

APPANOOSE CO.

HMA RESURFACING
STPN-005-1(76)--2J-04

LETTING DATE
06-16-2020



Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
APPANOOSE COUNTY
HMA RESURFACING

County Road J46 to Rock Valley Road

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

57

PROJECT IDENTIFICATION NUMBER

19-04-005-010

PROJECT NUMBER

STPN-005-1(76)--2J-04

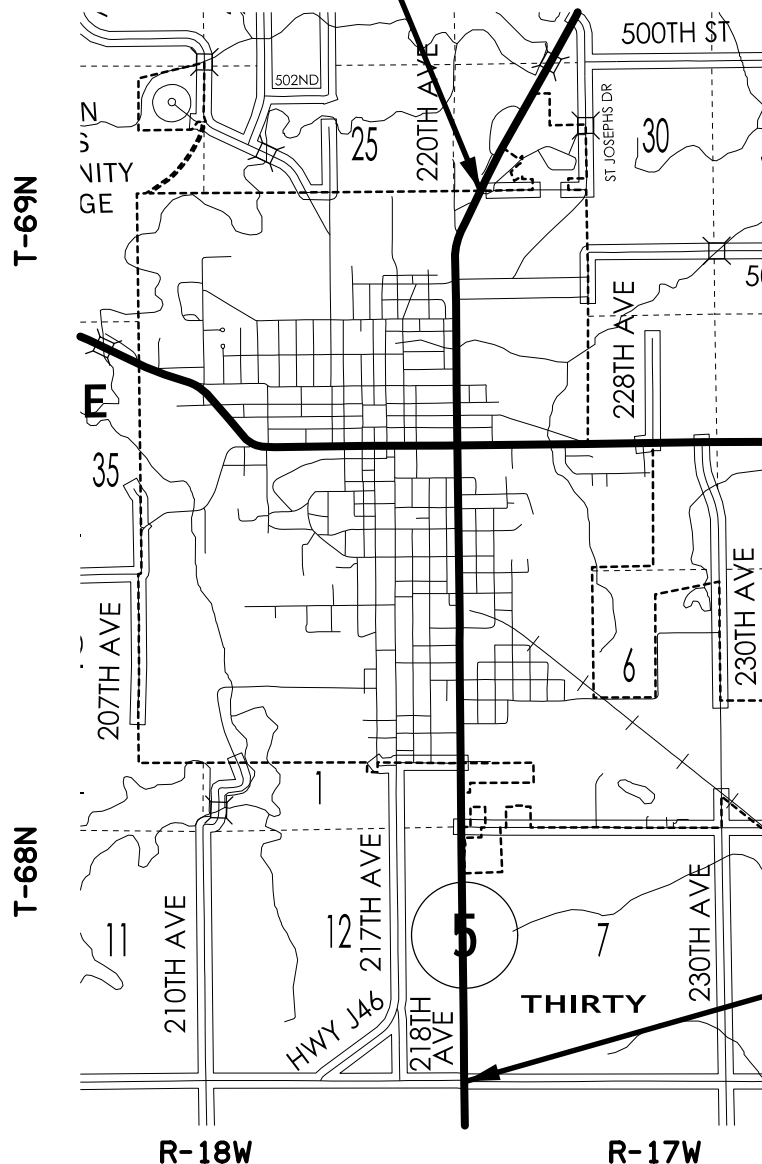
R.O.W. PROJECT NUMBER

STPN-005-1(77)--2J-04

INDEX OF SHEETS

No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
B Sheets	Typical Cross Sections and Details
B.1 - 3	Typical Cross Sections and Details
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan Legend & Symbol Information Sheet
* D.2 - 4	Plan and Profile Sheets
G Sheets	Survey Sheets
G.1 - 3	Survey Information
S Sheets	Sidewalk Sheets
* S .1	Sidewalk Legend & Symbol Information Sheet
* S .2 - 19	Sidewalk Plan Sheets
W Sheets	Mainline Cross Sections
W.1 - 27	Mainline Cross Sections
	* Color Plan Sheets

END PROJECT
MP 14.59



BEGIN PROJECT
MP 11.1

DESIGN DATA

20	AADT		V.P.D.
20	AADT		V.P.D.
20	DHV		V.P.H.
	TRUCKS		%
	Total		
	Design ESALs		

INDEX OF SEALS

SHEET NO.	NAME	TYPE
A.1		Primary Signature Block

PRELIMINARY PLANS

Subject to change by final design.

D2 PLAN - Date: 06-26-2019

FILE NO.

ENGLISH

DESIGN TEAM IadOT\SCHEMMER

APPANOOSE COUNTY

PROJECT NUMBER

STPN-005-1(76)--2J-04

SHEET NUMBER

A.1

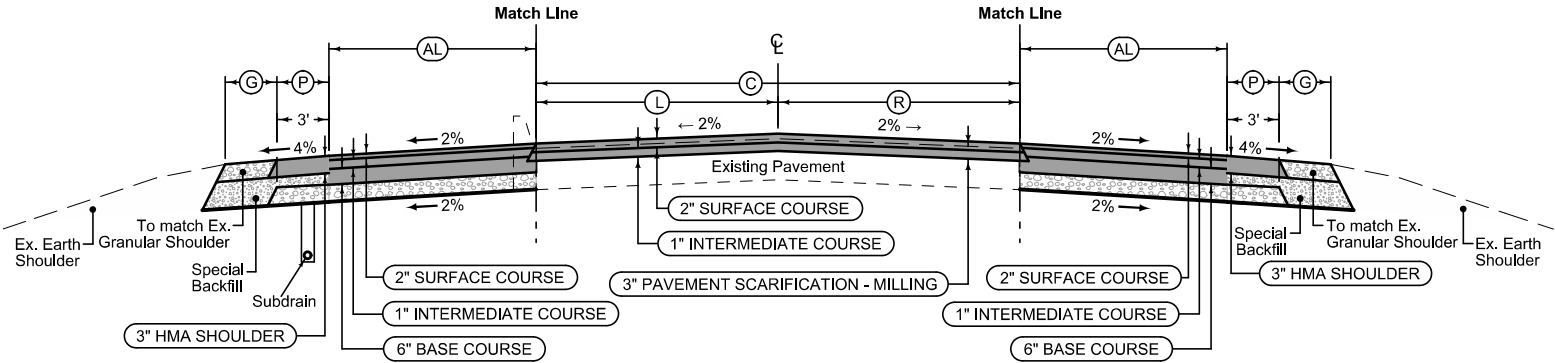
9" HMA Pavement Widening
Longitudinal joint: B

2_AuxLane_HMA_ Modified 06-12-19		
STATION TO STATION		(AL) Feet
730+03.17	735+55.44	2

HMA Pavement Widening
Combination Shoulder

Shoulder Jointing:
Longitudinal joint: B

2_AL_Shldr_C_ Modified 06-12-19		
(P) Feet	(G) Feet	
4	Varies	



3R_MillingOverlay_ 04-19-11					
STATION TO STATION		(C) Feet	(L) Feet	(R) Feet	Pavement Scarification SY
729+00.00	728+02.79	32.00	21.50	10.50	560.45
728+02.79	735+61.33	33.50	22.00	10.50	560.45

9" HMA Pavement Widening
Longitudinal joint: B

2_AuxLane_HMA_ Modified 06-12-19		
STATION TO STATION		(AL) Feet
729+37.27	735+61.33	2

HMA Pavement Widening
Combination Shoulder

Shoulder Jointing:
Longitudinal joint: B

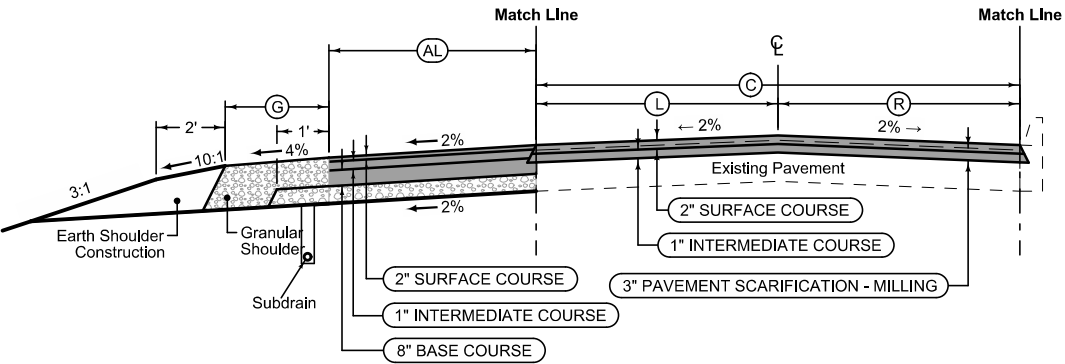
2_AL_Shldr_C_ Modified 06-12-19		
(P) Feet	(G) Feet	
4	Varies	

11" HMA Pavement Widening
Longitudinal joint: B

2_AuxLane_HMA_ Modified 06-12-19		
STATION TO STATION		(AL) Feet
758+40.55	758+90.55	1.8-10.75
758+90.55	794+57.53	10.75

HMA Pavement Widening
Granular Shoulder

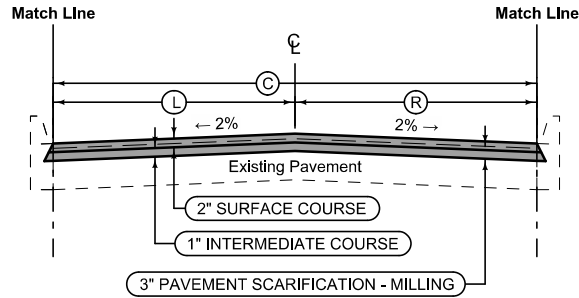
2_AL_Shldr_G_ Modified 6-12-19	
(G) Feet	
2	



3R_MillingOverlay_ 04-19-11					
STATION TO STATION		(C) Feet	(L) Feet	(R) Feet	Pavement Scarification SY
758+40.55	794+57.53	32.75	10.75	22.00	560.45

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

ROADWAY IDENTIFICATION

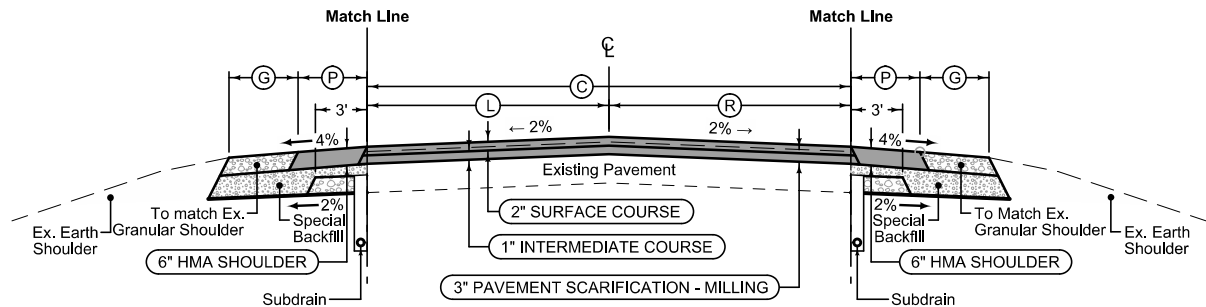


3R_MillingOverlay_ Modified 06-12-19					
STATION TO STATION		Ⓢ	Ⓛ	Ⓡ	Pavement Scarification SY
735+61.33	758+40.55	44.00	22.00	22+00	560.45
794+57.53	859+38.00	44.00	22.00	22.00	eeee
859+38.00	860+11.00	22.00	00.00	22.00	eeee
862+02.00	862+32.00	22.00	22.00	00.00	eeee
862+32.00	900+05.47	44.00	22.00	22.00	eeee

Combination Shoulder

Shoulder Jointing:
Longitudinal joint: B

2_C_ Modified 06-12-19			
STATION TO STATION		Ⓟ Feet	ⓖ Feet
900+22.56	901+39.62	4	Varies
901+68.40	902+70.71	4	Varies
903+45.53	904+52.49	4	Varies
905+68.09	911+44.90	4	Varies
912+64.89	912+90.58	4	Varies



3R_MillingOverlay_ 04-19-11					
STATION TO STATION		Ⓢ Feet	Ⓛ Feet	Ⓡ Feet	Pavement Scarification SY
900+05.47	902+72.20	44 - 24	22 - 12	22 - 12	eeee
902+72.20	912+90.58	24.00	12.00	12.00	tttttt

Combination Shoulder

Shoulder Jointing:
Longitudinal joint: B

2_C_ Modified 06-12-19			
STATION TO STATION		Ⓟ Feet	ⓖ Feet
900+05.47	902+63.35	4	Varies
903+15.95	905+99.86	4	Varies
906+71.33	907+50.06	4	Varies
909+51.70	912+90.58	4	Varies

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

ROADWAY IDENTIFICATION

SURVEY SYMBOLS

UTILITY LEGEND

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

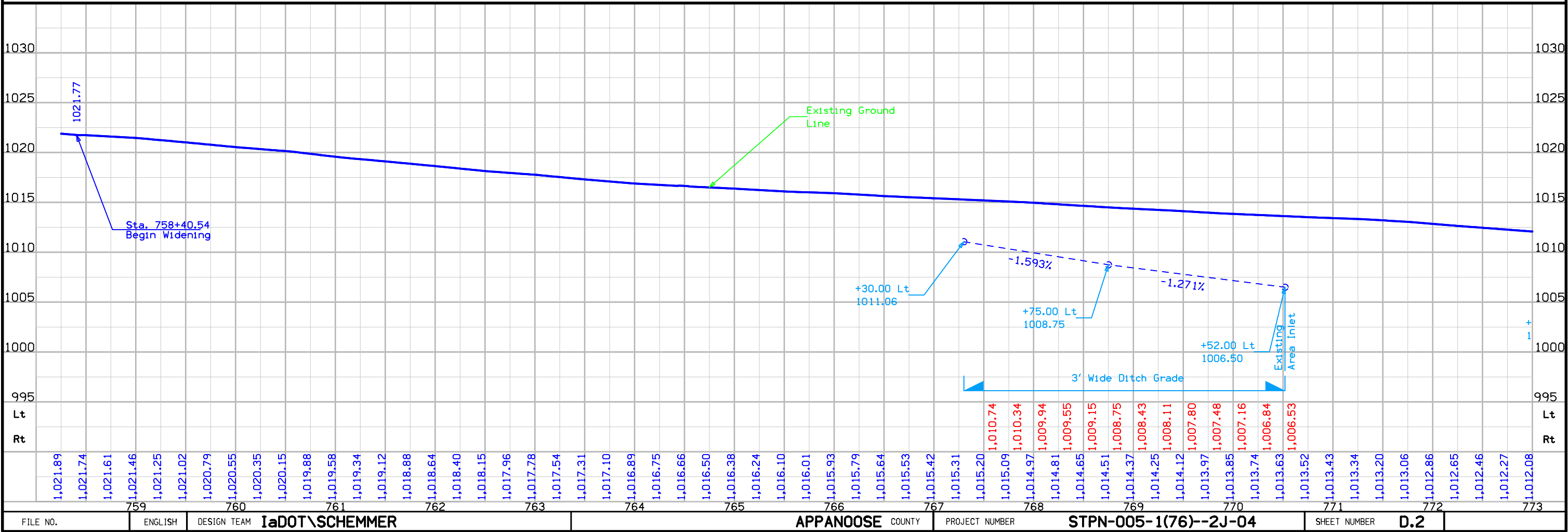
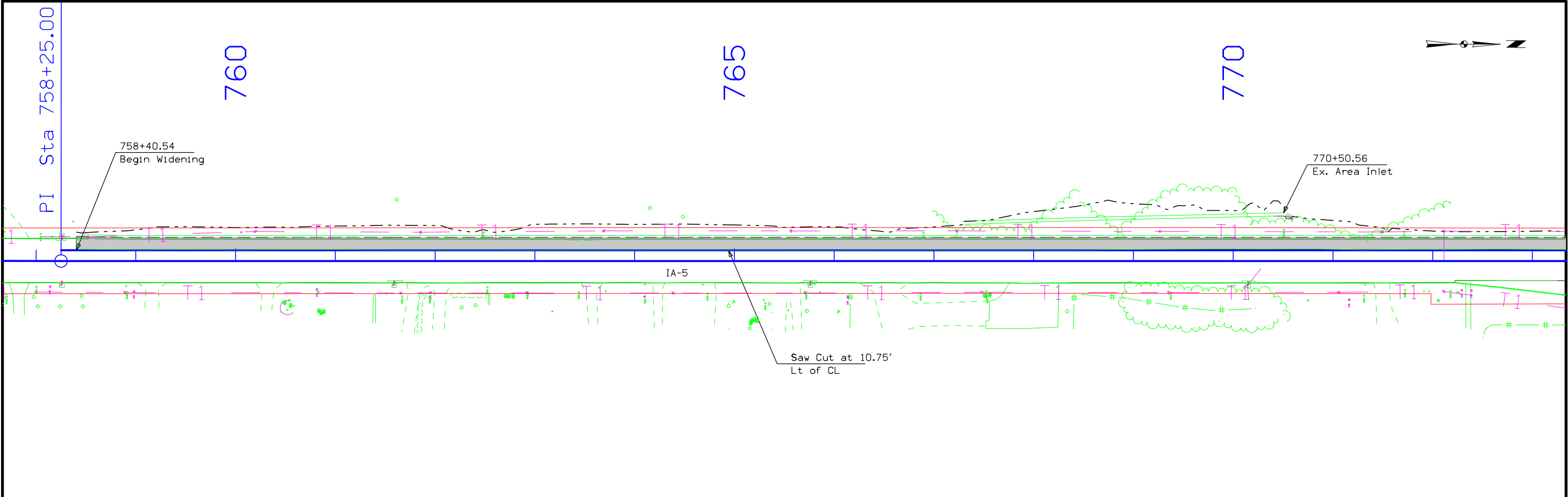
LINEWORK	Design	Color	No.	
Green	(2)		Existing	Ground Line Profile
Blue	(1)		Proposed	Profile and Annotation
Magenta	(5)		Existing	Utilities
Blue, Light	(230)		Proposed	Ditch Grades, Left
Black	(0)		Proposed	Ditch Grades, Median
Rust	(14)		Proposed	Ditch Grades, Right

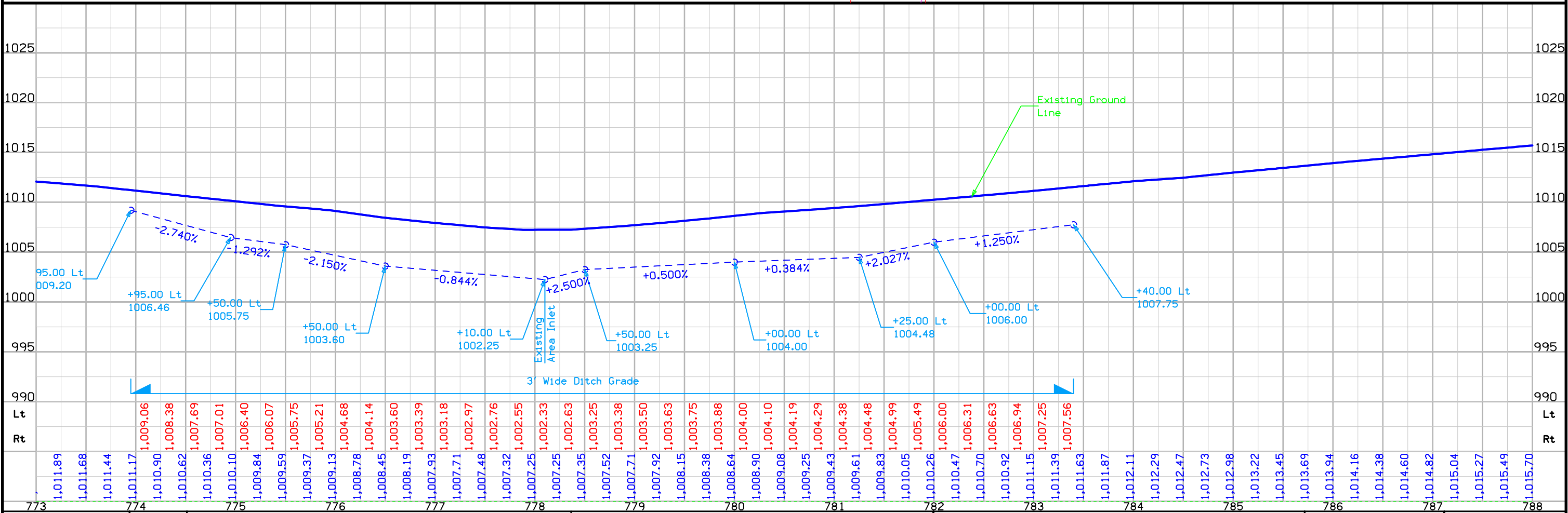
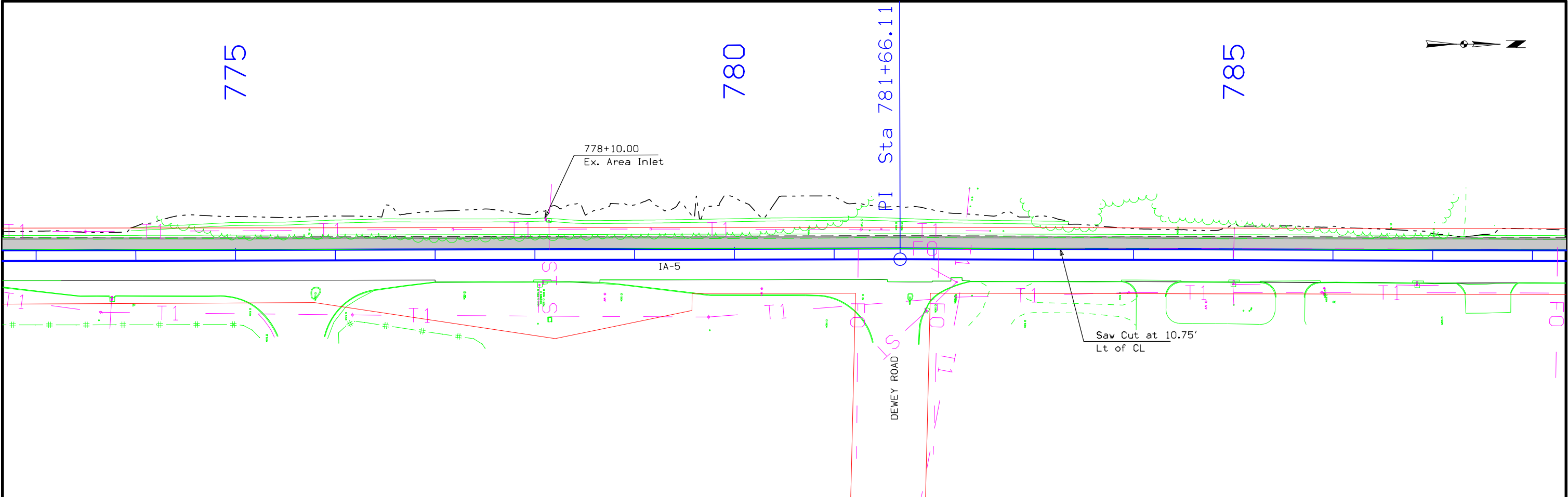
	Reference Point		Station		Survey Line
	Section Corner		Ground Line Intercept		Saw Cut
	Guardrail		Trench Drain		HighTension Cable Guardrail
	Sheet Pile		Pavement Removal		Clearing & Grubbing Area

