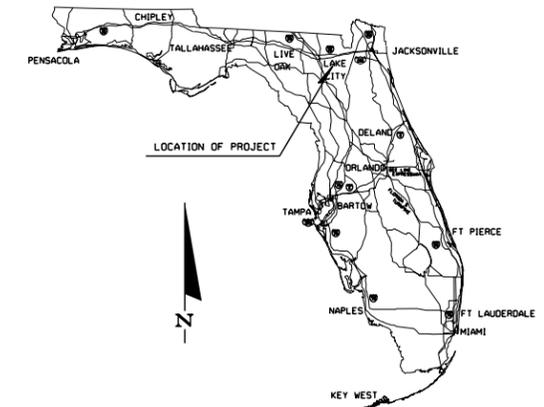


ACADEMIC AVENUE ROADWAY IMPROVEMENTS

CONSTRUCTION PLANS

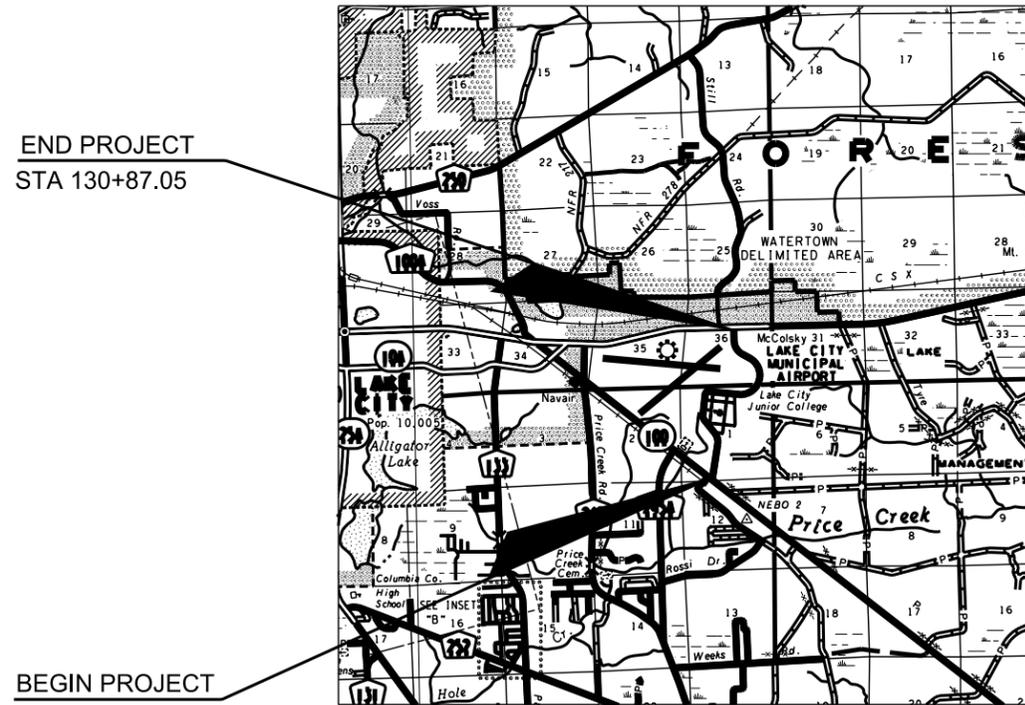
STA 10+00.00 TO 130+87.05

FOR:
Columbia County Engineer
Chad Williams, P.E.
PO Box 1529
Lake City, FL 32055
Phone: (386) 758-1005



LEGEND			
EXISTING	PROPOSED		
CONCRETE MONUMENT FOUND	□	TELEPHONE POLE	⊙
IRON PIPE FOUND	○	TELEPHONE MANHOLE	⊙
ELECTRIC METER	⊙	ELECTRIC MANHOLE	⊙
ELECTRIC MANHOLE	⊙	ELECTRIC METER	⊙
LIGHT STANDARD	⊙	LIGHT	⊙
POWER POLE	⊙	STANDARD POWER POLE	⊙
SHARED POWER POLE W/ TRANSFORMER	⊙	POWER POLE SHARED	⊙
SHARED POWER POLE	⊙	POWER POLE SHARED W/ TRANSFORMER	⊙
TELEPHONE POLE	⊙	GAS METER	⊙
REDUCER	▽	GAS VALVE	⊙
WATER METER	⊙	WATER METER	⊙
WATER VALVE	⊙	WATER VALVE	⊙
FIRE HYDRANT	⊙	WATER REDUCER	⊙
BACKFLOW PREVENTER	⊙	WATER TEE	⊙
SANITARY SEWER VALVE	⊙	WATER 90° BEND	⊙
SANITARY MANHOLE	⊙	SINGLE WATER SERVICE	⊙
STORMWATER MANHOLE	⊙	DOUBLE WATER SERVICE	⊙
FDOT STORMWATER MANHOLE	⊙	FIRE HYDRANT	⊙
GROUND CONTOUR	—	BACKFLOW PREVENTER	⊙
D.O.T. MARKER FOUND	*	SANITARY MANHOLE	⊙
GAS METER	⊙	SANITARY VALVE	⊙
GAS VALVE	⊙	SANITARY SINGLE SERVICE	⊙
SOIL BORING LOCATION	⊙	SANITARY DOUBLE SERVICE	⊙
SINGLE POST SIGN	⊙	GROUND CONTOUR	—
BENCH MARK	⊙	DITCH BLOCK	⊙
SECTION CORNER	⊙	STORMWATER MANHOLE	⊙
RIGHT OF WAY	---	FLOW ARROW	→
PROPERTY LINE	---	HANDICAP PARKING	⊙
		MITERED END	⊙
		SIGN	⊙
		RIGHT OF WAY	---

ABBREVIATIONS			
PL	PROPERTY LINE	IP	IRON PIPE
CL	CENTER LINE	MH	MANHOLE
BL	BASE LINE	G	GAS
SAN	SANITARY SEWER	UC	UNDERGROUND CABLE
ST	STORM SEWER	OC	OVERHEAD CABLE
E	ELECTRIC	W	WATER LINE
OHE	OVERHEAD ELECTRIC	HDPE	HIGH-DENSITY POLYETHYLENE
UG	UNDERGROUND ELECTRIC	RCP	REINFORCED CONCRETE PIPE-ROUND
OHT	OVERHEAD TELEPHONE	RCPA	REINFORCED CONCRETE PIPE-ARC
UT	UNDERGROUND TELEPHONE	RCPE	REINFORCED CONCRETE PIPE-ELLIPTICAL
R	RADIUS	CMP	CORRUGATED METAL PIPE-ROUND
CO	CLEANOUT	CMPA	CORRUGATED METAL PIPE-ARC
BM	BENCH MARK	BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
IE	INVERT ELEVATION	BCCSP	BITUMINOUS COATED CORRUGATED STEEL PIPE
LF	LINEAR FEET		

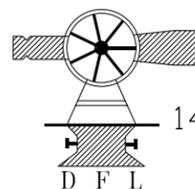


LOCATION MAP
SECTION 36&1 TOWNSHIP 3&4 SOUTH, RANGE 17 EAST
COLUMBIA COUNTY, FLORIDA

FINAL PLANS

INDEX OF SHEETS	
KEY1	KEY SHEET
DET1	GENERAL NOTES AND TYPICAL SECTIONS
PP1 - PP7	PLAN / PROFILE SHEETS
SWM1	DRAINAGE IMPROVEMENTS
XSC1-XSC14	CROSS SECTIONS
	APPLICABLE FDOT STANDARDS

COLUMBIA COUNTY PROJECT # 2013-02
FINANCIAL PROJECT ID: 426040-1-58-01



Donald F. Lee and Associates, Inc.

SURVEYORS - ENGINEERS

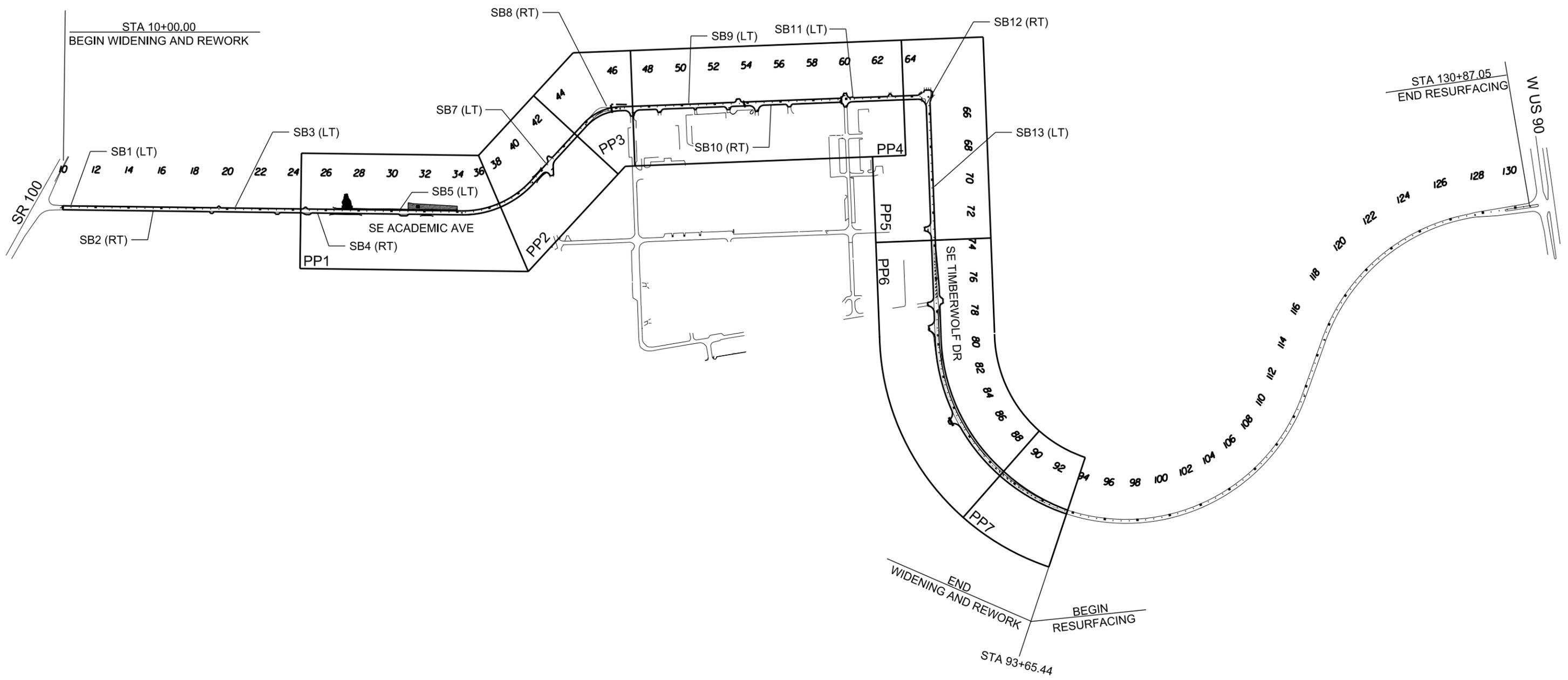
140 Northwest Ridgewood Avenue, Lake City, Florida 32055

Phone: (386) 755-6166 FAX: (386) 755-6167

Surveying Certificate of Authorization # LB 7042

Engineering Certificate of Authorization # 29834

BRETT A. CREWS, P.E. 65592



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



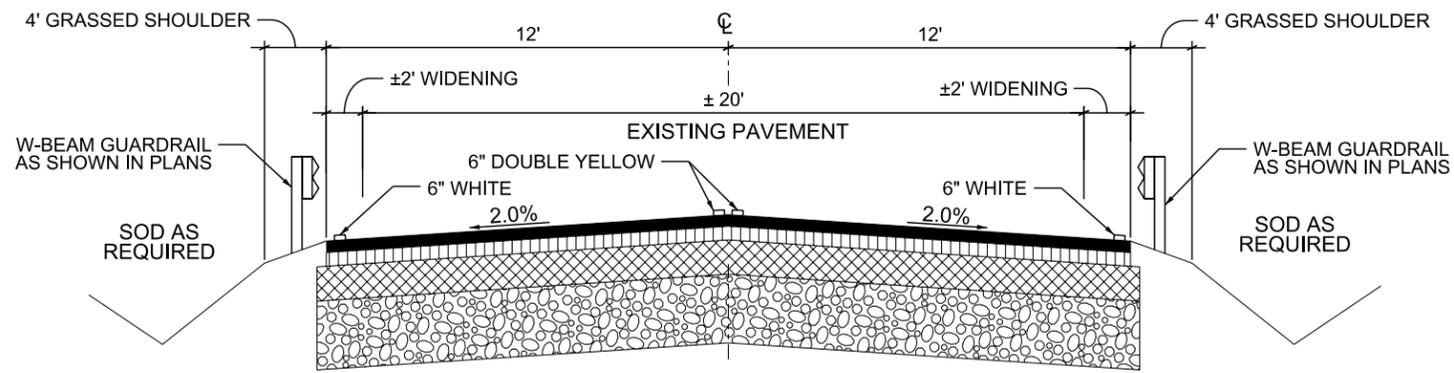
Donald F. Lee and Associates, Inc.
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 BC

**ACADEMIC AVENUE
 ROADWAY IMPROVEMENTS**
 KEY SHEET

PROJECT NO.:
 2012-021
 SHEET:
 KEY1



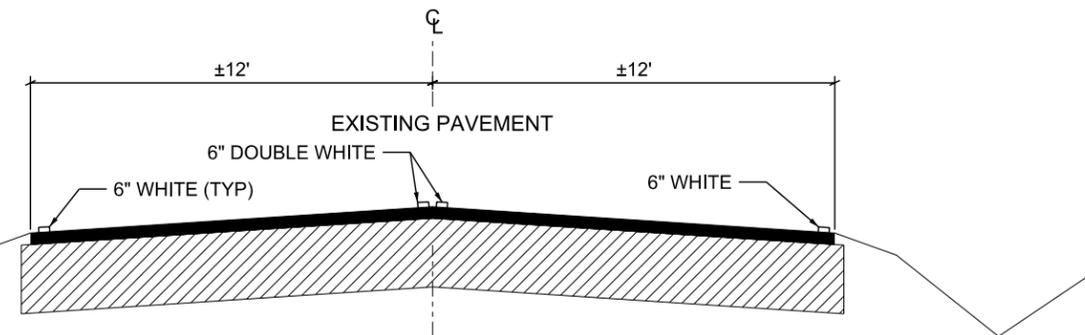
STA 10+00.00 TO STA 93+65.44

SEE PROPOSED CROSS SECTIONS FOR EXACT DIMENSIONS AND ELEVATIONS:
 STA 26+94.96 TO STA 48+13.94
 STA 74+11.65 TO STA 93+65.44

