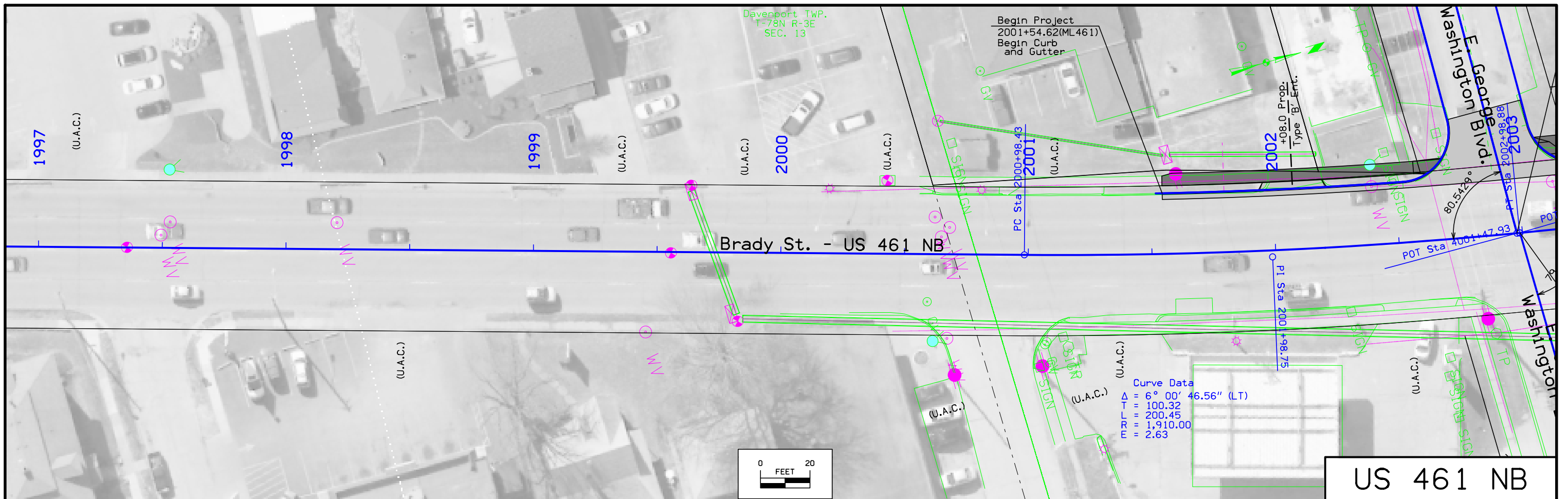


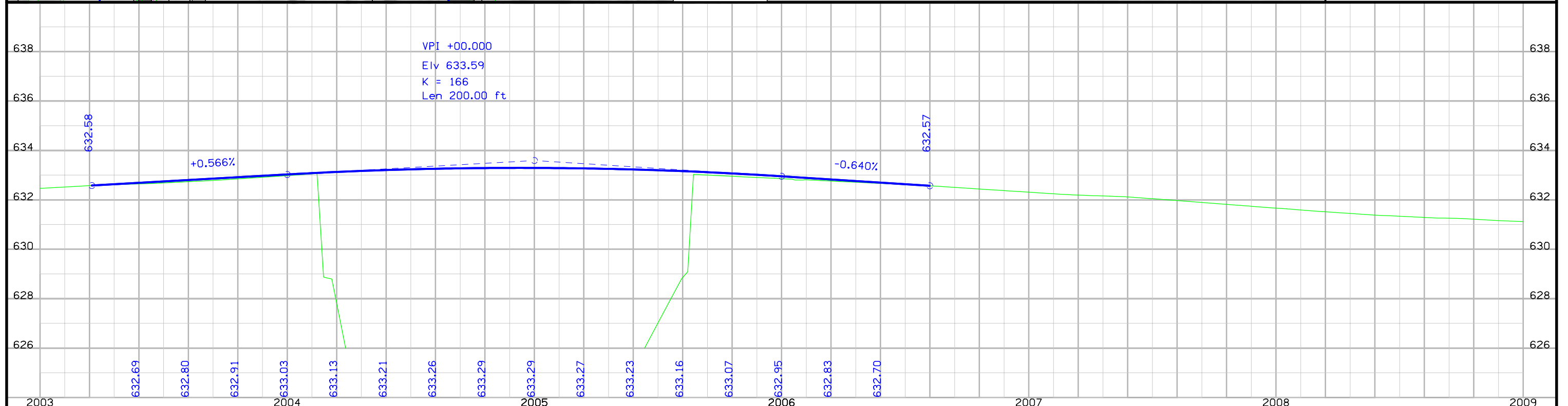
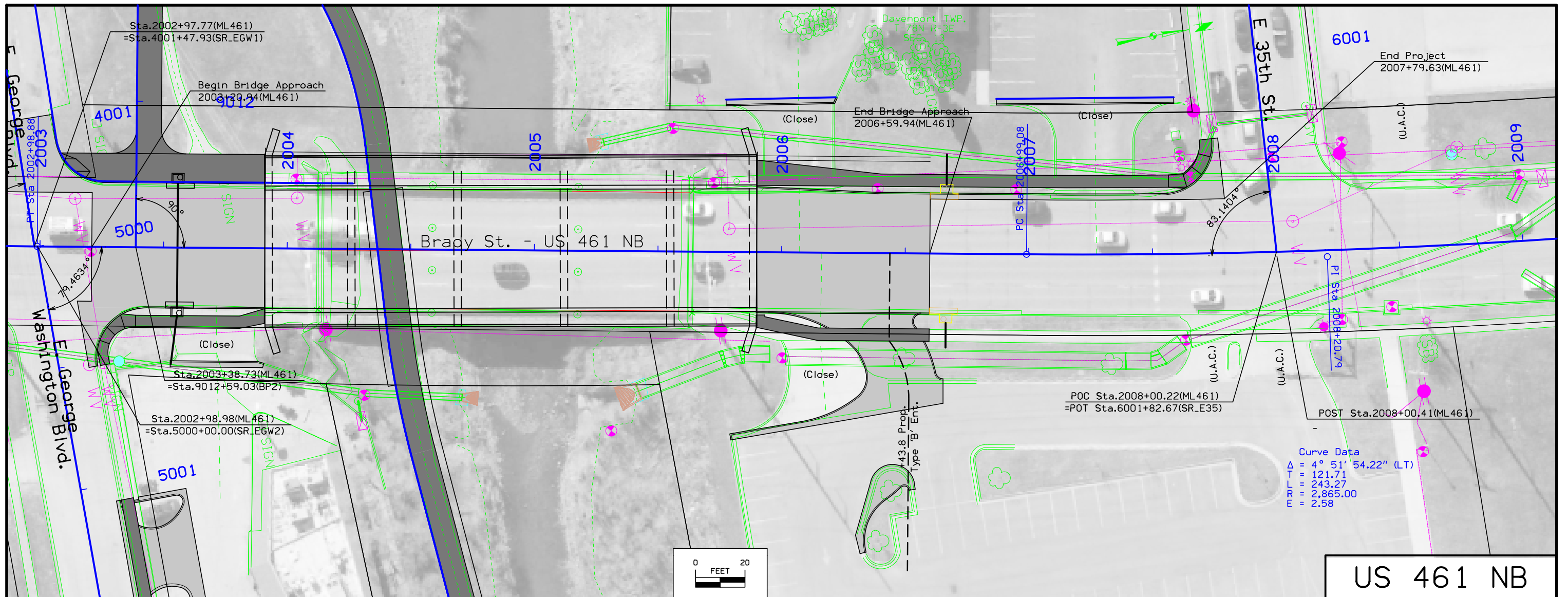
### RIGHT-OF-WAY LEGEND

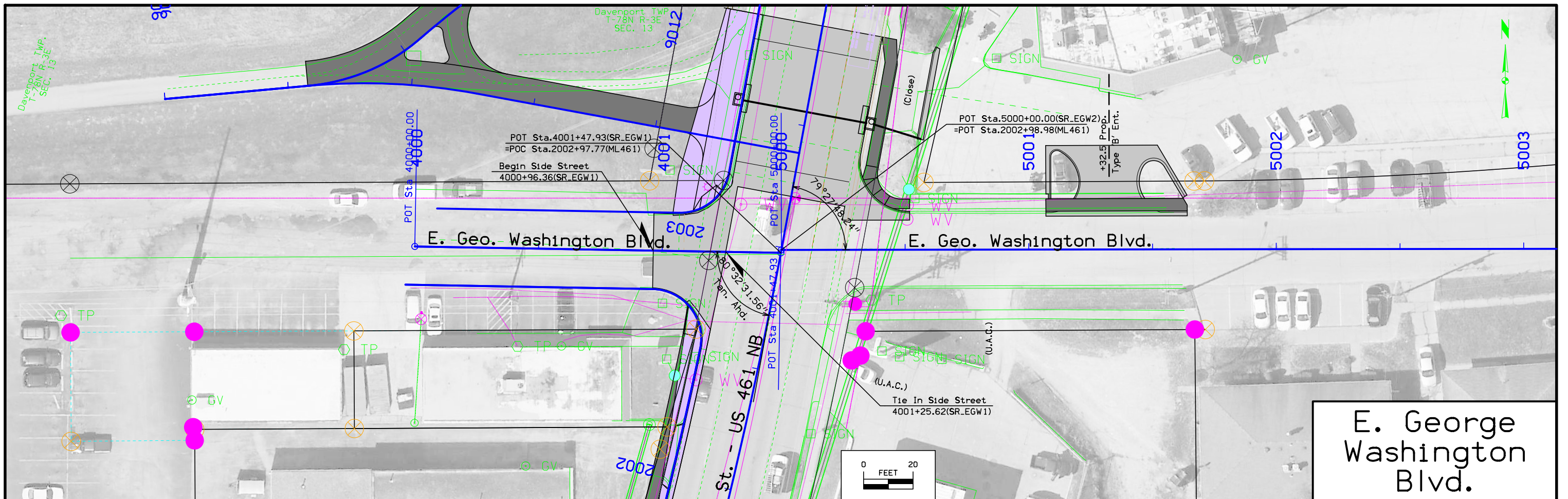
- ▲ Proposed Right-of-Way
- △ Existing Right of Way
- ▲ Existing and Proposed Right-of-Way
- ▲ Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- C/A Access Control
- Property Line

## PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

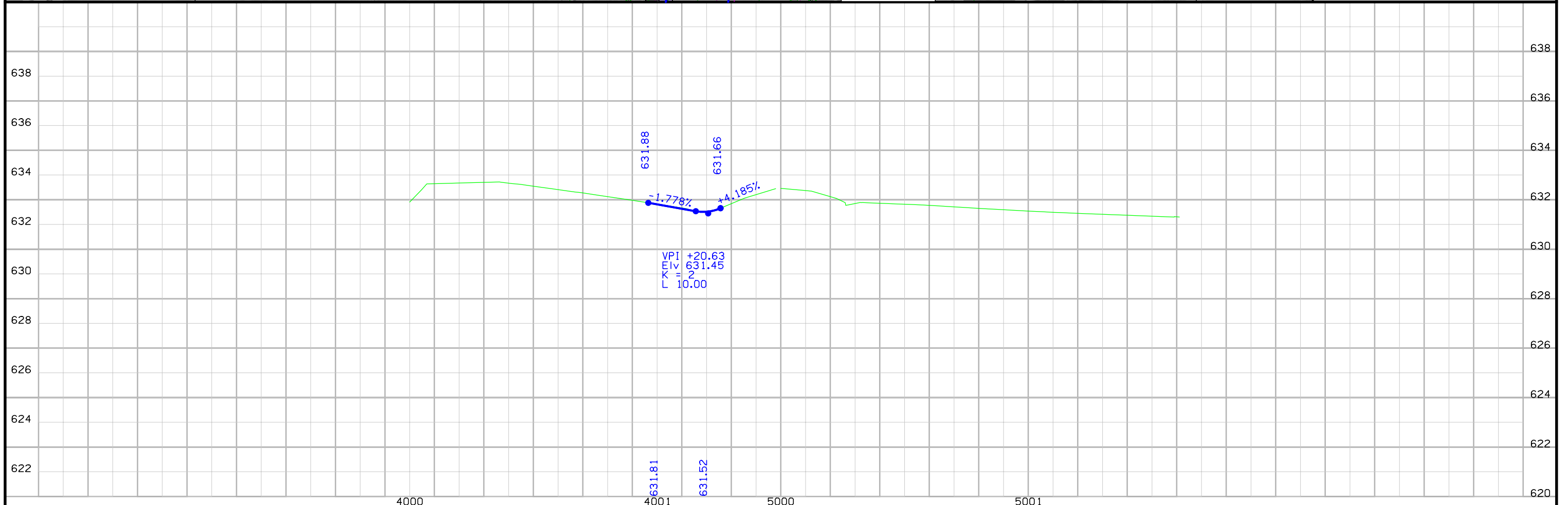
(COVERS SHEET SERIES D, E, F, & K)

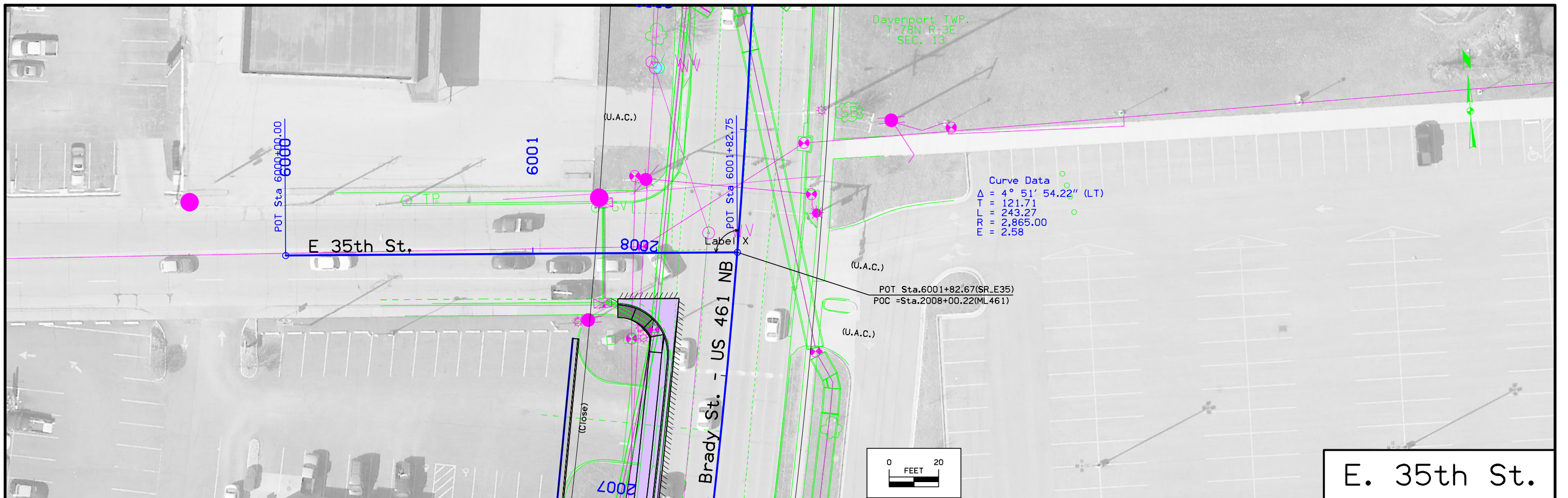




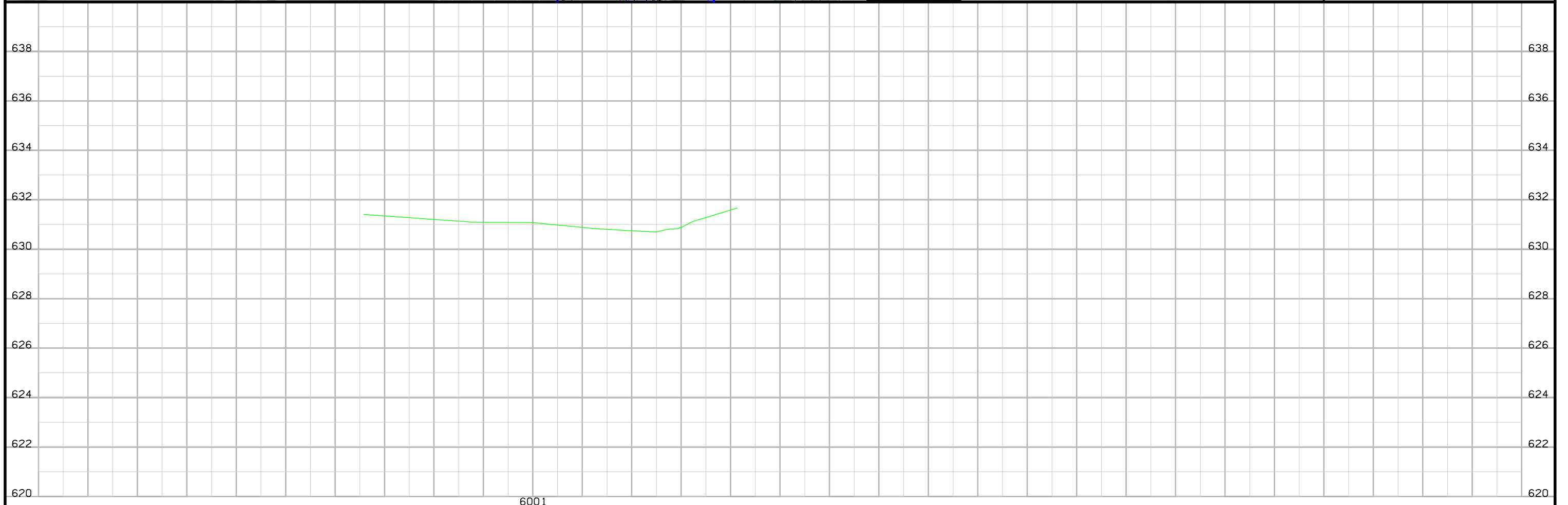


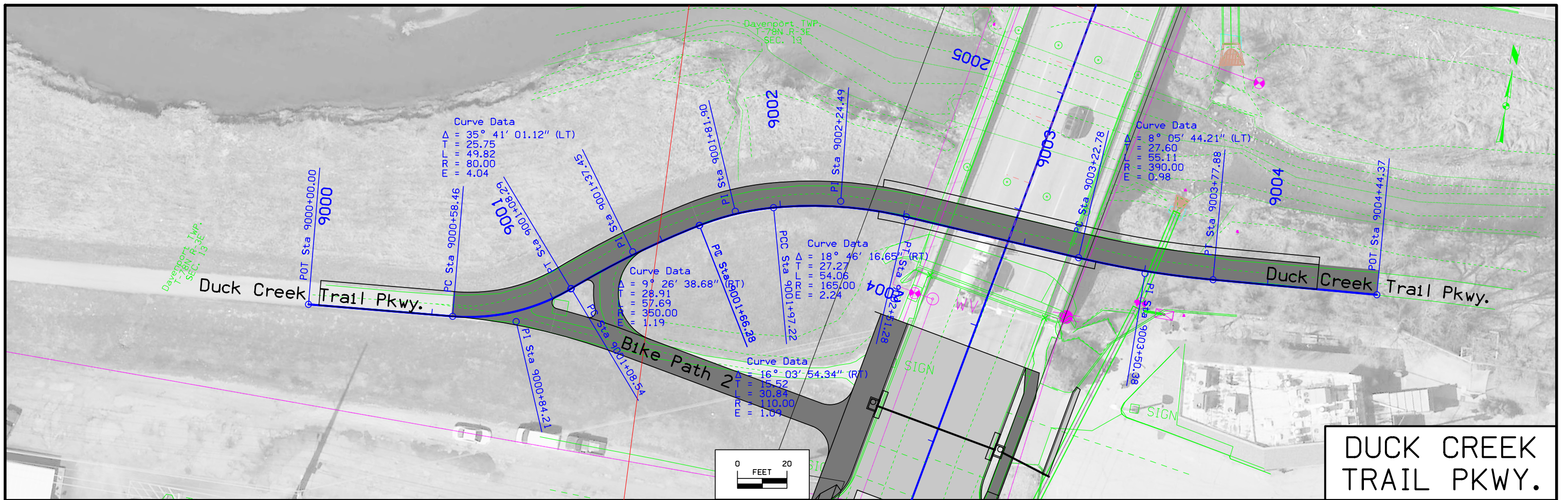
E. George Washington Blvd.



