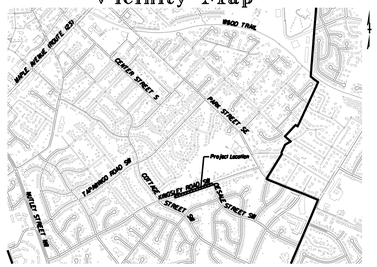
PROJECT MANAGER TOWN OF VIENNA: ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES, JANUARY 2023
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023

SHEET INDEX

Vicinity Map



CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
CITY,TOWN OR VILLAGE
RIGHT OF WAY LINE
FENCE LINE
UNFENCED PROPERTY LINE
FENCED PROPERTY LINE
WATER LINE
SANITARY SEWER LINE
GAS LINE
ELECTRIC UNDERGROUND CABLE
TRAVELED WAY
GUARD RAIL
RETAINING WALL
RAILROADS
BASE OR SURVEY LINE

LEVEE OR EMBANKMENT
BRIDGES
CULVERTS
DROP INLET
POWER POLES
TELEPHONE OR TELEGRAPH POLES
TELEPHONE OR TELEGRAPH LINES
HEDGE
TREES
HEAVY WOODS
GROUND ELEVATION
GRADE ELEVATION

THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE GENERAL NOTES.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2020 ROAD AND BRIDGE SPECIFICATIONS (UPDATED DECEMBER 2022), 2016 ROAD AND BRIDGE STANDARDS (REV. JANAURY 2026), VIRGINIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES VERSION 11.0, 2026 VIRGINIA WORK AREA PROTECTION MANUAL, TOWN OF VIENNA PUBLIC INFRASTRUCTURE MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11ULS, EXCEPT WHERE OTHERWISE NOTED.

THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, IS FILED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.

COMMONWEALTH OF VIRGINIA

TOWN OF VIENNA

TOWN OF VIENNA - DEPARTMENT OF PUBLIC WORKS

FHWA 534 DATA 47028
UPC NO.106963

STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA	CMAQ-5B01( ) SEE TABULATION BELOW FOR SECTION NUMBERS		U000-153-197 SEE TABULATION BELOW FOR SECTION NUMBERS	1

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
KINGSLEY ROAD SW - URBAN LOCAL STREET - ROLLING	
	Fr: 455 LF E OF COTTAGE STREET SW To: DESALE STREET SW
ADT	N/A
ADT	N/A
DHV	N/A
D (%) (design hour)	N/A
T (%) (design hour)	N/A
V (MPH)	25 (POSTED SPEED)

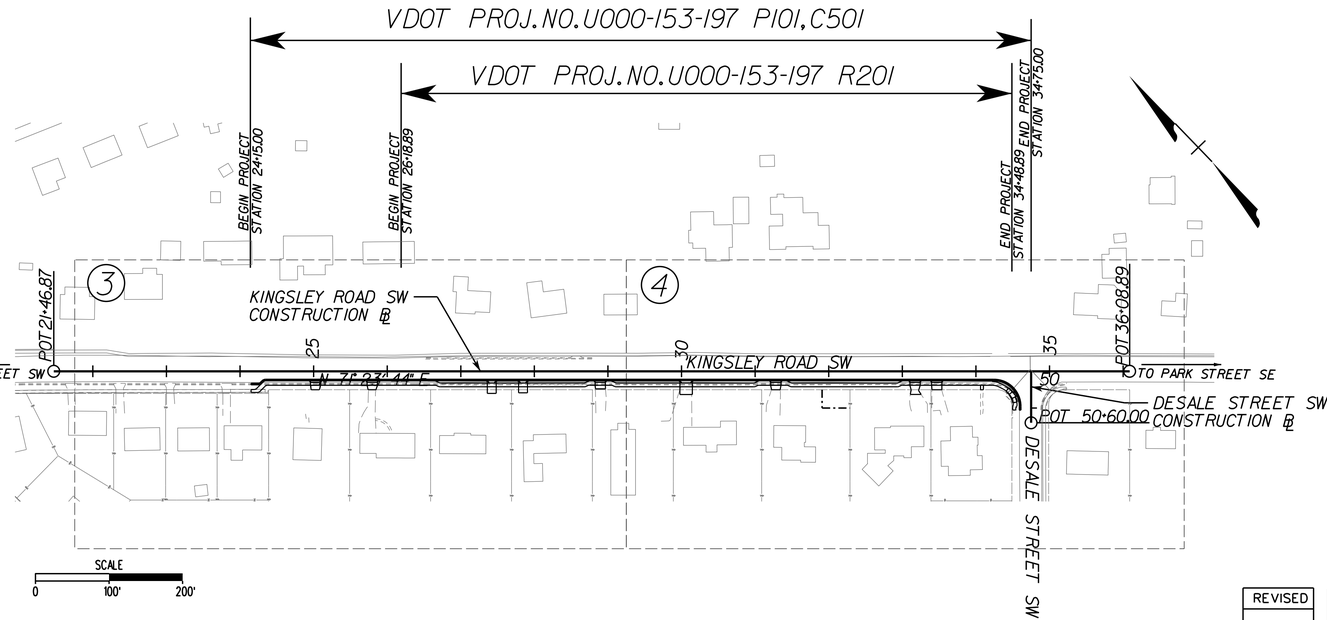
Note: All roadways and features are maintained by the Town of Vienna.

PLAN AND PROFILE OF PROPOSED PEDESTRIAN ACCESS IMPROVEMENTS

KINGSLEY ROAD SW SIDEWALK

FROM: 455 LF E. of COTTAGE STREET SW
TO: DESALE STREET SW

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
GEOPAK Computer Identification No. 106963



CONSTRUCTION PLANS
MAY 2026

Population 16,544 (2017 Census)

DESCRIPTION REFERENCE:
INTERSECTION OF KINGSLEY ROAD SW
WITH DESALE STREET SW
POT. 34+75.00

STATE PROJECT NO.	SECTION	FEDERAL AID	TYPE CODE	UPC NO.	LENGTH INCLUDING BRIDGE(S) FEET	LENGTH INCLUDING BRIDGE(S) MILES	LENGTH EXCLUDING BRIDGE(S) FEET	LENGTH EXCLUDING BRIDGE(S) MILES	BRIDGE PLAN NO.	TYPE PROJECT	DESCRIPTION
U000-153-197	P101	CMAQ-5B01(247)	PENG	106963	1060.00	0.20	1060.00	0.20	N/A	Prelim. Eng.	FROM: 455 LF E. of COTTAGE STREET SW/ TO: DESALE STREET SW
	R201	CMAQ-5B01(453)	ROWA	106963	1060.00	0.20	1060.00	0.20	N/A	Right of Way	FROM: 455 LF E. of COTTAGE STREET SW/ TO: DESALE STREET SW
	C501	CMAQ-5B01(454)	F000	106963	1060.00	0.20	1060.00	0.20	N/A	Construction	FROM: 455 LF E. of COTTAGE STREET SW/ TO: DESALE STREET SW

NOTE: PROJECT LENGTH BASED ON KINGSLEY ROAD SW CONSTRUCTION BASELINE

REVISED

LOCALLY ADMINISTERED PROJECTS

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION

7/23/24 (DATE) — BRAD BAER, PE, DIRECTOR OF DEPARTMENT OF PUBLIC WORKS, TOWN OF VIENNA

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION

5/18/26 (DATE) — BRAD BAER, PE, DIRECTOR OF DEPARTMENT OF PUBLIC WORKS, TOWN OF VIENNA

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PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, JANUARY, 2023
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP, (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023

RIGHT OF WAY DATA SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	1A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

City/County: Town of Vienna

UPC No.: 106963

PARCEL NO.	LANDOWNER	SHEET NO.	AREA								EASEMENTS								PROFFERS
			TOTAL	FEE TAKING		PRESCRIPTIVE R/W		FEE REMAINDER		PERMANENT		UTILITY		TEMPORARY		TEMPORARY(ENTRANCES)		
			ACRES OR SQUARE FEET	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	YES / NO
001	Troy W.Jr.and Kathleen B.Whitfield	3	30250											120				NO
002	Kevin S.and Vaishali Geib	3	30250											300				NO
003	Jonathan Glenn Kinard Tr.	3	30250											133				NO
004	Potomac Conference of 7th Day Adventists	3,4	30250											100				NO
005	Potomac Conference of 7th Day Adventists	4	33000											718				NO
006	Marjorie C.Latimer Tr.and Henry B.Latimer Tr.	4	33000											57				NO
007	Robert B.Mellor and Margaret A.Pfeifle	4	27674											245				NO
008	Kenneth Williams and Cecili Thompson Williams	4	16520											215				NO

	PROJECT	SHEET NO.
	U000-153-197	1A

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
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DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023.

SURVEY CONTROL & CONSTRUCTION ALIGNMENT

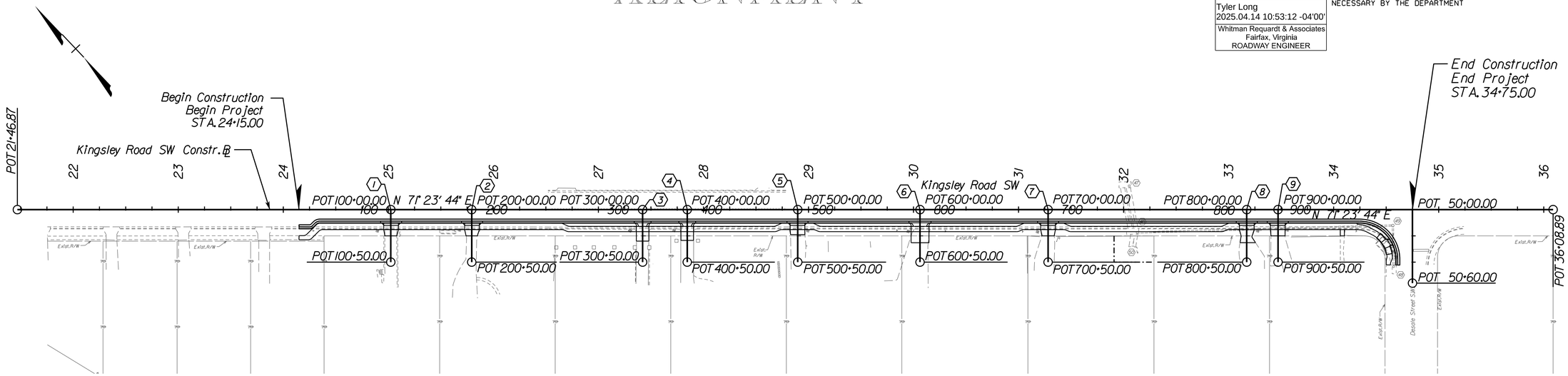
COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

Tyler Long
2025.04.14 10:53:12 -04'00'

Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	IB

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



SCALE
0 50' 100'

KINGSLEY ROAD S.W.

Beginning chain KINGSLEY description

Point KING001 N 7,009,002.05 E 11,836,765.75 Sta 21+46.87

Course from KING001 to KING002 N 71^ 23' 43.64" E Dist 1,462.02

Point KING002 N 7,009,468.48 E 11,838,151.37 Sta 36+08.89

Ending chain KINGSLEY description

ENTRANCE *1

Beginning chain ENTR1__EX description

Point 5 N 7,009,115.45 E 11,837,102.65 Sta 100+00.00

Course from 5 to 6 S 18° 36' 16.36" E Dist 50.00

Point 6 N 7,009,068.07 E 11,837,118.60 Sta 100+50.00

Ending chain ENTR1__EX description

ENTRANCE *2

Beginning chain ENTR2__EX description

Point 7 N 7,009,140.04 E 11,837,175.68 Sta 200+00.00

Course from 7 to 8 S 18° 36' 16.36" E Dist 50.00

Point 8 N 7,009,092.65 E 11,837,191.63 Sta 200+50.00

Ending chain ENTR2__EX description

ENTRANCE *3

Beginning chain ENTR3__EX description

Point 9 N 7,009,191.94 E 11,837,329.87 Sta 300+00.00

Course from 9 to 10 S 18° 36' 16.36" E Dist 50.00

Point 10 N 7,009,144.56 E 11,837,345.82 Sta 300+50.00

Ending chain ENTR3__EX description

ENTRANCE *4

Beginning chain ENTR4__EX description

Point 11 N 7,009,205.50 E 11,837,370.14 Sta 400+00.00

Course from 11 to 12 S 18° 36' 16.36" E Dist 50.00

Point 12 N 7,009,158.11 E 11,837,386.09 Sta 400+50.00

Ending chain ENTR4__EX description

ENTRANCE *5

Beginning chain ENTR5__EX description

Point 13 N 7,009,239.06 E 11,837,469.83 Sta 500+00.00

Course from 13 to 14 S 18° 36' 16.36" E Dist 50.00

Point 14 N 7,009,191.67 E 11,837,485.79 Sta 500+50.00

Ending chain ENTR5__EX description

ENTRANCE *6

Beginning chain ENTR6__EX description

Point 15 N 7,009,276.20 E 11,837,580.15 Sta 600+00.00

Course from 15 to 16 S 18° 36' 16.36" E Dist 50.00

Point 16 N 7,009,228.81 E 11,837,596.10 Sta 600+50.00

Ending chain ENTR6__EX description

ENTRANCE *7

Beginning chain ENTR7__EX description

Point 17 N 7,009,315.09 E 11,837,695.69 Sta 700+00.00

Course from 17 to 18 S 18° 36' 16.36" E Dist 50.00

Point 18 N 7,009,267.70 E 11,837,711.65 Sta 700+50.00

Ending chain ENTR7__EX description

① Sta. 100+00.00 ENTRANCE *1 ℄
Sta. 25+02.34 KINGSLEY ROAD S.W. ℄
△ = 90° 00' 00"

② Sta. 200+00.00 ENTRANCE *2 ℄
Sta. 25+79.40 KINGSLEY ROAD S.W. ℄
△ = 90° 00' 00"

③ Sta. 300+00.00 ENTRANCE *3 ℄
Sta. 27+42.09 KINGSLEY ROAD S.W. ℄
△ = 90° 00' 00"

④ Sta. 400+00.00 ENTRANCE *4 ℄
Sta. 27+84.59 KINGSLEY ROAD S.W. ℄
△ = 90° 00' 00"

⑤ Sta. 500+00.00 ENTRANCE *5 ℄
Sta. 28+89.78 KINGSLEY ROAD S.W. ℄
△ = 90° 00' 00"

⑥ Sta. 600+00.00 ENTRANCE *6 ℄
Sta. 30+06.18 KINGSLEY ROAD S.W. ℄
△ = 90° 00' 00"

⑦ Sta. 700+00.00 ENTRANCE *7 ℄
Sta. 31+28.09 KINGSLEY ROAD S.W. ℄
△ = 90° 00' 00"

⑧ Sta. 800+00.00 ENTRANCE *8 ℄
Sta. 33+17.21 KINGSLEY ROAD S.W. ℄
△ = 90° 00' 00"

⑨ Sta. 900+00.00 ENTRANCE *9 ℄
Sta. 33+47.02 KINGSLEY ROAD S.W. ℄
△ = 90° 00' 00"

ENTRANCE *8

Beginning chain ENTR8__EX description

Point 19 N 7,009,375.43 E 11,837,874.93 Sta 800+00.00

Course from 19 to 20 S 18° 36' 16.36" E Dist 50.00

Point 20 N 7,009,328.04 E 11,837,890.88 Sta 800+50.00

Ending chain ENTR8__EX description

ENTRANCE *9

Beginning chain ENTR9__EX description

Point 21 N 7,009,384.94 E 11,837,903.18 Sta 900+00.00

Course from 21 to 22 S 18° 36' 16.36" E Dist 50.00

Point 22 N 7,009,337.55 E 11,837,919.13 Sta 900+50.00

Ending chain ENTR9__EX description

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SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023

TRANSPORTATION MANAGEMENT PLAN

COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

Tyler Long
2026.03.30 12:39:23 -04'00'

Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	ID(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

PROJECT DESCRIPTION

THIS TASK CONSISTS OF THE DESIGN OF PEDESTRIAN IMPROVEMENTS ALONG KINGSLEY ROAD SW BETWEEN DESALE STREET SW AND COTTAGE STREET SW. THE PROPOSED IMPROVEMENTS INCLUDE: CURB, GUTTER, BUFFERED SIDEWALK, ROAD AND PRIVATE ENTRANCES, AS WELL AS UPGRADE TO THE EXISTING CURB RAMP AT THE INTERSECTION WITH DESALE STREET.

WITHIN THE PROJECT LIMITS, KINGSLEY ROAD SW IS AN URBAN LOCAL ROADWAY WITH A POSTED SPEED LIMIT OF 25 MPH. IN THE PROJECT AREA, KINGSLEY ROAD SW HAS ONE NORTHBOUND LANE AND ONE SOUTHBOUND LANE. TRAVELERS PRIMARILY INCLUDE COMMUTERS, RESIDENTS, AND LOCAL CONSUMER TRAFFIC. IMPROVEMENTS WILL OCCUR ADJACENT TO THE SOUTHBOUND LANE OF KINGSLEY ROAD SW AND ALONG THE FRONTAGE OF ADJACENT PROPERTIES. THE TRANSPORTATION MANAGEMENT PLAN SHALL BE UTILIZED TO MAINTAIN A MINIMUM OF ONE TRAFFIC LANE IN EACH DIRECTION.

ALLOWABLE HOURS FOR CLOSURES

THE CONTRACTOR SHOULD MAKE EVERY EFFORT TO MAINTAIN THE EXISTING TRAVEL LANES OPEN TO TRAFFIC AT ALL TIMES. LANE CLOSURES FOR CONSTRUCTION SHALL BE PERMITTED DURING THE FOLLOWING HOURS:

Lane Closure Guidelines – 2/29/2024 — *VDOT - NOVA*

6.12. SECONDARY ROADWAYS*

Average Daily Traffic (ADT)	Weekday: Single-Lane or Shoulder Closures	Weekday: Multiple-Lane Closures (if available)	Weekday: Complete Road Closure
3,000 – 9,999 vpd	9:00AM to 3:30PM 9:00PM to 5:00AM	10:00PM to 4:00AM	11:00PM to 4:00AM
1,000 – 2,999 vpd	9:00AM to 3:30PM 8:00PM to 5:00AM	9:00PM to 5:00AM	10:00PM to 4:00AM
1 – 999 vpd	8:00AM to 5:00PM 8:00PM to 5:00AM	9:00PM to 5:00AM	10:00AM to 2:00PM 10:00PM to 4:00AM
All lanes open at 2:00 PM on Friday			
	Weekend: Single-Lane or Shoulder Closures	Weekend: Multiple-Lane Closures (if available)	Weekend: Complete Road Closure
Friday to Saturday	9:00PM to 9:00AM	10:00PM to 7:00AM	10:00AM to 6:00AM
Saturday to Sunday	9:00PM to 9:00AM	10:00PM to 7:00AM	10:00AM to 6:00AM
Sunday to Monday	8:00PM to 5:00AM	9:00PM to 5:00AM	10:00AM to 4:00AM

* Nighttime noise ordinances shall remain in effect and will require separate review and approvals from the local jurisdiction, where applicable.

EXCEPT AS NECESSARY TO MAINTAIN TRAFFIC, WORK SHALL NOT BE PERFORMED ON THE FOLLOWING HOLIDAYS WITHOUT THE APPROVAL OF THE TOWN:
NEW YEAR'S DAY, MARTIN LUTHER KING, JR. DAY, LEE JACKSON DAY, PRESIDENTS DAY, EASTER, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, COLUMBUS DAY, VETERANS DAY, THANKSGIVING DAY, AND CHRISTMAS DAY. LANE CLOSURES WILL NOT BE PERMITTED FROM NOON THE DAY BEFORE A HOLIDAY UNTIL NOON THE DAY AFTER A HOLIDAY UNLESS OTHERWISE APPROVED BY THE ENGINEER. WHEN A HOLIDAY FALLS ON A FRIDAY, LANE CLOSURES ARE NOT PERMITTED FROM NOON THURSDAY UNTIL NOON ON MONDAY. WHEN THE HOLIDAY FALLS ON MONDAY, LANE CLOSURES ARE NOT PERMITTED FROM NOON FRIDAY UNTIL NOON ON TUESDAY. ADDITIONAL STATE HOLIDAYS MAY BE ADDED TO THIS LIST AT THE DIRECTION OF THE ENGINEER.

ACCESS TO AND FROM ALL ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

THE CONTRACTOR SHALL CONSULT WITH THE TOWN FOR ANY PLANNED CLOSURE SCENARIO NOT ANTICIPATED BY THIS TRANSPORTATION MANAGEMENT PLAN.

PUBLIC COMMUNICATIONS PLAN

THE CONTRACTOR SHALL SUBMIT A REQUEST FOR ALL LANE CLOSURES TO THE TOWN 10 DAYS IN ADVANCE OF THE CLOSURE. THE TOWN MAY COMMUNICATE WITH THE TOWN COUNCIL, SCHOOLS IN CLOSE PROXIMITY, EMERGENCY SERVICES, VDOT, AND THE TRAFFIC OPERATIONS CENTER, AS DETERMINED APPROPRIATE.

CONTRACTOR SHALL PROVIDE INTERMEDIATE FLAGGERS TO ALLOW ACCESS OUT OF DRIVEWAYS WITHIN WORKZONE.

SEQUENCE OF CONSTRUCTION

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

THE CONTRACTOR SHALL FOLLOW THE VIRGINIA WORK AREA PROTECTION MANUAL (WAPM) TO CONSTRUCT THE CURB AND GUTTER, SIDEWALK, DRAINAGE STRUCTURES, PRIVATE ENTRANCE, AND PAVEMENT RESURFACING. INSTALLATION OF SIGNING FOR PROJECT LIMITS SHALL BE IN ACCORDANCE WITH THE APPROPRIATE TTC FIGURE FOR THE WORK TO BE ACCOMPLISH IN ACCORDANCE WITH THE WAPM. CONSTRUCTION MAY NOT BE SIMULTANEOUSLY PERFORMED ON BOTH SIDES OF TRAFFIC.

THIS WORK WILL REQUIRE A SHOULDER OPERATION WITH MINOR ENCROACHMENT (LESS THAN 40 MPH) (FIGURE TTC-5.0)(MUTCD TA-6) AND A LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS (FIGURE TTC-23.0)(MUTCD TA-10).