- MIXED MATERIALS - 12" MIN DEPTH (WIDTH 24'-6") (TURN LANE WIDTH 36'-6")
- 4" LIMEROCK BASE TO BE MIXED WITH EXISTING MATERIALS
- SP 12.5 @ 165 LBS/SY
- SP 9.5 @ 135 LBS/SY - VIRGIN MIX

ALL FINAL STRIPING SHALL BE APPLIED IN TWO APPLICATIONS
 SEE GENERAL REQUIREMENTS FOR DETAILS

TYPICAL CROSS SECTION - 1 (REWORK AND WIDENING)
 NTS



STA 93+65.44 TO STA 130+87.05

- EXISTING PAVEMENT TO REMAIN
- SP 9.5 @ 135 LBS/SY - VIRGIN MIX

ALL FINAL STRIPING SHALL BE APPLIED IN TWO APPLICATIONS
 SEE GENERAL REQUIREMENTS FOR DETAILS

TYPICAL SECTION - 2 (RESURFACING)
 NTS

GENERAL NOTES

- The contractor shall verify all existing conditions and dimensions at the job site to insure that all new work will fit in the manner intended on the plans. Should any conditions exist that are contrary to those shown on the plans, the contractor shall notify the engineer of such differences immediately prior to proceeding with the work.
- The contractor shall maintain the construction site at all times in a secure manner. All open trenches and excavated areas shall be protected from access by the general public.
- All construction proposed in these plans shall conform to the latest editions of the FDOT Design Standards.
- Contractor shall provide an as-built survey meeting the requirements of Chapter 61G17 F.A.C. for the stormwater management systems. Include horizontal and vertical dimensional data so that improvements are located and delineated relative to the boundary. Provide sufficient detailed data to determine whether the improvements were constructed in accordance with the plans. Submit the survey to the engineer on reproducible 20 lb. vellum.
- All erosion control measures shall be implemented prior to construction and be continued until construction is complete. Contractor shall take necessary measures to minimize erosion, turbidity, nutrient loading and sedimentation to adjacent lands and low areas. The Erosion and Sediment Control Plan shall be maintained as designed and upgraded as needed as directed by Engineer or SRWMD personnel. Construction designs and specifications as outlined by the "Florida Erosion and Sediment Control Inspectors Manual" shall be adhered to.
- Any boundary and topographical information shown was obtained from a survey performed by Donald Lee and Associates, Inc., Florida Certificate No. 7042
- Any public land corner within the limits of construction is to be protected. If a corner monument is in danger of being destroyed and has not been properly referenced, the contractor should notify the engineer.
- Underground utility lines will require adjustment. Contractor will coordinate with utility company.

- An energy dissipation and rubble pad shall be placed at the bottom of all collection flumes and collection pipe outlets.
- Sod to be certified Bermuda sod. At a minimum, a 42" sod strip shall be layed along the edge of payment and curb/gutter. In addition, all disturbed shall be sodded.
- The stormwater system is designed in accordance with SRWMD.
- Contractor shall sod all slopes of 4' horizontal to 1' vertical and staple sod all slopes of 2' horizontal to 1' vertical or greater.
- All stormwater pipes shall have a minimum cover of 6". Use Limerock backfill if pipe under pavement has less than 12" cover.

GENERAL REQUIREMENTS

- Project will consist of:
 - Reworking the existing roadway with widening from Asphalt joint @ SR 100 to Beginning of Turn Lane (±6,412 LF). The existing 20 feet (ft) width pavement will be reconstructed to provide a 24 ft wide paved surface.
 - Reworking the existing roadway with widening from Beginning of Turn Lane to End of Turn Lane (±1,954 LF). The existing ±34 ft width pavement will be reconstructed to provide a 36 ft wide paved surface.
 - Resurfacing of existing pavement from End of Turn Lane to US 90 (±3,722 LF)
 - See typical sections for stationing.

The existing pavement consists of a limerock base and asphaltic concrete surface course. Pavement cores are included with the construction plans for information.

II. Contract Time

The contract time will be 150 calendar days from the date of contract execution. Liquidated damages shall be \$500 per calendar day. No work will be allowed on Saturdays, Sundays, and/or designated county holidays.

III. Construction and Materials

All construction and materials shall conform to the requirements of the latest edition of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction. Certification by an approved testing laboratory is required and is the responsibility of the contractor. Payment shall be as specified in the bid proposal.

IV. Bidding Requirements See Attached Bid Documents.

VI. Construction Sequence for Pavement Joint @ SR 100 to End of Turn Lane (10+00 to STA 93+65.44)

- Scarify existing shoulders (±5 ft).
- Excavate trench a minimum of 8 inches (in.) in depth to provide for a base width of 12 ft - 3 in. from roadway centerline.
- Remove all pavement in excess of 2 in. graduation from windrow.
- Add ±4 in. of limerock (loose material) across one lane of existing pavement, mix 12 in. minimum depth (milling machine required) and spread uniformly to provide 12 ft -3 in. wide base section. At proposed Turn Lane a pavement section of 36' shall be provided. Material sample will be required at 1000 ft intervals throughout entire project to establish proctor for density test. Shape and compact mixed materials to 98% density, and maintain 2% cross slope in section. Trenching, mixing, and compaction shall be limited to one day work capability.
- Center delineation will be required at all non-working times.
- Repeat process for adjacent lane.
- Provide finish surface and prime.
- Place asphaltic concrete (SP 12.5 at 150lbs/SY (average)) to provide 24 ft wide surface.
- Paint centerline.
- Provide required pavement for adjoining streets and driveways as directed by engineer.
- Place required material and final dress shoulders. Place 42 in. wide sod strip along all pavement edges and sod all remaining disturbed areas.
- Place asphaltic concrete surface course (SP 9.5 at 125lbs/SY (average)) to provide 24 ft wide surface. Virgin mix required.
- Paint centerline, edge lines and stop bars at all paved intersections. Two applications required.

VIII. Maintenance of Traffic

- One traffic lane may be closed from 8:30 am to 4:30 pm only.
- Flagging will be required
- All signage to be provided by contractor
- Centerline delineation will be required during all non-working times
- Maintenance of Traffic shall conform with Florida Department of Transportation Design Standards, Latest Edition (Standard Indexes 600-670)

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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APPROVED BY:

BC

**ACADEMIC AVENUE
 ROADWAY IMPROVEMENTS**

**GENERAL NOTES
 AND TYPICAL SECTIONS**

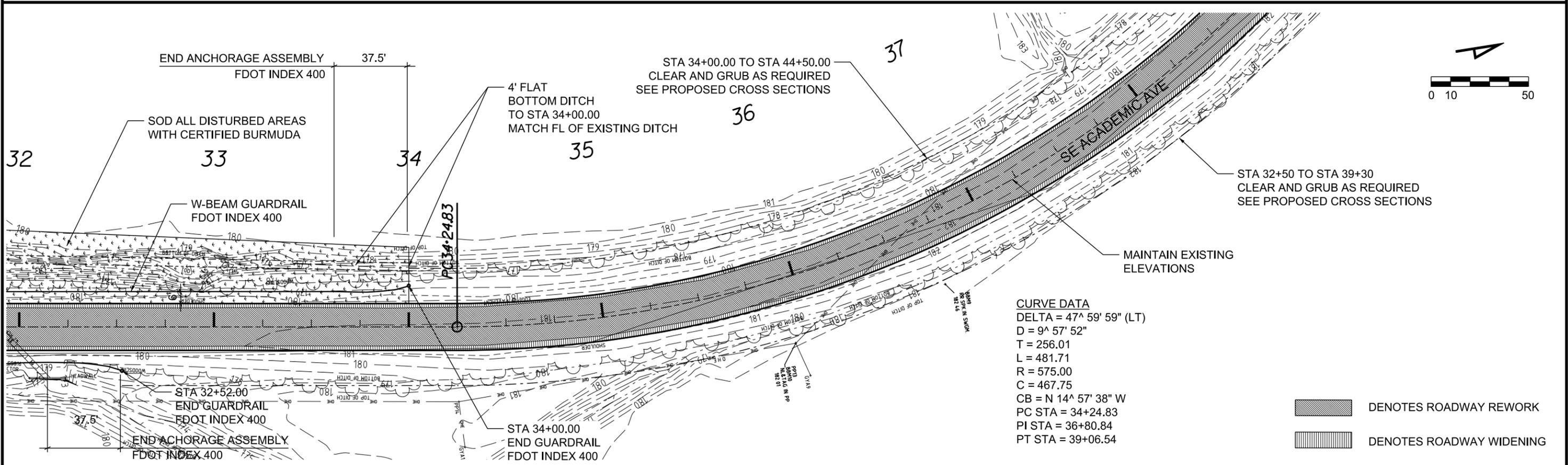
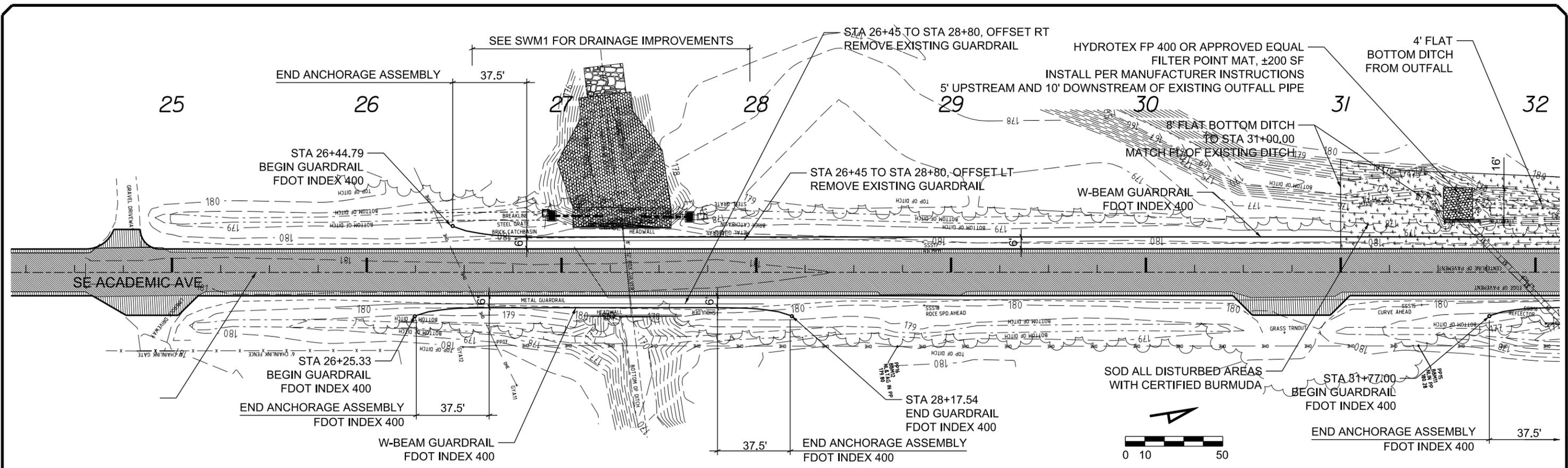
PROJECT NO.:

2012-021

SHEET:

DET1

Brett A. Crews, P.E. 65592



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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

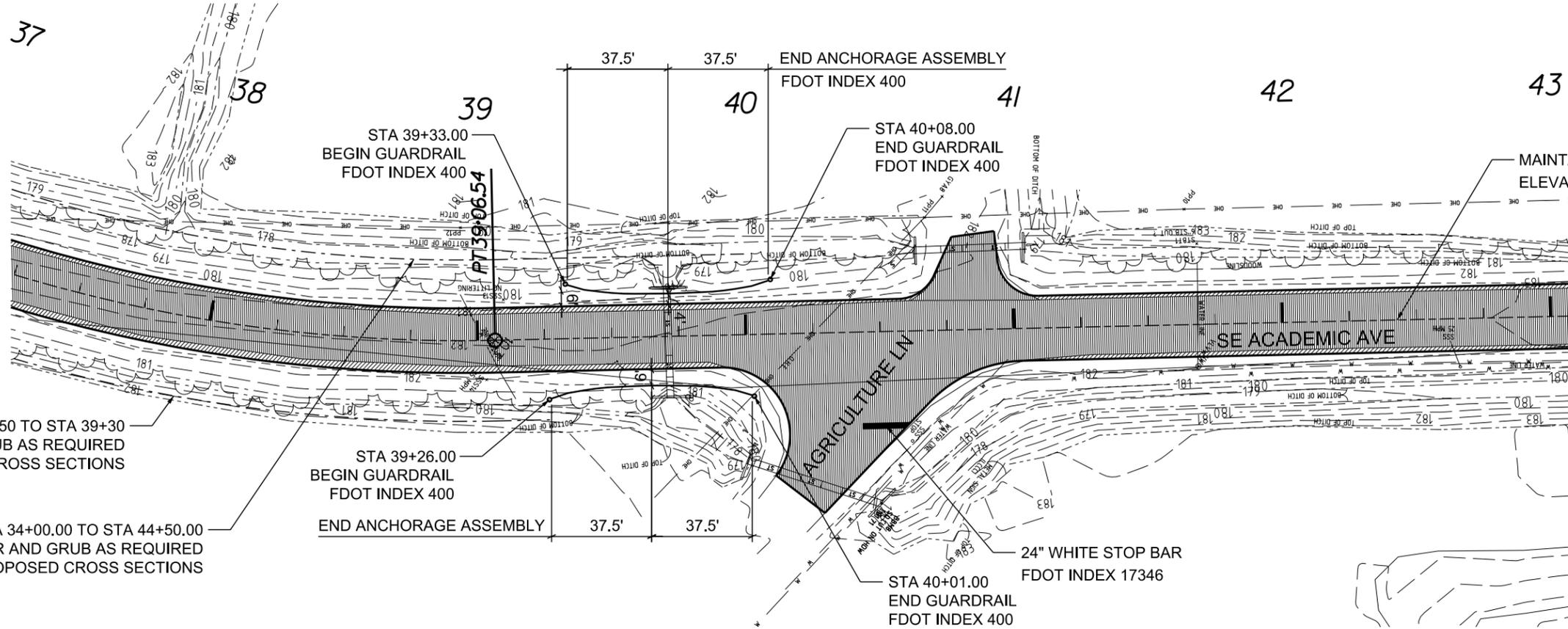

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ACADEMIC AVENUE ROADWAY IMPROVEMENTS	PROJECT NO.:	2012-021
	SHEET:	PP1

PLAN / PROFILE

37



STA 32+50 TO STA 39+30
CLEAR AND GRUB AS REQUIRED
SEE PROPOSED CROSS SECTIONS

STA 34+00.00 TO STA 44+50.00
CLEAR AND GRUB AS REQUIRED
SEE PROPOSED CROSS SECTIONS

STA 39+26.00
BEGIN GUARDRAIL
FDOT INDEX 400

END ANCHORAGE ASSEMBLY

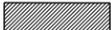
37.5' 37.5' END ANCHORAGE ASSEMBLY
FDOT INDEX 400

STA 40+08.00
END GUARDRAIL
FDOT INDEX 400

STA 40+01.00
END GUARDRAIL
FDOT INDEX 400

24" WHITE STOP BAR
FDOT INDEX 17346

MAINTAIN EXISTING
ELEVATIONS

-  DENOTES ROADWAY REWORK
-  DENOTES ROADWAY WIDENING

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Donald F. Lee and Associates, Inc.

