

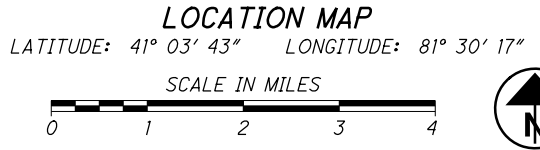
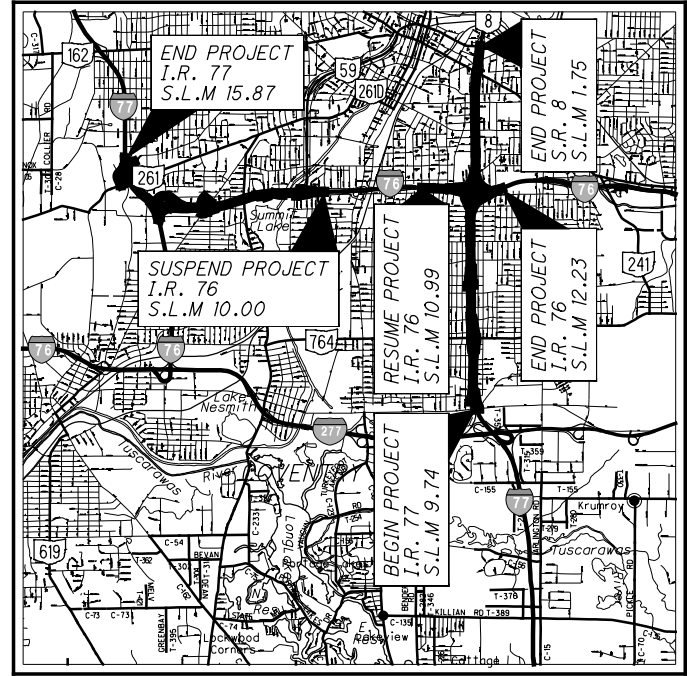
Released for Construction
 Thomas J Powell, PE
 06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION

SUM-76-8.24
SUM-77-9.74
SUM-8-0.00

CITY OF AKRON
SUMMIT COUNTY



PORTION TO BE IMPROVED	-----
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	=====
STATE ROUTES	=====
COUNTY & TOWNSHIP ROADS	=====
OTHER ROADS	-----

DESIGN DESIGNATION
 SEE BU-19

NHS PROJECT ----- YES

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATE	SHEET NUMBER
INSIDE SHOULDER WIDTH	3-30-20 5-21-20	11 - 25 (PLAN SHEETS ONLY)

INDEX OF SHEETS:

TITLE	1
TYPICAL SECTIONS	2 - 8
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MEDIAN BARRIER DETAILS	83

FOR MOT, SEE BU-3A & BU-3B
 FOR STRUCTURES WORK, SEE BU-16
 FOR SCHEMATIC PLAN & SURVEY CONTROL, SEE BU-19
 FOR REMOVALS, SEE BU-24
 FOR LIGHTING & ITS PLANS, SEE BU-35
 FOR TRAFFIC CONTROL, SEE BU-38

PROJECT DESCRIPTION

PAVEMENT REPLACEMENT OVER SUM - I.R. 76 FROM S.L.M. 8.24 TO 10.00, SUM - 77 FROM S.L.M. 9.74 TO 11.54, AND SUM - 8 FROM S.L.M. 0.00 TO 1.75. COVERS THE "SOUTH LEG" AND "WEST LEG", INCLUDES REHABILITATION OF SEVERAL STRUCTURES IN THE CITY OF AKRON, SUMMIT COUNTY, OHIO.

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

UNDERGROUND UTILITIES
 Contact Two Working Days Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
 (Non-members must be called directly)

PLAN PREPARED BY:

ENGINEERS SEAL:

SIGNED: *James F. Mitchell*
 DATE: 6/25/2021

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/17/20	BP-5.1	1/18/19	RM-4.5	7/21/17	800-2019 10/16/20	
BP-3.2	1/18/19	BP-9.1	1/18/19	RM-4.6	7/19/13	832 10/19/18	
CB-3.1	1/15/16	MGS-1.1	1/19/18	HW-2.2	7/20/18		
CB-3.2	1/15/16	MGS-2.1	1/19/18				
CB-3.4	1/15/16	MGS-3.1	1/19/18				
		MGS-3.2	1/18/13				
DM-1.1	7/17/20	MGS-4.2	7/19/13				
DM-1.2	1/18/13	MGS-5.2	7/15/16				
DM-4.1	7/17/20	MGS-5.3	7/15/16				
		MGS-6.1	1/19/18				
I-1.2	1/15/16						
I-2.1	1/15/16	RM-1.1	1/15/21				
I-2.2	7/19/19	RM-3.1	7/20/18				
		RM-4.3	7/18/14				
MH-1.2	1/15/16	RM-4.4	7/19/19				

BU-31
ROADWAY
 I-77 at V Odom Blvd to I-76/77 at East Ave
RELEASED FOR CONSTRUCTION
 June 25, 2021

FEDERAL PROJECT NO. **E180(428)**
 PID NO. **102329**
 CONSTRUCTION PROJECT NO. **21-3000**
 RAILROAD INVOLVEMENT **NONE**
 SUM-76/77/8-8.24/9.74/0.00
 1/83

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ISSUE RECORD:		
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LEGEND PROPOSED ITEMS

- 1 ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN
- 2 ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN
- 3 ITEM 407 - NON-TRACKING TACK COAT
- 4 ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN
- 5 ITEM 302 - 8" ASPHALT CONCRETE BASE, PG64-22 (2-4" LIFTS)
- 6 ITEM 304 - 6" AGGREGATE BASE, AS PER PLAN
- 7 ITEM 204 - PROOF ROLLING
- 8 ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP (MINIMUM)
- 9 ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")
- 10 ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (UNDER GUARDRAIL) (T=3")
- 11 ITEM 605 - 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC
- 12 ITEM 606 - GUARDRAIL, TYPE MGS
- 13 ITEM 618 - RUMBLE STRIPS, SHOULDER, (ASPHALT CONCRETE)
- 14 ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
- 15 ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1
- 16 ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN
- 17 ITEM 659 - SEEDING AND MULCHING
- 18 ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15")
- 19 ITEM 670 - SLOPE EROSION PROTECTION MAT, TYPE E

Station	*Y* Dimension per SCD I-2.2 (in feet)	Notes
191+83.50	0.34	Begin BU-31, in Full Bifurcation (se = 4.7%)
228+50.17	0.34	Begin C1 Transition to Type B1
232+56.61	0.00	End Type C1 Median Barrier, Begin Type B1
244+54.39	0.00	End BU-31, Begin BU-32

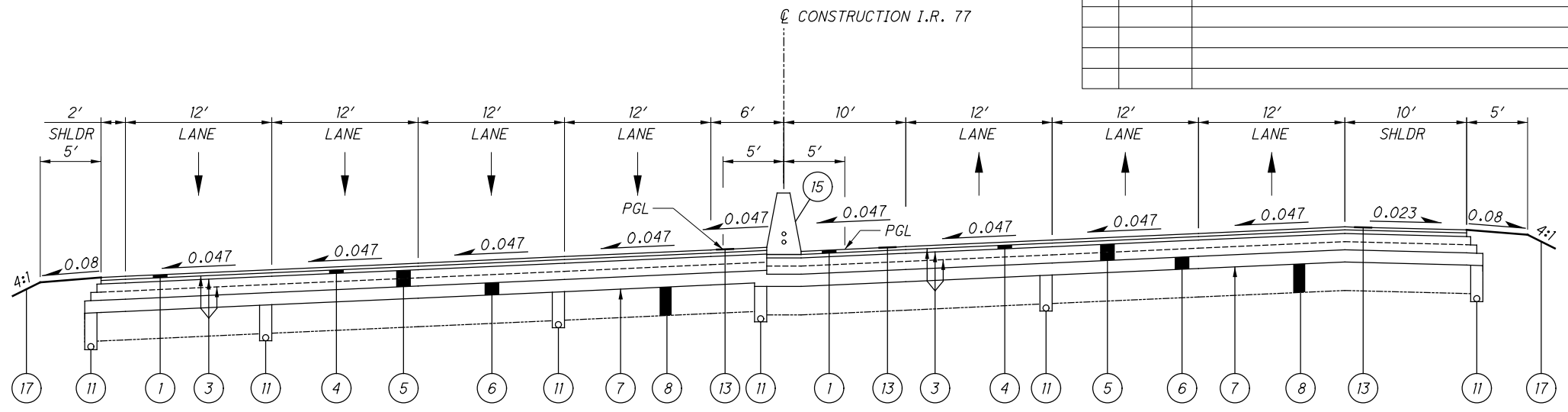
TYPICAL SECTIONS - LEGEND

SUM-76 / 77 / 8-
 8.24 / 9.74 / 0.00

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06/29/2021

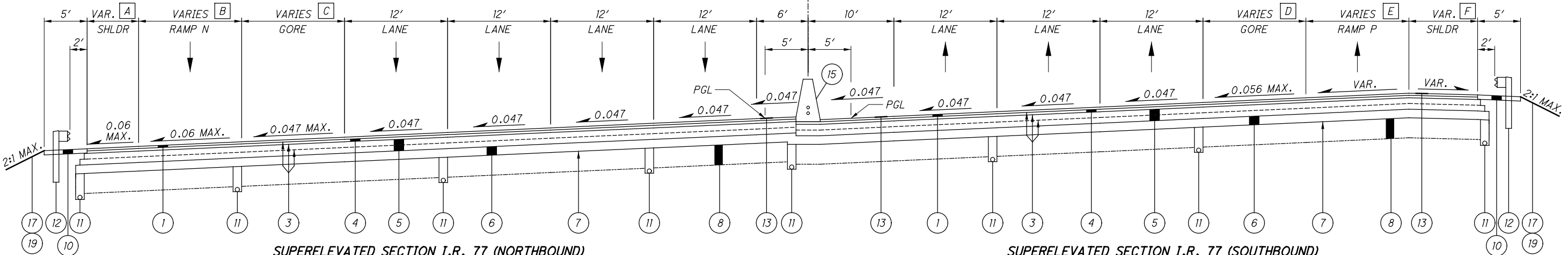
ISSUE RECORD:		
NO.	DATE	DESCRIPTION

- A VARIES FROM 6.0' AT STA. 193+73.20 TO 2.0' AT STA. 197+24.59
2.0' FROM STA. 197+24.59 TO STA. 220+77.03
- B 16.0' FROM STA. 193+68.81 TO STA. 195+59.30
VARIES FROM 16.0' AT STA. 195+59.30 TO 10.0' AT STA. 197+24.59
10.0' FROM STA. 197+24.59 TO STA. 201+39.91
VARIES FROM 10.0' AT STA. 201+39.91 TO 0.0' AT STA. 202+39.88
0.0' FROM STA. 202+39.88 TO STA. 220+77.03
- C VARIES FROM 23.0' AT STA. 193+68.81 TO 0.0' AT STA. 195+59.30
0.0' FROM STA. 195+59.30 TO STA. 220+77.03
- D VARIES FROM 23.0' AT STA. 194+59.03 TO 0.0' AT STA. 199+37.36
0.0' FROM STA. 199+37.36 TO STA. 209+48.08
- E 16.0' FROM STA. 194+59.03 TO STA. 199+37.36
VARIES FROM 16.0' AT STA. 199+37.36 TO 0.0' AT STA. 206+01.59
0.0' FROM STA. 206+01.59 TO STA. 209+48.08
- F VARIES FROM 9.3' AT STA. 194+59.03 TO 8.0' AT STA. 196+01.59
8.0' FROM STA. 196+01.59 TO STA. 209+48.08
- G VARIES FROM 0.0' AT STA. 220+77.03 TO 23.0' AT STA. 223+93.93
- H VARIES FROM 6.0' AT STA. 220+77.03 (AT -0.047) TO
10.0' AT STA. 223+93.93 (AT +0.023)
- I 0.0' FROM STA. 209+48.08 TO STA. 212+10.27
VARIES FROM 0.0' AT STA. 212+10.27 TO 23.0' AT STA. 213+81.11
- J VARIES FROM 0.0' AT STA. 209+48.08 TO 12.0' AT STA. 212+10.27
12.0' FROM STA. 212+10.27 TO STA. 213+81.11



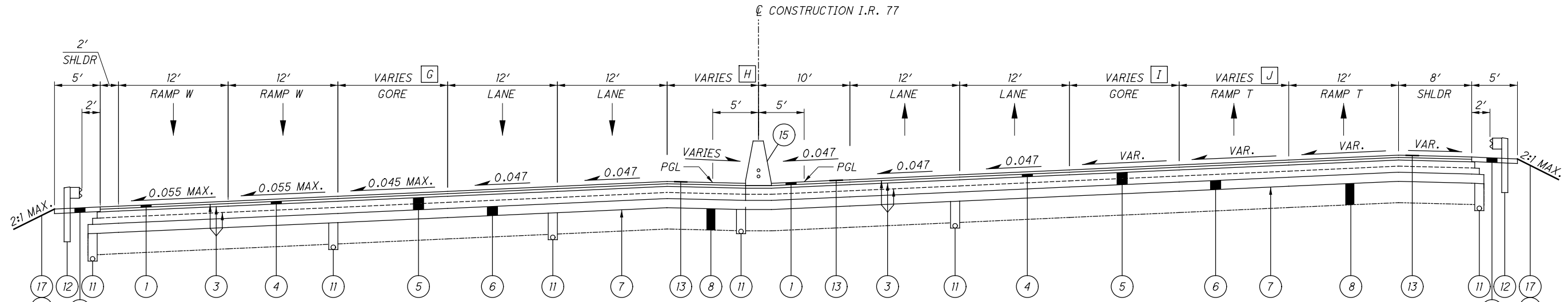
SUPERELEVATED SECTION I.R. 77 (NORTHBOUND)
STA. 191+83.50 TO STA. 193+68.81

SUPERELEVATED SECTION I.R. 77 (SOUTHBOUND)
STA. 191+83.50 TO STA. 194+59.03



SUPERELEVATED SECTION I.R. 77 (NORTHBOUND)
STA. 193+68.81 TO STA. 198+45.23 (SEE APPROACH SLAB TYPICAL SECTION ON SHEET 5)
STA. 200+43.81 TO STA. 211+36.07 (SEE APPROACH SLAB TYPICAL SECTION ON SHEET 5)
STA. 213+50.75 TO STA. 220+77.03

SUPERELEVATED SECTION I.R. 77 (SOUTHBOUND)
STA. 194+59.03 TO STA. 198+45.23 (SEE APPROACH SLAB TYPICAL SECTION ON SHEET 5)
STA. 200+43.81 TO STA. 209+48.08

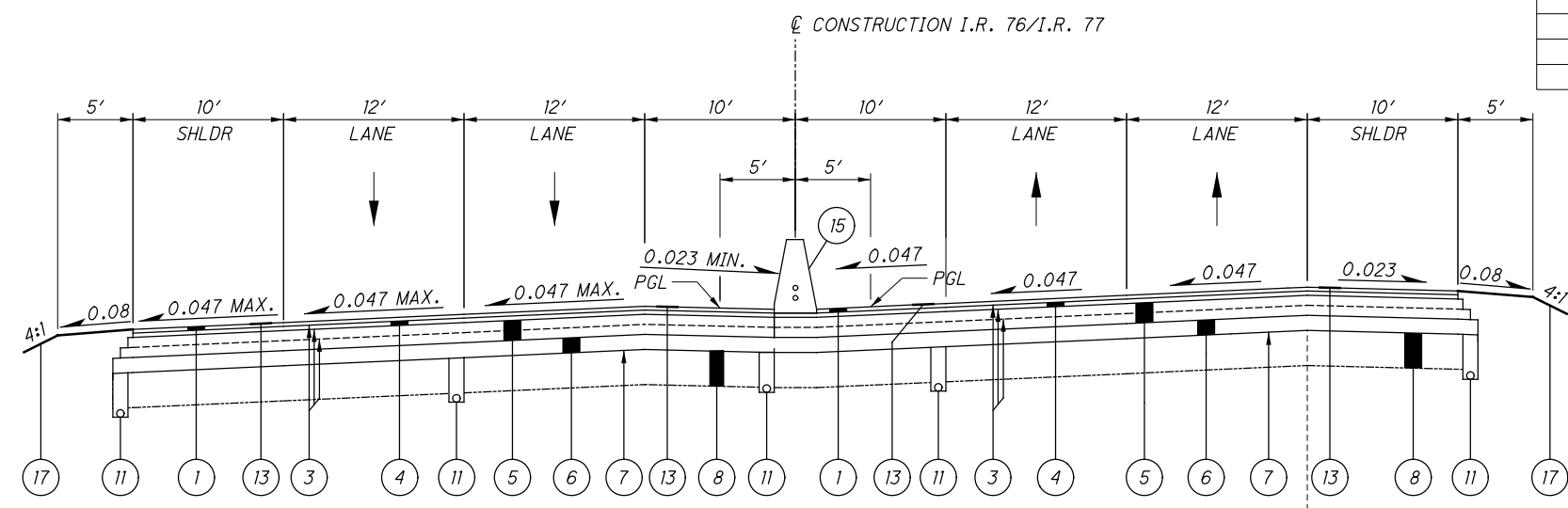


SUPERELEVATED SECTION I.R. 77 (NORTHBOUND)
STA. 220+77.03 TO STA. 223+93.93

SUPERELEVATED SECTION I.R. 77 (SOUTHBOUND)
STA. 209+48.08 TO STA. 211+36.07 (SEE APPROACH SLAB TYPICAL SECTION ON SHEET 5)
STA. 213+50.75 TO STA. 213+81.11

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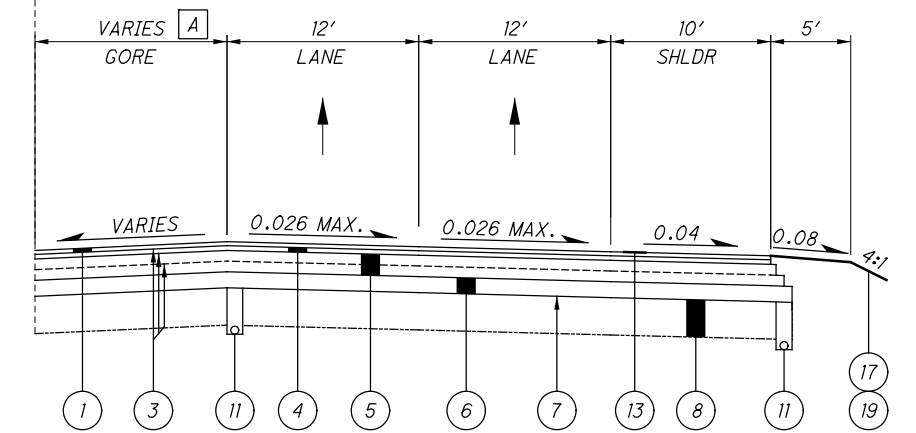
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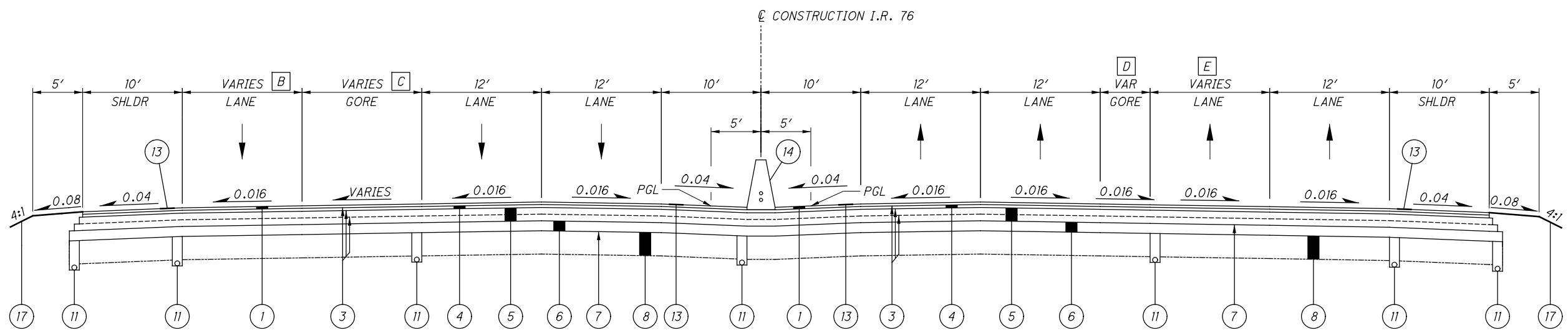
SUPERELEVATED SECTION I.R. 76 (WESTBOUND)/I.R. 77 (NORTHBOUND)
STA. 223+93.93 TO STA. 232+19.86

SUPERELEVATED SECTION I.R. 77 (SOUTHBOUND)
STA. 213+81.11 TO STA. 226+25.60

- A** VARIES FROM 23.0' AT STA. 226+25.60 TO 6.30' AT STA. 232+09.50
- B** 0.0' FROM STA. 232+19.86 TO STA. 234+78.88
16.0' FROM STA. 234+78.88 TO STA. 236+64.56
VARIES FROM 16.0' AT STA. 236+64.56 TO 12.0' AT STA. 238+74.80
12.0' FROM STA. 238+74.80 TO STA. 243+55.38
- C** 0.0' FROM STA. 232+19.86 TO STA. 234+78.88
VARIES FROM 23.0' AT STA. 234+78.88 TO 0.0' AT STA. 236+64.56
0.0' FROM STA. 236+64.56 TO STA. 243+55.38
- D** VARIES FROM 6.30' AT STA. 232+09.50 TO 0.0' AT STA. 235+50.36
0.0' FROM STA. 235+50.36 TO STA. 242+70.14
- E** 12.0' FROM STA. 232+09.50 TO STA. 235+50.36
VARIES FROM 12.0' AT STA. 235+50.36 TO 0.0' AT STA. 242+00.00
0.0' FROM STA. 242+00.00 TO STA. 242+70.14



SUPERELEVATED SECTION I.R. 76 (EASTBOUND)/I.R. 77 (SOUTHBOUND)
STA. 226+25.60 TO STA. 232+09.50



NORMAL SECTION I.R. 76 (WESTBOUND)
STA. 232+19.86 TO STA. 243+55.38

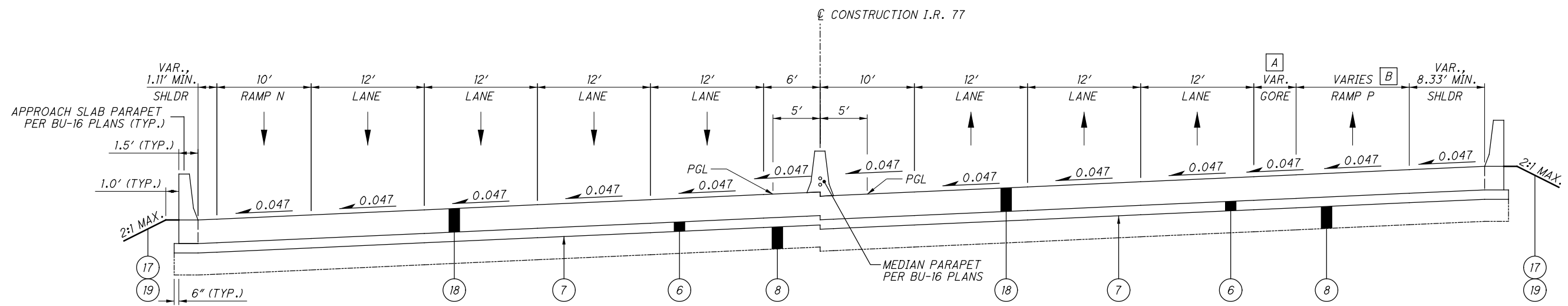
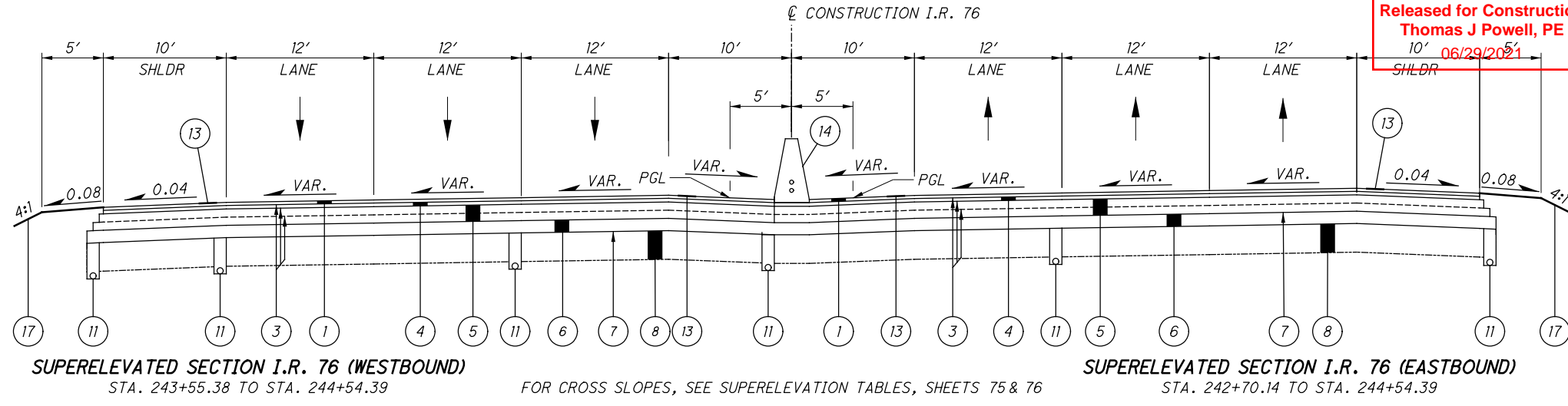
NORMAL SECTION I.R. 76 (EASTBOUND)
STA. 232+09.50 TO STA. 242+70.14

TYPICAL SECTIONS - I.R. 76 / I.R. 77

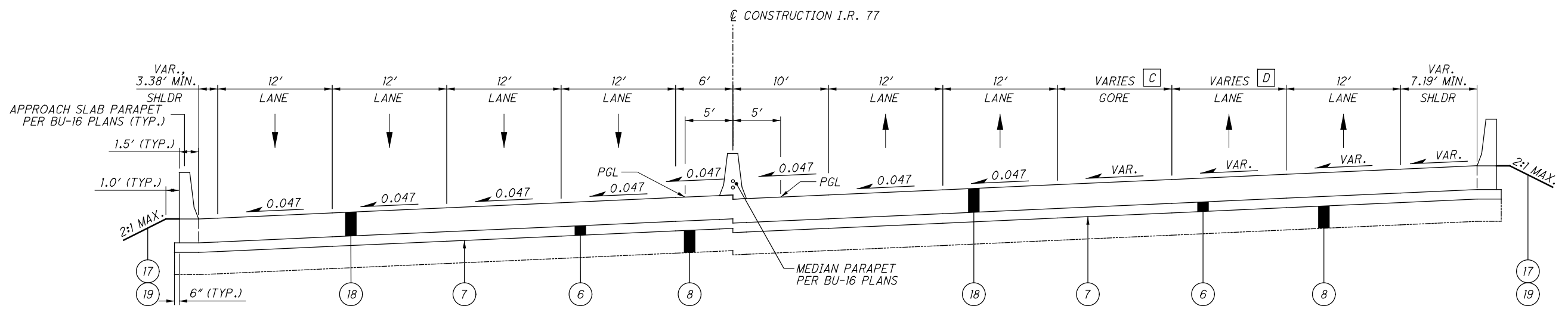
SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

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10' 06/29/2021

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SECTION APPLIES:
 AH STA. 200+18.81 TO STA. 200+43.81
 STRUCTURE SUM-77-1570
 BK STA. 198+45.23 TO STA. 198+70.23



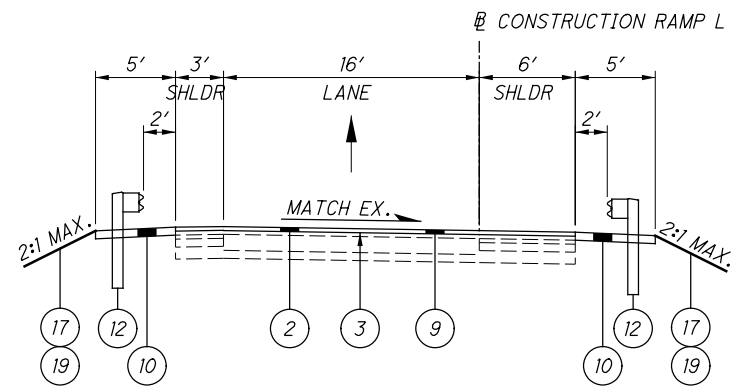
SECTION APPLIES:
 AH STA. 213+24.54 TO STA. 213+50.75
 STRUCTURE SUM-77-1543
 BK STA. 211+36.07 TO STA. 211+61.91

- A** VARIES FROM 2.35' AT STA. 198+45.23 TO 1.77' AT STA. 198+70.23
0.0' FROM STA. 200+18.81 TO STA. 200+43.81
- B** 16.0' FROM STA. 198+45.23 TO STA. 198+70.23
VARIES FROM 14.22' AT STA. 200+18.81 TO 13.70' AT STA. 200+43.81
- C** 0.0' FROM STA. 211+36.07 TO STA. 211+61.91
VARIES FROM 18.58' AT STA. 213+24.54 TO 20.55' AT STA. 213+50.75

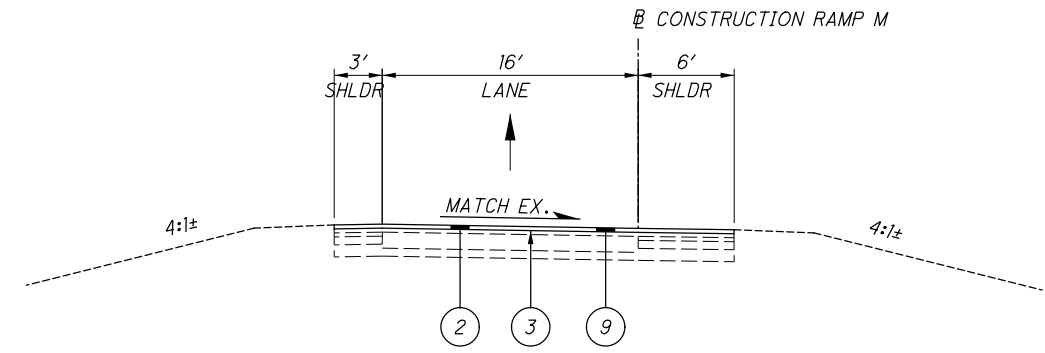
- D** VARIES FROM 8.45' AT STA. 211+36.07 TO 9.91' AT STA. 212+61.91
12.0' FROM STA. 213+24.54 TO STA. 213+50.75

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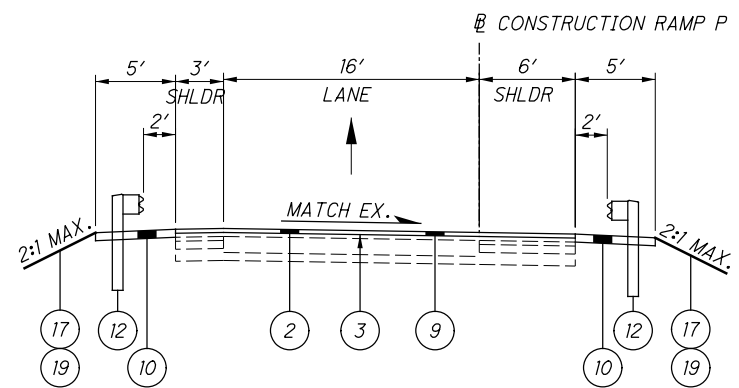
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NO.	DATE	DESCRIPTION



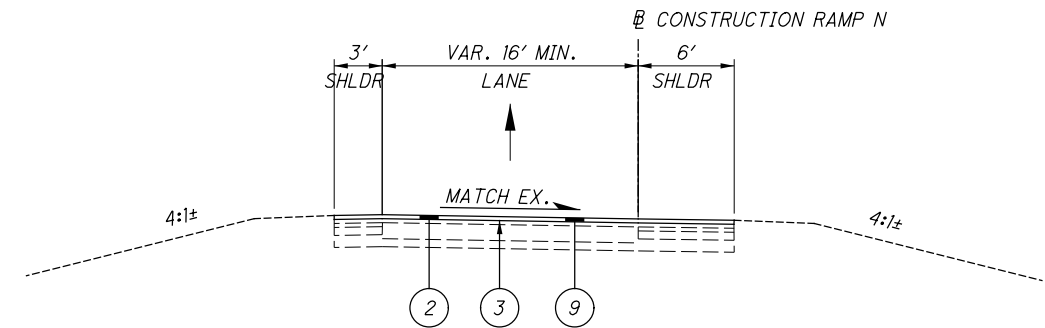
PROPOSED RAMP L RESURFACING SECTION



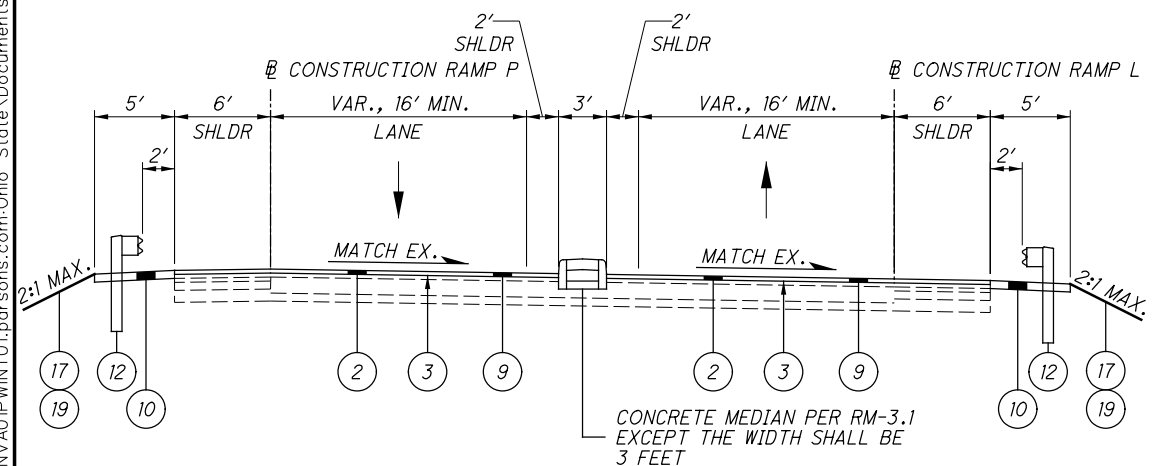
PROPOSED RAMP M RESURFACING SECTION



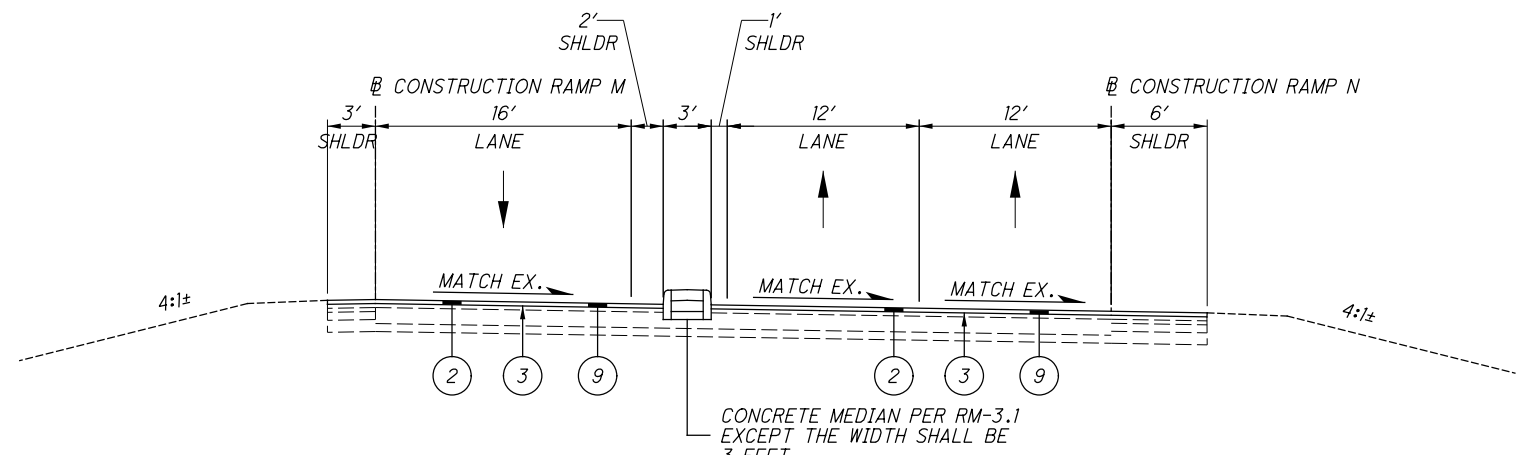
PROPOSED RAMP P RESURFACING SECTION



PROPOSED RAMP N RESURFACING SECTION



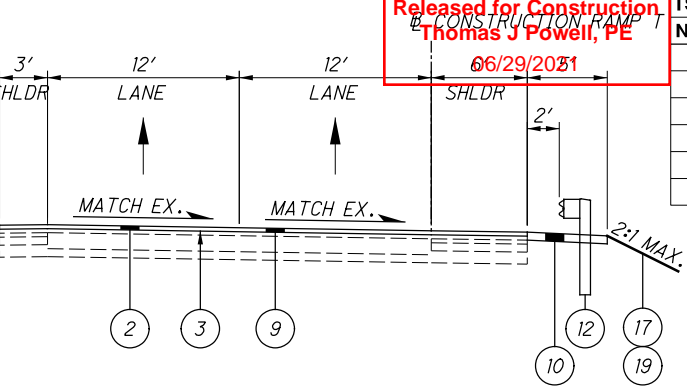
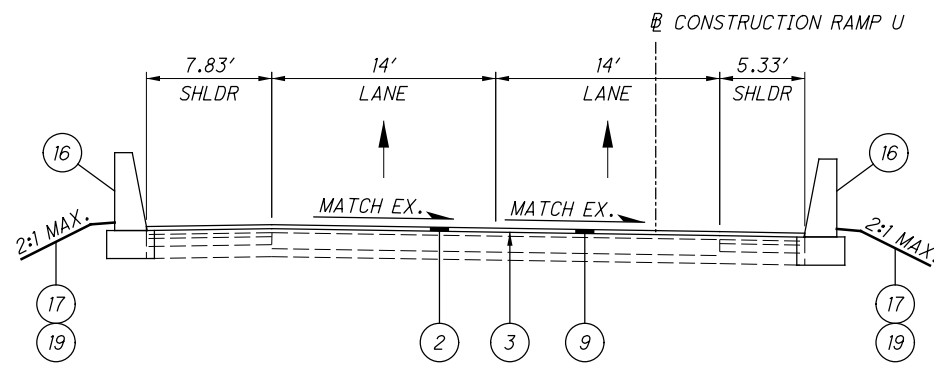
PROPOSED RAMPS L & P RESURFACING SECTION



