

ANDERSON TOWNSHIP  
DEPARTMENT OF PUBLIC WORKS

# HAM-TR541

## AYERS ROAD

ANDERSON TOWNSHIP  
HAMILTON COUNTY

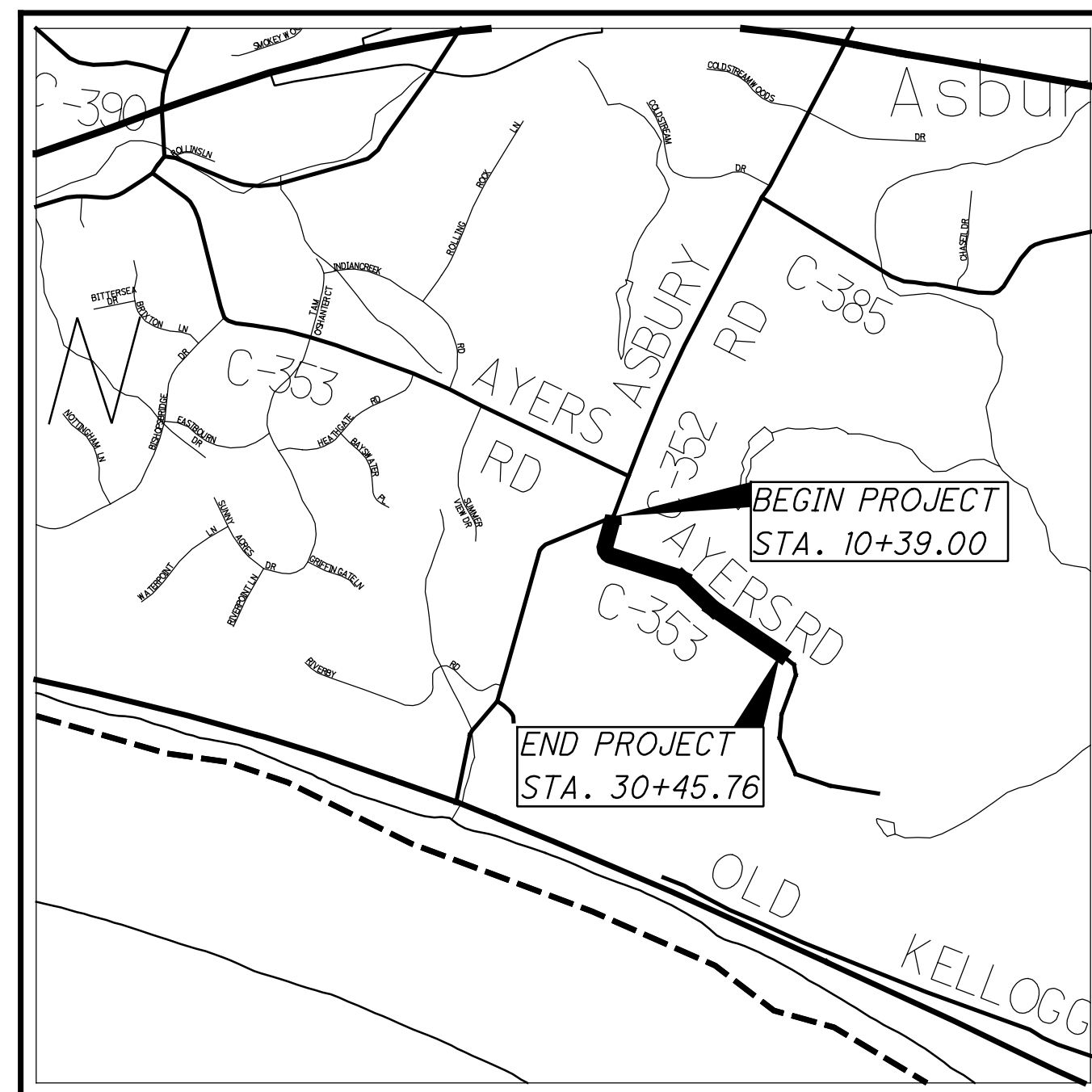
**PROJECT DESCRIPTION**

ROADWAY IMPROVEMENTS OF ONE-HALF MILE OF AYERS ROAD, INCLUDING STORM SEWER UPGRADES, ROADSIDE GRADING, AND TRAFFIC CONTROL.

PROJECT EARTH DISTURBED AREA: 2.272 ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.125 ACRES  
NOTICE OF INTENT EARTH DISTURBED AREA: 2.397 ACRES

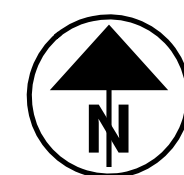
**2019 SPECIFICATIONS**

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



LOCATION MAP

LATITUDE: 39°02'47" LONGITUDE: 84°20'52"



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

**DESIGN DESIGNATION**

CURRENT ADT (2022)	1000
DESIGN YEAR ADT (2042)	1200
DESIGN HOURLY VOLUME (2042)	120
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	3%
DESIGN SPEED	25 MPH
LEGAL SPEED	25 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
LOCAL ROAD-RURAL	
NHS PROJECT	NO

**DESIGN EXCEPTIONS**

NONE

**INDEX OF SHEETS:**

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## FINAL PLANS - 8 / 30 / 2022

**UNDERGROUND UTILITIES**  
CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

Call Before You Dig  
**1-800-362-2764**

(Non-members must be called directly)

OIL & GAS PRODUCERS  
UNDERGROUND PROTECTION SERVICE  
**1-800-925-0988**

PLAN PREPARED BY:



ENGINEERS SEAL:

SIGNED: \_\_\_\_\_  
DATE: \_\_\_\_\_

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/21/22	TC-41.20	10/18/13	MT-96.11	4/16/21	800	7/15/22
BP-3.2	1/18/19	TC-41.30	10/18/13	MT-96.20	7/15/16	832	7/15/22
BP-4.1	7/19/13	TC-42.20	10/18/13	MT-96.26	1/18/19		
BP-5.1	7/15/22	TC-52.10	10/18/13	MT-97.10	4/19/19		
		TC-52.20	1/15/21	MT-101.60	1/17/20		
RM-1.1	1/15/21	TC-65.10	1/17/14	MT-101.90	7/17/20		
		TC-65.11	7/15/22				
CB-2-2B	7/16/21						
DM-1.1	7/17/20						
DM-4.4	1/15/16						
MH-3	7/16/21						
HW-2.1	7/20/18						
HW-2.2	7/20/18						

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ TOWNSHIP PUBLIC WORKS DIRECTOR

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ TOWNSHIP ADMINISTRATOR

FEDERAL PROJECT NO.  
N/A

PID NO.  
N/A

CONSTRUCTION PROJECT NO.  
N/A

RAILROAD INVOLVEMENT  
**NONE**

**HAM-TR541**

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# SCHEMATIC PLAN

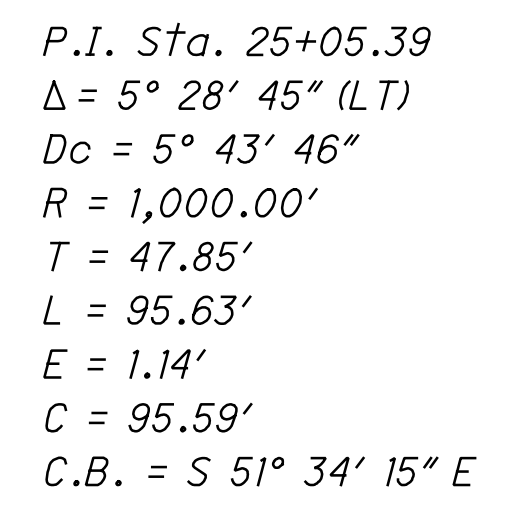
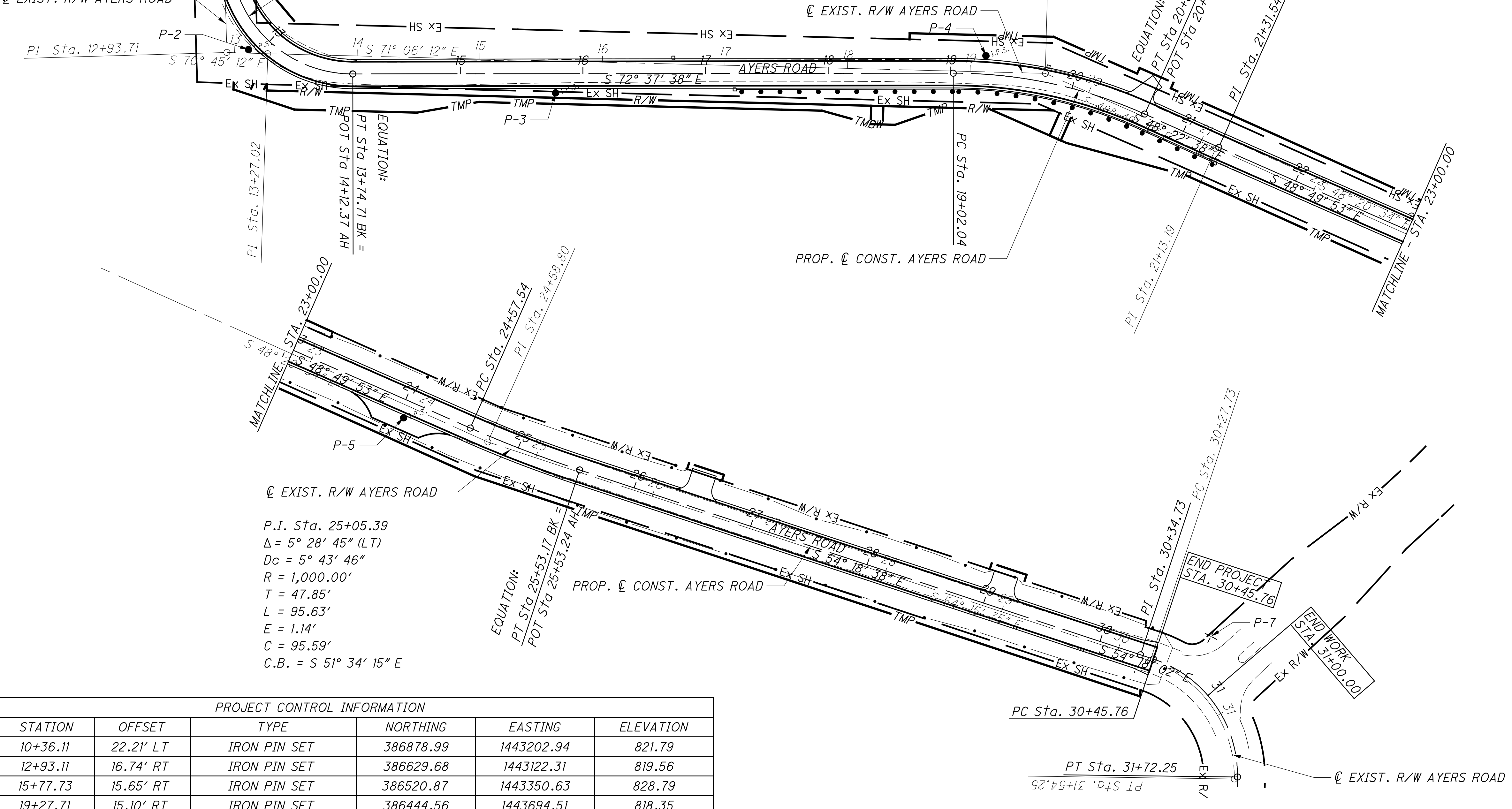
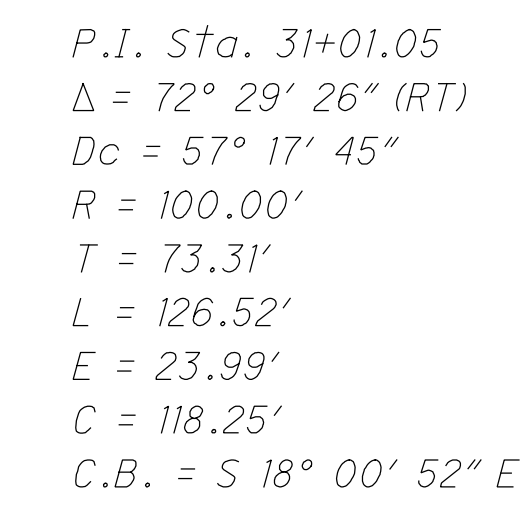
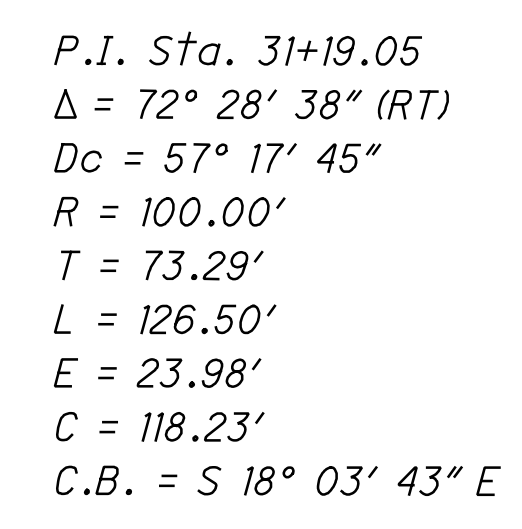
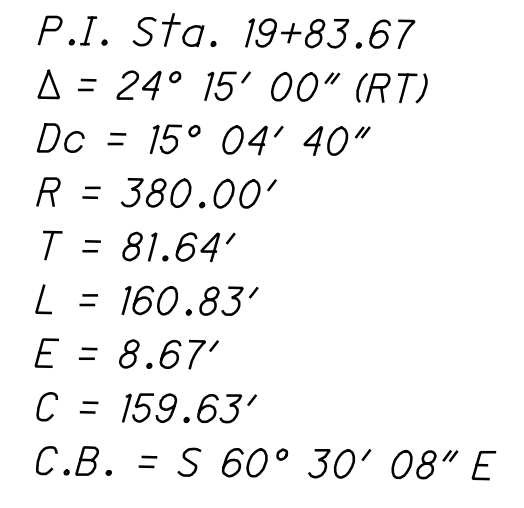
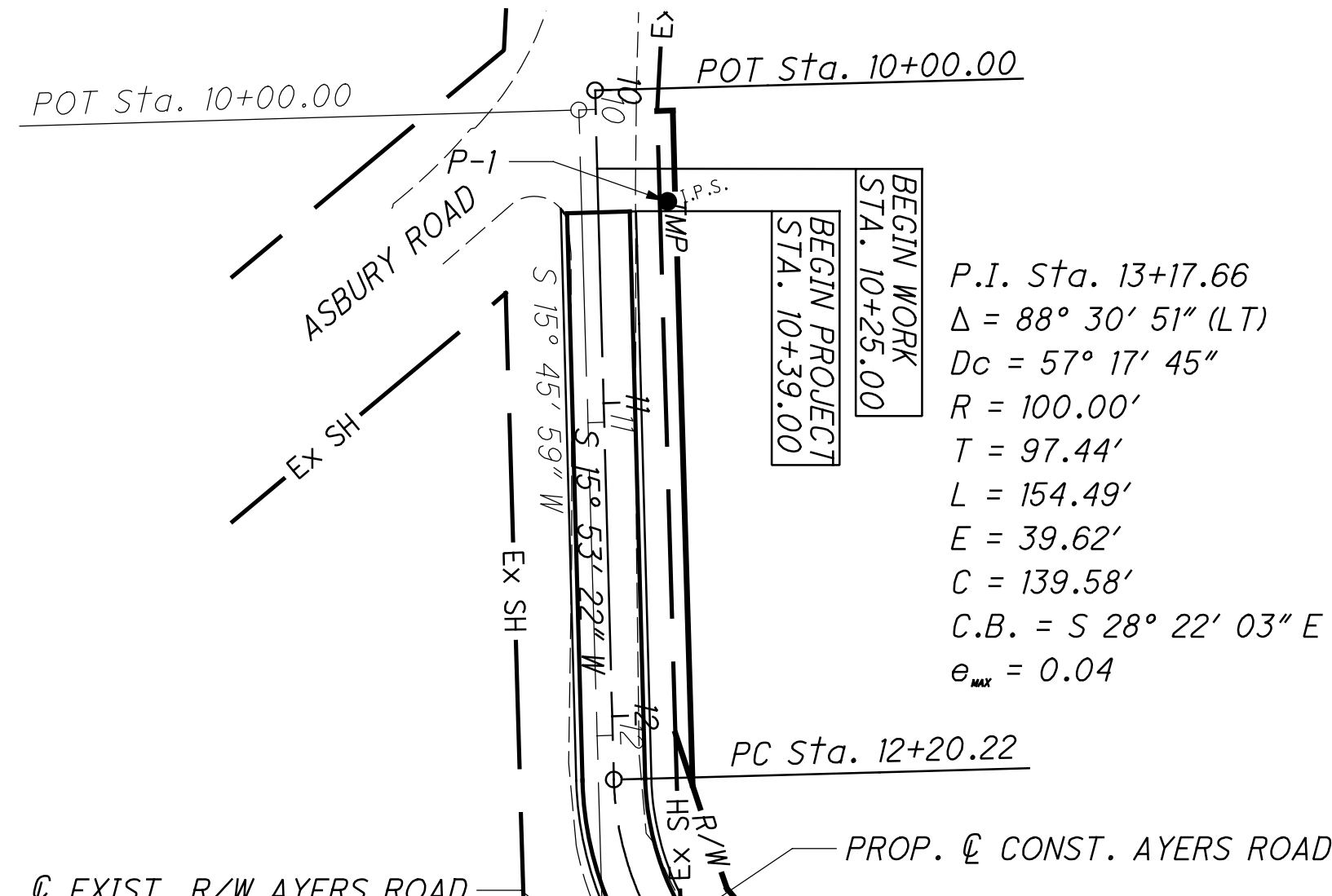
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EXIST. R/W AYERS ROAD ALIGNMENT DATA

POINT TYPE	STATION	NORTHING	EASTING
POT	10+00.00	386915.385	1443184.608
PI	12+93.71	386632.721	1443104.802
PI	13+27.02	386621.742	1443136.248
PI	19+61.42	386416.283	1443736.456
PI	21+13.19	386316.354	1443850.685
PI	24+58.80	386086.640	1444108.897
PC	30+27.73	385754.316	1444570.690

PROP. R/W & CONST. AYERS ROAD ALIGNMENT DATA

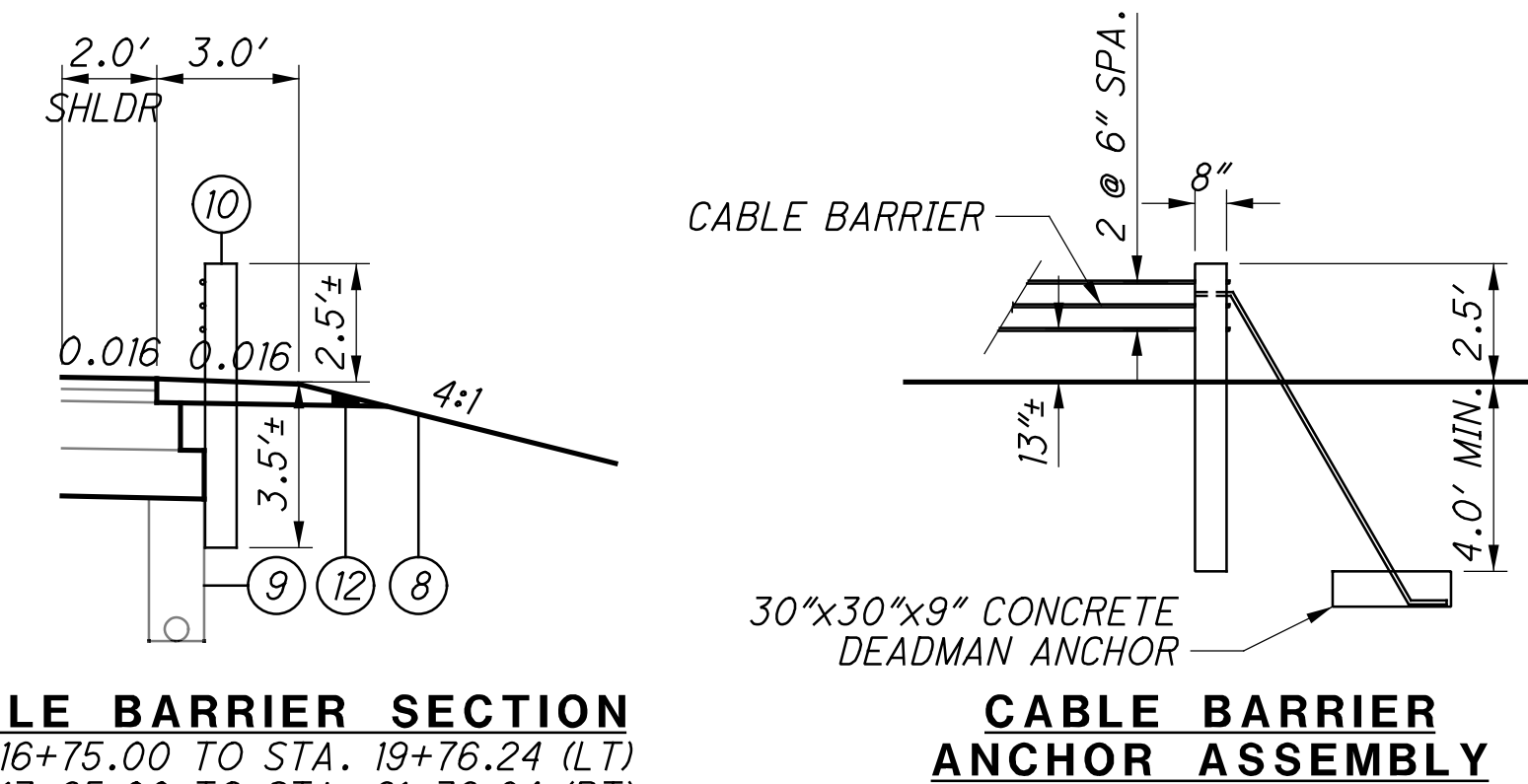
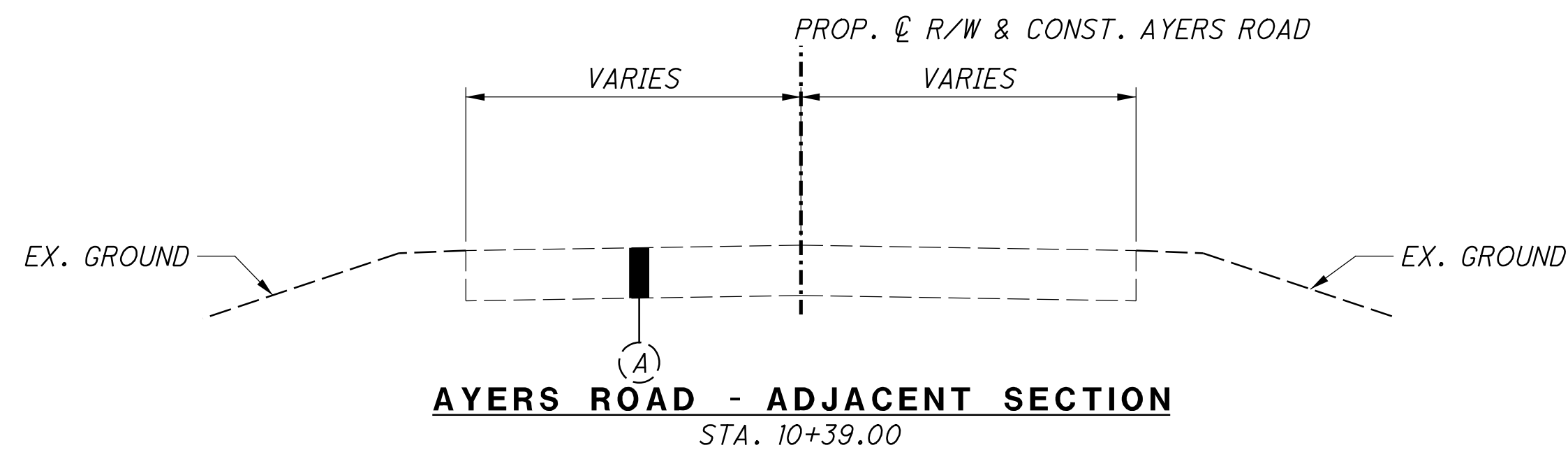
POINT TYPE	STATION	NORTHING	EASTING
POT	10+00.00	386919.80	1443191.46
BEGIN WORK	10+25.00	386895.76	1443184.62
BEGIN PROJECT	10+39.00	386882.29	1443180.78
PC	12+20.22	386707.99	1443131.17
POT	14+12.37	386585.18	1443197.49
PC	19+02.04	386438.97	1443664.81
POT	20+65.31	386360.37	1443803.76
PI	21+31.54	386318.24	1443853.26
PC	24+57.54	386101.78	1444098.67
POT	25+53.24	386042.36	1444173.56
END PROJECT	30+45.76	385755.03	1444573.57
END WORK	31+00.00	385713.25	1444607.12
PT	31+72.25	385642.62	1444610.23



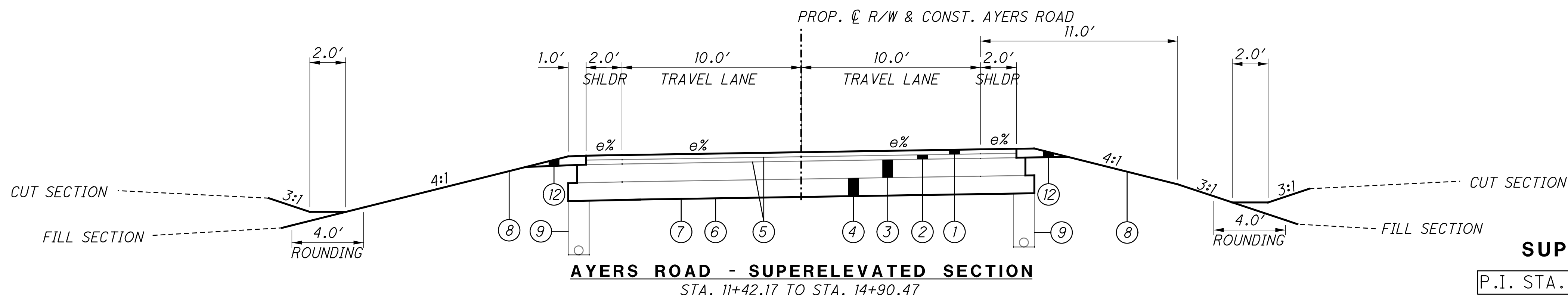
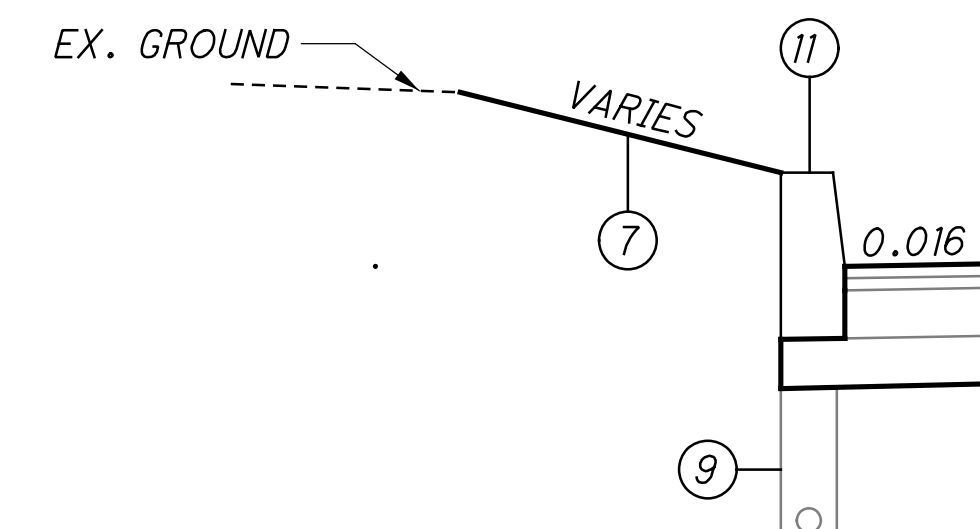
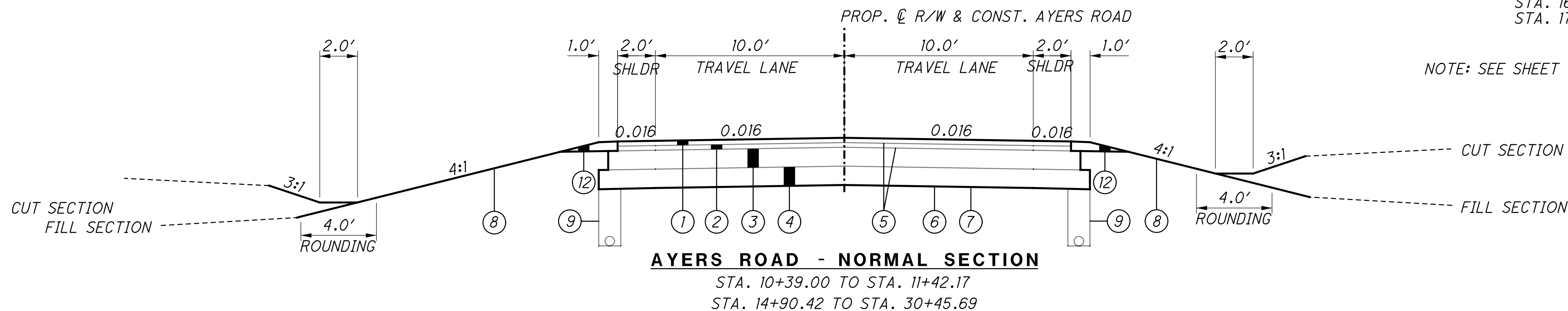
PROJECT CONTROL INFORMATION

POINT	STATION	OFFSET	TYPE	NORTHING	EASTING	ELEVATION
P-1	10+36.11	22.21' LT	IRON PIN SET	386878.99	1443202.94	821.79
P-2	12+93.11	16.74' RT	IRON PIN SET	386629.68	1443122.31	819.56
P-3	15+77.73	15.65' RT	IRON PIN SET	386520.87	1443350.63	828.79
P-4	19+27.71	15.10' RT	IRON PIN SET	386444.56	1443694.51	818.35
P-5	24+04.43	14.22' RT	IRON PIN SET	386126.04	1444049.32	847.77
P-7	30+74.36	37.84' LT	CROSS NOTCH IN WALK	385758.52	1444623.96	836.31

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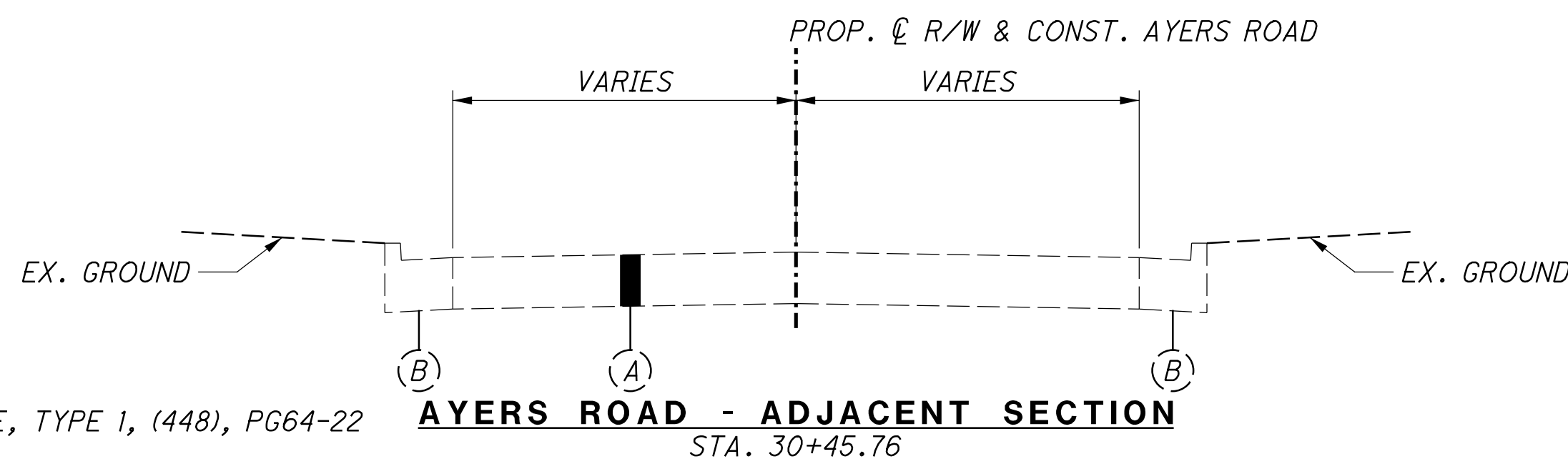
NOTE: SEE SHEET 4 OF THESE PLANS FOR ADDITIONAL CABLE BARRIER CONSTRUCTION INFORMATION



**SUPERELEVATION TABLE**

P.I. STA. 13+17.66 Dc = 57°17'45"

ELEVATION	LEFT SIDE			CENTERLINE CONTROL		RIGHT SIDE			ELEVATION
	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	
822.11	-0.016	-0.016	10.0	11+46.89	822.27	10.0	-0.016	-0.160	822.11
821.96	-0.016	-0.016	10.0	11+50.00	822.32	10.0	-0.014	-0.140	822.18
822.34	-0.016	-0.016	10.0	11+75.00	822.50	10.0	0.001	+0.010	822.51
822.05	-0.016	-0.016	10.0	12+00.00	822.21	10.0	0.016	+0.160	822.37
821.71	-0.028	-0.028	10.0	P.C. 12+20.22	821.69	10.0	0.028	+0.280	821.97
821.25	-0.031	-0.031	10.0	12+25.00	821.56	10.0	0.031	+0.310	821.87
820.66	-0.040	-0.040	10.0	12+50.00	821.06	10.0	0.040	+0.400	821.46
819.66	-0.040	-0.040	10.0	12+75.00	820.77	10.0	0.040	+0.400	821.07
820.32	-0.040	-0.040	10.0	13+00.00	820.72	10.0	0.040	+0.400	821.02
820.49	-0.040	-0.040	10.0	13+25.00	820.89	10.0	0.040	+0.400	821.29
820.89	-0.040	-0.040	10.0	13+50.00	821.29	10.0	0.040	+0.400	821.69
821.51	-0.028	-0.028	10.0	P.T. 13+74.71 BK= P.T. 14+12.37 AH	821.91	10.0	0.028	+0.280	822.19
821.92	-0.020	-0.020	10.0	14+25.00	822.32	10.0	0.020	+0.200	822.52
822.88	-0.016	-0.016	10.0	14+50.00	823.28	10.0	0.005	+0.054	823.33
824.08	-0.016	-0.016	10.0	14+75.00	824.48	10.0	-0.010	-0.100	824.38
824.65	-0.016	-0.016	10.0	14+85.70	825.05	10.0	-0.016	-0.160	824.89



**LEGEND**

- (A) EXISTING ASPHALT PAVEMENT
- (B) EXISTING CURB AND GUTTER
- (1) ITEM 441 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
- (2) ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22
- (3) ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22
- (4) ITEM 304 - 6" AGGREGATE BASE
- (5) ITEM 407 - TACK COAT (0.055 GAL/SY)
- (6) ITEM 204 - SUBGRADE COMPACTION
- (7) ITEM 204 - PROOF ROLLING
- (8) ITEM 659 - SEEDING AND MULCHING
- (9) ITEM 605 - 6" BASE PIPE UNDERDRAINS (18")
- (10) ITEM 606 - SPECIAL - CABLE BARRIER
- (11) ITEM 609 - TYPE 7 CURB
- (12) ITEM 411 - 3" STABILIZED CRUSHED AGGREGATE

TYPICAL SECTIONS

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**ROUNDING**

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

**UTILITIES**

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

**ELECTRIC:**

DUKE ENERGY  
2010 DANA AVENUE, EF324  
CINCINNATI, OH 45207  
(513) 458-3804  
CONTACT: AMANDA BRAUN  
Amanda.Braun@duke-energy.com

**TELEPHONE:**

CINCINNATI BELL  
221 EAST 4TH STREET  
BLDG. 121-900  
CINCINNATI, OH 45202  
(513) 565-7187  
CONTACT: Breck Cowan  
breck.cowan@cinbell.com

**CINCINNATI BELL-AERIAL & PLACING**

209 WEST 7TH STREET  
BLDG. 121-900  
CINCINNATI, OH 45202  
(513) 566-5120  
CONTACT: DORIAN JOHNSON  
Dorian.Johnson@cinbell.com

**WATER:**

CINCINNATI WATER WORKS  
4747 SPRING GROVE AVENUE  
CINCINNATI, OH 45232  
(513) 591-6581  
CONTACT: MICHAEL COSSINS  
Michael.Cossins@gcww.cincinnati-oh.gov

**GAS:**

DUKE ENERGY  
139 EAST FOURTH STREET  
ROOM 460A  
CINCINNATI, OH 45202  
(513) 287-2366  
CONTACT: Tommy Mitchell  
thomas.mitchell5@duke-energy.com

**CABLE:**

CHARTER COMMUNICATIONS  
10920 KENWOOD ROAD  
BLUE ASH, OH 45242  
(513) 386-5499  
CONTACT: KENT RIEGER  
kent.rieger@charter.com

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.