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Brett A. Crews, P.E. 65592

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BC

APPROVED BY:

BC

**ACADEMIC AVENUE
ROADWAY IMPROVEMENTS**

PLAN / PROFILE

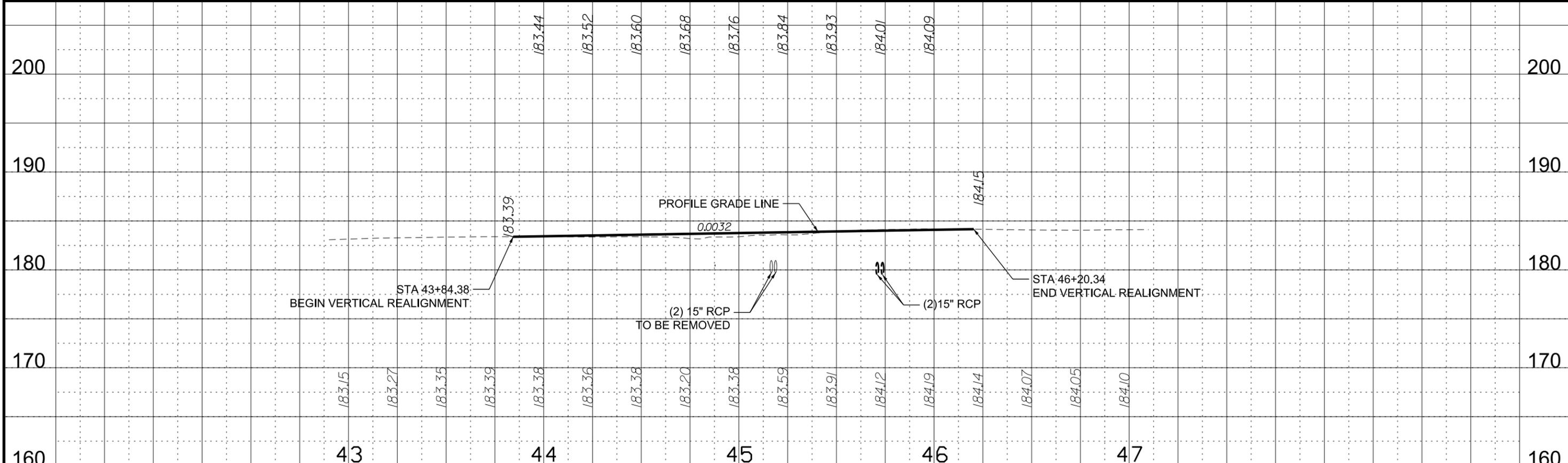
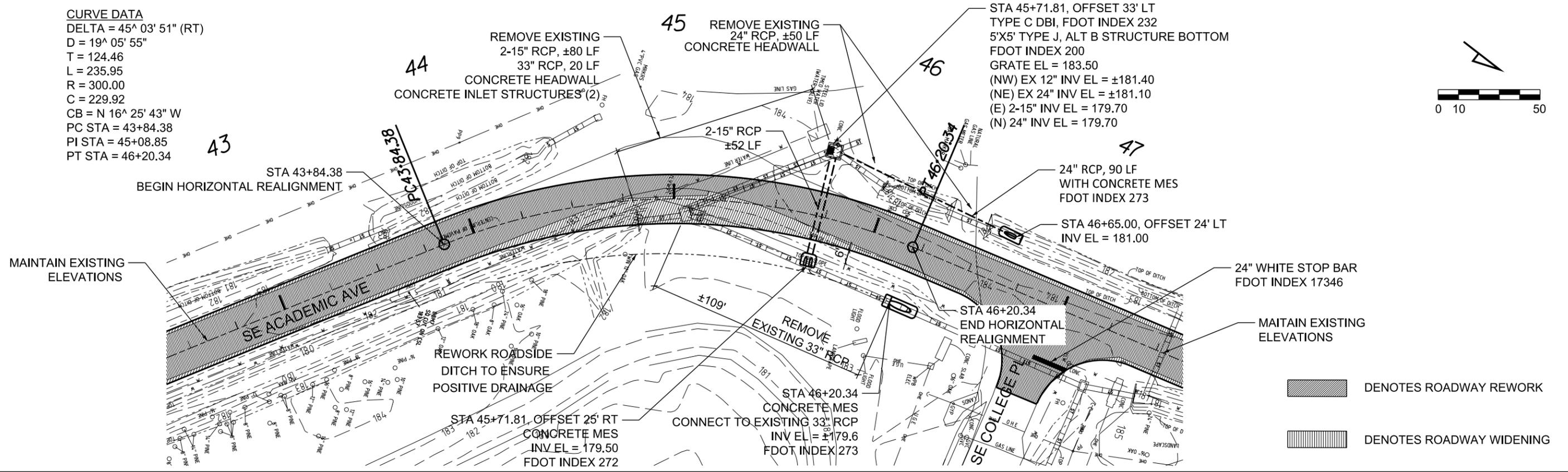
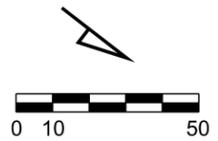
PROJECT NO.:

2012-021

SHEET:

PP2

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 D = 19' 05" 55"
 T = 124.46
 L = 235.95
 R = 300.00
 C = 229.92
 CB = N 16° 25' 43" W
 PC STA = 43+84.38
 PI STA = 45+08.85
 PT STA = 46+20.34



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**ACADEMIC AVENUE
 ROADWAY IMPROVEMENTS**
PLAN / PROFILE

CES PROJECT NO.:
2012-021
 SHEET:
PP3

Brett A. Crews, P.E. 65592

48

49

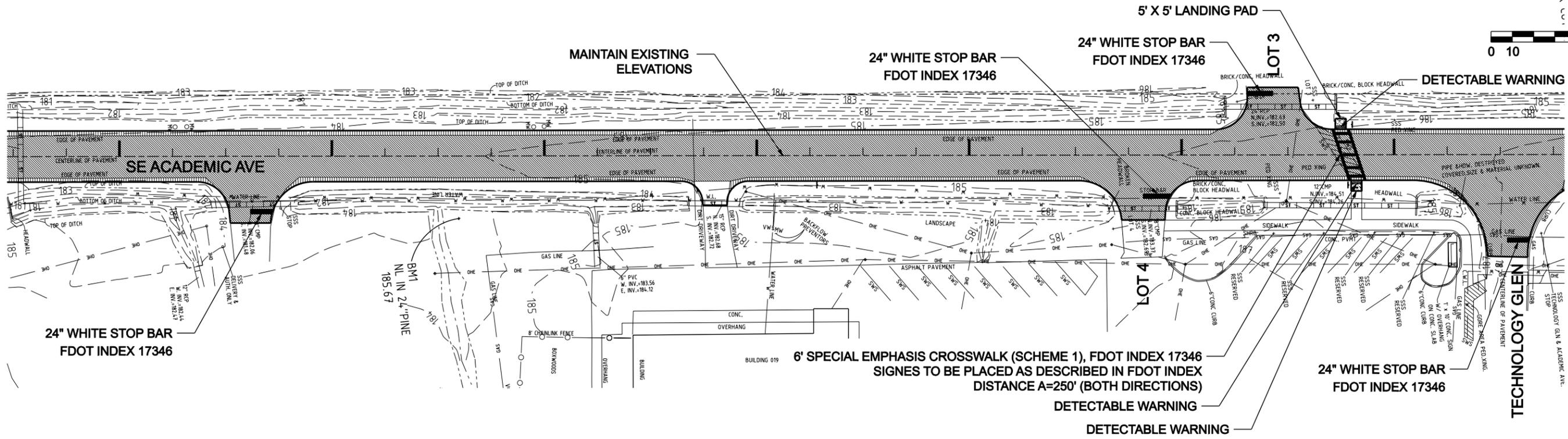
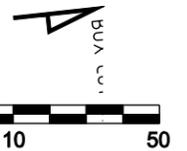
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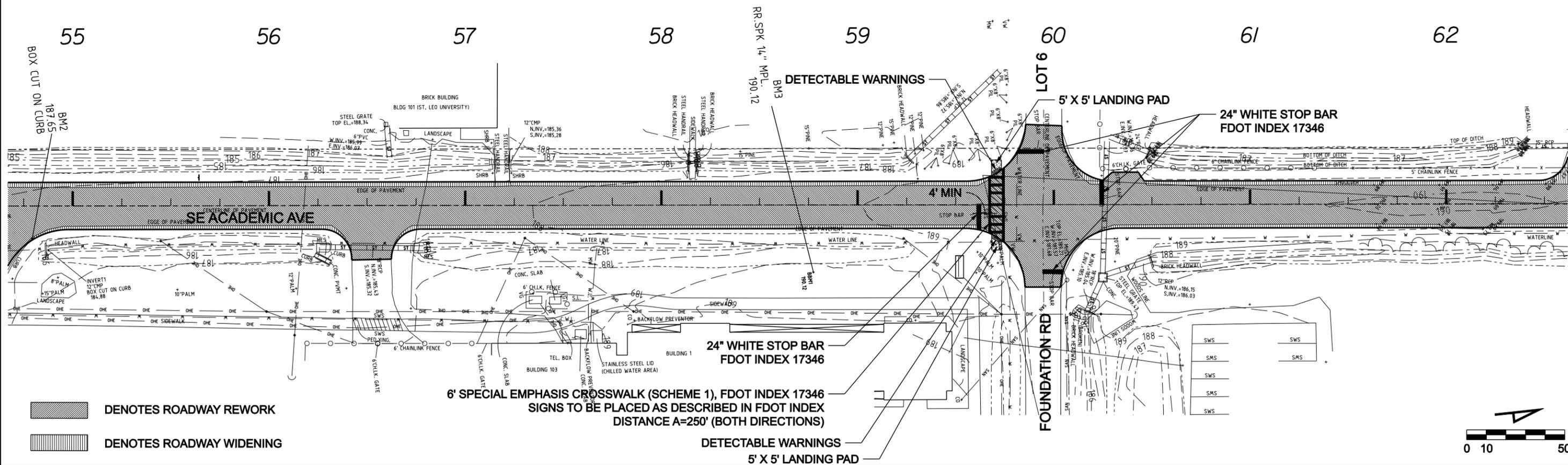
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62



- DENOTES ROADWAY REWORK
- DENOTES ROADWAY WIDENING

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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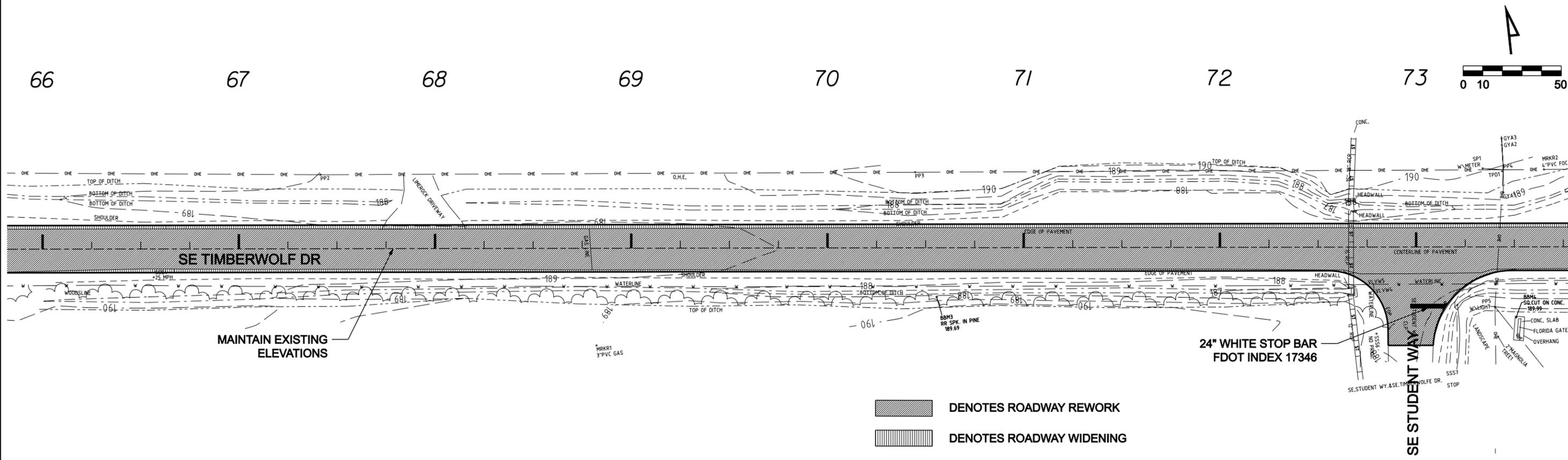
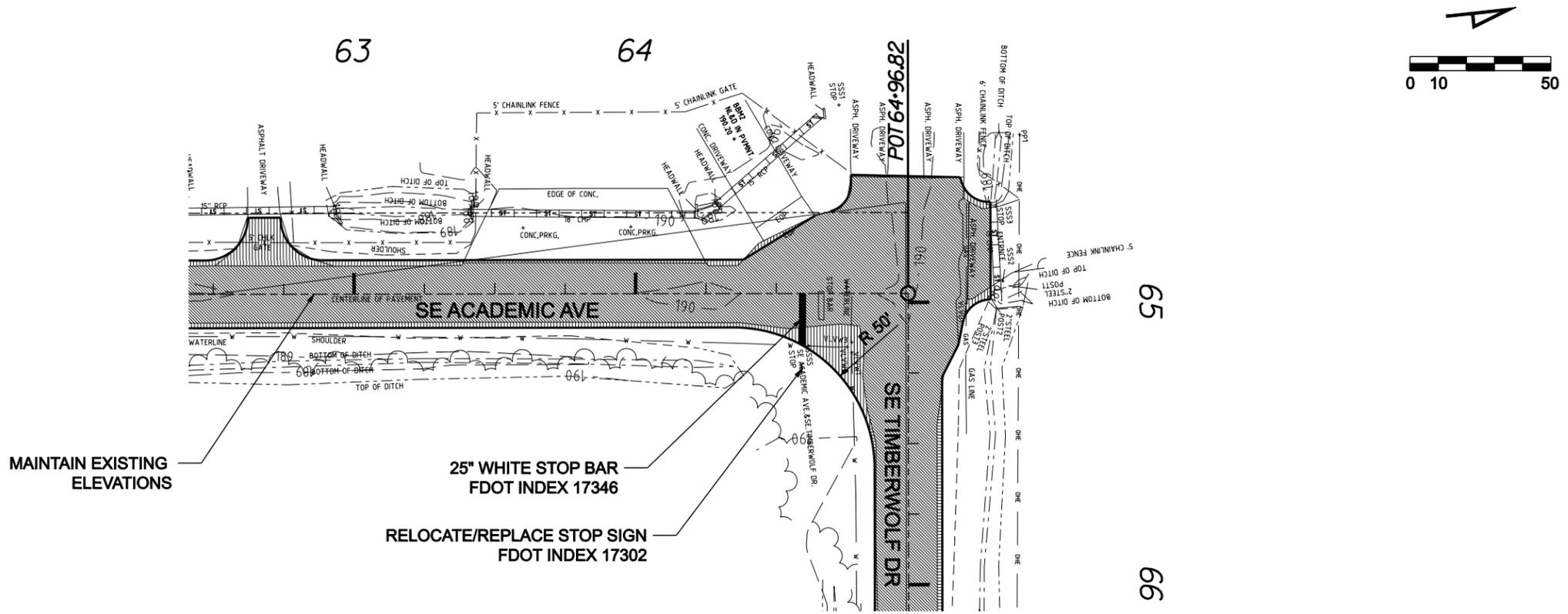
Brett A. Crews, P.E. 65592