GENERAL NOTES

1. THE TMP FOR THIS PROJECT IS CATEGORIZED AS TYPE A, CATEGORY 1.
2. UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN AND PROSECUTE THE WORK IN ACCORDANCE WITH THE WAPM AND THIS TRANSPORTATION MANAGEMENT PLAN.
3. IF THE CONTRACTOR DEVIATES FROM THE APPROVED TMP/MOT PLAN, THEY ARE REQUIRED TO SUBMIT A NEW TMP/MOT PLAN FOR REVIEW AND APPROVAL. WORK WILL ONLY BE APPROVED UNDER THE APPROVED TMP/MOT PLAN UNTIL THE NEW TMP/MOT PLAN IS APPROVED.
4. THE TMP/MOT, DURING CONSTRUCTION, SHALL BE IN ACCORDANCE WITH THE VDOT ROAD AND BRIDGE SPECIFICATIONS DATED 2020, THE VIRGINIA WORK AREA PROTECTION MANUAL VERSION 11.0 JANUARY 2026, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION, AND THE 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, REVISION 1 DATED SEPTEMBER 2013.
5. FOR DETAILS OF PERMANENT CONSTRUCTION, REFER TO THE CONSTRUCTION PLANS (SHEETS 3-4).
6. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO THE TOWN FOR APPROVAL. THE CONTRACTOR SHOULD REFER TO VIRGINIA'S WORK AREA PROTECTION MANUAL, SPECIFICALLY THE FOLLOWING STANDARDS:

   TTC-5.0 – SHOULDER OPERATION WITH MINOR ENCROACHMENT (LESS THAN 40 MPH)

   TTC-23.0 – LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS

7. A MINIMUM OF ONE TRAFFIC LANE IN EACH DIRECTION ON KINGSLEY ROAD SW SHALL BE OPEN TO TRAFFIC AT ALL TIMES.
8. PAVEMENT MARKINGS IN CONFLICT WITH THE LANE CONFIGURATIONS DURING CONSTRUCTION SHALL BE COVERED WITH NON-REFLECTIVE REMOVABLE BLACK TAPE, AND RESTRIPED AS NECESSARY.
9. CONTRACTOR SHALL MAINTAIN SAFE PASSAGE FOR PEDESTRIANS AND BICYCLISTS DURING CONSTRUCTION WHERE EXISTING FACILITIES ARE PRESENT.
10. THE CONTRACTOR SHALL MAINTAIN ALL SIGNAGE WITHIN THE LIMITS OF CONSTRUCTION, SHOWN OR OTHERWISE, UNLESS DIRECTED BY THE ENGINEER. IF REMOVAL IS ALLOWED, CONTRACTOR SHALL STORE THE SIGNS PER VDOT STANDARDS, AND IF DIRECTED, REPLACE THEM AT THE COMPLETION OF THE PROJECT.
11. CONTRACTOR IS TO ENSURE POSITIVE DRAINAGE FOR THE DURATION OF THE PROJECT. ADDITIONAL TEMPORARY MEASURES MAY BE NEEDED TO FACILITATE PROPER POSITIVE DRAINAGE.
12. THE CONTRACTOR SHALL SCHEDULE ALL PHASES OF CONSTRUCTION IN SUCH A MANNER THAT WATER, SEWER, CABLE, POWER, AND ANY OVERHANGING UTILITY AND ANY UNDERGROUND UTILITY SERVICES WILL NOT BE INTERRUPTED. THE COST OF ANY TEMPORARY CONNECTION, IN PART OR WHOLE, SHALL BE INCIDENTAL TO THE UTILITY RELOCATION/CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE HIS UTILITY ADJUSTMENTS/RELOCATION ACTIVITIES WITH THE OWNER OF THE UTILITY.
13. DISPOSAL SITE AND STAGING AREA LOCATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO WORK SHALL BE PERFORMED UNTIL SUCH SITES HAVE BEEN ACCEPTED BY THE ENGINEER.
14. TEMPORARY LANE WIDTHS SHALL NOT BE LESS THAN 10 FEET.
15. ACCESS TO TEMPORARY BUS STOPS AND REASONABLE SAFE TRAVEL ACROSS INTERSECTIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE CONSIDERED DURING CONSTRUCTION PER THE 2009 MUTCD AND THE VIRGINIA WORK AREA PROTECTION MANUAL DATED JULY 2011, REVISION 1, DATED APRIL 2015.
16. EQUIPMENT AND/OR MATERIALS SHALL NOT BE STORED WITHIN THE ESTABLISHED CLEAR ZONE OF EITHER THE TRAVEL LANES, AND/OR THE DEFLECTION ZONE OF PHYSICAL BARRIERS USED DURING CONSTRUCTION.
17. ALL TRAFFIC CONTROL DEVICES AND SIGNS NECESSARY FOR MAINTENANCE OF TRAFFIC ARE TO BE INSTALLED, MAINTAINED AND REMOVED BY THE CONTRACTOR AND WILL BE PAID FOR UNDER BID ITEM "MAINTENANCE OF TRAFFIC (LS)".
18. WHEN STATE POLICE PRESENCE IS REQUIRED FOR A LANE CLOSURE OPERATION, THE ENGINEER SHALL CONTACT THE VIRGINIA STATE POLICE DIVISION SEVEN HEADQUARTERS, 4977 ALLIANCE DRIVE, FAIRFAX, VIRGINIA, 22030. TELEPHONE 703-803-2660 TO REQUEST STATE POLICE SUPPORT AND GIVE THE STATE POLICE A MINIMUM OF 5 DAYS ADVANCE NOTICE. THE ENGINEER SHALL NOTIFY THE STATE POLICE OF ANY CANCELLATION AT LEAST 24 HOURS IN ADVANCE TO AVOID ADDITIONAL CHARGES. THE COST OF STATE POLICE SUPPORT SHALL BE INCLUDED IN THE COST OF PROJECT MOBILIZATION.

Virginia Department of Transportation
REVIEW OF WORKING DRAWINGS
Working drawings have been reviewed in accordance with Section 105.10 2020 VDOT Road & Bridge Specifications

X REVIEW COMPLETED
____ CORRECT & RESUBMIT
____ REJECTED - SEE REMARKS

Reviewed by:_____ Date:_____

REVIEWED
By Brian E. Fry at 6:44 am, May 13, 2026

Commonwealth of Virginia VDOT
Virginia Department of Transportation
VERIFICATION OF COMPLETION OF VDOT ADVANCED WORK ZONE TRAFFIC CONTROL TRAINING

This is to verify that Tyler L. Long has successfully completed training and an examination by the Department on the proper practices and methods for the installation, maintenance, removal of temporary traffic control devices and flagging operations.

Expiration Date: 4/30/2029
Verification Number: 041025259
State Traffic Ops Eng

	PROJECT	SHEET NO.
	U000-153-197	ID(1)

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, JANUARY, 2023
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023

TRANSPORTATION MANAGEMENT PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	ID(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Notes for Shoulder Work with Minor Encroachment (Less than 40 mph) (Figure TTC-5.0) *(MUTCD TA-6)*

Guidance:
1. [Paragraph Deleted]
1a. If the closure operation is on a Limited Access highway, the minimum lane width is 11 feet. The minimum lane width is 10 feet for all other roads.
2. [Paragraph Deleted]

Option:
3-11. [Paragraphs Deleted]
11a. The ROAD WORK AHEAD (W20-1) sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.

Standard:
12-14. [Paragraphs Deleted]
15. See Table 6P-V5 for taper lengths and Table 6P-V8 for channelizing device spacing.
16. On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.
17. The buffer space length shall be as shown in Table 6P-V4 for the speed limit.
18. When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.

Notes for Lane Closure on a Two-Lane Road Using Flaggers (V) (Figure TTC-23.0) *(MUTCD TA-10)*

Option:
1. Positive protection devices may be used per Section 6M.02.

Guidance:
1a. If necessary, the buffer space should be extended so that flaggers are placed where motorists will have a clear line of sight from the graphic flagger symbol sign to the flagger, and where motorists views of queued vehicles will not be blocked by hill crests or horizontal curves.

Option:
1b. Cones may be eliminated from the buffer space and work space areas when using a pilot vehicle operation or when the total roadway width is 20 feet or less.

Standard:
1c. Channelizing devices shall be provided to form the tapers, regardless of road width.

Guidance:
1d. To maintain efficient traffic flow in a flagging operation on a two-lane roadway, motorists should not be stopped more than 10 minutes at flagger stations. For additional information see Section 6D.05.

Standard:
1e. Portable Temporary Rumble Strips (PTRS) shall be used as noted in Section 6M.06.
1f. Flagging stations shall be located far enough in advance of the work space to permit approaching traffic to reduce speed and/or stop before passing the work space and allow sufficient distance for departing traffic in the left lane to return to the right lane before reaching opposing traffic (see Table 6P-V4).
1g. All flaggers shall be state certified and have their certification card in their possession when performing flagging duties (see Section 6D.01, Qualifications for Flaggers).
1h. Cone spacing shall be based on the posted speed and the values in Table 6P-V8.
1i. A shadow vehicle shall be parked 80 to 120 feet in advance of the first work crew.

Option:
2. For low-volume situations with short TTC zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6D).
2a. Where a buffer space significantly greater than minimum must be provided so that the flagger is positioned to where he has adequate visibility as per paragraph 01a, a 48" x 48" SLOW (W21-V40) sign should be positioned approximately halfway between the flagger and the start of the work space.
3. The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short-duration operations.
4. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
5. [Paragraph Deleted]
5a. See TTC-69.0 for requirements for flagging with AFADs.

Guidance:
6. [Paragraph Deleted]

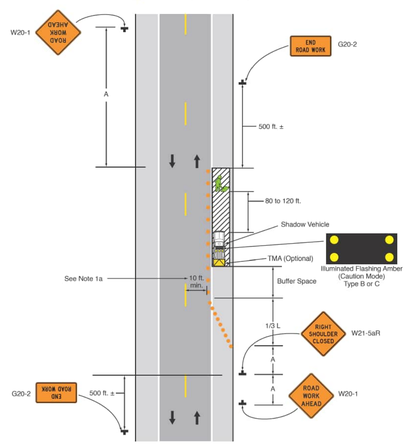
Standard:
7. At night, flagger stations shall be illuminated, except in emergencies.

Guidance:
8. [Paragraph Deleted]
8a. If the queue of traffic reaches the BE PREPARED TO STOP (W3-4) sign, then the signs and PTRS should be readjusted at greater distances.
9. When a highway-rail grade crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the highway-rail grade crossing, the temporary traffic control zone should be extended so that the transition area precedes the highway-rail grade crossing (see Figure TTC-56.0 for additional information on highway-rail crossings).
10. When a grade crossing equipped with active warning devices exists within the activity area, provisions should be made for keeping flaggers informed as to the activation status of these warning devices.
11. When a grade crossing exists within the activity area, drivers operating on the left-hand side of the normal center line should be provided with comparable warning devices as for the drivers operating on the right-hand side of the normal center line.
12. Early coordination with the railroad company or transit agency should occur before work starts.

Option:
13. A flagger or a uniformed law enforcement officer may be used at the grade crossing to minimize the probability that vehicles are stopped within 15 feet of the grade crossing, measured from both sides of the outside rails.

Standard:
14. When used, three PTRS strips shall be installed across the entire travel lane adjacent to the BE PREPARED TO STOP (W3-4) sign. The PTRS shall be monitored and adjusted as necessary during the work shift to ensure proper placement on the roadway. When the PTRS are installed, the RUMBLE STRIPS AHEAD (W20-V26) sign shall also be used.

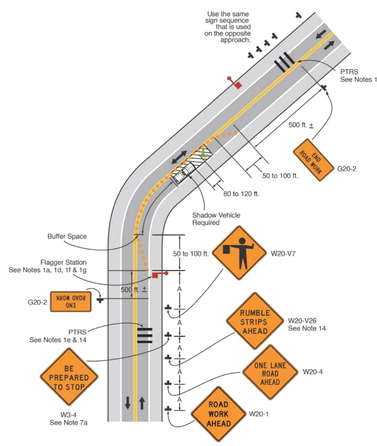
Shoulder Work with Minor Encroachment (40 mph or Less)
Figure TTC-5.0 *(MUTCD TA-6)*



Note: See Table 6P-2 for the meanings of the symbols used in this figure.
See Table 6P-V3 for sign spacing requirements ("A").
See Tables 6P-V5 through 6P-V7 for taper length requirements.
See Table 6P-V8 for channelizing device spacing requirements.

Known Error (V-Shift)

Lane Closure on a Two-Lane Road Using Flaggers
Figure TTC-23.0 *(MUTCD TA-10)*



Note: See Table 6P-2 for the meanings of the symbols used in this figure.
See Table 6P-V3 for sign spacing requirements ("A").
See Tables 6P-V5 through 6P-V7 for taper length requirements.
See Table 6P-V8 for channelizing device spacing requirements.

	PROJECT	SHEET NO.
	U000-153-197	ID(2)

3/30/2026
11:05:46 AM

d10696300ID(3).dgn
Plotted By: tlong

PROJECT MANAGER: ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE: RICE ASSOCIATES, (703) 968-3200, JANUARY, 2023.
DESIGN BY: WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE: RICE ASSOCIATES, JANUARY 2023.

TRANSPORTATION MANAGEMENT PLAN
PHASE I

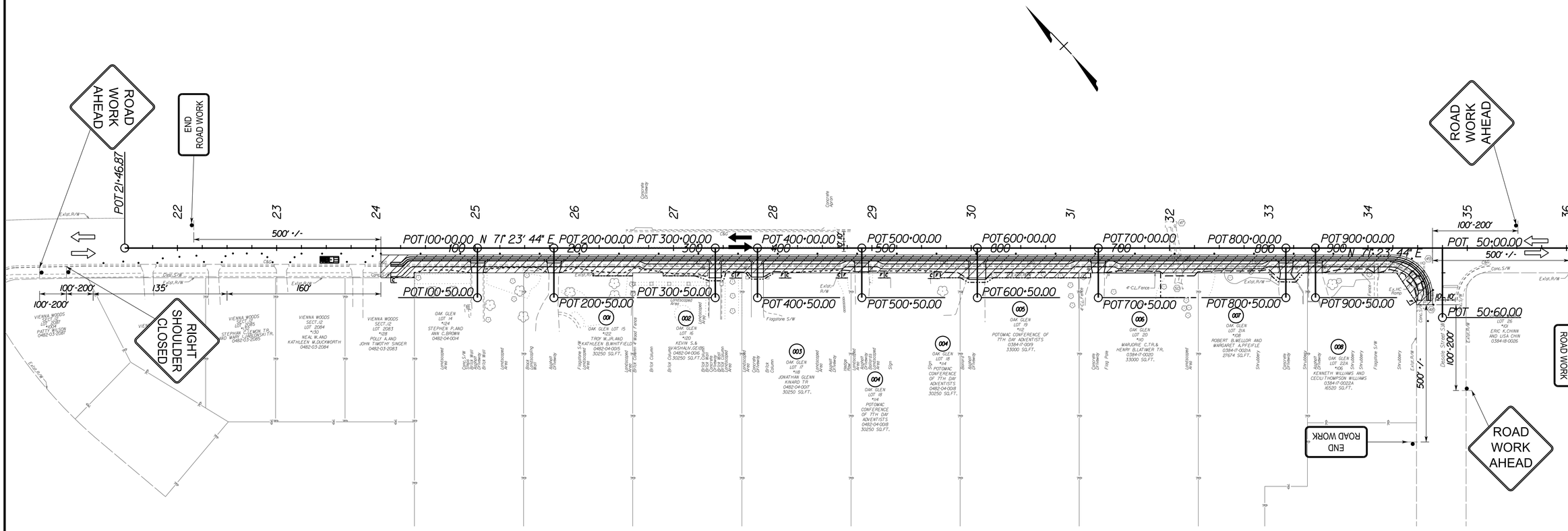
COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

Tyler Long
2026.04.10 13:57:25 -04'00'

Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	ID(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



NOTES:

1.) SHOULDER CLOSURE OF SOUTHBOUND KINGSLEY ROAD SW SHALL BE IN ACCORDANCE WITH TTC-5.0 OF THE WAPM.

2.) CONTRACTOR SHALL MAINTAIN ACCESS TO ENTRANCES AND SAFE PASSAGE FOR PEDESTRIANS/BICYCLISTS DURING CONSTRUCTION WHERE EXISTING FACILITIES ARE PRESENT.

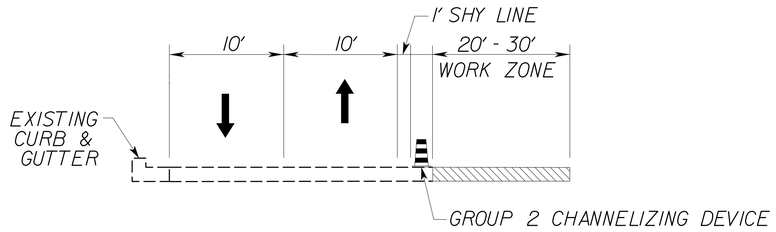
3.) EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY LANE CLOSURE SHALL BE COVERED WITH REMOVABLE, NON-REFLECTIVE, PREFORMED TAPE IN ACCORDANCE WITH THE VA WAPM SECTION 6F.85.

4.) TTC DEVICE SPACING NOT SHOWN TO SCALE.

5.) THE CONTRACTOR SHALL COORDINATE WITH THE TOWN TO PLACE TEMPORARY NO PARKING SIGNS PRIOR TO THE WORK FOR COMPLETION OF THE DAY ALONG KINGSLEY ROAD SW.

6.) SHADOW VEHICLE IS TO BE PLACED SO AS NOT TO BLOCK THE LINE OF SIGHT OF THE ENTRANCES.

WORK ZONE AREA
GROUP 2 CHANNELIZING DEVICE
SIGN
EXISTING DIRECTION OF TRAVEL
TEMPORARY DIRECTION OF TRAVEL
SHADOW VEHICLE
FLAGGER



SOUTHBOUND KINGSLEY ROAD SW
SPEED LIMIT = 25 MPH
STA.24+15 TO STA.34+75

SCALE
0 50' 100'

	PROJECT	SHEET NO.
	U000-153-197	ID(3)

3/30/2026
11:09:10 AM

d10696300ID(4).dgn
Plotted By: tlong

PROJECT MANAGER: ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE: BICE ASSOCIATES, (703) 968-3200, JANUARY 2023
DESIGN BY: WHITMAN, REQUARDT & ASSOCIATES, LLP, (703) 293-9717
SUBSURFACE UTILITY BY, DATE: RICE ASSOCIATES, JANUARY 2023

TRANSPORTATION MANAGEMENT PLAN
PHASE II

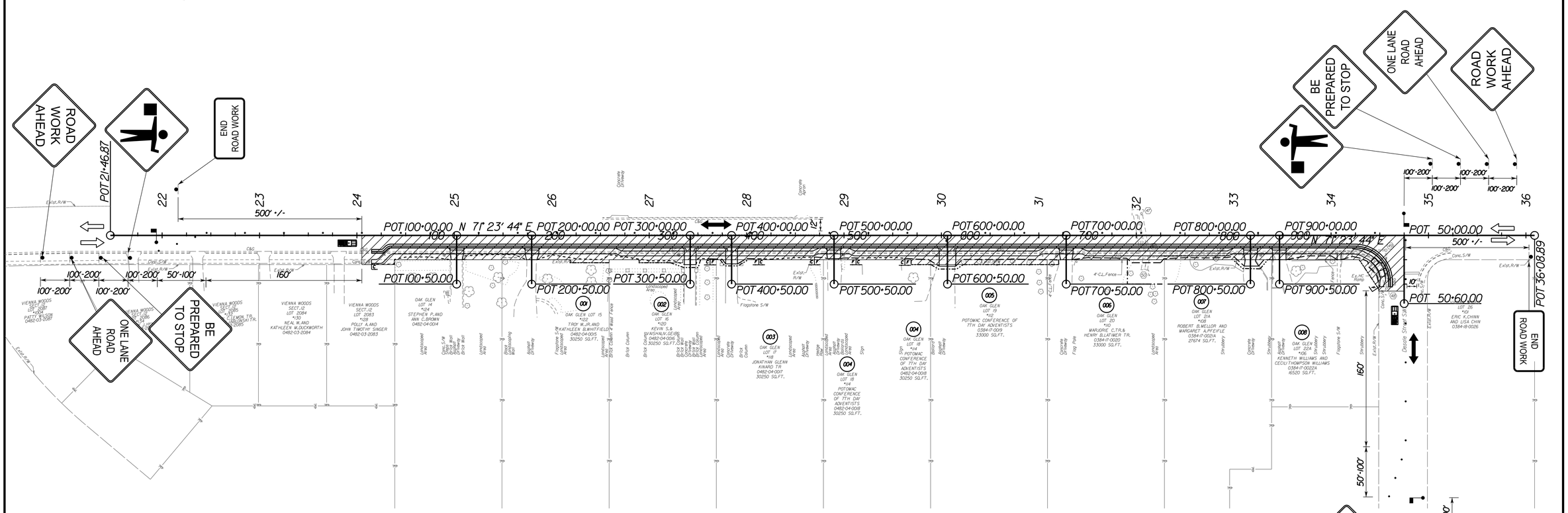
COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

Tyler Long
2026.03.30 12:45:33 -04'00'

Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	ID(4)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



NOTES:

1.) LANE CLOSURE OF KINGSLEY ROAD SW SHALL BE IN ACCORDANCE WITH TTC-23.0 OF THE WAPM.

2.) CONTRACTOR SHALL MAINTAIN ACCESS TO ENTRANCES AND SAFE PASSAGE FOR PEDESTRIANS/BICYCLISTS DURING CONSTRUCTION WHERE EXISTING FACILITIES ARE PRESENT.

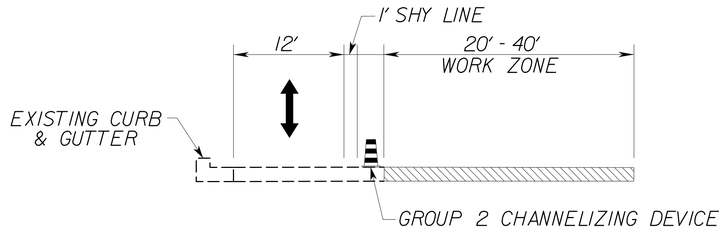
3.) EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY LANE CLOSURE SHALL BE COVERED WITH REMOVABLE, NON-REFLECTIVE, PREFORMED TAPE IN ACCORDANCE WITH THE VA WAPM SECTION 6F.85.

4.) TTC DEVICE SPACING NOT SHOWN TO SCALE.

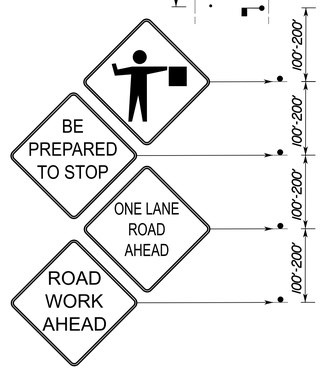
5.) THE CONTRACTOR SHALL COORDINATE WITH THE TOWN TO PLACE TEMPORARY NO PARKING SIGNS PRIOR TO THE WORK FOR COMPLETION OF THE DAY ALONG KINGSLEY ROAD SW.

6.) SHADOW VEHICLE IS TO BE PLACED SO AS NOT TO BLOCK THE LINE OF SIGHT OF THE ENTRANCES.

WORK ZONE AREA
GROUP 2 CHANNELIZING DEVICE
SIGN
EXISTING DIRECTION OF TRAVEL
TEMPORARY DIRECTION OF TRAVEL
SHADOW VEHICLE
FLAGGER



SOUTHBOUND KINGSLEY ROAD SW
SPEED LIMIT = 25 MPH
STA. 24+15 TO STA. 34+75



SCALE
0 50' 100'

PROJECT	SHEET NO.
U000-153-197	ID(4)

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, JANUARY, 2023.
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023

GENERAL NOTES & TYPICAL DETAILS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	2

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

GRADING GENERAL NOTES

1. Earthwork quantities on this project are based on anticipated settlement and may require adjusting during construction.
2. The cost of removal of all existing concrete items located in the area to be graded, including, but not limited to the following, shall be included in the price bid for regular excavation: curb and gutter, concrete aprons, sidewalk

DRAINAGE GENERAL NOTES

1. When Mod. CG-6 (see Town's detail this sheet) is specified on a radius (such as at a street intersection), the Town may approve a change in the cross slope of the gutter to facilitate proper drainage.
2. The horizontal location of all drainage structures shown on these plans is approximate only, with the exception of structures showing specific stations, special design bridges and storm sewer systems.
3. The "H" dimensions shown on the plans for drop inlets and junction boxes and the "L.F." dimensions shown for manholes are for estimating purposes and are based on the proposed invert elevations shown for the structure and the anticipated top (rim) elevation based on existing or proposed finished grade. The actual "H" or "L.F." dimensions are to be determined by the contractor from field conditions.
4. All pipe on this project shall be RCP. For strength, sheet thickness, or class designation, available sizes, height of cover limitations and other restrictions for a particular pipe type or height of cover, see the applicable sections of the VDOT Road and Bridge Standards PC-1.
5. Existing drainage facilities being utilized as part of the drainage system, and designated on the plans "To Be Cleaned Out", shall be cleaned as directed by the Town. The cost incidental to this shall be included in the contract price for other items.
6. Where the plans specify the installation of standard curb drop inlets adjacent to the Town of Vienna Standard Curb and Gutter, the Standard Drop Inlets (as shown in the VDOT Road and Bridge Standards) shall be modified in accordance with details shown on this sheet. These drop inlets shall be considered and paid for as Standard Drop Inlets for the type specified.