**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.

**SURVEYING PARAMETERS**

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 FOR A TABLE CONTAINING PRIMARY PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PRIMARY PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

**PRIMARY PROJECT CONTROL**

POSITIONING METHOD: VRS GNSS  
MONUMENT TYPE: B

**VERTICAL POSITIONING**

ORTHOMETRIC HEIGHT DATUM: NGVD29  
GEOID: GEOID03

**HORIZONTAL POSITIONING**

REFERENCE FRAME: NAD83 (2011) EPOCH 2010.0  
ELLIPSOID: GRS80  
MAP PROJECTION: LAMBERT CONFORMAL CONIC  
COORDINATE SYSTEM: OHIO STATE PLANE (SOUTH) ZONE  
ALL COORDINATES ARE GROUND COORDINATES  
ORIGIN OF COORDINATE SYSTEM: 0,0

USE THE POSITIONING METHOD AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 823.

**SEEDING AND MULCHING**

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 659, SEEDING AND MULCHING	5665 SQ YD
ITEM 659, REPAIR SEEDING AND MULCHING	1130 SQ YD
ITEM 659, COMMERCIAL FERTILIZER	4.6 TON
ITEM 659, LIME	1.2 ACRES
ITEM 659, WATER	150 M GAL

**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.

**CONSTRUCTION NOISE**

HOURS OF OPERATION SHALL CONFORM WITH ANY LOCAL ORDINANCES.

**CLEARING AND GRUBBING**

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

**MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED**

ALL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT OF WAY FOR SALVAGE BY THE TOWNSHIP.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

**ITEM 511 WINGWALLS OR HEADWALLS FOR 611 ITEMS**

FOR ITEMS 706.05, 706.051, 706.052 AND 706.053 WITH A CAST-IN-PLACE WINGWALL OR HEADWALL A PRECAST ALTERNATIVE MAY BE FURNISHED PER 602.03. THE PRECAST ALTERNATIVE WILL MEET THE CAST-IN-PLACE STRUCTURAL DESIGN LOADINGS, DESIGN HEIGHT, AND DESIGN LENGTH DIMENSIONS.

FULL COMPENSATION FOR THE PRECAST WINGWALL OR HEADWALL IS THE NUMBER OF CUBIC YARDS OF ITEM 511, AND POUNDS OF ITEM 509 FOR THE CORRESPONDING CAST-IN-PLACE STRUCTURE.

**ITEM 606 - SPECIAL - CABLE BARRIER**

NEW GUARD POSTS SHALL BE PRESSURE TREATED WOOD, 6 FEET ± LONG, 8 INCH ± 1 INCH MINIMUM DIAMETER, AND SHALL CONFORM TO AASHTO M-168 AND STATE OF OHIO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS SEC 710.12, 710.14 AND 712.09.

THE POSTS SHALL BE PLACED 8 FEET ON CENTER AND FINISHED TO HEIGHT OF 2 FT. 6 IN. ± INTO THE GROUND, IN A STRAIGHT OR GENTLY CURVED ALIGNMENT. THE POSTS SHALL BE SET IN DRILLED HOLES OR DRIVEN TO WITHIN 1" OF DETAIL DIMENSION.

GUARDRAIL SHALL CONSIST OF 3 CABLES, EACH 3/4 INCH DIAMETER, 3-STRAND, 7 WIRES PER STRAND (3X7), MEETING AASHTO SPECIFICATION M-30, CLASS A, TYPE 1. THE BOTTOM CABLE SHALL BE PLACED 13 INCHES ± ABOVE GRADE. THE TOP CABLE SHALL BE PLACED 12 INCHES ABOVE THE BOTTOM CABLE. THE MIDDLE CABLE SHALL BE PLACED EQUAL DISTANCE BETWEEN THE OTHER TWO.

CABLE SHALL BE ATTACHED TO THE WOODEN POSTS USING 5/8 INCH DIAMETER "J" BOLTS, BETHLEHEM STEEL CATALOG #0703 OR APPROVED EQUAL.

CABLE ANCHOR ASSEMBLIES SHALL INCLUDE ADJUSTABLE BOLTS TO BE BETHLEHEM STEEL CATALOG #9358 OR APPROVED EQUAL, WHICH PROVIDES FOR A MINIMUM OF 6 INCH TAKE-UP FOR EACH CABLE.

ANCHOR RODS FOR END POSTS SHALL BE 1 INCH DIAMETER WITH MINIMUM BREAKING STRENGTH OF 50,000 POUNDS AND SHALL INCLUDE A TURNBUCKLE WITH A MINIMUM 6 INCH TAKE-UP. EXACT DESIGN AND MANUFACTURE SHALL BE AS AVAILABLE AND APPROVED BY THE TOWNSHIP.

ANCHOR RODS SHALL BE EMBEDDED IN A 30" X 30" X 9" CAST CONCRETE DEADMAN BURIED 48+ INCHES BELOW GRADE.

SPLICING OF CABLE WILL BE PERMITTED ONLY WHERE ABSOLUTELY NECESSARY AND SHALL BE DONE USING CAST CABLE SPLICERS, TORPEDO STYLE, TO BE BETHLEHEM STEEL CATALOG #9036 OR APPROVED EQUAL.

CABLE AND ALL FITTINGS AND PARTS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM SPECIFICATION A-123.

THE COST FOR ALL POSTS, CABLES, ANCHORS, BOLTS, DEADMAN ASSEMBLIES, FITTINGS, AND OTHER PARTS SHALL BE INCLUDED IN THE COST OF ITEM 606 - SPECIAL - CABLE BARRIER.

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GENERAL NOTES

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**ITEM 614, MAINTAINING TRAFFIC**

AYERS ROAD WILL MAINTAIN A MINIMUM OF ONE TRAVEL LANE AT ALL TIMES.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPERATELY ITEMIZED IN THE PLAN.

**DUST CONTROL**

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 10 M. GAL

**TEMPORARY DRAINAGE ITEMS**

TEMPORARY DRAINAGE ITEMS LABELED ON THE MAINTENANCE OF TRAFFIC PLAN ARE ITEMIZED ON THE MOT PLANS. PAYMENT FOR THE TEMPORARY DRAINAGE ITEMS ARE ITEMIZED AND CARRIED TO THE GENERAL SUMMARY.

**SEQUENCE OF OPERATIONS**

THE FOLLOWING CONSTRUCTION SEQUENCE WILL BE USED TO CONSTRUCT ROADSIDE IMPROVEMENTS ON AYERS ROAD. PART-WIDTH CONSTRUCTION WILL BE UTILIZED WITH TWO-WAY TRAFFIC TO BE MAINTAINED AT ALL TIMES ON ONE LANE WITH A TEMPORARY TRAFFIC SIGNAL OPERATION, FOLLOWING MT-96.11, MT-96.20, AND MT-96.26 STANDARD DRAWINGS. CONSTRUCTION DRUMS OR TRAFFIC CONTROL CONES WILL BE UTILIZED IN LIEU OF PORTABLE CONCRETE BARRIER.

**PRE-PHASE 1**

TEMPORARY PAVEMENT WIDENING IS TO BE PLACED ALONG THE WESTBOUND SIDE OF AYERS ROAD AT THE LOCATIONS SHOWN IN THE PLANS AT MINIMUM WIDTH OF 1'.

**PHASE 1**

UPON THE COMPLETION OF THE TEMPORARY WIDENING ALONG THE WESTBOUND SIDE OF AYERS ROAD, THE EASTBOUND SIDE OF AYERS ROAD WILL BE CLOSED DOWN. THE PROPOSED STORM SEWER AND PAVEMENT ALONG THE EASTBOUND SIDE OF AYERS ROAD WILL BE CONSTRUCTED. TRAFFIC IS TO BE MAINTAINED WITH A ONE-LANE, TWO-WAY SIGNALIZED OPERATION ALONG EXISTING WESTBOUND AYERS ROAD. ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

**PHASE 2**

UPON THE COMPLETION OF PHASE 1, THE WESTBOUND SIDE OF AYERS ROAD WILL BE CLOSED DOWN. THE PROPOSED STORM SEWER, AND PAVEMENT ALONG THE WESTBOUND SIDE OF AYERS ROAD WILL BE CONSTRUCTED. TRAFFIC IS TO BE MAINTAINED WITH A ONE-LANE, TWO-WAY SIGNALIZED OPERATION ALONG PROPOSED EASTBOUND AYERS ROAD. ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

**SIGNAL TIMING AND MAXIMUM CLOSURE LENGTHS**

TEMPORARY TRAFFIC SIGNAL TIMING TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

MINIMUM ROADWAY CLOSURE LENGTH (WORK ZONE) SHALL BE 500 LINEAR FEET TO ALLOW A REASONABLE WORK AREA. MAXIMUM ROADWAY CLOSURE LENGTH (WORK ZONE) SHALL BE 800 LINEAR FEET TO MINIMIZING TEMPORARY SIGNAL TOTAL CYCLE LENGTHS. WORK ZONES SHALL ADHERE TO THE FOLLOWING RECOMMENDED STATIONING UNLESS OTHERWISE APPROVED:

- 1) STATION 10+39.00 TO STATION 16+30.00
- 2) STATION 16+30.00 TO STATION 24+00.00
- 3) STATION 24+00.00 TO STATION 30+50.00

**FULLY-ACTUATED OPERATION OF TEMPORARY SIGNAL**

THE WORK ZONE SIGNAL CONTROL REQUIRED FOR THIS PROJECT AND SHOWN ON TRAFFIC SCDS MT-96.11, 96.20, AND 96.26 SHALL BE FULLY TRAFFIC-ACTUATED AND OPERATE IN A MANNER SIMILAR TO THAT DESCRIBED IN SECTION 733.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE INITIAL CONTROLLER TIMING SHALL BE AS FOLLOWS:

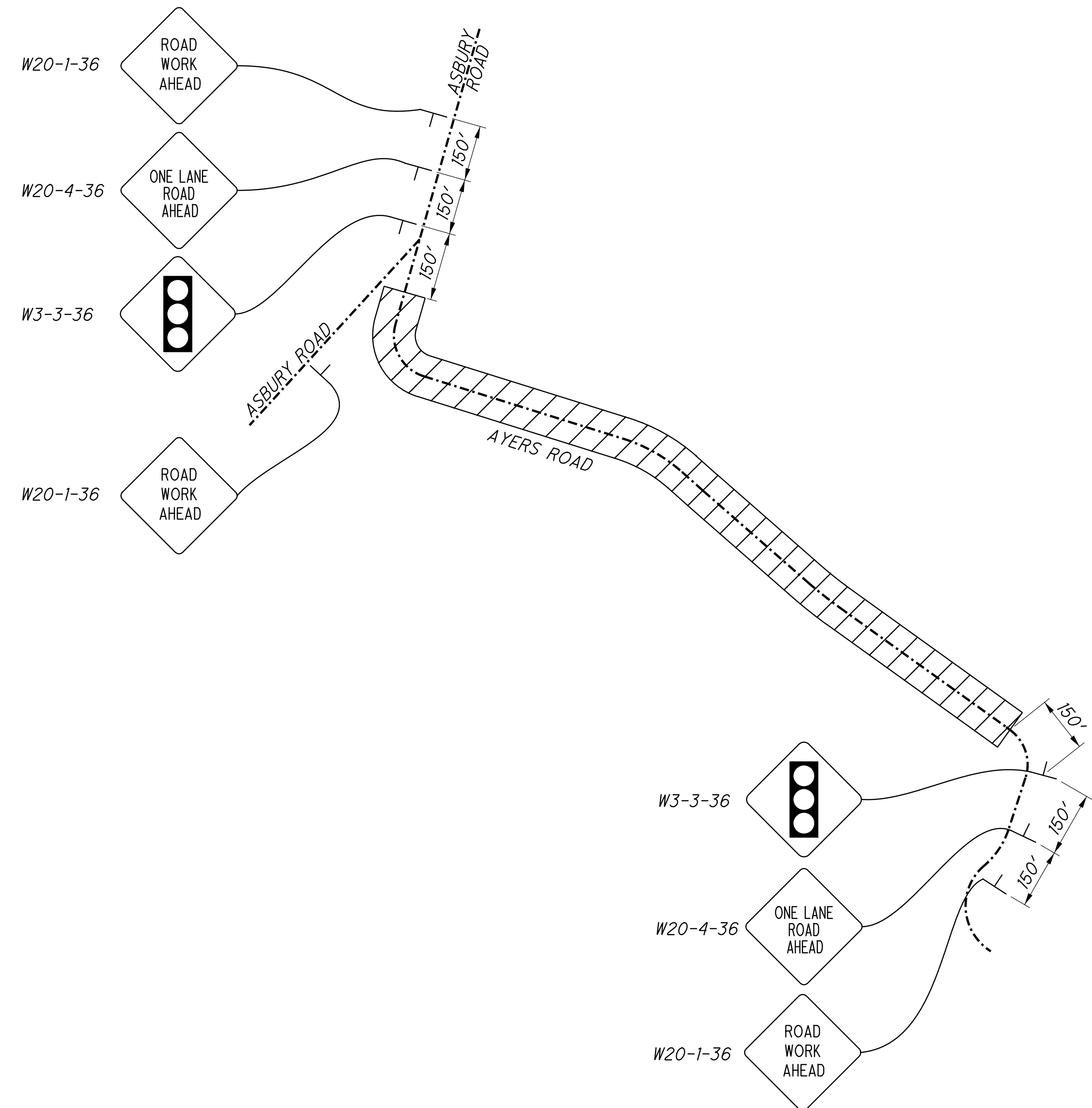
	SIGNAL PHASE			
	1	2	3	4
	(ALL RED) DUMMY PHASE	MAINLINE EASTBOUND	(ALL RED) DUMMY PHASE	MAINLINE WESTBOUND
MIN.GREEN		10		10
EXTENSION		4		4
MAX.GREEN		20		20
YELLOW		3.5		3.5
ALL RED	X		X	
RECALL	ON	OFF	OFF	OFF

PROVIDE TIMING APPROPRIATE FOR THE SIGNAL LOCATION AND WORK ZONE UNDER CONSIDERATION. TYPICAL FLOW RATES ARE DISPLAYED IN TABLE 697-2 IN THE ODOT TRAFFIC ENGINEERING MANUAL (TEM). CONTRACTOR TO PROVIDE SIGNAL TIMING TO THE ENGINEER FOR APPROVAL PRIOR TO OPERATION OF THE TEMPORARY SIGNAL. SIGNAL TIMING SHALL FOLLOW THE GUIDANCE OF THE TEM.

THE CONTRACTOR SHALL ALSO DESIGN, FURNISH, INSTALL AND MAINTAIN A TRAFFIC DETECTOR ON EACH TRAFFIC APPROACH WHICH WILL RELIABLY DETECT ALL LEGAL TRAFFIC APPROACHING (BUT NOT LEAVING) THE SIGNAL AS IT PASSES OR WAITS IN THE DESIGNATED DETECTOR ZONE SHOWN IN THE PLANS. DETECTOR DESIGNS WHICH DO NOT PROVIDE RELIABLE DETECTION, FREE FROM FALSE CALLS, SHALL BE IMMEDIATELY REPLACED BY THE CONTRACTOR.

THE COST OF ALL MATERIALS, LABOR, AND INCIDENTALS SHALL BE PAID FOR AS ITEM 614 SPECIAL - WORK ZONE TRAFFIC SIGNAL.

**ADVANCE WARNING SIGNS LAYOUT**



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CALCULATED  
JAH  
CHECKED  
CJS

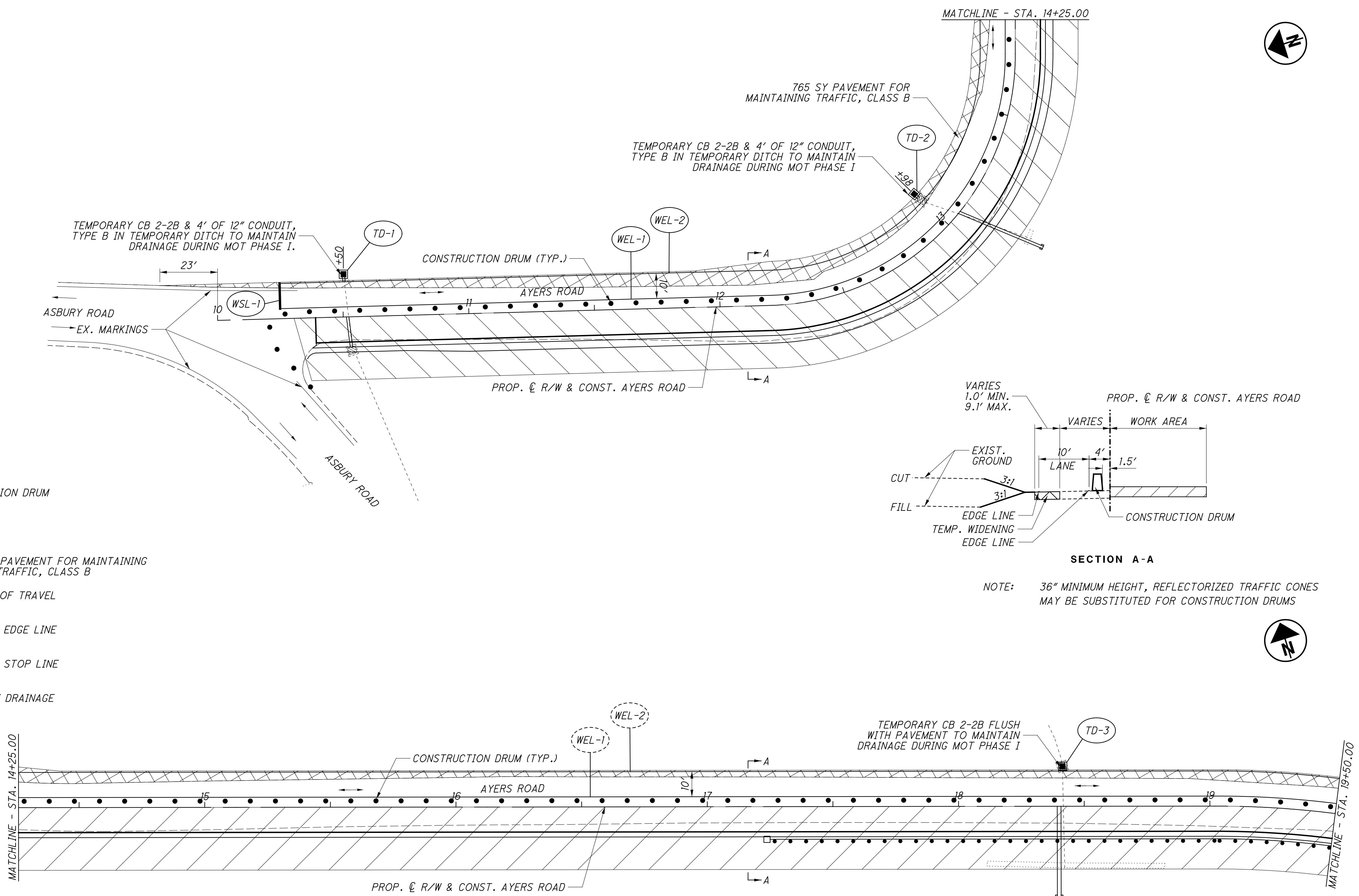
**MAINTENANCE OF TRAFFIC NOTES**

**HAM - TR541**

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**LEGEND**

- CONSTRUCTION DRUM
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- DIRECTION OF TRAVEL
- WEL-X WORK ZONE EDGE LINE
- WSL-X WORK ZONE STOP LINE
- TD-X TEMPORARY DRAINAGE



**SECTION A-A**

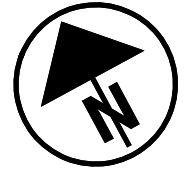
NOTE: 36" MINIMUM HEIGHT, REFLECTORIZED TRAFFIC CONES MAY BE SUBSTITUTED FOR CONSTRUCTION DRUMS

**MAINTENANCE OF TRAFFIC - PHASE I**  
**STA. 10+00.00 TO STA. 19+50.00**

**HAM-TR541**

CALCULATED	JAH
CHECKED	CJS

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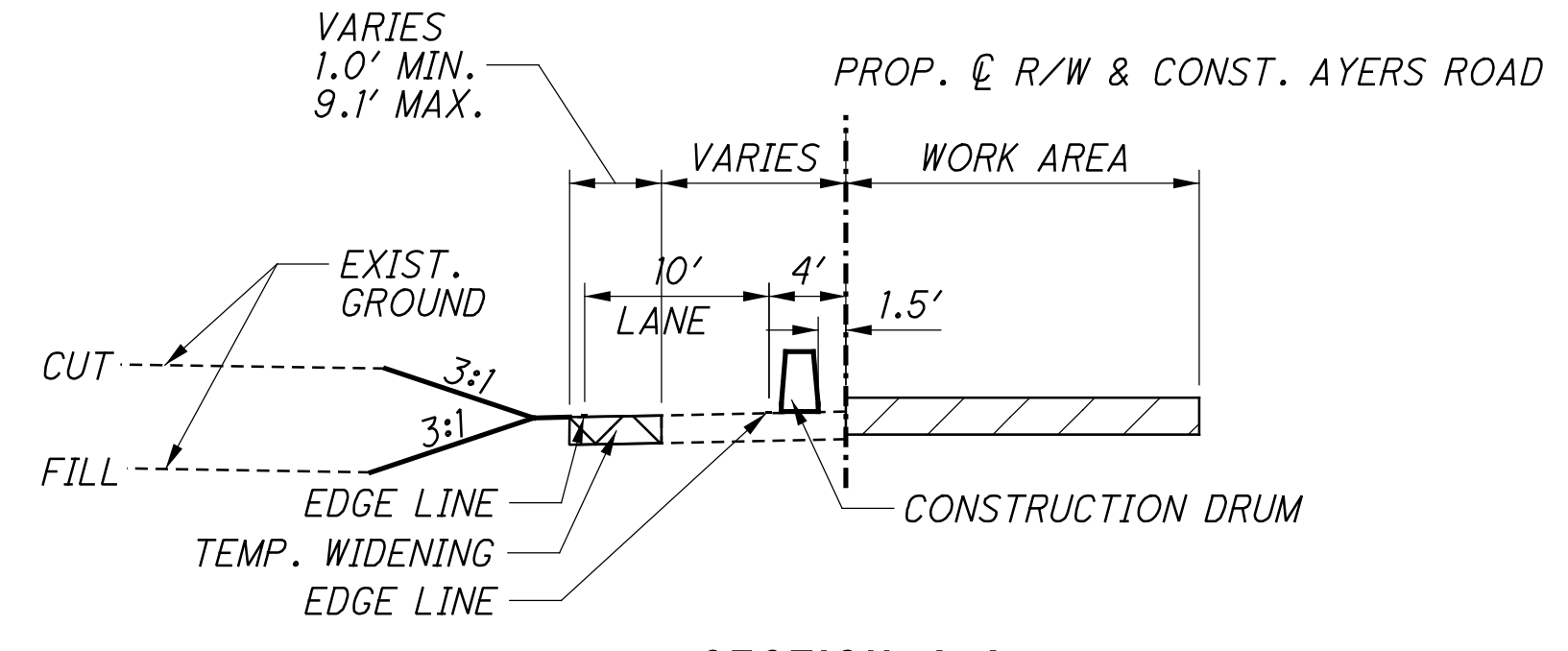
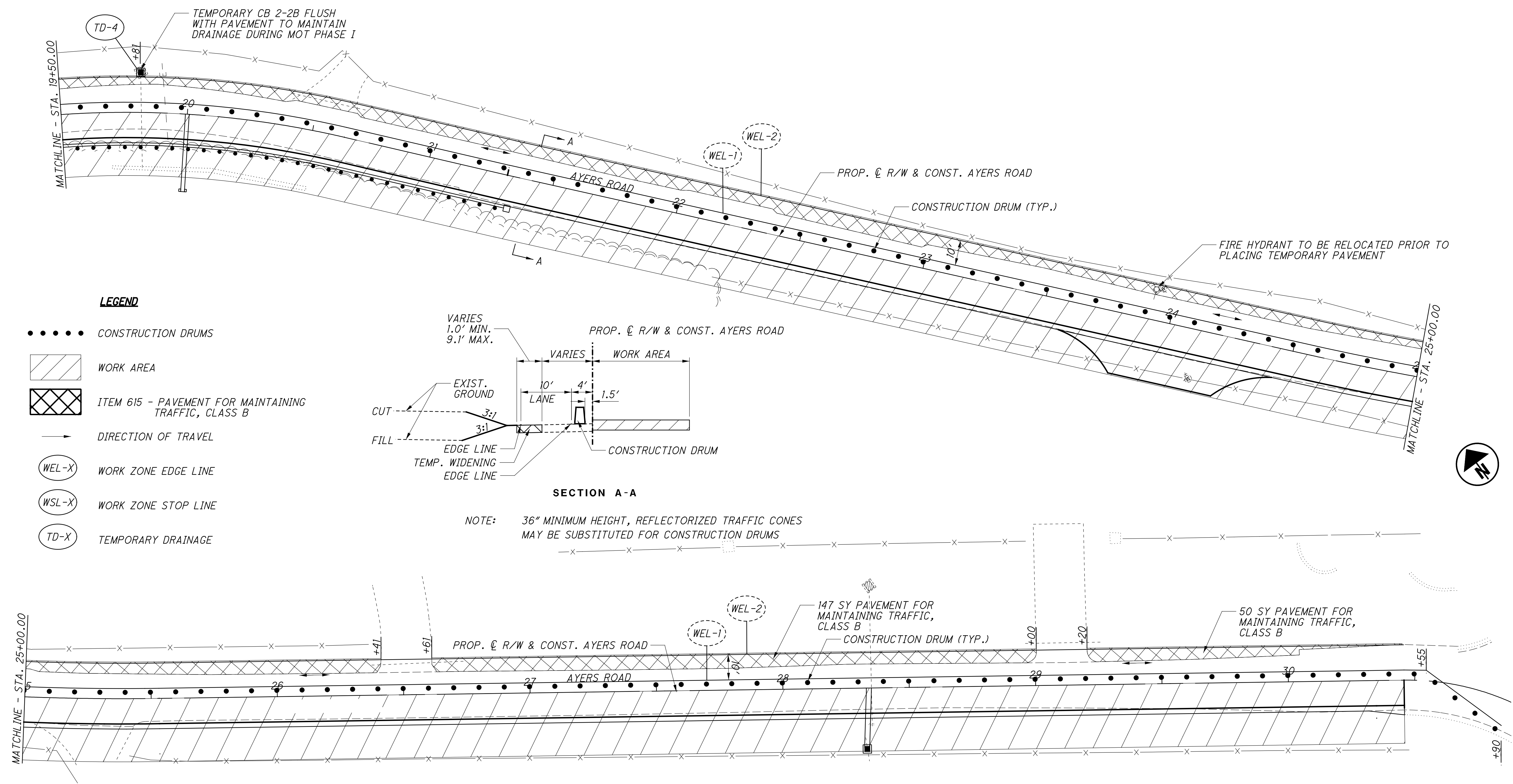


CALCULATED  
JAH  
CHECKED  
CJS

0 10 20 40  
HORIZONTAL  
SCALE IN FEET

**MAINTENANCE OF TRAFFIC PHASE I**  
**STA. 19+50.00 TO STA. 30+50.00**

**HAM-TR541**



**SECTION A-A**

NOTE: 36" MINIMUM HEIGHT, REFLECTORIZED TRAFFIC CONES MAY BE SUBSTITUTED FOR CONSTRUCTION DRUMS

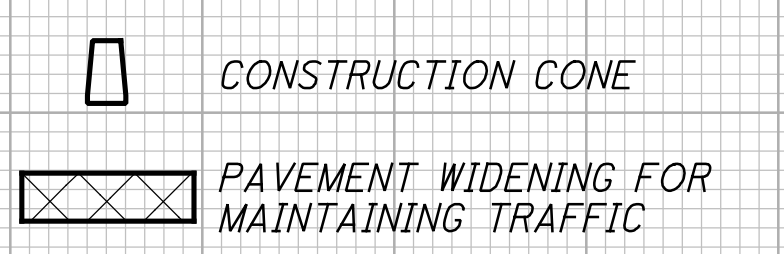
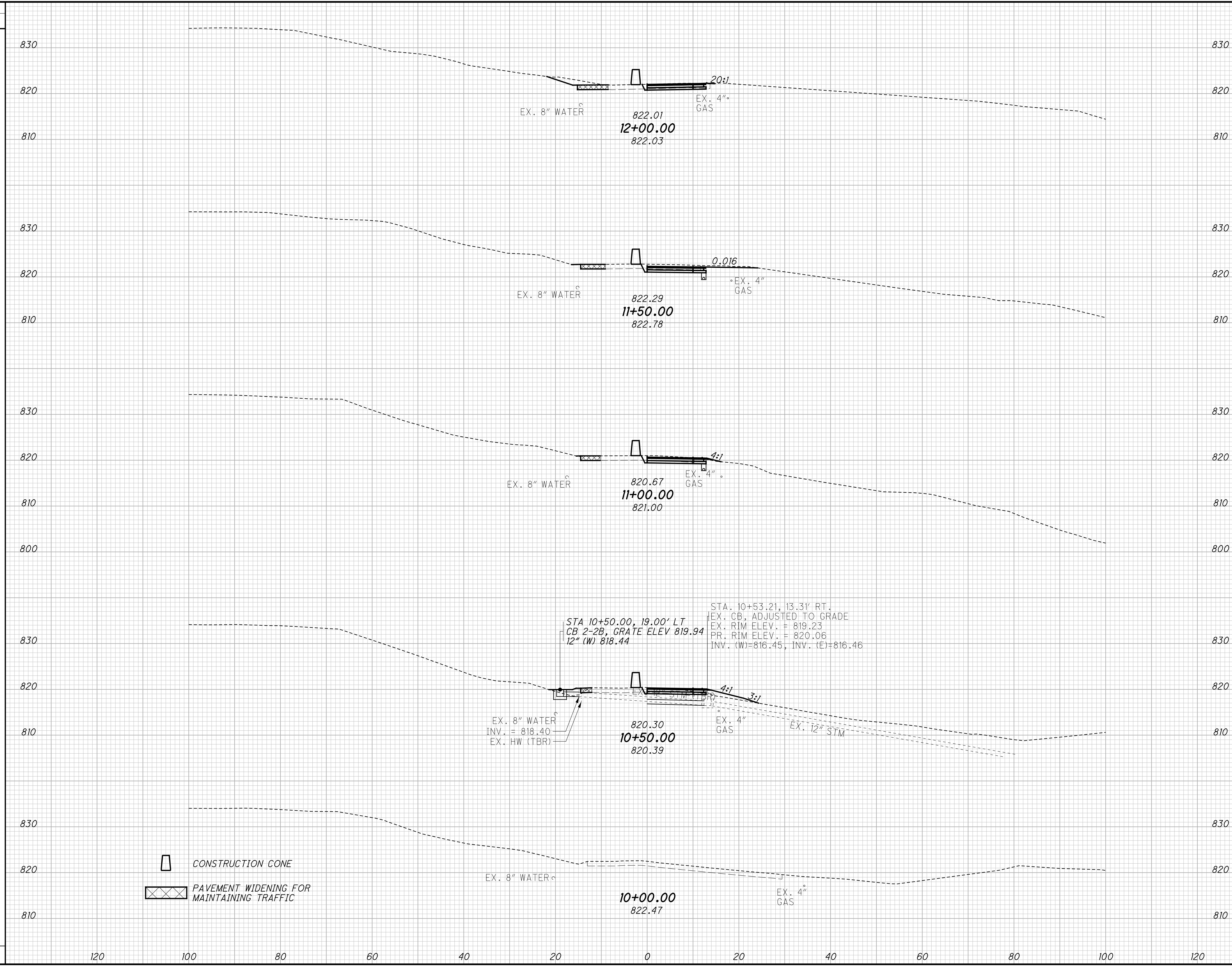
- LEGEND**
- ● ● ● CONSTRUCTION DRUMS
  - ▨ WORK AREA
  - ▩ ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
  - DIRECTION OF TRAVEL
  - WEL-X WORK ZONE EDGE LINE
  - WSL-X WORK ZONE STOP LINE
  - TD-X TEMPORARY DRAINAGE



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SEEDING

END WIDTH	SO. YDS.
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	



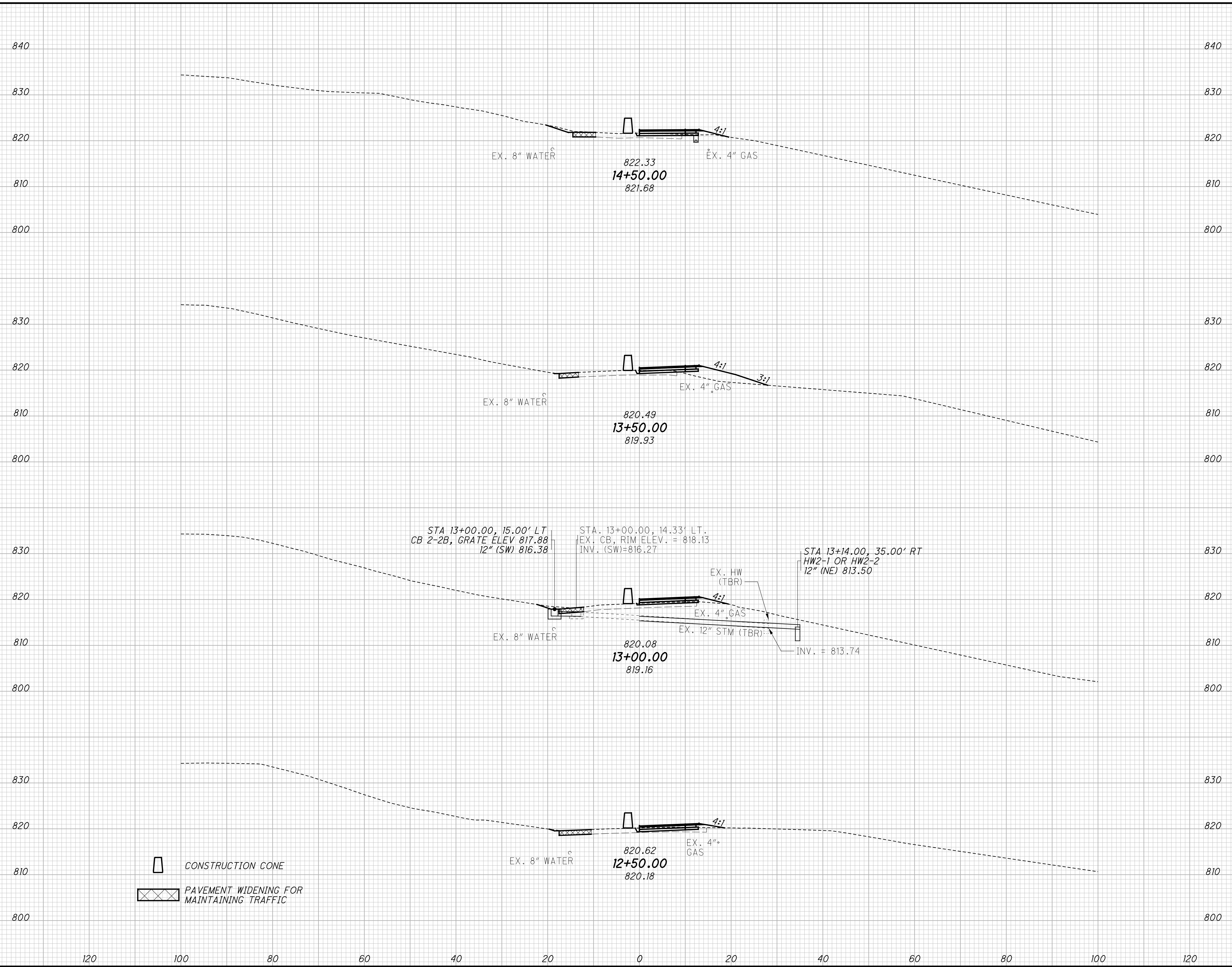
END AREA		VOLUME		CALCULATED JAH	CHECKED CJS
CUT	FILL	CUT	FILL		

MOT PHASE I CROSS SECTIONS  
STA. 10+00.00 TO STA. 12+00.00

HAM-TR541

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SEEDING	
END WIDTH	SO. YDS.