**ACADEMIC AVENUE
 ROADWAY IMPROVEMENTS**

PLAN / PROFILE

PROJECT NO.:
2012-021

SHEET:
PP4



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



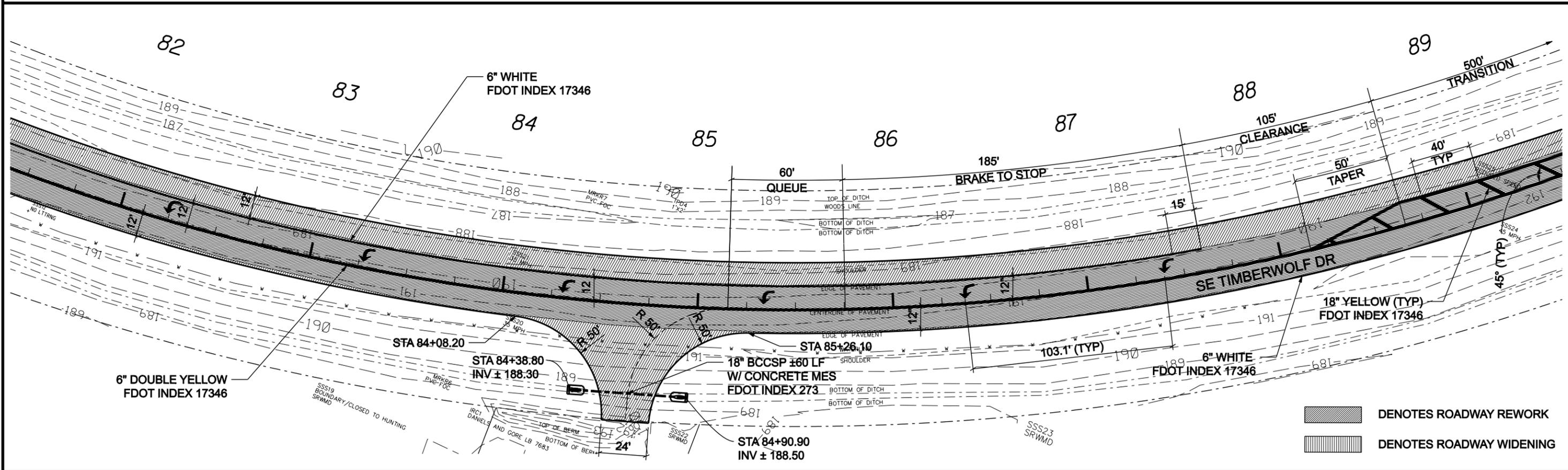
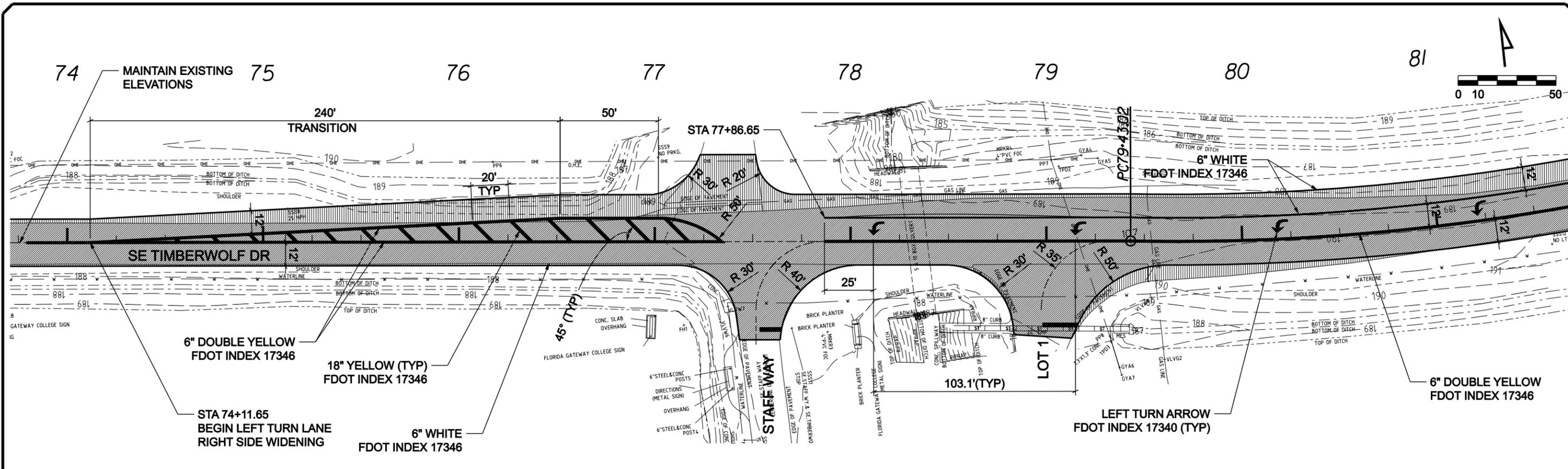
Donald F. Lee and Associates, Inc.
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 APPROVED BY:
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**ACADEMIC AVENUE
 ROADWAY IMPROVEMENTS**
PLAN / PROFILE

PROJECT NO.:
2012-021
 SHEET:
PP5



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

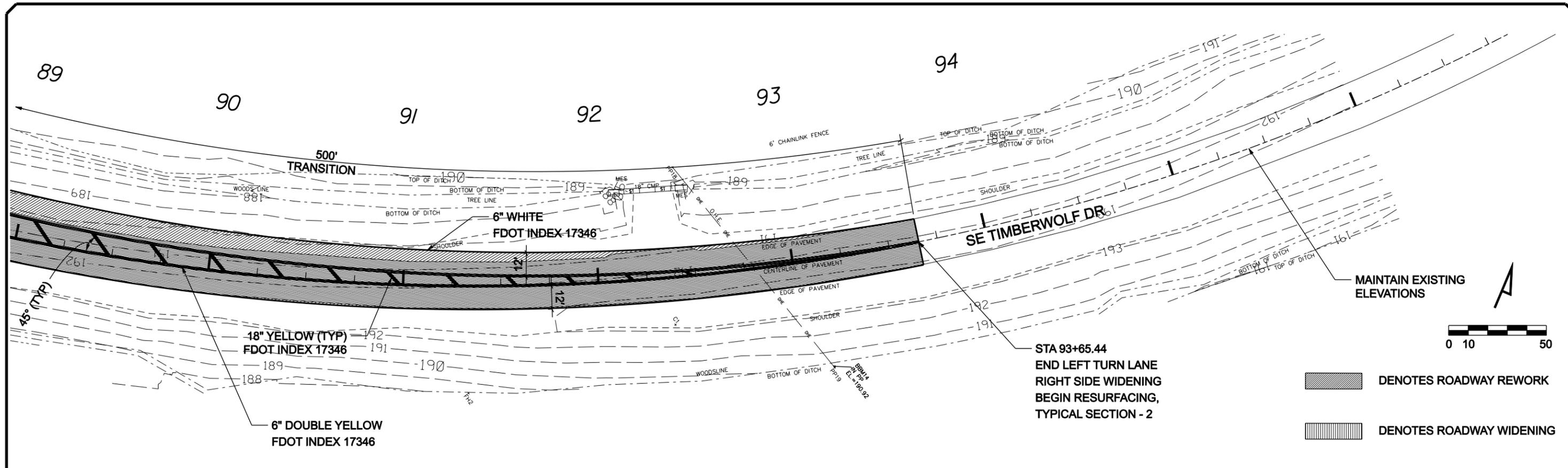

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**ACADEMIC AVENUE
ROADWAY IMPROVEMENTS**

PLAN / PROFILE

PROJECT NO.: 2012-021
 SHEET: PP6



MAINTAIN EXISTING ELEVATIONS



- DENOTES ROADWAY REWORK
- DENOTES ROADWAY WIDENING

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



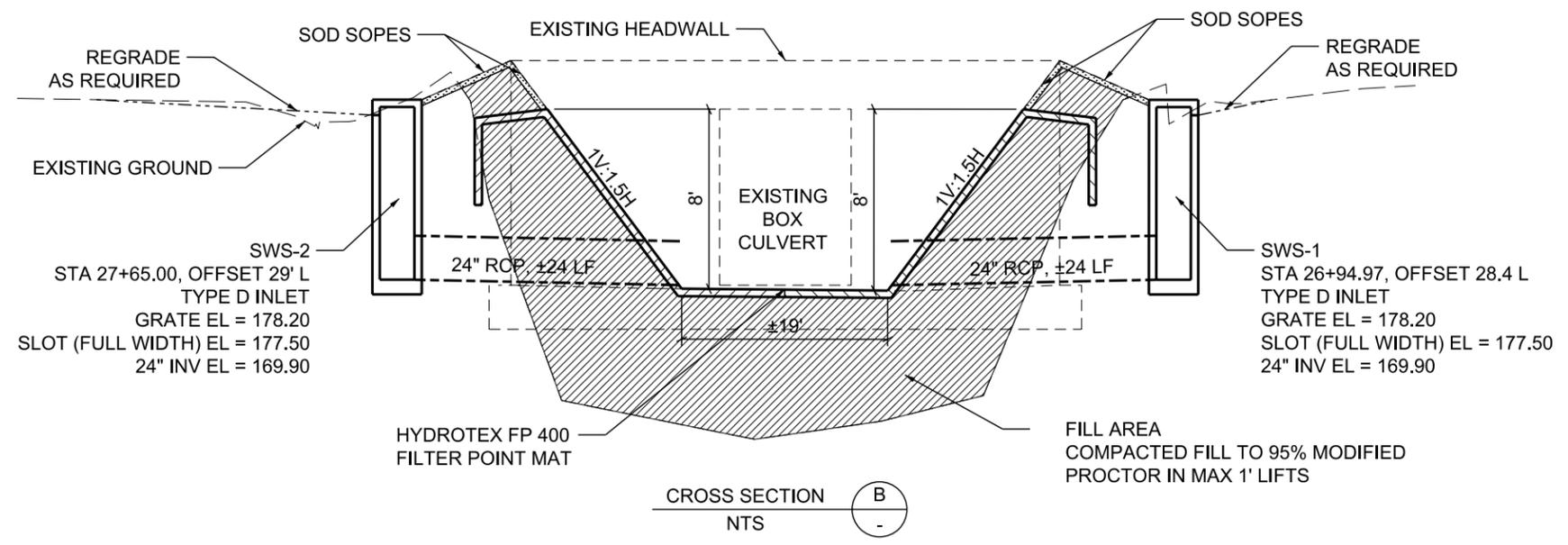
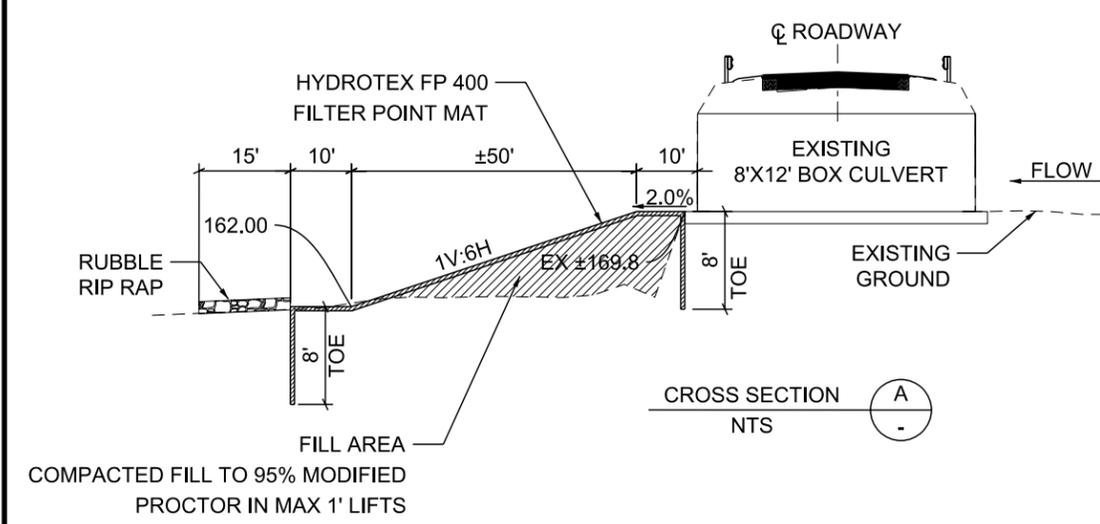
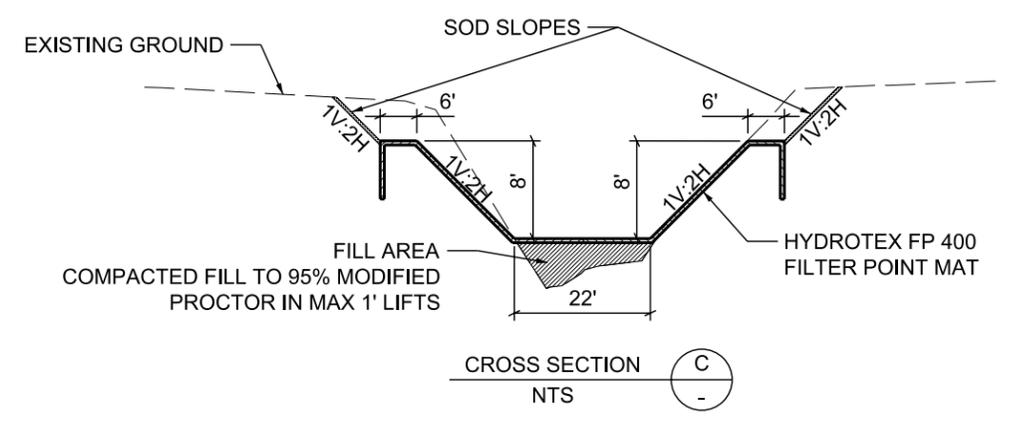
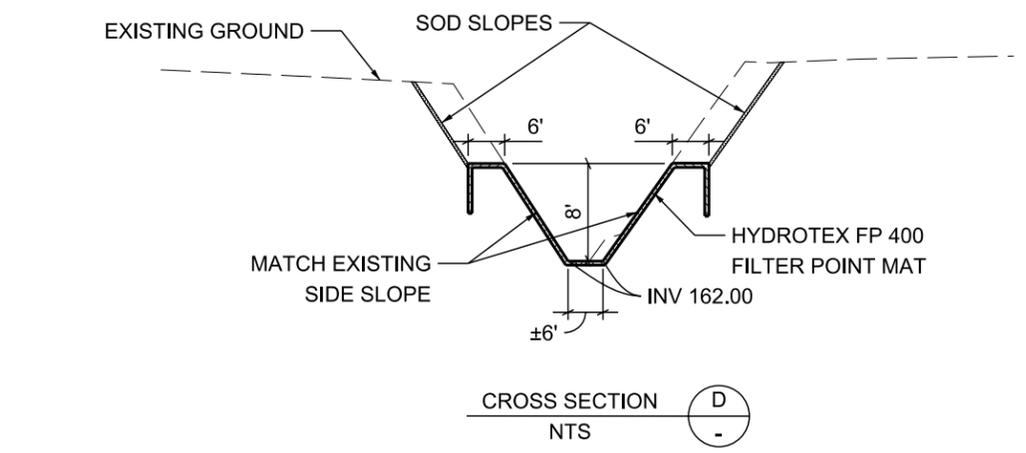
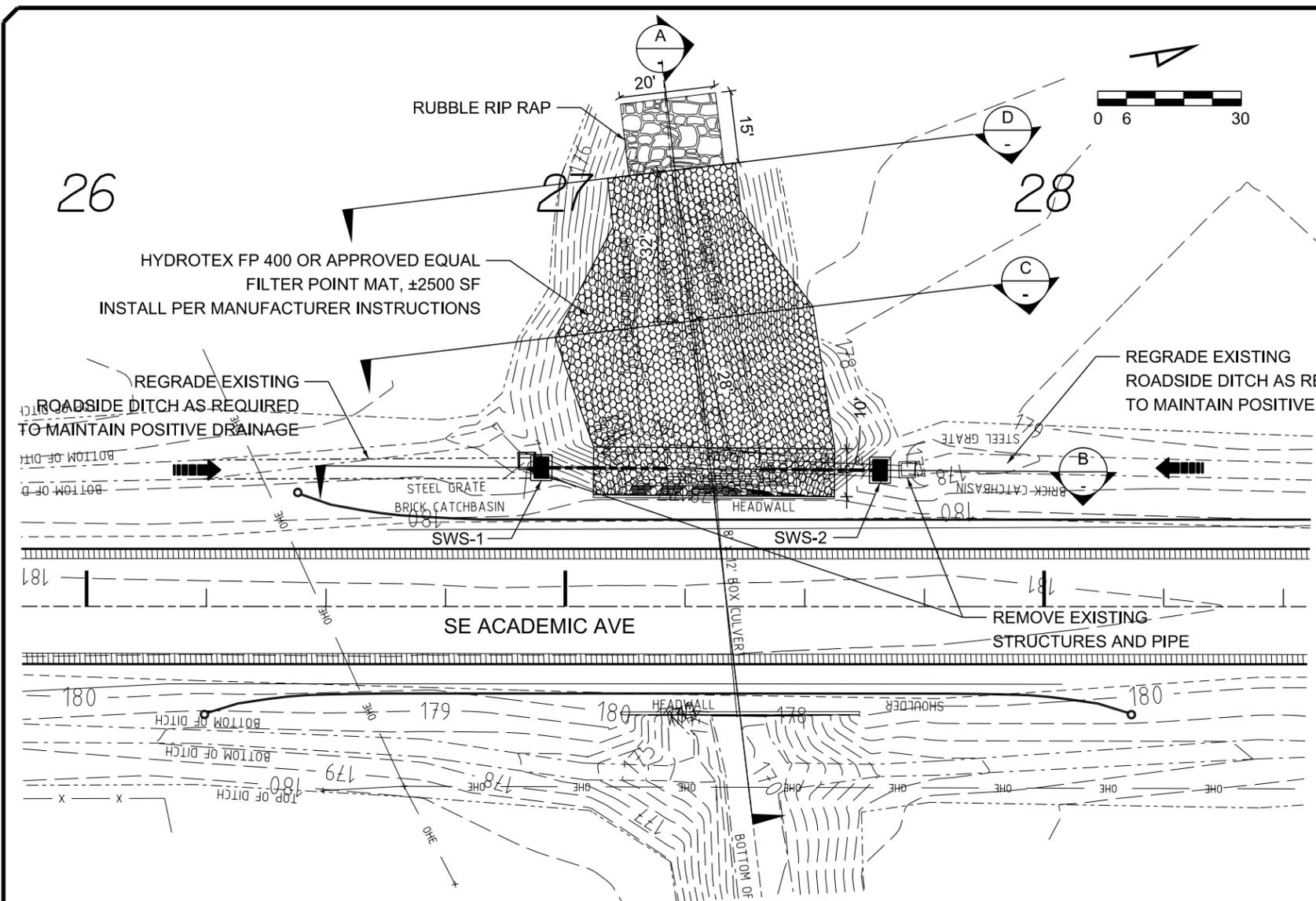
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 APPROVED BY:
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**ACADEMIC AVENUE
 ROADWAY IMPROVEMENTS**
 PLAN / PROFILE