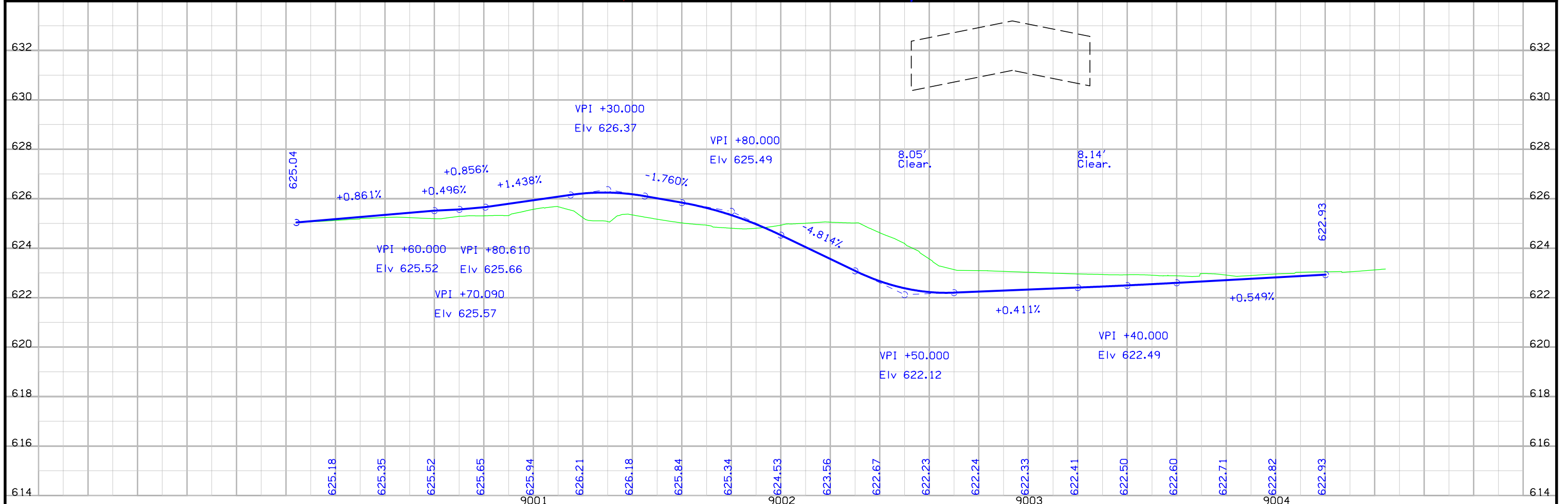


E. 35th St.

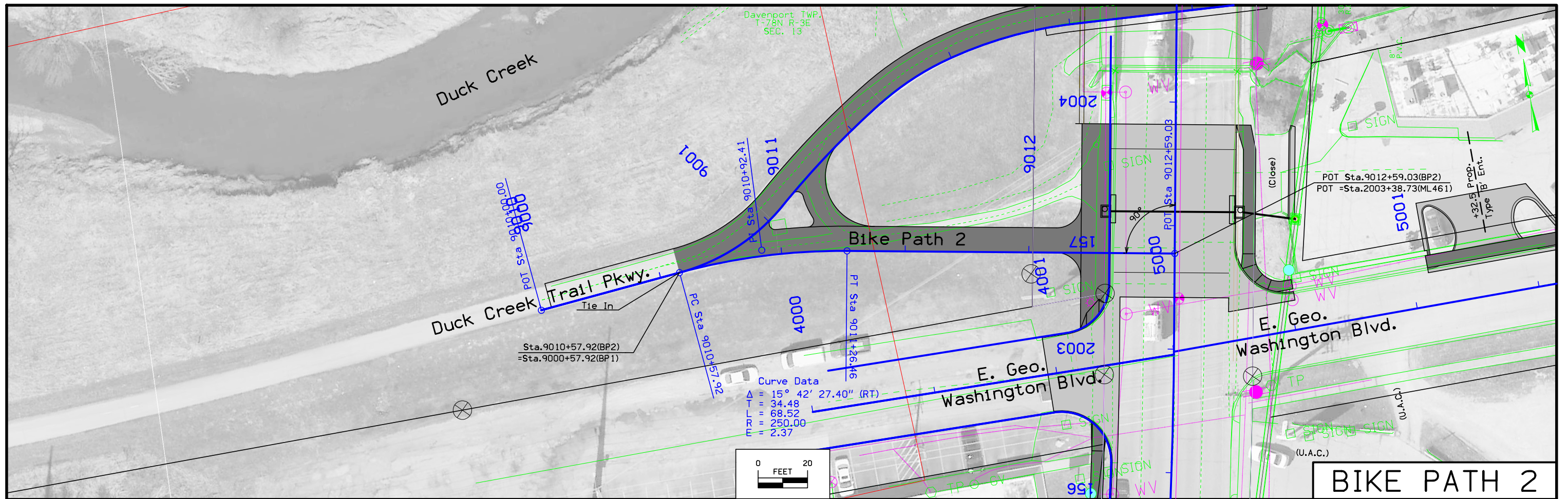




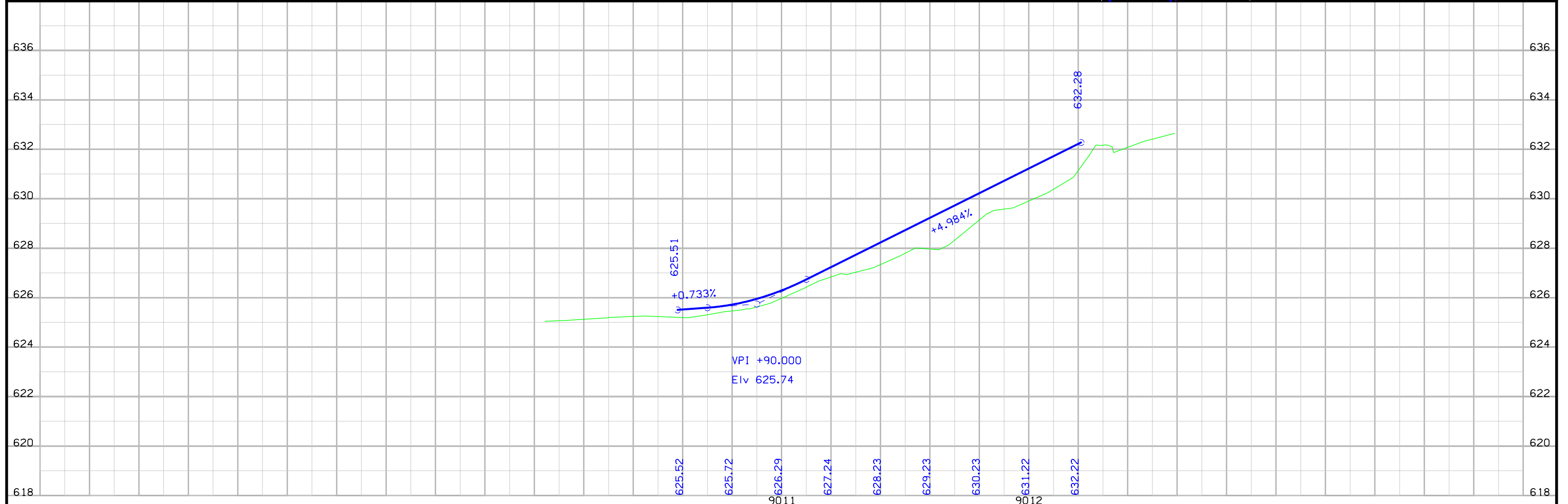
**DUCK CREEK TRAIL PKWY.**

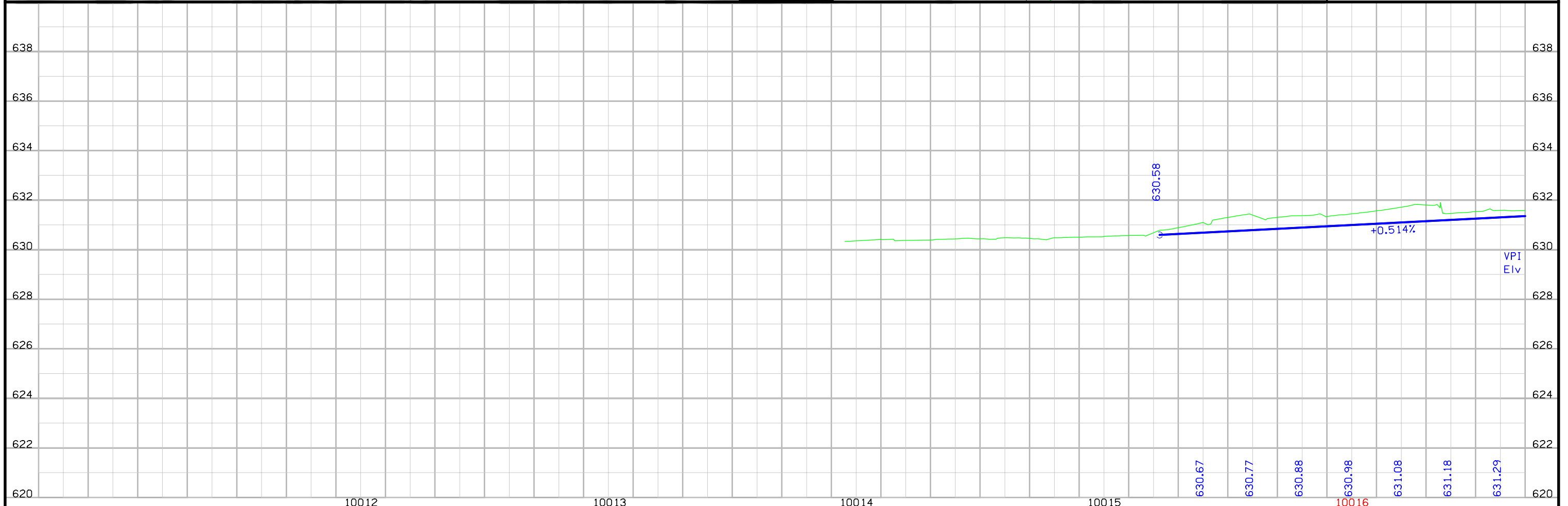
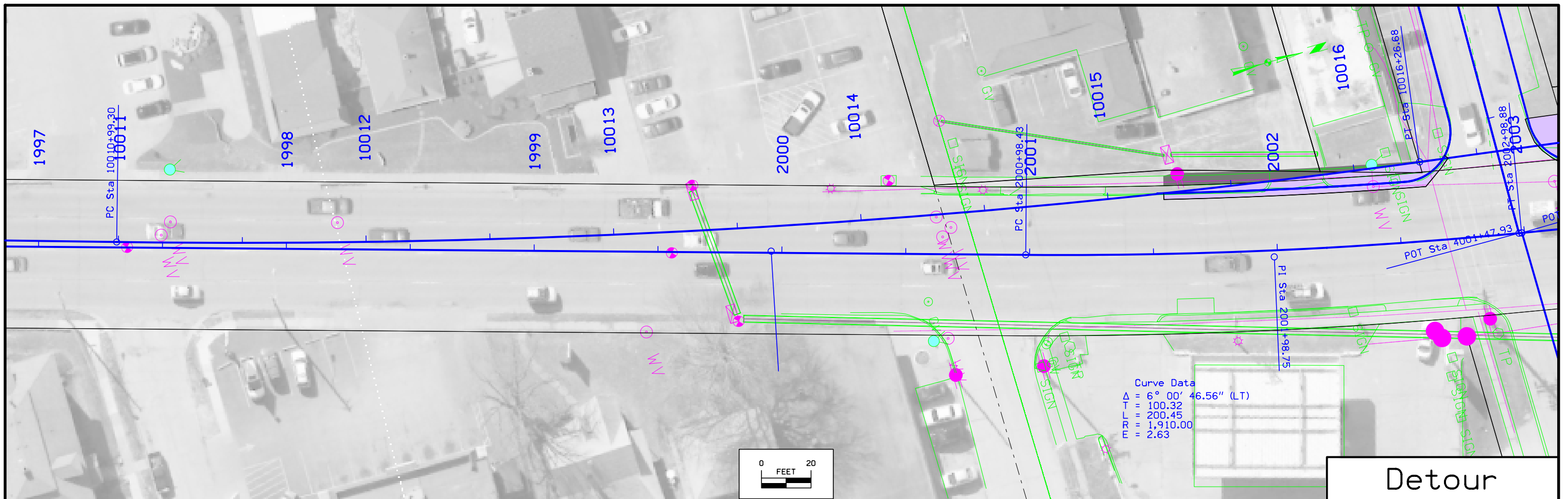


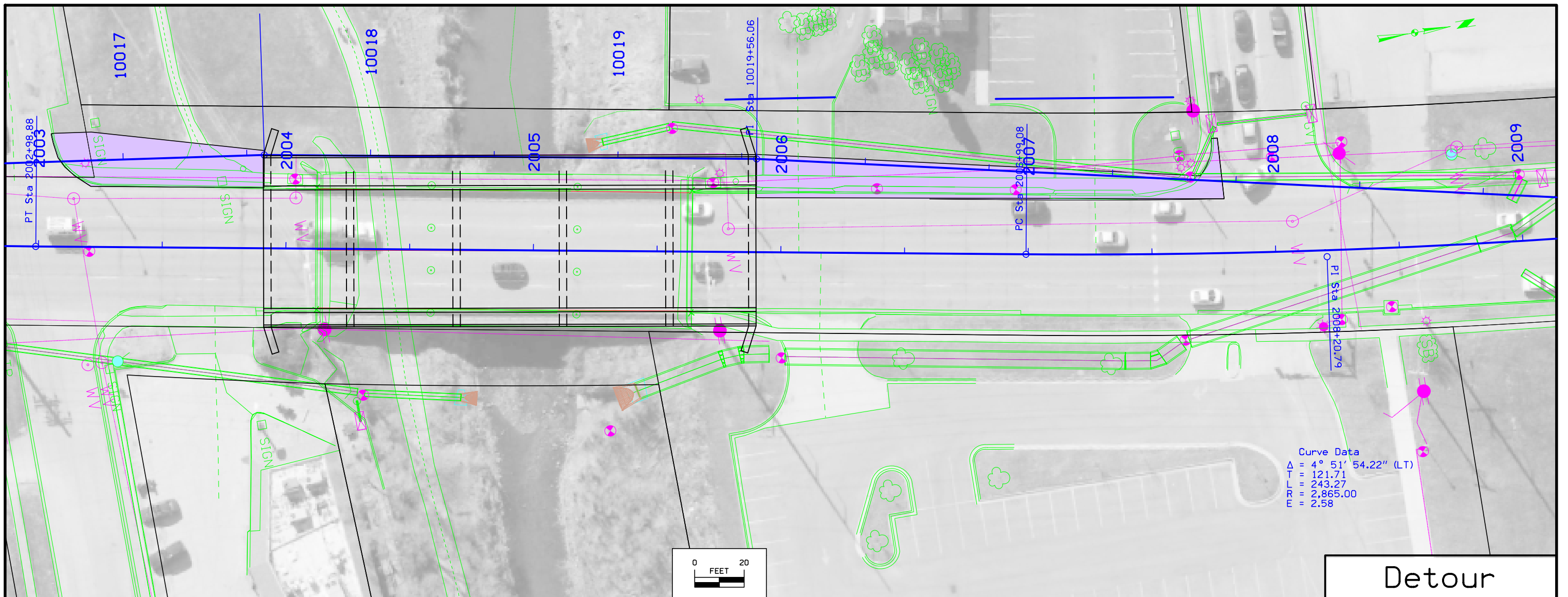




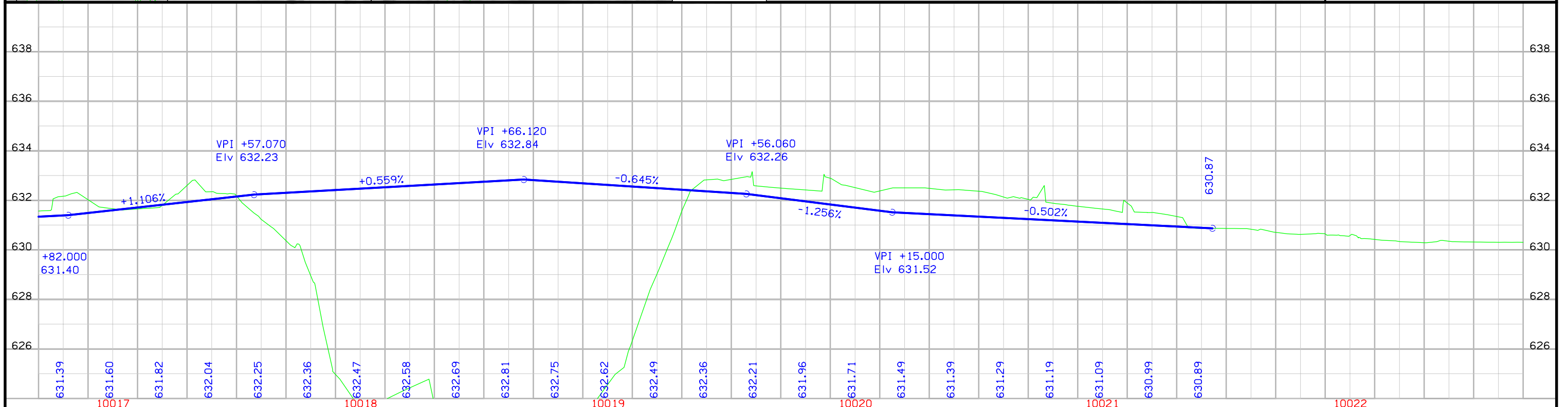
**BIKE PATH 2**







Detour



## Survey Information

**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 2<sup>nd</sup> order class I mark designated RIC 031 has a published Elev. Of 562.14  
 Survey Elev. = 562.313

NGS 2<sup>nd</sup> 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 414 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 BUILDING PID= MG0321. SEE <a href="https://www.ngs.noaa.gov/cgi-bin/ds_mark.prl?PIDBOX=MG0321">HTTPS://WWW.NGS.NOAA.GOV/CGI-BIN/DS_MARK.PRL?PIDBOX=MG0321</a>
FENO 78	8074966.258	21490011.035	625.688	SET FENO TYPE MONUMENT 73 FEET NORTH OF A NAIL SET ON CLOF 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 <a href="http://www.scottcountyiowa.us/gis/pub/documents/gps_control/20160114_scott_county_2015_monument_records.pdf">HTTP://WWW.SCOTTCOUNTYIOWA.US/GIS/PUB/DOCUMENTS/GPS_CONTROL/20160114_SCOTT_COUNTY_2015_MONUMENT_RECORDS.PDF</a>
648	8084840.612	21481722.019	731.464	FND SCOTT COUNTY GPS MONUMENT. SEE <a href="http://www.scottcountyiowa.us/gis/pub/documents/gps_control/20160114_scott_county_2015_monument_records.pdf">HTTP://WWW.SCOTTCOUNTYIOWA.US/GIS/PUB/DOCUMENTS/GPS_CONTROL/20160114_SCOTT_COUNTY_2015_MONUMENT_RECORDS.PDF</a>

### 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

## 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

1a. Regional Coordinate System Zone 11

Coordinate listing from next sheet will be used with 1aRTN 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 <a href="https://www.ngs.noaa.gov/cgi-bin/ds_mark.prl?pidbox=mg0321">HTTPS://WWW.NGS.NOAA.GOV/CGI-BIN/DS_MARK.PRL?PIDBOX=MG0321</a>
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 <a href="http://www.scottcountyiowa.us/gis/pub/documents/gps_control/20160114_scott_county_2015_monument_records.pdf">HTTP://WWW.SCOTTCOUNTYIOWA.US/GIS/PUB/DOCUMENTS/GPS_CONTROL/20160114_SCOTT_COUNTY_2015_MONUMENT_RECORDS.PDF</a>
648	8084840.612	21481722.019	731.464	FND SCOTT COUNTY GPS MONUMENT. SEE <a href="http://www.scottcountyiowa.us/gis/pub/documents/gps_control/20160114_scott_county_2015_monument_records.pdf">HTTP://WWW.SCOTTCOUNTYIOWA.US/GIS/PUB/DOCUMENTS/GPS_CONTROL/20160114_SCOTT_COUNTY_2015_MONUMENT_RECORDS.PDF</a>

**TRAFFIC CONTROL PLAN**

Two Mainline lanes of traffic shall be maintained at all times.  
One lane of traffic will be maintained on E. George Washington Blvd. at all times.  
Sidewalks and bikepaths will be closed during construction.

**STAGING NOTES**

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 bridge.

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

Stage 2B:  
Traffic Control:  
Maintain alternating two-way traffic on E. George Washington Blvd. to the east.  
Construction:  
Construct partial east side bridge approaches south of bridge.  
Construct northeast return of East George Washington Blvd., and sidewalk southeast of 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 East George Washington Blvd. to the west, and southwest E. 35th St. return.  
Construct bikepaths.

Stage 4:  
Open Project to normal traffic.

**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*		Remarks
		No.		
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	

**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	

**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**

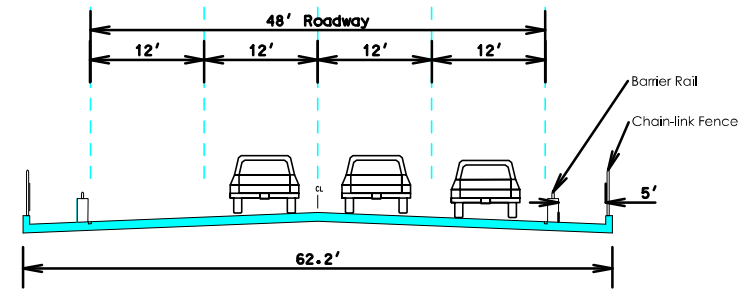
(COVERS SHEET SERIES J)



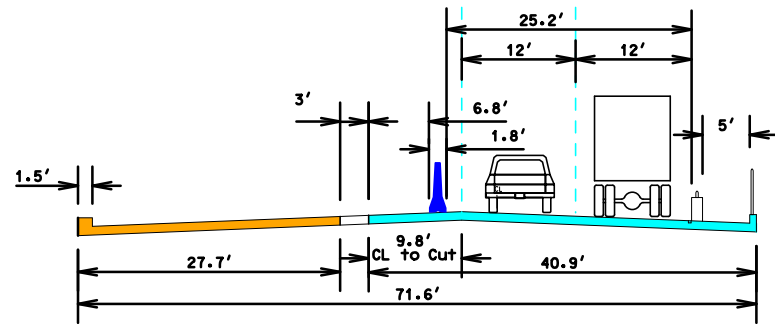
# Cross Sections for Scott County Project BRF-461-1(9)--38-82 Over Duck Creek 0.4 miles South of U.S. 6 in Davenport (NB)