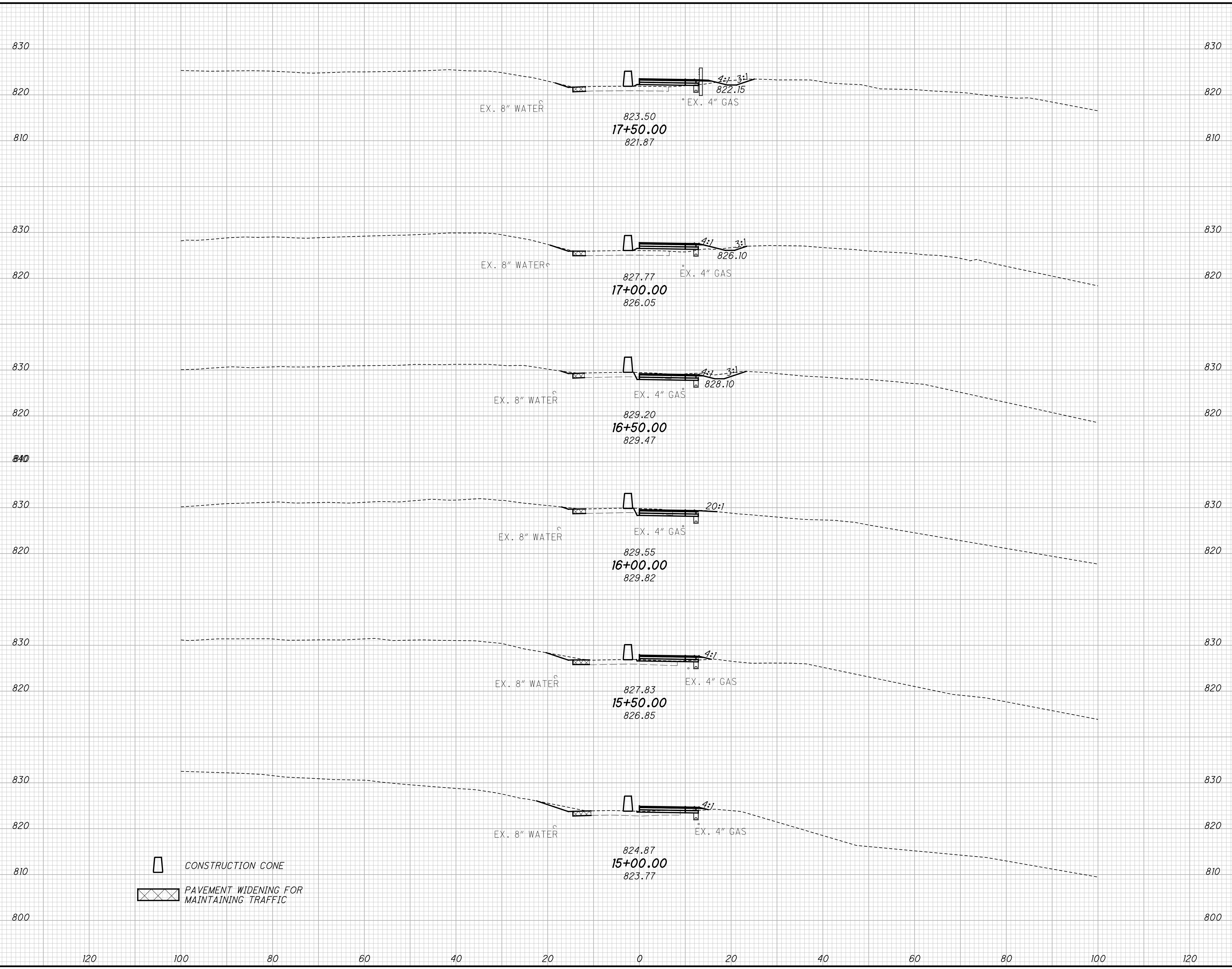
END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	JAH	CJS

MOT PHASE I CROSS SECTIONS  
STA. 12+50.00 TO STA. 14+50.00

HAM-TR541

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SEEDING	
END WIDTH	SO. YDS.



END AREA		VOLUME		CALCULATED JAH	CHECKED CJS
CUT	FILL	CUT	FILL		

**HAM - TR541**

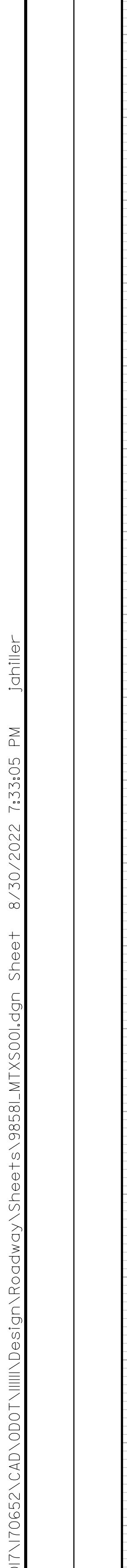
**MOT PHASE I CROSS SECTIONS  
STA. 15+00.00 TO STA. 17+50.00**

10  
53



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SEEDING	
END WIDTH	SO. YDS.



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
18+00.00				
18+50.00				
19+00.00				
19+50.00				
20+00.00				

- ▣ CONSTRUCTION CONE
- ▣ PAVEMENT WIDENING FOR MAINTAINING TRAFFIC

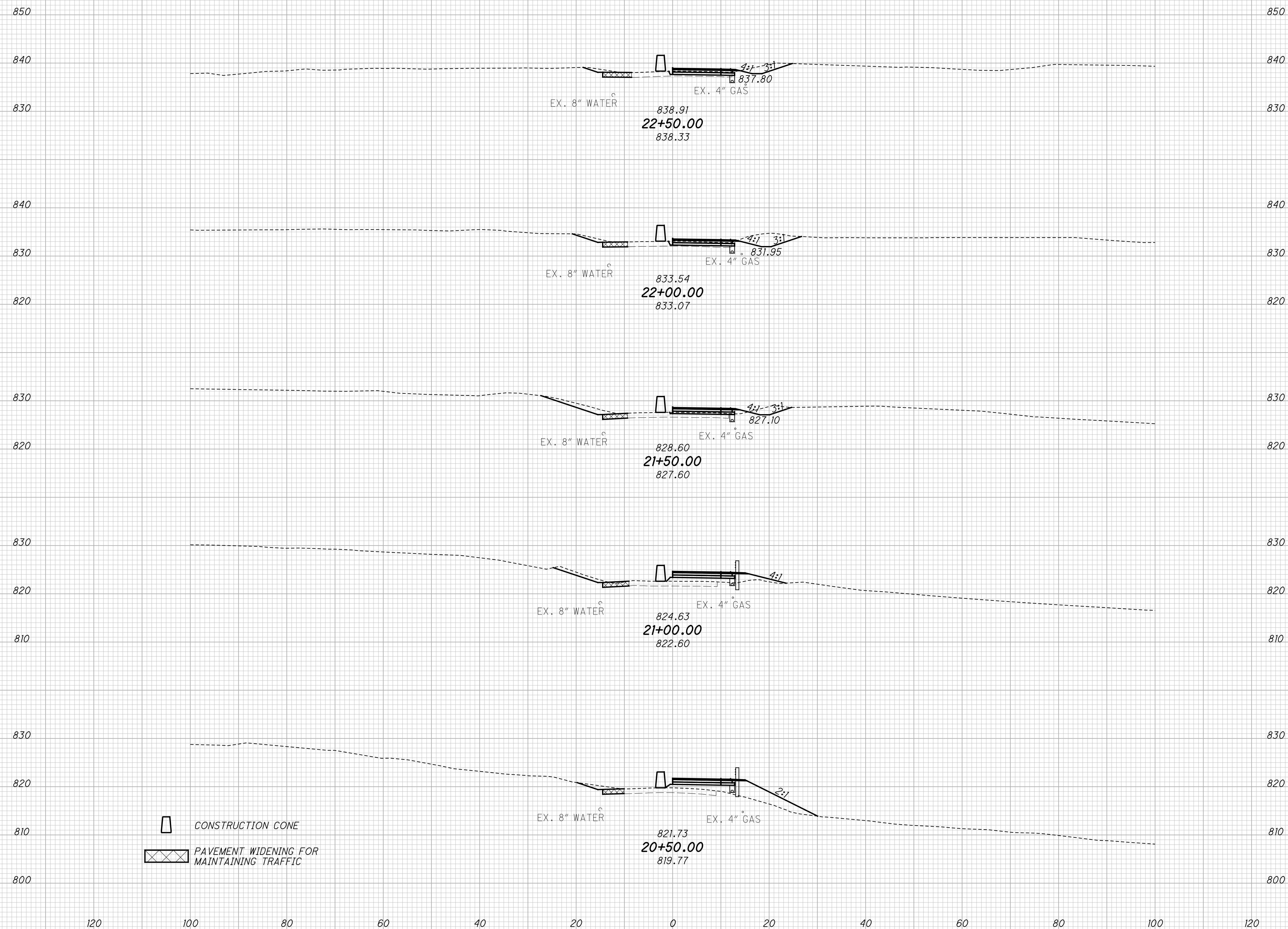
**MOT PHASE I CROSS SECTIONS**  
**STA. 18+00.00 TO STA. 20+00.00**



**HAM - TR541**

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	JAH	CJS



 CONSTRUCTION CONE  
 PAVEMENT WIDENING FOR MAINTAINING TRAFFIC

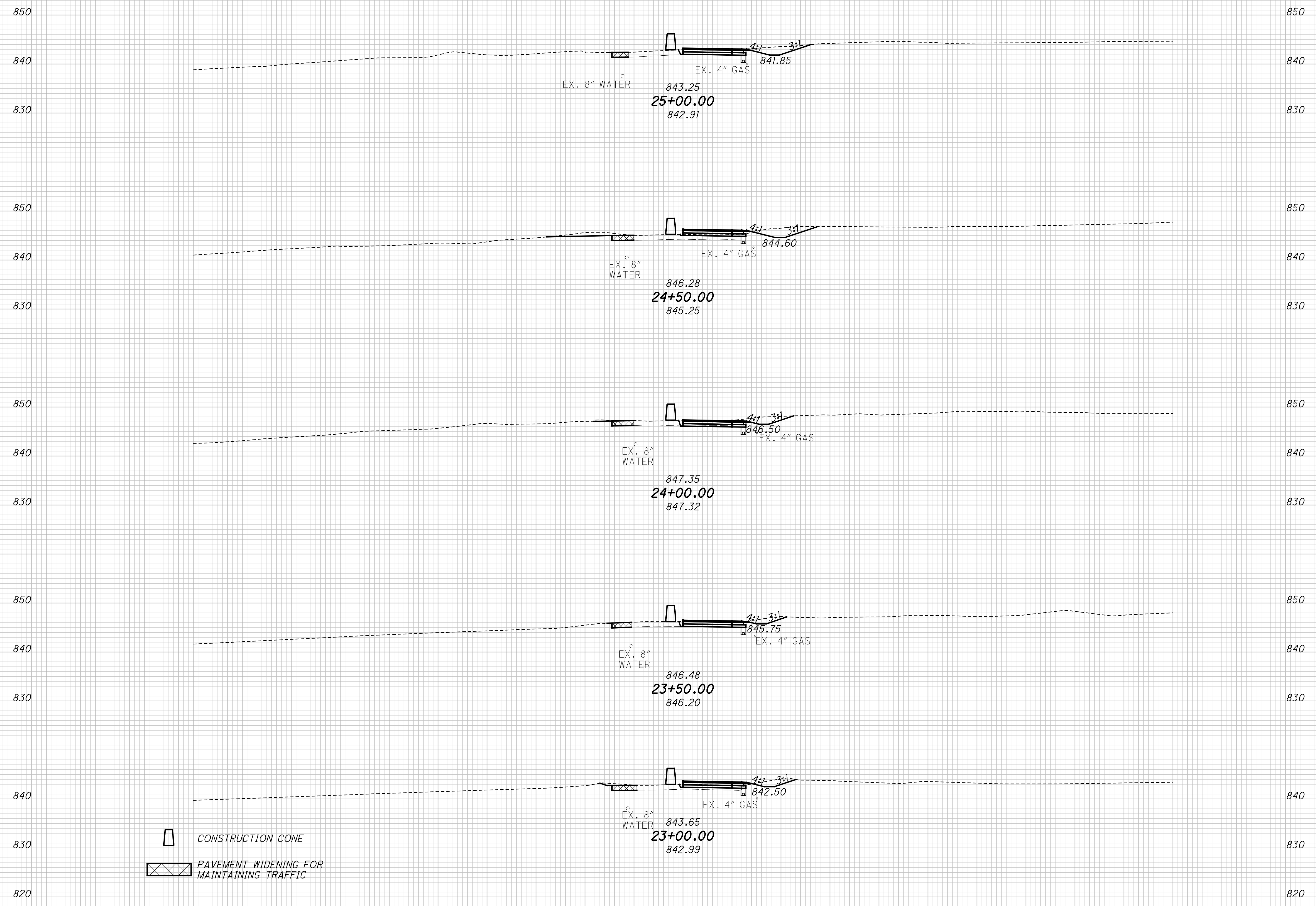
**MOT PHASE I CROSS SECTIONS**  
**STA. 20+50.00 TO STA. 22+50.00**



**HAM - TR541**

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SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
JAH  
CHECKED  
CJS



 CONSTRUCTION CONE  
 PAVEMENT WIDENING FOR MAINTAINING TRAFFIC

120 100 80 60 40 20 0 20 40 60 80 100 120

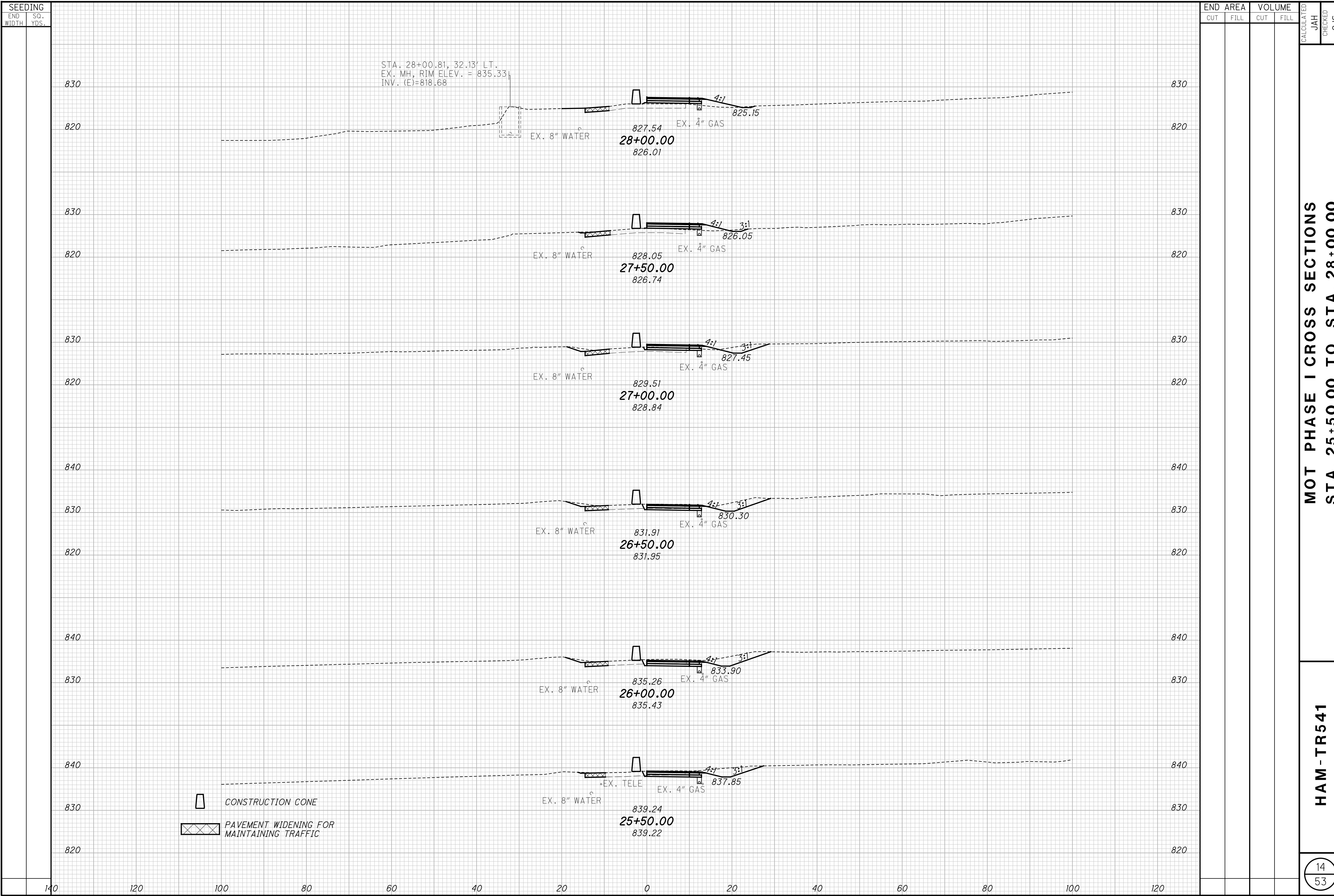
MOT PHASE I CROSS SECTIONS  
 STA. 23+00.00 TO STA. 25+00.00


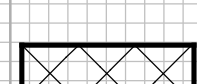
HAM - TR541

13  
53



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 CONSTRUCTION CONE  
 PAVEMENT WIDENING FOR MAINTAINING TRAFFIC

SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JAH	CJS

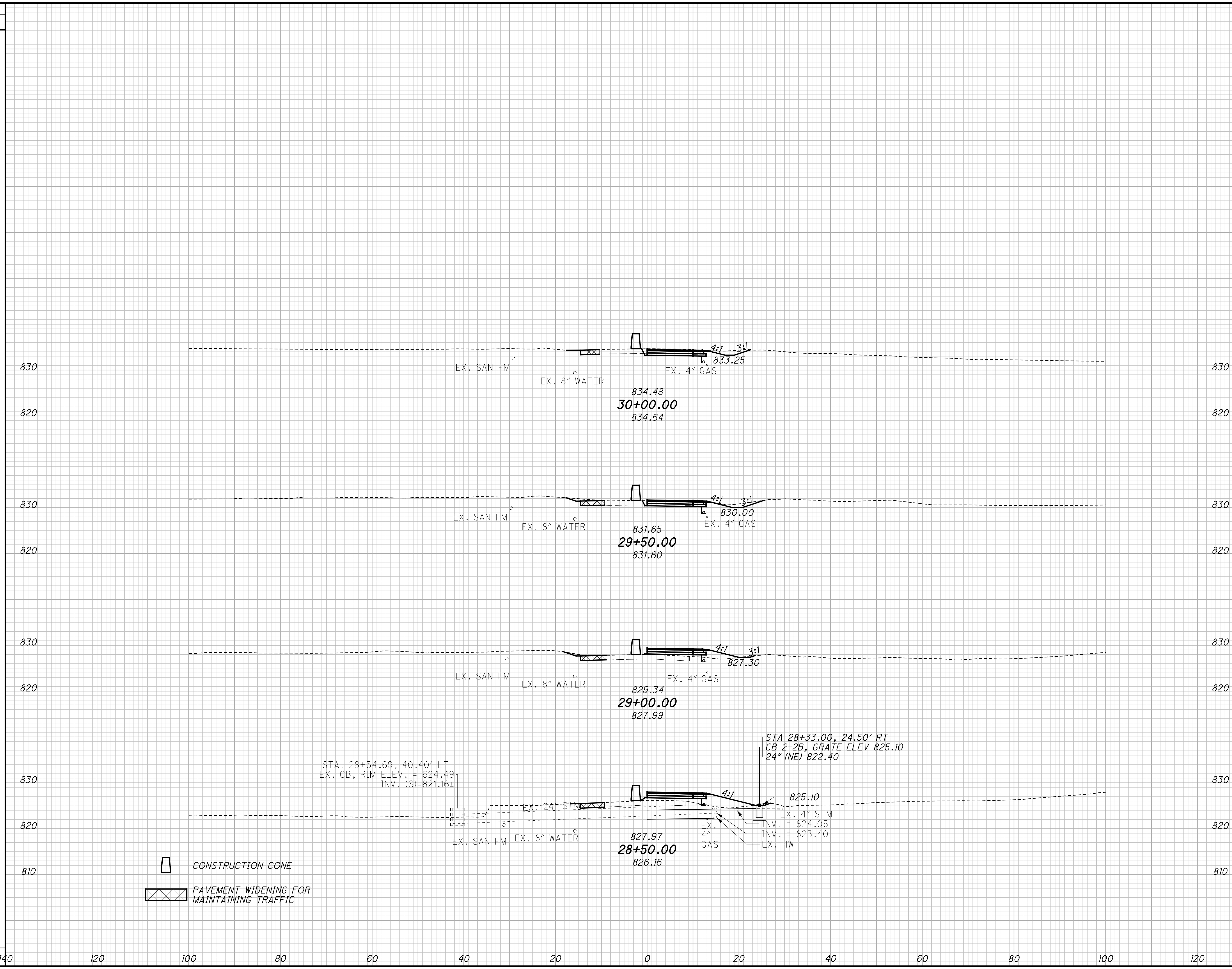
MOT PHASE I CROSS SECTIONS  
 STA. 25+50.00 TO STA. 28+00.00


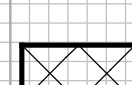
HAM - TR541

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED JAH	CHECKED CJS
CUT	FILL	CUT	FILL		

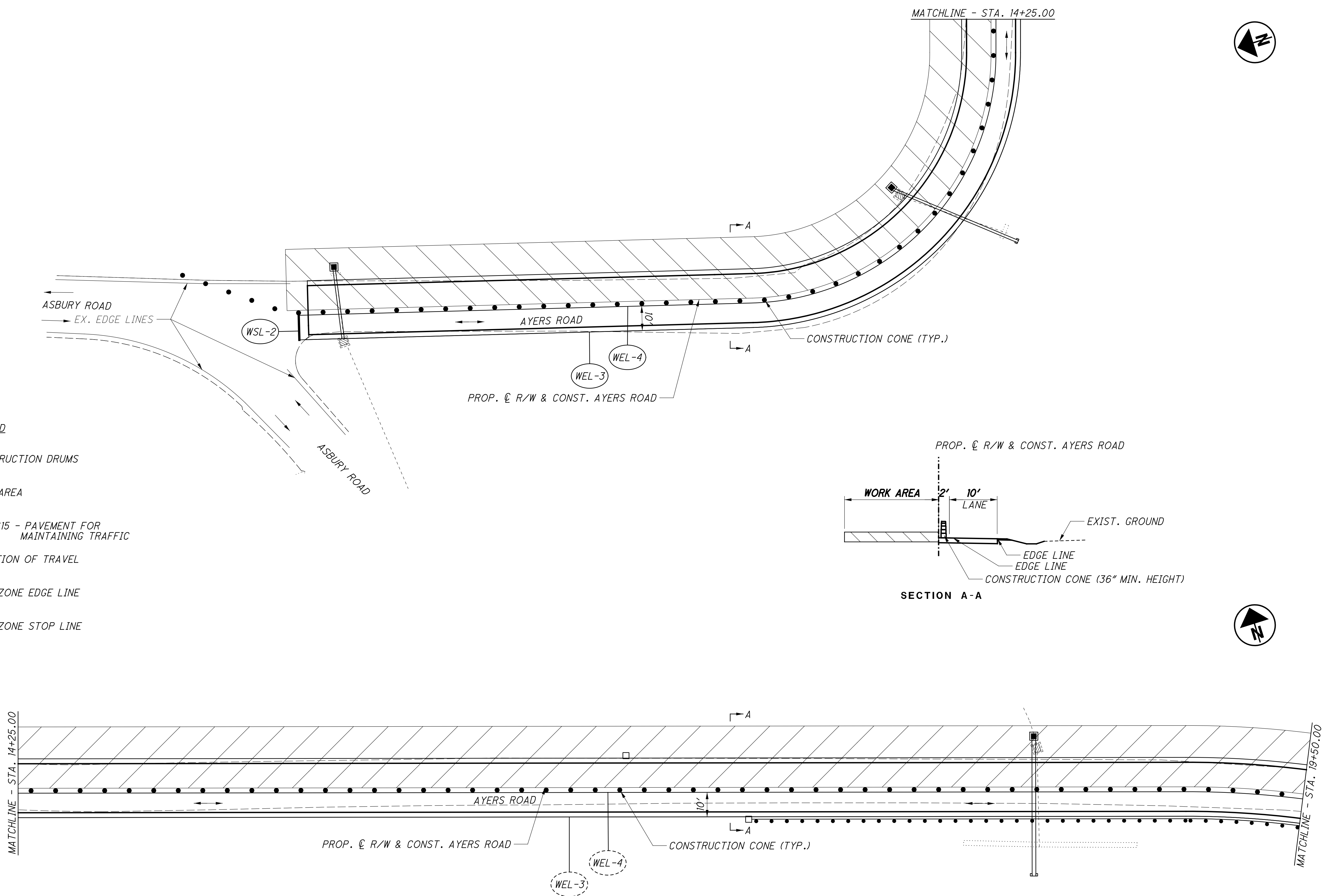


 CONSTRUCTION CONE  
 PAVEMENT WIDENING FOR MAINTAINING TRAFFIC

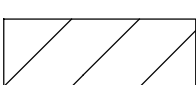
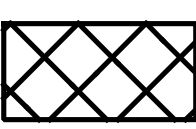
**MOT PHASE I CROSS SECTIONS  
STA. 28+50.00 TO STA. 30+00.00**

**HAM - TR541**

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**LEGEND**

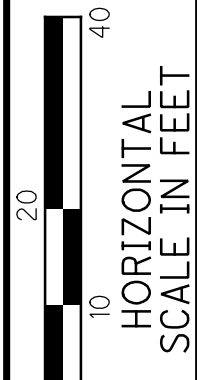
- ● ● ● CONSTRUCTION DRUMS
-  WORK AREA
-  ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC
- DIRECTION OF TRAVEL
- (WEL-X) WORK ZONE EDGE LINE
- (WSL-X) WORK ZONE STOP LINE



CALCULATED	JAH
CHECKED	CJS

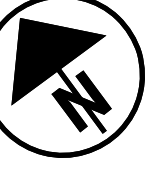
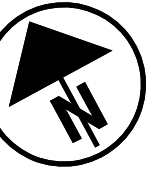
**MAINTENANCE OF TRAFFIC - PHASE II**  
**STA. 10+00.00 TO STA. 19+50.00**

**HAM-TR541**





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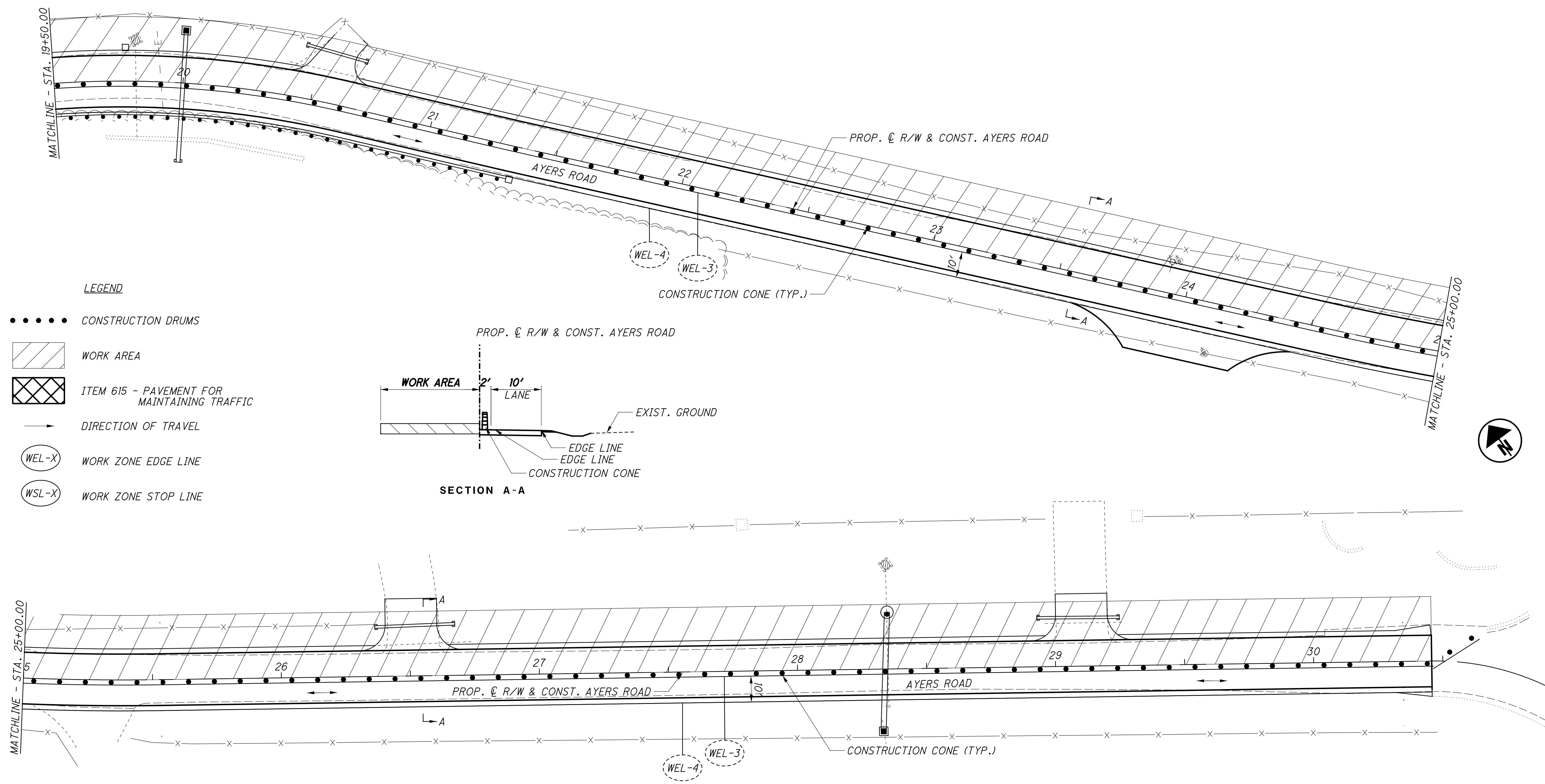
CALCULATED  
JAH  
CHECKED  
CJS

**MAINTENANCE OF TRAFFIC PHASE II**  
**STA. 19+50.00 TO STA. 30+50.00**

**HAM-TR541**

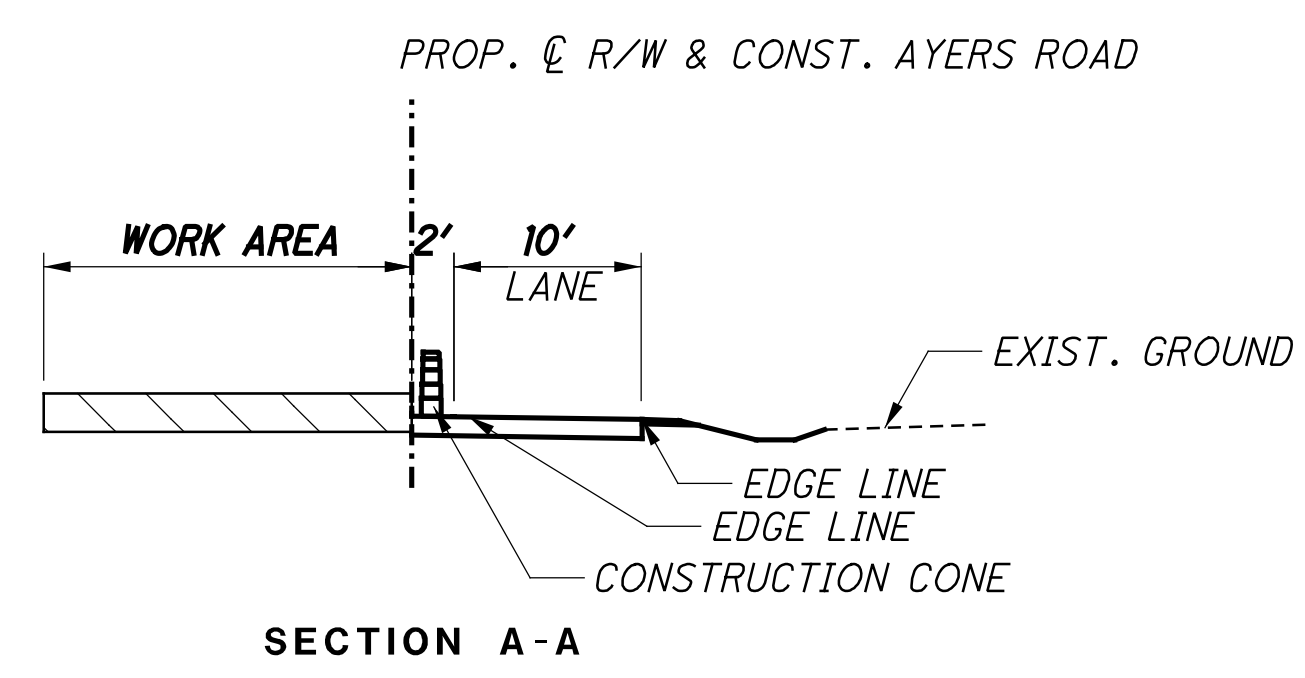
17  
53

0 10 20 40  
HORIZONTAL  
SCALE IN FEET



**LEGEND**

- CONSTRUCTION DRUMS
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC
- DIRECTION OF TRAVEL
- (WEL-X) WORK ZONE EDGE LINE
- (WSL-X) WORK ZONE STOP LINE



