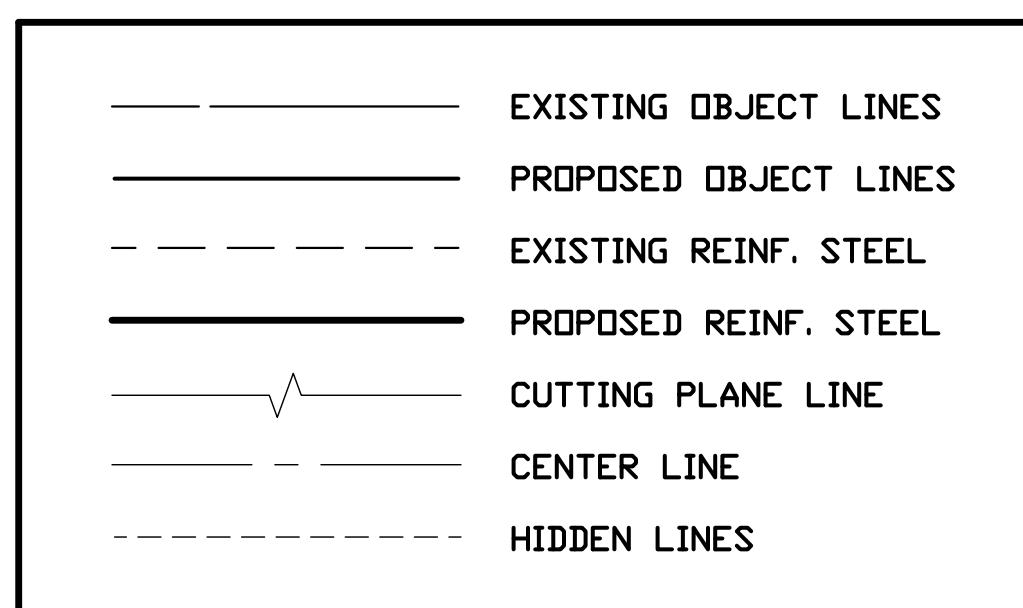


STATE	FEDERAL AID ROUTE	STATE	SHEET NO.
VA.	PROJECT	ROUTE	PROJECT
—	STP-5141(110)P101,R201,C501	—	U000-141-269
Federal Structure No.	00000000032036	FHWA Construction and Scour Code:	N/A
Federal Stewardship and Oversight Code:	NFO	UPC No.	116980

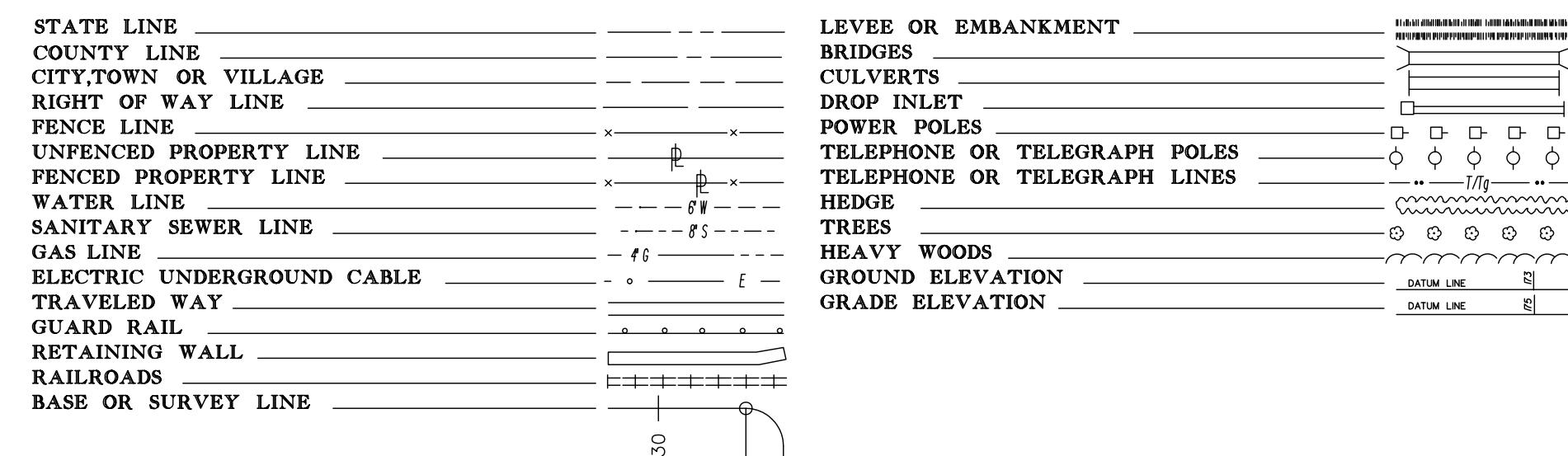


GENERAL CONSTRUCTION NOTE:

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATIONS, VDOT ROAD AND BRIDGE SPECIFICATIONS DATED 2020 & CURRENT REVISIONS AND VDOT ROAD AND BRIDGE STANDARDS, 2016 & CURRENT REVISIONS.