Maintaining two lanes of traffic

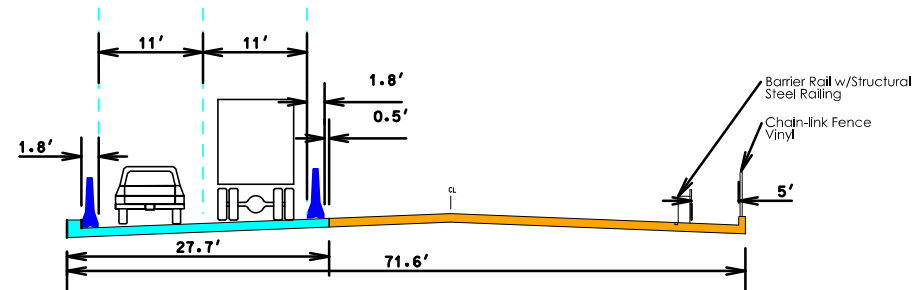
Existing Typical Section



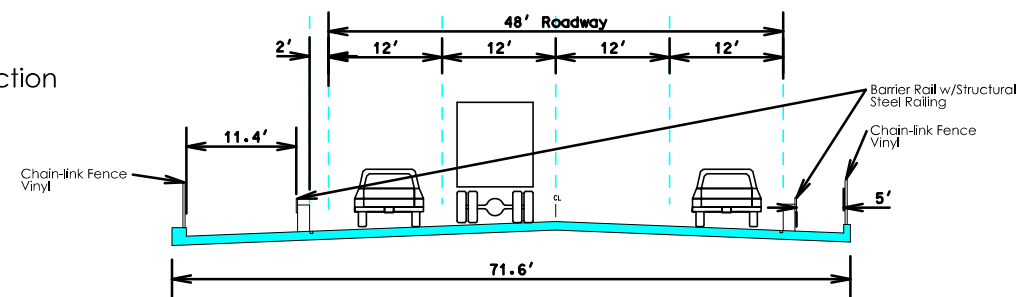
Stage 1



Stage 2



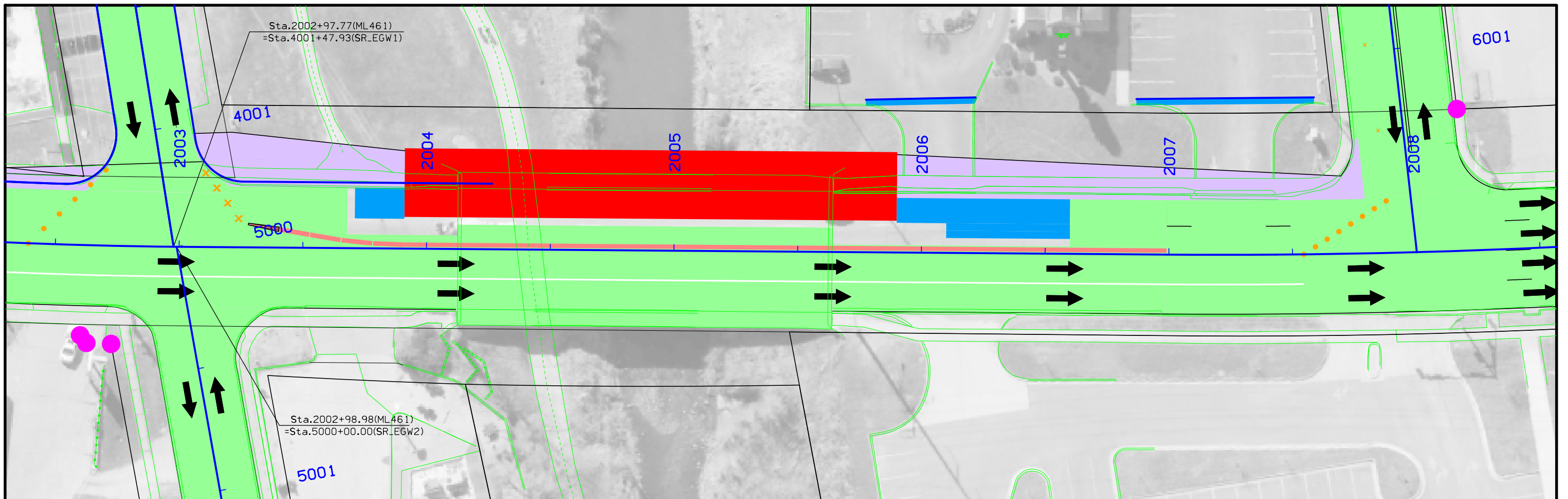
Finished Section



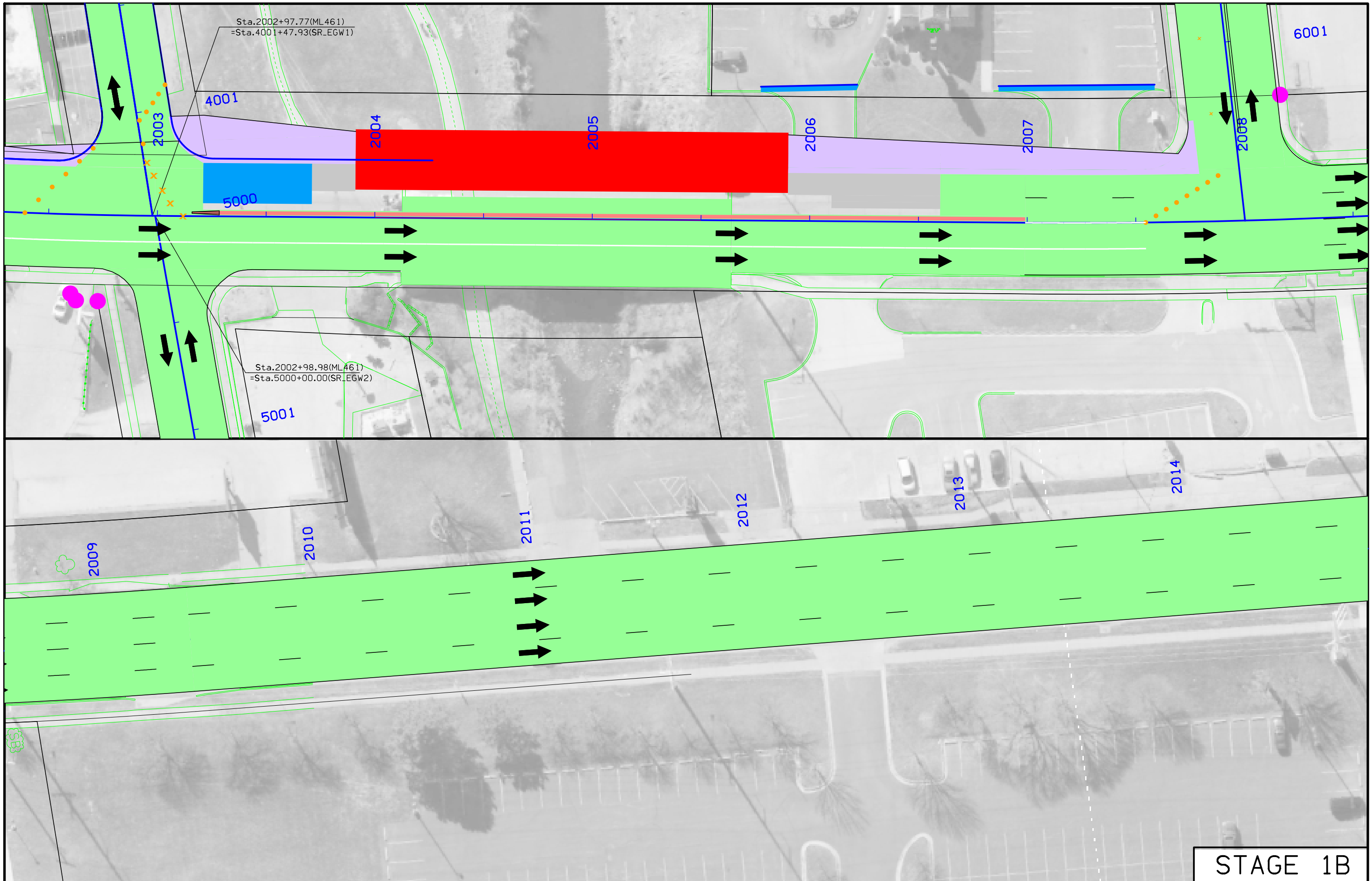
Legend

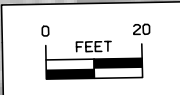
- █ Under Construction
- █ Driving Surface



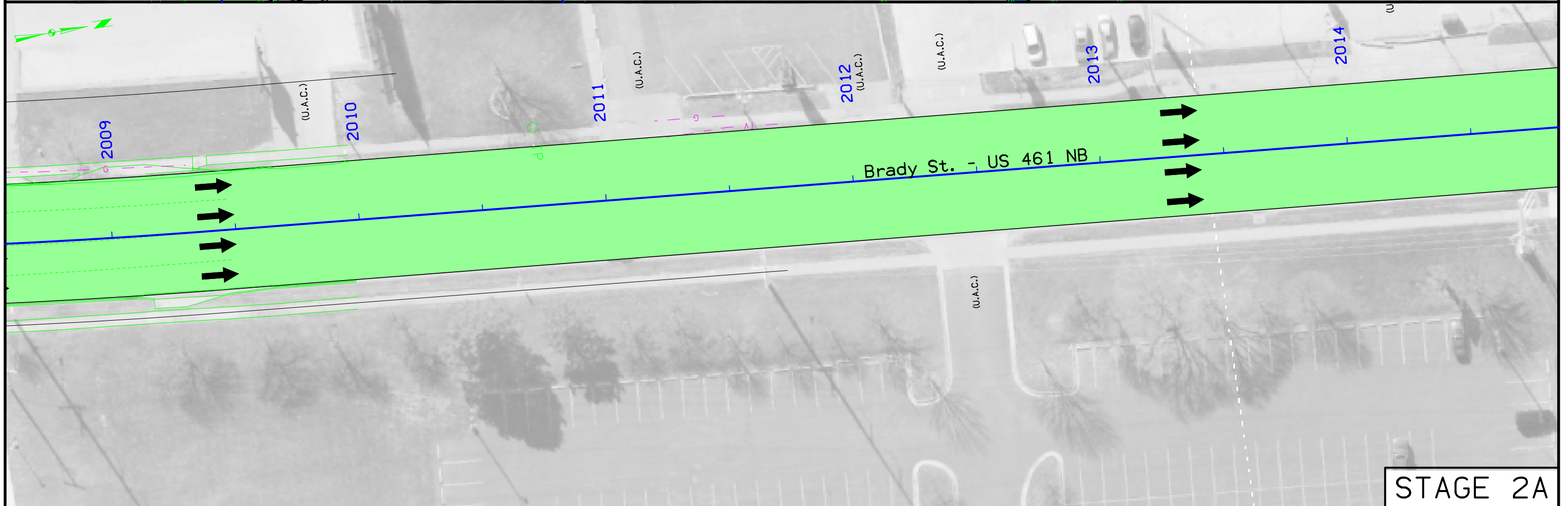
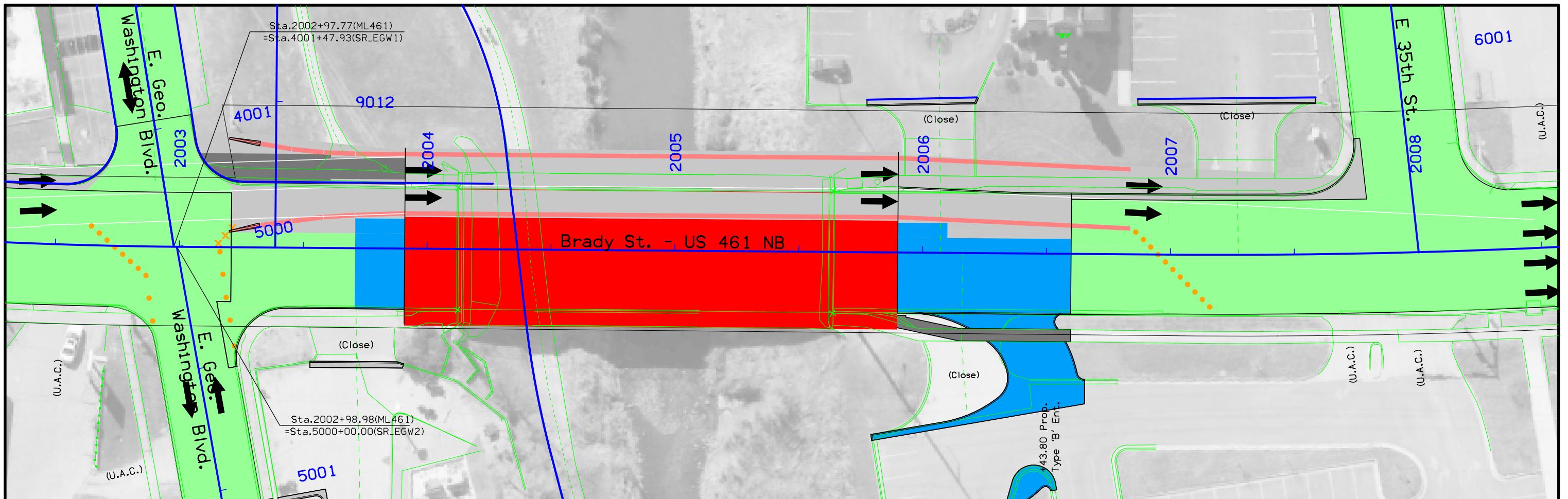








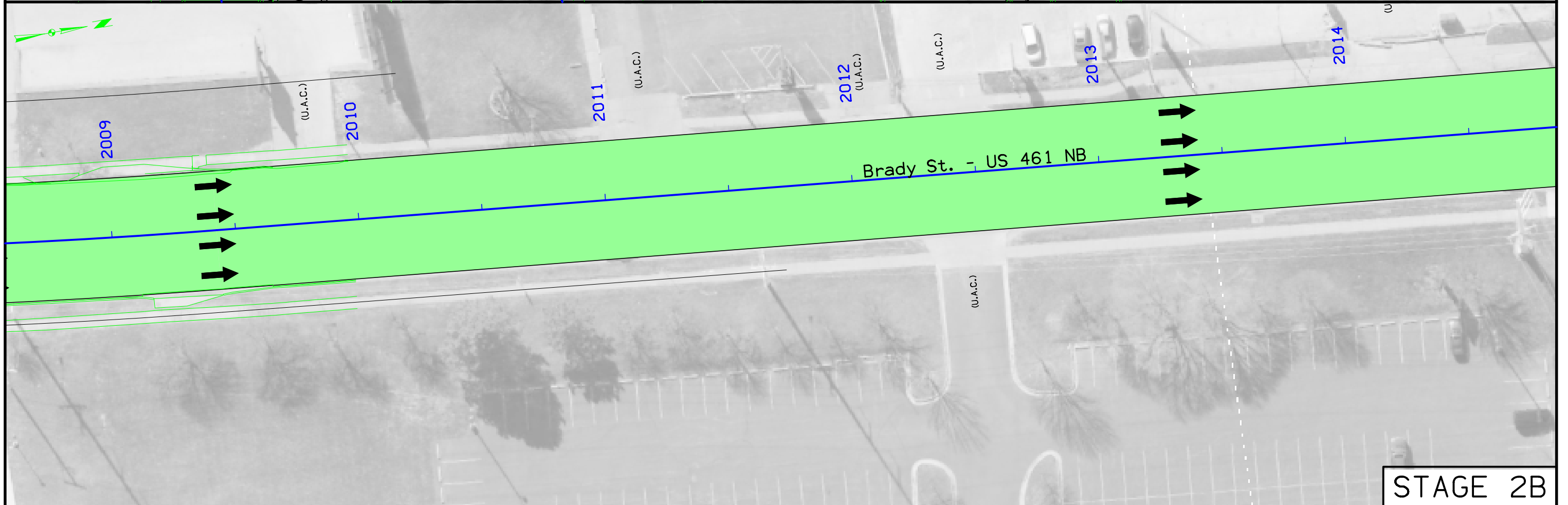
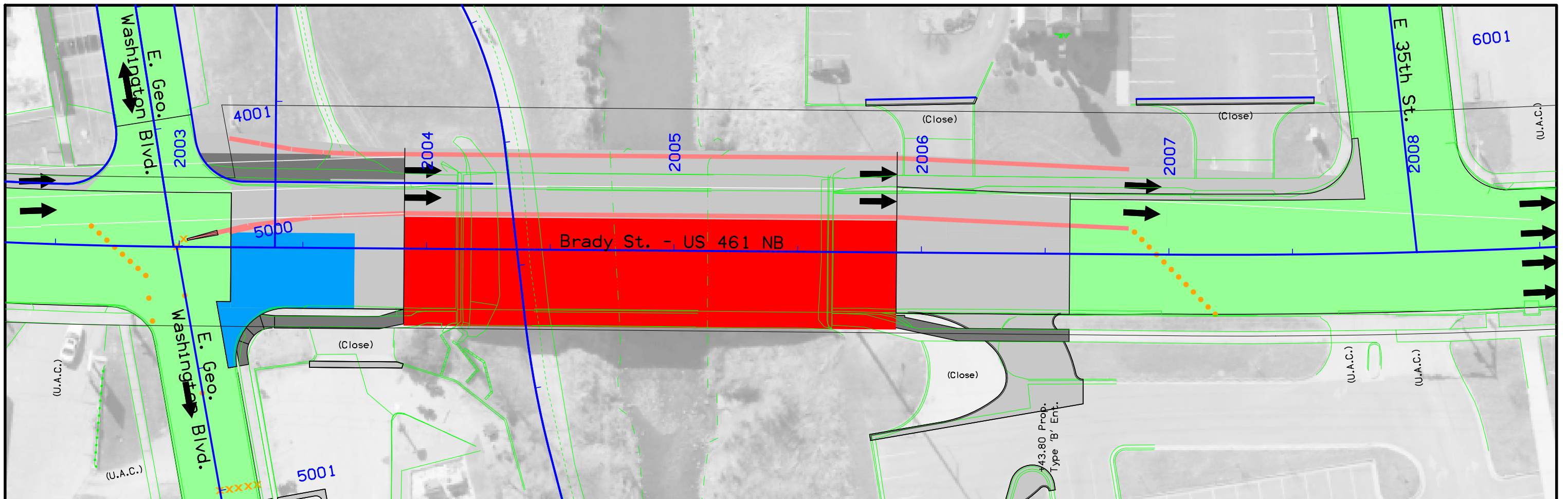
**STAGE 2A**



STAGE 2A



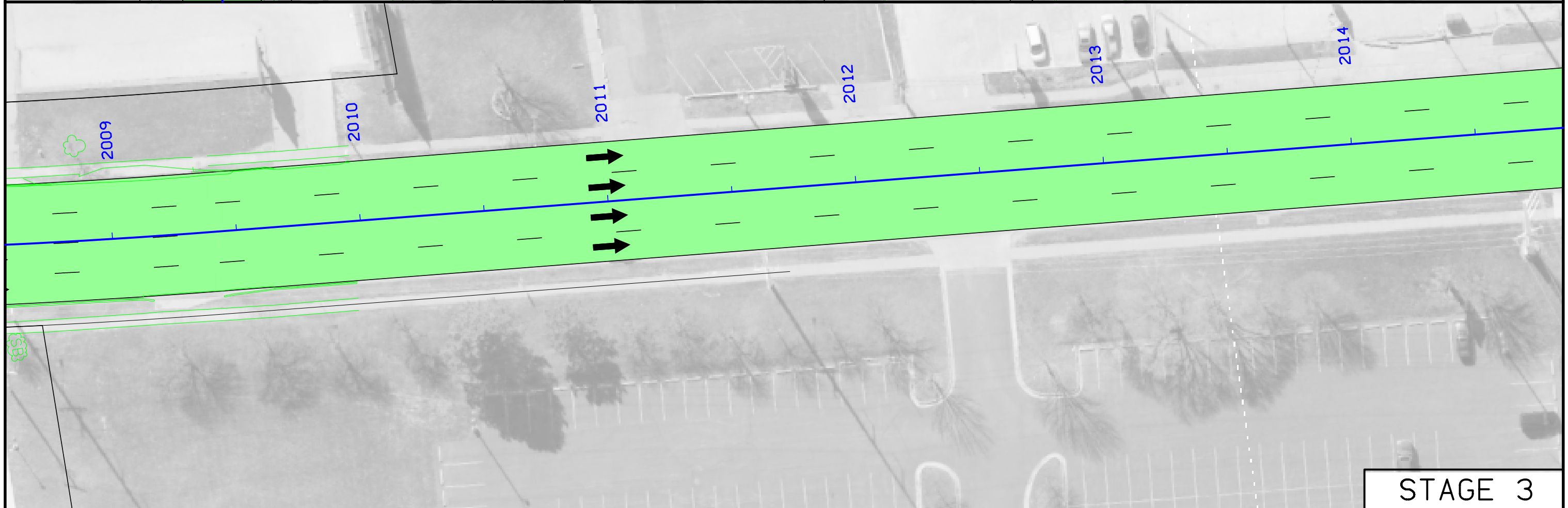
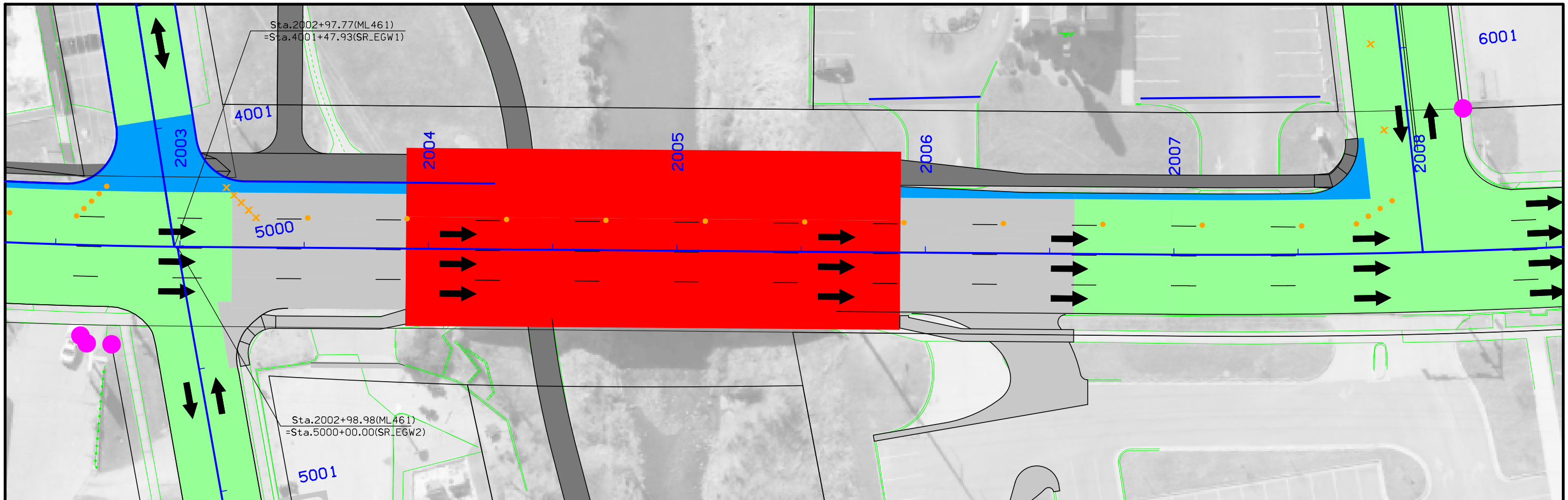




