

**ARLINGTON COUNTY, VIRGINIA
OFFICE OF THE PURCHASING AGENT**

INVITATION TO BID NO. 23-DES-ITBPW-503

ADDENDUM NO. 1

Arlington County Invitation to Bid No. 23-DES-ITBPW-503 for General Contractor Services for Spout Run Deep Sanitary Sewer Rehabilitation. is amended as follows:

1. Question Due Date is hereby changed to: **QUESTIONS REGARDING THE ORIGINAL SOLICITATION MUST BE SUBMITTED BY FEBRUARY 8, 2023, AT 5:00 PM EASTERN TIME TO BE CONSIDERED. ALL QUESTIONS RECEIVED BY THE QUESTION DEADLINE WILL BE RESPONDED TO WITHIN VENDOR REGISTRY AND POSTED FOR ALL BIDDERS. THE SYSTEM WILL NOT ACCEPT ANY QUESTIONS AFTER THIS DATE AND TIME.**
2. Attachment F, Prevailing Wage Determination is hereby replaced in its entirety with the attached **Revised Attachment F, Prevailing Wage Determination.**
3. **ADD:** Attachment I, Historic Design Plans is hereby added to ITB No. 23-DES-ITBPW-503.

The balance of the solicitation remains unchanged.

Arlington County, Virginia

Tomeka Price, VCO, VCA
Procurement Officer
tprice@arlingtonva.us

RETURN THIS PAGE, FULLY COMPLETED AND SIGNED, WITH YOUR BID:

BIDDER ACKNOWLEDGES RECEIPT OF ADDENDUM NUMBER 1.

FIRM NAME: _____

AUTHORIZED SIGNATURE: _____ **DATE:** _____



COMMONWEALTH of VIRGINIA
DEPARTMENT OF LABOR AND INDUSTRY

Gary G. Pan
COMMISSIONER

Main Street Centre
600 East Main Street, Suite 207
Richmond, Virginia 23219
PHONE (804) 371-2327
FAX (804) 371-6524

Virginia Department of Labor and Industry Wage Determination Decision

Project Name Spout Run Deep Sanitary Sewer Rehabilitation
County Project Code 23-DES-ITBPW-425
DOLI Project Number ARLC-22-0005 UPDATE
County or Independent City Arlington County
Publication Date 02/07/2023
Construction Type Heavy

Wage Determinations	Wage	Fringe
Carpenter	\$31.40	\$13.86
Cement Mason/Concrete Finisher	\$28.82	\$11.68
Diver	\$23.73	\$4.21
Diver Tender	\$22.53	\$3.98
Electrician*	\$33.95	\$20.01
Glazier (Contracts \$2 Million and Under)	\$29.92	\$13.35
Glazier (Contracts over \$2 Million)	\$34.16	\$13.35
Ironworker, Reinforcing	\$22.45	\$11.85
Ironworker, Structural	\$20.55	\$8.25
Laborer: Common or General	\$12.00	\$1.32
Laborer: Flagger	\$12.00	\$0.20
Laborer: Landscape	\$12.00	
Laborer: Pipelayer	\$27.77	\$8.63

Wage Determinations	Wage	Fringe
Mason - Stone	\$40.81	\$19.43
Power Equipment Operator: 35 ton Cranes and Above**	\$39.67	\$10.55
Power Equipment Operator: Backhoe	\$18.47	\$0.75
Power Equipment Operator: Bobcat/Skid Loader	\$12.00	
Power Equipment Operator: Bulldozer	\$17.54	
Power Equipment Operator: Cranes Below 35 tons***	\$37.26	\$10.55
Power Equipment Operator: Excavator	\$17.79	
Power Equipment Operator: Loader	\$18.99	\$0.75
Power Equipment Operator: Mechanic****	\$39.67	\$10.55
Power Equipment Operator: Tower and Climbing Cranes*****	\$41.73	\$10.55
Power Equipment Operator: Tower Cranes and Cranes 100 Tons and Over*****	\$41.73	\$10.55
Power Equipment Operator: Trackhoe	\$12.75	\$1.24
Power Equipment Operator: Tugboat	\$19.00	
Truck Driver, Includes All Dump Trucks	\$12.14	\$0.75

Additional Notes

* Electrician * PAID HOLIDAYS: New Year's Day, Inaugural Day, Decoration Day, Independence Day, Labor Day, Martin Luther King's Birthday, Veterans' Day, Thanksgiving Day, Friday after Thanksgiving and Christmas Day. *

** Power Equipment Operator: 35 ton Cranes and Above ** PAID HOLIDAYS: New Year's Day, Inaugural Day, Decoration Day, Independence Day, Labor Day, Martin Luther King's Birthday, Veterans' Day, Thanksgiving Day, Friday after Thanksgiving and Christmas Day. **

*** Power Equipment Operator: Cranes Below 35 tons *** PAID HOLIDAYS: New Year's Day, Inaugural Day, Decoration Day, Independence Day, Labor Day, Martin Luther King's Birthday, Veterans' Day, Thanksgiving Day, Friday after Thanksgiving and Christmas Day. ***

**** Power Equipment Operator: Mechanic **** PAID HOLIDAYS: New Year's Day, Inaugural Day, Decoration Day, Independence Day, Labor Day, Martin Luther King's Birthday, Veterans' Day, Thanksgiving Day, Friday after Thanksgiving and Christmas Day. ****

***** Power Equipment Operator: Tower and Climbing Cranes ***** PAID HOLIDAYS: New Year's Day, Inaugural Day, Decoration Day, Independence Day, Labor Day, Martin Luther King's Birthday, Veterans' Day, Thanksgiving Day, Friday after Thanksgiving and Christmas Day. *****

***** Power Equipment Operator: Tower Cranes and Cranes 100 Tons and Over ***** PAID HOLIDAYS: New Year's Day, Inaugural Day, Decoration Day, Independence Day, Labor Day, Martin Luther King's Birthday, Veterans' Day, Thanksgiving Day, Friday after Thanksgiving and Christmas Day. *****

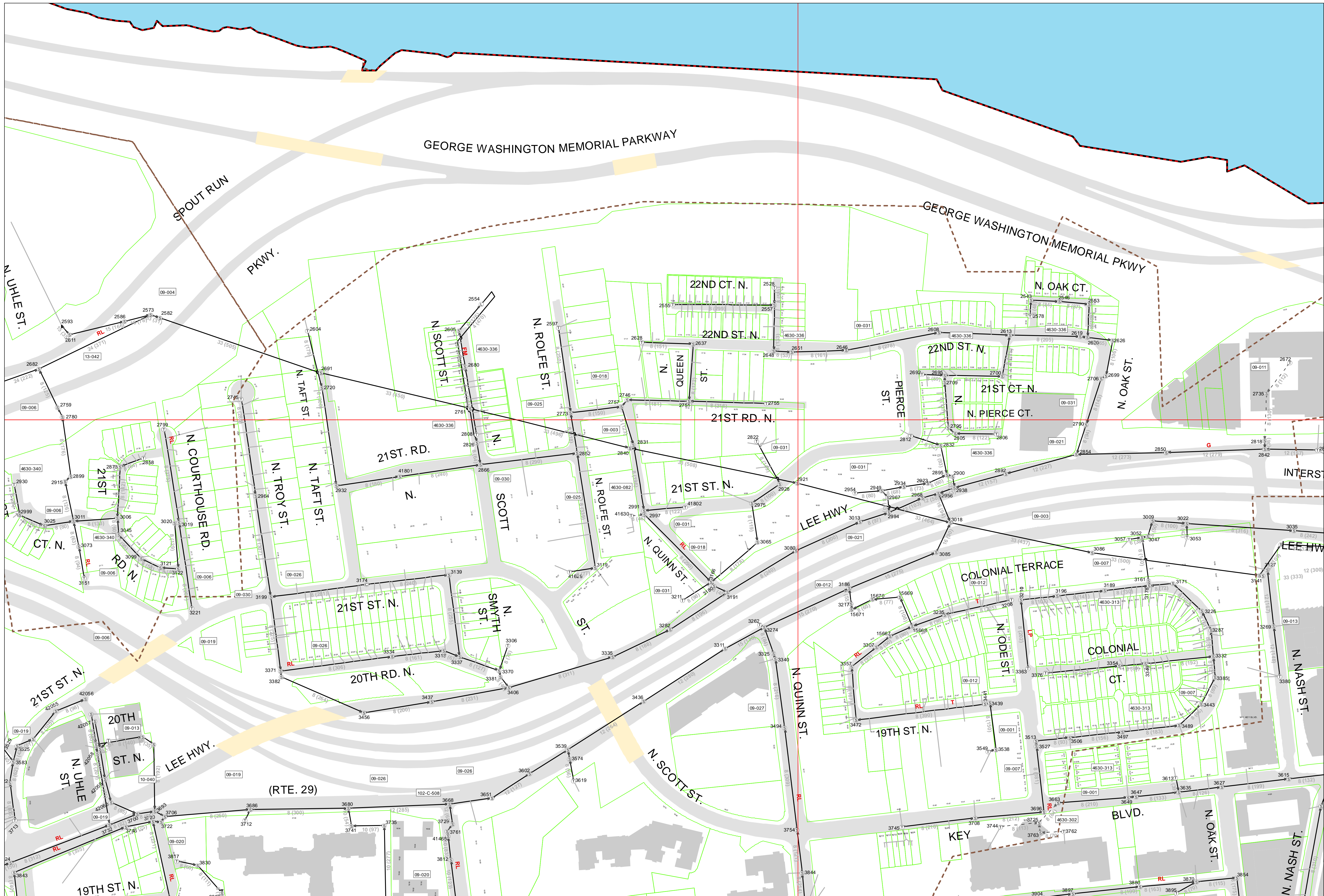
All wage rates to be used on a contract will be set at the time the contract is awarded. While DOLI maintains a list of wage determinations online for reference purposes, only the wage determinations made in an official Wage Determination Decision, sent by DOLI to the contracting agency, can be used to ascertain the exact rates to be paid for a specific contract.

All rates are determined by DOLI and any appeals of specific classifications may be made through the Wage Determination Appeal form available at <http://www.doli.virginia.gov/wp-content/uploads/2021/04/Appeal-for-Wage-Determination-Clarification.pdf>

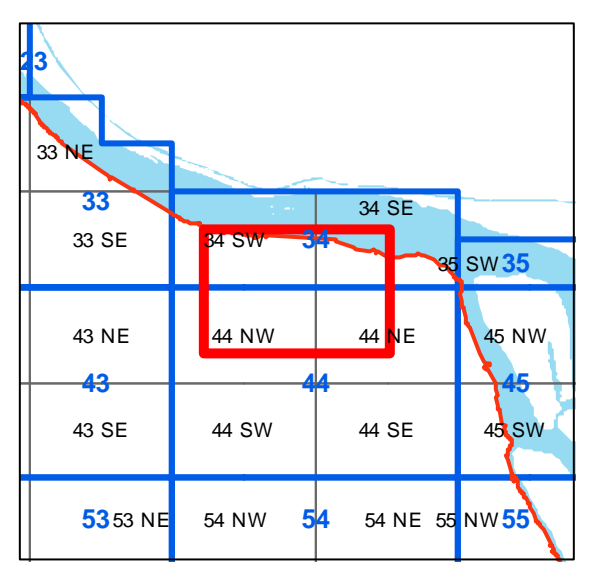
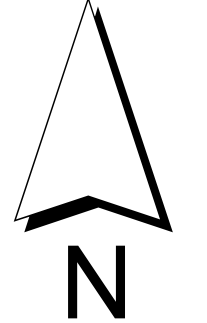
Any additional classifications may be requested through the Additional Wage Classification form available at <http://www.doli.virginia.gov/wp-content/uploads/2021/04/Request-for-Additional-Wage-Classification.pdf>
Understand your duties as a contractor under Virginia law by referencing our Contractor Responsibilities information sheet available at <http://www.doli.virginia.gov/wp-content/uploads/2021/04/PREVAILING-WAGE-CONTRACTOR-RESPONSIBILITIES.pdf>

Your employees have specific rights, which can be found on our List of Employee Rights information sheet available at <http://www.doli.virginia.gov/wp-content/uploads/2021/04/PREVAILING-WAGE-EMPLOYEE-RIGHTS.pdf>
Any further questions should be directed to PrevailingWage@doli.virginia.gov

ATTACHMENT I – Historic Design Plans



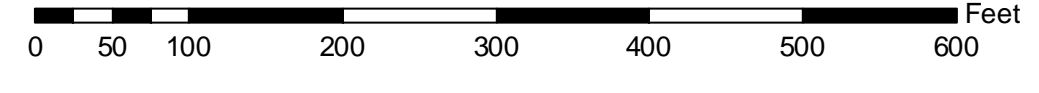
- Legend**
- Sewer Junctions**
- STANDARD MANHOLE
 - CROWN MANHOLE
 - TERMINAL MANHOLE
 - STUB LINE DEAD END NO MANHOLE
 - GREASE TRAP
 - REDUCER
 - LAMP HOLE
 - TEE JUNCTION NO MANHOLE
 - METERING STATION
 - CHAMBER (JUNCTION BOX) MANHOLE
 - LIFT STATION
 - NO MANHOLE DOES NOT EXIST
 - AIR VALVE/FLUSHING STATION
 - FORCE MAIN SERVICE CONNECTION
 - SEWER VALVE
 - NO TYPE IN CASSWORKS
- Privately Maintained**
- PRIVATE MANHOLE
 - PRIVATE TERMINAL MANHOLE
 - CLEAN OUT PRIVATE
 - PRIVATE STUB LINE NO MANHOLE
- Other Manholes**
- OTHER JURISDICTION MANHOLE
 - TERM MANHOLE OTHER JURISDICTION
- Sewer Mains**
- STANDARD COUNTY MAINTAINED
 - PRIVATELY MAINTAINED
 - MAINTAINED BY OTHER GOVT
 - DIRECTION OF FLOW
- Other Map Contents**
- LATERALS
 - BRIDGE POLYGONS
 - PROPERTY LINES
 - SEWER DRAWING ANNOTATION
 - SEVERSHED BOUNDARY
 - SEWER DISTRICT
- 10254 SEWER NODE ID
10359 SEWER LEGACY ID (CW)
8 (388) Main Diameter (inches) (Main Length) (feet)
LP LOW PRESSURE MAIN
RL RELINED SEWER MAIN
G GREASE SPOTS
T TROUBLE SPOTS
FM FORCE MAIN
RT ROOT CONTROL



Pursuant to Section 54.1-402 of the Code of Virginia, any determination of topography or contours, or any depiction of physical improvements, property lines or boundaries is for general information only and shall not be used for the design, modification, or construction of improvements to real property or for flood plain determination.

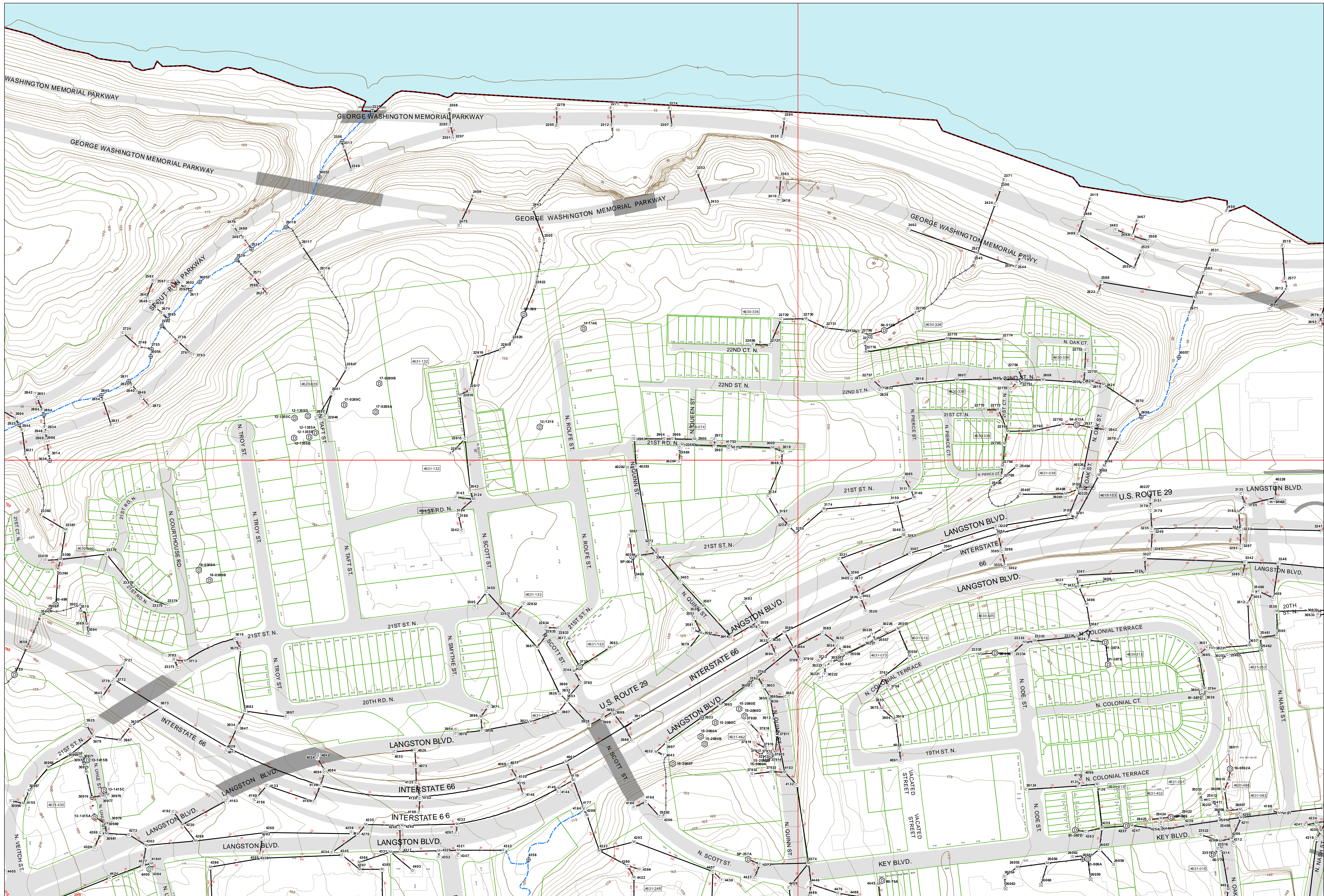
Locations of all existing sewer mains, and appurtenances as shown are approximate. The Department of Environmental Services does not guarantee that the information shown is complete or accurate. Questions About these maps should be directed to the Water, Sewer Engineering Section (703-228-3677).

**ARLINGTON COUNTY, VIRGINIA
SANITARY SEWER SYSTEM**



NOTE: Length of Sewer Main sections provided by Water-Sewer Streets via the CASSWORKS Database. Planimetric features updated from 2011 Orthophotography. Data is intended for reference purposes ONLY.
NOT A legal document.

SEWER MAP



Legend

Storm Water Junctions

- Best Management Practices / Detention Facility
- Catch Basin
- End Wall
- Grate Inlet
- Junction
- Manhole
- Yard Inlet
- Discharge Point
- Under Drain
- Other/Unidentified

Storm Water Mains

- All Pipe
- Arch Culvert
- Box Culvert
- Open Channel/Ditch
- Open Drainage
- Stream Channel
- Other/Unidentified
- Unknown
- Under Drain
- Direction of Flow
- 15 Diameter of Pipe

Other Map Elements

- Properties
- 5 Ft Contours
- County Line
- 4630-012 As-Built Drawing Number
- 463 Structure ID Number

Ownership Legend:

- Arlington County School Board (SCH)
- Arlington County Parks and Rec (PK)
- VA Department of Transportation (VA)
- Federal Government (US)
- Other/Unidentified (OT)
- Private Pipe (PR)

Inset Map:

A small inset map shows the location of the main map area within a grid of sections labeled 33 NE, 33 SE, 43 NE, 43 SE, 53 NE, 53 SE, 34 SW, 44 SW, 54 SW, 34 NW, 44 NW, 54 NW, 35 SW, 45 SW, 55 SW.

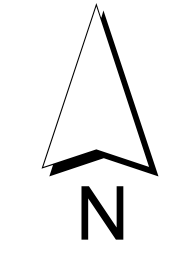
NOTE: All attributes on this map are provided by Water-Sewer Streets via the CASSWORKS Database. Planimetric features updated from 2011 Orthophotography. Data is intended for reference purposes ONLY. NOT a legal document.

Print Date: 2/2/2023

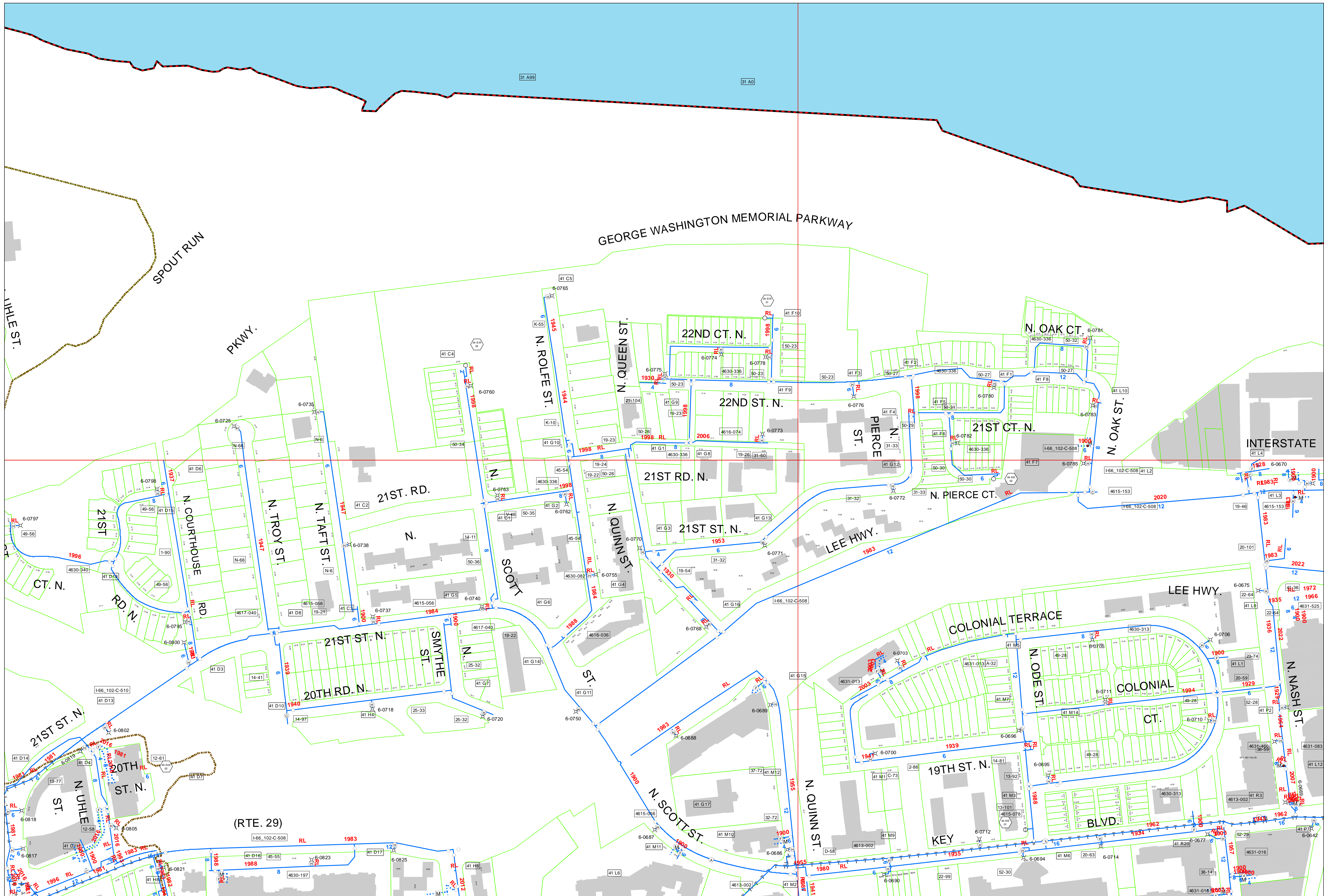
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Locations of all existing Storm mains, and appurtenances as shown are approximate. The Department of Environmental Services does not guarantee that the information shown is complete or accurate. Questions About these maps should be directed to the Water Sewer Engineering Section (703-228-3677).

**ARLINGTON COUNTY, VIRGINIA
STORM WATER SYSTEM**



**Storm Water
MAP**



Legend

Water Elements

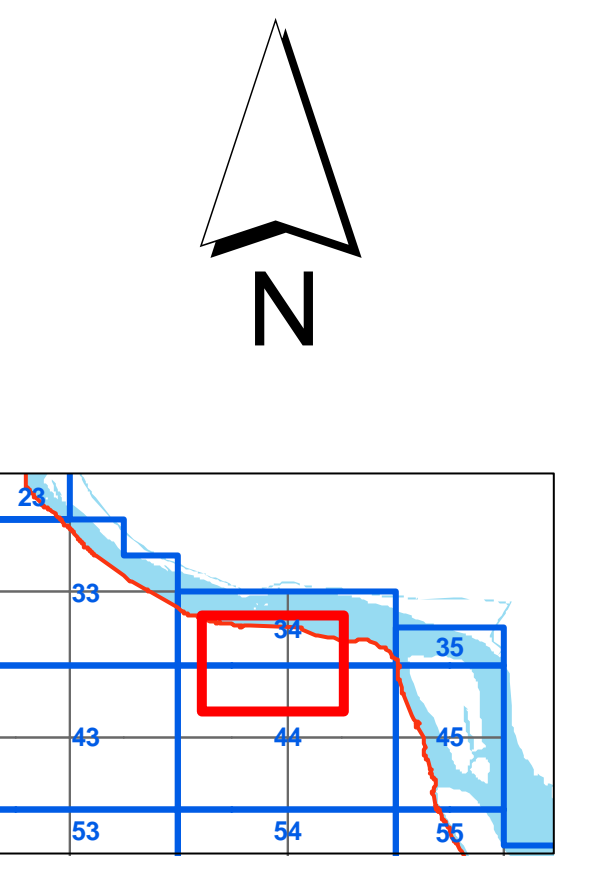
- No Data
- ⊙ Air Release Valve
- Blowoff Valve
- ⊙ Butterfly Valve
- ⊙ Bypass Valve
- ⊙ Division Valve
- ⊙ Fire Hydrant
- ⊙ Fireline Valve
- ⊙ Hydrant Valve
- ⊙ Pumpout Manhole
- ⊙ Pressure Regulating Valve
- ▲ Reducer
- Valve
- ⊙ Vault
- ⊙ Water Meter
- ⊙ Valve Kept Closed
- ★ Fire Hydrants (Private/Other Jurisd.)

— Water Mains (Arlington)
 — Transmission Mains
 — Water Mains (Private/Other Jurisdiction)
 - - - Pressure Zone Boundary
 - - - County Line
 □ Properties

Water Main Labels

12 Main Diameter RL Main Relined 2007 Main Installed

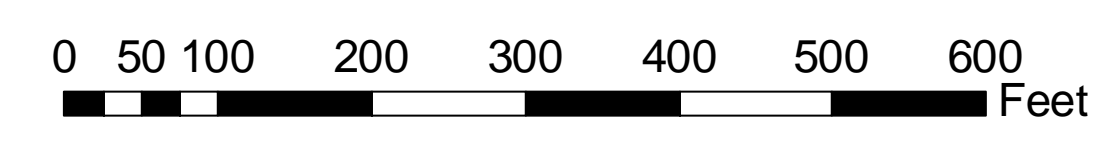
- ⊙ Blowoff Valve
- Field Books
- ⊙ Intersection Drawings
- ⊙ Water Drawing Numbers



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Locations of all existing water mains, and appurtenances as shown are approximate. The Department of Environmental Services does not guarantee that the information shown is complete or accurate. Questions about these maps should be directed to the Water, Sewer Engineering Section (703-228-3677).

ARLINGTON COUNTY, VIRGINIA WATER DISTRIBUTION SYSTEM



Water Map

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41	MOT PHASE 6
42	MOT PHASE 7
43	MOT PHASE 8

DATE: MAY, 2014

DESIGNED BY: PRABIN BANEPALI (703-228-7586)
SURVEYED BY: ARLINGTON COUNTY GOV., DES

DATE: APRIL, 2013

PROJECT MANAGER: VALERIE MOSLEY (703-228-4938)
SURVEYED BY: ARLINGTON COUNTY GOV., DES



COMMONWEALTH OF VIRGINIA



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering and Capital Projects Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813, Arlington, VA 22201
Phone: 703.228.3629 Fax: 703.228.3606 www.arlingtonva.us
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ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES

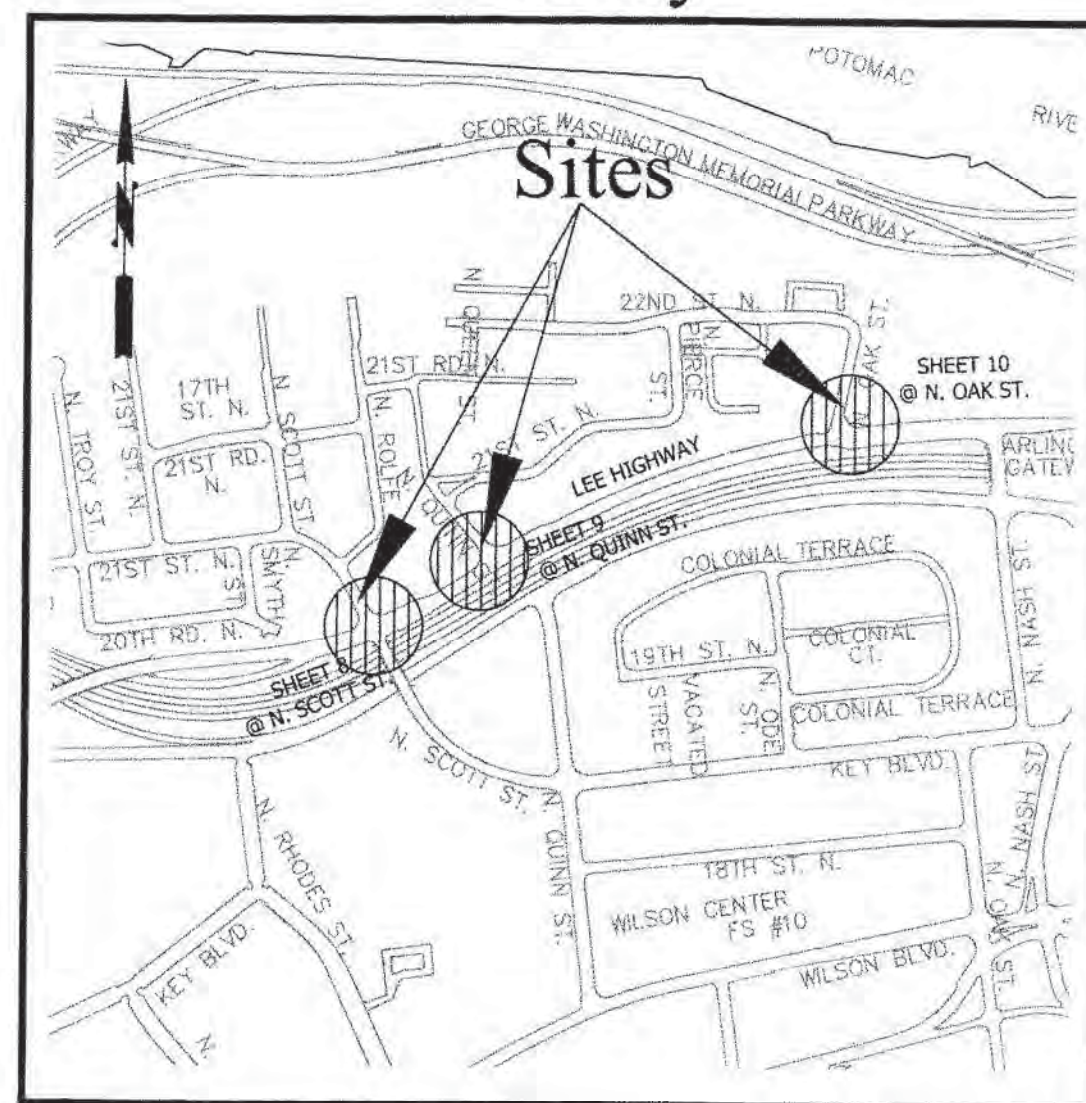
Construction Drawings For: Custis Trail-Safety Improvements

From N.Oak Street To N. Scott Street

Project Number: 313.43520.B06K.0319.0000

UPC NO: 100634

Location Map Scale: 1"=600' Vicinity



FHWA 534 DATA 4E121

STATE	FEDERAL AID		STATE		SHEET NO.
	PROJECT	ROUTE	PROJECT		
VA	STP-5A01() HSIP-5A01() (SEE TABULATIONS BELOW FOR SECTION NUMBERS)	29	0029-000-553		1

	NEIGHBORHOOD PRINCIPAL - 25 MPH			URBAN PRINCIPAL ARTERIALS - 40 MPH	
	North Oak Street	N. Quinn Street	N. Scott Street	Lee Highway @ North Oak Street	Lee Highway @ North Scott St.
ADT (2014)	1,600	N/A	3,700	11,300	10,100
ADT (2015)	1,600	N/A	3,700	11,300	10,100
DHV	N/A	N/A	N/A	N/A	N/A
D (%)	N/A	N/A	N/A	N/A	N/A
T (%)	N/A	N/A	N/A	N/A	N/A
V (MPH)	*	*	*	*	*

* See Plan and Profile Sheets for horizontal and vertical design speed data



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

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Seal



Approvals Date

DESIGN TEAM SUPERVISOR 05/24/16

ENGINEERING BUREAU CHIEF 05/24/16

WATER, SEWER STREETS BUREAU CHIEF 5/29/16

TRANSPORTATION DIRECTOR 5/26/16

Revisions Date

Rev. Type Project On State 05/06/16

Project Table

TIER 1 PROJECT	
LOCALLY ADMINISTERED PROJECTS	
ARLINGTON COUNTY NAME OF LOCALITY	
NAME OF RESPONSIBLE LOCAL GOVERNMENT OFFICIAL (TYPE)	
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
TITLE OF POSITION	
NAME OF RESPONSIBLE LOCAL GOVERNMENT OFFICIAL (TYPE)	
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	

ALL CONSTRUCTION TO BE PERFORMED WITHIN EXISTING RIGHT OF WAY.

"As-Built" Drawings Prepared by:
Kendall Consulting, Inc.
Land Surveying & Land Planning
P. O. Box 1569 - Fairfax, Virginia 22038
Ph: (703) 591-1157 - Fax: (631) 876-6507 - twk.kci@verizon.net

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

- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S:
- ROAD AND BRIDGE SPECIFICATIONS, DATED 2007.
 - ROAD AND BRIDGE STANDARDS, DATED 2008.
 - VIRGINIA WORK AREA PROTECTION MANUAL, DATED 2011, AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.
 - MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED 2009.
 - VIRGINIA SUPPLEMENT TO THE 2009 MUTCD, DATED 2011.

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

MAINTENANCE RESPONSIBILITY WITHIN VDOT RIGHT OF WAY
ALL SIDEWALK, CURB AND GUTTER AND ADA RAMPS ENHANCEMENTS IN THE RIGHT OF WAY ARE TO BE OWNED AND MAINTAINED BY VDOT. BIKE TRAIL AND LANDSCAPED AREAS WILL BE MAINTAINED BY ARLINGTON COUNTY. PROPOSED STORM STRUCTURES AND PIPES WILL BE MAINTAINED BY ARLINGTON COUNTY. PROPOSED PAVEMENT WIDENING, MILLING AND OVERLAY AND PAVEMENT MARKINGS WILL BE MAINTAINED BY VDOT. NEW TRAFFIC SIGNAL AT LEE HIGHWAY AND N. SCOTT STREET INTERSECTION WILL BE MAINTAINED AND OPERATED BY ARLINGTON COUNTY.

POPULATION 207,627 (2010 CENSUS)

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		
0029-000-553	P101	STP-5A01(204)	PENG	100634	1733.34	0.328	1733.34	0.328	Preliminary Engineering	Custis Trail- Safety Improvements
	M501	HSIP-5A01(681)	SFTY	100634	1733.34	0.328	1733.34	0.328	Safety Related Work	

NOTE: PROJECT LENGTH BASED ON CONSTRUCTION BASELINE

As-Built Sheet 1 of 5

Sheet 1 of 44

General Notes:

GENERAL CONSTRUCTION NOTES

- ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, CONSTRUCTION STANDARDS AND SPECIFICATIONS, AND WHERE APPLICABLE THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, AND ROAD AND BRIDGE STANDARDS. THE LATEST EDITIONS OF EACH RELEVANT MANUAL SHALL BE USED.
- ALL CONSTRUCTION AND WORK ACTIVITIES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND ALL OTHER RELEVANT WORK SAFETY REQUIREMENTS, LATEST EDITIONS.
- THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (i.e. WATER, SEWER, GAS, TELEPHONE, ELECTRIC, AND CABLE TV) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO IDENTIFY AND PROTECT ALL OTHER UTILITY LINES FOUND IN THE WORK SITE AREA BELONGING TO OTHER OWNERS THAT ARE NOT MEMBERS OF "MISS UTILITY". PRIVATE WATER AND/OR SEWER LATERALS WILL NOT BE MARKED BY MISS UTILITY OR THE COUNTY. THE CONTRACTOR WILL BE EXPECTED TO LOCATE AND PROTECT THESE SERVICES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND SHALL RETAIN A PROFESSIONAL LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF VIRGINIA TO PROVIDE ALL NECESSARY CONSTRUCTION LAYOUTS AND ESTABLISH ALL CONTROL LINES, GRADES, AND ELEVATION DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL CUT SHEETS FOR REVIEW, PER THE SPECIFICATIONS. THE COST OF ALL NECESSARY SURVEYING SERVICES SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND, UNLESS OTHERWISE SPECIFIED, THE COST SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
- THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM BEST AVAILABLE RECORDS AND SHALL BE CONSIDERED TO BE APPROXIMATE. WHEN CONSTRUCTION ACTIVITY REACHES IN PROXIMITY TO EXISTING UTILITIES, THE TRENCH(ES) SHALL BE OPENED A SUFFICIENT DISTANCE AHEAD OF THE WORK OR TEST PITS SHALL BE MADE TO VERIFY THE EXACT LOCATION AND INVERTS OF THE UTILITY TO ALLOW FOR POSSIBLE CHANGES IN THE LINE OR GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES AND THE RELATED STRUCTURES. ALL EXISTING UTILITY SYSTEMS SHALL BE PROTECTED TO PREVENT DAMAGE DURING THE CONTRACTOR'S OPERATIONS. ANY SYSTEM DAMAGED SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.

THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLANS.
- EXISTING MANHOLE FRAMES, COVERS, VALVE BOXES, AND OTHER APPURTENANCES SHALL BE ADJUSTED TO THE FINAL GRADE OR REPLACED, AS NECESSARY. UNLESS OTHERWISE SPECIFIED, THE COST FOR THIS SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
- THE CONTRACTOR SHALL PROVIDE ADA COMPLIANT ACCESS THROUGH OR AROUND THE SITE AT ALL TIMES AND SHALL ENSURE THE SAFETY OF ALL THOSE PASSING THROUGH OR ADJACENT TO THE SITE.

STORMWATER AND ENVIRONMENTAL PROTECTION

- THE CONTRACTOR SHALL PROTECT EXISTING DRAINAGE FACILITIES (TO INCLUDE CURB AND GUTTER) AND WATERWAYS FROM ADVERSE IMPACTS PER SECTION 01500 OF THE ARLINGTON COUNTY STANDARDS & SPECIFICATIONS.
- ANY WORK WITHIN A RESOURCE PROTECTION AREA (RPA) SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 61 OF THE COUNTY CODE (THE CHESAPEAKE BAY PRESERVATION ORDINANCE).

TREE PROTECTION

- THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES AT THE SITE ASSOCIATED WITH CONSTRUCTION ACTIVITIES, TO INCLUDE STORAGE OF EQUIPMENT AND OR MATERIALS, ACCESS TO THE WORK, FORMWORK, ETC. TO WITHIN THE DESIGNATED LIMITS OF DISTURBANCE (LOD).
- NO TREES SHALL BE REMOVED OR OTHERWISE AFFECTED UNLESS CLEARLY MARKED ON THE APPROVED PLAN.

- TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF SECTION 02100 - CLEARING AND GRUBBING

TRAFFIC CONTROL

- CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL PREMARK THE LAYOUT OF ANY PERMANENT TRAFFIC CONTROL STRIPING, INDICATING THE PROPOSED LOCATION AND TYPE OF MARKING TO BE INSTALLED. THE PREMARKING MAY CONSIST OF TYPE D TAPE, CHALK, OR LUMBER CRAYONS. THE CONTRACTOR SHALL ALLOW 3 WORKING DAYS FOR THE INSPECTION AND APPROVAL OF THE PREMARKINGS PRIOR TO PLACING THE PERMANENT MARKINGS.
- THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS.
- THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESS THROUGH AND ADJACENT TO THE CONSTRUCTION FOR BUSES AND THEIR PASSENGERS. THE CONTRACTOR SHALL NOT CLOSE, RELOCATE, OR OTHERWISE MODIFY A BUS STOP WITHOUT PRIOR REQUEST OF THE ENGINEER. TYPICALLY ANY RELOCATION OR CLOSURE OF A BUS STOP WILL REQUIRE AT LEAST TWO WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR.
- WHEN CONDITIONS WARRANT DUE TO TRAFFIC VOLUMES, PATTERNS, OR SPECIAL EVENTS, THE COUNTY MAY SUSPEND OR OTHERWISE DIRECT THE CONTRACTOR'S ACTIVITIES TO PROTECT THE PUBLIC AND OR THE COUNTY'S TRANSPORTATION NETWORK.

WATER DISTRIBUTION, STORM, AND SANITARY SEWER SYSTEMS

- UNLESS OTHERWISE DIRECTED, CONTRACTORS ARE EXPRESSLY PROHIBITED FROM OPERATING ANY WATER VALVES OR APPURTENANCES. CONTRACTORS SHALL SUBMIT ALL REQUESTS FOR VALVE OPERATIONS TO THE ENGINEER AT LEAST 3 WORKING DAYS IN ADVANCE OF THE REQUIRED OPERATION.
- IN THE EVENT OF A WATER OR SEWER EMERGENCY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY'S WATER CONTROL CENTER AT 703-228-6555 AND THE ENGINEER.
- STORM OR SANITARY SEWERS AND APPURTENANCES TO BE ABANDONED SHALL BE EXCAVATED AND REMOVED, OR ABANDONED AS DETAILED IN THE COUNTY'S STANDARDS AND SPECIFICATIONS.

WORK WITHIN A VDOT RIGHT OF WAY

- WHEN REQUIRED FOR THE WORK, AN APPROVED VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) PERMIT WILL BE PROVIDED BY THE COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO AND IMPLEMENTING ALL PERMIT REQUIREMENTS.
- THE CONTRACTOR SHALL HAVE AT LEAST ONE EMPLOYEE ON-SITE CERTIFIED BY VDOT IN BASIC WORK ZONE TRAFFIC CONTROL AND WILL BE RESPONSIBLE FOR THE PLACEMENT, MAINTENANCE AND REMOVAL OF WORK ZONE TRAFFIC CONTROL DEVICES WITHIN THE PROJECT LIMITS IN COMPLIANCE WITH THE PERMIT REQUIREMENTS AND CONDITIONS, THE APPROVED PLANS, SPECIFICATIONS, THE VIRGINIA WORK AREA PROTECTION MANUAL AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL HAVE AT LEAST ONE EMPLOYEE ON-SITE WHO HAS COMPLETED VDOT EROSION AND SEDIMENT CONTROL CONTRACTOR CERTIFICATION TRAINING AND WILL BE RESPONSIBLE FOR INSURING COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS DURING ALL LAND DISTURBANCE ACTIVITIES.

DESIGNED BY: PRABIN BANEPALI (703-228-7586)
DATE: MAY, 2014

SUBSURFACE UTILITY BY: ARLINGTON COUNTY GOV., DES.

DATE: APRIL, 2013

PROJECT MANAGER: VALERIE MOSLEY (703-228-4938)
SURVEYED BY: ARLINGTON COUNTY GOV., DES.

Revision 06/09/2011

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DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3605

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Seal



Approvals Date

DEPT. TEAM SUPERVISOR 12/08/15
ENGINEERING BUREAU CHIEF 12/08/15
WATER, SEWER, STREETS BUREAU CHIEF 12/08/15
TRANSPORTATION DIRECTOR 12/11/15

Revisions Date

Revisions	Date

Project Name and Location

Custis Trail-Safety Improvements
General Notes
Safety Improvements Project
From N. Oak Street
To N. Scott Street
313.43520.B06K.0319.0000

Designed: PB
Drawn: PB
Checked: NN
Miss Utility Transmittal #: 5203-D

Filename: Cover Sheet_90.dwg
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Plotted: October 08, 2015
Plotted by: Pbanepali

Scale: As Noted

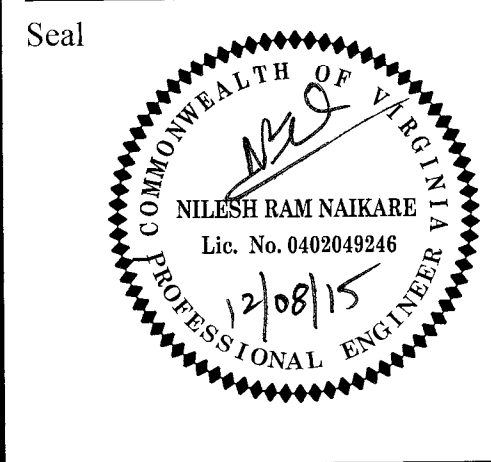
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1A of 44

Imper Area Cal:

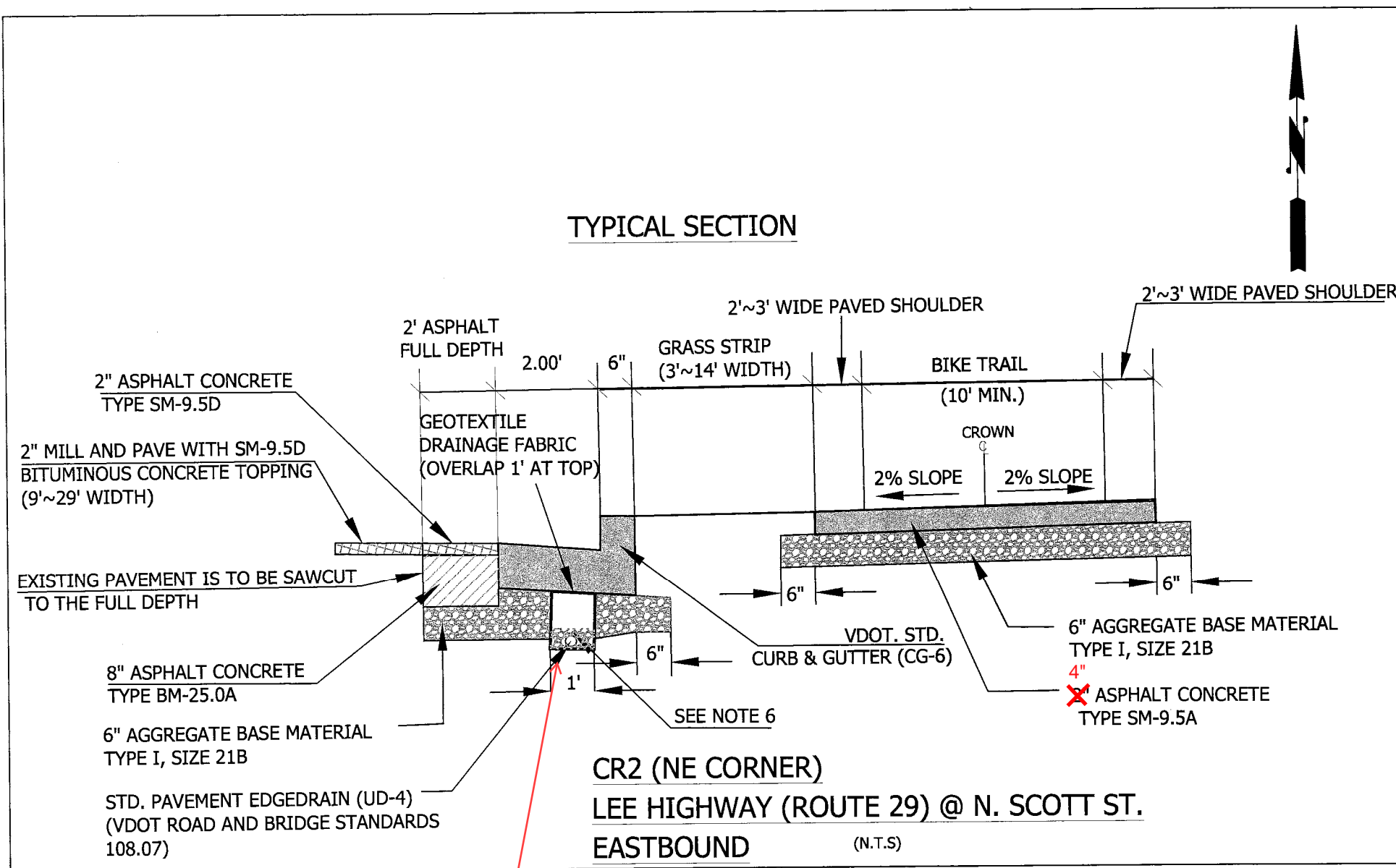
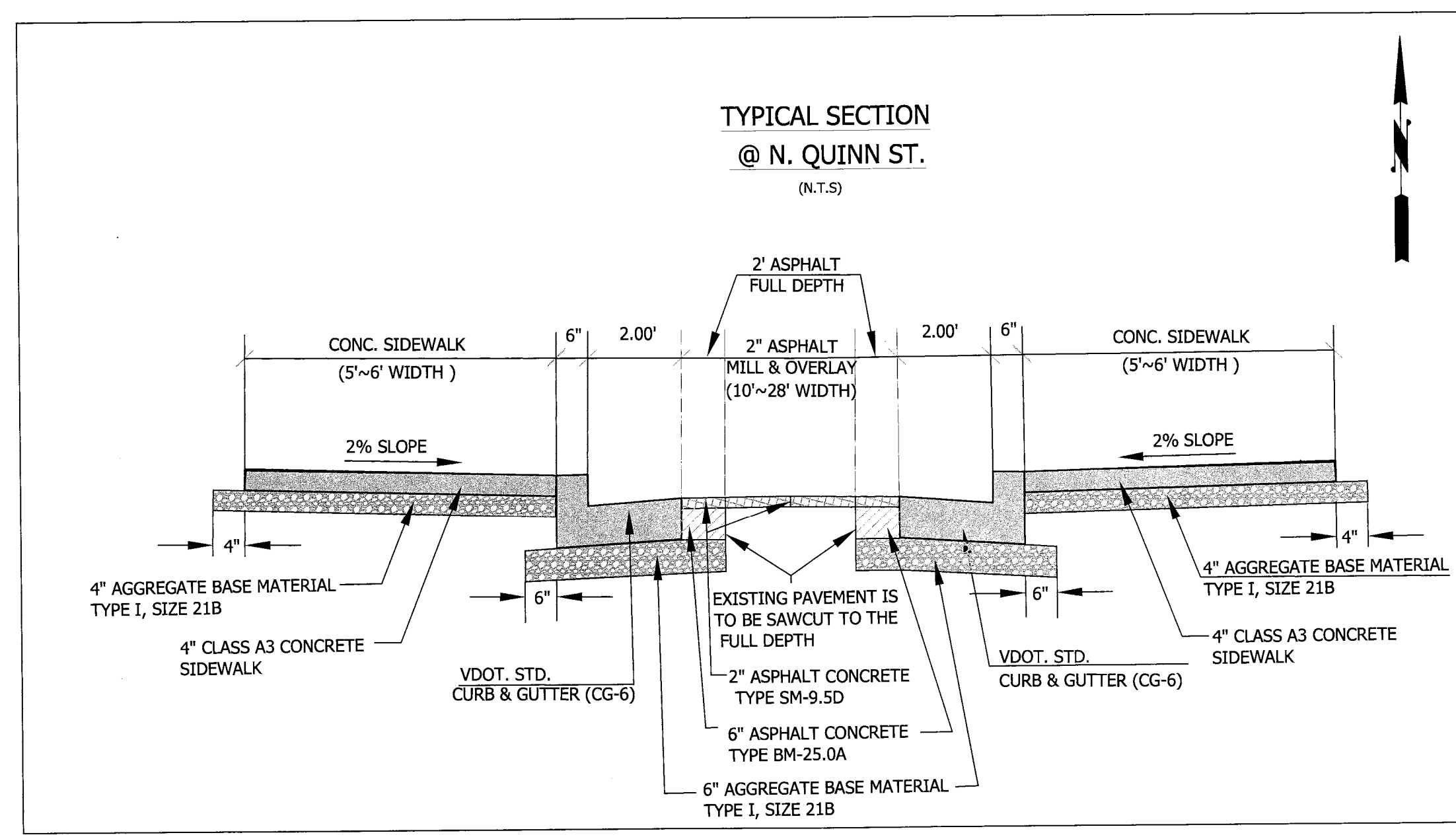
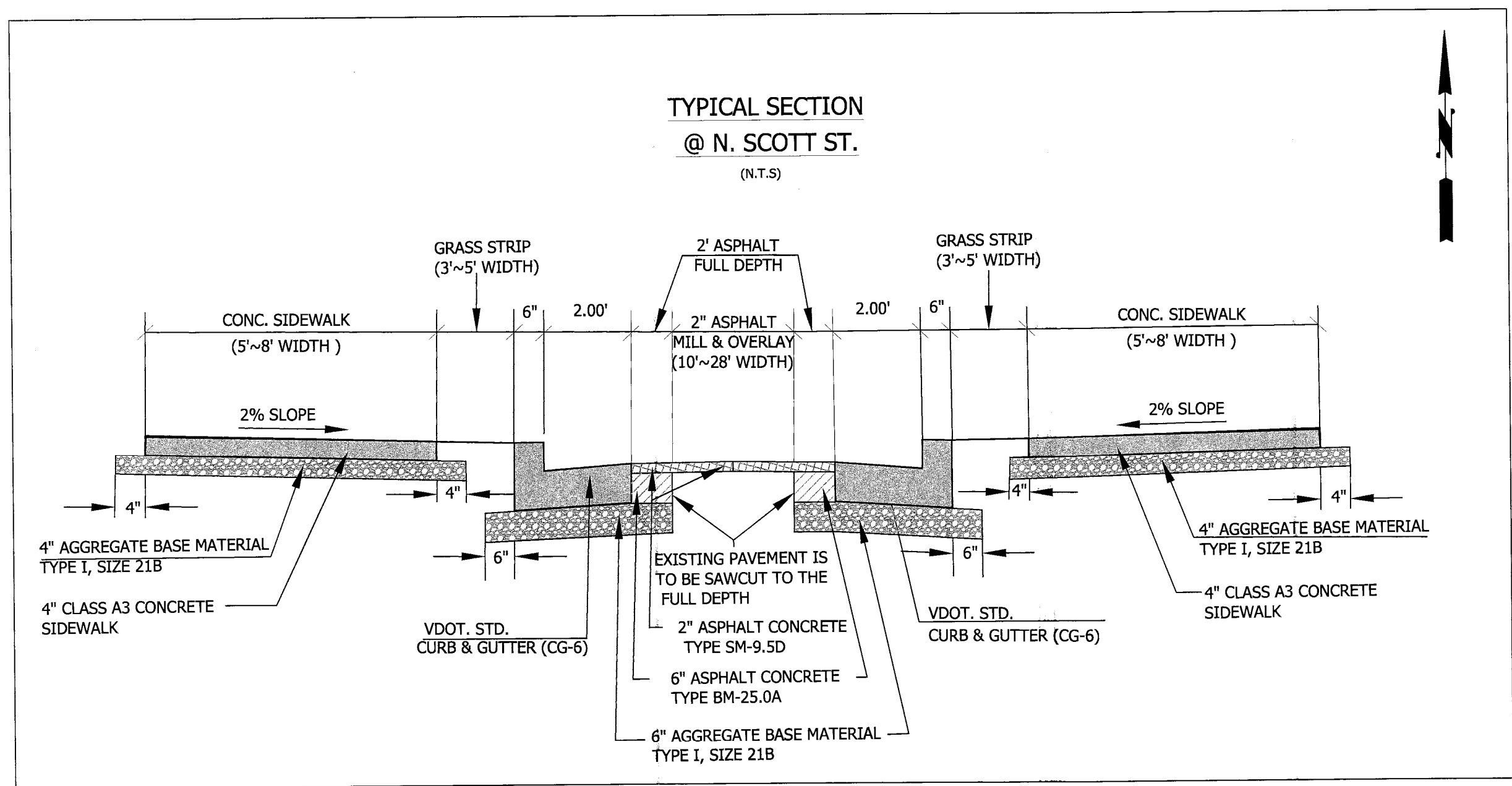
EX. IMPERVIOUS AREA = 18,543.00 SF
PROP. IMPERVIOUS AREA = 16117.00 SF
DECREASED/INCREASED IMPERVIOUS AREA = 2426 SF (Decreased)