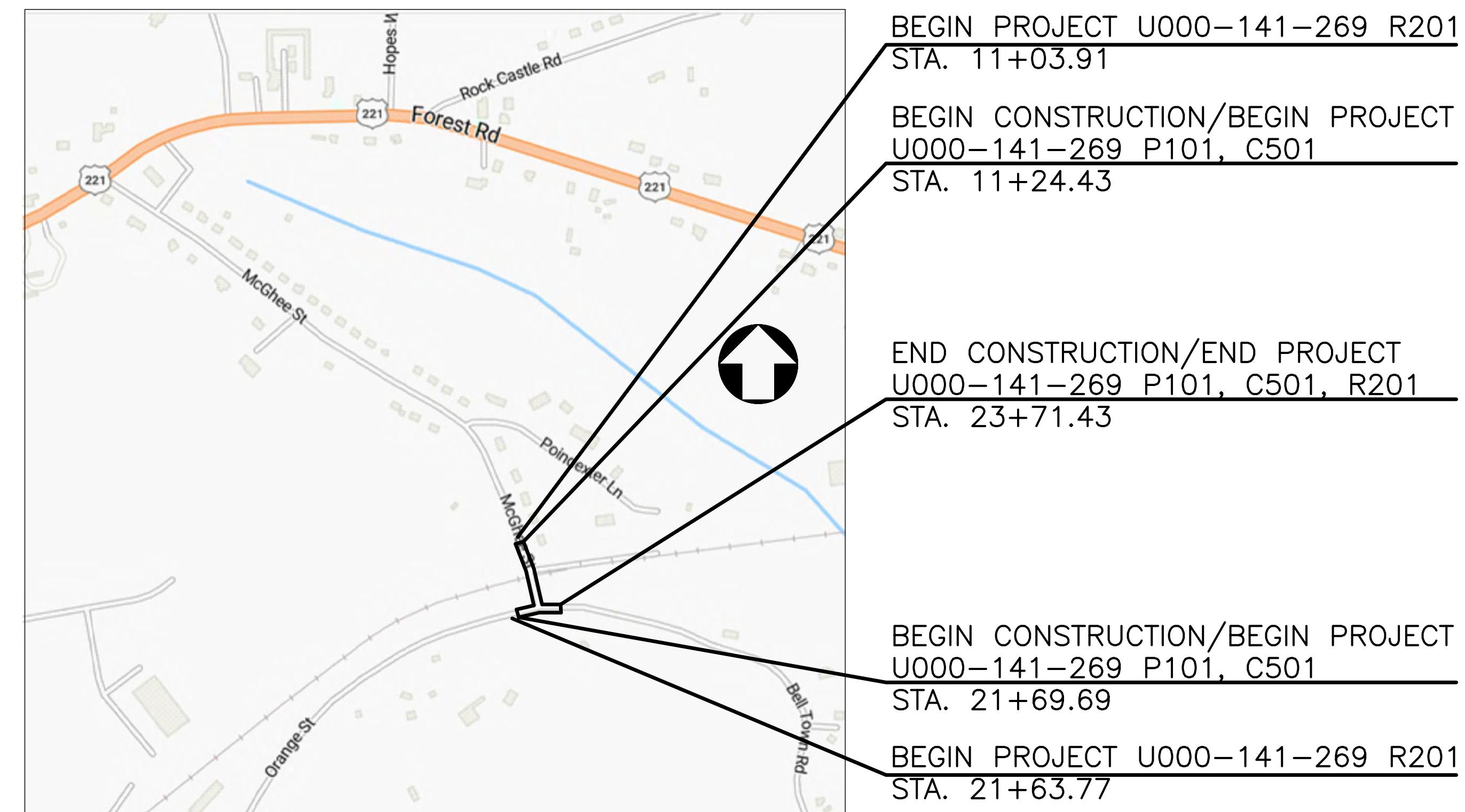
CONVENTIONAL SIGNS



# TOWN OF BEDFORD, VIRGINIA

## PROPOSED BRIDGE REPLACEMENT

MCGHEE STREET OVER NORFOLK SOUTHERN RAILWAY  
FROM: INT. RTE. 718  
TO: 0.06 MI. NORTH INT. RTE. 718



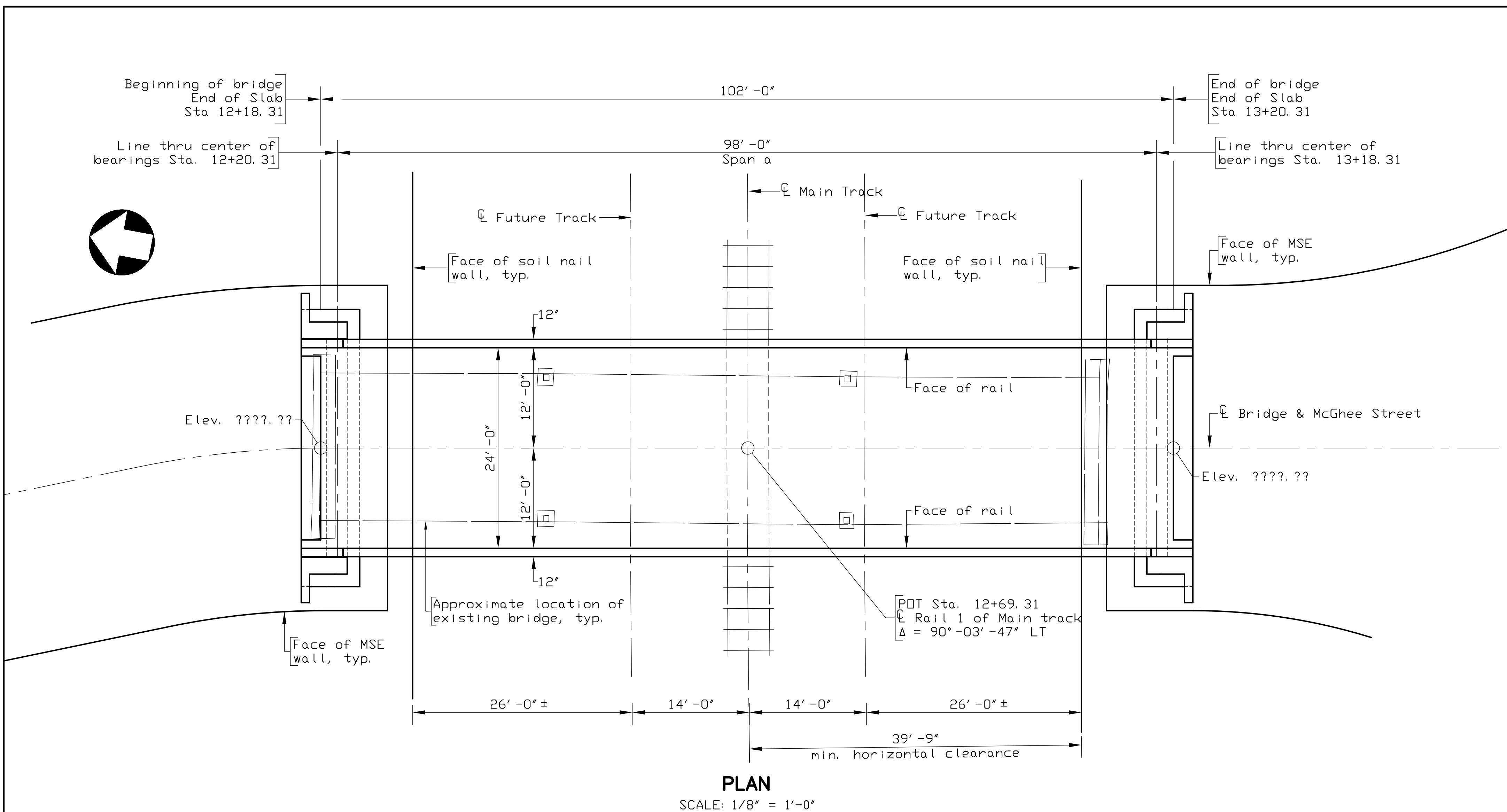
LOCATION MAP

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		TYPE PROJECT	DESCRIPTION
					FEET	MILES	FEET	MILES		
U000-141-269	P101	STP-5141(110)P101	PENG	116980	524.95	0.10	422.95	0.08	PRELIM. ENGR.	FROM INT. RTE. 718 TO 0.06 MI. NORTH INT. RTE. 718
	R201	STP-5141(110)R201	ROWA	116980	524.95	0.10	422.95	0.08	RIGHT OF WAY	FROM INT. RTE. 718 TO 0.06 MI. NORTH INT. RTE. 718
	C501	STP-5141(110)C501		116980	524.95	0.10	422.95	0.08	CONSTRUCTION	FROM INT. RTE. 718 TO 0.06 MI. NORTH INT. RTE. 718

NOTE: PROJECT LENGTH BASED ON CONSTRUCTION BASELINE

SCHWARTZ & ASSOCIATES  
LYNCHBURG, VA  
STRUCTURAL ENGINEER

TIER 1 PROJECT	
LOCALLY ADMINISTERED PROJECTS	
NAME OF LOCALITY	
(SIGNATURE)	
NAME OF RESPONSIBLE LOCAL GOVERNMENT OFFICIAL (TYPED)	
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
DATE	TITLE OF POSITION
NAME OF RESPONSIBLE LOCAL GOVERNMENT OFFICIAL (TYPED)	
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	TITLE OF POSITION
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
DATE	DISTRICT PLANNING AND INVESTMENT MANAGER
DATE	DISTRICT PROJECT DEVELOPMENT ENGINEER
APPROVED FOR RIGHT OF WAY ACQUISITION	
DATE	DISTRICT ADMINISTRATOR
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	DISTRICT PLANNING AND INVESTMENT MANAGER
DATE	DISTRICT PROJECT DEVELOPMENT ENGINEER
APPROVED FOR CONSTRUCTION	
DATE	DISTRICT ADMINISTRATOR



## DESIGN EXCEPTION(S):

None.