INCIDENTALS GENERAL NOTES

1. Certain trees shall be preserved as noted on plans or as directed by the Town.
2. When standard slope roundoffs would damage trees, bushes, or other desirable vegetation, they shall be omitted when so ordered by the Town.
3. Clearing and grubbing shall be confined to those areas needed for construction. No trees or shrubs in ungraded areas shall be cut without the permission of the Town.
4. The following outside sources, under contract with the Town, have provided information on this project:
   - Roadway Design — Whitman, Requardt & Associates, LLP
   - Survey — Rice Associates
   - Utility Designation — Rice Associates

   If questions arise during construction, please contact the Town. DO NOT CONTACT THE OUTSIDE SOURCES.
5. All electronic plan assemblies will include the construction plans in one format: .pdf files. Only the .pdf files will be considered as part of the official plan assembly.

UTILITIES GENERAL NOTES

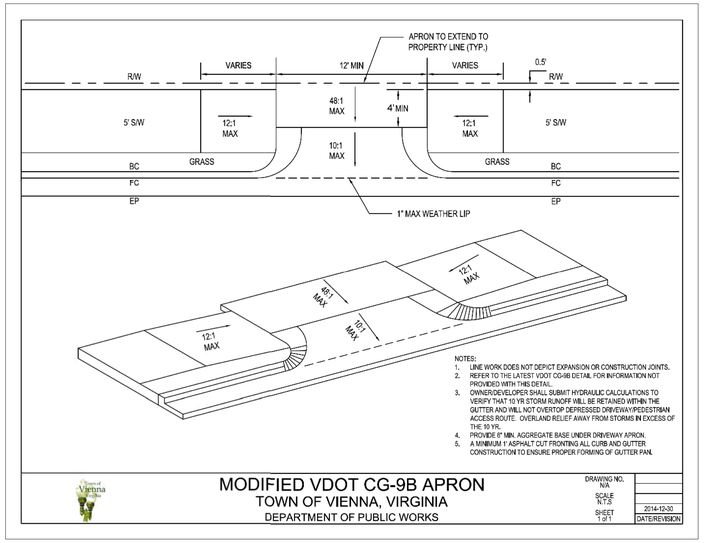
1. The utility information shown on these plans is taken from information provided by an underground utility designating and locating company and in some cases, from information received from the utility companies. The Town does not guartantee that the utility information shown on the plans is complete or accurate. The Contractor must verify the utility locations prior to construction.
2. All existing underground utilities shall be marked in the field by Miss Utility prior to construction. The Contractor shall be responsible for scheduling the field marking of utilities with Miss Utility.
   Miss Utility 1-800-552-7011 or 811 VA811.com
3. All existing underground utilities shall be physically located by the Contractor prior to the beginning of any construction in the vicinity of these utilities.

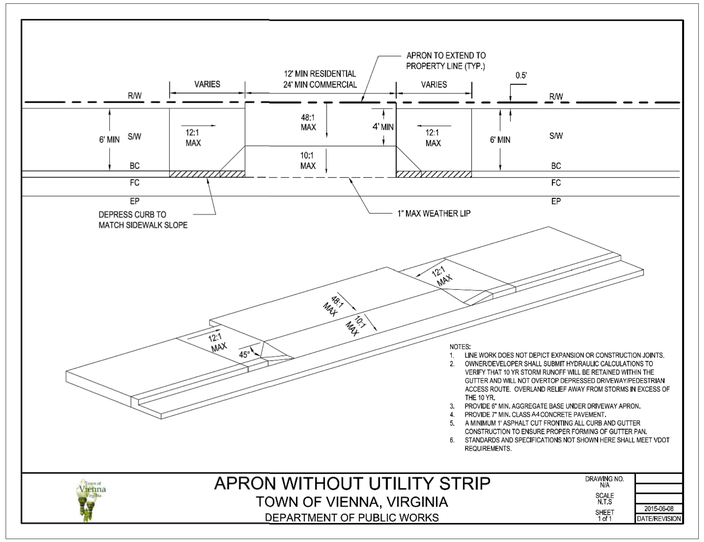
PAVEMENT GENERAL NOTES

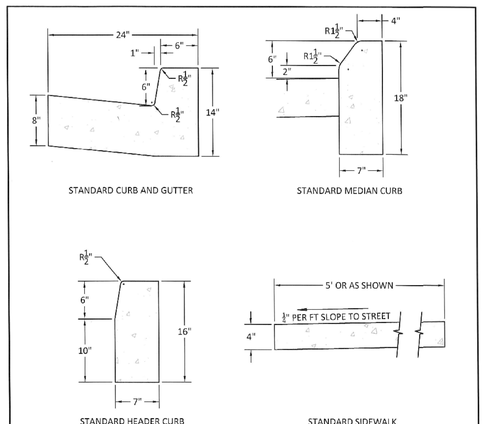
1. The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of the theoretical maximum density.

TOWN OF VIENNA GENERAL NOTES

1. A Pre-Construction meeting must be held prior to the start of construction. The Contractor shall contact the Town to schedule the Pre-Construction meeting.
2. All construction generated debris must be hauled away by the Contractor.
3. Prior to the removal of any Town trees (trees within the Right of Way), the Contractor shall contact the Town arborist to coordinate having the Town arborist onside during all Town tree removal.
4. Tree protection for any Town tree, if shown on the plan, must be installed prior to any work.
5. Clearing, grubbing, tree removal, root pruning and tree protection shall be in accordance with VDOT Road and Bridge Specifications and the Town's PFM and Tree Preservation and Planting Guide. The Contractor shall coordinate with the Town and property owners as directed by the Town prior to commencing any of these activities.
6. After construction is complete all disturbed area shall be sodded and mulched in accordance with Sec. 3.33 and 3.35 of the Virginia Erosion and Sediment Control Handbook.







PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, JANUARY, 2023
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023

TYPICAL SECTIONS
NOT TO SCALE

COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

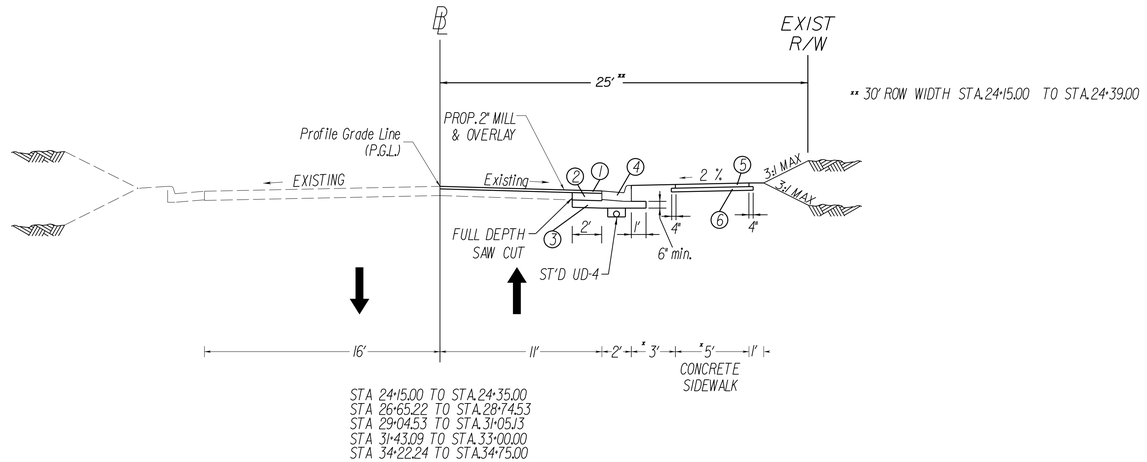
Tyler Long
2026.05.28 08:52:54 -04'00'

Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	2A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

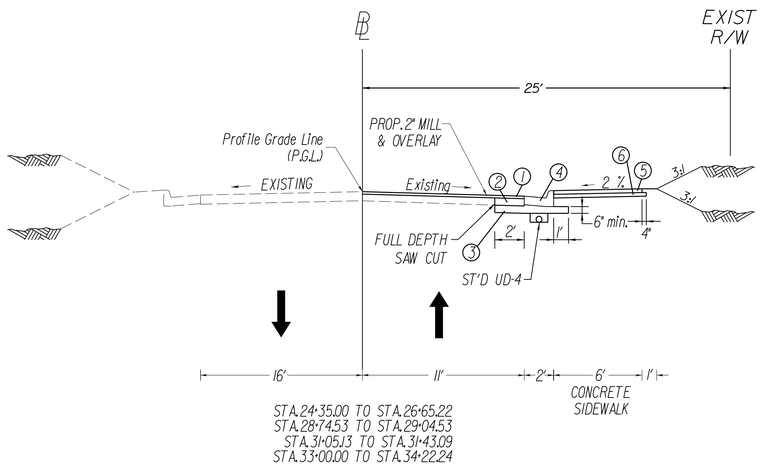
KINGLSEY ROAD SW



STA 24+15.00 TO STA.24+35.00
STA 26+65.22 TO STA.28+74.53
STA 29+04.53 TO STA.31+05.13
STA 31+43.09 TO STA.33+00.00
STA 34+22.24 TO STA.34+75.00

* SIDEWALK TRANSITIONS FROM EXISTING TO 6' WIDE STA.24+15.00 TO STA.24+35.00
BUFFER STRIP TRANSITIONS FROM EXISTING TO 0' STA.24+15.00 TO STA.24+29.11

KINGSLEY ROAD SW



STA.24+35.00 TO STA.26+65.22
STA.28+74.53 TO STA.29+04.53
STA.31+05.13 TO STA.31+43.09
STA.33+00.00 TO STA.34+22.24

Notes:

1.) For cross slopes, see cross sections.

2.) All pavement widening shall be performed in accordance with standard WP-2.

PAVEMENT SECTION

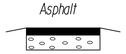
(1) SURFACE - 2" ASPHALT CONCRETE, TYPE SM-9.5A ESTIMATED @ 230 LBS/SY
(2) BASE - 6.5" ASPHALT CONCRETE TYPE BM-25.0
(3) MIN. 8" AGGREGATE BASE MATERIAL TYPE I SIZE 21B, OR EXTENDED TO THE BOTTOM OF EXISTING AGGREGATE, WHICHEVER IS GREATER
(4) TOV STD. CURB AND GUTTER
(5) 4" HYDRAULIC CEMENT CONCRETE CLASS A4 SIDEWALK REQ'D
(6) 4" AGGREGATE BASE MATERIAL SIZE 21B

PRIVATE ENTRANCES

TYPE II
Concrete

Concrete Entrance Pavement
7" HES
4" Aggr. Base Mat'l. Ty. I
No. 21A or 21B

TYPE III
Asphalt



Asphalt Conc. Type
SM-9.5A or SM-9.5D @ 220 Lbs. per S.Y.
4" Aggr. Base Mat'l. Ty. I
No. 21A or 21B

NOT TO SCALE

The type of entrance (II or III) to be constructed will be determined by the existing condition at the time of construction.

	PROJECT	SHEET NO.
	U000-153-197	2A

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, JANUARY, 2023
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023

GEOMETRIC LAYOUT

COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

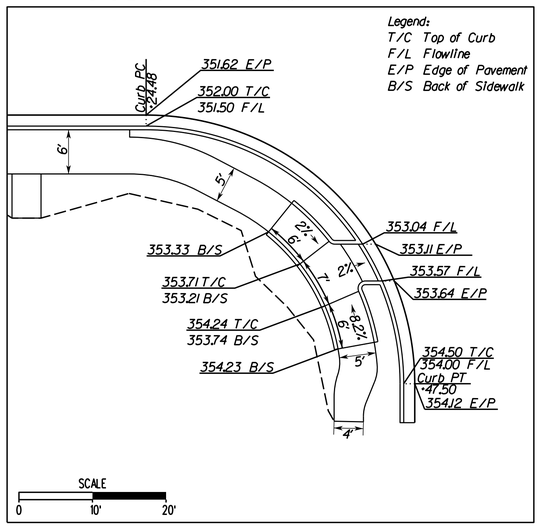
Tyler Long
2025.04.17 08:03:55 -04'00'

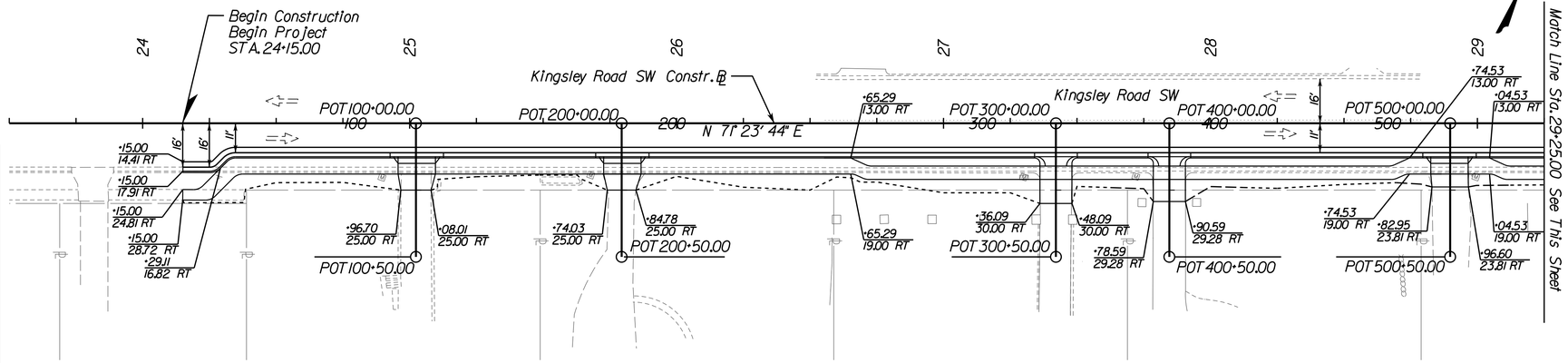
Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

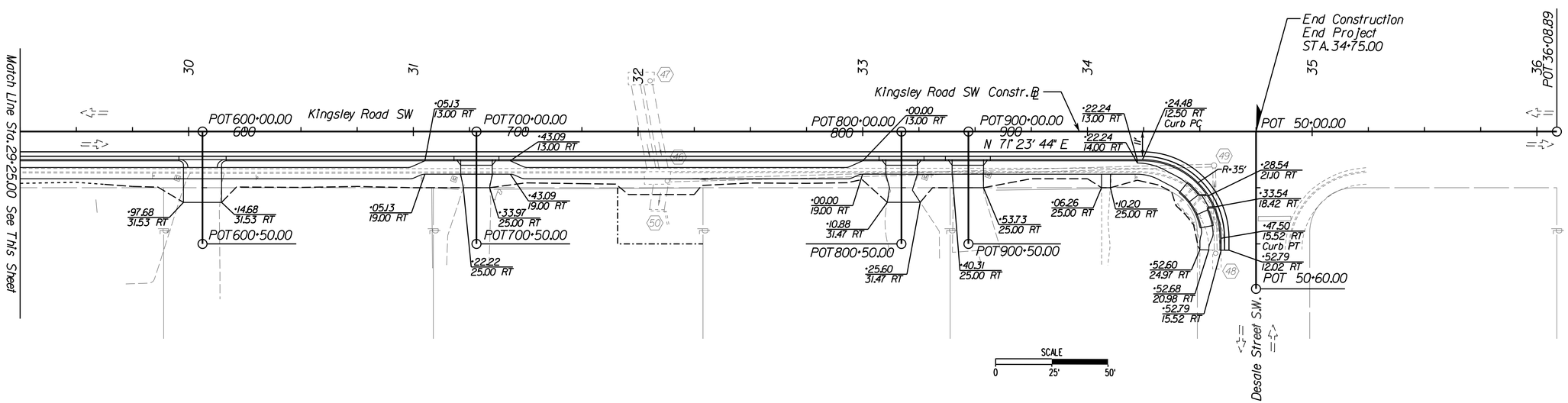
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	2B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

CURB RETURN DETAIL







	PROJECT	SHEET NO.
	U000-153-197	2B

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES (703) 968-3200, JANUARY 2023
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023

STORM DRAINAGE AND SWM NARRATIVE

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	2C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
Lic. No. 018547
PROFESSIONAL ENGINEER

David S Gertz
2025.04.15 12:33:57 -04'00'
Whitman Requardt & Associates
Richmond, Virginia
HYDRAULIC ENGINEER

KINGSLEY ROAD DRAINAGE/SWM NARRATIVE

Introduction:

The purpose of this project is to provide pedestrian safety improvements. The project proposes construction of curb and gutter and a new 5-foot wide concrete sidewalk along the south side of Kingsley Road between Cottage Street SW and Desale Street SW. The length of the project is approximately 1050 linear feet.

This project is located in the Town of Vienna. All roadways and features are maintained by the Town of Vienna.

Existing Conditions:

Under existing conditions, the drainage within the project limits is conveyed through existing curb and gutter on the south side of Kingsley Road SW and there is existing curb and gutter on the north side of Kingsley Road SW. The high point is located at Station 24+00. The runoff draining to the east of the high point flows down Kingsley Road. At Station 32+00, there is an existing curb sump inlet (EX46) that takes the existing runoff from the high point to the west at Station 24+00 and the runoff from the intersection at Desale Street SW. Additionally, the offsite drainage area to the project at the existing inlet EX47 is approximately 0.25 square miles. Existing inlets EX47 and EX48 will not be capturing runoff from the project. There is no reported history of flooding or spread issues at the project location. The project is located in a FEMA Floodplain (Zone A Approximate), but is not creating new fill; therefore, there is no impact to the flood elevations.

Land Use and Soils Information:

The site is located within RS-16 Residential Land Use Zoning in the Town of Vienna. Soils information below is provided based on Fairfax County Soils Map 38-4 for the project area.

SOIL ID NUMBERS	SOIL SERIES NAME	FOUNDATION SUPPORT	SOIL DRAINAGE	EROSION POTENTIAL	PROBLEM CLASS
105B	WHEATON-GLENELG COMPLEX	GOOD	GOOD	HIGH	IVB
105C	WHEATON-GLENELG COMPLEX	GOOD	GOOD	HIGH	IVB
108B	WHEATON-SUMERDUCK COMPLEX	MARGINAL-W,B	POOR-W,S	MEDIUM	IVB
30A	CODORUS AND HATBORO SOILS	POOR-F,W,B	POOR-W,F	LOW	III
93B	SUMERDUCK LOAM	MARGINAL-W,B	POOR-W	MEDIUM	II

Proposed Conditions:

Under the proposed conditions, the high point remains at the same location and the drainage patterns to the sump location also remain the same along both sides of Kingsley Road. Due to the project improvements, proposed structures 4-1, 4-2, 4-3, 4-4, and 4-5 are proposed to convey the runoff along the south side of Kingsley Road. The drainage areas to EX47 and EX48 are unchanged in the proposed condition. The project is not located within the Cheasapeake Bay Preservation Area.

Drainage Design Criteria:

Kingsley Road SW is an urban local street road with a design speed of 20 mph. The curb inlet design requirements are based on a rainfall intensity of 4 in/hr. The project is on grade draining to a sump. The maximum allowable spread is half of the travel lane plus the gutter width. The allowable spread for this project is 6.92 feet for this project (17"gutter pan + one-half of the 11' travel lane). The 10-year storm event is used for the design of the proposed, and analysis of existing storm sewer system. The project uses the standard VDOT Location and Design forms for storm sewer design computations. Microsoft Excel is utilized to perform the LD form computations to analyze proposed and existing drainage systems in accordance with the VDOT Drainage Manual.

Stormwater Management Analysis:

The project disturbs 0.45 acres. This project increases the impervious area by 0.03 acres. A limits of disturbance map is shown on Sheet 2D.
Since this project disturbs less than 1 acre it is not subject to a VSMP permit. As a result, water quality and quantity are not required for this project.

Storm Drainage Computations:

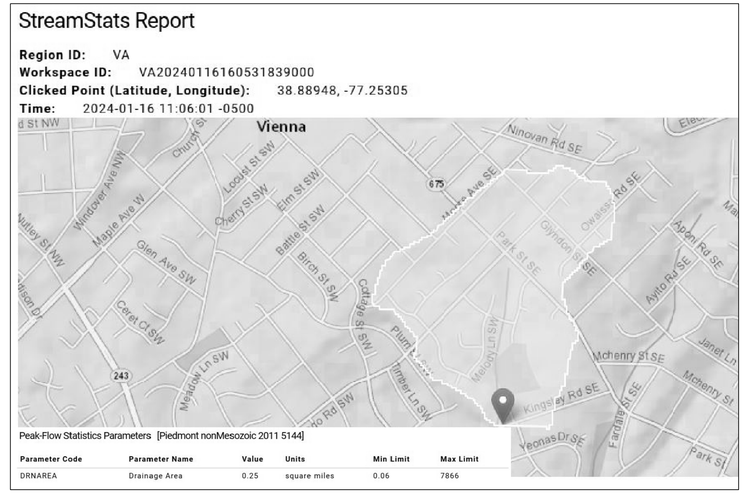
This project proposes two curb inlets, pipe, manhole and conversion of an existing curb inlet to a junction box. The proposed closed system has been analyzed and the storm sewer (LD-229), inlet (LD-204), and hydraulic grade line (LD-347) computations have been provided on this sheet. The proposed system is found to have enough capacity to convey the 10-year storm, the hydraulic grade line found to be contained within the system, and the inlet spreads are less than the allowable spread.

Outfall Analysis:

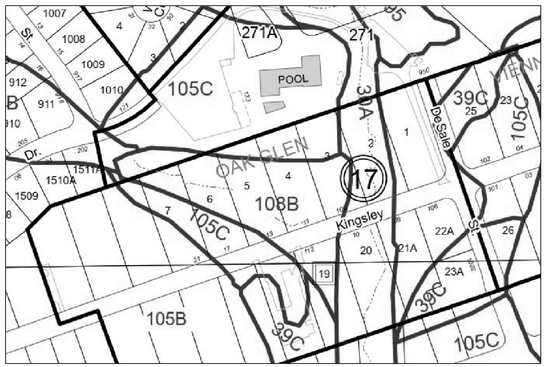
The outfall for the project is a ditch located at Station 32+00 that flows south of the project site. Under the proposed conditions, the proposed curb gutter and sidewalk will be draining to this ditch. The area of the limits of disturbance of the project draining to the outfall is 0.43 acres. The overall drainage area to the outfall was measured using the USGS StreamStats application and was determined to be 0.25 square miles (160 acres). The total limits of disturbance of 0.43 acres is less than 1% of the total drainage area to the outfall; therefore the outfall is adequate and satisfies the requirements of the 1% rule and no further adequacy analyses are required under the Part II-B criteria.

Erosion and Sediment Control:

Erosion and sediment control (ESC) measures are provided with a single phase. The erosion and sediment control requirements are satisfied by a combination of inlet protection and silt fence. Inlet protection will be added to existing and proposed inlets. Temporary silt fence is proposed along the project limits.