STM 15-2069
LDA15198



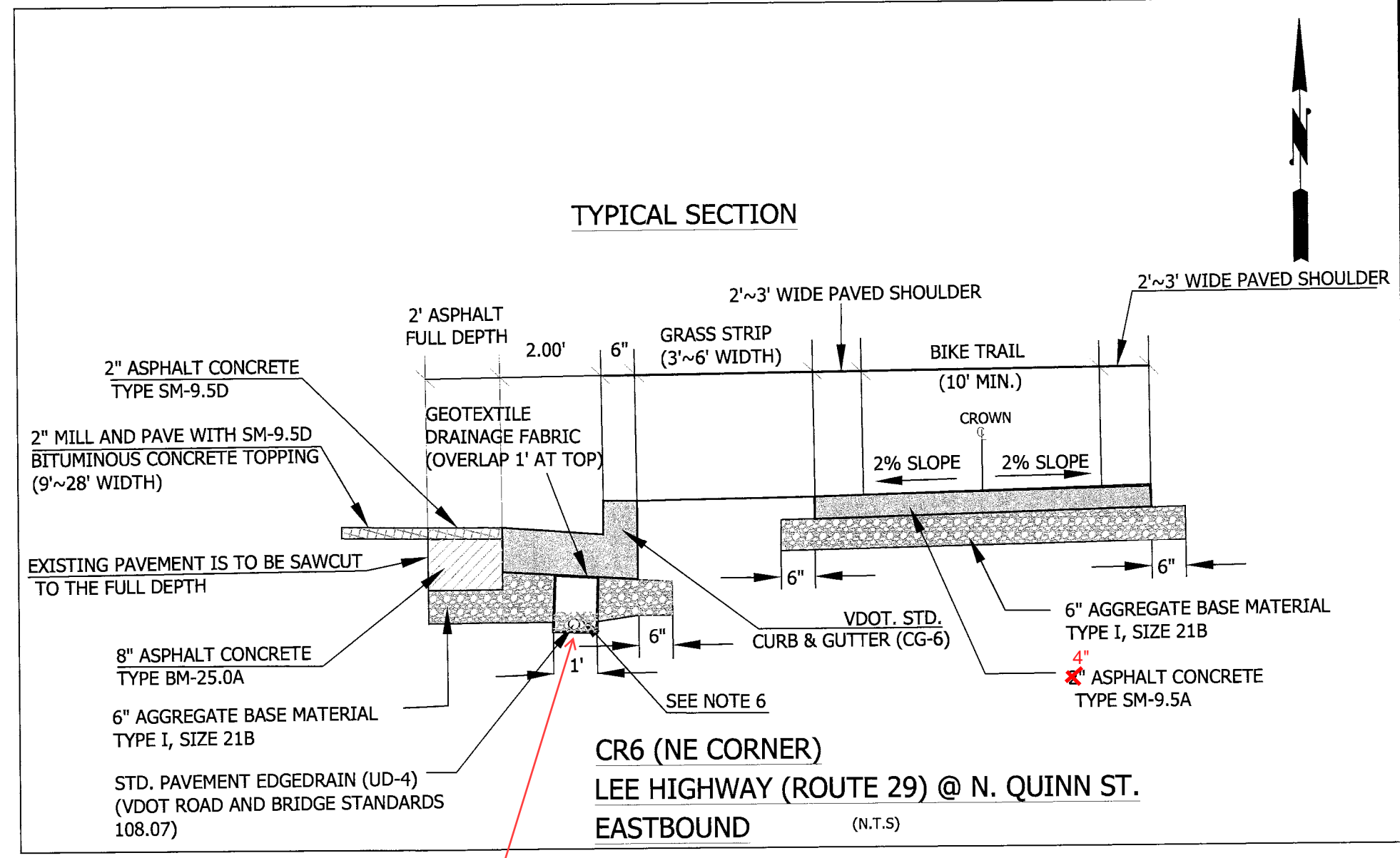
Approvals	Date
<i>[Signature]</i>	12/08/15
DESIGN TEAM SUPERVISOR	
<i>[Signature]</i>	12/08/15
ENGINEERING BUREAU CHIEF	
<i>[Signature]</i>	12/15/15
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	12/15/15
TRANSPORTATION DIRECTOR	

Revisions	Date

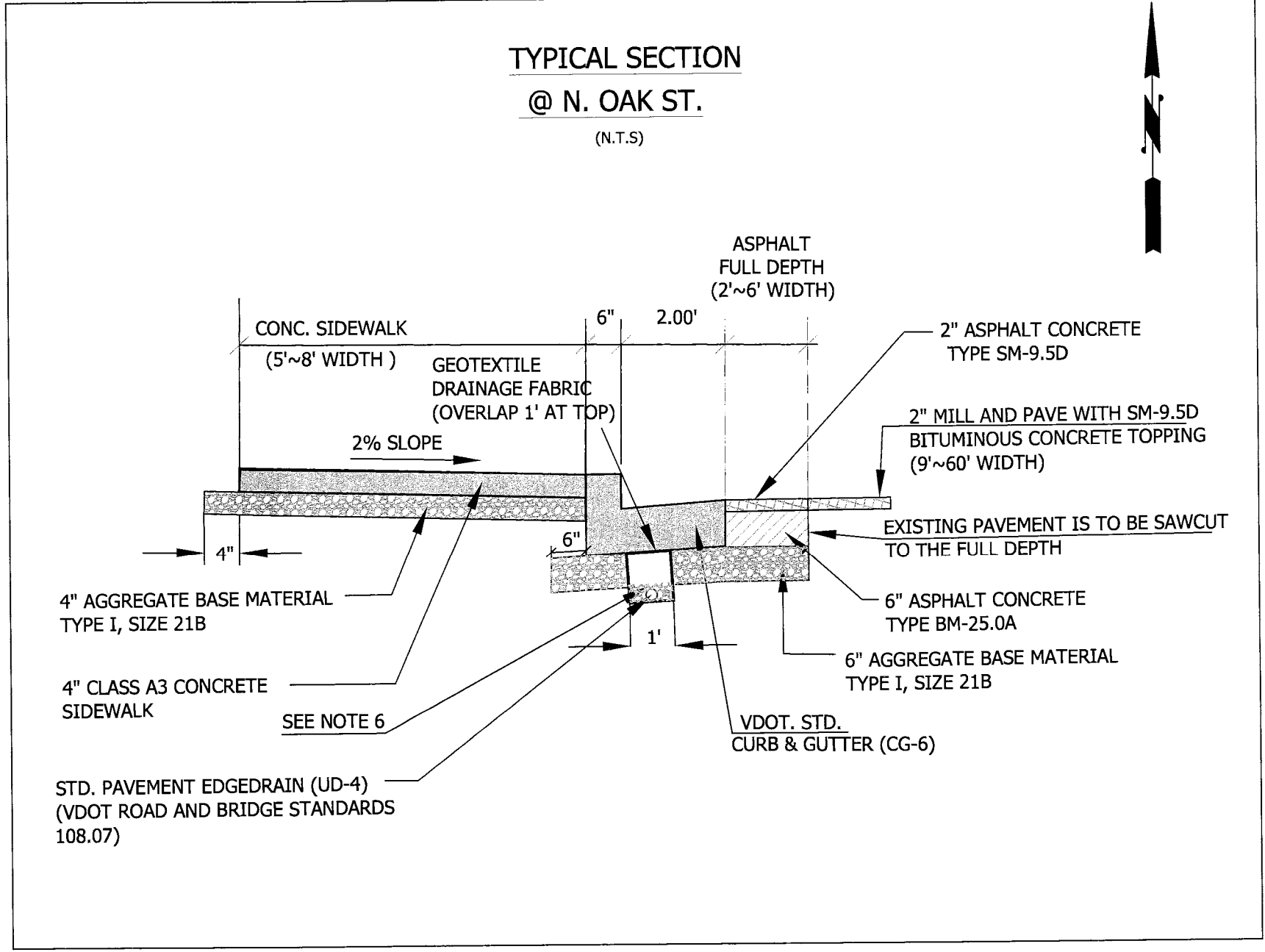
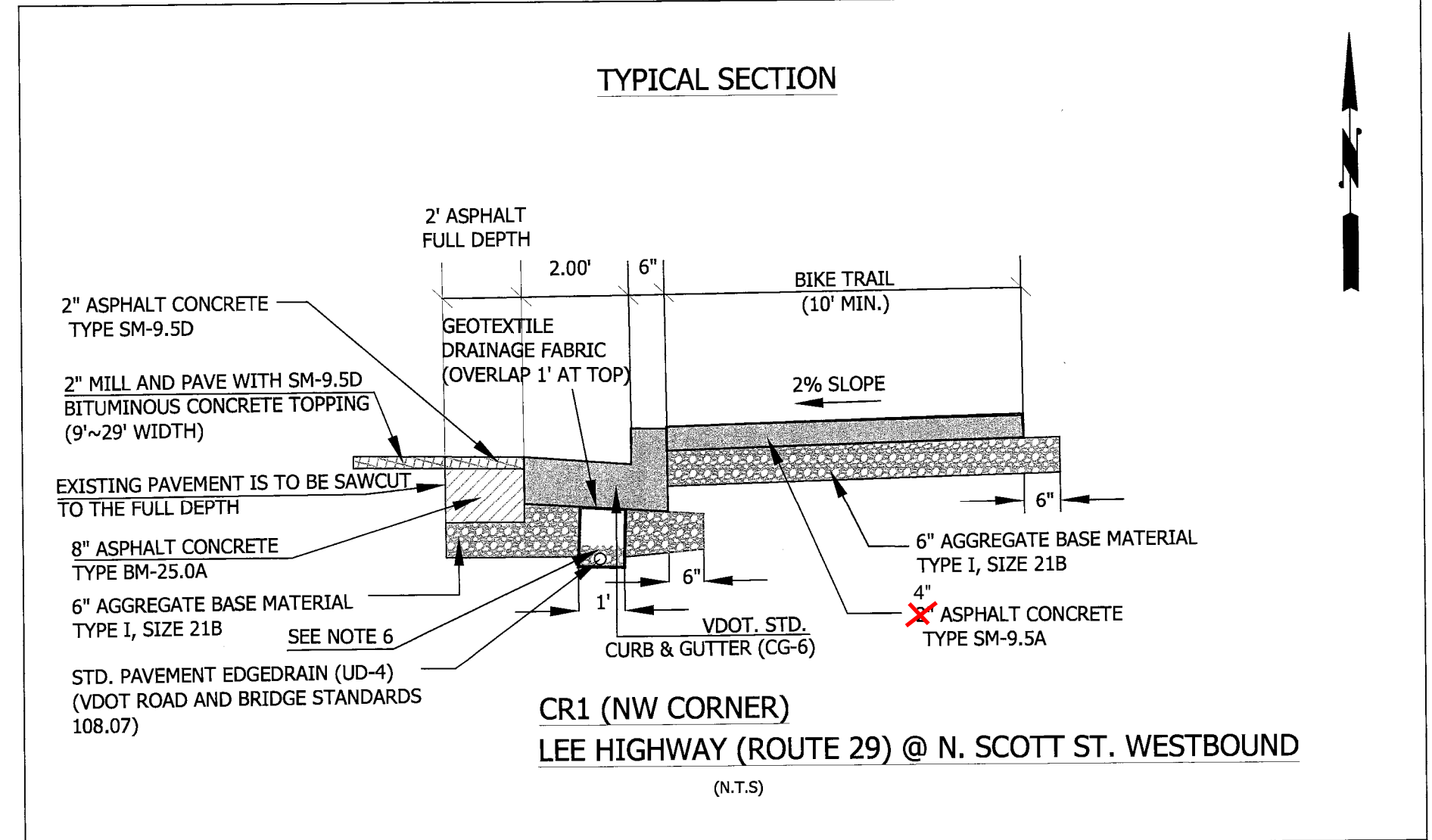
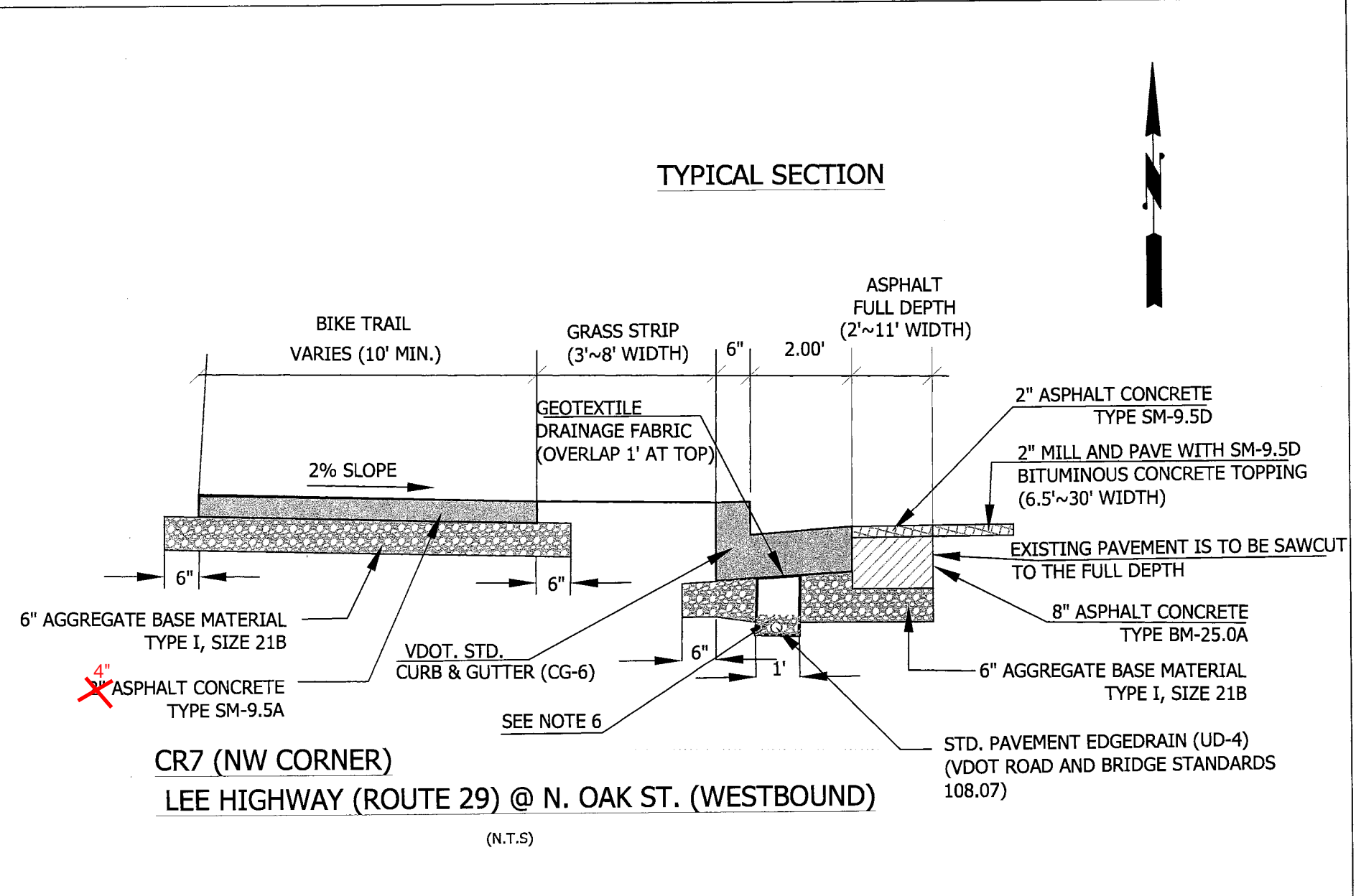


Underdrain Omitted in this section. No place to terminated underdrain downstream.

- NOTES:**
1. ALL PAVEMENTS SHALL BE WIDENED IN ACCORDANCE WITH VDOT STANDARD WP-2. PROPOSED FULL DEPTH PAVEMENT REPLACEMENT SHALL MATCH EXISTING PAVEMENT IN ACCORDANCE WITH VDOT STANDARD WP-2. SEE DETAIL ON SHEET # 2 OF 44.
 2. AGGREGATE SUBBASE THICKNESS BENEATH THE WIDENED PAVEMENT SHALL BE AS INDICATED (6 INCHES) ON THIS SHEET OR EXTEND TO THE BOTTOM OF THE EXISTING AGGREGATE BASE MATERIAL, WHICHEVER IS GREATER.
 3. PROVIDE 1' WIDE GRADING BENCH BEHIND PROPOSED SIDEWALKS WHEN SPACE ALLOWS.
 4. AS INDICATED IN TYPICAL SECTIONS, THE SUBBASE 21-B SHALL BE CONNECTED TO A VDOT STANDARDS UD-4 EDGE DRAIN LOCATED BENEATH THE PROPOSED CURB AND GUTTER, TAKEN TO A POSITIVE OUTFALL AT AN ADJACENT DRAINAGE STRUCTURE WHEN POSSIBLE.
 5. THE ADJACENT TRAVEL LANE SHALL BE MILLED TO A DEPTH OF 2" AND REPLACED WITH 2" ASPHALT CONCRETE TYPE SM-9.5D. SEE PLAN AND PROFILE SHEET #8 THROUGH 10 FOR MILL AND OVERLAY LIMITS.
 6. 4" MINIMUM, PROVIDED ATTAINING MINIMUM 4" OF AGGREGATE ON TOP OF PIPE.



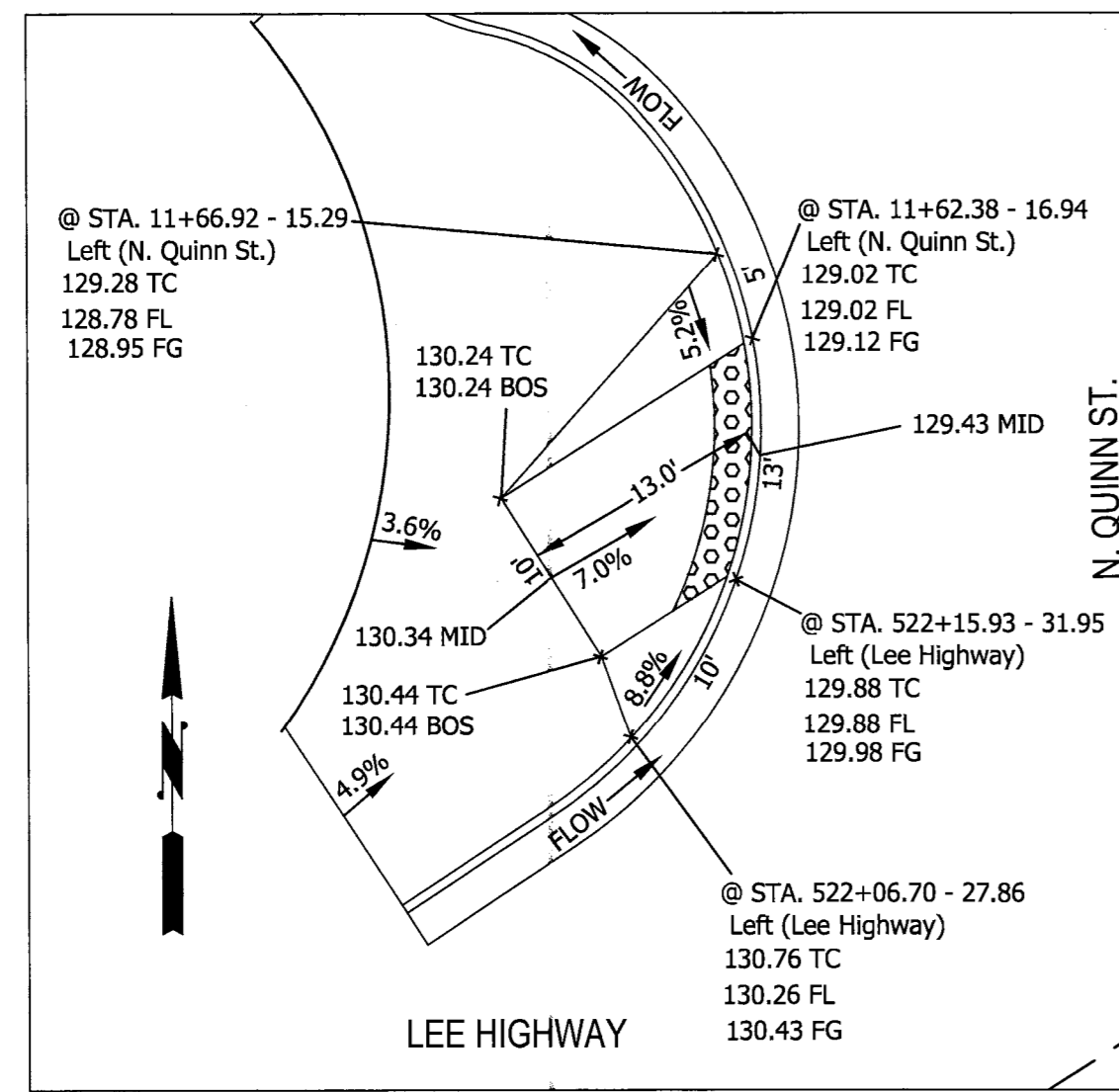
Underdrain Omitted in this section. No place to terminated underdrain downstream.



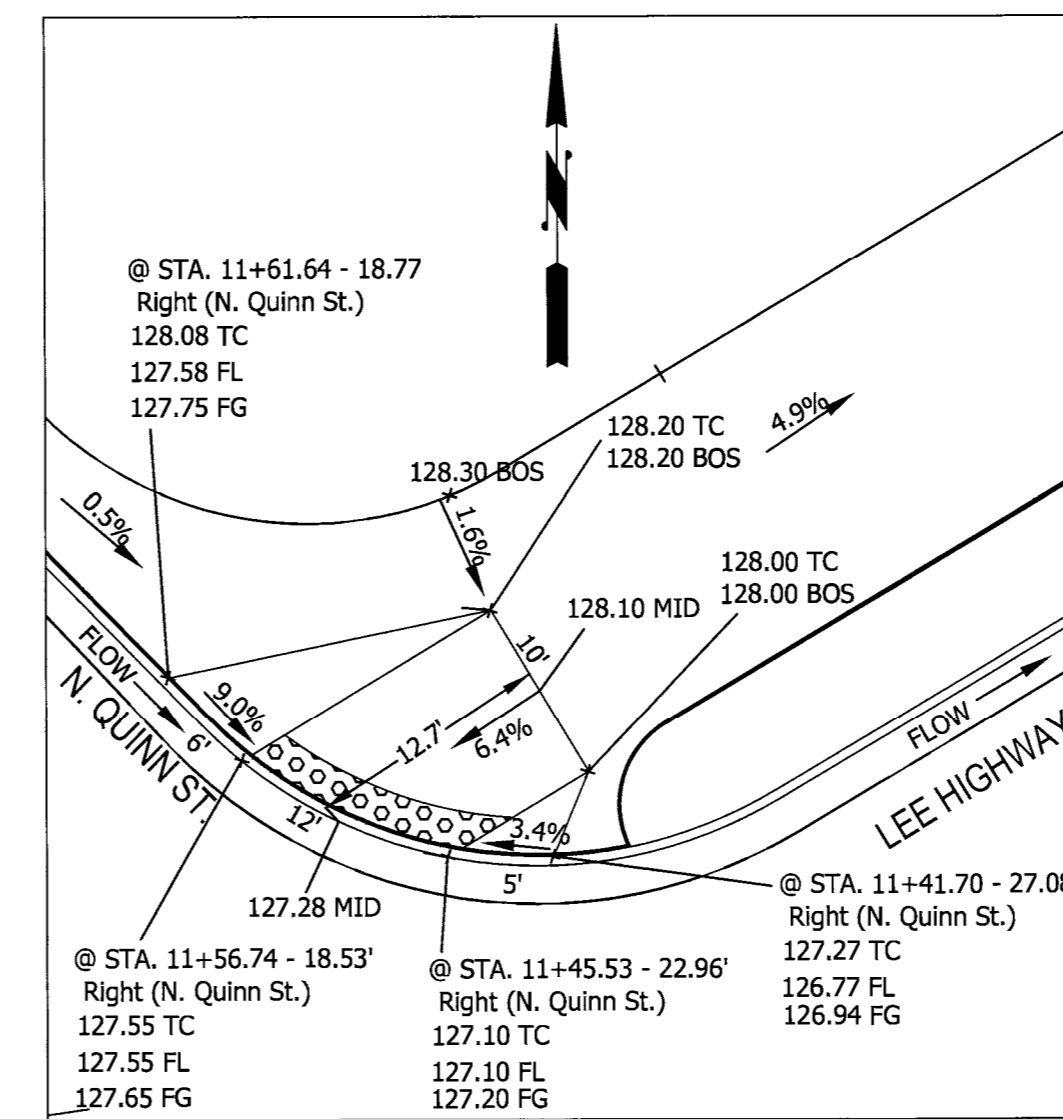
Project Name and Location
Custis Trail-Safety Improvements
Detail Sheet 2 (Typical)
Safety Improvements Project
From N. Oak Street
To N. Scott Street
313.45520.1306K.019.0000

Designed: PB
Drawn: PB
Checked: NN
Miss Utility Transmittal #: 5203-D
Filename: PPLAN_90 August.dwg
Path: Q:\Data\BDR\Design\Drawings
Plotted: November 20, 2015
Plotted by: Pbanepall

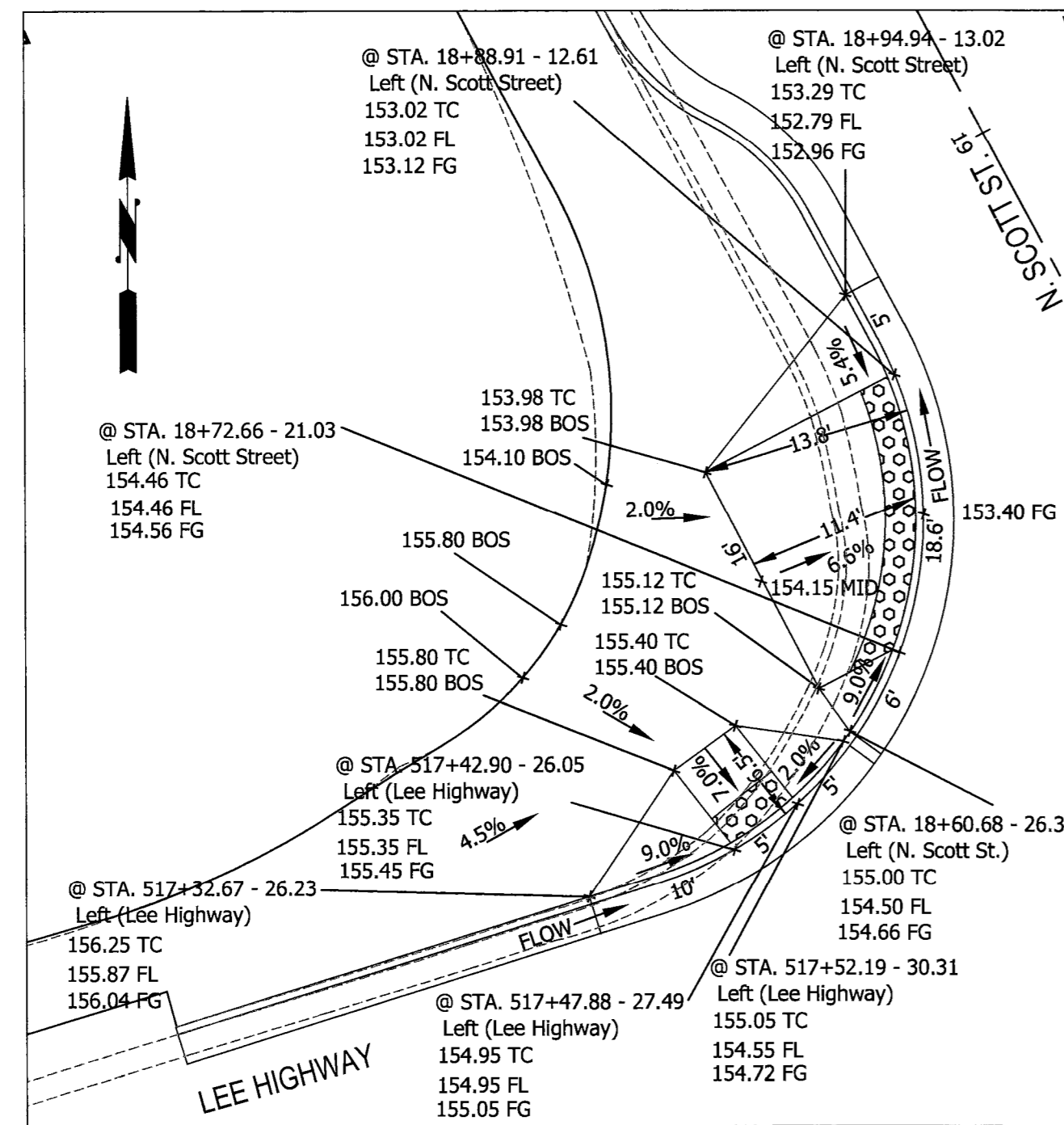
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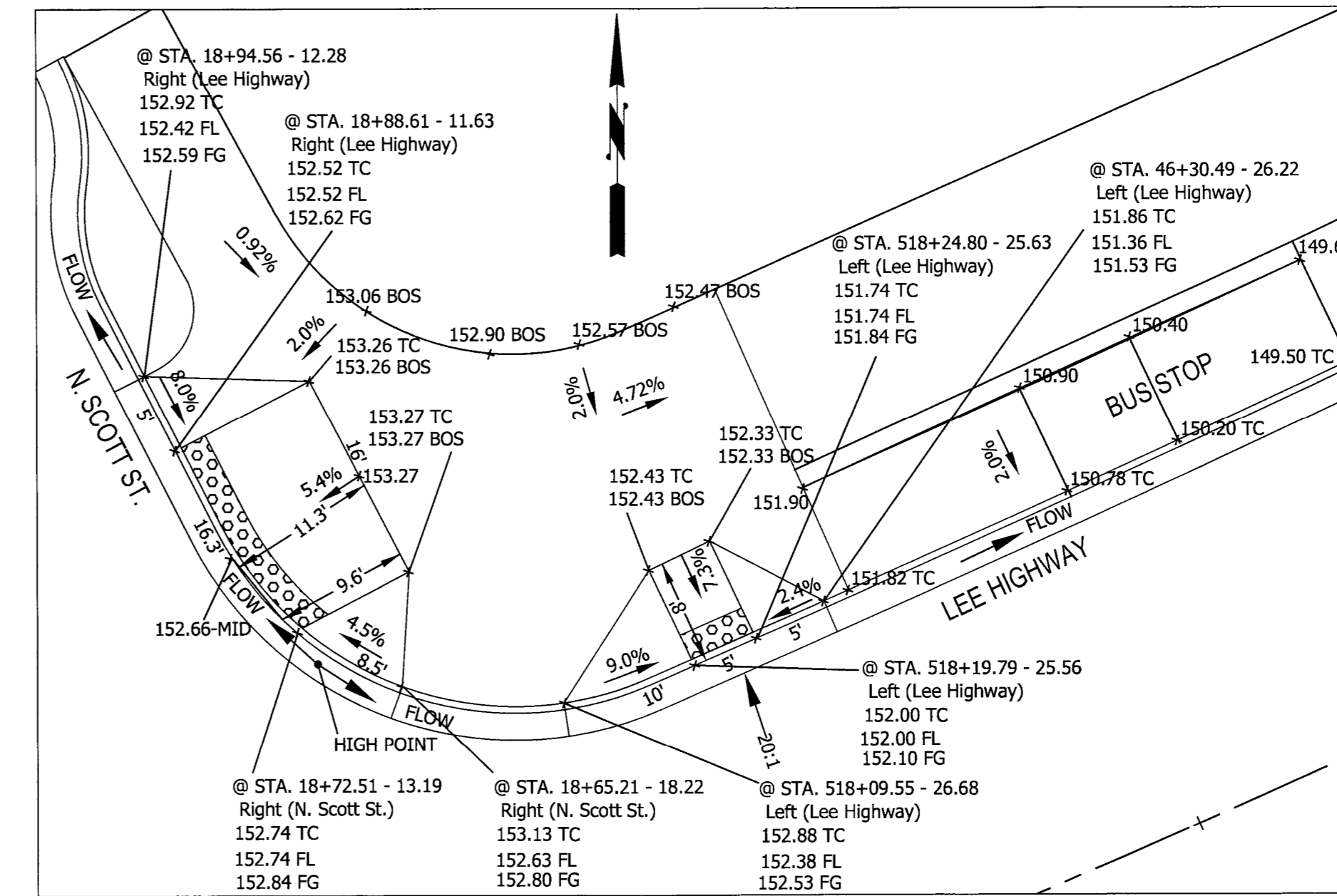
NW Curb Ramps-N. Quinn St.
Scale: 1"=10'



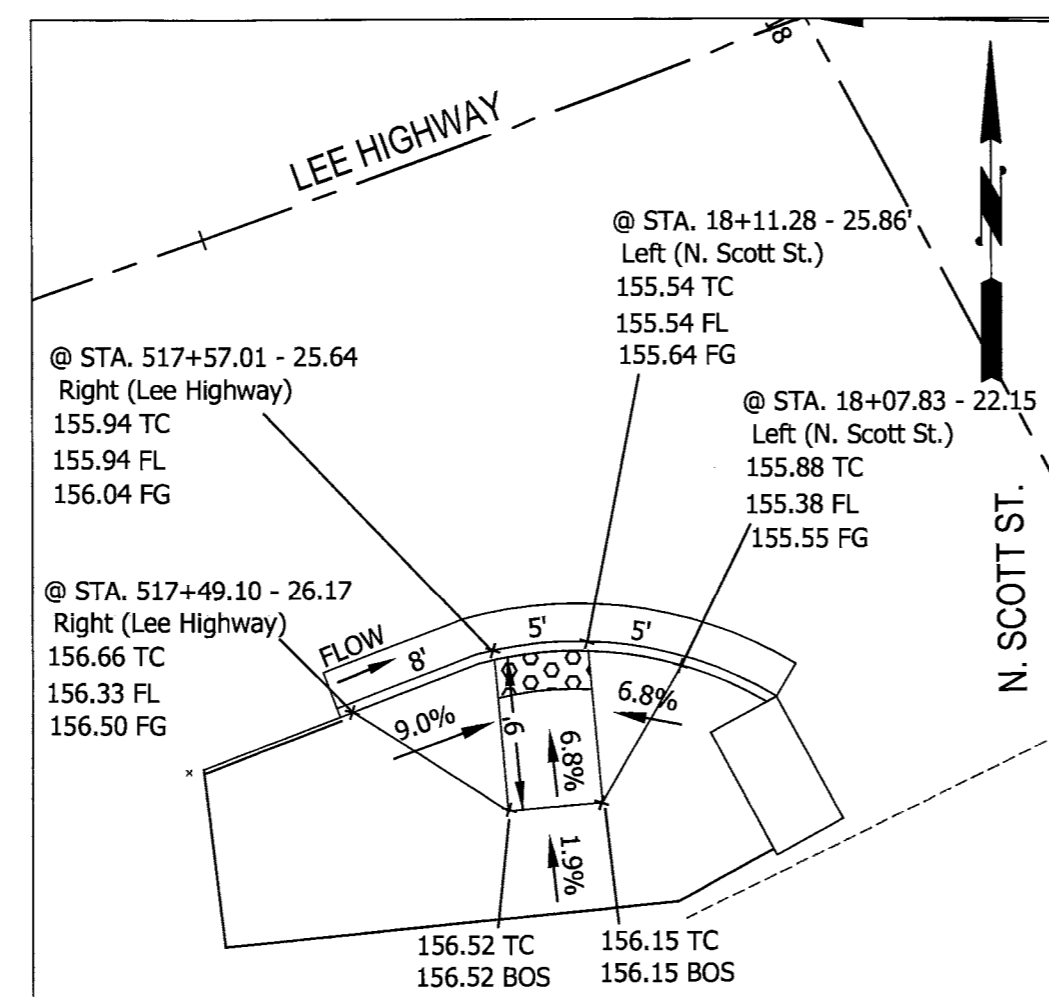
NE Curb Ramps-N. Quinn St.
Scale: 1"=10'



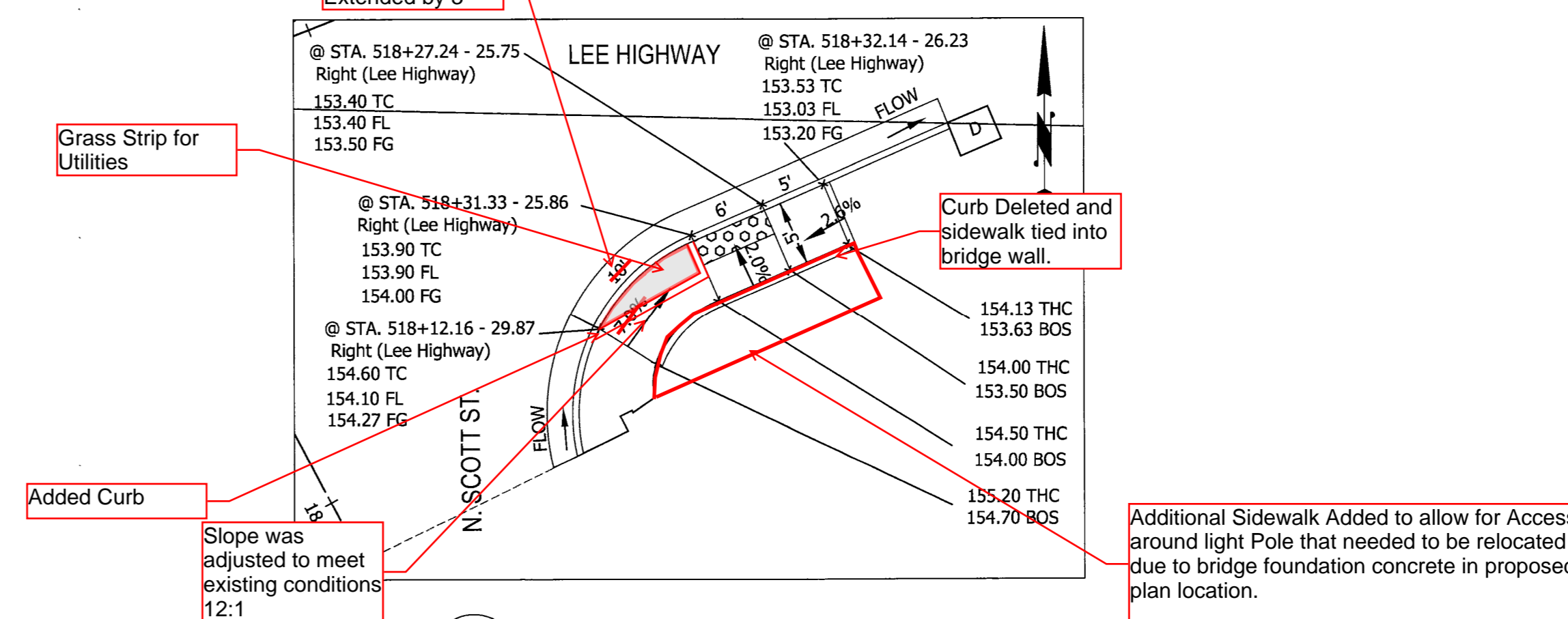
NW Curb Ramps-N. Scott St.
Scale: 1"=10'



NE Curb Ramps-N. Scott St.
Scale: 1"=10'

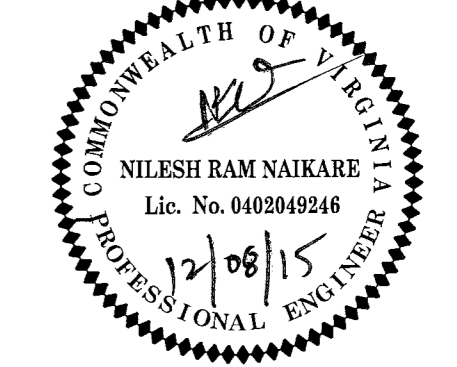


SW Curb Ramps-N. Scott St.
Scale: 1"=10'



SE Curb Ramps-N. Scott St.
Scale: 1"=10'

Seal



Approvals Date

DESIGN TEAM SUPERVISOR 12/08/15

ENGINEERING BUREAU CHIEF 12/08/15

WATER-SEWER STREETS BUREAU CHIEF 12/08/15

TRANSPORTATION DIRECTOR 12/08/15

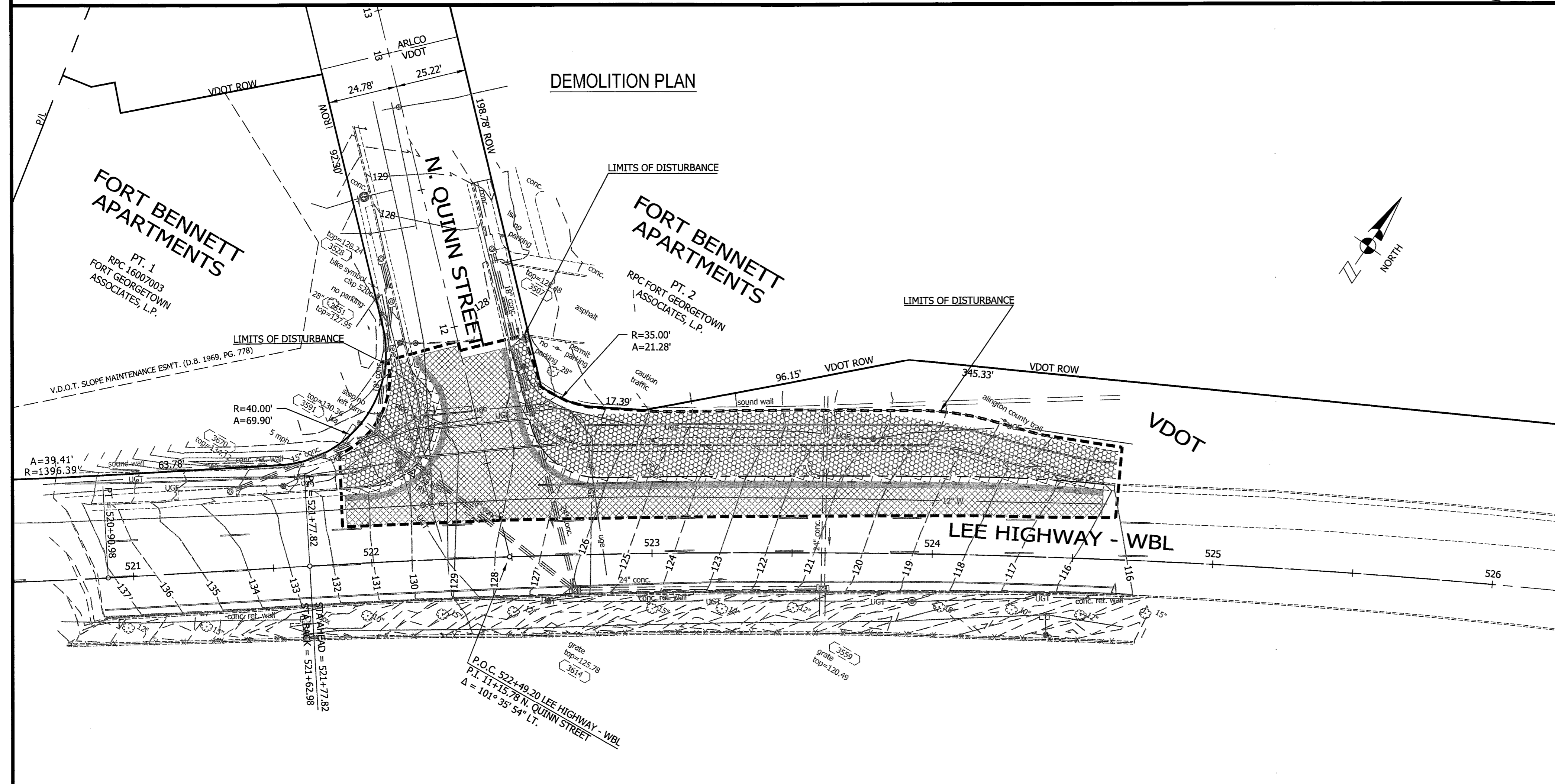
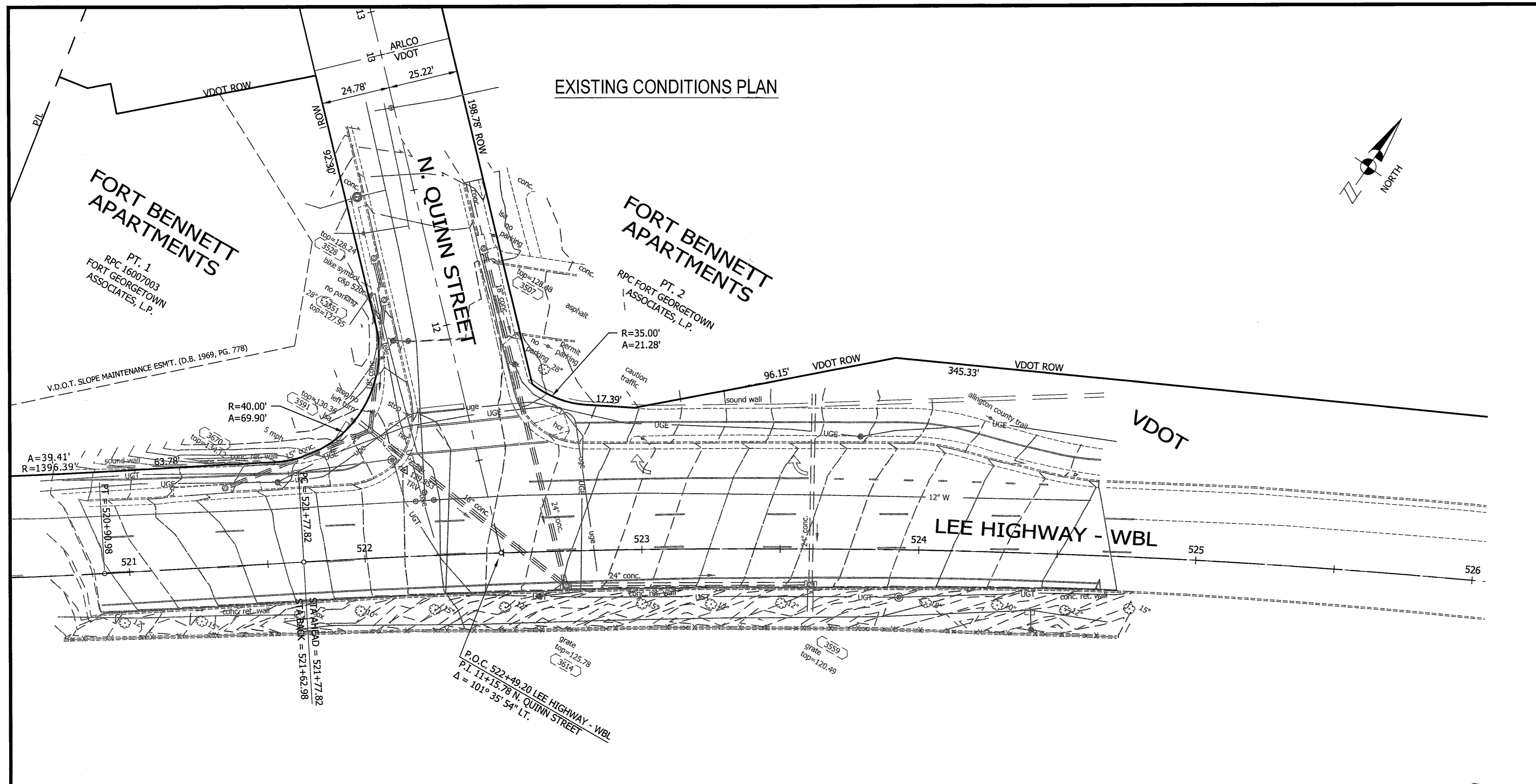
Revisions Date

Revisions	Date

Custis Trail-Safety Improvements
Detail Sheet 3 (Ramp Details)
Safety Improvements Project
From N. Oak Street
To N. Scott Street
313.43520.B006K.0319.0000

Designed: PB
Drawn: PB
Checked: NN
Miss Utility Transmittal #: 5203-D
Filename: PPLAN_90 August.dwg
Path: C:\Data\B06K\Drawings
Plotted: September 17, 2015
Plotted by: Pbanepall

Scale: As Noted



LEGEND	
[Hatched Pattern]	REMOVE EXISTING CURB & GUTTER
[Hatched Pattern]	DEMOLISH EXISTING DRIVEWAY
[Hatched Pattern]	DEMOLISH EXISTING SIDEWALK
[Hatched Pattern]	FULL DEPTH PAVEMENT REMOVAL
[Hatched Pattern]	MILL EXISTING ASPHALT

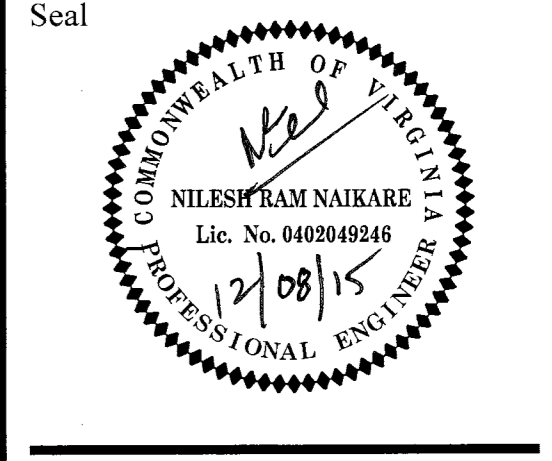
- DEMOLITION NOTES:**
- I. GENERAL
1. INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND TREE PROTECTION FENCES, AS SHOWN ON THE PLANS, PRIOR TO COMMENCING THE WORK.
 2. COORDINATE UTILITY (PERMANENT AND/OR TEMPORARY) SHUTOFF, DISCONNECT AND/OR ABANDONMENT WITH UTILITY OWNER AND PROJECT OFFICER.
 3. MAINTAIN ONE ACCESS TO ALL FACILITIES IN THE VICINITY OF THE CONSTRUCTION AREA AT ALL TIME. PROVIDE TEMPORARY PAVEMENT AT THE ACCESS AS NECESSARY.
 4. DO NOT DAMAGE SALVAGE ITEMS. CLEAN AND DELIVER SALVAGE ITEMS AS DIRECTED BY THE PROJECT OFFICER.
 5. REMOVE CONCRETE SIDEWALK, CURB AND GUTTER TO THE NEAREST JOINTS.