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

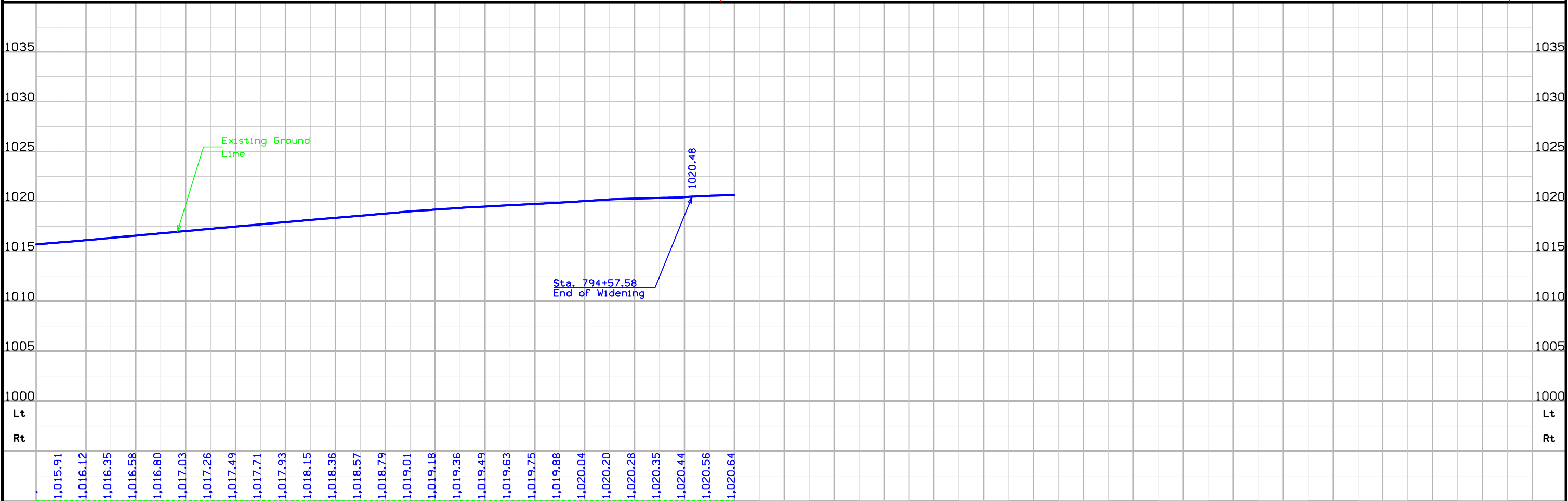
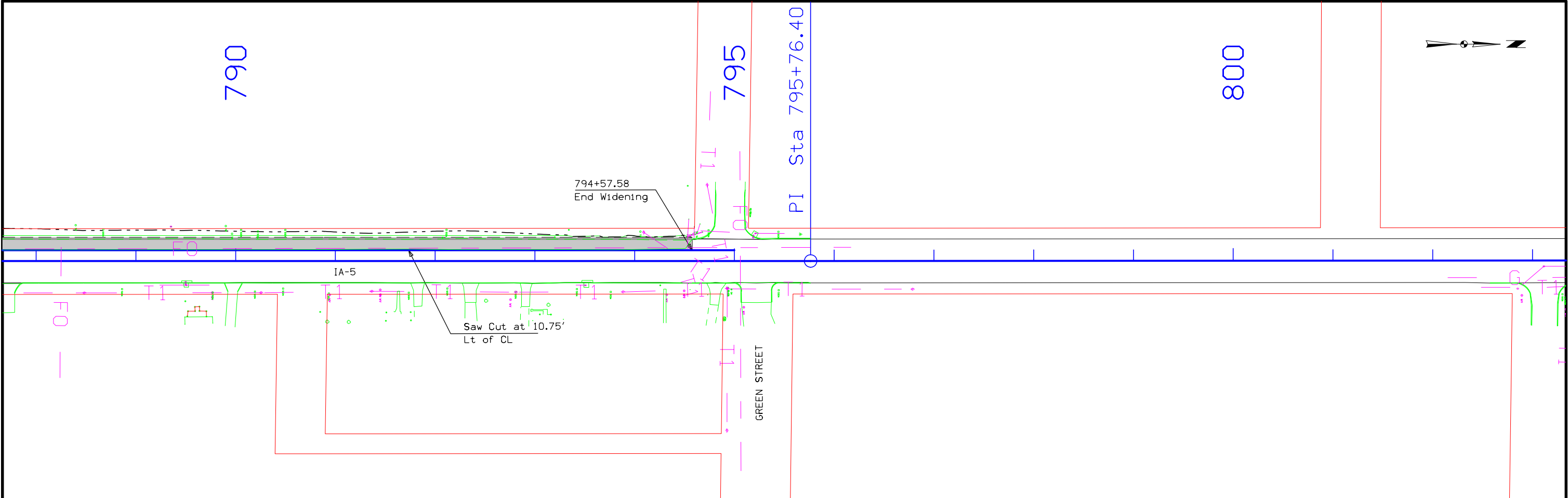
PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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





FILE NO.	ENGLISH	DESIGN TEAM	APPANOOSE COUNTY	PROJECT NUMBER	SHEET NUMBER
		IaDOT\SCHEMMER		STPN-005-1(76)--2J-04	D.3



FILE NO.	ENGLISH	DESIGN TEAM	IaDOT\SCHEMMER	APPANOOSE COUNTY	PROJECT NUMBER	STPN-005-1(76)--2J-04	SHEET NUMBER	D.4
----------	---------	-------------	----------------	------------------	----------------	-----------------------	--------------	-----

Survey Information

Appanoose County
STPN-005 1(77) --2J-04
STPN-005 1 (76) --2J-04
Road Design Including ADA, Row and T01 Co Rd J46 to NCL Centerville
PIN 19-04-005-010

General Information

Measurement units are in US survey feet. This survey is for proposed ADA Design of County Road J46 to NCL Centerville. Project control information was established by Schemmer Associates Inc. The project is a Topographic survey of area for the use in design for ADA ramps and TOI. This survey request was for County Road J46 to NCL Centerville.

Vertical Control

Vertical datum for this survey is NAVD88 (Computed using GEOID 12B). Project Point #99 was established observing a 60 second observation in RTK from nearby Iowa RTN reference stations. Additional benchmarks were established with a level loop relative to point #99. The loop error met 3rd order accuracy and the error was distributed proportionately among the project benchmarks.

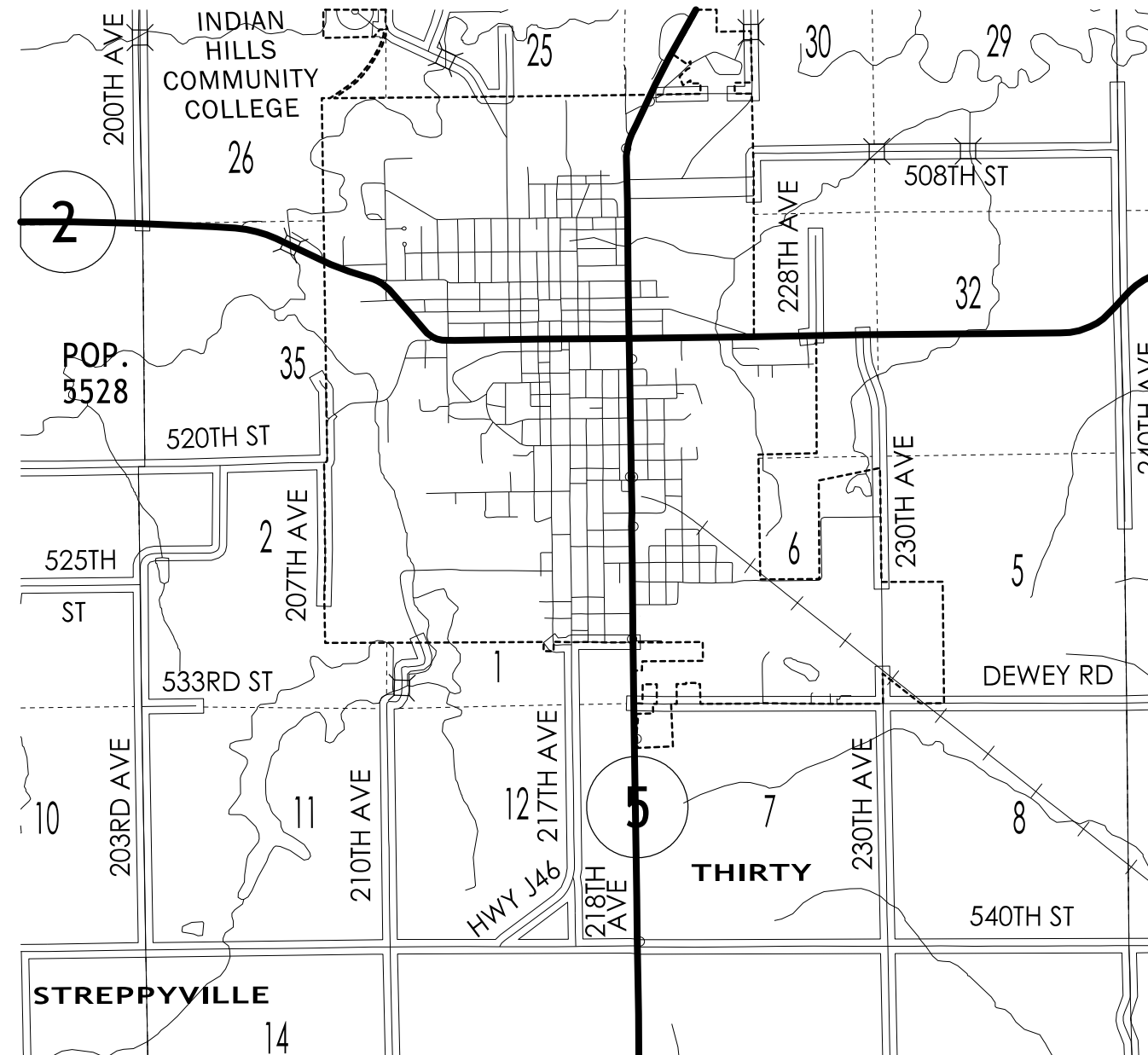
Horizontal Control

The project coordinate system for this survey is LDP Regional Coordinate System Zone 12. This survey is relative to the LDP Regional Coordinate System Zone 12. Coordinates were established by observing 60 second observation on Project Point #99. Additional control points were placed throughout the project by using LDP Regional Coordinate System Zone 12 with an observation at each point for 60 seconds. Axis scale factor for LDP Zone 12 is 1.000037. Scale factor for use of total station should be 1.

- CP Control Point
- EP Edge of Paved Roads (ML or SR)
- - - - - ENU Edge Unpaved Entrance & Parking
- C Centerline BL of Road (ML or SR)
- ⊗ MH Utility Access (Manhole)
- ⊕ TPC Telephone Pole Co. 3
- ⊙ TA TA Tower Anchor
- SIGN SI Sign
- GR Ground Shot
- ⊙ MIS Miscellaneous
- BL Topo Breakline
- ROW Right of Way Mark
- EG Edge of Gravel Road
- ⊙ TP TPD Telephone Pedestal
- ⌘ FHD Fire Hydrants
- PIP Pipe Culvert
- SIGN SL Speed Limit Sign
- RET Retaining Walls
- ENP Edge Paved Entrance & Park Lot
- ⊙ WV WW Water Valve
- UV Underground Utility Vault
- FO1D Fiber Optic Co. 1 - Quality D
- RIP Rip-Rap
- ⊠ IN Storm Sewer Intake
- ☼ TDC Tree Deciduous
- CU Back of Curb
- GU Gutter In Front of Curb
- CON Concrete or A/C Slab
- BLD Building or Foundation
- LC Lot Corner
- EL1D Electric Line Co. 1 - Quality D
- ⊗ INB Storm Sewer Beehive Intake
- SWK Sidewalk
- FCL Chain Link and Security Fence
- ⊙ Flg FLG Flag Poles
- ⊗ SHR Shrub
- ⊙ WHU WHU RV Water Hook Up
- ⌘ WEL Well
- — — SNP Unpaved Shoulder
- ⊙ OUT Tile Outlet
- HDG Hedge Row
- ⊗ LUM Luminaire
- ⌘ STP Stump
- TLNL Tree Line Left
- SP Stream Profile
- TLNR Tree Line Right
- ✱ TEV Evergreen Tree
- ⊙ MM MM Mile Marker Post
- CUL Culvert
- ⊙ TVP TVP TV Pedestal
- ⊙ GV GV Gas Valve
- - - - - ENT Centerline BL of Entrance
- ☼ TFR Tree Fruit
- TL1D Telephone Line Co. 1 - Quality D
- WL1D Water Line Co. 1 - Quality D
- ⊙ WH WHD Water Hydrant
- ▭ S Soil Sampling Site (Wetlands)
- WC Wild Card (Misc. Field Shot)
- GL1D Gas Line Co. 1 - Quality D
- TCB TCB Traffic Signal Box
- EB EB Electrical Box
- ⊗ TSG Traffic Signal
- UE Utility Elevation

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 12

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 12

Point Name	Northing	Easting	Elevation	Feature Definition
91	6131129.438	22744542.751	1008.60	CP 5/8" REBAR NE COR WALSH ST & HWY 5
92	6131134.260	22744478.326	1009.15	CP MAG NAIL NW COR WALSH ST & HWY 5
93	6139290.786	22744911.433	980.62	CP 5/8" REBAR
94	6138266.586	22744395.330	990.55	CP 5/8' REBAR IN FRNT OF SONIC
95	6133690.837	22744527.032	971.57	CP 5/8" REBAR
96	6130054.473	22744552.242	1014.75	CP 5/8" REBAR
97	6127607.538	22744523.142	1021.26	CP 5/8" REBAR NW COR GREEN ST & HWY 5
98	6125440.245	22744621.284	1010.52	CP 5/8" REBAR IN TURN LANE ON E SIDE OF HWY 5
99	6121039.402	22744693.927	1021.72	CP 5/8" REBAR

SURVEY SYMBOLS

UTILITY LEGEND

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.	
Tan	(8)		Proposed Sidewalk Shading
Blue, Light	(230)		Proposed Sidewalk Landing Shading
Pink	(11)		Proposed Sidewalk Ramp Shading
Magenta	(5)		Detectable Warning
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
Brown, Light	(236)		Grading Shading

Reference Point

Station

Survey Line

Section Corner

Ground Line Intercept

Saw Cut

Guardrail

Clearing & Grubbing Area

Pavement Removal

RIGHT-OF-WAY LEGEND

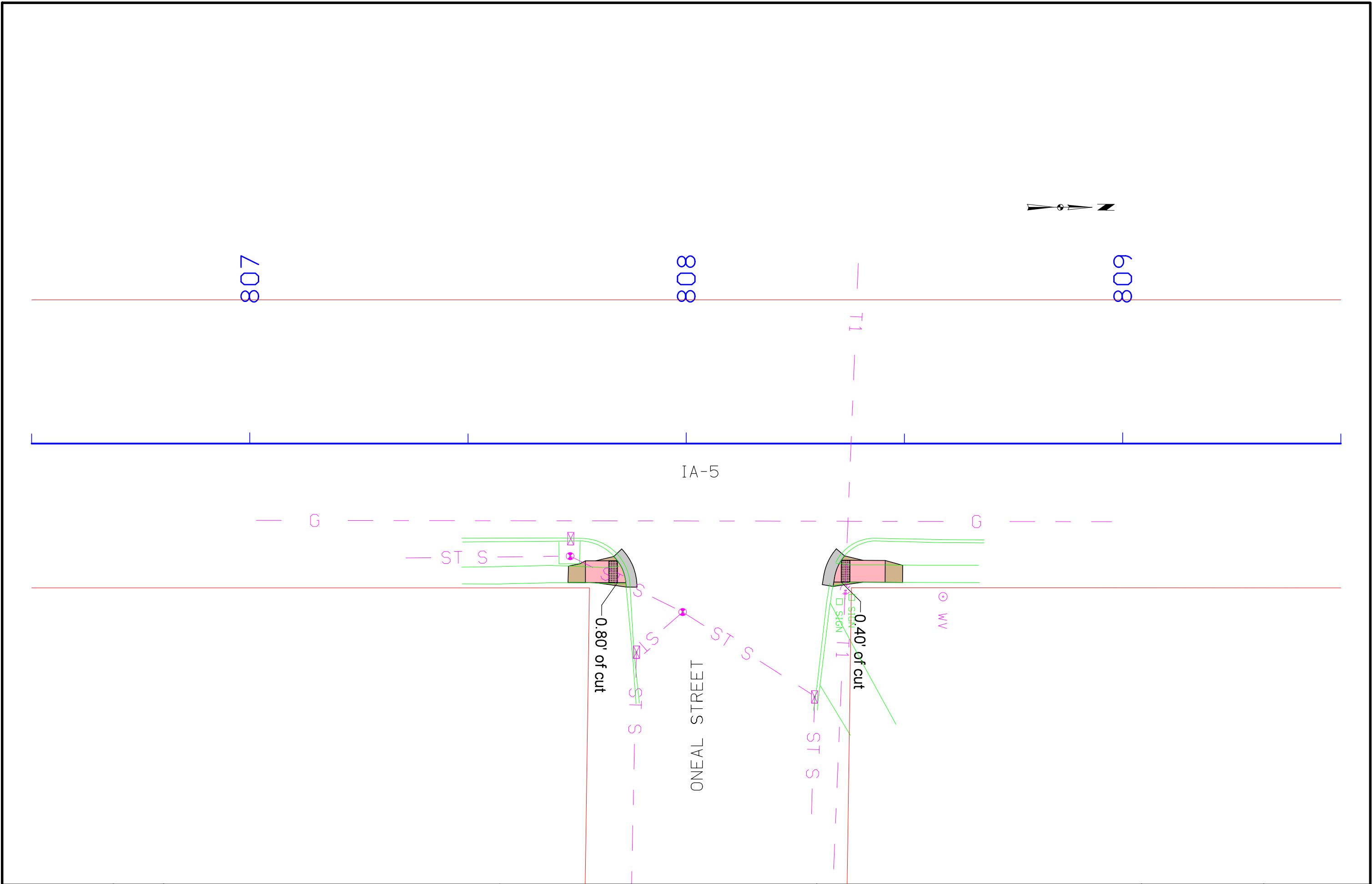
- Proposed Right-of-Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Borrow
- Easement (Temporary)
- Easement
- X