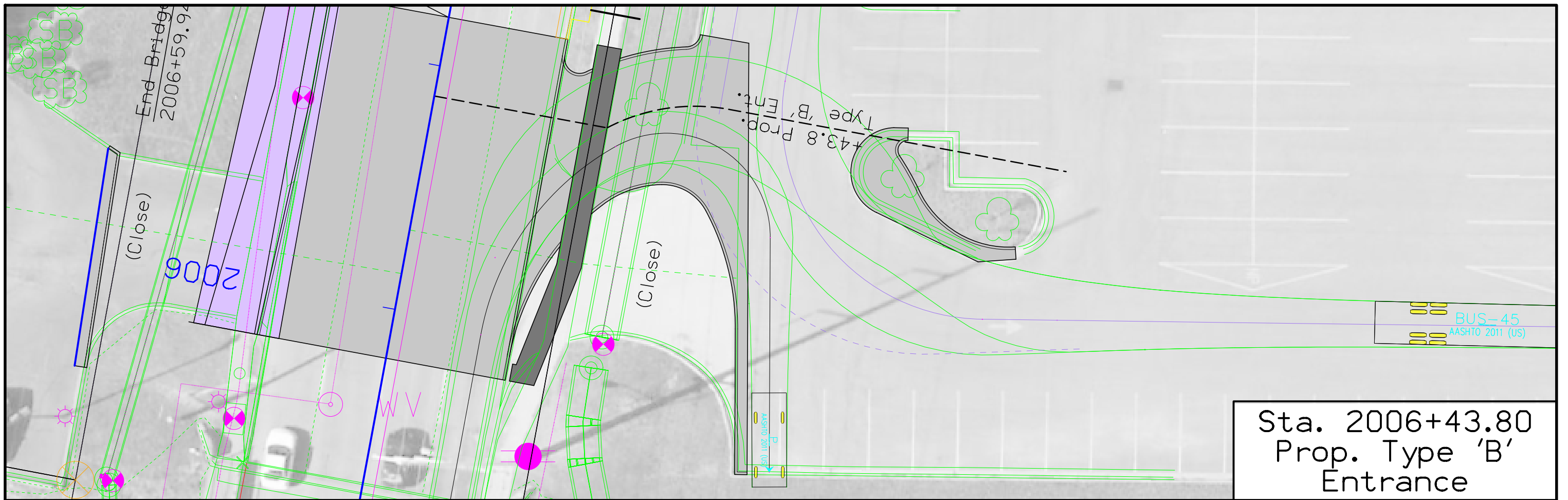
STAGE 2B



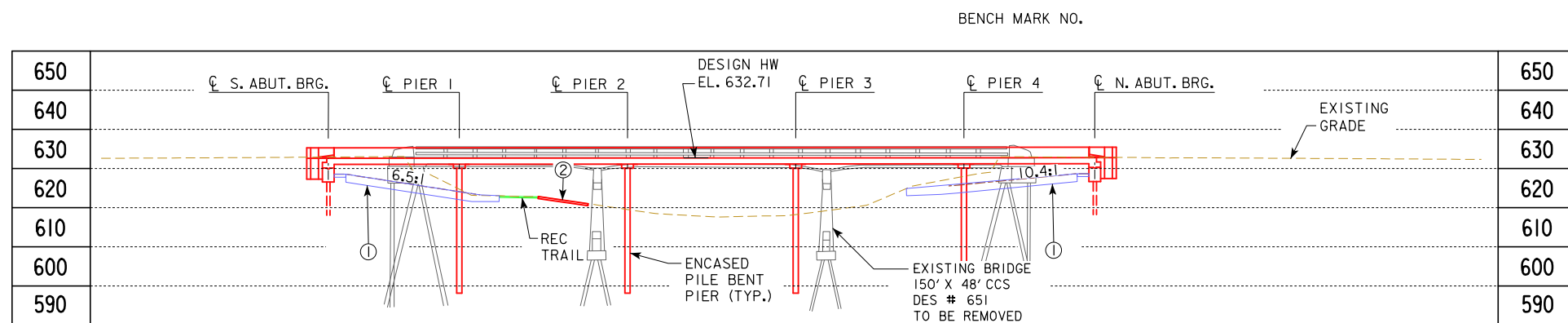
**STAGE 3**



**STAGE 3**

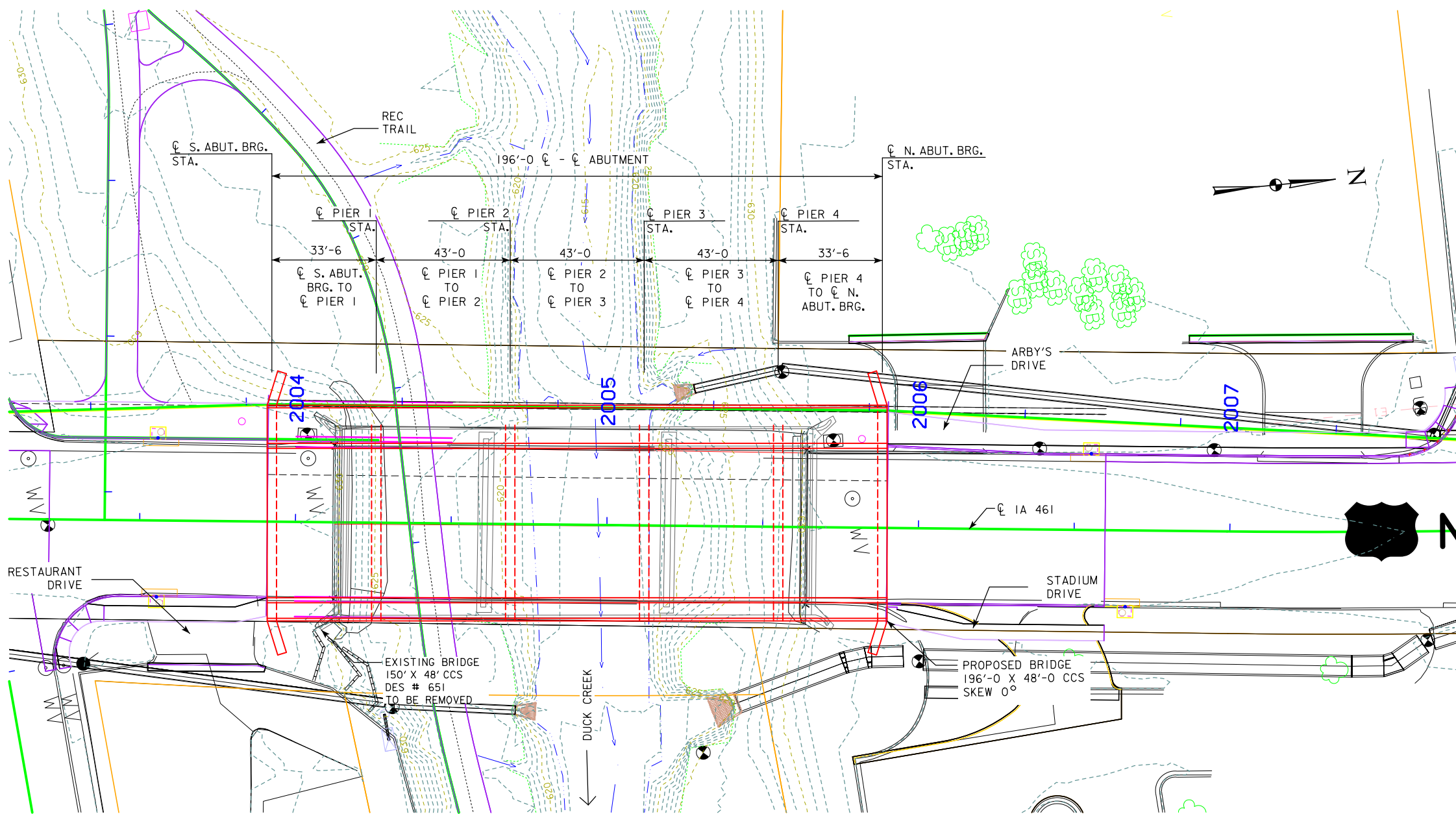


Sta. 2006+43.80  
 Prop. Type 'B'  
 Entrance



- ① CONCRETE SLOPE PROTECTION
- ② ARTICULATED BLOCK MAT EROSION PROTECTION

LONGITUDINAL SECTION ALONG CL APPROACH ROADWAY



SITUATION PLAN

**HYDRAULIC DATA**

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

Q<sub>50</sub> = 9,710 CFS  
 STAGE = 631.66  
 BACKWATER = 0.35 FT.  
 AVG. BRIDGE VELOCITY = 5.2 FPS

Q<sub>100</sub> = 12,200 CFS  
 STAGE = 632.71  
 BACKWATER = 0.37 FT.  
 AVG. BRIDGE VELOCITY = 4.1 FPS

Q<sub>500</sub> = 18,780 CFS  
 STAGE = 635.79  
 CALCULATED CHECK SCOUR = ????.?

ROADWAY OVERTOP  
 STA. ???+???

**LOCATION**

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

**TRAFFIC ESTIMATE**

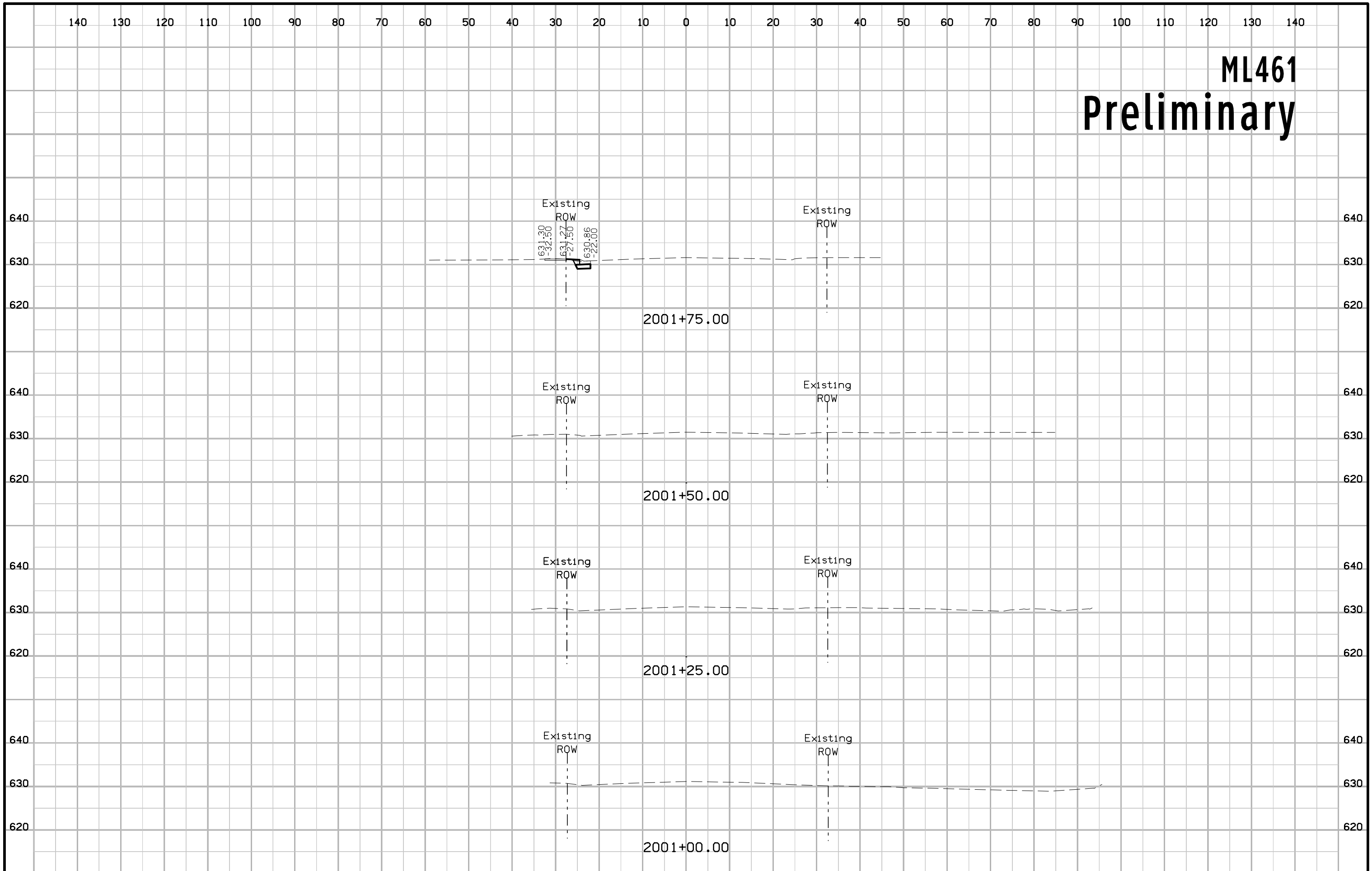
2014 AADT	23,000	V.P.D.
202_ AADT	___	V.P.D.
202_ DHV	___	V.P.H.
TRUCKS	___	%
TOTAL	___	
DESIGN ESALs	___	



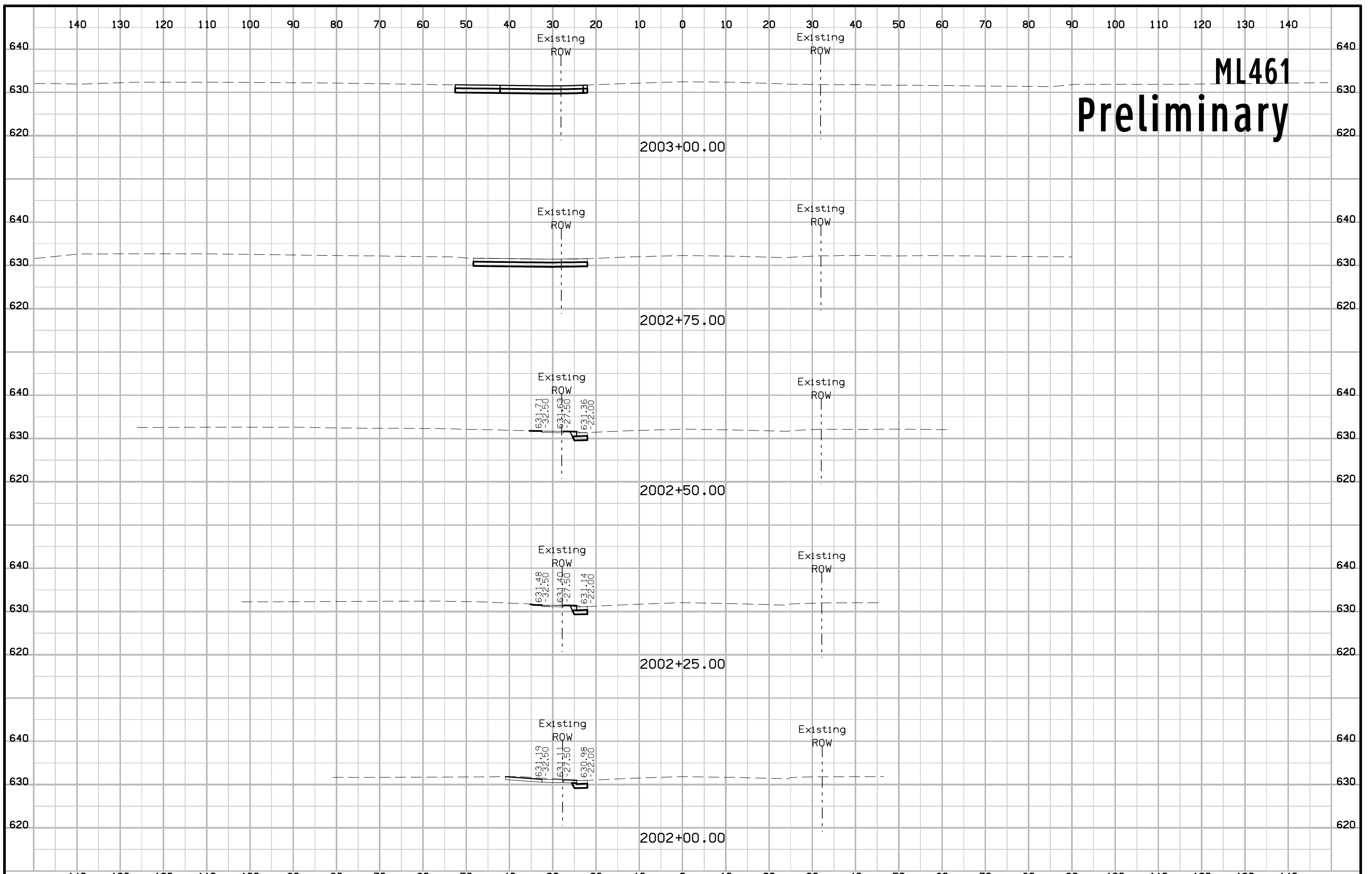
D2  
 DESIGN FOR 0° SKEW  
**196'-0 X 48'-0 CONTINUOUS CONCRETE  
 SLAB BRIDGE W\ 5'-0 EAST  
 SIDEWALK AND 11'-5 WEST SIDEWALK  
 SITUATION PLAN**

STATION \_\_\_\_\_ JUNE 2019  
**SCOTT COUNTY**  
 IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION  
 DESIGN SHEET NO. 1 OF 1 FILE NO. ? DESIGN NO. ?