OVERALL DRAINAGE AREA (USGS STREAMSTATS)



FAIRFAX COUNTY SOILS MAP 38-4 AT PROJECT LOCATION

FEMA FLOODPLAING MAP AT PROJECT LOCATION

PROJECT	SHEET NO.
U000-153-197	2C

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, JANUARY 2023
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023

LIMITS OF DISTURBANCE MAP

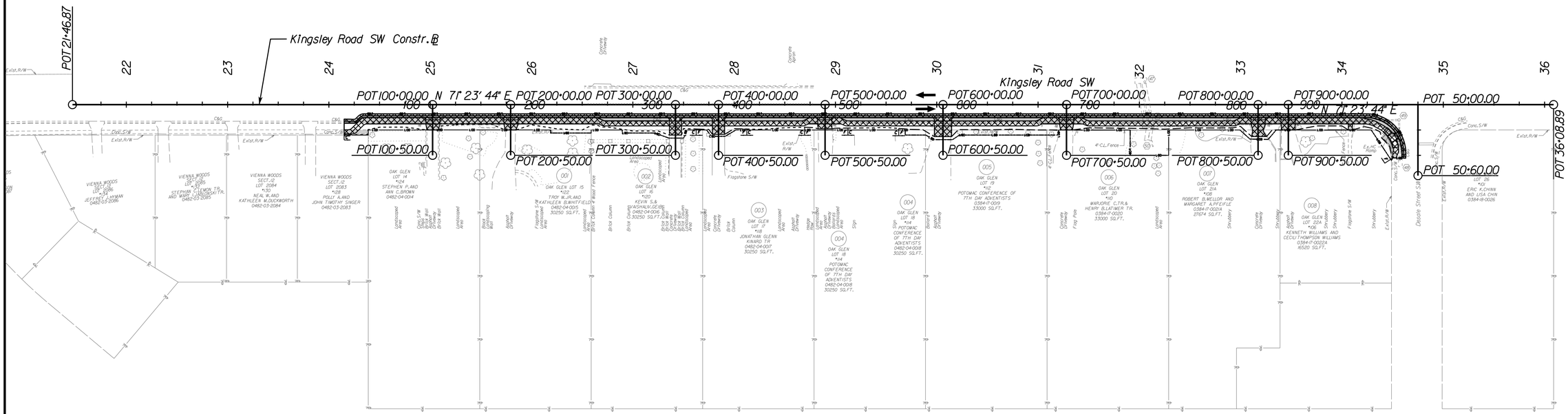
COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
Lic. No. 018547
PROFESSIONAL ENGINEER

David S Gertz
2025.04.15 12:33:18 -04'00'

Whitman, Requardt & Associates
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		000J000-153-197	2D

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



LOD LIMITS OF DISTURBANCE (0.43 ACRES)
EXISTING IMPERVIOUS AREA (0.26 ACRES)
PROPOSED IMPERVIOUS AREA (0.29 ACRES)

SCALE
0 50' 100'

	PROJECT	SHEET NO.
	U000-153-197	2D

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, JANUARY, 2023
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023

EXISTING DRAINAGE AREA MAP

COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
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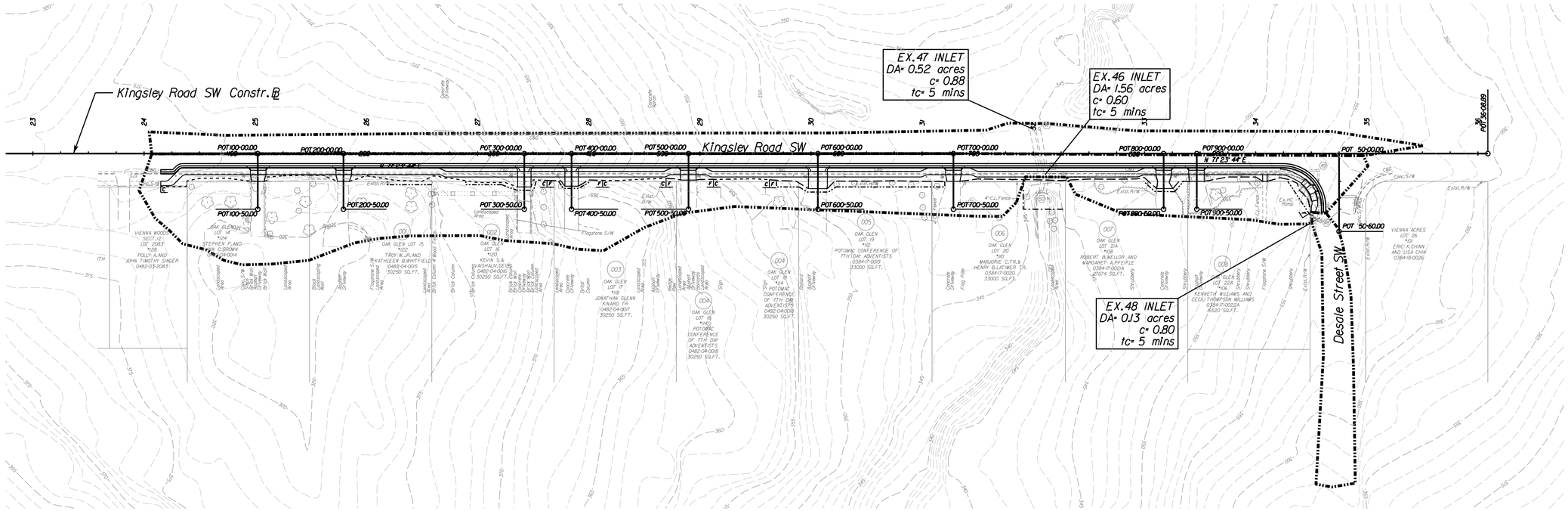
David S Gertz
2025.04.15 12:33:00 -04'00'

Whitman Requardt & Associates
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	2E

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



SCALE
0 50' 100'

	PROJECT	SHEET NO.
	U000-153-197	2E

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, JANUARY 2023
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9117
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023

PROPOSED DRAINAGE AREA MAP AND STORM DRAINAGE COMPUTATIONS

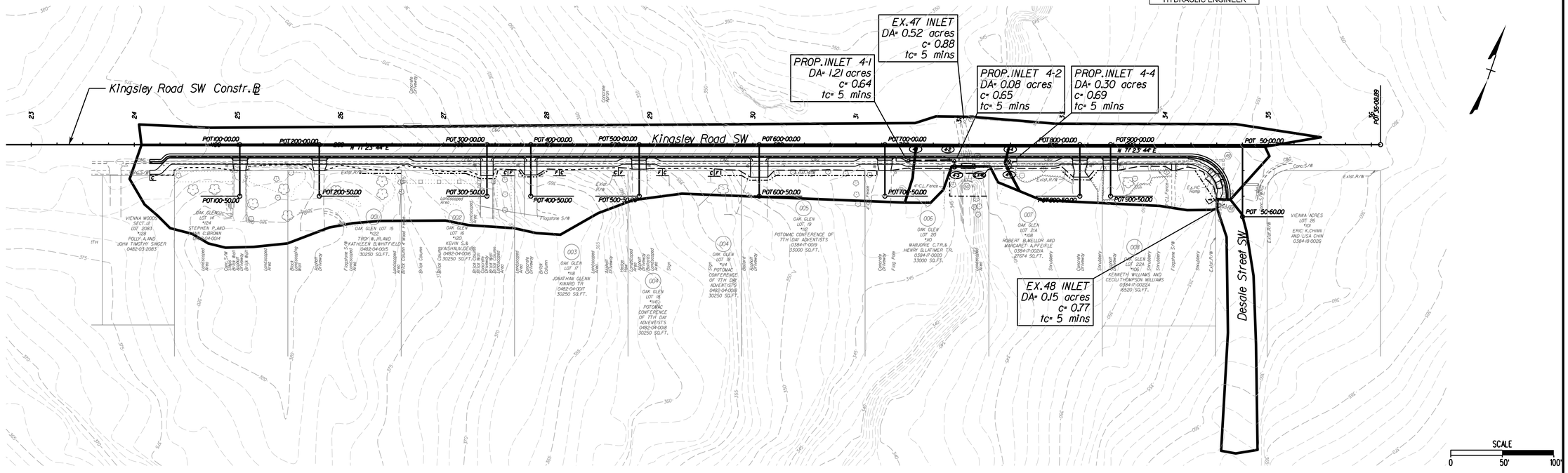
COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
Lic. No. 018547
PROFESSIONAL ENGINEER

David S Gertz
2026.03.30 14:30:28 -04'00'

Whitman Requardt & Associates
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	2F

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



LD-347 - HYDRAULIC GRADE LINE (Rev. 5-25)	PROJECT: KINGSLEY ROAD S.W. SIDEWALK	Revised By: TL February 2024
BASED ON 10-YEAR DESIGN FLOW (EXCEPT WHERE NOTED OTHERWISE)	(VELOCITIES BASED ON PARTIAL PIPE FLOW AS APPLICABLE)	Checked By: DSG February 2024

PIPE LINK #	OUTLET W.S.EL.	Do	Qo	Lo	Sf(o)	Hf	JUNCTION LOSS Vo	Ho	Qi	Vi	Qi x Vi	Vi^2/2g	Hi	ANGLE	Hbend	Ht	1.3Ht	0.5Ht	FINAL H	INLET W.S.EL.	RIM ELEV.	FREEBOARD TO RIM	COMMENTS
	FT.	IN.	C.F.S.	FT.	%	FT.	F.P.S.	FT.	C.F.S.	F.P.S.		FT.	FT.	DEG.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	
PROPOSED CONDITIONS																							
OUTFALL																							
EX46 TO EX50	341.02	52	307.00	11	0.37%	0.041	9.26	0.33	153.50	12.22	1875.98	2.319	0.812	19	0.552	1.696	1.696	0.848	0.890	341.906	345.73	3.82	OK
4-3 TO EX46	341.91	15	5.58	5	0.74%	0.037	4.55	0.08	5.58	4.55	25.39	0.321	0.112	90	0.225	0.418	0.418	0.209	0.246	342.152	345.95	3.80	OK
4-2 TO 4-3	342.15	15	5.58	4	0.74%	0.030	4.55	0.08	5.23	4.26	22.30	0.282	0.099	90	0.198	0.377	0.490	0.245	0.275	342.427	345.77	3.34	OK
4-1 TO 4-2	342.43	15	5.23	42	0.65%	0.274	4.26	0.08	0.00	0.00	0.00	0.000	0.000	0	0.000	0.085	0.110	0.110	0.384	342.811	346.38	3.57	OK
LATERAL																							
4-5 TO EX46	342.10	15	2.18	32	0.12%	0.038	6.33	0.16	1.40	6.95	9.73	0.750	0.262	90	0.525	0.943	0.943	0.471	0.510	342.610	346.18	3.57	OK
4-4 TO 5-5	342.92	15	1.40	2	0.05%	0.001	6.95	0.22	0.00	0.00	0.00	0.000	0.000	0	0.000	0.225	0.292	0.292	0.293	343.213	345.87	2.66	OK
EX49 TO 4-5	342.91	15	0.78	204	0.02%	0.031	4.68	0.09	0.78	4.39	3.43	0.300	0.105	90	0.210	0.400	0.400	0.200	0.231	343.141	354.08	10.94	OK
EX48 to EX49	350.96	15	0.78	37	0.02%	0.006	4.39	0.09	0.00	0.00	0.00	0.000	0.000	0	0.000	0.090	0.117	0.117	0.122	351.082	354.82	3.74	OK
EX47 TO EX46	341.91	48	153.50	39	0.99%	0.391	12.22	0.70	0.00	0.00	0.00	0.000	0.000	0	0.000	0.696	0.905	0.905	1.295	343.202	345.50	2.30	OK

LD-204 (Rev. 5-25)	PROPOSED STORMWATER INLET COMPUTATION SHEET	DATE: FEBRUARY 2024	DESIGNED BY: TL FEB 2024
	RTE: PROJ: TOWN OF VIENNA KINGSLEY ROAD S.W. SIDEWALK		CHECKED BY: DSG FEB 2024

INLET NUMBER	INLET TYPE	INLET LENGTH (FT)	STATION	DRAINAGE AREA (AC)	C	CA	sum CA	I (IN/HR)	Q INCR (CFS)	Qb CARRYOVER (CFS)	Qr GUTTER FLOW	Sx GUTTER SLOPE (FT/FT)	Sx CROSS SLOPE (FT/FT)	T, SPREAD (FT)	ALLOWABLE SPREAD (FT)	W (FT)	W/T	Sw (FT/FT)	Sw / Sx	Er (App. 9C-8)	a = 1/2W(Sx+Sx) + Loc Dep	S'w = a/(1/2W)	Sw = Sx+S'w-Er(S'w-Sx)	COMPUTED LENGTH, Lt, (FT) (App. 9C-17)	L, SPECIFIED LENGTH (FT)	L/LT	E (App. 9C-18)	Qi, INTERCEPTED (CFS)	Qb, CARRYOVER (CFS)	Ponding Depth (in)	SAG INLETS ONLY d(FT)	h(FT)	d/h	T, SPREAD @ SAG (FT)	REMARKS
KINGSLEY STREET S.W.																																	
4-1	DI-3B	12	31+50	1.210	0.64	0.773	0.773	4.00	3.09		3.09	0.009	0.050	6.3	7.5	2.0	0.317	0.0833	1.67	0.69	2.800	0.117	0.130	9.8	12.00	1.23	1.00	3.1		4.58					OK
4-2	DI-3C	8	32+00	0.080	0.65	0.052	0.052	4.00	0.21		0.21	0.012	0.050	0.8	7.5	2.0	SUMP	0.0833	1.67	SUMP	2.800	0.117	SUMP	SUMP	8.00	SUMP	SUMP	SUMP	SUMP	SUMP	0.039	0.29	0.13	0.78	OK
4-4	DI-3B	6	32+50	0.300	0.69	0.206	0.206	4.00	0.82		0.82	0.011	0.050	3.1	7.5	2.0	0.645	0.0833	1.67	0.96	2.800	0.117	0.162	5.4	6.00	1.12	1.00	0.8		2.75					OK
EX47	DI-3C	12	32+00	0.520	0.88	0.460	0.460	4.00	1.84		1.84	0.010	0.040	3.4	10.0	2.0	SUMP	0.0833	2.08	SUMP	3.040	0.127	SUMP	SUMP	12.00	SUMP	SUMP	SUMP	SUMP	SUMP	0.137	0.29	0.47	3.42	OK
EX48	DI-3B	8	34+75	0.150	0.77	0.115	0.115	4.00	0.46		0.46	0.037	0.020	1.7	7.5	2.0	1.182	0.0833	4.17	1.00	3.520	0.147	0.167	5.9	8.00	1.36	1.00	0.5		1.69	0.066	1.29	0.05	3.31	OK

LD-229 (Rev. 5-25) STORM SEWER DESIGN COMPUTATIONS	ROUTE: 703	PROJ: KINGSLEY ROAD S.W. SIDEWALK
	COUNTY: Fairfax	DISTRICT: TOWN OF VIENNA
	DESCRIPTION:	DESIGNED BY: TL February 2024
		CHECKED BY: DSG February 2024

ALL OUTFALLS
BASED ON 10-YEAR DESIGN FLOW
MANNING'S "n" = 0.013 (ALL RCP PIPE)

PROPOSED CONDITIONS

FROM POINT	TO POINT	DRAIN. AREA	RUN-OFF COEF.	CA INCRE-MENT	CA ACCUM-ULATED	INLET TIME MIN.	RAIN-FALL I IN/HR	RUN-OFF Q CFS	INVERT ELEVATIONS UPPER END	INVERT ELEVATIONS LOWER END	LENGTH FT.	SLOPE FT./FT.	DIA. IN.	CAPACITY C.F.S.	VELOCITY F.P.S.	FLOW TIME MINUTES INC.	FLOW TIME MINUTES ACCUM.	REMARKS
		ACRES	C															
OUTFALL 1																		
4-1	4-2	1.21	0.64	0.774	0.774	5.0	6.76	5.23	341.38	340.75	43	0.0150	15	7.93	6.89	0.10	5.10	OK
4-2	4-3	0.08	0.65	0.052	0.826	5.0	6.76	5.58	340.65	340.55	4	0.0250	15	10.24	8.48	0.01	5.01	OK
4-3	EX46	0.00	0.00	0.000	0.826	5.0	6.75	5.58	340.45	340.35	5	0.0200	15	9.16	7.81	0.01	5.02	OK
EX46	EX50	0.00	0.00	0.000	1.607	5.1	6.72	307.00	337.57	337.55	11	0.0018	64	127.55	13.88	0.01	5.12	CHECK HGL
EX48	EX49	0.15	0.77	0.116	0.116	5.0	6.76	0.78	350.68	349.96	37	0.0197	15	9.10	4.42	0.14	5.14	OK
EX49	4-5	0.00	0.00	0.000	0.116	5.1	6.71	0.78	346.43	341.91	204	0.0221	15	9.63	4.68	0.73	5.87	OK
4-4	4-5	0.30	0.69	0.207	0.207	5.0	6.75	1.40	342.00	341.92	2	0.0432	15	13.47	6.95	0.00	5.02	OK
4-5	EX46	0.00	0.00	0.000	0.323	5.0	6.75	2.18	341.82	341.10	32	0.0221	15	9.63	6.31	0.09	5.11	OK
EX47	EX46	0.52	0.88	0.458	0.458	5.0	6.76	153.50	338.60	338.25	39	0.0089	48	134.67	12.22	0.05	5.05	CHECK HGL

NOTE: MICROSOFT EXCEL IS UTILIZED TO PERFORM STORM SEWER COMPUTATIONS

PROJECT	SHEET NO.
U000-153-197	2F

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, JANUARY, 2023
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023

UTILITY CONTACTS:

AT&T
NO UTILITIES IN WORK AREA
GARY WIGFIELD
CONSTRUCTION ENGINEER MANAGER
4800 WINCHESTER BOULEVARD
FREDERICK, MD. 21703
(301) 606-1404

COX COMMUNICATION
REQUESTED PRINTS 6-21,6-25, 7-1-18
NO RESPONSE AS OF 8-20-18
JOSHUA ARNOLD
SUPERVISOR CONSTRUCTION
3800 CENTREVILLE ROAD
FREDERICKSBURG, VA 20171
(703) 480-5157

DOMINION POWER
RECEIVED PRINTS 6-25-18
JULIA MATHERS
COORDINATOR OF ELECTRIC DISTRICT
3072 CENTREVILLE ROAD
HERNDON, VA 20171
(571) 203-5324

SUMMITIG LLC
NO UTILITIES IN WORK AREA
STEVE RAGLAND
VICE PRESIDENT OF OPERATION
22375 BRODERICK DRIVE
DULLES, VA 20166
(703) 376-3700

TOWN OF VIENNA WATER
RECEIVED PRINTS 6-21-18
JENNIFER SIGLER
127 CENTER STREET
VIENNA, VA 22180
(703) 255-6380

VERIZON COMMUNICATION
REQUESTED PRINTS 6-21,6-25, 7-1-18
NO RESPONSE AS OF 8-20-18
JAMES CUNNINGHAM
SUPRERVISOR OF NETWORK
13101 COLUMBIA PIKE
SILVER SPRINGS, MD. 20904
(301) 282-4506

WASHINGTON GAS
RECEIVED PRINTS 6-21-18
NALA BYRD
RECORDS CLERK
6801 INDUSTRIAL ROAD
SPRINGFIELD, VA 22151
(703) 750-4403

COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
Lic. No. 018547
PROFESSIONAL ENGINEER

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Whitman Requardt & Associates
Richmond, Virginia
HYDRAULIC ENGINEER

COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
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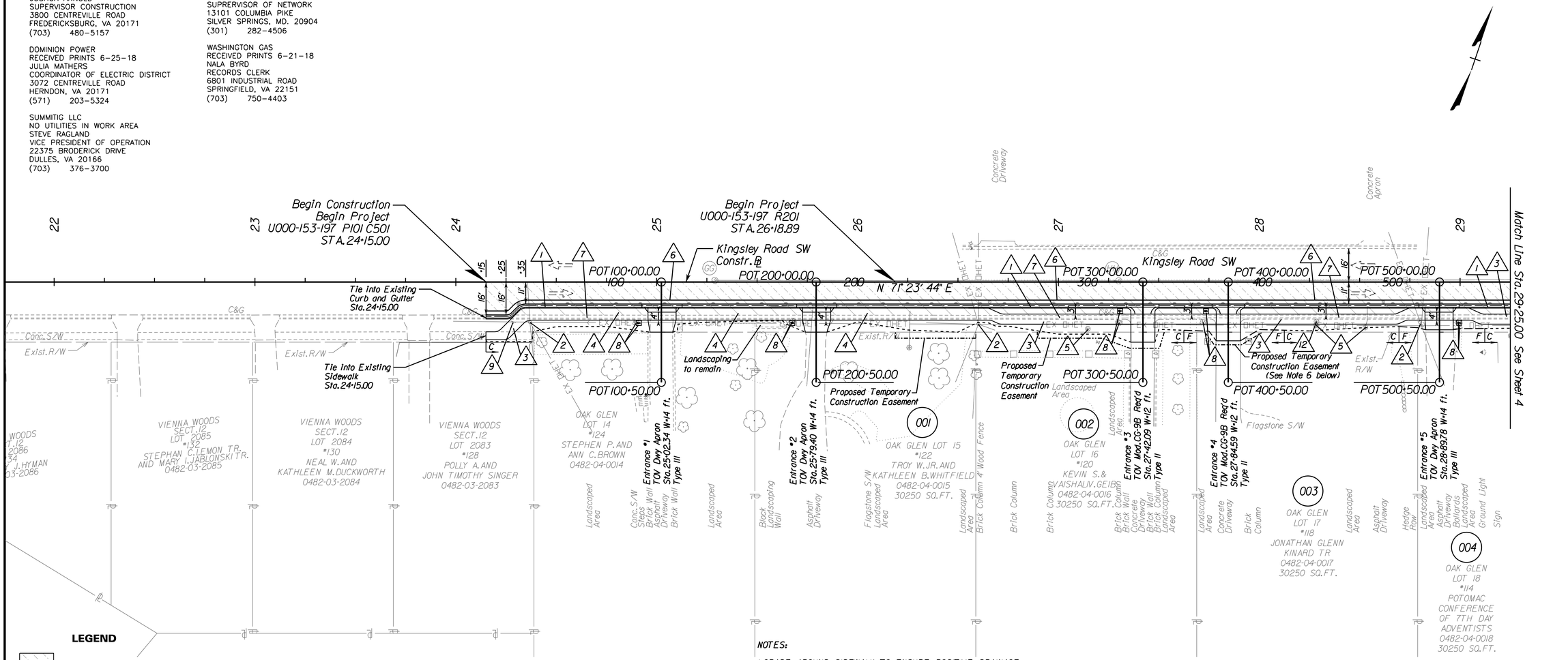
Tyler Long
2026.03.30 14:39:45 -04'00'
Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	3

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



LEGEND

- Proposed Mill and Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- X — Denotes Tree/Shrub Removal
- C — Denotes Construction Limits In Cuts
- F — Denotes Construction Limits In Fills

1	TOV STD. CURB AND GUTTER	7	REMOVE EXISTING CURB AND GUTTER
2	GRADE AROUND EXISTING UTILITY	8	REMOVE AND RELOCATE MAILBOX
3	5' WIDE CONCRETE SIDEWALK	9	REMOVE AND RELOCATE SIGN
4	6' WIDE CONCRETE SIDEWALK (CURB ABUTTED)	10	TOV RADIAL CURB AND GUTTER
5	ADJUST UTILITY TO FINAL GRADE	11	VDOT STANDARD CG-12 TYPE B
6	FULL DEPTH SAW CUT	12	REMOVE AND RELOCATE UTILITY

NOTES:

1. GRADE AROUND SIDEWALK TO ENSURE POSITIVE DRAINAGE.
2. PROPOSED SIDEWALK SHALL DRAIN TOWARDS ROADWAY AT 2%.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FROM HARM OR REPLACE UNDER LICENSED LAND SURVEYOR ALL PROPERTY MONUMENTATION DISTURBED BY CONSTRUCTION.
4. ALL MAILBOXES TO BE RELOCATED THROUGH COORDINATION WITH TOWN ENGINEER AND PROPERTY OWNER.
5. MINIMUM REQUIRED LATERAL OFFSET FROM FACE OF CURB TO SIGN PANELS SHALL BE 2 FT.
6. THE EXISTING IRRIGATION SYSTEM ON PARCEL 003 SHALL BE LOCATED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION OF THE ENTRANCE OR GRADING ACTIVITIES. THE EXISTING IRRIGATION SYSTEM SHALL NOT BE DISTRUBED. ANY DAMAGE OR REPAIR OF THE EXISTING IRRIGATION SYSTEM WILL BE AT THE EXPENSE OF THE CONTRACTOR. THE EXISTING STONE COLUMNS AND LIGHTS SHALL NOT BE DISTURBED.
7. THE CONTRACTOR SHALL TAKE CARE WHEN EXCAVATING AND GRADING AROUND THE EXISTING UTILITY POLES TO ENSURE THE POLES ARE PROPERLY SUPPORTED AND EXISTING UTILITIES ARE NOT IMPACTED.