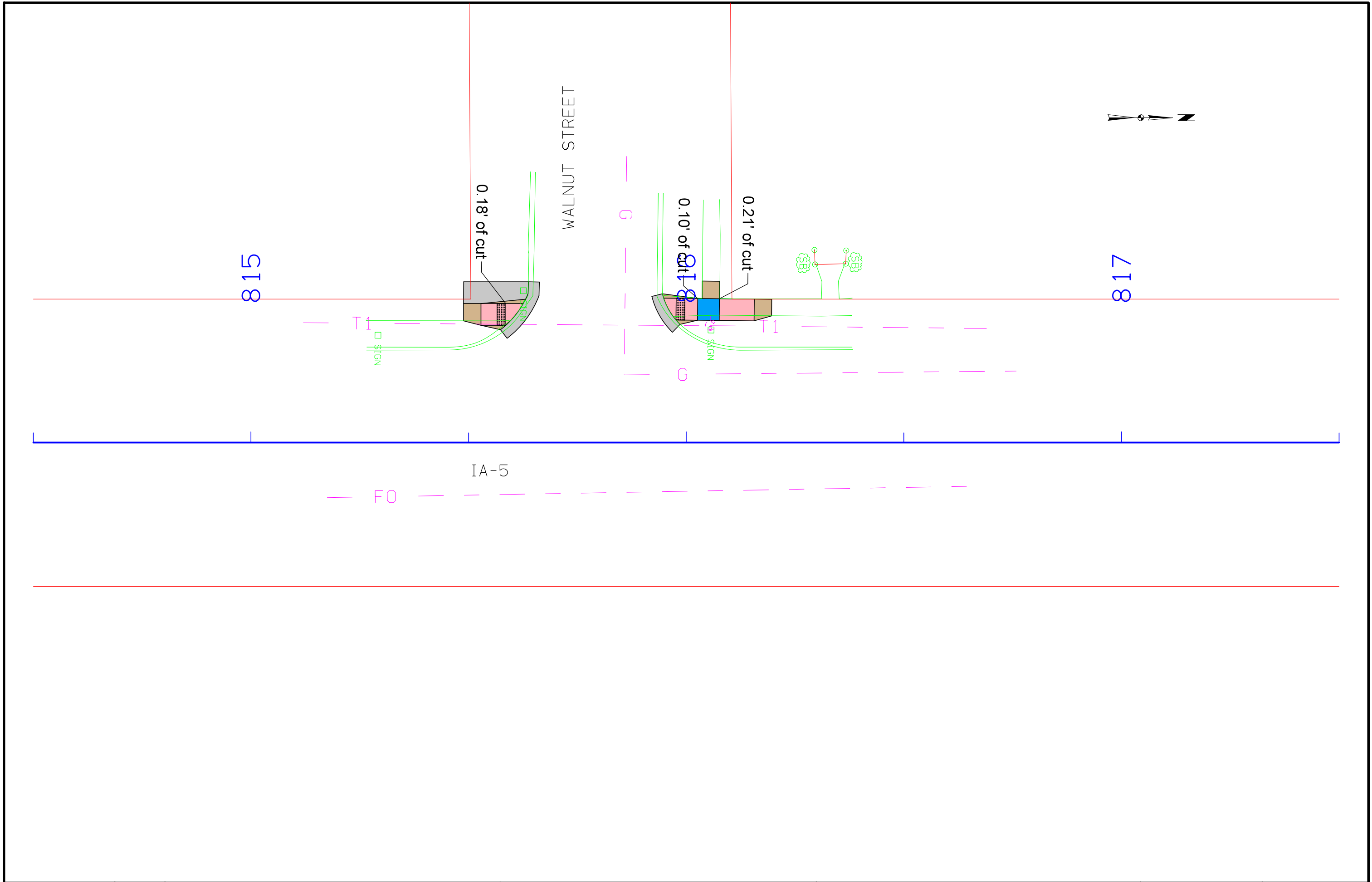
Excess
- A/C

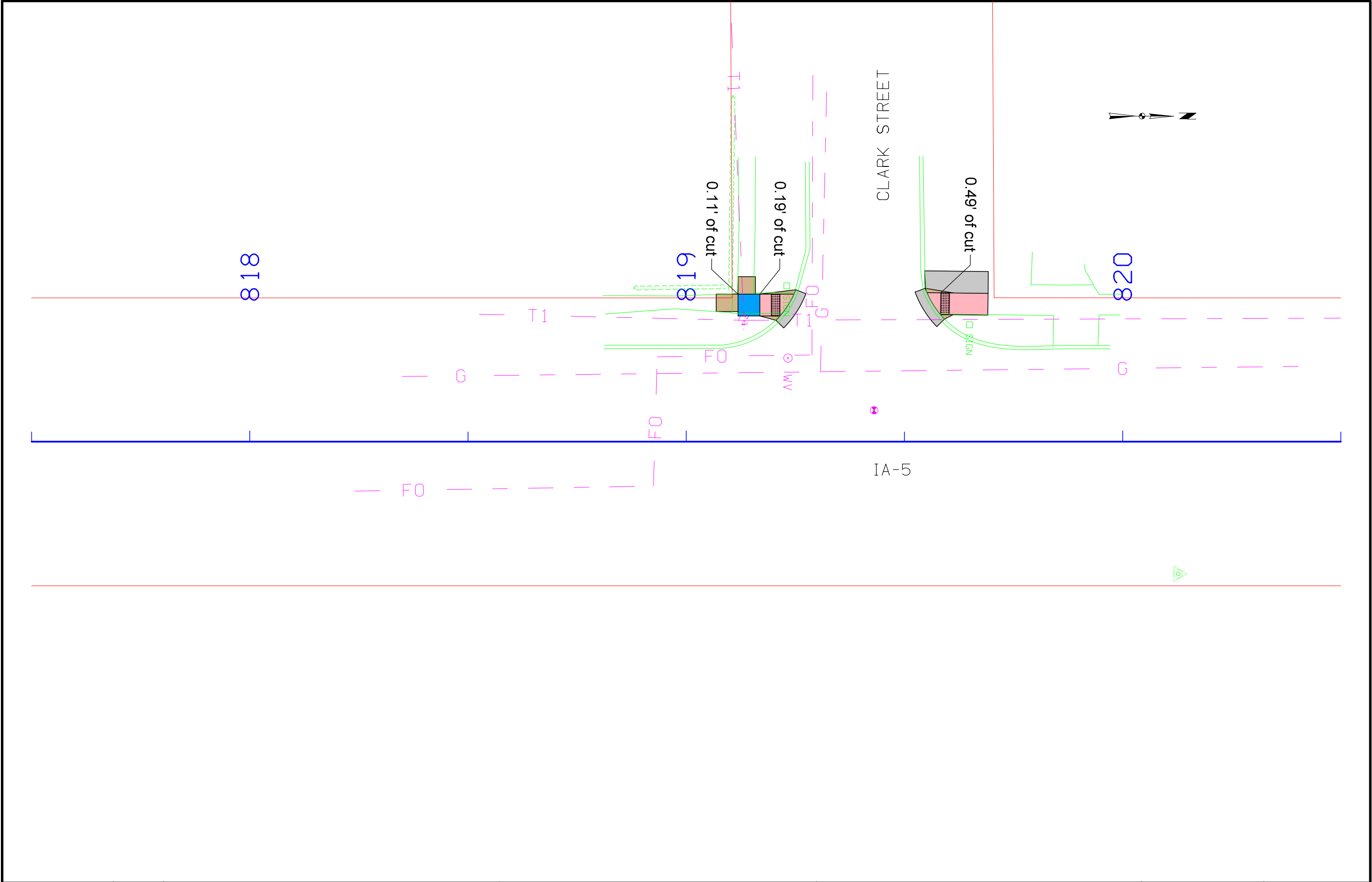
Access Control

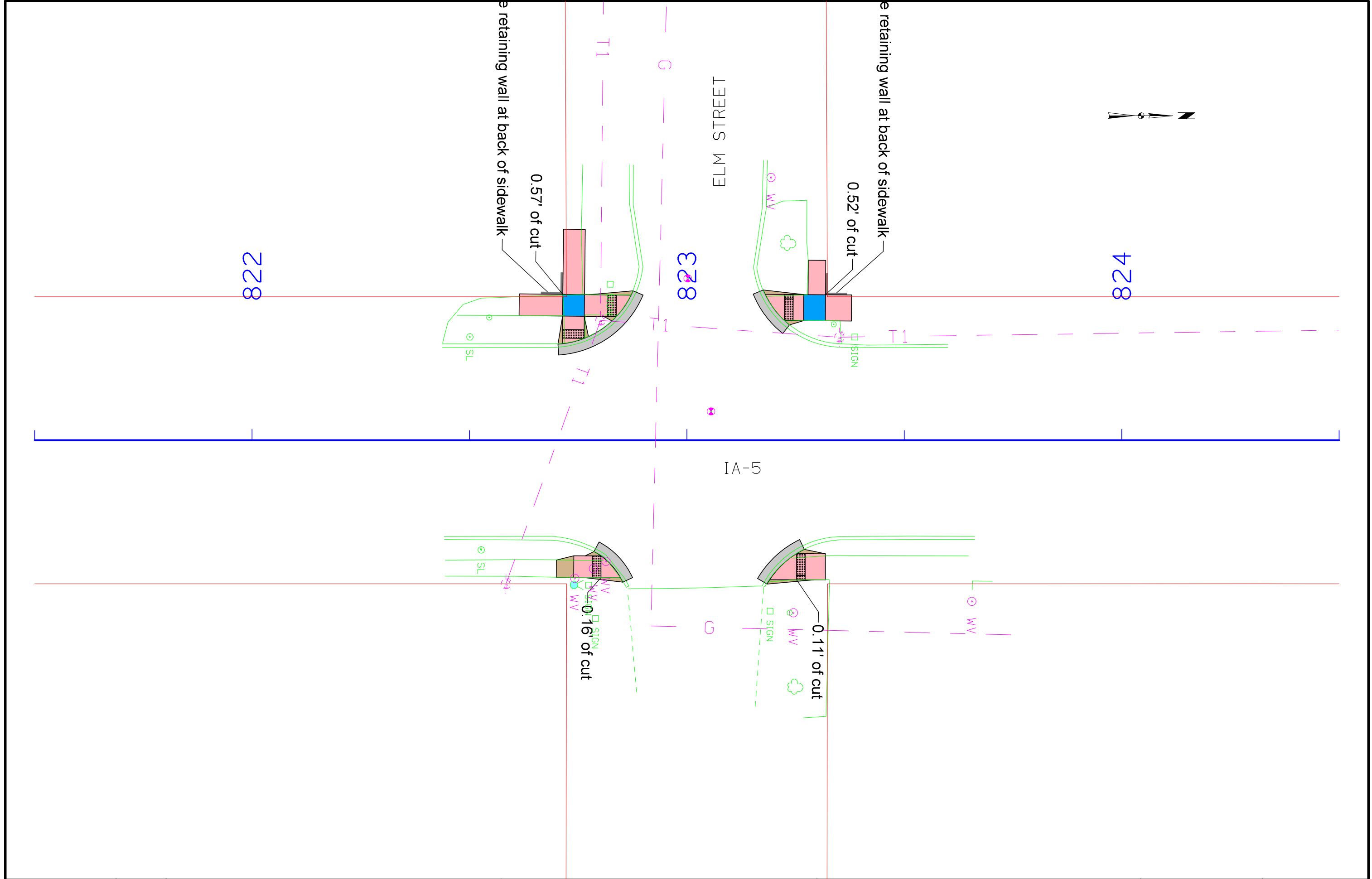
SIDEWALK
LEGEND AND SYMBOL
INFORMATION SHEET

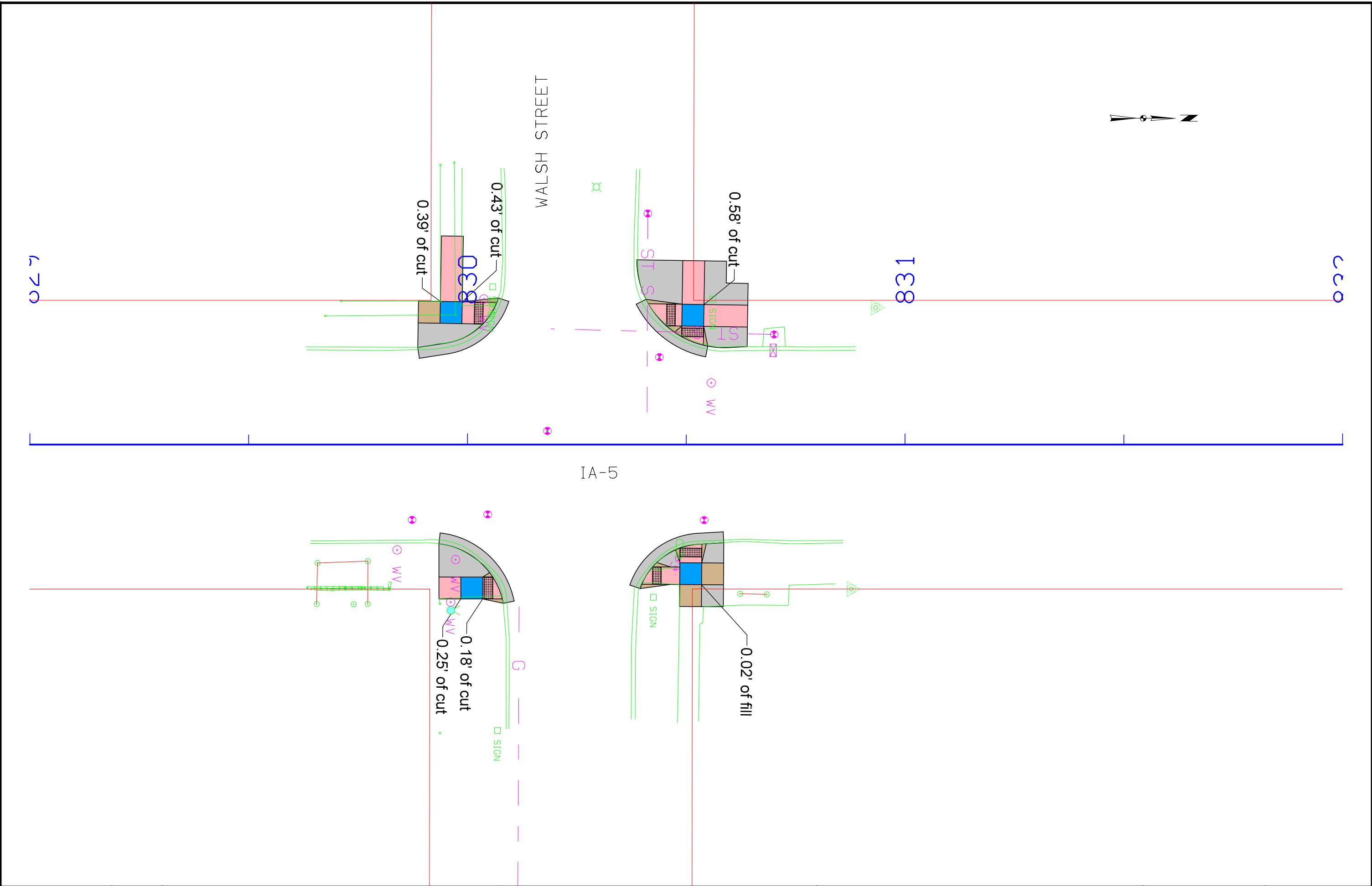
(COVERS SHEET SERIES S)