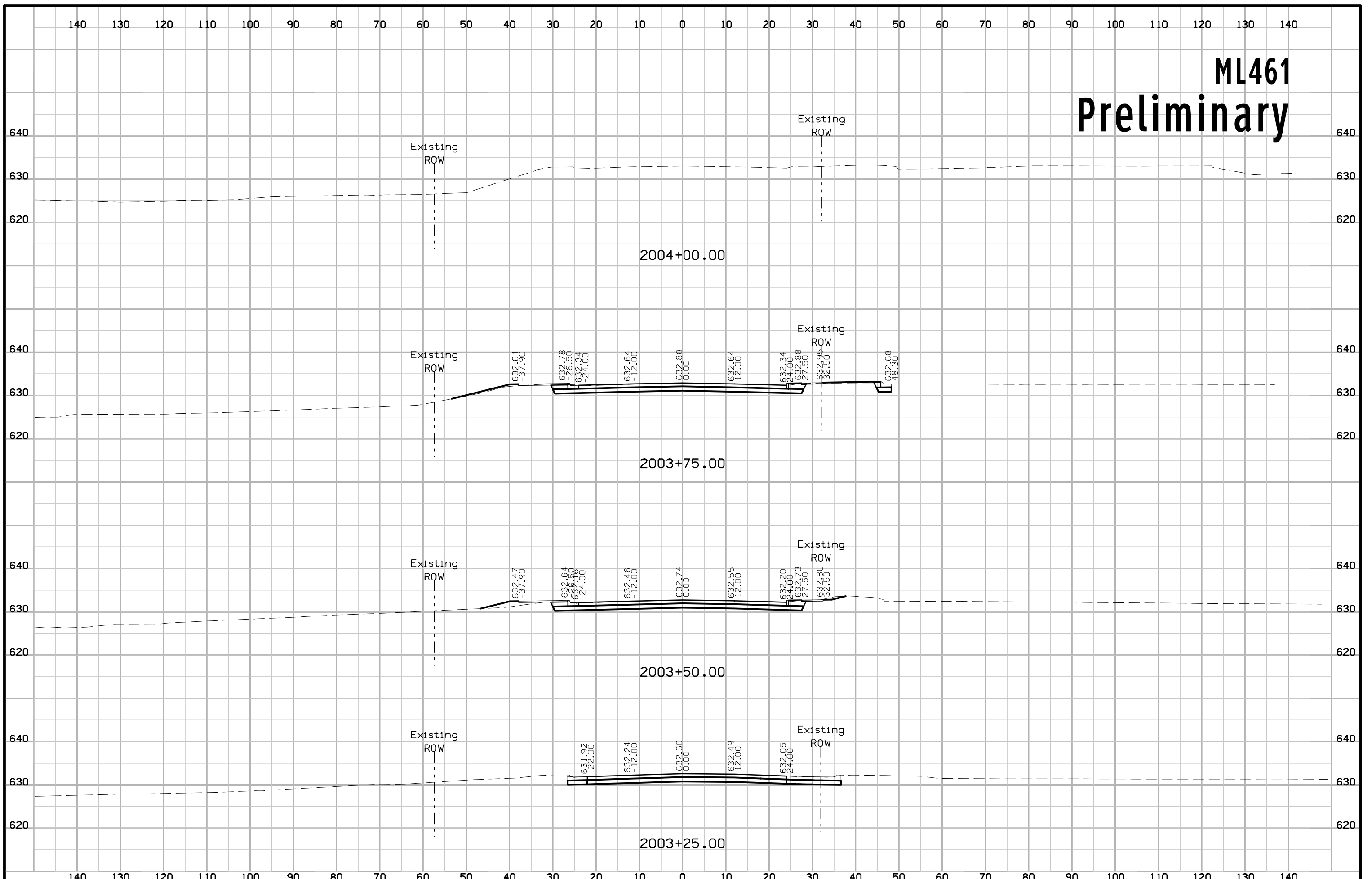
# ML461 Preliminary



# ML461 Preliminary

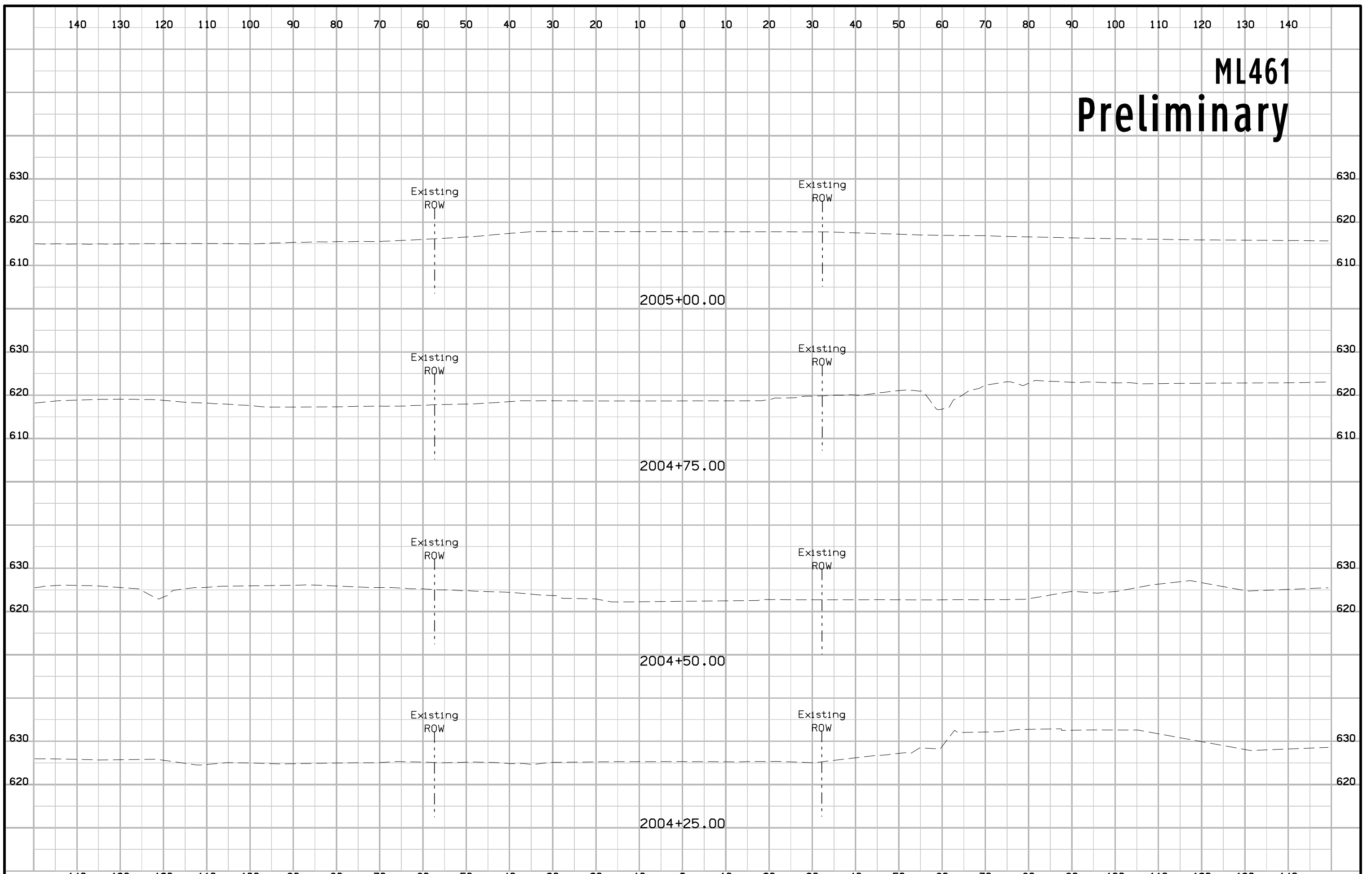


# ML461 Preliminary

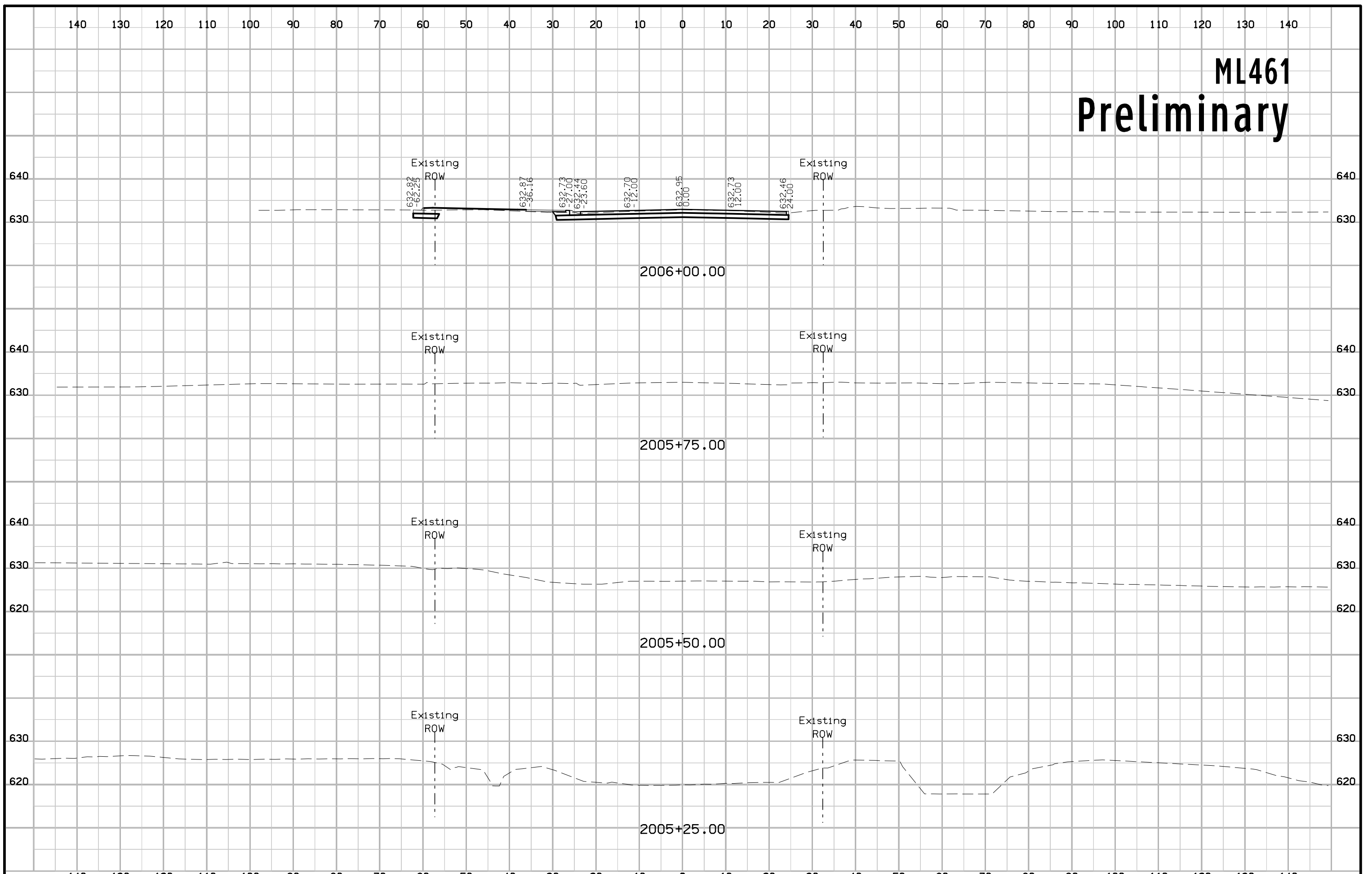




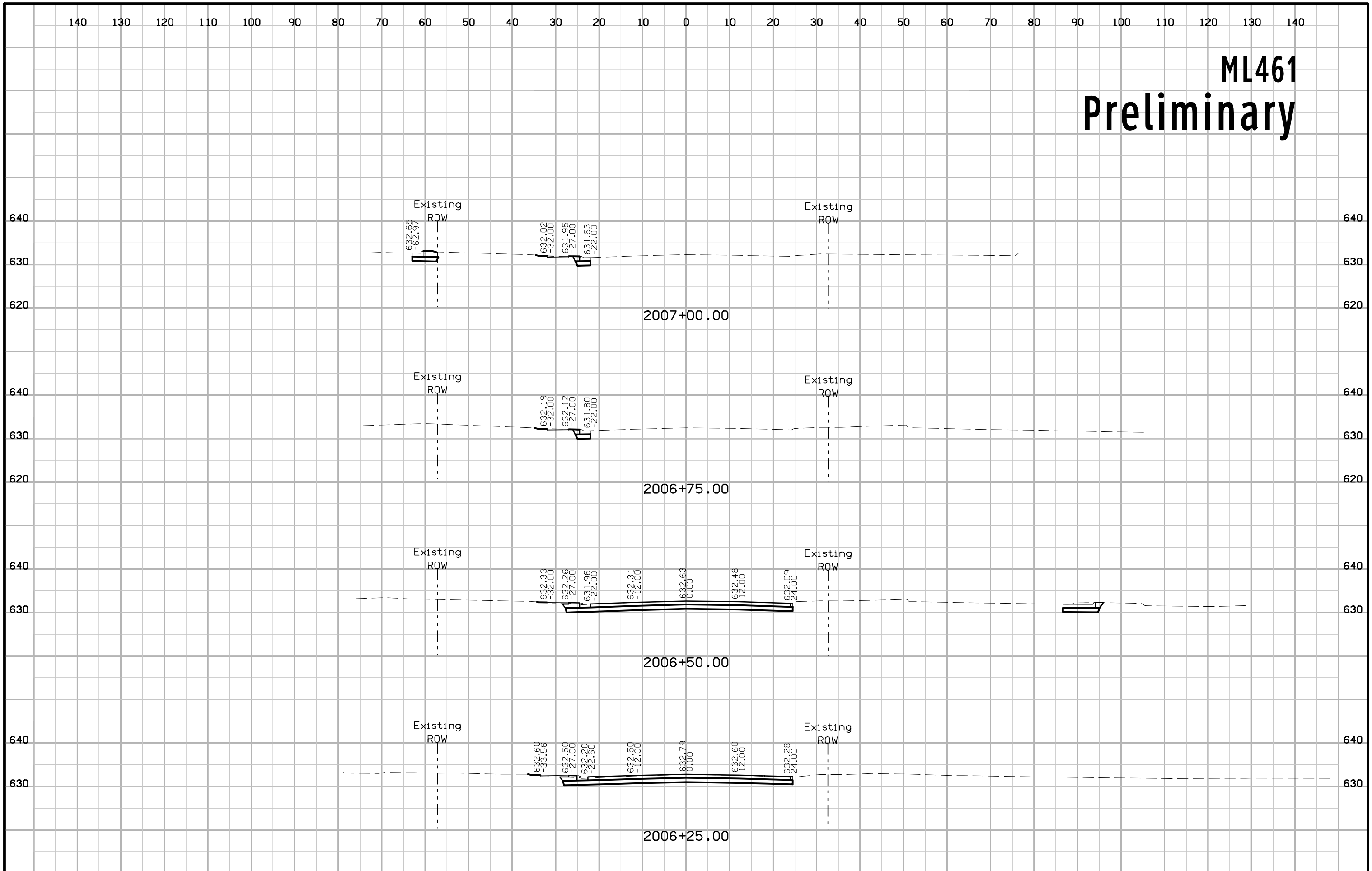
# ML461 Preliminary



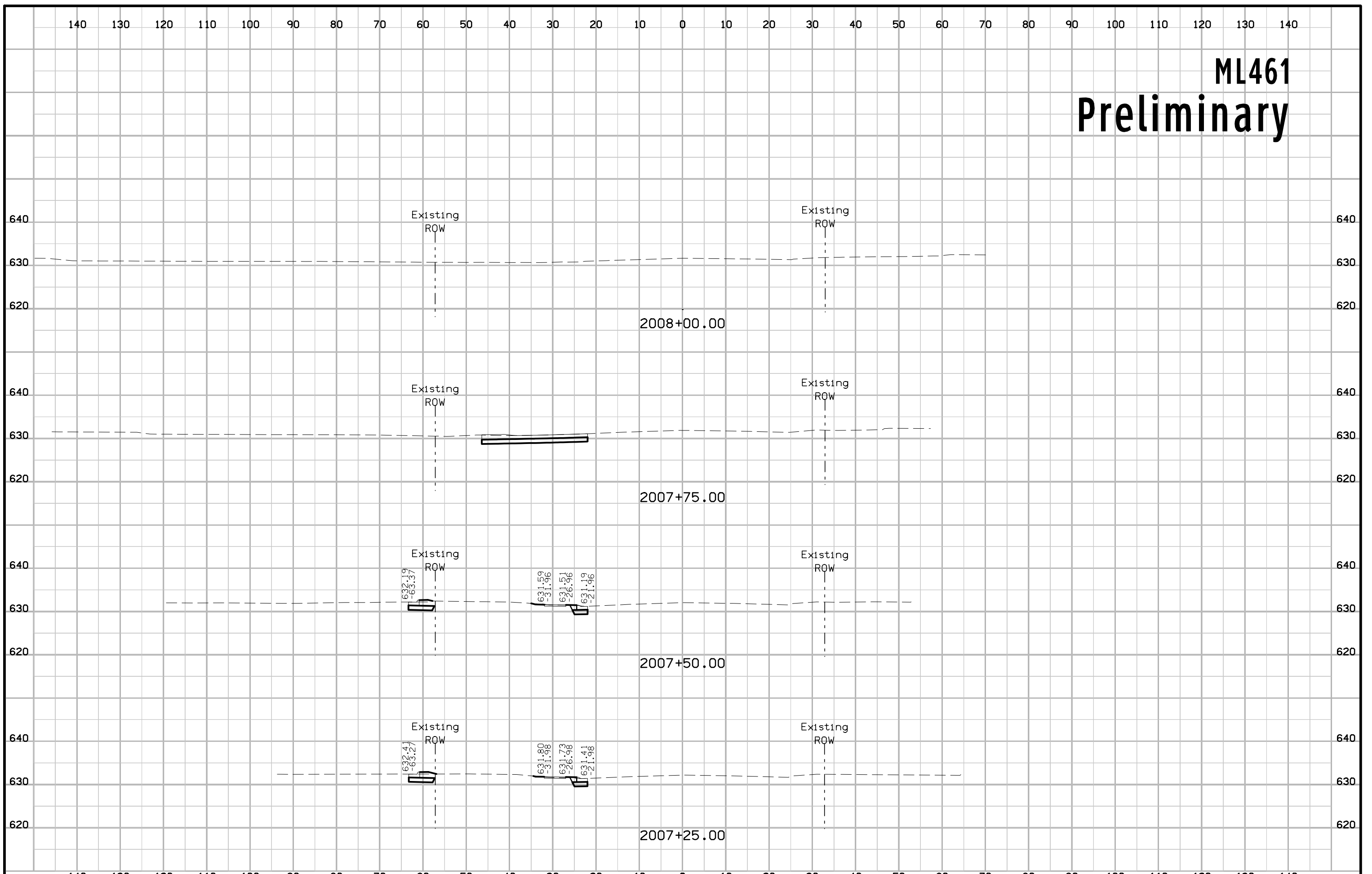
# ML461 Preliminary



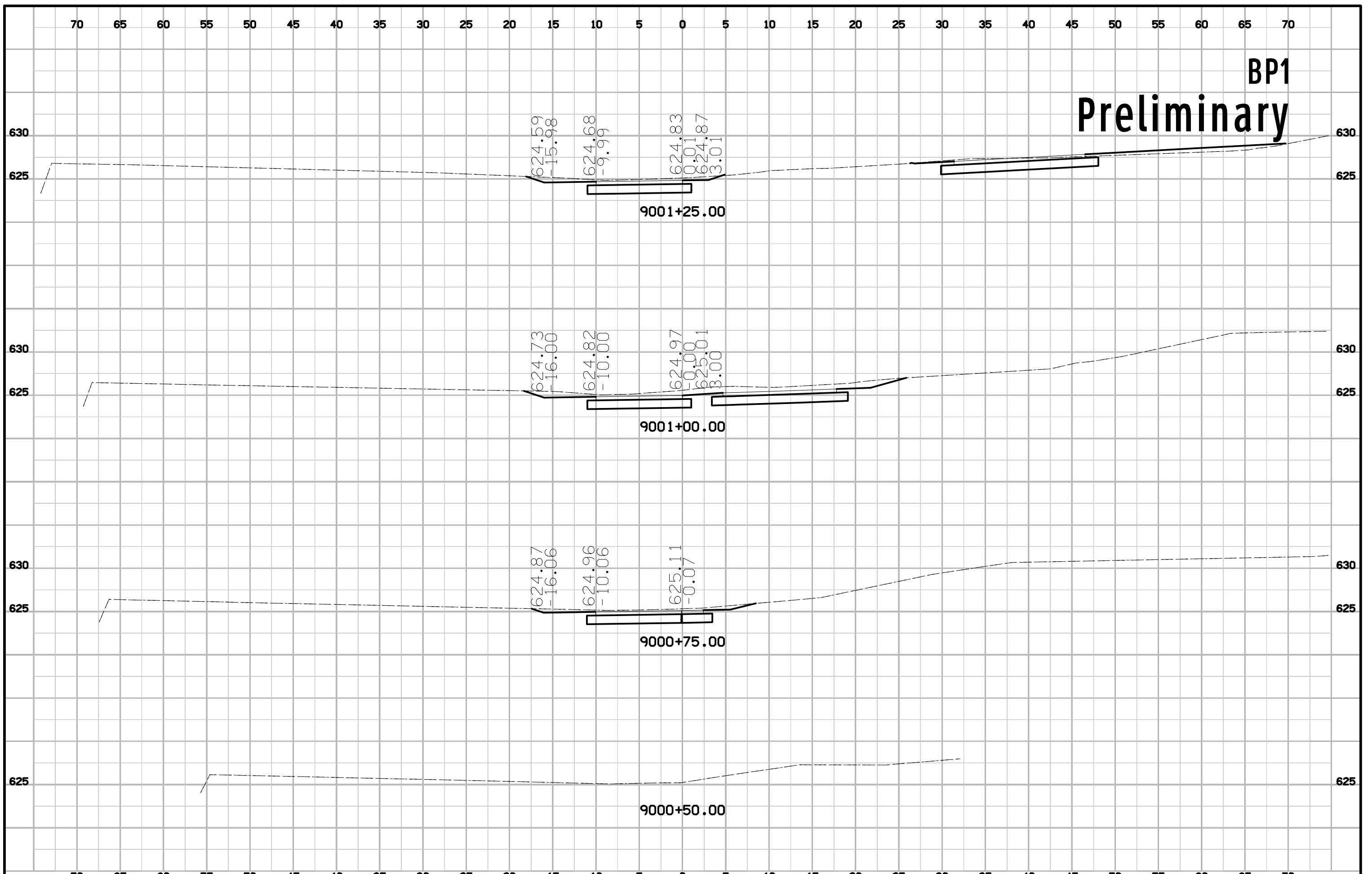
# ML461 Preliminary



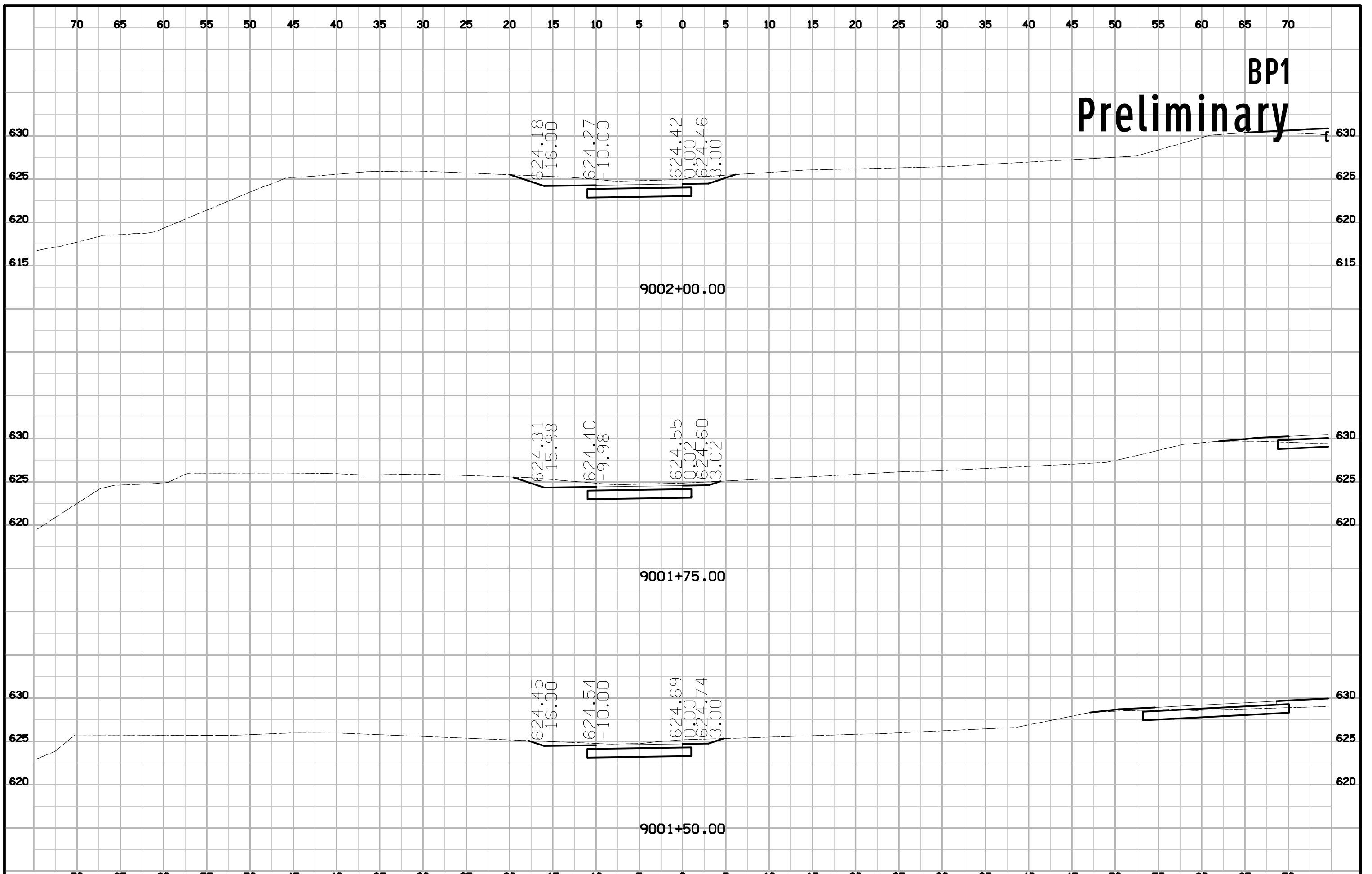