**SECTION A-A**

SHEET NO.	REFERENCE NO.	STATION		SIDE	611		614			615
					12" CONDUIT, TYPE B	CATCH BASIN, NO. 2-2B	WORK ZONE EDGE LINE, CLASS 1, 4" (WHITE)	WORK ZONE EDGE LINE, CLASS 1, 4" (YELLOW)	WORK ZONE STOP LINE, CLASS 1	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
					FT	EACH	MILE	MILE	FT	SY
6-7	WEL-1	10+25.00	30+89.60	LT				0.38		
6-7	WEL-2	10+25.00	30+45.75	LT			0.37			
16-17	WEL-3	10+35.00	30+45.75	RT			0.38			
16-17	WEL-4	10+35.00	30+62.80	RT				0.38		
6	WSL-1	10+25.00		LT					10	
16	WSL-2	10+35.00		RT					10	
6-7		10+00.00	26+41.25	LT						765
7		26+61.30	29+00.50	LT						147
7		29+20.50	30+45.20	LT						50
6	TD-1	10+50.00		LT	4	1				
6	TD-2	12+98.00		LT	4	1				
6	TD-3	18+40.00		LT		1				
7	TD-4	19+81.00		LT		1				
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					8	4	0.75	0.76	20	962

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SHEET NUM.										PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
4	18	21	22	27	41					01/STR/B R		EXT	TOTAL			
<b>ROADWAY</b>																
										LS	201	11000	LS		CLEARING AND GRUBBING	
		2								2	202	11004	2	EACH	STRUCTURE REMOVED	
		3								3	202	20010	3	EACH	HEADWALL REMOVED	
			4,611							4,611	202	23000	4,611	SY	PAVEMENT REMOVED	
		286								286	202	35100	286	FT	PIPE REMOVED, 24" AND UNDER	
		3								3	202	58100	3	EACH	CATCH BASIN REMOVED	
				888						888	203	10000	888	CY	EXCAVATION	
				2,703						2,703	203	20000	2,703	CY	EMBANKMENT	
			5,801							5,801	204	10000	5,801	SY	SUBGRADE COMPACTION	
										3	204	45000	3	HOUR	PROOF ROLLING	
		704								704	SPECIAL	60655000	704	FT	CABLE BARRIER	
		800								800	607	35000	800	FT	FENCE REMOVED AND REBUILT	
		413								413	609	28000	413	FT	CURB, TYPE 7	
										7	623	38500	7	EACH	MONUMENT ASSEMBLY, TYPE C	
										5	623	40500	5	EACH	REFERENCE MONUMENT	
										12	623	40520	12	EACH	RIGHT-OF-WAY MONUMENT, TYPE B	
<b>EROSION CONTROL</b>																
5,665										5,665	659	10000	5,665	SY	SEEDING AND MULCHING	
1,130										1,130	659	14000	1,130	SY	REPAIR SEEDING AND MULCHING	
4.6										4.6	659	20000	4.6	TON	COMMERCIAL FERTILIZER	
1.2										1.2	659	31000	1.2	ACRE	LIME	
150										150	659	35000	150	MGAL	WATER	
										LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
										1	832	30000	1	EACH	EROSION CONTROL	
<b>DRAINAGE</b>																
		2.1								2.1	602	20000	2.1	CY	CONCRETE MASONRY	
		3,729								3,729	605	14000	3,729	FT	6" BASE PIPE UNDERDRAINS	
		187								187	611	00510	187	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
	8	84								92	611	04400	92	FT	12" CONDUIT, TYPE B	
		82								82	611	04900	82	FT	12" CONDUIT, TYPE D	
		108								108	611	07400	108	FT	18" CONDUIT, TYPE B	
		47								47	611	10400	47	FT	24" CONDUIT, TYPE B	
	4	5								9	611	98470	9	EACH	CATCH BASIN, NO. 2-2B	
		1								1	611	98630	1	EACH	CATCH BASIN ADJUSTED TO GRADE	
		1								1	611	99574	1	EACH	MANHOLE, NO. 3	
		2								2	611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET	
<b>PAVEMENT</b>																
				927						927	301	46000	927	CY	ASPHALT CONCRETE BASE, PG64-22	
				967						967	304	20000	967	CY	AGGREGATE BASE	
				614						614	407	10000	614	GAL	TACK COAT	
				56						56	411	10000	56	CY	STABILIZED CRUSHED AGGREGATE	
				191						191	441	50000	191	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
				268						268	441	50300	268	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
<b>TRAFFIC CONTROL</b>																
					44					44	630	03100	44	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
					25					25	630	80100	25	SF	SIGN, FLAT SHEET	
					13					13	630	85100	13	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
					13					13	630	86010	13	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND REERECTION	
					0.75					0.75	644	00100	0.75	MILE	EDGE LINE, 4"	
					0.37					0.37	644	00300	0.37	MILE	CENTER LINE	
					10					10	644	00500	10	FT	STOP LINE	

CALCULATED JDF CHECKED JAH

**GENERAL SUMMARY**

**HAM - TR541**

19  
53



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SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE
5											01/STR/B R		EXT	TOTAL			NO.
<b>MAINTENANCE OF TRAFFIC</b>																	
2											2	SPECIAL	61411300	2	EACH	WORK ZONE TRAFFIC SIGNAL	
											1.51	614	22000	1.51	MILE	WORK ZONE EDGE LINE, CLASS I, 4"	
											20	614	26000	20	FT	WORK ZONE STOP LINE, CLASS I	
											962	615	25000	962	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
10											10	616	10000	10	MGAL	WATER	
<b>INCIDENTALS</b>																	
											LS	614	11000	LS		MAINTAINING TRAFFIC	
											6	619	16010	6	MNTH	FIELD OFFICE, TYPE B	
											LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS	624	10000	LS		MOBILIZATION	

CALCULATED JDF CHECKED JAH	<b>GENERAL SUMMARY</b>	<b>HAM - TR541</b>	20 53
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REF NO.	SHEET NO.	STATION		SIDE	202 - REMOVALS				602	605	606	607	609	611 - DRAINAGE											NFO. ONI			
					PIPE, 24" AND UNDER	CATCH BASIN	HEADWALL	STRUCTURE REMOVED	CONCRETE MASONRY	6" BASE PIPE UNDERDRAINS	SPECIAL CABLE BARRIER	FENCE, REMOVED AND REBUILT	CURB, TYPE 7	6", TYPE F, FOR UNDERDRAIN OUTLETS	12" CONDUIT, TYPE B	24" CONDUIT, TYPE B	18" CONDUIT, TYPE B	12" CONDUIT, TYPE D	CATCH BASIN, NO. 2-2B	MANHOLE, NO. 3	CATCH BASIN, ADJUSTED TO GRADE	PRECAST REINFORCED CONCRETE OUTLET	6" X 22.5° BEND	6" X 45° BEND	6" X 90° BEND	6" X 6" TEE		
		FROM	TO		FT	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
R-1	23	10+50.00		LT	28		1																					
R-2	23	13+00.00		LT	45	1																						
R-3	23	13+15.00		RT			1																					
R-4	24	18+41.00		LT	39	1																						
R-5	24	18+11.00	18+82.00	RT				1																				
R-6	25	19+81.00		LT	37	1																						
R-7	25	19+70.00	20+52.00	RT				1																				
R-8	25	20+39.00	20+71.00	LT	30																							
R-9	26	26+37.00	26+75.00	LT	38																							
R-10	26	28+35.00		LT/RT	38		1																					
R-11	26	28+96.00	29+27.00	LT	31																							
U-1	23	10+50.00	11+72.00	LT						123																		
U-2	23	10+55.00	11+72.00	RT						183																		
U-3	23-24	11+73.00	16+18.00	LT						277		9																
U-4	23-24	11+73.00	16+18.00	RT						296																		
U-5	23	12+93.50		RT								26									1							
U-6	24-25	16+18.00	19+17.00	LT						300		84																
U-7	24-25	16+18.00	19+17.00	RT						299																		
U-8	25	19+17.40		RT								9									1							
U-9	25	19+17.00	24+08.00	LT						492																		
U-10	25	19+17.00	24+08.00	RT						484																		
U-11	25-26	24+08.00	30+45.00	LT						636		29																
U-12	25-26	24+08.00	30+46.00	RT						639		30																
GR-1	24-25	16+75.00	19+77.00	LT							304																	
GR-2	24-25	17+25.00	21+33.00	RT						400																		
F-1	25-26	21+31.00	26+39.00	LT										505														
F-2	25-26	22+20.00	25+14.00	RT									295															
C-1	23	10+75.00	12+40.00	LT								163																
C-2	23-24	14+25.00	16+75.00	LT								250																
D-1	23	10+50.00		LT								30						1										
D-2	23	10+53.00		RT															1									
D-3	23	13+00.00	13+13.00	LT/RT				0.21				54						1										
D-4	24	18+40.00		LT/RT				0.33									57	1										
D-5	25	20+00.00		LT/RT				0.33									51	1										
D-6	25	20+45.00	20+71.00	LT				0.42										19										
D-7	26	NOT USED		RT																								
D-8	26	26+36.00	26+68.00	LT				0.42										31										
D-9	26	28+35.00		LT															1									
D-10	26	28+33.00		RT											47			1										
D-11	26	28+93.00	29+25.00	LT				0.42										32										
	23	10+60.00		RT																			1					
	23	10+58.00		LT																			1					
	23	12+93.50		RT																					1			
	25	19+17.40		LT																					1			
	25	19+17.40		RT																						1		
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					286	3	3	2	2	3729	704	800	413	187	84	47	108	82	5	1	1	2	1	1	1	3		

**ESTIMATED QUANTITIES**

**HAM - TR541**

CALCULATED  
MDS  
CHECKED  
JAH

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STATION TO STATION		SIDE	LENGTH L FT	AVERAGE WIDTH W FT	SURFACE AREA A A=LxW SF	PLANIMETERED AREAS SF	202	204	301	304	407	411	441	441					
FROM	TO						PAYMENT REMOVED SY	SUBGRADE COMPACTION SY	ASHPHALT CONCRETE BASE CY	AGGREGATE BASE CY	NON-TRACKING TACK COAT (0.055 GAL/SY) GAL	STABILIZED CRUSHED AGGREGATE CY	ASHPHALT CONCRETE SURFACE COURSE CY	ASHPHALT CONCRETE INTERMEDIATE COURSE CY					
FROM	TO	SIDE	LENGTH L FT	AVERAGE WIDTH W FT	SURFACE AREA A A=LxW SF	PLANIMETERED AREAS SF	202 PAYMENT REMOVED SY	204 SUBGRADE COMPACTION SY	301 ASHPHALT CONCRETE BASE CY	304 AGGREGATE BASE CY	407 TACK COAT (0.055 GAL/SY) GAL	411 STABILIZED CRUSHED AGGREGATE CY	441 ASHPHALT CONCRETE SURFACE COURSE CY	441 ASHPHALT CONCRETE INTERMEDIATE COURSE CY					
10+39.00	14+25.00	CL	386	24	9264	7782	865				113		36	50					
10+39.00	14+25.00	CL	386	24.5	9457				175										
10+39.00	14+25.00	CL	386	25	9650			1072		179									
10+39.00	14+25.00	LT/RT	772	1.5	1158							11							
14+25.00	19+00.00	CL	475	24	11400	8838	982				139		44	62					
14+25.00	19+00.00	CL	475	24.5	11638				216										
14+25.00	19+00.00	CL	475	25	11875			1319		220									
14+25.00	19+00.00	LT/RT	950	1.5	1425							13							
19+00.00	25+00.00	CL	600	24	14400	12137	1349				176		56	78					
19+00.00	25+00.00	CL	600	24.5	14700				272										
19+00.00	25+00.00	CL	600	25	15000			1667		278									
19+00.00	25+00.00	LT/RT	1200	1.5	1800							17							
25+00.00	30+45.76	CL	545.76	24	13098	10366	1152				160		51	71					
25+00.00	30+45.76	CL	545.76	24.5	13371				248										
25+00.00	30+45.76	CL	545.76	25	13644			1516		253									
25+00.00	30+45.76	LT/RT	1091.52	1.5	1637							15							
20+39.00	20+74.00	LT				305	34	34		6	4		1	2					
26+30.00	26+70.00	LT				443	49	49		8	5		2	2					
28+90.00	29+30.00	LT				405	45	45		8	5		2	2					
ROAD APPROACH	24+01	RT				889	99	99	16	16	11		1	2					
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>							4574	5801	927	967	614	56	191	268					

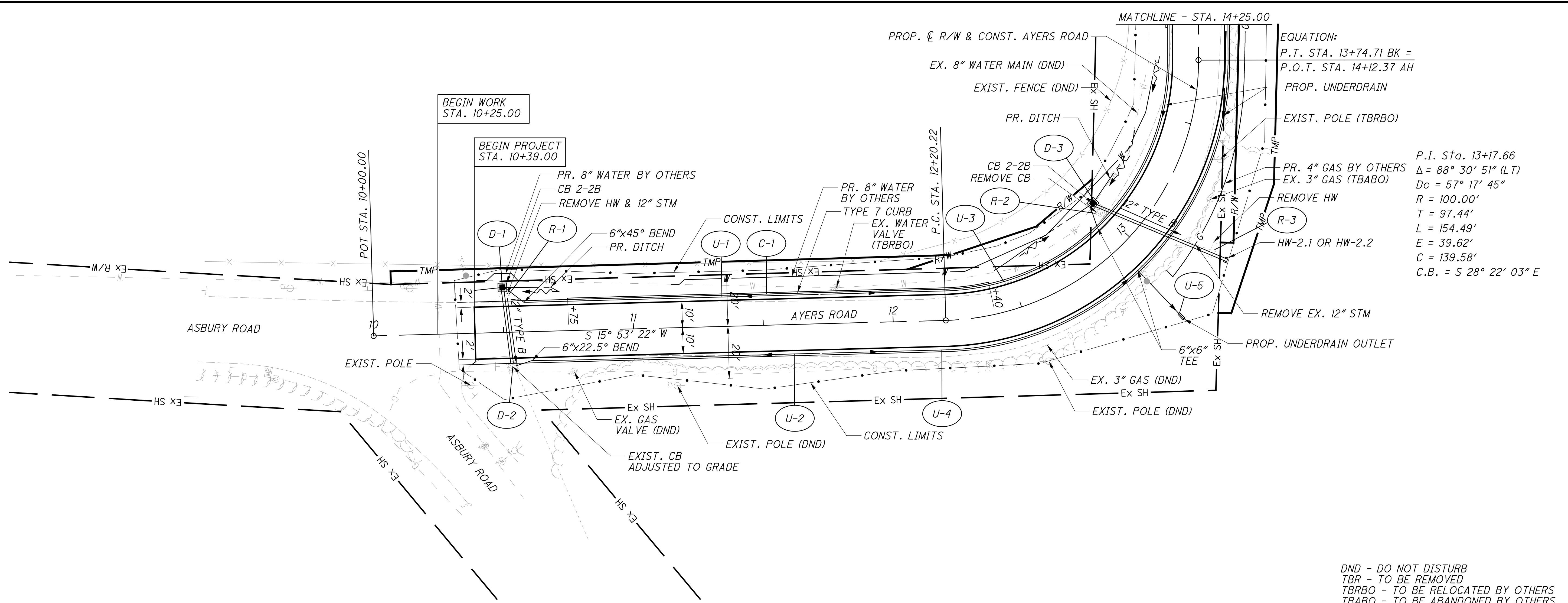
CALCULATED  
MDS  
CHECKED  
JAH

**PAVEMENT CALCULATIONS**

**HAM - TR541**



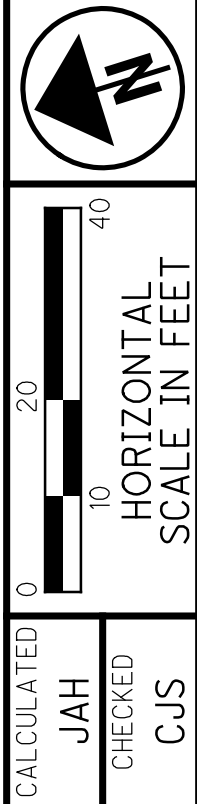
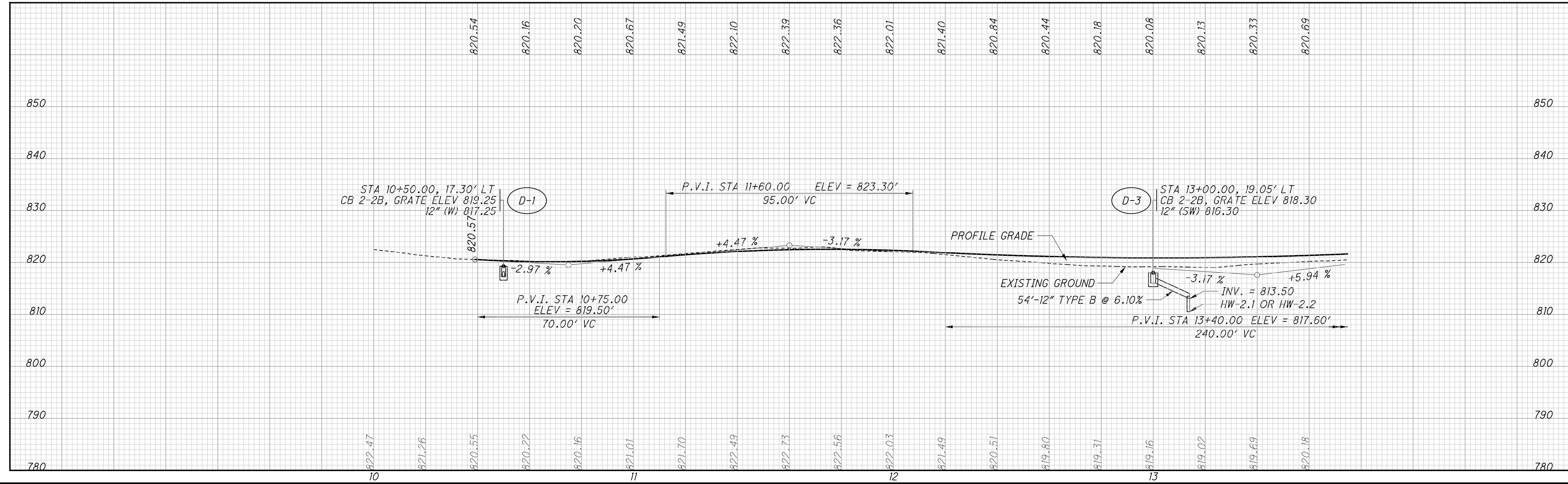
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EQUATION:  
 P.T. STA. 13+74.71 BK =  
 P.O.T. STA. 14+12.37 AH  
 PROP. UNDERDRAIN  
 EXIST. POLE (TBRBO)  
 PR. 4" GAS BY OTHERS  
 EX. 3" GAS (TBABO)  
 REMOVE HW  
 HW-2.1 OR HW-2.2  
 REMOVE EX. 12" STM  
 PROP. UNDERDRAIN OUTLET  
 EX. 3" GAS (DND)  
 Ex SH  
 EXIST. POLE (DND)

P.I. Sta. 13+17.66  
 $\Delta = 88^\circ 30' 51''$  (LT)  
 $D_c = 57^\circ 17' 45''$   
 $R = 100.00'$   
 $T = 97.44'$   
 $L = 154.49'$   
 $E = 39.62'$   
 $C = 139.58'$   
 $C.B. = S 28^\circ 22' 03'' E$

DND - DO NOT DISTURB  
 TBR - TO BE REMOVED  
 TBRBO - TO BE RELOCATED BY OTHERS  
 TBABO - TO BE ABANDONED BY OTHERS

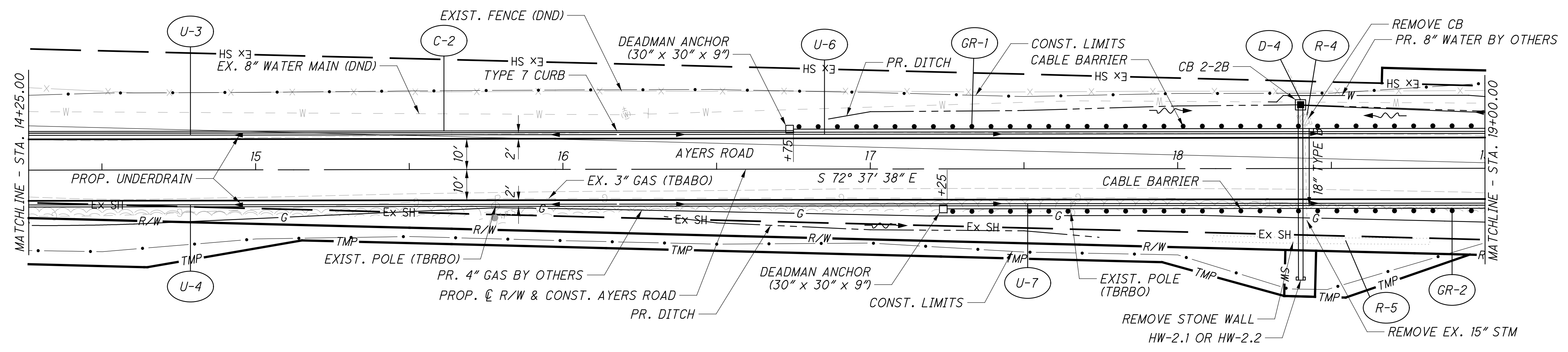


CALCULATED JAH  
 CHECKED CJS

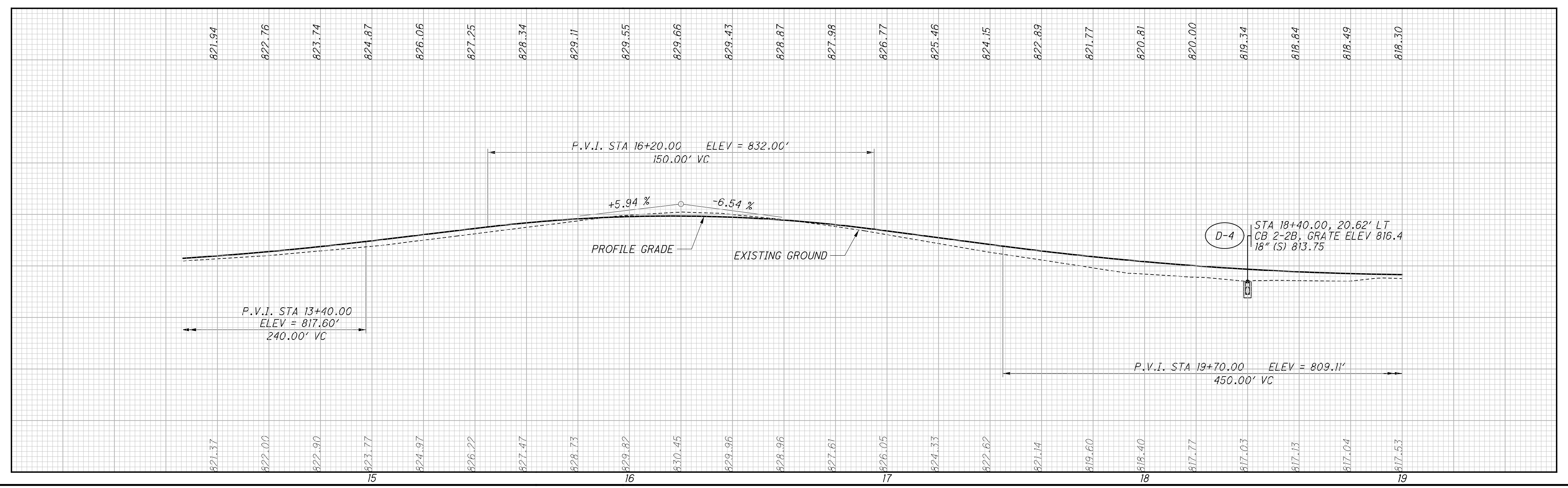
PLAN AND PROFILE  
 STA. 10+00.00 TO STA. 14+25.00

HAM - TR541

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DND - DO NOT DISTURB  
 TBR - TO BE REMOVED  
 TBRBO - TO BE RELOCATED BY OTHERS  
 TBABO - TO BE ABANDONED BY OTHERS

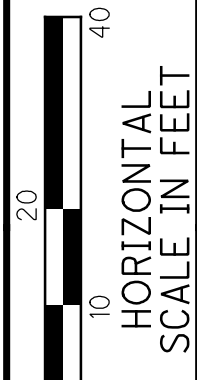
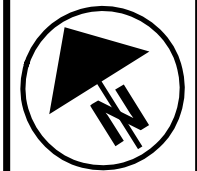


CALCULATED JAH  
 CHECKED CJS

0 10 20 40  
 HORIZONTAL SCALE IN FEET

**PLAN AND PROFILE**  
**STA. 14+25.00 TO STA. 19+00.00**

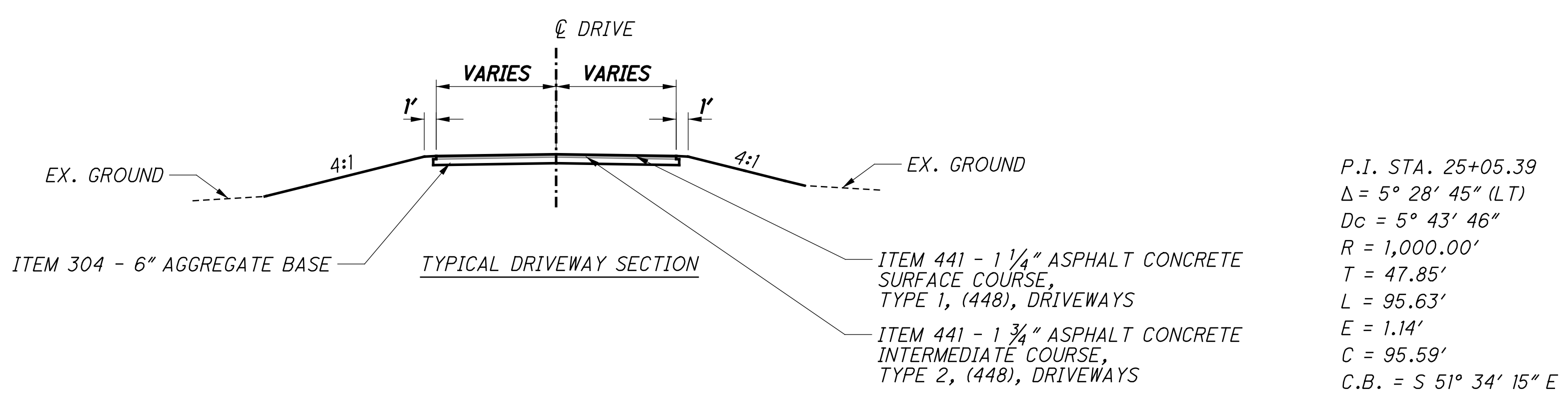




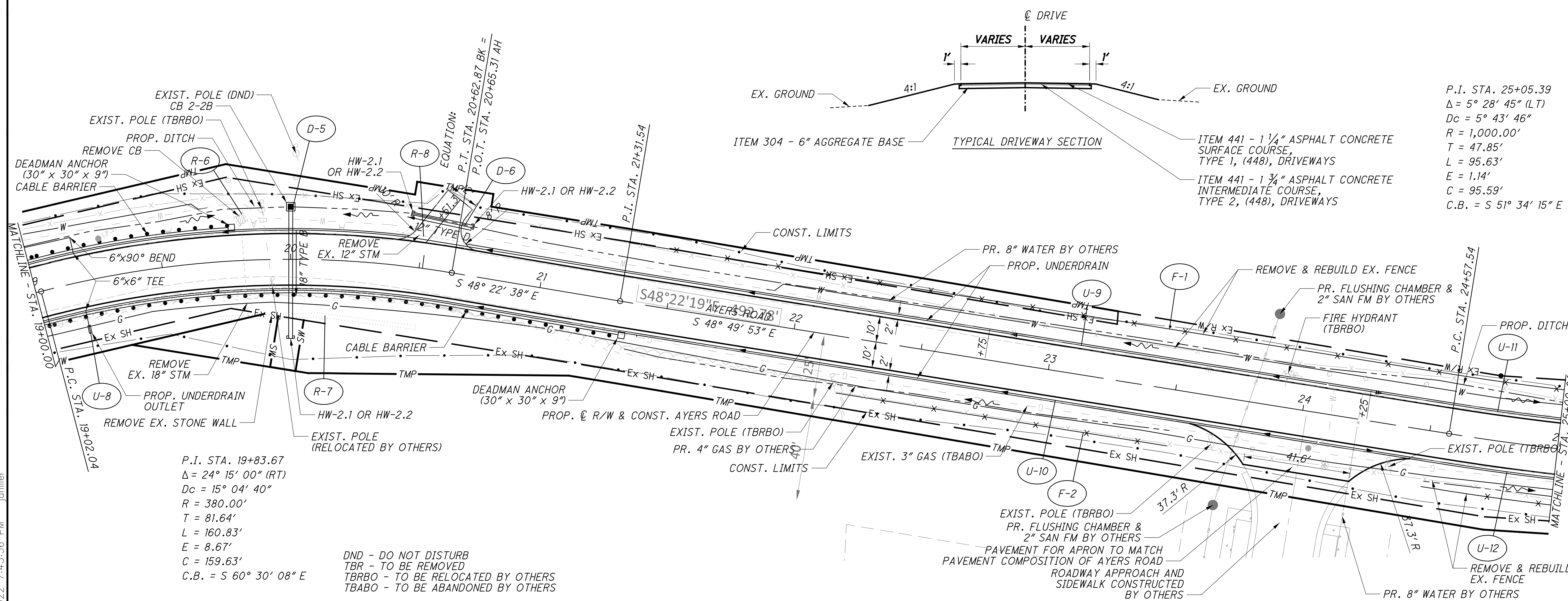
CALCULATED JAH  
CHECKED CJS

PLAN AND PROFILE  
STA. 19+00.00 TO STA. 25+00.00

HAM-TR541

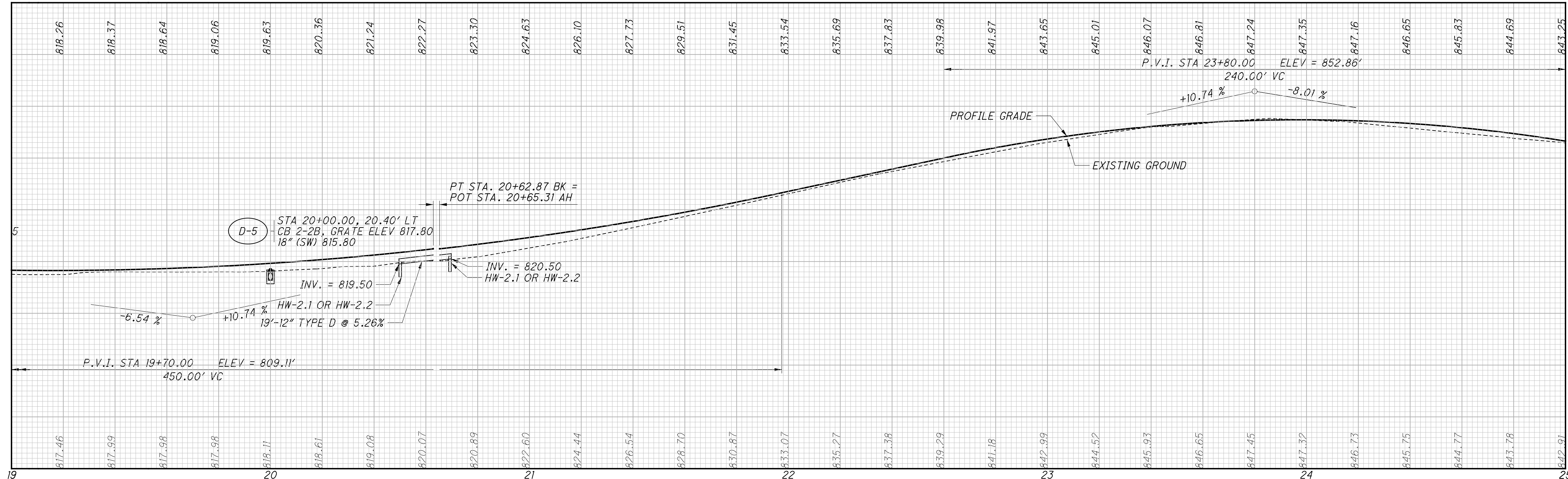


P.I. STA. 25+05.39  
 $\Delta = 5^\circ 28' 45''$  (LT)  
 $Dc = 5^\circ 43' 46''$   
 $R = 1,000.00'$   
 $T = 47.85'$   
 $L = 95.63'$   
 $E = 1.14'$   
 $C = 95.59'$   
 $C.B. = S 51^\circ 34' 15'' E$