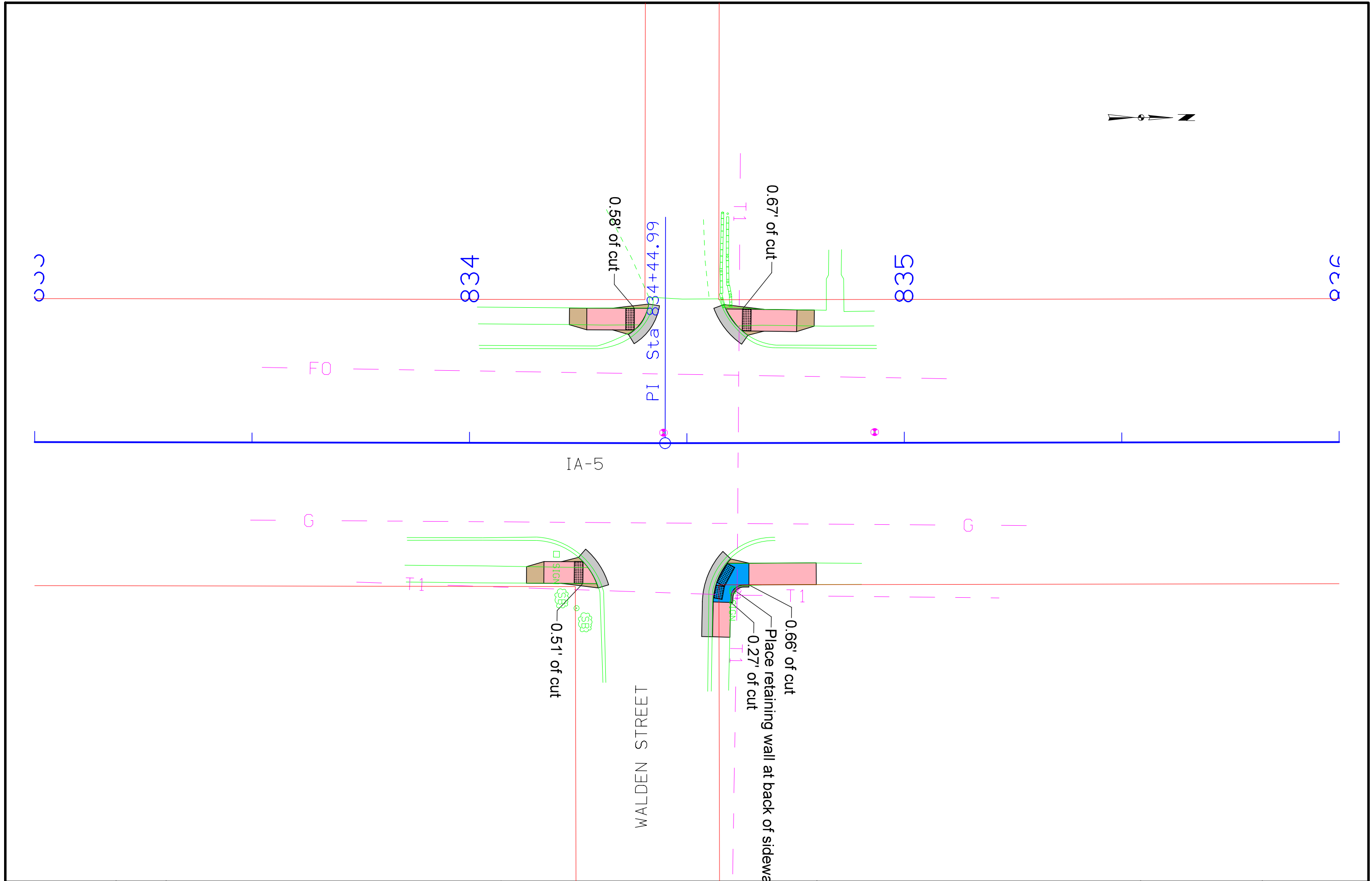


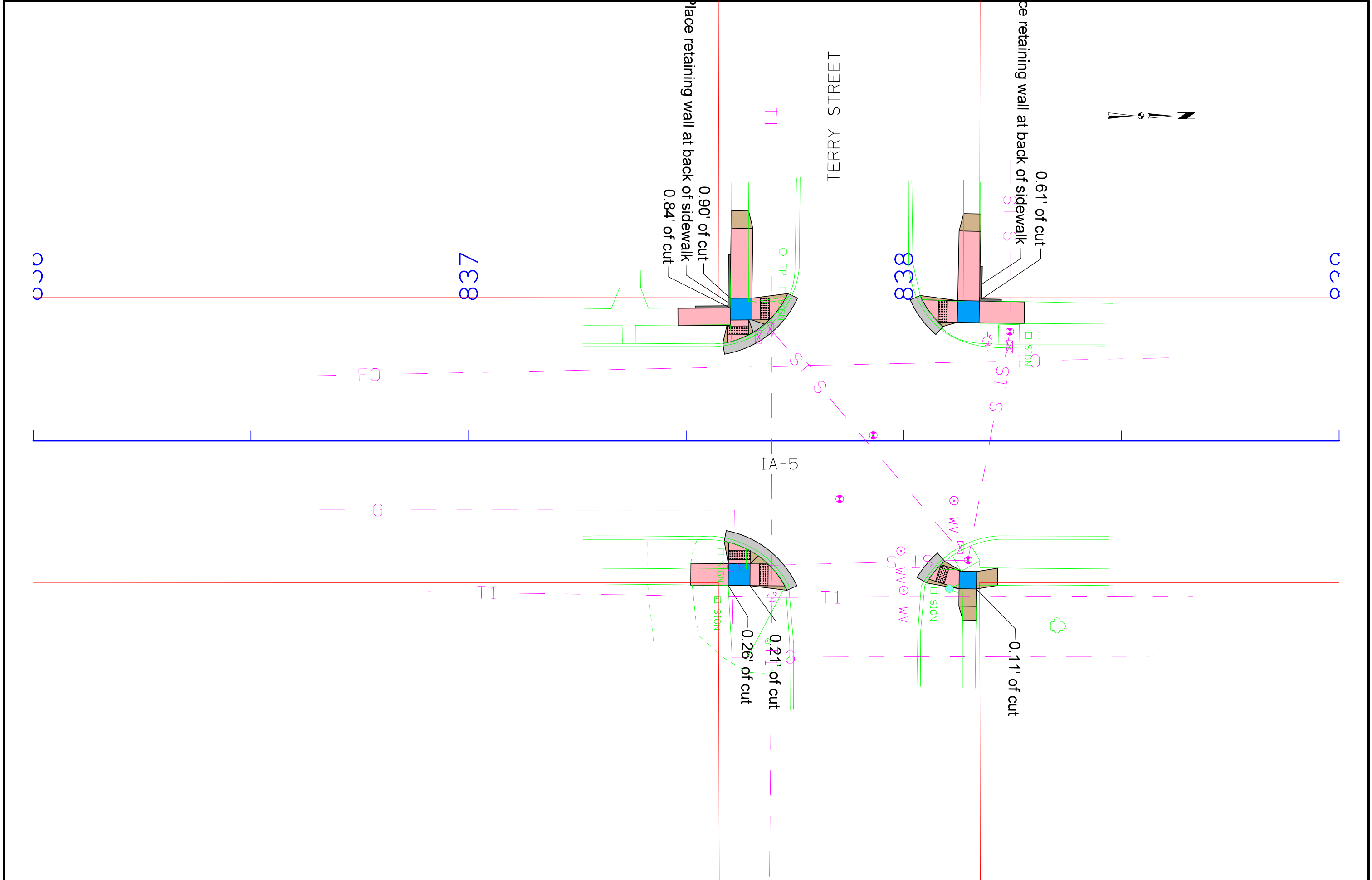


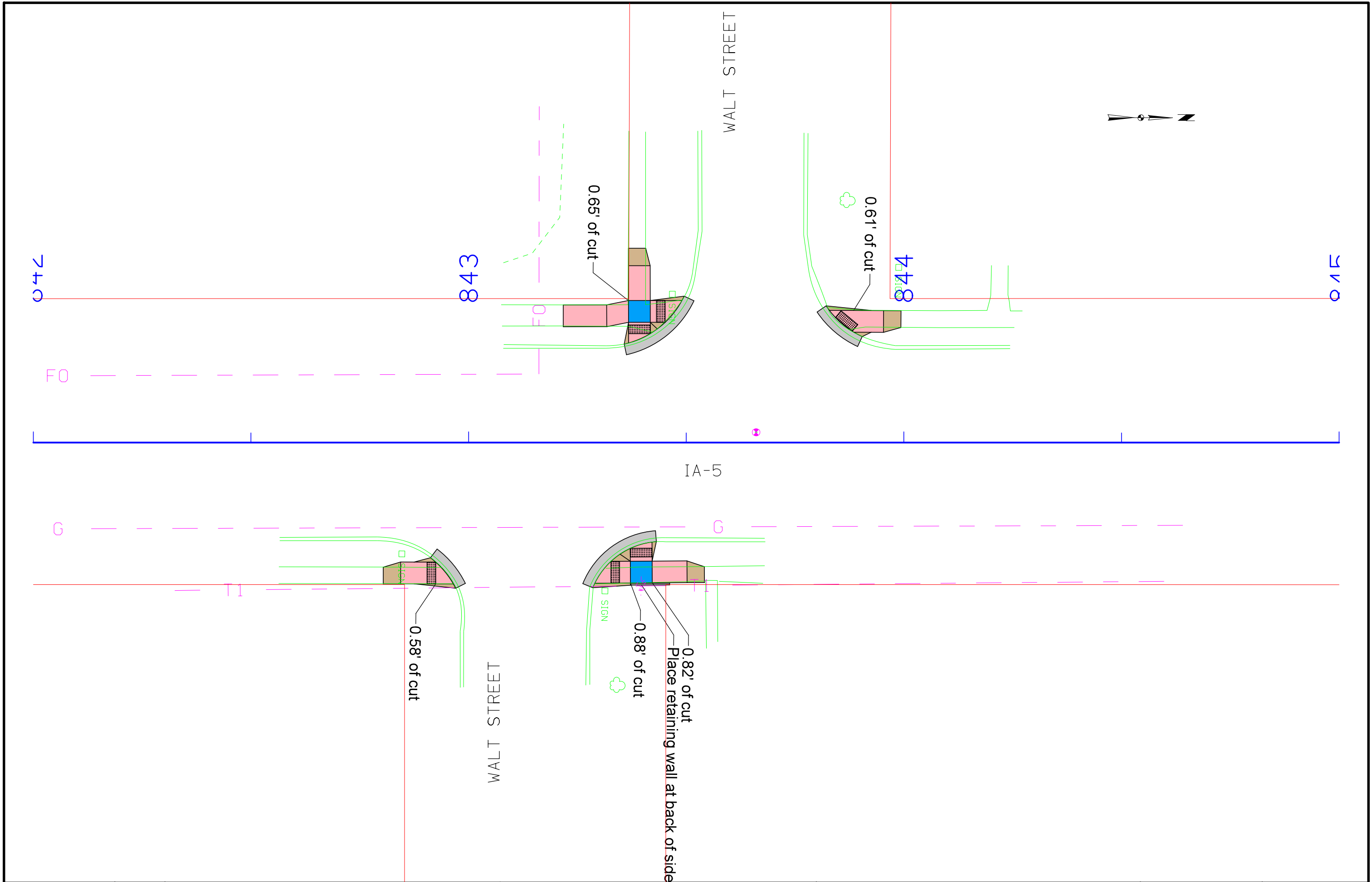


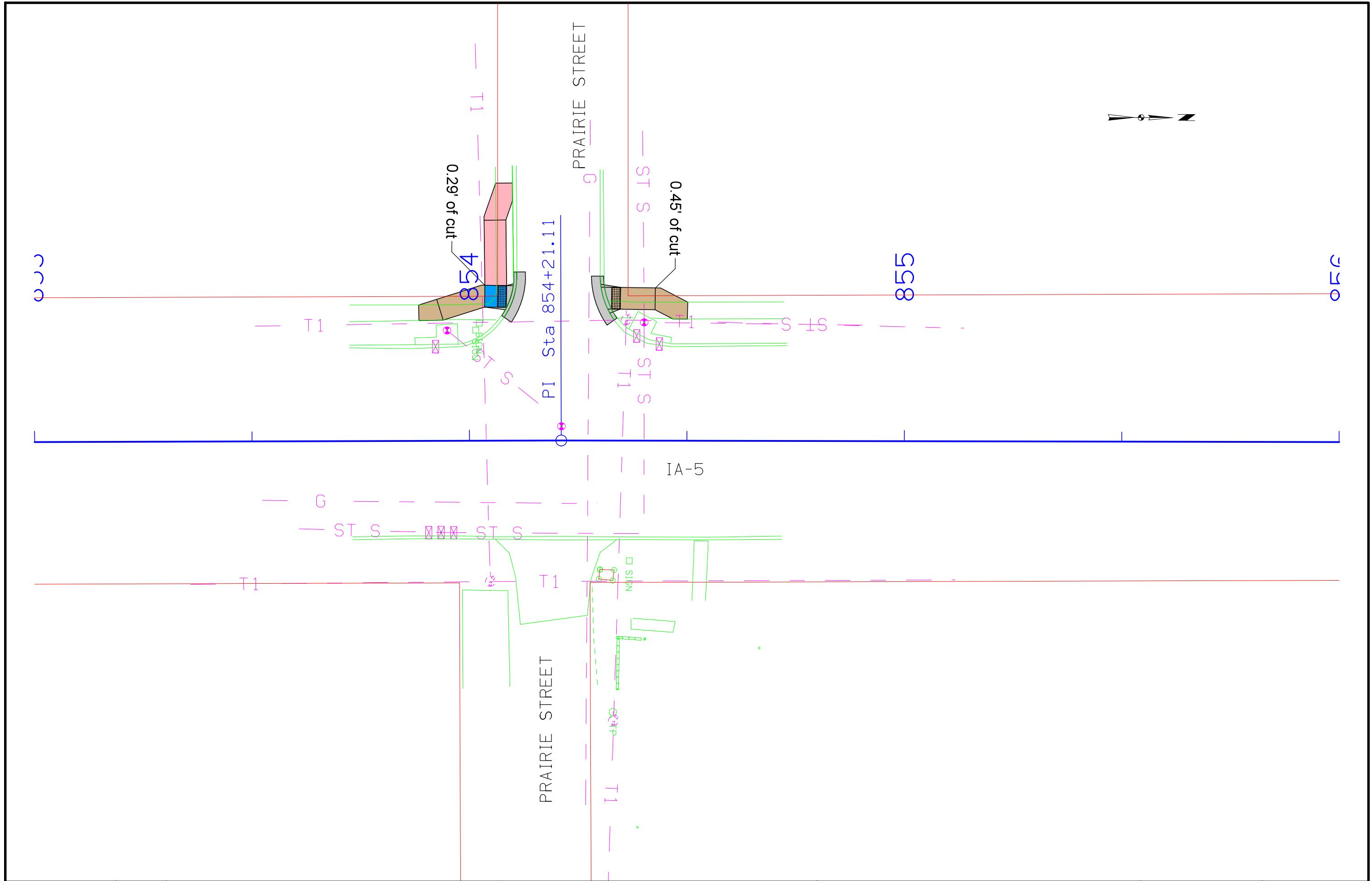


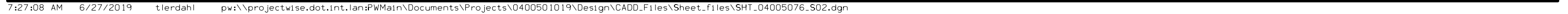






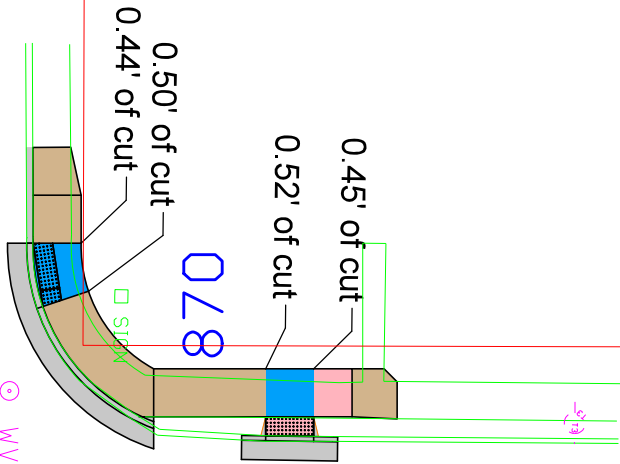






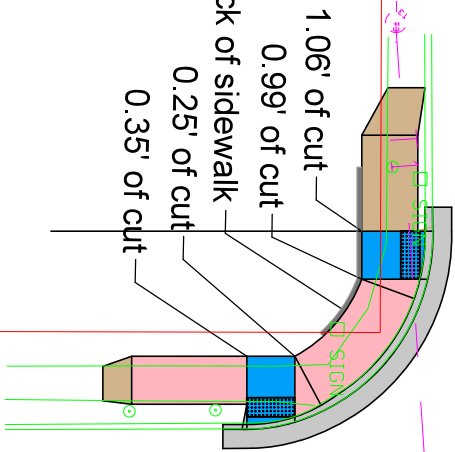


178



WV

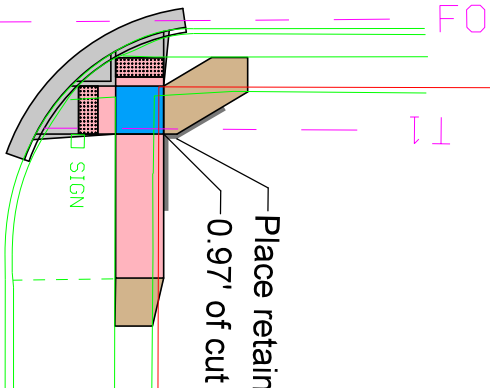