# ML461 Preliminary



# BP1 Preliminary

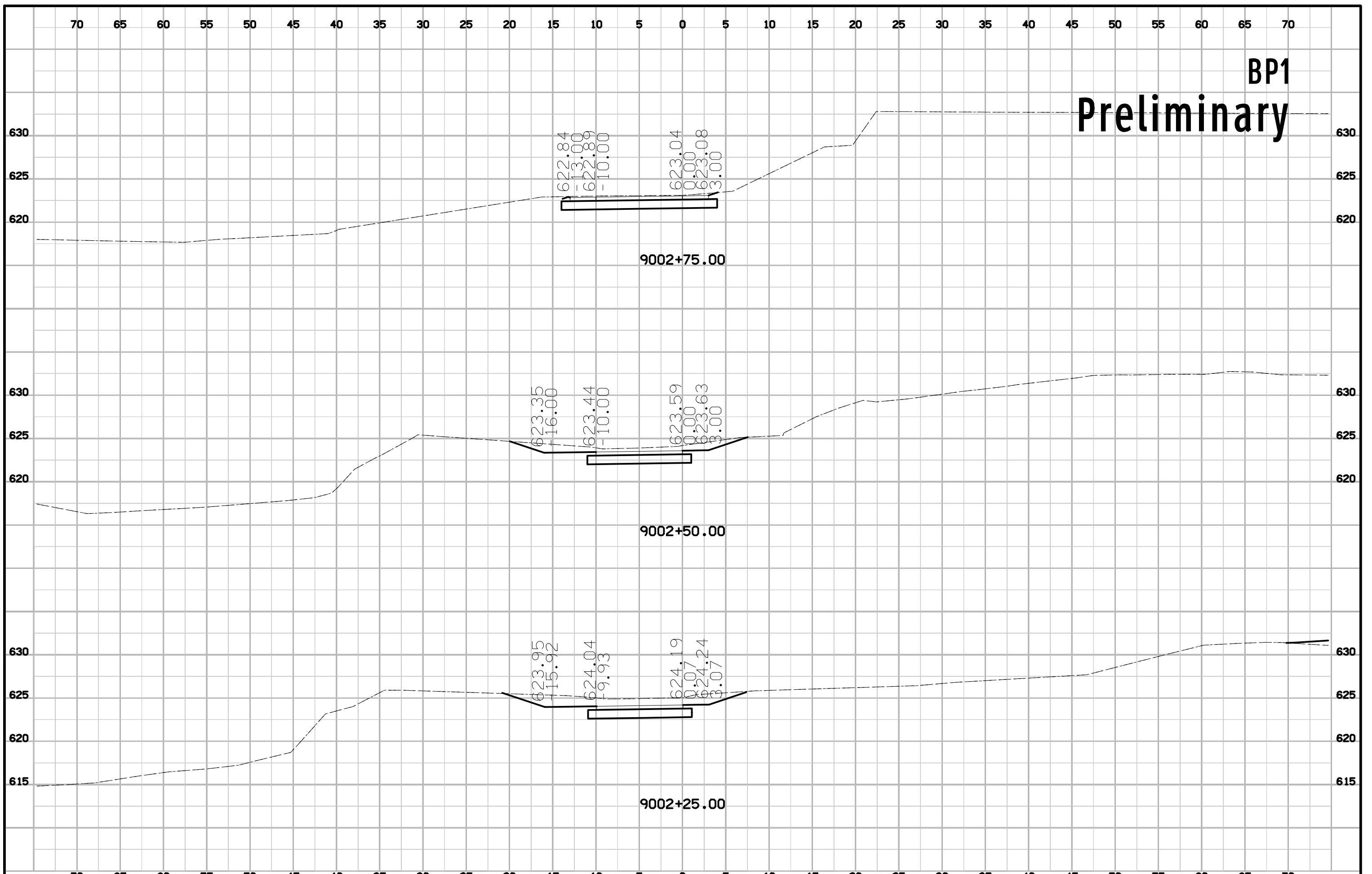


# BP1 Preliminary

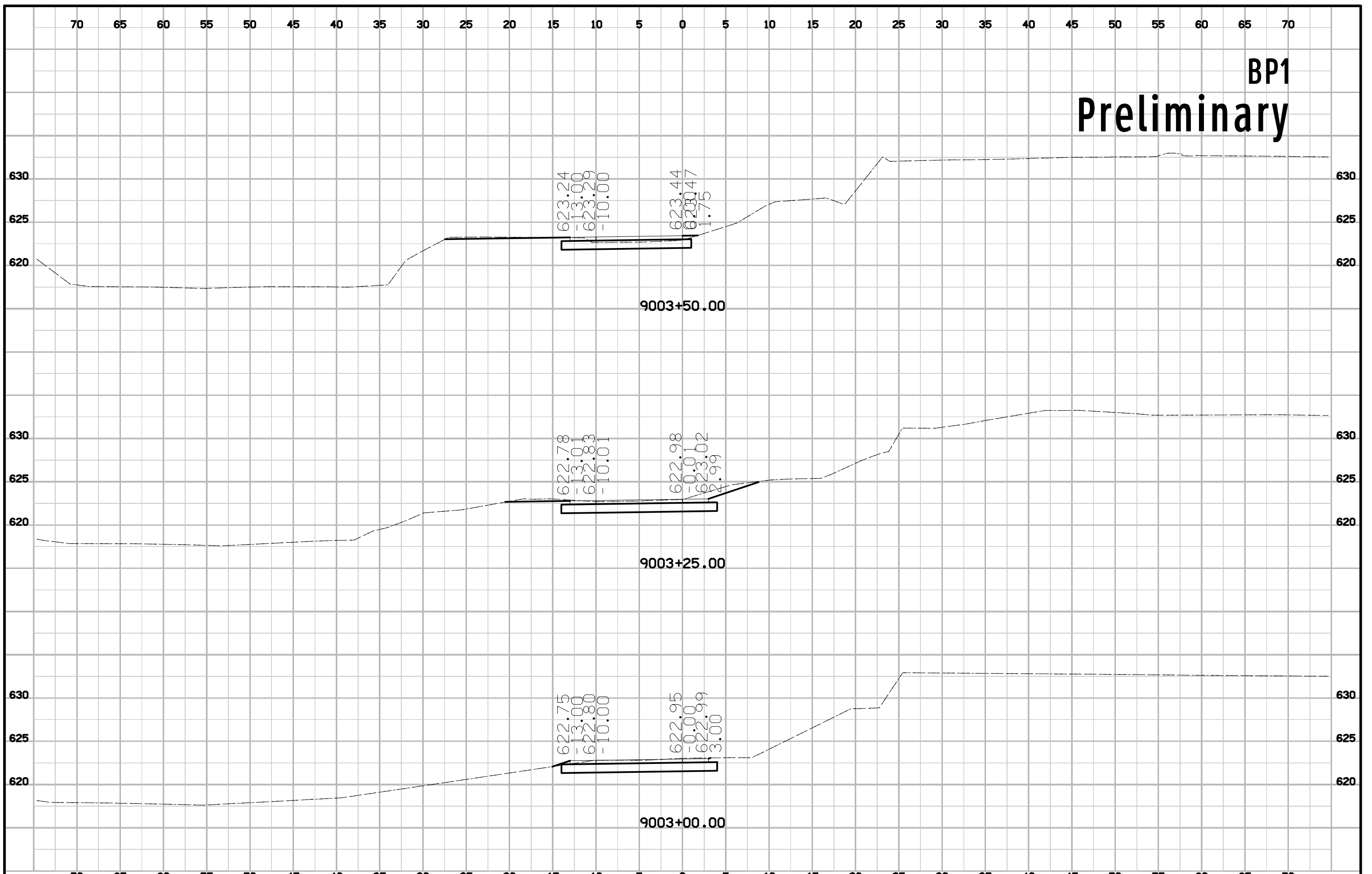


BP1

Preliminary

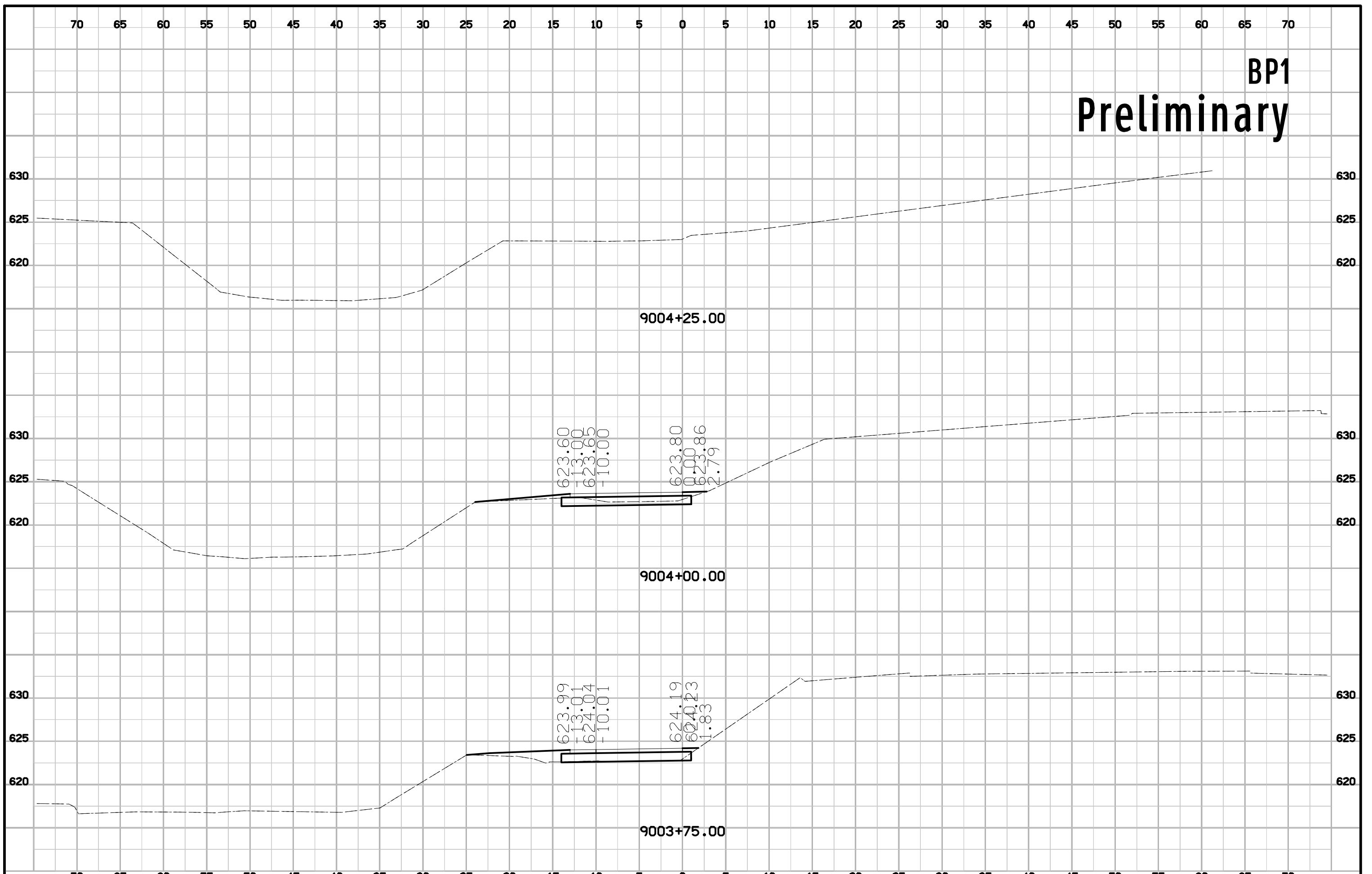


# BP1 Preliminary

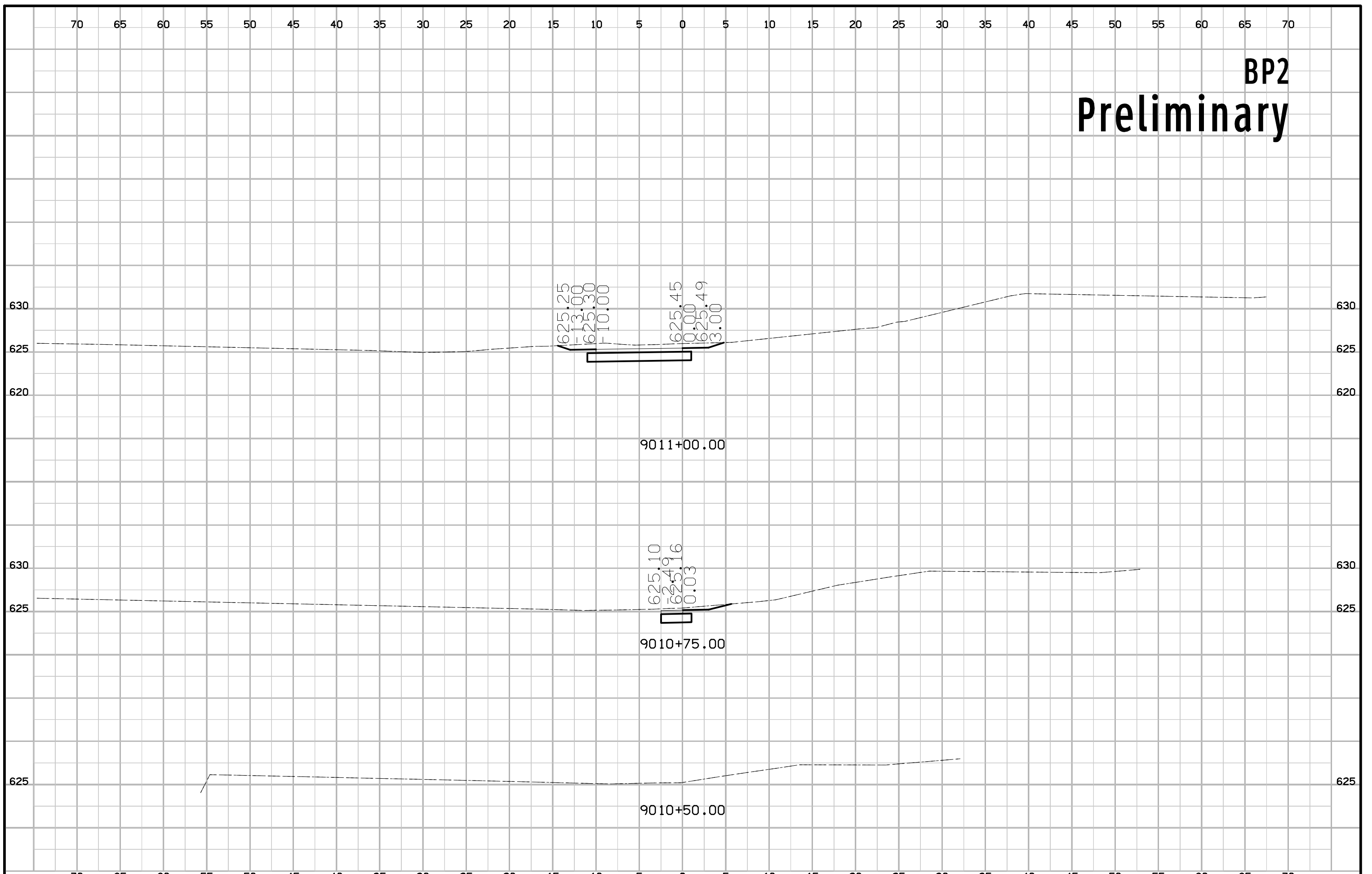


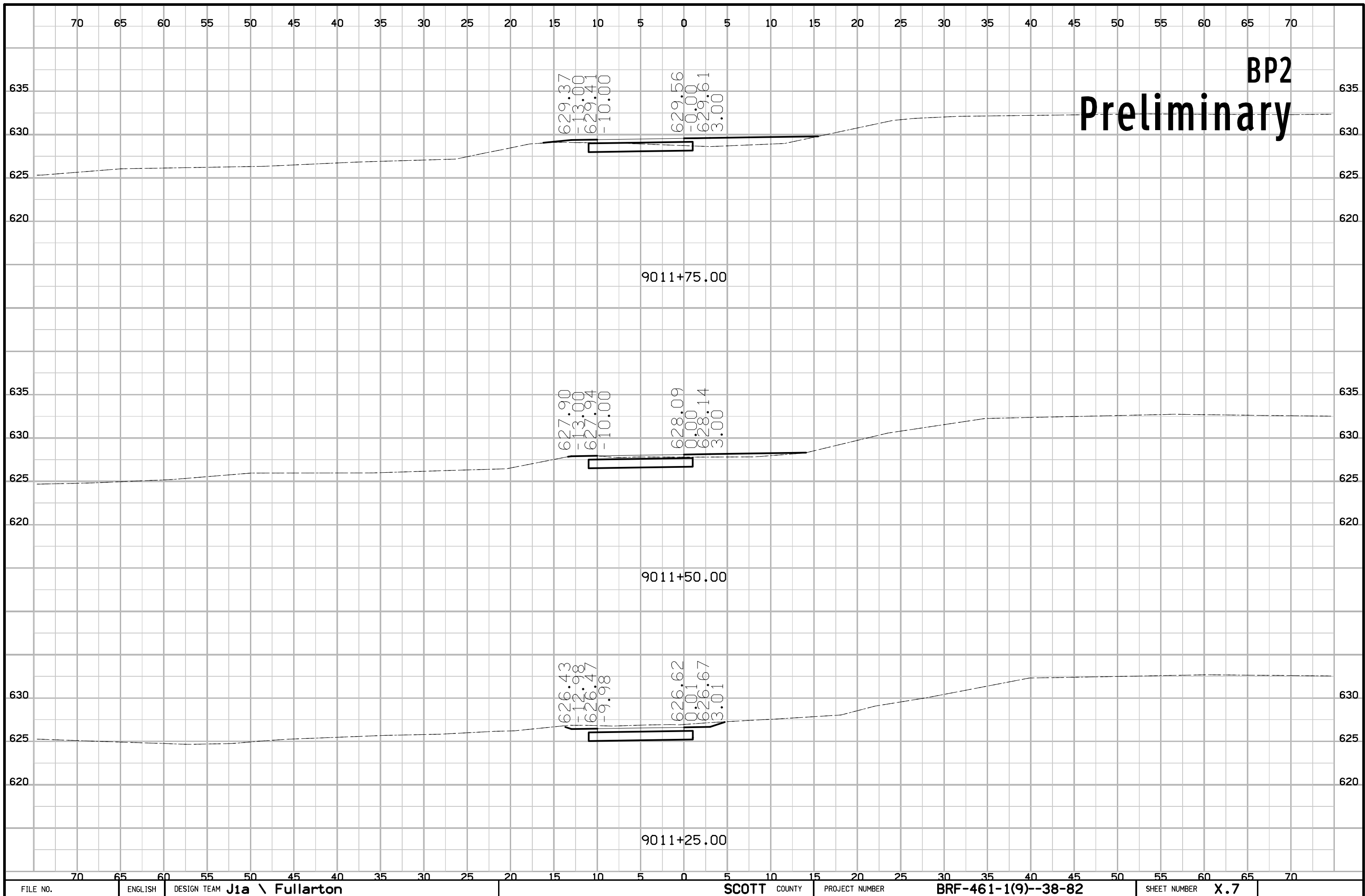


# BP1 Preliminary

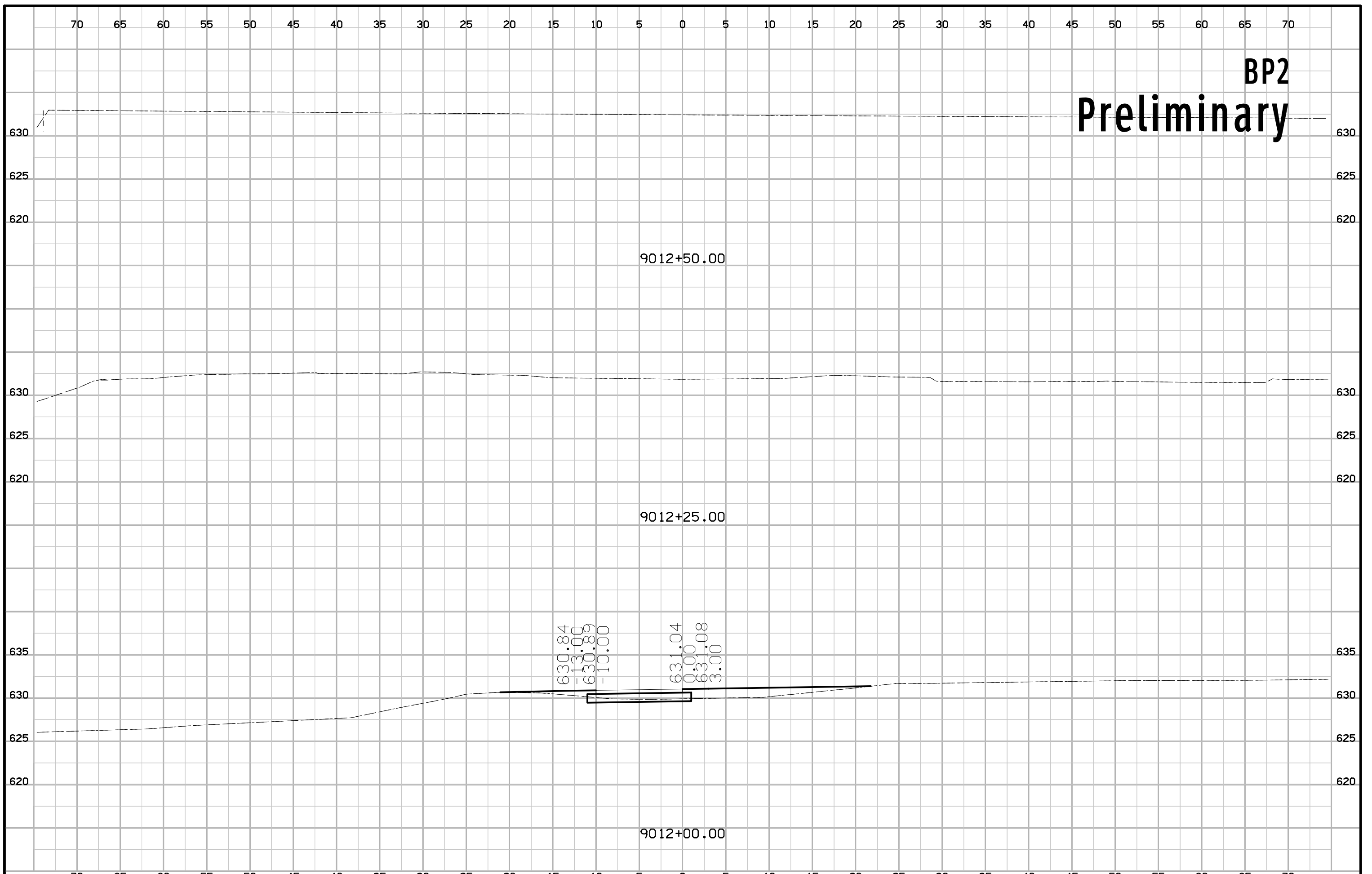


# BP2 Preliminary

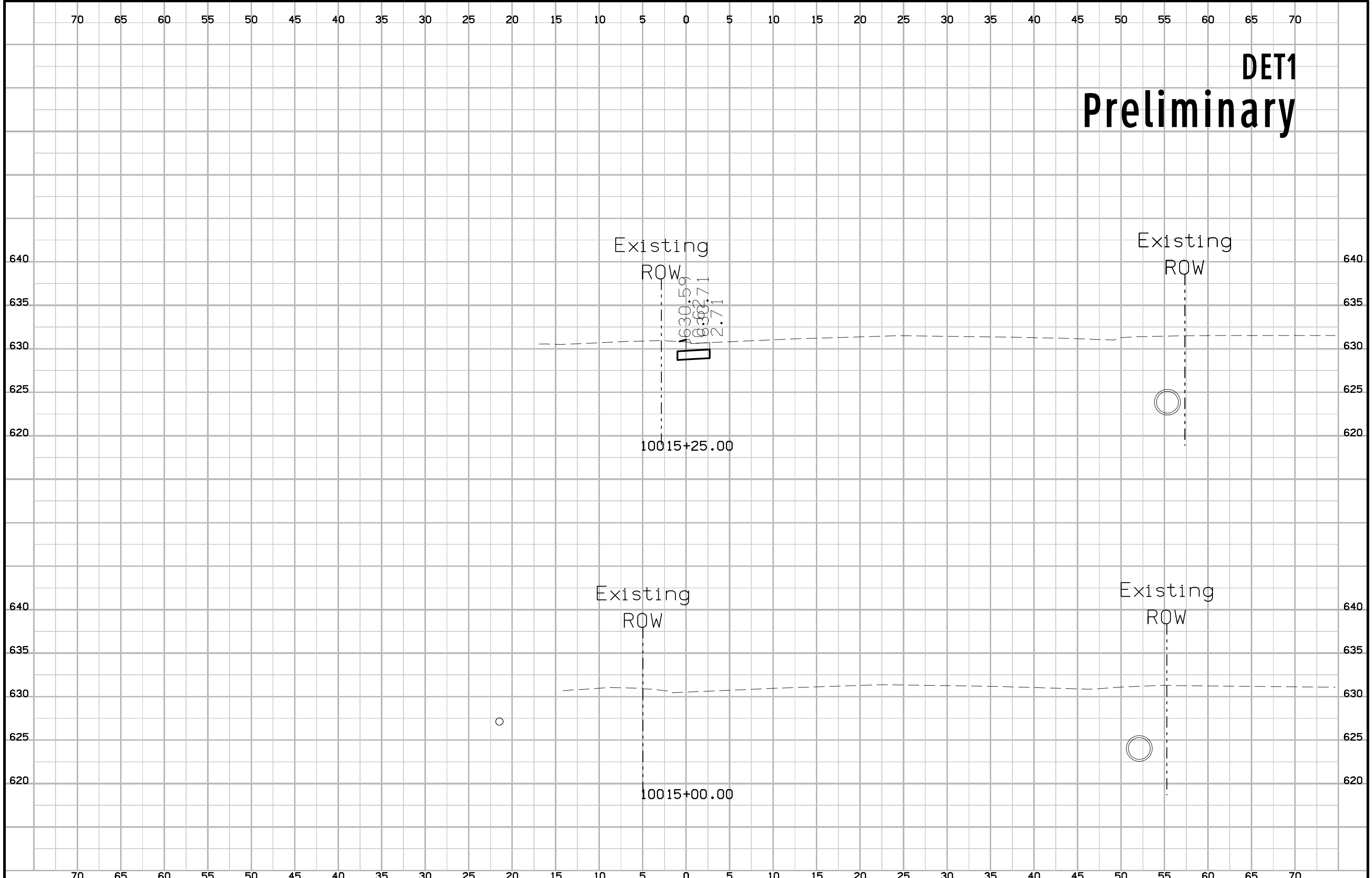




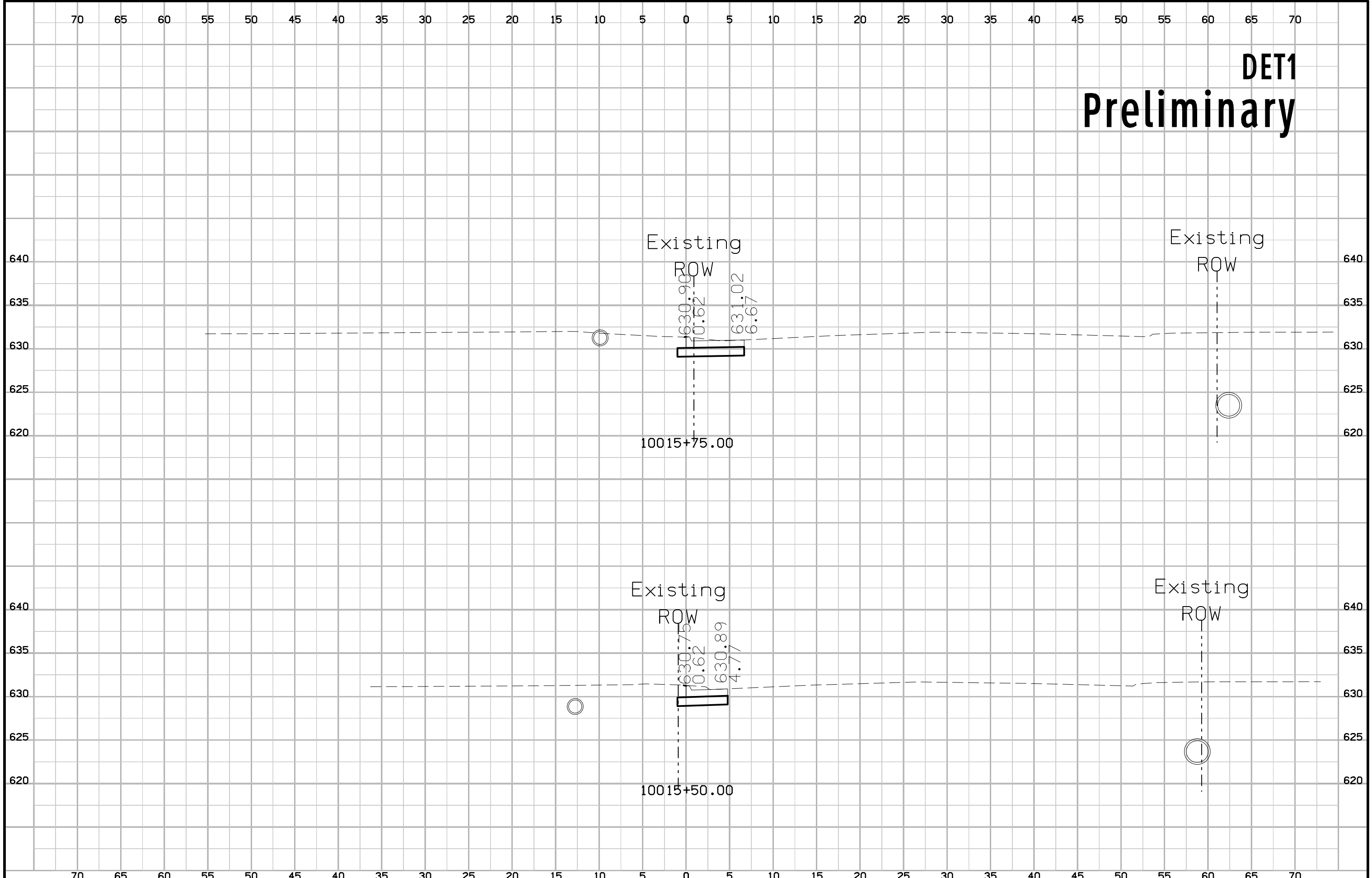