## GENERAL NOTES:

Width: 24'-0" clear roadway, 2 - 1'-0" CPSR

Span layout: 102'-0" steel plate girder

Capacity: HL-93 loading.

## Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020; and SP407-000500 (Special Provision for Superstructure Erection Stability).

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

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016 including all current revisions.

These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions included in the contract documents.

This project is to be constructed in accordance with the Virginia Department of Transportation Work Area Protection Manual, June 2011 and latest revisions.

Design loading includes 20 psf allowance for construction tolerances and construction methods.

Design loading includes 15 psf allowance for future wearing surface.

The use of prestressed deck panels as stay-in-place forms will not be permitted.

Concrete in superstructure including deck, rail, integral backwall, and terminal walls shall be Low Shrinkage Class A4 Modified in accordance with Section 217.12(a); in abutments Class A3.

All structural steel, including bearings, shall be ASTM A709 Grade 50W and shall be unpainted.

Spacing and height of stud shear connectors shall be shown on shop drawings (working drawings). The height of the stud shear connectors shall be 6" min.

All reinforcing steel shall be deformed and shall conform to ASTM A615 Grade 60 except for steels noted as Corrosion Resistant Reinforcing (CRR) which shall conform to Section 223 of the Specifications. 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.

The Class(es) of CRR steel(s) required on this project is/are noted on plan sheets and in the reinforcing steel schedule. Class III may be substituted for Class I.

All substructure reinforcing steel shall have a minimum clear cover of 3".

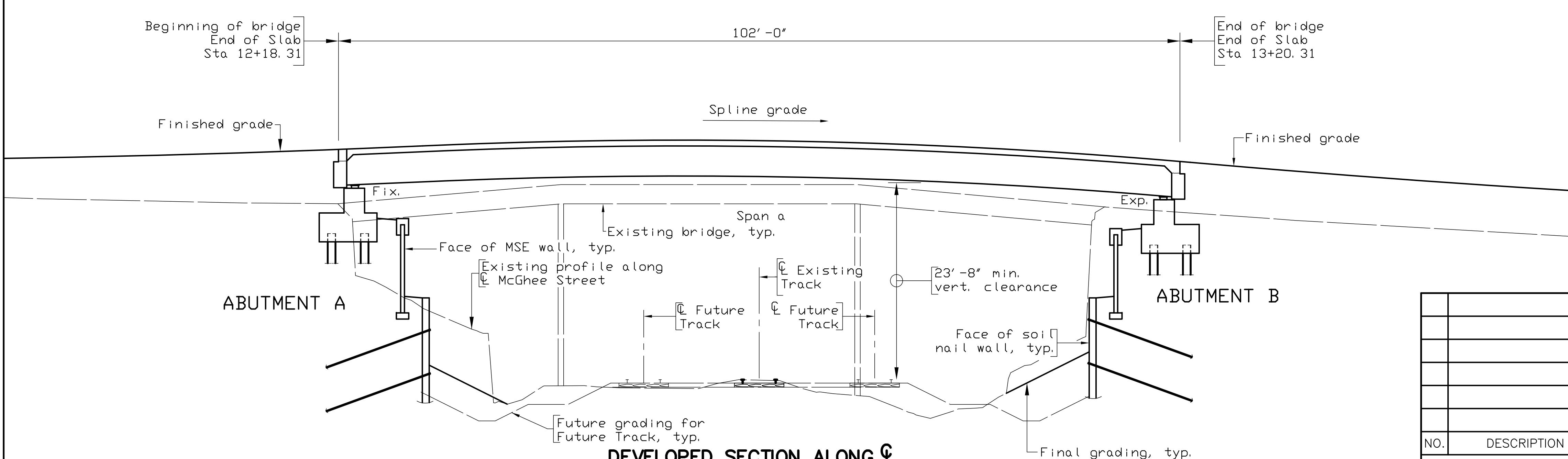
Virginia Structure No. of existing bridge is 8000. Plans are not available.

The existing structure is designated a Type B structure in accordance with Sec. 411.

The contractor shall plan and execute the work such that no more than 10,000 square feet of land disturbance occurs at any given time.

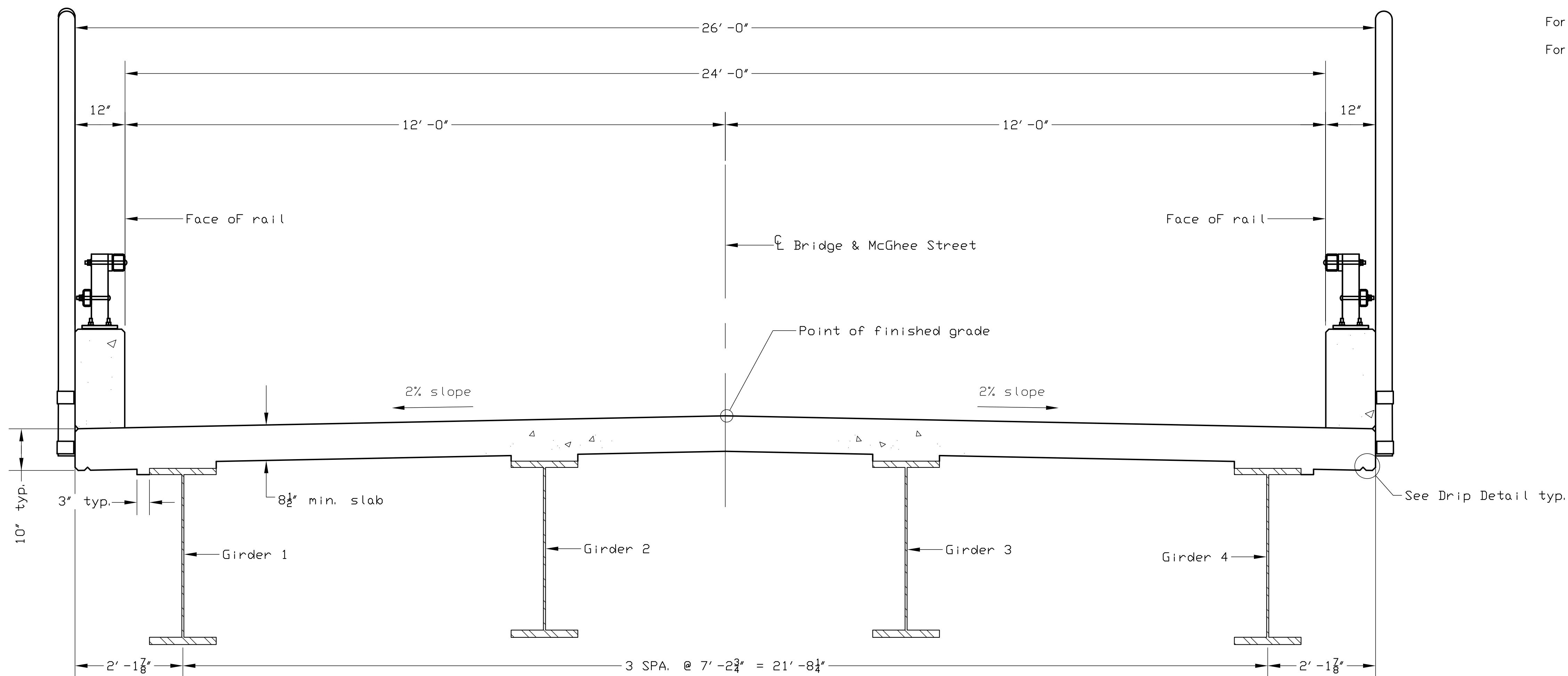
The Contractor shall provide the Engineer safe access to all areas of work throughout course of construction and for final inspection after all work is complete.