178



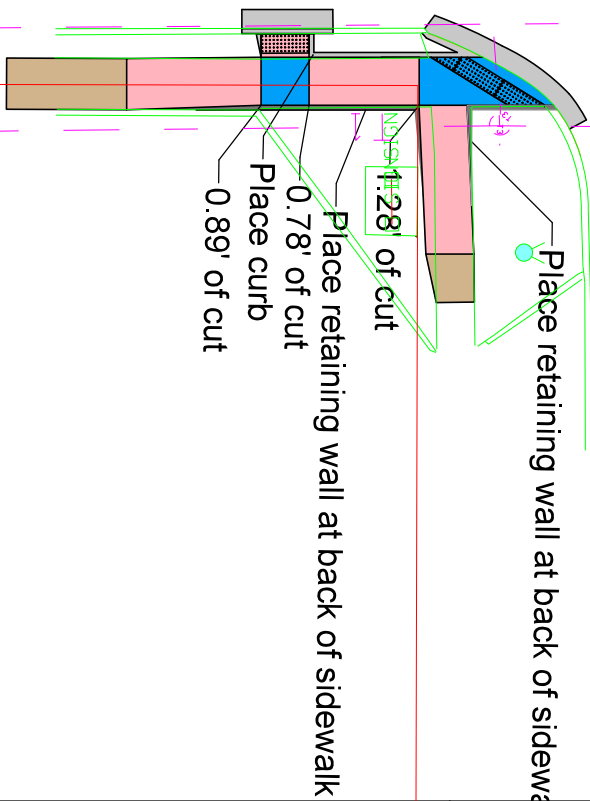
178

G

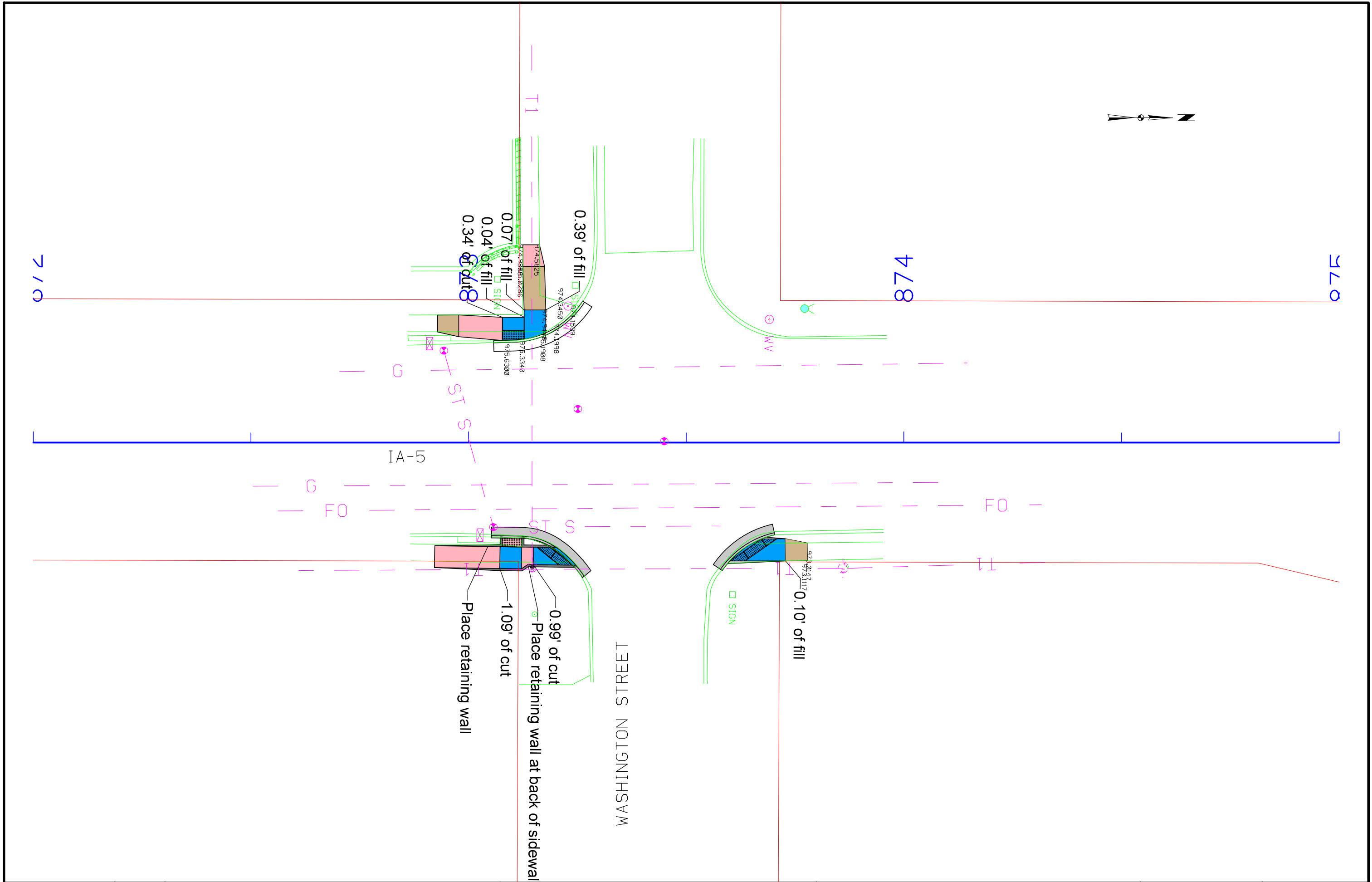
IA-5



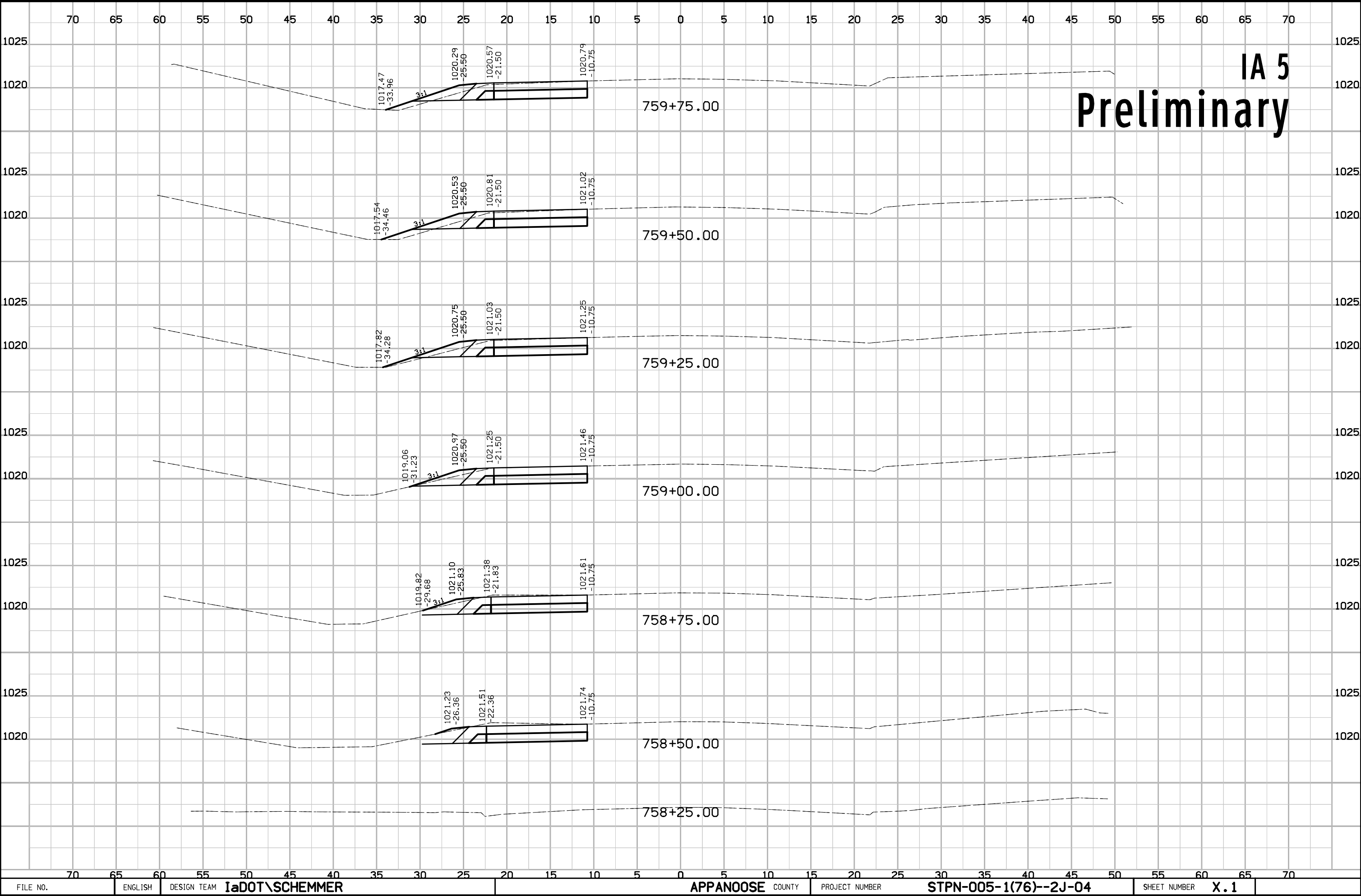
VAN BUREN STREET

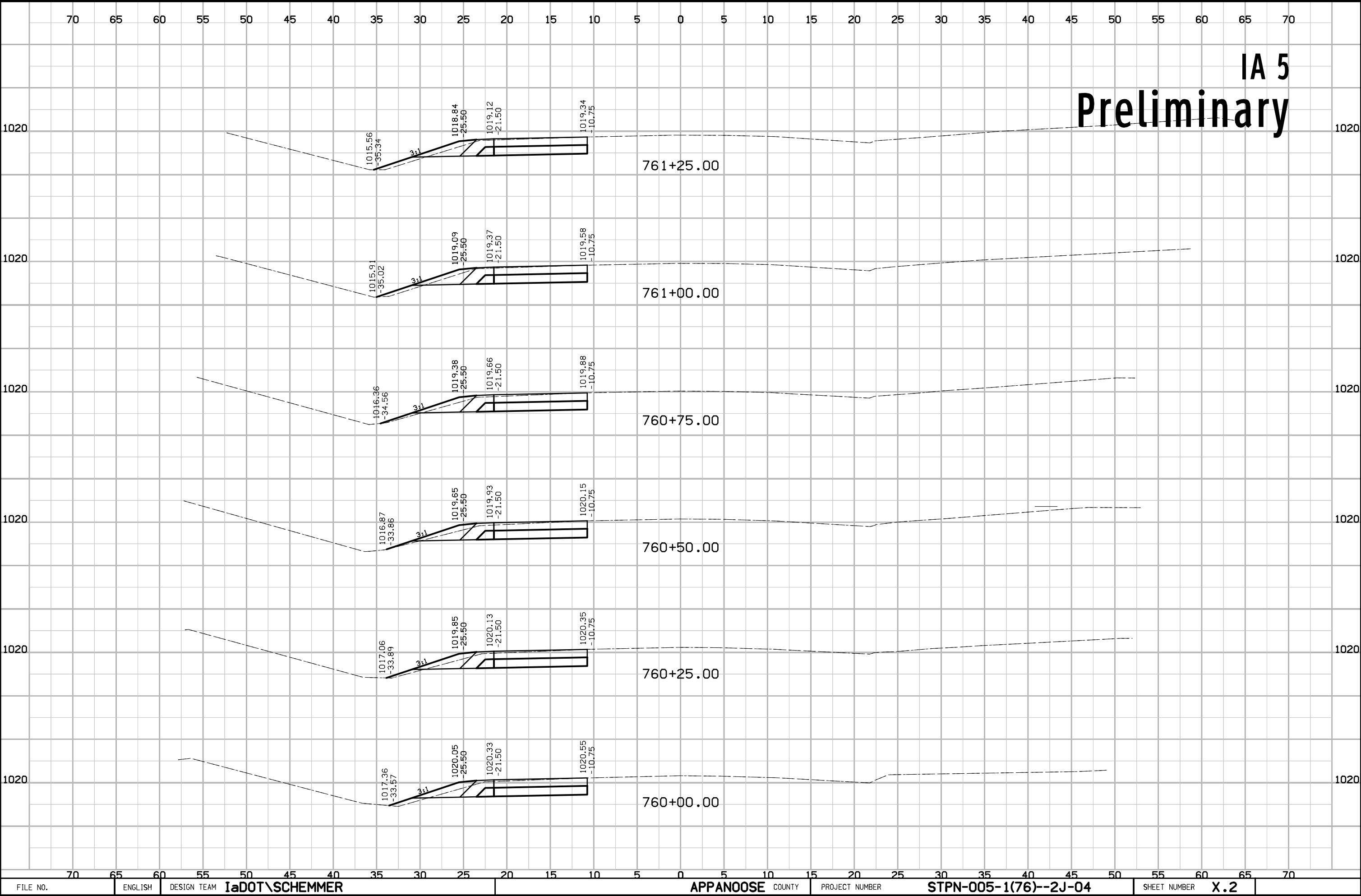


FO

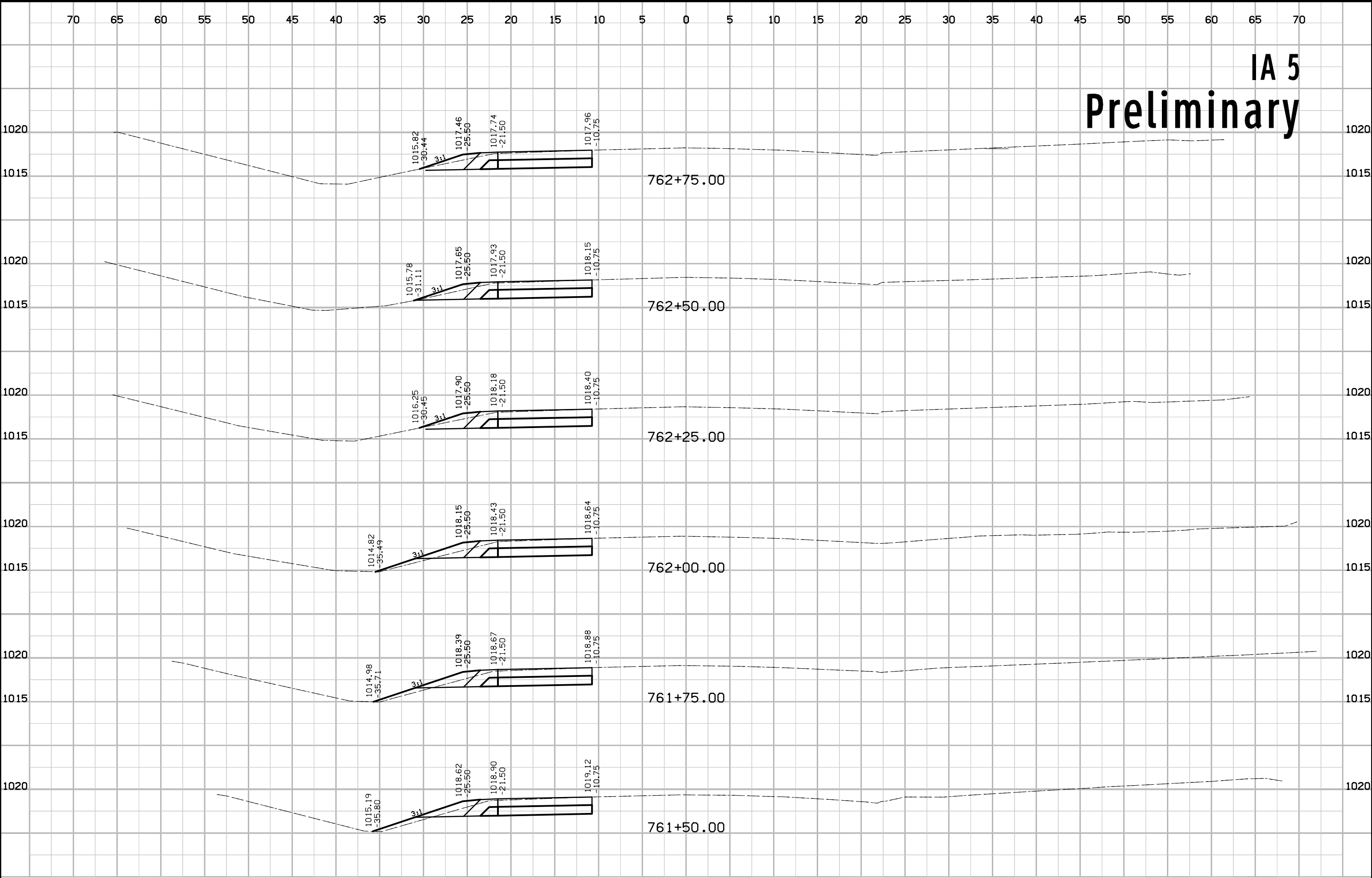


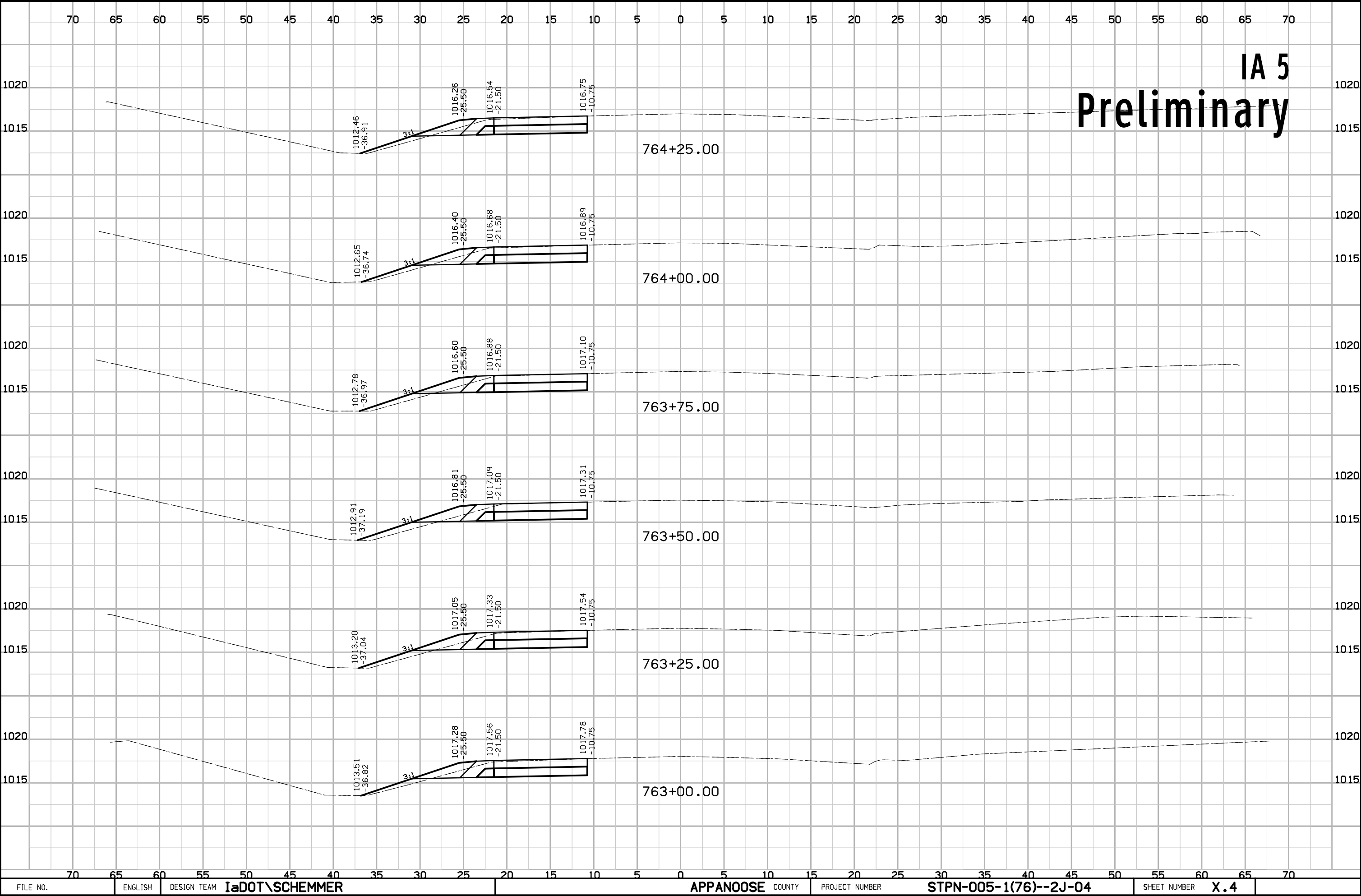


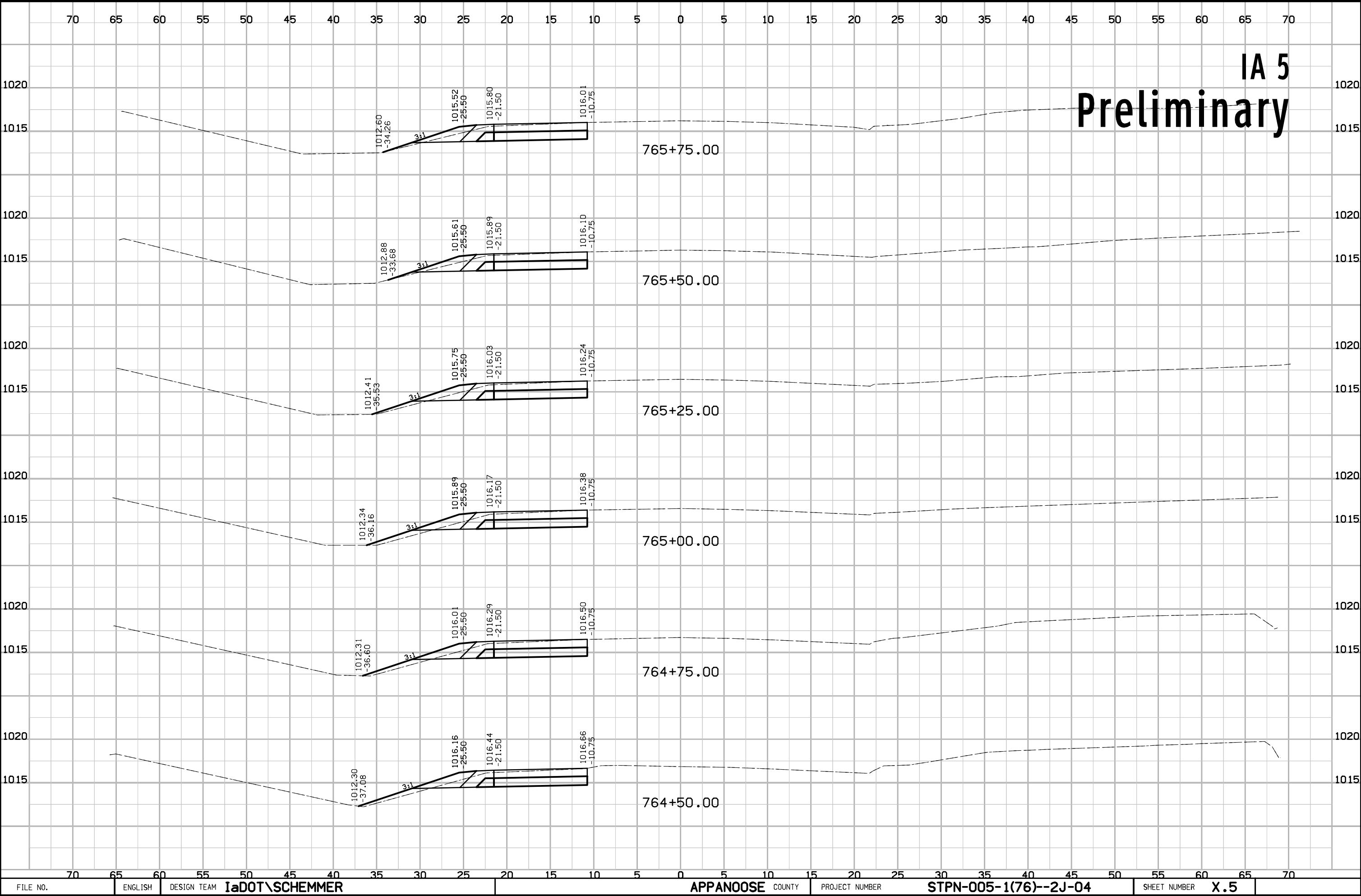