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
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Approvals	Date
[Signature]	12/08/15
DESIGN TEAM SUPERVISOR	
[Signature]	12/08/15
ENGINEERING BUREAU CHIEF	
[Signature]	12/15/15
WATER, SEWER STREETS BUREAU CHIEF	
[Signature]	12/15/15
TRANSPORTATION DIRECTOR	

Revisions	Date

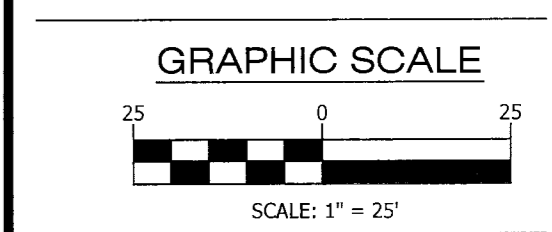
Project Name and Location
Custis Trail-Safety Improvements
 Ex Conditions & Demolition Plan - N. Quinn St.

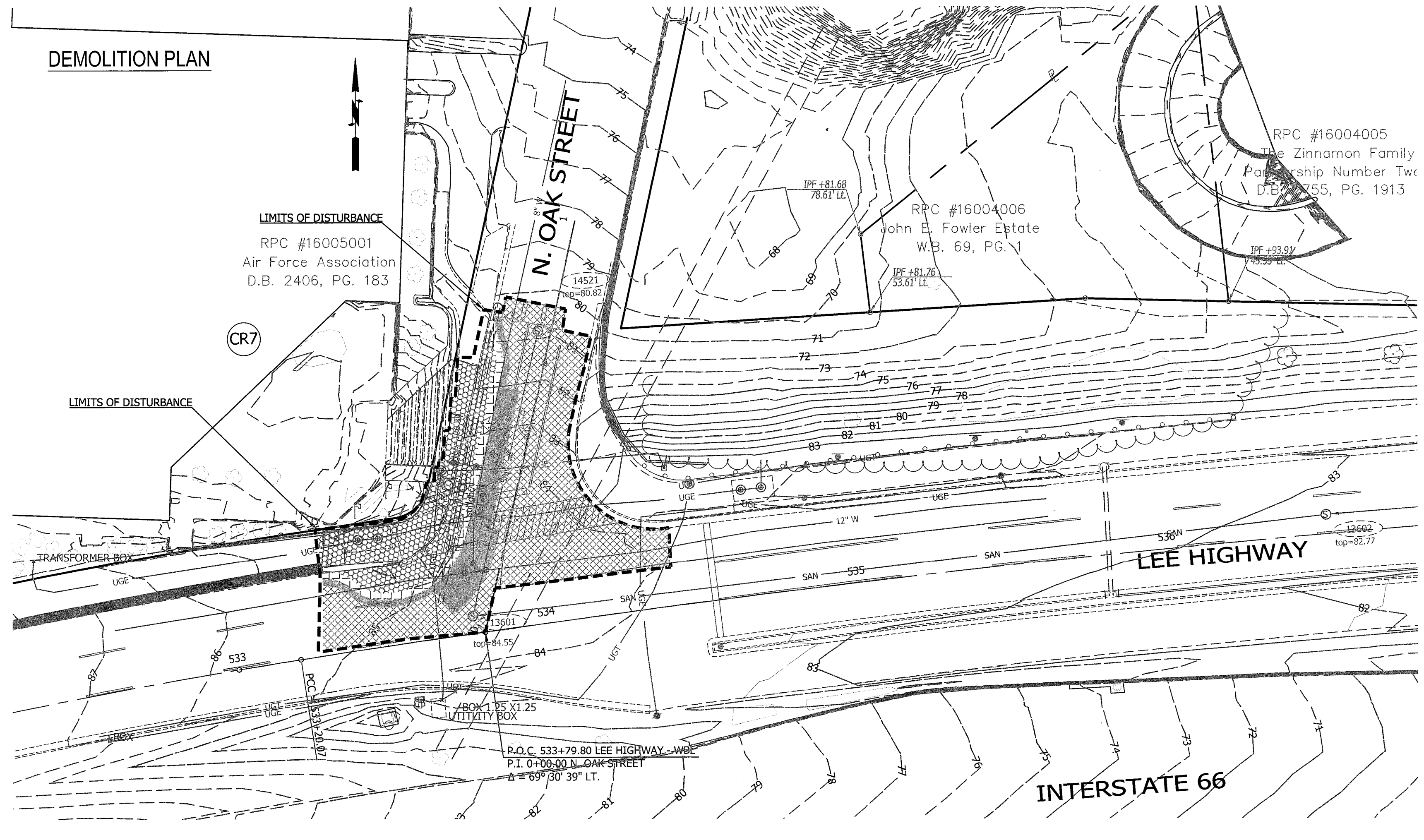
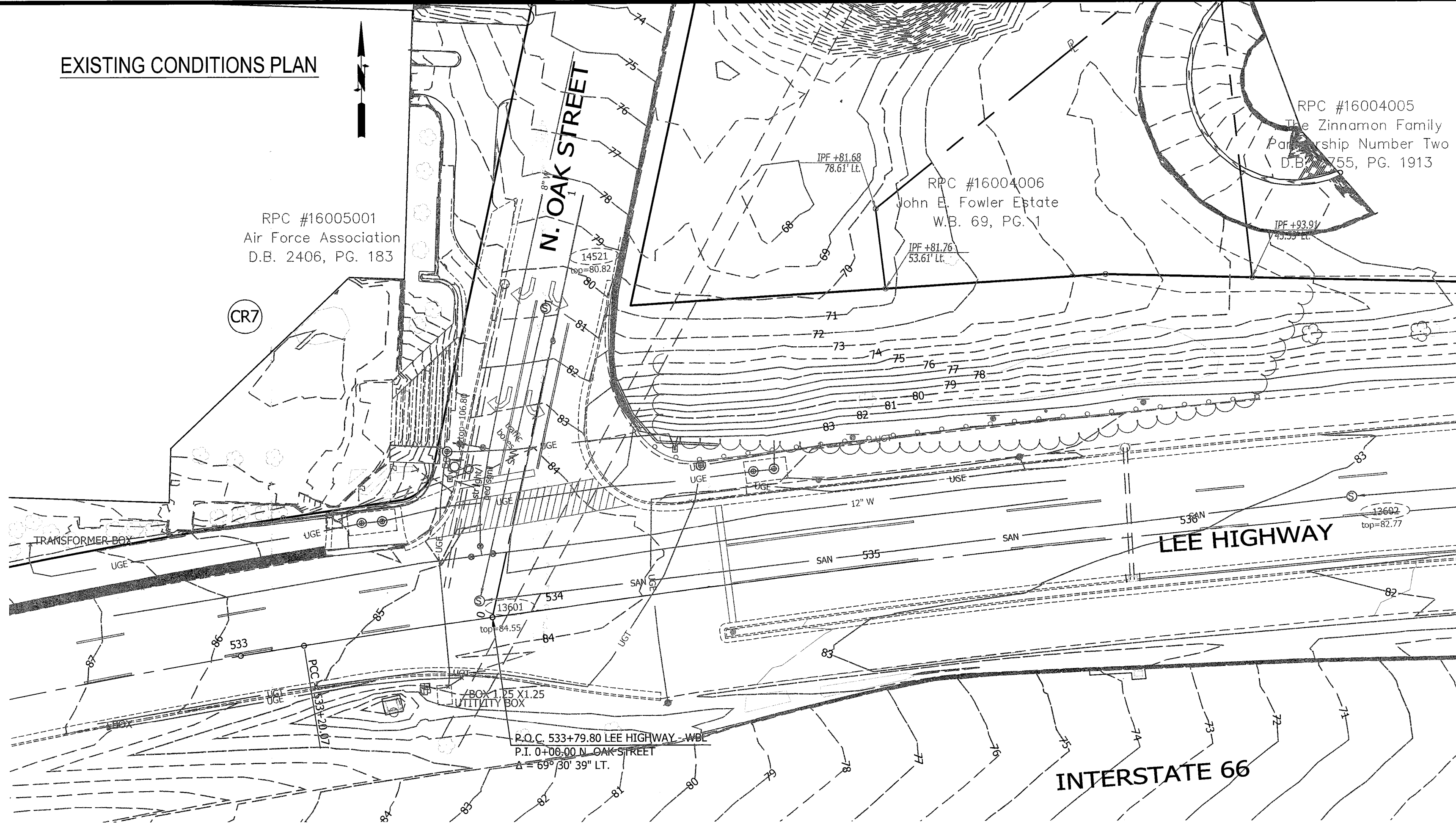
Safety Improvements Project
 From N. Oak Street
 To N. Scott Street
 31.3.45.20.B06K.0319.0000

Designed: PB
 Drawn: PB
 Checked: NN
 Miss Utility Transmittal #: 5203-D

Filename: PPLAN_90 August.dwg
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 Plotted: September 17, 2015
 Plotted by: Pbanepali

Scale: Hor: 1" = 25'
 Vert: 1" = 5'





LEGEND

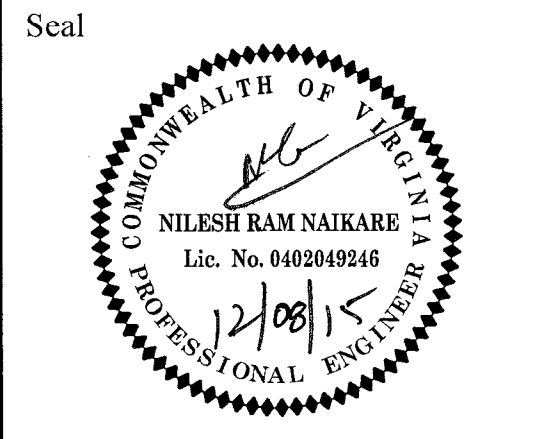
	REMOVE EXISTING CURB & GUTTER
	DEMOLISH EXISTING DRIVEWAY
	DEMOLISH EXISTING SIDEWALK
	FULL DEPTH PAVEMENT REMOVAL
	MILL EXISTING ASPHALT

- DEMOLITION NOTES:**
- I. GENERAL
1. INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND TREE PROTECTION FENCES, AS SHOWN ON THE PLANS, PRIOR TO COMMENCING THE WORK.
 2. COORDINATE UTILITY (PERMANENT AND/OR TEMPORARY) SHUTOFF, DISCONNECT AND/OR ABANDONMENT WITH UTILITY OWNER AND PROJECT OFFICER.
 3. MAINTAIN ONE ACCESS TO ALL FACILITIES IN THE VICINITY OF THE CONSTRUCTION AREA AT ALL TIME. PROVIDE TEMPORARY PAVEMENT AT THE ACCESS AS NECESSARY.
 4. DO NOT DAMAGE SALVAGE ITEMS. CLEAN AND DELIVER SALVAGE ITEMS AS DIRECTED BY THE PROJECT OFFICER.
 5. REMOVE CONCRETE SIDEWALK, CURB AND GUTTER TO THE NEAREST JOINTS.

ARLINGTON
VIRGINIA

DEPARTMENT OF
ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3529
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Approvals Date

DESIGN TEAM SUPERVISOR 12/08/15

ENGINEERING BUREAU CHIEF 12/08/15

WATER, SEWER STREETS BUREAU CHIEF 12/08/15

TRANSPORTATION DIRECTOR 12/11/15

Revisions Date

Project Name and Location

Custis Trail-Safety Improvements
Ex Conditions & Demolition Plan- N. Oak St.

From N. Oak Street
To N. Scott Street
313.43520.B06K.0319.0000

Designed: PB
Drawn: PB
Checked: NN
Miss Utility Transmittal #: 5203-D

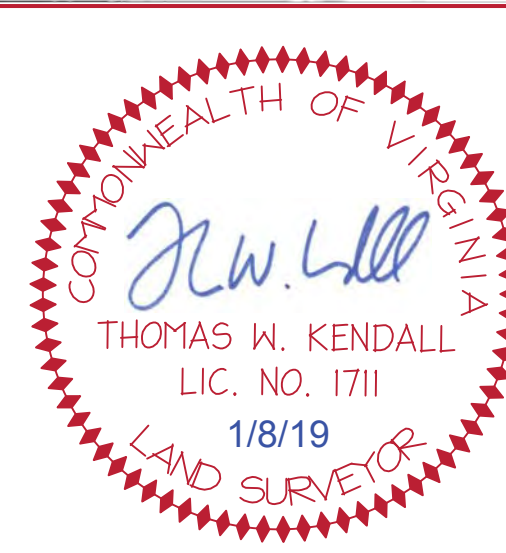
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Plotted by: Pbanepali

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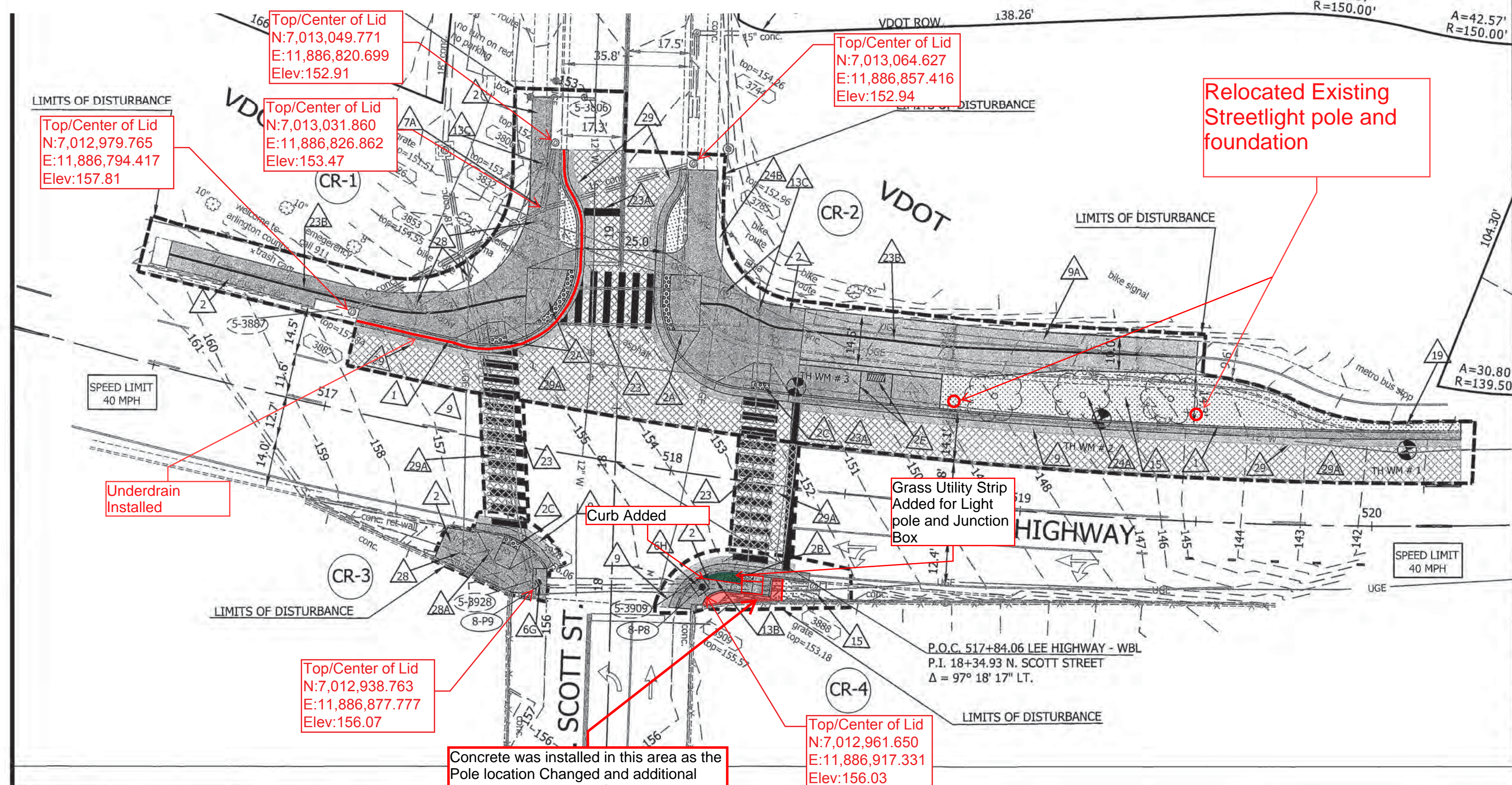
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Sheet
7 of 44

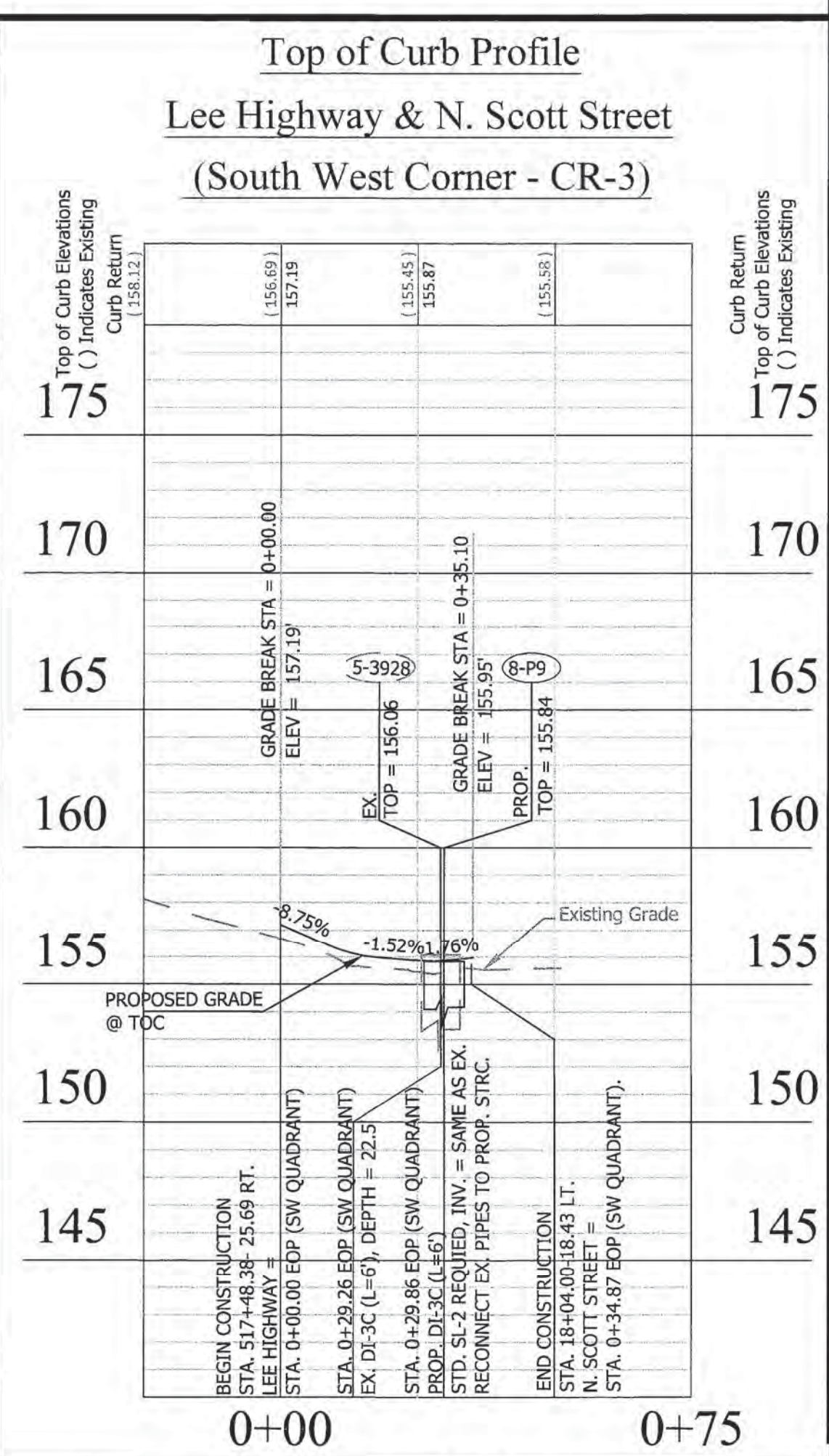
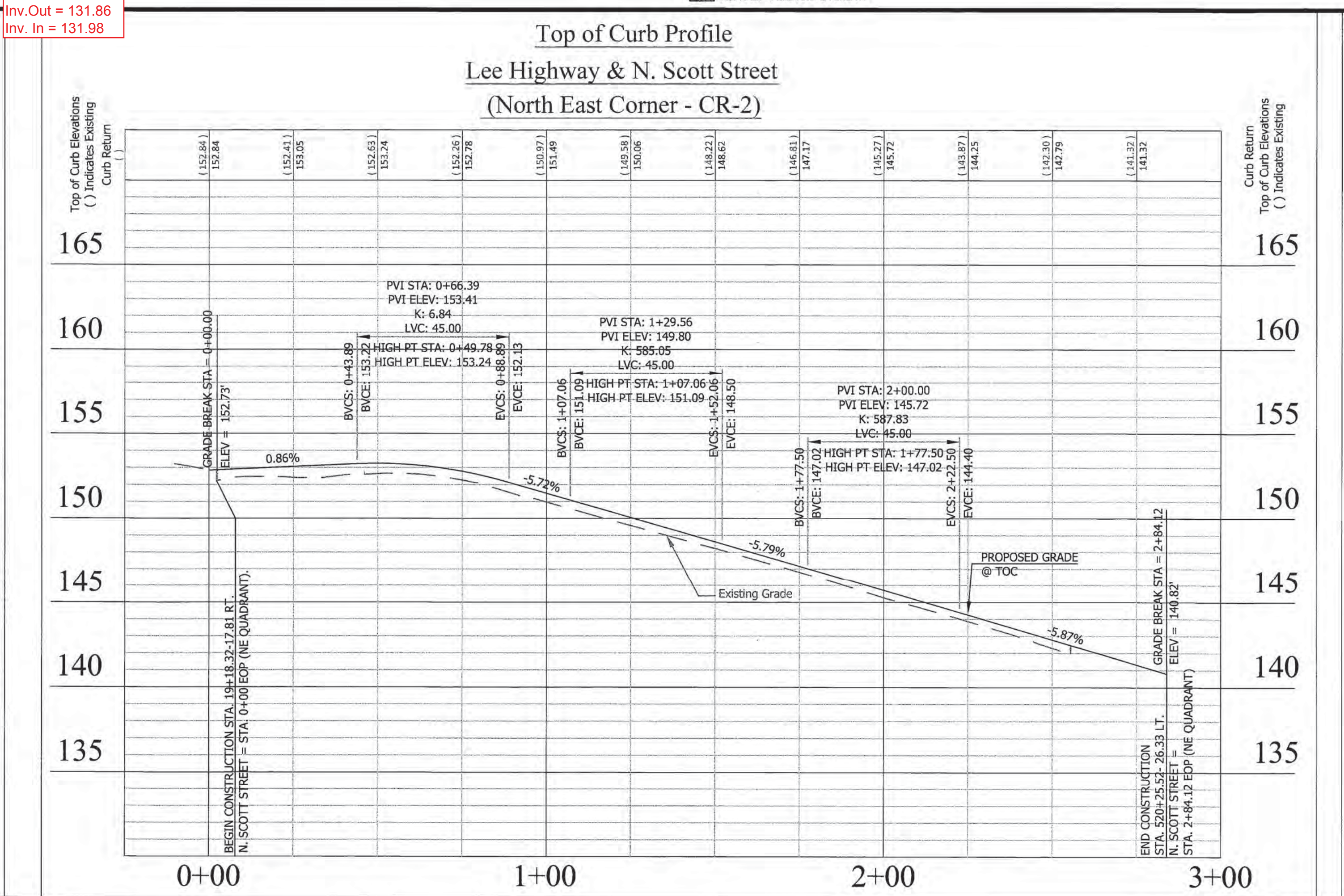
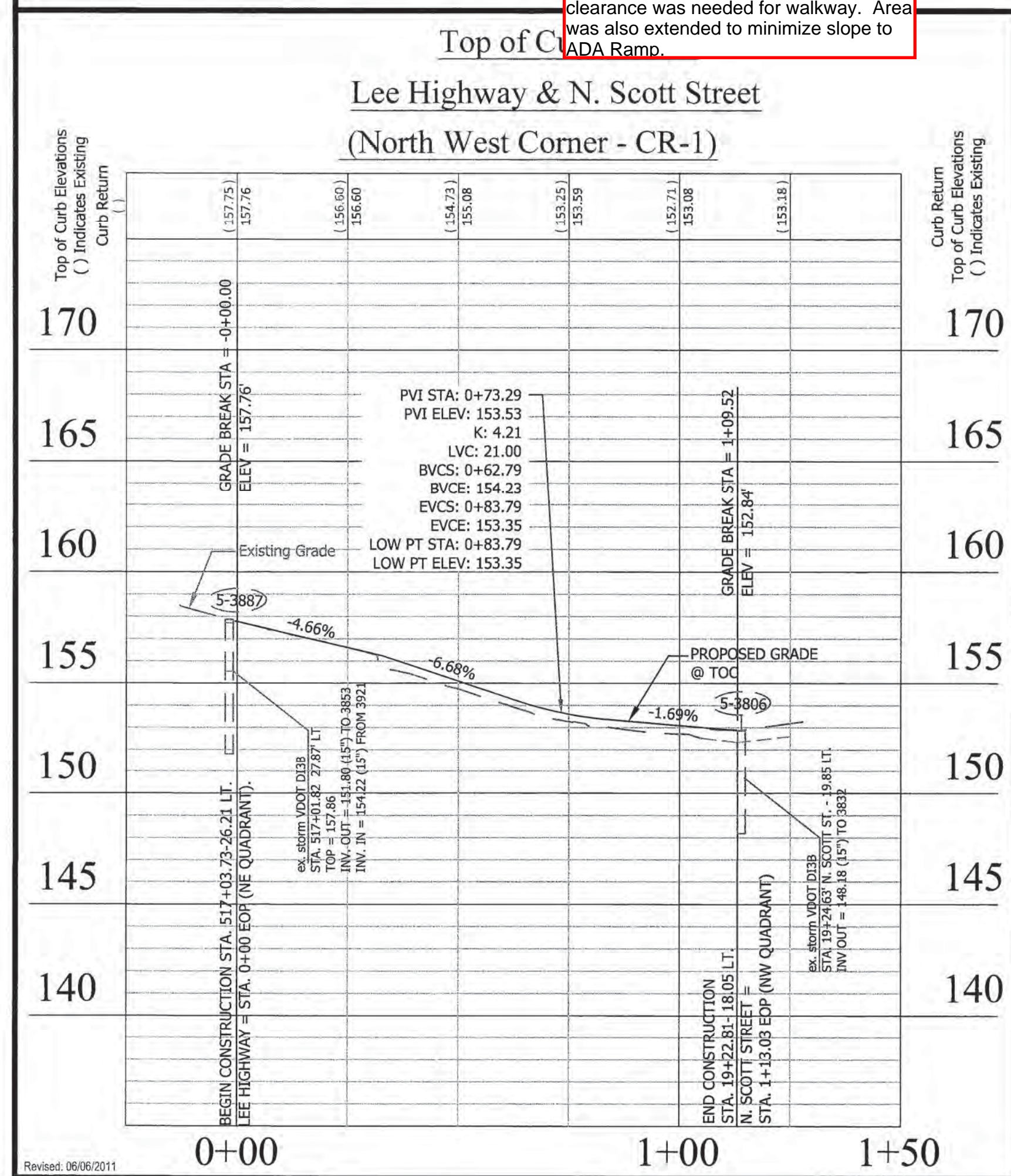
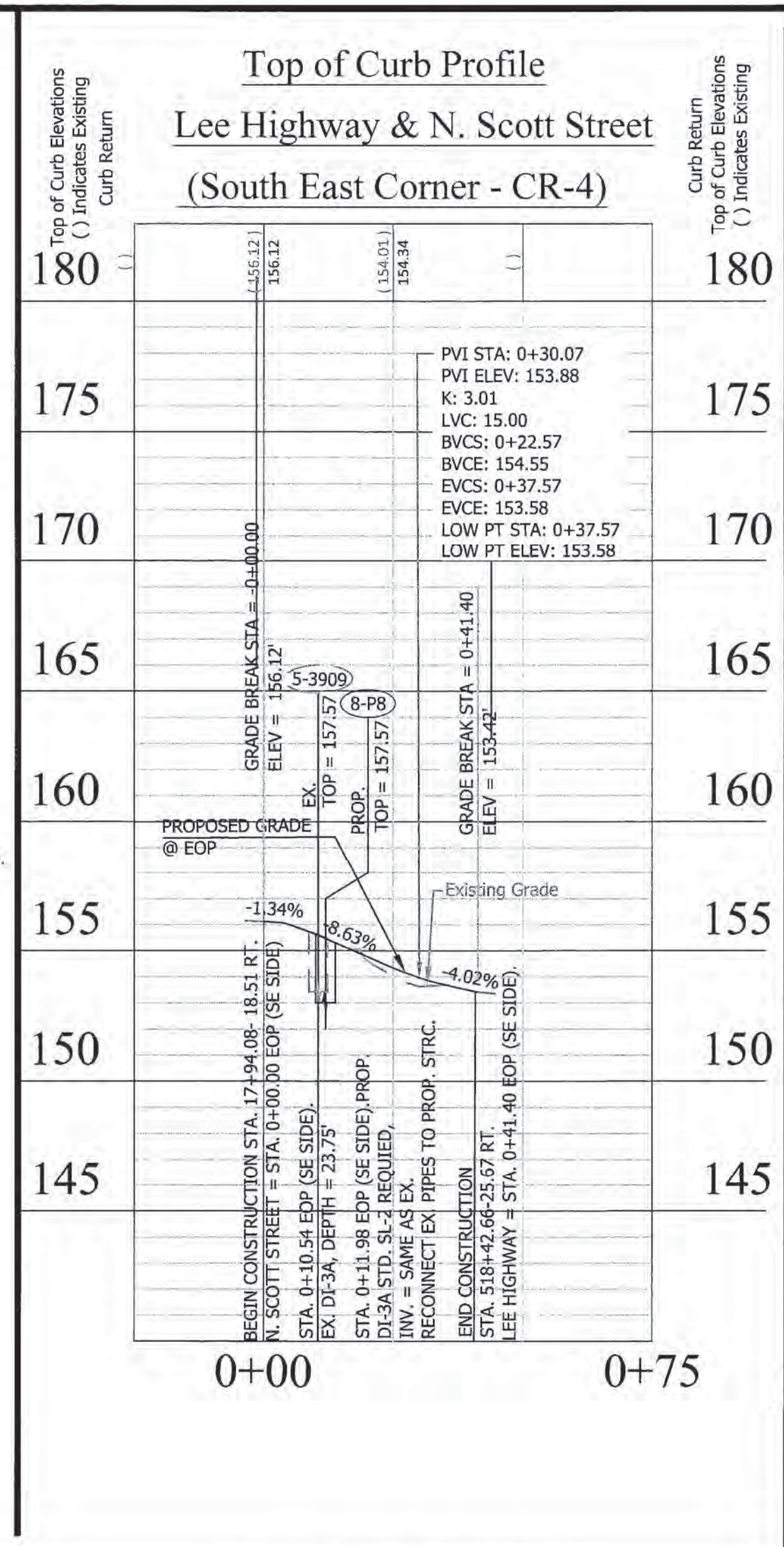


"As-Built" Drawings Prepared by:
Kendall Consulting, Inc.

Land Surveying & Land Planning
 P. O. Box 1569 - Fairfax, Virginia 22038
 Ph: (703) 591-1157 - Fax: (631) 876-6507 - twk.kci@verizon.net



- ### CONSTRUCTION NOTES
- 1. NEW CURB AND GUTTER VDOT STANDARD CG-6
 - 2. NEW CONC. SIDEWALK ARLINGTON COUNTY STANDARD (R-2.0).
 - 3. NEW HANDICAP RAMP (CG-12A MODIFIED) VDOT ROAD AND BRIDGE STANDARDS (203.06).
 - 4. NEW HANDICAP RAMP (CG-12A) VDOT ROAD AND BRIDGE STANDARDS (203.07).
 - 5. NEW HANDICAP RAMP (CG-12A) VDOT ROAD AND BRIDGE STANDARDS (203.06).
 - 6. PROPOSED ARLINGTON COUNTY STANDARD BUS STOP PAD. SEE SHEET 2 OF 44 FOR DETAIL.
 - 7. INSTALL STANDARD CURB DROP INLET DE-3B VDOT ROAD & BRIDGE STANDARDS (104.09) INLET TOP OVER EXISTING MANHOLE.
 - 8. CONVERT EXISTING CATCH BASIN TO STORM MANHOLE.
 - 9. INSTALL STANDARD CURB DROP INLET, MODIFIED 6' - DI-3C (WITH 72" MANHOLE) VDOT ROAD & BRIDGE STANDARDS (104.09).
 - 10. INSTALL STANDARD CURB DROP INLET, DI-3A VDOT ROAD & BRIDGE STANDARDS (104.09).
 - 11. INSTALL STANDARD CURB DROP INLET, DI-2A VDOT ROAD & BRIDGE STANDARDS (104.03).
 - 12. ADJUST EXISTING STORM SEWER MANHOLE COVER TO PROPOSED GRADE.
 - 13. CONNECT PROP. 15" RCP PIPE TO EXISTING MANHOLE.
 - 14. ASPHALT - FULL DEPTH REPLACEMENT.
 - 15. ASPHALT - HIKING - BIKING - JOGGING TRAIL ARLINGTON COUNTY STANDARD (R-6.1).
 - 16. EXISTING STREET LIGHT TO BE REMOVED BY OTHERS.
 - 17. ADJUST EXISTING ELECTRIC MANHOLE TO PROPOSED GRADE.
 - 18. REMOVE EXISTING FIRE HYDRANT AND INSTALL NEW FIRE HYDRANT AT A NEW LOCATION ARLINGTON COUNTY STANDARD (R-7.0).
 - 19. ADJUST EXISTING WATER VALVE TO NEW GRADE.
 - 20. PROPOSED UTILITY STRIP.
 - 21. RELOCATE EXISTING SIGN (SEE SHEET 28 OF 44 & 29 OF 44).
 - 22. EXISTING SIGN AND LANDSCAPING TO REMAIN IN PLACE. SPECIAL CARE SHOULD BE TAKEN TO NOT DISTURB, OR DAMAGE STRUCTURE.
 - 23. DEMOLISH EXISTING SOUND WALL FROM STA 533+31.13 TO 26.69 LT. LEE HWY TO STA. 533+55.67 25.44 LT. LEE HWY.
 - 24. EXISTING SOUND WALL TO REMAIN.
 - 25. PROPOSED CROSSWALK (SEE SIGNAGE & PAVEMENT MARKING PLAN SHEET 29, 30 AND 31 OF 44).
 - 26. PROPOSED STOP BAR, TYPE B, CLASS 1 WHITE 24" WIDTH (SEE SIGNAGE AND PAVEMENT MARKING PLAN SHEET 29, 30 AND 31 OF 44).
 - 27. PROPOSED 4" WIDTH YELLOW LINE (SEE SIGNAGE AND PAVEMENT MARKING PLAN SHEET 29, 30 AND 31 OF 44).
 - 28. PROPOSED PLATANUS x acerifolia TREES TO BE PLANTED (BY OTHERS) PER ARLINGTON COUNTY DPR STANDARDS.
 - 29. RESTORE DEMOLISHED PAVEMENT AREA WITH FILL DIRT, TOP SOIL (PER ARLINGTON COUNTY DPR STANDARD #029300.5 NOTE 10 AND SOD).
 - 30. ADJUST EXISTING TRAFFIC JUNCTION BOX TO PROPOSED GRADE.
 - 31. EXISTING MAST ARM TO REMAIN IN PLACE.
 - 32. FULL DEPTH SAWCUT AT ALL JOINTS BETWEEN THE EXISTING PAVEMENT & THE PROPOSED WIDENING.
 - 33. ASPHALT - MILL AND OVERLAY.



ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
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 Fax: 703.228.3606

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Seal: NILESH RAM NAIKARE, License No. 0402049246, Professional Engineer, Virginia, dated 12/08/15

Approvals: [Signatures] Date: 12/08/15

DESIGN TEAM SUPERVISOR: [Signature] 12/08/15
 ENGINEERING BUREAU CHIEF: [Signature] 12/15/15
 WATER, SEWER STREETS BUREAU CHIEF: [Signature] 12/15/15
 TRANSPORTATION DIRECTOR: [Signature] 12/15/15

Revisions: _____ Date: _____

Project Name and Location:
Custis Trail-Safety Improvements
 Plan and Profile N. Scott Street
 Safety Improvements Project
 From N.Oak Street
 To N. Scott Street
 313.433200.B06K.0319.0000

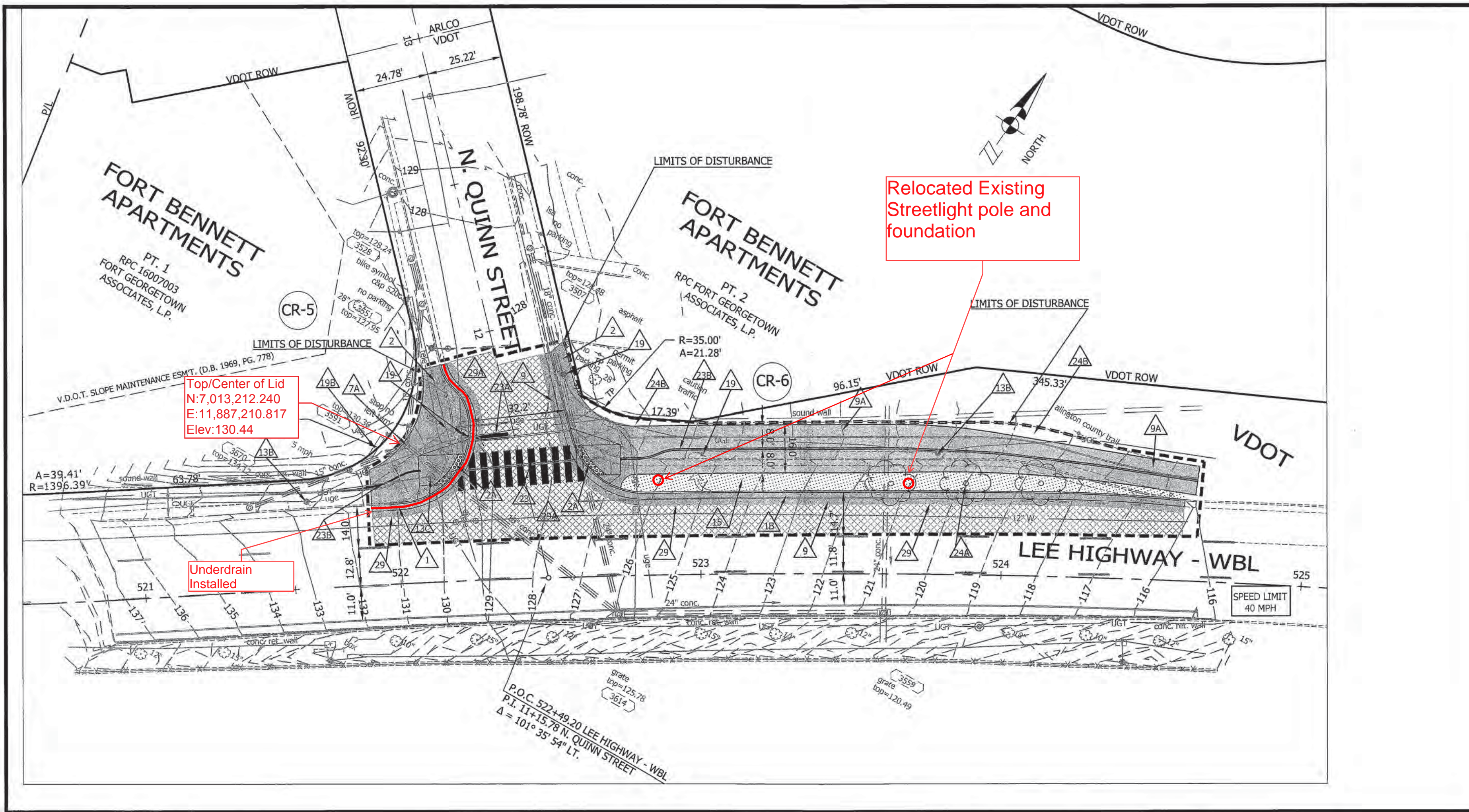
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 Checked: NN
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 Plotted: September 17, 2015
 Plotted by: Phaneppai

Scale: Hor: 1" = 25'
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GRAPHIC SCALE
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 SCALE: 1" = 25'

Sheet: 8 of 44

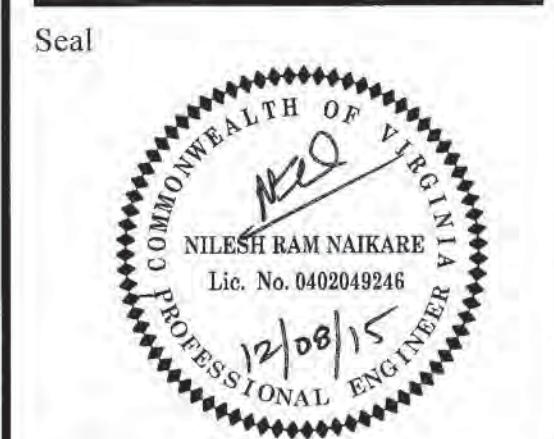


- ### CONSTRUCTION NOTES
1. NEW CURB AND GUTTER VDOT STANDARD CG-6
 2. NEW CONC. SIDEWALK ARLINGTON COUNTY STANDARD (R-2.0).
 - 2A. NEW HANDICAP RAMP (CG-12A MODIFIED) VDOT ROAD AND BRIDGE STANDARDS (203.06).
 - 2B. NEW HANDICAP RAMP (CG-12B MODIFIED) VDOT ROAD AND BRIDGE STANDARDS (203.07).
 - 2C. NEW HANDICAP RAMP (CG-12A) VDOT ROAD AND BRIDGE STANDARDS (203.06).
 - 2D. PROPOSED ARLINGTON COUNTY STANDARD BUS STOP PAD. SEE SHEET 2 OF 44 FOR DETAIL.
 3. INSTALL STANDARD CURB DROP INLET DI-3B VDOT ROAD & BRIDGE STANDARDS (104.09) INLET TOP OVER EXISTING MANHOLE.
 4. CONVERT EXISTING CATCH BASIN TO STORM MANHOLE.
 5. INSTALL STANDARD CURB DROP INLET, MODIFIED 5' - DI-3C (WITH 72" MANHOLE) VDOT ROAD & BRIDGE STANDARDS (104.09).
 - 6A. INSTALL STANDARD CURB DROP INLET, DI-3A VDOT ROAD & BRIDGE STANDARDS (104.09).
 7. INSTALL STANDARD CURB DROP INLET, DI-2A VDOT ROAD & BRIDGE STANDARDS (104.03).
 - 7A. ADJUST EXISTING STORM SEWER MANHOLE COVER TO PROPOSED GRADE.
 8. CONNECT PROP. 15" RCP PIPE TO EXISTING MANHOLE.
 9. ASPHALT - FULL DEPTH REPLACEMENT.
 - 9A. ASPHALT - HIKING - BIKING - JOGGING TRAIL ARLINGTON COUNTY STANDARD (R-6.1).
 10. EXISTING STREET LIGHT TO BE REMOVED BY OTHERS.
 11. ADJUST EXISTING ELECTRIC MAHOLE TO PROPOSED GRADE.
 12. REMOVE EXISTING FIRE HYDRANT AND INSTALL NEW FIRE HYDRANT AT A NEW LOCATION ARLINGTON COUNTY STANDARD (R-7.0).
 13. ADJUST EXISTING WATER VALVE TO NEW GRADE.
 14. PROPOSED UTILITY STRIP.
 15. RELOCATE EXISTING SIGN (SEE SHEET 29 OF 44 & 30 OF 44).
 16. EXISTING SIGN AND LANDSCAPING TO REMAIN IN PLACE. SPECIAL CARE SHOULD BE TAKEN TO NOT DISTURB, OR DAMAGE STRUCTURE.
 17. DEMOLISH EXISTING SOUND WALL FROM STA 533+31.13 26.69 LT. LEE HWY TO STA. 533+55.67 25.44 LT. LEE HWY.
 18. EXISTING SOUND WALL TO REMAIN.
 19. PROPOSED CROSSWALK (SEE SIGNAGE & PAVEMENT MARKING PLAN SHEET 29, 30 AND 31 OF 44).
 20. PROPOSED STOP BAR, TYPE B, CLASS 1 WHITE 24" WIDTH (SEE SIGNAGE AND PAVEMENT MARKING PLAN SHEET 29, 30 AND 31 OF 44).
 21. PROPOSED 4" WIDTH YELLOW LINE (SEE SIGNAGE AND PAVEMENT MARKING PLAN SHEET 29, 30 AND 31 OF 44).
 22. PROPOSED PLATANUS x acerifolia TREES TO BE PLANTED (BY OTHERS) PER ARLINGTON COUNTY DPR STANDARDS.
 23. RESTORE DEMOLISHED PAVEMENT AREA WITH FILL DIRT, TOP SOIL (PER ARLINGTON COUNTY DPR STANDARD #029300.5 NOTE 10 AND SOD).
 24. ADJUST EXISTING TRAFFIC JUNCTION BOX TO PROPOSED GRADE.
 25. EXISTING MAST ARM TO REMAIN IN PLACE.
 26. FULL DEPTH SAWCUT AT ALL JOINTS BETWEEN THE EXISTING PAVEMENT & THE PROPOSED WIDENING.
 27. ASPHALT- MILL AND OVERLAY.