All areas disturbed in this project, not covered by other notes, should be restored to original or better conditions as directed by the Engineer. All costs included in other items.



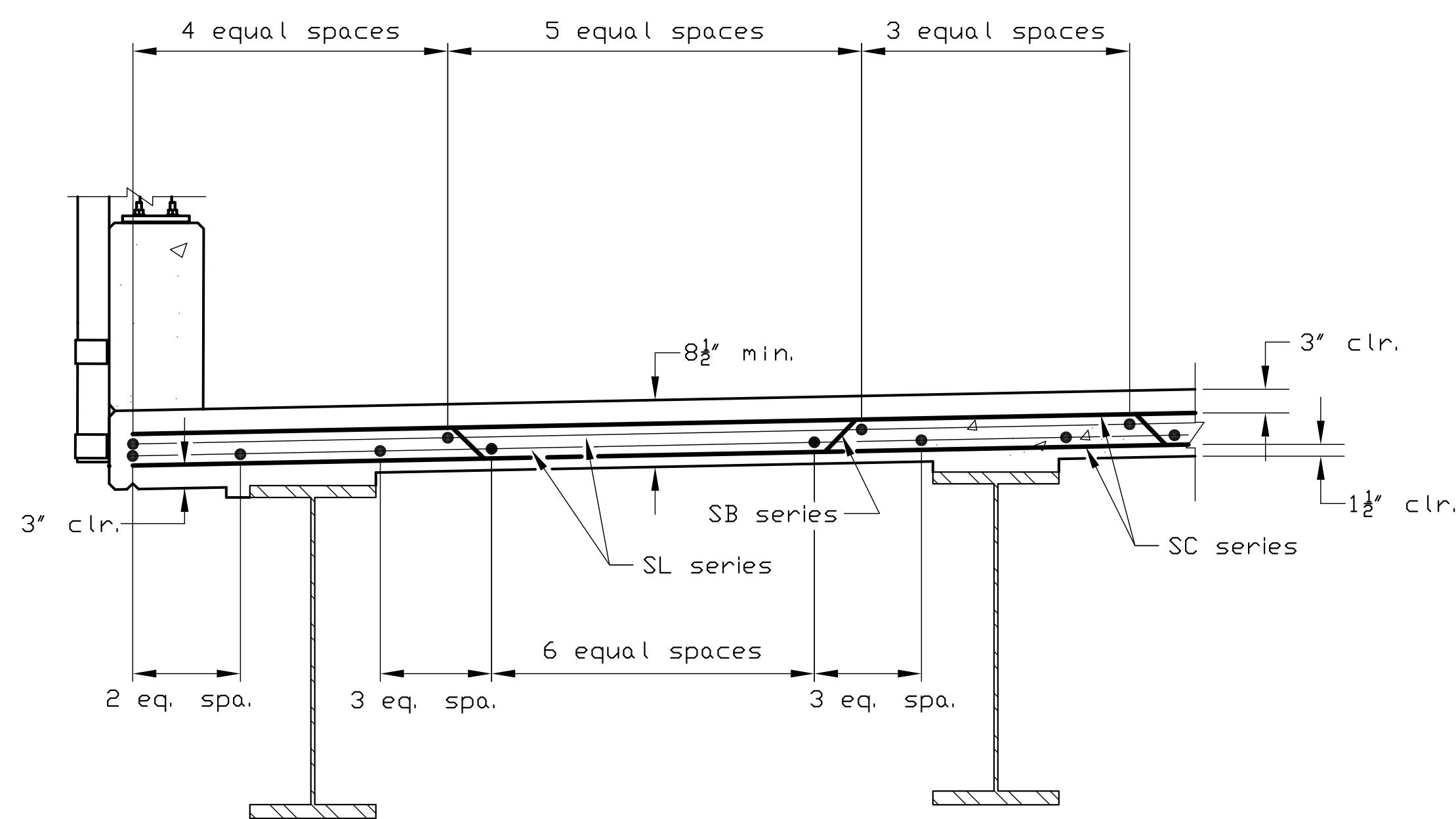
CADD REFERENCE NO.: 2023030\_BRIDGE

NO.	DESCRIPTION	DATE	
REVISIONS			
FOR TABLE OF REVISIONS SEE SHEET 3			
COMM. NO. 2023030			VA. STR. NO.: 8000
			NBIS NO.: 32036
			<b>SCHWARTZ &amp; ASSOCIATES, INC.</b> <b>CONSULTING ENGINEERS</b> <b>7331 TIMBERLAKE ROAD</b> <b>LYNCHBURG, VA.</b>
			<b>MCGHEE STREET OVER</b> <b>NORFOLK SOUTHERN RAILWAY</b> <b>TOWN OF BEDFORD, VA</b> <b>PLAN, ELEVATION &amp; GENERAL NOTES</b>
DESIGNED BY: APS			DRAWN BY: APS
SCALE: AS SHOWN			CHECKED BY: ???
PLAN NO.:			
DATE: NOVEMBER 18, 2024			SHEET: 2 OF 32