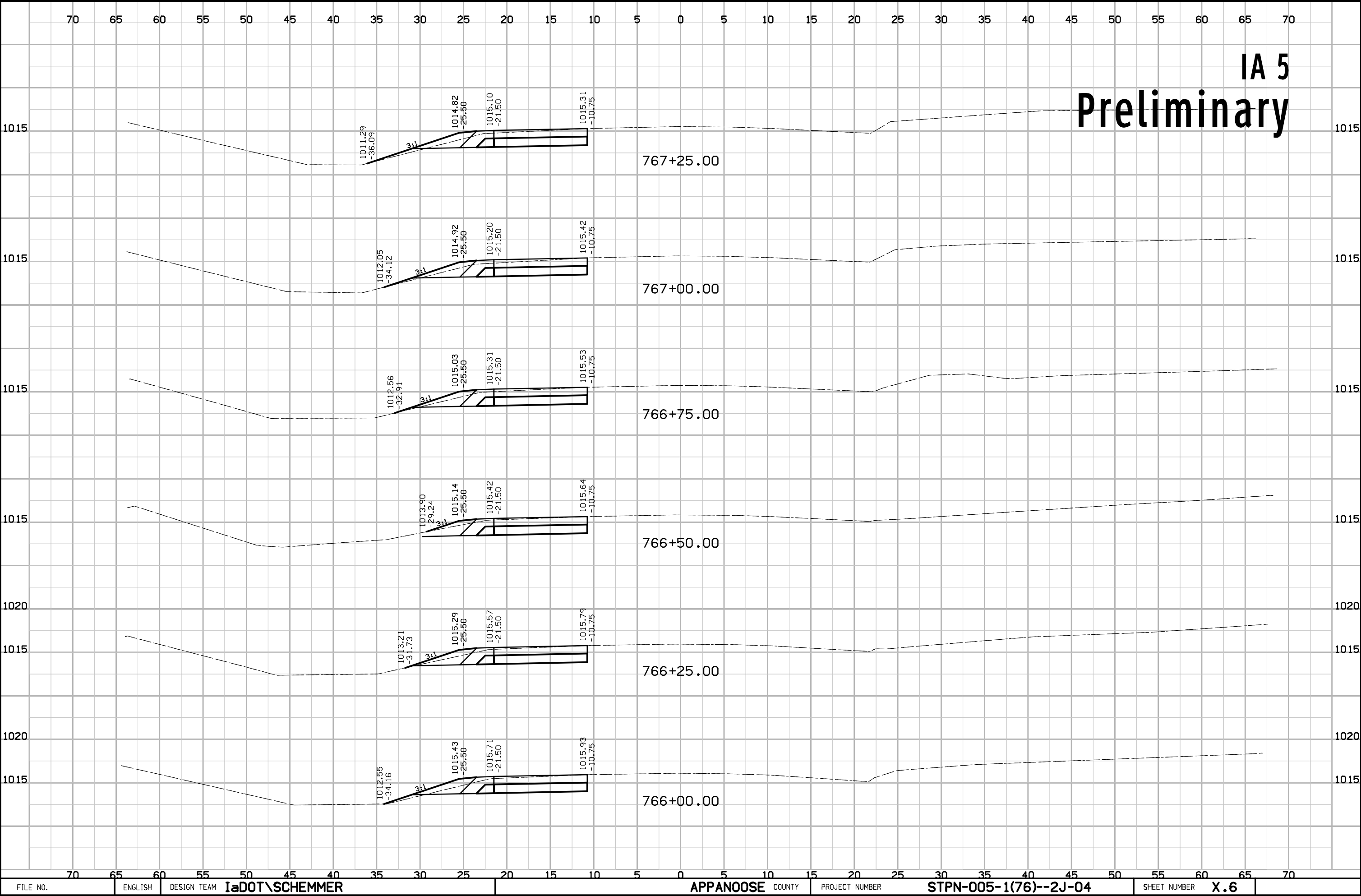


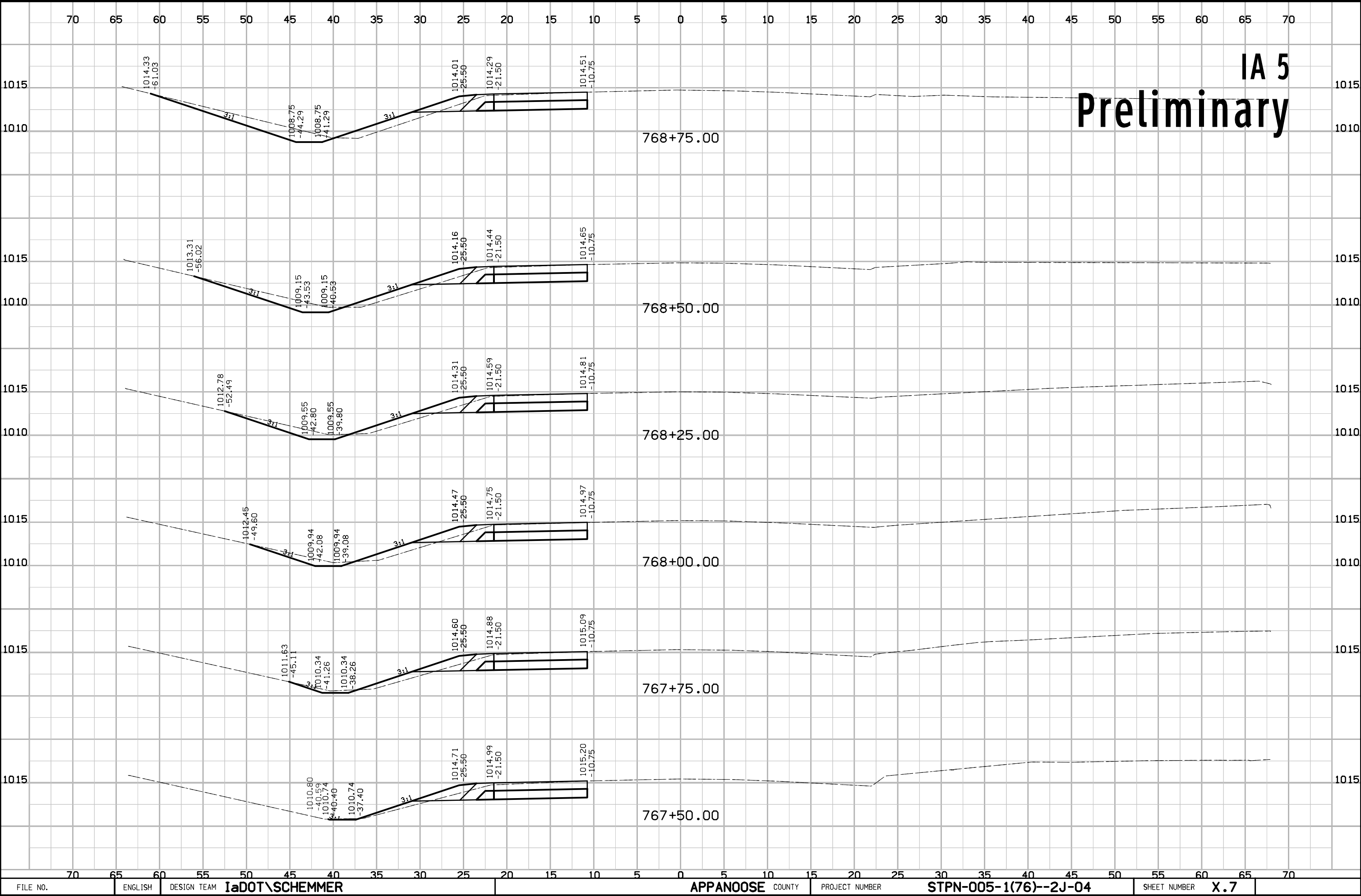
IA 5
Preliminary

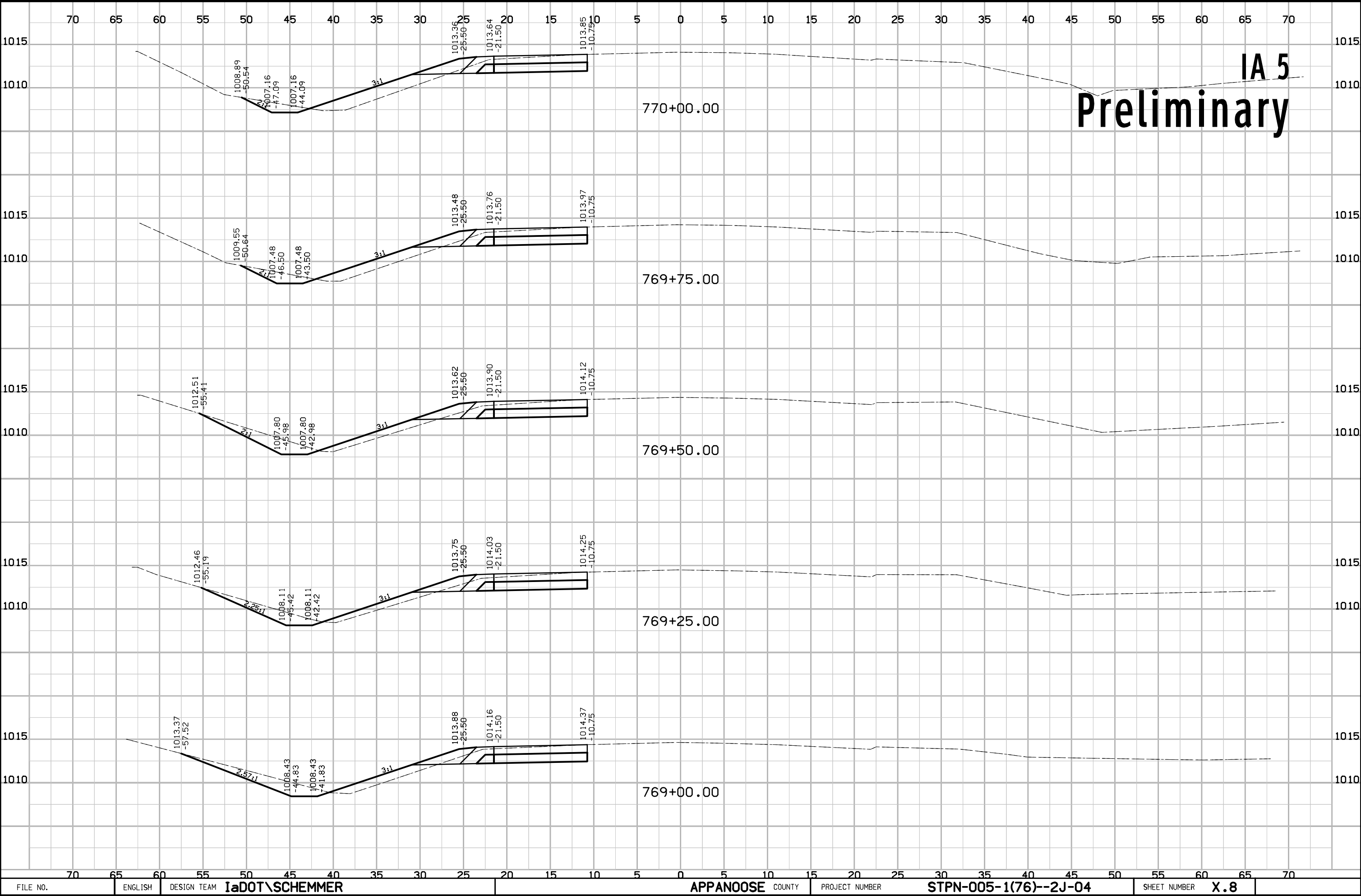


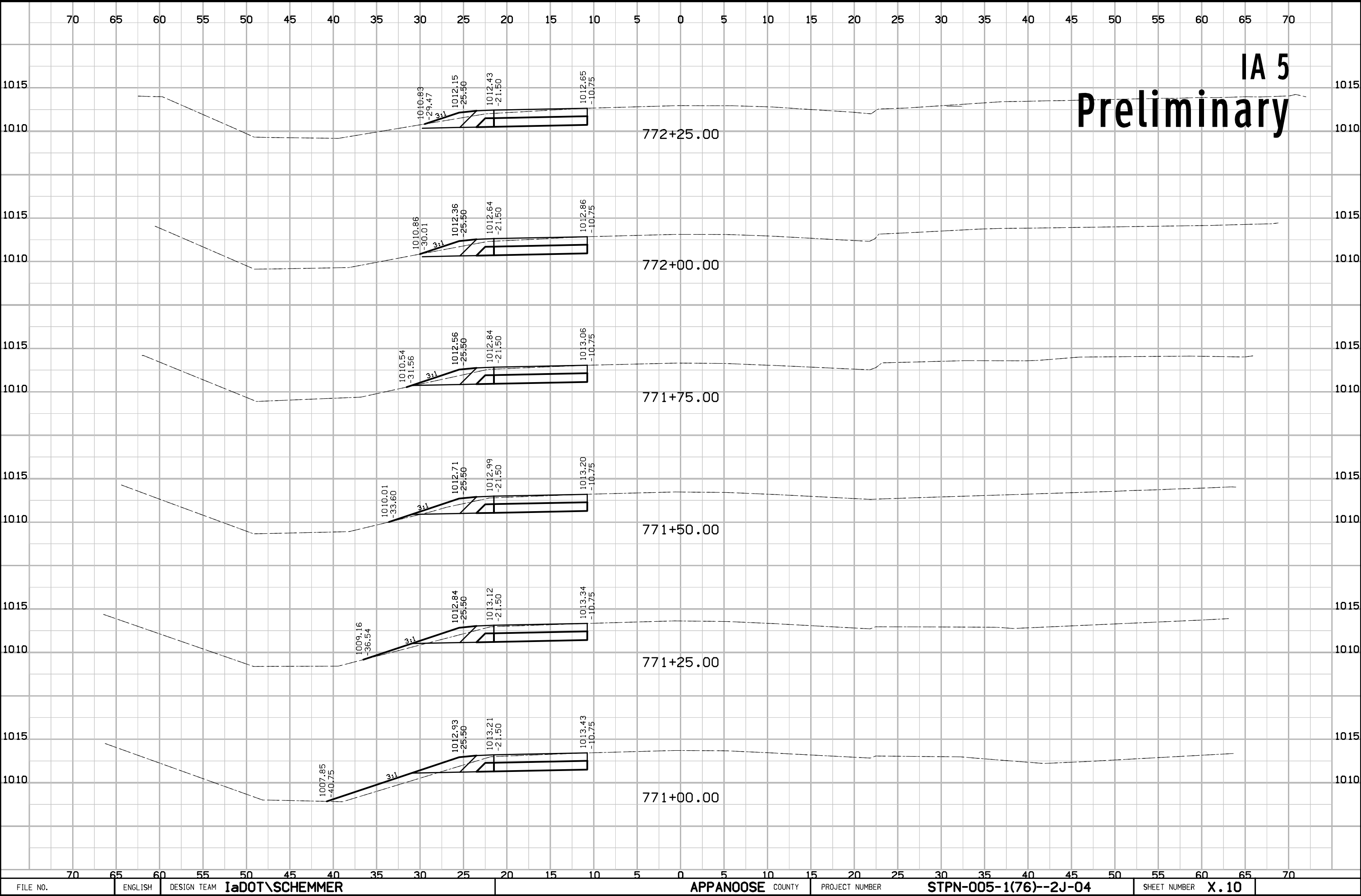




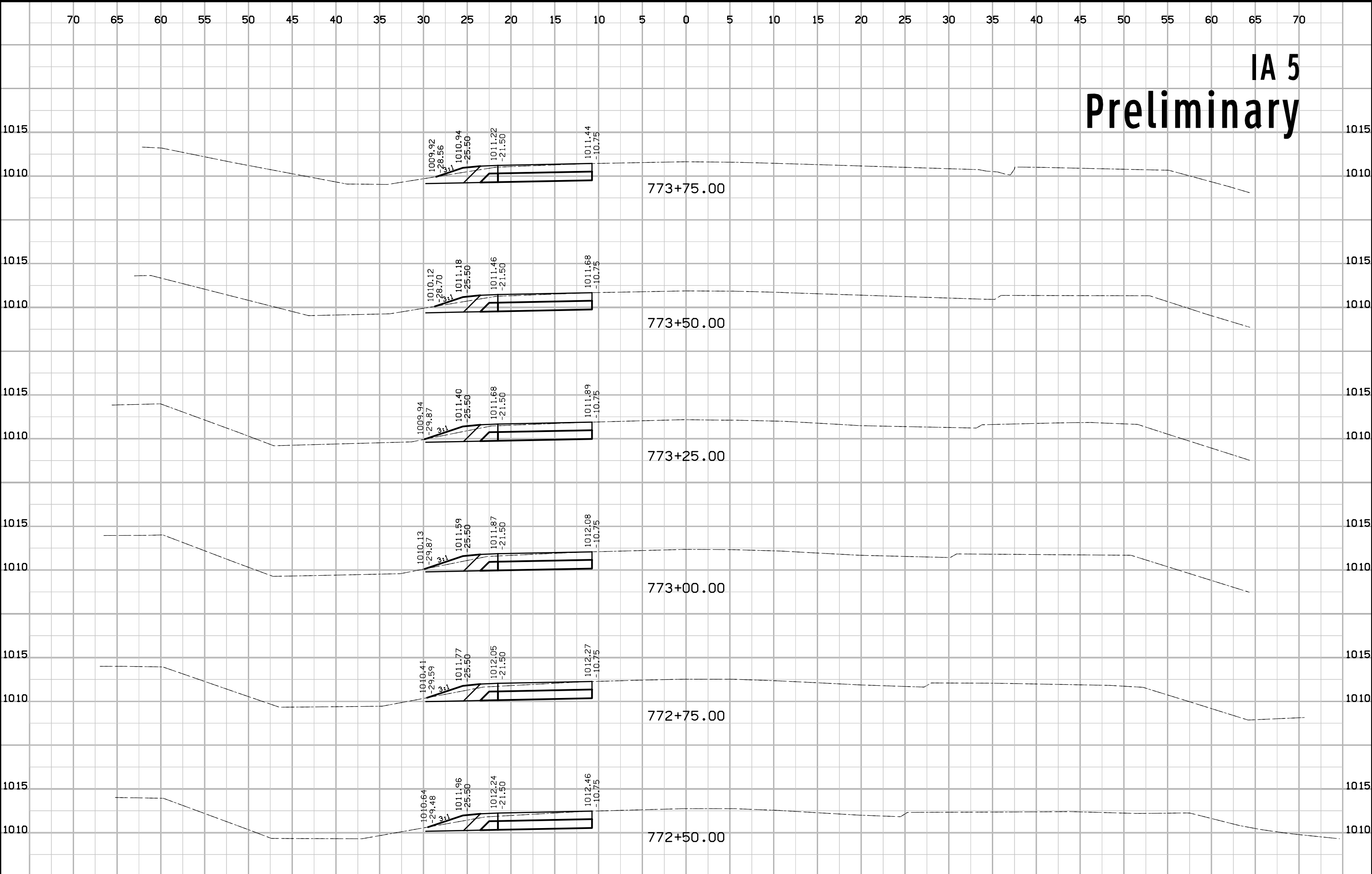


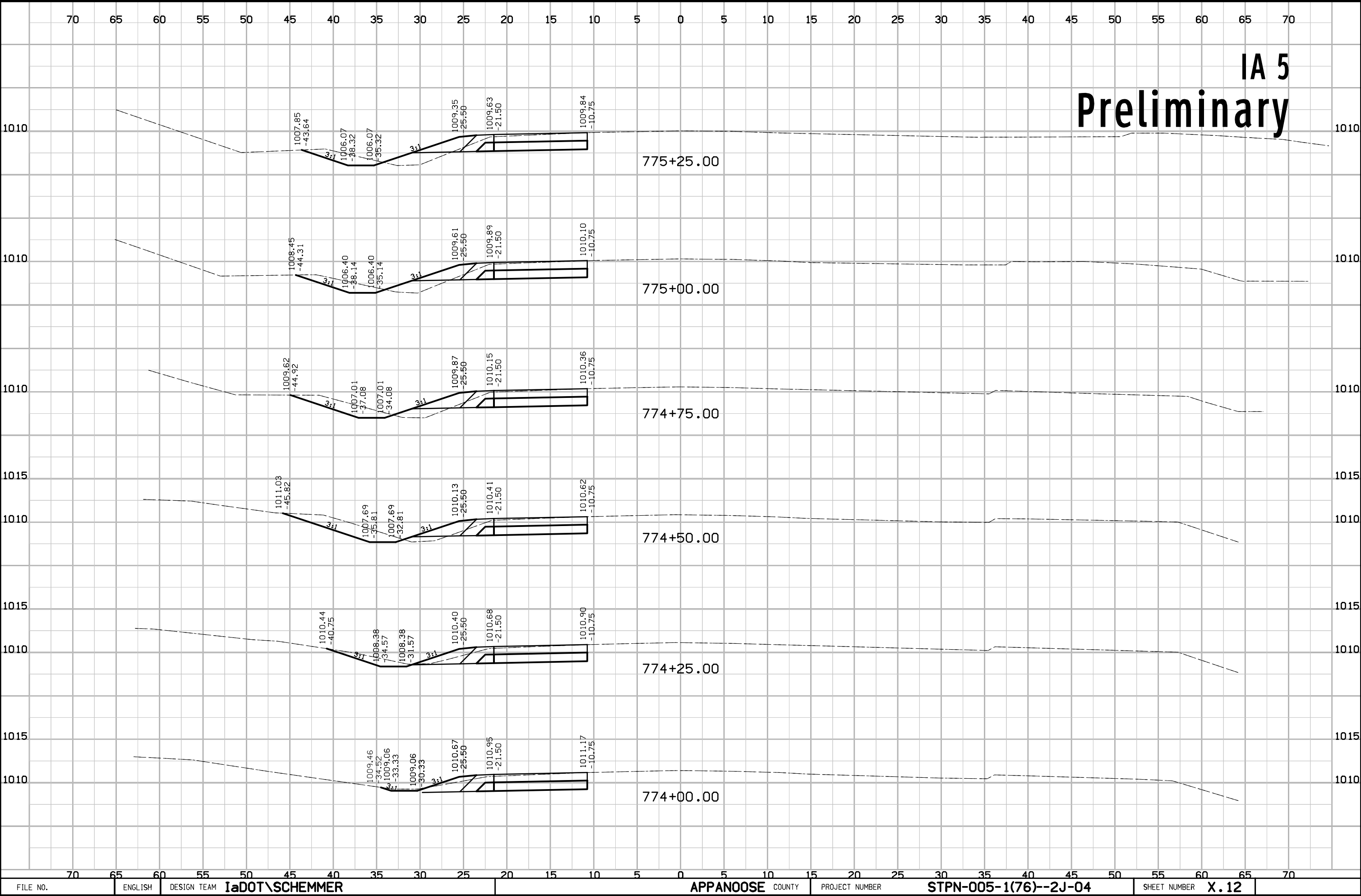




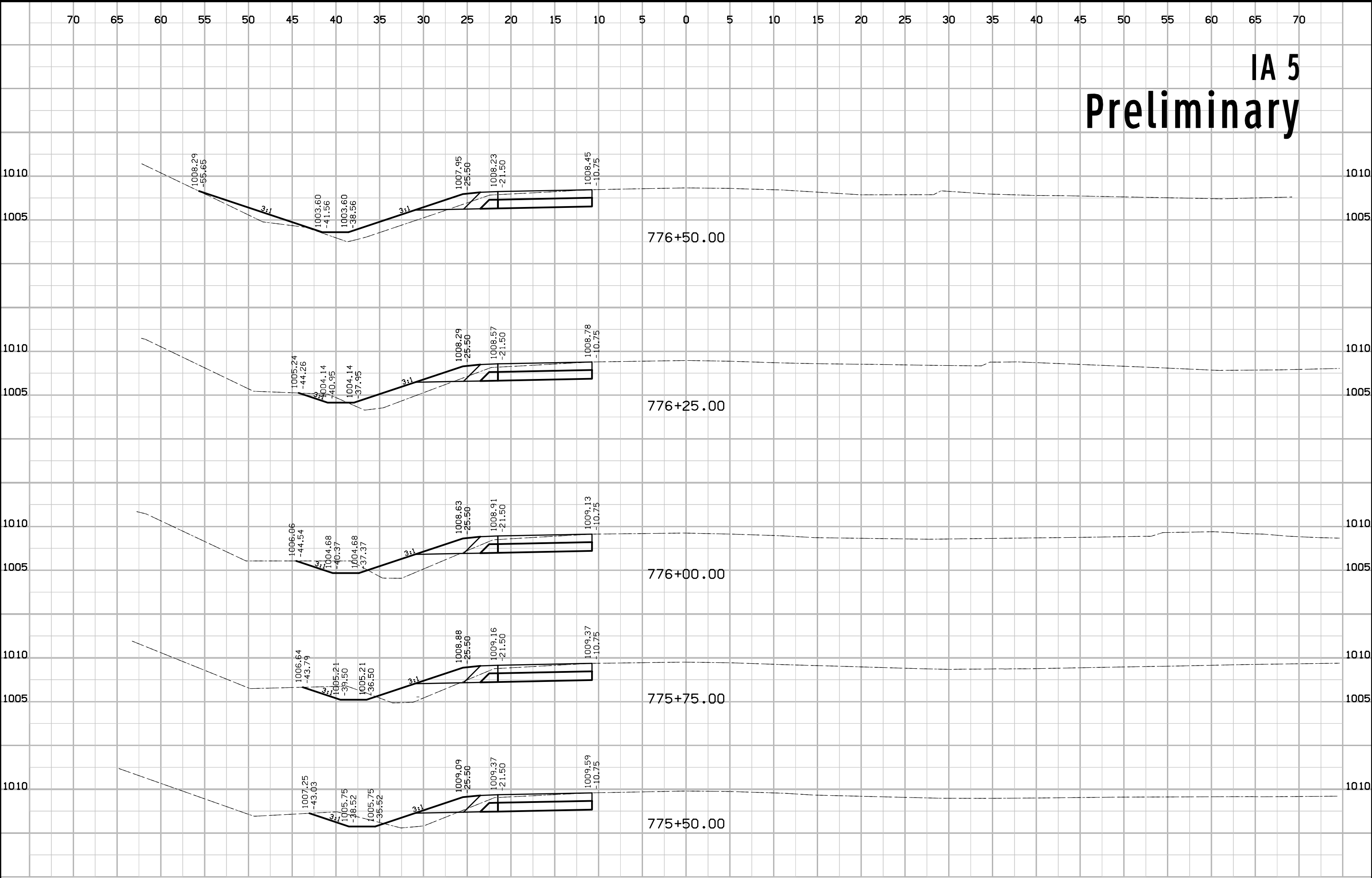