# BP2 Preliminary



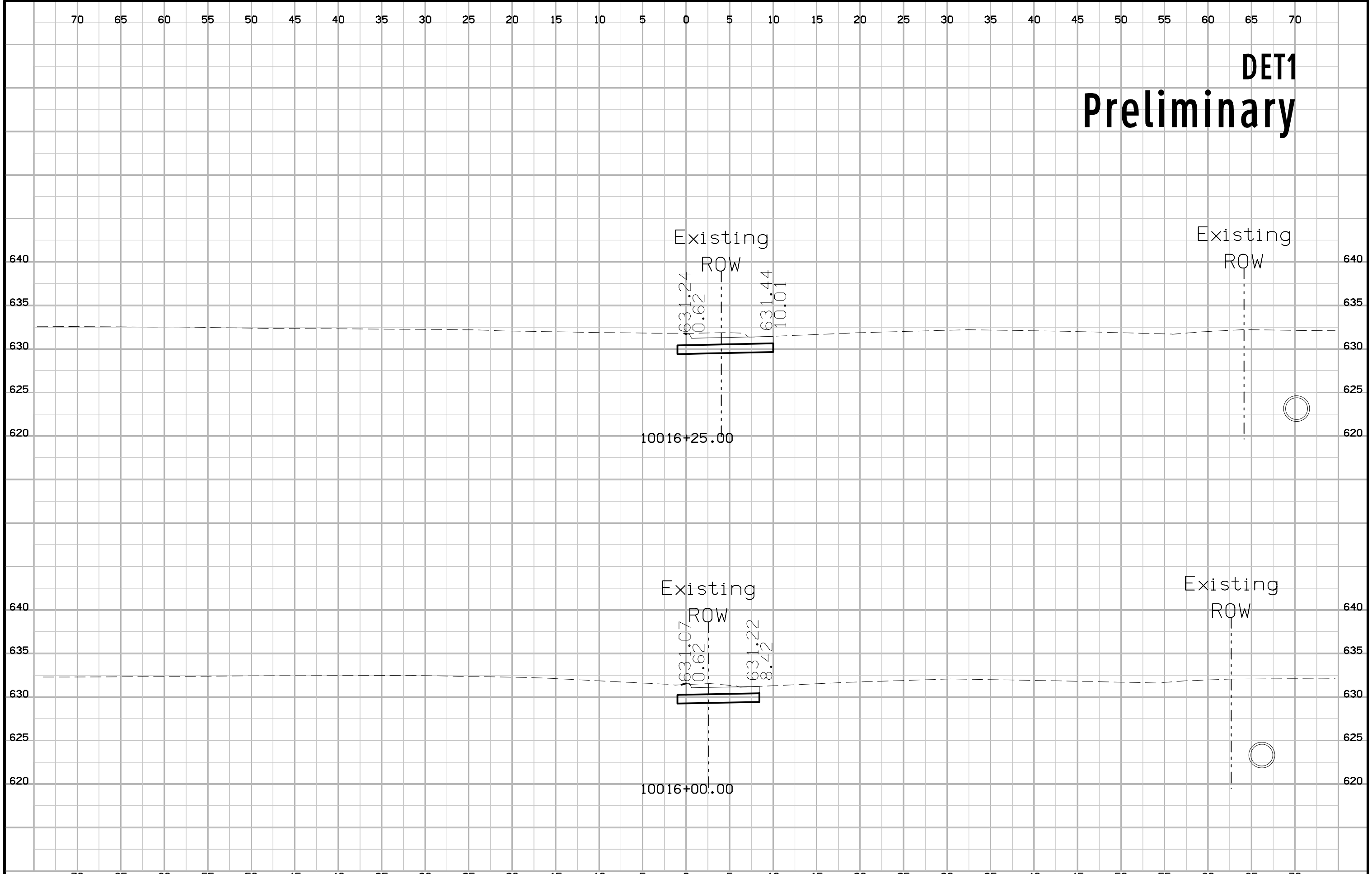
# DET1 Preliminary



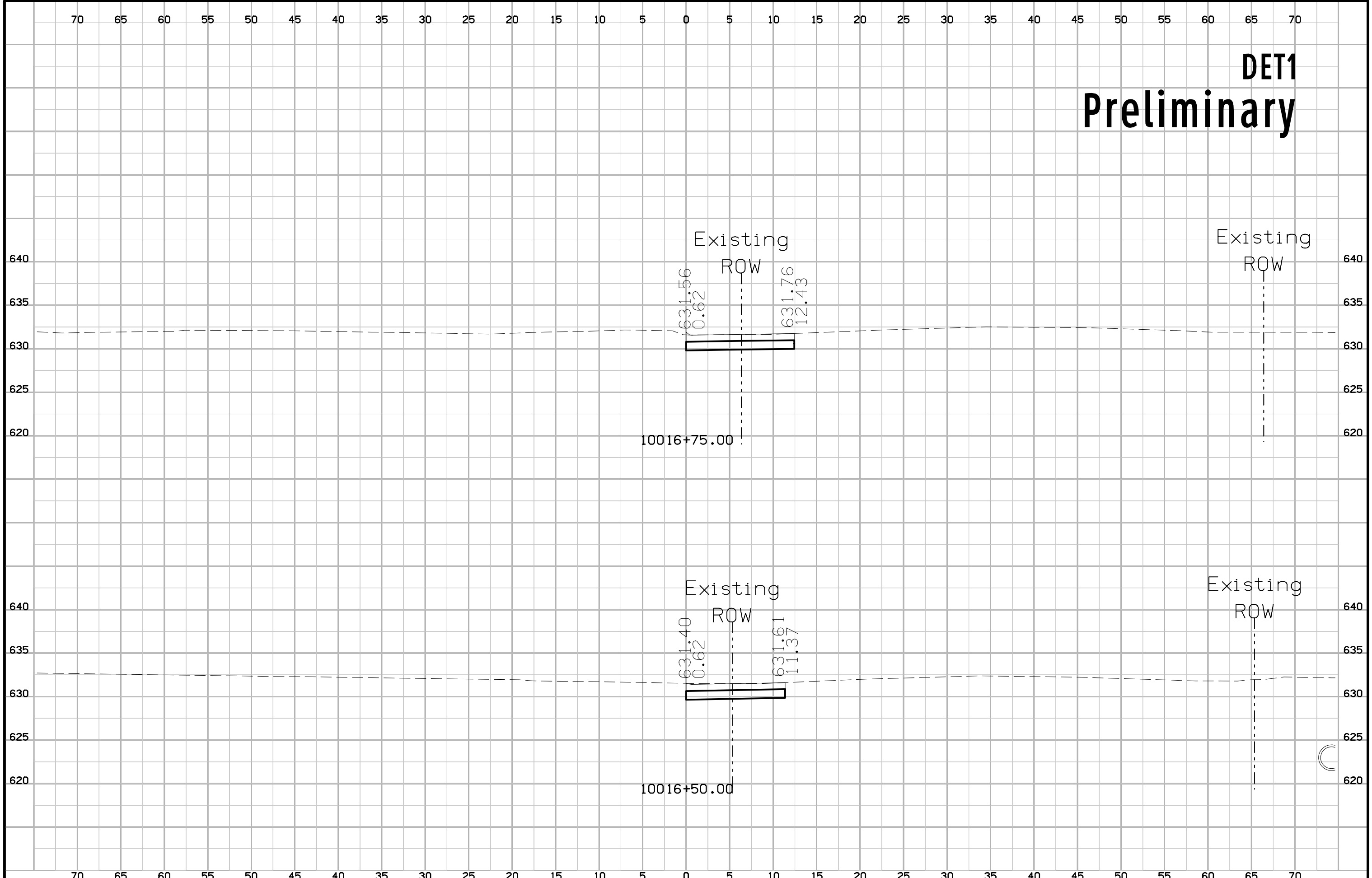
# DET1 Preliminary



# DET1 Preliminary

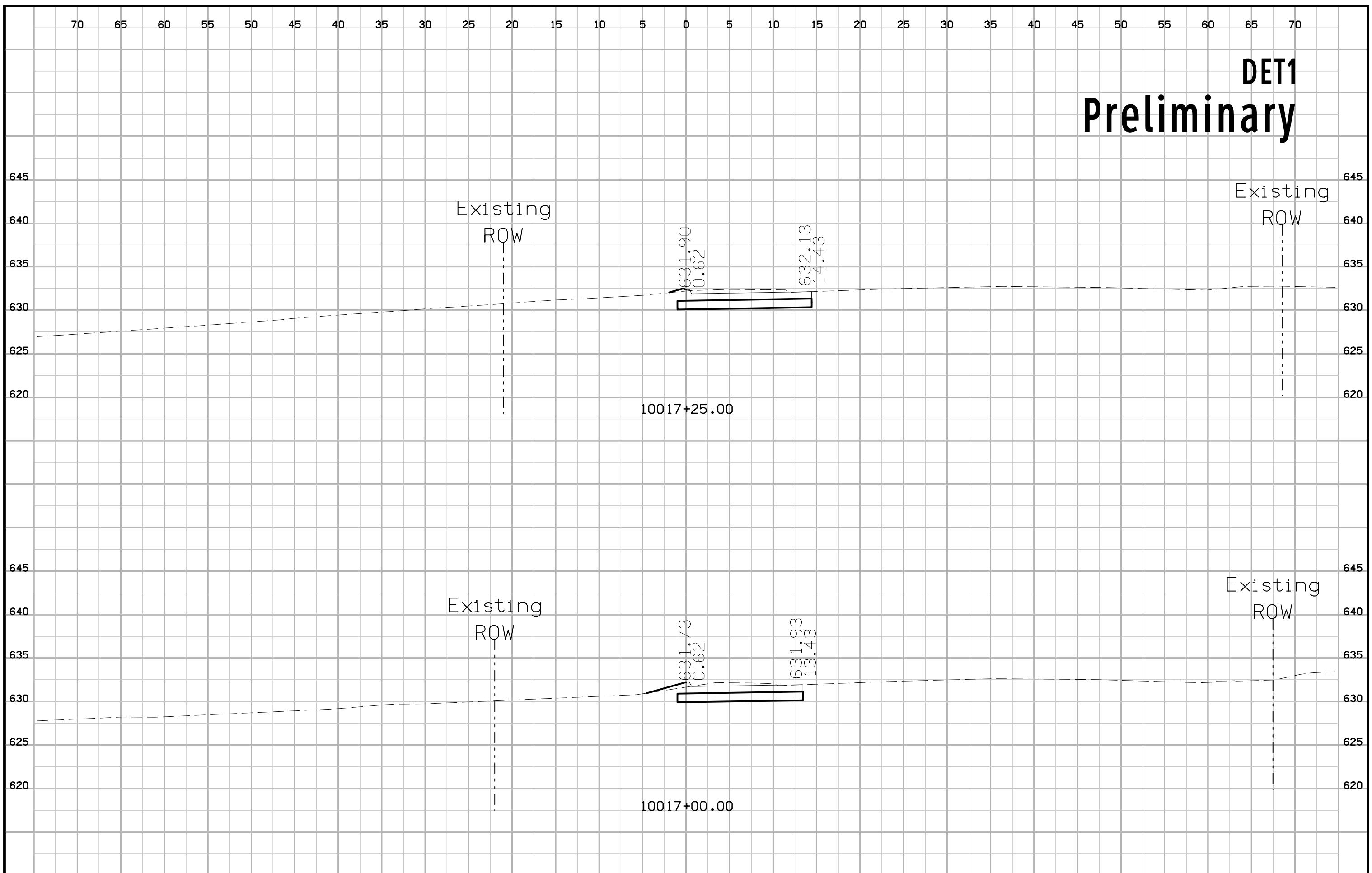


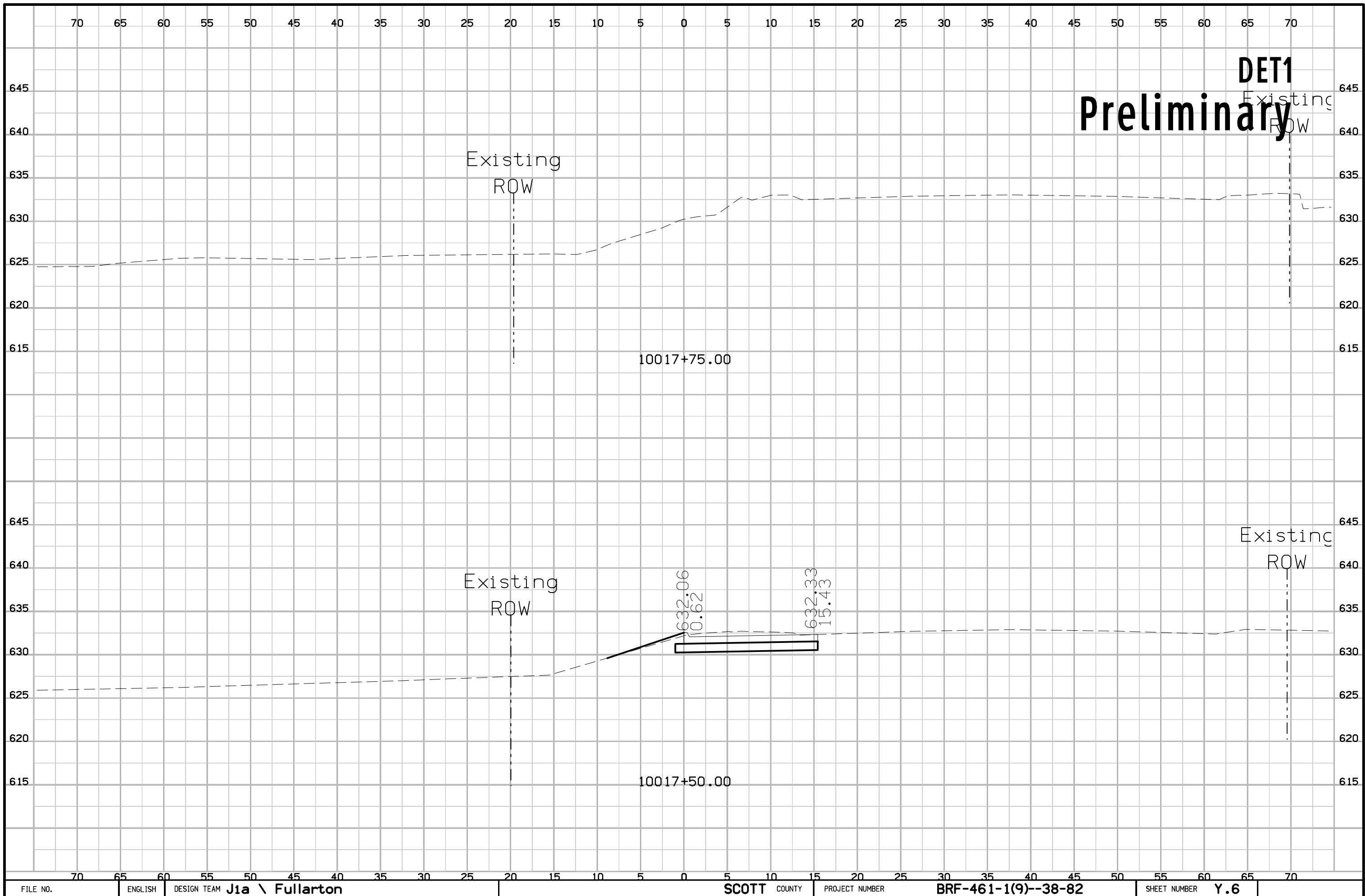
# DET1 Preliminary





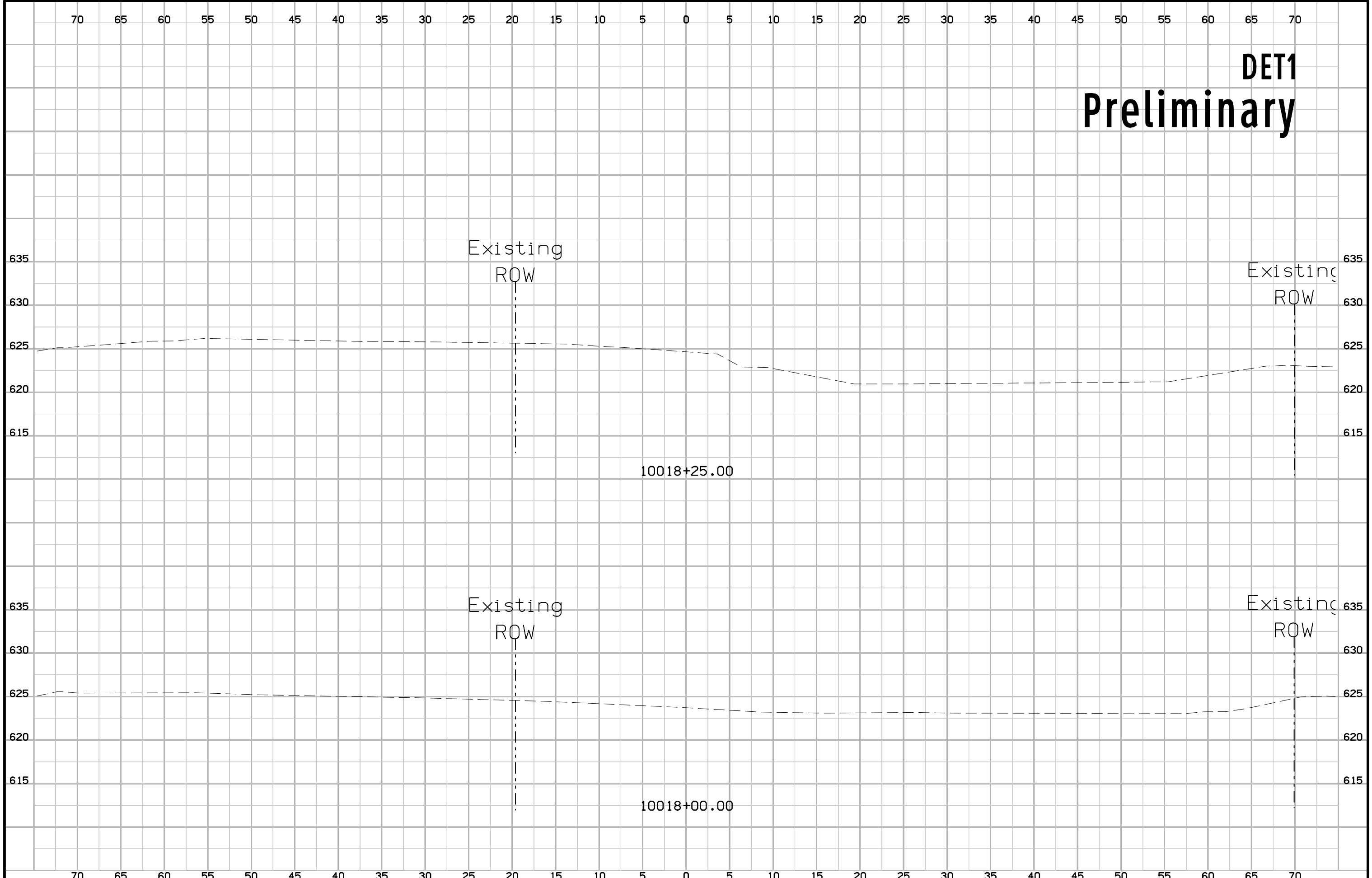
# DET1 Preliminary



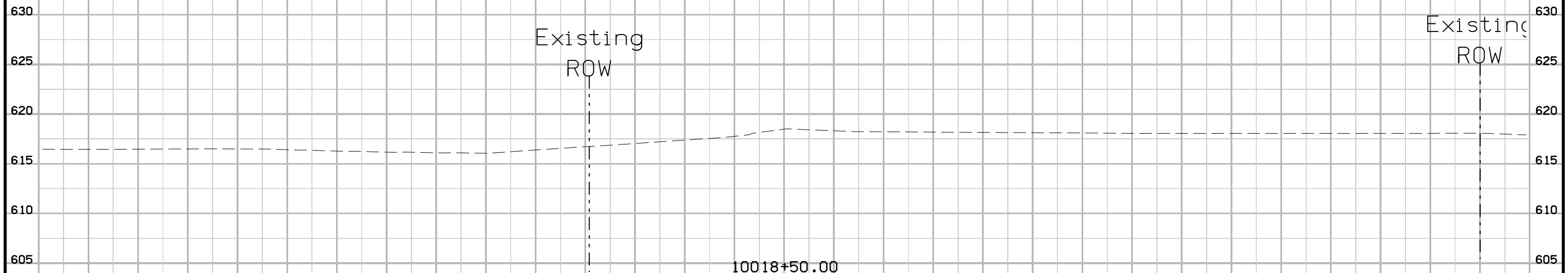
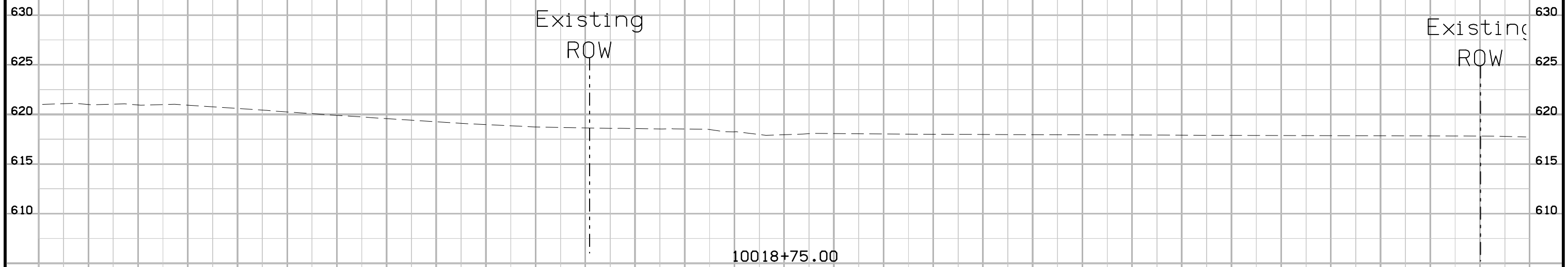