DEPARTMENT OF ENVIRONMENTAL SERVICES

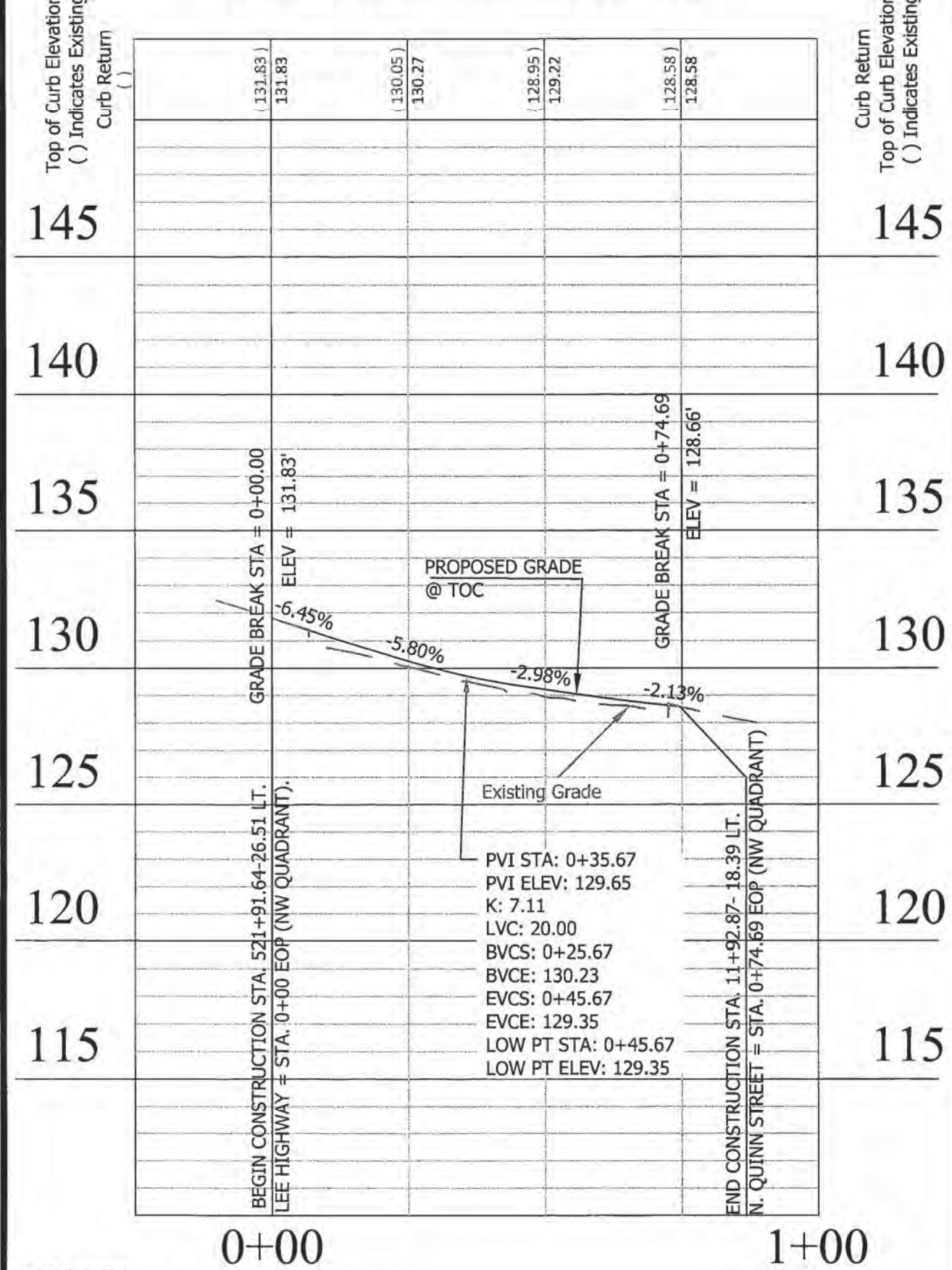
Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606



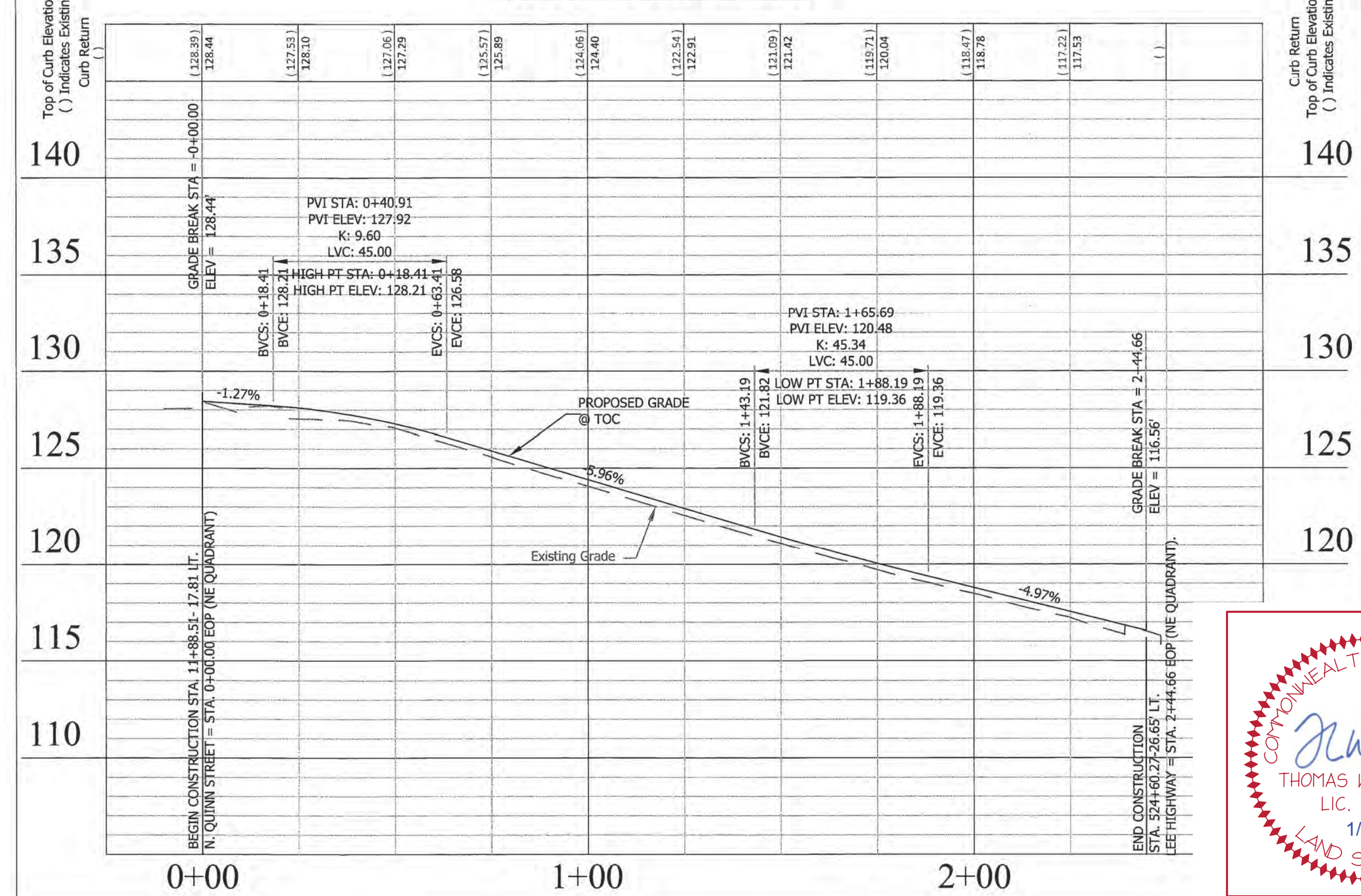
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 Design Team Supervisor: [Signature] 12/08/15
 Engineering Bureau Chief: [Signature] 12/08/15
 Water, Sewer Streets Bureau Chief: [Signature] 12/08/15
 Transportation Director: [Signature]

Revisions Date

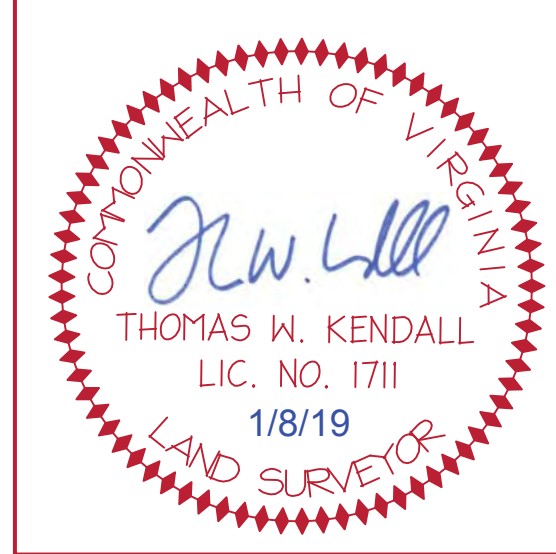
Top of Curb Profile
 Lee Highway & N. Quinn Street
 (North West Corner - CR-5)



Top of Curb Profile
 Lee Highway & N. Quinn Street
 (North East Corner - CR-6)



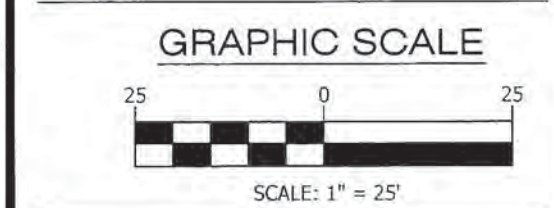
PROTECT TREE DURING CONSTRUCTION OF PROPOSED WORK AS SHOWN. CALL URBAN FORESTER (702-228-6557) PRIOR TO BEGINNING WORK ADJACENT TO TREE. PROCEED WITH WORK AS DIRECTED BY THE ENGINEER IF ANY CONFLICT ARISES WITH PROPOSED WORK.



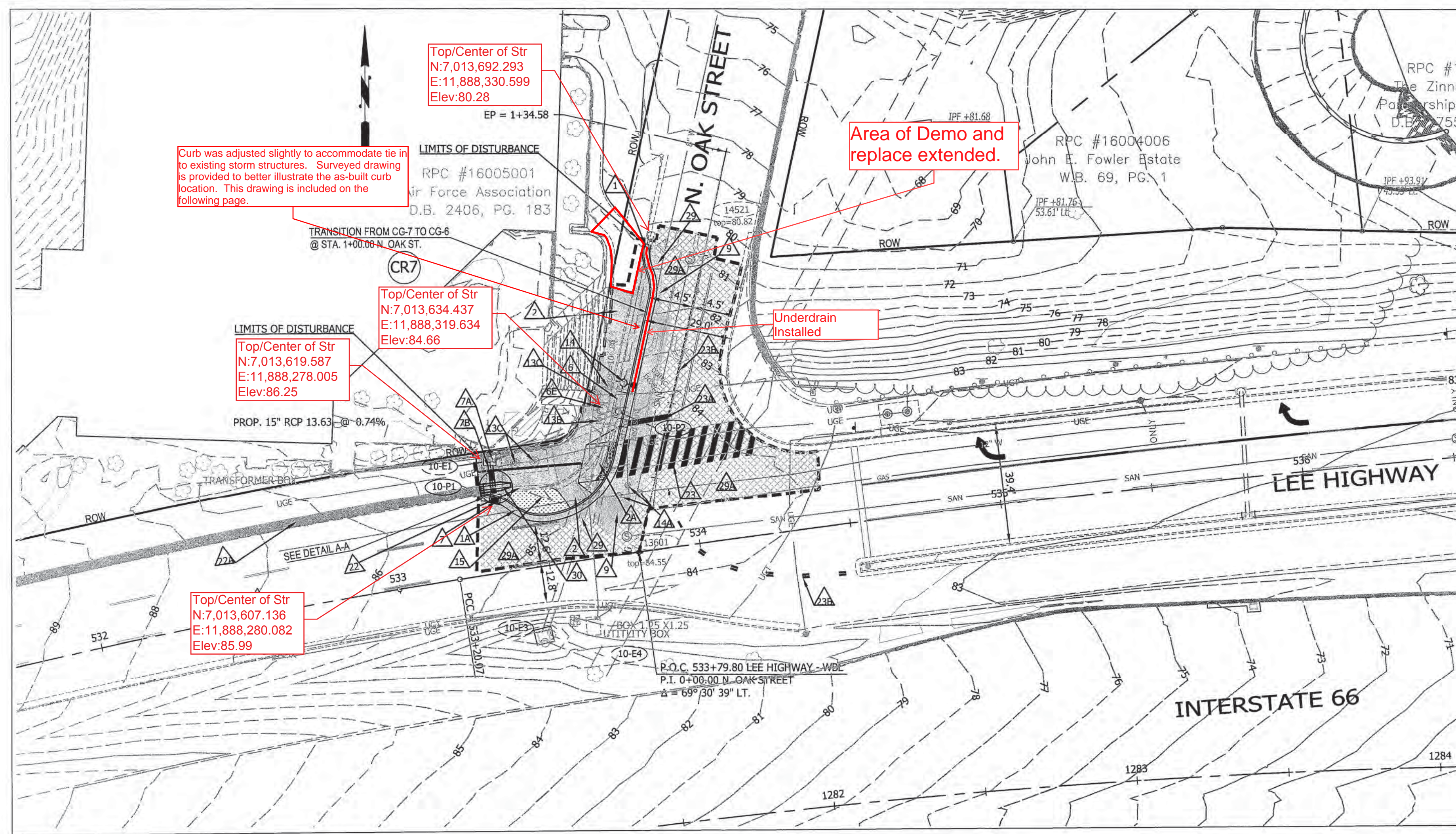
"As-Built" Drawings Prepared by:
Kendall Consulting, Inc.
 Land Surveying & Land Planning
 P. O. Box 1569 - Fairfax, Virginia 22038
 Ph: (703) 591-1157 - Fax: (631) 876-6507 - twk.kci@verizon.net

Project Name and Location
Custis Trail-Safety Improvements
 Plan and Profile N. Quinn Street
 Safety Improvements Project
 From N. Oak Street
 To N. Scott Street
 313.43520.B0665.0319.0000

Designed: PB
 Drawn: PB
 Checked: NN
 Miss Utility Transmittal #: 5203-D
 Filename: PPLAN_90 August.dwg
 Path: O:\Data\B0665\Design\Drawings
 Plotted: September 17, 2015
 Plotted by: Pbanepali



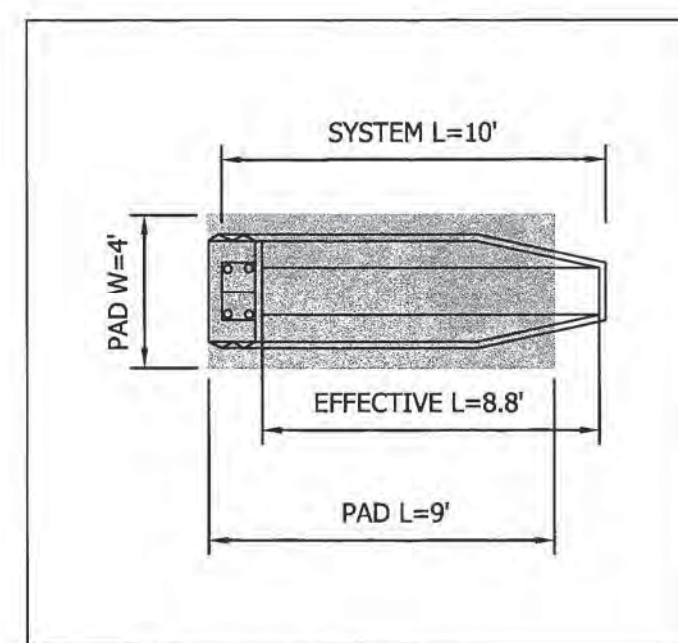
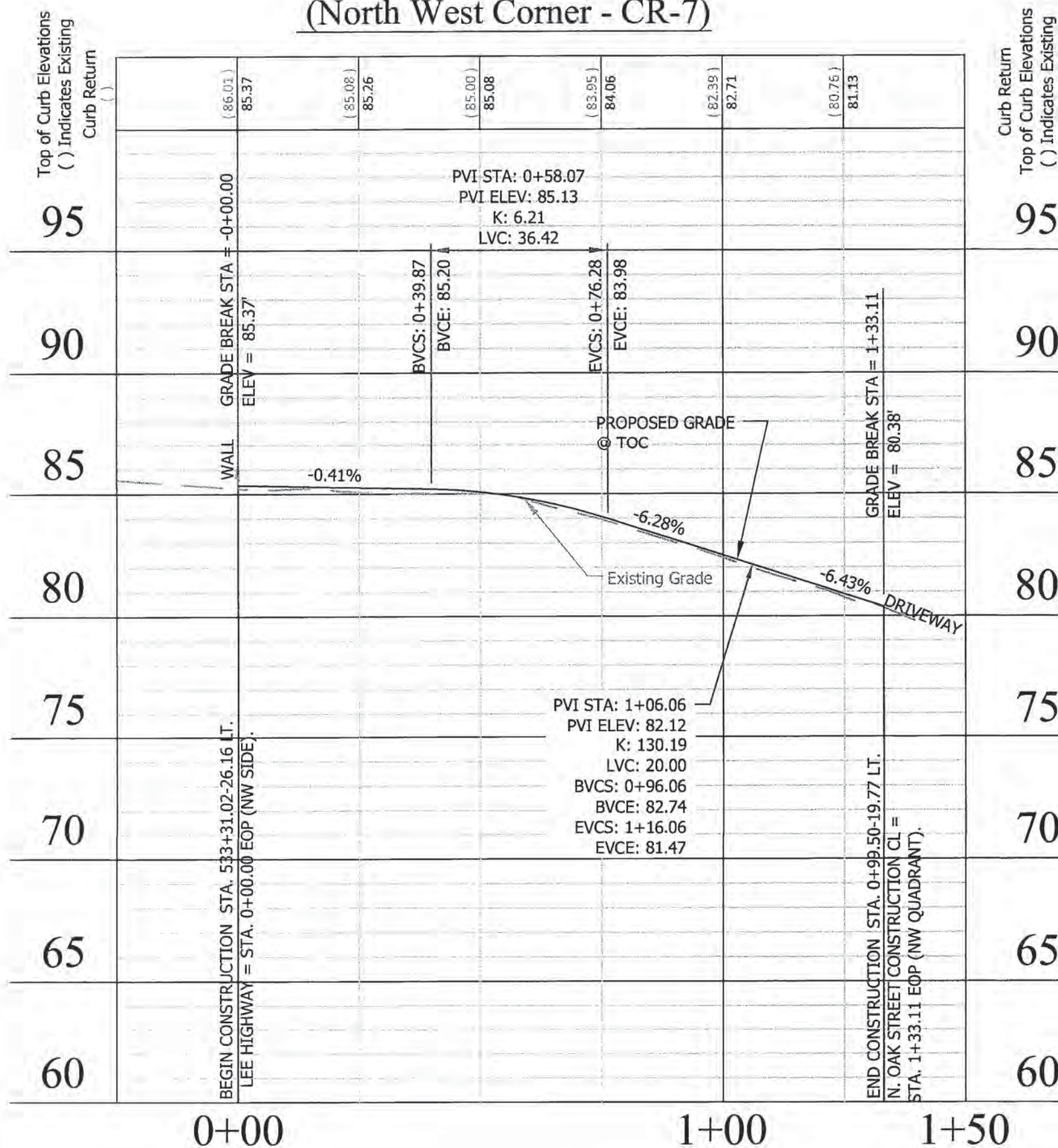
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 Sheet 9 of 44



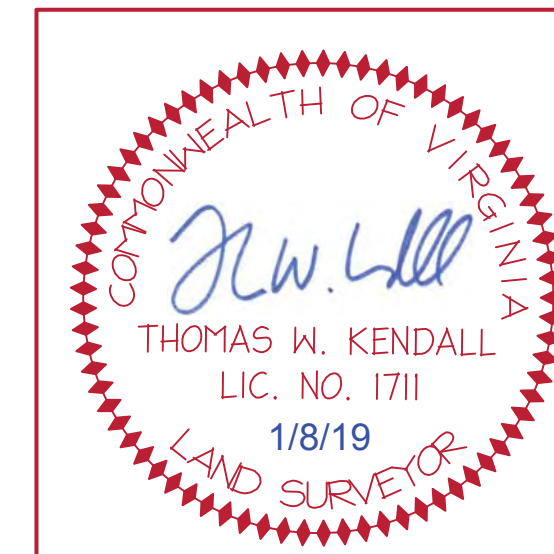
CONSTRUCTION NOTES

- ▲ NEW CURB AND GUTTER VDOT STANDARD CG-6.
- ▲1A NEW CURB AND GUTTER VDOT STANDARD CG-7.
- ▲2 NEW CONC. SIDEWALK ARLINGTON COUNTY STANDARD (R-2.0).
- ▲2A NEW HANDICAP RAMP (CG-12A MODIFIED) VDOT ROAD AND BRIDGE STANDARDS (203.06).
- ▲2B NEW HANDICAP RAMP (CG-12B MODIFIED) VDOT ROAD AND BRIDGE STANDARDS (203.07).
- ▲2C NEW HANDICAP RAMP (CG-12A) VDOT ROAD AND BRIDGE STANDARDS (203.06).
- ▲2E PROPOSED ARLINGTON COUNTY STANDARD BUS STOP PAD. SEE SHEET 2 OF 44 FOR DETAIL.
- ▲6 INSTALL STANDARD CURB DROP INLET DI-3B VDOT ROAD & BRIDGE STANDARDS (104.09) INLET TOP OVER EXISTING MANHOLE.
- ▲6E CONVERT EXISTING CATCH BASIN TO STORM MANHOLE.
- ▲6G INSTALL STANDARD CURB DROP INLET, MODIFIED 6" - DI-3C (WITH 72" MANHOLE) VDOT ROAD & BRIDGE STANDARDS (104.09).
- ▲6H INSTALL STANDARD CURB DROP INLET, DI-3A VDOT ROAD & BRIDGE STANDARDS (104.09).
- ▲6I INSTALL STANDARD CURB DROP INLET, DI-2A VDOT ROAD & BRIDGE STANDARDS (104.03).
- ▲7A ADJUST EXISTING STORM SEWER MANHOLE COVER TO PROPOSED GRADE.
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- ▲9 ASPHALT - FULL DEPTH REPLACEMENT.
- ▲9A ASPHALT - HIKING - BIKING - JOGGING TRAIL ARLINGTON COUNTY STANDARD (R-6.1).
- ▲10B EXISTING STREET LIGHT TO BE REMOVED BY OTHERS.
- ▲10C ADJUST EXISTING ELECTRIC MANHOLE TO PROPOSED GRADE.
- ▲11A REMOVE EXISTING FIRE HYDRANT AND INSTALL NEW FIRE HYDRANT AT A NEW LOCATION ARLINGTON COUNTY STANDARD (R-7.0).
- ▲14A ADJUST EXISTING WATER VALVE TO NEW GRADE.
- ▲15 PROPOSED UTILITY STRIP.
- ▲19 RELOCATE EXISTING SIGN (SEE SHEET 28 OF 44 & 29 OF 44).
- ▲19B EXISTING SIGN AND LANDSCAPING TO REMAIN IN PLACE. SPECIAL CARE SHOULD BE TAKEN TO NOT DISTURB OR DAMAGE STRUCTURE.
- ▲22 DEMOLISH EXISTING SOUND WALL FROM STA 533+31.13 26.69 LT. LEE HWY TO STA 533+55.67 25.44 LT. LEE HWY.
- ▲22A EXISTING SOUND WALL TO REMAIN.
- ▲23 PROPOSED CROSSWALK (SEE SIGNAGE & PAVEMENT MARKING PLAN SHEET 29, 30 AND 31 OF 44).
- ▲23A PROPOSED STOP BAR, TYPE B, CLASS I WHITE 24" WIDTH (SEE SIGNAGE AND PAVEMENT MARKING PLAN SHEET 29, 30 AND 31 OF 44).
- ▲23B PROPOSED 4" WIDTH YELLOW LINE (SEE SIGNAGE AND PAVEMENT MARKING PLAN SHEET 29, 30 AND 31 OF 44).
- ▲24A PROPOSED PLATANUS x acerifolia TREES TO BE PLANTED (BY OTHERS) PER ARLINGTON COUNTY DPR STANDARDS.
- ▲24B RESTORE DEMOLISHED PAVEMENT AREA WITH FILL DIRT, TOP SOIL (PER ARLINGTON COUNTY DPR STANDARD #029300.5 NOTE 10 AND SOD).
- ▲28 ADJUST EXISTING TRAFFIC JUNCTION BOX TO PROPOSED GRADE.
- ▲28A EXISTING MAST ARM TO REMAIN IN PLACE.
- ▲29 FULL DEPTH SAWCUT AT ALL JOINTS BETWEEN THE EXISTING PAVEMENT & THE PROPOSED WIDENING.
- ▲29A ASPHALT- MILL AND OVERLAY.
- ▲30 INSTALL TL-2 QUADGUARD II OR APPROVED VDOT EQUAL.

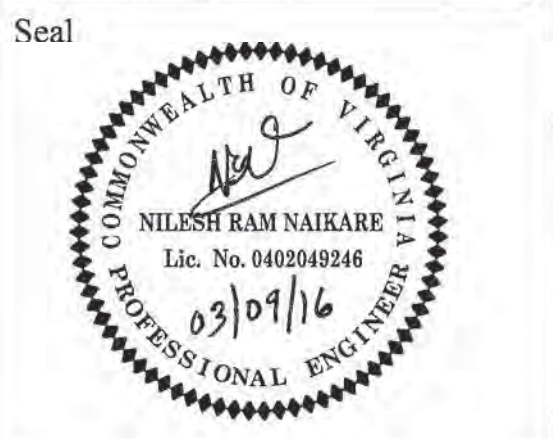
**Top of Curb Profile
Lee Highway & N. Oak Street
(North West Corner - CR-7)**



**DETAIL A-A
TL-2 QUADGUARD II OR APPROVED VDOT EQUAL
SCALE: 1" = 5'**



"As-Built" Drawings Prepared by:
Kendall Consulting, Inc.
Land Surveying & Land Planning
P. O. Box 1569 - Fairfax, Virginia 22038
Ph: (703) 591-1157 - Fax: (631) 876-6507 - twk.kci@verizon.net

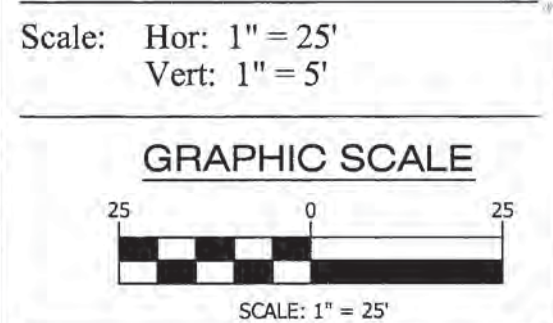


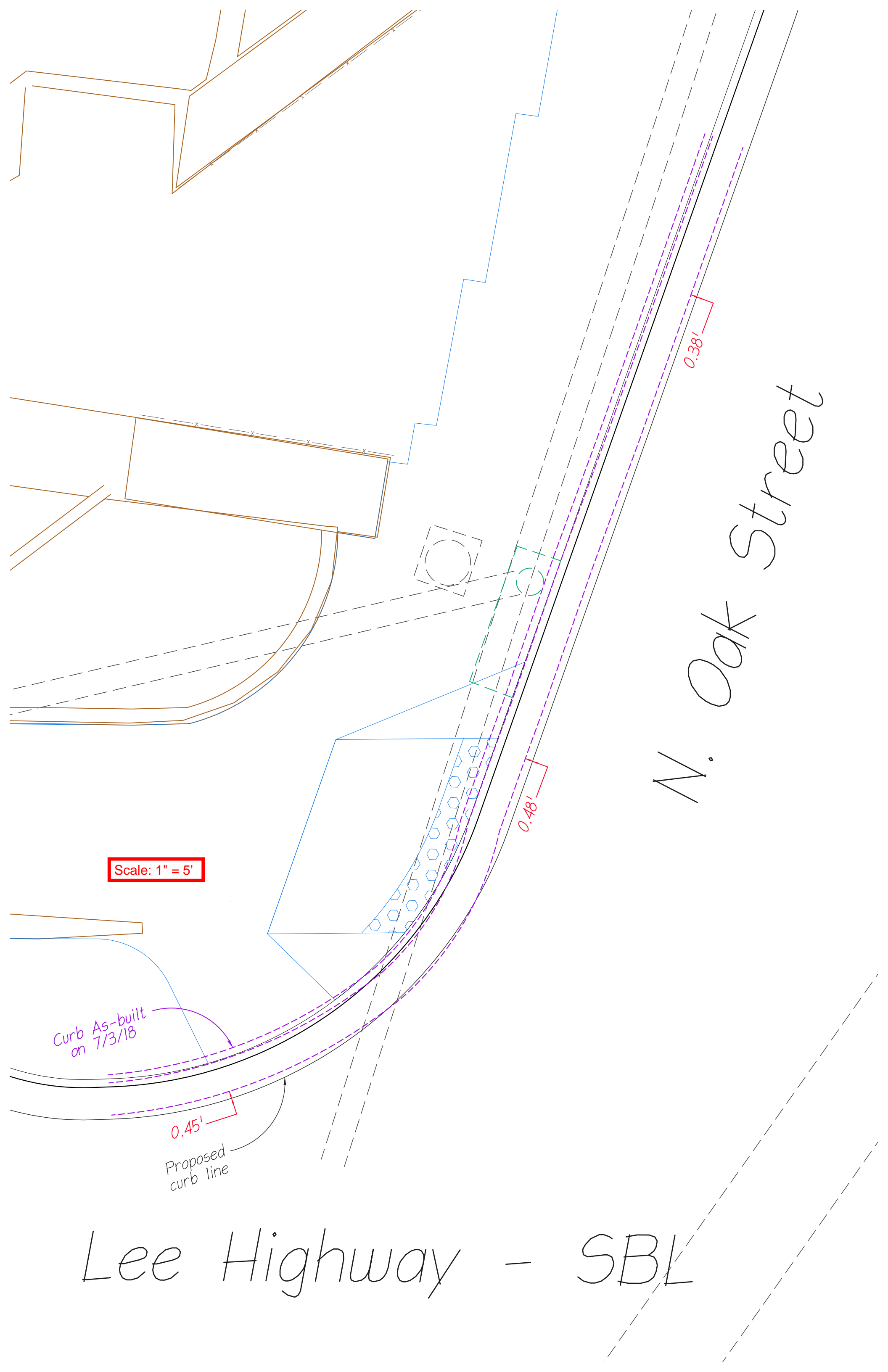
Approvals	Date
DESIGN TEAM SUPERVISOR	03/09/16
ENGINEERING BUREAU CHIEF	03/09/16
WATER, SEWER STREETS BUREAU CHIEF	3/1/16
TRANSPORTATION DIRECTOR	3/1/16

Revisions	Date

Project Name and Location
Custis Trail-Safety Improvements
Plan and Profile N. Oak Street
From N Oak Street
To N. Scott Street
313.45320.B06K.0319.0000

Designed: PB
Drawn: PB
Checked: NN
Miss Utility Transmittal #: 5203-D
Filename: PPLAN_OAK_WITH TL-2_1.dwg
Path: C:\Data\B208\Design\Drawings
Plotted: March 08, 2016
Plotted by: Pbanepali





Scale: 1" = 5'

Curb As-built on 7/3/18

Proposed curb line

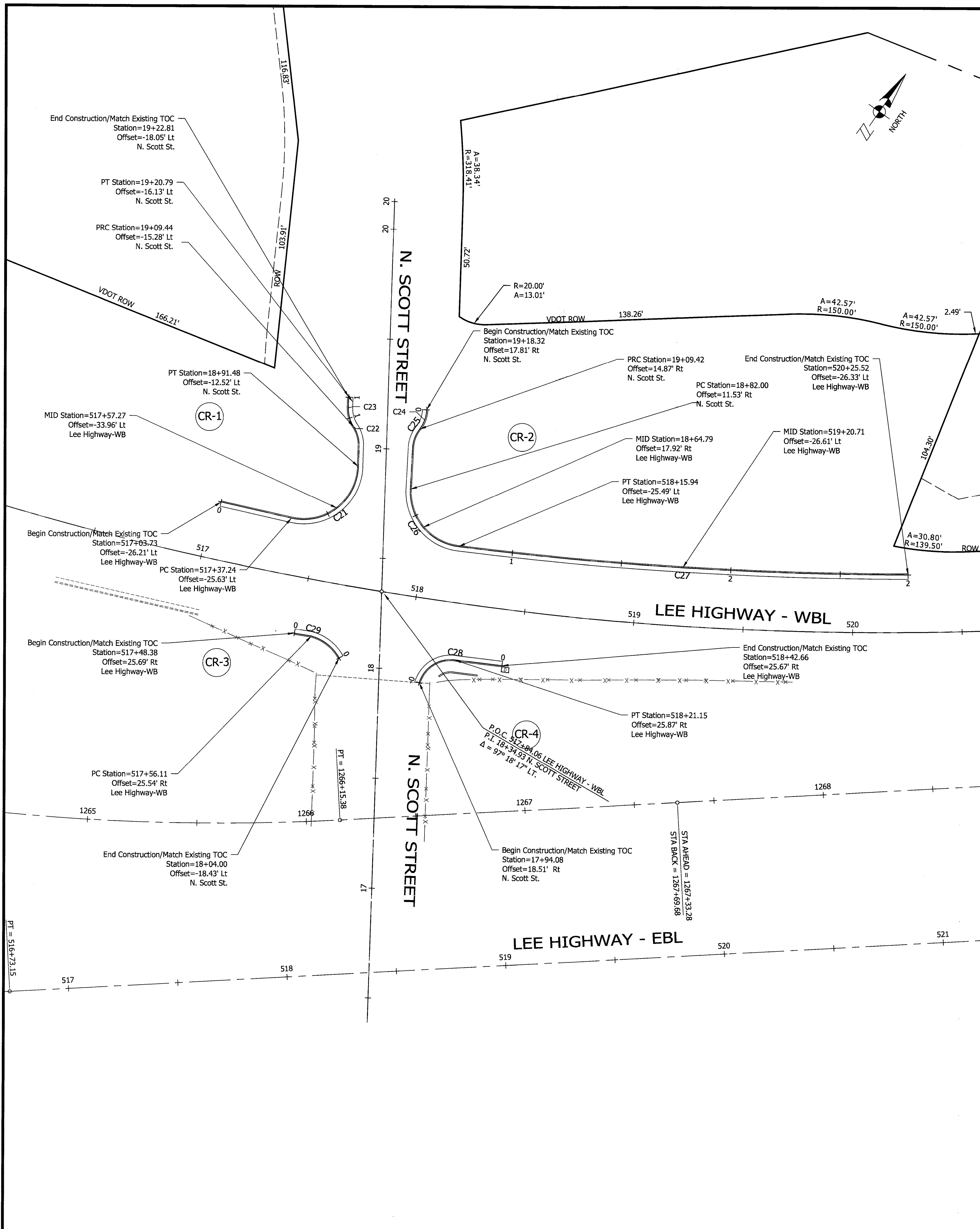
N. Oak Street

Lee Highway - SBL

0.38'

0.48'

0.45'

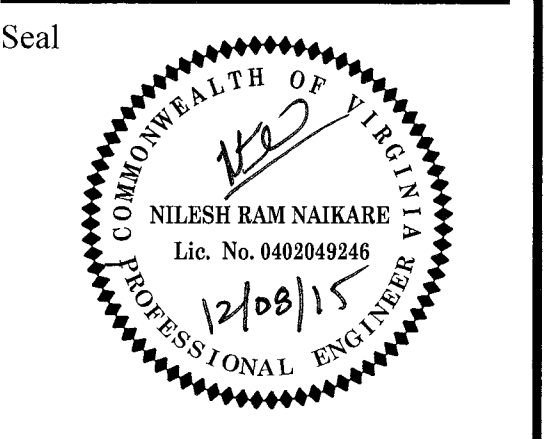


Curve #	Radius	Chord Bearing	Chord Length	Delta (Δ)	Arc Length	Tangent
C21	25.00'	N 22° 10' 53" E	38.57'	100° 57' 23" L.T.	44.05'	30.30'
C22	15.00'	N 45° 55' 59" W	9.09'	35° 16' 23" L.T.	9.23'	4.77'
C23	15.00'	N 45° 55' 19" W	9.09'	35° 17' 44" R.T.	9.24'	4.77'
C24	15.00'	S 9° 57' 22" E	9.37'	36° 23' 46" R.T.	9.53'	4.93'
C25	15.00'	S 9° 57' 22" E	9.37'	36° 23' 46" L.T.	9.53'	4.93'
C26	25.00'	S 70° 09' 09" E	34.16'	86° 10' 53" L.T.	37.60'	23.39'
C27	1729.75'	N 63° 20' 58" E	205.60'	6° 48' 51" R.T.	205.72'	102.98'
C28	15.00'	N 27° 03' 16" E	19.12'	79° 10' 55" R.T.	20.73'	12.41'
C29	20.79'	S 82° 07' 00" E	16.09'	45° 32' 38" R.T.	16.52'	8.73'



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 613
 Arlington, VA 22201
 Phone: 703.228.3529
 Fax: 703.228.3506



Approvals: [Signature] Date: 12/10/15
 DESIGN TEAM SUPERVISOR
 [Signature] 12/10/15
 ENGINEERING BUREAU CHIEF
 [Signature] 12/10/15
 WATER SEWER STREETS BUREAU CHIEF
 [Signature] 12/10/15
 TRANSPORTATION DIRECTOR

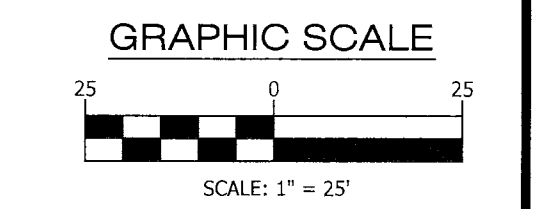
Revisions	Date

Project Name and Location
Custis Trail-Safety Improvements
 Geometric Layout Plan-N. Scott Street
 Safety Improvements Project
 From N. Oak Street
 To N. Scott Street
 313-43520.B06K.0319.0000

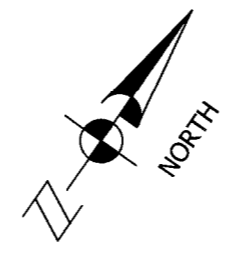
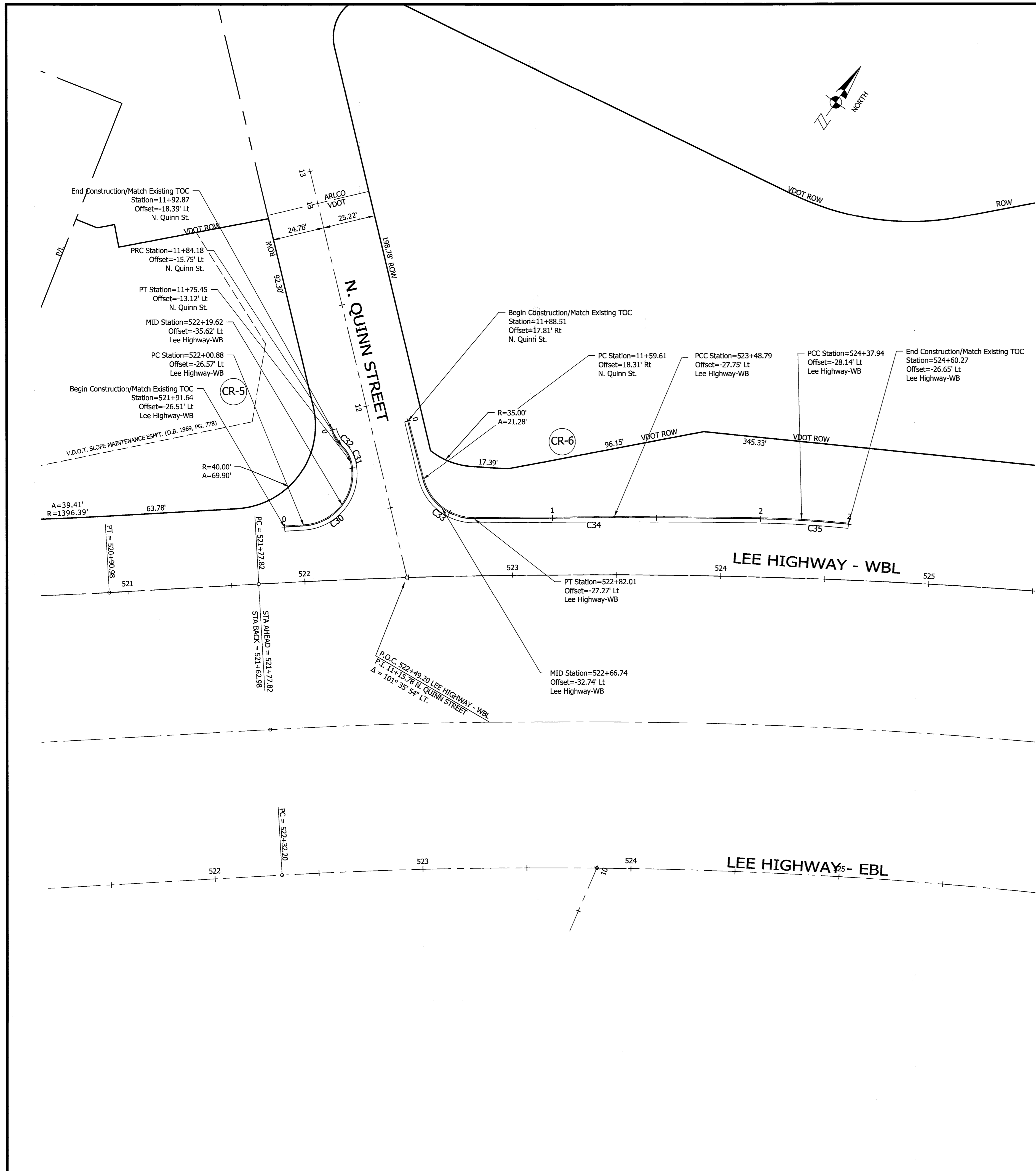
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 Checked: NN
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 Plotted by: Pbanepali

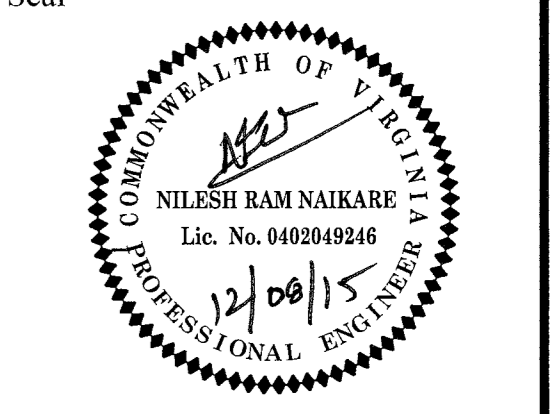
Scale: Hor: 1" = 25'
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Sheet
 11 of 44



Curve #	Radius	Chord Bearing	Chord Length	Delta (Δ)	Arc Length	Tangent
C30	25.00'	N 7° 04' 56" E	38.10'	99° 16' 04" L.T.	43.31'	29.41'
C31	14.99'	N 60° 12' 05" W	9.12'	35° 24' 43" L.T.	9.26'	4.78'
C32	14.99'	N 60° 16' 17" W	9.08'	35° 16' 17" R.T.	9.23'	4.76'
C33	25.00'	S 82° 39' 28" E	30.94'	76° 27' 10" L.T.	33.36'	19.69'
C34	4505.01'	N 59° 58' 23" E	134.82'	1° 42' 53" R.T.	134.83'	67.42'
C35	500.00'	N 63° 25' 08" E	45.16'	5° 10' 36" R.T.	45.17'	22.60'



Approvals Date
 12/08/15
 DESIGN TEAM SUPERVISOR
 ENGINEERING BUREAU CHIEF
 WATER/SEWER STREETS BUREAU CHIEF
 TRANSPORTATION DIRECTOR

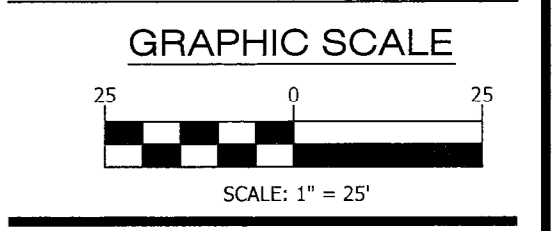
Revisions Date

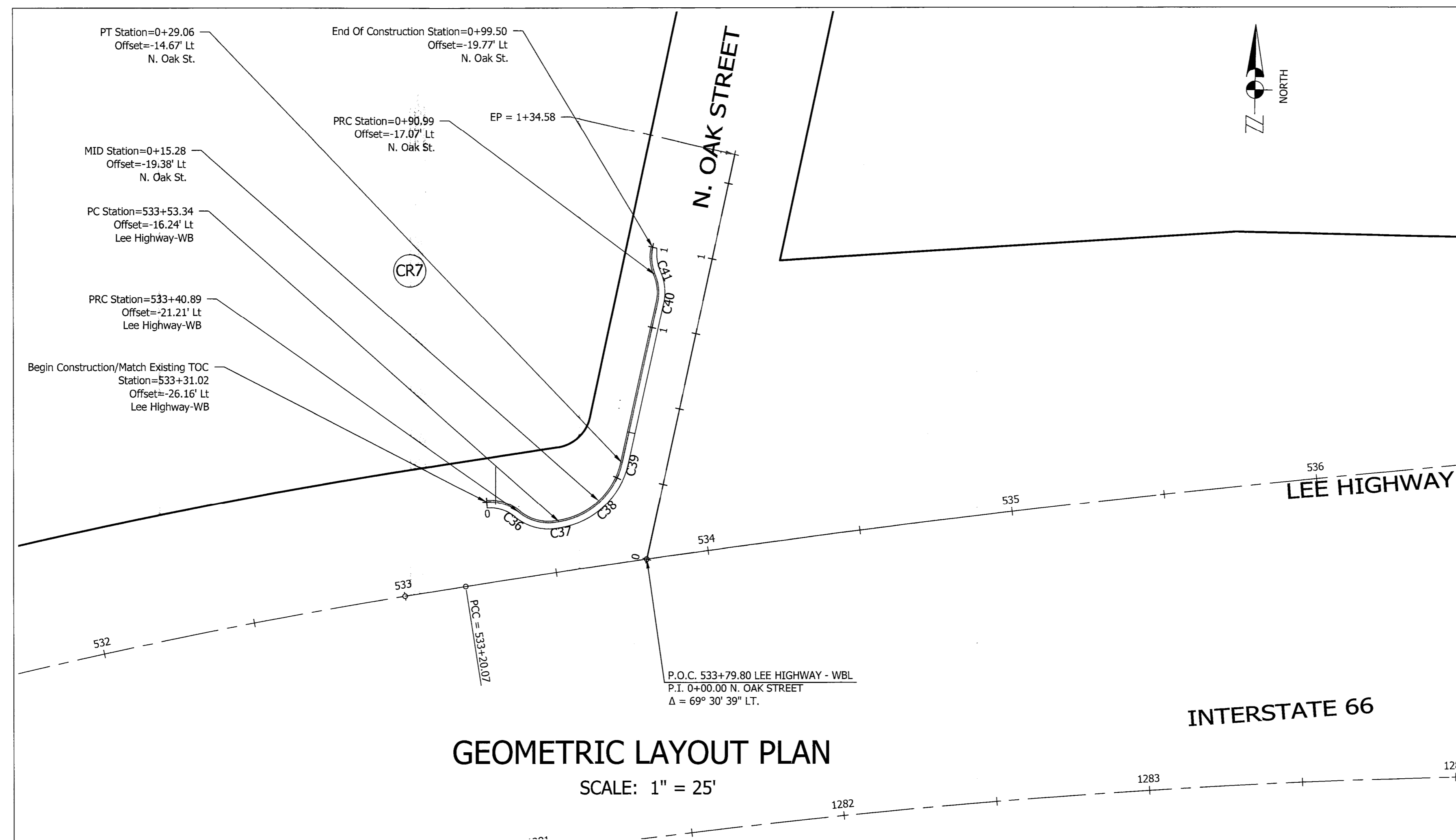
Custis Trail-Safety Improvements
 Geometric Lay Out Plan- N. Quinn Street
 Safety Improvements Project
 From N. Oak Street
 To N. Scott Street
 313-455201B06K.0319.0000

Designed: PB
 Drawn: PB
 Checked: NN
 Miss Utility Transmittal #: 5203-D

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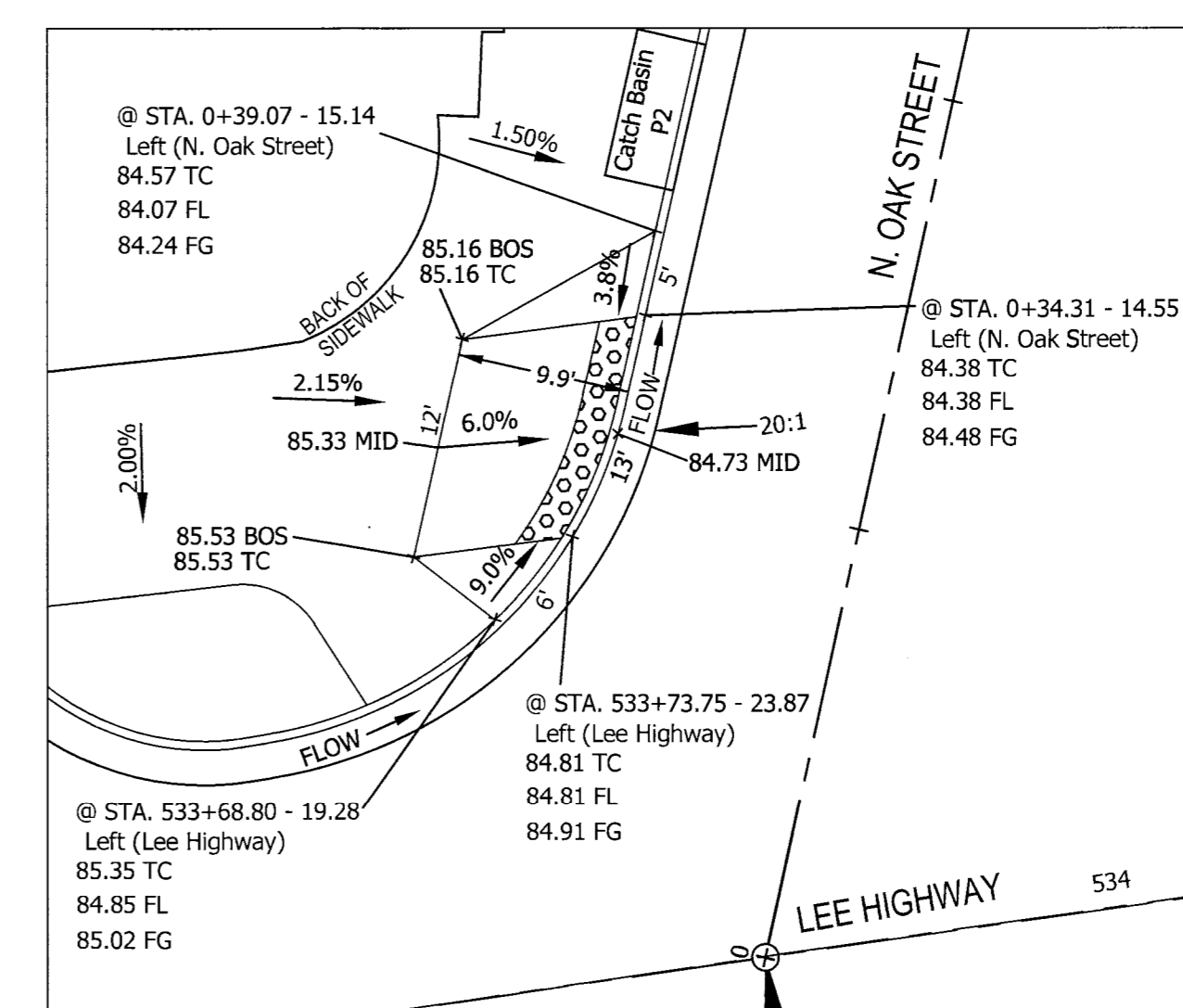
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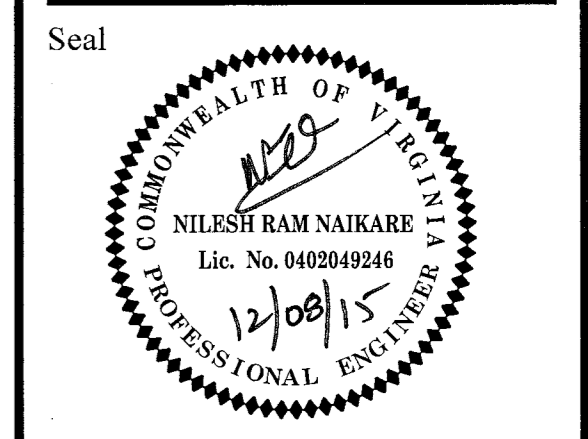
GEOMETRIC LAYOUT PLAN
SCALE: 1" = 25'

Curve Table						
Curve #	Radius	Chord Bearing	Chord Length	Delta (Δ)	Arc Length	Tangent
C36	15.00'	S 74° 36' 10" E	12.30'	48° 24' 36" RT.	12.67'	6.74'
C37	25.00'	N 46° 55' 03" E	28.16'	68° 32' 58" LT.	29.91'	17.04'
C38	25.00'	N 46° 55' 03" E	28.16'	68° 32' 58" LT.	29.91'	17.04'
C39	25.00'	N 46° 55' 03" E	28.16'	68° 32' 58" LT.	29.91'	17.04'
C40	15.00'	N 4° 56' 35" W	9.06'	35° 10' 19" LT.	9.21'	4.75'
C41	15.00'	N 5° 09' 53" W	8.95'	34° 43' 43" RT.	9.09'	4.69'



NW Curb Ramps - N. Oak St.
Scale: 1"=10'

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
Engineering & Capital Projects Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