PROPOSED RAMP N & M RESURFACING SECTION

CONCRETE MEDIAN PER RM-3.1 EXCEPT THE WIDTH SHALL BE 3 FEET

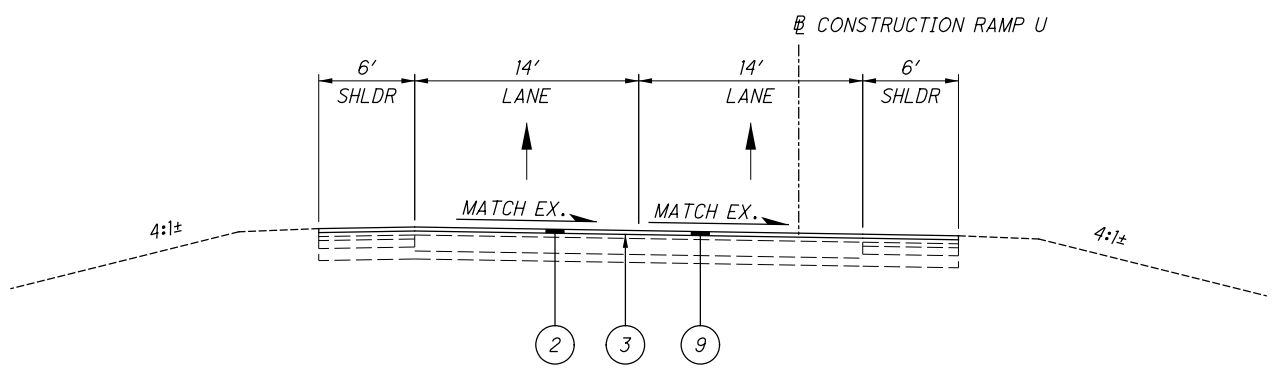
CONCRETE MEDIAN PER RM-3.1 EXCEPT THE WIDTH SHALL BE 3 FEET



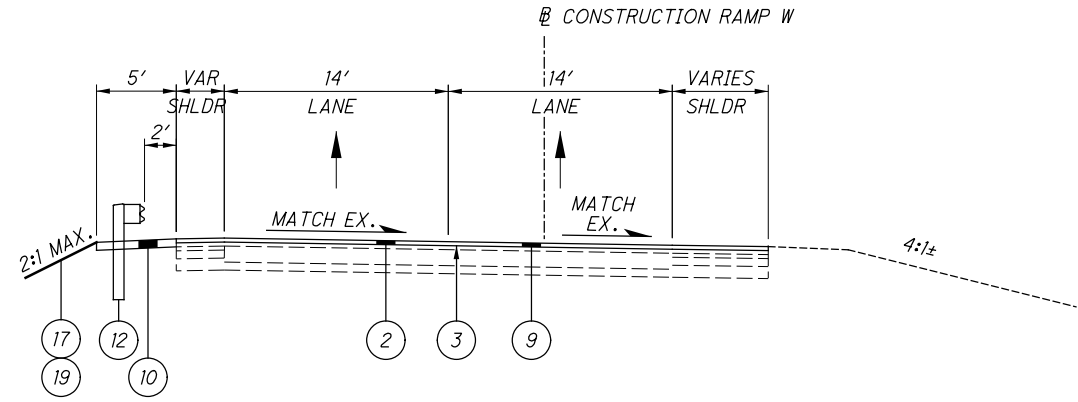
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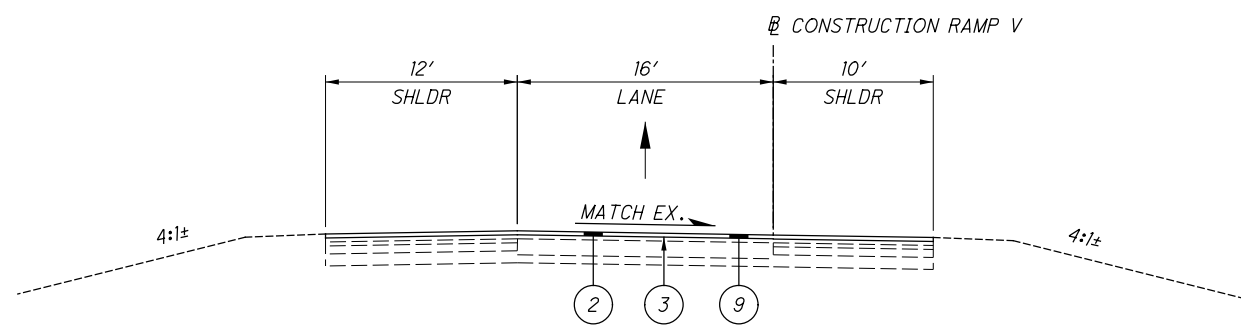
PROPOSED RAMP T RESURFACING SECTION



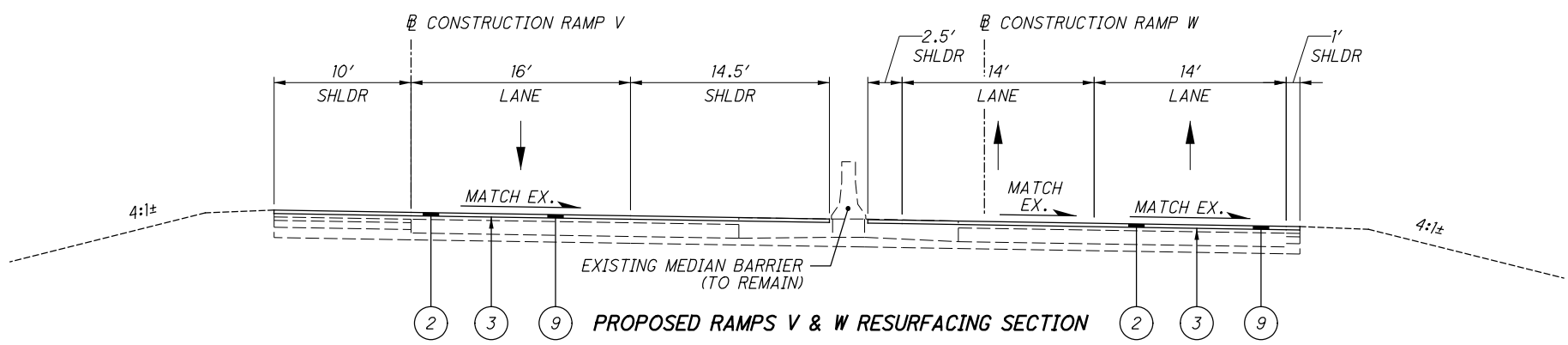
PROPOSED RAMP U RESURFACING SECTION



PROPOSED RAMP W RESURFACING SECTION



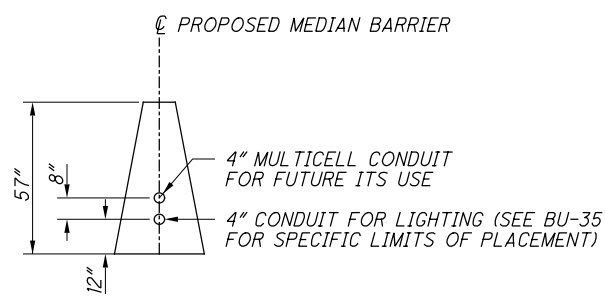
PROPOSED RAMP V RESURFACING SECTION



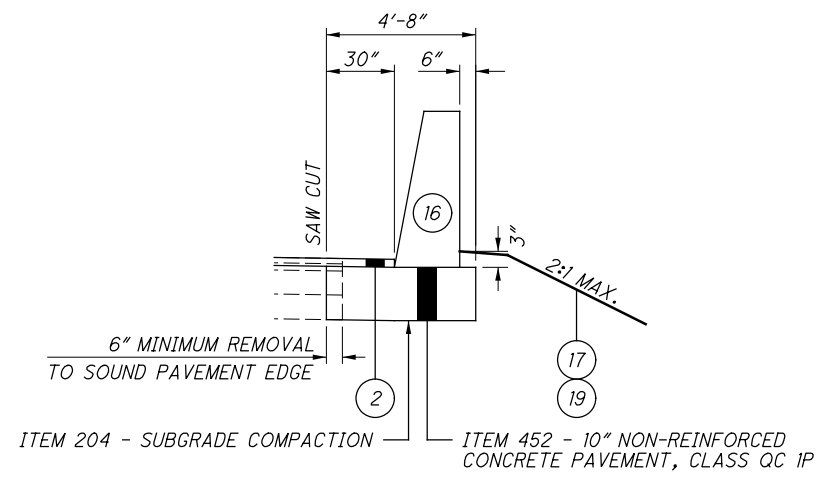
PROPOSED RAMPS V & W RESURFACING SECTION

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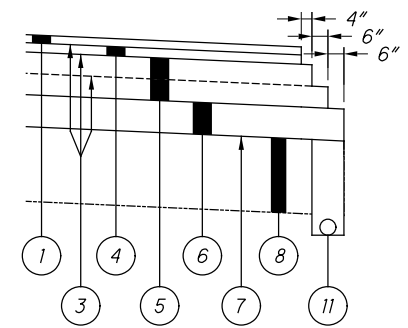
ISSUE RECORD:		
NO.	DATE	DESCRIPTION



MEDIAN RACEWAY PLACEMENT



ITEM 622 - CONCRETE BARRIER,
 SINGLE SLOPE, TYPE D, AS PER PLAN



PAVEMENT STEP DETAIL
 SURFACE COURSE SHALL BE PLACED AFTER ALL PHASES REQUIRING TRAFFIC SHIFTS ARE COMPLETE AND TRAFFIC HAS RETURNED TO NORMAL LANES.

TYPICAL SECTIONS - DETAILS

SUM-76 / 77 / 8-
 8.24 / 9.74 / 0.00

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06/29/2021

ISSUE RECORD:		
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CALCULATED	SRB	CHECKED	JFM
GENERAL NOTES			
<p>SUM - 76 / 77 / 8 - 8.24 / 9.74 / 0.00</p>			
<p>9 83</p>			

UTILITIES

THE UNDERGROUND UTILITIES ON THIS PLAN HAVE BEEN LOCATED BY USING A SUBSURFACE UTILITY ENGINEERING COMPANY [SUE]. IF THERE ARE ANY DISCREPANCIES BETWEEN FIELD MARKINGS AND WHAT THE PLAN INDICATES, PLEASE CONTACT MATTHEW STEELE (PHONE: 330-786-4832), DISTRICT UTILITY COORDINATOR, PRIOR TO ANY SUBSURFACE WORK BEING INITIATED. THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

LISTED BELOW ARE THE UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS

- CARGILL SALT
ATTN: KERRY MORGAN
CELL (330) 780-6610
2065 MANCHESTER RD.
AKRON, OH 43082
- GAS
DOMINION ENERGY
ATTN: KEVIN BIRT
OFFICE (330) 664-2409
EMAIL:
relocation@dominionenergy.com
320 SPRINGSDALE DR., SUITE
230
AKRON, OH 44333
- CITY OF AKRON BUREAU OF WATER RECLAMATION
ATTN: BRIAN GRESSER
OFFICE (330) 375-2963x7130
2460 AKRON-PENINSULA RD.
AKRON, OH 44313
- ELECTRIC
FIRST ENERGY
ATTN: MICHAEL JANSON
OFFICE (330) 830-7092
EMAIL:
jansonm@firstenergycorp.com
1910 WEST MARKET ST.,
BUILDING #1
AKRON, OH 44313
- CITY OF AKRON - AKRON SEWER
ATTN: SCOTT DAVENPORT
OFFICE (330) 375-2769
EMAIL:
sdavenport@akronohio.gov
2460 AKRON PENINSULA RD.
AKRON, OH 44313
- AT&T OHIO
ATTN: LUCIE HINSHAW
OFFICE (330) 384-3048
50 W. BOWERY STREET, 6TH FLOOR
AKRON, OH 44308
- CROWN CASTLE
ATTN: ED DALY
OFFICE (585) 397-5988
EMAIL:
ed.daly@crowncastly.com
15565 NEO PARKWAY
GARFIELD HEIGHTS, OH 44128
- G&O RESOURCES, LTD
OFFICE (330) 253-2525
96 EAST CROSIER ST.
AKRON, OH 44311
- EVERFLOW EASTERN PARTNERS
OFFICE (330) 537-3863
585 W MAIN ST.
CANFIELD, OH 44406
- CITY OF AKRON BUREAU OF WATER SUPPLY (INSPECTION)
ATTN: TONY PUGLIA
OFFICE (330) 375-2649
1460 TRIPLETT BLVD.
AKRON, OH 44306
- CITY OF AKRON
UTILITY COORDINATOR
ATTN: JOSEPH KUNZLER
OFFICE (330)-375-2217
CELL (330)-690-0133
166 S. HIGH ST. AKRON, OH
44308
- CITY OF AKRON COMMUNICATIONS
ATTN: MALCOLM VALENTINE
OFFICE (330) 375-2670
FAX (330) 375-2996
JOHN HEFFERNAN
OFFICE (330) 375-2685
- CITY OF AKRON - TRAFFIC ENGINEERING
OFFICE (330) 375-2851
EMAIL:
traffic@akronohio.gov
1420 TRIPLETT BLVD., BLDG #2
AKRON, OH 44306
- SUMMIT COUNTY ENGINEER'S OFFICE
ATTN: STEVE BURGESS
OFFICE (330) 808-5575
538 E. SOUTH ST.
AKRON, OH 44311
- CITY OF AKRON - AKRON WATER
ATTN: JOE OKOLISH
OFFICE (330) 375-2690
EMAIL:
jokolish@akronohio.gov
146 SOUTH HIGH STREET,
ROOM 211
AKRON, OH 44308
- CHARTER COMMUNICATIONS
ATTN: JIM LONG
OFFICE (330) 622-4106
EMAIL:
james.long@charter.com
1200 BROWNSTONE AVE.
AKRON, OH 44310
- VERIZON
ATTN: AL GUEST
OFFICE (330) 253-8267
EMAIL:
allan.guest@verizon.com
120 RAVINE ST.
AKRON, OH 44303
- STRAWN OILFIELD SERVICE
ATTN: GEORGE STRAWN
CELL (330) 727-1614
29093 STATE ROUTE 62
SALEM, OH 44460

UTILITIES (CONT'D)

OHIO DEPARTMENT OF TRANSPORTATION
ITS OFFICE
EMAIL:
CEN.ITS.Lab@dot.ohio.gov
1606 WEST BROAD ST.
COLUMBUS, OH 43223
Note: Not a Member of OUPS

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 4
ATTN: MICHELLE CHANEY, PE
EMAIL:
Michelle.Chaney@dot.ohio.gov
2088 SOUTH ARLINGTON ST.
AKRON, OH 44306
OUPS

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF TECHNICAL SERVICES
TRAFFIC MONITORING SECTION
ATTN: SANDRA MAPEL
OFFICE (614) 644-0291
1980 WEST BROAD ST.
COLUMBUS, OH 43223
Note: Not a Member of OUPS

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ROADWAY NOTES

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSSECTIONS, EVEN THOUGH OTHERWISE SHOWN.

EXISTING UTILITIES AND SUBGRADE TREATMENT

THE CONTRACTOR SHALL VERIFY THE DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AND SEWERS WITHIN THE PROPOSED PAVEMENT LIMITS TO ENSURE NO UTILITIES OR SEWERS ARE IMPACTED OR DAMAGED DURING CEMENT STABILIZATION AND/OR UNDERCUT ACTIVITIES. THE CONTRACTOR SHALL LOCATE AND TAKE CARE TO FLAG ALL EXISTING UTILITIES WITHIN THE PROPOSED PAVEMENT LIMITS PRIOR TO PERFORMING CEMENT STABILIZATION OR UNDERCUT, AS DESIGNATED IN THE PLANS. SHOULD THE CONTRACTOR ENCOUNTER A POTENTIAL UTILITY CONFLICT, THE CONTRACTOR SHALL NOTIFY PROJECT ENGINEER AND STOP CEMENT STABILIZATION/UNDERCUT ACTIVITIES AT THE CONFLICT LOCATION IMMEDIATELY.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE B

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE B (CONT'D)

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

THE FACE OF THE TYPE B IMPACT HEAD SHALL BE COVERED WITH TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE B, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING REFLECTIVE SHEETING AND ALL RELATED HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE J, ASTM D4956 TYPE XI REFLECTIVE SHEETING, PER CMS 730.193.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 606 - IMPACT ATTENUATOR, TYPE 1 (UNDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY ONE OF THE TYPE 1 IMPACT ATTENUATORS AS LISTED ON THE OFFICE OF ROADWAY ENGINEERING'S WEB PAGE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, IMPACT ATTENUATOR, TYPE 1 (UNDIRECTIONAL OR BIDIRECTIONAL), EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED TRANSITIONS, HARDWARE, REFLECTIVE SHEETING AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

PAVING UNDER GUARDRAIL

THIS OPERATION SHALL INCLUDE PREPARATION OF THE GRADED SHOULDER USING ITEM 209, LINEAR GRADING, AS PER PLAN AND PAVING UNDER THE GUARDRAIL USING 411 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), UNDER GUARDRAIL, AS PER PLAN.

ITEM 209, LINEAR GRADING, AS PER PLAN SHALL CONSIST OF EXCAVATING TOPSOIL, AND PLACING GRANULAR MATERIAL.

PAVING UNDER GUARDRAIL (CONT'D)

ALL COLLECTED DEBRIS AND TOPSOIL, INCLUDING RHIZOMES, ROOTS AND OTHER VEGETATIVE PLANT MATERIAL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN 105.17.

THE REMOVED MATERIAL SHALL BE REPLACED WITH COMPACTABLE GRANULAR MATERIAL CONFORMING TO 703.16 PLACED TO GRADE AS DETAILED ON THE TYPICAL SECTION OR AS APPROVED BY THE ENGINEER.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 209, LINEAR GRADING, AS PER PLAN. PAVING UNDER GUARDRAIL SHALL CONSIST OF PLACING ITEM 441 TO THE DEPTH SPECIFIED USING ONE OF THE FOLLOWING METHODS:

- METHOD A:
1. SET GUARDRAIL POSTS
 2. PLACE ITEM 441

- METHOD B:
1. PLACE ITEM 441
 2. BORE ASPHALT AT POST LOCATIONS (MAY BE OMITTED IF STEEL POSTS ARE USED)
 3. SET GUARDRAIL POSTS
 4. PATCH AROUND POSTS. THE MATERIALS USED FOR PATCHING SHALL BE AN ASPHALT CONCRETE APPROVED BY THE ENGINEER. PATCHED AREAS SHALL BE COMPACTED USING EITHER HAND OR MECHANICAL METHODS. FINISHED SURFACES SHALL BE SMOOTH AND SLOPED TO DRAIN AWAY FROM THE POSTS.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE, WITH THE EXCEPTION OF SETTING GUARDRAIL POSTS, SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 441, ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 1(448), UNDER GUARDRAIL, AS PER PLAN.

ITEM SPECIAL - MISC.: VERTICAL CLEARANCE

BEFORE ANY CONSTRUCTION TAKES PLACE AND AFTER ALL CONSTRUCTION HAS BEEN COMPLETED, A REGISTERED SURVEYOR WILL TAKE VERTICAL CLEARANCE MEASUREMENTS AT LOCATIONS INDICATED ON THE APPROVED ODOT FORM (AVAILABLE IN THE DISTRICT 4 STRUCTURES AND PAVEMENT OFFICE). THE FINAL MEASUREMENTS SHALL BE RECORDED ON THE FORM AND SUBMITTED TO THE PROJECT ENGINEER AND THE DISTRICT 4 STRUCTURES AND PAVEMENT ENGINEER. THE RECORD SHALL BEAR THE SEAL OF THE LICENSED SURVEYOR WHO HAS TAKEN THE MEASUREMENTS. THE WORK SHALL BE PERFORMED AT ALL OF THE OVERHEAD STRUCTURES WITHIN THE PROJECT LIMITS.

EROSION CONTROL NOTES

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

PAVEMENT NOTES

ITEM 304 - AGGREGATE BASE, AS PER PLAN

GRANULATED SLAG (GS) SHALL NOT BE PERMITTED FOR THIS ITEM. ALL OTHER REQUIREMENTS OF SECTIONS 304 AND 703.17 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL STILL BE APPLICABLE.

Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
SRB
CHECKED
JFM

PAVEMENT NOTES (CONT'D)

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN

703.05 DO NOT USE COARSE AGGREGATE FROM A SOURCE DESIGNATED 'SR' OR 'SRH' ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN

703.05 DO NOT USE COARSE AGGREGATE FROM A SOURCE DESIGNATED 'SR' OR 'SRH' ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN

IN LOW SHOULDER AREAS EXCEEDING 1", AND ADJACENT TO THE SAFETY EDGE, RECYCLED ASPHALT PAVEMENT (RAP) SHALL BE USED IN AREAS ADJACENT TO THE PAVED BERM. THE RAP SHALL HAVE A MINIMUM PG CONTENT OF 4.5% AND MEET THE FOLLOWING GRADATION. ONCE THE STOCKPILE MEETS THE GRADATION, THE PG CONTENT OF THE RAP SHALL BE DETERMINED PER 441.03. THE RAP ANALYSIS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL 2 WEEKS PRIOR TO USE. PLACEMENT AND COMPACTION SHALL MEET THE REQUIREMENTS OF ITEM 617.

MODIFIED GRADATION SHALL APPLY:

SIEVE	TOTAL PERCENT PASSING
1-1/2"	100
3/4"	50-100
NO 4	35-70
NO 30	9-33
NO 200	0-13

ITEM 408 - PRIME COAT, AS PER PLAN

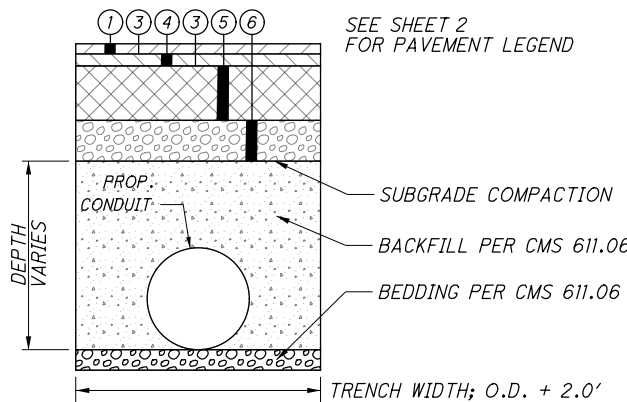
APPLY "MC-70" AT A RATE OF 0.4 GALLONS PER SQUARE YARD, OR AS DETERMINED BY THE ENGINEER, TO THE COMPLETED COMPACTED AGGREGATE SHOULDER.

ADVANCED NOTICE TO PAVE

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DISTRICT CONSTRUCTION ENGINEER A DETAILED SCHEDULE 15 DAYS PRIOR TO THE PLACEMENT OF THE OVERLAY COURSES, ON HOW THEY PROPOSE TO PROSECUTE THE PAVING OPERATIONS. THE DETAILS SHALL SHOW THE ORDER OF PERFORMANCE OF EACH STAGE (START TO FINISH) OF THE WORK INCLUDING THE MAINTENANCE OF TRAFFIC THAT WILL BE USED.

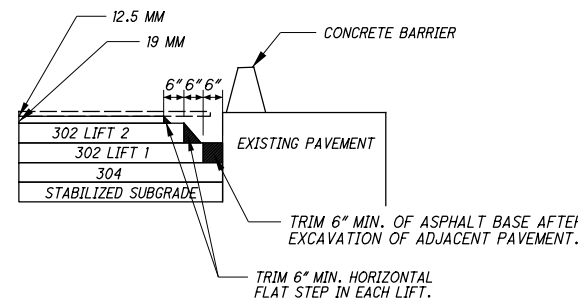
ITEM 252 - FULL-DEPTH PAVEMENT REMOVAL AND FLEXIBLE REPLACEMENT

IN ACCORDANCE ITEM 252 - FULL DEPTH RIGID PAVEMENT REMOVAL AND FLEXIBLE REPLACEMENT, THIS ITEM SHALL BE USED WHEN NEW STORM SEWER CONDUIT AND/OR NEW MEDIAN INLETS ARE TO BE PLACED IN RESURFACING AREAS. SEE DETAIL BELOW FOR PROPOSED PAVEMENT AND TRENCH DETAIL FOR CONDUIT INSTALLATION.



PHASE JOINT FOR ASPHALT PAVING

PER THE PHASING JOINT DETAIL, BEFORE PAVING AGAINST THE PHASE JOINT, THE CONTRACTOR SHALL MILL OUT THE UNCONSOLIDATED EDGE OF EACH PAVEMENT COURSE TO PROVIDE THE APPROPRIATE STEPS INT PAVEMENT JOINT, WHILE REMOVING THE UNCONSOLIDATED MATERIAL, PER THE DETAIL SHOWN UPON COMPLETION OF THE MILLING, THE VERTICAL FACES SHALL BE SEALED WITH SUPPLEMENTAL SPECIFICATION 875.02 HOT APPLIED ASPHALT JOINT ADHESIVE TO PROVIDE 100% COVERAGE OF THE JOINTS. THE COST FOR THE MILLING AND SEALING SHALL BE INCIDENTAL TO THE COST OF THE PAVEMENT ITEMS.



PHASING JOINT DETAIL

ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN

ON THIS PROJECT SUPPLY A 19MM INTERMEDIATE COURSE MEETING THE REQUIREMENTS OF 442 EXCEPT AS MODIFIED BELOW. MODIFY TABLE 442.02-2 AS FOLLOWS:

Sieve Size	9.5 mm mix	12.5 mm mix	19 mm mix
	Total Percent Passing		
1 1/2 inch (38 mm)	-	-	100
3/4 inch (19 mm)	-	100	95 to 100
1/2 inch (12.5 mm)	100	95 to 100	90 to 100
3/8 inch (9.5 mm)	90 to 100	96 max	96 max
No. 4 (4.75 mm)	70 max	52 to 65	60 max
No. 8 (2.36 mm)	34 to 52	34 to 45	34 to 45
No. 200 (75 µm)	2 to 8	2 to 8	2 to 8

MODIFY TABLE 442.02-3 AS FOLLOWS:
- APPLY 14.0 FOR A VMA (PERCENT MINIMUM) FOR A 19MM MIX.
- APPLY 5.3 PERCENT FOR THE MINIMUM TOTAL ASPHALT BINDER CONTENT FOR A 19MM MIX.

MODIFY THE 442 INTERMEDIATE COURSE REQUIREMENTS OF TABLES 401.04-1 AND 401.04-2 AS FOLLOWS:
- APPLY 3.5 PERCENT FOR THE TOTAL VIRGIN ASPHALT BINDER CONTENT, MINIMUM.
- USE A PG 64-22 IF USING 25 PERCENT OR LESS RAP. USE PG 64-28 IF USING GREATER THAN 25 PERCENT RAP.

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442)

THIS ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION AND PLACING ITEM 442 ASPHALT CONCRETE, TYPE A. THE ASPHALT SHALL BE COMPACTED WITH A TYPE I PNEUMATIC TIRE ROLLER AND A STEEL WHEEL ROLLER AS PER CMS 401.13. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE RESURFACING LIMITS OF THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER COMPLETION OF PAVEMENT PLANING. ALSO, THIS ITEM SHALL COMMENCE WITHIN SEVEN (7) DAYS OF THE COMPLETION OF SAID PLANING. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REPAIR.

DRAINAGE NOTES

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE. UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

ITEM SPECIAL - PIPE CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE. UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

ENVIRONMENTAL NOTES

COMMUNITY NOTIFICATION

THE CONTRACTOR WILL ADVISE THE ODOT PROJECT ENGINEER A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR MUST ALSO PROVIDE NOTIFICATION TO THE ODOT PROJECT ENGINEER A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO ANY LANE RESTRICTIONS. THE ODOT PROJECT ENGINEER WILL FORWARD THE INFORMATION TO THE ODOT, DISTRICT 4 OFFICE OF PUBLIC INFORMATION FOR USE TO NOTIFY EMERGENCY SERVICES AND THE COMMUNITY A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO THE START OF PROJECT CONSTRUCTION. INCLUDED IN THIS NOTIFICATION WILL BE THE PROPOSED LANE RESTRICTIONS.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

THE DBT SHALL SUBMIT TO THE ODOT PROJECT MANAGER THE TOTAL NUMBER OF ACRES OF EARTH DISTURBANCE ACTIVITIES FOR BOTH OFF PROJECT AND ON PROJECT WORK IN A TIMELY MANNER. THIS INFORMATION WILL BE USED TO DEVELOP THE NOI IF REQUIRED. THE NOI WILL BE SUBMITTED TO THE OEPA WITHIN 10 DAYS AFTER THIS INFORMATION IS RECEIVED FROM THE DBT. APPROVAL FROM THE OEPA TAKES 21 DAYS AND THE ODOT PROJECT MANAGER HAS 10 DAYS TO FILE THE NOI SO THESE 31 DAYS WILL BE COUNTED FOR IN THE PROJECT.

ALL TEMPORARY EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR EVEN IF A SWPPP IS NOT REQUIRED. EARTH DISTURBING ACTIVITY IS NOT PERMITTED PRIOR TO THE OEPA PERMIT APPROVAL. FOR PROJECTS THAT REQUIRE AN NOI, THE SWPPP MUST BE IN PLACE PRIOR TO THE INITIATION OF ANY EARTH DISTURBING ACTIVITY. ALL TEMPORARY EROSION CONTROL WORK AND THE SWPPP IF REQUIRED WILL BE PER SS832. FOR INFORMATION ABOUT OEPA'S NPDES PERMIT REQUIREMENTS SEE [HTTPS://WWW.EPA.OHIO.GOV/DSW/STORM/INDEX](https://www.epa.ohio.gov/dsw/storm/index)

ITEMS USED TO IMPLEMENT THE DBT'S EROSION CONTROL REQUIREMENTS ARE PAID FROM AN ENCUMBERED AMOUNT INCLUDED IN THE PROPOSAL AS A NON-BID REFERENCE NUMBER. THE PROPOSAL SPECIFIES THE UNIT PRICES FOR THE EROSION CONTROL ITEMS. PAYMENTS FOR EROSION CONTROL ITEMS THAT EXCEED THE ENCUMBERED AMOUNT WILL BE MADE BY AN EXTRA WORK CHANGE ORDER USING THE SPECIFIED UNIT PRICES. THE SPECIFIED UNIT PRICES ARE FIXED FOR THE CONTRACT AND MAY NOT BE NEGOTIATED OR ADJUSTED FOR INFLATION OR CLAIMED CHANGED CONDITION.

THE PREPARATION OF THE SWPPP, ALONG WITH ALL REQUIREMENTS OF SS832 FOR MAINTAINING, INSPECTING, MODIFYING AND UPDATING THE SWPPP ARE CONSIDERED INCIDENTAL TO THE PROJECT.

REMOVAL OF TEMPORARY EROSION CONTROL ITEMS

ALL TEMPORARY EROSION CONTROL ITEMS SHALL BE REMOVED BEFORE THE PROJECT IS ACCEPTED. REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH THE APPROPRIATE C&MS SPECIFICATIONS.

WATERWAY PERMITS

THE WATERWAY PERMITS WILL BE OBTAINED BY ODOT PRIOR TO CONSTRUCTION. THE PROJECT WILL BE COVERED UNDER ODOT REGIONAL GENERAL PERMIT - B.

FLOODPLAIN COORDINATION

FLOODPLAIN COORDINATION IS COMPLETE, AND NO FLOODPLAIN PERMIT IS NEEDED.