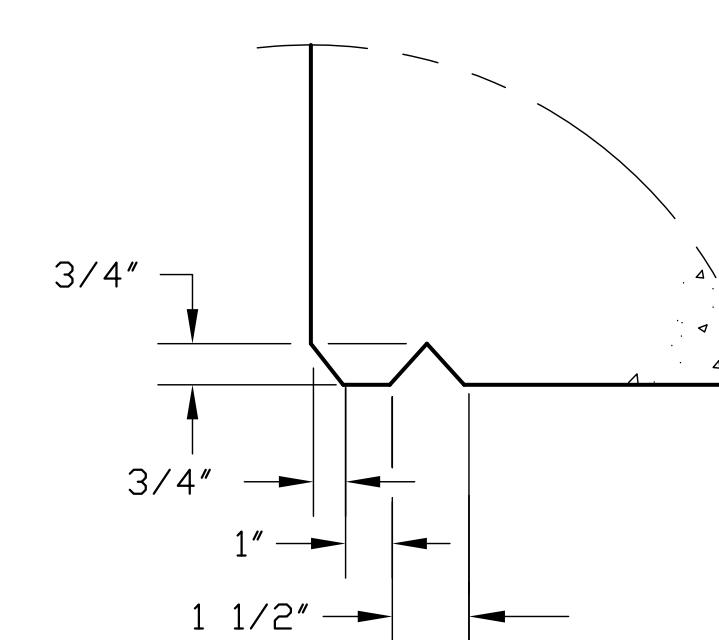


## TRANSVERSE SECTION

SCALE: 3/4" = 1'-0"



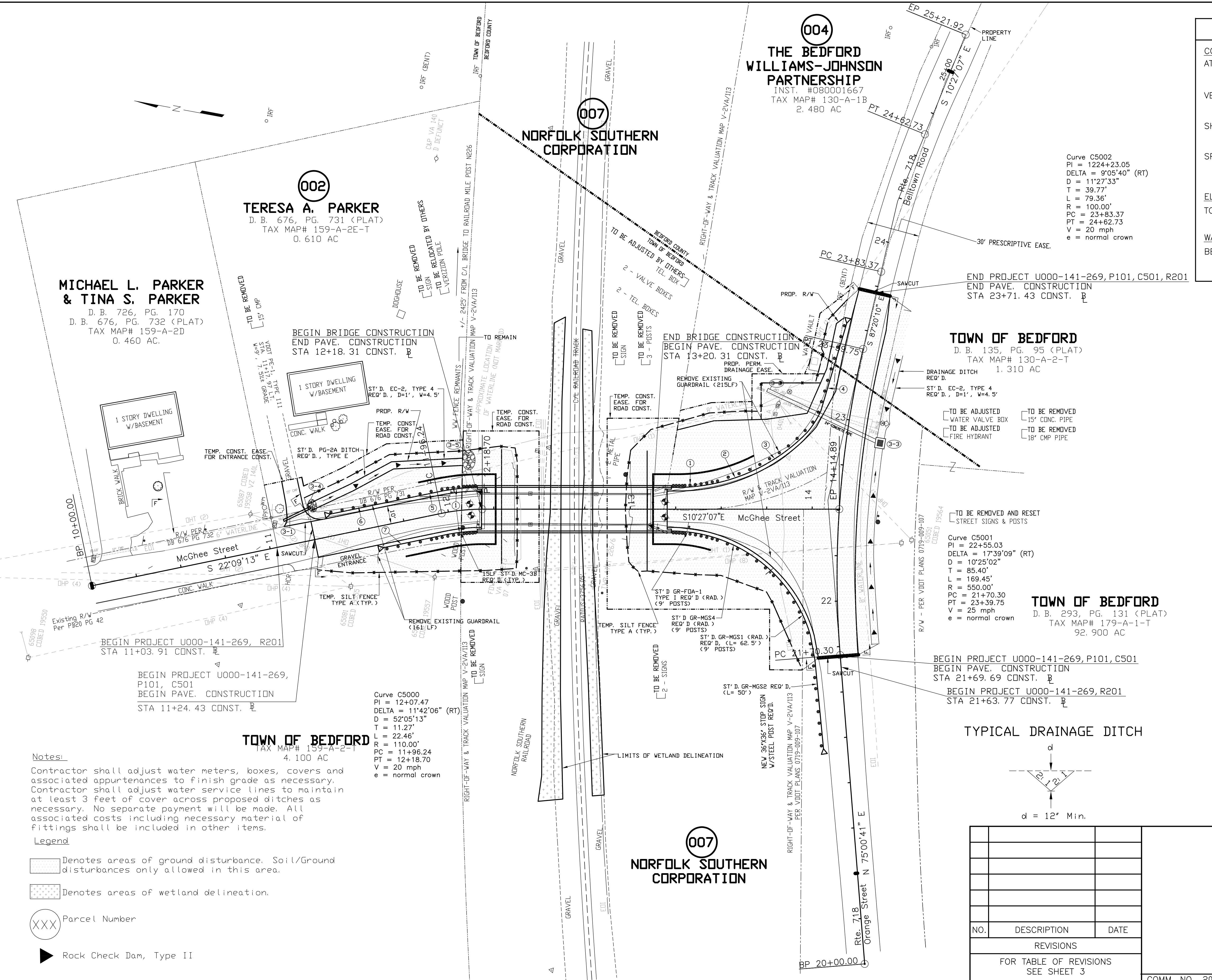
## PART TRANSVERSE SECTION

SCALE: 3/4" = 1'-0"  
(Parapet reinforcing not shown)DRIP DETAIL  
Not to Scale

NO.	DESCRIPTION	DATE	VA. STR. NO.: ???	NBIS NO.: ???
			DESIGNED BY: APS	DRAWN BY: APS
			SCALE: AS SHOWN	CHECKED BY: ???
	REVISIONS		COMM. NO. 2023030	PLAN NO.: DATE: NOVEMBER 18, 2024 SHEET: 9 OF 32

**S&T** SCHWARTZ & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
7331 TIMBERLAKE ROAD  
LYNCHBURG, VA.

MCGHEE STREET OVER  
NORFOLK SOUTHERN RAILWAY  
TOWN OF BEDFORD, VA  
TRANSVERSE SECTION



UTILITY OWNERS	
COMMUNICATIONS:	
AT&T	JARROD SHINN Jq629n@att.com 540-353-3787
VERIZON	LESLIE HUDSON leslie.e.hudson@verizon.com 434-237-9522
SHENTEL CABLE	TIM BERKLAND timothy.berkland@emp.shentel.com 434-215-8931
SPRINT/COGENT COMMUNICATIONS	FRED MARTIN fmartin@cogentco.com 540-243-6868
ELECTRIC:	TOWN OF BEDFORD ELECTRIC - AJ FAIRCHILD ajfairchild@bedfordva.gov 540-587-7036
WATER:	BEDFORD REGIONAL WATER AUTHORITY - HOWARD DeMARSH h.demarsh@brwa.com 540-586-7679 ext. 116

Proposed Guardrail Descriptions

- 1 ST'D. FIXED OBJECT ATTACHMENT GR-FDA-1, TYPE 1 (RAD.) REQ'D. (9' POSTS)
- 2 ST'D. GUARDRAIL HEIGHT TRANSITION GR-MGS4, (RAD.) REQ'D. (9' POSTS)
- 3 ST'D. RAD. GUARDRAIL GR-MGS1, REQ'D. (9' POSTS) (L = 75')
- 4 ST'D. GUARDRAIL TERMINAL, GR-MGS2, REQ'D. (L = 50')
- 5 ST'D. GUARDRAIL GR-2 REQ'D. (L = 12.5')
- 6 ST'D. ALT. BREAKAWAY CABLE TERMINAL, GR-9 REQ'D. (L = 50')
- 7 NS GUARDRAIL TERMINAL, TL-2 GR-9 REQ'D. (L = 32.5')