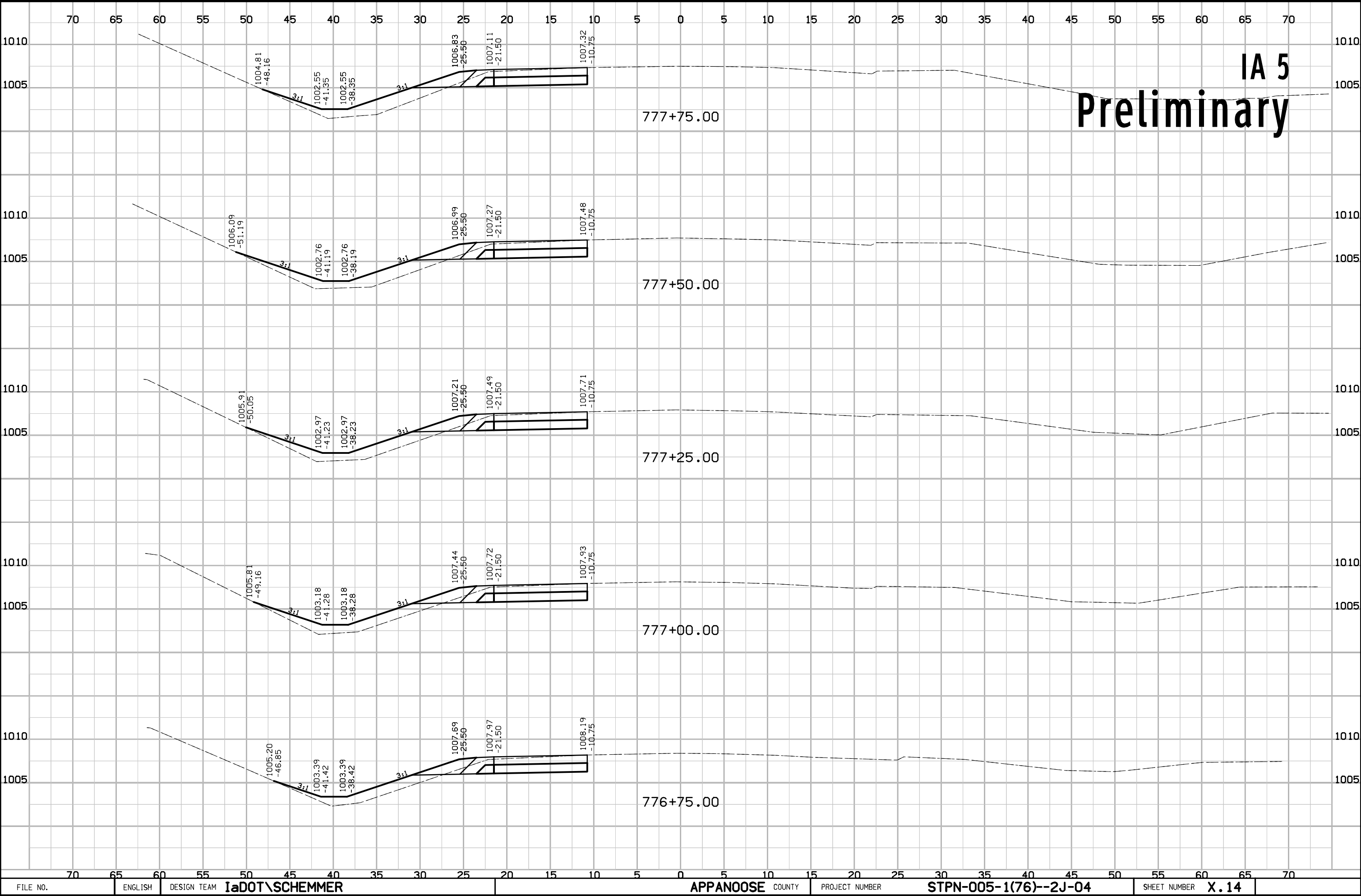
IA 5
Preliminary

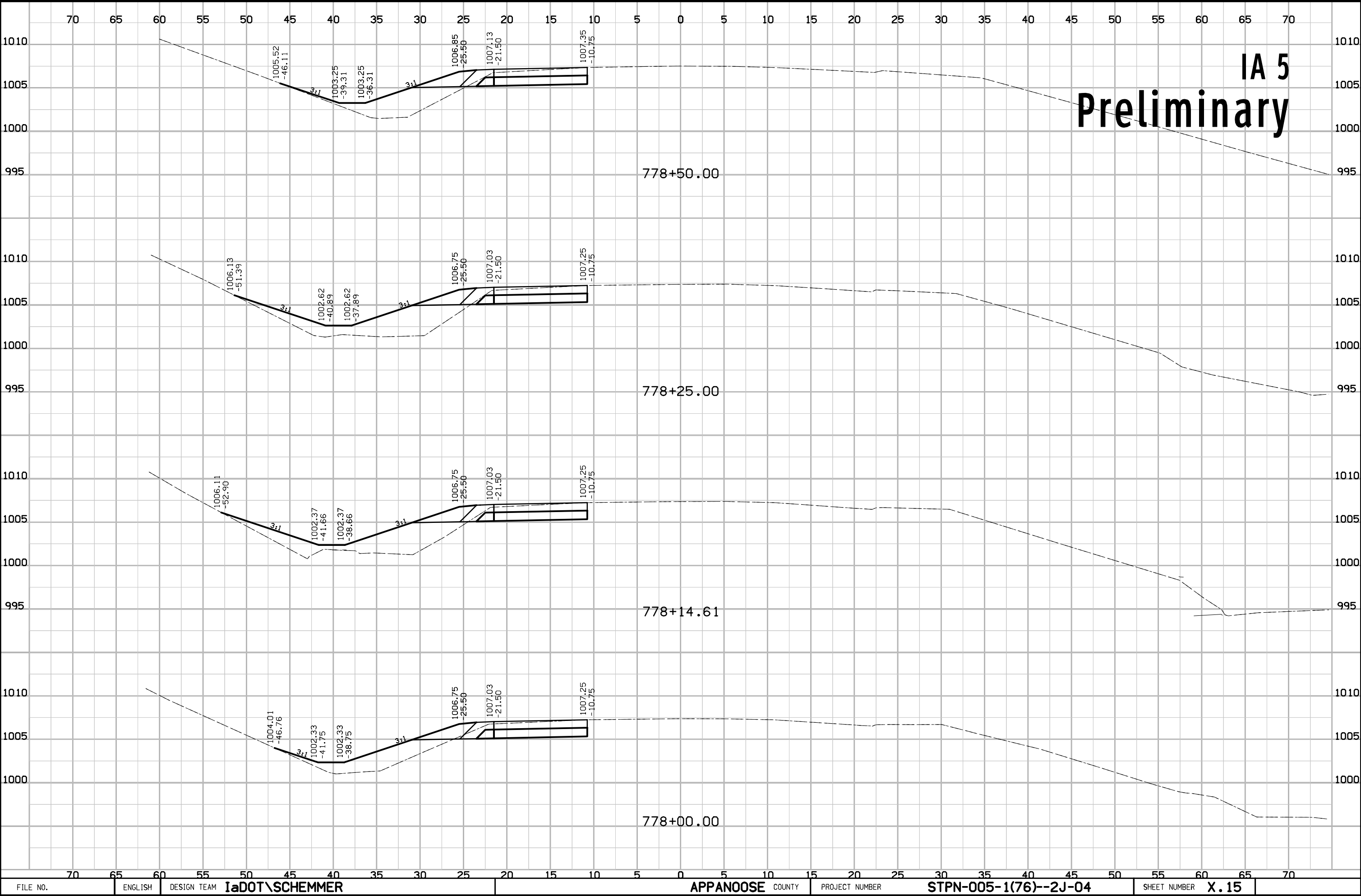


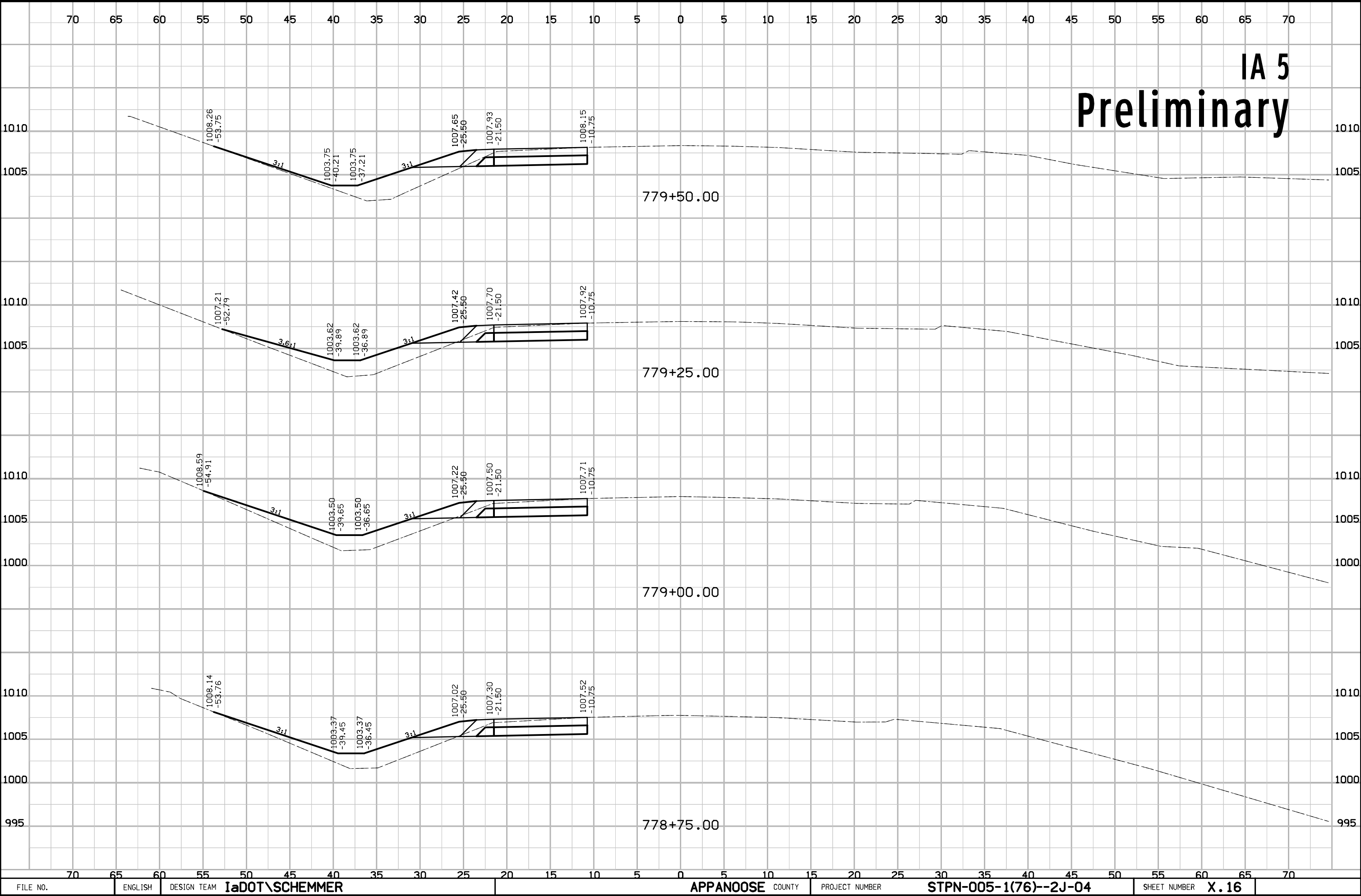


IA 5
Preliminary

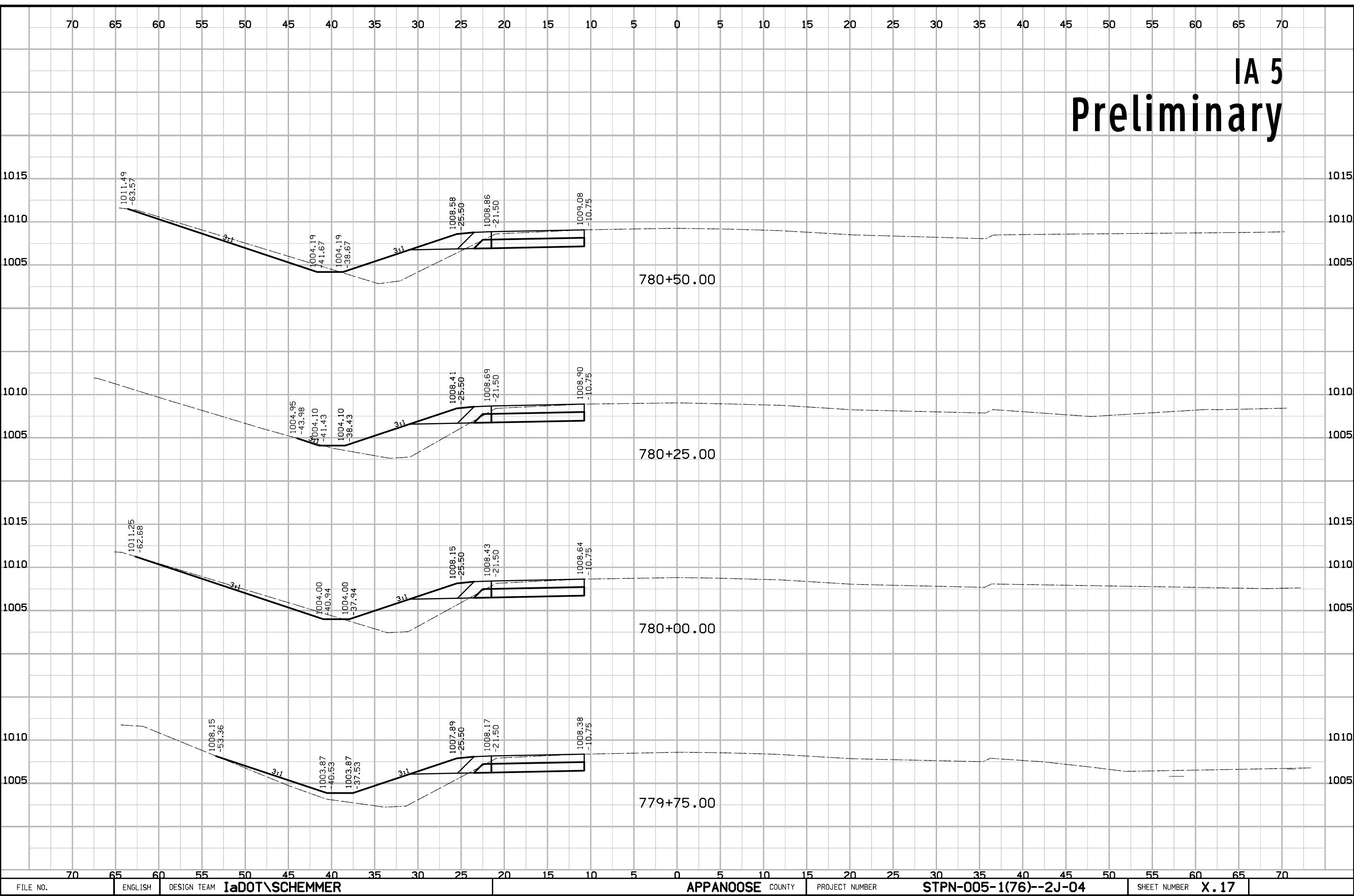




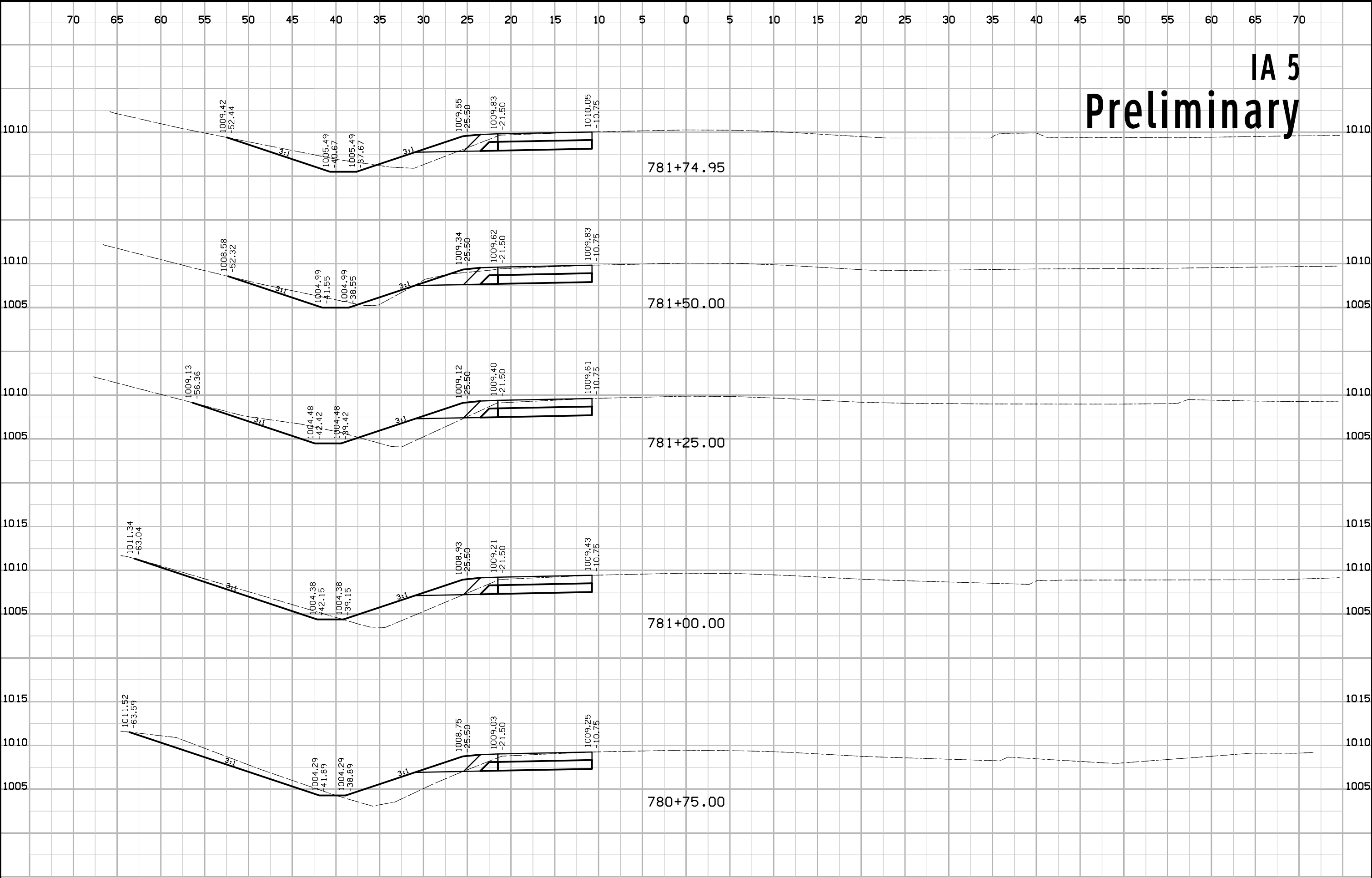


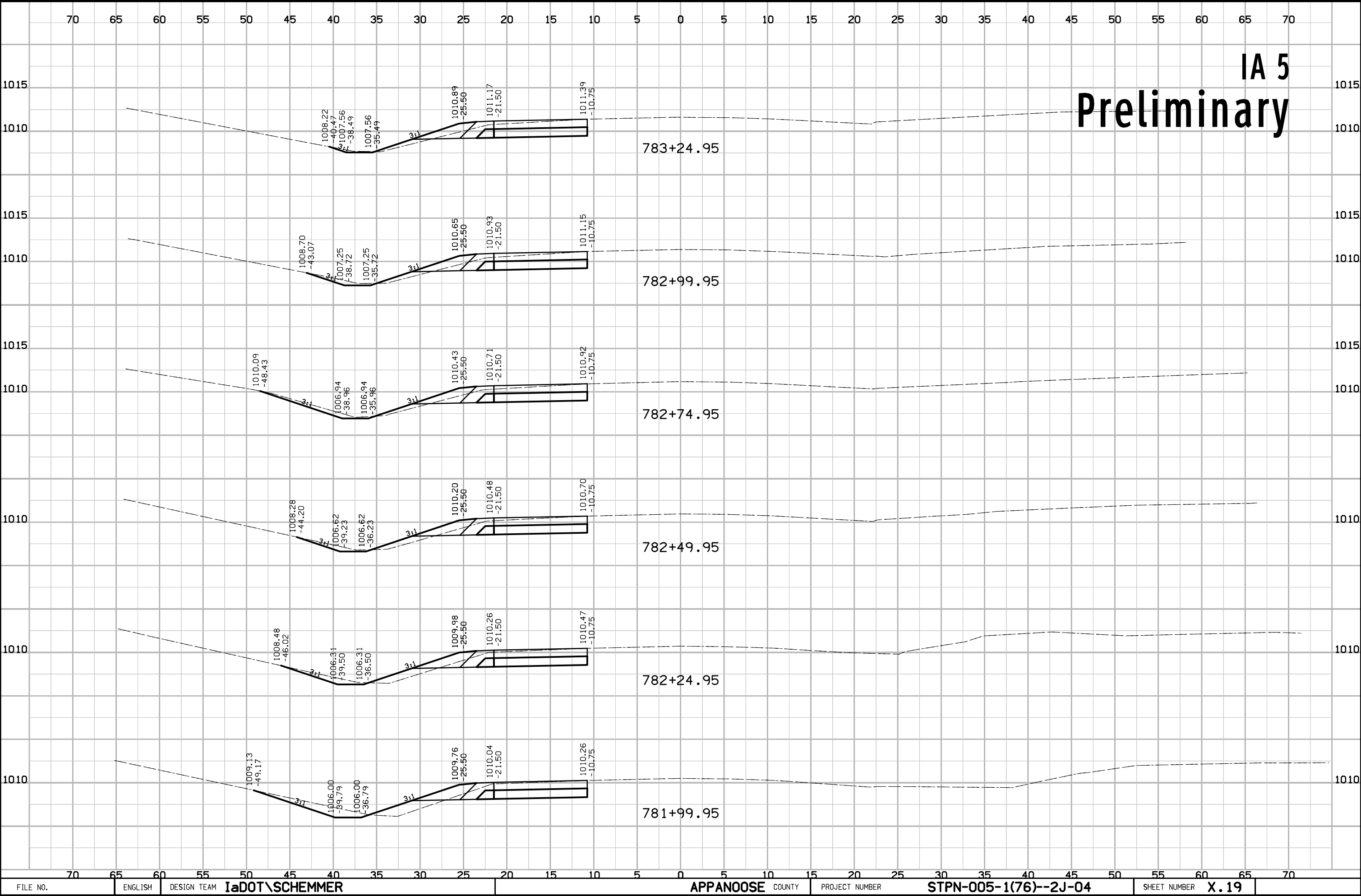


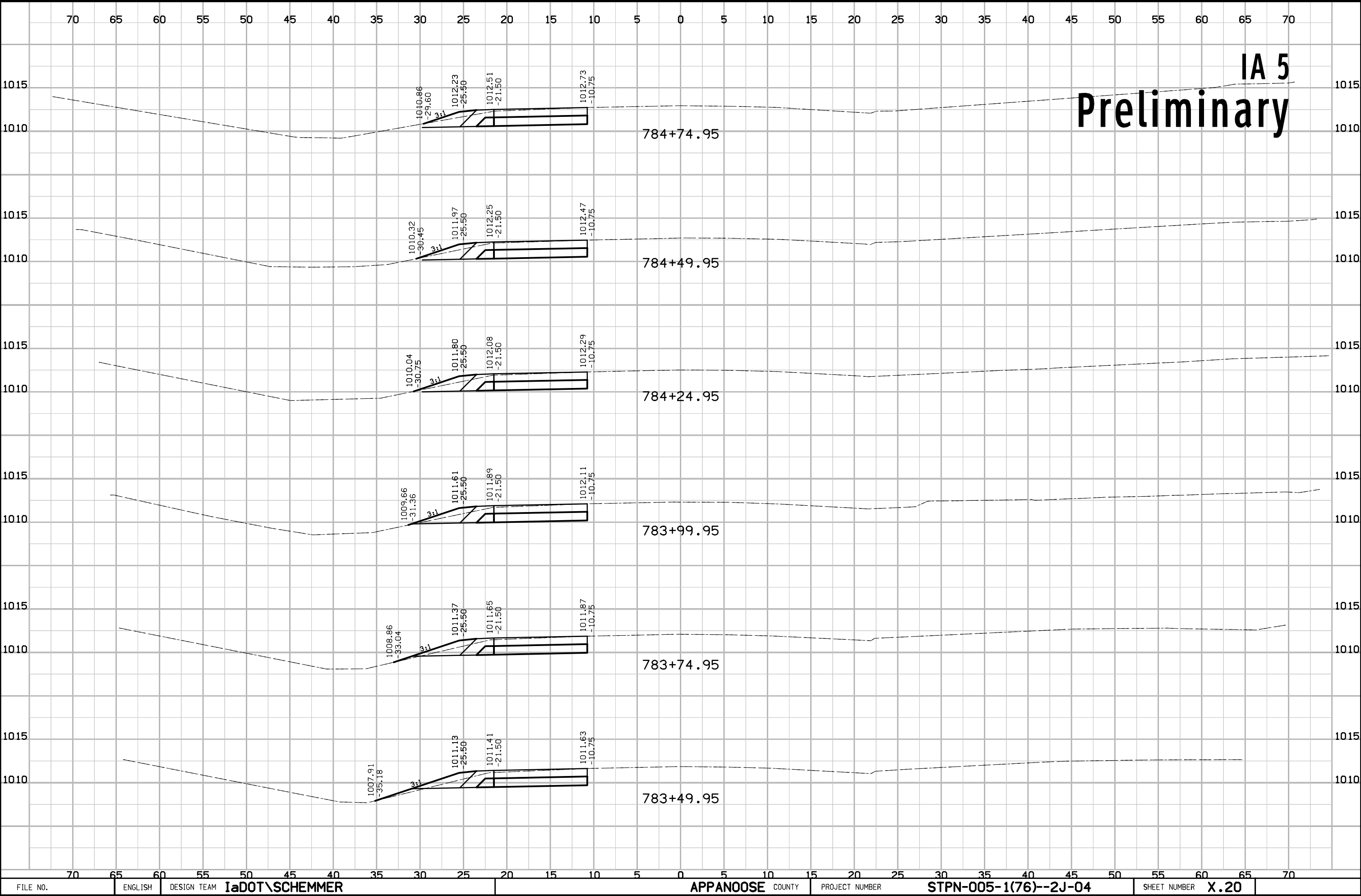
IA 5
Preliminary