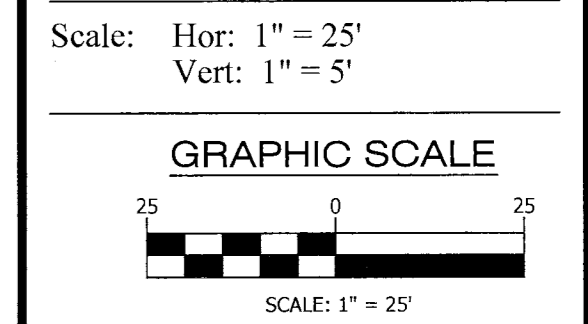


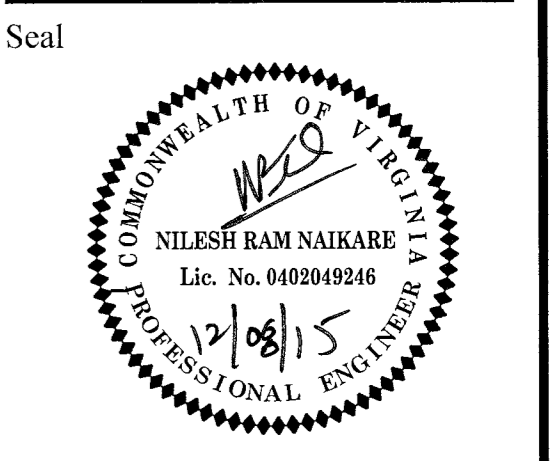
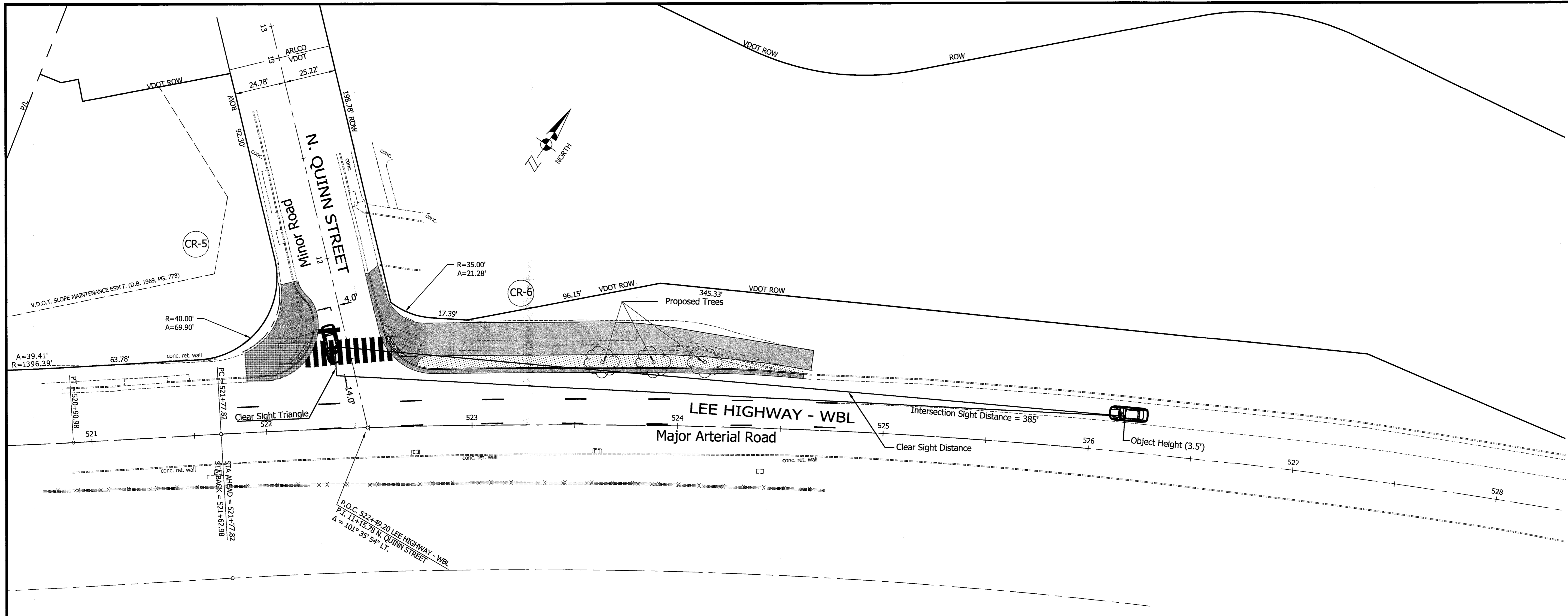
Approvals	Date
DESIGN TEAM SUPERVISOR	12/08/15
ENGINEERING BUREAU CHIEF	12/08/15
WATER, SEWER STREETS BUREAU CHIEF	12/15/15
TRANSPORTATION DIRECTOR	12/15/15

Revisions	Date

Project Name and Location
Custis Trail-Safety Improvements
Geometric Layout Plan-N. Oak Street
From N. Oak Street
To N. Scott Street
313.43520.B06K.0319.0000

Designed: PB
Drawn: PB
Checked: NN
Miss Utility Transmittal #: 5203-D
Filename: PPLAN_OAK_AUGUST 2015.dwg
Path: O:\Data\B06K\Design\Drawings
Plotted: September 17, 2015
Plotted by: Pbanepalli

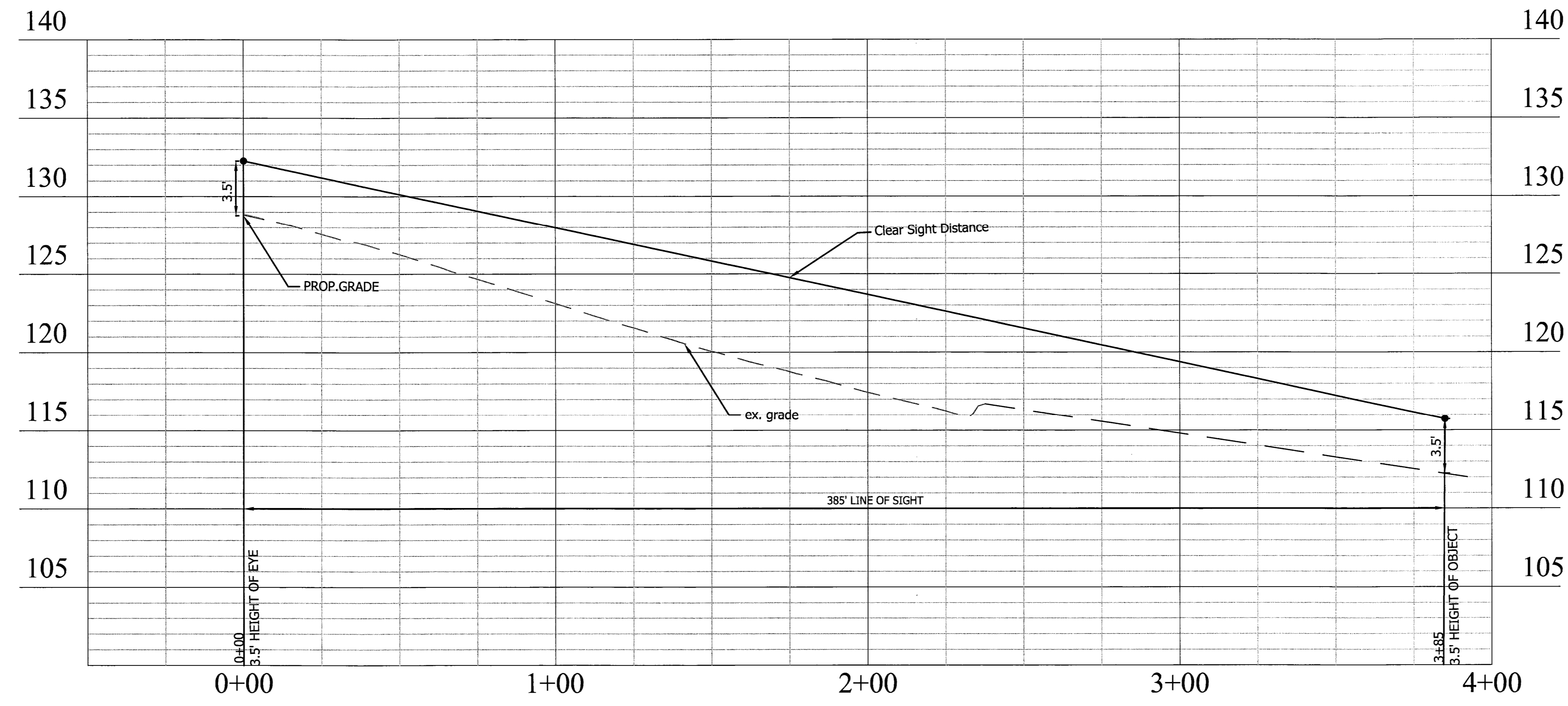




Approvals	Date
<i>[Signature]</i>	12/08/15
DESIGN TEAM SUPERVISOR	
<i>[Signature]</i>	12/08/15
ENGINEERING BUREAU CHIEF	
<i>[Signature]</i>	12/15/15
WATER/SEWER STREETS BUREAU CHIEF	
<i>[Signature]</i>	12/15/15
TRANSPORTATION DIRECTOR	

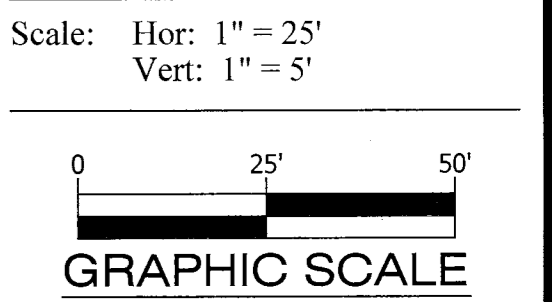
Revisions	Date

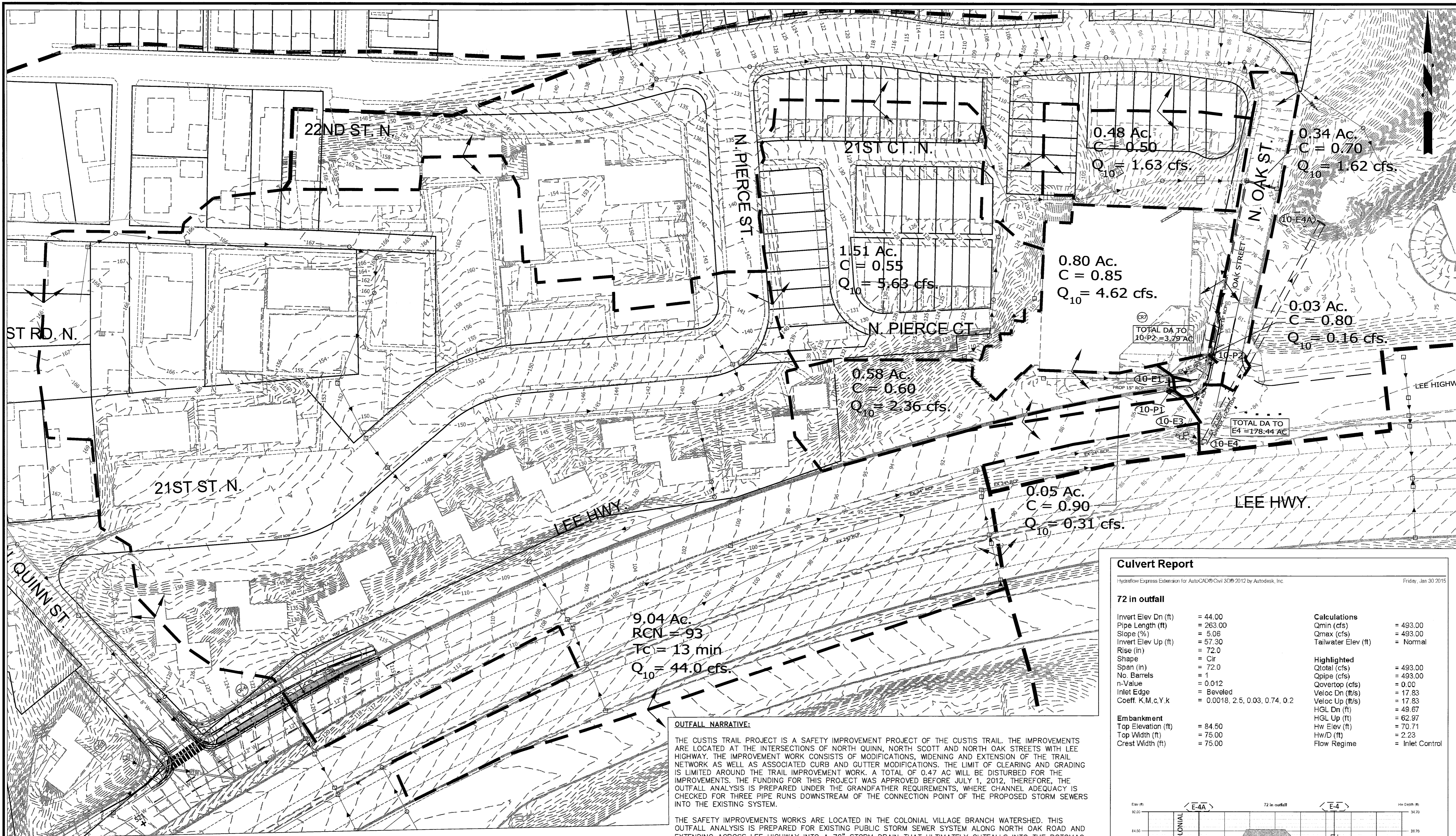
PROFILE - SIGHT DISTANCE



Project Name and Location
Custis Trail-Safety Improvements
Sight Distance - N. Quinn Street
Safety Improvements Project
From N. Oak Street
To N. Scott Street
313.43520.80606.0319.0000

Designed: PB
Drawn: PB
Checked: NN
Miss Utility Transmittal #: 5203-1D
Filename: PPLAN_90 August.dwg
Path: C:\Data\808\Design\Drawings
Plotted: September 17, 2015
Plotted by: Phanepali





OUTFALL NARRATIVE:

THE CUSTIS TRAIL PROJECT IS A SAFETY IMPROVEMENT PROJECT OF THE CUSTIS TRAIL. THE IMPROVEMENTS ARE LOCATED AT THE INTERSECTIONS OF NORTH QUINN, NORTH SCOTT AND NORTH OAK STREETS WITH LEE HIGHWAY. THE IMPROVEMENT WORK CONSISTS OF MODIFICATIONS, WIDENING AND EXTENSION OF THE TRAIL NETWORK AS WELL AS ASSOCIATED CURB AND GUTTER MODIFICATIONS. THE LIMIT OF CLEARING AND GRADING IS LIMITED AROUND THE TRAIL IMPROVEMENT WORK. A TOTAL OF 0.47 AC WILL BE DISTURBED FOR THE IMPROVEMENTS. THE FUNDING FOR THIS PROJECT WAS APPROVED BEFORE JULY 1, 2012. THEREFORE, THE OUTFALL ANALYSIS IS PREPARED UNDER THE GRANDFATHER REQUIREMENTS, WHERE CHANNEL ADEQUACY IS CHECKED FOR THREE PIPE RUNS DOWNSTREAM OF THE CONNECTION POINT OF THE PROPOSED STORM SEWERS INTO THE EXISTING SYSTEM.

THE SAFETY IMPROVEMENTS WORKS ARE LOCATED IN THE COLONIAL VILLAGE BRANCH WATERSHED. THIS OUTFALL ANALYSIS IS PREPARED FOR EXISTING PUBLIC STORM SEWER SYSTEM ALONG NORTH OAK ROAD AND EXTENDING ACROSS LEE HIGHWAY INTO A 72" STORM DRAIN THAT ULTIMATELY OUTFALLS INTO THE POTOMAC VIA COLONIAL VILLAGE BRANCH.

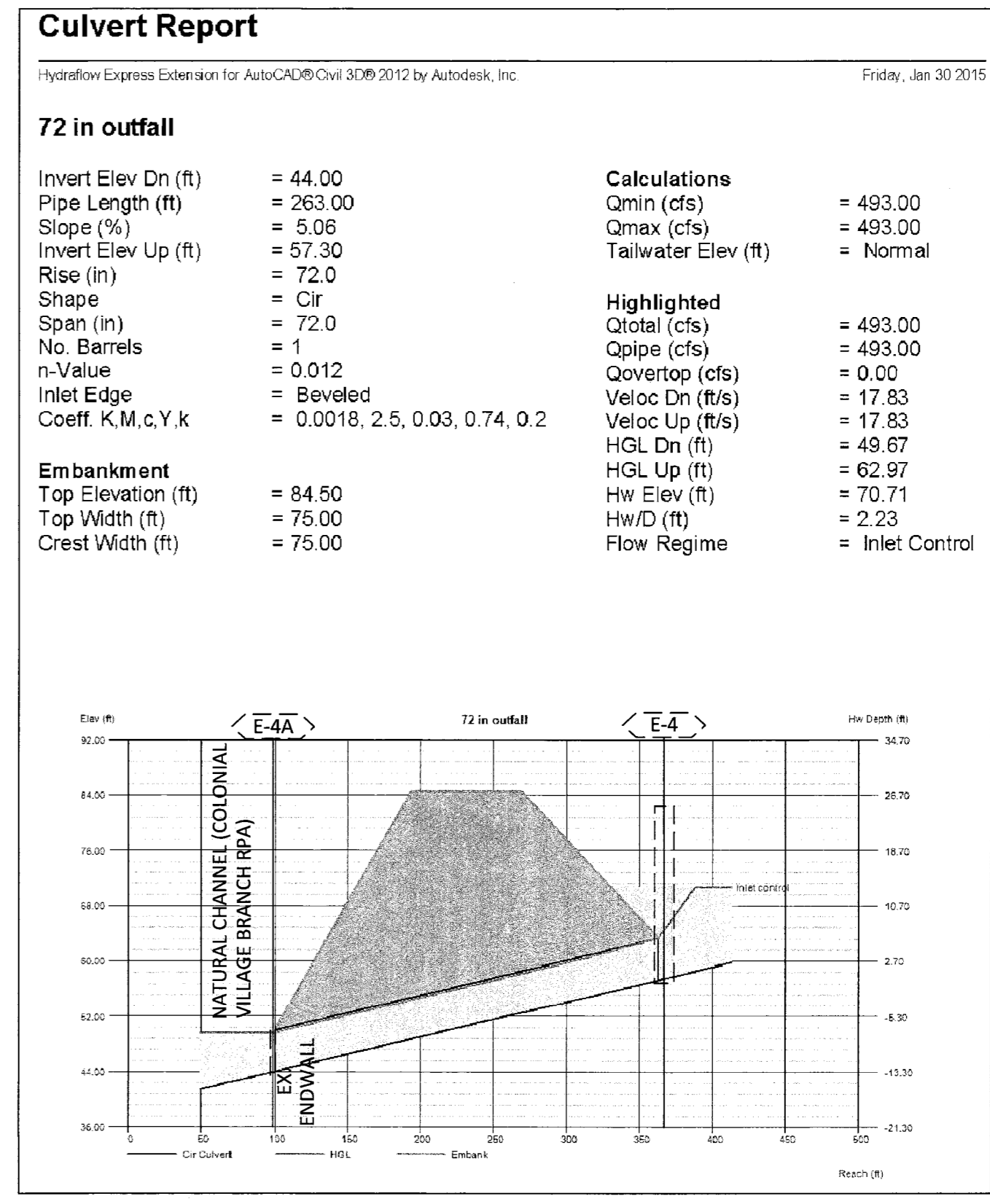
THE PROJECT PROPOSES NEW STORM STRUCTURE 10-P1 WITHIN THE ROW OF LEE HIGHWAY, THIS NEW STRUCTURE TIES INTO AN EXISTING STORM STRUCTURE 10-E1 WITH A 15" RCP. FROM THIS POINT ON RUNOFF IS CONVEYED BY A 15" AND 18" PIPES LEADING INTO THE MEDIAN OF LEE HIGHWAY (STRUCTURE 10-E3) WHERE PIPE SIZE CHANGES TO 24" TO OUTFALL INTO STRUCTURE E4 FROM WHERE RUNOFF IS CONVEYED BY A 72" STORM MAIN. THERE IS NO IMPERVIOUS AREA INCREASE AND THE DRAINAGE DIVIDES FOLLOW THE EXISTING DRAINAGE PATTERN.

ALL THE DRAINAGE AREA NORTH OF THE PROPOSED PIPE (3.79AC) DRAINS INTO THE 18" PIPE RUNNING ALONG NORTH OAK ROAD. AT 10-E4 RUNOFF FROM A TOTAL OF 9.04 AC OF DRAINAGE AREA COMBINES WITH THE SITE DRAINAGE TO ENTER THE EXISTING 24" PIPE IN THE MEDIAN. FROM THE GIS DRAINAGE AREA MAP FOR COLONIAL VILLAGE BRANCH THERE IS 169.4 AC OF ADDITIONAL DRAINAGE AREA COMING INTO THE SYSTEM AT 10-E4.

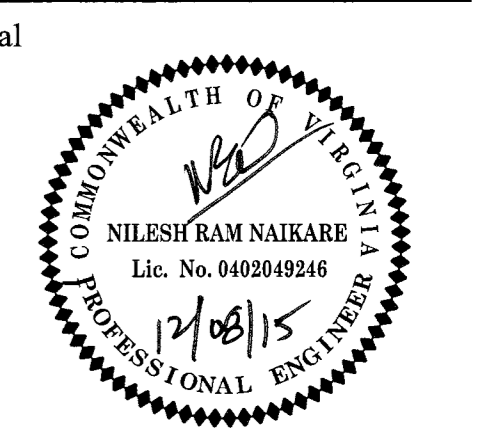
THE OUTFALL ANALYSIS BEGINS AT EXISTING STRUCTURE 10-E4. THE 10 YEAR RUNOFF CONVERGING TO THIS STRUCTURE IS ESTIMATED USING TR-55. THE HEAD AT THE INLET OF THE 72" PIPE AT THIS STRUCTURE IS COMPUTED AND THE ELEVATION THUS OBTAINED IS USED AS A STARTING ELEVATION TO COMPUTE THE HGL OF THE EXISTING 15", 18" AND 24" PIPE RUNS INTO WHICH THE PROPOSED STORM PIPE OUTFALLS.

THE COMPUTATIONS SHOW THAT THE EXISTING 18" PIPES RUNNING ALONG NORTH OAK STREET AND THE 24" PIPE IN THE MEDIAN OF LEE HIGHWAY ARE UNDER PRESSURIZED FLOW CONDITION. HOWEVER, THE 10 YEAR HYDRAULIC GRADE LINE IS MORE THAN 2 FEET BELOW THE TOP OF THE EXISTING AND PROPOSED STRUCTURES.

THEREFORE, IT IS OUR OPINION THAT THIS SAFETY IMPROVEMENT PROJECT HAS ADEQUATE OUTFALL.



COMPUTATIONS NOTE:
SEE ADDITIONAL COMMUTATIONS ON SHEET 16.



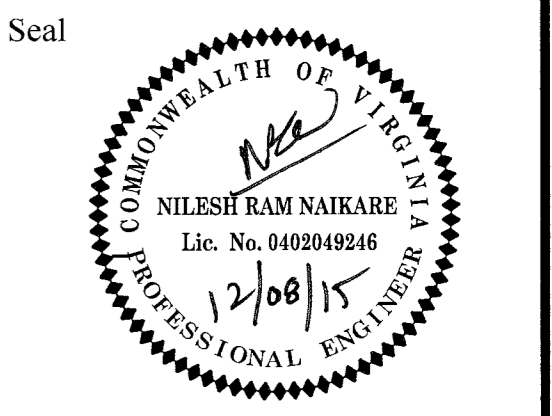
Seal

Approvals	Date
<i>Nilesh Ram Naikare</i>	12/08/15
DESIGN TEAM SUPERVISOR	
<i>Michael Wood</i>	12/8/15
ENGINEERING BUREAU CHIEF	
<i>Oliver King</i>	12/15/15
WATER SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	
Revisions	Date

Project Name and Location
Custis Trail-Safety Improvements
Storm Drain Drainage Area Map
From N. Oak Street
To N. Scott Street
3113.43320.B06K.0319.0000

Designed: ss
Drawn: ss
Checked: NN
Miss Utility Transmittal #: 5203-D

Filename: Stormdrainage Drainage Area Map.dwg
Path: C:\Data\B06K\Design\Drawings
Plotted: September 17, 2015
Plotted by: sshikur
Scale: Hor: 1" = 50'



Approvals Date
 DESIGN TEAM SUPERVISOR 12/08/15
 ENGINEERING BUREAU CHIEF 12/08/15
 WATER, SEWER, STREETS BUREAU CHIEF 12/08/15
 TRANSPORTATION DIRECTOR 12/08/15

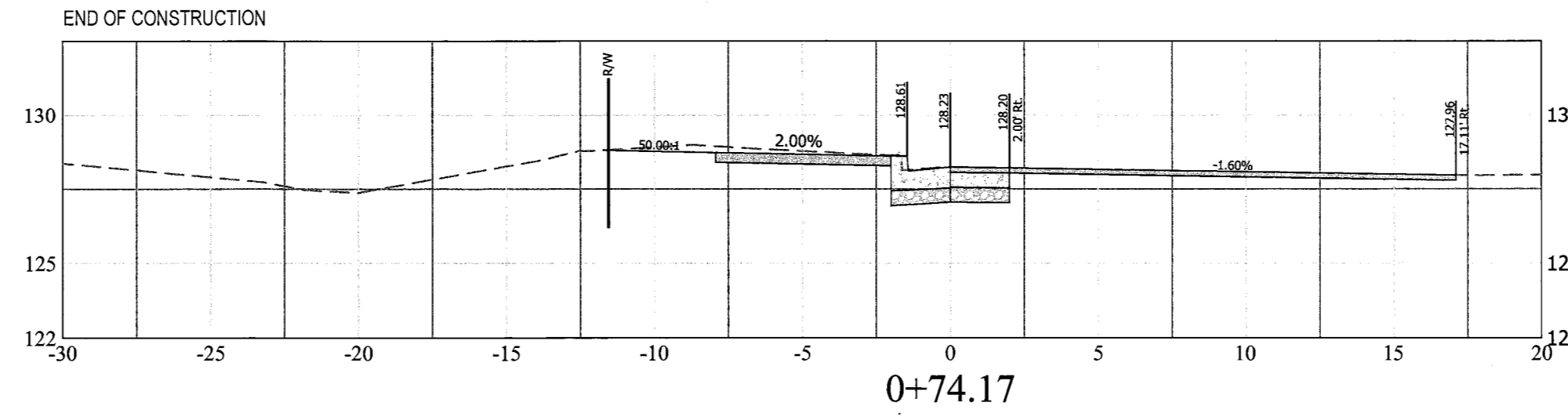
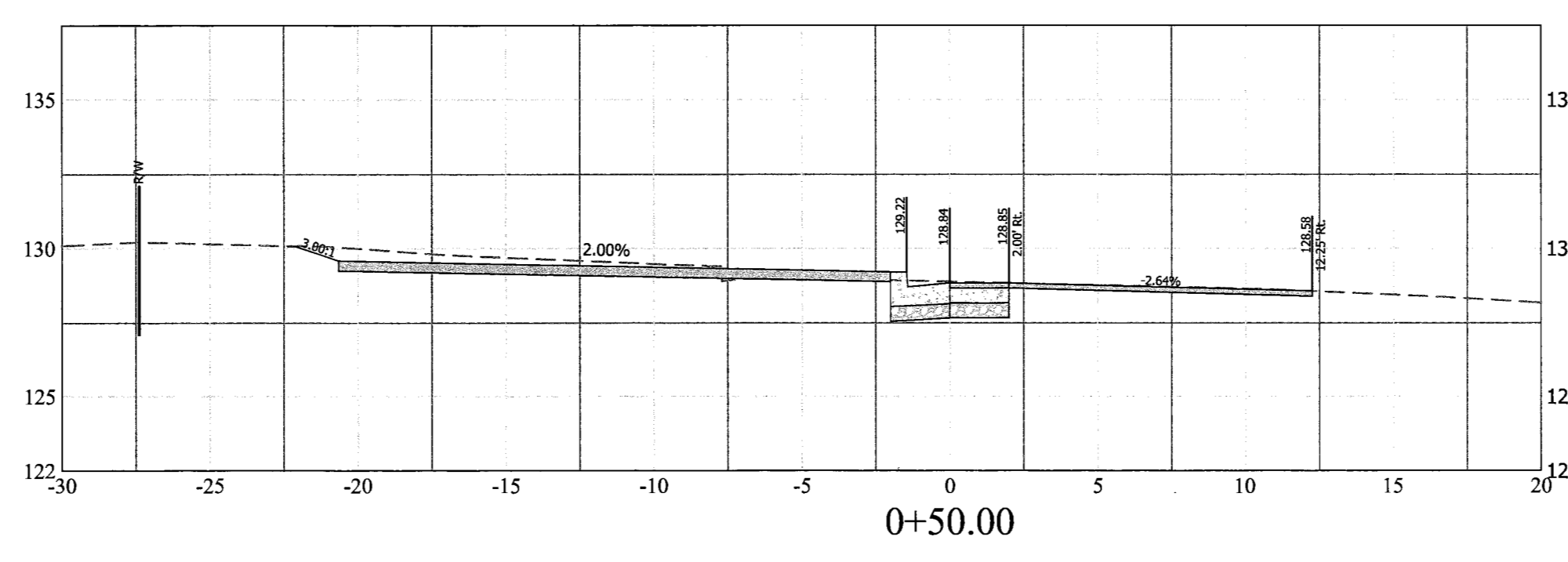
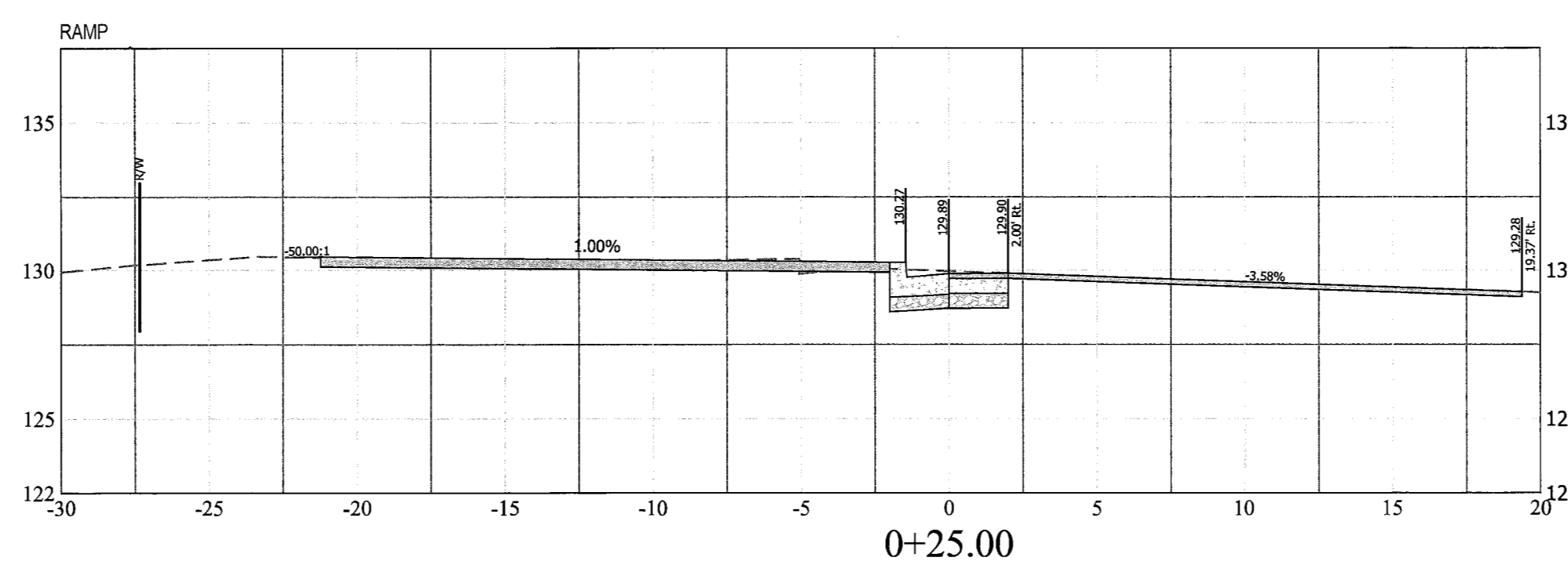
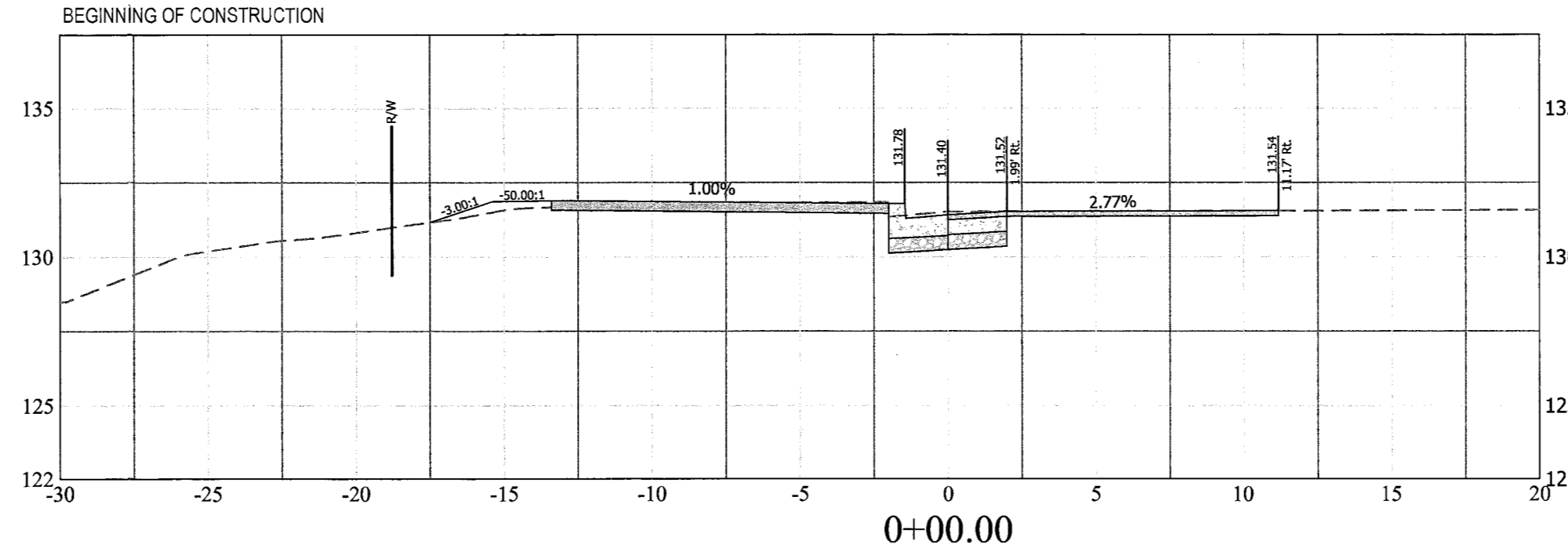
Revisions	Date

Project Name and Location
Custis Trail-Safety Improvements
 X-Sections N. Quinn Street (CR-5 NW Quadrant)
 Safety Improvements Project
 From N. Oak Street
 To N. Scott Street
 313-43520.B06K.0319.0000

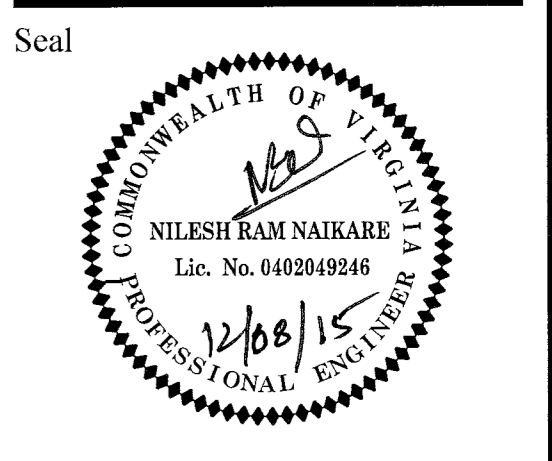
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 Checked: NN
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Filename: PPLAN_90 August.dwg
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 Plotted: September 17, 2015
 Plotted by: Pbanepali

Scale:
 Vert: 1" = 5'



X-SECTIONS BASED ON EOP- N. QUINN STREET (CR-5 NW QUADRANT)



Approvals Date
 NED 12/08/15
 DESIGN TEAM SUPERVISOR
 [Signature] 12/08/15
 ENGINEERING BUREAU CHIEF
 [Signature] 12/05/15
 WATER, SEWER, STREETS BUREAU CHIEF
 TRANSPORTATION DIRECTOR [Signature]

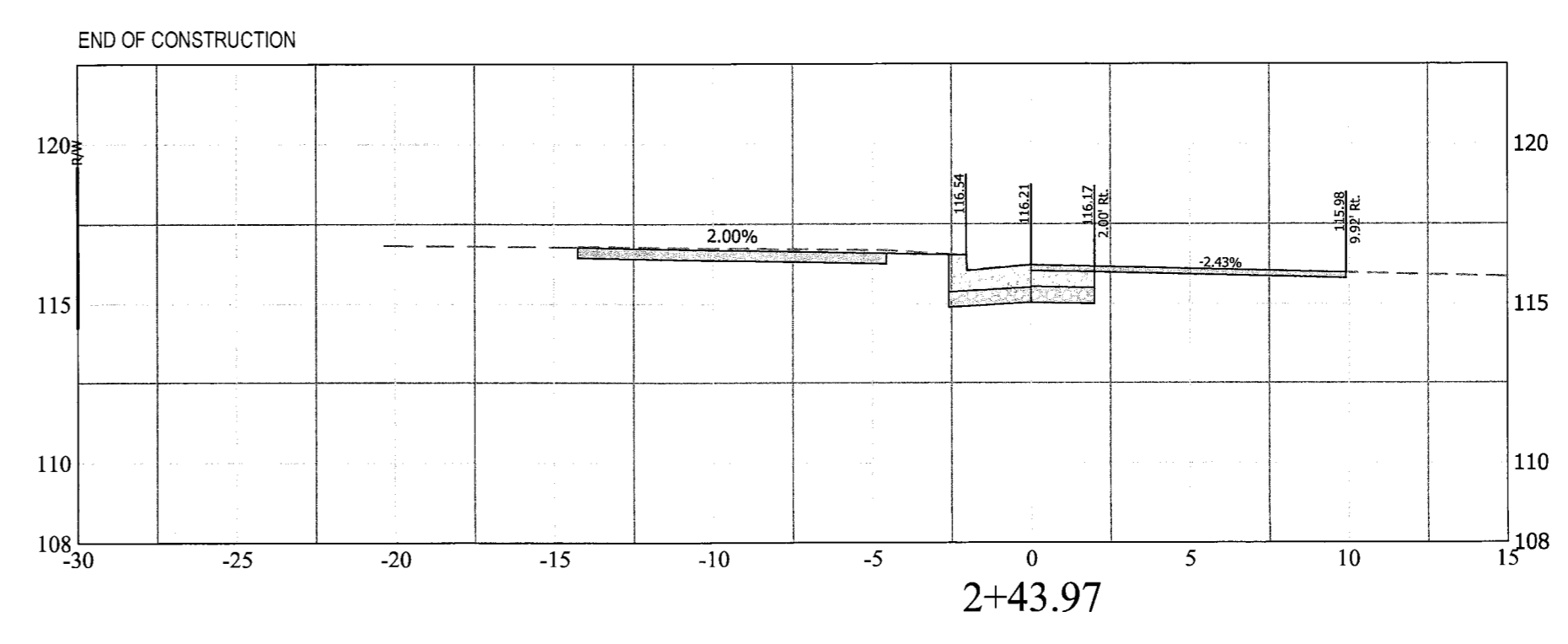
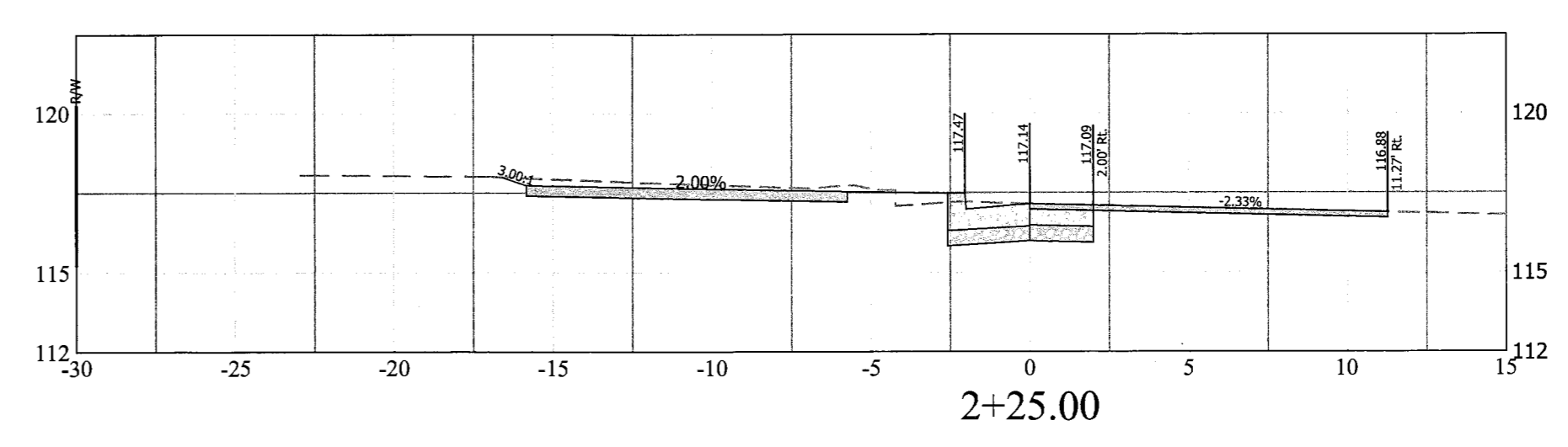
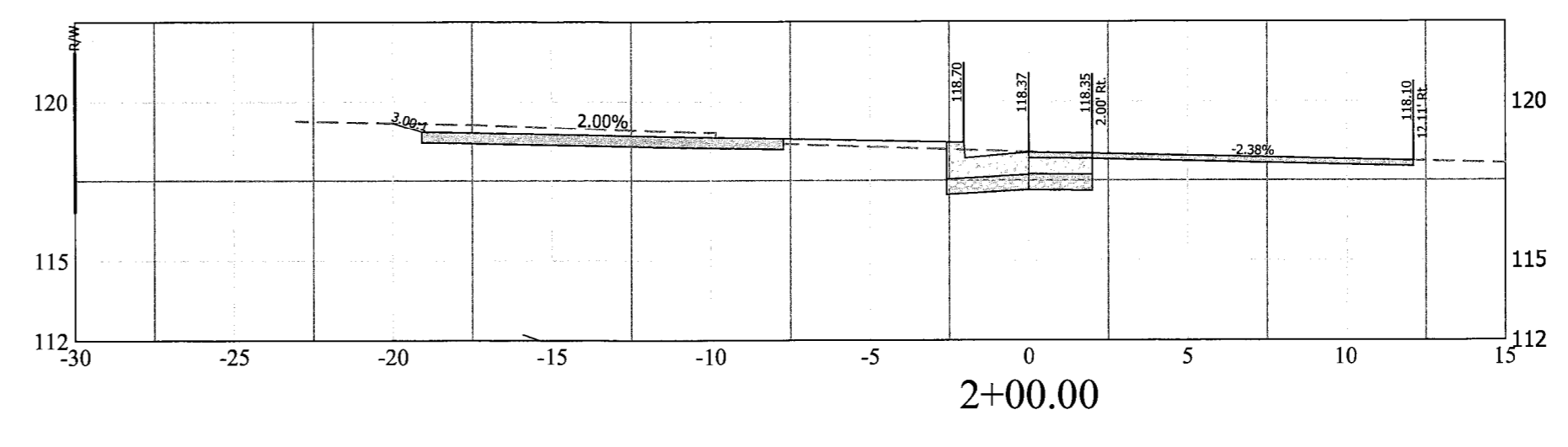
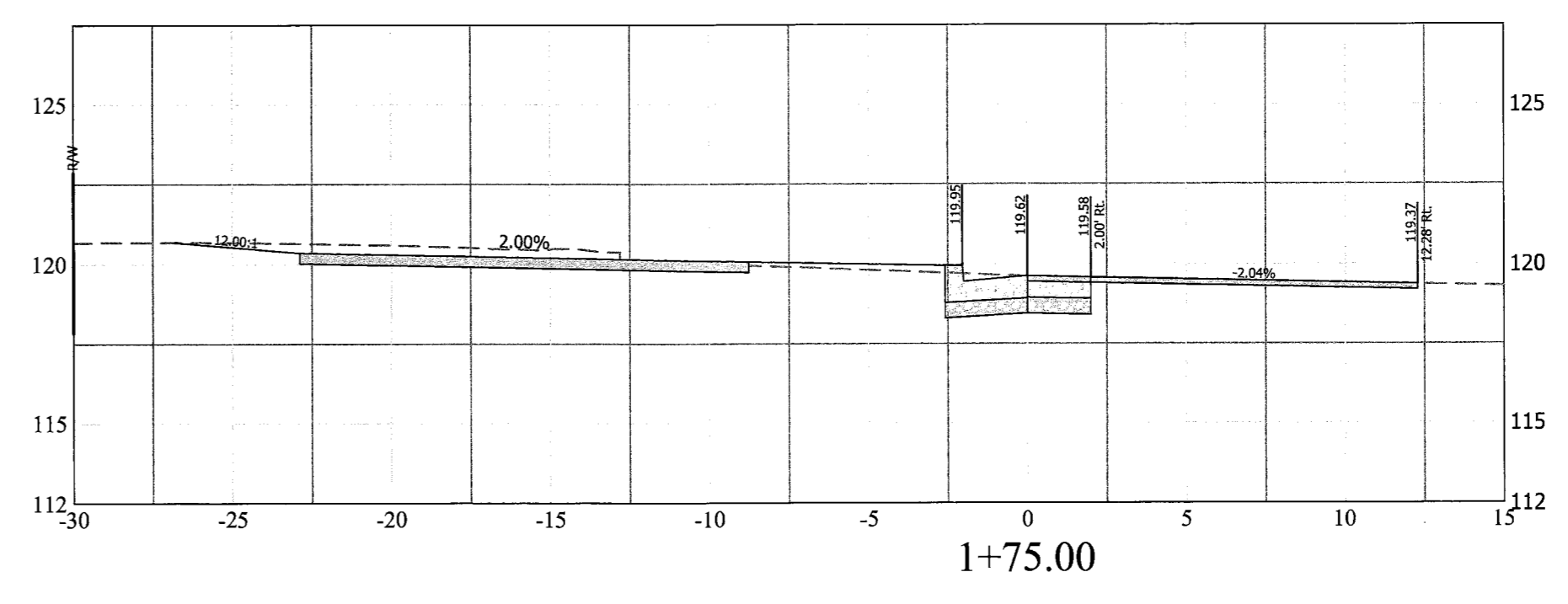
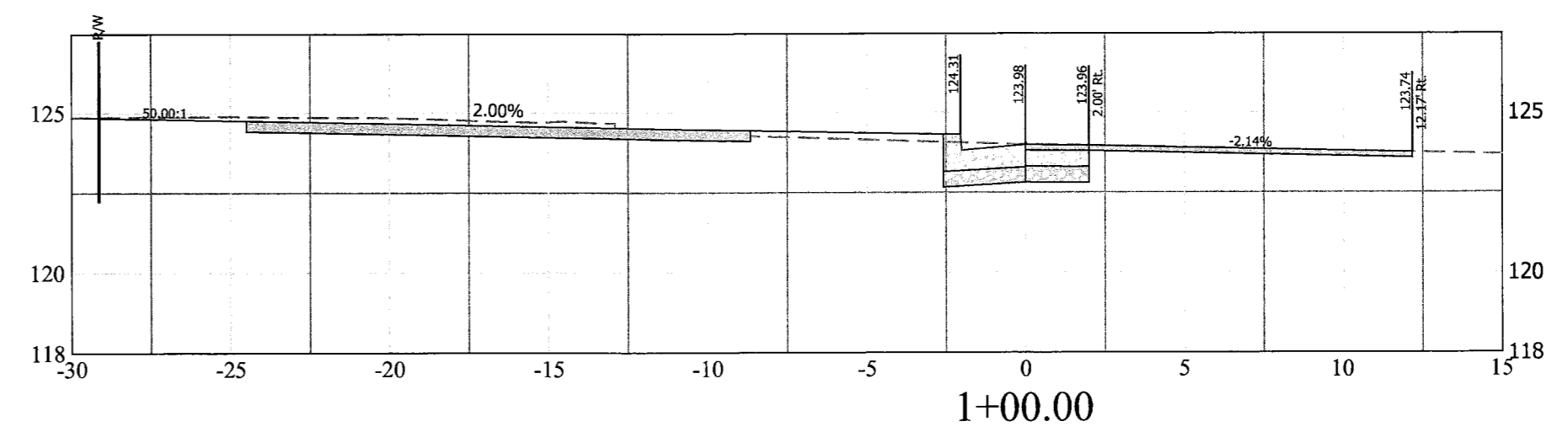
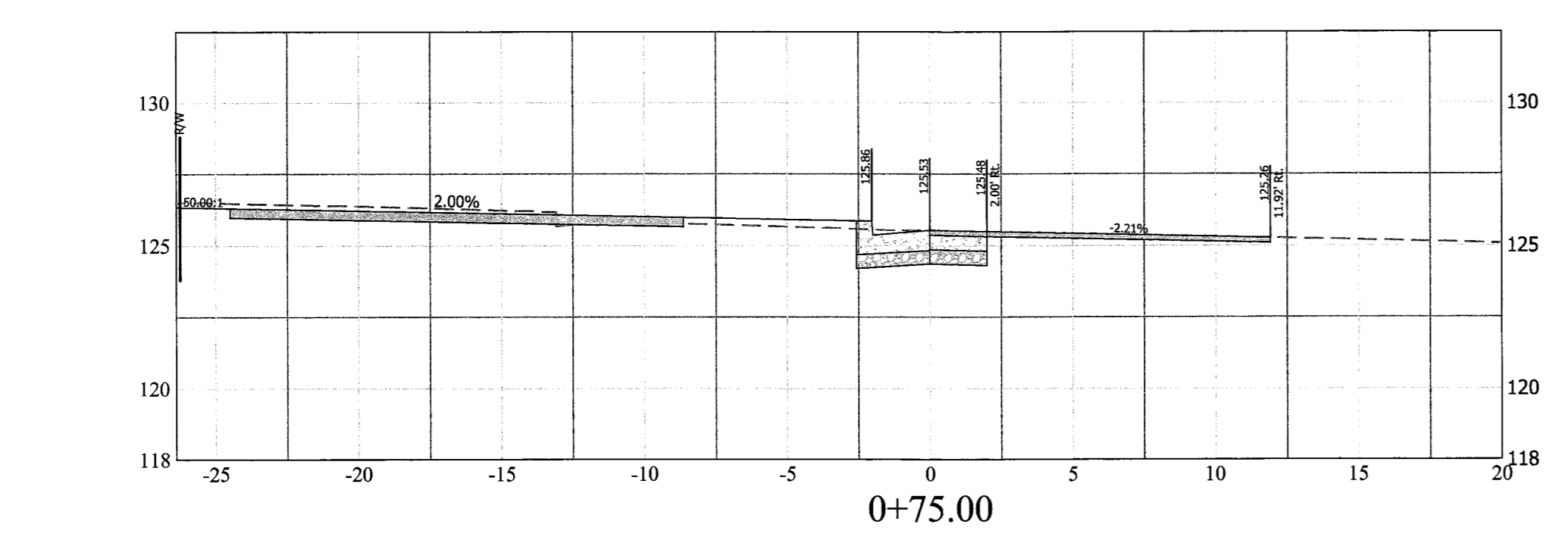
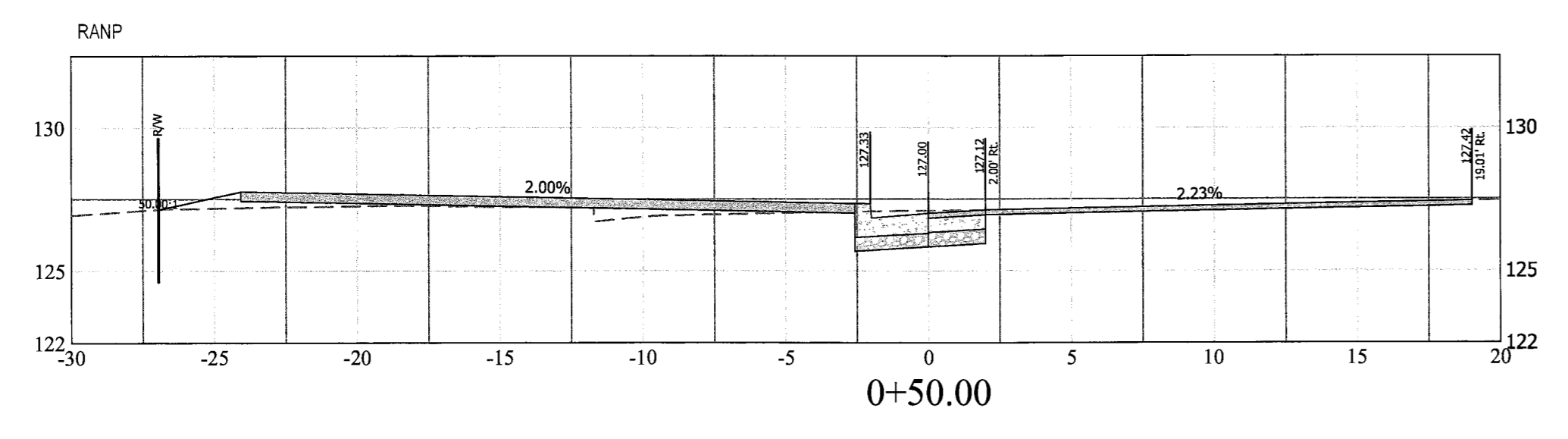
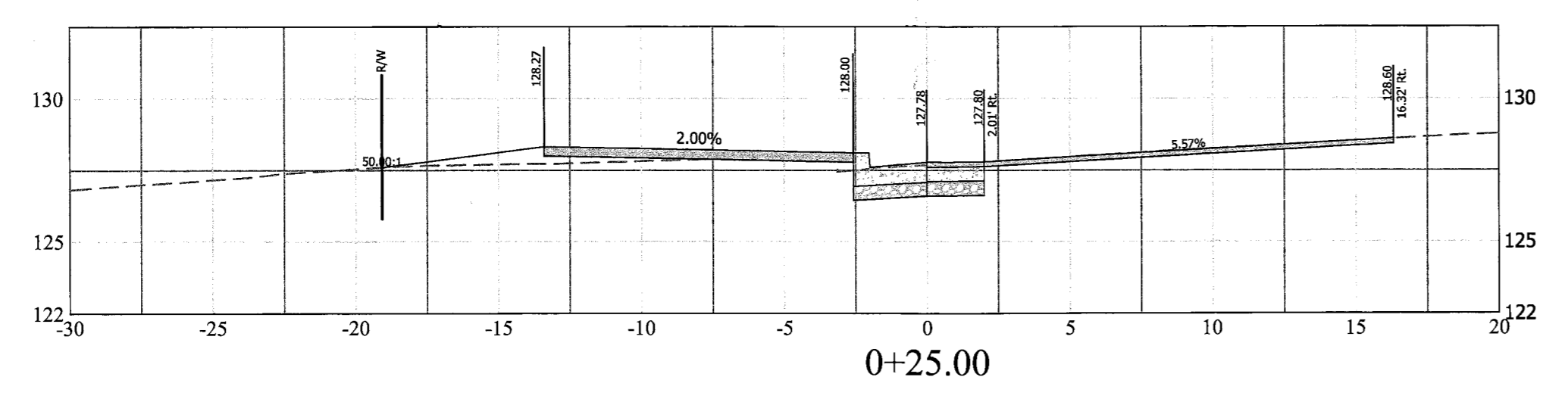
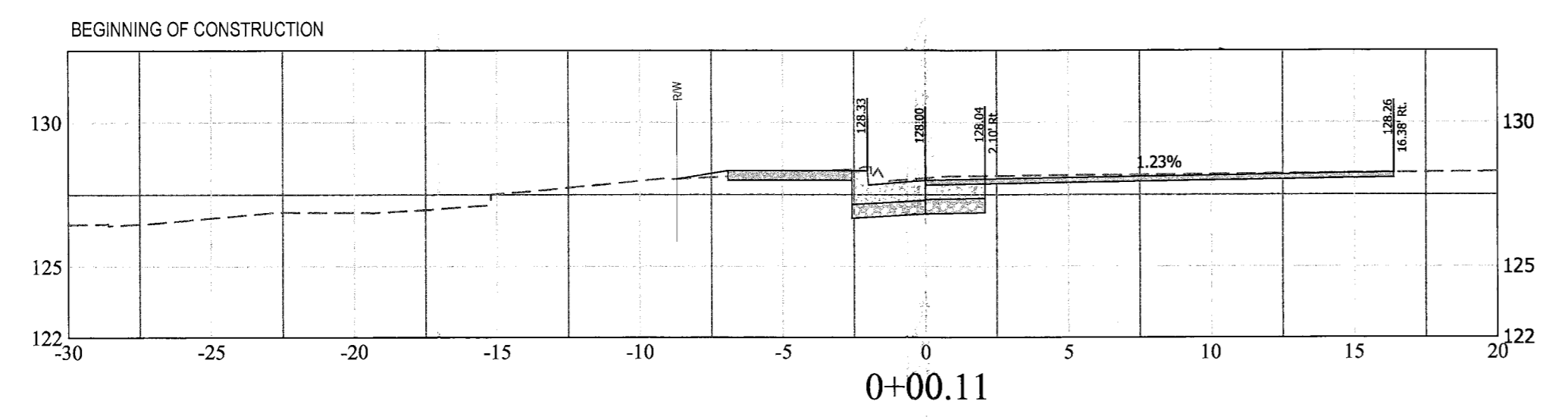
Revisions Date