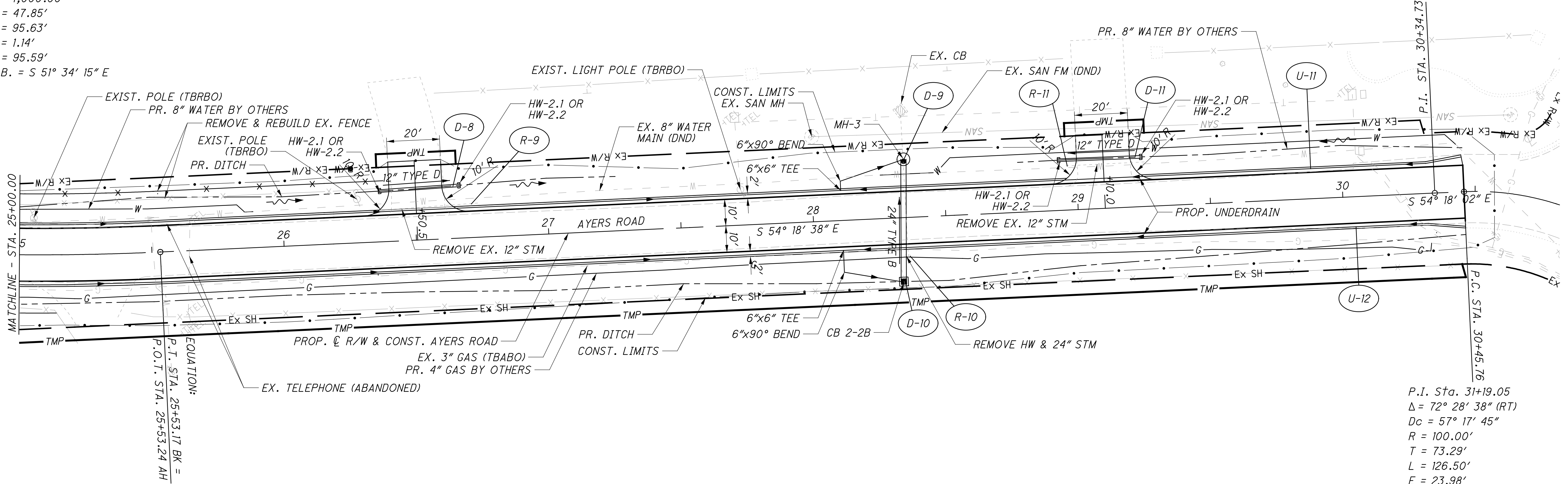
P.I. STA. 19+83.67  
 $\Delta = 24^\circ 15' 00''$  (RT)  
 $Dc = 15^\circ 04' 40''$   
 $R = 380.00'$   
 $T = 81.64'$   
 $L = 160.83'$   
 $E = 8.67'$   
 $C = 159.63'$   
 $C.B. = S 60^\circ 30' 08'' E$

DND - DO NOT DISTURB  
 TBR - TO BE REMOVED  
 TBRBO - TO BE RELOCATED BY OTHERS  
 TBABO - TO BE ABANDONED BY OTHERS



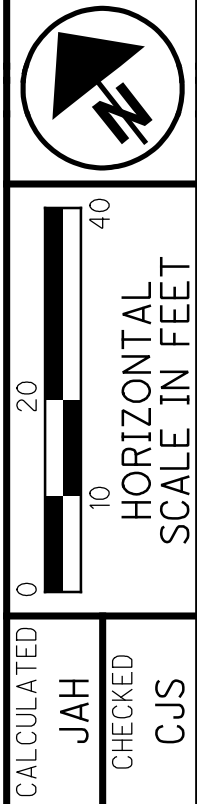
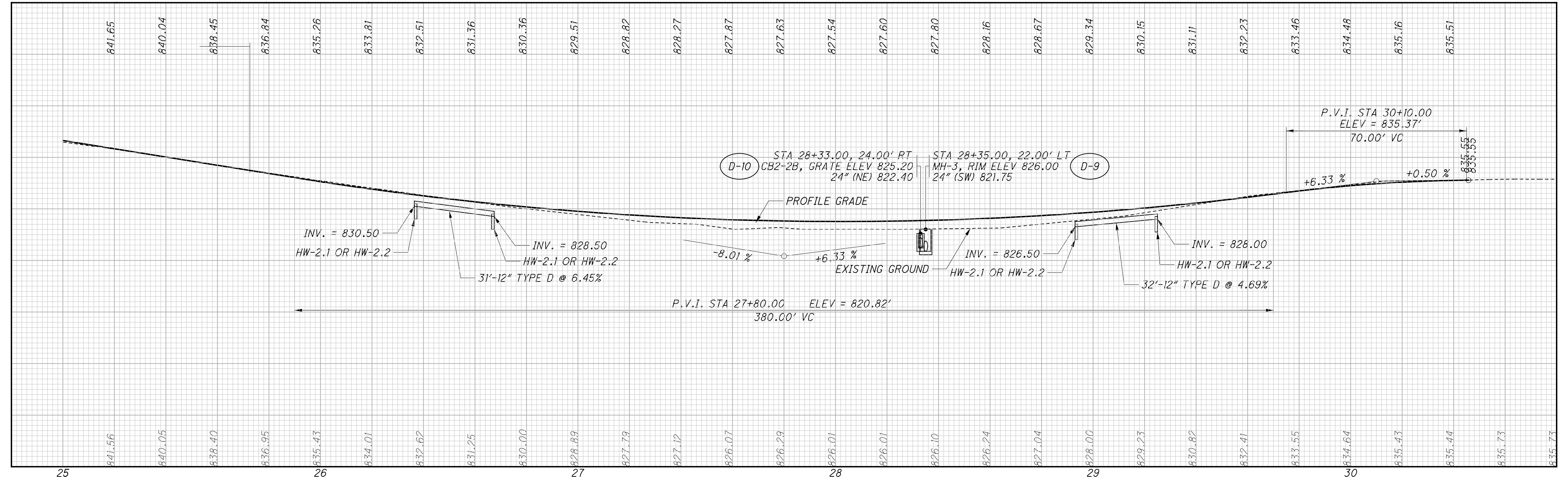
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P.I. Sta. 25+05.39  
 $\Delta = 5^\circ 28' 45''$  (LT)  
 $D_c = 5^\circ 43' 46''$   
 $R = 1,000.00'$   
 $T = 47.85'$   
 $L = 95.63'$   
 $E = 1.14'$   
 $C = 95.59'$   
 $C.B. = S 51^\circ 34' 15'' E$



P.I. Sta. 31+19.05  
 $\Delta = 72^\circ 28' 38''$  (RT)  
 $D_c = 57^\circ 17' 45''$   
 $R = 100.00'$   
 $T = 73.29'$   
 $L = 126.50'$   
 $E = 23.98'$   
 $C = 118.23'$   
 $C.B. = S 18^\circ 03' 43'' E$

DND - DO NOT DISTURB  
 TBR - TO BE REMOVED  
 TBRBO - TO BE RELOCATED BY OTHERS  
 TBABO - TO BE ABANDONED BY OTHERS



CALCULATED  
 JAH  
 CHECKED  
 CJS

PLAN AND PROFILE  
 STA. 25+00.00 TO STA. 30+50.00

HAM-TR541

26  
 53

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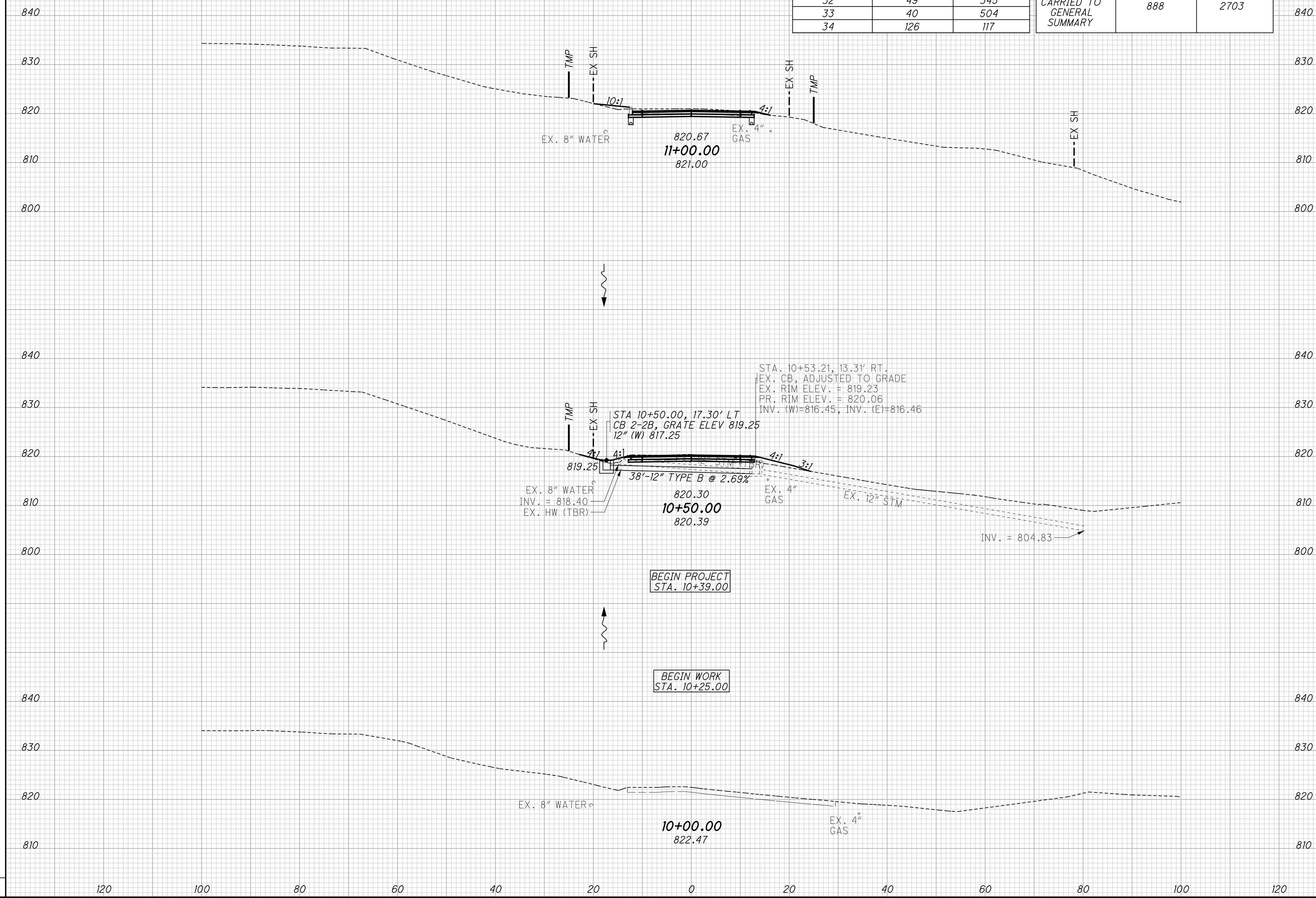
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SEEDING	
END WIDTH	SO. YDS.

EARTHWORK SUBSUMMARY		
QUANTITIES FROM SHEET NO.	ITEM 203	
	EXCAVATION	EMBANKMENT
27	55	85
28	50	99
29	14	151
30	56	156
31	43	631
32	49	345
33	40	504
34	126	117

EARTHWORK SUBSUMMARY		
QUANTITIES FROM SHEET NO.	ITEM 203	
	EXCAVATION	EMBANKMENT
35	89	88
36	224	82
37	70	308
38	72	137
TOTALS CARRIED TO GENERAL SUMMARY	888	2703

END AREA	VOLUME	CALCULATED	CHECKED	CJS
17	21	33	39	
7	29	22	46	
55	85	27	53	

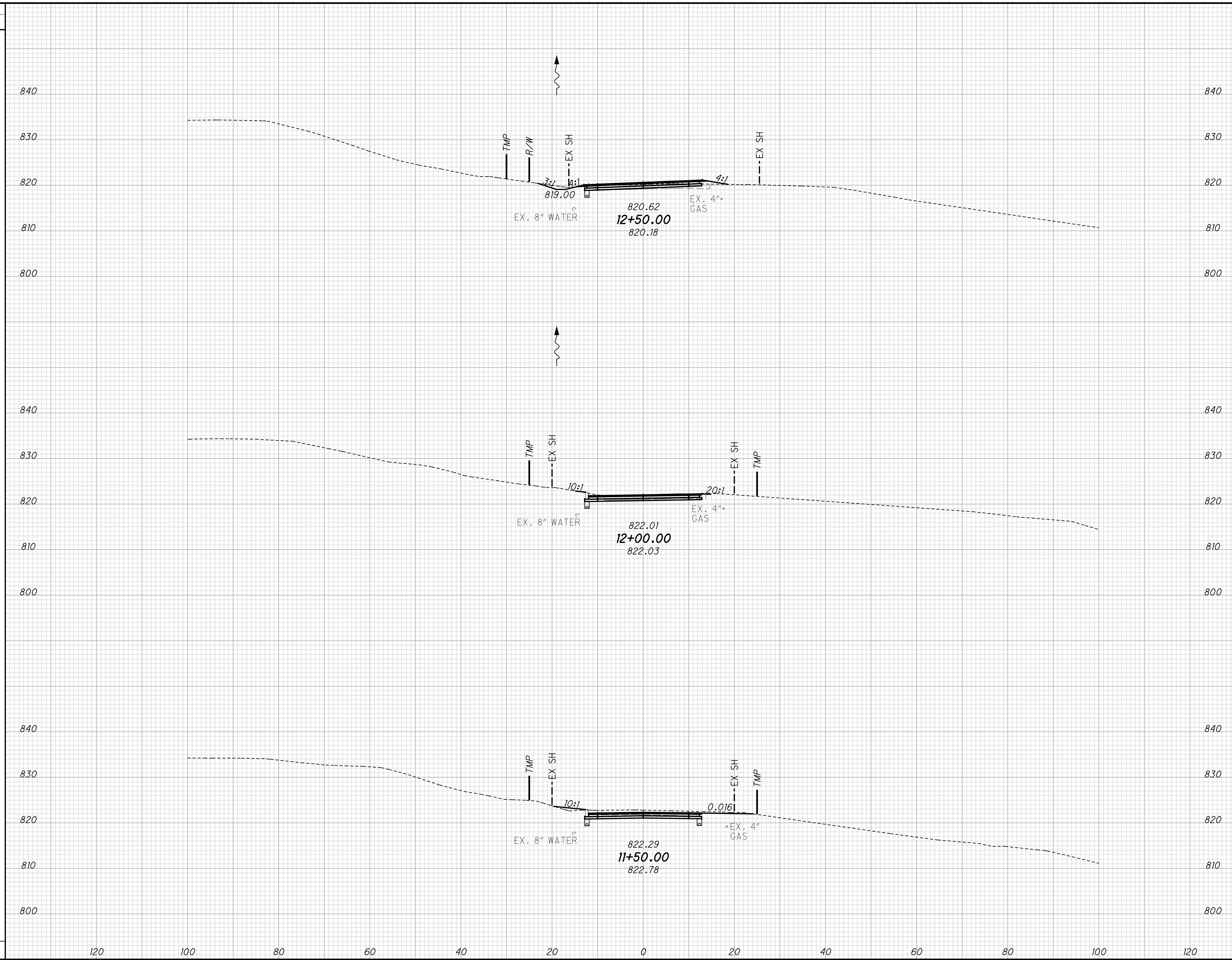


**CROSS SECTIONS - AYERS ROAD  
STA. 10+00.00 TO STA. 11+00.00**

**HAM-TR553**

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SEEDING	
END WIDTH	SO. YDS.



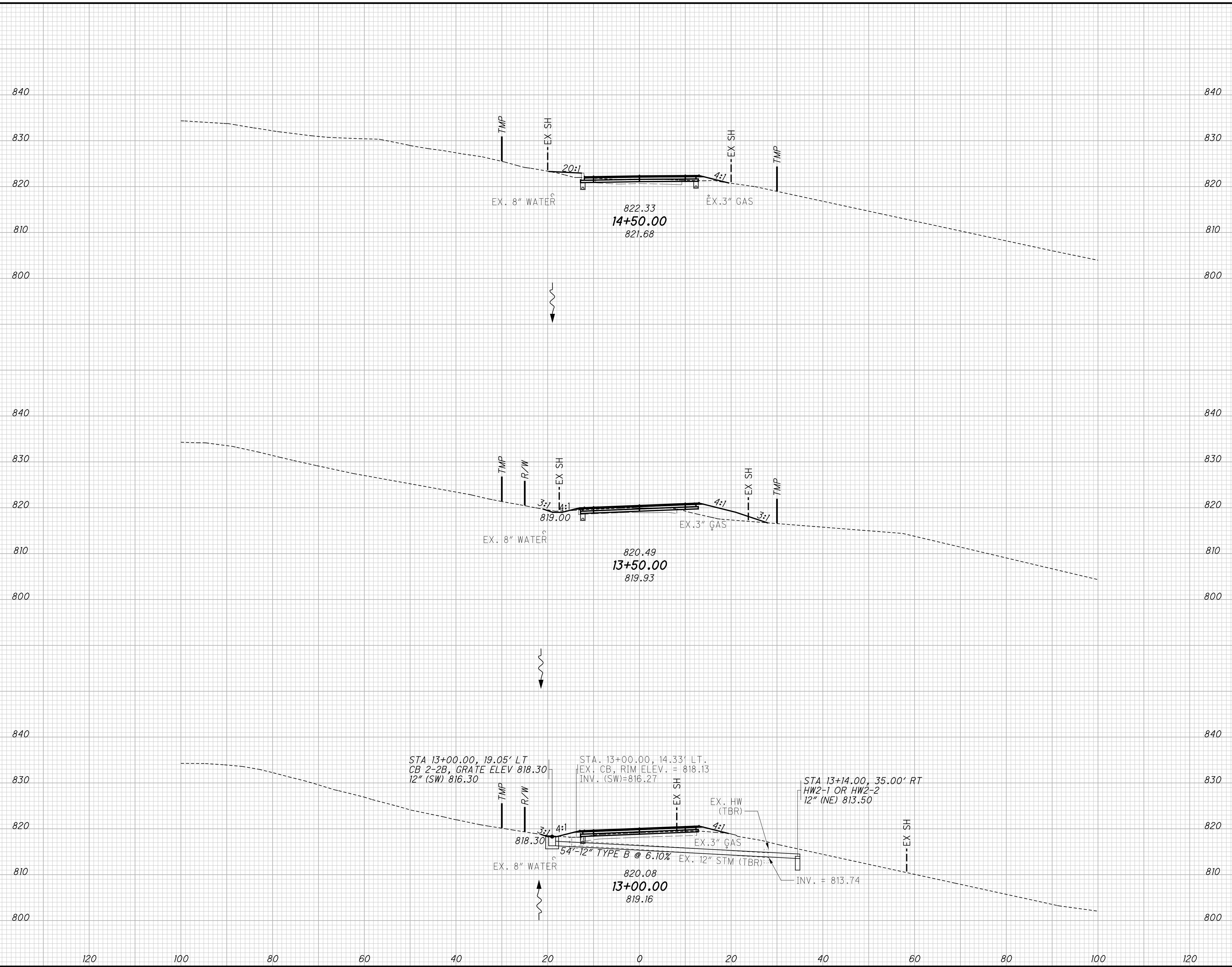
END STA.	AREA		VOLUME		CALCULATED JAH	CHECKED CJS
	CUT	FILL	CUT	FILL		
12+50.00	4	7	5	45		
12+00.00	13	15	16	21		
11+50.00	19	21	29	33		
TOTAL	36	43	50	99		

**CROSS SECTIONS - AYERS ROAD  
STA. 11+50.00 TO STA. 12+50.00**

**HAM-TR553**

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SEEDING  
END SO.  
WIDTH YDS.



END AREA	VOLUME		CALCULATED JAH	CHECKED CJS
	CUT	FILL		
4	30	6	60	
1	11	6	48	
2	49	1	42	
14	157	29	53	

CROSS SECTIONS - AYERS ROAD  
 STA. 13+00.00 TO STA. 14+50.00

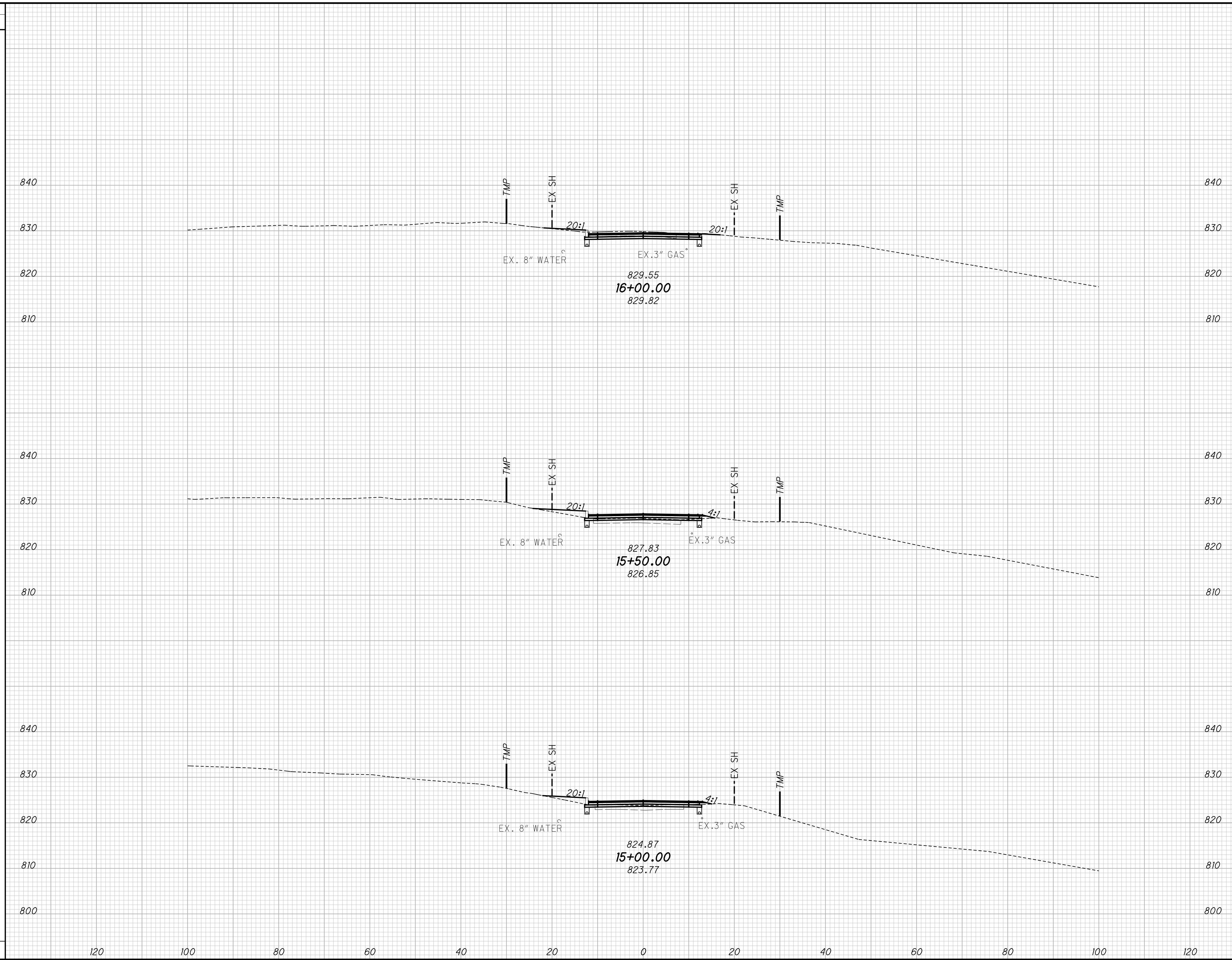
HAM-TR553

29  
53



Z:\2017\170652\CAD\OD0T\111111\Design\Roadway\Sheets\98581\_XS001.dgn Sheet 4 8/30/2022 7:43:58 PM jchiller

SEEDING	
END WIDTH	SO. YDS.



END AREA	VOLUME	CALCULATED	CHECKED	CJS
15	18	35	34	
2	39	16	53	
3	35	5	69	
		56	156	

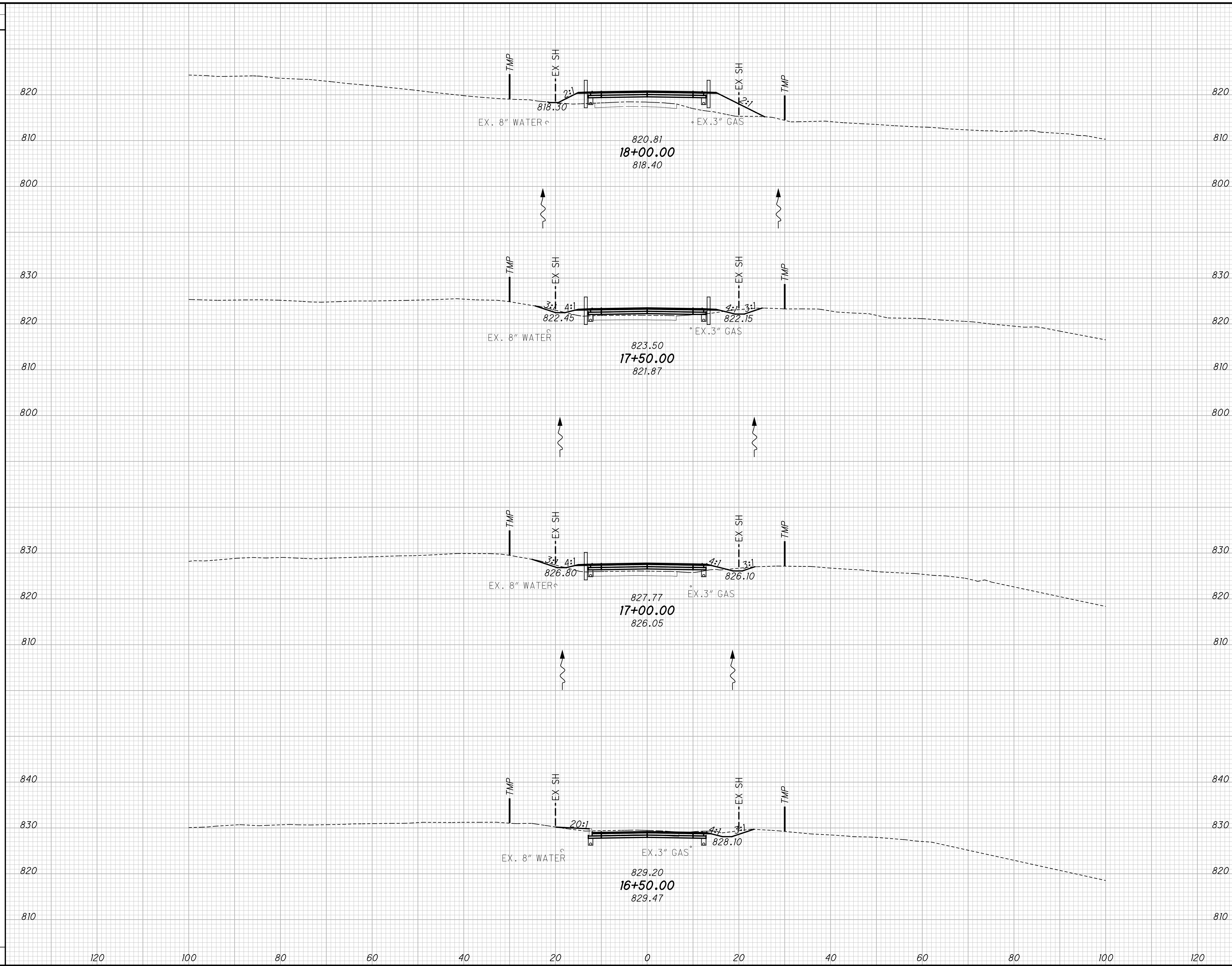
**CROSS SECTIONS - AYERS ROAD  
STA. 15+00.00 TO STA. 16+00.00**

**HAM-TR553**

30  
53

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SEEDING	
END WIDTH	SO. YDS.
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	



END AREA	VOLUME	CALCULATED	CHECKED		
				CUT	FILL
0	279				
0	129				
7	165				
8	49				
11	108				
4	67				
25	79				
23	18				
43	631				

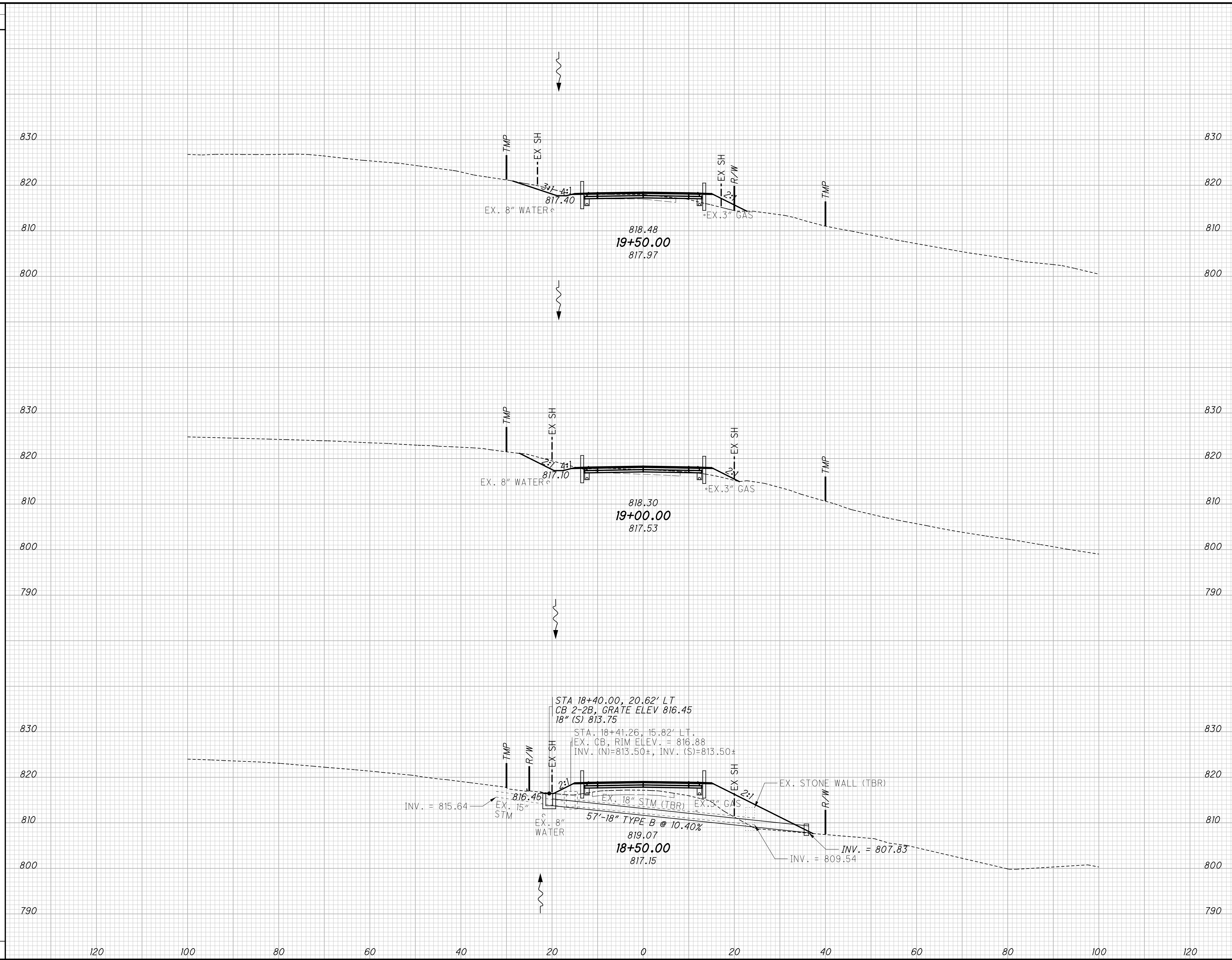
**CROSS SECTIONS - AYERS ROAD  
STA. 16+50.00 TO STA. 18+00.00**

**HAM-TR553**

31  
53

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SEEDING	
END WIDTH	SO. YDS.