SCALE
0 25' 50'

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Geometric Layout	2B
Mainline Profile	3A(1)
Entrance Profiles	3A(2)
E & S Control	3B
Signing and Marking	5

PROJECT	SHEET NO.
U000-153-197	3

4/14/2025
9:32:54 AM

d106963003A(1).dgn
Plotted By: tlong

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES (703) 968-3200 JANUARY 2023
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES JANUARY 2023

COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
Lic. No. 018547
PROFESSIONAL ENGINEER

David S Gertz
2025.04.15 12:31:18 -04'00'

Whitman, Requardt & Associates
Fairfax, Virginia
HYDRAULIC ENGINEER

COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

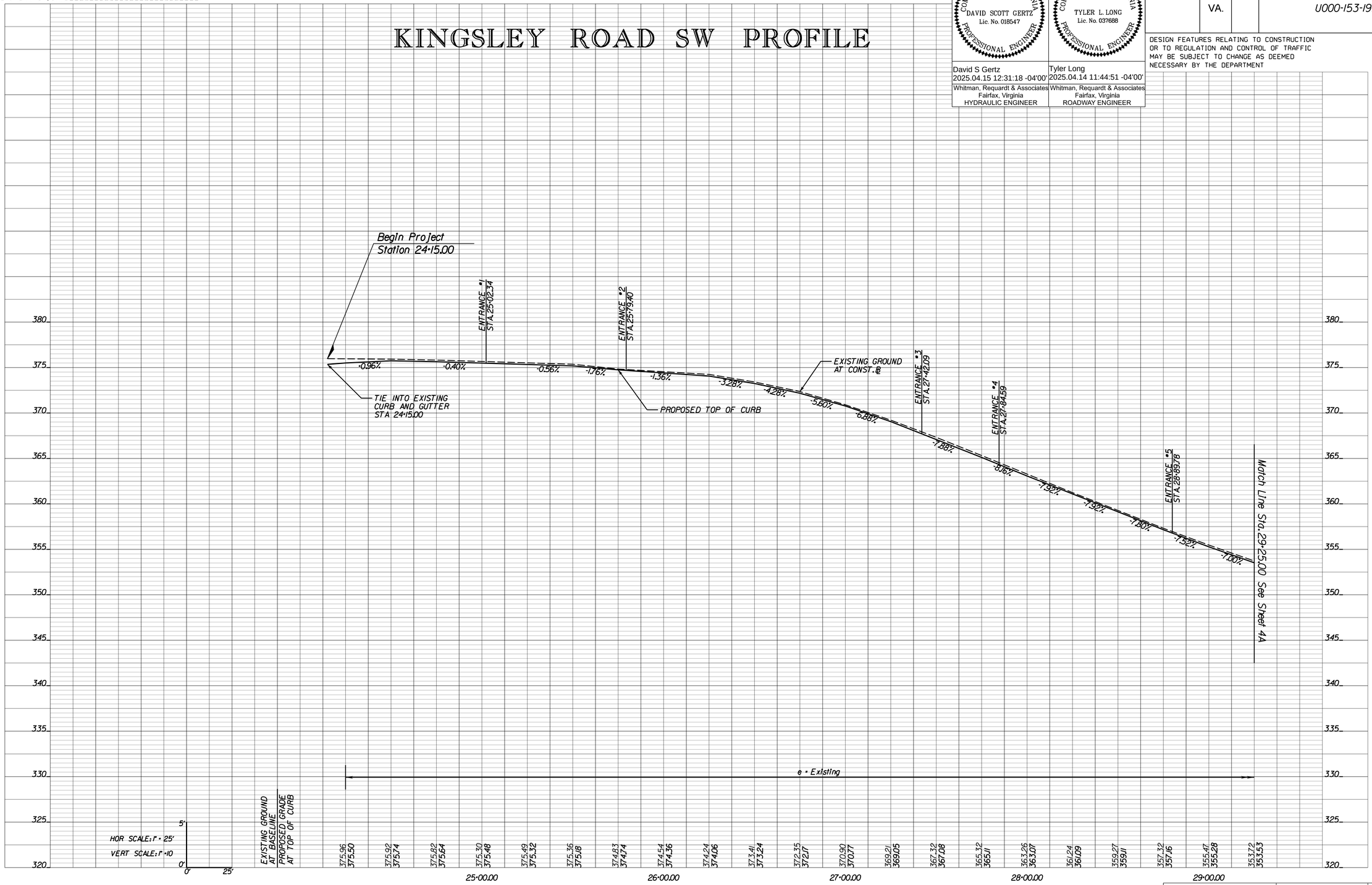
Tyler Long
2025.04.14 11:44:51 -04'00'

Whitman, Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	3A(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

KINGSLEY ROAD SW PROFILE



PROJECT	SHEET NO.
U000-153-197	3A(1)

4/14/2025
9:34:38 AM

d106963003A(2).dgn
Plotted By: tlong

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES (703) 968-3200 JANUARY 2023
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES JANUARY 2023

COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
Lic. No. 018547
PROFESSIONAL ENGINEER

David S Gertz
2025.04.15 12:31:33 -04'00'
Whitman, Requardt & Associates
Fairfax, Virginia
HYDRAULIC ENGINEER

COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

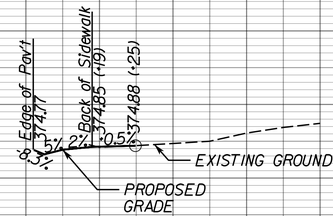
Tyler Long
2025.04.14 11:47:48 -04'00'
Whitman, Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		000J000-153-197	3A(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ENTRANCE PROFILES

ENTRANCE # 1
124 Kingsley Road



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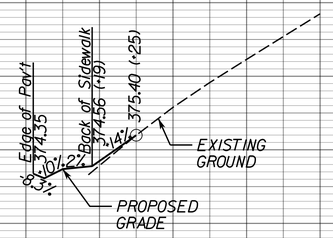
122 Kingsley Road



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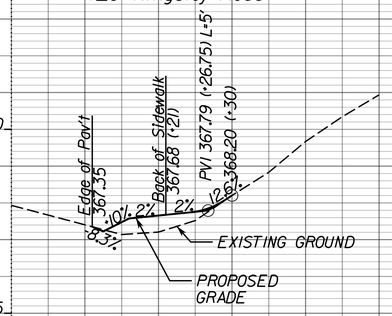
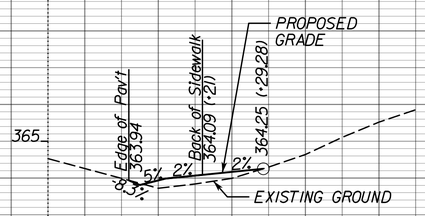
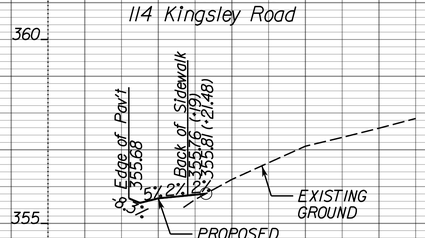


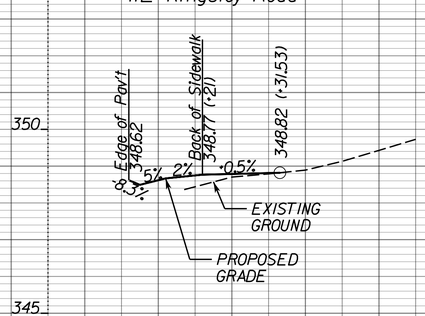
ENTRANCE # 4
118 Kingsley Road



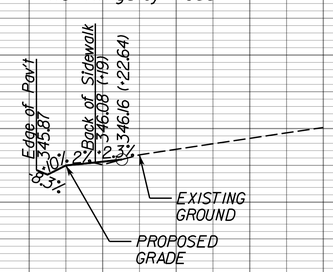
ENTRANCE # 5
114 Kingsley Road



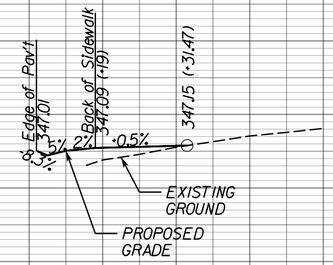
ENTRANCE # 6
112 Kingsley Road



ENTRANCE # 7
110 Kingsley Road



ENTRANCE # 8
108 Kingsley Road



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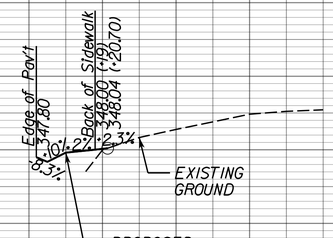
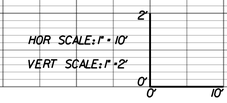
106 Kingsley Road





	PROJECT	SHEET NO.
	U000-153-197	3A(2)

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, JANUARY, 2023.
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023.

EROSION & SEDIMENT CONTROL

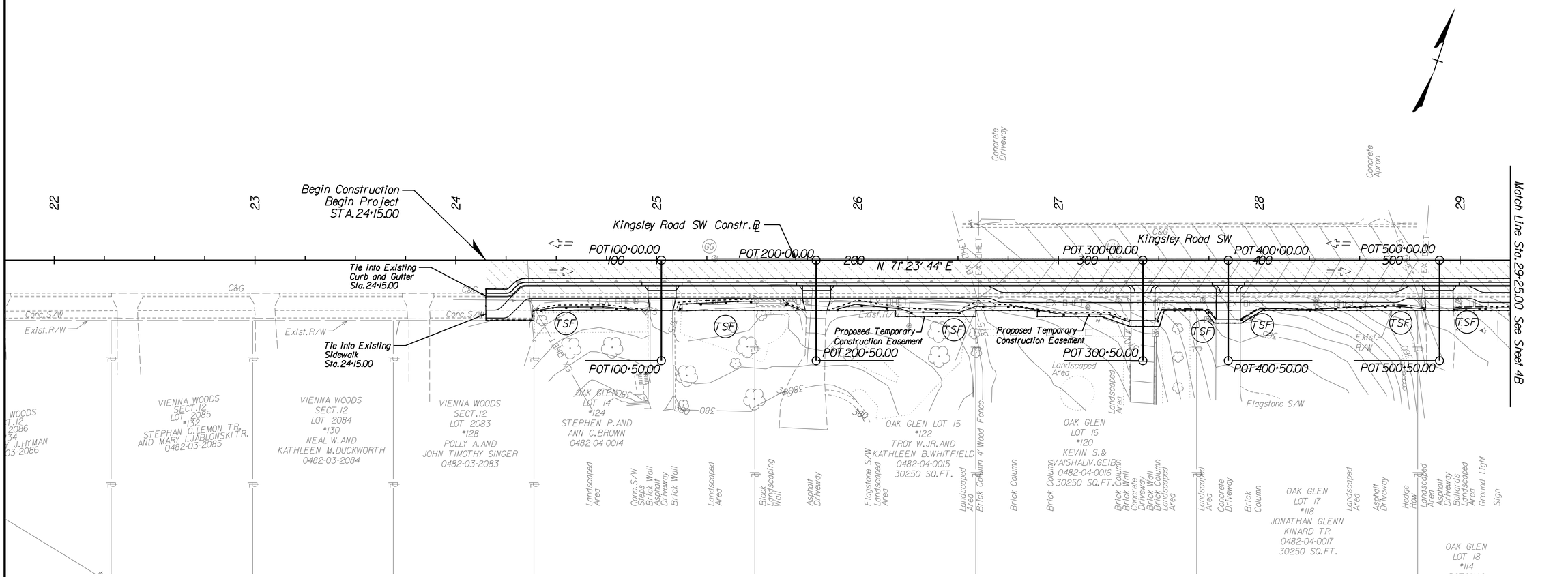
COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
Lic. No. 018547
PROFESSIONAL ENGINEER

David S Gertz
2025.04.15 12:32:37 -04'00'

Whitman, Requardt & Associates
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	3B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



SCALE
0 25' 50'

LEGEND

- Proposed Mill and Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- Denotes Tree/Shrub Removal
- ----- Denotes Construction Limits in Cuts
- — — Denotes Construction Limits in Fills

E & S LEGEND

- TSF — Denotes Temporary Silt Fence, St'd EC-5 Type A
- Denotes Limits of Disturbance
- IPB — Denotes Inlet Protection Type B, St'd EC-6

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Mainline Profile	3A(1)
Entrance Profiles	3A(2)

PROJECT	SHEET NO.
U000-153-197	3B

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES (703) 968-3200 JANUARY 2023
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES JANUARY 2023

RIGHT-OF-WAY PLAN

THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

VDOT Project 0001-029-205

COMMONWEALTH OF VIRGINIA
William G. Lippy, Jr.
Lic. No. 2887
LAND SURVEYOR

William Lippy

Rice Associates
Virginia Beach, Virginia
Land Surveyor

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	3RW

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

LEGEND:

⊙ • PROPOSED RIGHT OF WAY MONUMENT (RM2)

EXISTING PROPERTY LINE

0.00' / •00.00 • PROPOSED ACQUISITION

(00.00' / •00.00) • PROPOSED TEMPORARY EASEMENT

Parcel Number	TEMP.CONSTR.ESMTS
001	120 Sq.Ft.
002	300 Sq.Ft.
003	733 Sq.Ft.
004	100 Sq.Ft.

Begin Construction
Begin Project
STA. 24+15.00

Begin Project
U000-153-197 R201
STA. 26+18.89

22 — N= 7,009,033.015, E= 11,836,839.776

23

24

25

26

27

28

29 — N= 7,009,256.340, E= 11,837,503.197

KINGSLEY ROAD SW

N 71° 23' 44" E

KINGSLEY ROAD SW CONSTR. ℄

Match Line STA. 29+25.00 See Sheet 4

EXIST.R/W

(110.00')

PROP.TEMP. CONSTR.ESM'T

(S72°07'00"W)

(25.00 / •18.89)
(28.00 / •18.89)
(25.00 / •58.89)
(28.00 / •58.89)
(25.00 / •89.51)
(28.00 / •89.51)
(28.00 / •21.70)
(33.00 / •35.57)
(33.00 / •50.33)
(25.00 / •52.71)
(25.00 / •72.87)
(25.00 / •101.73)
(31.28 / •77.52)
(31.28 / •91.13)

(S17°53'00"E 275.00')

STEPHEN P. AND ANN C. BROWN
Parcel ID: 0482 04 0014
D.B. 09843 PG. 0024
30,250 Sq. Ft.

001
TROY W. JR. AND KATHLEEN B. WHITFIELD
Parcel ID: 0482 04 0015
D.B. 16085 PG. 0054
30,250 Sq. Ft.

002
KEVIN S. & VAISHALI V. GEIB
Parcel ID: 0482 04 0016
D.B. 26807 PG. 1011
30,250 Sq. Ft.

003
JONATHAN GLENN KINARD TR
Parcel ID: 0482 04 0017
D.B. 26370 PG. 0513
30,250 Sq. Ft.

004
POTOMAC CONFERENCE OF 7TH DAY ADVENTISTS
Parcel ID: 0482 04 0018
D.B. 12101 PG. 0666
30,250 Sq. Ft.

℄

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-153-197	3RW

PROJECT MANAGER: ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE: BICE ASSOCIATES, (703) 968-3200, JANUARY, 2023
DESIGN BY: WHITMAN, REQUARDT & ASSOCIATES, LLP, (703) 293-9717
SUBSURFACE UTILITY BY, DATE: RICE ASSOCIATES, JANUARY 2023

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	4

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

COMMONWEALTH OF VIRGINIA — TYLER L. LONG — Lic. No. 037688 — PROFESSIONAL ENGINEER

Tyler Long
2026.03.30 14:40:30 -04'00'
Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

COMMONWEALTH OF VIRGINIA — DAVID SCOTT GERTZ — Lic. No. 018547 — PROFESSIONAL ENGINEER

David S Gertz
2026.03.30 14:29:22 -04'00'
Whitman Requardt & Associates
Fairfax, Virginia
HYDRAULIC ENGINEER

ROADWAY	FROM STATION	TO STATION	ST'D.UD-4 (LF)	REMARKS
KINGSLEY RD SW	24+15.00	31+90.67	778	CONNECT TO STR.4-2
KINGSLEY RD SW	32+00.00	34+60.23	287	CONNECT TO STR.4-2

4-1 — 1 ST'D DI-3B (L=12') REQ'D
H = 5' INV.(OUT) 341.38
ST'D ST-1 REQ'D;

4-1 TO 4-2 — 43 LF-15" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) 341.38 INV.(OUT) 340.75
SILT-TIGHT JOINT TYPE

4-2 — 1 ST'D DI-3C (L=8') REQ'D
H = 5' INV.(IN) 340.75 INV.(OUT) 340.65
ST'D ST-1 REQ'D; ST'D IS-1 REQ'D

4-2 TO 4-3 — 4 LF-15" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) 340.65 INV.(OUT) 340.55
SILT-TIGHT JOINT TYPE

4-3 — 5.4 FT. ST'D MH-1 OR MH-2 REQ'D
ST'D MH-1 FRAME AND COVER REQ'D
INV.(IN) 340.55 INV.(OUT) 340.45

4-3 TO EX46 — 5 LF-15" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) 340.45 INV.(OUT) 340.35
SILT-TIGHT JOINT TYPE

4-4 — 1 ST'D DI-3B (L=6') REQ'D
H = 3.9' INV.(OUT) 342.00

4-4 TO 4-5 — 2 LF-15" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) 342.00 INV.(OUT) 341.92
SILT-TIGHT JOINT TYPE

4-5 — 4.4 FT. ST'D MH-1 OR MH-2 REQ'D
ST'D MH-1 FRAME AND COVER REQ'D
INV.(IN) 341.92 (FROM 4-4) INV.(OUT) 341.82
CONNECT TO EXISTING 15" PIPE

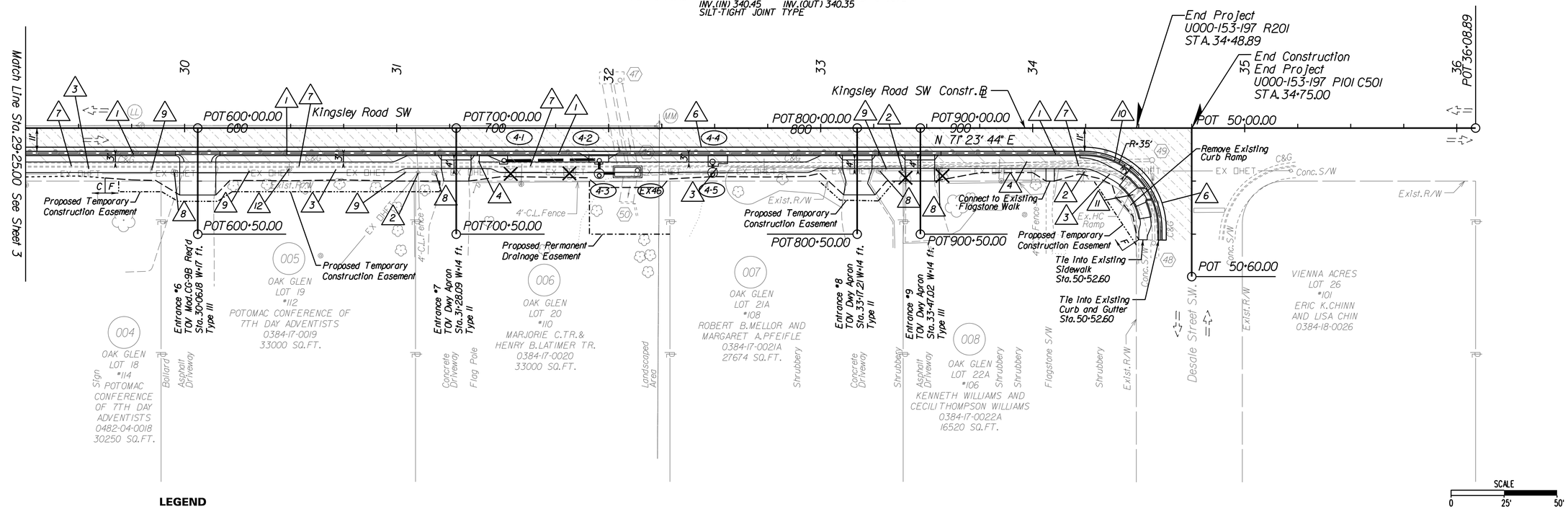
EX46 — REMOVE EXIST. INLET STRUCTURE
MODIFIED JB-1 STRUCTURE REQ'D
ST'D MH-1 FRAME AND COVER REQ'D
PROP. TOP ELEV.= 345.73
INV. 340.35 (PROP. 15" FROM 4-2)
ST'D ST-1 REQ'D; ST'D IS-1 REQ'D
EX. INV.(IN) 341.10 (FROM 4-5)
EX. INV.(IN) 338.25 (TWIN 48" RCP FROM 47)
EX. INV.(OUT) 337.57 (52"X78" RCP)

47 — CATCH BASIN
TOP=345.50
INV. OUT=338.60
(TWIN 48" RCP'S)

48 — CATCH BASIN
TOP=354.82
INV. OUT=350.68(15")

49 — MANHOLE
TOP=354.08
INV. IN=349.96
INV. OUT=346.43(15")

50 — ENDWALL
INV. OUT=337.55



LEGEND

- Proposed Mill and Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- X — Denotes Tree/Shrub Removal
- C ---- Denotes Construction Limits in Cuts
- F — — Denotes Construction Limits in Fills

1. TOV STD.CURB AND GUTTER
2. GRADE AROUND EXISTING UTILITY
3. 5' WIDE CONCRETE SIDEWALK
4. 6' WIDE CONCRETE SIDEWALK (CURB ABUTTED)
5. ADJUST UTILITY TO FINAL GRADE
6. FULL DEPTH SAW CUT
7. REMOVE EXISTING CURB AND GUTTER
8. REMOVE AND RELOCATE MAILBOX
9. REMOVE AND RELOCATE SIGN
10. TOV RADIAL CURB AND GUTTER
11. VDOT STANDARD CG-12 TYPE B
12. REMOVE AND RELOCATE UTILITY