Proposed Drainage Descriptions

- 1 17'-15" Corr. Metal Pipe (2' min. Cover) Inv. In 895.50, Inv. Out 894.19
- 2 67'-24" Concrete Pipe (2' min. Cover) Class III Inv. In 883.20, Inv. Out 882.58±
- 3-1 ST'D. DI-1 Drop Inlet W/Grate Req'd. Top Elev. = 886.70 H = 3.5', Inv. 883.20 Sta. 22+90.00 Rt. IS-1 Req'd. Inv. Out (24" RCP) = 883.20
- 3-2 Class A1 Dry Riprap Req'd. W/Geotextile Fabric D=18", 4' X4'
- 3-3 Class I Dry Riprap Req'd. W/Geotextile Fabric D=24", 5' X5'

UPC No. 116980	VA. STR. NO.: 8000	NBIS NO.: 32036
<b>SCHWARTZ &amp; ASSOCIATES, INC.</b>		
CONSULTING ENGINEERS		
7331 TIMBERLAKE ROAD		
LYNCHBURG, VA.		
<b>MCGHEE STREET OVER NORFOLK SOUTHERN RAILWAY TOWN OF BEDFORD, VA ROADWAY PLAN</b>		
DESIGNED BY: APS	DRAWN BY: APS	CHECKED BY: ???
SCALE: 1" = 25'	PLAN NO.:	
COMM. NO. 2023030	DATE: OCTOBER 6, 2025	SHEET: 21 OF 32

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA	0	U000-141-269, P101, R201, C501	17A

# RIGHT OF WAY DATA SHEET

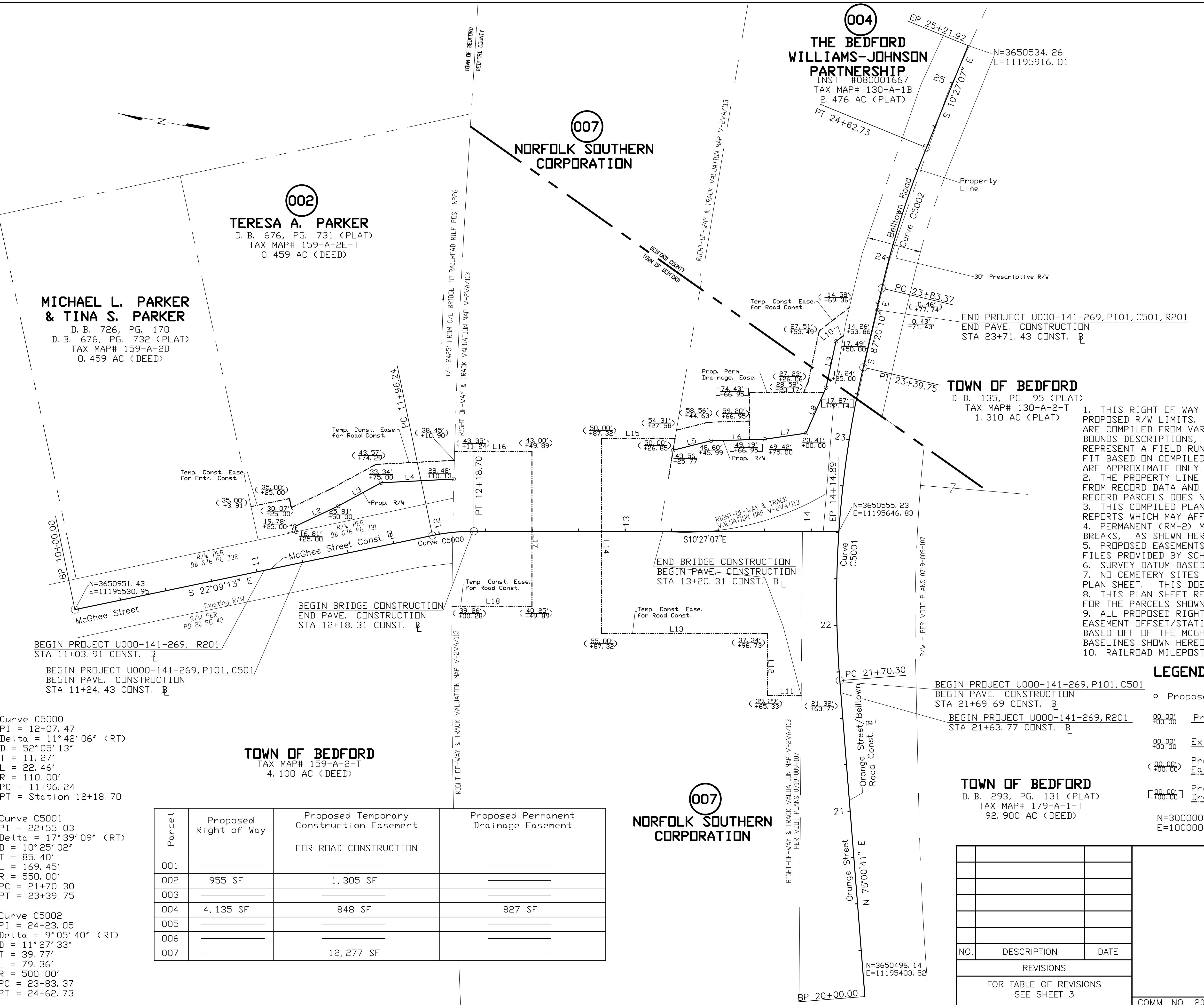
CADD REFERENCE NO.: 2023030\_R0AD\_PLAN

NO.	DESCRIPTION	DATE	
REVISIONS			
FOR TABLE OF REVISIONS SEE SHEET 3			
COMM. NO. 2023030			VA. STR. NO.: 8000
			NBIS NO.: 30236
			<b>SCHWARTZ &amp; ASSOCIATES, INC.</b> <b>CONSULTING ENGINEERS</b> <b>7331 TIMBERLAKE ROAD</b> <b>LYNCHBURG, VA.</b>
			<b>MCGHEE STREET OVER</b> <b>NORFOLK SOUTHERN RAILWAY</b> <b>TOWN OF BEDFORD, VA</b> <b>RIGHT OF WAY DATA SHEET</b>
DESIGNED BY: APS			DRAWN BY: APS
SCALE: 1" = 25'			PLAN NO.:
DATE: OCTOBER 6, 2025			SHEET: 17A OF 32

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA	0	U000-141-269, P101, R201, C501	17B

UPC No. 116980

R/W Line Data Table		
Line	Bearing	Length (ft)
L1	N67° 50' 47" E	2. 97
L2	S35° 42' 51" E	25. 72
L3	S38° 54' 57" E	26. 11
L4	S13° 23' 04" E	39. 14
L5	S24° 27' 16" E	20. 84
L6	S12° 04' 28" E	29. 02
L7	S18° 54' 16" E	22. 51
L8	S76° 48' 00" E	26. 65
L9	S88° 21' 27" E	25. 46
L10	S47° 26' 01" E	27. 93
L11	N10° 02' 11" W	18. 04
L12	N79° 32' 53" E	33. 29
L13	N10° 27' 07" W	89. 28
L14	N79° 32' 53" E	105. 00
L15	S10° 27' 07" E	59. 72
L16	S10° 27' 07" E	41. 58
L17	S79° 32' 53" W	83. 25
L18	N10° 27' 07" W	42. 98



# MAINTENANCE OF TRAFFIC GENERAL NOTES

## GENERAL

Unless otherwise approved or directed by the Engineer, the Contractor shall plan and execute the work in accordance with the Maintenance of Traffic Plans.