END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
10	6	10	127	
16	29	24	32	
0	173	15	186	
		49	345	

**CROSS SECTIONS - AYERS ROAD  
STA. 18+50.00 TO STA. 19+50.00**

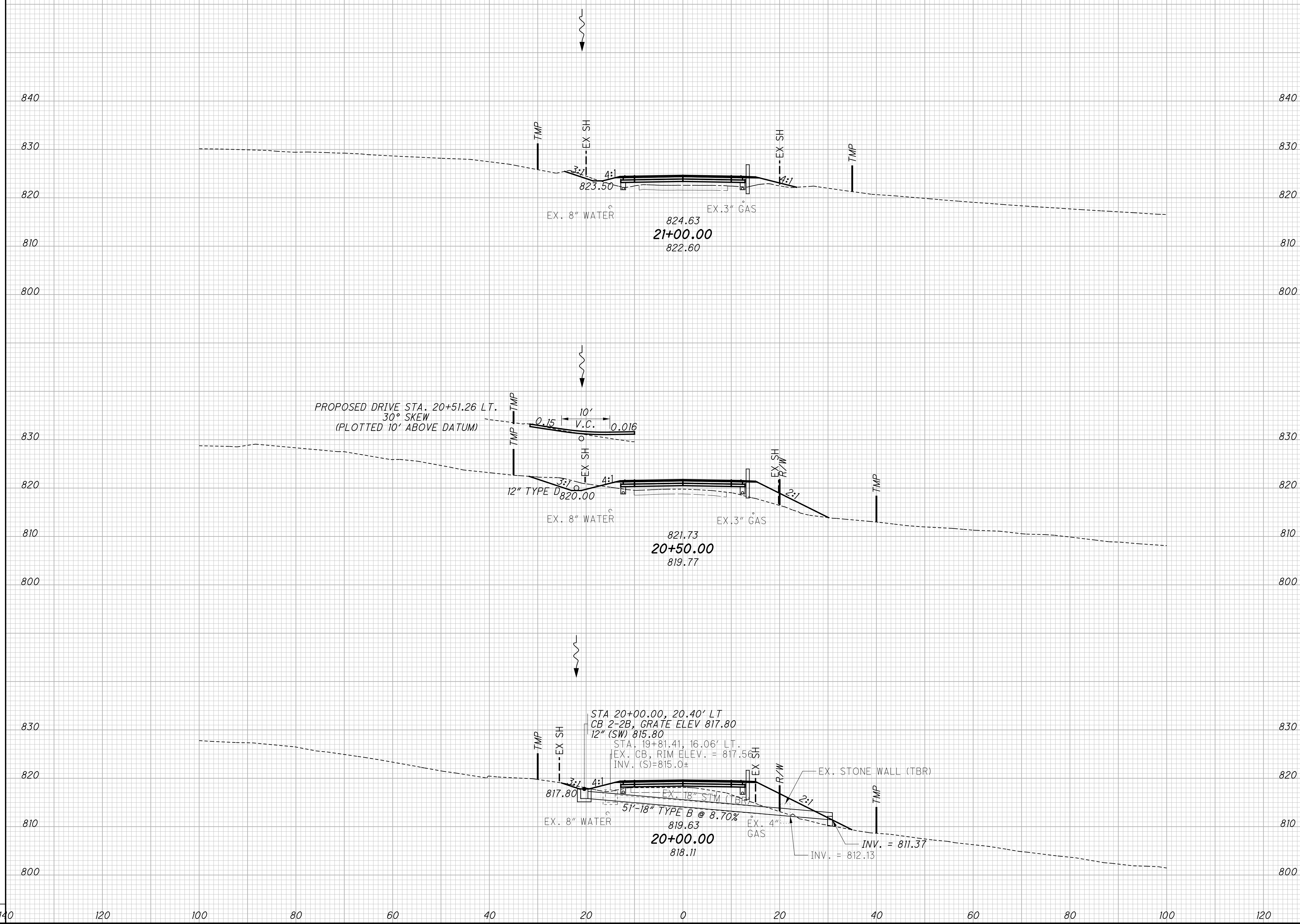
**HAM-TR553**

32  
53

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SEEDING

END WIDTH	SO. YDS.
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	



END AREA	VOLUME	
	CUT	FILL
3	82	107
17	112	171
2	131	226
	40	504

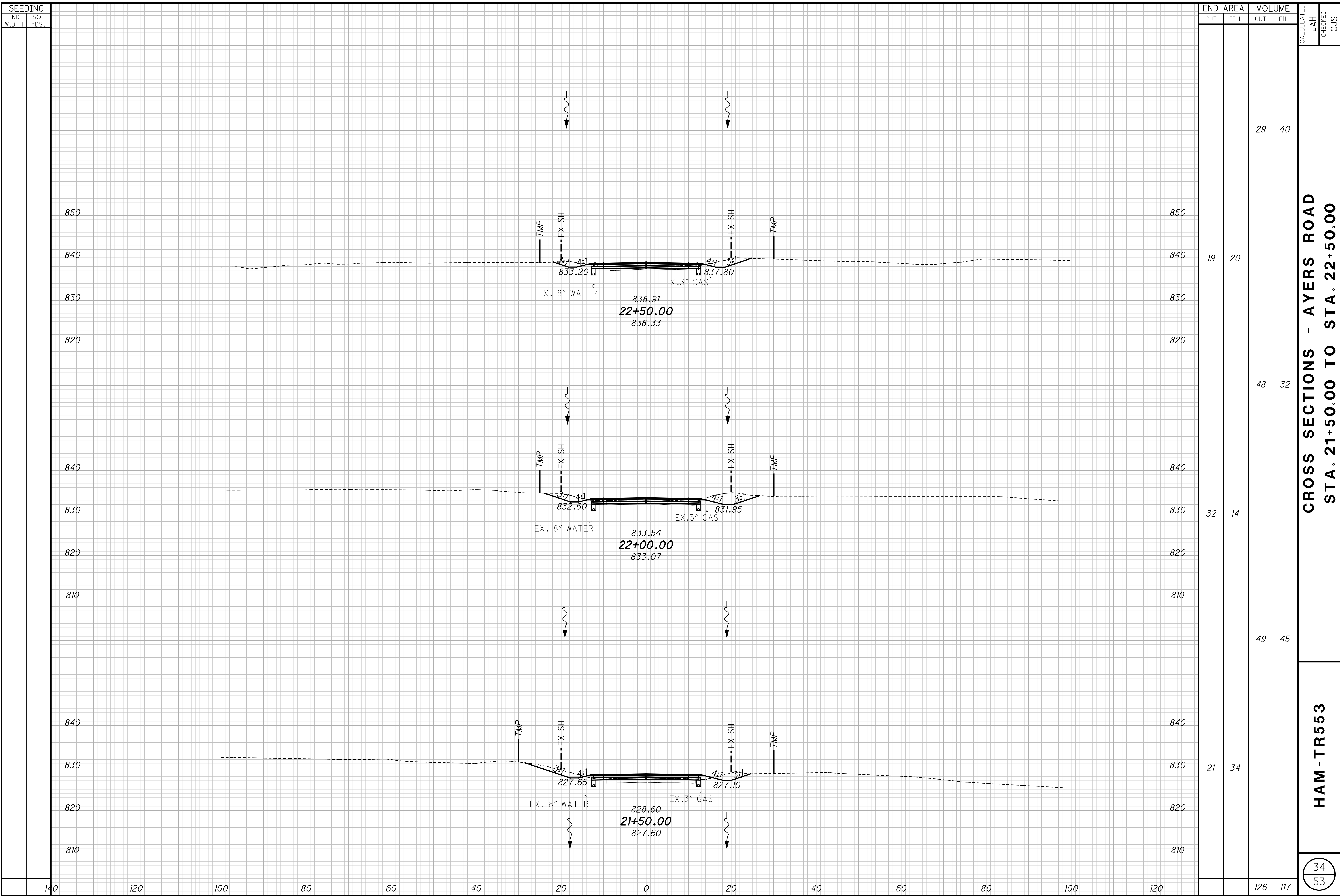
CROSS SECTIONS - AYERS ROAD  
 STA. 20+00.00 TO STA. 21+00.00

CALCULATED JAH  
 CHECKED CJS

HAM-TR553

33  
53

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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JAH	CJS
		19	20	29	40		
		32	14	48	32		
		21	34	49	45		
				126	117		

**CROSS SECTIONS - AYERS ROAD  
STA. 21+50.00 TO STA. 22+50.00**

**HAM-TR553**

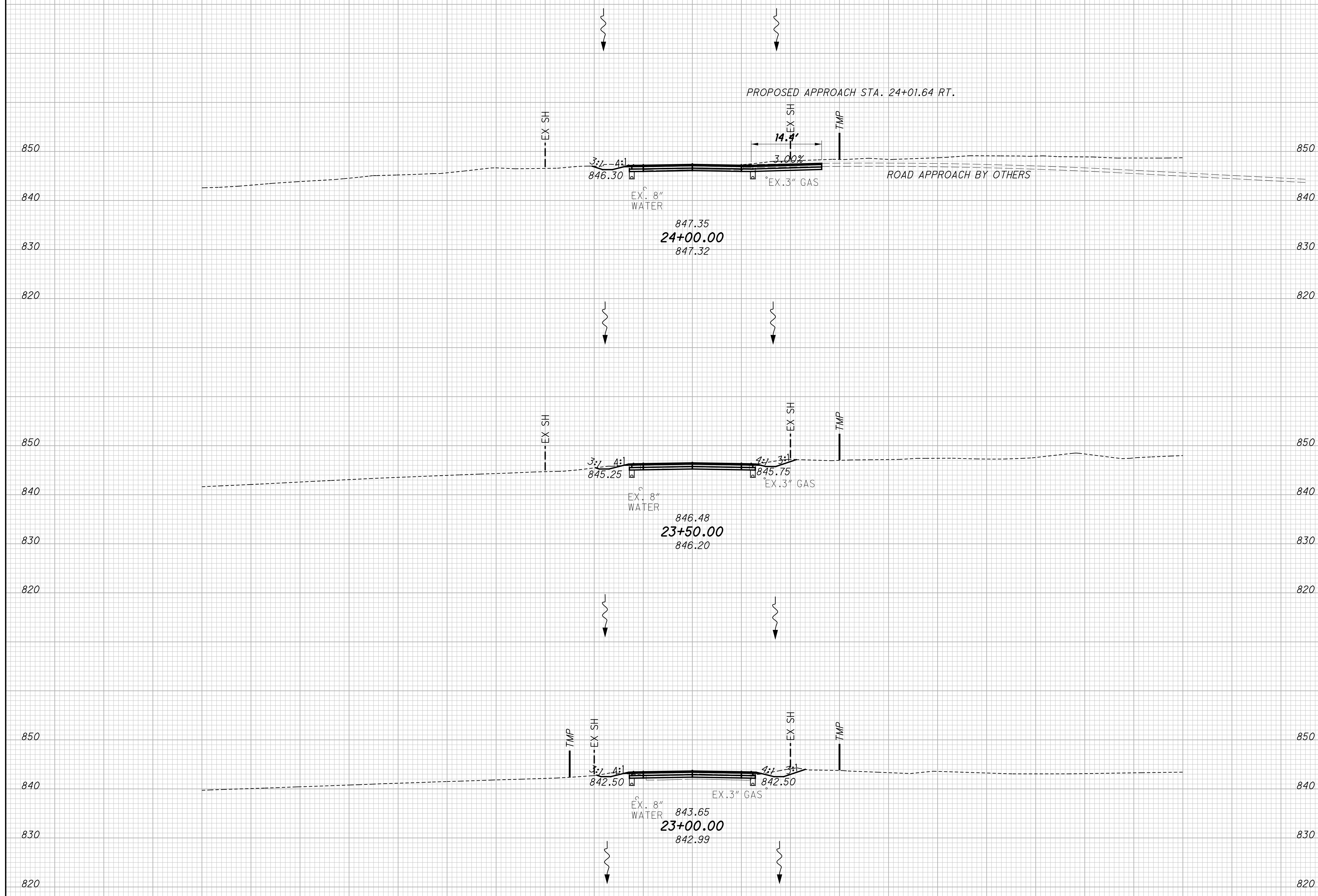
34  
53



Z:\2017\170652\CAD\OD0T\111111\Design\Roadway\Sheets\98581\_XS001.dgn Sheet 9 8/30/2022 7:44:01 PM jahiller

SEEDING

END WIDTH	SO. YDS.
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	



END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
21		15	40	46
29			29	17
10		3	20	25
12		24	89	88

CROSS SECTIONS - AYERS ROAD  
STA. 23+00.00 TO STA. 24+00.00

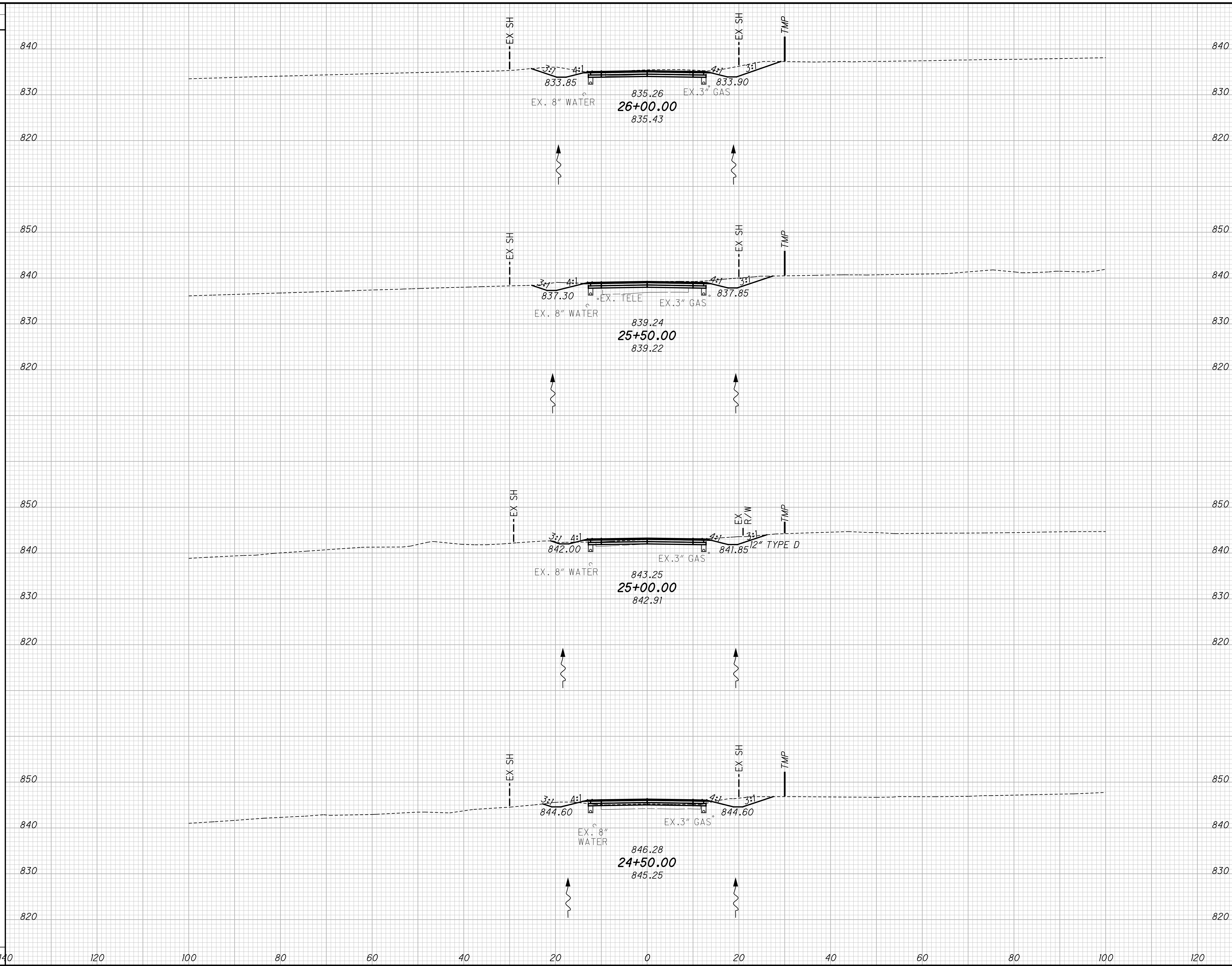
HAM-TR553

35  
53

CALCULATED  
JAH  
CHECKED  
CJS

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SEEDING	
END WIDTH	SO. YDS.
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	



END STA	AREA		VOLUME		CALCULATED JAH	CHECKED CJS
	CUT	FILL	CUT	FILL		
840			69	14		
830	48	15				
820			75	15		
850						
840						
830	33	1				
820			45	11		
850						
840	16	11				
830						
820			35	42		
850						
840	22	35				
830						
820						
224			224	82		

**CROSS SECTIONS - AYERS ROAD  
STA. 24+50.00 TO STA. 26+00.00**

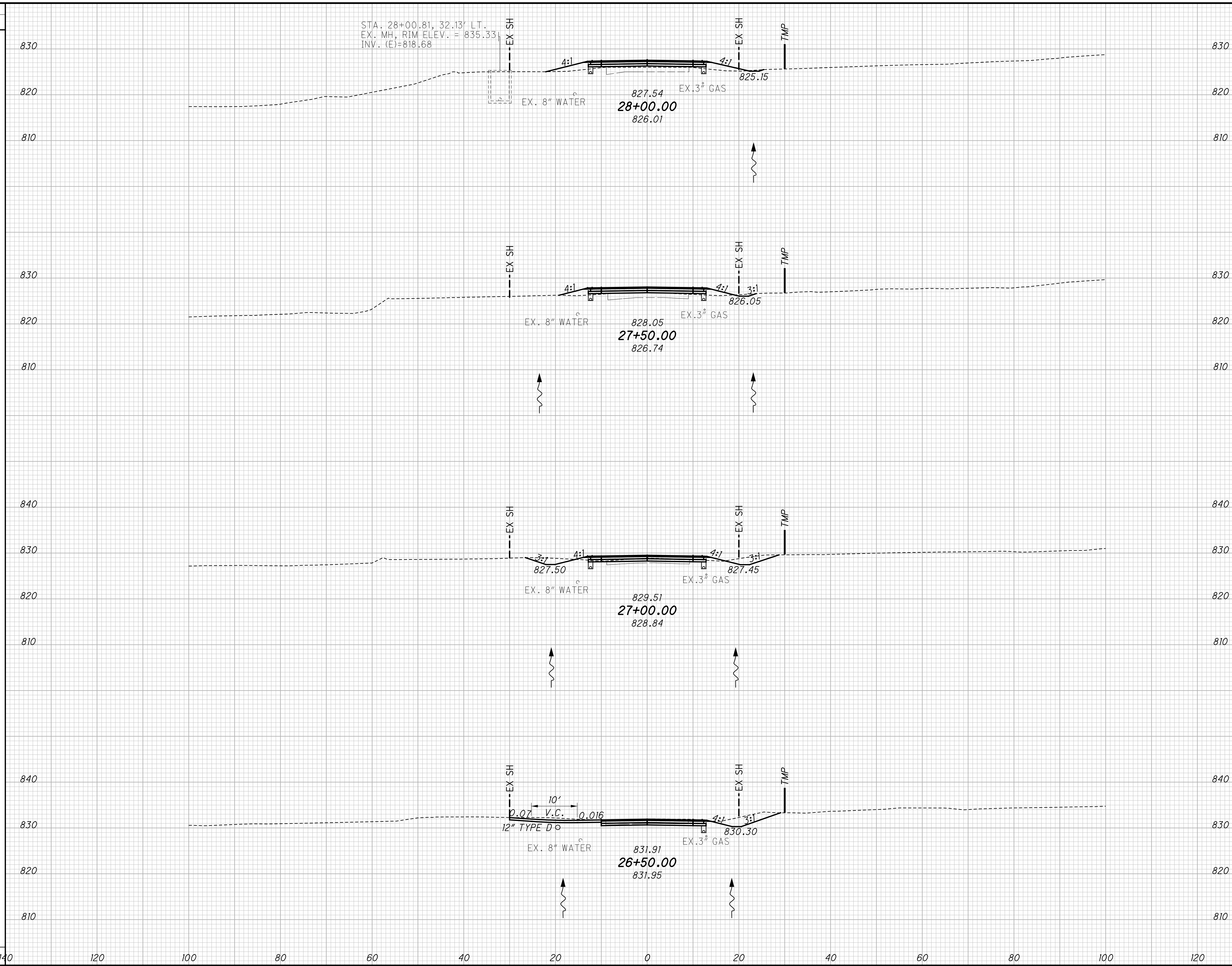
**HAM-TR553**

36  
53

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SEEDING

END WIDTH	SO. YDS.
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	



STA. 28+00.81, 32.13' LT.  
EX. MH, RIM ELEV. = 835.33  
INV. (E)=818.68

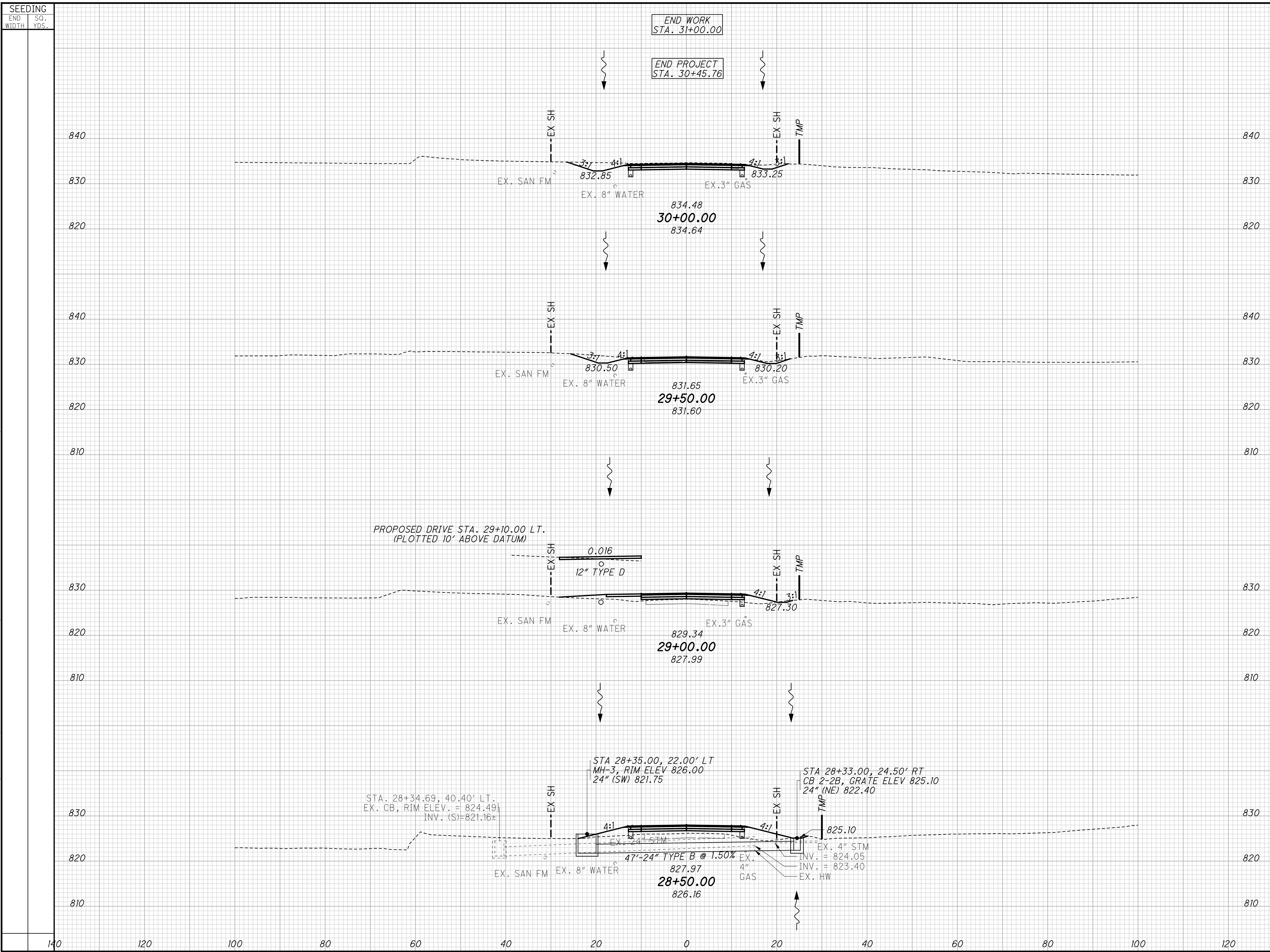
END AREA	VOLUME	CALCULATED	CHECKED				
				CUT	FILL	CUT	FILL
1	73	1	154				
2	85						
1	19						
22	43						
23	28						
45	26						
26	1						
				70	308		

CROSS SECTIONS - AYERS ROAD  
STA. 26+50.00 TO STA. 28+00.00

HAM-TR553

37  
53

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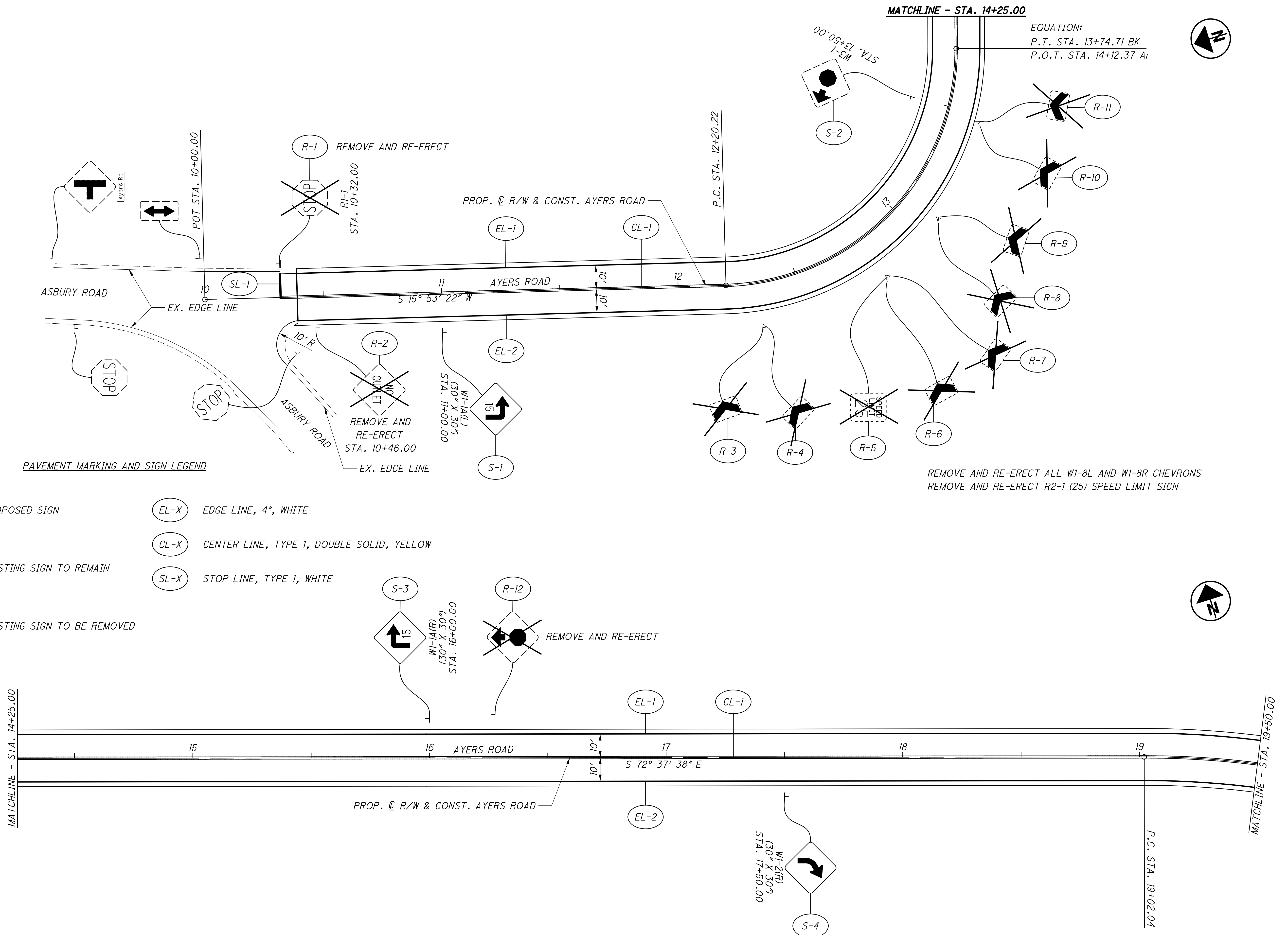
END AREA	VOLUME	CALCULATED	
		CUT	FILL
32	18	50	17
22	1	21	17
1	18	1	103
1	93	72	137

**CROSS SECTIONS - AYERS ROAD  
 STA. 28+50.00 TO STA. 30+00.00**

**HAM-TR553**

38  
53

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MATCHLINE - STA. 14+25.00

EQUATION:  
 P.T. STA. 13+74.71 BK  
 P.O.T. STA. 14+12.37 A1

PAVEMENT MARKING AND SIGN LEGEND

- PROPOSED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- EDGE LINE, 4", WHITE
- CENTER LINE, TYPE 1, DOUBLE SOLID, YELLOW
- STOP LINE, TYPE 1, WHITE

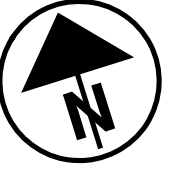
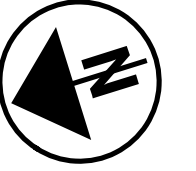
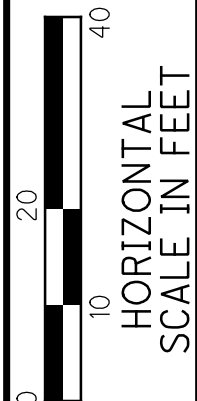
REMOVE AND RE-ERECT ALL W1-8L AND W1-8R CHEVRONS  
 REMOVE AND RE-ERECT R2-1 (25) SPEED LIMIT SIGN

SIGNING AND PAVEMENT MARKING PLAN  
 STA. 10+00.00 TO STA. 19+50.00

HAM-TR541

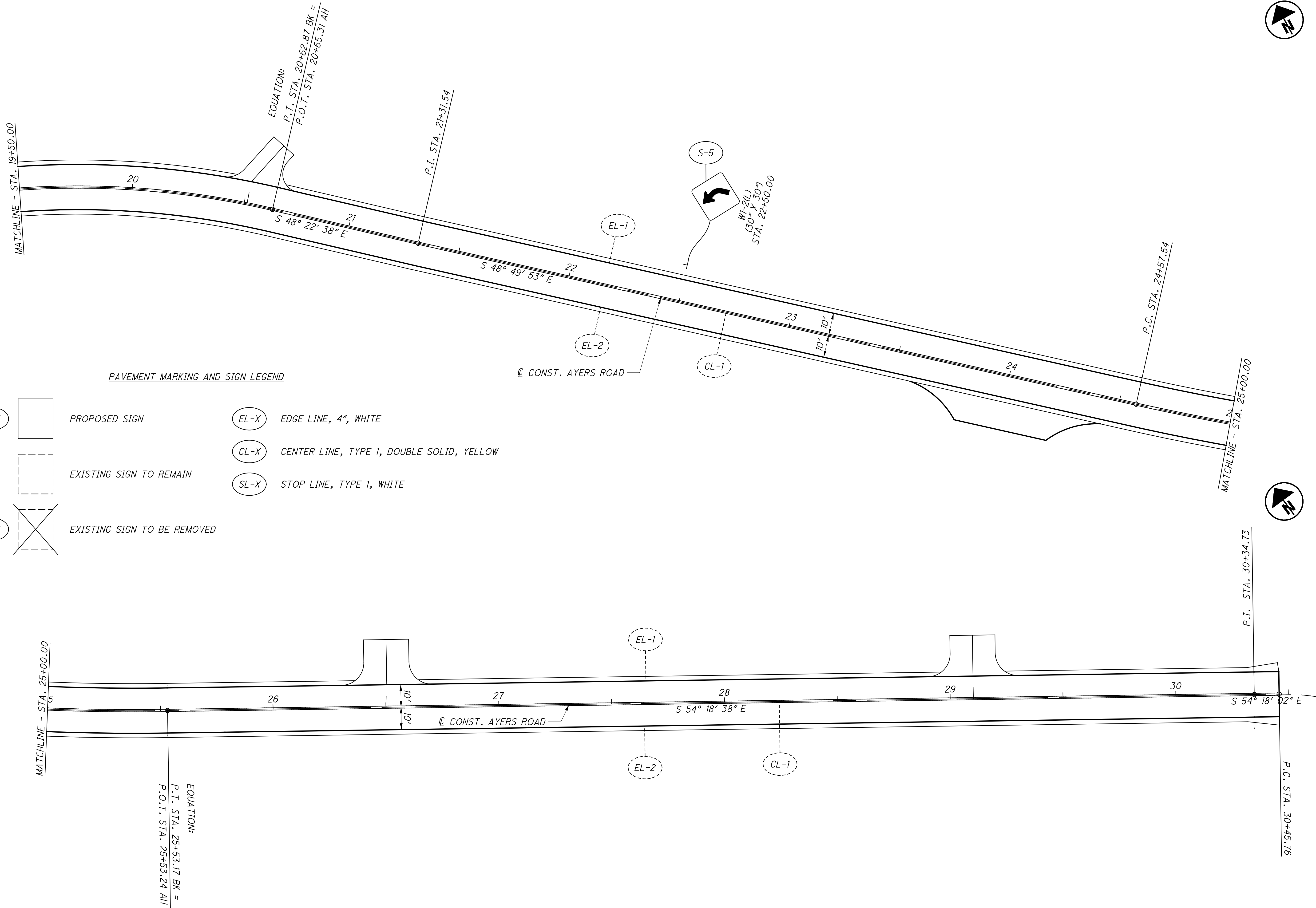
CALCULATED  
JAH

CHECKED  
CJS





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PAVEMENT MARKING AND SIGN LEGEND

- |  |                             |  |   |
|--|-----------------------------|--|---|
|  | PROPOSED SIGN               |  | EDGE LINE, 4", WHITE                      |
|  | EXISTING SIGN TO REMAIN     |  | CENTER LINE, TYPE 1, DOUBLE SOLID, YELLOW |
|  | EXISTING SIGN TO BE REMOVED |  | STOP LINE, TYPE 1, WHITE                  |

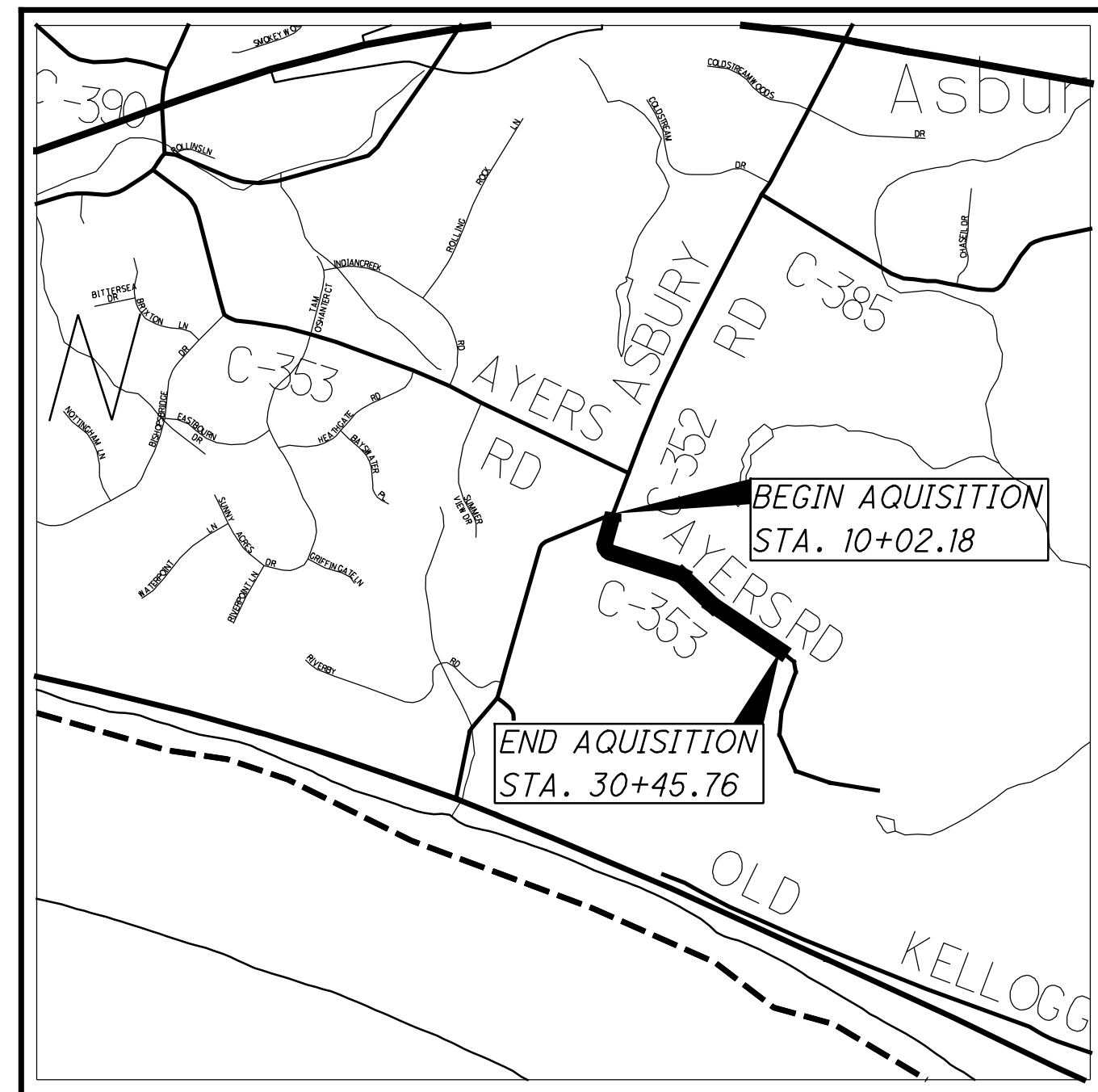
CALCULATED  
JAH

CHECKED  
CJS

0 10 20 40  
HORIZONTAL  
SCALE IN FEET

**SIGNING AND PAVEMENT MARKING PLAN**  
**STA. 19+50.00 TO STA. 30+50.00**

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	630				644		
			FROM	TO		GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND REECTION	REMOVAL OF GROUND MOUNTED POST SUPPORT AND REECTION	EDGE LINE, 4"	CENTER LINE	STOP LINE
						FT	SF	EACH	EACH	MILE	MILE	FT
39	R-1	AYERS ROAD	10+32.00		LT			1	1			
39	R-2	AYERS ROAD	10+46.00		RT			1	1			
39	R-3	AYERS ROAD	12+33.00		RT			1	1			
39	R-4	AYERS ROAD	12+33.00		RT			1	1			
39	R-5	AYERS ROAD	12+81.00		RT			1	1			
39	R-6	AYERS ROAD	12+81.00		RT			1	1			
39	R-7	AYERS ROAD	12+81.00		RT			1	1			
39	R-8	AYERS ROAD	13+08.00		RT			1	1			
39	R-9	AYERS ROAD	13+08.00		RT			1	1			
39	R-10	AYERS ROAD	13+47.00		RT			1	1			
39	R-11	AYERS ROAD	13+47.00		RT			1	1			
39	R-12	AYERS ROAD	16+28.00		LT			1	1			
39	S-1	AYERS ROAD	11+00.00		RT	11	6.25					
39	S-2	AYERS ROAD	13+50.00		LT			1	1			
39	S-3	AYERS ROAD	16+00.00		LT	11	6.25					
39	S-4	AYERS ROAD	17+50.00		RT	11	6.25					
40	S-5	AYERS ROAD	22+50.00		LT	11	6.25					
39-40	EL-1	AYERS ROAD	10+32.00	30+45.76	LT					0.37		
39-40	EL-2	AYERS ROAD	10+32.00	30+45.76	CL						0.37	
39-40	CL-1	AYERS ROAD	10+32.00	30+45.76	RT					0.38		
39	SL-1	AYERS ROAD	10+32.00		LT							10
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>						44	25	13	13	0.75	0.37	10