Project Name and Location
Custis Trail-Safety Improvements
 X-Sections N. Quinn Street (CR-6 NE Quadrant)
 Safety Improvements Project
 From N. Oak Street
 To N. Scott Street
 313.43520.B06K.0319.0000

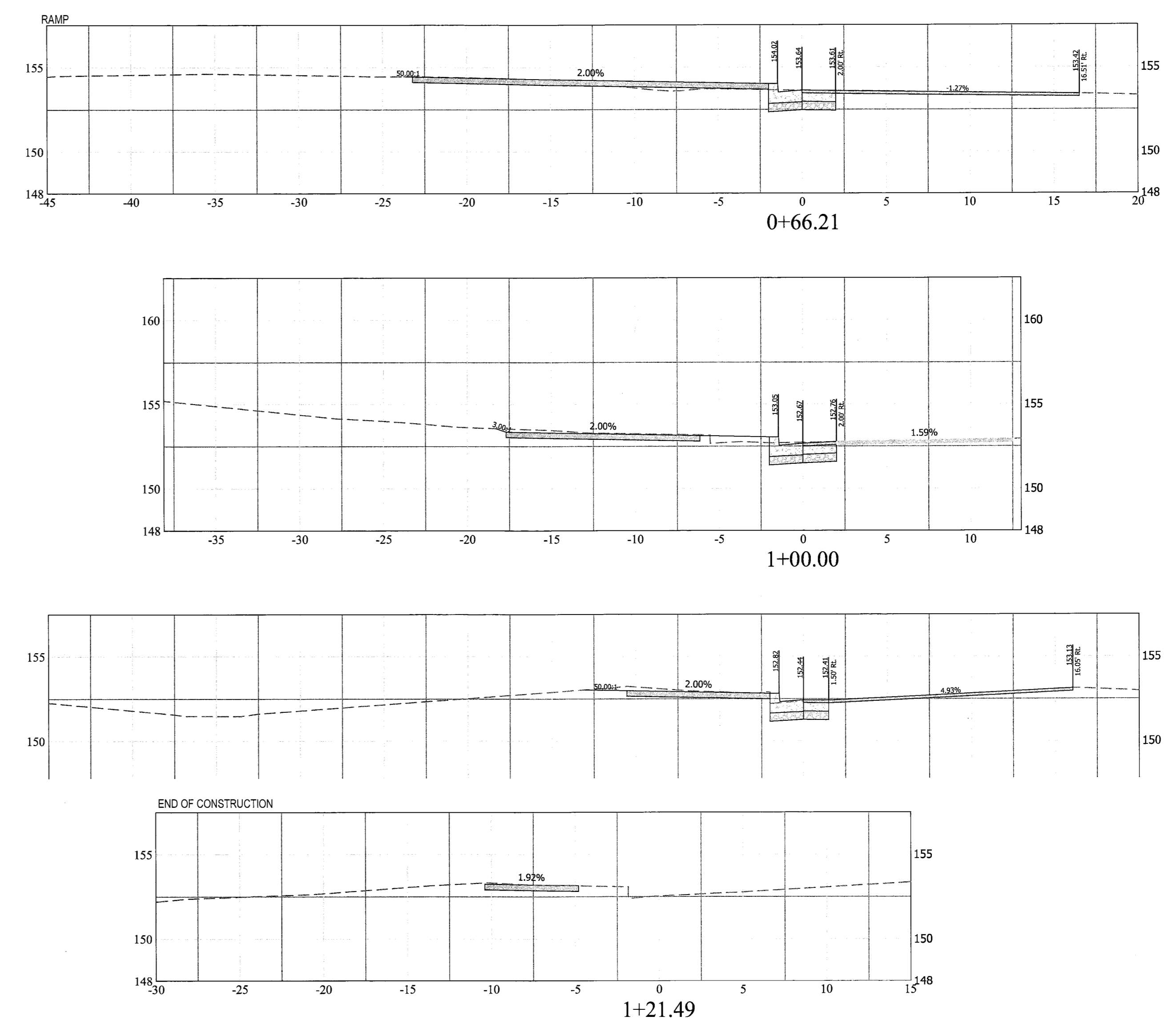
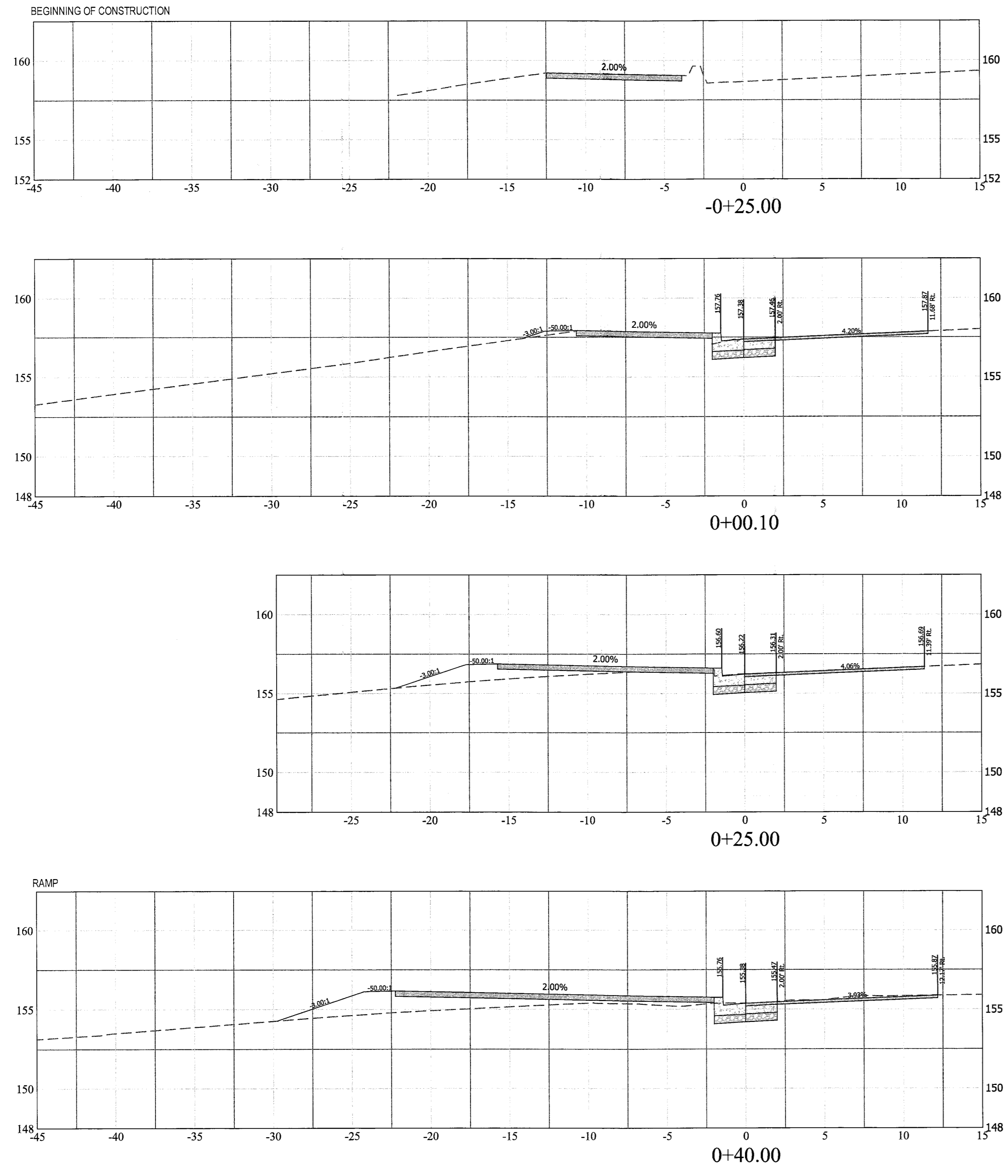
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 Plotted: September 17, 2015
 Plotted by: Pbanepali

Scale: Vert: 1" = 5'



X-SECTIONS BASED ON EOP- N. QUINN STREET (CR-6 NE QUADRANT)



X-SECTIONS BASED ON EOP- N. SCOTT STREET (CR-1 NW QUADRANT)



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606

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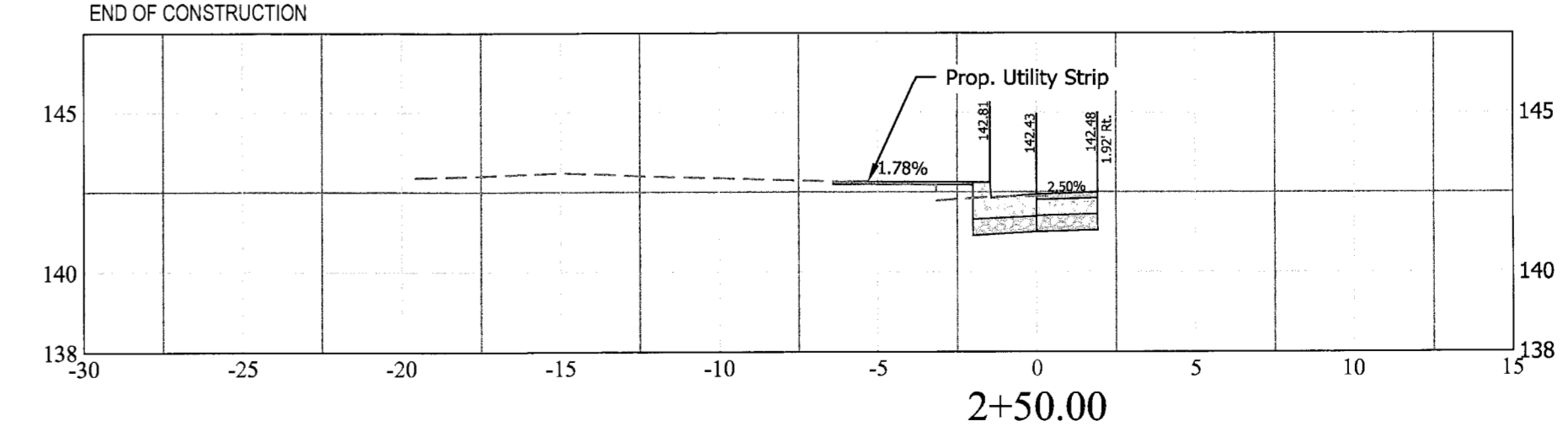
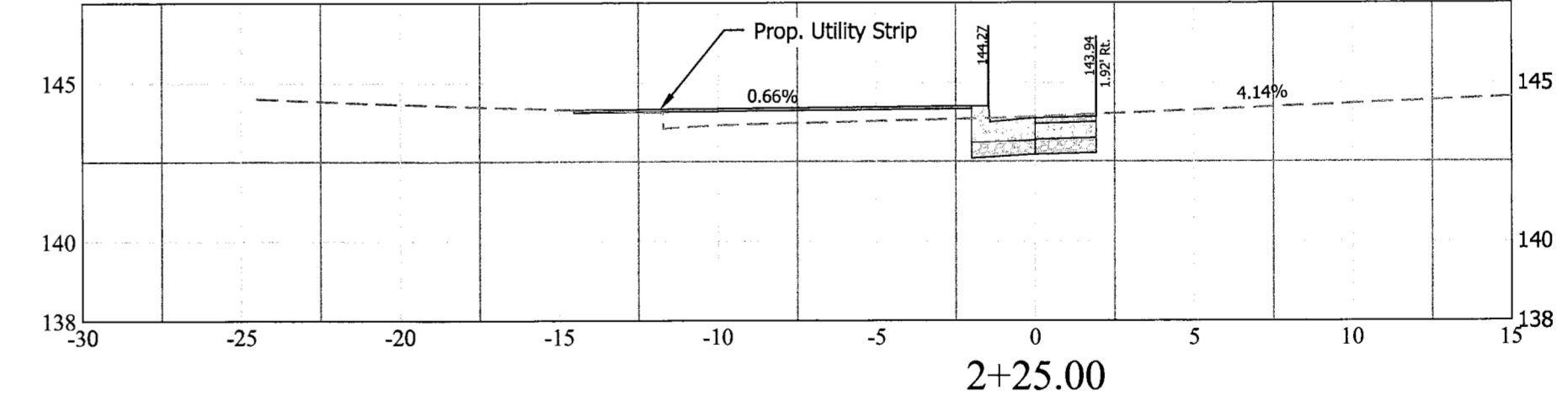
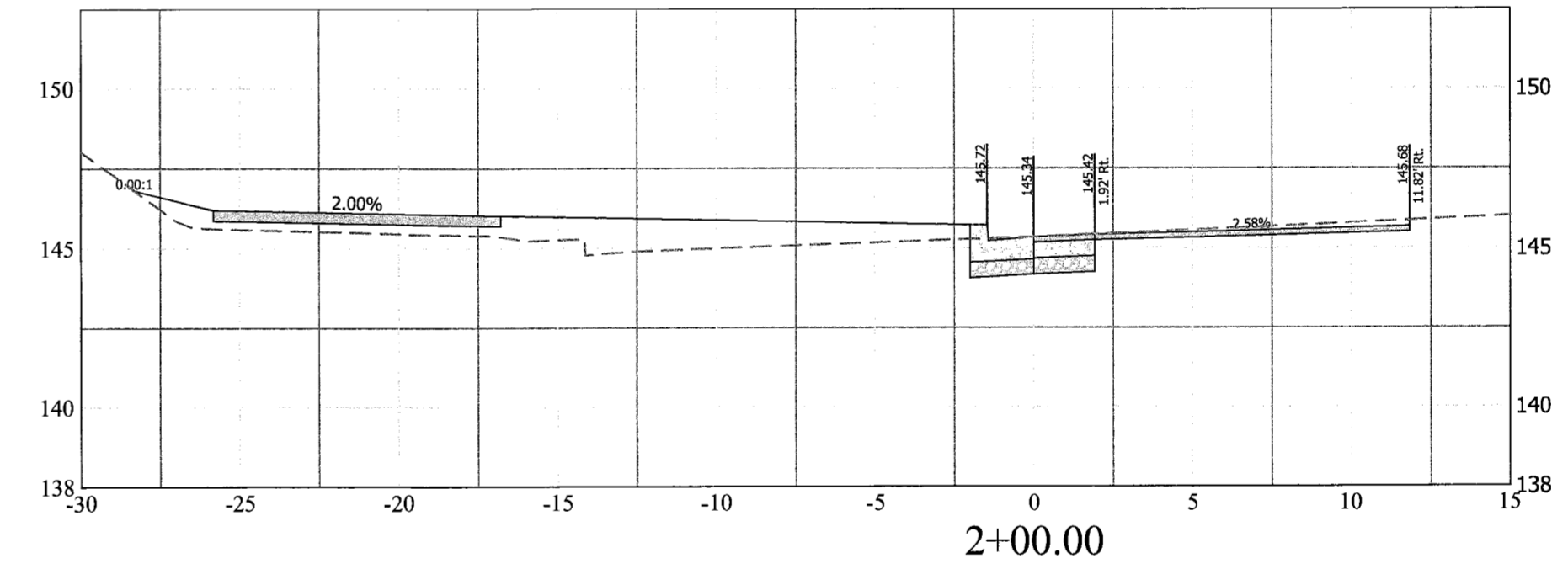
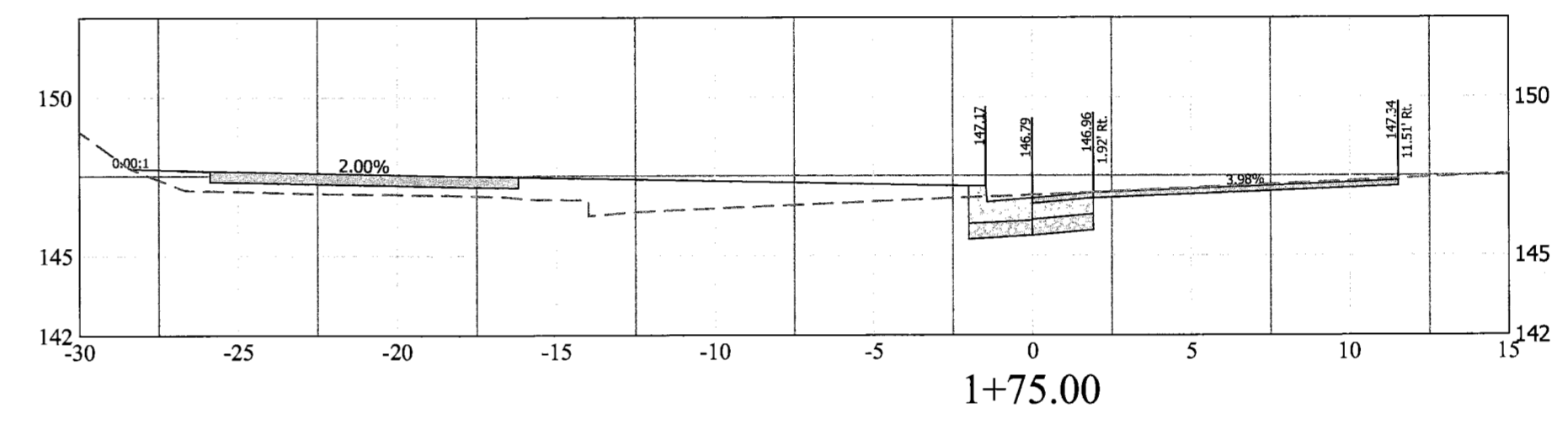
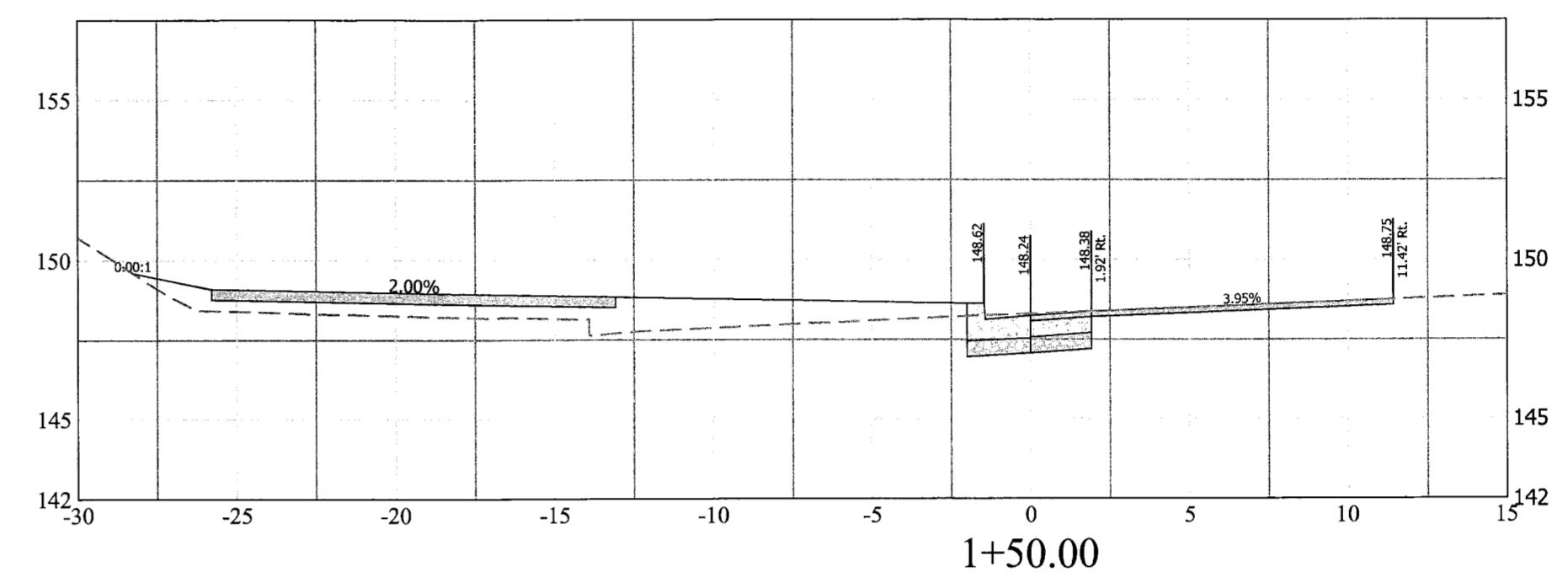
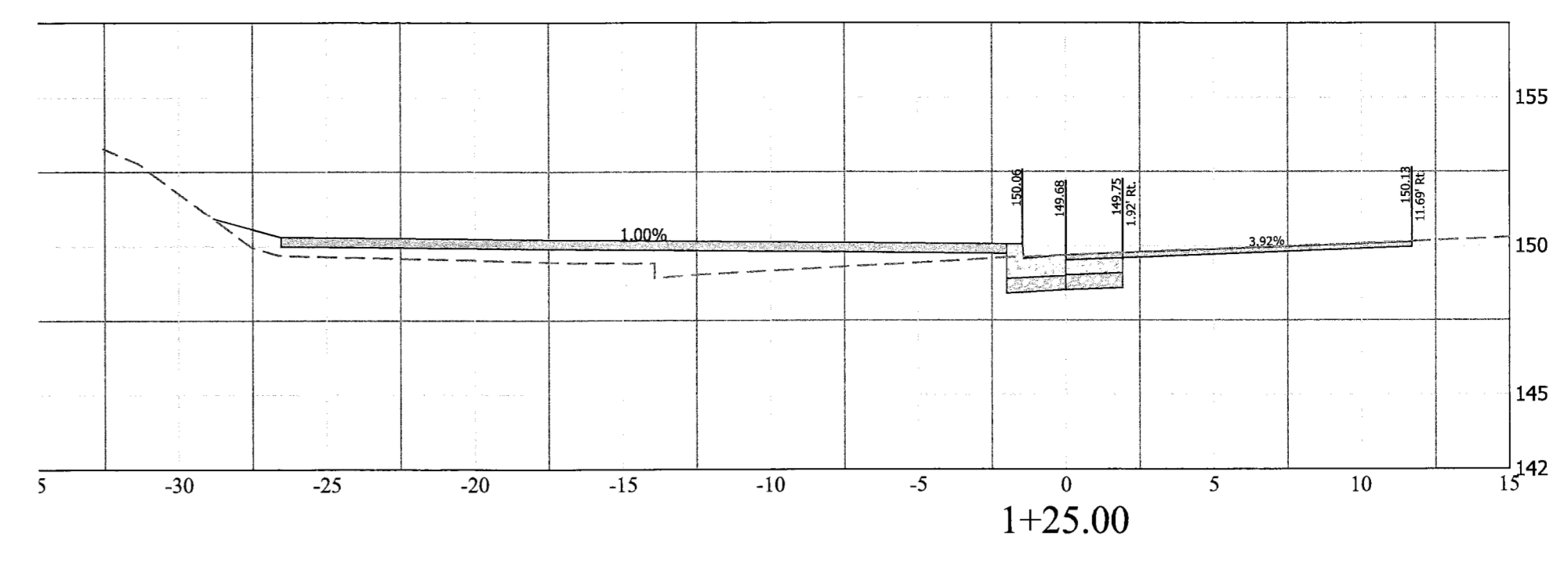
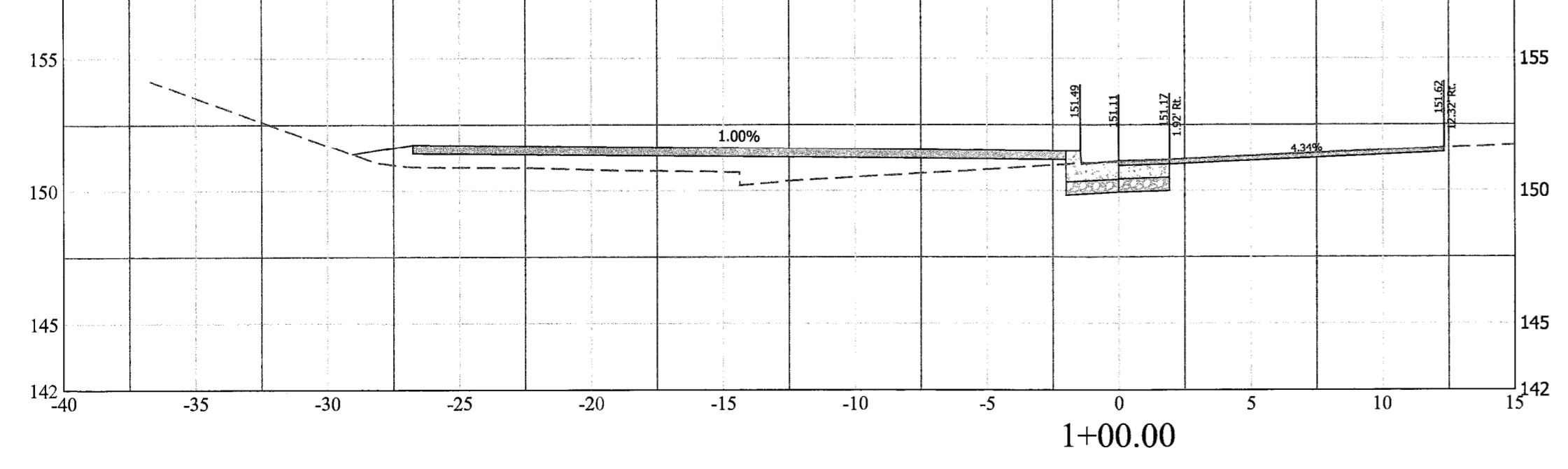
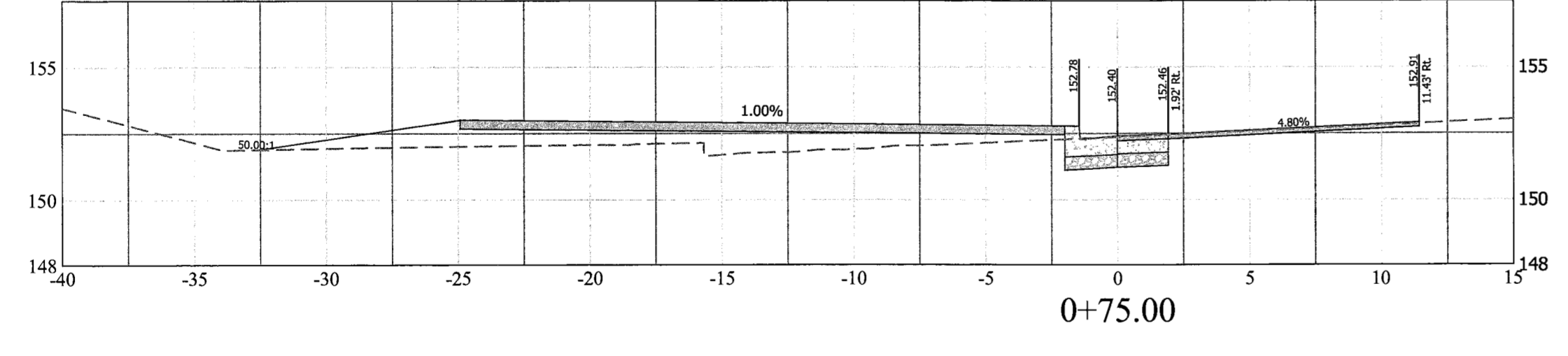
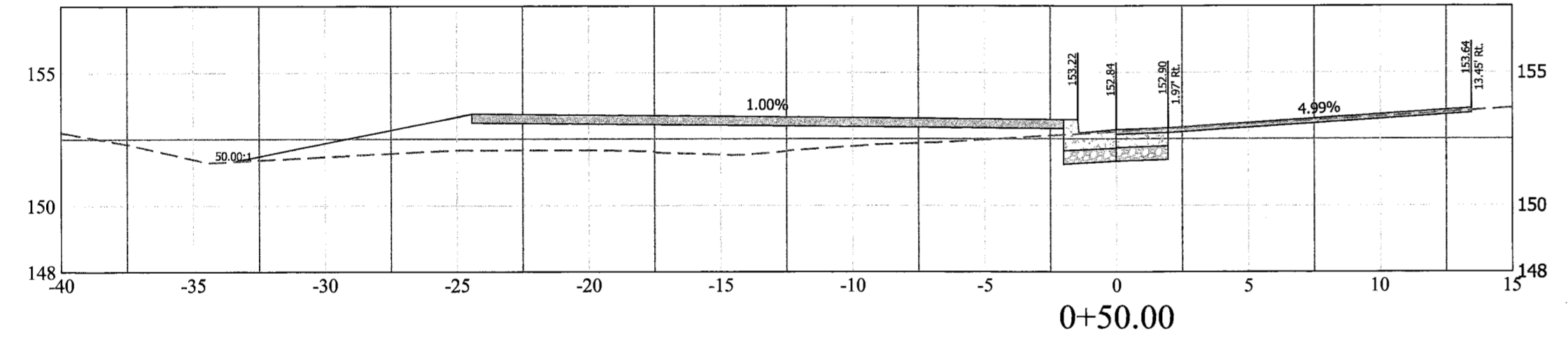
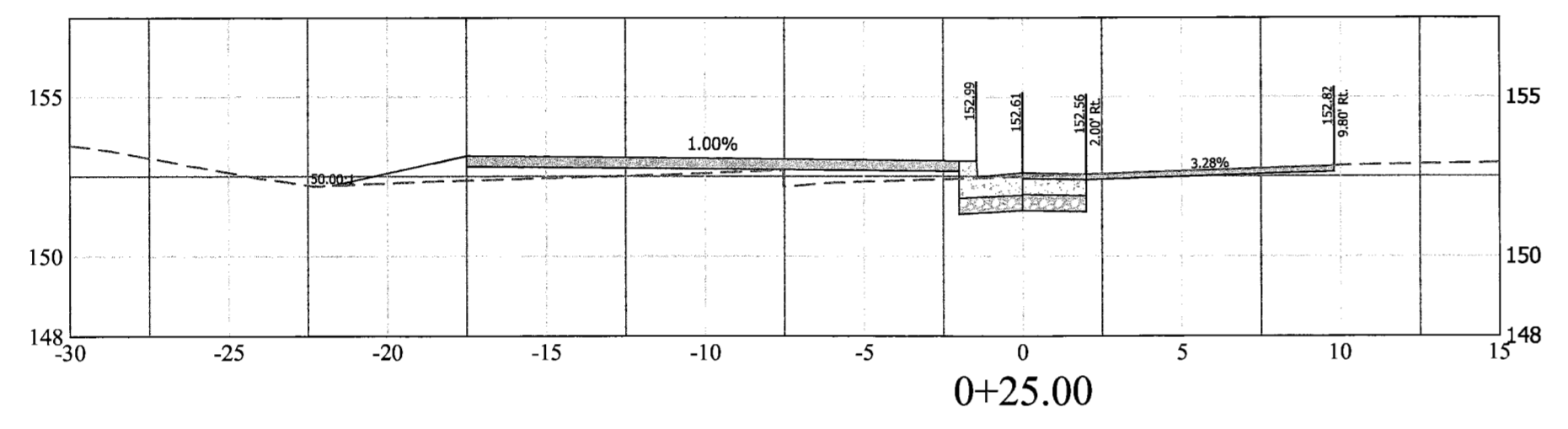
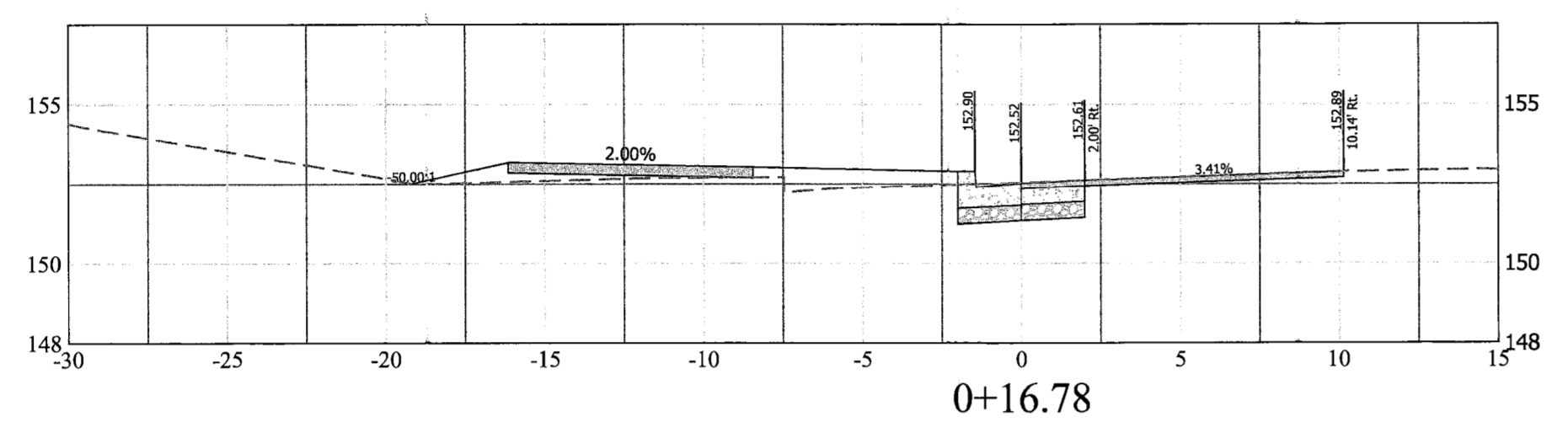
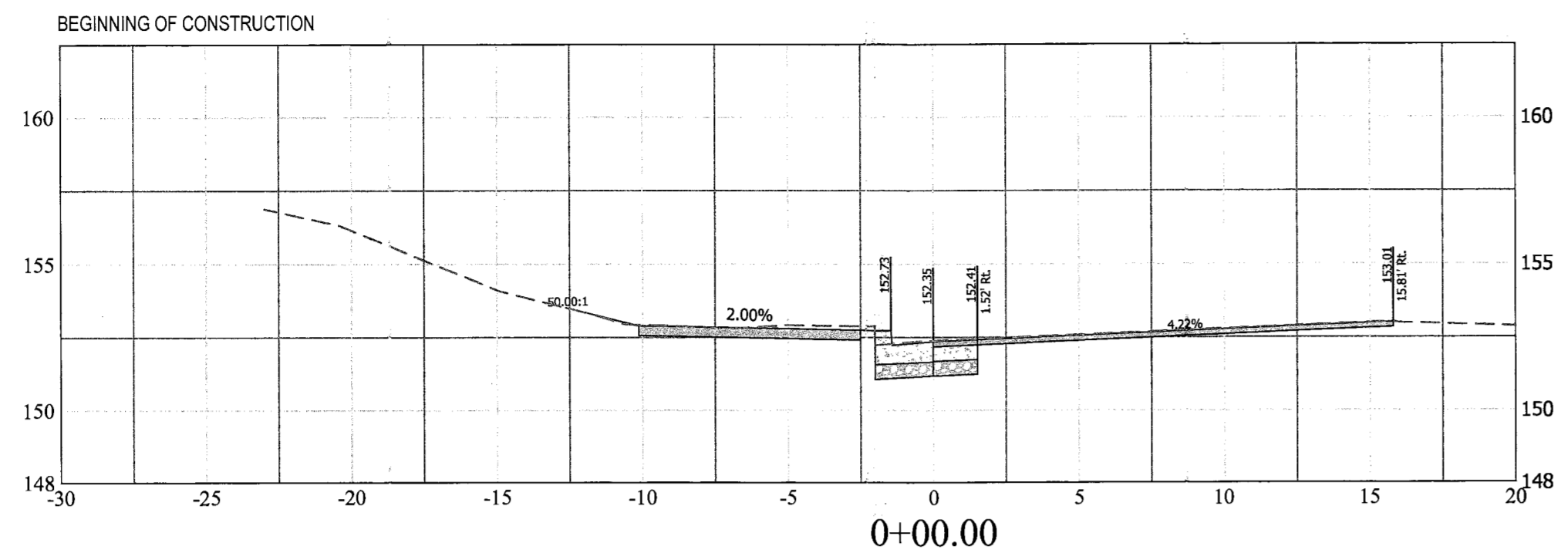
Approvals Date
 DESIGN TEAM SUPERVISOR 12/08/15
 ENGINEERING BUREAU CHIEF 12/08/15
 WATER, SEWER, STREETS BUREAU CHIEF 12/08/15
 TRANSPORTATION DIRECTOR 12/08/15

Revisions	Date

Project Name and Location
Custis Trail-Safety Improvements
 X-Sections-N. Scott Street (CR-1 NW Quadrant)
 Safety Improvements Project
 From N. Oak Street
 To N. Scott Street
 313.43520.B06K.0319.0000

Designed: PB
 Drawn: PB
 Checked: NN
 Miss Utility Transmittal #: 5203-D
 Filename: PPLAN_90 August.dwg
 Path: C:\Data\B06K\Design\Drawings
 Plotted: September 17, 2015
 Plotted by: Pbanepali

Scale:
 Vert: 1" = 5'



X-SECTIONS BASED ON EOP- N. SCOTT STREET (CR-2 NE QUADRANT)



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606

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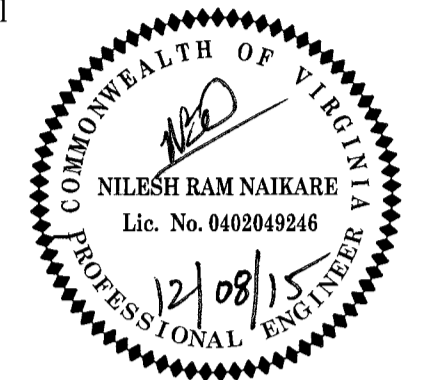
Approvals Date
 DESIGN TEAM SUPERVISOR 12/08/15
 ENGINEERING BUREAU CHIEF 12/08/15
 WATER, SEWER, STREETS BUREAU CHIEF 12/17/15
 TRANSPORTATION DIRECTOR 12/17/15

Revisions	Date

Project Name and Location
Custis Trail-Safety Improvements
 X-Sections- N. Scott Street (CR-2 NE Quadrant)
 Safety Improvements Project
 From N. Oak Street
 To N. Scott Street
 313.433.5200, B066K.0319.0000

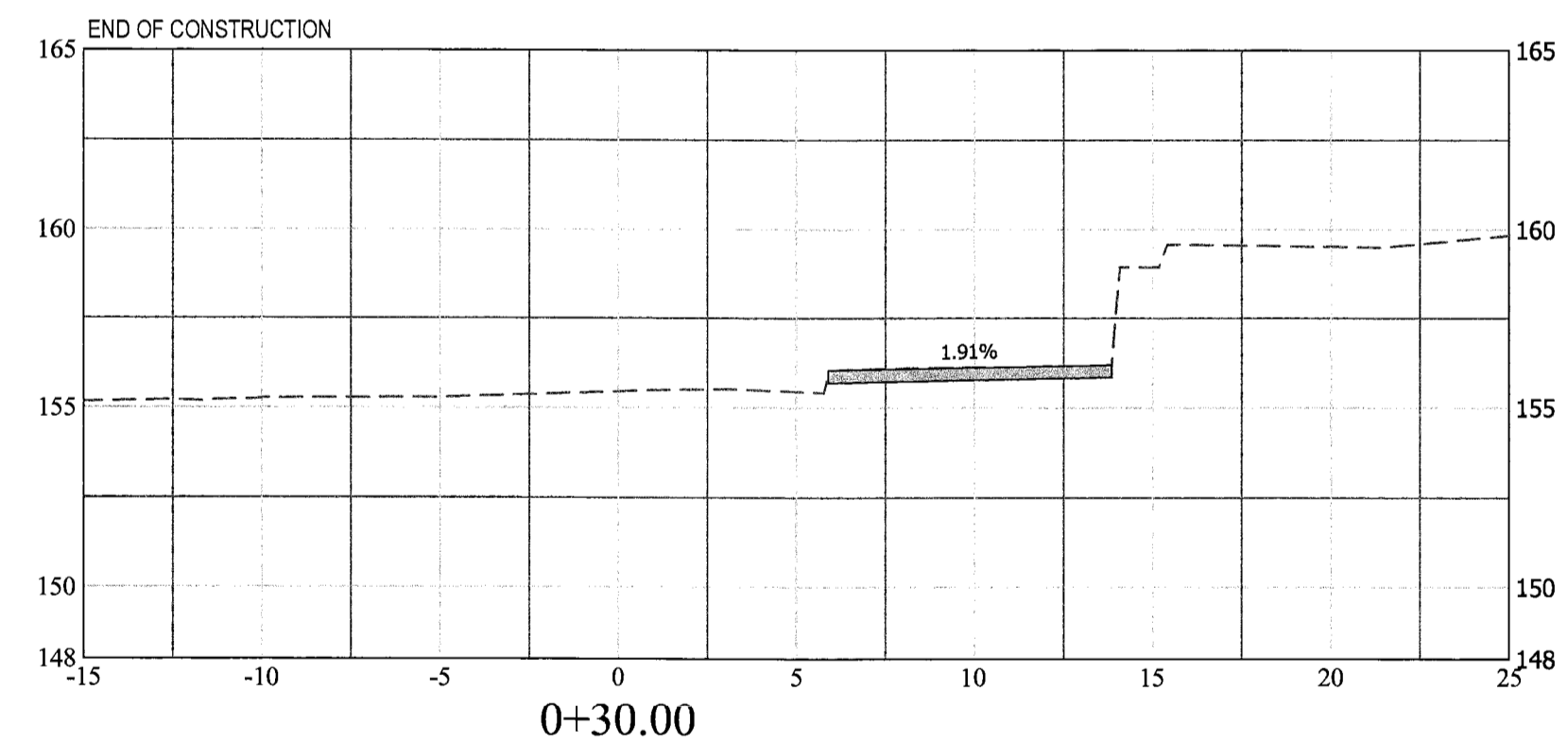
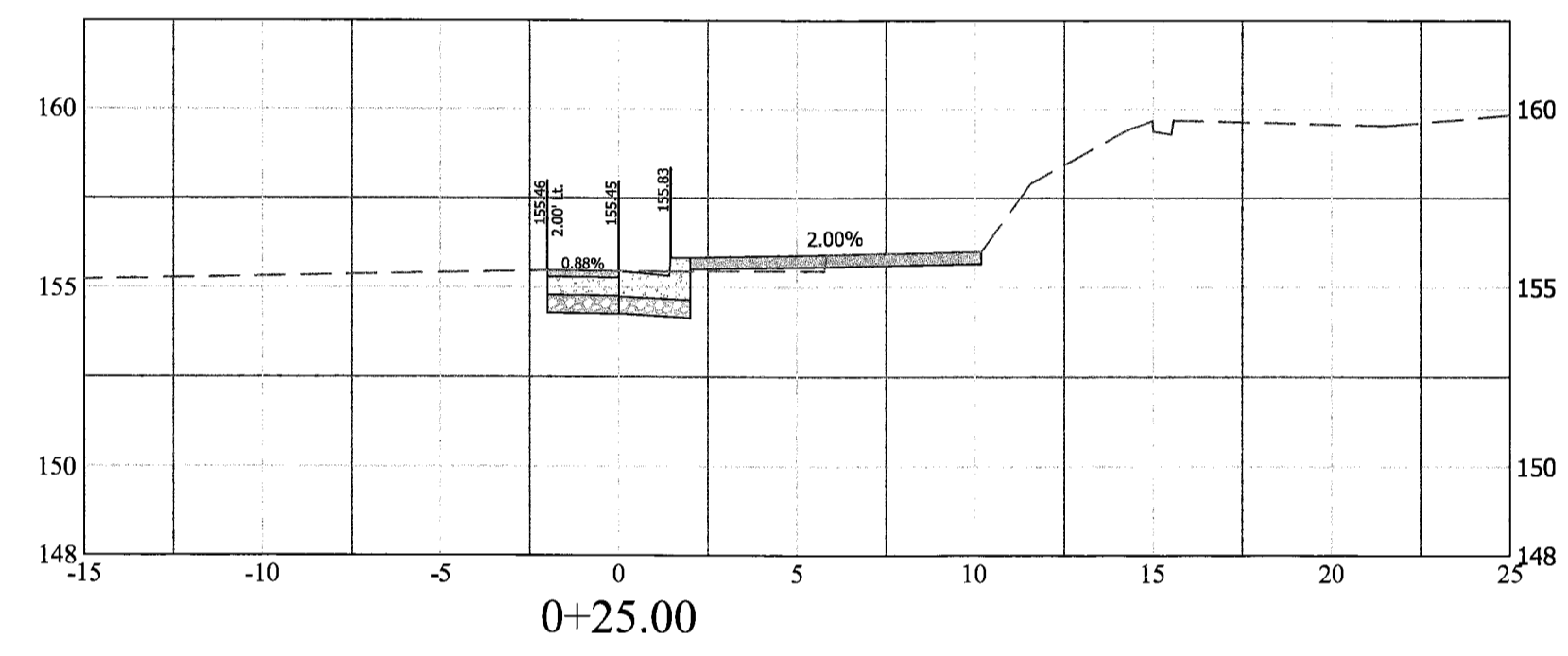
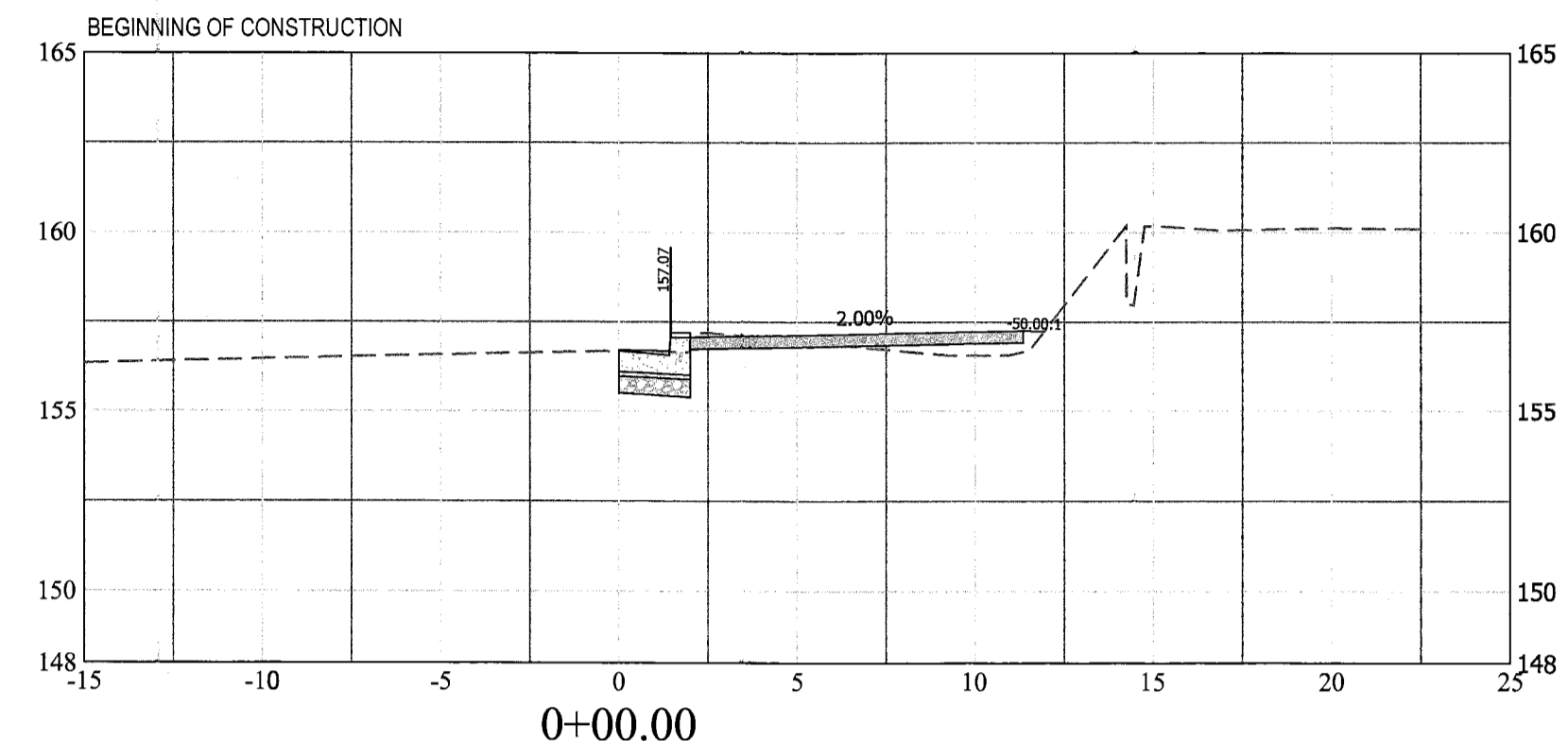
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 Plotted by: Pbanepali
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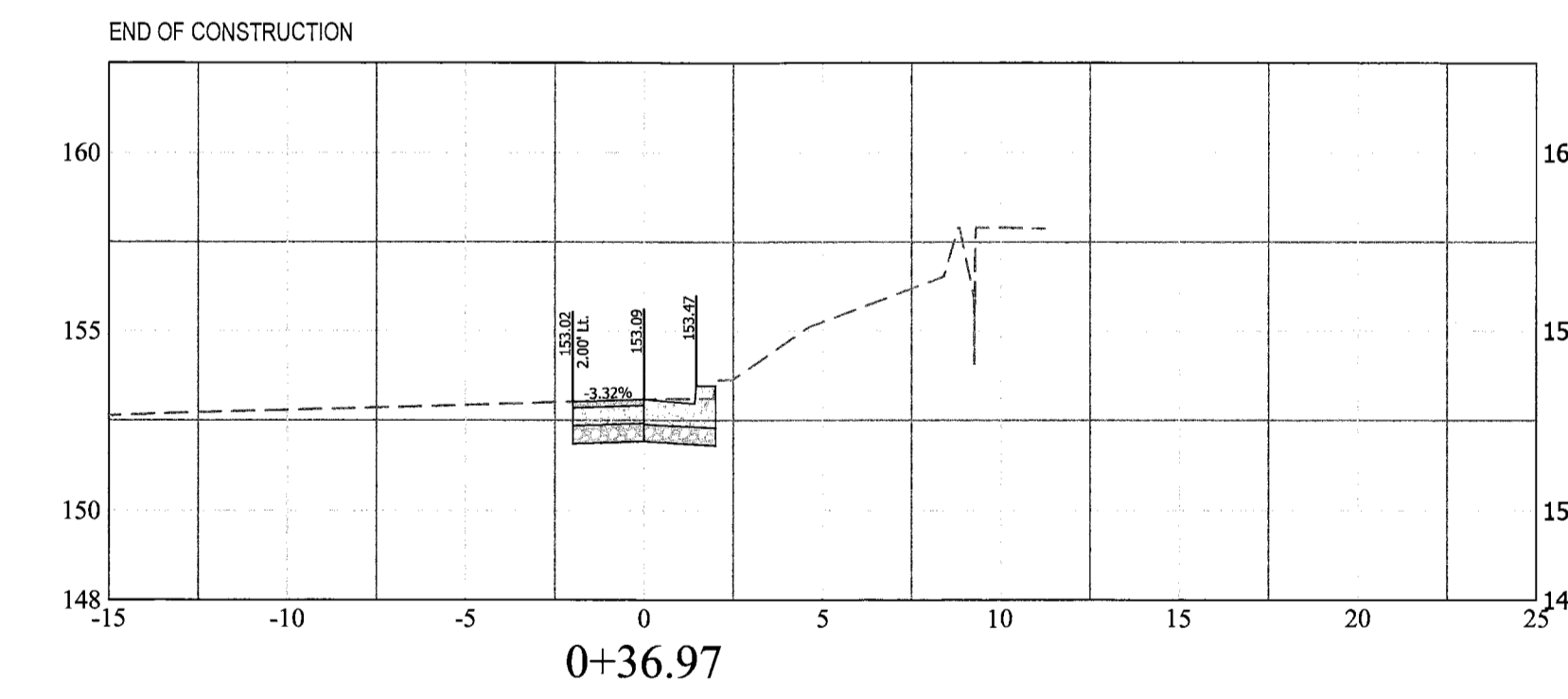
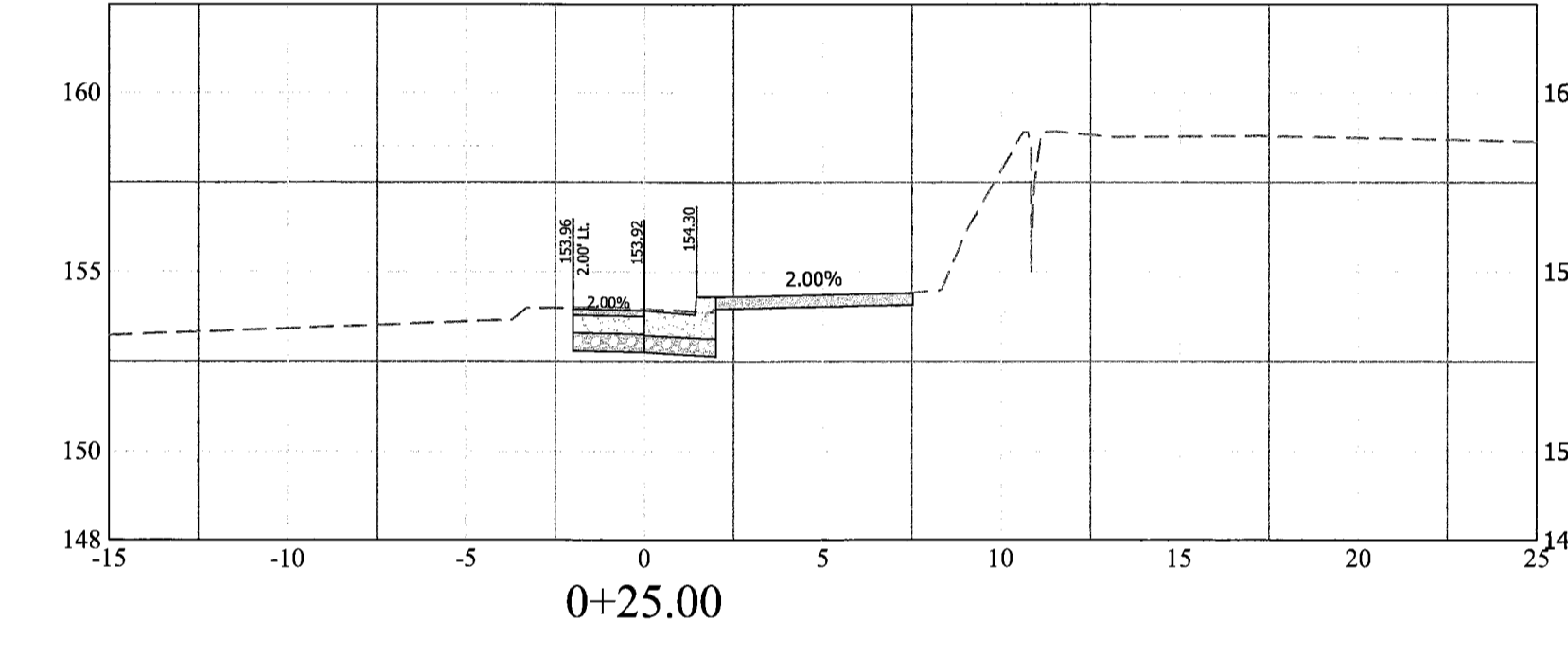
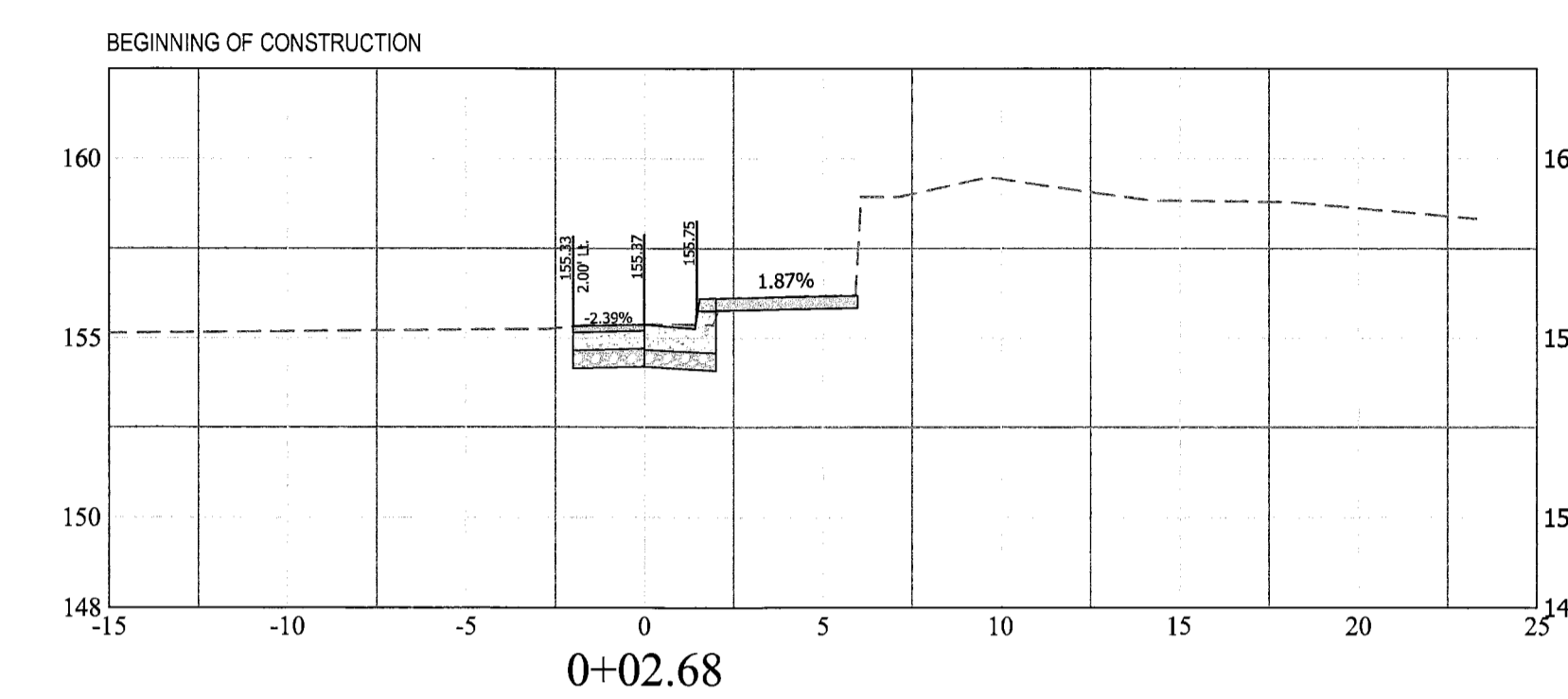