PROJECT NO.:
2012-021
 SHEET:
PP7



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



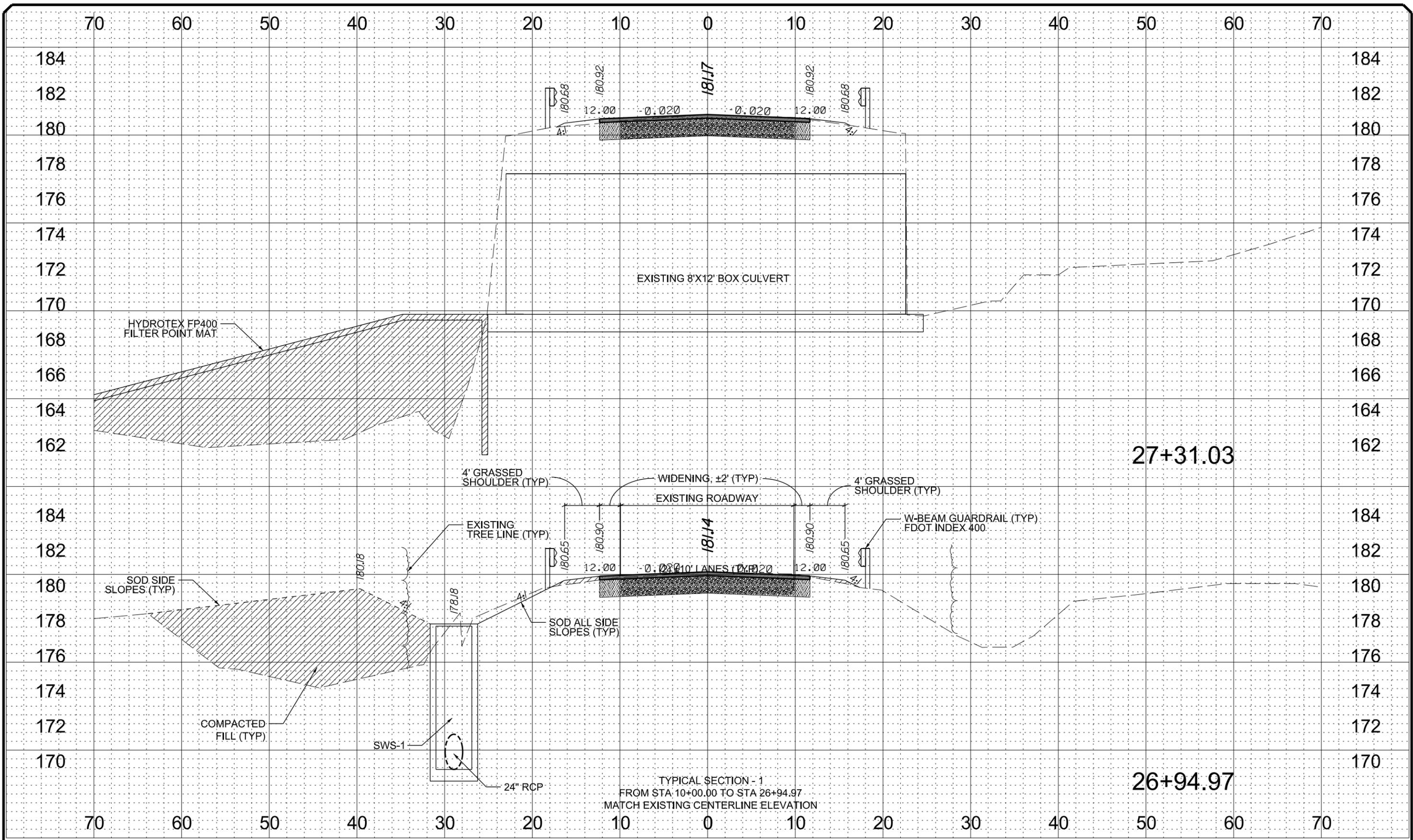
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**ACADEMIC AVENUE
 ROADWAY IMPROVEMENTS**
DRAINAGE IMPROVEMENTS

PROJECT NO.:
2012-021
 SHEET:
SWM1

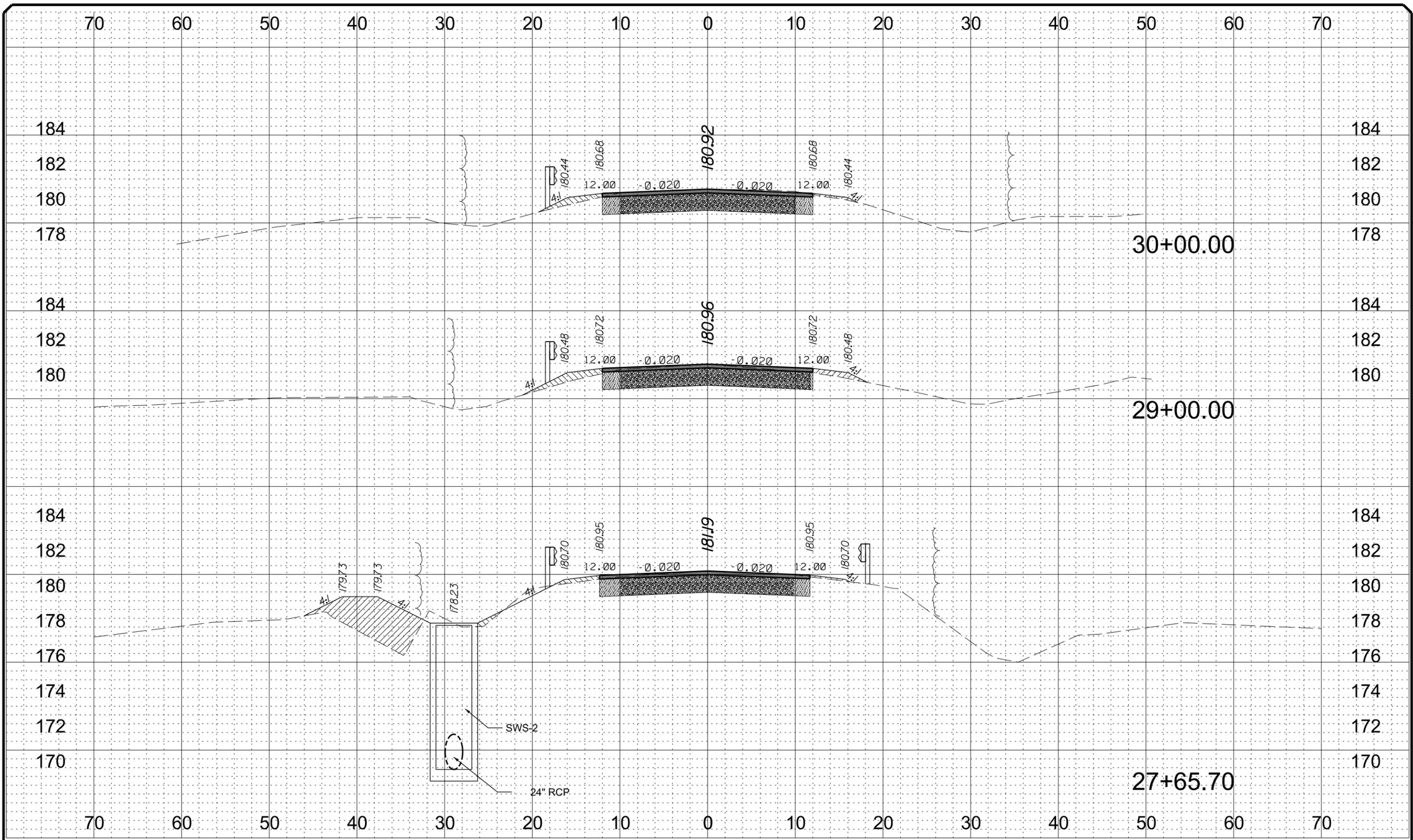


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 APPROVED BY:
 BC
 Brett A. Crews, P.E. 65592