**DET1**  
**Preliminary**

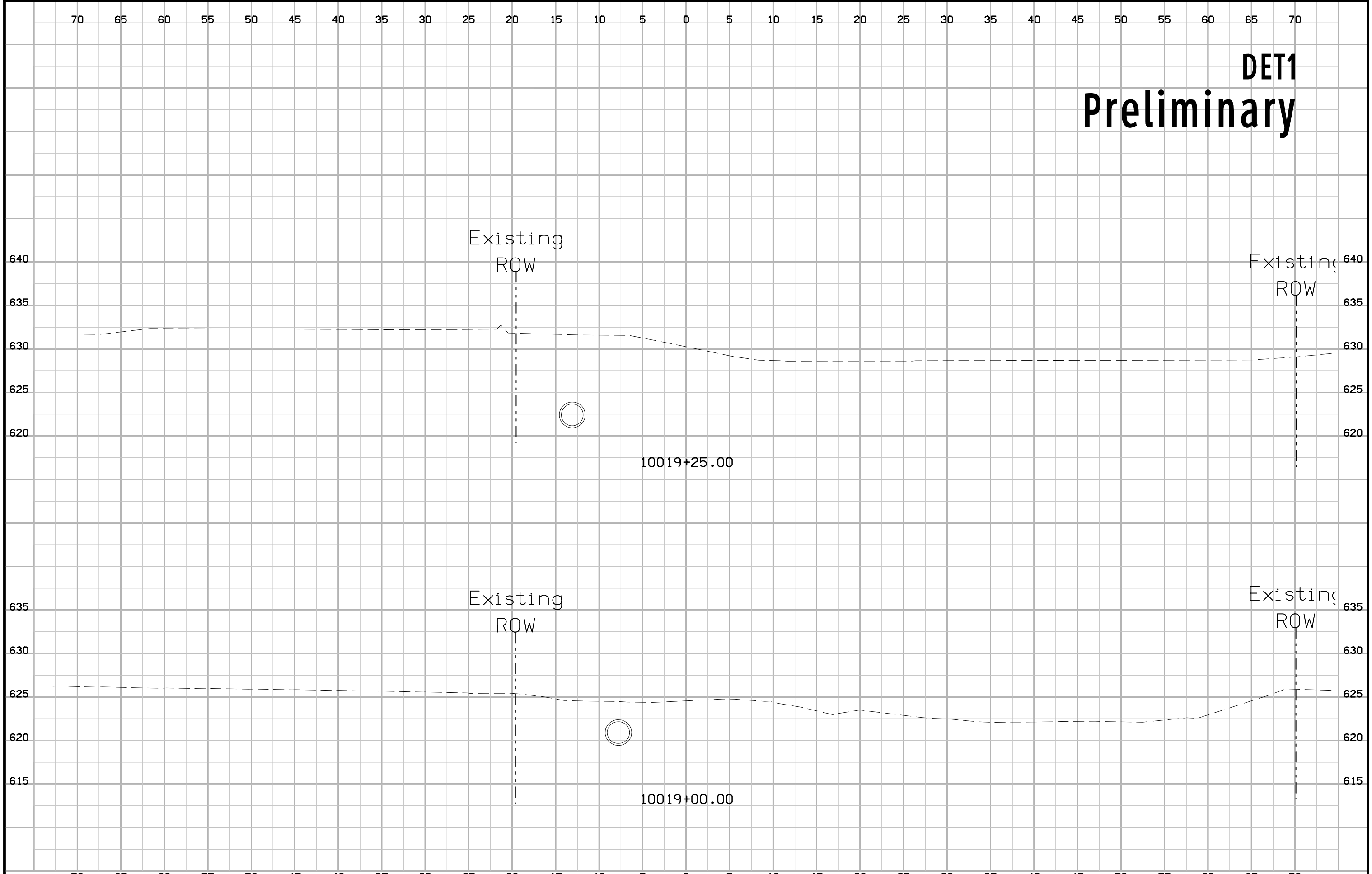
# DET1 Preliminary



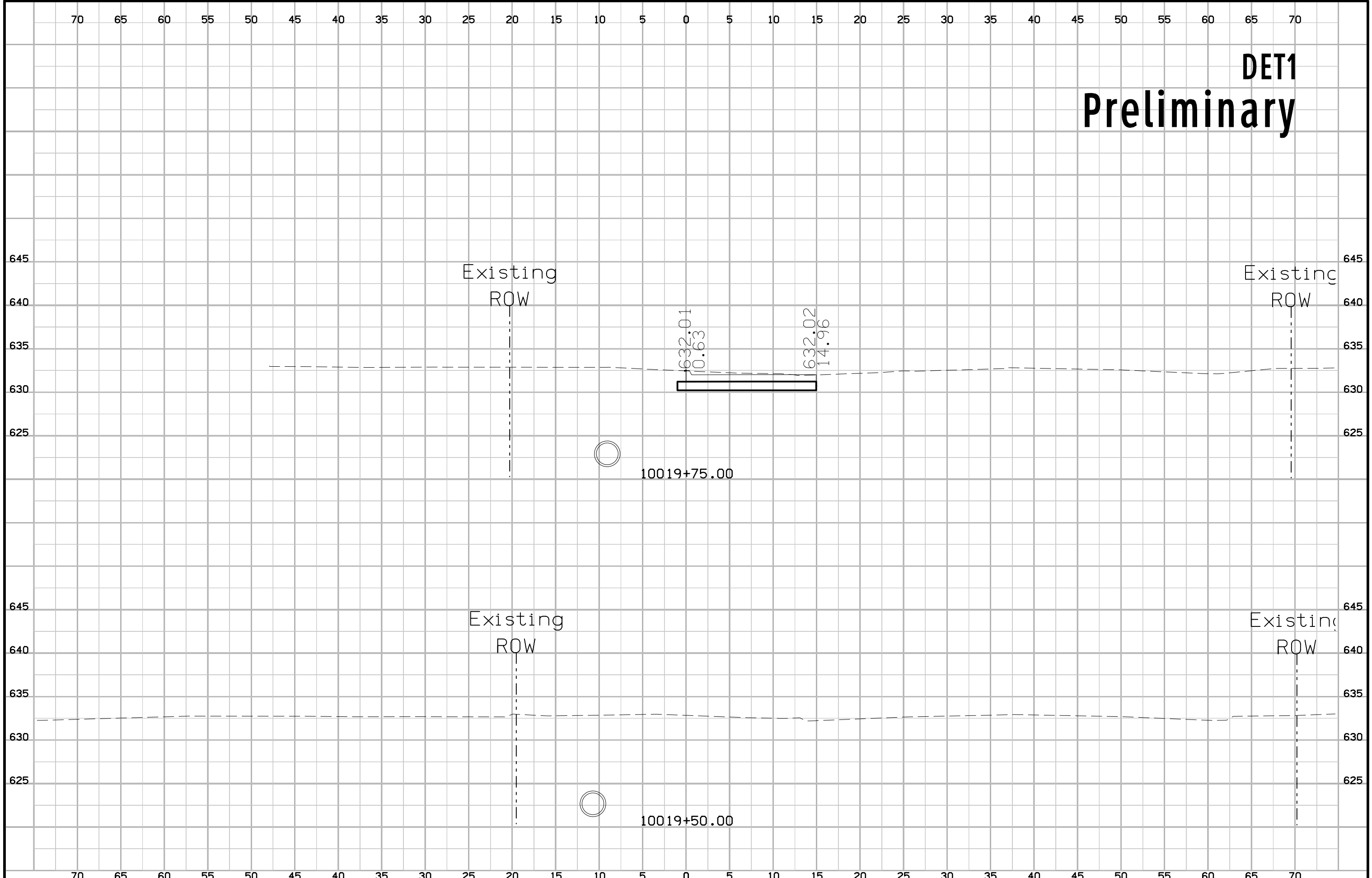
# DET1 Preliminary



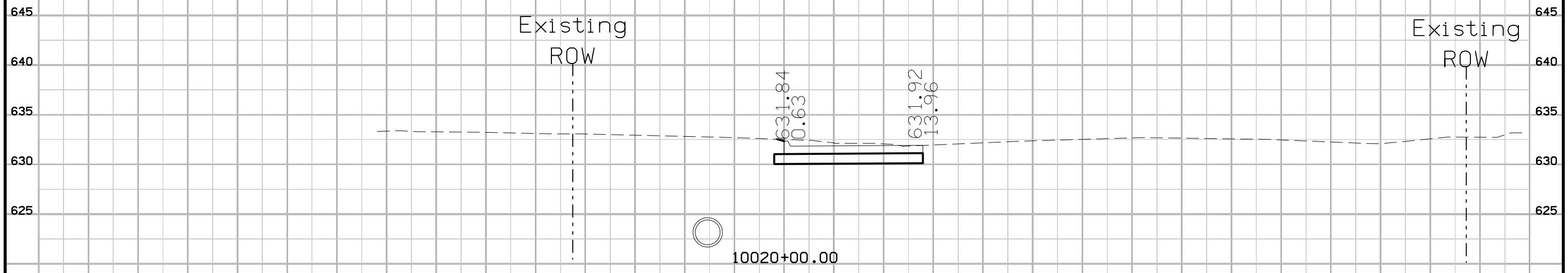
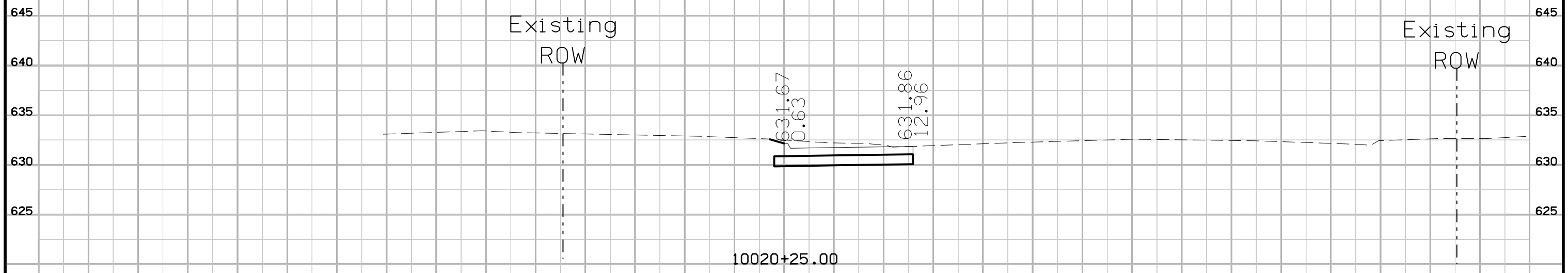
# DET1 Preliminary



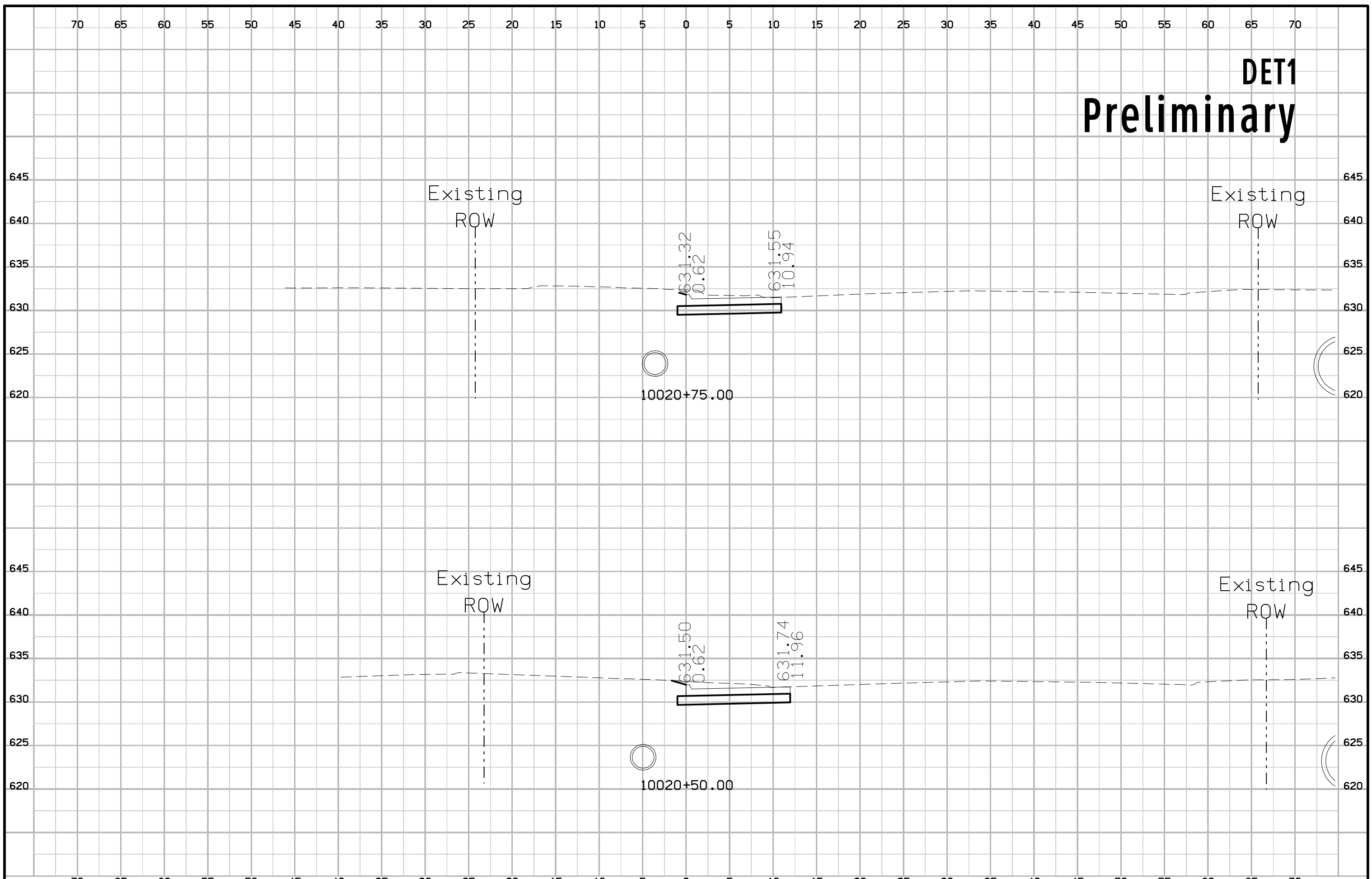
# DET1 Preliminary



# DET1 Preliminary

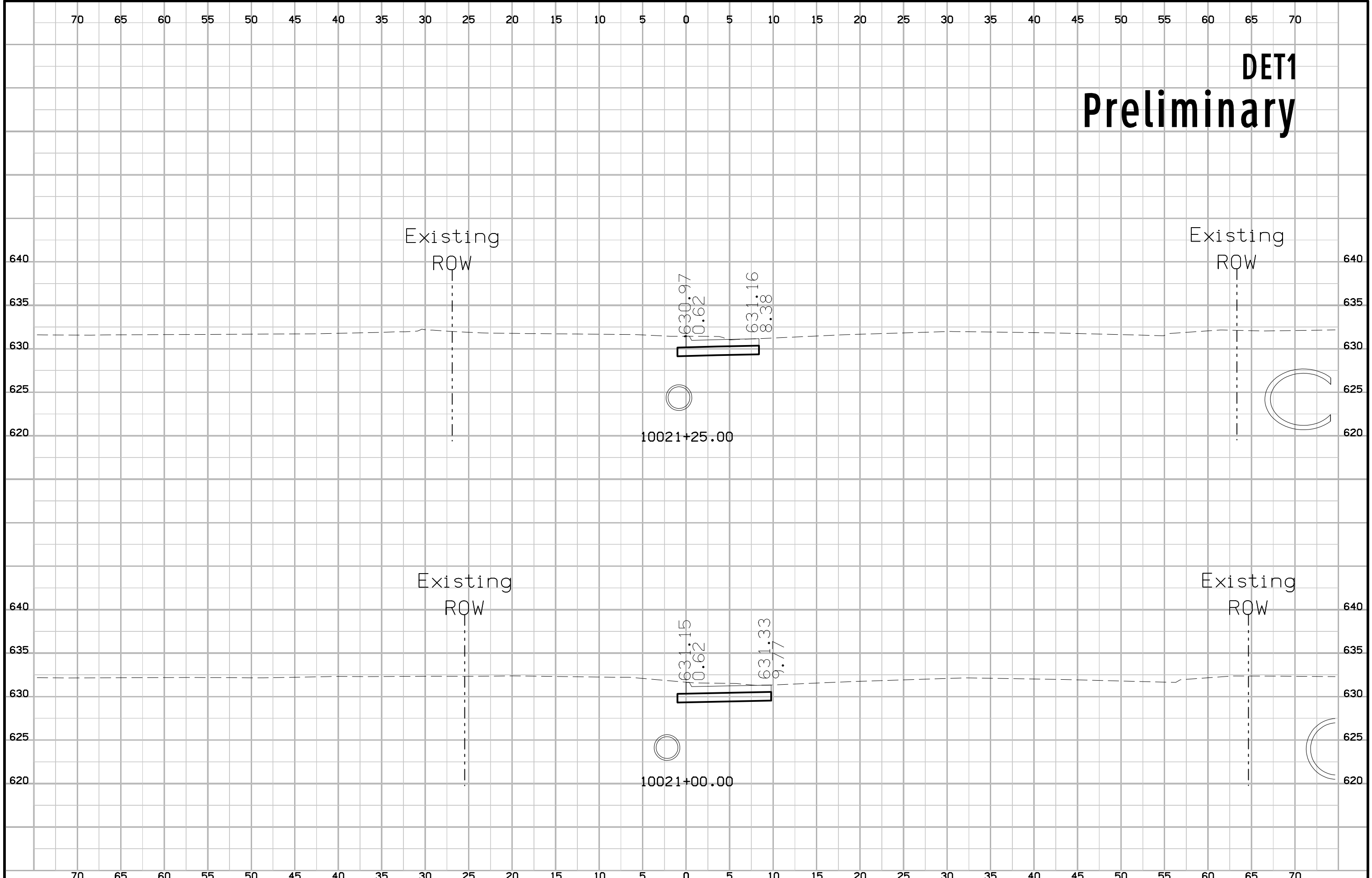


# DET1 Preliminary





# DET1 Preliminary



# DET1 Preliminary