Approvals	Date
<i>[Signature]</i>	12/08/15
DESIGN TEAM SUPERVISOR	
<i>[Signature]</i>	12/08/15
ENGINEERING BUREAU CHIEF	
<i>[Signature]</i>	12/17/15
WATER, SEWER STREETS BUREAU CHIEF	
<i>[Signature]</i>	12/17/15
TRANSPORTATION DIRECTOR	

Revisions	Date



X-SECTIONS BASED ON EOP- N. SCOTT STREET (CR-3 SW QUADRANT)



X-SECTIONS BASED ON EOP- N. SCOTT STREET (CR-4 SE QUADRANT)

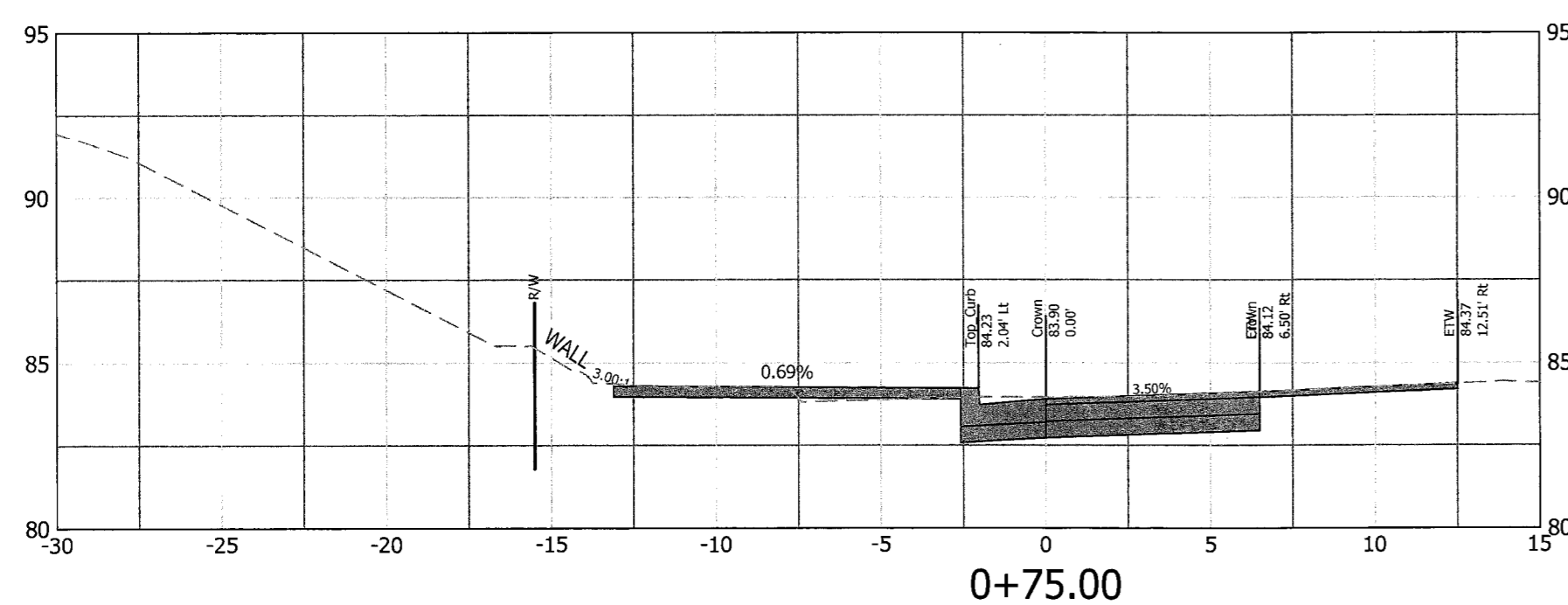
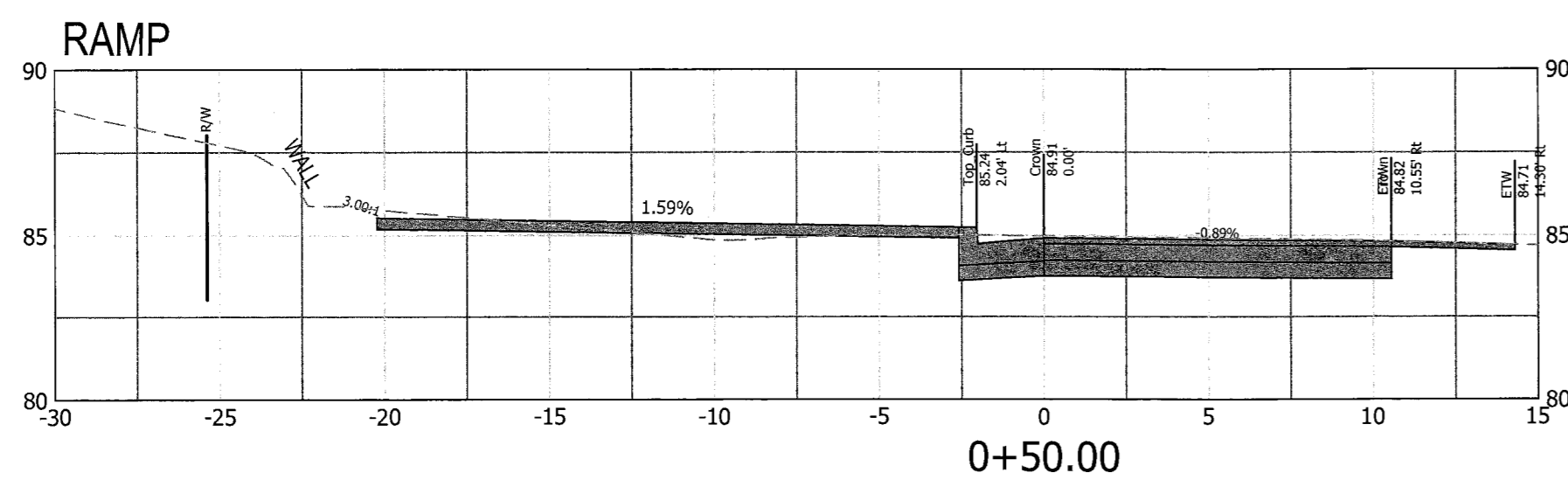
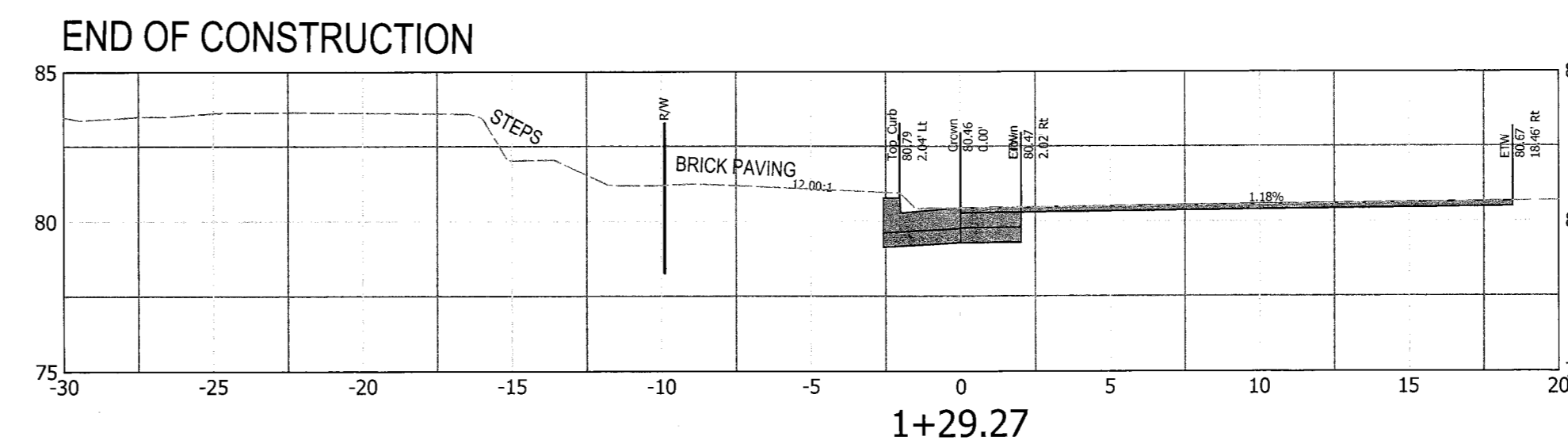
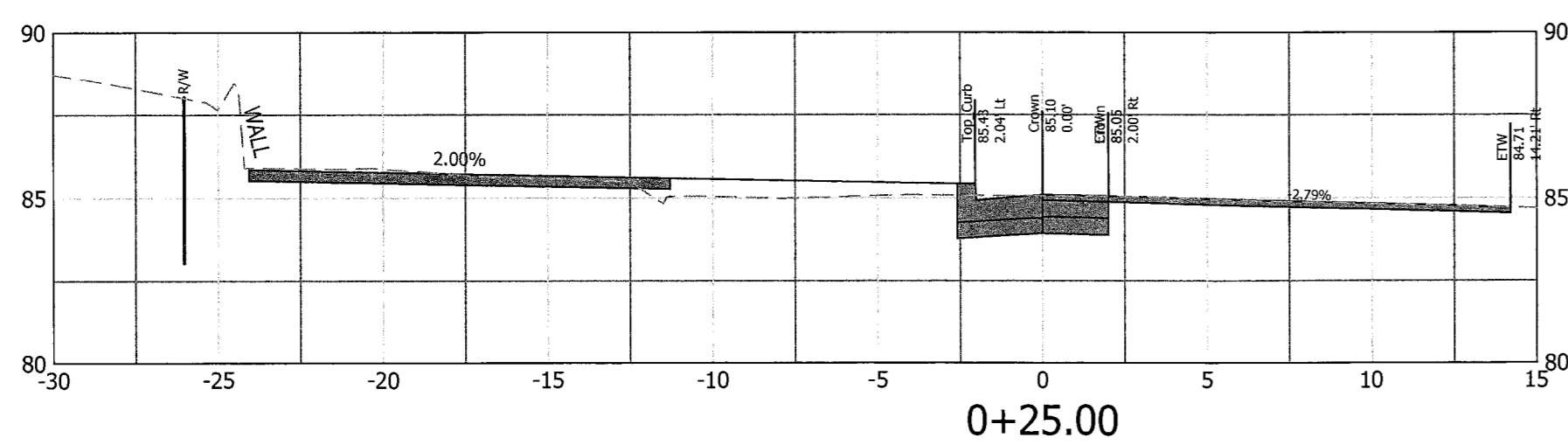
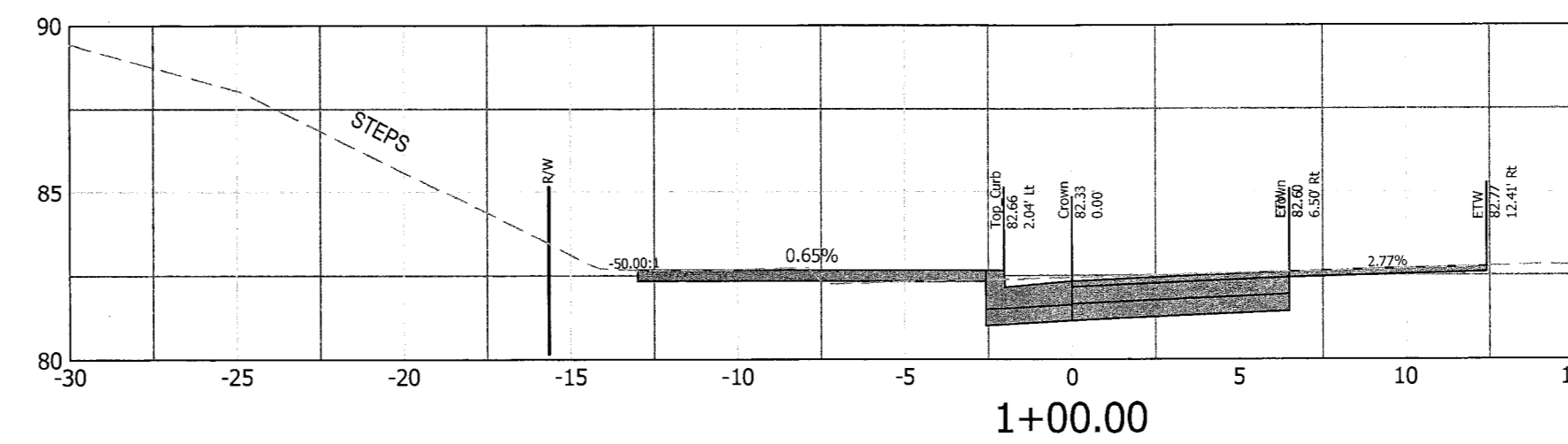
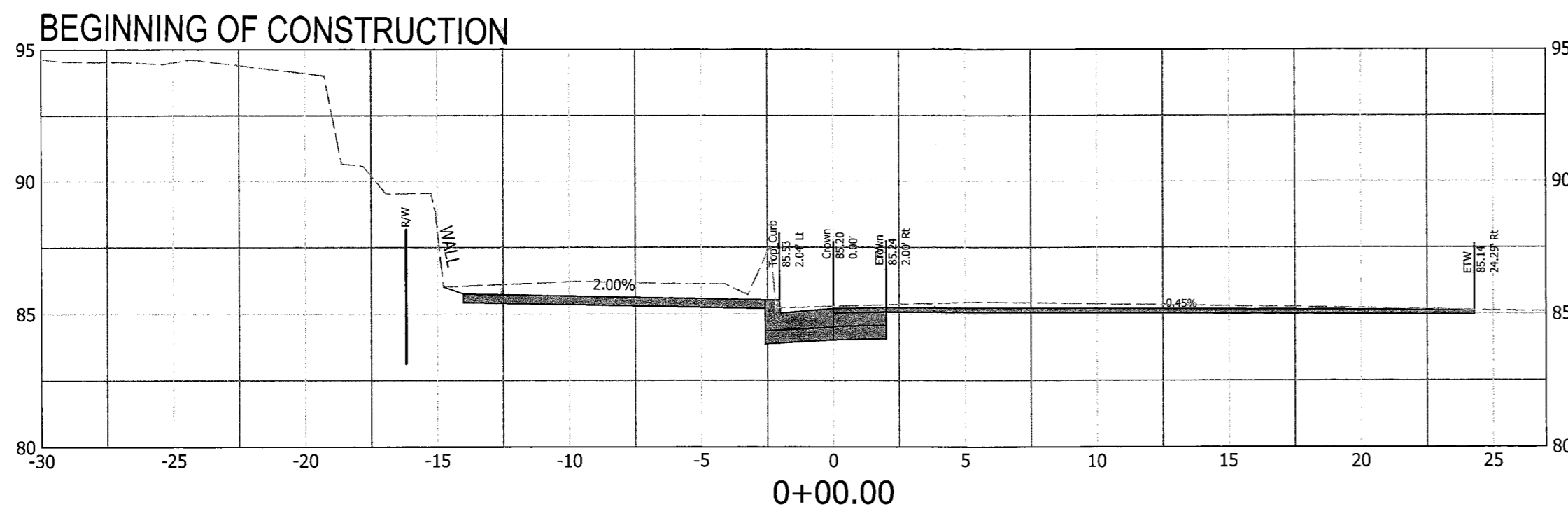
Project Name and Location

Custis Trail-Safety Improvements
X. Sections- N. Scott Street (SE & SW Quadrant)
Safety Improvements Project
From N Oak Street
To N. Scott Street
313.4.8520.B06K.0319.0000

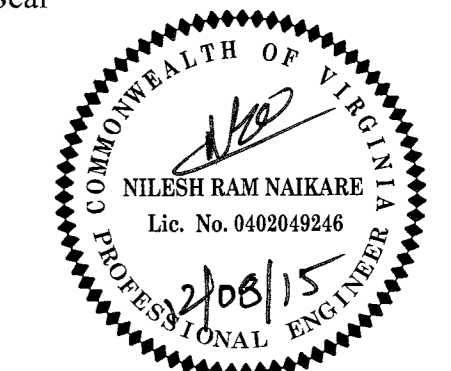
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Filename: PPLAN_90 August.dwg
Path: Q:\data\B06K\Design\Drawings
Plotted: September 17, 2015
Plotted by: Pbanepali

Scale: Vert: 1" = 5'

NORTH OAK STREET (CR-7 NW SIDE)
X-SECTION BASED ON EOP



Seal



Approvals Date

DESIGN TEAM SUPERVISOR 12/08/15

ENGINEERING BUREAU CHIEF 12/08/15

WATER, SEWER, STREETS BUREAU CHIEF 12/08/15

TRANSPORTATION DIRECTOR 12/08/15

Revisions Date

Revisions Date

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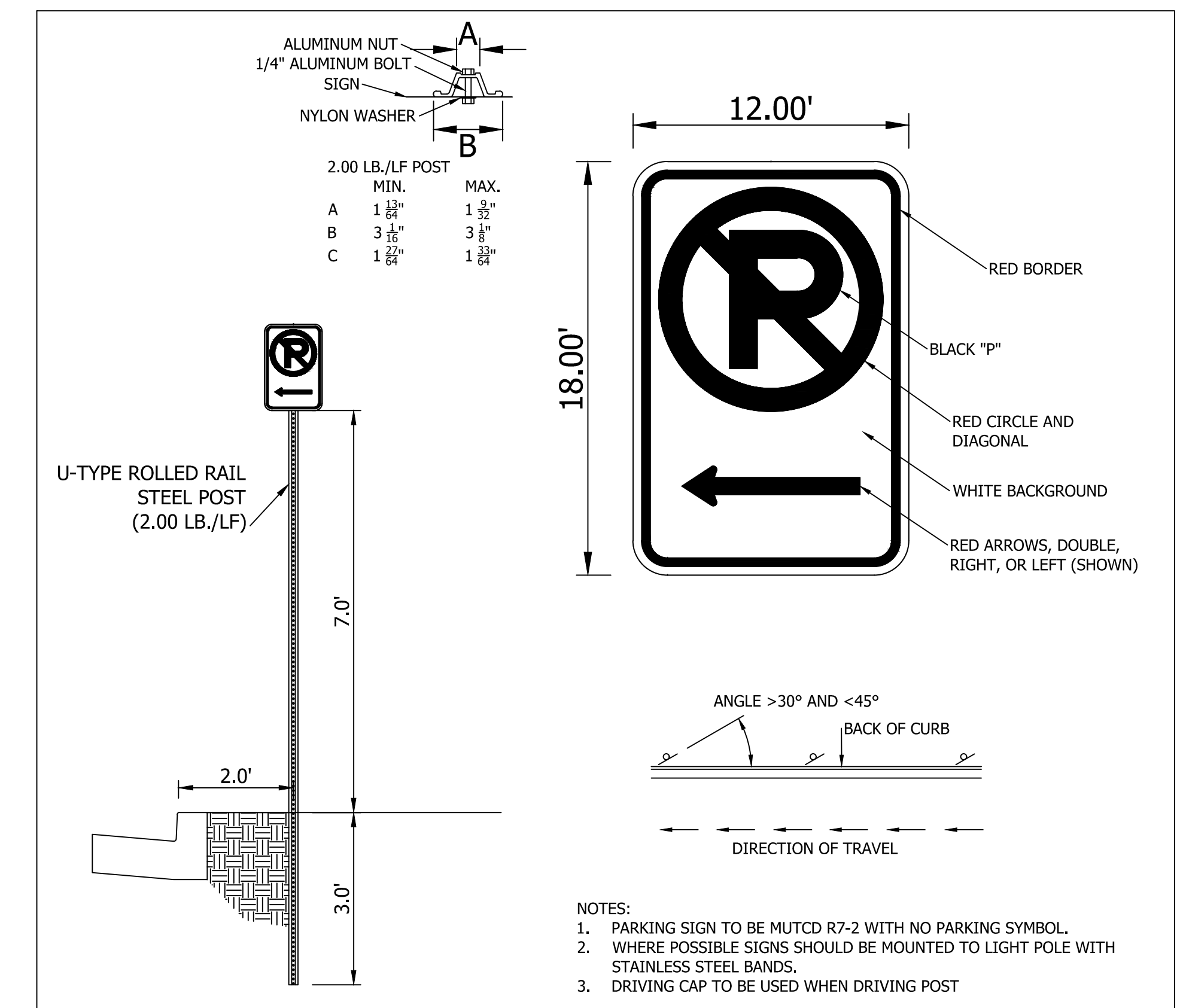
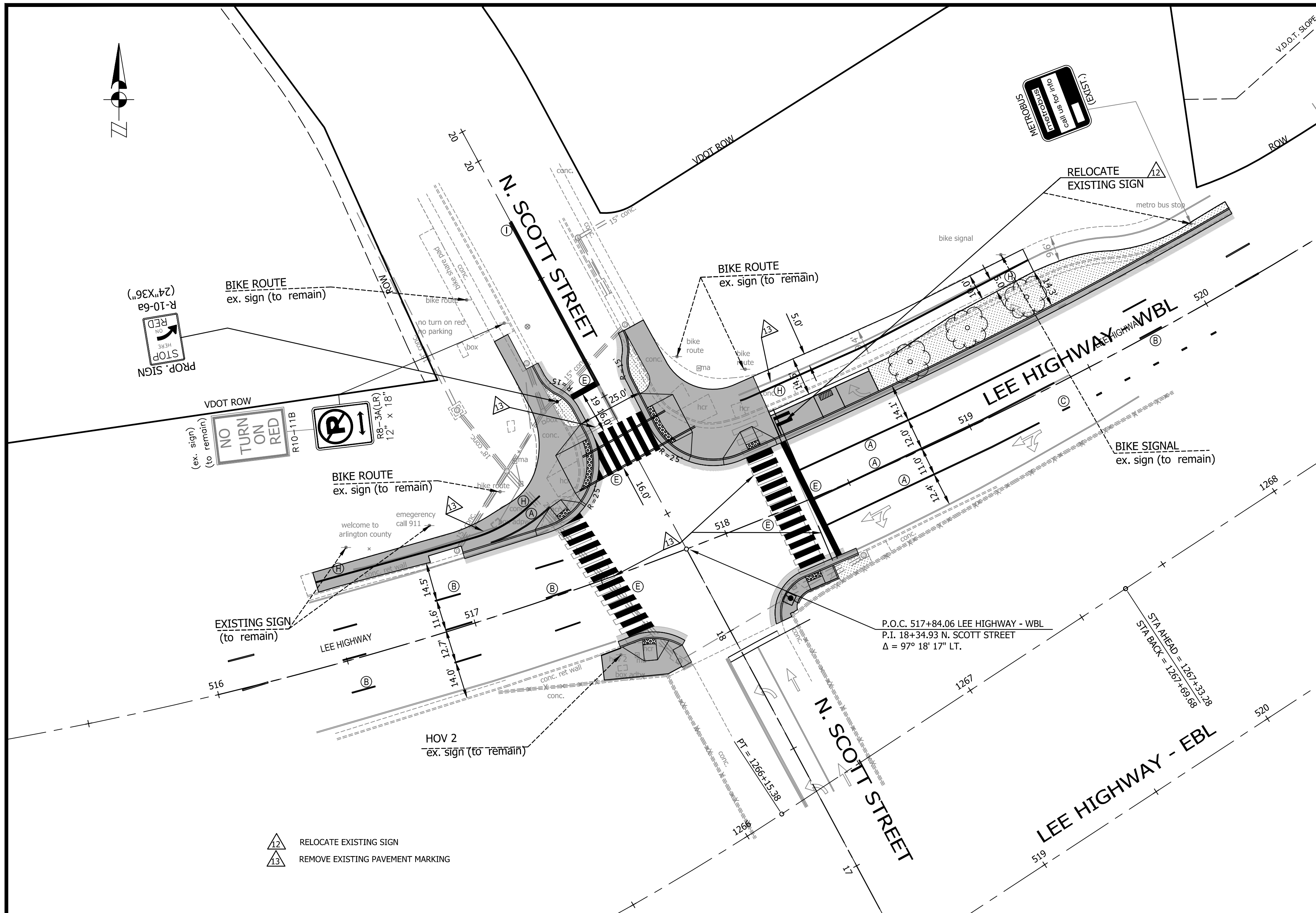
Revisions Date

Project Name and Location
Custis Trail-Safety Improvements
X. Sections- N. Oak Street (CR-7 NW Side)
Safety Improvements Project
From N Oak Street
To N. Scott Street
313-43520.B06K.0319.0000

Designed: PB
Drawn: PB
Checked: NN
Miss Utility Transmittal #: 5203-D

Filename: PPLAN_OAK_AUGUST 2015.dwg
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Plotted: September 17, 2015
Plotted by: Pbanepali

Scale: Vert: 1" = 5'

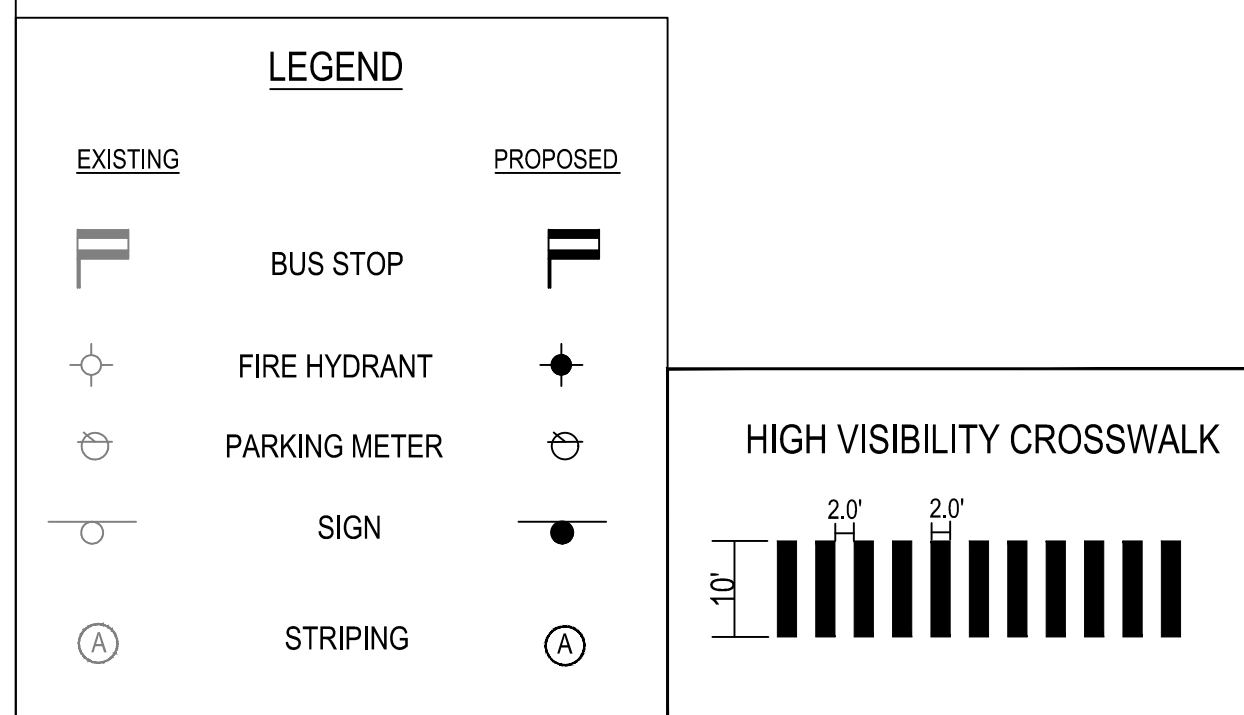


Parking Sign Detail

STANDARD PAVEMENT MARKING LEGEND:

(A) TYPE B CLASS 1.....WHITE 4" WIDTH	PARKING LANES, EDGE LINES, LANE LINES
(B) TYPE B CLASS 1.....WHITE 4" WIDTH, 10' LONG, 30' SPACING	DASHED LANE LINES
(C) TYPE B CLASS 1.....WHITE 4" WIDTH, 2' LONG, 10' SPACING	LANE TRANSITIONS, TURN LANE SKIPS
(D) TYPE B CLASS 1.....WHITE 18" WIDTH	STOP BARS
(E) TYPE B CLASS 1.....WHITE 24" WIDTH	CONTINENTAL CROSS WALKS
(F) TYPE B CLASS 1.....WHITE 6" WIDTH	TURN LANES, TRANSVERSE CROSSWALKS, BIKE LANES
(G) TYPE B CLASS 1.....YELLOW 4" WIDTH, 10' LONG, 30' SPACING	DIVIDED TRAFFIC, TWO WAY TURN LANES
(H) TYPE B CLASS 1.....YELLOW 4" WIDTH	EDGE LINES
(I) TYPE B CLASS 1.....YELLOW 4" WIDTH, DOUBLE LINE, 4" SPACING	CENTERLINES
(J) TYPE B CLASS 1.....WHITE 6" WIDTH, 10' SPACING @45 DEGREE	HATCH LINES, SAFETY ZONES
(K) TYPE B CLASS 1.....WHITE SINGLE ARROW	TURN LANES
(L) TYPE B CLASS 1.....WHITE COMBINATION ARROW	TURN LANES
(M) TYPE B CLASS 1.....WHITE 8" LETTERS	PAVEMENT LETTERS (STOP, YIELD, BUS, ONLY etc.)
(N) TYPE B CLASS 1.....WHITE 6" WIDTH, 2' LONG, 10' SPACING	LANE TRANSITIONS, TURN LANE SKIPS
(O) TYPE B CLASS 1.....WHITE 12" WIDTH, 20' SPACING @45 DEGREE	GORE MARKINGS
(P) TYPE B CLASS 1.....YELLOW 12" WIDTH, 20' SPACING @45 DEGREE	GORE MARKINGS

- SIGN AND PAVEMENT MARKING NOTES:**
- STREET WIDTH MEASUREMENTS ARE FROM FACE OF CURB TO FACE OF CURB. LANES ARE MEASURED FROM CENTER OF MARKING TO CENTER OF MARKING.
 - CONTACT DENNIS HOWELL OR HIS DESIGNEE AT 703-228-6598 OR (571) 437-1077 TO APPROVE MARKING LAYOUT 48 HRS. PRIOR TO INSTALLATION OF MARKINGS.
 - PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE FOLLOWING AND ANY REVISIONS HERE TO:
 - A.) THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - B.) ARLINGTON COUNTY MARKING STANDARDS.
 - ALL MARKINGS SHALL BE THERMOPLASTIC PER ARLINGTON COUNTY MARKING STANDARDS.
 - STOP BARS SHALL BE A MINIMUM OF 4' IN ADVANCE OF A MARKED CROSSWALK. IF THERE IS NO MARKED CROSSWALK, STOP BAR SHALL BE NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTED TRAVELED WAY.
 - CROSSWALKS SHALL BE 10' WIDE UNLESS OTHERWISE NOTED.
 - LEFT TURN ARROWS SHALL BE LOCATED 25' BACK FROM STOP BAR. FOR ADDITIONAL ARROWS FOLLOW COUNTY MARKING STANDARDS.
 - ON-STREET PARKING LANE IS 7' WIDE (UNLESS OTHERWISE NOTED) AND MARKED WITH 4" WIDE WHITE LINES. BEGINNING AND END OF PARKING SHALL BE MARKED WITH AN END LINE PERPENDICULAR TO CURB EXCEPT AT NUBS OR WHERE OTHERWISE INDICATED.
 - SHARROWS SHALL BE PLACED IN CENTER OF LANE, 250' APART UNLESS OTHERWISE SPECIFIED.
 - BIKE LANE SYMBOLS TO BE PLACED 330' APART UNLESS OTHERWISE SPECIFIED.



Approvals

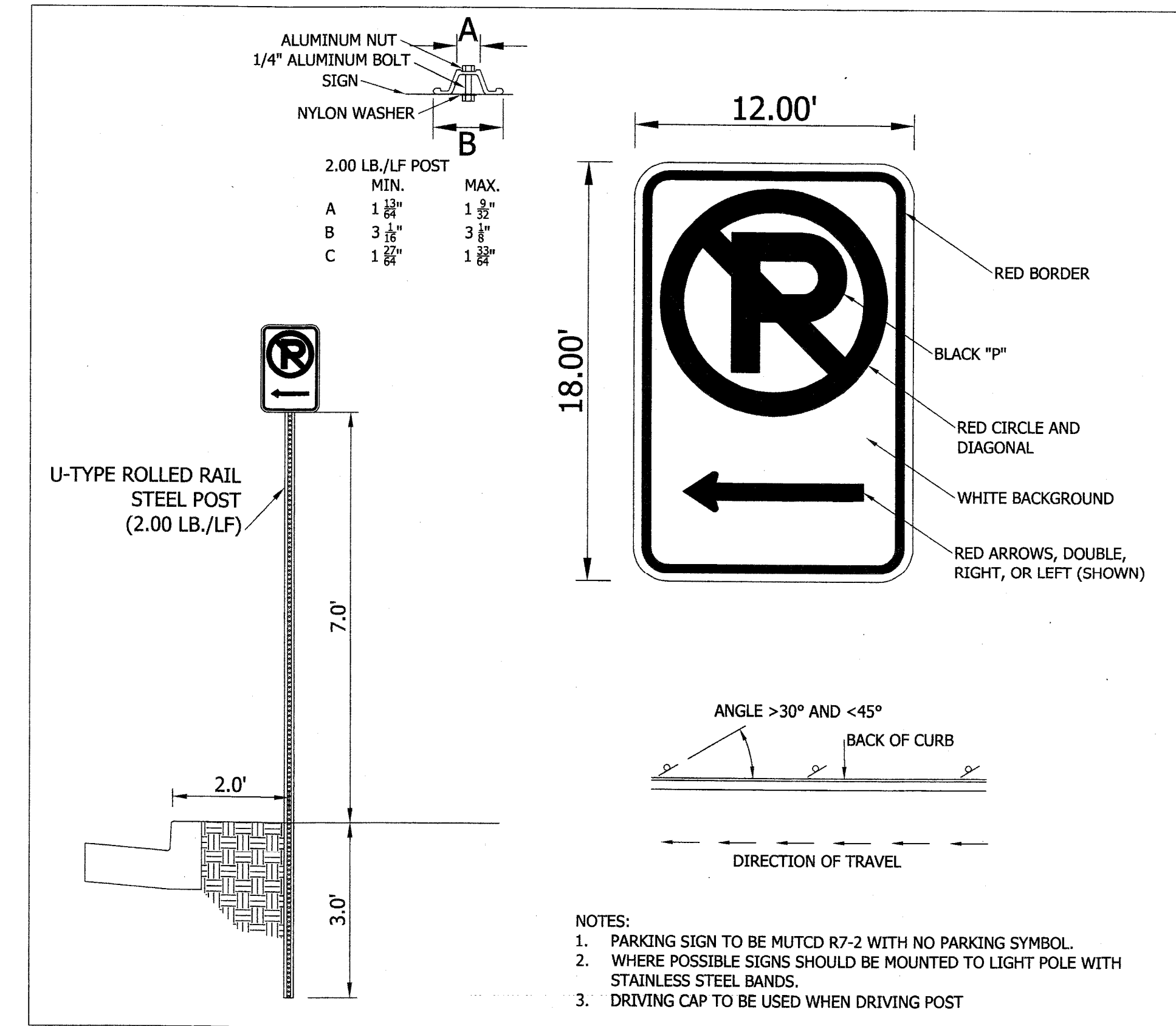
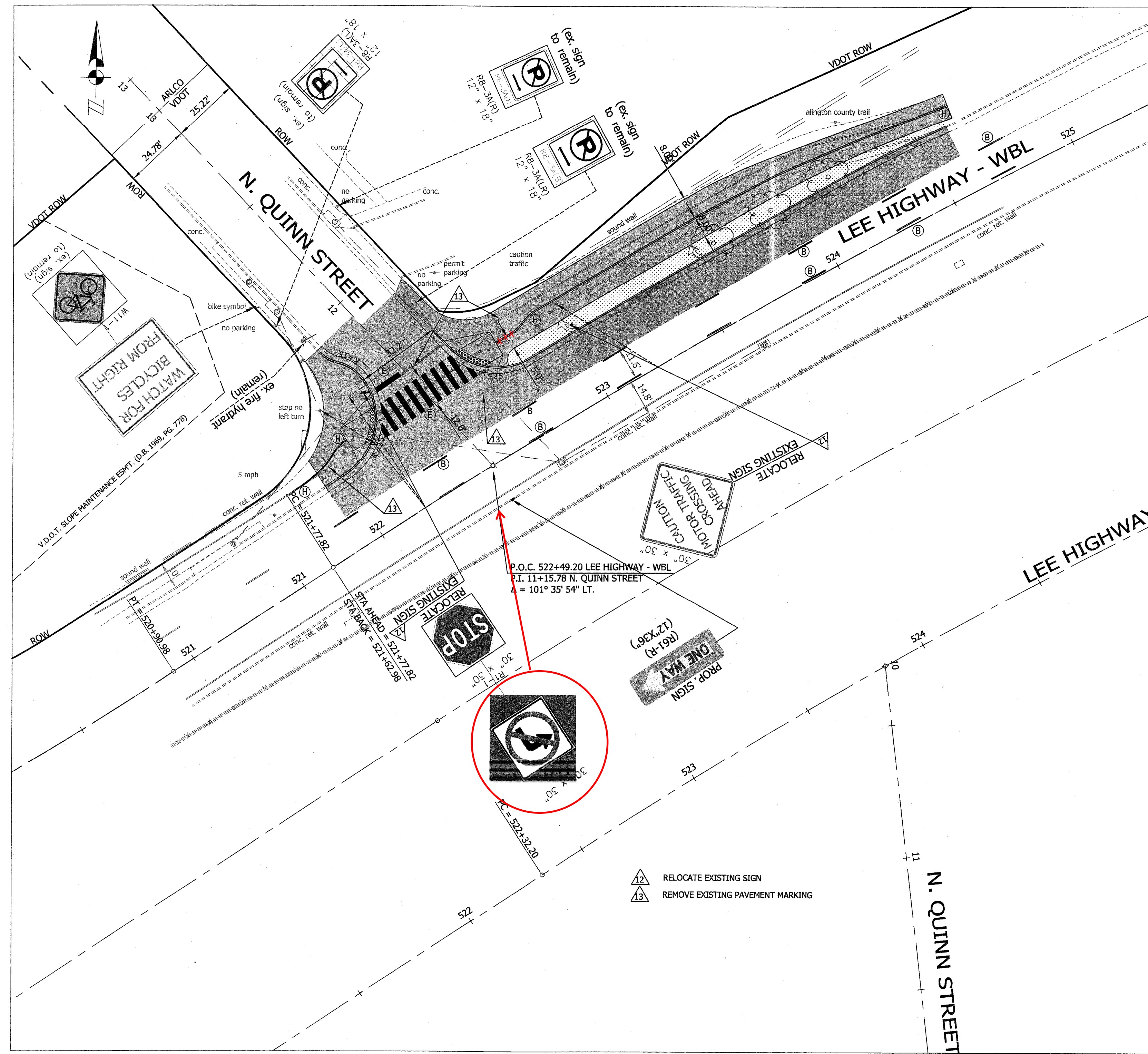
DESIGN TEAM SUPERVISOR	Date
ENGINEERING BUREAU CHIEF	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

Revisions

Revision 1	09/20/18
------------	----------

Project Name and Location
Custis Trail-Safety Improvements
 Signage & Pavement Markings (N.Scott Street)
 From N.Oak Street
 To N. Scott Street
 313.43520.B06K.0319.0000

Designed: PB
 Drawn: PB
 Checked: NN
 Miss Utility Transmittal #: 5203-D
 Filename: Signage & Pavement Markings_Revision_03
 Path: Q:\Data\B06K\Design\Drawings
 Plotted: September 20, 2018
 Plotted by: pbnepali
 Scale: Hor: 1" = 25'
 Vert: 1" = 5'



Parking Sign Detail

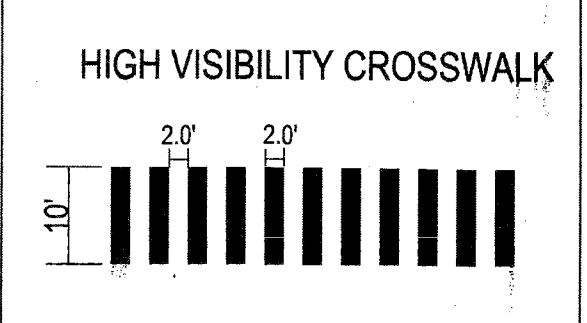
STANDARD PAVEMENT MARKING LEGEND:

(A) TYPE B CLASS 1.....WHITE 4" WIDTH	PARKING LANES, EDGE LINES, LANE LINES
(B) TYPE B CLASS 1.....WHITE 4" WIDTH, 10' LONG, 30' SPACING	DASHED LANE LINES
(C) TYPE B CLASS 1.....WHITE 4" WIDTH, 2' LONG, 10' SPACING	LANE TRANSITIONS, TURN LANE SKIPS
(D) TYPE B CLASS 1.....WHITE 18" WIDTH	STOP BARS
(E) TYPE B CLASS 1.....WHITE 24" WIDTH	CONTINENTAL CROSS WALKS
(F) TYPE B CLASS 1.....WHITE 6" WIDTH	TURN LANES, TRANSVERSE CROSSWALKS, BIKE LANES
(G) TYPE B CLASS 1.....YELLOW 4" WIDTH, 10' LONG, 30' SPACING	DIVIDED TRAFFIC, TWO WAY TURN LANES
(H) TYPE B CLASS 1.....YELLOW 4" WIDTH	EDGE LINES
(I) TYPE B CLASS 1.....YELLOW 4" WIDTH, DOUBLE LINE, 4" SPACING	CENTERLINES
(J) TYPE B CLASS 1.....WHITE 6" WIDTH, 10' SPACING @45 DEGREE	HATCH LINES, SAFETY ZONES
(K) TYPE B CLASS 1.....WHITE SINGLE ARROW	TURN LANES
(L) TYPE B CLASS 1.....WHITE COMBINATION ARROW	TURN LANES
(M) TYPE B CLASS 1.....WHITE 8" LETTERS	PAVEMENT LETTERS (STOP, YIELD, BUS, ONLY etc.)
(N) TYPE B CLASS 1.....WHITE 6" WIDTH, 2' LONG, 10' SPACING	LANE TRANSITIONS, TURN LANE SKIPS
(O) TYPE B CLASS 1.....WHITE 12" WIDTH, 20' SPACING @45 DEGREE	GORE MARKINGS
(P) TYPE B CLASS 1.....YELLOW 12" WIDTH, 20' SPACING @45 DEGREE	GORE MARKINGS

- SIGN AND PAVEMENT MARKING NOTES:**
- STREET WIDTH MEASUREMENTS ARE FROM FACE OF CURB TO FACE OF CURB. LANES ARE MEASURED FROM CENTER OF MARKING TO CENTER OF MARKING.
 - CONTACT DENNIS HOWELL OR HIS DESIGNEE AT 703-228-6998 OR (571) 437-1077 TO APPROVE MARKING LAYOUT 48 HRS. PRIOR TO INSTALLATION OF MARKINGS.
 - PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE FOLLOWING AND ANY REVISIONS HERE TO:
 - THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - ARLINGTON COUNTY MARKING STANDARDS.
 - ALL MARKINGS SHALL BE THERMOPLASTIC PER ARLINGTON COUNTY MARKING STANDARDS.
 - STOP BARS SHALL BE A MINIMUM OF 4' IN ADVANCE OF A MARKED CROSSWALK. IF THERE IS NO MARKED CROSSWALK, STOP BAR SHALL BE NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTED TRAVELED WAY.
 - CROSSWALKS SHALL BE 10' WIDE UNLESS OTHERWISE NOTED.
 - LEFT TURN ARROWS SHALL BE LOCATED 26' BACK FROM STOP BAR. FOR ADDITIONAL ARROWS FOLLOW COUNTY MARKING STANDARDS.
 - ON-STREET PARKING LANE IS 7' WIDE (UNLESS OTHERWISE NOTED) AND MARKED WITH 4" WIDE WHITE LINES. BEGINNING AND END OF PARKING SHALL BE MARKED WITH AN END LINE PERPENDICULAR TO CURB EXCEPT AT NUBS OR WHERE OTHERWISE INDICATED.
 - SHARROWS SHALL BE PLACED IN CENTER OF LANE, 250' APART UNLESS OTHERWISE SPECIFIED.
 - BIKE LANE SYMBOLS TO BE PLACED 330' APART UNLESS OTHERWISE SPECIFIED.