ACADEMIC AVENUE ROADWAY IMPROVEMENTS	CES PROJECT NO.: 2012-021
CROSS SECTIONS	SHEET: XSC1



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



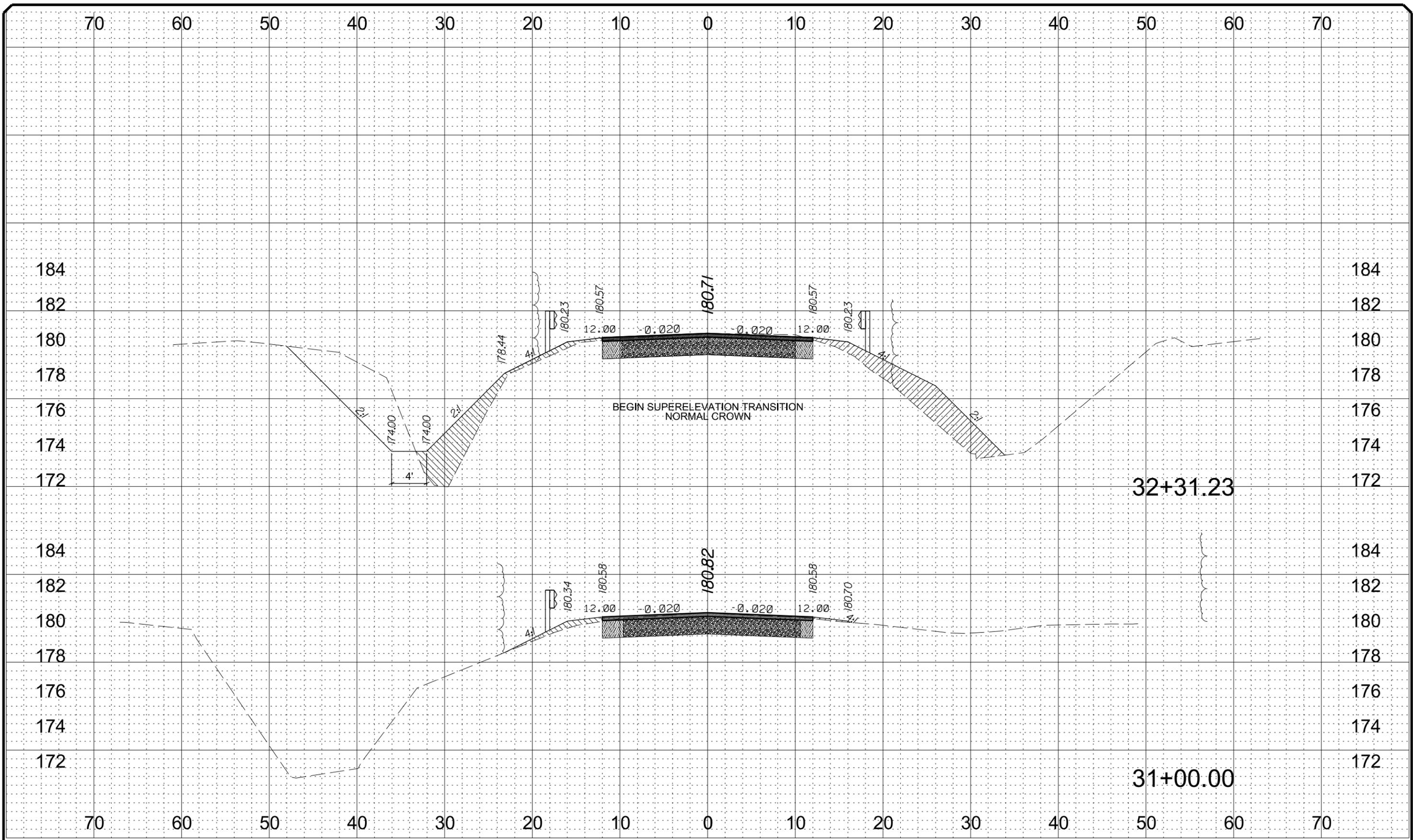
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**ACADEMIC AVENUE
 ROADWAY IMPROVEMENTS**
CROSS SECTIONS

CES PROJECT NO.:
 2012-021
 SHEET:
 XSC2

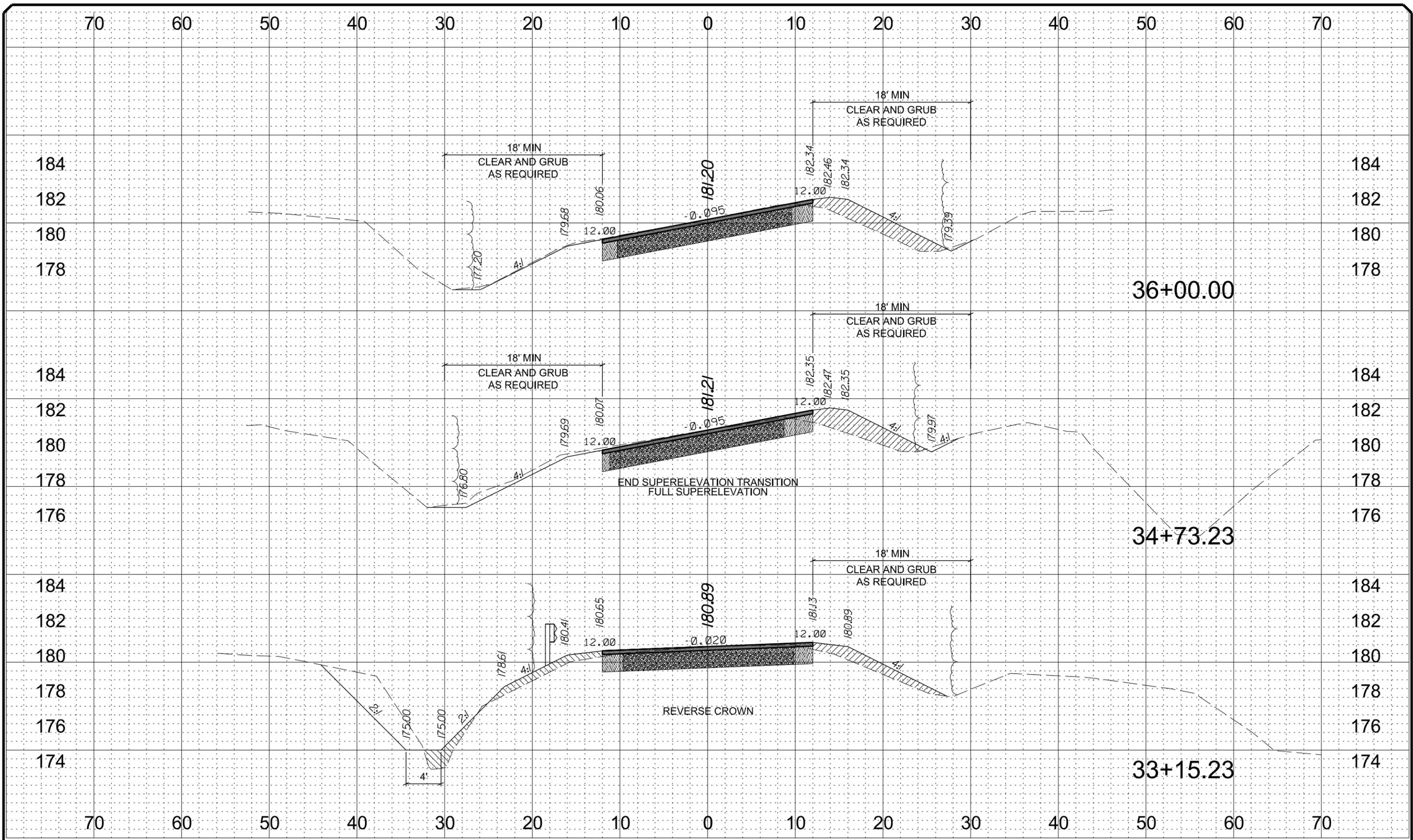


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 Brett A. Crews, P.E. 65592

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	2012-021
CROSS SECTIONS	SHEET:
	XSC3