ENDANGERED SPECIES HABITAT

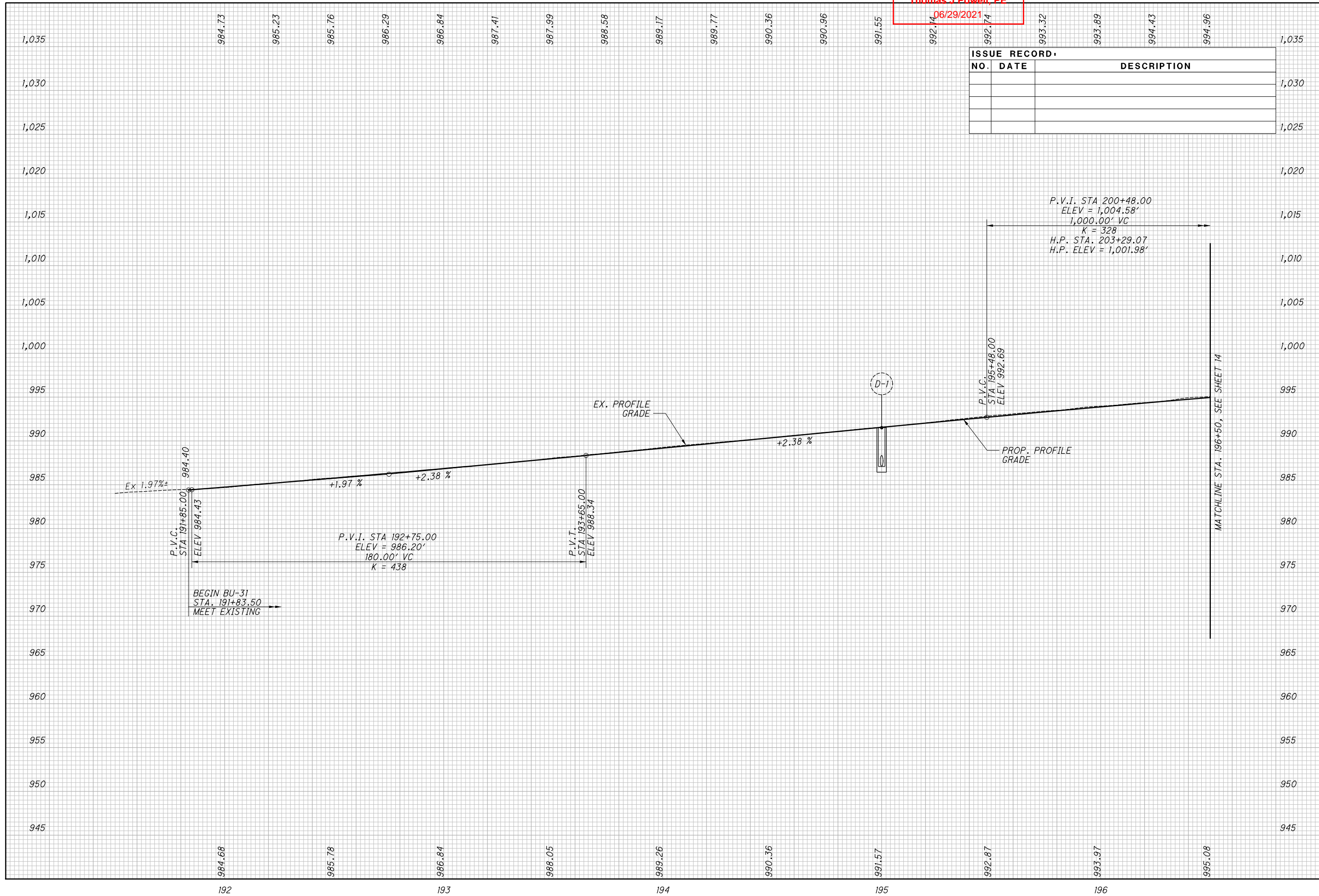
INDIANA BAT/NORTHERN LONG-EARED BAT: THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

GENERAL NOTES

SUM-76 / 77 / 8 -
8.24 / 9.74 / 0.00

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 Thomas J Powell, PE
 06/29/2021



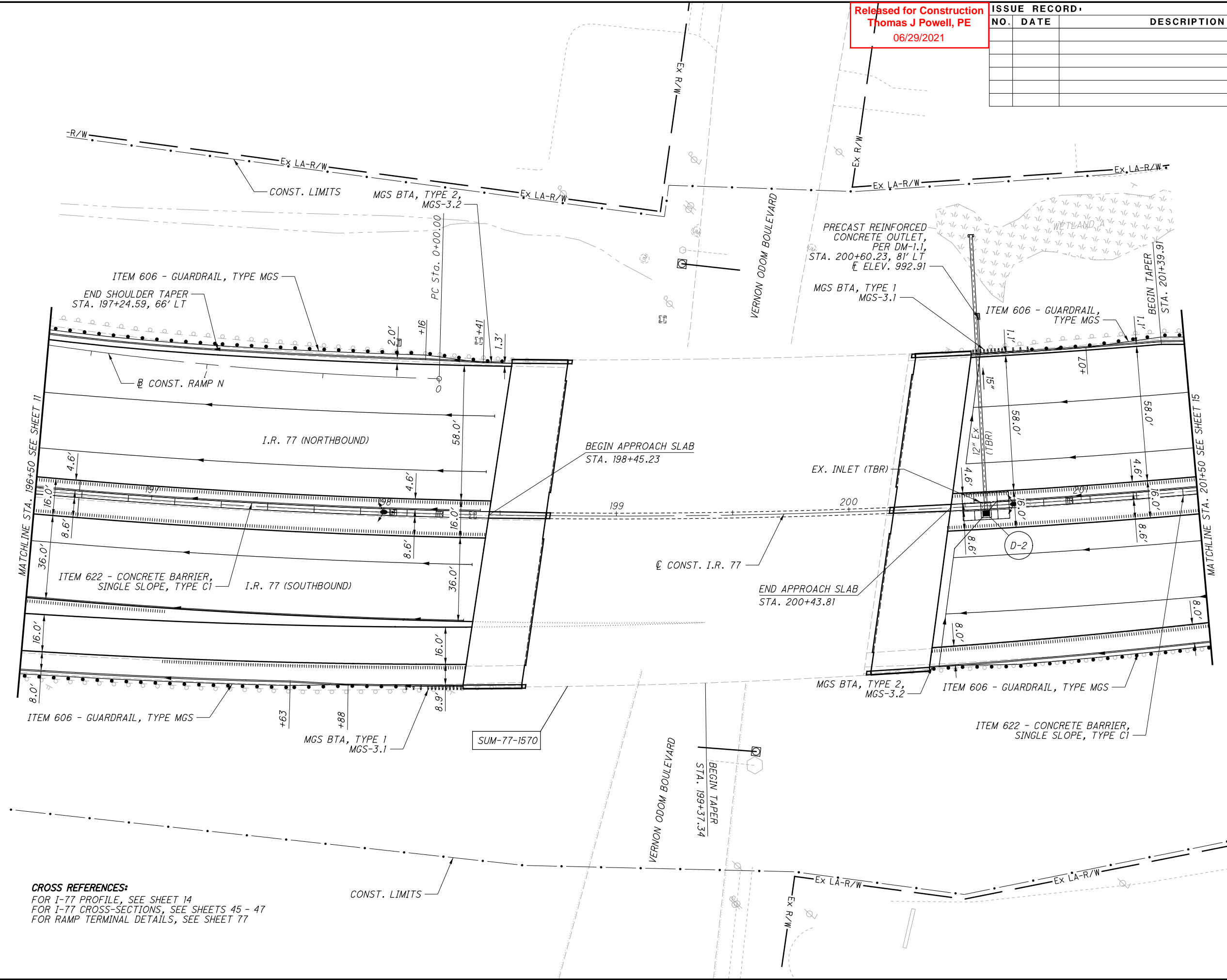
ISSUE RECORD		
NO.	DATE	DESCRIPTION

Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
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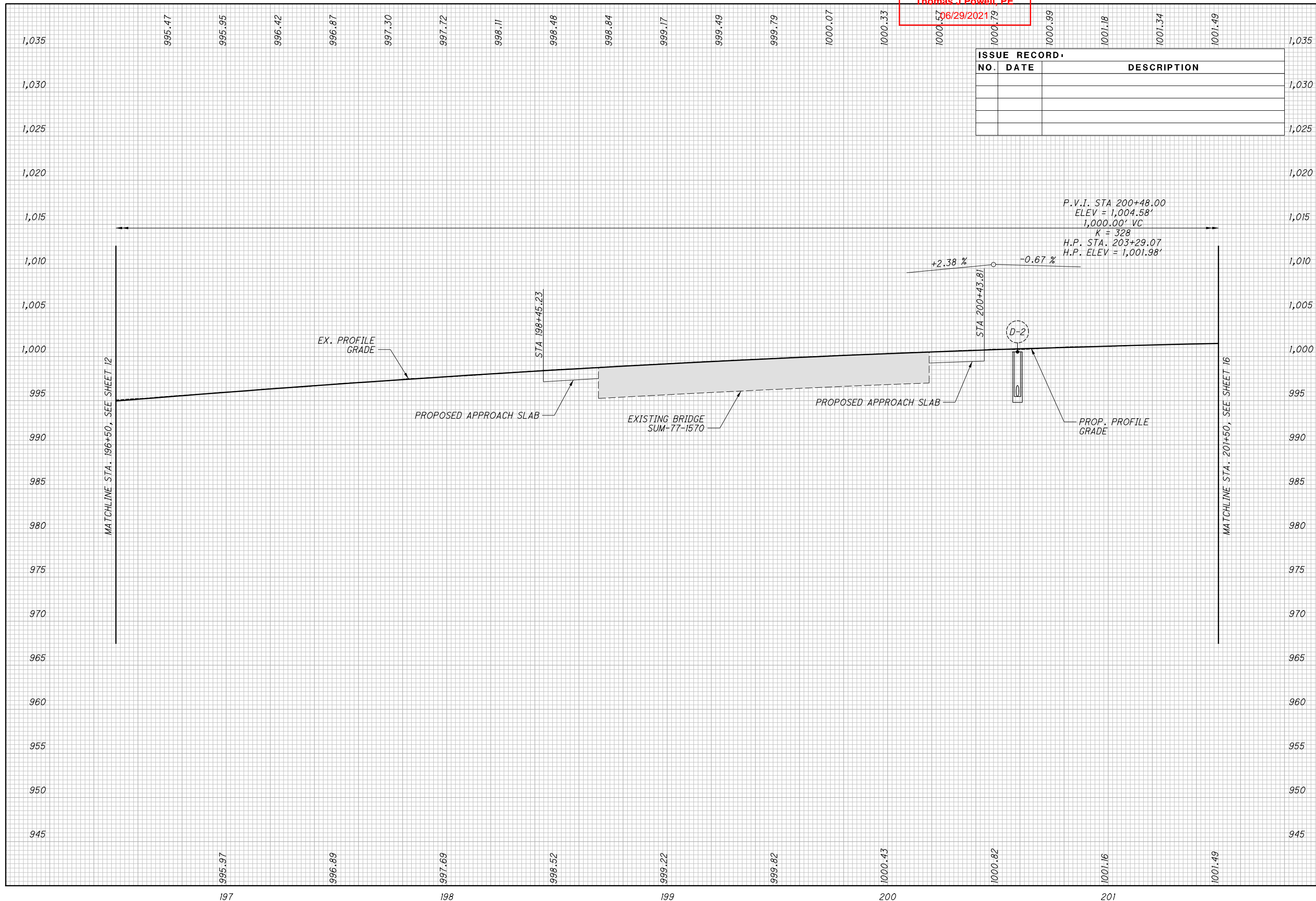


CROSS REFERENCES:
 FOR I-77 PROFILE, SEE SHEET 14
 FOR I-77 CROSS-SECTIONS, SEE SHEETS 45 - 47
 FOR RAMP TERMINAL DETAILS, SEE SHEET 77

PLAN - I.R. 77
 STA. 196+50 TO STA. 201+50

SUM-76 / 77 / 8-
 8.24 / 9.74 / 0.00

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06/29/2021



ISSUE RECORD		
NO.	DATE	DESCRIPTION

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PROFILE - I.R. 77
STA. 196+50 TO STA. 201+50

SUM-76 / 77 / 8-
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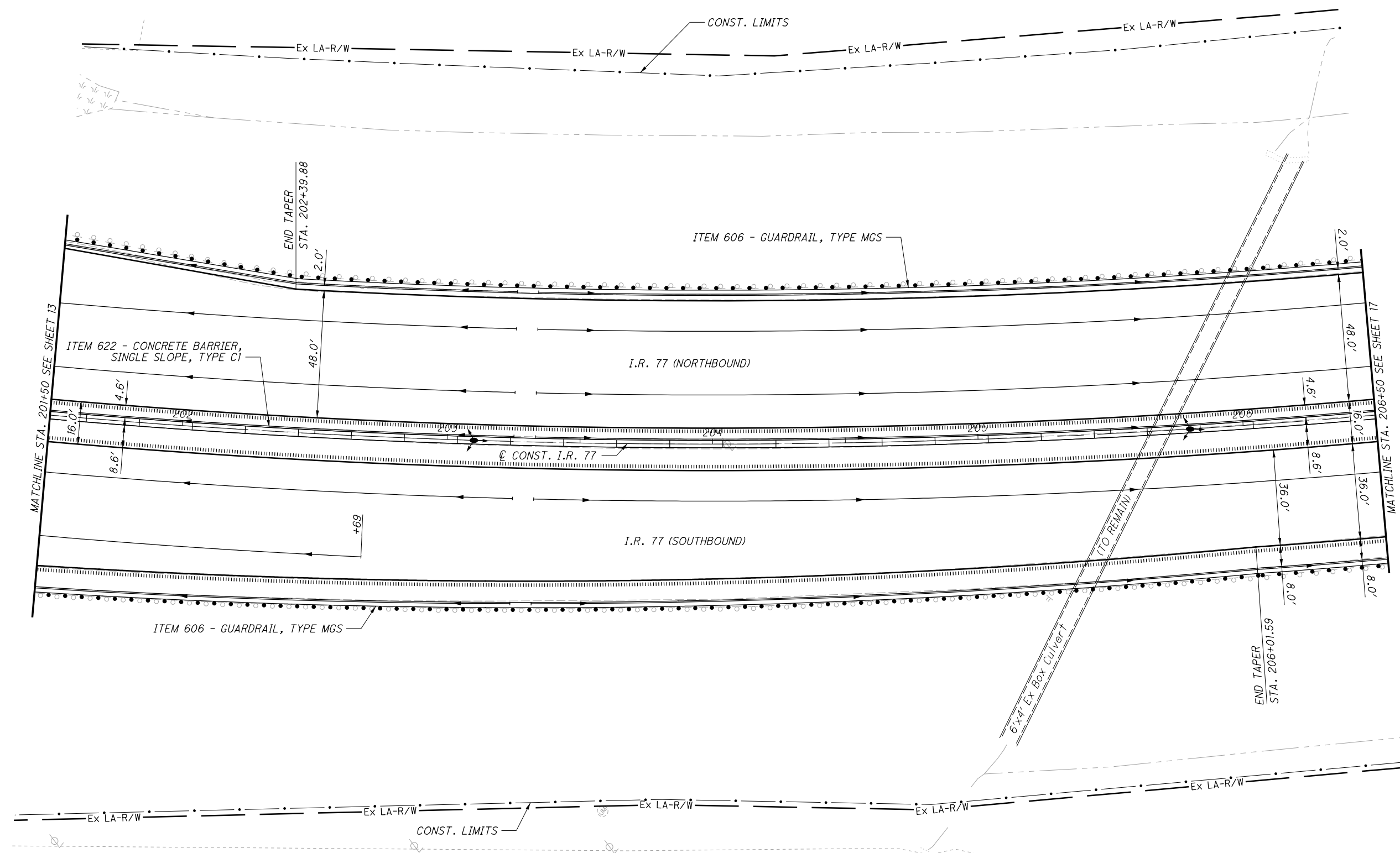
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Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
GLW
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HORIZONTAL
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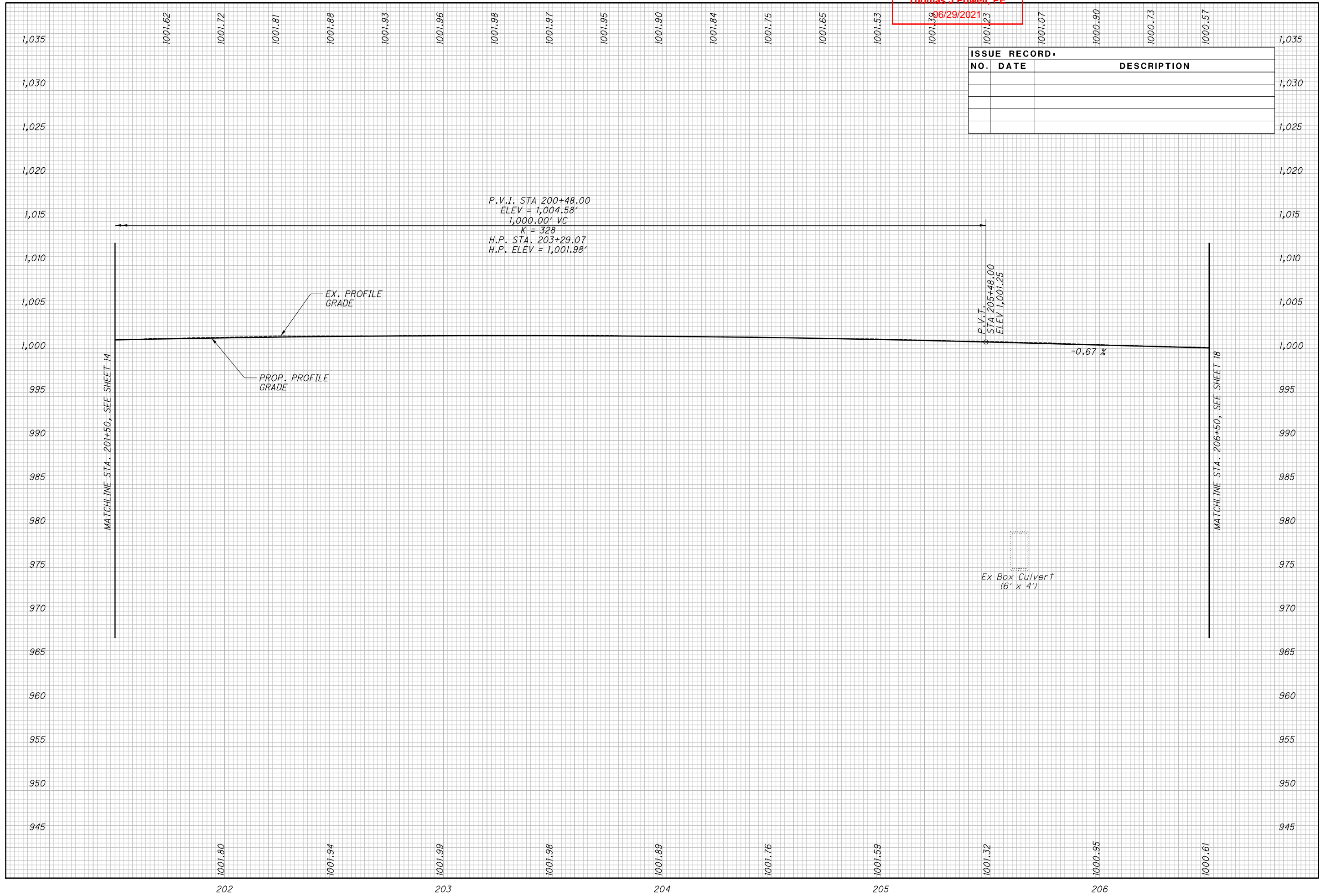


CROSS REFERENCES:
 FOR I-77 PROFILE, SEE SHEET 16
 FOR I-77 CROSS-SECTIONS, SEE SHEETS 47 - 51

PLAN - I.R. 77
 STA. 201+50 TO STA. 206+50

SUM-76 / 77 / 8-
 8.24 / 9.74 / 0.00

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Thomas J Powell, PE
06/29/2021



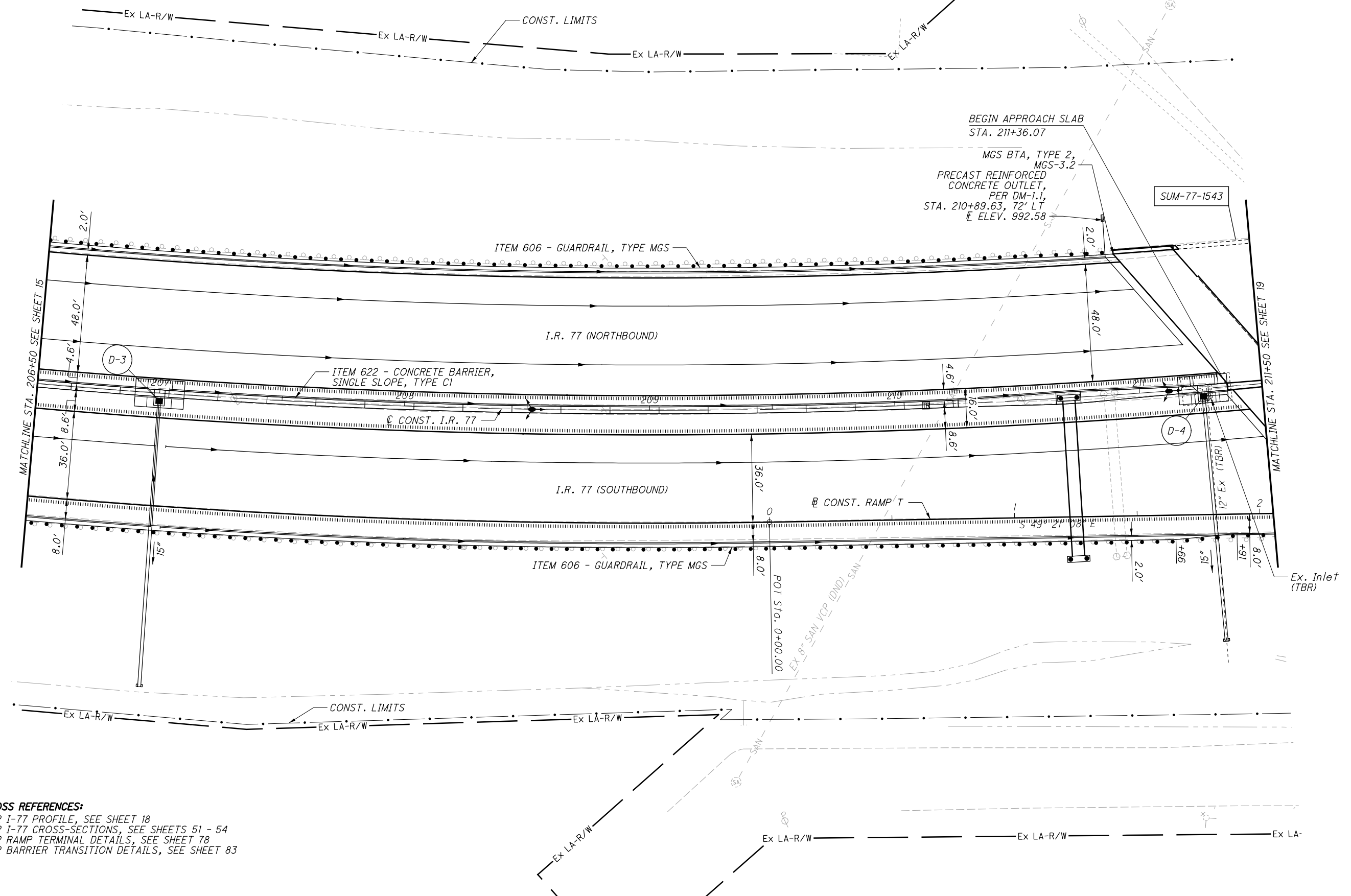
ISSUE RECORD		
NO.	DATE	DESCRIPTION

Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
GLW
CHECKED
JFM

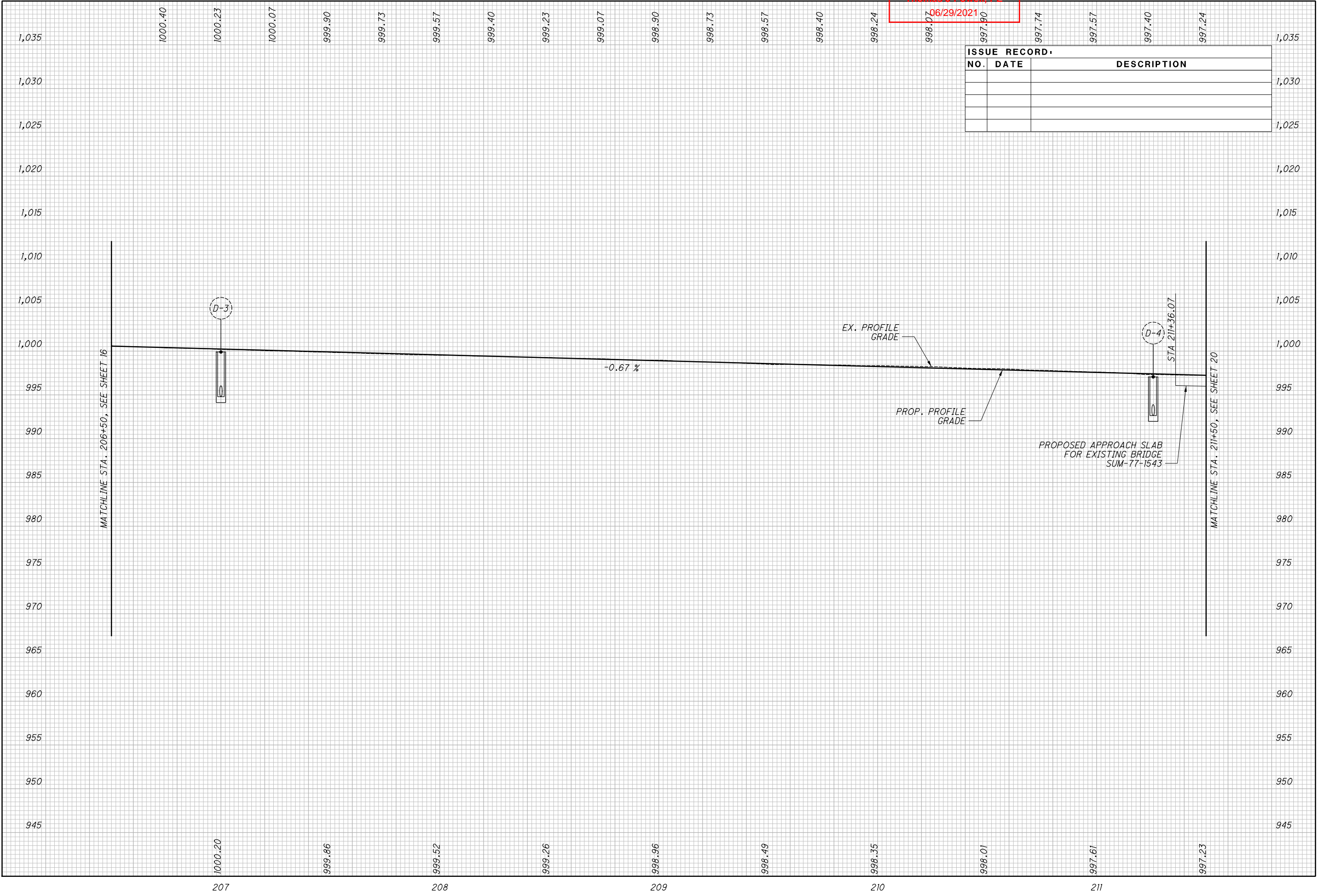
0 20 40
HORIZONTAL
SCALE IN FEET



CROSS REFERENCES:
 FOR I-77 PROFILE, SEE SHEET 18
 FOR I-77 CROSS-SECTIONS, SEE SHEETS 51 - 54
 FOR RAMP TERMINAL DETAILS, SEE SHEET 78
 FOR BARRIER TRANSITION DETAILS, SEE SHEET 83

PLAN - I.R. 77
 STA. 206+50 TO STA. 211+50

SUM-76 / 77 / 8-
 8.24 / 9.74 / 0.00



Released for Construction
 Thomas J Powell, PE
 06/29/2021

ISSUE RECORD		
NO.	DATE	DESCRIPTION

CALCULATED
 SGM
 CHECKED
 GF

PROFILE - I.R. 77
 STA. 206+50 TO STA. 211+50

SUM-76 / 77 / 8-
 8.24 / 9.74 / 0.00

18
 83

Released for Construction
Thomas J Powell, PE
08/11/2021

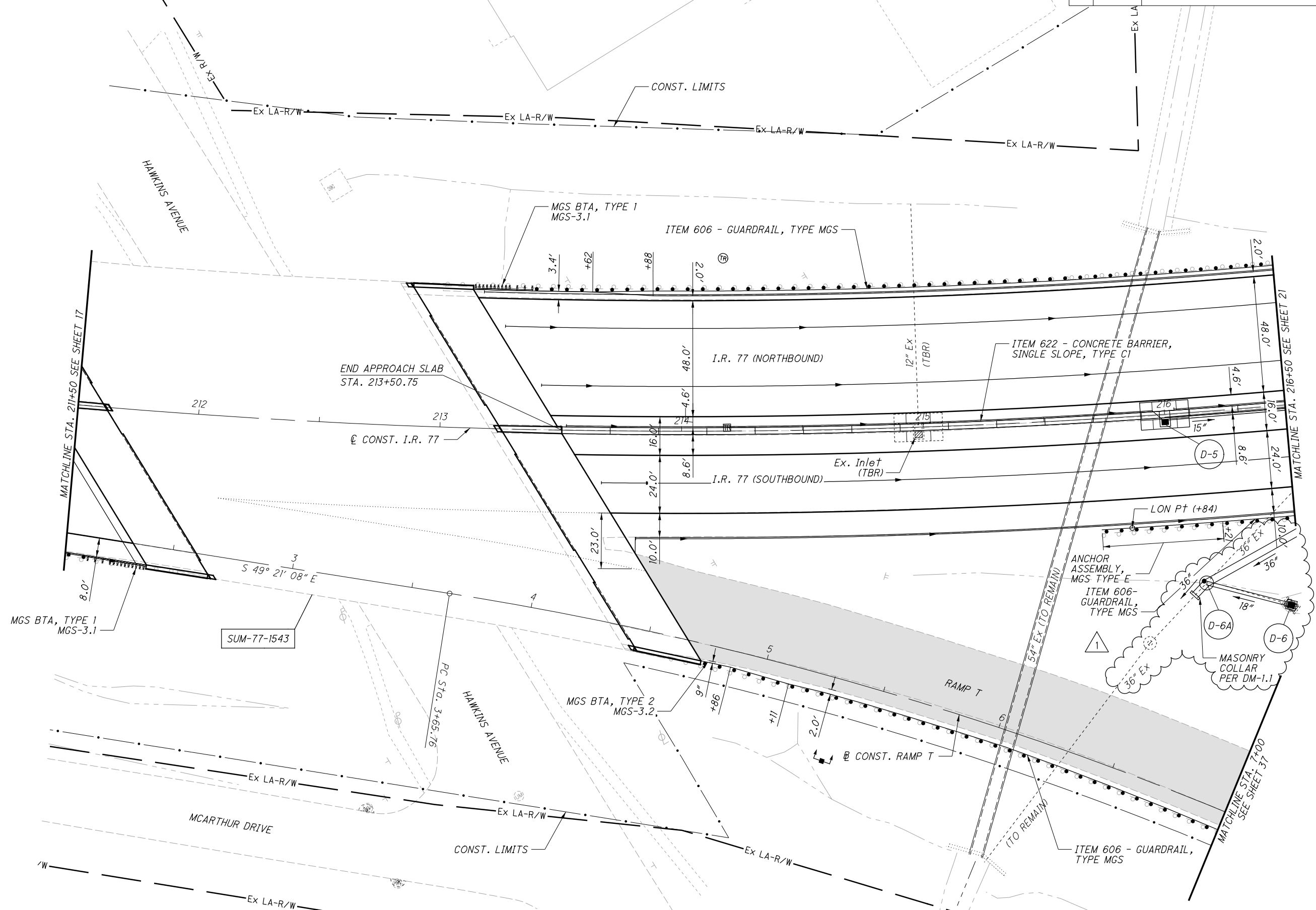
ISSUE RECORD:		
NO.	DATE	DESCRIPTION
1	8/6/2021	REVISED STORM SEWER

CALCULATED
GLW
CHECKED
JFM

0 20 40
HORIZONTAL
SCALE IN FEET

CROSS REFERENCES:
FOR I-77 PROFILE, SEE SHEET 20
FOR I-77 CROSS-SECTIONS, SEE SHEETS 54 - 56
FOR RAMP TERMINAL DETAILS, SEE SHEET 78

RESURFACING LIMITS

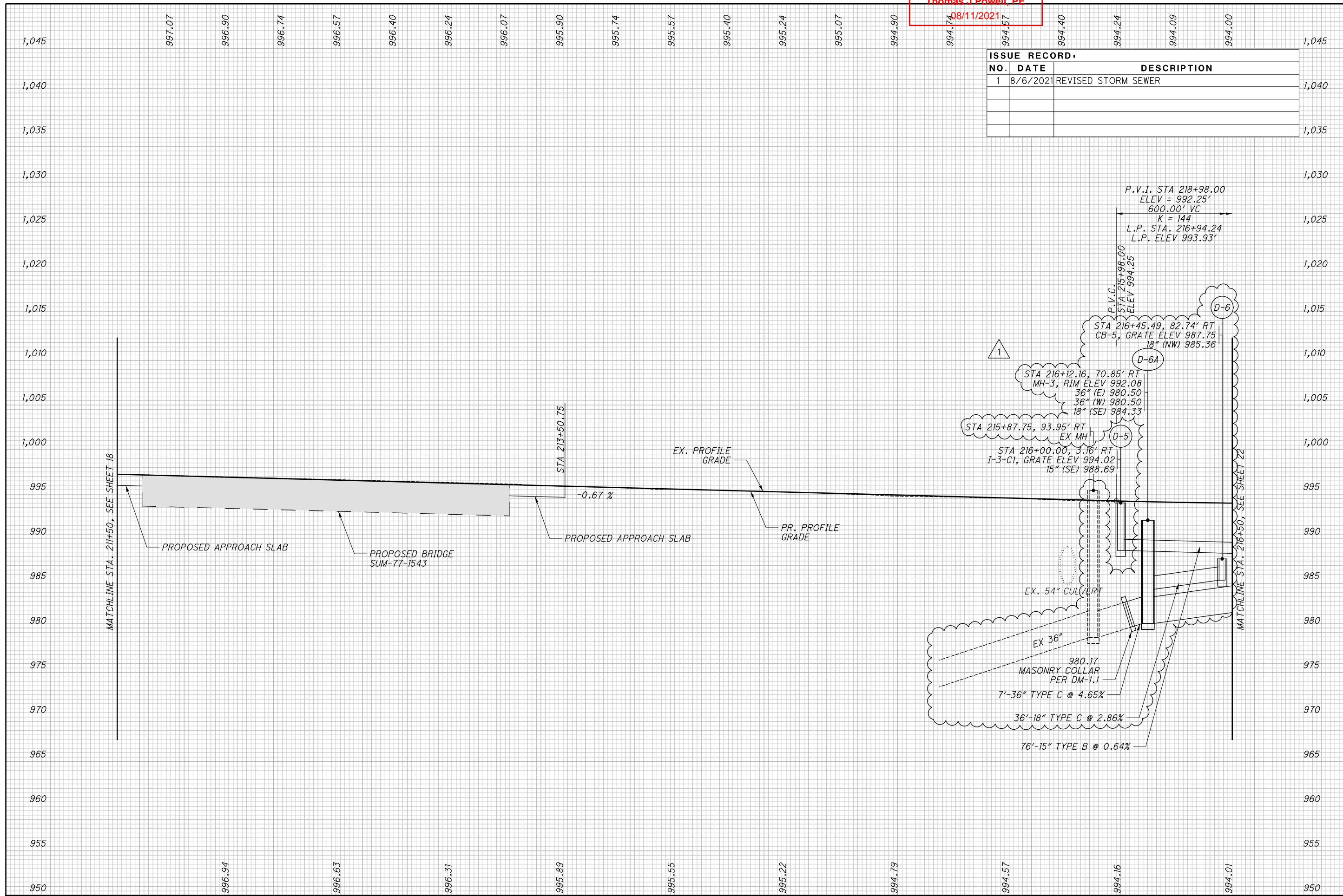


PLAN - I.R. 77
STA. 211+50 TO STA. 216+50

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

19
83

Released for Construction
Thomas J Powell, PE
08/11/2021



ISSUE RECORD		
NO.	DATE	DESCRIPTION
1	8/6/2021	REVISED STORM SEWER

CALCULATED	SGM
CHECKED	GF

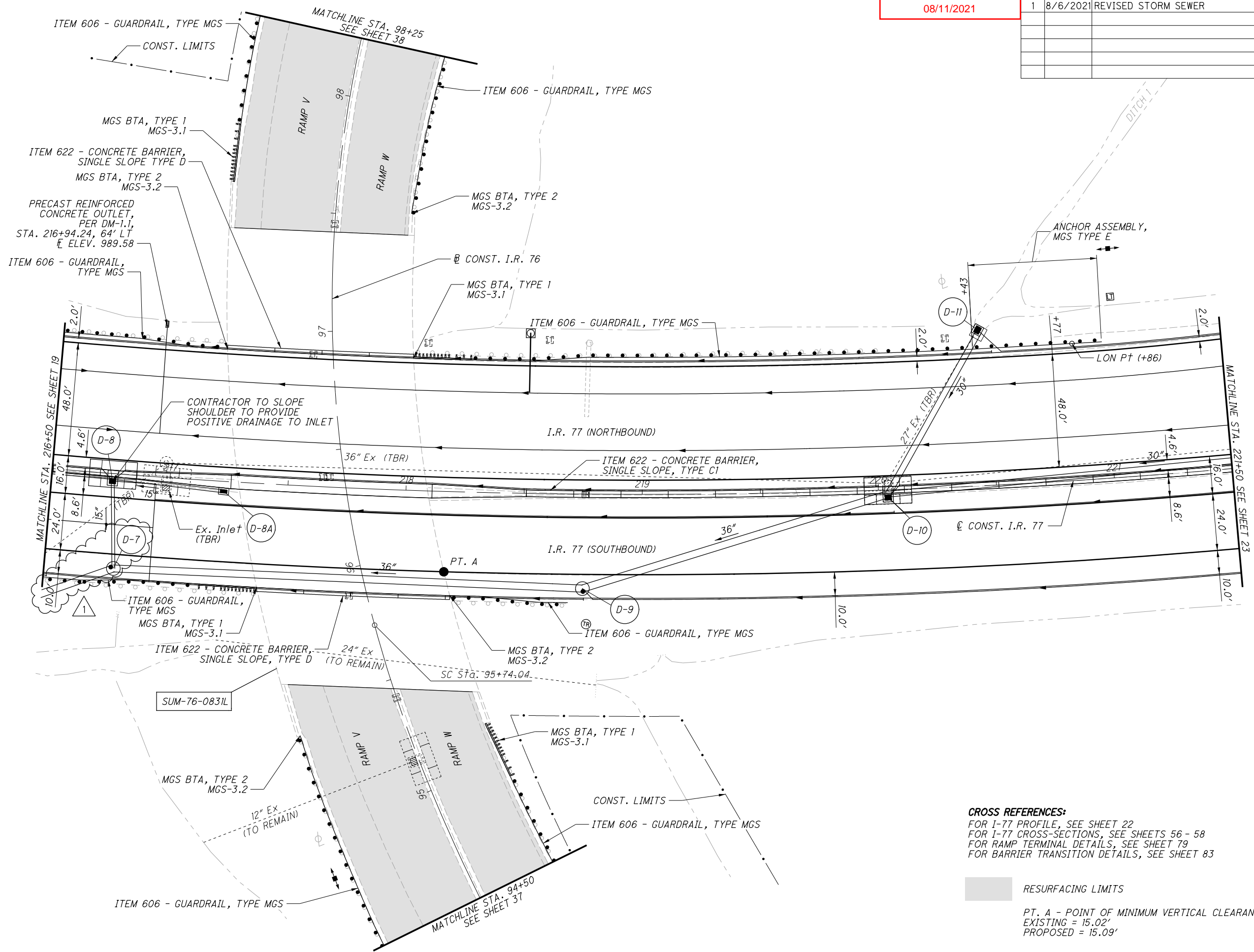
SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