LOCATION MAP

LATITUDE: 39°02'47" LONGITUDE: 84°20'52"



UTILITY OWNERSHIP  
LISTED BELOW ARE ALL THE UTILITIES LOCATED WITHIN THE PROJECT  
CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

<b>ELECTRIC - DISTRIBUTION:</b>	<b>TELEPHONE:</b>	<b>GAS:</b>
COMPANY	COMPANY	COMPANY
CONTACT PERSON	CONTACT PERSON	CONTACT PERSON
ADDRESS	ADDRESS	ADDRESS
CITY	CITY	CITY
PHONE	PHONE	PHONE
<b>WATER:</b>	<b>CABLE:</b>	
COMPANY	COMPANY	
CONTACT PERSON	CONTACT PERSON	
ADDRESS	ADDRESS	
CITY	CITY	
PHONE	PHONE	

NOTES: THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON  
THE PLANS ARE OBTAINED FROM THE OWNER OF THE  
UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

**STRUCTURE KEY**

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

TYPES OF TITLE LEGEND:  
WD = WARRANTY DEED  
T = TEMPORARY EASEMENT  
SL = SLOPE EASEMENT

# RIGHT OF WAY LEGEND SHEET HAM-TR541

## ANDERSON TOWNSHIP HAMILTON COUNTY

**INDEX OF SHEETS**

LEGEND SHEET	1
CENTERLINE PLAT	2
PROPERTY MAP	3
SUMMARY OF ADDITIONAL R/W	4
R/W TOPO SHEETS	5-8
R/W BOUNDARY SHEETS	9-12

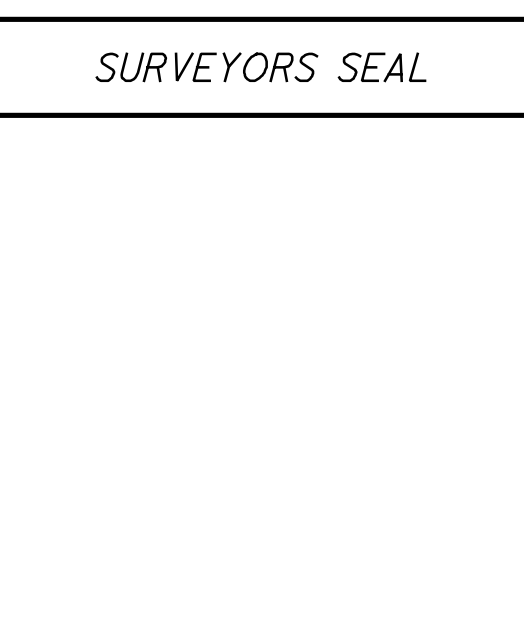
**CONVENTIONAL SYMBOLS**

County Line	-----	Edge of Shoulder (Ex)	-----
Township Line	-----	Edge of Shoulder (Pr)	-----
Section Line	-----	Ditch / Creek (Ex)	-----
Corporation Line	----- or -----	Ditch / Creek (Pr)	-----
Fence Line (Ex)	x-x-x-x (Pr)	Tree Line (Ex)	-----
Center Line	-----	Ownership Hook Symbol	Example
Right of Way (Ex)	----- Ex R/W	Property Line Symbol	Example
Right of Way (Pr)	----- R/W	Break Line Symbol	Example
Standard Highway Ease.(Ex)	----- Ex SH	Tree (Pr)	☼, Tree (Ex) ☼, Shrub (Ex) ☼
Standard Highway Ease.(Pr)	----- SH	Tree (Remove)	☼, Shrub (Remove)
Temporary Right of Way	----- TMP	Evergreen (Ex)	☼, Stump
Channel Ease. (Pr)	----- CH	Evergreen (Remove)	☼, Stump (Remove)
Utility Ease. (Ex)	----- Ex U	Wetland (Pr)	☼, Grass (Pr) ☼, Aerial Target
Railroad	----- or -----	Post (Ex)	○, Mailbox (Ex) ☼, Mailbox (Pr) ☼
Guardrail (Ex)	----- (Pr)	Light (Ex)	☼, Telephone Marker (Ex) TEL
Construction Limits	-----	Fire Hydrant (Ex)	☼, Water Meter (Ex) ☼
Edge of Pavement (Ex)	-----	Water Valve (Ex)	☼, Utility Valve Unknown (Ex.)
Edge of Pavement (Pr)	-----	Telephone Pole (Ex)	☼, Power Pole (Ex) ☼
		Light Pole (Ex)	☼

I, Justin A. Bischof, P. S. have conducted a survey of the existing conditions for the Anderson Township on 1/7/2017. The results of that survey are contained herein. The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinates System South Zone 3402 on NAD 83 (2011) datum. The Project Coordinates (US Survey Feet) are relative to State Plane Grid Coordinates (Meters or US Survey Feet) by a Project Adjustment Factor of 0.99992944. As a part of this project I have reestablished the locations of the existing property lines and the existing centerline of Right of Way for property takes contained herein. As a part of this project I have established the proposed property lines, calculated the Gross Take, present roadway occupied (PRO), Net Take and Net Residue; as well as prepared the legal descriptions necessary to acquire the parcels as shown herein. As a part of this work I have set right of way monuments at the property corners, property line intersection, points along the right of way and/or angle points on the right of way, Section Corners and other points as shown herein. All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself or someone working under my direct supervision.

Justin A Bischof, Professional Land Surveyor 8596

Date:



FEDERAL PROJECT NO.	N / A
PID NO.	N / A
CALCULATED	JDF
CHECKED	JAB
RIGHT OF WAY LEGEND SHEET	HAM-TR541
1 / 12	42 53

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**MONUMENT LEGEND**

- ☐ EXISTING R/W MONUMENT BOX
- ▣ PROPOSED R/W MONUMENT BOX
- ⊙ EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- ⚡ RAILROAD SPIKE FOUND
- ⚡ RAILROAD SPIKE SET
- I.P.F. IRON PIN FOUND
- ⊙ I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- ⊙ I.P.F. IRON PIPE FOUND
- I.P.S. IRON PIPE SET
- R.K.F. P.K. NAIL FOUND
- R.K.S. P.K. NAIL SET

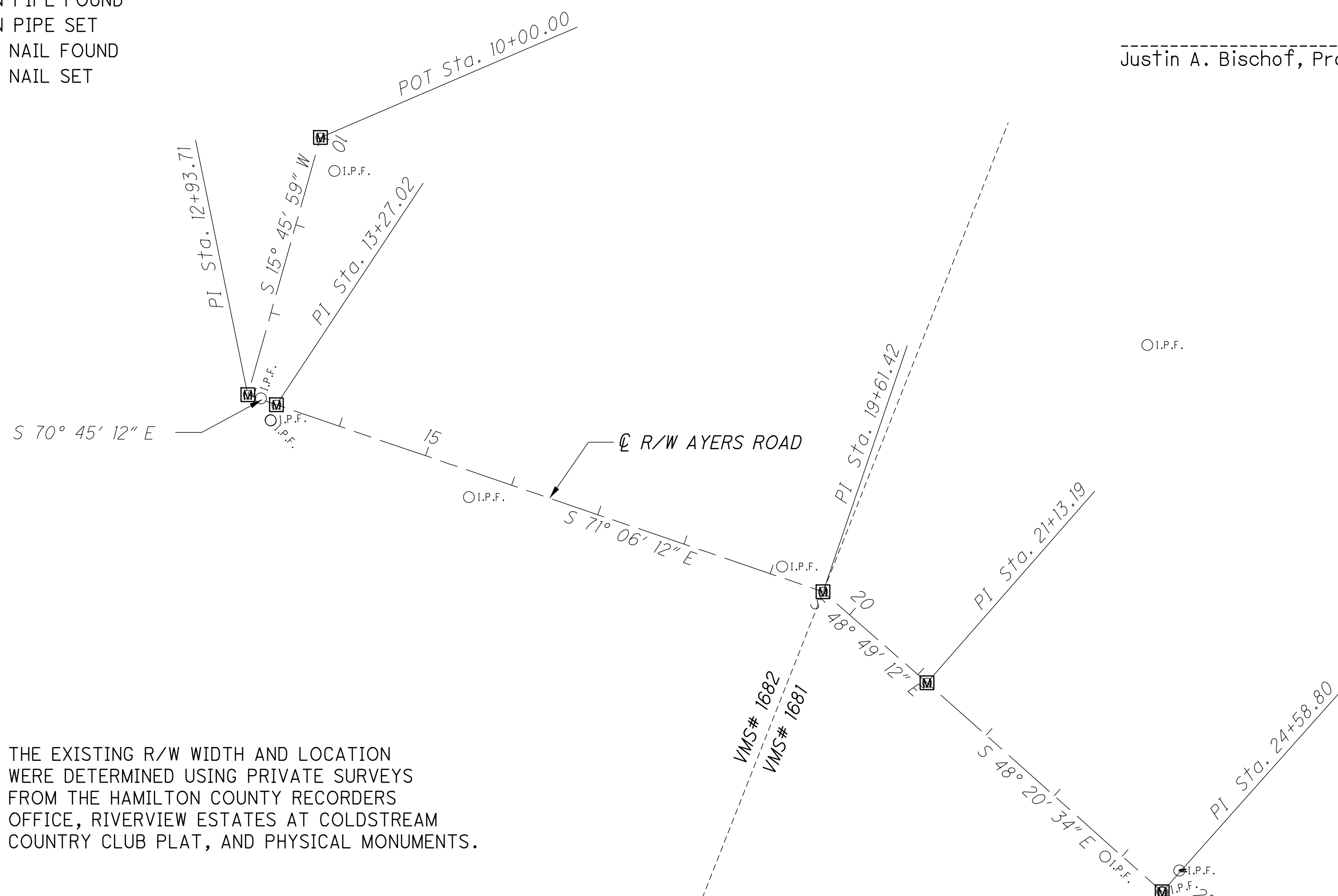
# HAMILTON COUNTY

ANDERSON TOWNSHIP  
VMS# 1681 & 1682

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Justin A. Bischof, Professional Land Surveyor 8596

Date:



NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING PRIVATE SURVEYS FROM THE HAMILTON COUNTY RECORDERS OFFICE, RIVERVIEW ESTATES AT COLDSTREAM COUNTRY CLUB PLAT, AND PHYSICAL MONUMENTS.

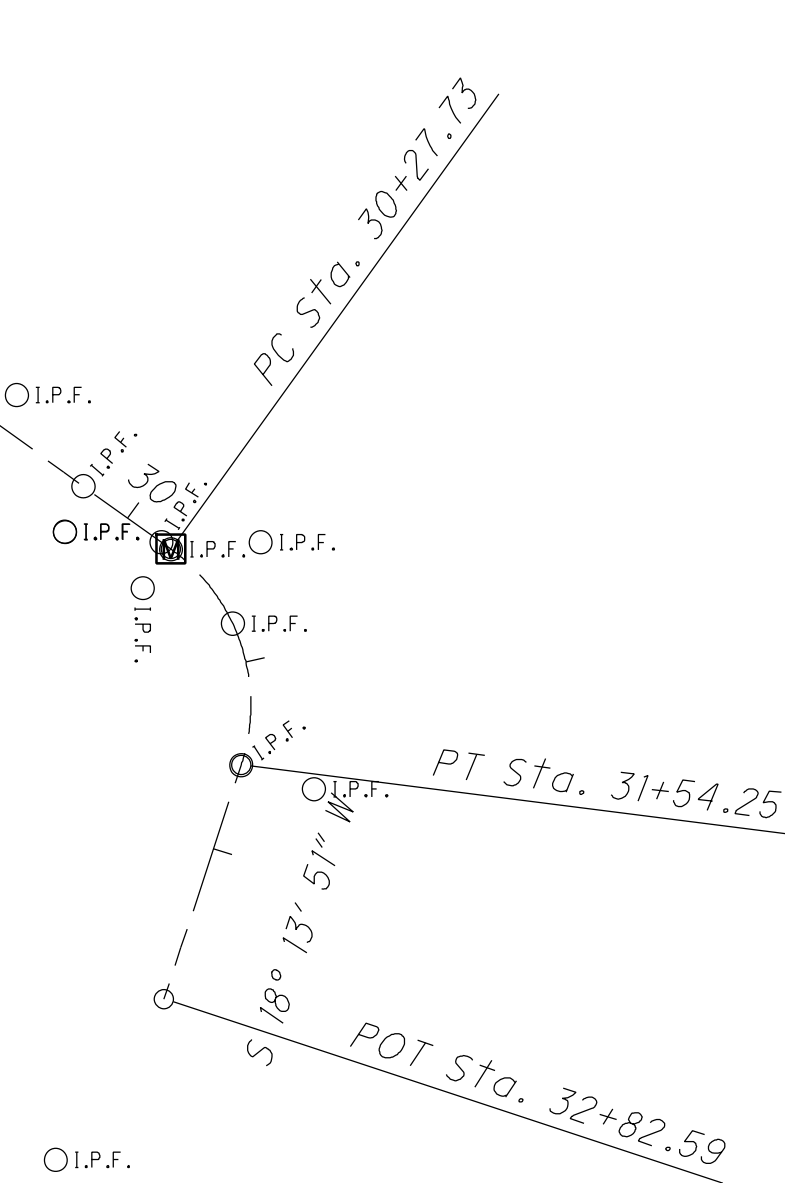
SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE MONUMENT ASSEMBLIES AND REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRE PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

**BASIS FOR BEARINGS:**

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY. THE BASIS OF BEARINGS IS THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE 3402.

MONUMENT TABLE						
☐ of AYERS ROAD HAM-TR541		PROJECT COORDINATES SEE SURVEY CERTIFICATION		MONUMENTS TO BE SET DURING CONSTRUCTION	R/W MON. EXPECTED TO BE DISTURBED	
STATION	OFFSET	NORTH (Y)	EAST (X)	MON. ASSY.	REF. MON.	R/W MON. DESCRIPTION
10+00.00	☐	386915.3847	1443184.6079	1		MONUMENT BOX ASSEMBLY ON ☐ R/W
12+00.00	25.00' LT	386716.1163	1443154.3245			IRON PIN SET WITHIN CON. LIMITS
12+93.71	☐	386632.7211	1443104.8017	1		MONUMENT BOX ASSEMBLY ON ☐ R/W
13+08.53	1.08' LT	386629.1136	1443119.2319		1	IRON PIN SET WITHIN CON. LIMITS
13+17.24	25.00' LT	386648.5689	1443135.2534			IRON PIN SET WITHIN CON. LIMITS
13+27.02	☐	386621.7417	1443136.2476	1		MONUMENT BOX ASSEMBLY ON ☐ R/W
13+27.02	25.00' RT	386598.1139	1443128.0788			IRON PIN SET WITHIN CON. LIMITS
13+27.02	35.00' RT	386593.3883	1443126.4450			IRON PIN SET WITHIN CON. LIMITS
13+50.00	25.00' LT	386637.9524	1443166.0844			IRON PIN SET WITHIN CON. LIMITS
15+59.79	27.54' RT	386520.3036	1443347.5519			IRON PIN SET WITHIN CON. LIMITS
19+56.50	25+00' RT	386394.2252	1443723.7011			IRON PIN SET WITHIN CON. LIMITS
19+61.42	☐	386416.2832	1443736.4560	1		MONUMENT BOX ASSEMBLY ON ☐ R/W
19+79.53	25.00' RT	386385.5431	1443733.6256		1	IRON PIN SET WITHIN CON. LIMITS
21+13.19	☐	386316.3537	1443850.6849	1		MONUMENT BOX ASSEMBLY ON ☐ R/W
24+57.17	30.00' LT	386110.1170	1444127.6476			IRON PIN SET WITHIN CON. LIMITS
24+58.80	☐	386086.6401	1444108.8974	1		MONUMENT BOX ASSEMBLY ON ☐ R/W
24+87.71	0.49' RT	386069.3530	1444132.0752		1	IRON PIN SET WITHIN CON. LIMITS
26+10.13	☐	385998.2426	1444231.7358		1	IRON PIN SET WITHIN CON. LIMITS
29+71.60	☐	385787.1212	1444525.1331		1	IRON PIN SET WITHIN CON. LIMITS
29+77.49	24.96' RT	385763.4036	1444515.3219		1	IRON PIN SET WITHIN CON. LIMITS
29+77.76	25.02' RT	385763.1957	1444515.5134		1	IRON PIN SET WITHIN CON. LIMITS
30+21.51	0.06' LT	385757.9937	1444565.6734		1	IRON PIN SET WITHIN CON. LIMITS
30+27.73	☐	385754.3155	1444570.6902	1		MONUMENT BOX ASSEMBLY ON ☐ R/W
30+27.73	25.08 RT	385733.9467	1444556.0615			IRON PIN SET WITHIN CON. LIMITS
TOTAL CARRIED TO GENERAL SUMMARY SHEET				7	5	12

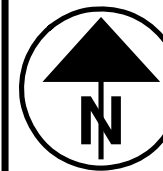


P.I. Sta. 31+01.05  
 $\Delta = 72^\circ 29' 26''$  (RT)  
 $Dc = 57^\circ 17' 45''$   
 $R = 100.00'$   
 $T = 73.31'$   
 $L = 126.52'$   
 $E = 23.99'$   
 $C = 118.25'$   
 $C.B. = S 18^\circ 00' 52'' E$

SURVEYORS SEAL

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RECEIVED \_\_\_\_\_, 20\_\_\_\_  
 RECORDED \_\_\_\_\_, 20\_\_\_\_  
 BOOK \_\_\_\_\_ PAGE \_\_\_\_\_  
 COUNTY RECORDER



50 100 200  
HORIZONTAL SCALE IN FEET

R/W DESIGNER IAV	PID NO. <b>N/A</b>
R/W REVIEWER JAB	<b>N/A</b>

CENTERLINE PLAT

HAM-TR541

2 / 12

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53



# HAMILTON COUNTY

ANDERSON TOWNSHIP  
VMS# 1681 & 1682

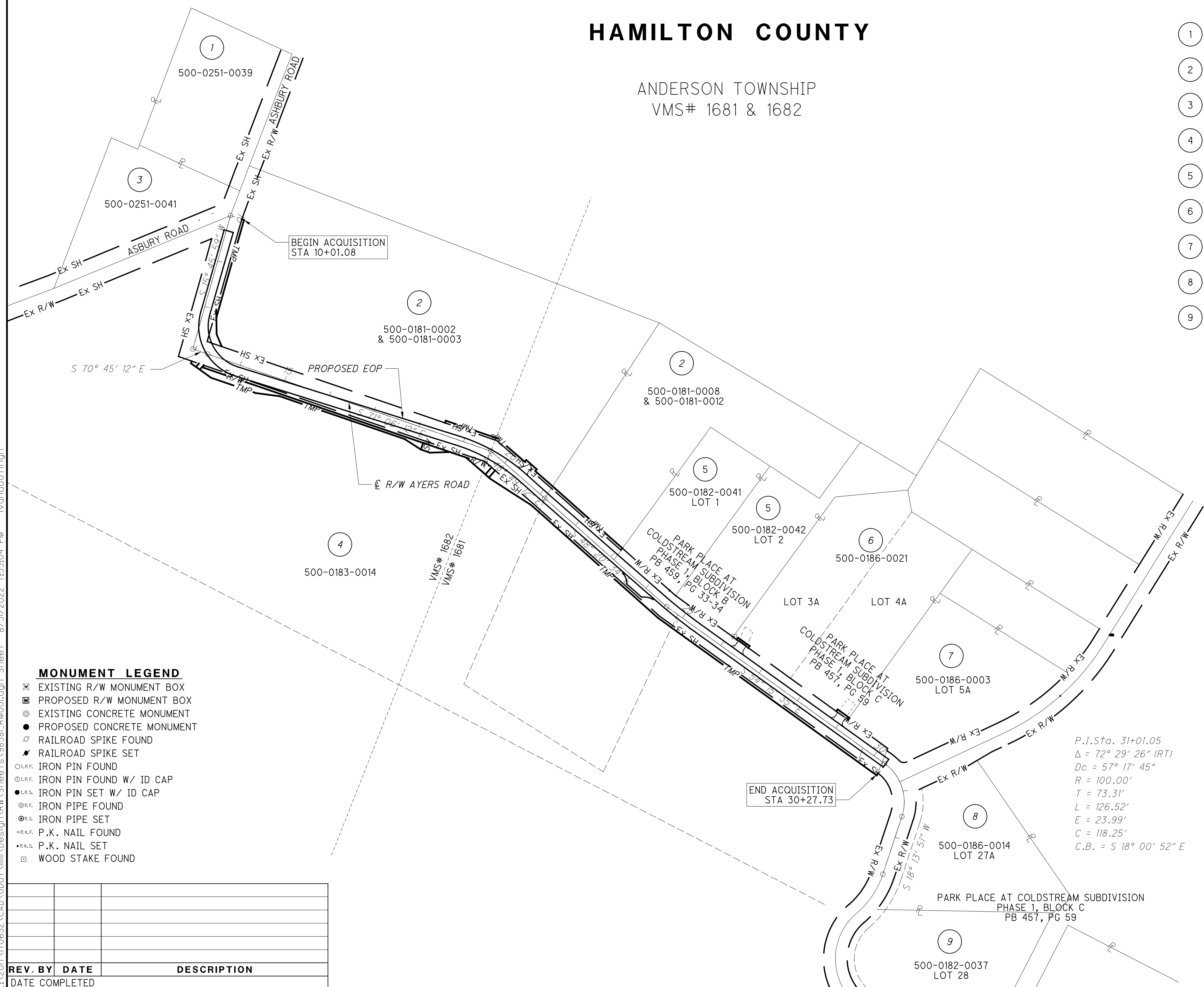
**PROPERTY MAP**

**HAM-TR541**

3 / 12

44  
53

- 1 COLLIN T. YACKS & LEIGH A. WAGNER
- 2 COLDSTREAM COUNTRY CLUB
- 3 WILLIAM PATRICK THOMPSON, TR.
- 4 COLDSTREAM ESTATES DEVELOPMENT LLC
- 5 COLDSTREAM COUNTRY CLUB REALTY, LLC
- 6 BLUE HOSE LLC
- 7 JEFFREY R. SCHAEPER
- 8 MARK AND GRETCHEN TERHAR
- 9 SANDEEP PATEL



P.I. Sta. 31+01.05  
 $\Delta = 72^\circ 29' 26''$  (RT)  
 $Dc = 57' 17' 45''$   
 $R = 100.00'$   
 $T = 73.31'$   
 $L = 126.52'$   
 $E = 23.99'$   
 $C = 118.25'$   
 $C.B. = S 18^\circ 00' 52'' E$

- MONUMENT LEGEND**
- ▣ EXISTING R/W MONUMENT BOX
  - ▣ PROPOSED R/W MONUMENT BOX
  - ⊙ EXISTING CONCRETE MONUMENT
  - PROPOSED CONCRETE MONUMENT
  - ⚡ RAILROAD SPIKE FOUND
  - ⚡ RAILROAD SPIKE SET
  - I.P.F. IRON PIN FOUND
  - I.P.F. IRON PIN FOUND W/ ID CAP
  - I.P.S. IRON PIN SET W/ ID CAP
  - I.P.F. IRON PIPE FOUND
  - I.P.S. IRON PIPE SET
  - P.K.F. P.K. NAIL FOUND
  - P.K.S. P.K. NAIL SET
  - ▣ WOOD STAKE FOUND

REV. BY	DATE	DESCRIPTION

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**TOTAL NUMBER OF :**  
 7 OWNERSHIPS 14 TOTAL TAKES  
 8 PARCELS 0 OWNERSHIPS W/ STRUCTURES INVOLVED

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE  
 NET TAKE = GROSS TAKE - PRO IN TAKE

**GRANTEE:**  
 ALL RIGHT OF WAY ACQUIRED IN THE NAME OF  
 ANDERSON TOWNSHIP  
 UNLESS OTHERWISE SHOWN.

**ALL AREAS IN**

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED	
											LEFT	RIGHT			BOOK	PAGE
1	COLLIN T. YACKS & LEIGH A. WAGNER	5-6	O.R. 13826 PAGE 2016	500-0251-0039	1.722							1.722		NO TAKE		
2-WD1	COLDSTREAM COUNTRY CLUB	5-10	O.R. 4052 PAGE 628	500-0181-0002	7.724	.6911	.7110	.6911	0.199			6.8339				
2-WD2		9-10	O.R. 10427 PAGE 1499	500-0181-0008	3.059	.1128	.1128	.1128	0.0			2.9462				
2-T1		5-6		500-0181-0012				0.0238	0.0	0.0238						
2-T2		7-10						0.0345	0.0	0.0345						
2-T3		9-10						0.0227	0.0	0.0227						
3	WILLIAM PATRICK THOMPSON, TR.	5-6	O.R. 7613 PAGE 2595	500-0251-0041	1.382									NO TAKE		
4-WD1	COLDSTREAM ESTATES DEVELOPMENT, LLC	5-12	O.R. 14330 PAGE 3287	500-183-0014	91.543	0.8608	1.2121	1.1391	0.0730			90.6092				
4-T1							.1127	0.0	.1127							
4-T2							.1562	0.0	.1562							
4-SW1							.0025	0.0	.0025					EASEMENT FOR MAINTAINING STORM SEWER		
4-SW2							.0034	0.0	.0034					EASEMENT FOR MAINTAINING STORM SEWER		
4-SW3							.0046	0.0	.0046					EASEMENT FOR MAINTAINING STORM SEWER		
5	COLDSTREAM COUNTRY CLUB REALTY, LLC	9-12	O.R. 13436 PAGE 1222	500-0182-0041	1.1316											
6-T1	BLUE HOSE LLC	11-12	O.R. 14382 PAGE 1146	500-0186-0021	2.987	0.0	0.0034	0.0	0.0034			2.9836				
6-T2							0.0034	0.0	0.0034							
7	JEFFREY R. SCHAEPER	11-12	O.R. 14403 PAGE 2273	500-0186-0003	1.588	0.0	0.0000	0.0	0.0000			1.588		NO TAKE		

NOTE: ALL TEMPORARY PARCELS TO BE OF MONTH DURATION.

\* DENOTES RIGHT OF WAY ENCROACHMENT

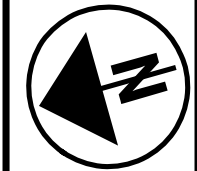
REV. BY	DATE	DESCRIPTION

FEDERAL PROJECT NO. N/A  
 PID NO. N/A  
 STATE JOB NO. N/A  
 R/W DESIGNER IAV  
 R/W REVIEWER JAB  
**SUMMARY OF ADDITIONAL RIGHT OF WAY**  
**HAM-TR541**  
 4 / 12  
 45  
 53

Z:\2017\170652\CAD\000T\11111\Design\RW\Sheets\9858L\_RS001.dgn Sheet 8/31/2022 7:55:06 PM ivandoo@ingh

HAMILTON COUNTY  
ANDERSON TOWNSHIP  
VMS# 1681 & 1682

MATCH LINE 15+00 SEE SHEET:



PID NO. **N/A**  
R/W DESIGNER IAV  
R/W REVIEWER JAB

**RIGHT OF WAY TOPO SHEET**  
**STA 10+00 TO STA 15+00**

**HAM-TR541**

5 / 12

46  
53

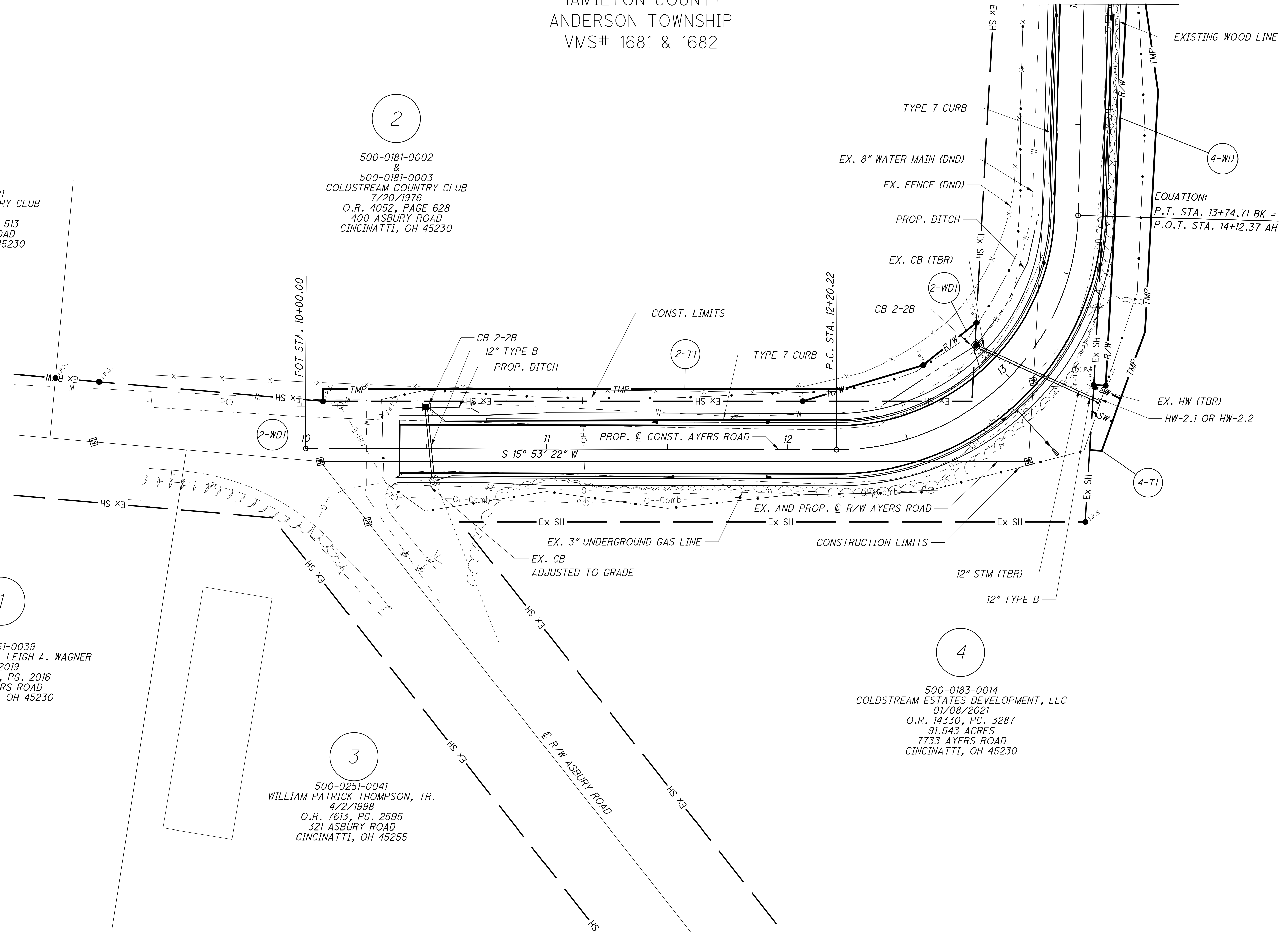
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COLDSTREAM COUNTRY CLUB  
12/06/1961  
O.R. 3191, PAGE 513  
400 ASBURY ROAD  
CINCINNATI, OH 45230

500-0181-0002  
&  
500-0181-0003  
COLDSTREAM COUNTRY CLUB  
7/20/1976  
O.R. 4052, PAGE 628  
400 ASBURY ROAD  
CINCINNATI, OH 45230

500-0251-0039  
COLLIN T. YACKS & LEIGH A. WAGNER  
1/3/2019  
O.R. 13826, PG. 2016  
7583 AYERS ROAD  
CINCINNATI, OH 45230

500-0251-0041  
WILLIAM PATRICK THOMPSON, TR.  
4/2/1998  
O.R. 7613, PG. 2595  
321 ASBURY ROAD  
CINCINNATI, OH 45255

500-0183-0014  
COLDSTREAM ESTATES DEVELOPMENT, LLC  
01/08/2021  
O.R. 14330, PG. 3287  
91.543 ACRES  
7733 AYERS ROAD  
CINCINNATI, OH 45230



1

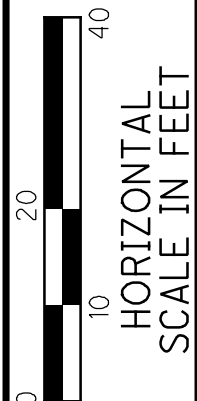
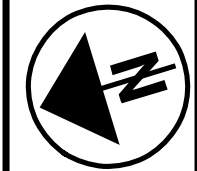
3

2

4

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HAMILTON COUNTY  
ANDERSON TOWNSHIP  
VMS# 1681 & 1682



PID NO. N/A  
R/W DESIGNER IAV  
R/W REVIEWER JAB

RIGHT OF WAY BOUNDARY SHEET  
STA 10+00 TO STA 15+00

HAM-TR541

6 / 12

47  
53

500-0181-0001  
COLDSTREAM COUNTRY CLUB  
12/06/1961  
O.R. 3191, PAGE 513  
173.48 ACRES  
400 ASBURY ROAD  
CINCINNATI, OH 45230

500-0181-0002  
&  
500-0181-0003  
COLDSTREAM COUNTRY CLUB  
7/20/1976  
O.R. 4052, PAGE 628  
7.724 ACRES  
400 ASBURY ROAD  
CINCINNATI, OH 45230