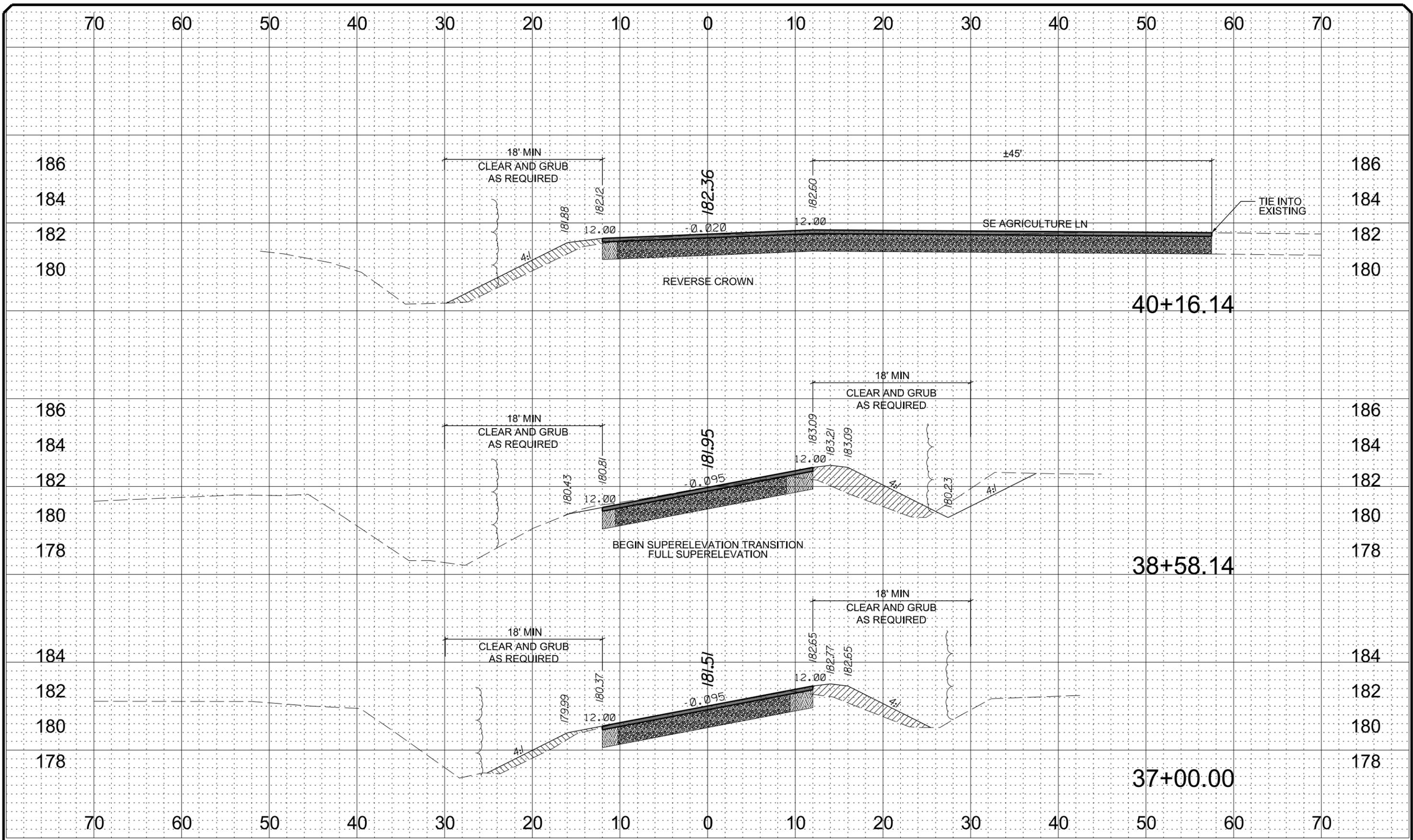


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CROSS SECTIONS	SHEET: XSC4

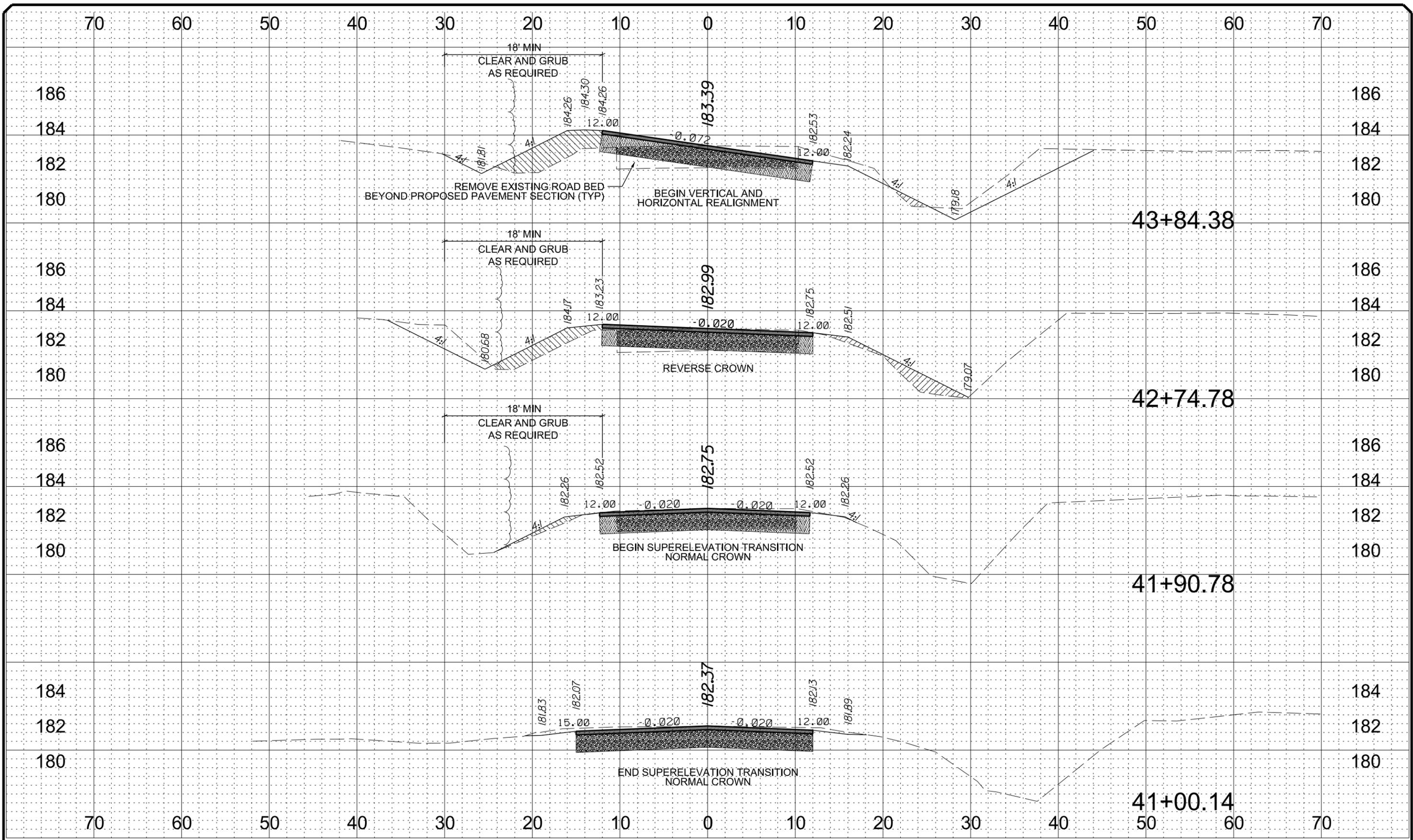


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CROSS SECTIONS	SHEET: XSC5

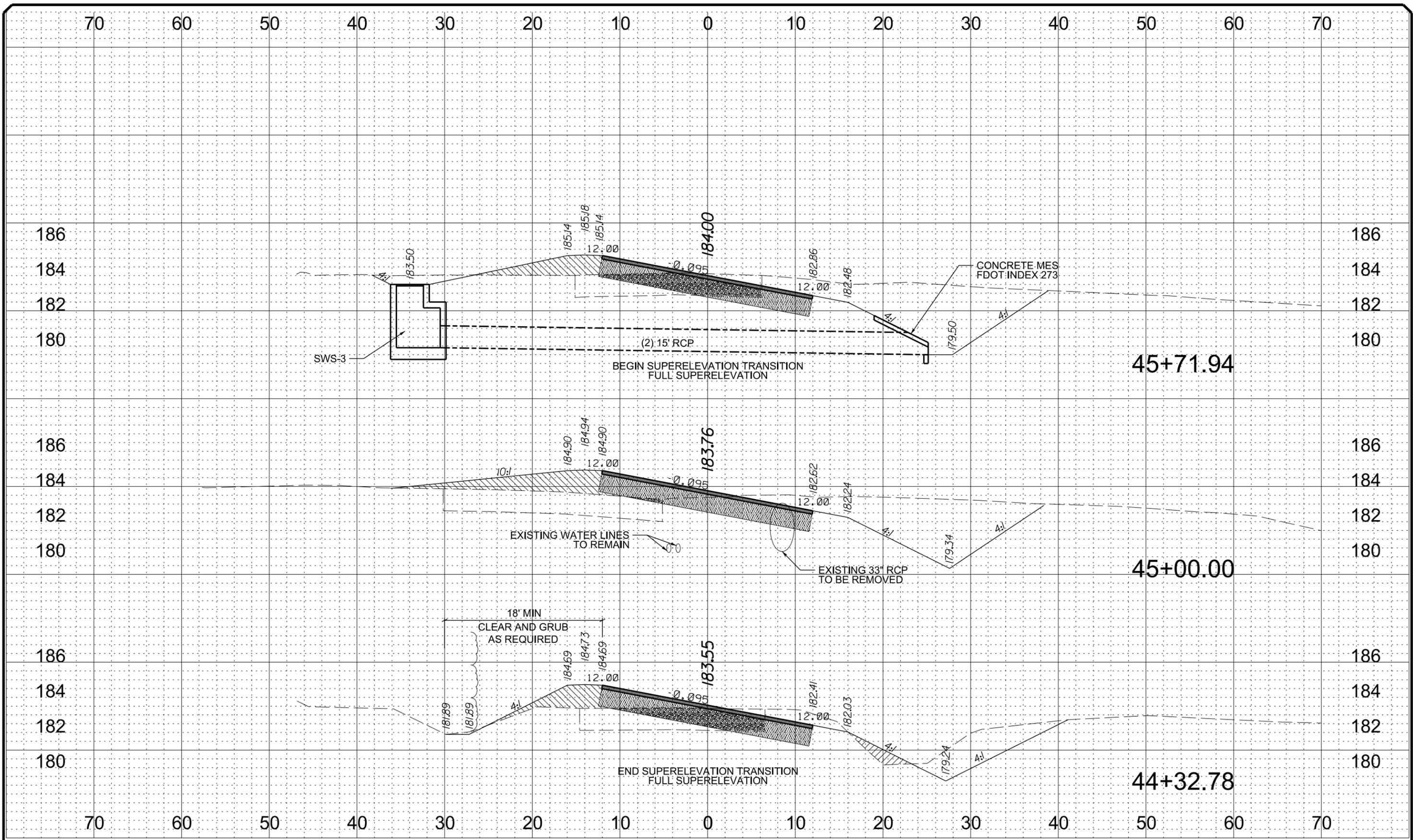


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CROSS SECTIONS	SHEET: XSC6



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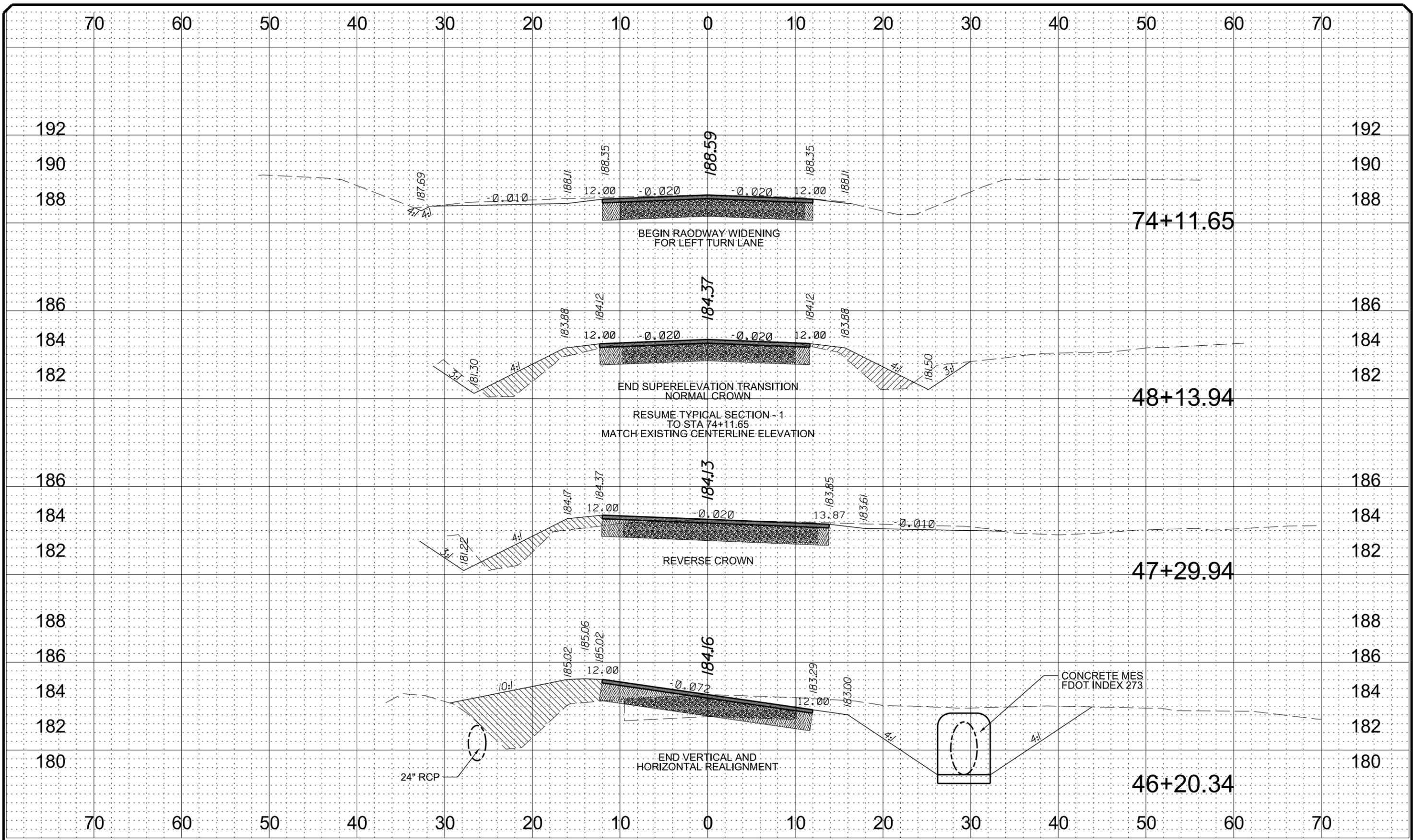

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CROSS SECTIONS

CES PROJECT NO.:
 2012-021
 SHEET:
 XSC7

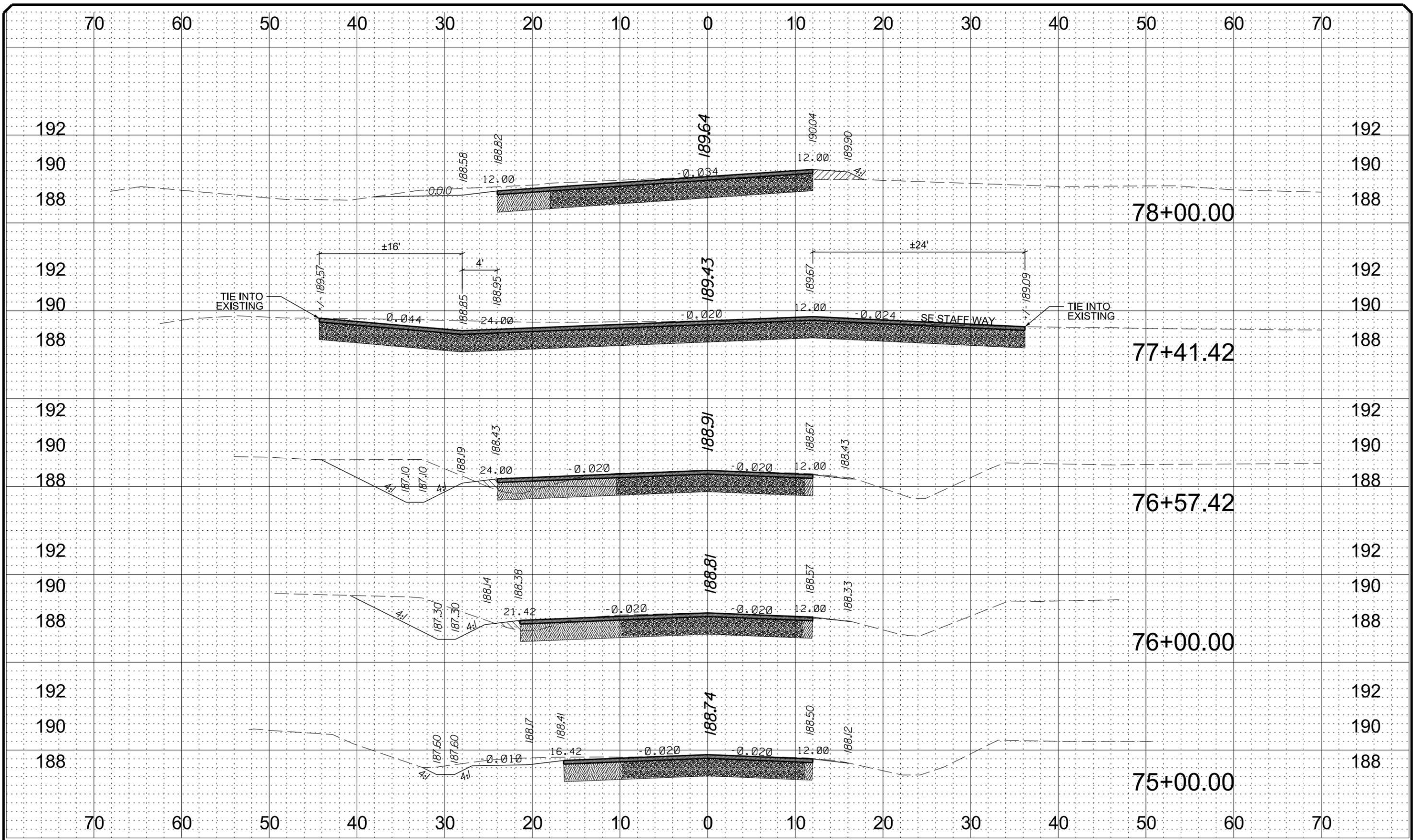


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CROSS SECTIONS	SHEET: XSC8



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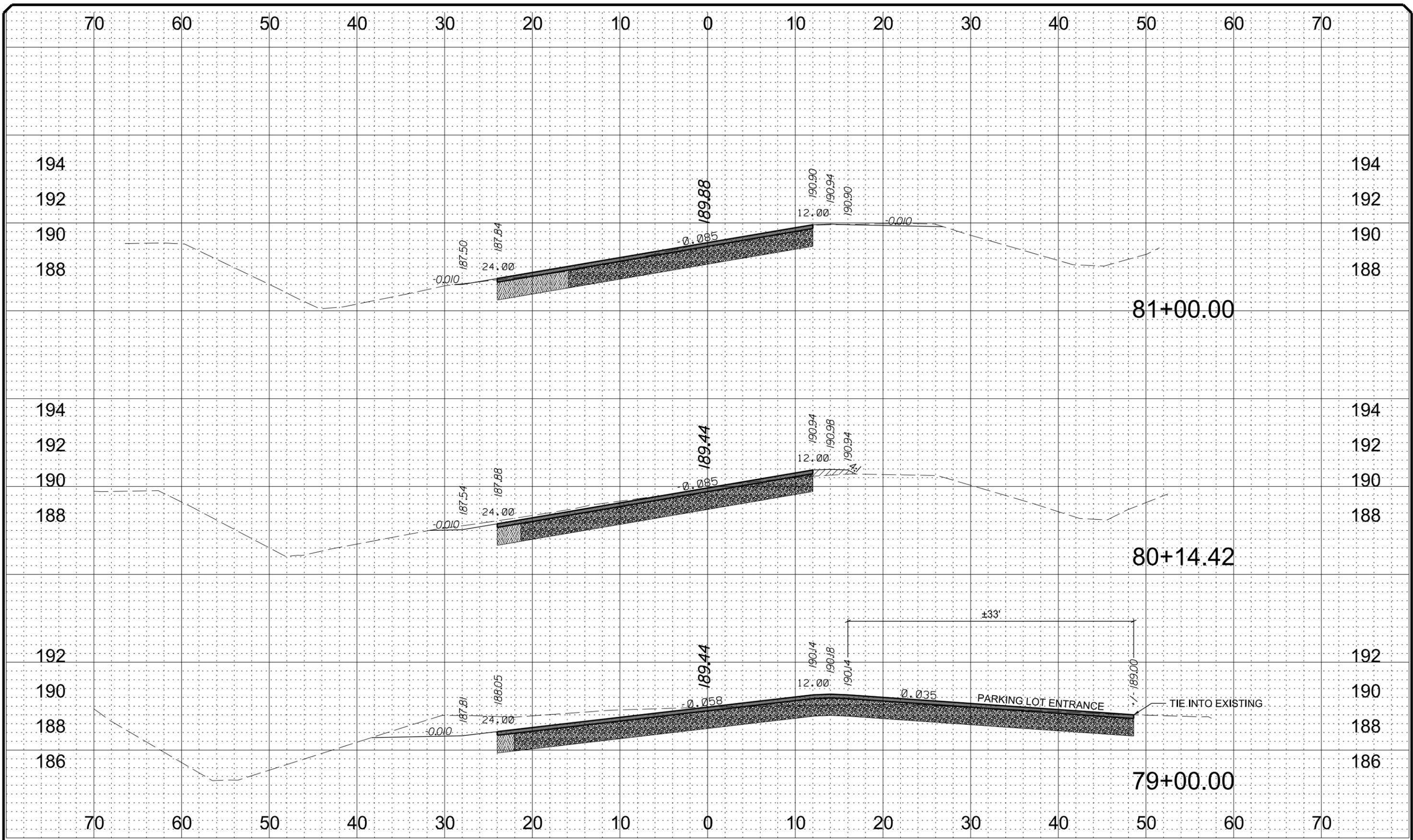
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CROSS SECTIONS