PROFILE - I.R. 77
STA. 211+50 TO STA. 216+50

20
83

Released for Construction
Thomas J Powell, PE
08/11/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION
1	8/6/2021	REVISED STORM SEWER



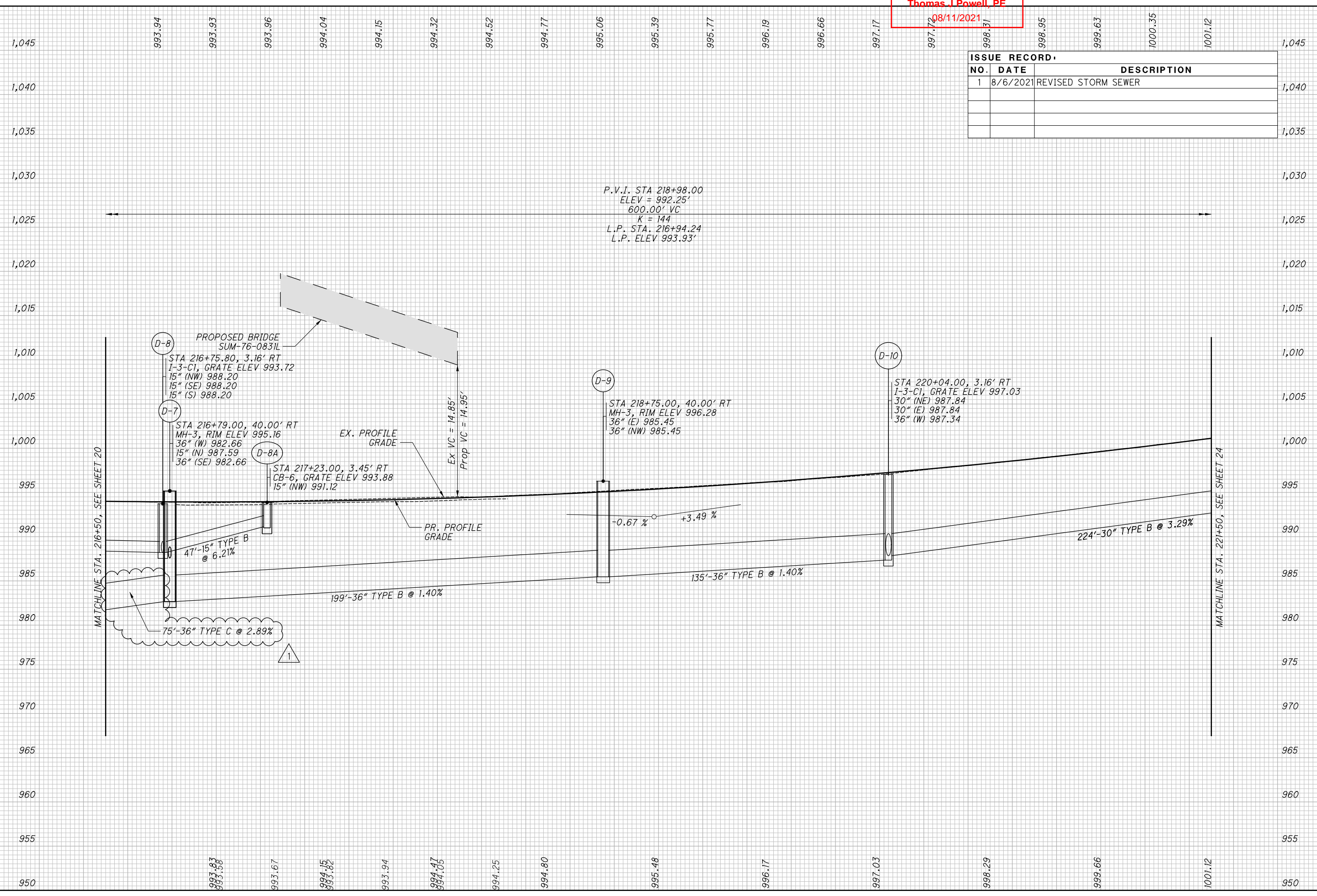
CROSS REFERENCES:
 FOR I-77 PROFILE, SEE SHEET 22
 FOR I-77 CROSS-SECTIONS, SEE SHEETS 56 - 58
 FOR RAMP TERMINAL DETAILS, SEE SHEET 79
 FOR BARRIER TRANSITION DETAILS, SEE SHEET 83

RESURFACING LIMITS
 PT. A - POINT OF MINIMUM VERTICAL CLEARANCE
 EXISTING = 15.02'
 PROPOSED = 15.09'

PLAN - I.R. 77
STA. 216+50 TO STA. 221+50

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

Released for Construction
Thomas J Powell, PE
08/11/2021



ISSUE RECORD		
NO.	DATE	DESCRIPTION
1	8/6/2021	REVISED STORM SEWER

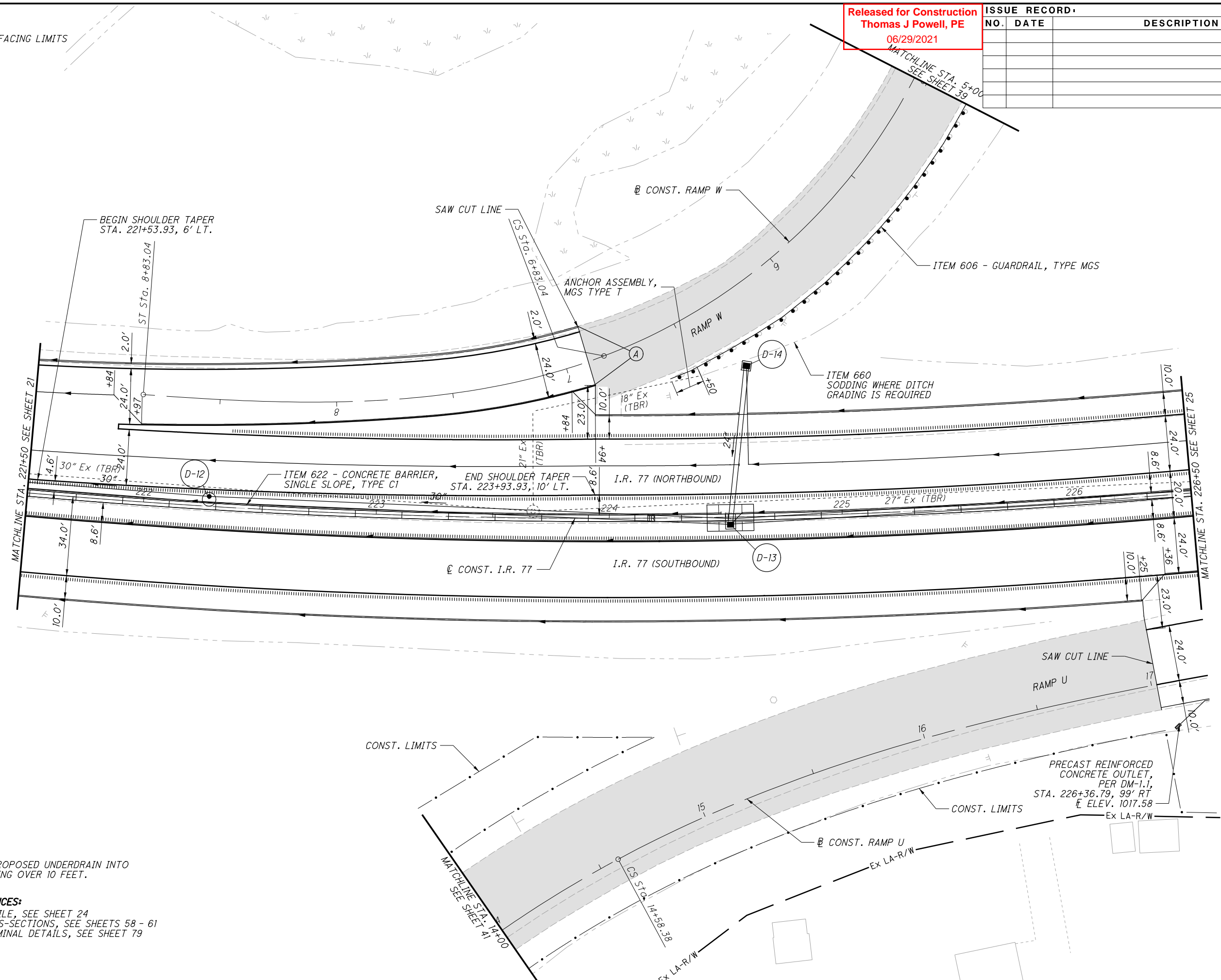
Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
GLW
CHECKED
JFM

HORIZONTAL SCALE IN FEET

RESURFACING LIMITS



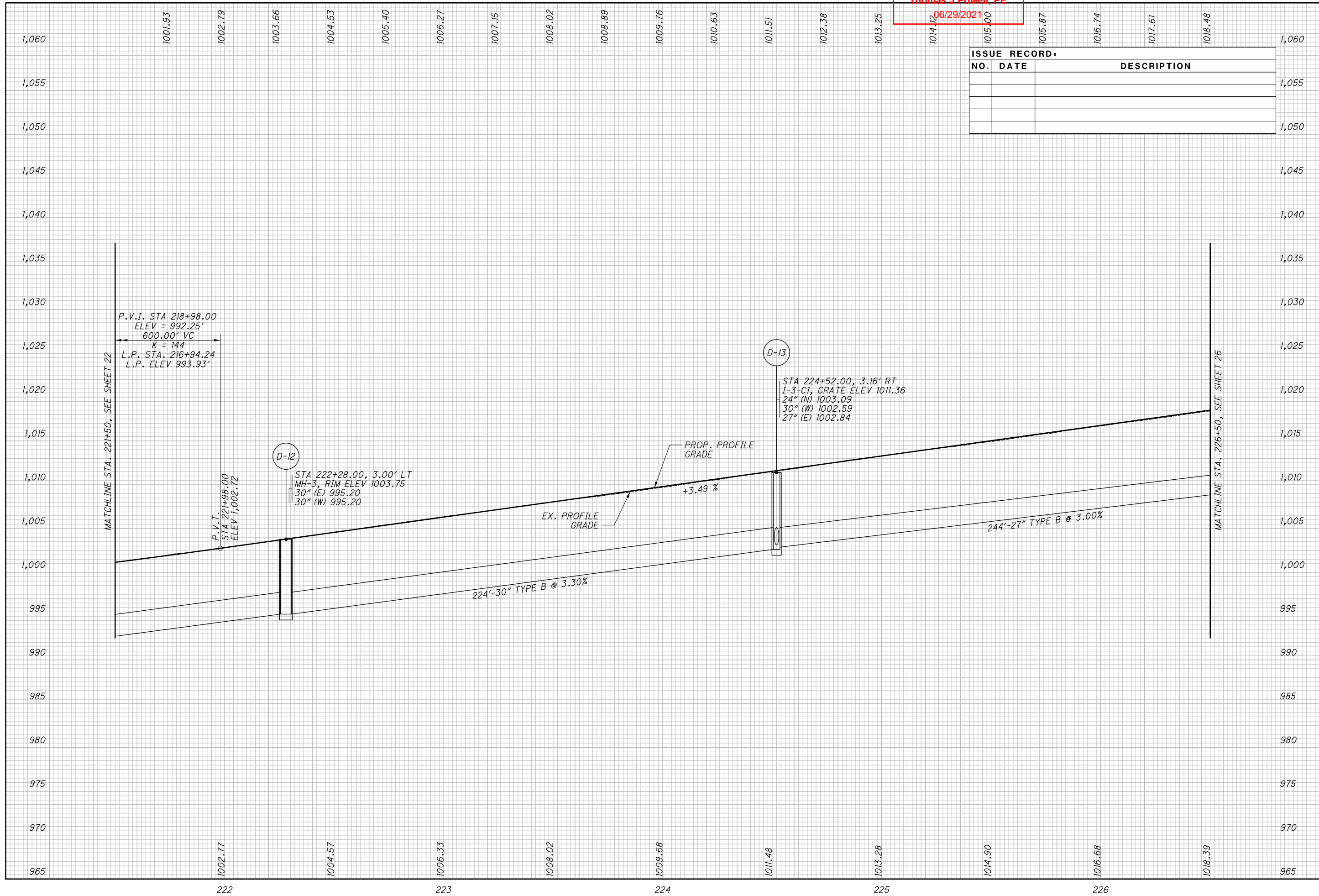
(A) TIE PROPOSED UNDERDRAIN INTO EXISTING OVER 10 FEET.

CROSS REFERENCES:
FOR I-77 PROFILE, SEE SHEET 24
FOR I-77 CROSS-SECTIONS, SEE SHEETS 58 - 61
FOR RAMP TERMINAL DETAILS, SEE SHEET 79

PLAN - I.R. 77
STA. 221+50 TO STA. 226+50

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

Released for Construction
 Thomas J Powell, PE
 06/29/2021



ISSUE RECORD		
NO.	DATE	DESCRIPTION

CALCULATED	SGM
CHECKED	GF

PROFILE - I.R. 77
STA. 221+50 TO STA. 226+50

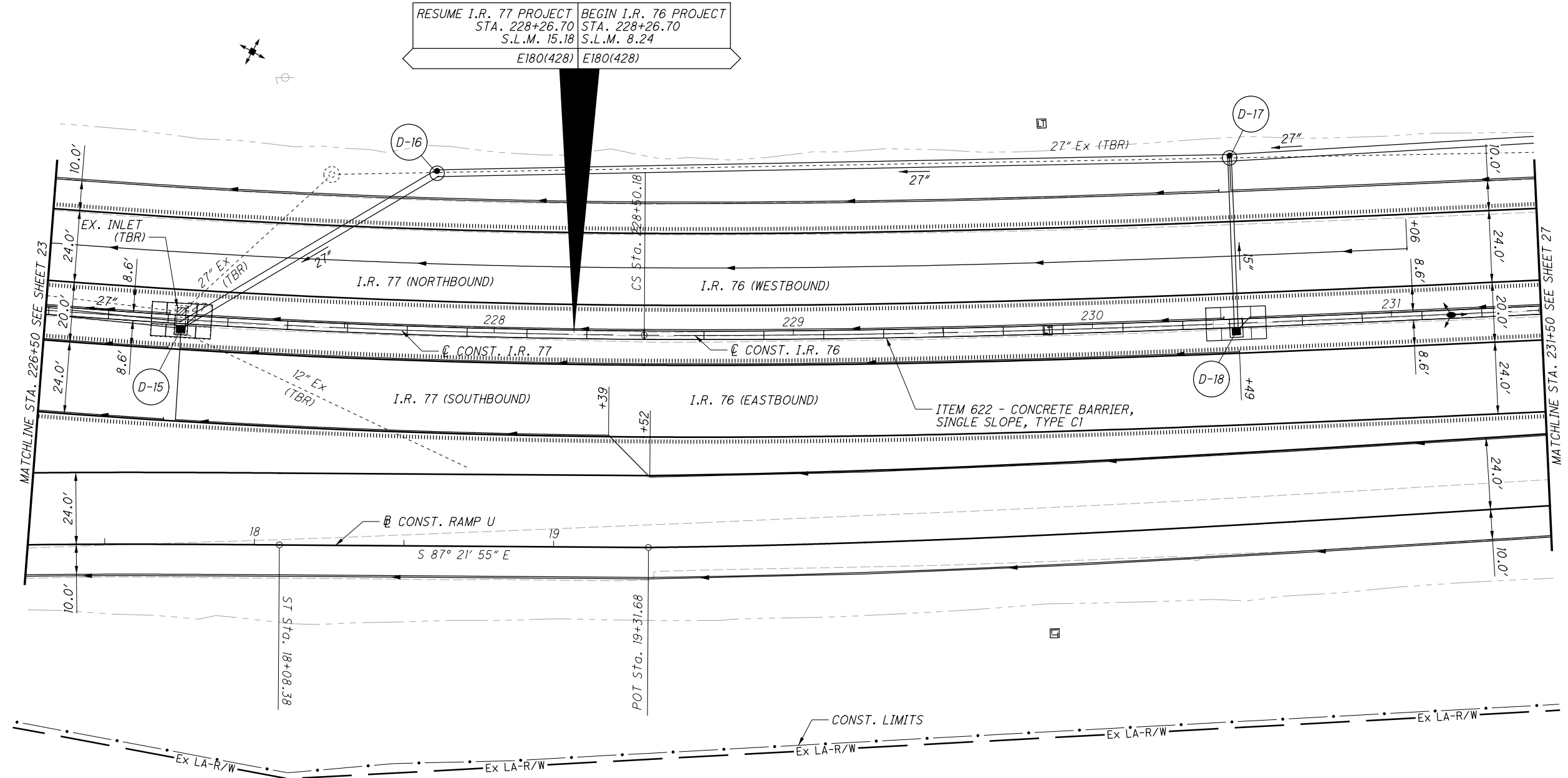
SUM-76 / 77 / 8-
 8.24 / 9.74 / 0.00

24
 83

Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
GLW
CHECKED
JFM



RESUME I.R. 77 PROJECT STA. 228+26.70 S.L.M. 15.18 E180(428)	BEGIN I.R. 76 PROJECT STA. 228+26.70 S.L.M. 8.24 E180(428)
---	---

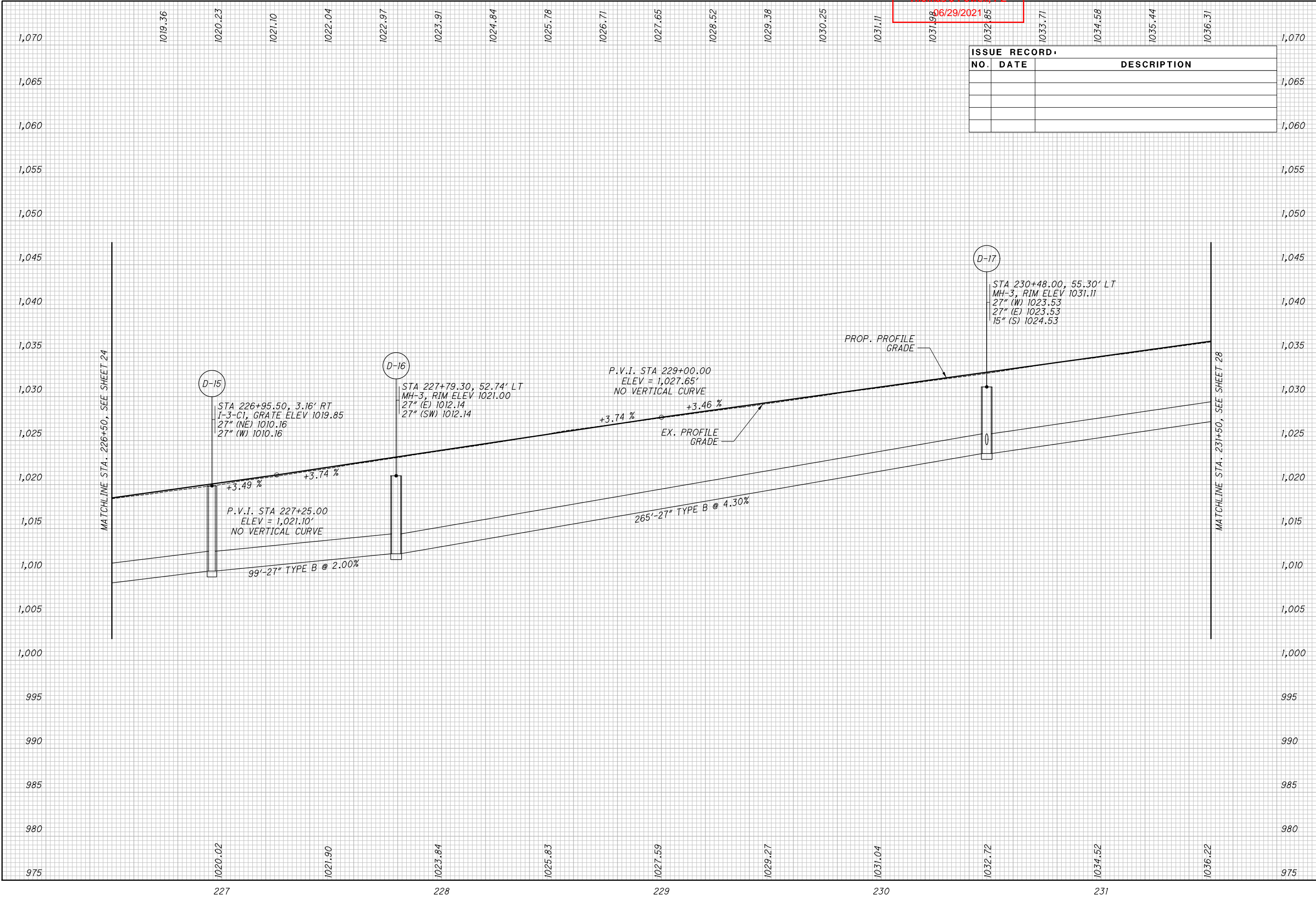
CROSS REFERENCES:
 FOR I-76/I-77 PROFILE, SEE SHEET 26
 FOR I-76/I-77 CROSS-SECTIONS, SEE SHEETS 61 - 64
 FOR SUPERELEVATION TABLES, SEE SHEETS 73 & 74
 FOR RAMP TERMINAL DETAILS, SEE SHEET 80

PLAN - I.R. 76 / I.R. 77
 STA. 226+50 TO STA. 231+50

SUM-76 / 77 / 8-
 8.24 / 9.74 / 0.00

25
83

Released for Construction
Thomas J Powell, PE
06/29/2021



ISSUE RECORD		
NO.	DATE	DESCRIPTION

CALCULATED SGM CHECKED GF

PROFILE - I.R. 76 / I.R. 77
STA. 226+50 TO STA. 231+50

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

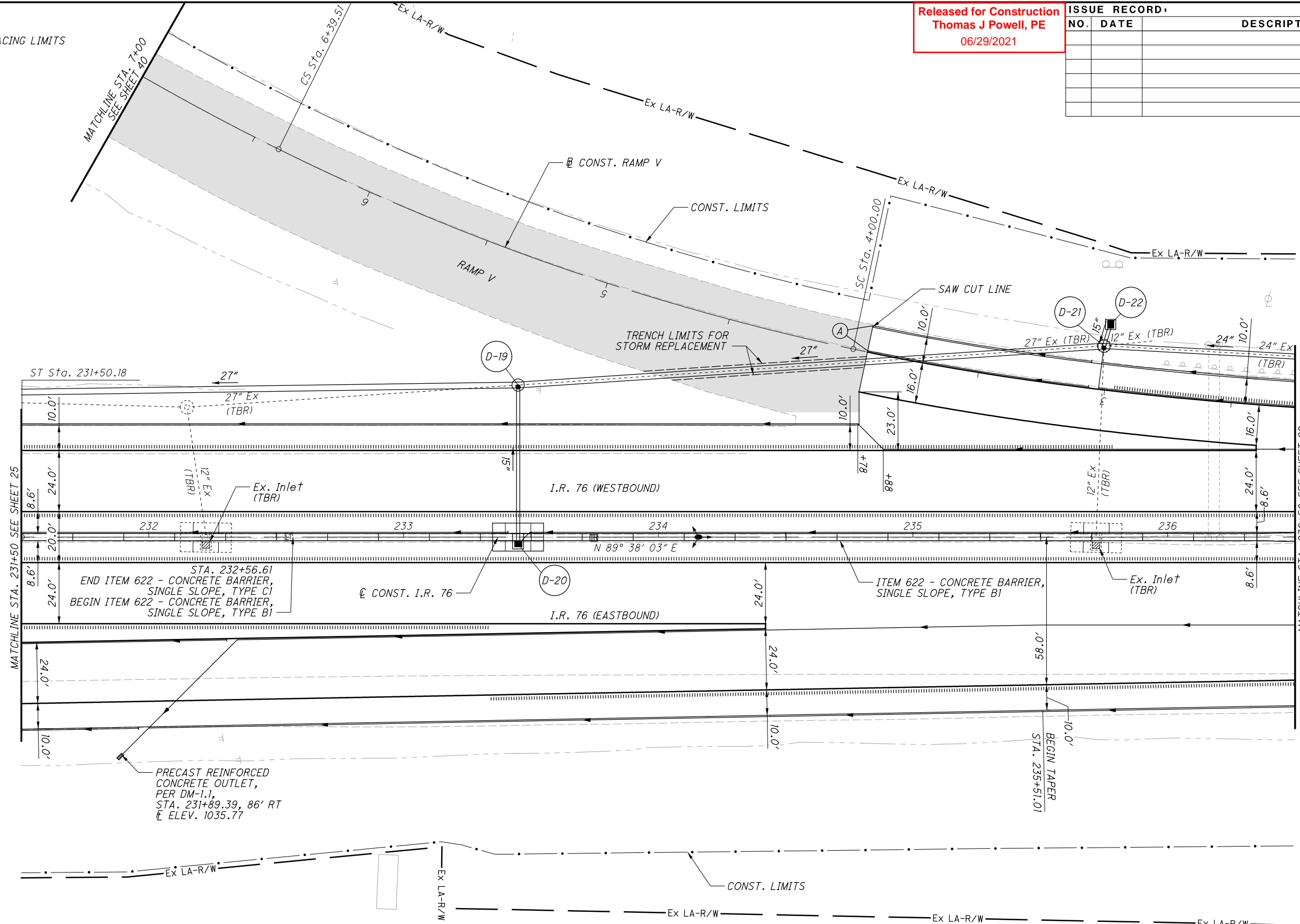
26 / 83

Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
GLW
CHECKED
JFM

HORIZONTAL SCALE IN FEET



(A) TIE PROPOSED UNDERDRAIN INTO EXISTING OVER 10 FEET.

CROSS REFERENCES:
 FOR I-76 PROFILE, SEE SHEET 28
 FOR I-76 CROSS-SECTIONS, SEE SHEETS 64 - 67
 FOR SUPERELEVATION TABLES, SEE SHEETS 73 & 74
 FOR RAMP TERMINAL DETAILS, SEE SHEET 81
 FOR BARRIER TRANSITION DETAILS, SEE SHEET 83

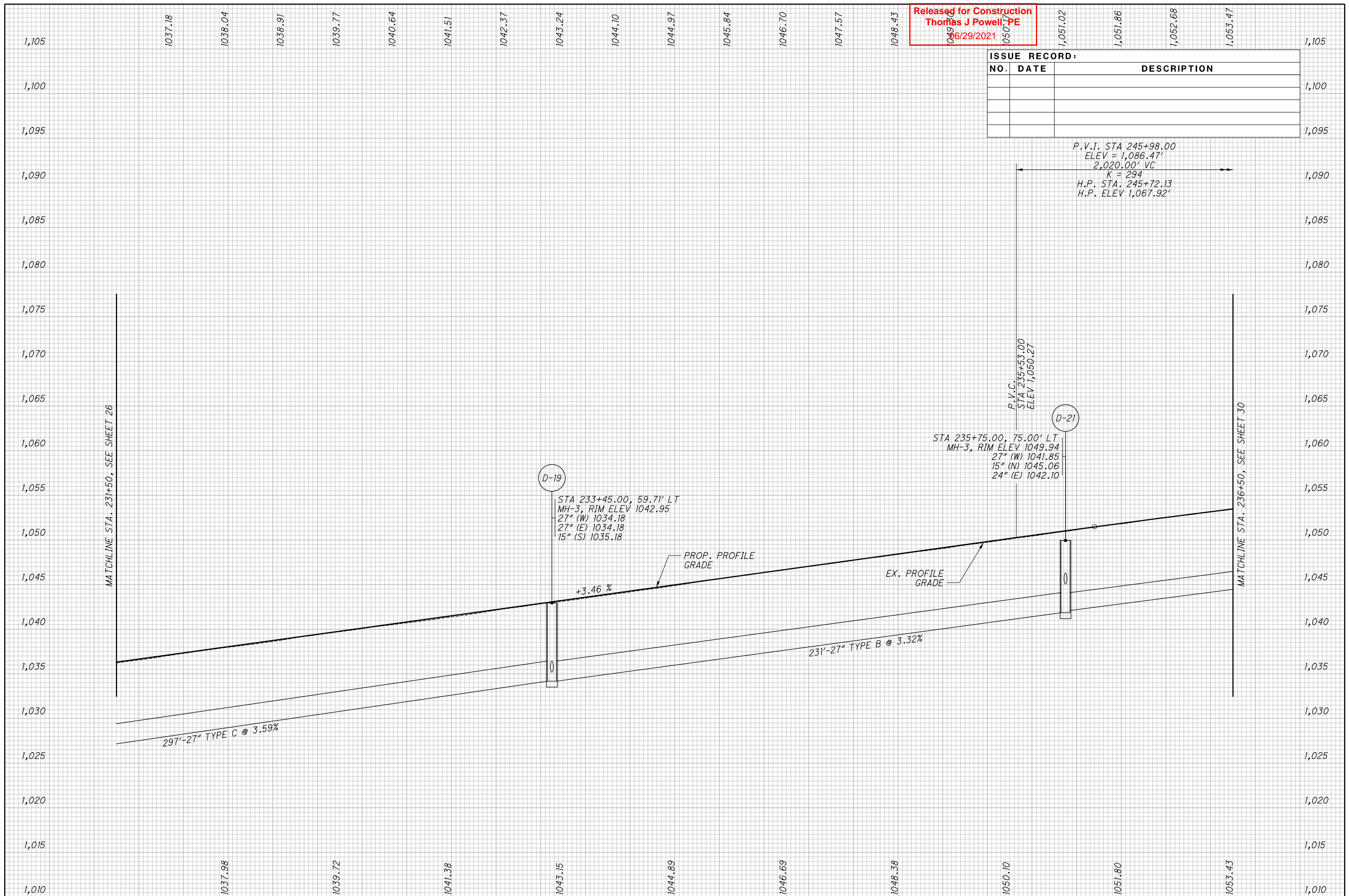
PLAN - I.R. 76
STA. 231+50 TO STA. 236+50

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

27
83

Released for Construction
 Thomas J Powell, PE
 06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION



MATCHLINE STA. 231+50, SEE SHEET 26

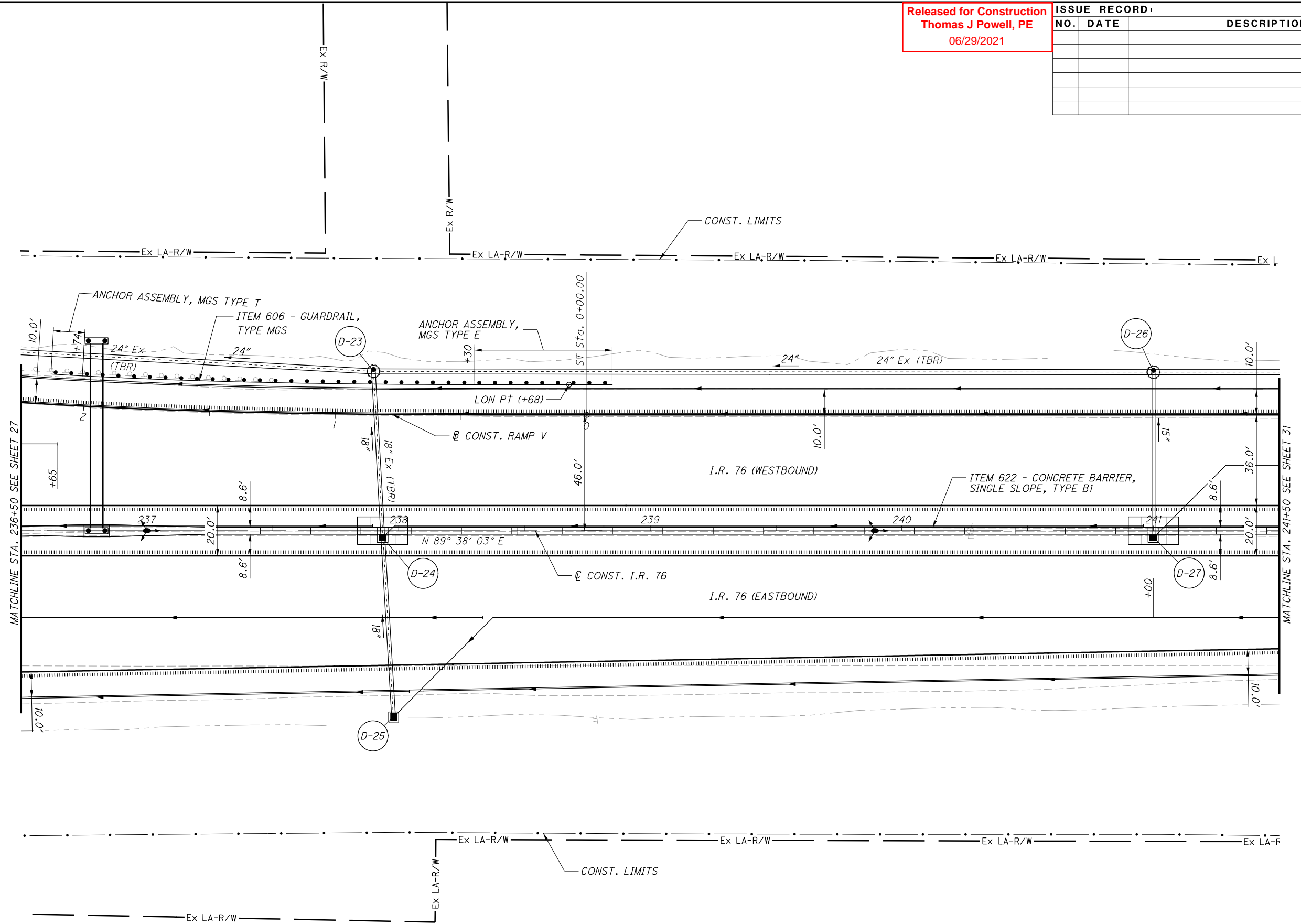
MATCHLINE STA. 236+50, SEE SHEET 30

Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
GLW
CHECKED
JFM

HORIZONTAL SCALE IN FEET



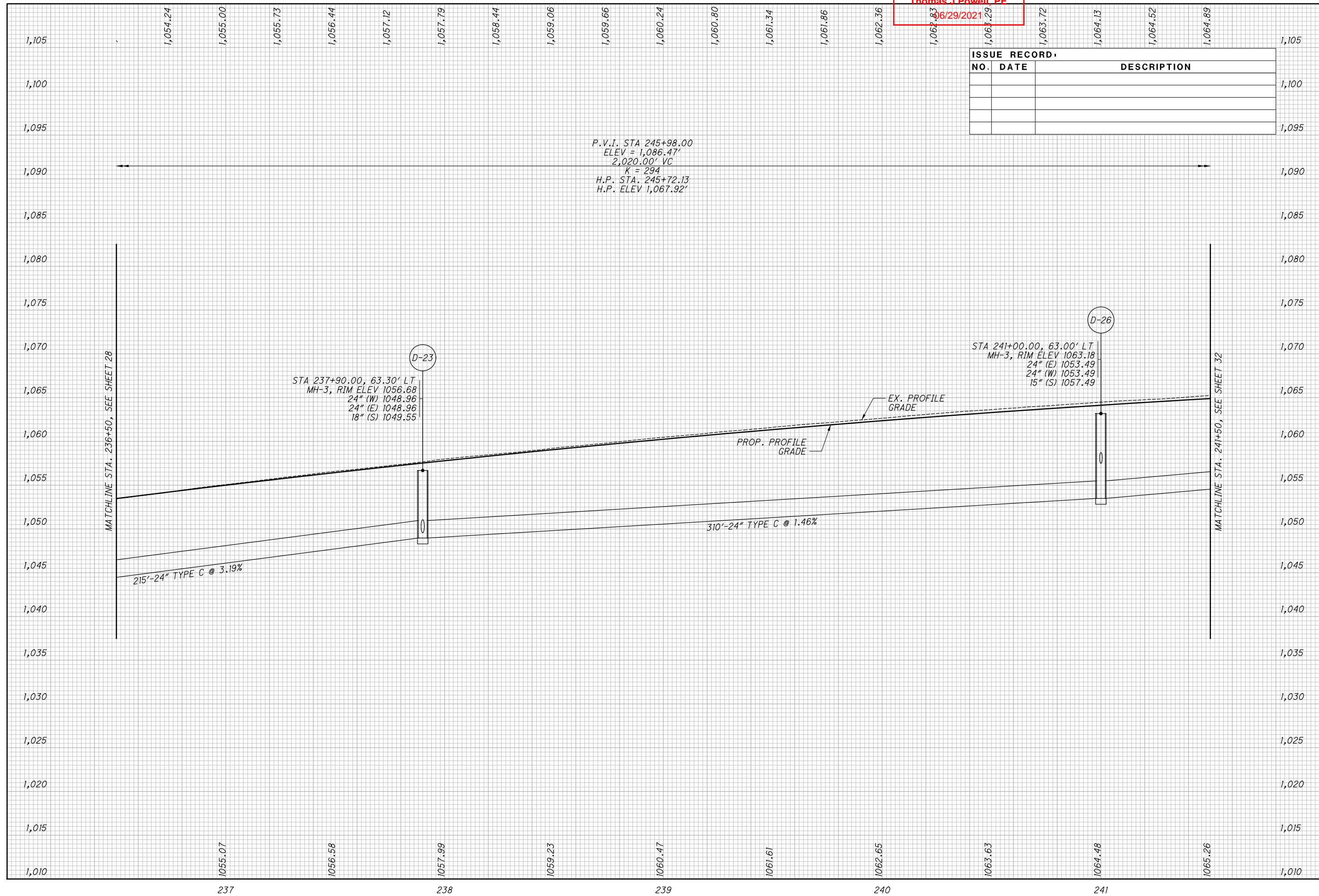
CROSS REFERENCES:
 FOR I-76 PROFILE, SEE SHEET 30
 FOR I-76 CROSS-SECTIONS, SEE SHEETS 67 - 70
 FOR RAMP TERMINAL DETAILS, SEE SHEET 81
 FOR BARRIER TRANSITION DETAILS, SEE SHEET 83

PLAN - I.R. 77
 STA. 236+50 TO STA. 241+50

SUM-76 / 77 / 8-
 8.24 / 9.74 / 0.00

29
 83

Released for Construction
Thomas J Powell PE
6/29/2021



ISSUE RECORD		
NO.	DATE	DESCRIPTION

CALCULATED	SGM
CHECKED	GF

PROFILE - I.R. 76
STA. 236+50 TO STA. 241+50

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

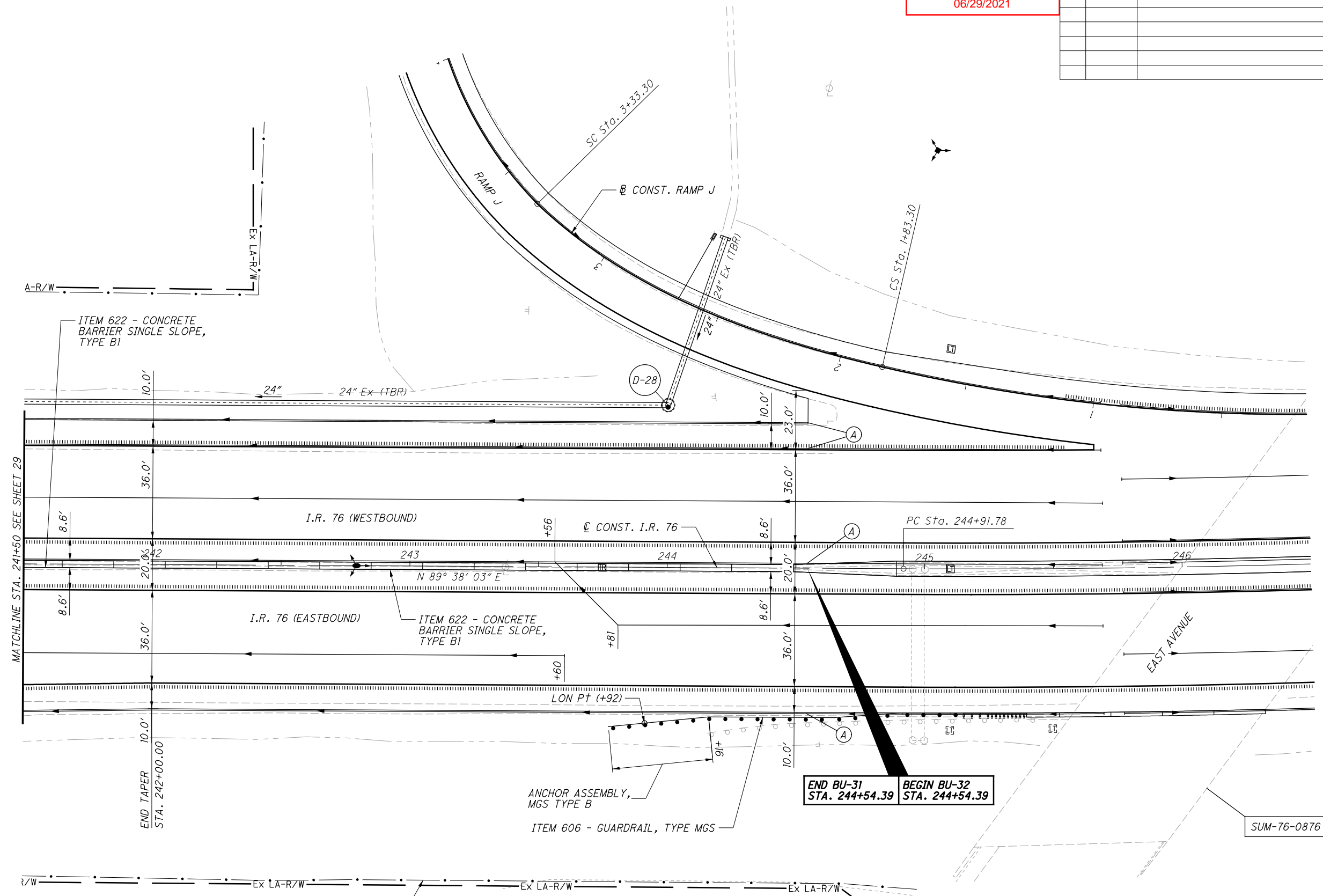
30
83

Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
GLW
CHECKED
JFM

HORIZONTAL SCALE IN FEET



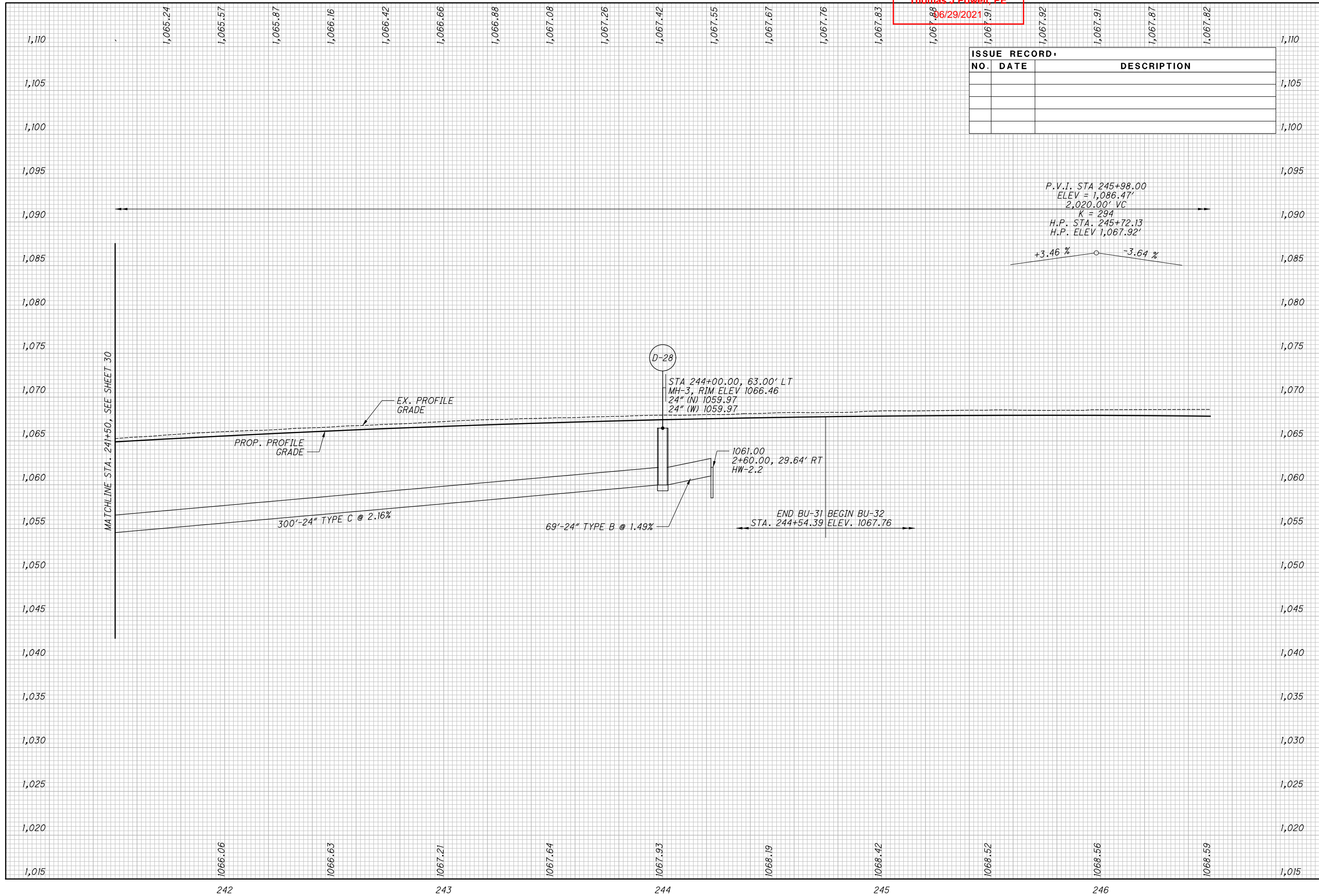
(A) TIE PROPOSED UNDERDRAIN INTO EXISTING OVER 10 FEET.

CROSS REFERENCES:
FOR I-76 PROFILE, SEE SHEET 32
FOR I-76 CROSS-SECTIONS, SEE SHEETS 70 - 72
FOR SUPERELEVATION TABLES, SEE SHEETS 75 & 76

PLAN - I.R. 76
STA. 241+50 TO STA. 244+54.39

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

Released for Construction
Thomas J Powell, PE
6/29/2021



ISSUE RECORD		
NO.	DATE	DESCRIPTION

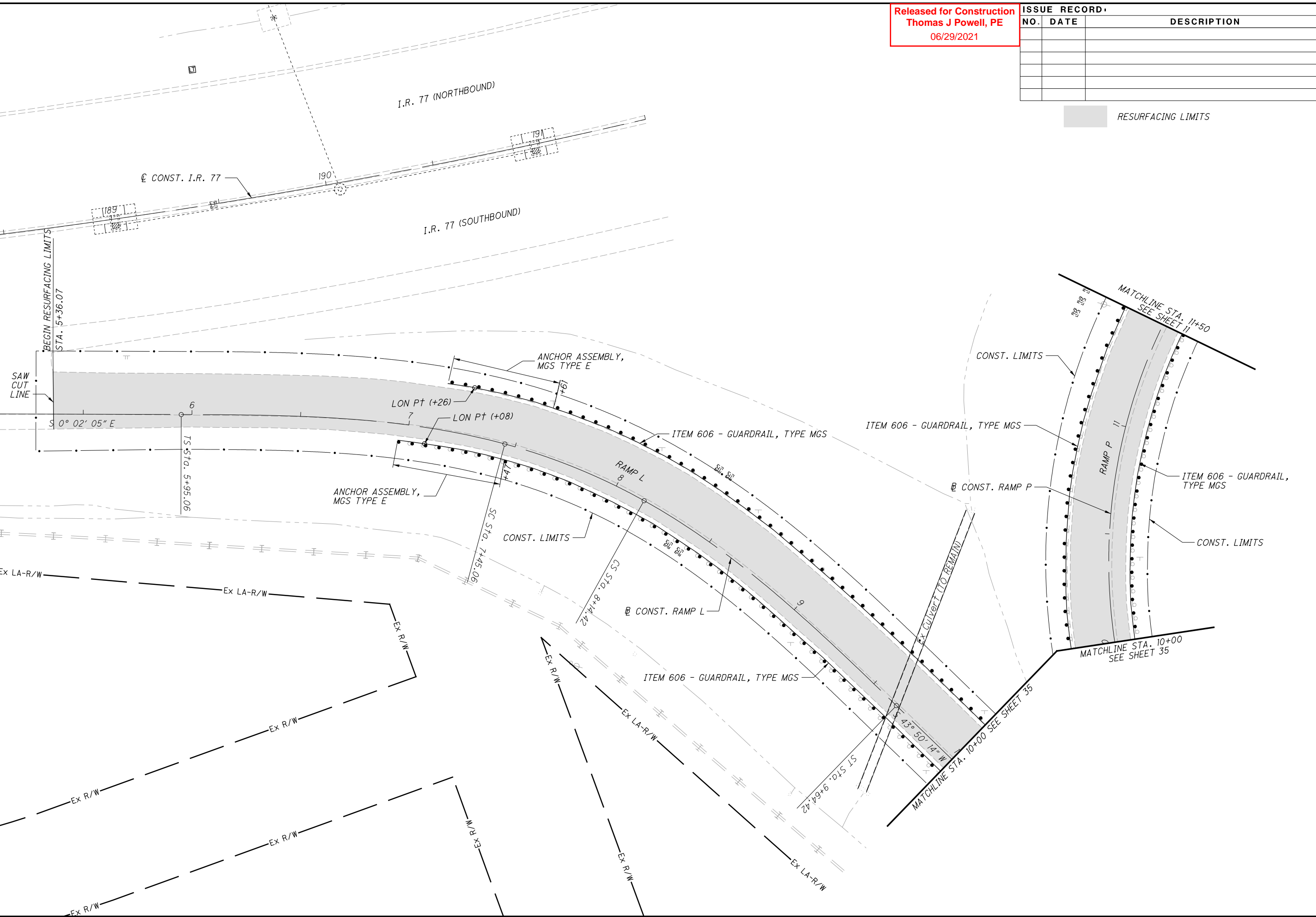
Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

RESURFACING LIMITS



CALCULATED
GLW
CHECKED
JFM



PLAN - RAMP L & RAMP P
RESURFACING LIMITS

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

RESURFACING LIMITS

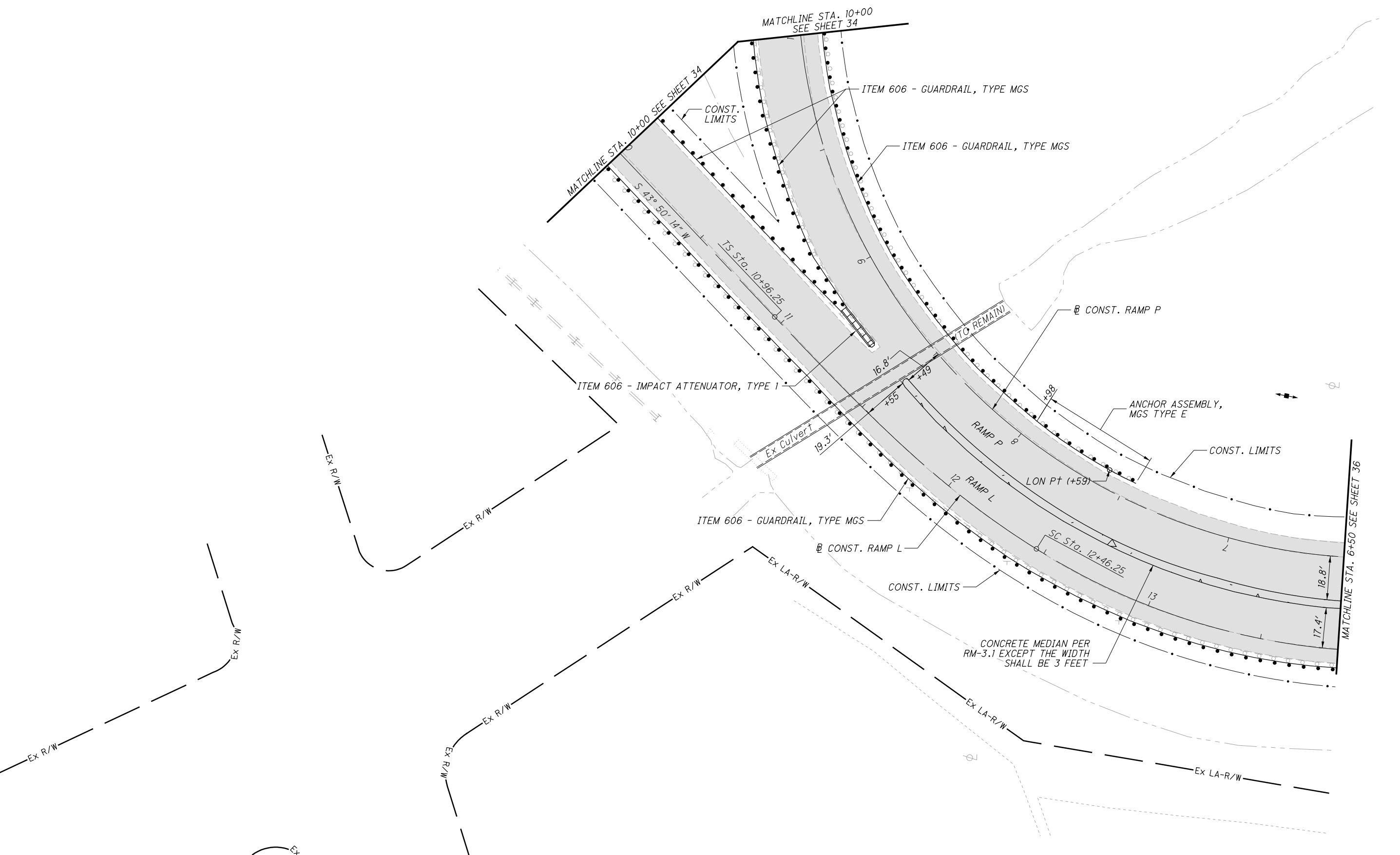
Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
GLW
CHECKED
JFM

PLAN - RAMP L & RAMP P
RESURFACING LIMITS

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

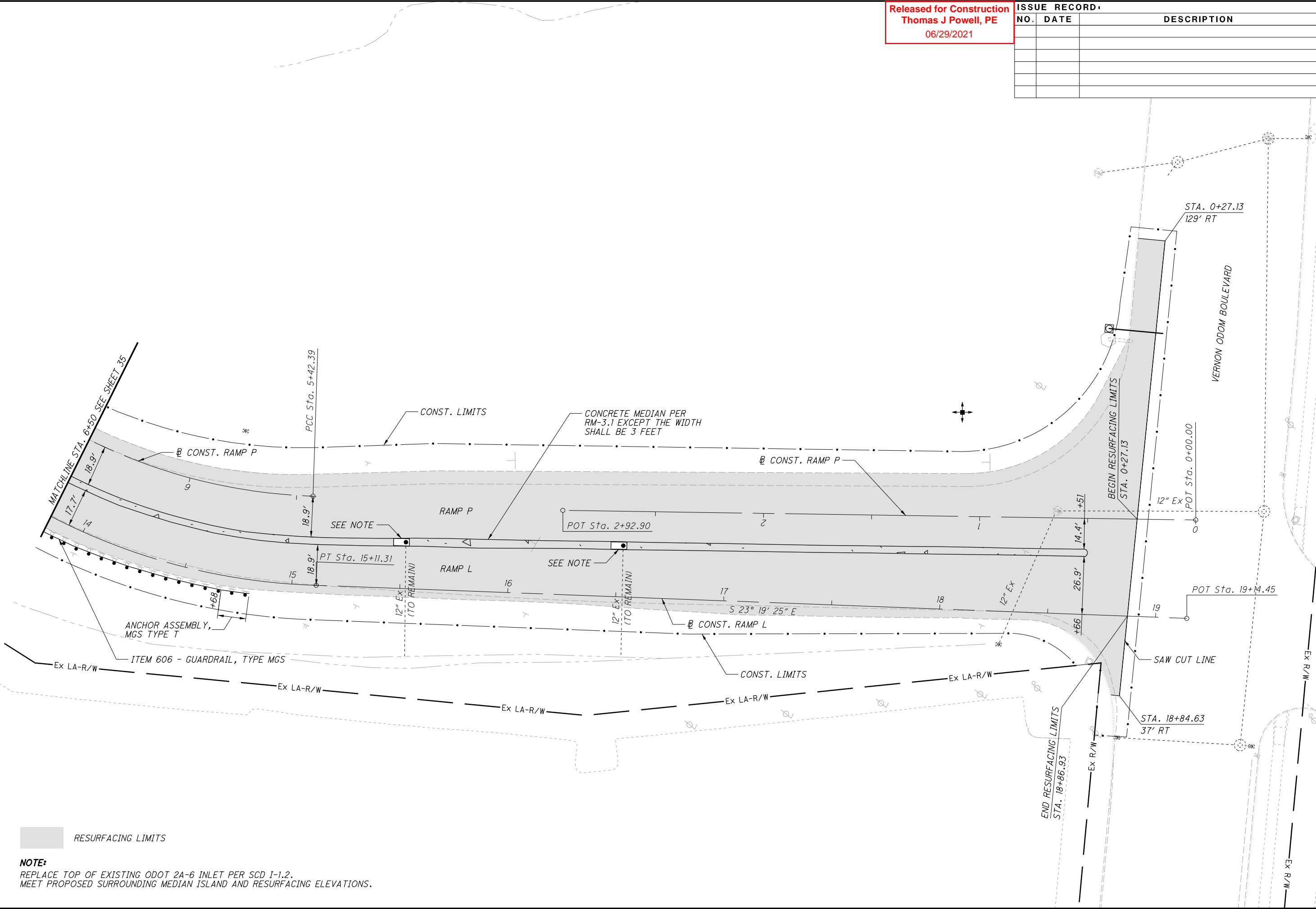


Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
GLW
CHECKED
JFM

HORIZONTAL SCALE IN FEET



RESURFACING LIMITS

NOTE:
REPLACE TOP OF EXISTING ODOT 2A-6 INLET PER SCD 1-1.2.
MEET PROPOSED SURROUNDING MEDIAN ISLAND AND RESURFACING ELEVATIONS.

PLAN - RAMP L & RAMP P
RESURFACING LIMITS

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

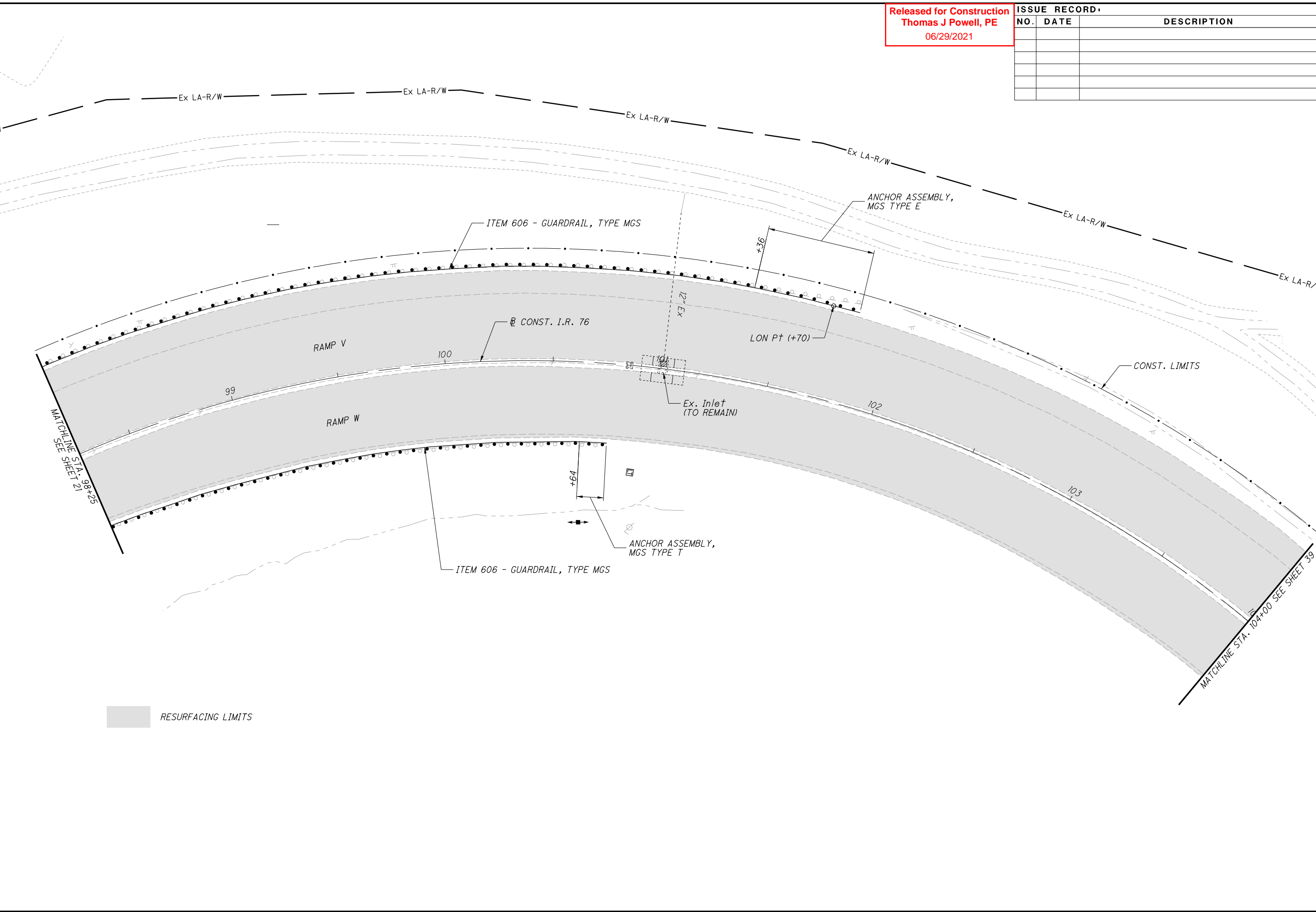
36
83

Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
GLW
CHECKED
JFM

HORIZONTAL SCALE IN FEET



PLAN - RAMP V & RAMP W
RESURFACING LIMITS

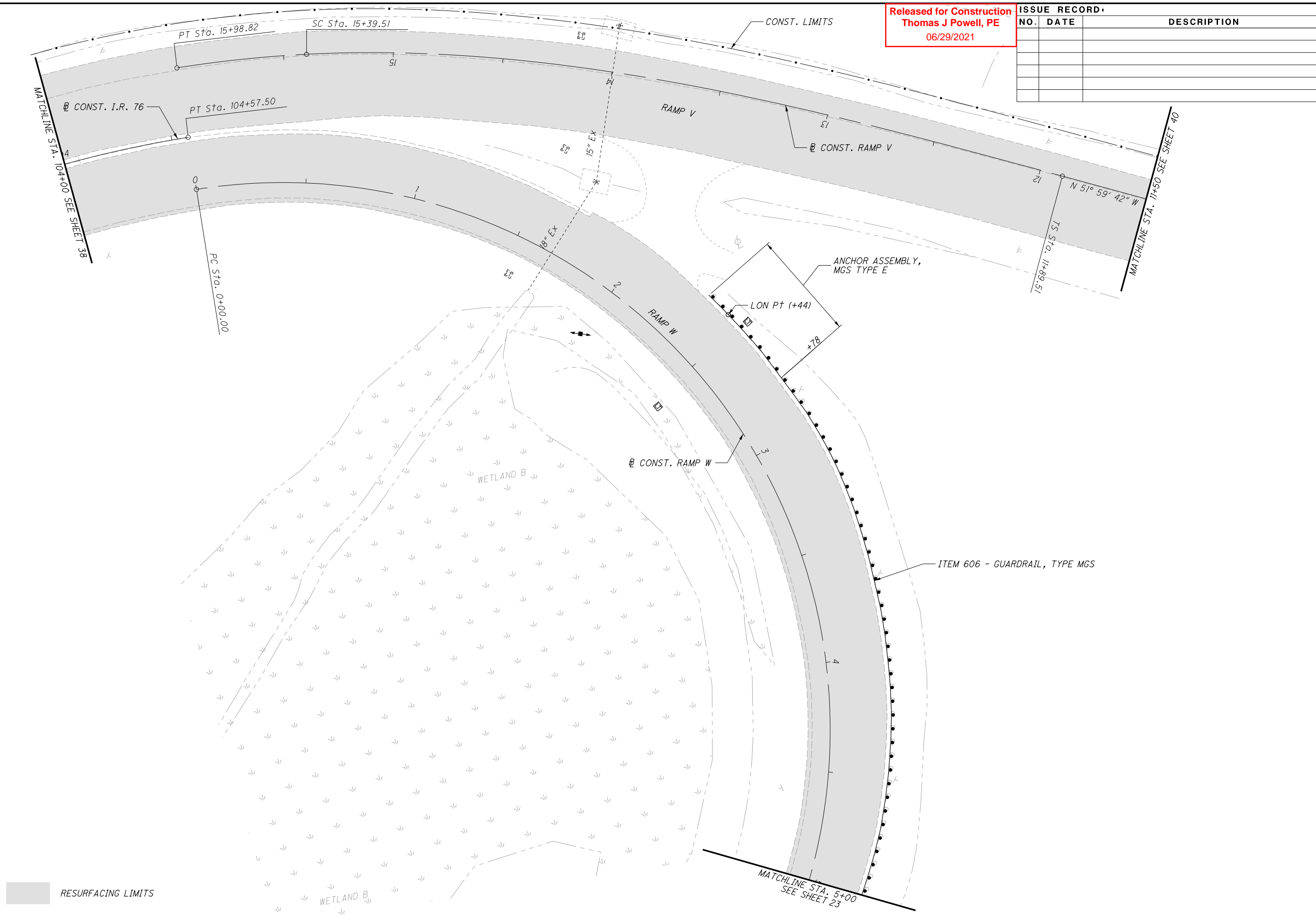
SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
GLW
CHECKED
JFM