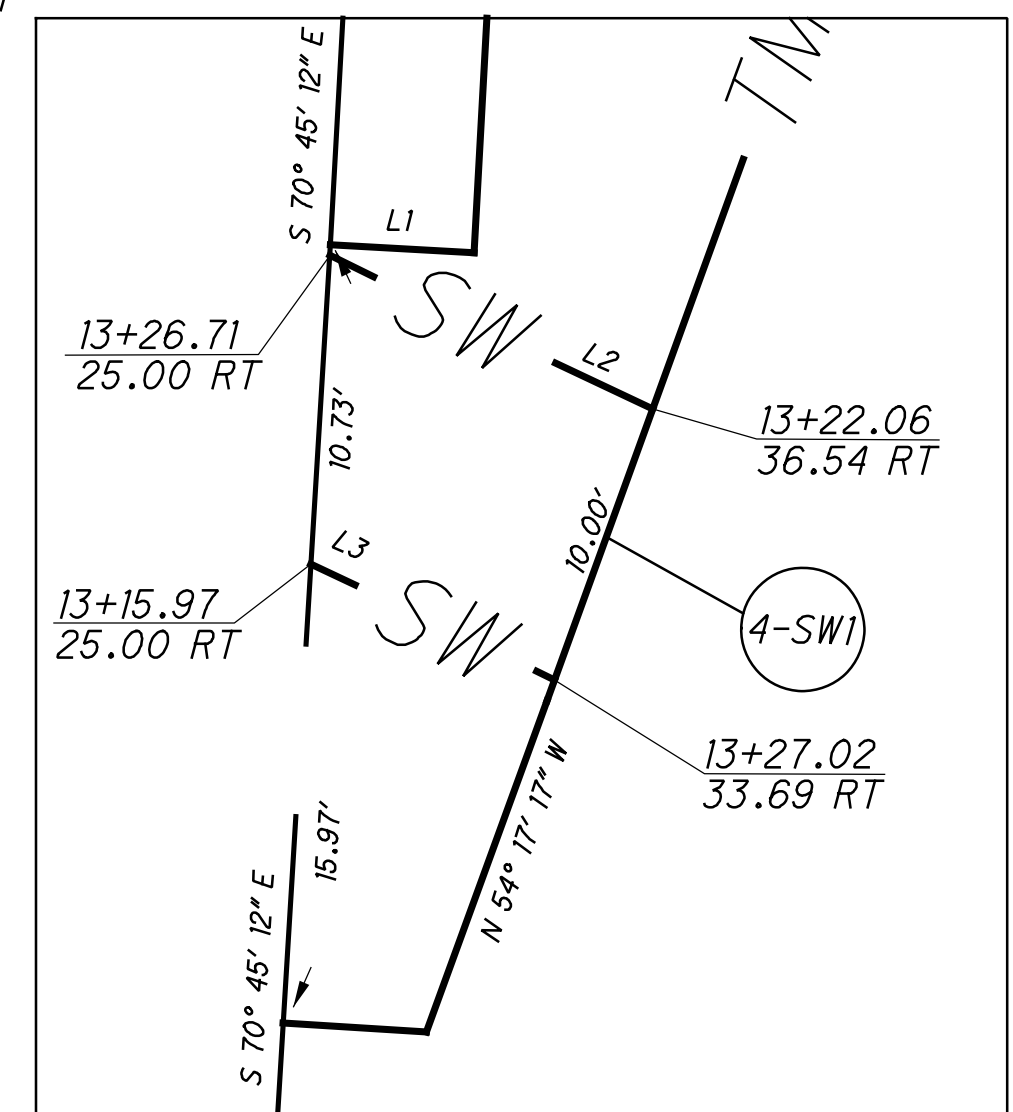
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COLLIN T. YACKS & LEIGH A. WAGNER  
1/3/2019  
O.R. 13826, PG. 2016  
1.722 ACRES  
7583 AYERS ROAD  
CINCINNATI, OH 45230

500-0251-0041  
WILLIAM PATRICK THOMPSON, TR.  
4/2/1998  
O.R. 7613, PG. 2595  
1.382 ACRES  
321 ASBURY ROAD  
CINCINNATI, OH 45255

500-0183-0014  
COLDSTREAM ESTATES DEVELOPMENT, LLC  
01/08/2021  
O.R. 14330, PG. 3287  
91.543 ACRES  
7733 AYERS ROAD  
CINCINNATI, OH 45230

RIGHT OF WAY LINE DATA

LINE	BEARING	DISTANCE
L1	S 18° 53' 48" W	5.00'
L2	S 41° 11' 58" W	12.42'
L3	N 41° 11' 58" E	9.37'



REV. BY	DATE	DESCRIPTION

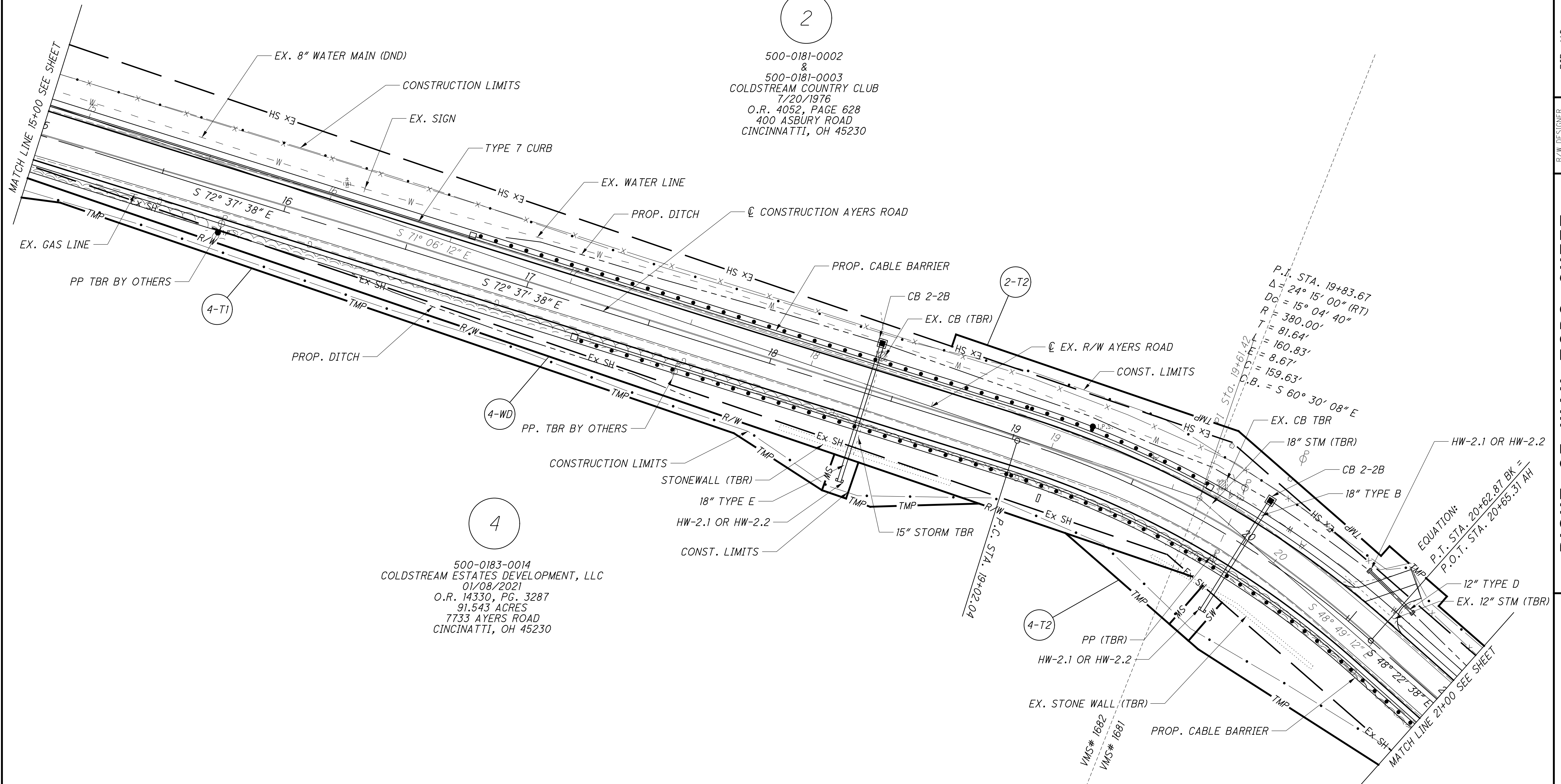
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HAMILTON COUNTY  
ANDERSON TOWNSHIP  
VMS# 1681 & 1682

2

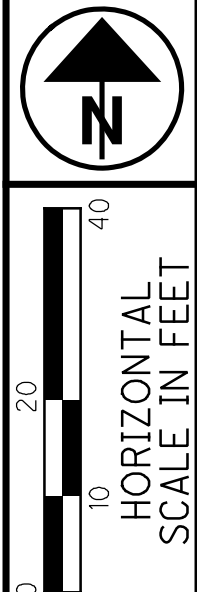
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&  
500-0181-0003  
COLDSTREAM COUNTRY CLUB  
7/20/1976  
O.R. 4052, PAGE 628  
400 ASBURY ROAD  
CINCINNATI, OH 45230

500-0183-0014  
COLDSTREAM ESTATES DEVELOPMENT, LLC  
01/08/2021  
O.R. 14330, PG. 3287  
91.543 ACRES  
7733 AYERS ROAD  
CINCINNATI, OH 45230



P.I. STA. 19+83.67  
 $\Delta = 24^\circ 15' 00''$  (RT)  
 $D_c = 15^\circ 04' 40''$   
 $R = 380.00'$   
 $T = 81.64'$   
 $L = 160.83'$   
 $E = 8.67'$   
 $C.B. = 159.63'$   
 $C.B. = S 60^\circ 30' 08'' E$

EQUATION:  
P.I. STA. 20+62.87 BK =  
P.O.T. STA. 20+65.31 AH



PID NO. N/A  
R/W DESIGNER IAV  
R/W REVIEWER JAB

RIGHT OF WAY TOPO SHEET  
STA 15+00 TO 21+00

HAM - TR541

7 / 12

48  
53

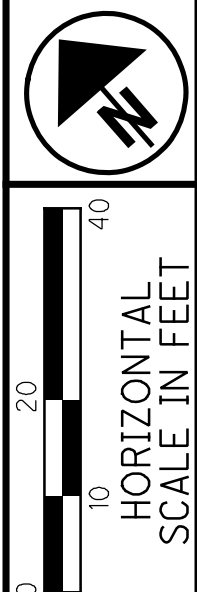
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REV. BY	DATE	DESCRIPTION





HAMILTON COUNTY  
ANDERSON TOWNSHIP  
VMS# 1681 & 1682



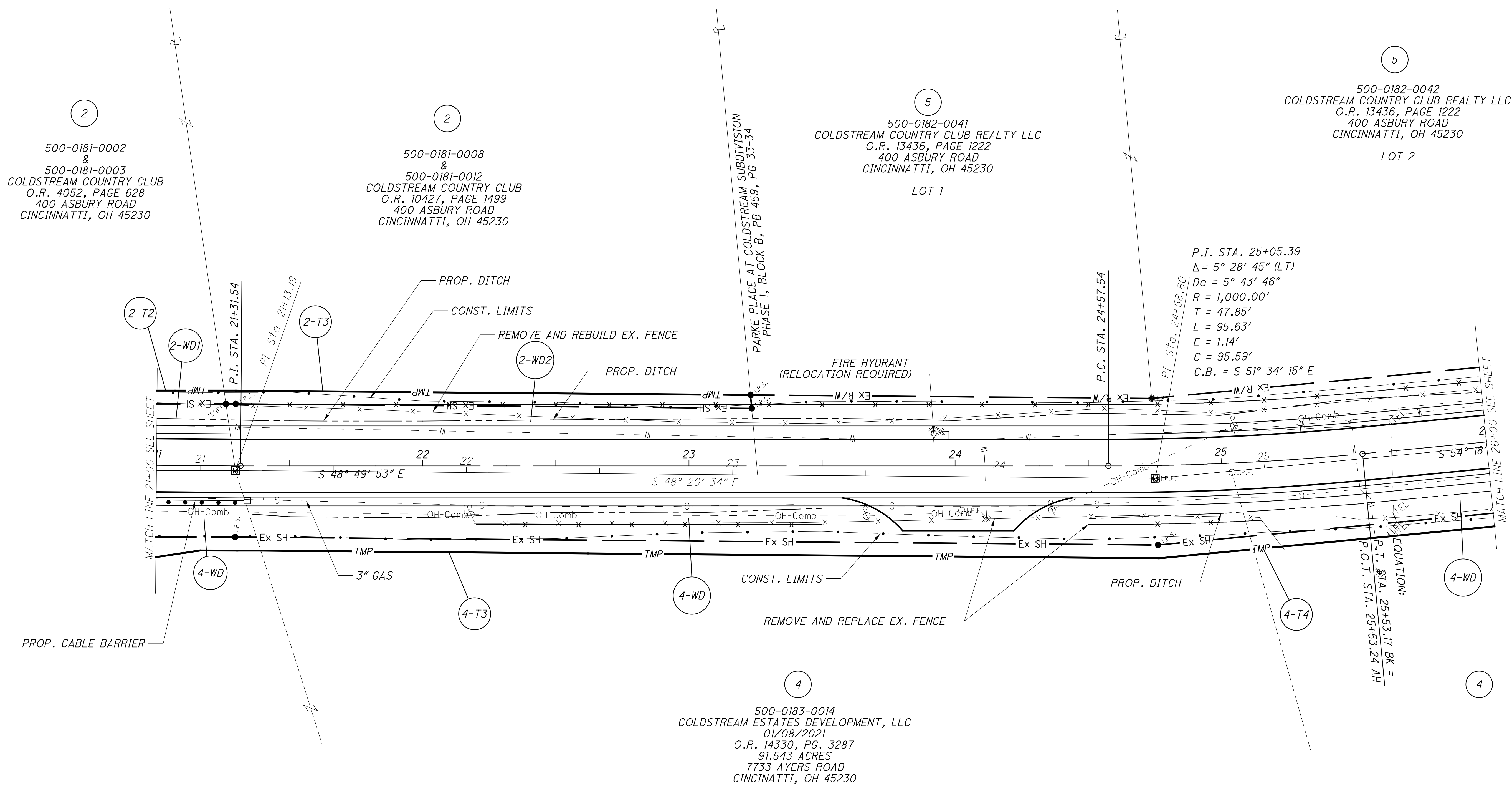
PID NO. N/A  
R/W DESIGNER IAV  
R/W REVIEWER JAB

RIGHT OF WAY TOPO SHEET  
STA 21+00 TO 26+00

HAM-TR541

9 / 12

50  
53



2  
500-0181-0002  
&  
500-0181-0003  
COLDSTREAM COUNTRY CLUB  
O.R. 4052, PAGE 628  
400 ASBURY ROAD  
CINCINNATTI, OH 45230

2  
500-0181-0008  
&  
500-0181-0012  
COLDSTREAM COUNTRY CLUB  
O.R. 10427, PAGE 1499  
400 ASBURY ROAD  
CINCINNATTI, OH 45230

5  
500-0182-0041  
COLDSTREAM COUNTRY CLUB REALTY LLC  
O.R. 13436, PAGE 1222  
400 ASBURY ROAD  
CINCINNATTI, OH 45230  
LOT 1

5  
500-0182-0042  
COLDSTREAM COUNTRY CLUB REALTY LLC  
O.R. 13436, PAGE 1222  
400 ASBURY ROAD  
CINCINNATTI, OH 45230  
LOT 2

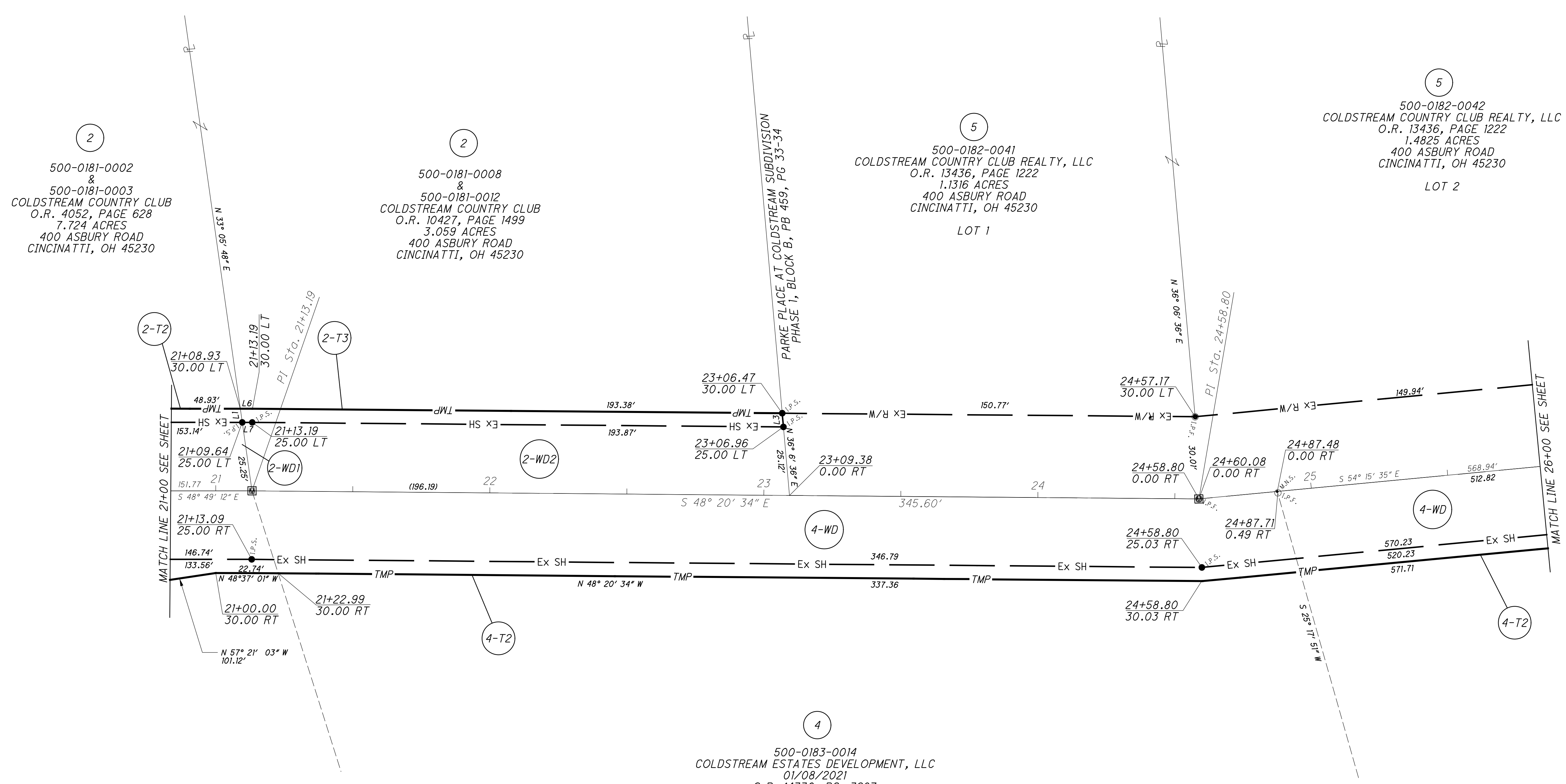
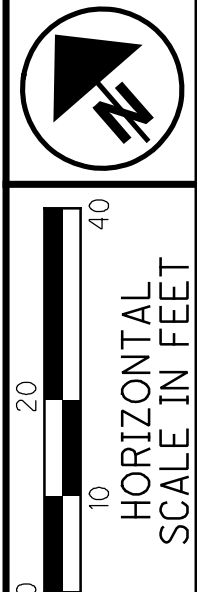
4  
500-0183-0014  
COLDSTREAM ESTATES DEVELOPMENT, LLC  
01/08/2021  
O.R. 14330, PG. 3287  
91,543 ACRES  
7733 AYERS ROAD  
CINCINNATTI, OH 45230

P.I. STA. 25+05.39  
Δ = 5° 28' 45" (LT)  
Dc = 5° 43' 46"  
R = 1,000.00'  
T = 47.85'  
L = 95.63'  
E = 1.14'  
C = 95.59'  
C.B. = S 51° 34' 15" E

EQUATION:  
P.I. STA. 25+53.17 BK =  
P.O.T. STA. 25+53.24 AH

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HAMILTON COUNTY  
ANDERSON TOWNSHIP  
VMS# 1681 & 1682



2  
500-0181-0002  
&  
500-0181-0003  
COLDSTREAM COUNTRY CLUB  
O.R. 4052, PAGE 628  
7.724 ACRES  
400 ASBURY ROAD  
CINCINNATI, OH 45230

2  
500-0181-0008  
&  
500-0181-0012  
COLDSTREAM COUNTRY CLUB  
O.R. 10427, PAGE 1499  
3.059 ACRES  
400 ASBURY ROAD  
CINCINNATI, OH 45230

5  
500-0182-0041  
COLDSTREAM COUNTRY CLUB REALTY, LLC  
O.R. 13436, PAGE 1222  
1.1316 ACRES  
400 ASBURY ROAD  
CINCINNATI, OH 45230  
LOT 1

5  
500-0182-0042  
COLDSTREAM COUNTRY CLUB REALTY, LLC  
O.R. 13436, PAGE 1222  
1.4825 ACRES  
400 ASBURY ROAD  
CINCINNATI, OH 45230  
LOT 2

4  
500-0183-0014  
COLDSTREAM ESTATES DEVELOPMENT, LLC  
01/08/2021  
O.R. 14330, PG. 3287  
91.543 ACRES  
7733 AYERS ROAD  
CINCINNATI, OH 45230

RIGHT OF WAY LINE DATA

LINE	BEARING	DISTANCE
L1	S 33° 05' 48" W	5.05'
L3	S 36° 06' 36" W	5.02'
L5	S 48° 20' 34" W	8.06'
L6	S 48° 49' 12" E	4.41'
L7	N 48° 49' 12" W	3.66'

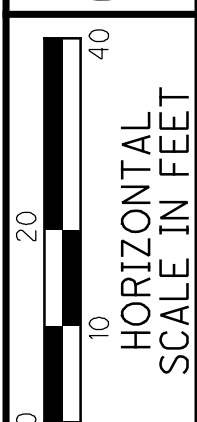
PID NO. N/A  
R/W DESIGNER IAV  
R/W REVIEWER JAB

RIGHT OF WAY BOUNDARY SHEET  
STA 21+00 TO STA 26+00

HAM-TR541

REV. BY	DATE	DESCRIPTION

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R/W DESIGNER	IAV
R/W REVIEWER	JAB
PID NO.	N/A

**RIGHT OF WAY TOPO SHEET**  
**STA 26+00 TO 30+45.76**

**HAM-TR541**

11 / 12

52  
53

HAMILTON COUNTY  
 ANDERSON TOWNSHIP  
 VMS# 1681 & 1682

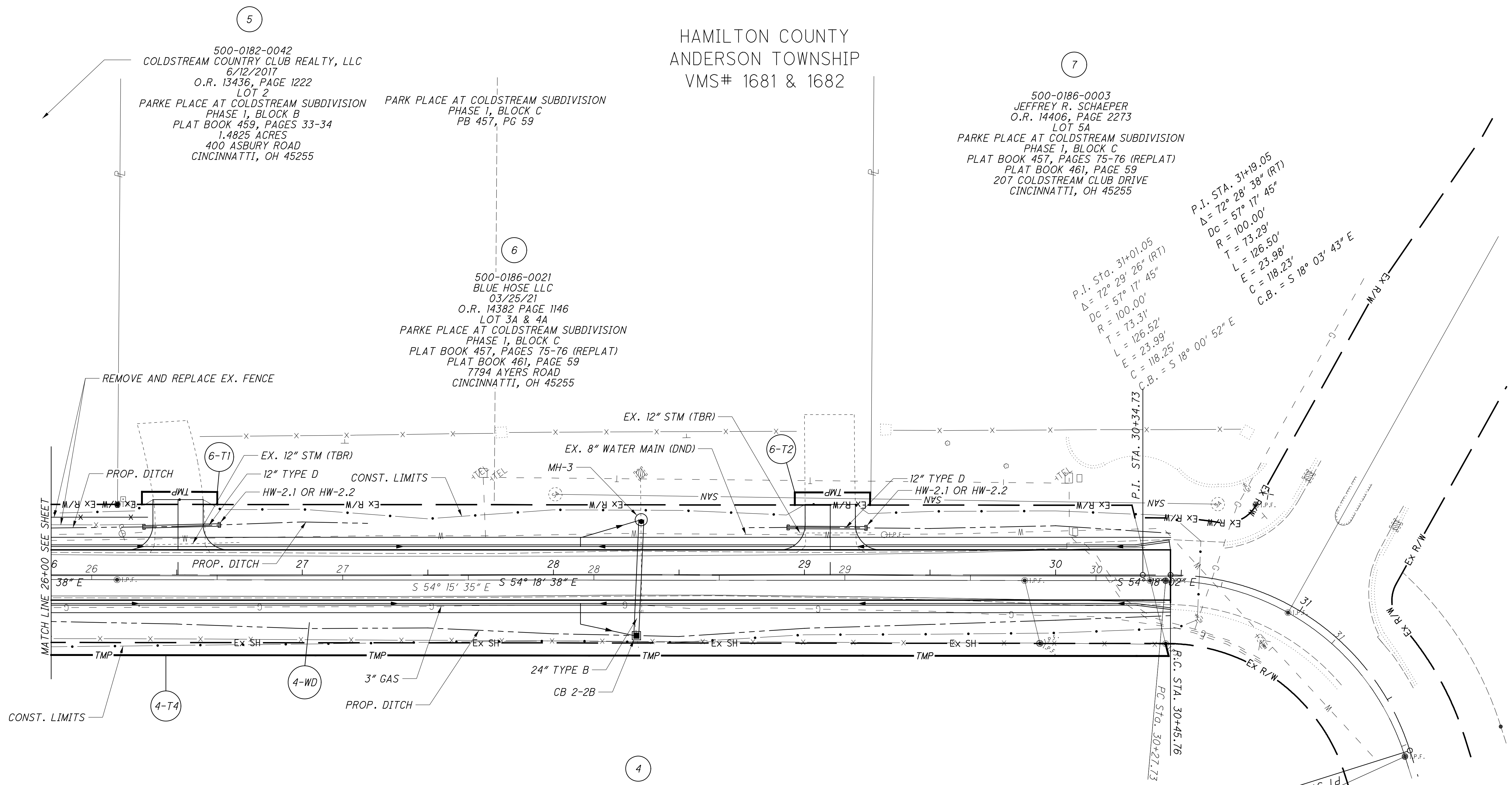
500-0182-0042  
 COLDSTREAM COUNTRY CLUB REALTY, LLC  
 6/12/2017  
 O.R. 13436, PAGE 1222  
 LOT 2  
 PARKE PLACE AT COLDSTREAM SUBDIVISION  
 PHASE 1, BLOCK B  
 PLAT BOOK 459, PAGES 33-34  
 1.4825 ACRES  
 400 ASBURY ROAD  
 CINCINNATI, OH 45255

PARK PLACE AT COLDSTREAM SUBDIVISION  
 PHASE 1, BLOCK C  
 PB 457, PG 59

500-0186-0021  
 BLUE HOSE LLC  
 03/25/21  
 O.R. 14382 PAGE 1146  
 LOT 3A & 4A  
 PARKE PLACE AT COLDSTREAM SUBDIVISION  
 PHASE 1, BLOCK C  
 PLAT BOOK 457, PAGES 75-76 (REPLAT)  
 PLAT BOOK 461, PAGE 59  
 7794 AYERS ROAD  
 CINCINNATI, OH 45255

500-0186-0003  
 JEFFREY R. SCHAEFER  
 O.R. 14406, PAGE 2273  
 LOT 5A  
 PARKE PLACE AT COLDSTREAM SUBDIVISION  
 PHASE 1, BLOCK C  
 PLAT BOOK 457, PAGES 75-76 (REPLAT)  
 PLAT BOOK 461, PAGE 59  
 207 COLDSTREAM CLUB DRIVE  
 CINCINNATI, OH 45255

500-0183-0014  
 COLDSTREAM ESTATES DEVELOPMENT, LLC  
 01/08/2021  
 O.R. 14330, PG. 3287  
 91.543 ACRES  
 7733 AYERS ROAD  
 CINCINNATI, OH 45230



P.I. STA. 31+01.05  
 $\Delta = 72^\circ 29' 26''$  (RT)  
 $D_c = 100.00'$   
 $R = 73.31'$   
 $T = 126.52'$   
 $L = 23.99'$   
 $E = 118.25'$   
 $C = 118.25'$   
 $C.B. = S 18^\circ 00' 52'' E$

P.I. STA. 31+19.05  
 $\Delta = 72^\circ 28' 38''$  (RT)  
 $D_c = 57^\circ 17' 45''$   
 $R = 100.00'$   
 $T = 73.29'$   
 $L = 126.50'$   
 $E = 23.98'$   
 $C = 118.23'$   
 $C.B. = S 18^\circ 03' 43'' E$

P.I. STA. 30+34.73  
 $\Delta = 72^\circ 29' 26''$  (RT)  
 $D_c = 100.00'$   
 $R = 73.31'$   
 $T = 126.52'$   
 $L = 23.99'$   
 $E = 118.25'$   
 $C = 118.25'$   
 $C.B. = S 18^\circ 00' 52'' E$

R.C. STA. 30+45.76  
 PC STA. 30+27.73

PT STA. 31+54.25  
 PT STA. 31+72.25

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5  
 500-0182-0042  
 COLDSTREAM COUNTRY CLUB REALTY, LLC  
 6/12/2017  
 O.R. 13436, PAGE 1222  
 LOT 2  
 PARKE PLACE AT COLDSTREAM SUBDIVISION  
 PHASE 1, BLOCK B  
 PLAT BOOK 459, PAGES 33-34  
 1.4825 ACRES  
 400 ASBURY ROAD  
 CINCINNATI, OH 45255

PARK PLACE AT COLDSTREAM SUBDIVISION  
 PHASE 1, BLOCK C  
 PB 457, PG 59

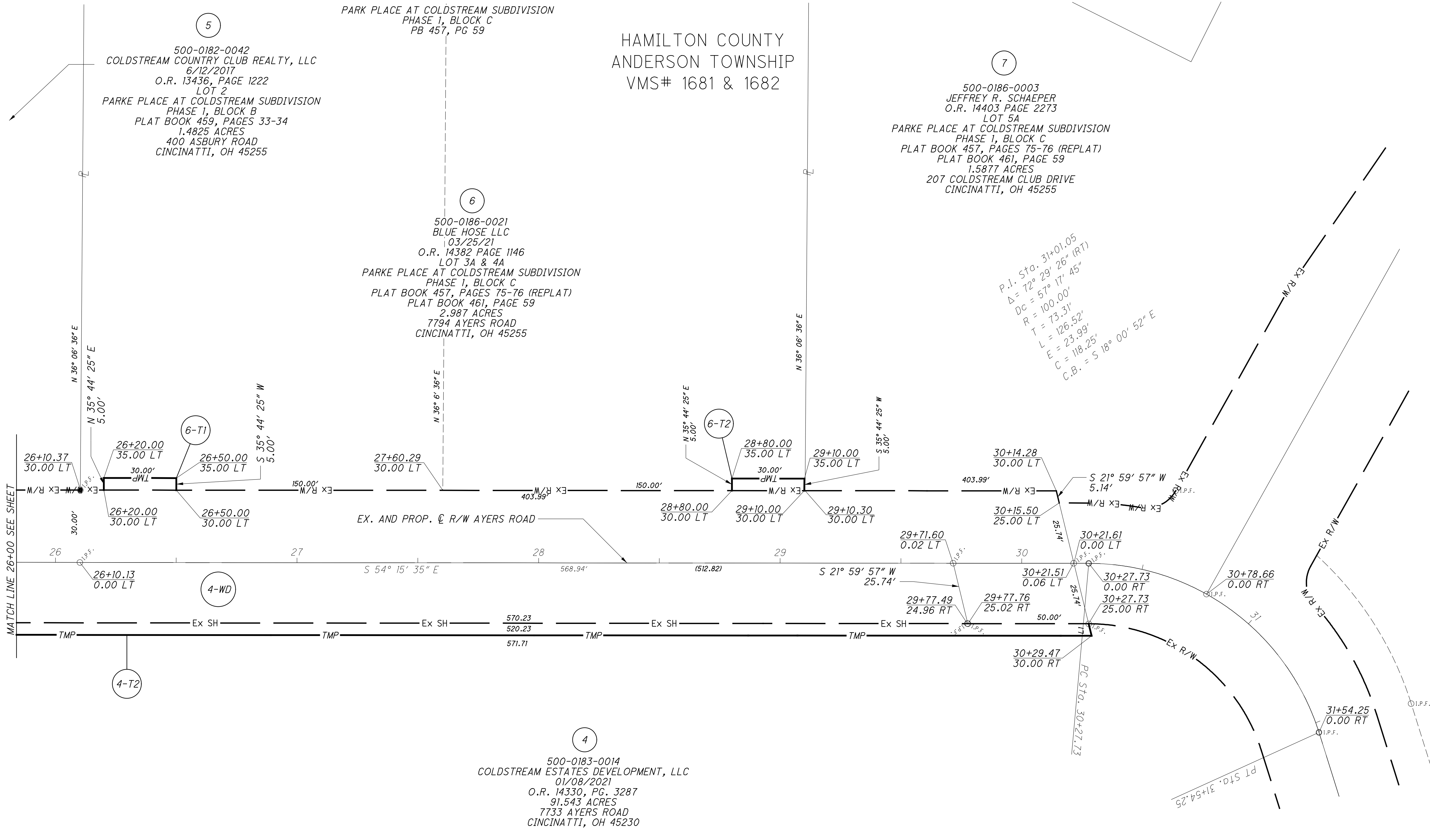
HAMILTON COUNTY  
 ANDERSON TOWNSHIP  
 VMS# 1681 & 1682

7  
 500-0186-0003  
 JEFFREY R. SCHAEFER  
 O.R. 14403 PAGE 2273  
 LOT 5A  
 PARKE PLACE AT COLDSTREAM SUBDIVISION  
 PHASE 1, BLOCK C  
 PLAT BOOK 457, PAGES 75-76 (REPLAT)  
 PLAT BOOK 461, PAGE 59  
 1.5877 ACRES  
 207 COLDSTREAM CLUB DRIVE  
 CINCINNATI, OH 45255

6  
 500-0186-0021  
 BLUE HOSE LLC  
 03/25/21  
 O.R. 14382 PAGE 1146  
 LOT 3A & 4A  
 PARKE PLACE AT COLDSTREAM SUBDIVISION  
 PHASE 1, BLOCK C  
 PLAT BOOK 457, PAGES 75-76 (REPLAT)  
 PLAT BOOK 461, PAGE 59  
 2.987 ACRES  
 7794 AYERS ROAD  
 CINCINNATI, OH 45255

4  
 500-0183-0014  
 COLDSTREAM ESTATES DEVELOPMENT, LLC  
 01/08/2021  
 O.R. 14330, PG. 3287  
 91.543 ACRES  
 7733 AYERS ROAD  
 CINCINNATI, OH 45230

P.I. Sta. 31+01.05  
 $\Delta = 72^\circ 29' 26''$  (RT)  
 $D_c = 57' 17' 45''$   
 $R = 100.00'$   
 $T = 73.31'$   
 $L = 126.52'$   
 $E = 23.99'$   
 $C = 118.25'$   
 $C.B. = S 18^\circ 00' 52'' E$



RIGHT OF WAY LINE DATA

LINE	BEARING	DISTANCE
L1	S 21° 59' 57" W	5.15

REV. BY	DATE	DESCRIPTION

HORIZONTAL SCALE IN FEET

PID NO. **N/A**

R/W DESIGNER: IAV  
 R/W REVIEWER: JAB

**RIGHT OF WAY BOUNDARY SHEET**  
**STA 26+00 TO STA 30+27.73**

**HAM-TR541**

12 / 12

53  
53