NOTES:

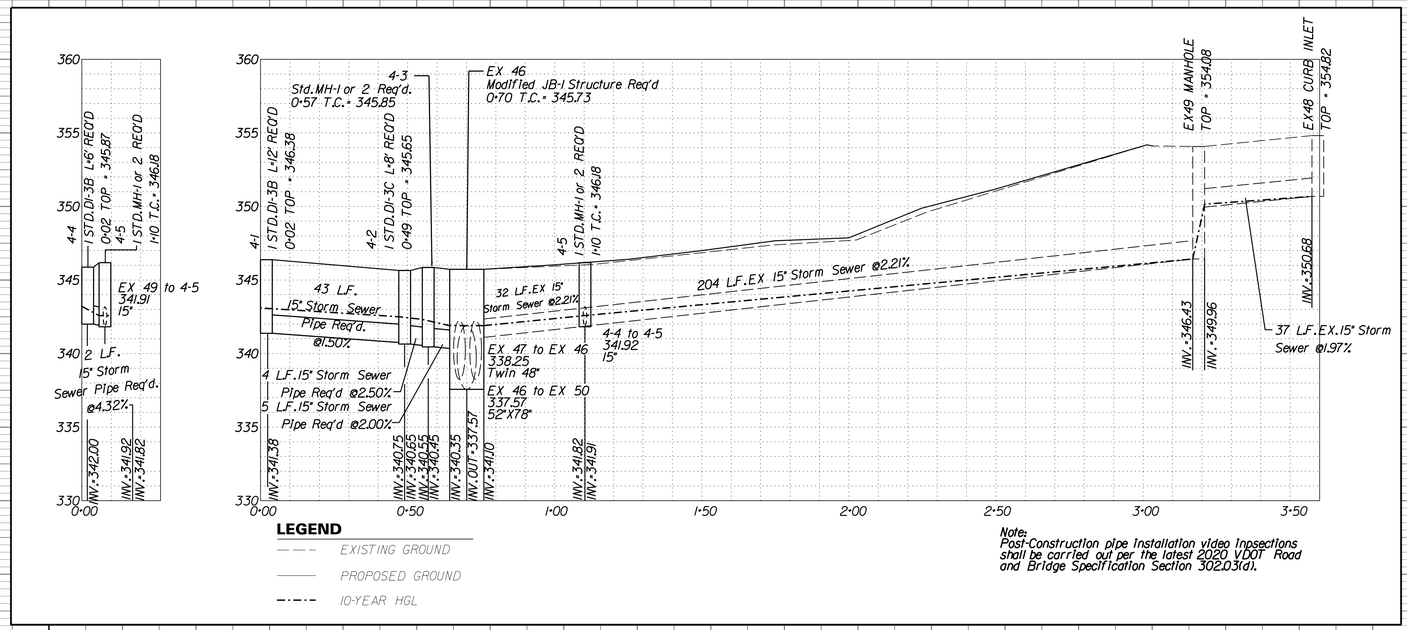
1. GRADE AROUND SIDEWALK TO ENSURE POSITIVE DRAINAGE.
2. PROPOSED SIDEWALK SHALL DRAIN TOWARDS ROADWAY AT 2%.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FROM HARM OR REPLACE UNDER LICENSED LAND SURVEYOR ALL PROPERTY MONUMENTATION DISTURBED BY CONSTRUCTION.
4. ALL MAILBOXES TO BE RELOCATED THROUGH COORDINATION WITH TOWN ENGINEER AND PROPERTY OWNER.
5. MINIMUM REQUIRED LATERAL OFFSET FROM FACE OF CURB TO SIGN PANELS SHALL BE 2 FT.
6. THE CONTRACTOR SHALL TAKE CARE WHEN EXCAVATING AND GRADING AROUND THE EXISTING UTILITY POLES TO ENSURE THE POLES ARE PROPERLY SUPPORTED AND EXISTING UTILITIES ARE NOT IMPACTED.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

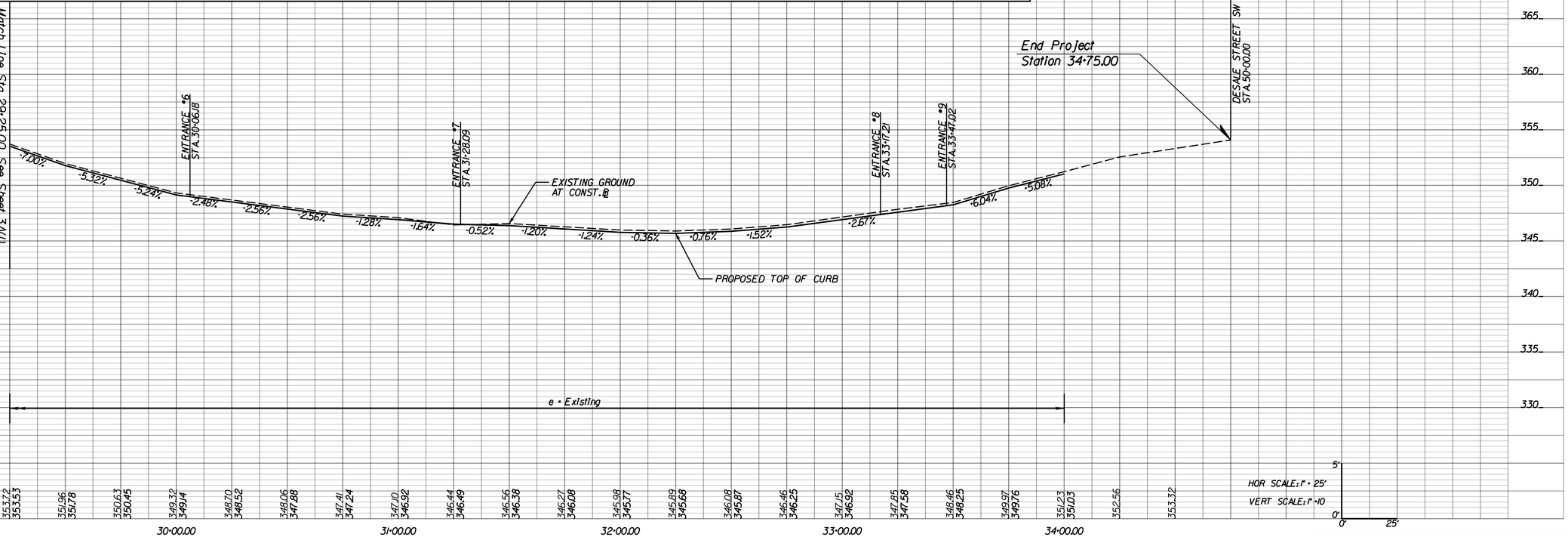
Geometric Layout	2B
Mainline Profile	4A
Entrance Profiles	3A(2)
Storm Drain Profile	4A
E & S Control	4B
Signing and Marking	5

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES (703) 968-3200 JANUARY 2023
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES JANUARY 2023

KINGSLEY ROAD SW PROFILES



Note:
Post-Construction pipe installation video inspections shall be carried out per the latest 2020 VDOT Road and Bridge Specification Section 302.03(d).



David S Gertz
2025.04.15 12:43:35 -04'00'
Whitman, Requardt & Associates
Fairfax, Virginia
HYDRAULIC ENGINEER

Tyler Long
2025.04.14 11:48:39 -04'00'
Whitman, Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	4A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

PROJECT	SHEET NO.
U000-153-197	4A

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SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023.

EROSION & SEDIMENT CONTROL

COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
Lic. No. 018547
PROFESSIONAL ENGINEER

David S Gertz
2025.04.15 12:33:32 -04'00'

Whitman Requardt & Associates
Fairfax, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	4B

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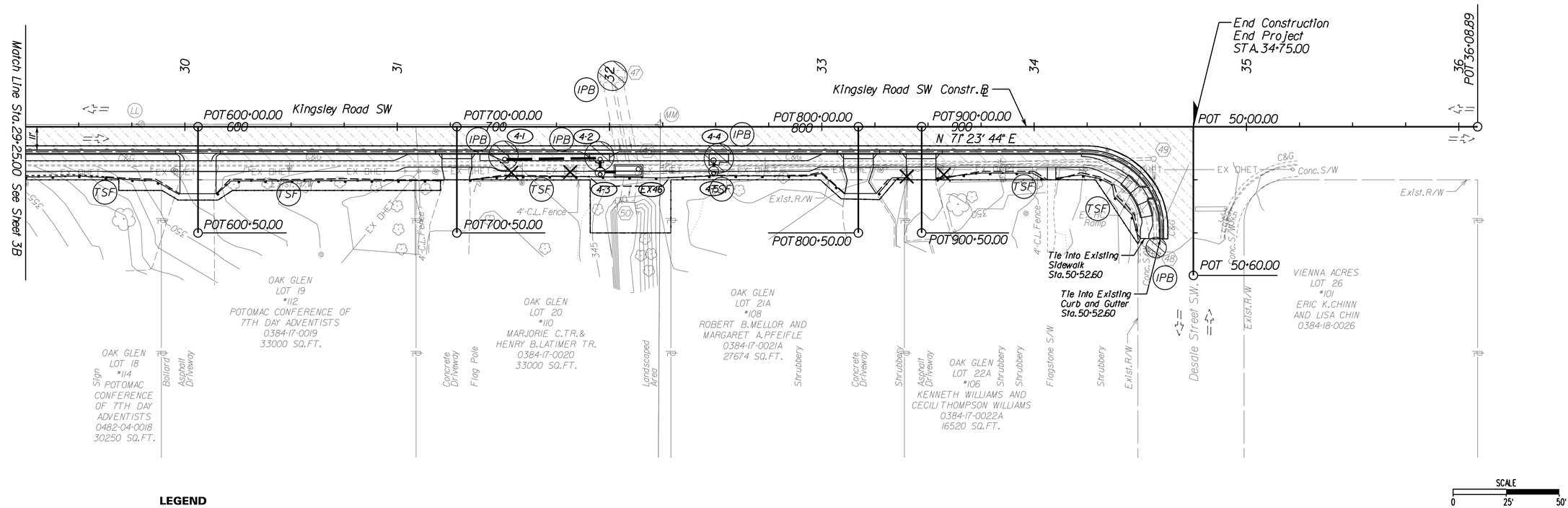

SCALE
0 25' 50'

LEGEND

- Proposed Mill and Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- Denotes Tree/Shrub Removal
- C ___ Denotes Construction Limits in Cuts
- F __ Denotes Construction Limits in Fills

E & S LEGEND

- TSF ——— Denotes Temporary Silt Fence, St'd EC-5 Type A
- ——— Denotes Limits of Disturbance
- IPB Denotes Inlet Protection Type B, St'd EC-6

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Mainline Profile	4A
Entrance Profiles	3A(2)

		PROJECT	SHEET NO.
		U000-153-197	4B

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SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023

RIGHT-OF-WAY PLAN

THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

COMMONWEALTH OF VIRGINIA
WILLIAM G. LIPPY, JR
Lic. No. 2887
LAND SURVEYOR

William Lippy

Rice Associates
Virginia Beach, Virginia
Land Surveyor

REVISED	STATE	STATE		SHEET NO
		ROUTE	PROJECT	
	VA.		U000-153-197	4RW

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

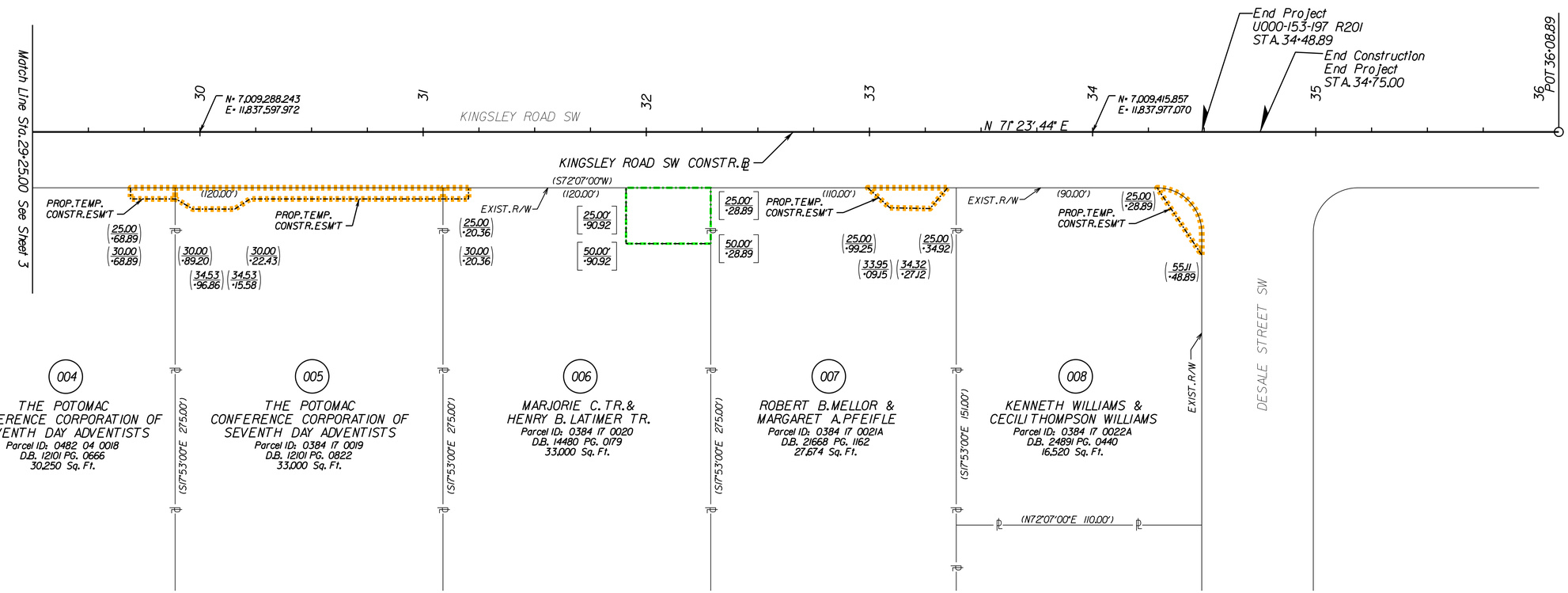
LEGEND:

- PROPOSED RIGHT OF WAY MONUMENT (RM2)
- EXISTING PROPERTY LINE
- 0.00' / 00.00 — PROPOSED ACQUISITION
- (00.00' / 00.00) — PROPOSED TEMPORARY EASEMENT
- [00.00' / 00.00] — PROPOSED PERMANENT DRAINAGE EASEMENT

Parcel Number	DRAINAGE ESMTS
006	949 Sq.Ft.

Parcel Number	TEMP.CONSTR.ESMTS
004	100 Sq.Ft.
005	718 Sq.Ft.
006	57 Sq.Ft.
007	245 Sq.Ft.
008	215 Sq.Ft.

VDOT Project 0001-029-205



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SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-153-197	4RW

PROJECT MANAGER ANDREW JINKS, P.E. (703) 255-6381
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, JANUARY, 2023.
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, JANUARY 2023.

SIGNING AND MARKING PLAN

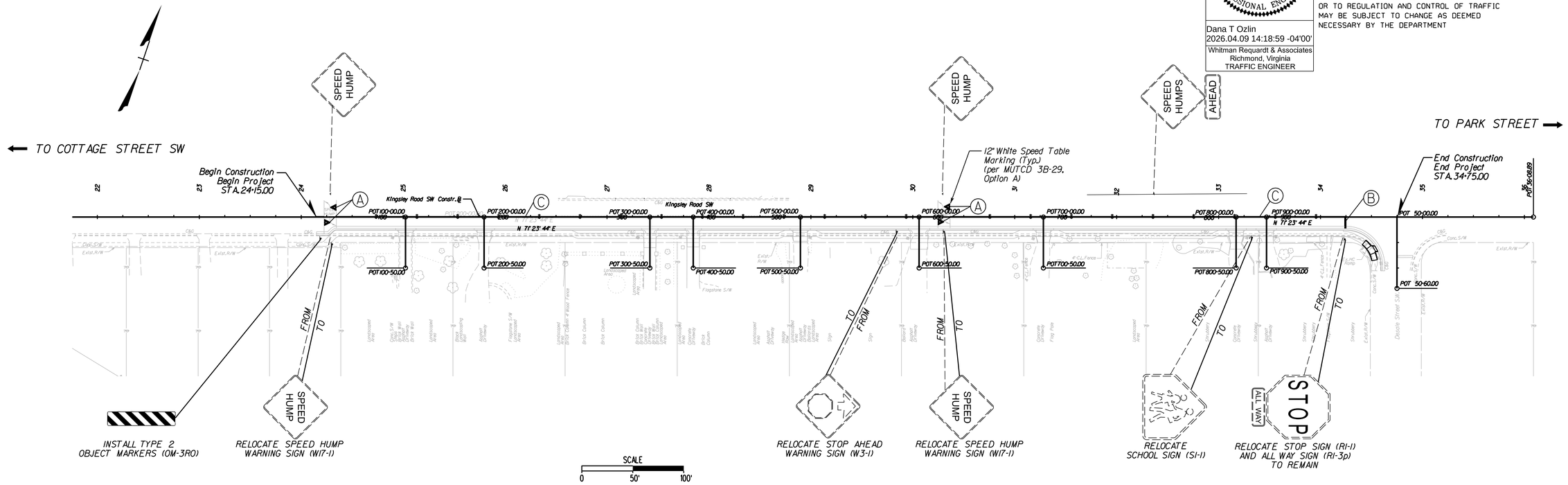
COMMONWEALTH OF VIRGINIA
DANA TRONE OZLIN
Lic. No. 045607
PROFESSIONAL ENGINEER

Dana T Ozlin
2026.04.09 14:18:59 -04'00'

Whitman Requardt & Associates
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	5

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



NOTES:

1. ALL PROPOSED SIGNING AND PAVEMENT MARKNGS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF EACH OF THE FOLLOWING MANUALS, OR THE MOST RECENT REVISION THERETO:
   A. VIRGINIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES VERSION 11.0.
   B. THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
   C. THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS.
   D. THE VIRGINIA DEPARTMENT OF TRANPSORTATION TRAFFIC CALMING GUIDE FOR NEIGHBORHOOD STREETS.
2. EXISTING SIGNS WITHIN THE LIMITS OF THE PROJECT WHICH HAVE NOT BEEN ACCOUNTED FOR IN THE PLAN SHALL BE RELOCATED OR REMOVED AS DIRECTED BY THE TOWN.
3. EXISTING SIGN PANELS SCHEDULED TO BE REUSED/RELOCATED MAY BE REPLACED WITH NEW SIGNS AT THE DISCRETION OF THE TOWN.
4. PROPOSED SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE MODIFIED IN THE FIELD TO AVOID CONFLICT WITH UNDERGROUND UTILITIES OR OTHER CONSTRUCTION, AND TO COMPLY WITH THE STANDARDS REFERENCED IN NOTE 1.
5. SIGNS SHALL BE PLACED TO MEET THE MINIMUM LATERAL OFFSET AND MINIMUM VERTICAL CLEARANCE AS SHOWN IN APPENDIX A(1) OF VDOT'S ROAD DESIGN MANUAL.
6. RELOCATED SIGNS TO BE INSTALLED ON A STP-1 FOUNDATION UNLESS OTHERWISE NOTED.
7. THERE IS AN EXISTING "SPEED HUMPS AHEAD" SIGN ON THE SOUTHEAST KINGSLEY ROAD APPROACH THAT IS OUTSIDE OF THE SURVEY LIMITS.

PAVEMENT MARKING LEGEND

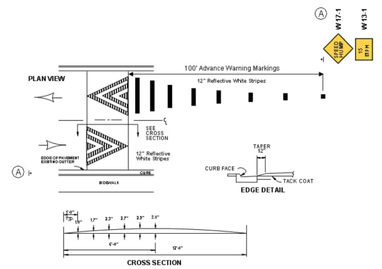
Ⓐ TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 12" WIDTH

Ⓑ TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH

Ⓒ TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH 4" APART

Figure A-4

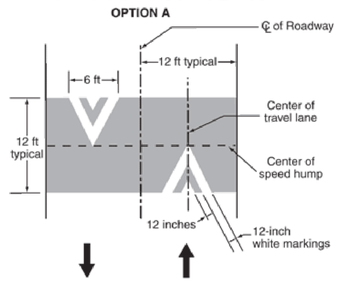
SPEED HUMP



NOTES:

1. For appropriate application, see FIGURE A – Subdivision street characteristics pertaining to the selection of traffic calming devices in this document.
2. Per the 2025 MUTCD:
   i. Section 3B.29 –speed hump markings are not required but if used they must comply per options in Section 3B.29.
   ii. Section 3B.30 –the 100' advance warning pavement markings are optional but if used they must comply with the dimensions and spacing per Section 3B.26.
   iii. Section 2C.27 -advance warning sign (W17-1) is optional but if used, should include the advisory speed plaque (W13-1) and; sign may use "Speed Bump" instead of "Speed Hump."
3. Leave gutter pan open to facilitate drainage.

MUTCD FIG. 3B-29



VDOT TRAFFIC CALMING GUIDE FOR NEIGHBOORHOOD STREETS

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DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES JANUARY 2023

COMMONWEALTH OF VIRGINIA
TIMOTHY A. BEAVERS
Lic. No. 036377
PROFESSIONAL ENGINEER

Timothy A Beavers
2025.10.07 13:39:06 -04'00'

WHITMAN REQUARDT & ASSOCIATES
FAIRFAX, VA
STRUCTURAL ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		U000-153-197	6(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

WORK POINT DATA TABLE

Location	Structure	Station	Offset	Easting	Northing
WP-1	EX46	32+02.13	23.43 RT.	11837773.34	7009316.51
WP-2	EX46	32+02.13	17.82 RT.	11837771.55	7009321.82
WP-3	EX46	32+15.71	17.82 RT.	11837784.42	7009326.15
WP-4	EX46	32.15+71	23.42 RT.	11837786.21	7009320.84

Stations and offsets are referenced to the Kingsley Road SW Constr. ℄

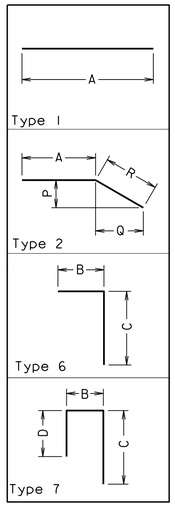
ESTIMATED QUANTITY TABLE

Structure No.	Reinforcing Steel LB	Concrete Class A3 CY	Minor Structure Excavation CY	Structural Steel Grade 36 LB
EX46	4,090	9.0	81	53

Estimated quantities provided for the Contractor's reference only and cost shall be included in the bid price for each respective drainage structure.

STRUCTURE EX46
REINFORCING STEEL SCHEDULE AND DIMENSION TABLE

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	P	Q	R	S	T	U
A	#6	16	5'-6 1/8"	6		2'-10"	2'-10"							
B	#6	116	7'-1"	1	7'-1"									
C	#6	16	14-8"	1	14'-8"									
D	#6	32	6'-8 1/4"	1	6'-8 1/4"									
E	#6	40	5'-4 1/4"	1	5'-4 1/4"									
F	#6	28	5'-4 1/4"	1	5'-4 1/4"									
G	#6	20	13'-4"	1	13'-4"									
H	#6	40	13'-4"	1	13'-4"									
J	#6	28	17'-0 1/4"	7		13'-4"	2'-0"	2'-0"						
K	#6	8	7'-0"	2	4'-4 3/8"				1'-10 5/8"	1'-10 5/8"	2'-8"			
L	#6	4	7'-8 5/8"	2	4'-0"				2'-10 1/2"	2'-5"	3'-9 1/8"			



REINFORCING STEEL NOTES:

All reinforcing steel to be #6 bars with a minimum 1 1/2" concrete cover.