CES PROJECT NO.:
2012-021
 SHEET:
XSC9

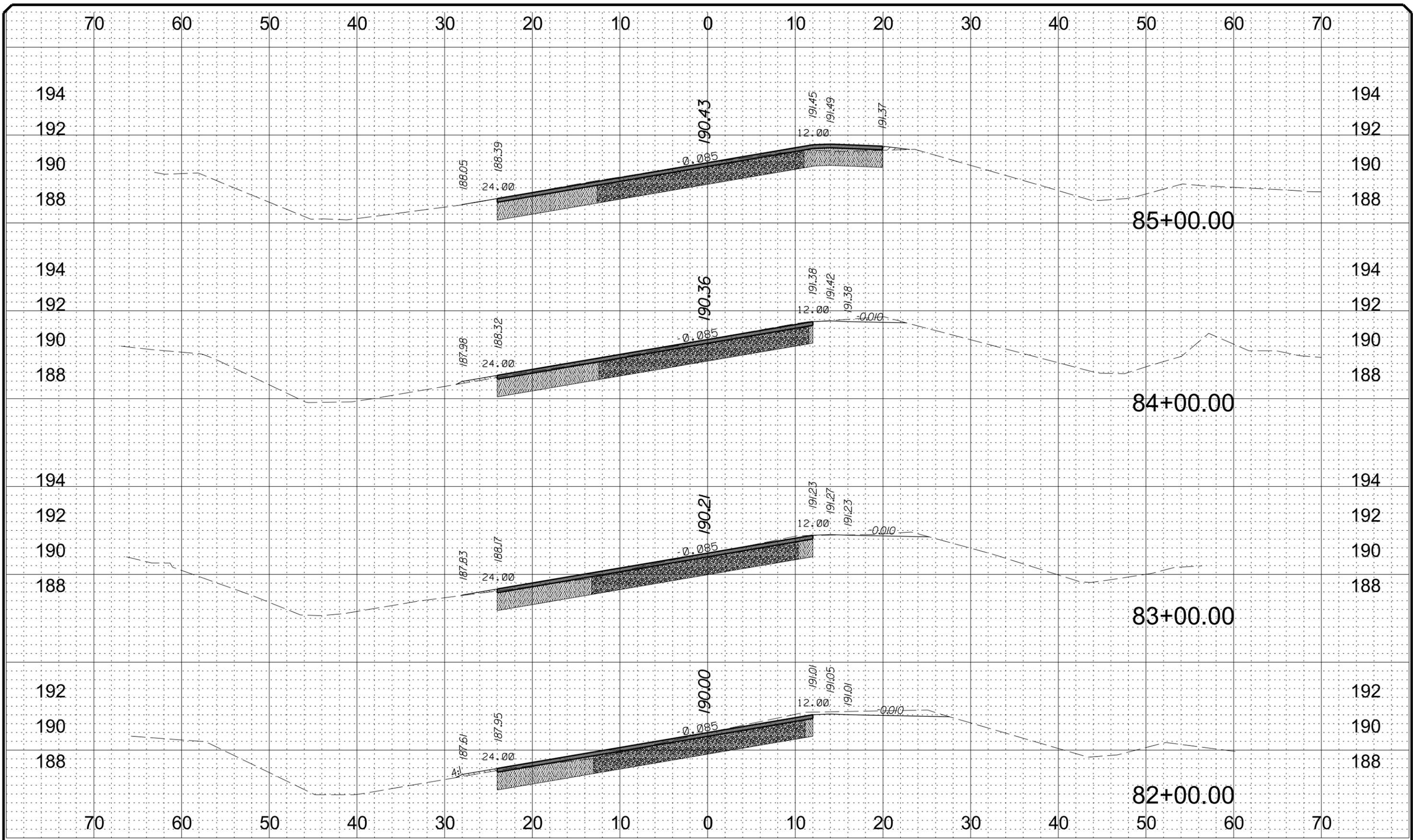


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	CROSS SECTIONS	SHEET: XSC10



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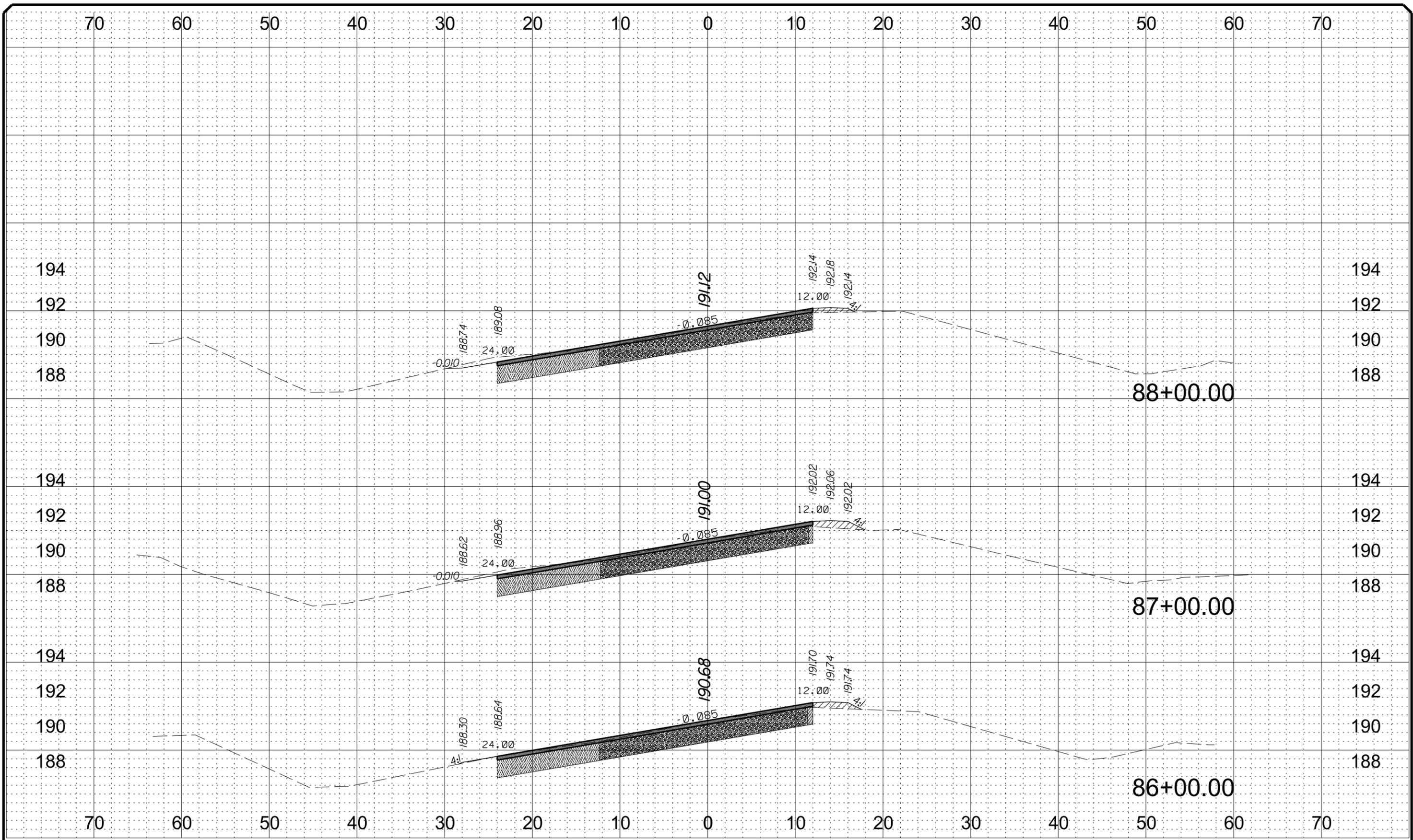
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CROSS SECTIONS

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2012-021
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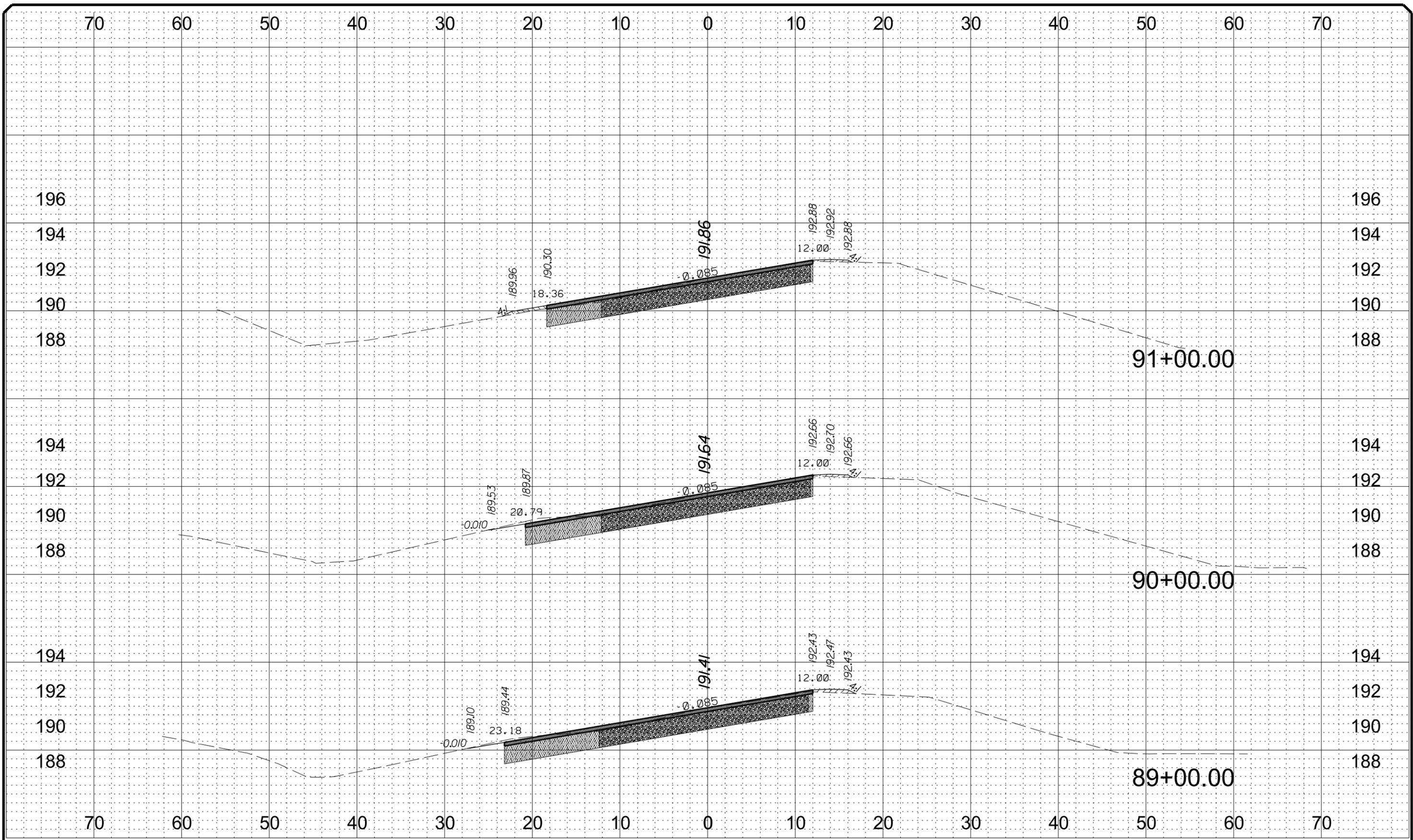
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CROSS SECTIONS

CES PROJECT NO.:
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SHEET:
XSC12

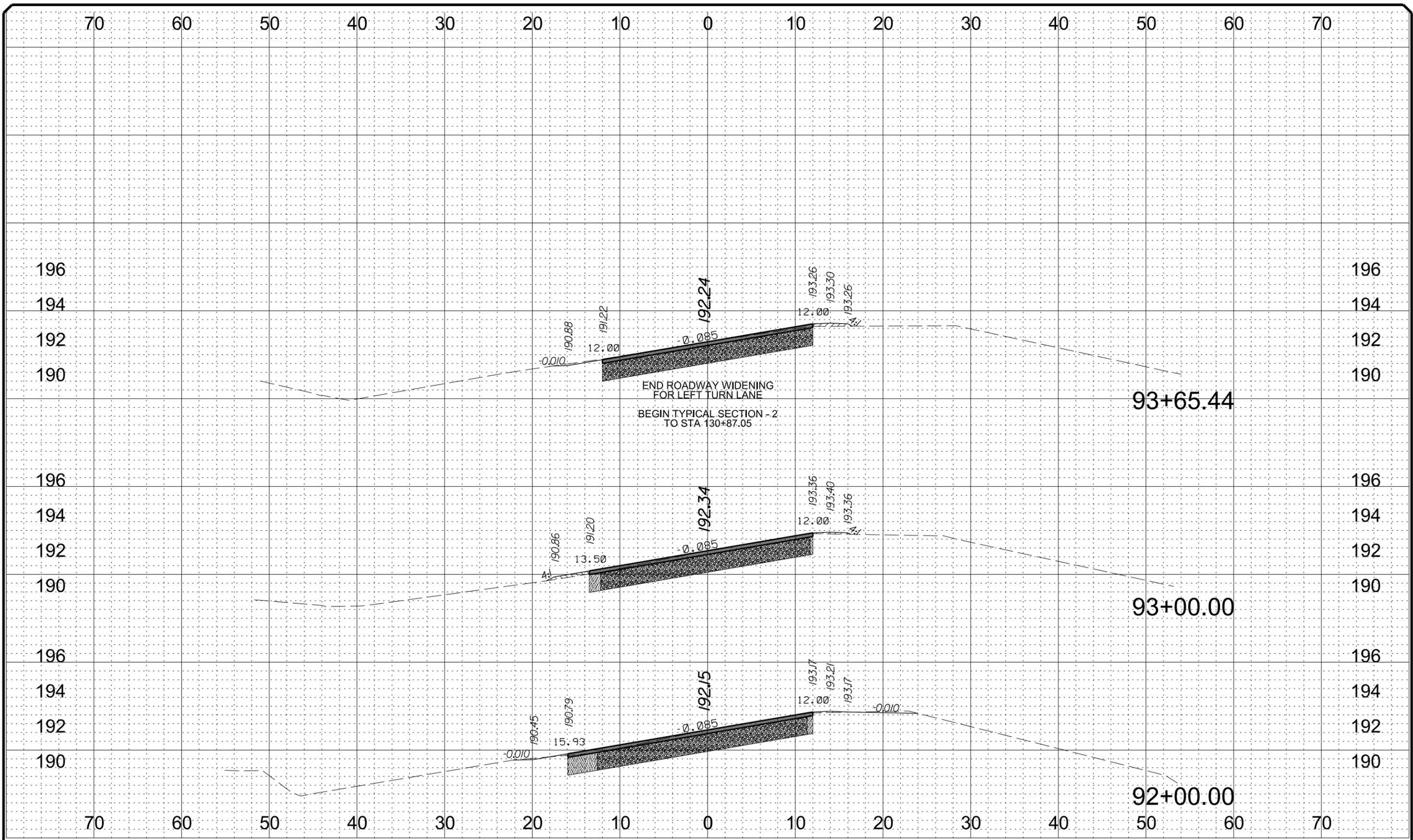


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CROSS SECTIONS	SHEET: XSC13



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