0 20 40
HORIZONTAL
SCALE IN FEET



PLAN - RAMP V & RAMP W
RESURFACING LIMITS

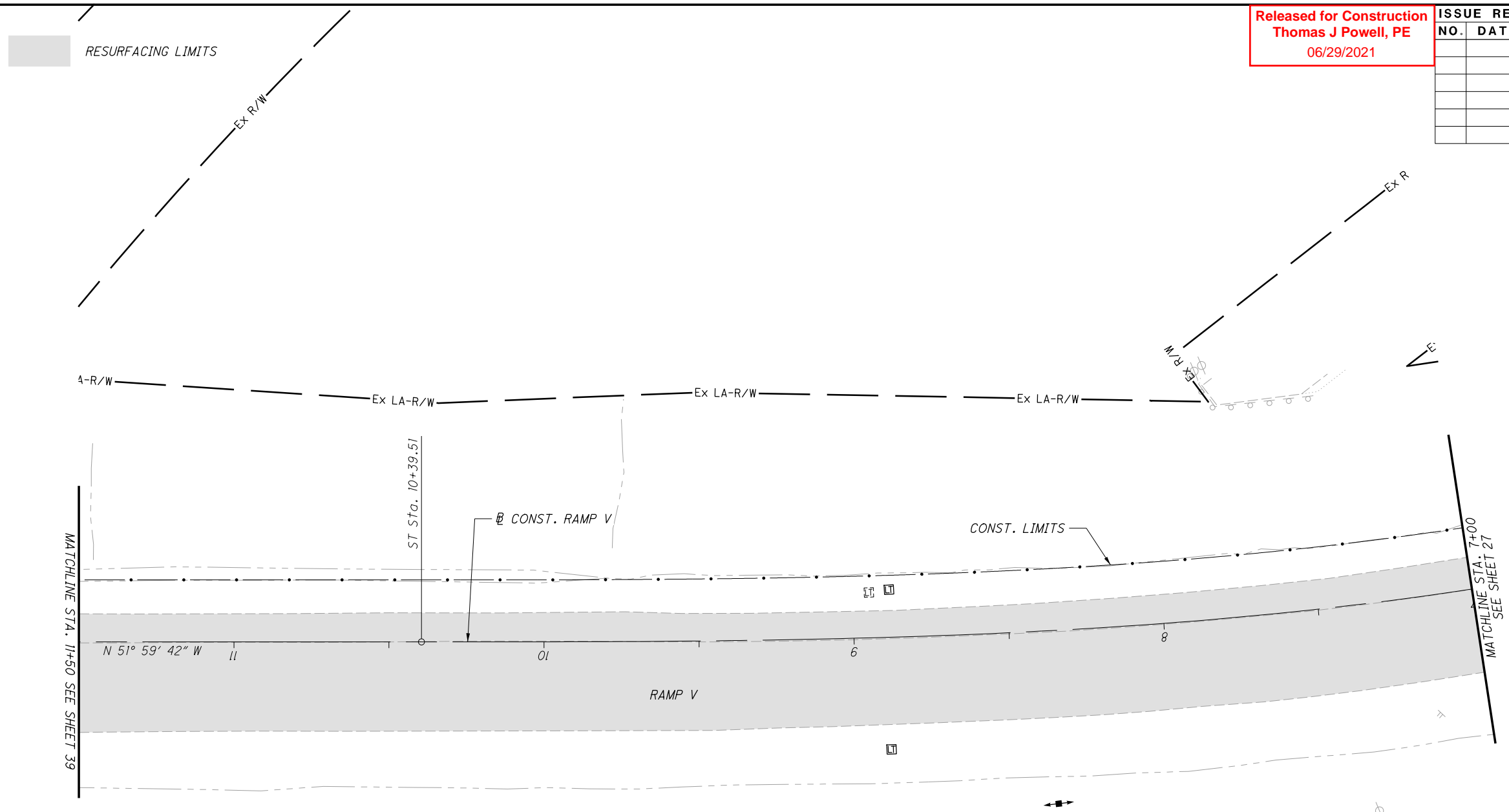
SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
GLW
CHECKED
JFM

0 20 40
HORIZONTAL
SCALE IN FEET



PLAN - RAMP V
RESURFACING LIMITS

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

40
83

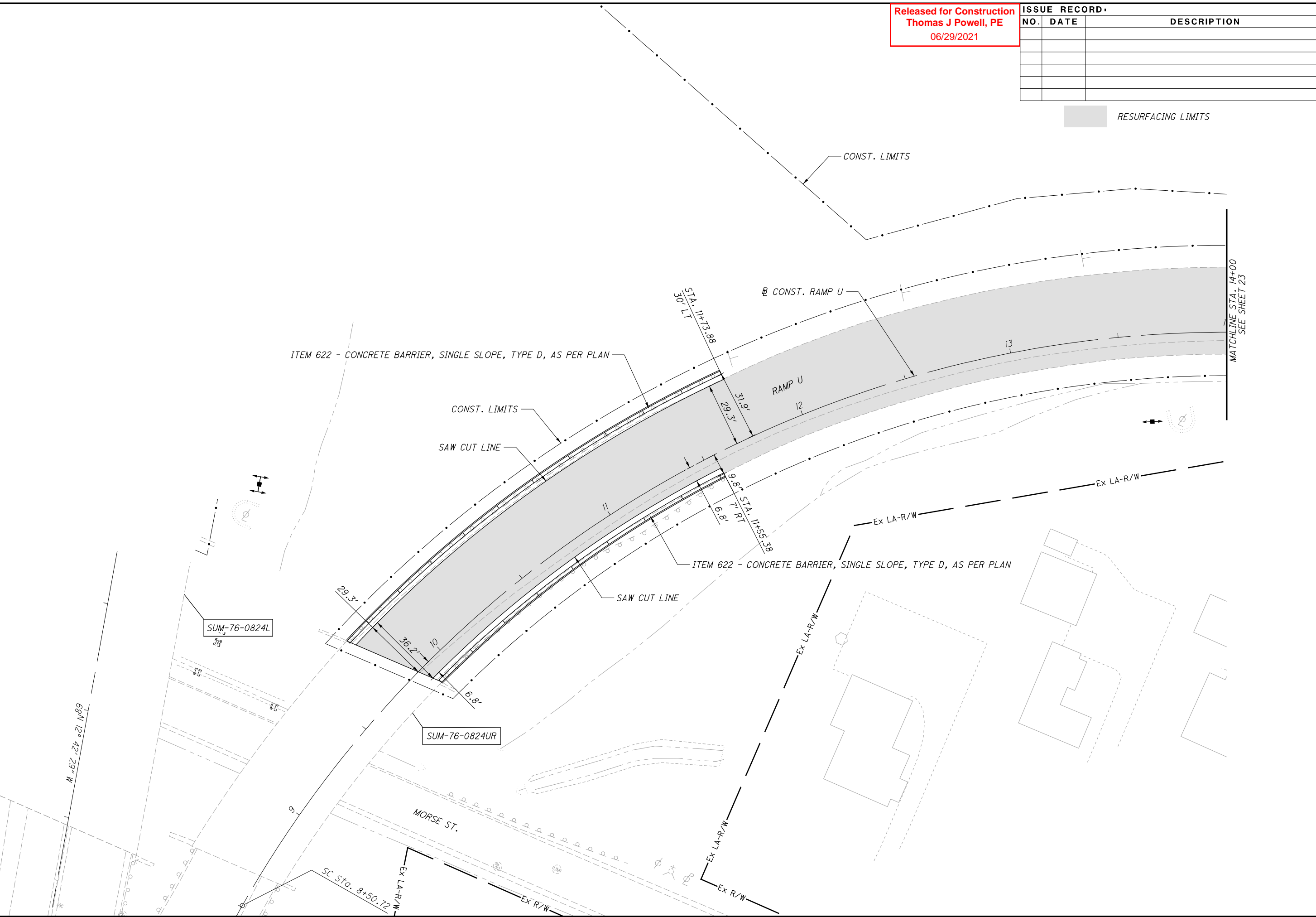
Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
GLW
CHECKED
JFM

0 20 40
10
HORIZONTAL
SCALE IN FEET

RESURFACING LIMITS



PLAN - RAMP U
RESURFACING LIMITS

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

41
83

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SEEDING
END SO.
WIDTH YDS.

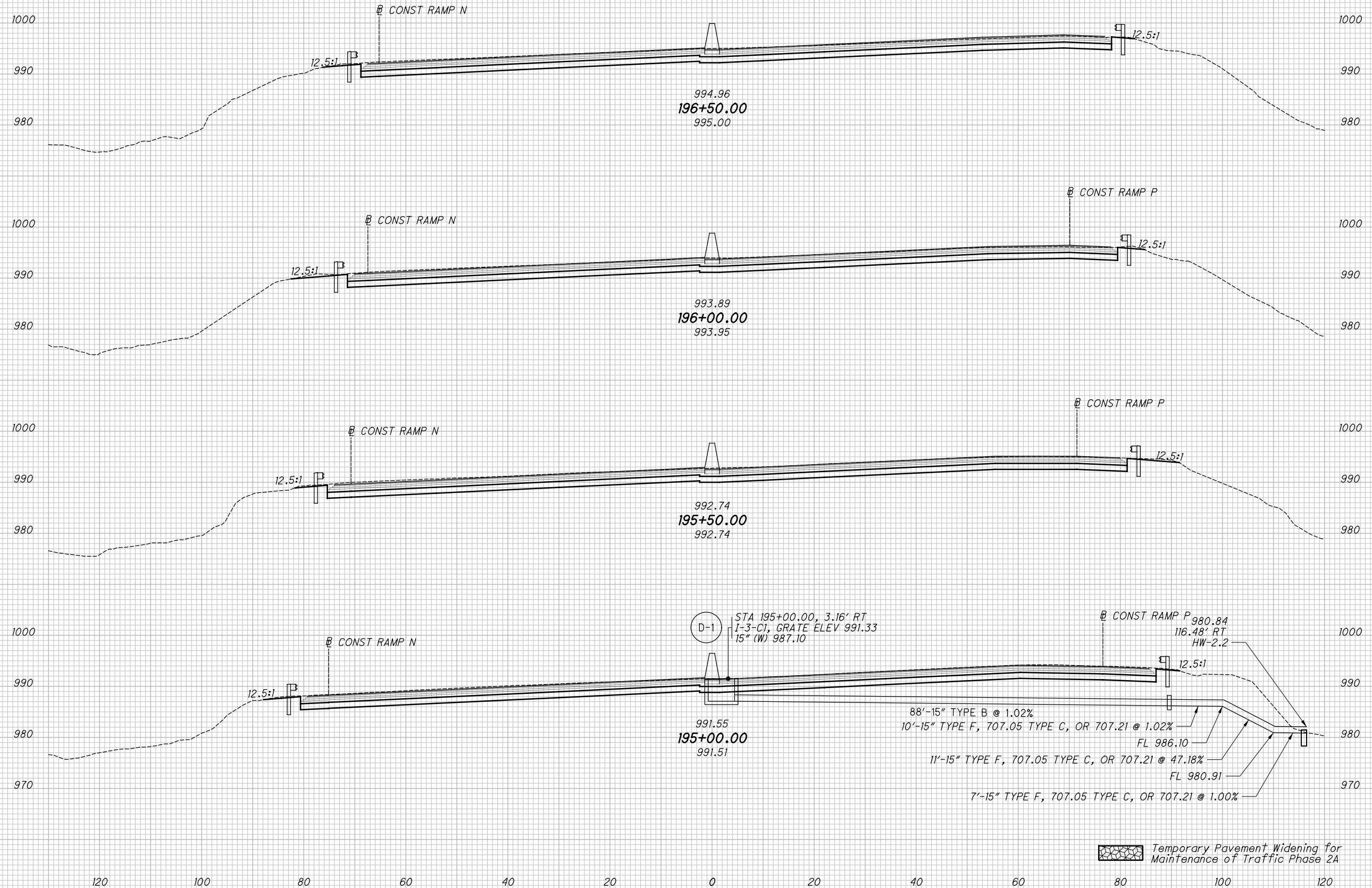
ISSUE NO.	DESCRIPTION
01	Release for Construction
02	As J Powell, PE
03	06/29/2021

END AREA
CUT FILL

VOLUME
CUT FILL

CALCULATED
JDD

CHECKED
JFM



CROSS SECTIONS - I.R. 77
STA. 195+00.00 TO STA. 196+50.00

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

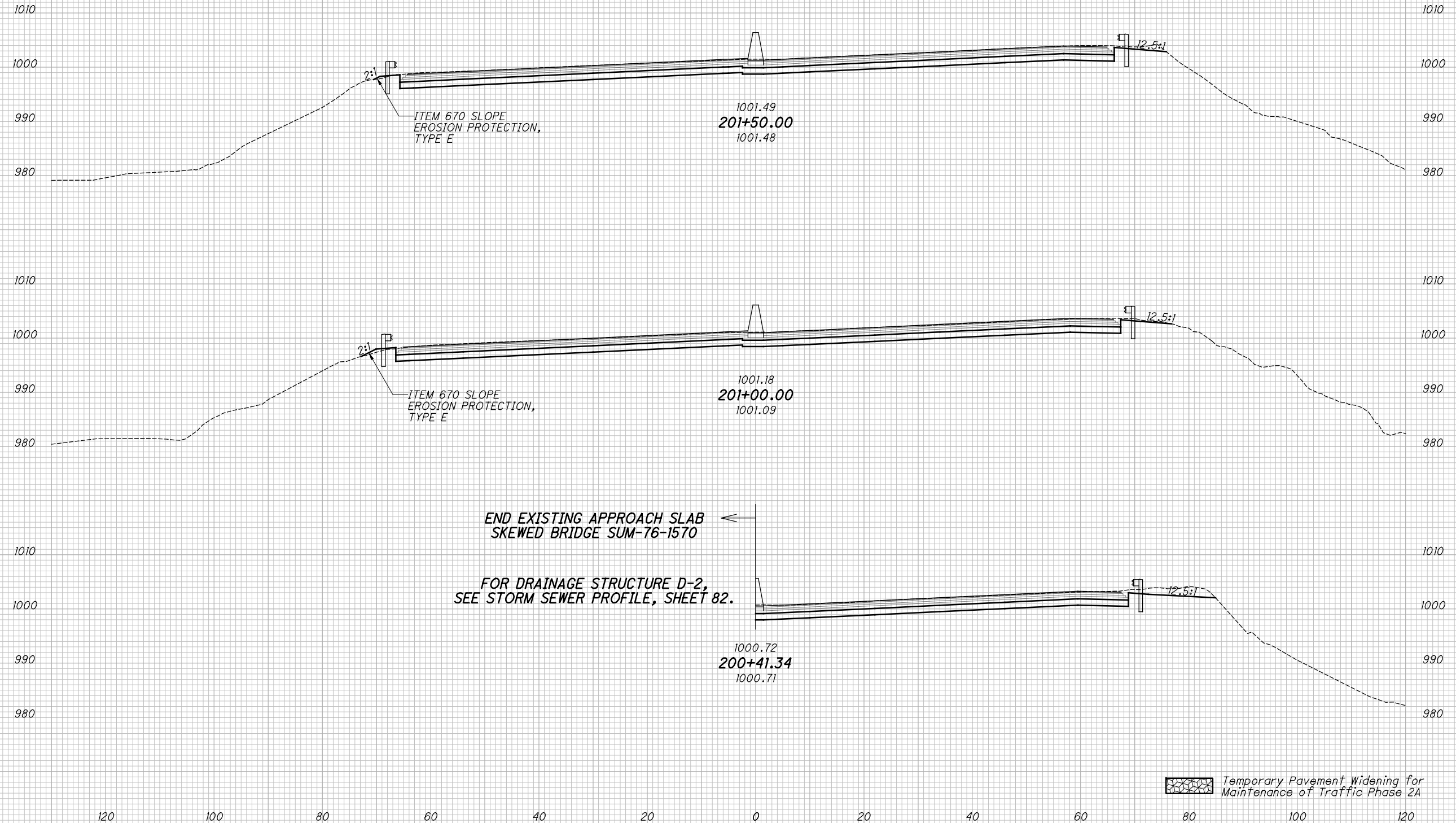
45
83

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SEEDING
END SO.
WIDTH YDS.

ISSUE NO.	DESCRIPTION
01	Release for Construction
02	Tamas J Powell, PE
03	06/29/2021

END AREA		VOLUME		CALCULATED JDD	CHECKED JFM
CUT	FILL	CUT	FILL		



CROSS SECTIONS - I.R. 77
STA. 200+41.34 TO STA. 201+50.00

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

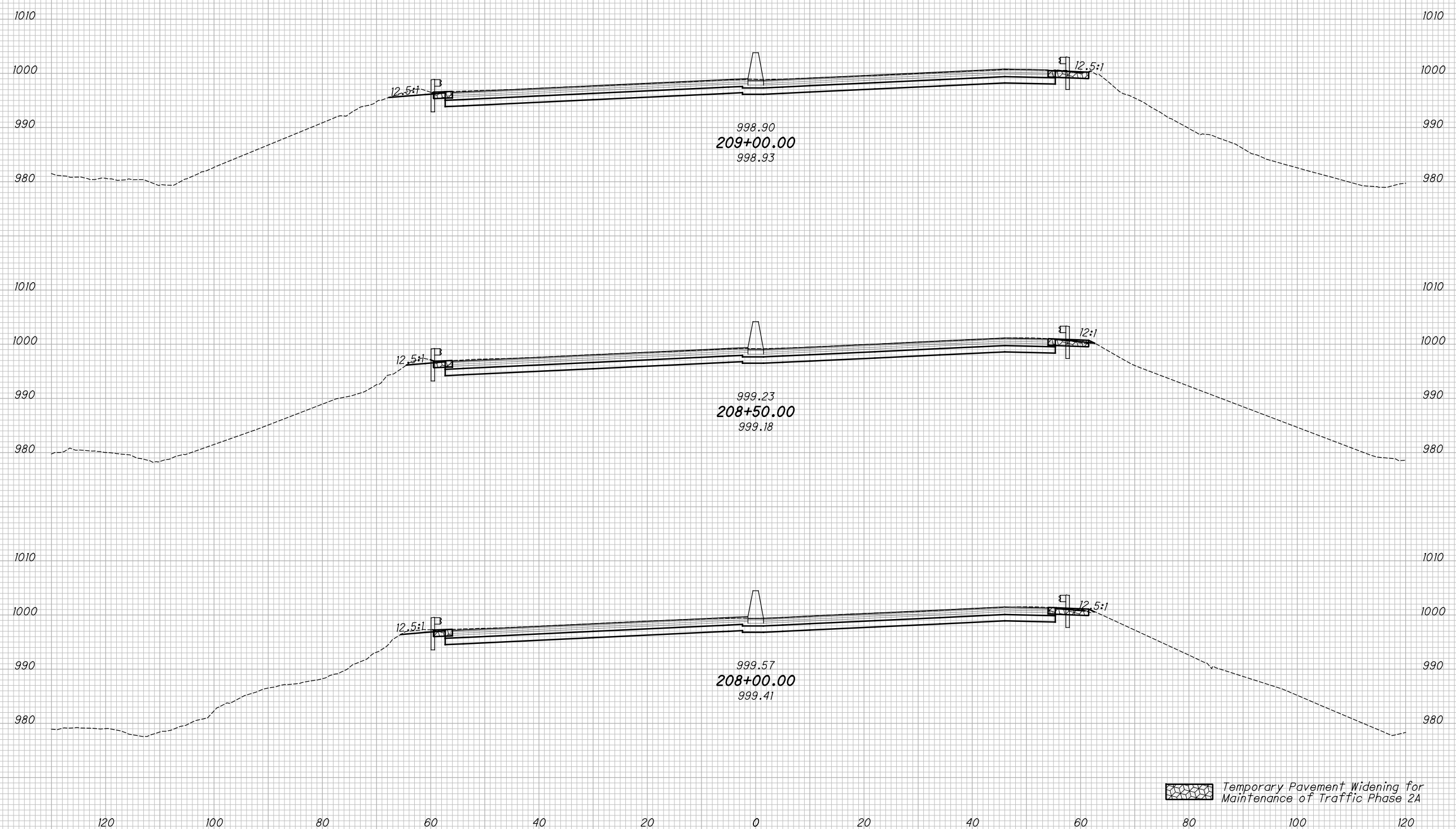
47
83

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SEEDING	
END WIDTH	SO. YDS.

ISSUE NO.	DESCRIPTION
01	Release for Construction
02	Thomas J Powell, PE
03	06/29/2021

END AREA		VOLUME		CALCULATED JDD	CHECKED JFM
CUT	FILL	CUT	FILL		



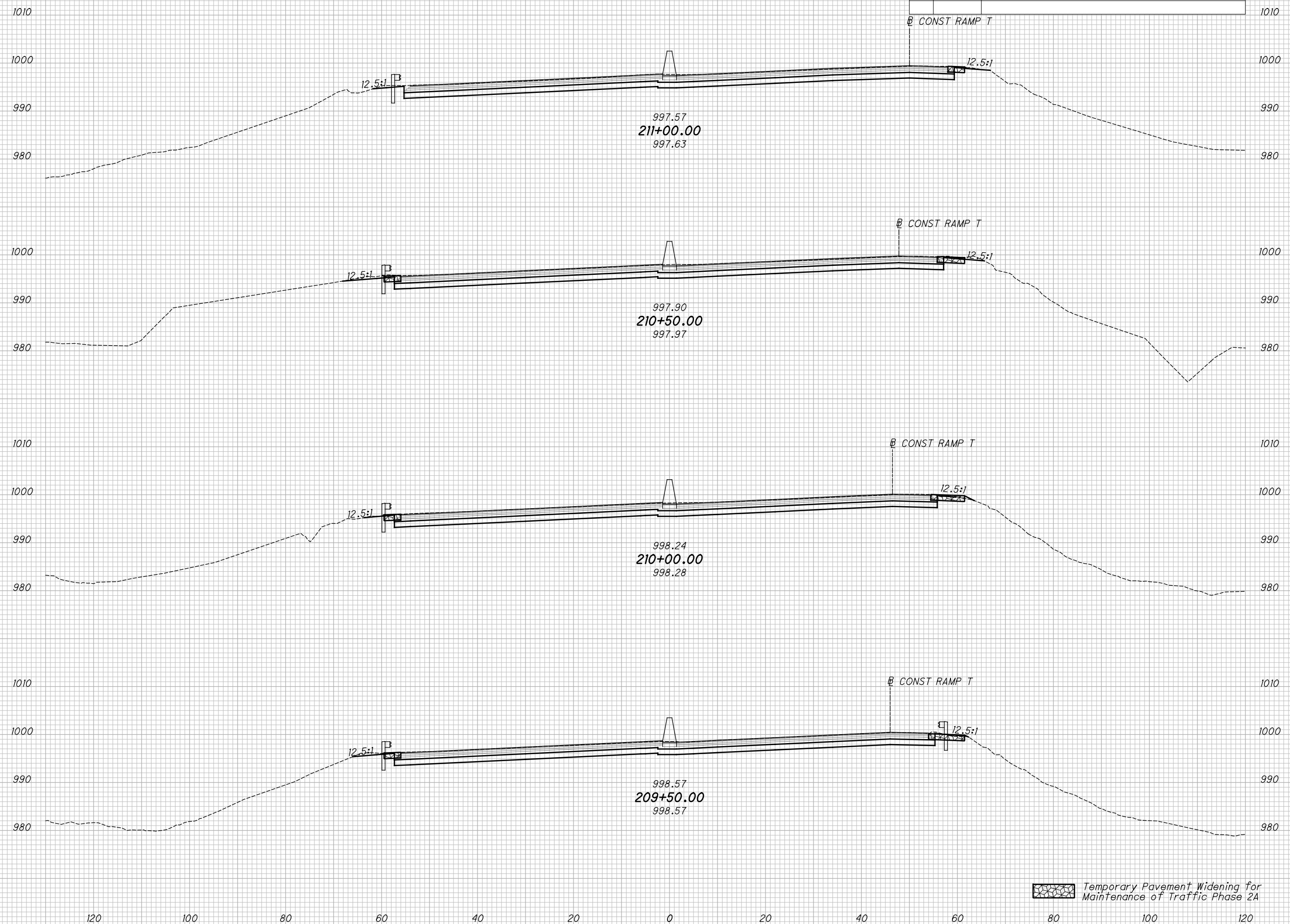
CROSS SECTIONS - I.R. 77
STA. 208+00.00 TO STA. 209+00.00
SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00
 52
 83

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SEEDING	
END WIDTH	SO. YDS.

ISSUE NO.	211+00.00 Construction
DATE	06/29/2021
DESIGNER	Thomas J Powell, PE
DESCRIPTION	

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	JDD	JFM



CROSS SECTIONS - I.R. 77
STA. 209+50.00 TO STA. 211+00.00

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

53
83

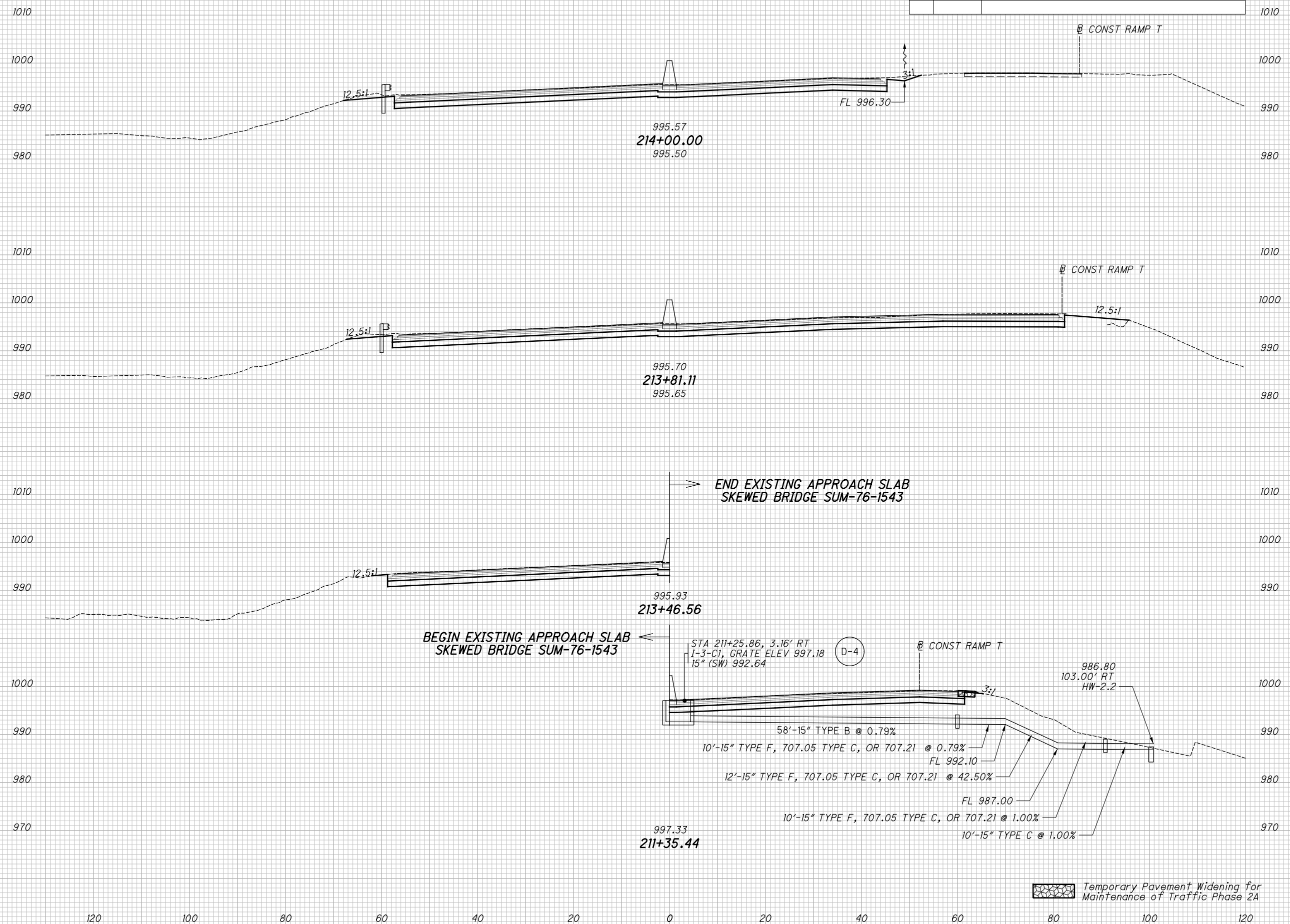
Temporary Pavement Widening for Maintenance of Traffic Phase 2A

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SEEDING	
END WIDTH	SO. YDS.

ISSUE NO.	DESCRIPTION
01	Release for Construction
02	Thomas J Powell, PE
03	06/29/2021

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	JDD	JFM



CROSS SECTIONS - I.R. 77
STA. 211+35.44 TO STA. 214+00.00

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

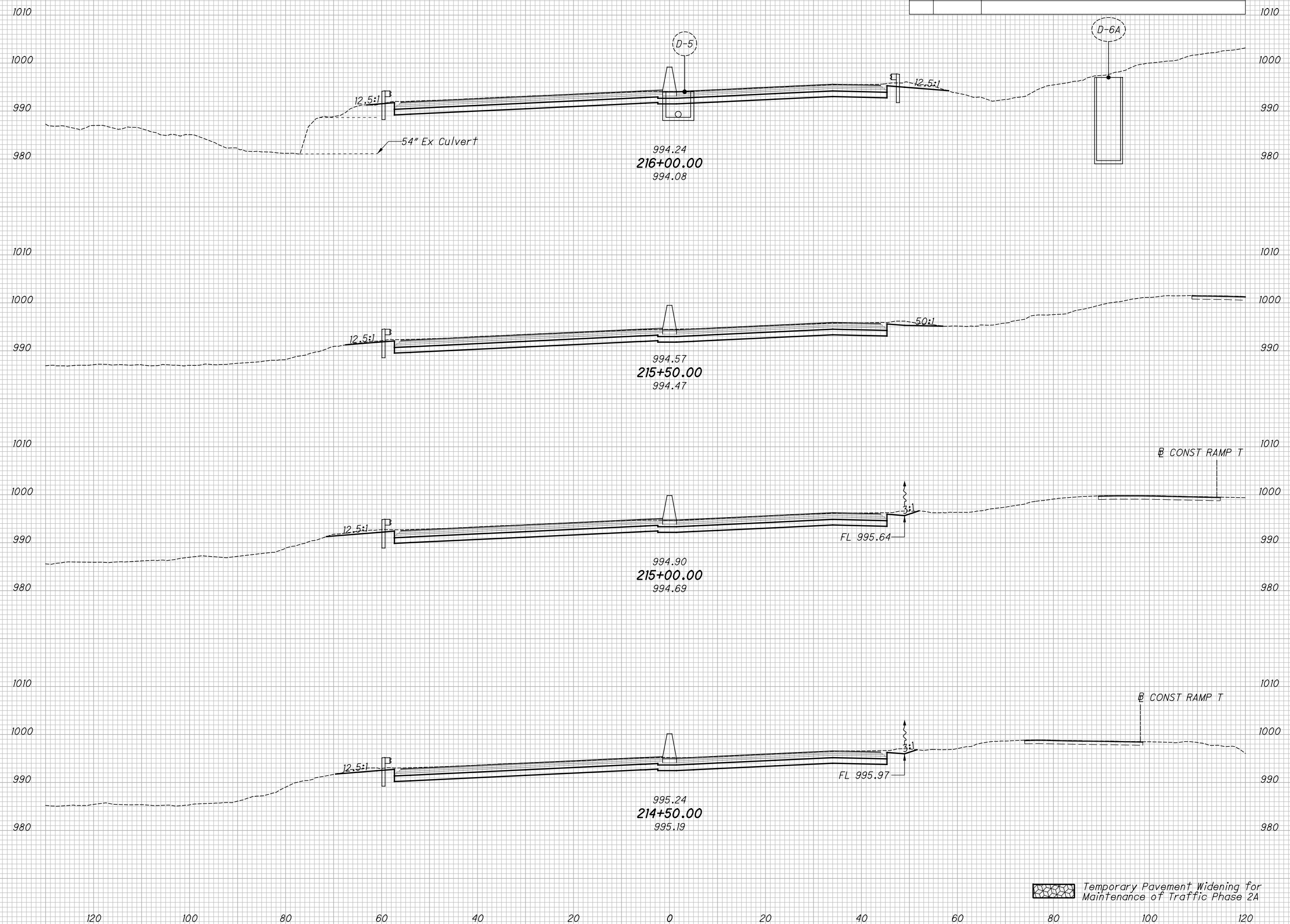
54
83

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SEEDING	
END WIDTH	SO. YDS.

ISSUE NO.	DESCRIPTION
01	Release for Construction
02	Thomas J Powell, PE
03	06/29/2021

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	JDD	JFM



Temporary Pavement Widening for Maintenance of Traffic Phase 2A

CROSS SECTIONS - I.R. 77
STA. 214+50.00 TO STA. 216+00.00

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

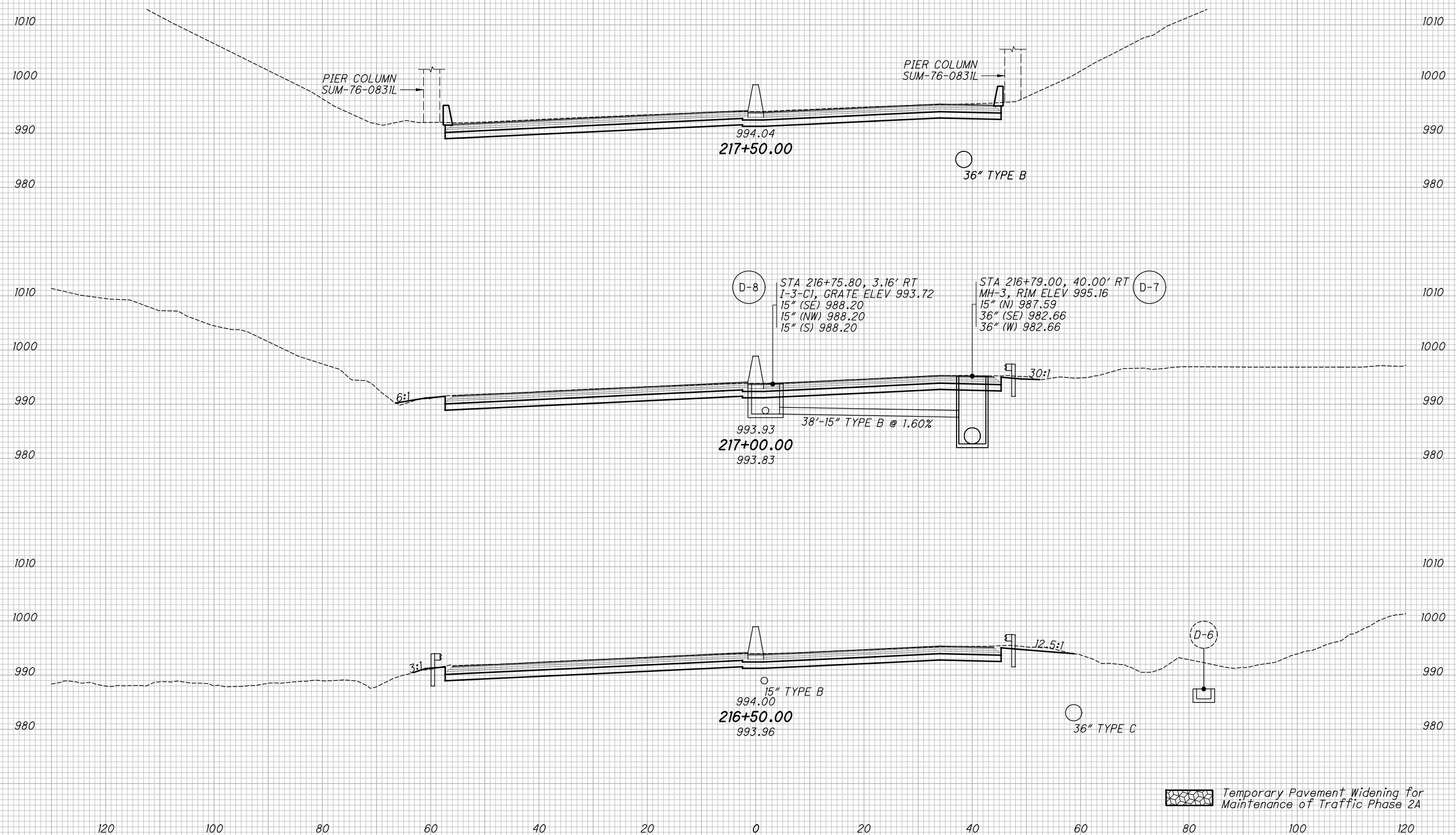
55
83

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SEEDING
END SO.
WIDTH YDS.