Any reinforcing bars in conflict with pipe shells, openings or any face of concrete are to be field cut to provide the required cover.

Bar dimensions are out-to-out of bars.

See Sheet 6(2) for additional details, notes, pipe locations, inverts, etc.

Pin diameter for all #6 bars is 4 1/2"

JUNCTION BOX GENERAL NOTES:

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

The junction box details shown are specifically detailed for structure EX46. All specific details are shown for this structure only.

These design details are to be used with the standard junction box details and notes in the junction box standard sheets.

Specific drainage standards referenced area as follows:
- Junction box, JB-1
- Manhole Frame and Cover, MH-1
- Steps, ST-1

All concrete in proposed junction box shall be Class A3 General Use.

All reinforcing steel shall be deformed and shall conform to ASTM A615, Grade 60. All reinforcing bar dimensions on the detailed drawings are to centers of bars except where otherwise noted and are subject to fabrication and construction tolerances.

See Sheet 4 for detailed junction box drainage description.

In cut situations material with strength characteristics greater than the select backfill may be left in place.

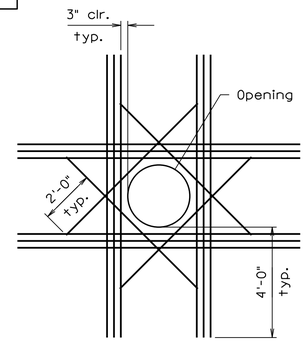
Structure as shown is detailed as cast-in-place. Structure is designed for HS20 traffic loading.

Precast structures may be utilized in place of cast-in-place construction. Contractor shall submit signed and sealed drawings and calculations for review if precast elements are utilized. Precast structures shall conform to Section 302 of the VDOT specifications and VDOT Std. MH-2. All precast structures shall be constructed with 4000 psi minimum concrete strength. Precast structures shall be rated for traffic loading of HS20 minimum. No change in interior chamber dimensions or invert elevation will be permitted.

Drainage chamber standard designations are shown to indicate the details of the chamber reinforcement and other details not shown.

Legend:

℄ denotes Centerline
℔ denotes Baseline
RCP denotes Reinforced Concrete Pipe
WP denotes Work Point
ø denotes Diameter



TYPICAL PENETRATION DETAIL FOR OPENINGS 24"ø AND SMALLER

Not to scale

Notes:

Bend additional reinforcing as required at wall-to-footing joint.

Provide additional reinforcing as shown (minimum of one-half the number of principal reinforcing bars interrupted by the opening on each side and each face of the opening.)

The reinforcing steel shown in the detail above is in addition to the reinforcing steel shown in the reinforcing steel schedule.

	PROJECT	SHEET NO.
	U000-153-197	6(1)

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FAIRFAX, VA
STRUCTURAL ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
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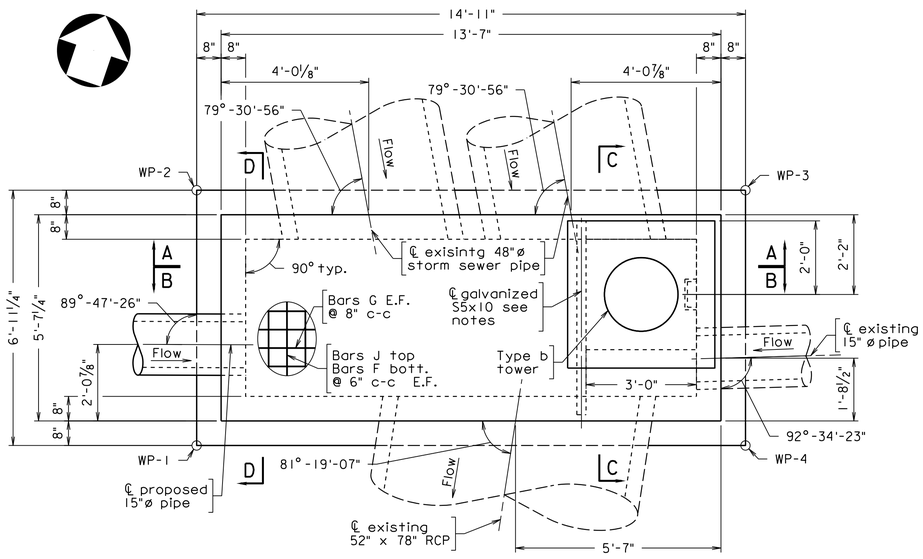
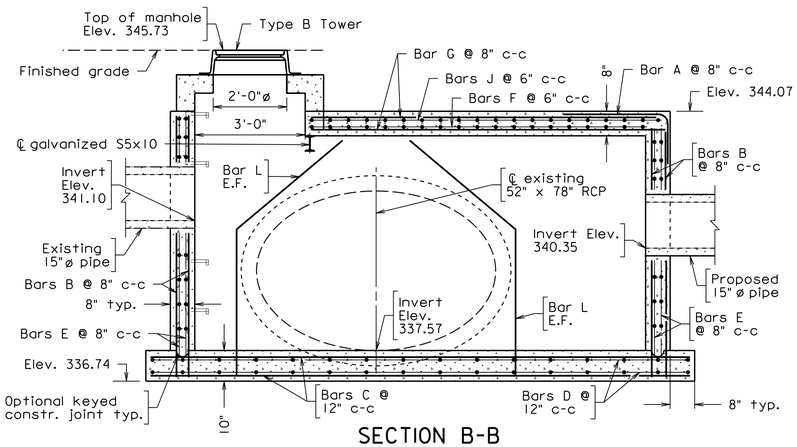


PLAN VIEW OF
JUNCTION BOX STRUCTURE EX46



SECTION B-B

Notes:

The standard pipe bedding shall be extended under the full extends of chamber structure and extend a minimum of 12 inches beyond the structure footprint.

The bedding material shall rest upon undisturbed earth which has a minimum bearing capacity of 2000 psf as field verified by a Geotechnical Engineer.

Provide a galvanized S5x10 beam to be placed under the top slab as shown and extended into the side walls to within 2 inches of the outside face.

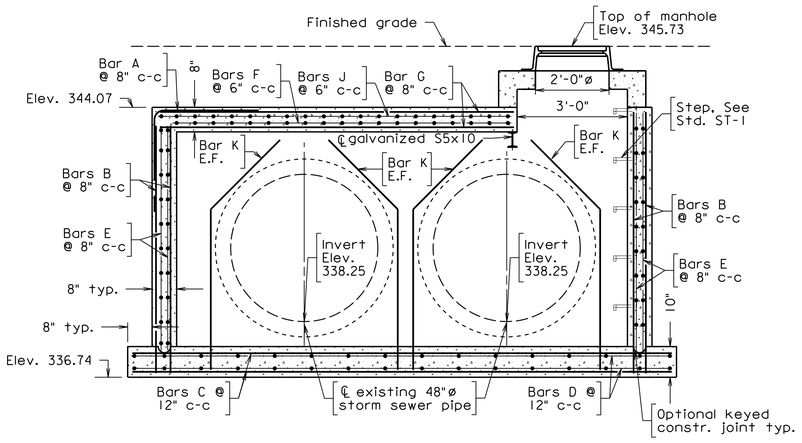
For work point locations and General Notes, see Sheet 6(1).

For reinforcing steel details see sheet 6(1).

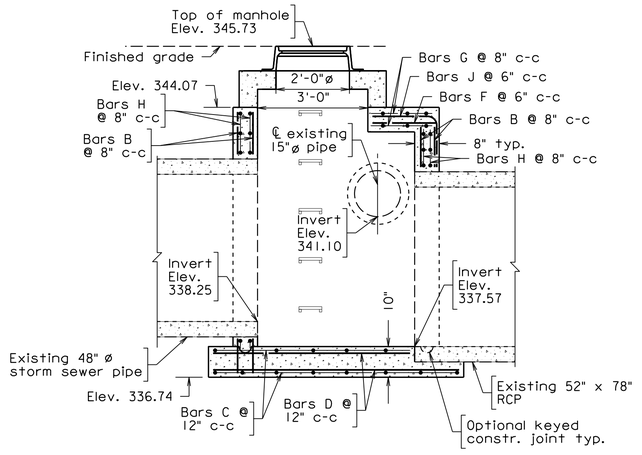
For additional details, see sheet 4.

Contractor shall verify all existing dimensions and inverts prior to construction.

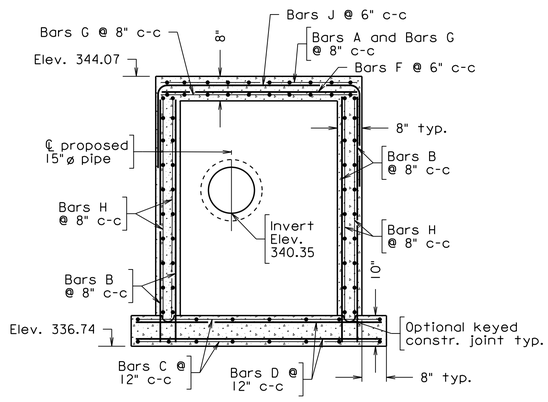
For Type B Tower details refer to Standard JB-1.



SECTION A-A



SECTION C-C



SECTION D-D

Scale: ½" = 1'-0"

	PROJECT	SHEET NO.
	U000-153-197	6(2)

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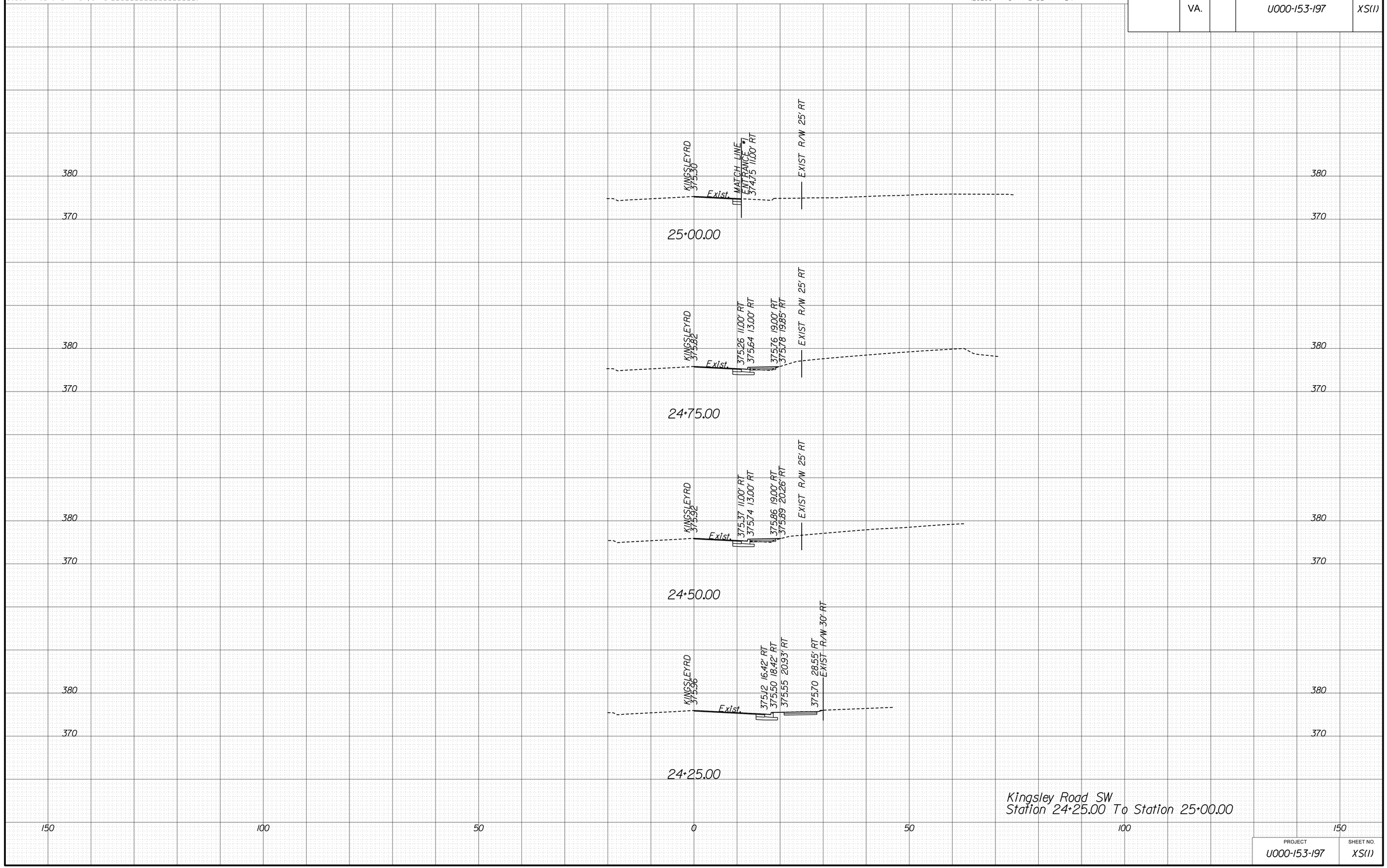

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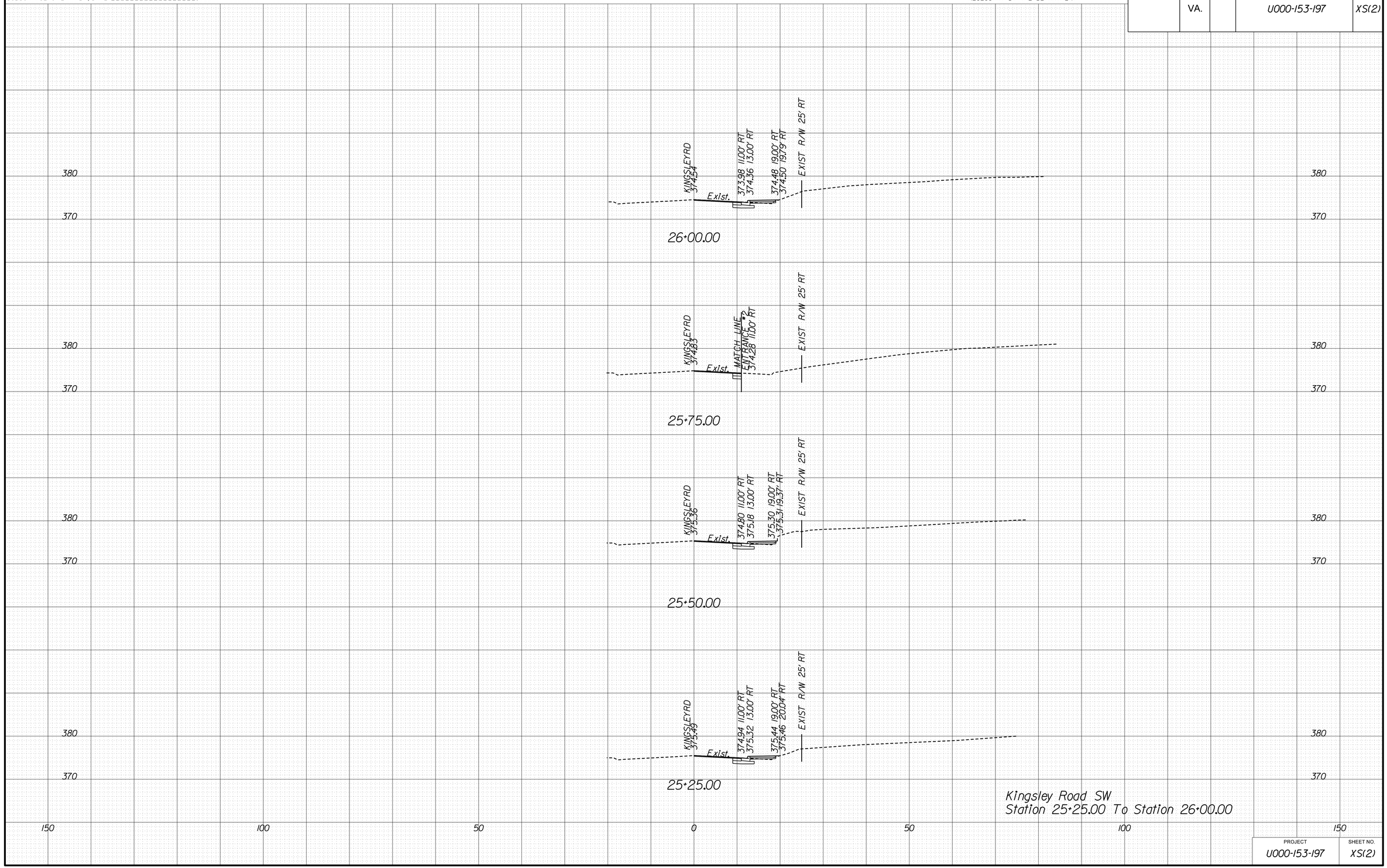

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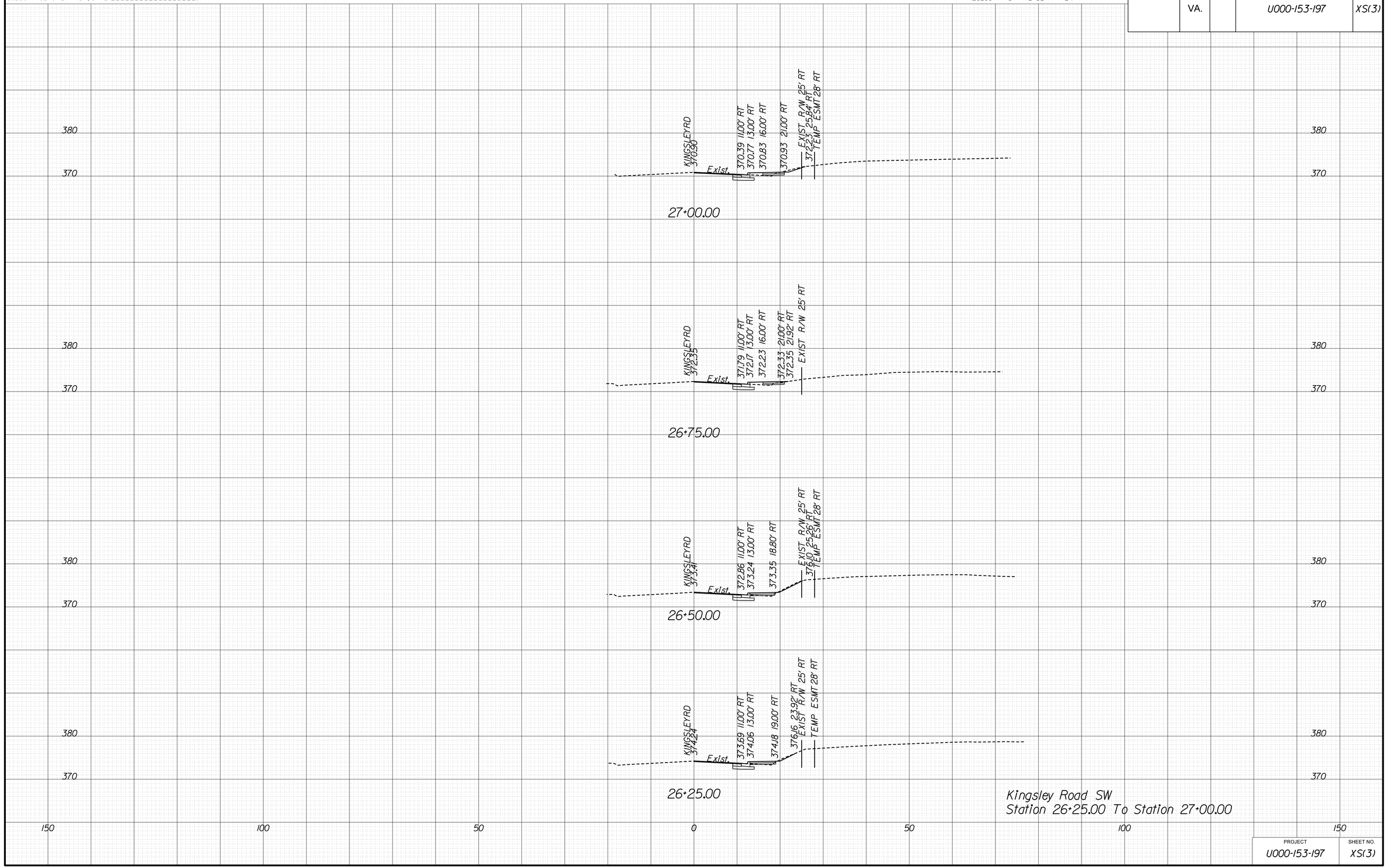

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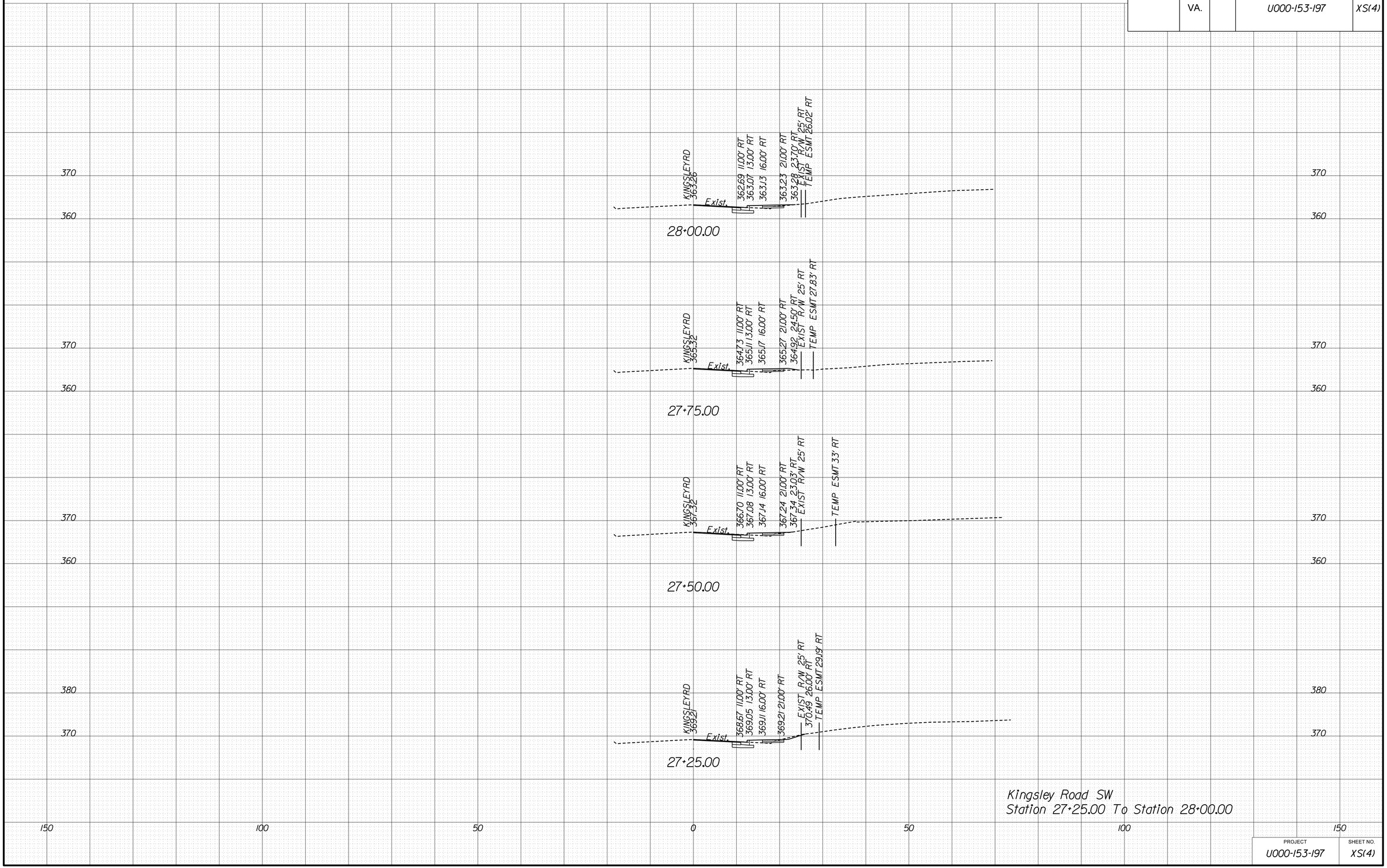