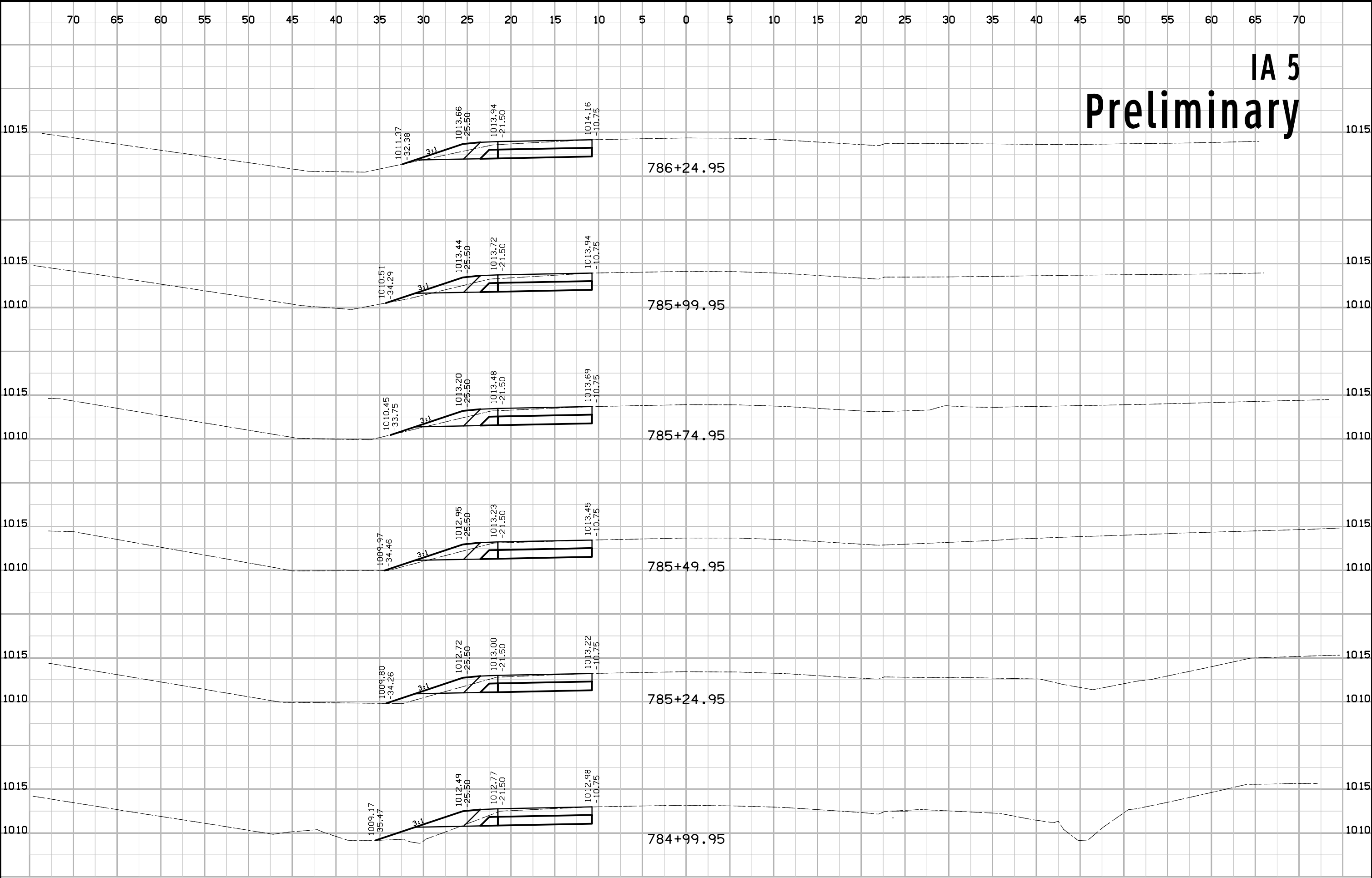
IA 5
Preliminary



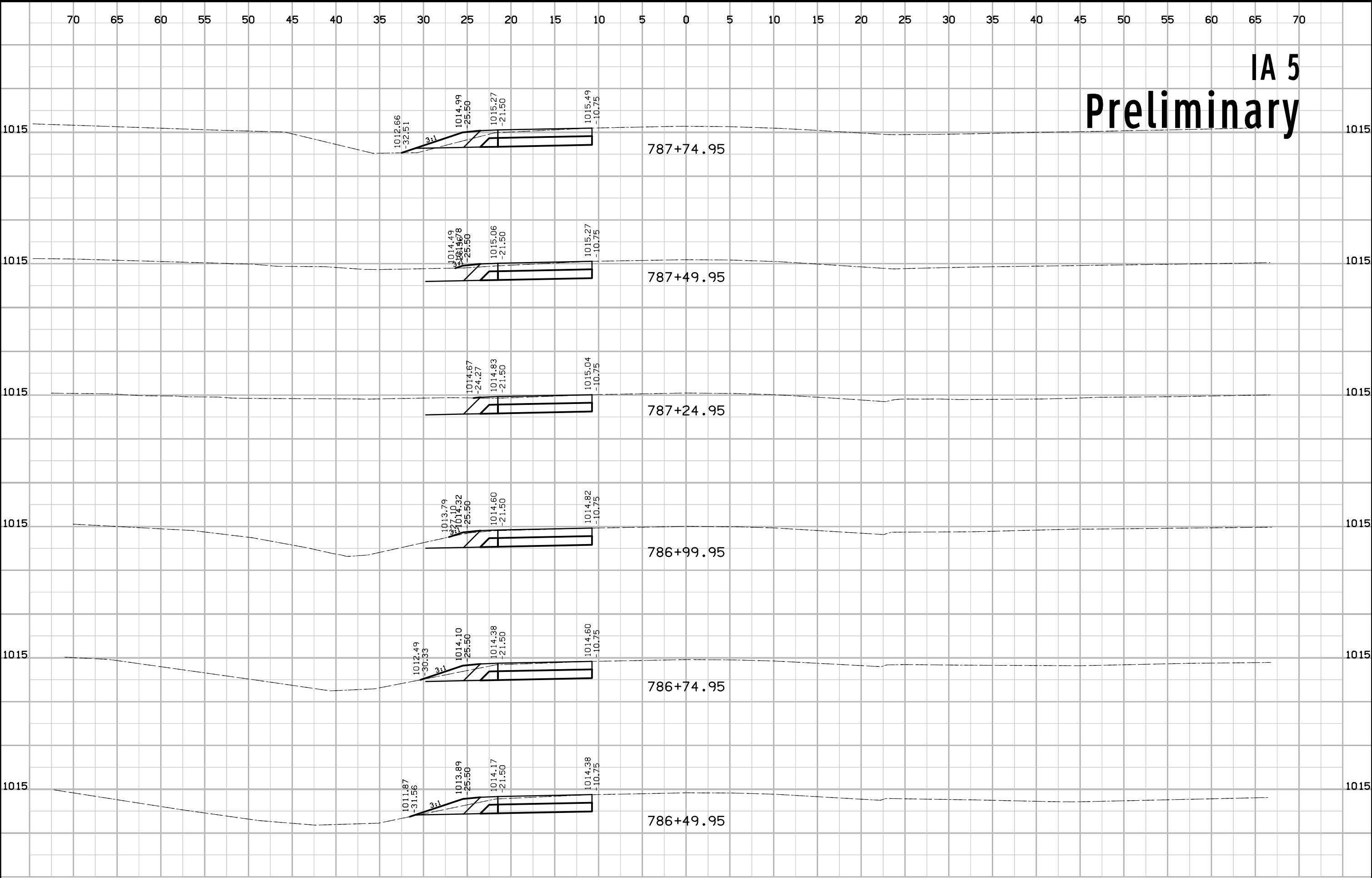


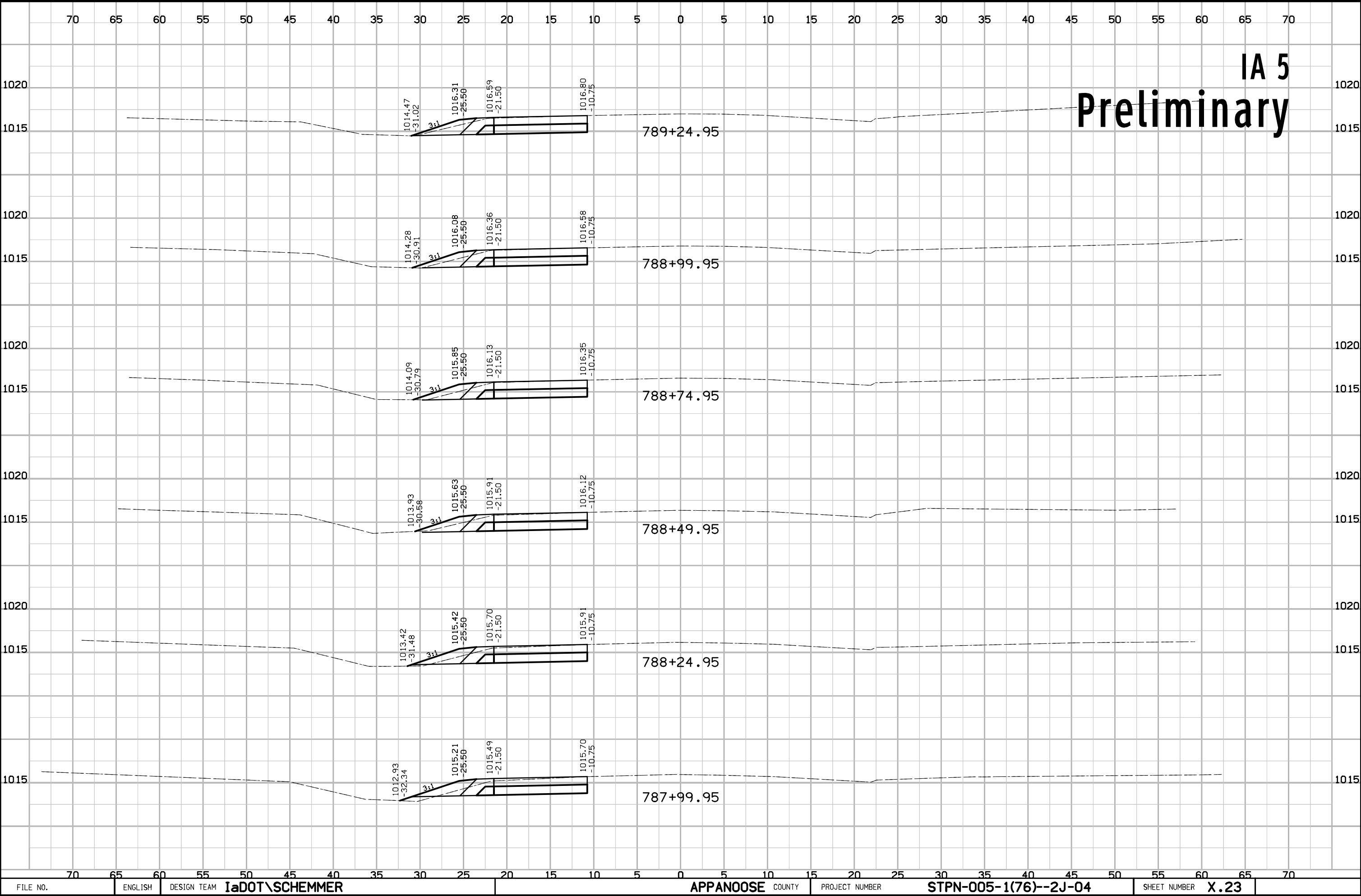


IA 5
Preliminary

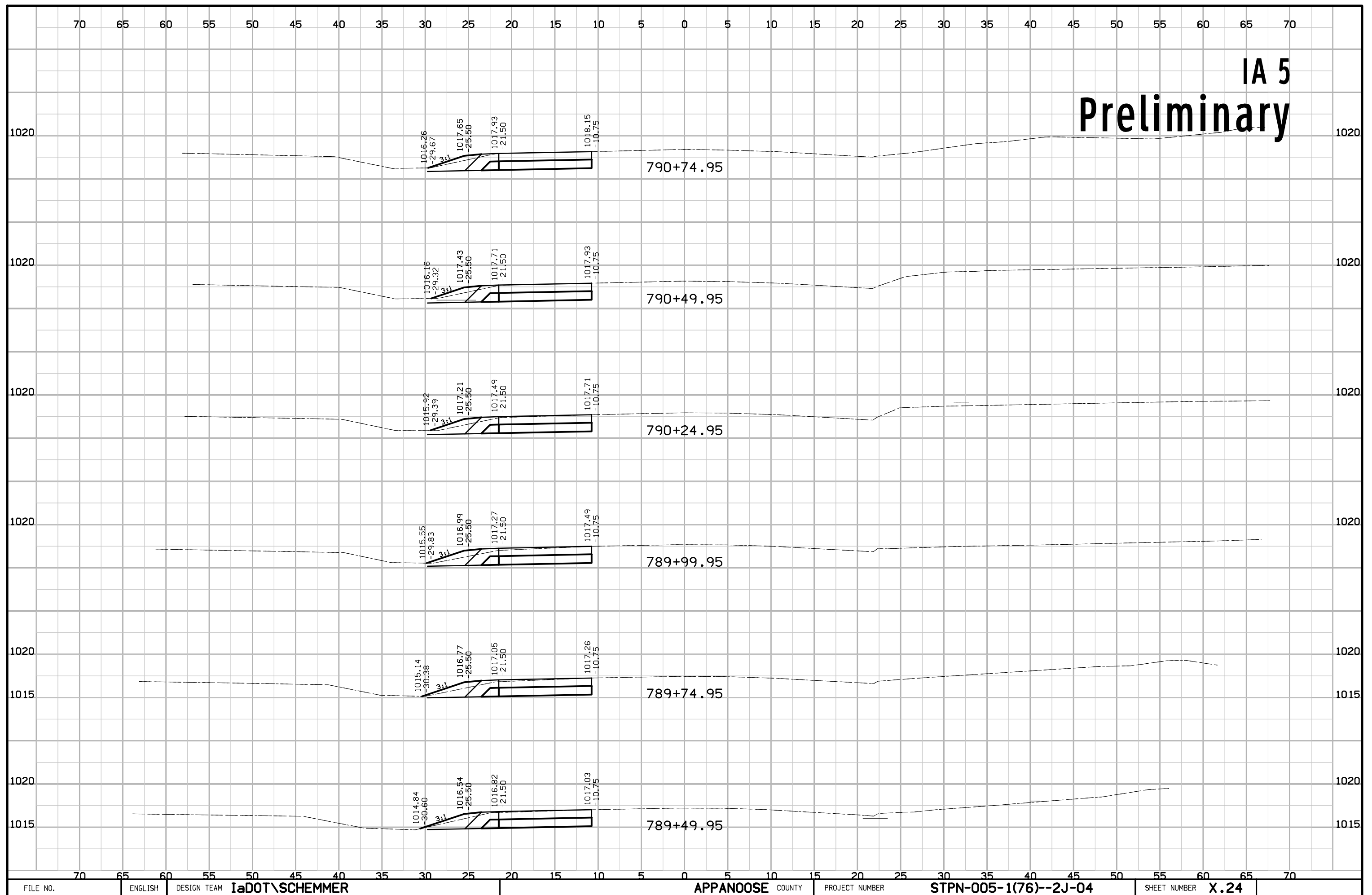


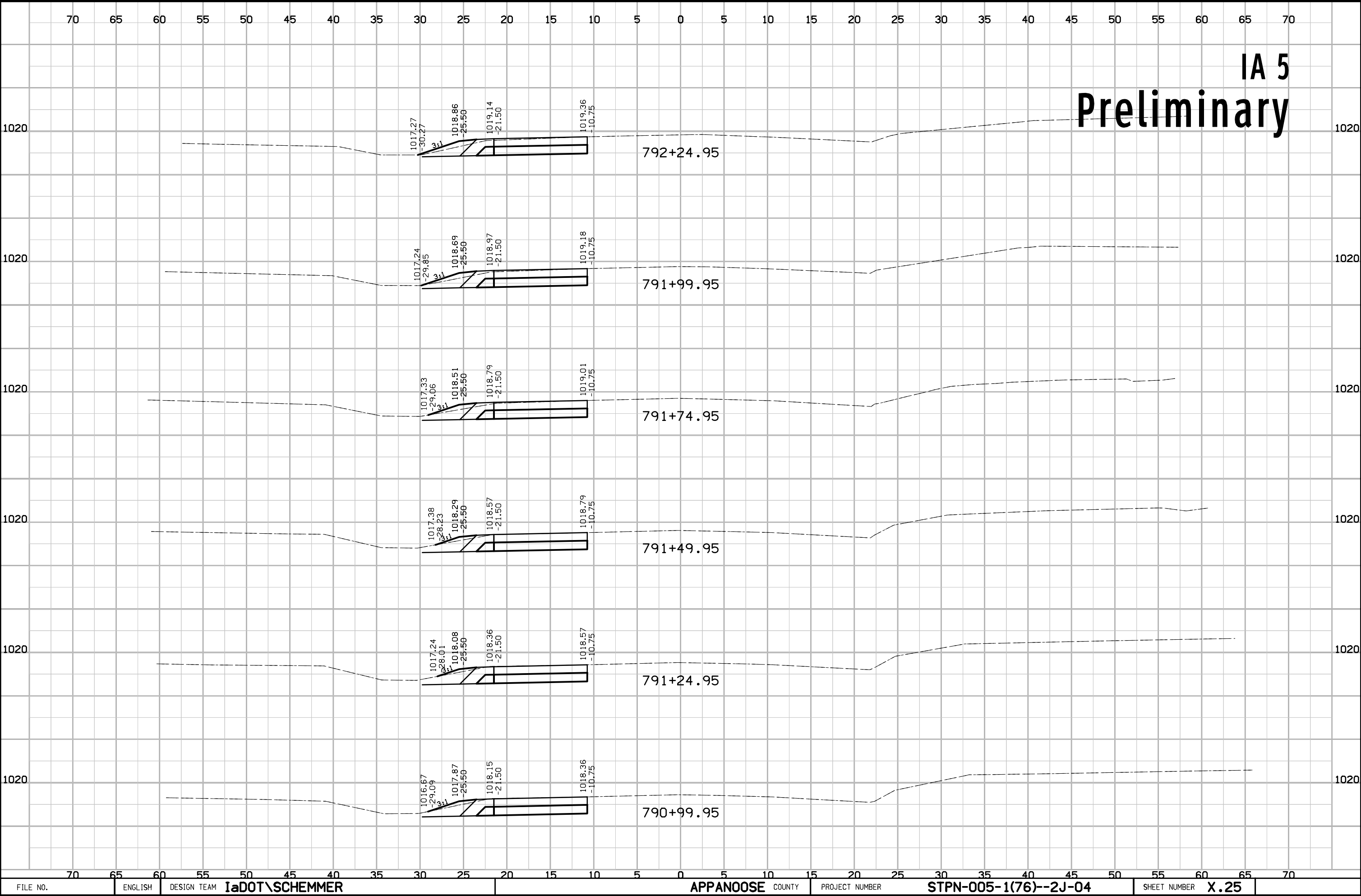
IA 5
Preliminary

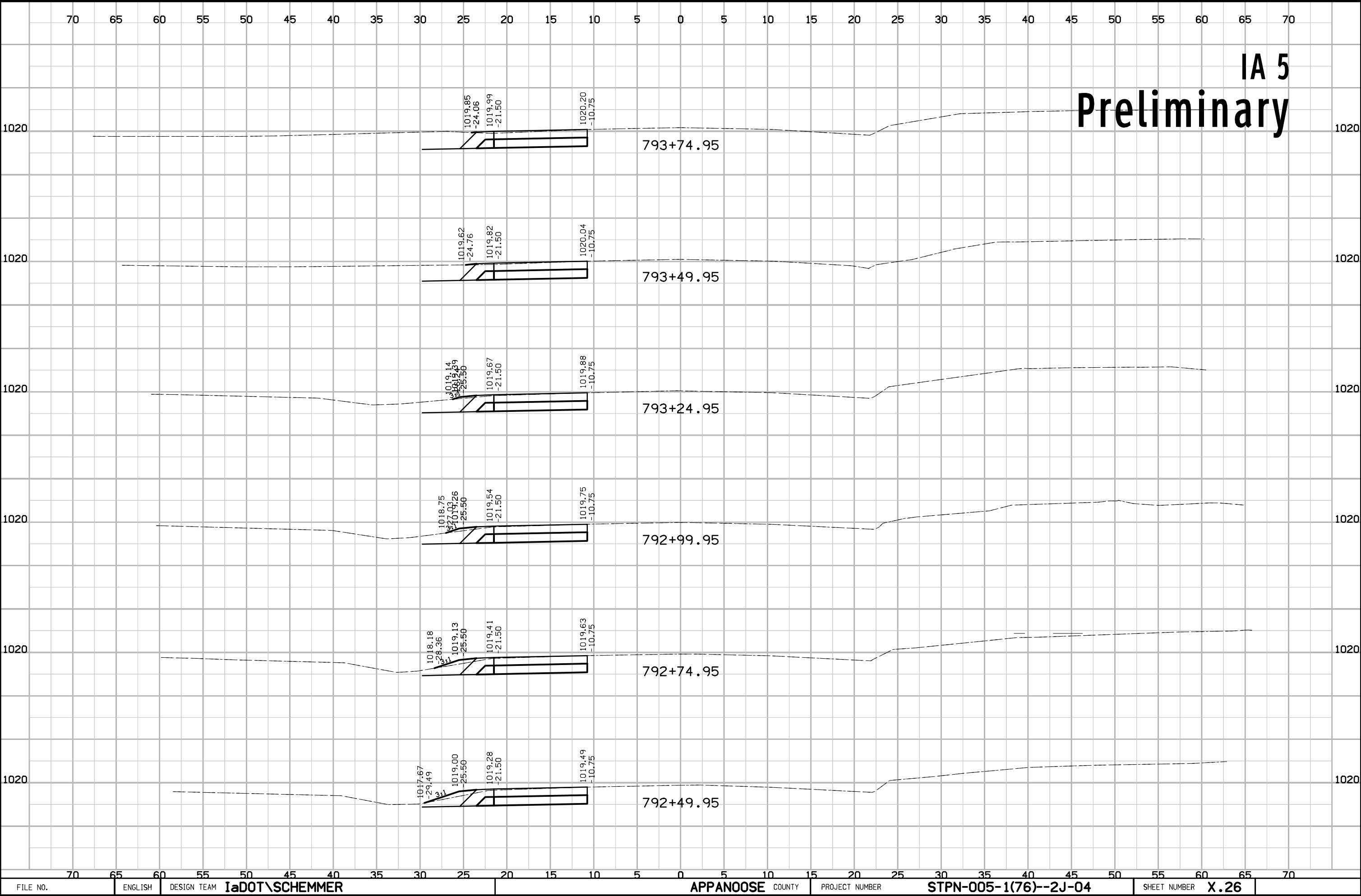




IA 5 Preliminary







IA 5
Preliminary