Traffic control devices and safety measures shall comply with the most current editions/revisions of the following:

FHWA Manual of Uniform Traffic Control Devices  
Virginia Work Area Protection Manual  
and current revisions.  
VDOT Road and Bridge Standards (2016)  
VDOT Road and Bridge Specifications (2020)

See drawing TTC-23.2, Virginia Work Area Protection Manual, 2011 for information not shown in these drawings.

The suggested traffic control features depict the major traffic control items. Daily control of traffic including the placement, maintenance and removal of traffic control devices shall be the Contractor's responsibility.

It is not the intent of the traffic control features designated on the plans to enumerate every detail which must be considered during the construction, but only to indicate the general handling of traffic. The Contractor shall submit a detailed traffic control plan to the Engineer for approval prior to beginning construction.

The Engineer shall be notified at least 72 hours prior to any modifications to existing pavement markings.

The clear zone shall be maintained free of parked equipment and stored materials or otherwise protected in accordance with the Work Area Protection Manual.

All Signs, Group 2 Channelizing Devices, Traffic Barrier Services, barricades, and any other devices used in the construction zone shall be furnished by the Contractor and shall be kept clean and properly aligned at all times.

All traffic signs required for this project shall be furnished, erected and maintained by the Contractor.

Contractor shall maintain One (1) 10'-0" travel lane, when providing flagging operations in the intersection of Orange Street, Belltown Road and McGhee Street.

The contractor will be allowed to close the intersection of Orange Street, Belltown Road and McGhee Street for 30 consecutive days in order to complete all the intersection work. Any other needed traffic control shall be done with flagging operations in accordance with the most current addition of the VA Work Area Protection Manual (Figure TTC-23.2). Portable Temporary Rumble strips will not be required.

Group 1 & 2 channeling Devices, Pavement Markings and Type III Barricade, shall be installed as shown on these Plans, TTC-23.2 or as directed by the Engineer.

Prior to any ground disturbance activities, the contractor shall contact Miss Utility.

The contractor shall work around all utilities on this project.

## TRAFFIC BARRIER SERVICE

Traffic Barrier Service shall be installed and removed so as not to present any blunt end or hazard to the motoring public. The placement and removal of the traffic barrier service and barricades are to be done by the contractor and approved by the Work Zone Safety Coordinator. The Contractor shall lift traffic barrier service into place. Sliding traffic barrier service into place will not be permitted.

Traffic barrier service concrete shall conform with St'd. MB-7D of the VDOT Road and Bridge Standards.

## SIGNS

Construction signs shall be furnished, installed and maintained by the Contractor.

Sign spacing and location shall be adjusted to fit field conditions as directed by the Engineer.

All construction signs that govern traffic flow through the work zone shall be covered or removed and stored away from traffic when not in use.

The Contractor shall temporarily cover any existing signs that are contrary to construction signs and uncover these at the completion of the project as directed by the Engineer.

Covering of signs shall be in accordance with VDOT Road & Bridge Specifications, 2020, 701.03.

## PERMENANT PAVEMENT MARKINGS

All permanent pavement markings shall be furnished and installed by the Contractor, as shown on sheet ?.

4) The Town Police will take control of the incident and direct its clearing and restoration to normal traffic conditions.

5) The Town Police report of the incident will be reviewed by the Public Works Director and Construction Engineer to determine if any modification to the Temporary Traffic Control Plan is necessary. If it is necessary to alter the plan, then a meeting will be called with the Contractor, Town project personnel, Engineer and Town Police (if necessary) to discuss modification and implementation of an improved traffic control plan.

UPC No. 116980

# TRAFFIC MANAGEMENT PLAN

## PROJECT DESCRIPTION

This project entails a Total Bridge Replacement of McGhee Street over Norfolk Southern Railroad (Structure No. 8000) located in the Town of Bedford, Virginia. McGhee Street is classified as an GS-7 Urban Collector Street with a posted speed limit of 25 mph with a single lane roadway (2021 ADT 430). This structure has been closed to traffic for many years. Travelers include Local Residents, Commuters, and through Vehicles.

The approach roadway improvements extend approximately 114' North of Abutment A, 94' South of Abutment B, 214' along Orange Street and Belltown Road. Speed limit is based on existing regulatory signs. Speed limit shall remain 25 mph during construction.

This project is a Tier I Project.

## SPECIAL DETAILS

Special details for Maintenance of Traffic are shown on sheets ? - ?.

## PUBLIC COMMUNICATIONS PLAN

### NOTIFICATIONS:

The contractor shall provide advanced Notifications of all Lane Closures (72 hours minimum) to the Public Works Director and Project Manager. The Town Public Works Director will communicate with all agencies and schools in close proximity, radio, television and emergency services, as determined appropriate.

### TRANSPORTATION OPERATIONS PLAN:

1) The following is a list of local emergency contact agencies:

Virginia State Police, 540-586-7905  
Town of Bedford Police Department, 540-587-6011  
Bedford Fire Station, 540-586-3433  
Emergency & Haz-Mat Center - 911  
Brian Casella VDOT Bedford Resident Engineer, 540-586-7941  
VDOT SW Traffic Operation Center, 540-375-0170

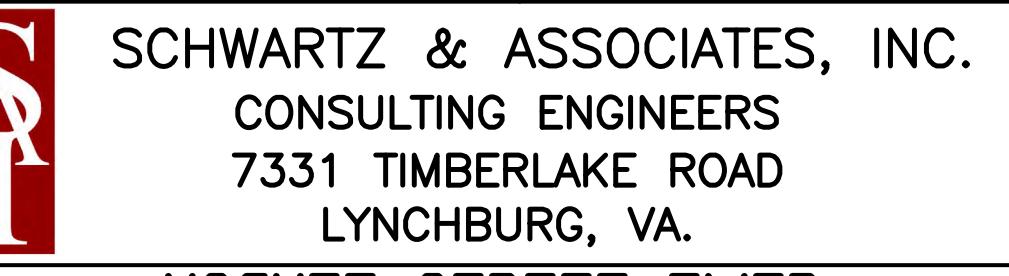
2) Procedures to respond to traffic incidents that may occur in the work zone:

- Contractor to notify Town Police and Inspector in charge.
- Depending upon severity of incident, Contractor may have to shut down work.
- Upon arrival on scene, Town Police to determine response necessary to allow traveling public around incident.
- Inspector to notify Construction Manager of incident.