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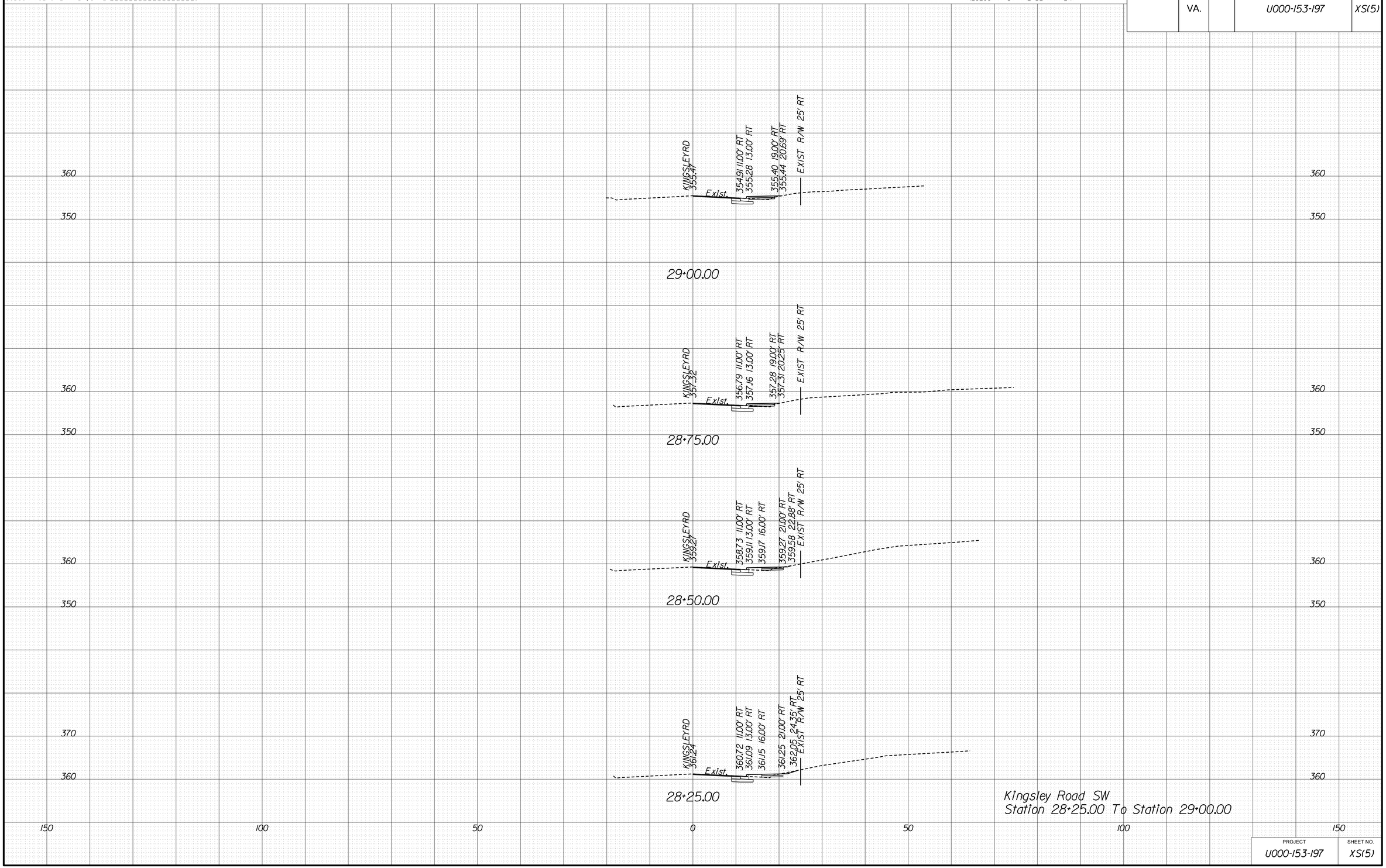

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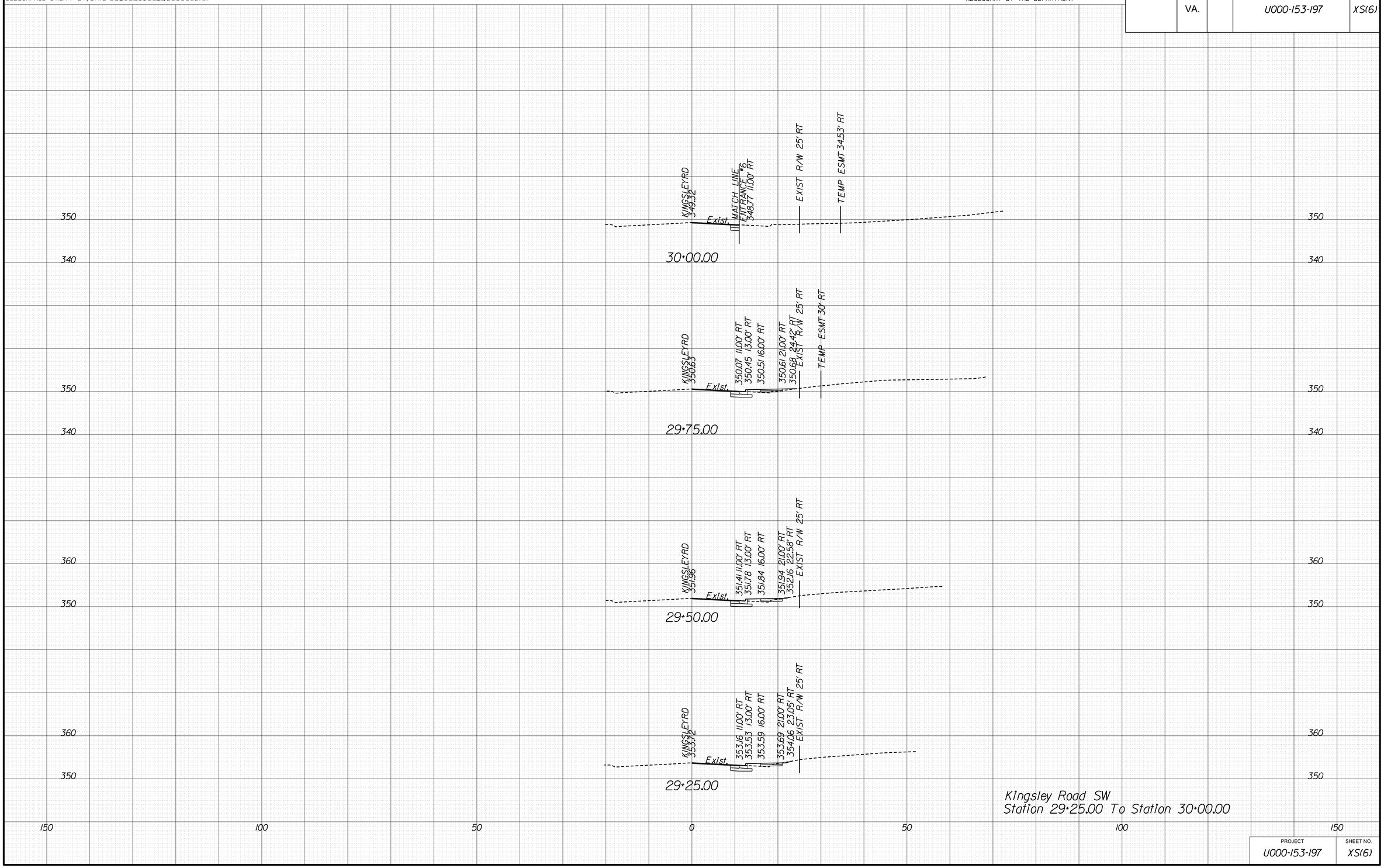

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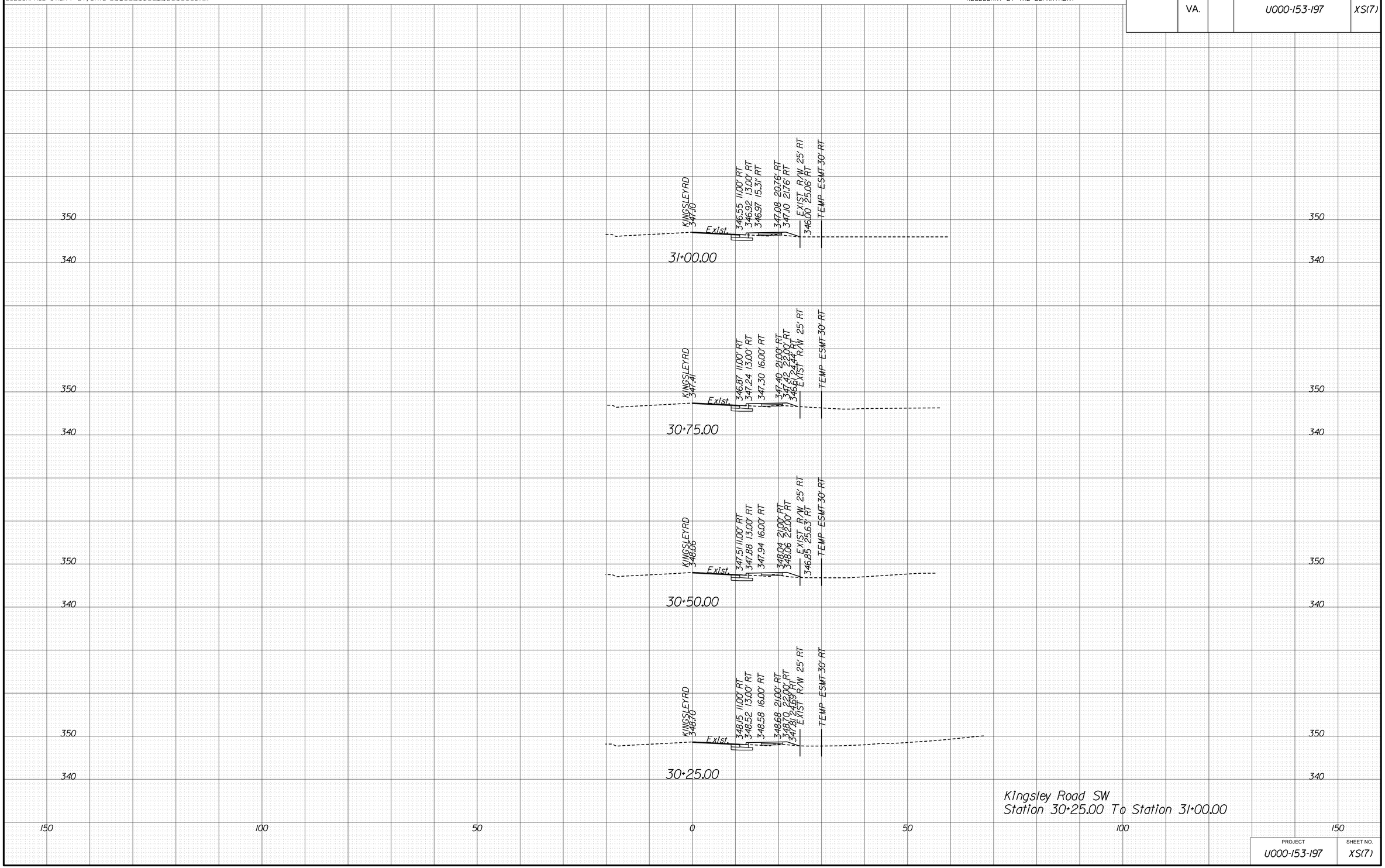

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
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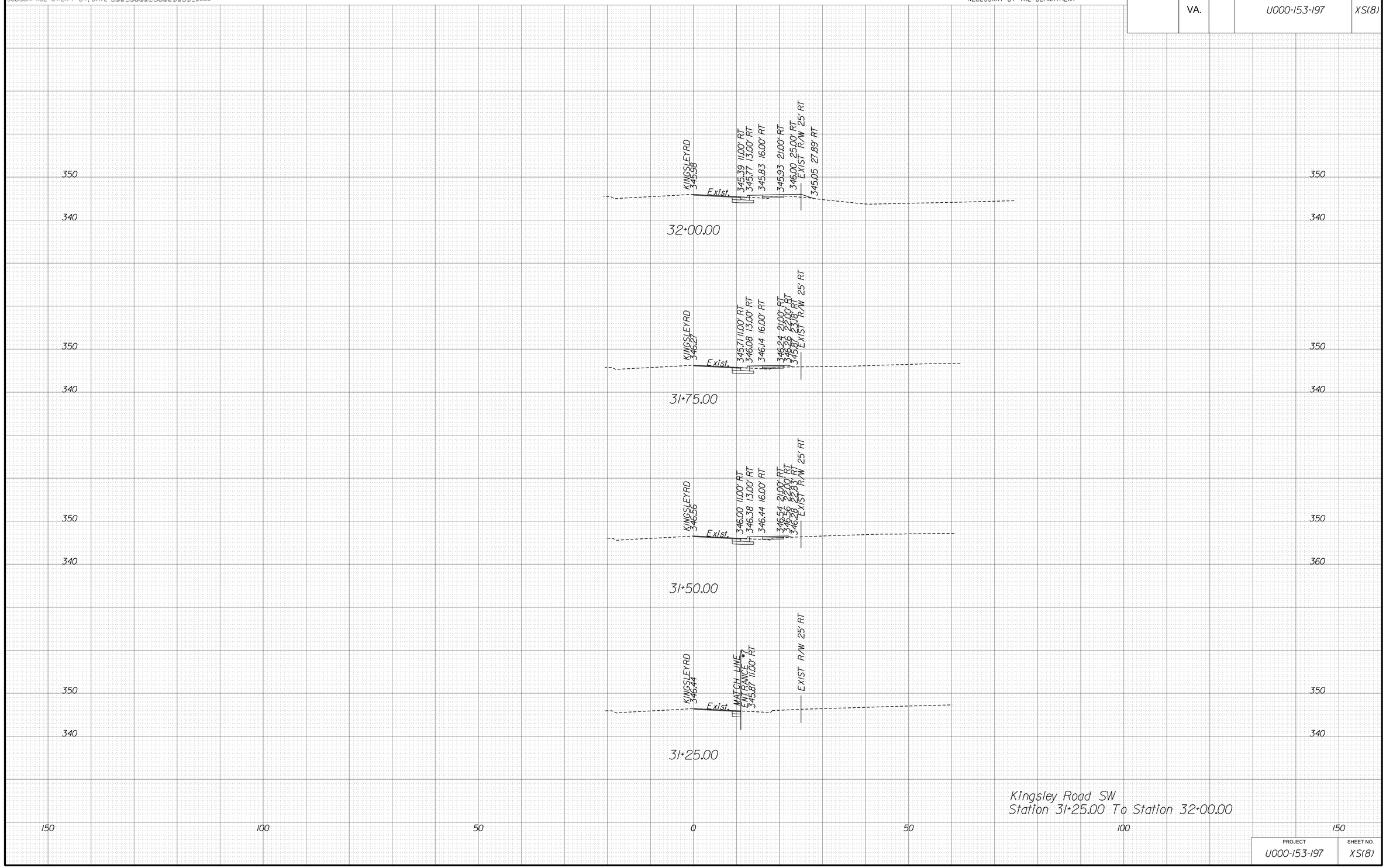

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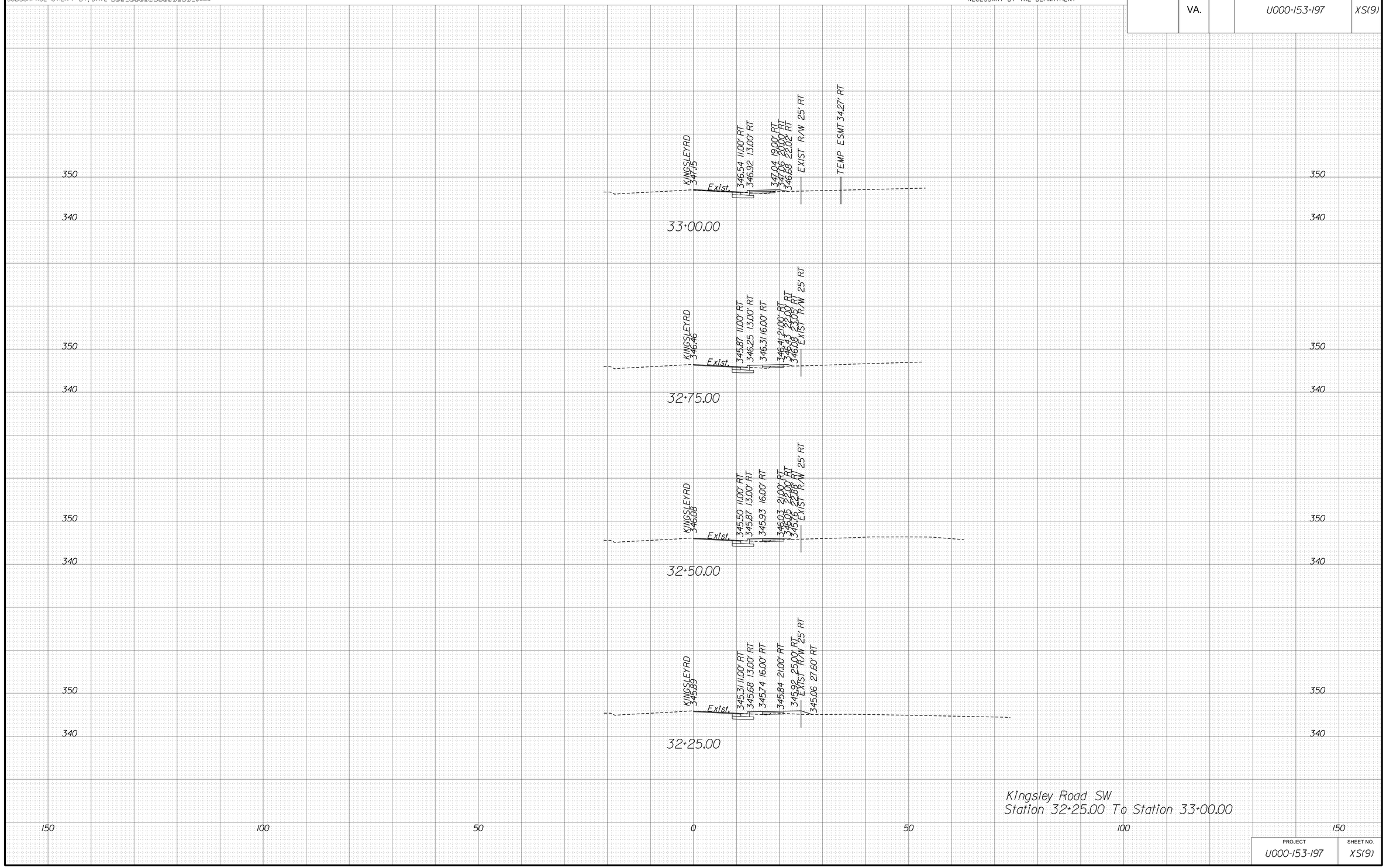

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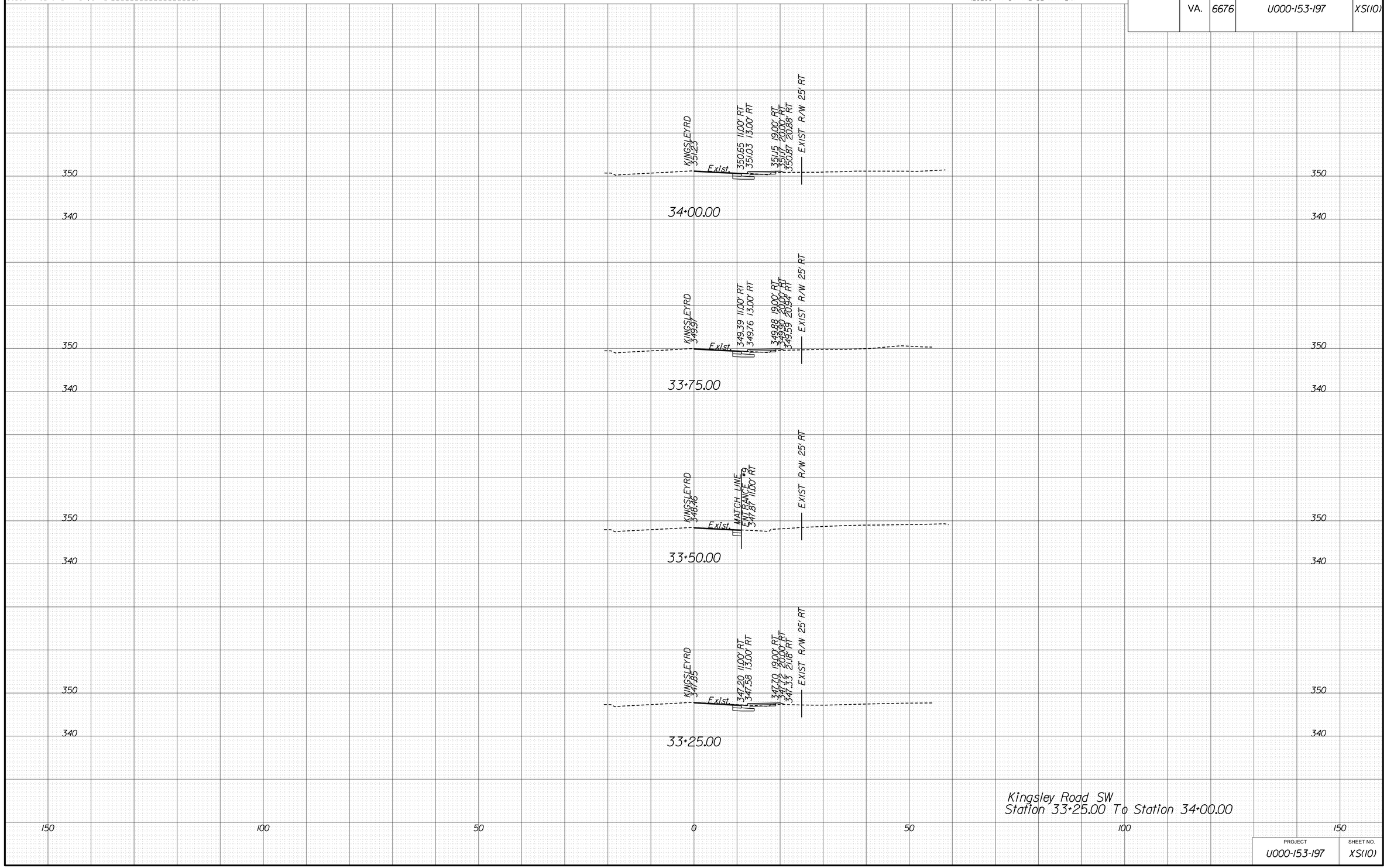
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6676	U000-153-197	XS(10)



Kingsley Road SW
Station 33+25.00 To Station 34+00.00

PROJECT	SHEET NO.
U000-153-197	XS(10)