ISSUE NO.	DESCRIPTION
01	Release for Construction
02	As J Powell, PE
03	06/29/2021

END AREA		VOLUME		CALCULATED JDD	CHECKED JFM
CUT	FILL	CUT	FILL		



CROSS SECTIONS - I.R. 77
STA. 216+50.00 TO STA. 217+50.00

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

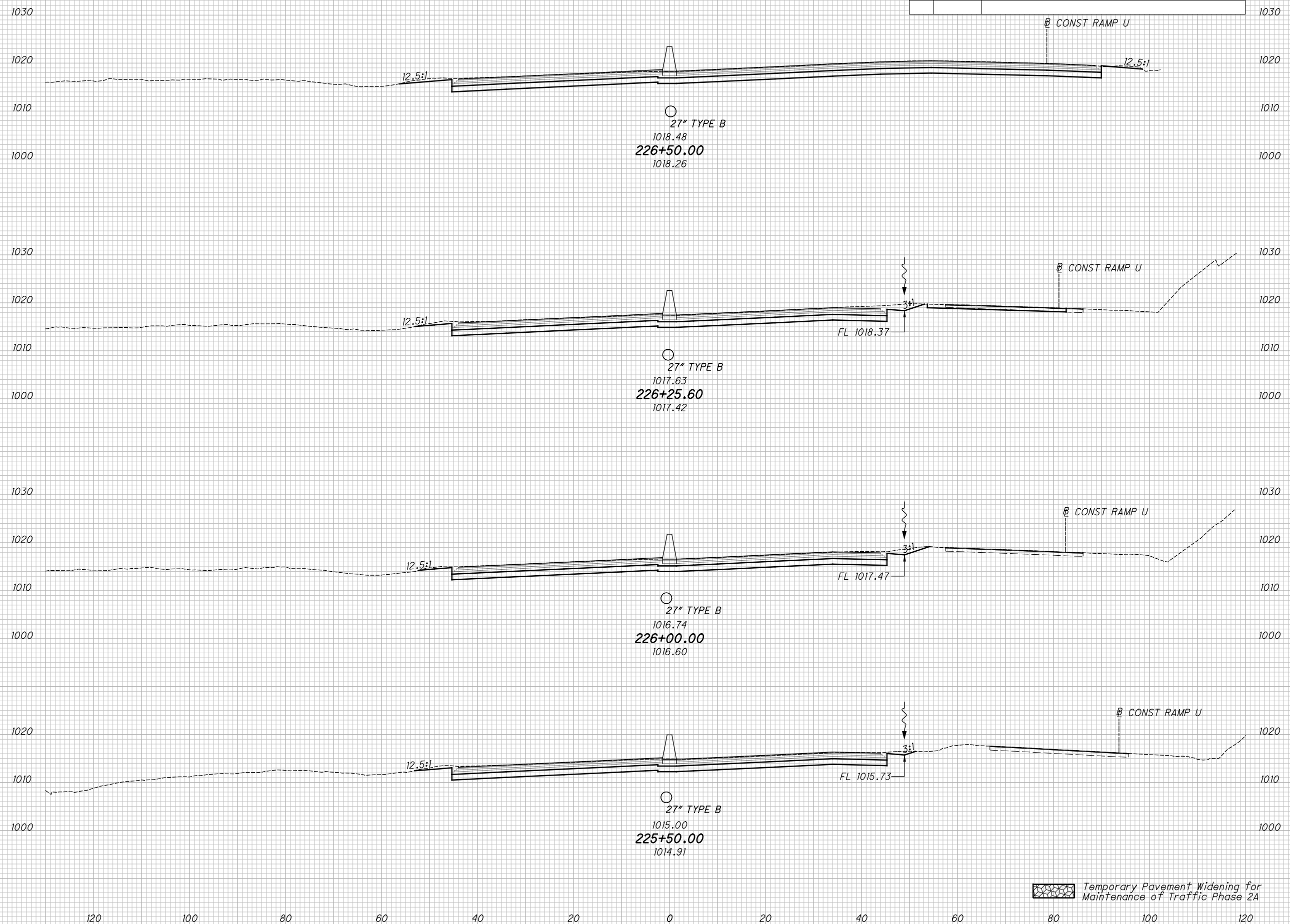
56
83

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SEEDING	
END WIDTH	SO. YDS.

ISSUE NO.	DESCRIPTION
01	Initial Construction
02	As J Powell, PE
03	06/29/2021

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	JDD	JFM



CROSS SECTIONS - I.R. 77
STA. 225+50.00 TO STA. 226+50.00

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

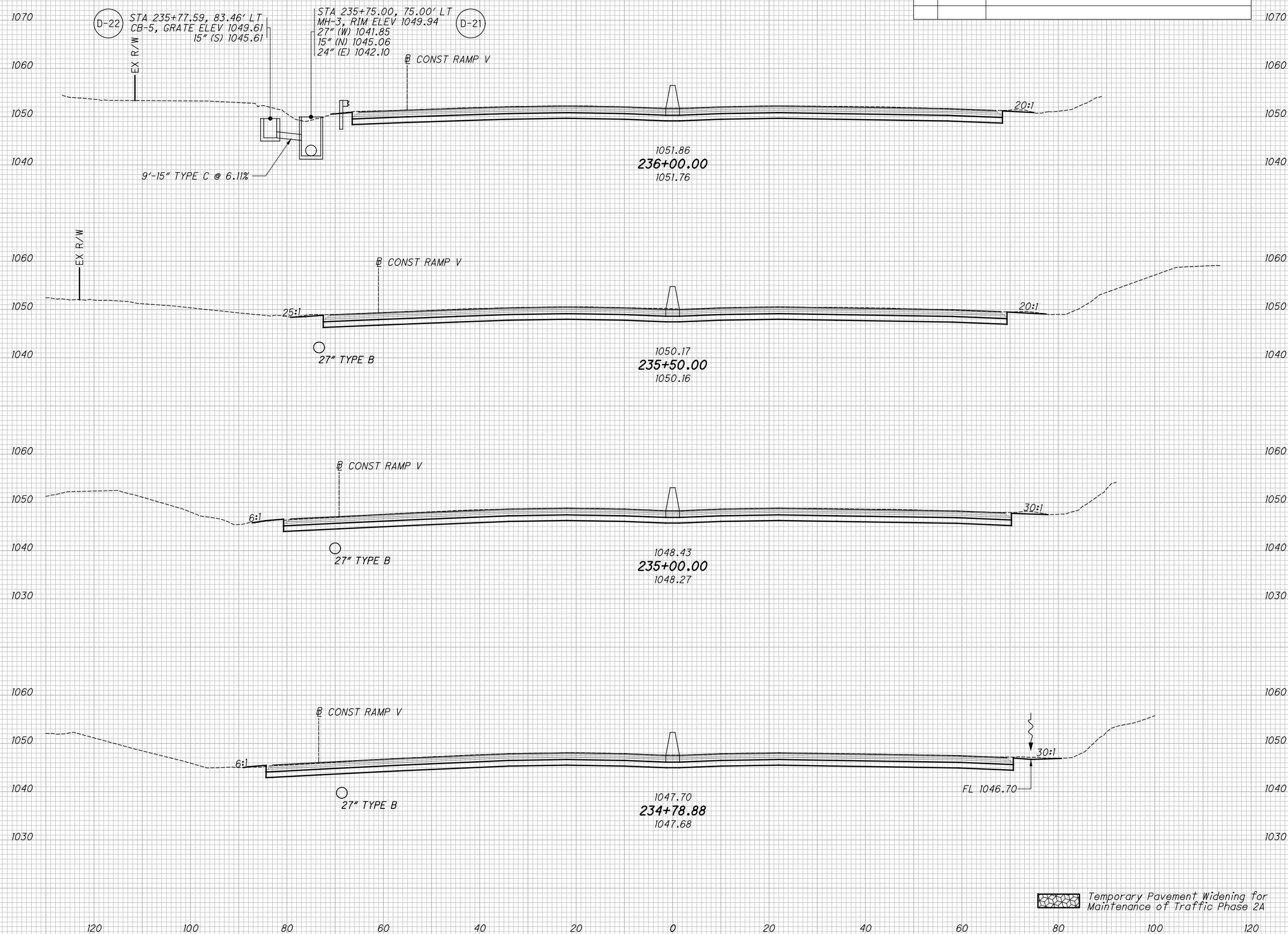
61
83

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SEEDING	
END WIDTH	SO. YDS.

ISSUE NO.	DESCRIPTION
01	Release for Construction
02	Thomas J Powell, PE
03	06/29/2021

END AREA	VOLUME	CALCULATED	CHECKED						
				CUT	FILL	CUT	FILL	JDD	JFM
<p style="text-align: center;">CROSS SECTIONS - I.R. 76</p> <p style="text-align: center;">STA. 234+78.88 TO STA. 236+00.00</p>				<p style="text-align: center;">SUM-76 / 77 / 8-</p> <p style="text-align: center;">8.24 / 9.74 / 0.00</p>					
<p style="text-align: center;">(66 / 83)</p>									

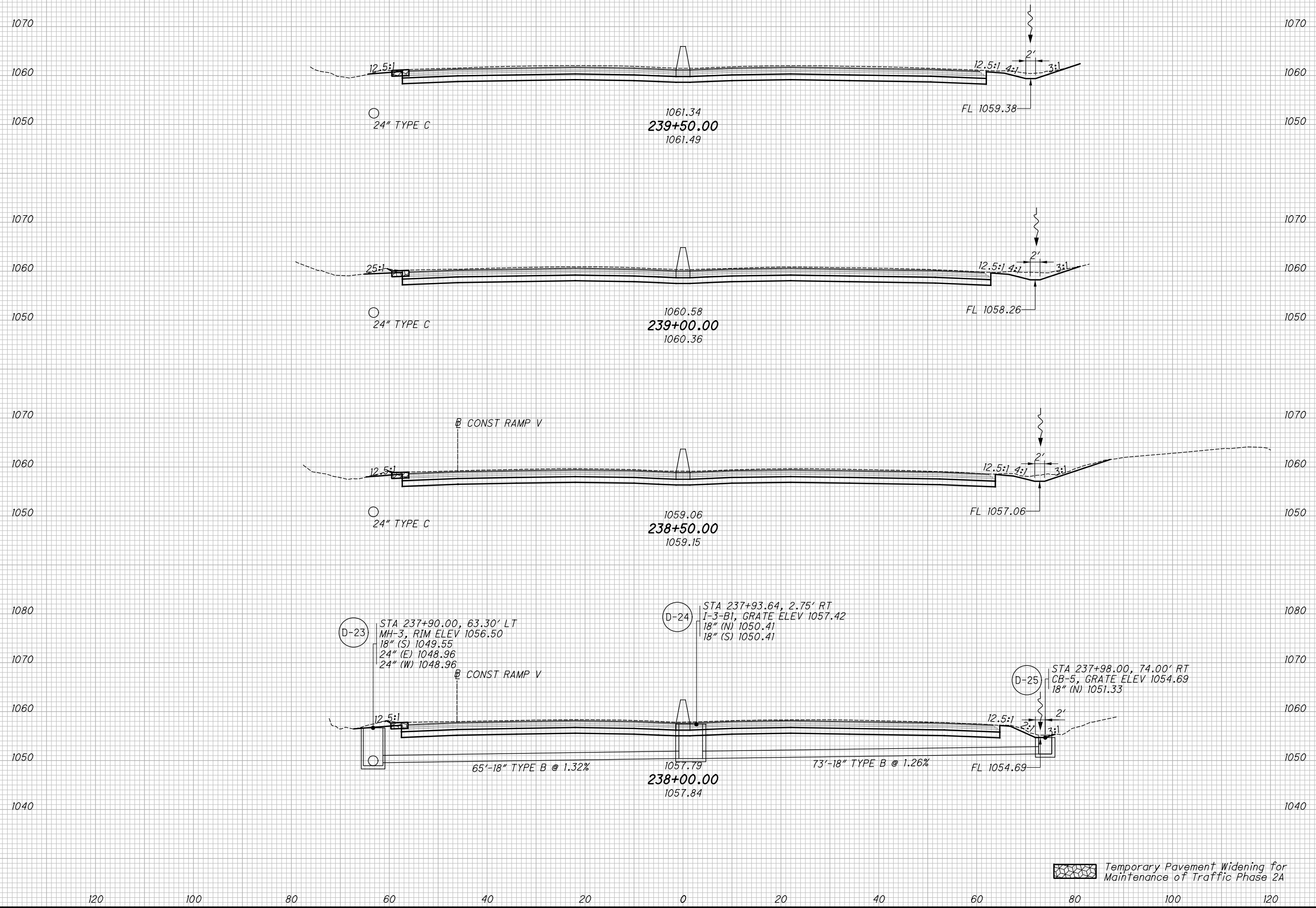


pw:\VA\VAIP\WINTO\parsons.com\Ohio State\Documents\08-Akron Beltway Rehab\0 - Design\02329\Roadway\Sheets\BU-31_X5001.dgn-6/25/2021-2:4:04 PM-p00382B

SEEDING
END SO.
WIDTH YDS.

ISSUE NO.	DESCRIPTION
01	Release for Construction
02	Thomas J Powell, PE
03	06/29/2021

END AREA	VOLUME	CALCULATED	CHECKED						
				CUT	FILL	CUT	FILL	JDD	JFM



Temporary Pavement Widening for Maintenance of Traffic Phase 2A

CROSS SECTIONS - I.R. 76
STA. 238+00.00 TO STA. 239+50.00

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

68
83

CURVE 1 - I.R. 76/77 SUPERELEVATION TABLE (WB/NB)

P. I. Station 212+28.23

Dc = 2°00'00"

Released for Construction
 Thomas J Powell, PE
 06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

REMARKS	LEFT OUTSIDE EDGE OF TRAVEL WAY					LEFT CROWN					LEFT INSIDE EDGE OF TRAVEL WAY					CENTERLINE CONTROL	
	ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE (5' LT)
CS/FS	1024.42	256:1	-0.56	-0.0470	12.00	1024.99	437:1	-0.56	-0.0470	12.00	1025.55	1486:1	-0.23	-0.0470	5.00	228+50.18	1025.79
	1025.45	256:1	-0.52	-0.0437	12.00	1025.97	437:1	-0.52	-0.0437	12.00	1026.50	1486:1	-0.22	-0.0437	5.00	228+75.00	1026.71
	1026.48	256:1	-0.48	-0.0403	12.00	1026.96	437:1	-0.48	-0.0403	12.00	1027.45	1486:1	-0.20	-0.0403	5.00	229+00.00	1027.65
	1026.98	256:1	-0.46	-0.0386	12.00	1027.44	437:1	-0.46	-0.0386	12.00	1027.90	1486:1	-0.19	-0.0386	5.00	229+12.90	1028.10
	1027.45	256:1	-0.44	-0.0369	12.00	1027.89	437:1	-0.44	-0.0369	12.00	1028.33	1486:1	-0.18	-0.0369	5.00	229+25.00	1028.52
	1028.41	256:1	-0.40	-0.0336	12.00	1028.81	437:1	-0.40	-0.0336	12.00	1029.21	1486:1	-0.17	-0.0336	5.00	229+50.00	1029.38
	1029.37	256:1	-0.36	-0.0302	12.00	1029.73	437:1	-0.36	-0.0302	12.00	1030.10	1486:1	-0.15	-0.0302	5.00	229+75.00	1030.25
	1030.34	256:1	-0.32	-0.0268	12.00	1030.66	437:1	-0.32	-0.0268	12.00	1030.98	1486:1	-0.13	-0.0268	5.00	230+00.00	1031.11
	1031.30	256:1	-0.28	-0.0235	12.00	1031.58	437:1	-0.28	-0.0235	12.00	1031.86	1486:1	-0.12	-0.0235	5.00	230+25.00	1031.98
	1032.26	256:1	-0.24	-0.0201	12.00	1032.50	437:1	-0.24	-0.0201	12.00	1032.75	1486:1	-0.10	-0.0201	5.00	230+50.00	1032.85
	1033.23	256:1	-0.20	-0.0167	12.00	1033.43	437:1	-0.20	-0.0167	12.00	1033.63	1486:1	-0.08	-0.0167	5.00	230+75.00	1033.71
RC	1033.44		-0.19	-0.0160	12.00	1033.63	256:1	-0.19	-0.0160	12.00	1033.82	87:1	-0.08	-0.0160	5.00	230+80.50	1033.90
	1033.51		-0.19	-0.0160	12.00	1033.70	256:1	-0.19	-0.0156	12.00	1033.89	87:1	-0.08	-0.0156	5.00	230+82.39	1033.97
	1033.84		-0.19	-0.0160	12.00	1034.03	256:1	-0.16	-0.0136	12.00	1034.19	87:1	-0.07	-0.0136	5.00	230+90.86	1034.26
	1034.19		-0.19	-0.0160	12.00	1034.38	256:1	-0.14	-0.0115	12.00	1034.52	87:1	-0.06	-0.0115	5.00	231+00.00	1034.58
	1035.15		-0.19	-0.0160	12.00	1035.35	256:1	-0.07	-0.0058	12.00	1035.42	87:1	-0.03	-0.0058	5.00	231+25.00	1035.44
	1036.12		-0.19	-0.0160	12.00	1036.31	256:1	-0.00	-0.0000	12.00	1036.31	87:1	-0.00	-0.0000	5.00	231+50.00	1036.31
ST/HF	1036.12		-0.19	-0.0160	12.00	1036.32	256:1	0.00	0.0000	12.00	1036.32	87:1	0.00	0.0000	5.00	231+50.18	1036.32
	1037.08		-0.19	-0.0160	12.00	1037.27	256:1	+0.07	+0.0057	12.00	1037.20	87:1	+0.03	+0.0057	5.00	231+75.00	1037.18
	1038.04		-0.19	-0.0160	12.00	1038.24	256:1	+0.14	+0.0114	12.00	1038.10	87:1	+0.06	+0.0114	5.00	232+00.00	1038.04
	1038.41		-0.19	-0.0160	12.00	1038.60	256:1	+0.16	+0.0136	12.00	1038.44	87:1	+0.07	+0.0136	5.00	232+09.50	1038.37
NC	1038.81		-0.19	-0.0160	12.00	1039.00		+0.19	+0.0160	12.00	1038.81	256:1	+0.08	+0.0160	5.00	232+19.86	1038.73
	1039.01		-0.19	-0.0160	12.00	1039.20		+0.19	+0.0160	12.00	1039.01	256:1	+0.10	+0.0200	5.00	232+25.00	1038.91
	1039.97		-0.19	-0.0160	12.00	1040.16		+0.19	+0.0160	12.00	1039.97	256:1	+0.20	+0.0395	5.00	232+50.00	1039.77
	1040.00		-0.19	-0.0160	12.00	1040.19		+0.19	+0.0160	12.00	1040.00		+0.20	+0.0400	5.00	232+50.60	1039.80
	1040.84		-0.19	-0.0160	12.00	1041.03		+0.19	+0.0160	12.00	1040.84		+0.20	+0.0400	5.00	232+75.00	1040.64
	1041.71		-0.19	-0.0160	12.00	1041.90		+0.19	+0.0160	12.00	1041.71		+0.20	+0.0400	5.00	233+00.00	1041.51

CURVE 1 - I.R. 76/77 SUPERELEVATION TABLE (EB/SB)

P. I. Station 212+28.23

Dc = 2°00'00"

Released for Construction
Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CENTERLINE CONTROL		RIGHT INSIDE EDGE OF TRAVEL WAY					RIGHT CROWN					RIGHT OUTSIDE EDGE OF TRAVEL WAY					REMARKS
STATION	PROFILE GRADE (5' RT)	ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	
228+50.18	1025.79	1026.02	1792:1	+0.23	+0.0470	5.00	1026.58	527:1	+0.56	+0.0470	12.00	1027.15	309:1	+0.56	+0.0470	12.00	CS
228+75.00	1026.71	1026.94	1792:1	+0.22	+0.0442	5.00	1027.47	527:1	+0.53	+0.0442	12.00	1028.00	309:1	+0.53	+0.0442	12.00	
229+00.00	1027.65	1027.86	1792:1	+0.21	+0.0414	5.00	1028.35	527:1	+0.50	+0.0414	12.00	1028.85	309:1	+0.50	+0.0414	12.00	
229+12.90	1028.10	1028.30		+0.20	+0.0400	5.00	1028.78	618:1	+0.48	+0.0400	12.00	1029.26	309:1	+0.48	+0.0400	12.00	
229+25.00	1028.52	1028.72		+0.20	+0.0400	5.00	1029.18	618:1	+0.46	+0.0384	12.00	1029.64	309:1	+0.46	+0.0384	12.00	
229+50.00	1029.38	1029.58		+0.20	+0.0400	5.00	1030.00	618:1	+0.42	+0.0350	12.00	1030.42	309:1	+0.42	+0.0350	12.00	
229+75.00	1030.25	1030.45		+0.20	+0.0400	5.00	1030.83	618:1	+0.38	+0.0316	12.00	1031.21	309:1	+0.38	+0.0316	12.00	
230+00.00	1031.11	1031.31		+0.20	+0.0400	5.00	1031.65	618:1	+0.34	+0.0283	12.00	1031.99	309:1	+0.34	+0.0283	12.00	
230+25.00	1031.98	1032.18		+0.20	+0.0400	5.00	1032.48	618:1	+0.30	+0.0249	12.00	1032.78	309:1	+0.30	+0.0249	12.00	
230+50.00	1032.85	1033.05		+0.20	+0.0400	5.00	1033.30	618:1	+0.26	+0.0215	12.00	1033.56	309:1	+0.26	+0.0215	12.00	
230+75.00	1033.71	1033.91		+0.20	+0.0400	5.00	1034.13	618:1	+0.22	+0.0181	12.00	1034.35	309:1	+0.22	+0.0181	12.00	
230+80.50	1033.90	1034.10		+0.20	+0.0400	5.00	1034.31	618:1	+0.21	+0.0174	12.00	1034.52	309:1	+0.21	+0.0174	12.00	
230+82.39	1033.97	1034.17		+0.20	+0.0400	5.00	1034.37	618:1	+0.21	+0.0171	12.00	1034.58	309:1	+0.21	+0.0171	12.00	
230+90.86	1034.26	1034.46		+0.20	+0.0400	5.00	1034.65		+0.19	+0.0160	12.00	1034.85	309:1	+0.19	+0.0160	12.00	RC
231+00.00	1034.58	1034.78		+0.20	+0.0400	5.00	1034.97		+0.19	+0.0160	12.00	1035.13	309:1	+0.16	+0.0135	12.00	
231+25.00	1035.44	1035.64		+0.20	+0.0400	5.00	1035.84		+0.19	+0.0160	12.00	1035.92	309:1	+0.08	+0.0068	12.00	
231+50.00	1036.31	1036.51		+0.20	+0.0400	5.00	1036.70		+0.19	+0.0160	12.00	1036.70	309:1	+0.00	+0.0000	12.00	
231+50.18	1036.32	1036.52		+0.20	+0.0400	5.00	1036.71		+0.19	+0.0160	12.00	1036.71	309:1	0.00	0.0000	12.00	ST/HF
231+75.00	1037.18	1037.38		+0.20	+0.0400	5.00	1037.57		+0.19	+0.0160	12.00	1037.49	309:1	-0.08	-0.0067	12.00	
232+00.00	1038.04	1038.24		+0.20	+0.0400	5.00	1038.43		+0.19	+0.0160	12.00	1038.27	309:1	-0.16	-0.0134	12.00	
232+09.50	1038.37	1038.57		+0.20	+0.0400	5.00	1038.76		+0.19	+0.0160	12.00	1038.57		-0.19	-0.0160	12.00	NC
232+19.86	1038.73	1038.93		+0.20	+0.0400	5.00	1039.12		+0.19	+0.0160	12.00	1038.93		-0.19	-0.0160	12.00	
232+25.00	1038.91	1039.11		+0.20	+0.0400	5.00	1039.30		+0.19	+0.0160	12.00	1039.11		-0.19	-0.0160	12.00	
232+50.00	1039.77	1039.97		+0.20	+0.0400	5.00	1040.17		+0.19	+0.0160	12.00	1039.97		-0.19	-0.0160	12.00	
232+50.60	1039.80	1040.00		+0.20	+0.0400	5.00	1040.19		+0.19	+0.0160	12.00	1040.00		-0.19	-0.0160	12.00	
232+75.00	1040.64	1040.84		+0.20	+0.0400	5.00	1041.03		+0.19	+0.0160	12.00	1040.84		-0.19	-0.0160	12.00	
233+00.00	1041.51	1041.71		+0.20	+0.0400	5.00	1041.90		+0.19	+0.0160	12.00	1041.71		-0.19	-0.0160	12.00	

CURVE 18 - I.R. 76 SUPERELEVATION TABLE (WB)

P. I. Station 252+01.26

Dc = 1°15'03"

Released for Construction
 Thomas J Powell, PE
 06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

REMARKS	LEFT OUTSIDE EDGE OF TRAVEL WAY					LEFT CROWN					LEFT INSIDE EDGE OF TRAVEL WAY					CENTERLINE CONTROL	
	ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE (5' LT)
	1066.17		-0.38	-0.0160	24.00	1066.5505		+0.19	+0.0160	12.00	1066.36		+0.20	+0.0400	5.00	242+50.00	1066.16
	1066.38		-0.38	-0.0160	24.00	1066.7642		+0.19	+0.0160	12.00	1066.57		+0.20	+0.0400	5.00	242+70.14	1066.37
	1066.43		-0.38	-0.0160	24.00	1066.8137		+0.19	+0.0160	12.00	1066.62		+0.20	+0.0400	5.00	242+75.00	1066.42
	1066.67		-0.38	-0.0160	24.00	1067.0555		+0.19	+0.0160	12.00	1066.86		+0.20	+0.0400	5.00	243+00.00	1066.66
	1066.89		-0.38	-0.0160	24.00	1067.2761		+0.19	+0.0160	12.00	1067.08		+0.20	+0.0400	5.00	243+25.00	1066.88
	1067.09		-0.38	-0.0160	24.00	1067.4755		+0.19	+0.0160	12.00	1067.28		+0.20	+0.0400	5.00	243+50.00	1067.08
NC	1067.13		-0.38	-0.0160	24.00	1067.5157	222:1	+0.19	+0.0160	12.00	1067.32		+0.20	+0.0400	5.00	243+55.38	1067.12
	1067.18		-0.38	-0.0160	24.00	1067.5653	222:1	+0.10	+0.0086	12.00	1067.46		+0.20	+0.0400	5.00	243+75.00	1067.26
HF	1067.22		-0.38	-0.0160	24.00	1067.6069	222:1	+0.00	0.0000	12.00	1067.61		+0.20	+0.0400	5.00	243+98.01	1067.41
	1067.23		-0.38	-0.0160	24.00	1067.6096	222:1	-0.01	-0.0007	12.00	1067.62		+0.20	+0.0400	5.00	244+00.00	1067.42
	1067.25		-0.38	-0.0160	24.00	1067.6326	222:1	-0.12	-0.0101	12.00	1067.75		+0.20	+0.0400	5.00	244+25.00	1067.55
RC	1067.25	222:1	-0.38	-0.0160	24.00	1067.6362	666:1	-0.19	-0.0160	12.00	1067.83		+0.20	+0.0400	5.00	244+40.63	1067.63
	1067.25	222:1	-0.41	-0.0172	24.00	1067.6625	666:1	-0.21	-0.0172	12.00	1067.87		+0.20	+0.0400	5.00	244+50.00	1067.67
END BU-31	1067.25	222:1	-0.43	-0.0177	24.00	1067.6738	666:1	-0.21	-0.0177	12.00	1067.89		+0.20	+0.0400	5.00	244+54.39	1067.69
	1067.23	222:1	-0.49	-0.0203	24.00	1067.7181	666:1	-0.24	-0.0203	12.00	1067.96		+0.20	+0.0400	5.00	244+75.00	1067.76
PC	1067.21	222:1	-0.54	-0.0224	24.00	1067.7436	666:1	-0.27	-0.0224	12.00	1068.01		+0.20	+0.0400	5.00	244+91.78	1067.81
	1067.19	222:1	-0.56	-0.0234	24.00	1067.7525	666:1	-0.28	-0.0234	12.00	1068.03		+0.20	+0.0400	5.00	245+00.00	1067.83
	1067.13	222:1	-0.64	-0.0266	24.00	1067.7657	666:1	-0.32	-0.0266	12.00	1068.08		+0.20	+0.0400	5.00	245+25.00	1067.88
	1067.05	222:1	-0.71	-0.0297	24.00	1067.7575	666:1	-0.36	-0.0297	12.00	1068.11		+0.20	+0.0400	5.00	245+50.00	1067.91
	1067.04	222:1	-0.72	-0.0300	24.00	1067.7555	535:1	-0.36	-0.0300	12.00	1068.12	1820:1	+0.20	+0.0400	5.00	245+52.52	1067.92
	1066.97	222:1	-0.76	-0.0318	24.00	1067.7320	535:1	-0.38	-0.0318	12.00	1068.11	1820:1	+0.19	+0.0382	5.00	245+68.50	1067.92
FS	1066.96		-0.77	-0.0320	24.00	1067.7280		-0.38	-0.0320	12.00	1068.11		+0.19	+0.0380	5.00	245+70.72	1067.92

SUPERELEVATION TABLE - I.R. 76 / I.R. 77

SUM-76 / 77 / 8-
 8.24 / 9.74 / 0.00

75
 83

CURVE 18 - I.R. 76 SUPERELEVATION TABLE (EB)

P. I. Station 252+01.26

Dc = 1°15'03"

Released for Construction
 Thomas J Powell, PE
 06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CENTERLINE CONTROL		RIGHT INSIDE EDGE OF TRAVEL WAY					RIGHT CROWN					RIGHT OUTSIDE EDGE OF TRAVEL WAY					REMARKS
STATION	PROFILE GRADE (5' RT)	ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	
242+50.00	1066.16	1066.36		+0.20	+0.0400	5.00	1066.55		+0.19	+0.0160	12.00	1066.17		-0.38	-0.0160	24.00	
242+70.14	1066.37	1066.57		+0.20	+0.0400	5.00	1066.76		+0.19	+0.0160	12.00	1066.38	222:1	-0.38	-0.0160	24.00	NC
242+75.00	1066.42	1066.62		+0.20	+0.0400	5.00	1066.81		+0.19	+0.0160	12.00	1066.45	222:1	-0.36	-0.0151	24.00	
243+00.00	1066.66	1066.86		+0.20	+0.0400	5.00	1067.06		+0.19	+0.0160	12.00	1066.81	222:1	-0.25	-0.0104	24.00	
243+25.00	1066.88	1067.08		+0.20	+0.0400	5.00	1067.28		+0.19	+0.0160	12.00	1067.14	222:1	-0.14	-0.0057	24.00	
243+50.00	1067.08	1067.28		+0.20	+0.0400	5.00	1067.48		+0.19	+0.0160	12.00	1067.45	222:1	-0.02	-0.0010	24.00	
243+55.38	1067.12	1067.32		+0.20	+0.0400	5.00	1067.52		+0.19	+0.0160	12.00	1067.52	222:1	0.00	0.0000	24.00	HF
243+75.00	1067.26	1067.46		+0.20	+0.0400	5.00	1067.65		+0.19	+0.0160	12.00	1067.74	222:1	+0.09	+0.0037	24.00	
243+98.01	1067.41	1067.61		+0.20	+0.0400	5.00	1067.80		+0.19	+0.0160	12.00	1067.99	222:1	+0.19	+0.0080	24.00	
244+00.00	1067.42	1067.62		+0.20	+0.0400	5.00	1067.81		+0.19	+0.0160	12.00	1068.01	222:1	+0.20	+0.0084	24.00	
244+25.00	1067.55	1067.75		+0.20	+0.0400	5.00	1067.95		+0.19	+0.0160	12.00	1068.26	222:1	+0.31	+0.0131	24.00	
244+40.63	1067.63	1067.83		+0.20	+0.0400	5.00	1068.02	666:1	+0.19	+0.0160	12.00	1068.40	222:1	+0.38	+0.0160	24.00	RC
244+50.00	1067.67	1067.87		+0.20	+0.0400	5.00	1068.07	666:1	+0.21	+0.0172	12.00	1068.49	222:1	+0.41	+0.0172	24.00	
244+54.39	1067.69	1067.89		+0.20	+0.0400	5.00	1068.10	666:1	+0.21	+0.0177	12.00	1068.52	222:1	+0.43	+0.0177	24.00	END BU-31
244+75.00	1067.76	1067.96		+0.20	+0.0400	5.00	1068.21	666:1	+0.24	+0.0203	12.00	1068.69	222:1	+0.49	+0.0203	24.00	
244+91.78	1067.81	1068.01		+0.20	+0.0400	5.00	1068.28	666:1	+0.27	+0.0224	12.00	1068.82	222:1	+0.54	+0.0224	24.00	PC
245+00.00	1067.83	1068.03		+0.20	+0.0400	5.00	1068.31	666:1	+0.28	+0.0234	12.00	1068.88	222:1	+0.56	+0.0234	24.00	
245+25.00	1067.88	1068.08		+0.20	+0.0400	5.00	1068.40	666:1	+0.32	+0.0266	12.00	1069.04	222:1	+0.64	+0.0266	24.00	
245+50.00	1067.91	1068.11		+0.20	+0.0400	5.00	1068.47	666:1	+0.36	+0.0297	12.00	1069.18	222:1	+0.71	+0.0297	24.00	
245+52.52	1067.92	1068.12		+0.20	+0.0400	5.00	1068.48	666:1	+0.36	+0.0300	12.00	1069.20	222:1	+0.72	+0.0300	24.00	
245+68.50	1067.92	1068.12		+0.20	+0.0400	5.00	1068.51		+0.38	+0.0320	12.00	1069.27		+0.77	+0.0320	24.00	FS
245+70.72	1067.92	1068.12		+0.20	+0.0400	5.00	1068.51		+0.38	+0.0320	12.00	1069.27		+0.77	+0.0320	24.00	

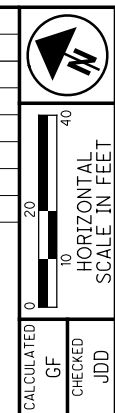
SUPERELEVATION TABLE - I.R. 76

SUM-76 / 77 / 8-
 8.24 / 9.74 / 0.00

76
 83

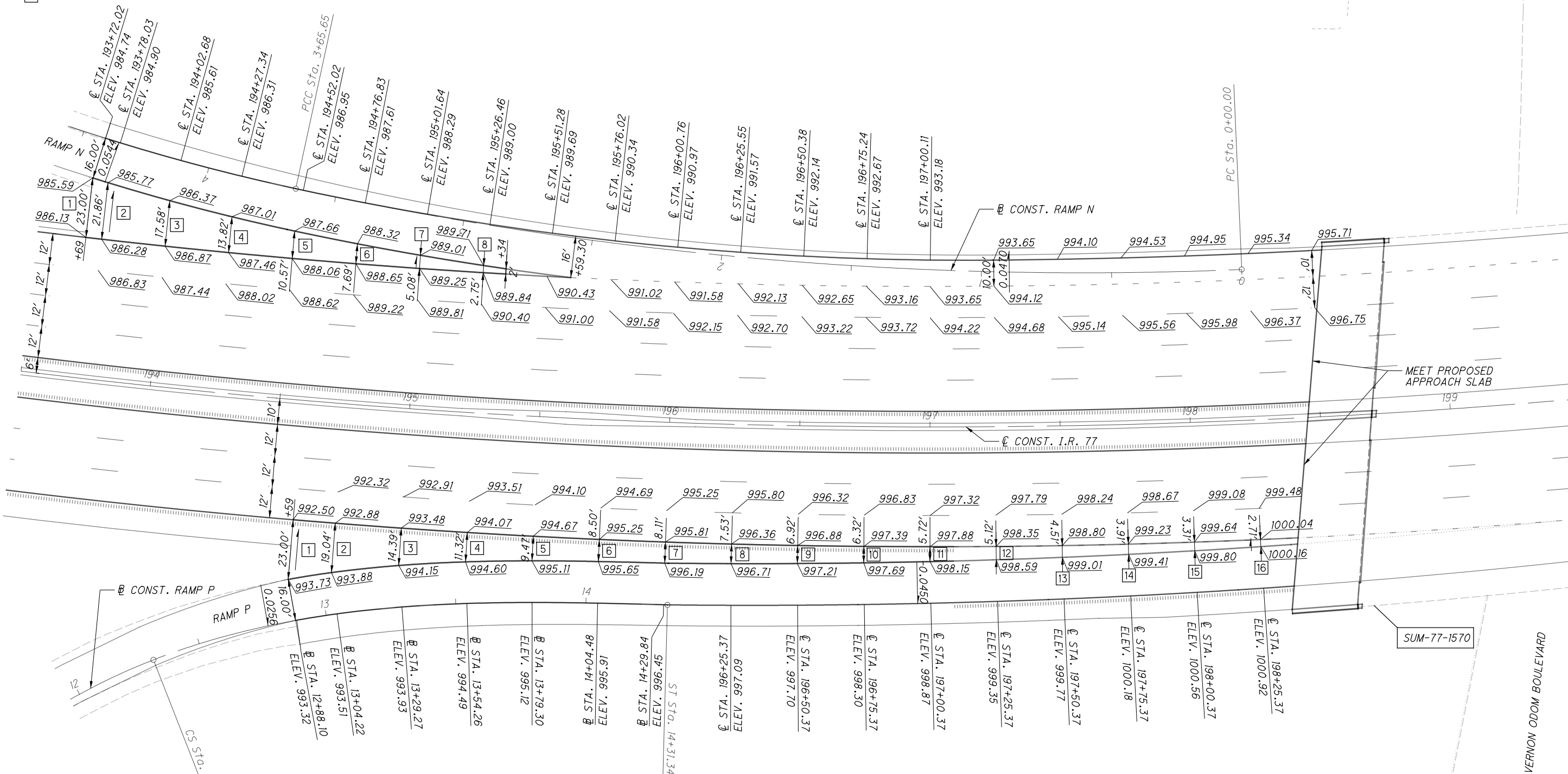
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Thomas J Powell, PE
06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION



GORE SLOPE - RAMP N

1	0.0235
2	0.0233
3	0.0284
4	0.0326
5	0.0378
6	0.0429
7	0.0472
8	0.0473



GORE SLOPE - RAMP P

1	0.0535	9	0.0477
2	0.0525	10	0.0475
3	0.0466	11	0.0472
4	0.0468	12	0.0469
5	0.0465	13	0.0466
6	0.0471	14	0.0460
7	0.0469	15	0.0483
8	0.0465	16	0.0443

RAMP TERMINAL DETAIL
RAMP N & RAMP P AT VERNON ODOM BLVD.