3) Process of Notification of incident to be followed is:

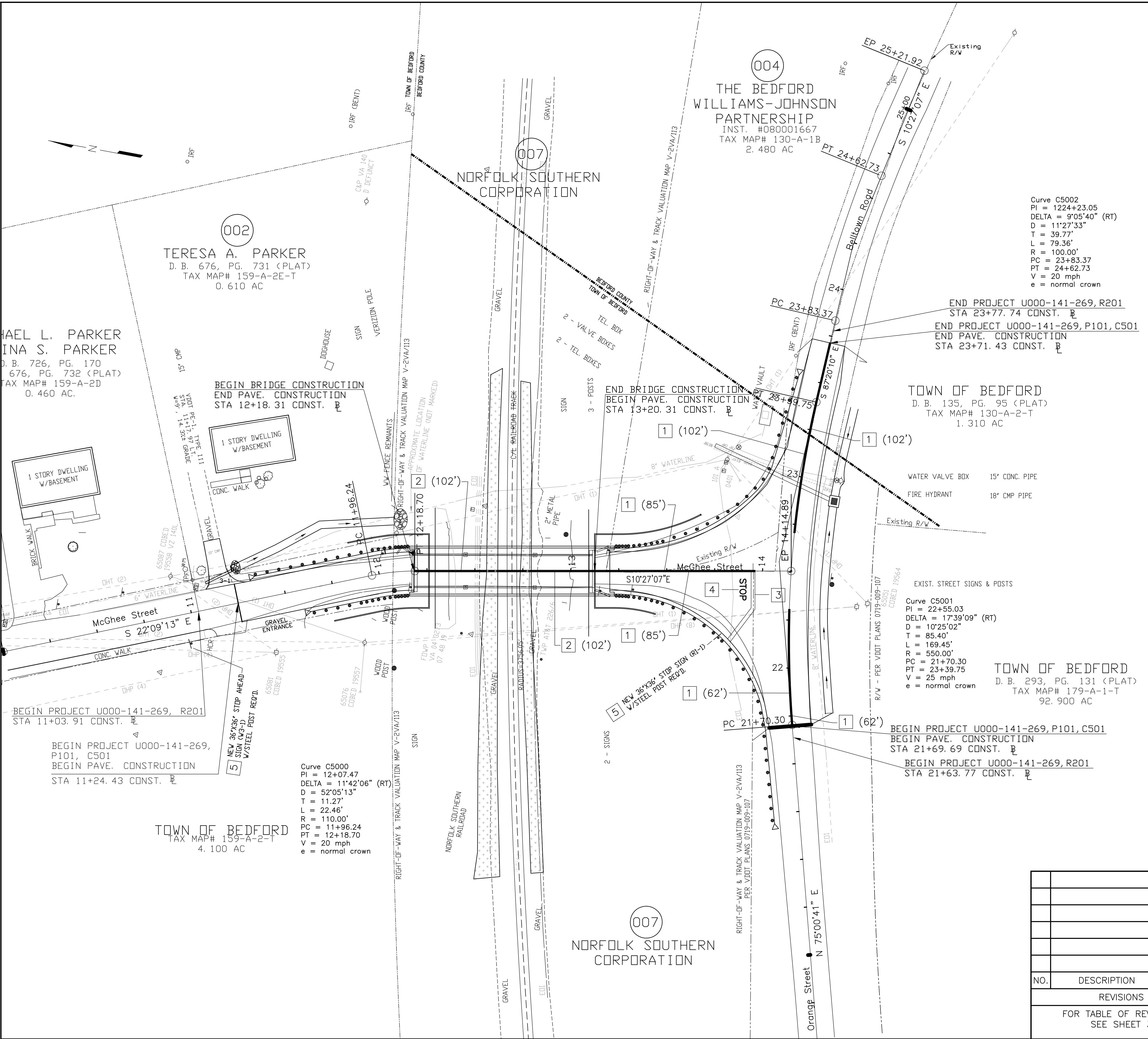
Contractor to call:

Project Inspector – Inspector To Be Determined
Project Manager (Construction Manager) – TBD
Public Works Director, Town of Bedford – Tom Woodard --- 540-587-6083

VA. STR. NO.: 8000	NBIS NO.: 32036	
		
<b>MCGHEE STREET OVER NORFOLK SOUTHERN RAILWAY TOWN OF BEDFORD, VA</b>		
<b>MAINTENANCE OF TRAFFIC NOTES &amp; TRAFFIC MANAGEMENT PLAN</b>		
DESIGNED BY: RES	DRAWN BY: RES	CHECKED BY: APS
SCALE: NOT TO SCALE	PLAN NO.:	
DATE: ????????????	SHEET: ? OF ?	
FOR TABLE OF REVISIONS SEE SHEET 3		
COMM. NO. 2023030		



CADD REFERENCE NO: 20230303TRAFFIC\_CONTROL

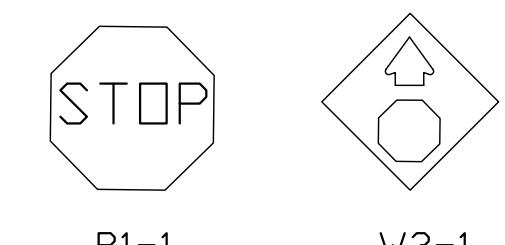


## LEGEND

- 1 Denotes Type A, solid pavement line marking (4" Dbl yellow line)
- 2 Denotes Type B, Class VI, Contrast solid pavement line marking (4" Dbl yellow line)
- 3 Denotes Type B, Class II pavement message marking, 24" X 40' stop bar (white)
- 4 Denotes Type B, Class II pavement message marking, STOP (H = 24") (white)

NOTES: FOR MAINTENANCE OF TRAFFIC NOTES, SEE SHEET ??.

## PERMANENT SIGNS



R1-1                            W3-1  
36"X36"                    36"X36"

Post: Square Tube Sign Post,  
2", 14 Ga. (STP-1)  
2 Posts Req'd., L = 12' each Post

Foundation: Square Tube Post Foundation,  
(Type A) (STP-1)  
2 Foundations Req'd.

NO.	DESCRIPTION	DATE
REVISIONS		
FOR TABLE OF REVISIONS SEE SHEET 3		

VA. STR. NO.: 8000	UPC No. 116980 NBIS NO.: 32036
 <p><b>SCHWARTZ &amp; ASSOCIATES, INC.</b>  <b>CONSULTING ENGINEERS</b>  <b>7331 TIMBERLAKE ROAD</b>  <b>LYNCHBURG, VA.</b></p>	
<p><b>MCGHEE STREET OVER      NORFOLK SOUTHERN RAILWAY      TOWN OF BEDFORD, VA      PERMANENT SIGN &amp; MARKING PLAN</b></p>	
DESIGNED BY: RES	DRAWN BY: RES
SCALE: 1" = 25'	PLAN NO.:
DATE: ????????????	SHEET: ? OF ?