SUM-76 / 77 - 8 / 77 / 4 0.00
8.24 / 9.74 / 0.00

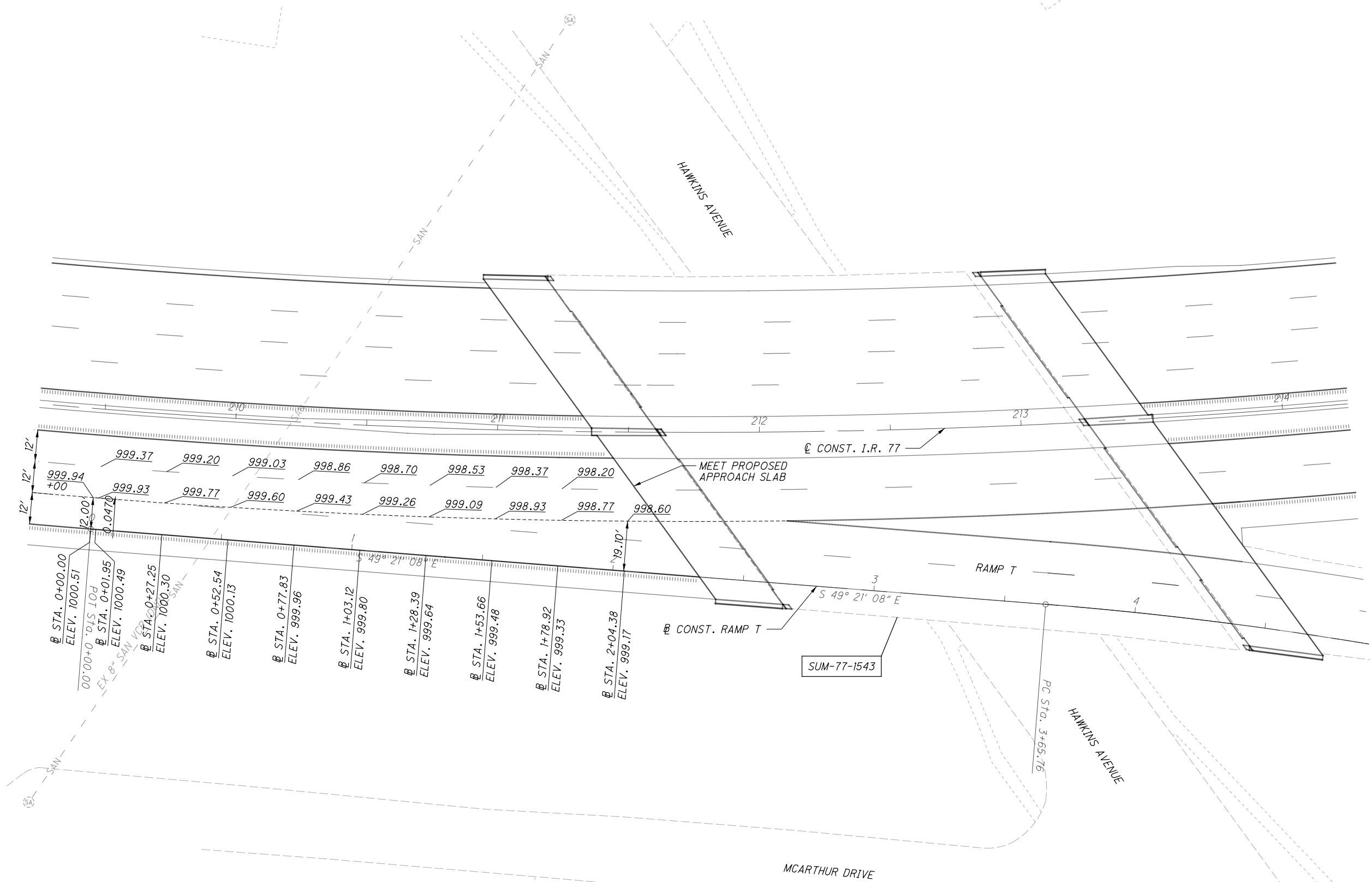
NOTE: ELEVATIONS SHOWN AT 25' INTERVALS UNLESS OTHERWISE NOTED.

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ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
 GF
 CHECKED
 JDD

0 20 40
 HORIZONTAL
 SCALE IN FEET



NOTE: ELEVATIONS SHOWN AT 25' INTERVALS UNLESS OTHERWISE NOTED.

RAMP TERMINAL DETAIL
 RAMP T AT HAWKINS AVENUE

SUM-76 / 77 / 8-
 8.24 / 9.74 / 0.00

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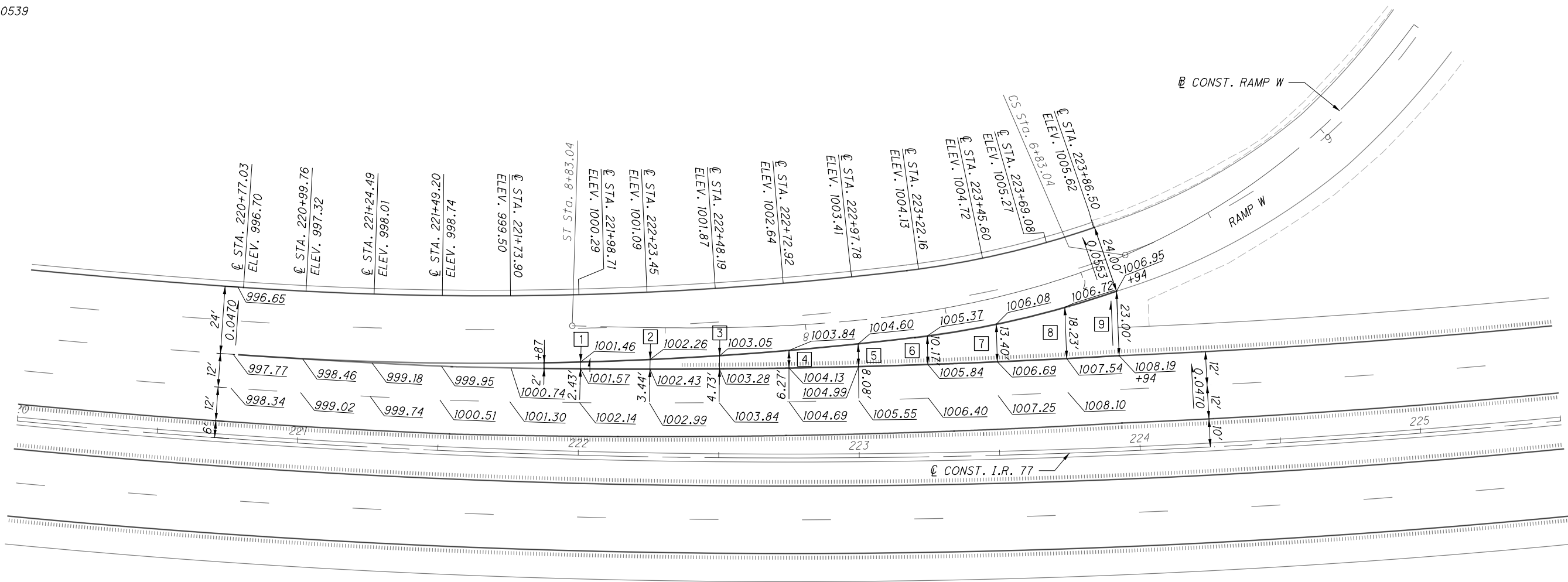
ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED GF
 CHECKED JDD

HORIZONTAL SCALE IN FEET

GORE SLOPE - RAMP W

- 1 0.0453
- 2 0.0494
- 3 0.0486
- 4 0.0463
- 5 0.0483
- 6 0.0462
- 7 0.0455
- 8 0.0450
- 9 0.0539



RAMP TERMINAL DETAIL
 RAMP W AT I.R. 76

SUM-76 / 77 / 8-
 8.24 / 9.74 / 0.00

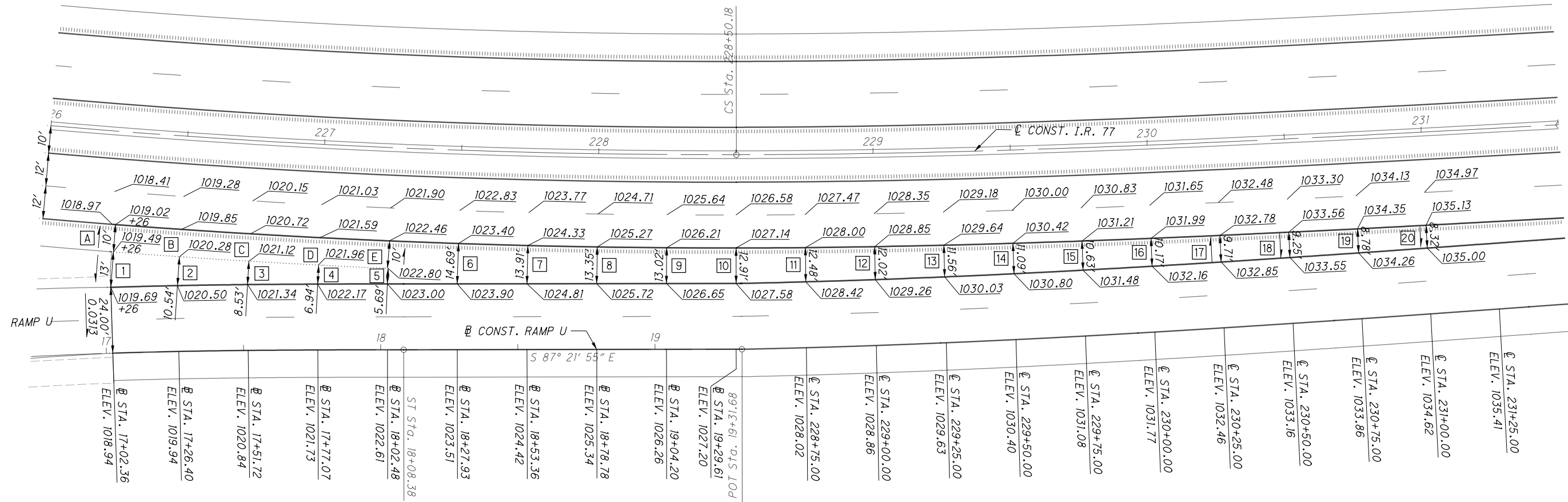
NOTE: ELEVATIONS SHOWN AT 25' INTERVALS UNLESS OTHERWISE NOTED.

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ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED GF
CHECKED JDD

HORIZONTAL SCALE IN FEET



GORE SLOPE - RAMP U

1	0.0154	11	0.0329	A	0.0470
2	0.0209	12	0.0324	B	0.0430
3	0.0258	13	0.0320	C	0.0400
4	0.0303	14	0.0325	D	0.0370
5	0.0351	15	0.0245	E	0.0340
6	0.0340	16	0.0157		
7	0.0345	17	0.0072		
8	0.0337	18	0.0011		
9	0.0338	19	0.0103		
10	0.0341	20	0.0156		

RAMP TERMINAL DETAIL
RAMP U AT I.R. 76

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

80
83

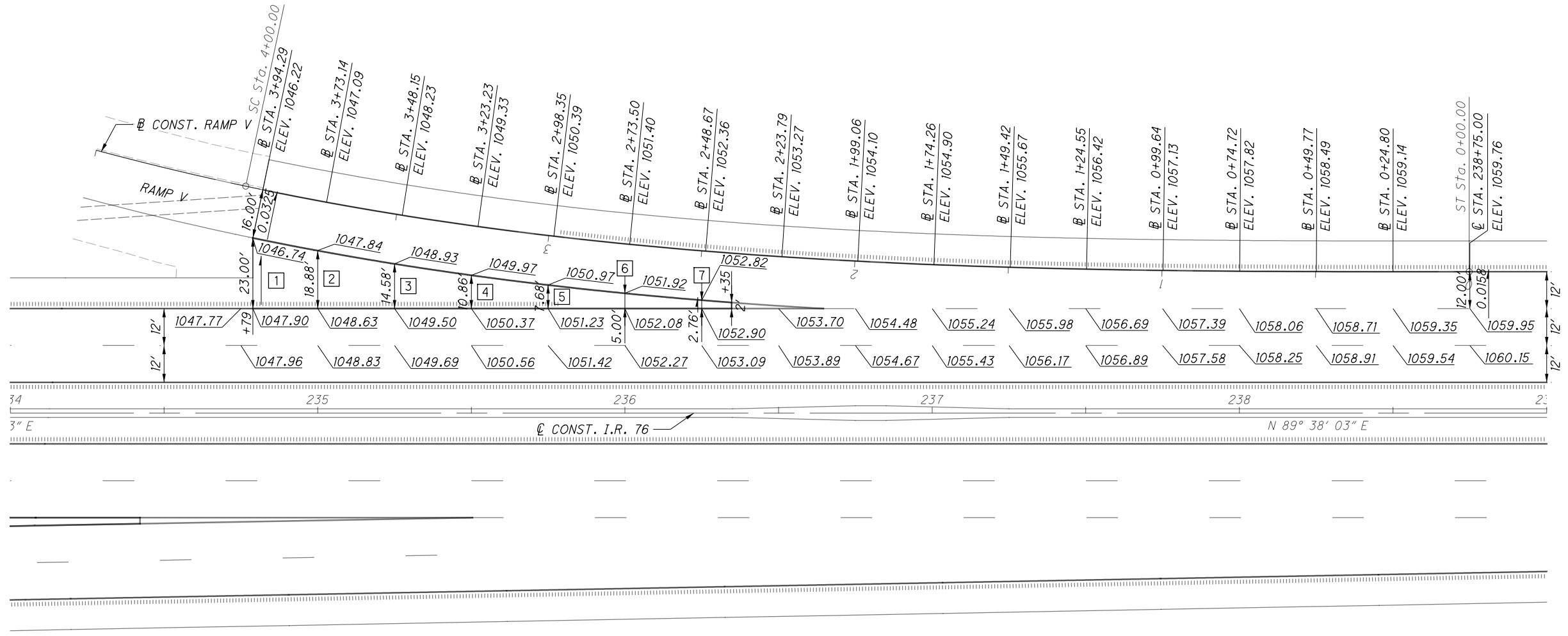
NOTE: ELEVATIONS SHOWN AT 25' INTERVALS UNLESS OTHERWISE NOTED.

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06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED GF
CHECKED JDD

HORIZONTAL SCALE IN FEET



GORE SLOPE - RAMP V

1	0.0439
2	0.0418
3	0.0391
4	0.0368
5	0.0339
6	0.0320
7	0.0290

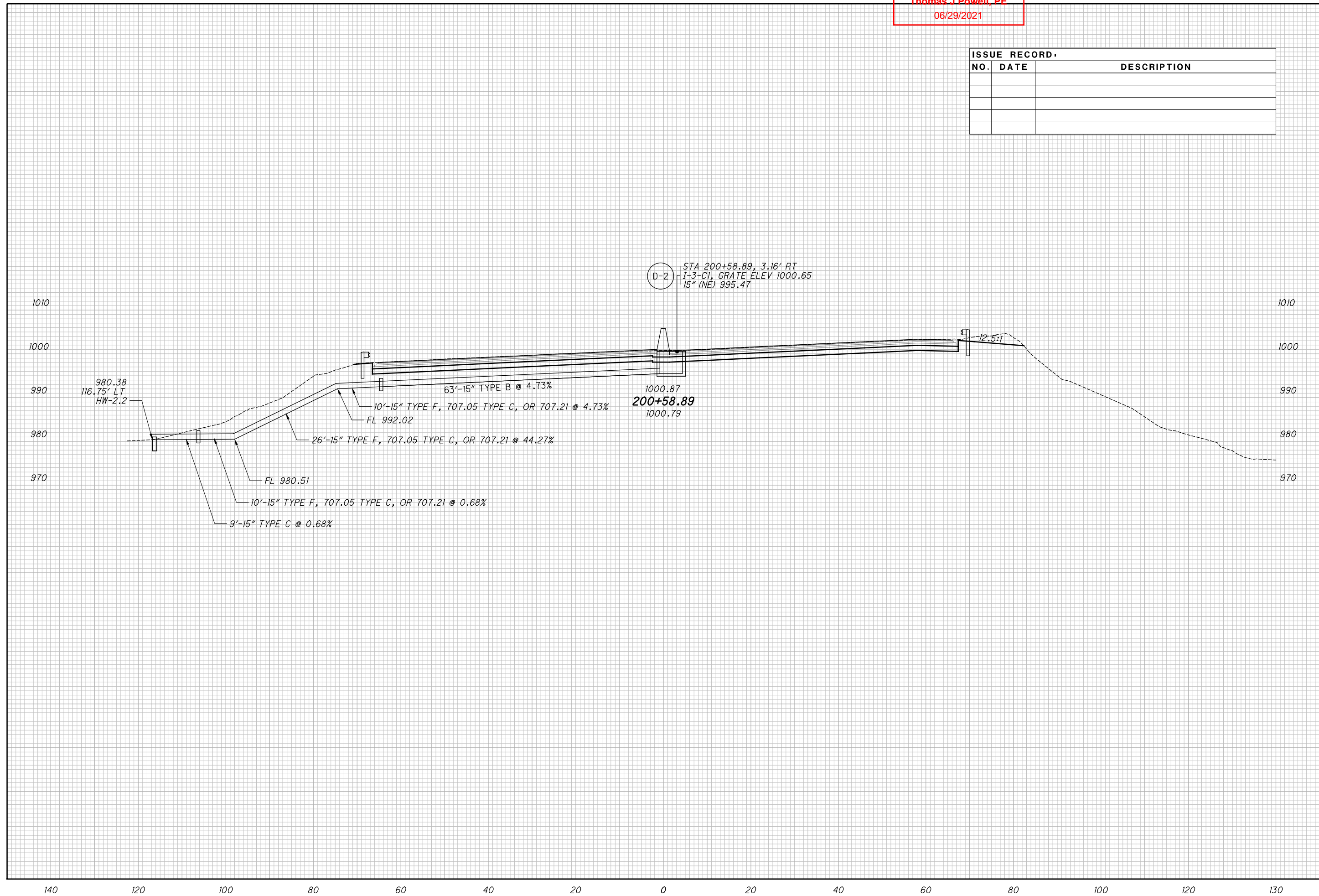
NOTE: ELEVATIONS SHOWN AT 25' INTERVALS UNLESS OTHERWISE NOTED.

RAMP TERMINAL DETAIL
RAMP V AT I.R. 76

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

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ISSUE RECORD		
NO.	DATE	DESCRIPTION



CALCULATED
 JDD
 CHECKED
 MKM

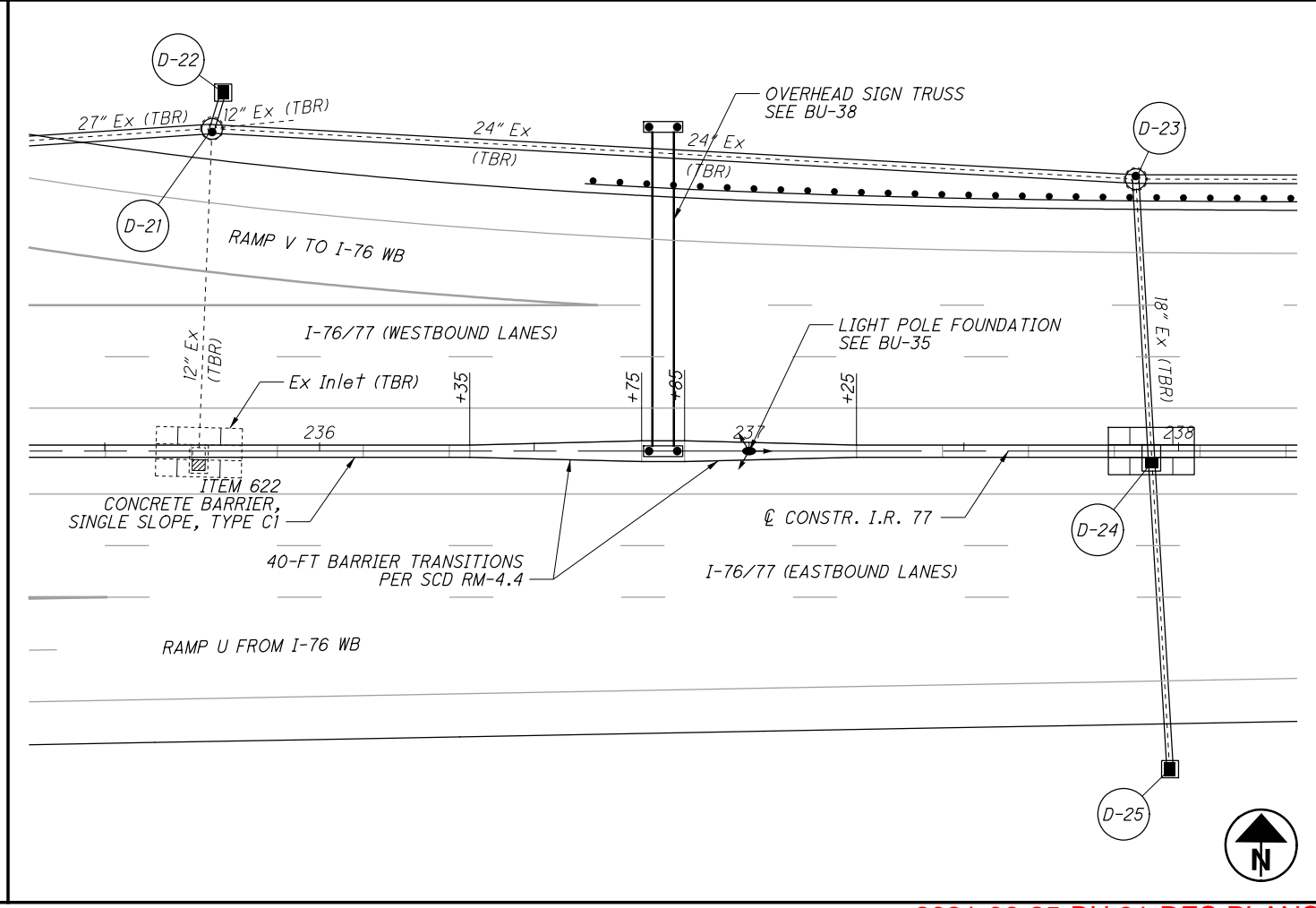
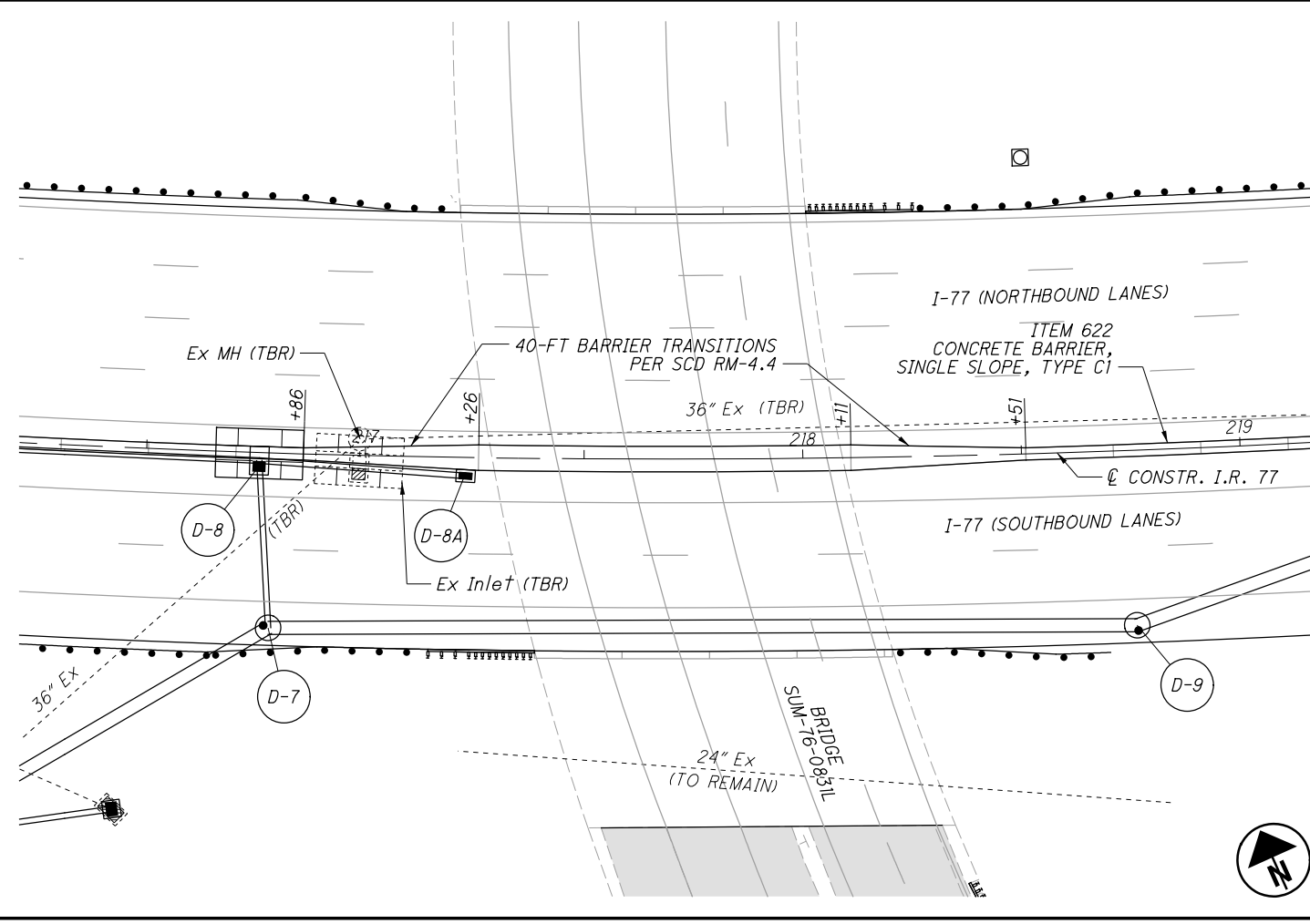
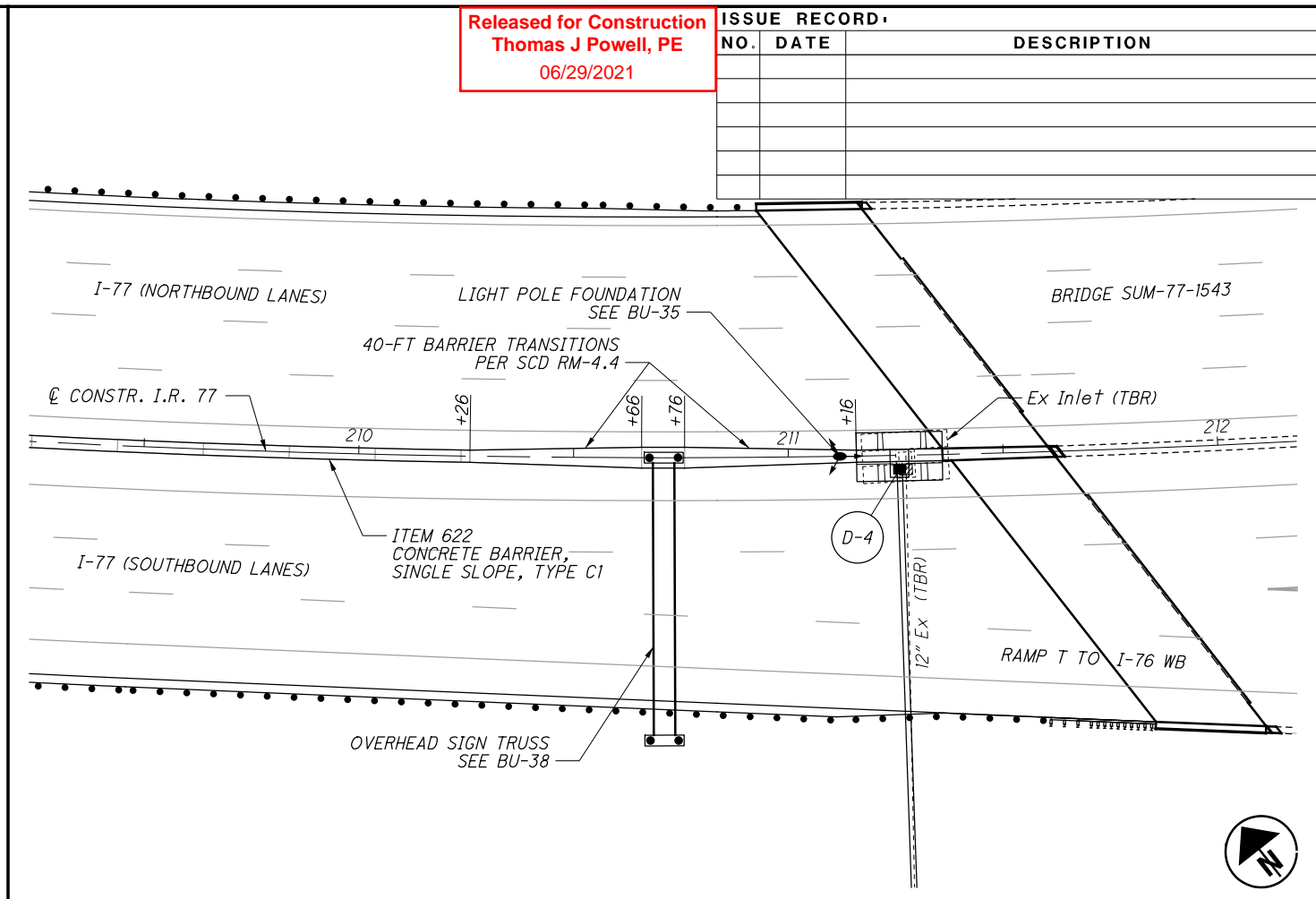
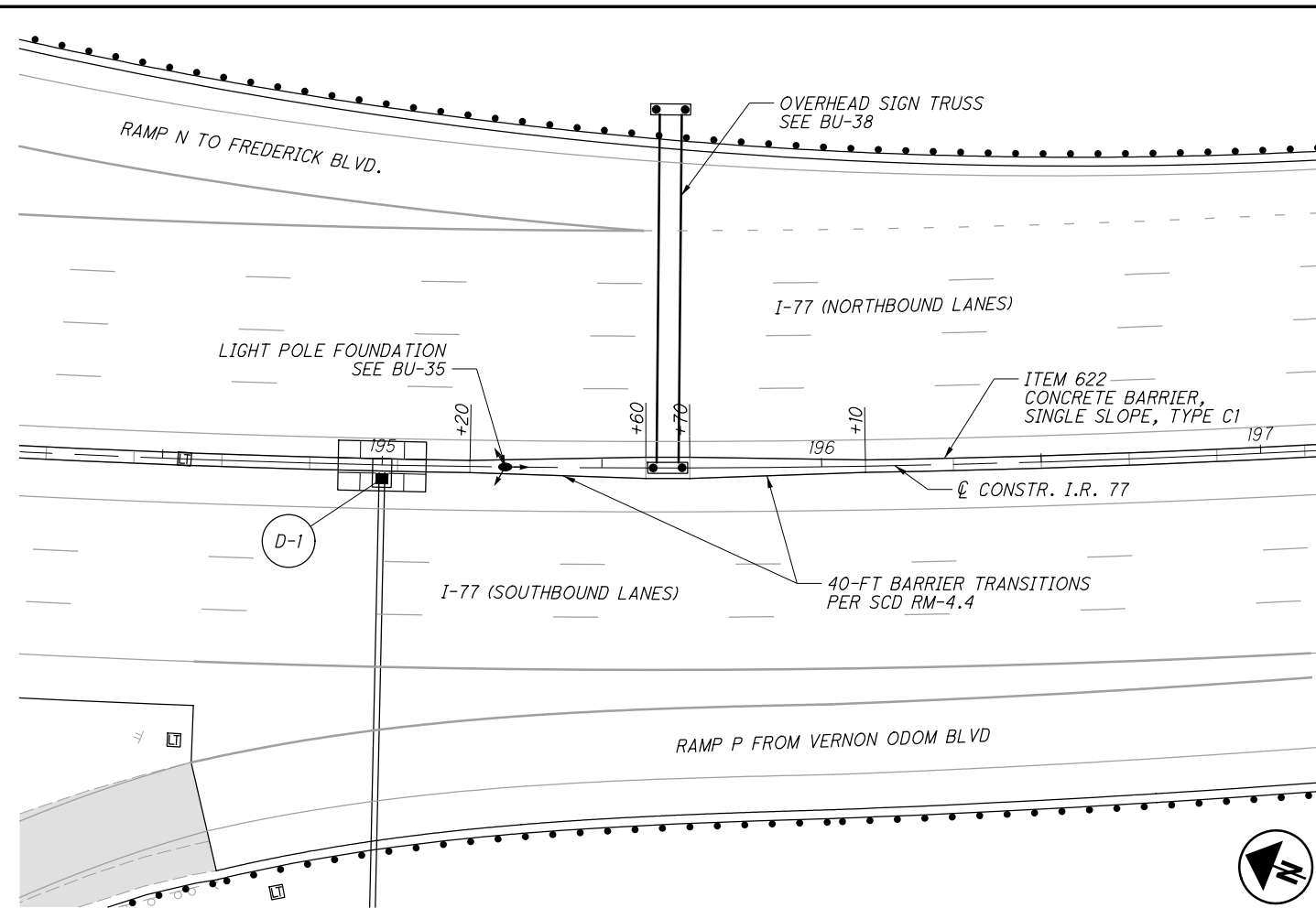
STORM SEWER PROFILE - I.R. 77
 STA. 200+58.89

SUM-76 / 77 / 8-
 8.24 / 9.74 / 0.00

82
 83

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06/29/2021

ISSUE RECORD:		
NO.	DATE	DESCRIPTION



MEDIAN BARRIER DETAILS

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

83
83