LEGEND

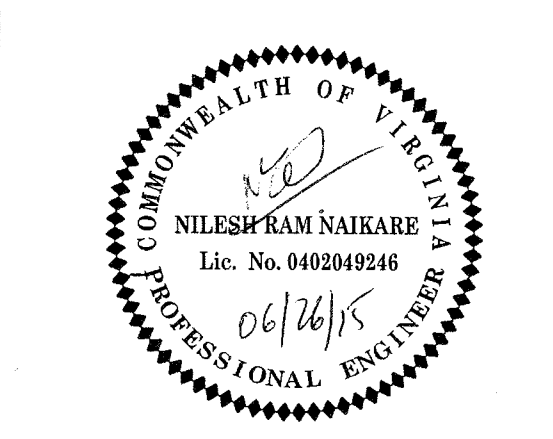
EXISTING	PROPOSED



Virginia Department of Transportation
Review of Working Drawings

Working drawings have been reviewed in accordance with Section 105.10 of the 2007 VDOT Road & Bridge Specifications with comments as follows:

Review Completed
 Correct and Resubmit
 Rejected - See Remarks
 Reviewed by: Date: 8-12-2015



Approvals _____ Date 06/26/15
DESIGN TEAM SUPERVISOR
ENGINEERING BUREAU CHIEF
WATER, SEWER STREETS BUREAU CHIEF
TRANSPORTATION DIRECTOR

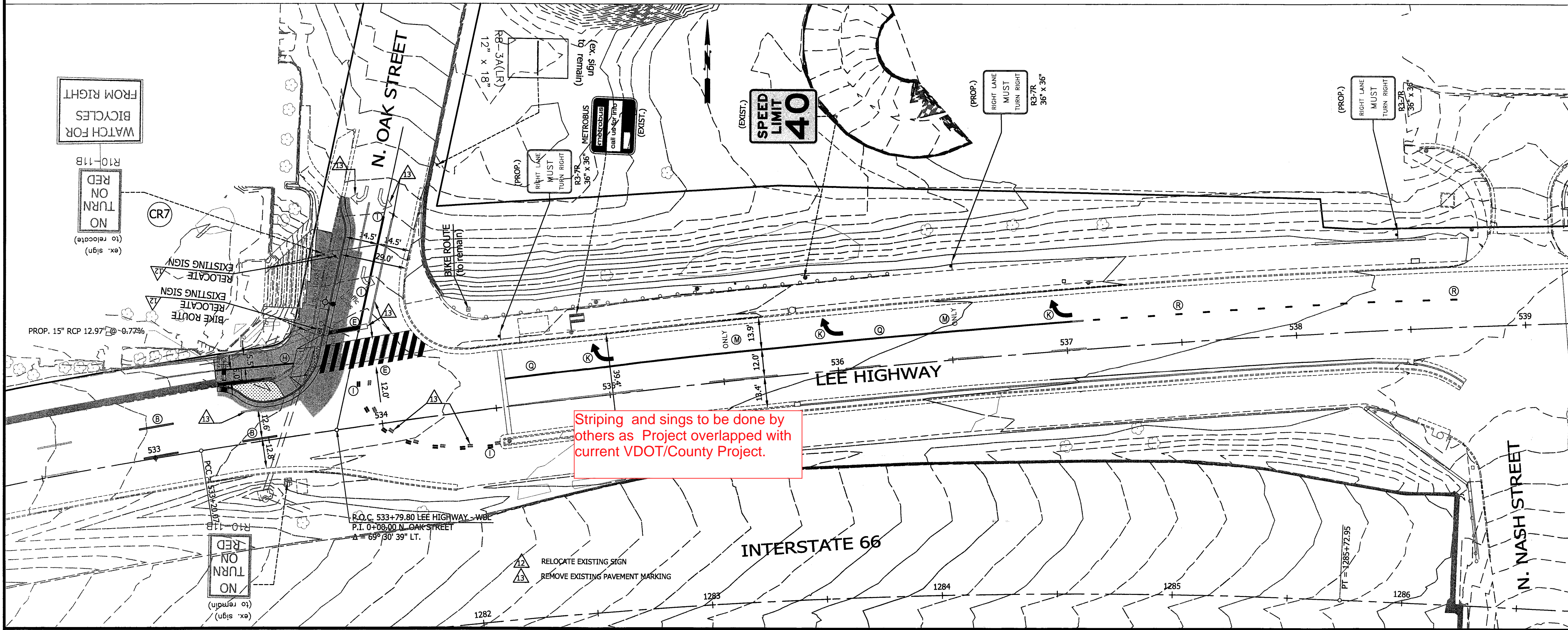
Revisions _____ Date

Project Name and Location
Custis Trail-Safety Improvements
Signage & Pavement Markings (N. Quinn Street)
From N. Oak Street
To N. Scott Street
313.43320.1806K.0319.0000

Designed: PB
Drawn: PB
Checked: NN
Miss Utility Transmittal #: 5203-D

Filename: Signage & Pavement Markings.dwg
Path: Q:\Data\B06K\Design\Drawings
Plotted: June 26, 2015
Plotted by: Pbanepal

Scale: Hor: 1" = 25'
Vert: 1" = 5'



Striping and signs to be done by others as Project overlapped with current VDOT/County Project.

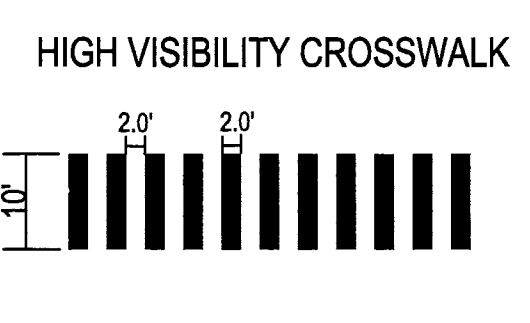
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(A) TYPE B CLASS 1.....WHITE 4" WIDTH	PARKING LANES, EDGE LINES, LANE LINES
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(Q) TYPE B CLASS 1.....WHITE 8" WIDTH	TURN LANES, TRANSVERSE CROSSWALKS, BIKE LANES
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- SIGN AND PAVEMENT MARKING NOTES:**
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 - A) THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - B) ARLINGTON COUNTY MARKING STANDARDS.
 - ALL MARKINGS SHALL BE THERMOPLASTIC PER ARLINGTON COUNTY MARKING STANDARDS.
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 - BIKE LANE SYMBOLS TO BE PLACED 330' APART UNLESS OTHERWISE SPECIFIED.

LEGEND

EXISTING		PROPOSED
	BUS STOP	
	FIRE HYDRANT	
	PARKING METER	
	SIGN	
	STRIPING	

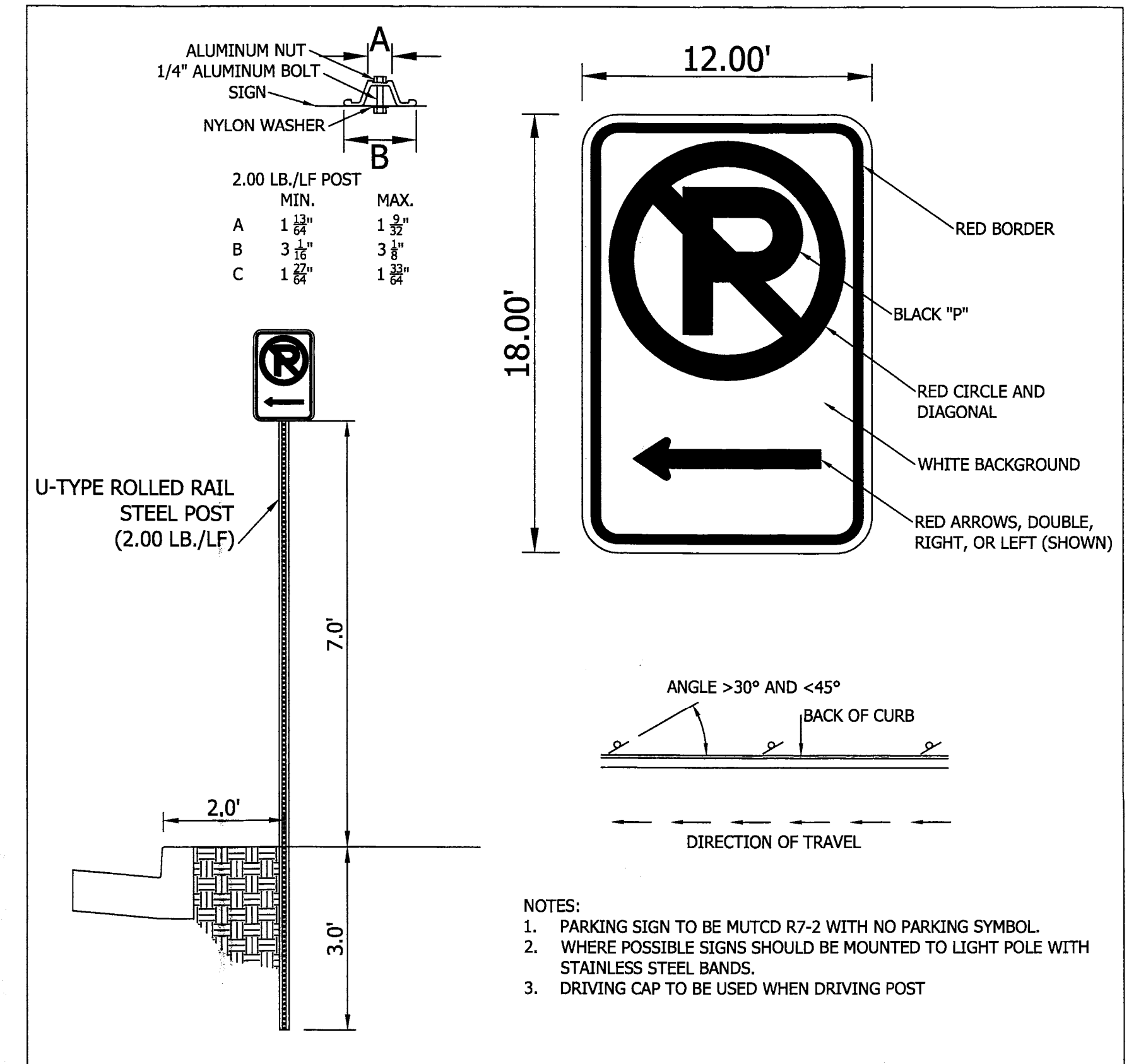


Virginia Department of Transportation
Review of Working Drawings

Working drawings have been reviewed in accordance with Section 105.10 of the 2007 VDOT Road & Bridge Specifications with comments as follows:

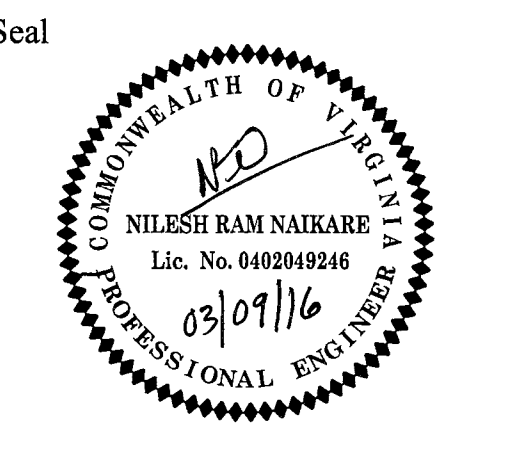
- Review Completed
- Correct and Resubmit
- Rejected - See Remarks

Reviewed by: *KT* Date: 02/04/16



Parking Sign Detail

- NOTES:**
- PARKING SIGN TO BE MUTCD R7-2 WITH NO PARKING SYMBOL.
 - WHERE POSSIBLE SIGNS SHOULD BE MOUNTED TO LIGHT POLE WITH STAINLESS STEEL BANDS.
 - DRIVING CAP TO BE USED WHEN DRIVING POST



Approvals

Signature	Date
<i>ND</i>	03/09/16
<i>William</i>	03/09/16
<i>Scott</i>	3/11/16
<i>John</i>	3/9/16

Revisions

Revision	Date

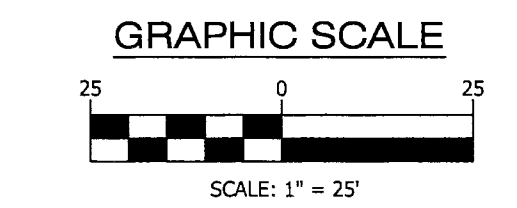
Project Name and Location
Custis Trail-Safety Improvements
Signage & Pavement Markings (N. Oak Street)

From N. Oak Street
To N. Scott Street
313.43.520.1306K.0319.0000

Designed: PB
Drawn: PB
Checked: NN
Miss Utility Transmittal #: 5203-D

Filename: S & P Markings_Oak_Jan 2016 (revised).dwg
Path: C:\Data\B068\Design\Drawings
Plotted: March 08, 2016
Plotted by: Pbanepalli

Scale: Hor: 1" = 25'



Construction Drawings For: Traffic Signal Design

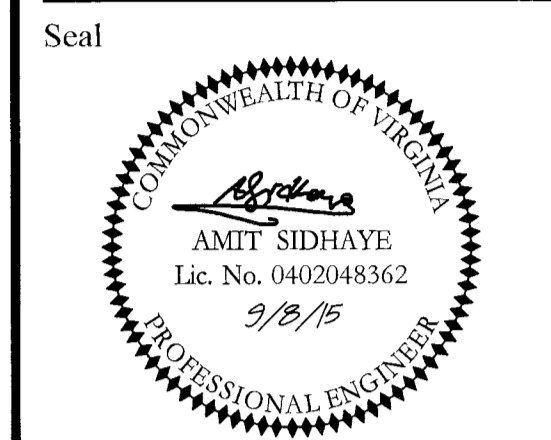
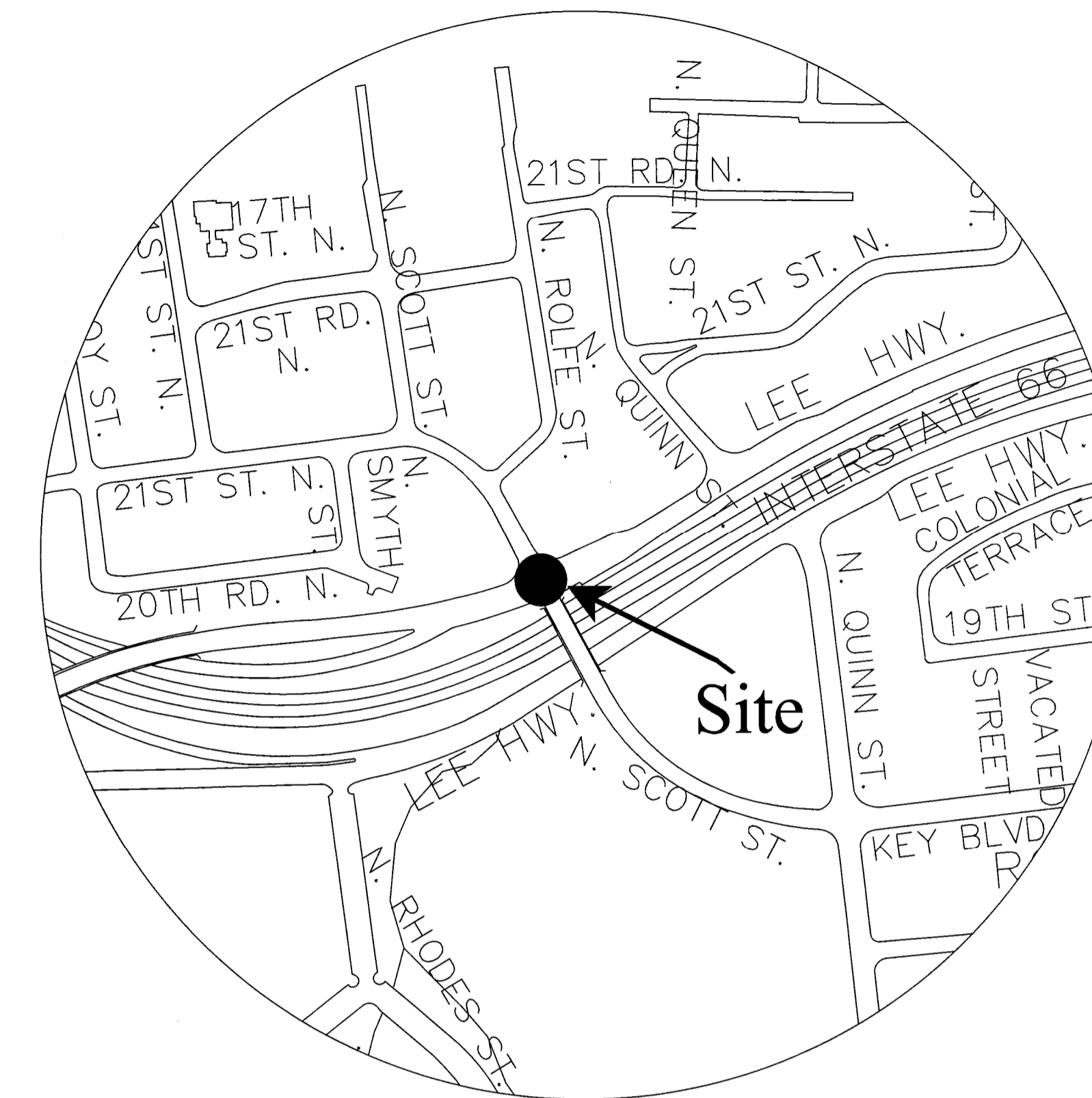
Lee Highway & N. Scott St. / Custis Trail

Intersection ID : 146

Location Map

Scale: N.T.S.

Vicinity



Approvals	Date
<i>NS</i> DESIGN TEAM SUPERVISOR	12/08/15
<i>AMT</i> ENGINEERING BUREAU CHIEF	12/08/15
<i>JSN</i> WATER, SEWER STREETS BUREAU CHIEF	12/08/15
<i>JSN</i> TRANSPORTATION DIRECTOR	12/08/15

Revisions	Date

Signal Notes

A. POLES AND FOUNDATIONS

- MAST ARM LENGTH IS TO BE AS SHOWN ON PLAN AND ALL MAST ARMS ARE TO BE FIELD DRILLED ONLY.
- MAST ARM POLES SHALL BE DESIGNED TO THE PROPER HEIGHT TO ACCOMMODATE A STREET LIGHT LUMINAIRE AND INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS.
- MAST ARM POLE FOUNDATIONS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS, LATEST EDITION. ALL POLES SHALL HAVE SIX BOLT PATTERN.
- THE COUNTY SHALL STAKE NEW POLE LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT MR. ALEXANDER TSYBIN AT 703-228-3723 TO SCHEDULE.
- AT THE COUNTY'S REQUEST, THE CONTRACTOR SHALL DIG TEST PITS TO VERIFY THAT SIGNAL POLE FOUNDATIONS WILL NOT CONFLICT WITH UNDERGROUND UTILITIES AND THAT FOUNDATIONS WILL FIT WITHIN EXISTING RIGHT-OF-WAY.
- SIGNAL POLES AND MAST ARMS SHALL BE ORNAMENTAL OR NON-ORNAMENTAL. POLES DESIGNATED AS ORNAMENTAL SHALL BE TRAFFIC STANDARD WITH 6' LUMINAIRE ARM (BY UNION METAL OR APPROVED SUBSTITUTE) UNLESS SPECIFIED OTHERWISE. COBRA LIGHTING SHALL BE LED TYPE - (LUMEC GPLM-180W98led4k-le3-120-bi-ph8-np). POLES DESIGNATED AS NON-ORNAMENTAL SHALL BE STANDARD ARLINGTON COUNTY POLES.

B. CONTROLLER AND FOUNDATION

- NEW CONTROLLER CABINETS SHALL BE TS2, P TYPE WITH BATTERY BACKUP PER ARLINGTON COUNTY REQUIREMENTS. ADD GENERATOR AND POLICE PANEL WITH RJ-45 SWITCH PER THE ARLINGTON COUNTY STANDARDS. INSTALL SFK MODEM TO BE COMPATIBLE WITH ARLINGTON COUNTY SYSTEM.
- CONTROLLER SHALL BE EIGHT PHASE INTELLIGHT TS2 X-1 IT SHALL CONTAIN THE LATEST FIRMWARE AND SHALL BE INSTALLED AND SET AS FOLLOWS:
2.1 TO REST IN PHASE 2 & 6 GREEN INTERVAL
2.2 TO START/RESTART IN PHASE 2 & 6 YELLOW CHANGE INTERVAL
- THE CONTROLLER CABINET AND FOUNDATION SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS TS4-1.1 AND TS4-1.2.
- THE COUNTY WILL PROVIDE SIGNAL TIMINGS TO THE CONTRACTOR FOR THE CONTROLLER WHEN THE INTERSECTION IS TOTALLY PREPARED FOR OPERATION. THE CONTRACTOR SHALL NOTIFY THE COUNTY IN WRITING 10 DAYS IN ADVANCE OF REQUIRING FINAL TIMINGS. THE COUNTY WILL INSTALL THE SYSTEM TIMINGS AND FINE TUNE AS NECESSARY.

C. TRAFFIC SIGNAL HEADS

- ALL NEW VEHICULAR SIGNAL SECTIONS SHALL BE 12 INCHES IN DIAMETER CAST ALUMINUM WITH LED DISPLAYS.
- PEDESTRIAN SIGNAL HEAD SECTIONS SHALL BE CAST ALUMINUM WITH LED DISPLAYS (COUNTDOWN).

D. DETECTORS

- ALL NEW PEDESTRIAN PUSH BUTTON STATIONS SHALL CONFORM TO ARLINGTON COUNTY'S SPECIFICATIONS FOR ACCESSIBLE SIGNAL DESIGN AND SHALL USE POLARA NAVIGATOR VIBRO-TACTILE/AUDIO PUSH BUTTON ASSEMBLIES UNLESS OTHERWISE SPECIFIED.
- NEW OVERHEAD VIDEO DETECTION SHALL BE FLIR CAMERAS AND SHALL BE INSTALLED IN ACCORDANCE WITH COUNTY REQUIREMENTS.
- EMERGENCY VEHICLE PRE-EMPTION (EVP) EQUIPMENT (GTT MODEL M711 OR M721), OR APPROVED SUBSTITUTE, SHALL BE INSTALLED COMPLETE WITH DISCRIMINATOR CARDS, WIRING, ETC. IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS.

E. CONDUIT, CONDUCTORS, AND ELECTRICAL

- ALL JUNCTION BOXES SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS TS4-4-5 AND/OR TS4-6. NEW JUNCTION BOX COVERS SHALL HAVE THE LETTERS "ARLINGTON COUNTY TRANSPORTATION" CAST IN THE TOP SURFACE DEPRESSION FOR ALL TRAFFIC SIGNAL RELATED JUNCTION BOXES CONTAINING CABLE WITH LESS THAN 50 VOLTS. COMMUNICATION CABLE RELATED JUNCTION BOXES SHALL HAVE BOLTED LIDS PER T4-5.2.
- METER PEDESTAL SHALL MATCH COUNTY STANDARDS. UNDERGROUND SERVICE SHALL BE OBTAINED FROM THE NEAREST UTILITY POLE OR SERVICE POINT. CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL AND COORDINATING WITH POWER SERVICE COMPANY FOR CONNECTION.
- ALL CONDUIT ENTERING INTO JUNCTION BOXES SHALL NOT EXTEND OVER 3" MAXIMUM NOR 2" MINIMUM INSIDE THE JUNCTION BOXES, AND SHALL BE FITTED WITH BELL ENDS OR BUSHING.
- ALL JUNCTION BOXES SHALL HAVE A GROUND ROD INSTALLED.
- CONTRACTOR IS TO VERIFY DEPTHS OF UTILITIES AT PROPOSED CONDUIT CROSSINGS PRIOR TO EXCAVATING CONDUIT TRENCHES.
- ALL CONDUITS PASSING BENEATH ROADWAYS SHALL BE DIRECTIONAL DRILLED. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND AVOIDING ALL UNDERGROUND UTILITIES DURING CONSTRUCTION ACTIVITIES.
- ALL EXISTING CONDUIT AND CABLES ARE BASED ON RECORD DRAWINGS OR WERE ESTIMATED. CONTRACTOR SHALL VERIFY CONDUIT FILL CAPACITY IN EXISTING CONDUITS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY IF CONDUIT CAPACITY IS NOT AVAILABLE IN EXISTING CONDUIT FOR NEW CABLES.
- NEW CCTV CAMERAS SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY REQUIREMENTS.

- NEW LED SIGNS SHALL BE INSTALLED BASED ON MANUFACTURER'S SPECIFICATIONS. CONTRACTOR SHALL PROVIDE CABLE, MOUNTING BRACKET, AND TIME SWITCH ASSOCIATED WITH LED SIGN. TIME SWITCH SHALL CONTAIN A PROGRAMMABLE TIME CLOCK WITH MULTIPLE ON/OFF'S.

F. SIGNS

- ALL MAST ARM SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS. SIGNS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- STREET NAME SIGNS SHALL HAVE A WHITE LEGEND ON GREEN BACKGROUND. THE FONT SHALL BE HIGHWAY FONT. CONTRACTOR SHALL SUBMIT SIGN DETAILS TO COUNTY TO REVIEW. THE DIMENSIONS PROVIDED ON PLANS ARE ESTIMATED.

G. DEMOLITION/SALVAGE

- ALL EXISTING SIGNAL EQUIPMENT IS TO BE REMOVED & RETURNED TO ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES LOCATED AT 4300 29TH ST S., ARLINGTON, VA 22206.

Table of Contents:

- T-1 Cover Sheet
- T-2 Traffic Signal Plan
- * T-3 Quantities
- T-4 Signal Communication Plan
- * Omitted from bid set.

ALL TRAFFIC SIGNALS ARE OWNED, MAINTAINED AND OPERATED BY ARLINGTON COUNTY. ALL SIGNAL DESIGNS SHALL BE IN ACCORDANCE WITH COUNTY TRAFFIC SIGNAL AND STREETLIGHT SPECIFICATIONS.

I CERTIFY THAT THIS PROJECT WAS BUILT IN SUBSTANTIAL CONFORMANCE WITH THIS PLAN, UNLESS DULY NOTED IN THE ABOVE REVISION BLOCK.

PROJECT MANAGER _____	DATE _____
CONSTRUCTION MANAGER _____	DATE _____

Project Name and Location
Traffic Signal Design
Cover Sheet
Lee Highway & N. Scott St.
Custis Trail
313.43513.D29S.S16.000

Designed: RGS
Drawn: RGS
Checked: JSN
Miss Utility Transmittal #:

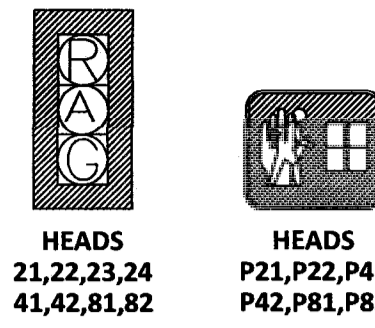
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Path: G:\Data\Traffic\Drawings\Lee Highway\N. Scott St\Drawings
Plotted: September 08, 2015
Plotted by: Rsalas
Scale: N.T.S.

Lee Highway & N. Scott St.

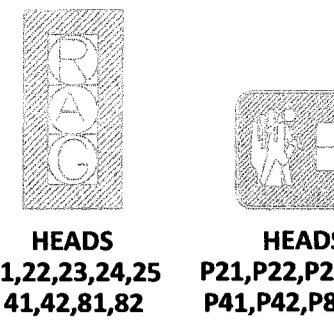
Traffic Signal Design

TS # 146

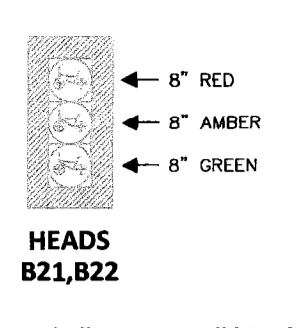
PROPOSED SIGNALS



EXISTING SIGNALS (TO BE REMOVED)

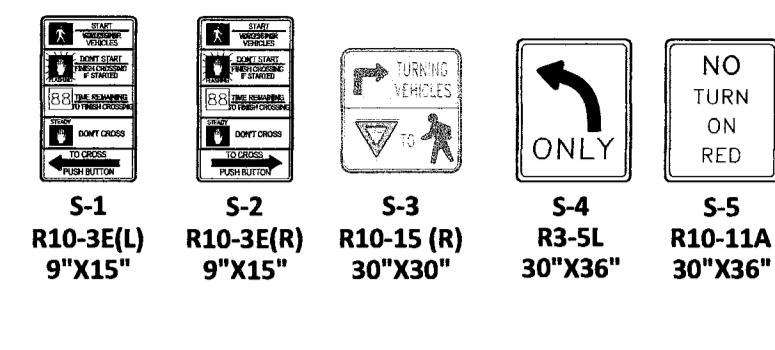


EXISTING BICYCLE SIGNALS (TO BE RELOCATED)

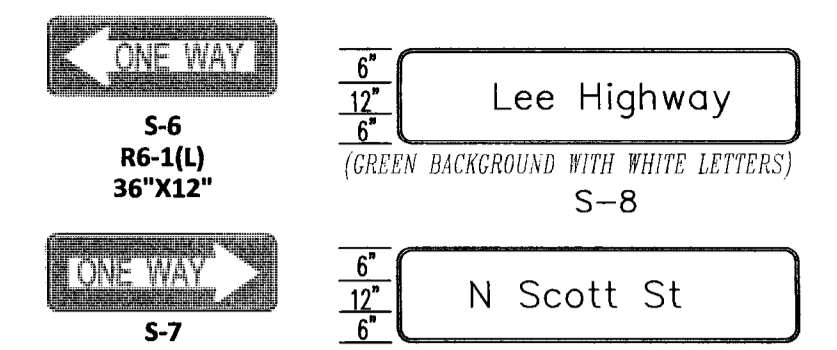


NOTE: Contractor shall not reinstall bicycle signals without written permission from county traffic signal engineer.

PROPOSED SIGNS



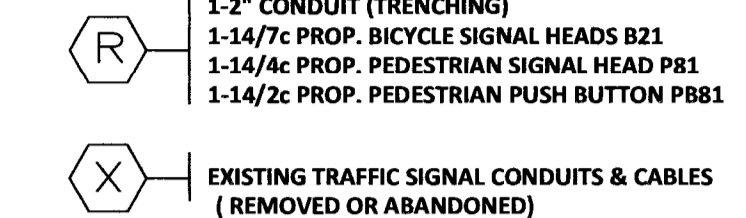
PROPOSED STREET SIGN



CONDUIT & CABLE

- 2-3" CONDUIT (TRENCHING)
 - 3-14/7c PROP. VEHICLE SIGNAL HEADS 21,22,23,24,41,42,81,82
 - 2-14/7c PROP. BICYCLE SIGNAL HEADS B21,B22
 - 6-14/7c PROP. PEDESTRIAN SIGNALS HEADS P21,P22,P41,P42,P81,P82
- 1-3" CONDUIT (TRENCHING)
 - 6-14/4c PROP. CABLE LUMINAIRE SL1,SL2,SL3,SL4,SL5,SL6
- 1-3" CONDUIT (TRENCHING)
 - 6-14/2c PROP. PEDESTRIAN PUSH BUTTON PB21,PB22,PB41,PB42,PB81,PB82
- 1-3" CONDUIT (TRENCHING)
 - 3-14/5c PROP. CABLE VIDEO DETECTION VDB
 - 3-14/5c PROP. CABLE OPTICOM GTT EVP PE2,PE4,PE8
 - 1-14/5c PROP. CABLE FOR CCTV CAMERA
 - 1-3" CONDUIT (TRENCHING) SPARE
- 1-2" CONDUIT (TRENCHING)
 - 1-14/7c PROP. VEHICLE SIGNAL HEADS 21,22,23,24
 - 1-14/4c PROP. CABLE LUMINAIRE SL1
- 1-2" CONDUIT (TRENCHING)
 - 1-14/5c CCTV CAMERA
 - 1-14/5c PROP. CABLE OPTICOM GTT EVP PE2
 - 1-14/5c PROP. CABLE VIDEO DETECTION VD2
- 1-2" CONDUIT (TRENCHING)
 - 1-14/7c PROP. PEDESTRIAN SIGNAL P21
 - 1-14/4c PROP. CABLE LUMINAIRE SL2
- 1-2" CONDUIT (TRENCHING)
 - 1-14/2c PROP. PEDESTRIAN PUSH BUTTON PB21
- 1-3" CONDUIT (BORING)
 - 1-14/7c PROP. VEHICLE SIGNAL HEADS 81,82
 - 1-14/7c PROP. PEDESTRIAN SIGNAL HEAD PB2
 - 1-14/4c PROP. CABLE LUMINAIRE SL6
- 1-3" CONDUIT (BORING)
 - 1-14/2c PROP. PEDESTRIAN PUSH BUTTON PB82
 - 1-14/5c PROP. CABLE VIDEO DETECTION VDB
 - 1-14/5c PROP. CABLE OPTICOM GTT EVP PE8
- 1-2" CONDUIT (TRENCHING)
 - 1-14/7c PROP. VEHICLE SIGNAL HEADS 81,82
 - 1-14/7c PROP. PEDESTRIAN SIGNAL HEAD PB2
 - 1-14/4c PROP. CABLE LUMINAIRE SL6
- 1-2" CONDUIT (TRENCHING)
 - 1-14/2c PROP. PEDESTRIAN PUSH BUTTON PB82
 - 1-14/5c PROP. CABLE VIDEO DETECTION VDB
 - 1-14/5c PROP. CABLE OPTICOM GTT EVP PE8
- 1-3" CONDUIT (BORING)
 - 1-14/7c PROP. VEHICLE SIGNAL HEADS 41,42
 - 1-14/7c PROP. PEDESTRIAN SIGNAL HEAD P22
 - 1-14/7c PROP. BICYCLE SIGNAL HEADS B22
 - 3-14/4c PROP. CABLE LUMINAIRE SL3,SL4,SL5
- 1-3" CONDUIT (BORING)
 - 3-14/2c PROP. PEDESTRIAN PUSH BUTTON PB22,PB41,PB42
 - 1-14/5c PROP. CABLE VIDEO DETECTION VD4
 - 1-14/5c PROP. CABLE OPTICOM GTT EVP PE4
- 1-2" CONDUIT (TRENCHING)
 - 1-14/7c PROP. VEHICLE SIGNAL HEADS 41,42
 - 1-14/7c PROP. PEDESTRIAN SIGNAL HEAD P22
 - 1-14/4c PROP. CABLE LUMINAIRE SL3
- 1-2" CONDUIT (TRENCHING)
 - 1-14/2c PROP. PEDESTRIAN PUSH BUTTON PB22
 - 1-14/5c PROP. CABLE VIDEO DETECTION VD4
 - 1-14/5c PROP. CABLE OPTICOM GTT EVP PE4
- 1-3" CONDUIT (BORING)
 - 1-14/7c PROP. PEDESTRIAN SIGNAL HEAD P42
 - 1-14/4c PROP. CABLE LUMINAIRE SL5
- 1-3" CONDUIT (BORING)
 - 1-14/2c PROP. PEDESTRIAN PUSH BUTTON PB42
 - 1-14/5c PROP. CABLE VIDEO DETECTION VD4
 - 1-14/5c PROP. CABLE OPTICOM GTT EVP PE4
- 1-2" CONDUIT (TRENCHING)
 - 1-14/7c PROP. PEDESTRIAN SIGNAL HEAD P42
 - 1-14/4c PROP. CABLE LUMINAIRE SL5
- 1-2" CONDUIT (TRENCHING)
 - 1-14/2c PROP. PEDESTRIAN PUSH BUTTON PB42
- 4-2" CONDUIT (EXISTING)
 - 1-12 STRAND FIBER OPTIC CABLE (EXISTING)
- 2-2" CONDUIT (EXISTING)
 - 1-12 STRAND FIBER OPTIC CABLE (EXISTING) (RE-ROUTE)
- 4-2" CONDUIT (EXISTING)
 - 1-12 STRAND FIBER OPTIC CABLE (EXISTING)
- 2-2" CONDUIT (TRENCHING)
 - 1-12 STRAND FIBER OPTIC CABLE (PROPOSED)
- 1-2" CONDUIT (TRENCHING)
 - 1-6/3c ELECTRICAL SERVICE CABLE (PROPOSED)
- 1-2" CONDUIT (TRENCHING)
 - 1-6/3c ELECTRICAL SERVICE CABLE (PROPOSED)
- 1-3" CONDUIT (TRENCHING)
 - 1-6/3c ELECTRICAL SERVICE CABLE (PROPOSED)

NOTE: STREET SIGN SHOULD BE INSTALLED CLOSE TO THE SIGNAL POLE.

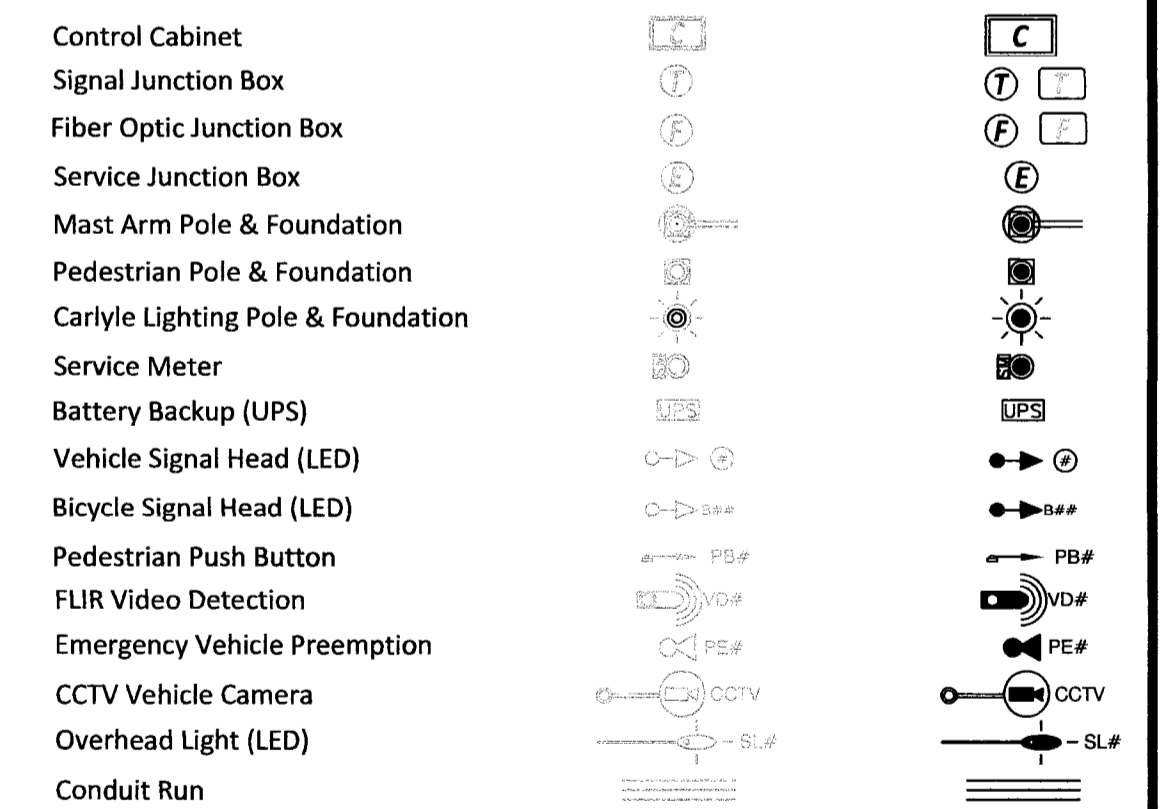


- NOTES:
- ALL PROPOSED CONDUITS SHOULD BE HDPE SCHEDULE 40.
 - ALL PROPOSED CONDUIT SHOULD HAVE #6 AWG (EGC) FOR GROUNDING SYSTEM AND TRACER WIRE.
 - CONTRACTOR TO VERIFY THE CONDUIT AND % FILL. IF THERE IS NOT ENOUGH CAPACITY IN CONDUIT, THEN THE CONTRACTOR SHALL INSTALL NEW CONDUIT.

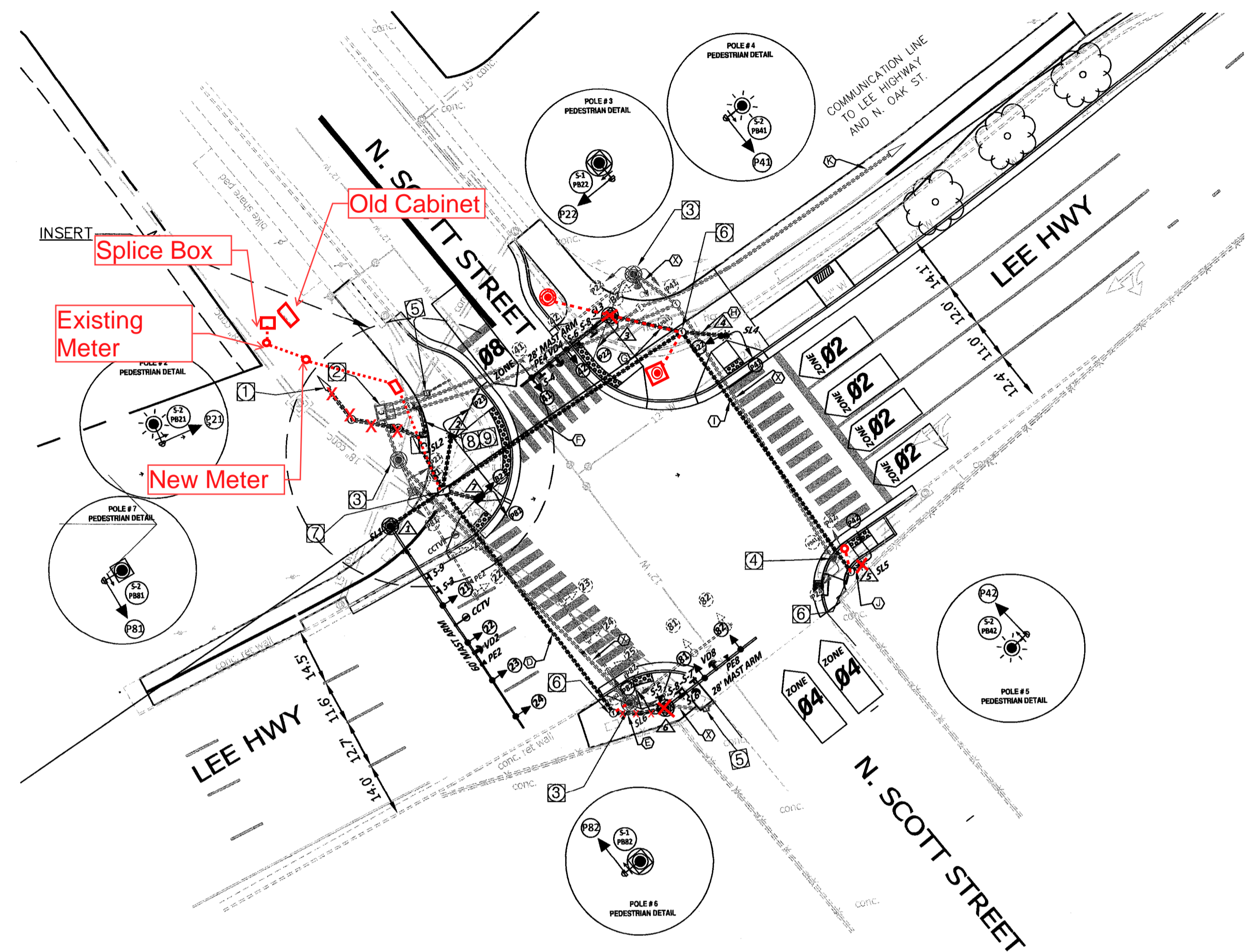
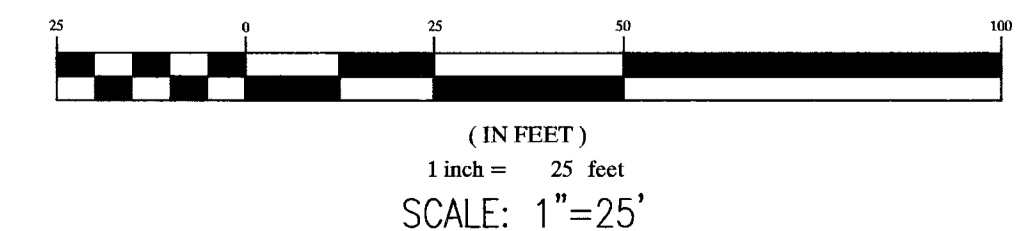
DEMOLITION & CONSTRUCTION NOTES

- CONTRACTOR SHALL COORDINATE WITH DWP TO DETERMINE SOURCE OF ELECTRICAL SERVICE.
- REMOVE EXISTING TRAFFIC SIGNAL CABINET. SALVAGE EQUIPMENT TO BE RETURNED TO ARLINGTON COUNTY PROPERTY YARD.
- REMOVE EXISTING MAST ARM POLE AND FOUNDATION. SALVAGE EQUIPMENT AND RETURN TO ARLINGTON COUNTY PROPERTY YARD.
- REMOVE EXISTING STREETLIGHT POLE AND FOUNDATION. SALVAGE EQUIPMENT AND RETURN TO ARLINGTON COUNTY PROPERTY YARD.
- REMOVE EXISTING LOOP BOX. SALVAGE EQUIPMENT AND RETURN TO ARLINGTON COUNTY PROPERTY YARD.
- INSTALL ARLINGTON STANDARD JB TS4-5.1
- INSTALL ARLINGTON STANDARD JUNCTION BOX TS4-6
- RE-ROUTE EXISTING FIBER OPTIC CABLE TO THE NEW TRAFFIC SIGNAL CABINET. SEE COMMUNICATION PLAN FOR DETAILS.
- REPLACE EXISTING JUNCTION BOX WITH TS4-6. ENSURE FIBER CABLES REMAIN UNDAMAGED DURING INSTALLATION.

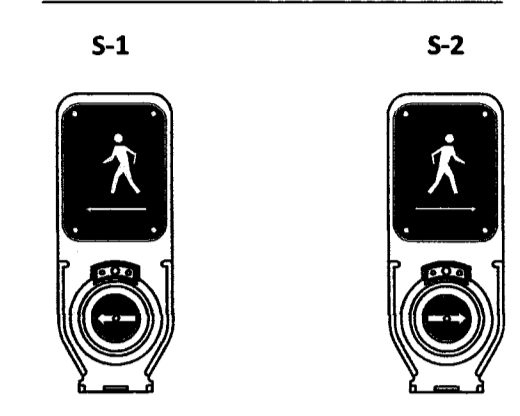
LEGEND



GRAPHIC SCALE

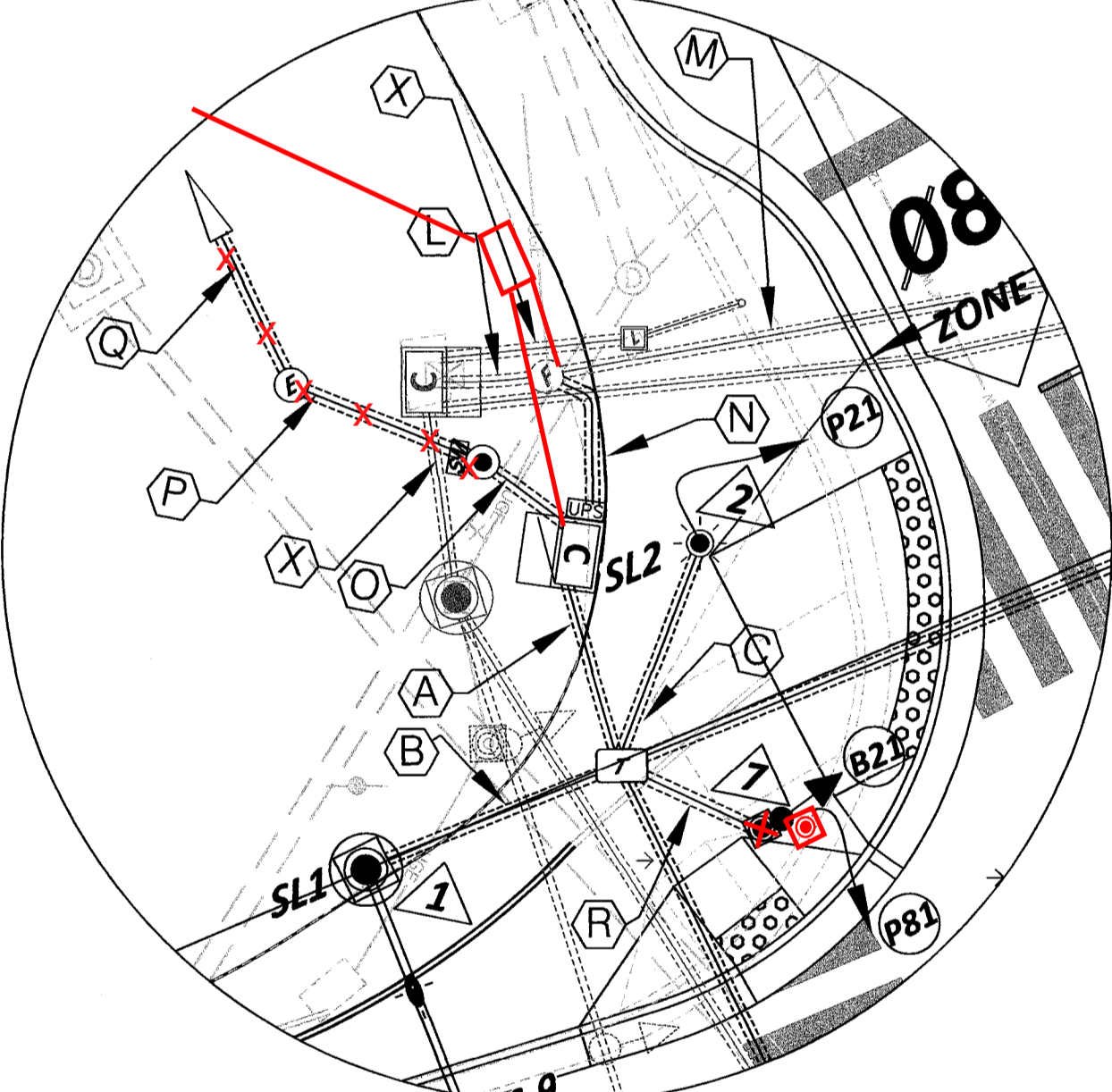


PROPOSED ACCESSIBLE PUSHBUTTON SYSTEM (APS)



- ACCESSIBLE PUSHBUTTON SYSTEM SHALL BE POLARA SYSTEM CONFORMING TO ARLINGTON COUNTY SPECIFICATION AND SHALL INCLUDE A POLARA CENTRAL CONTROL UNIT.
- PUSHBUTTONS PB21,PB22 SHALL HAVE A PERCUSSIVE TONE WALK INDICATION.
- PUSHBUTTONS PB41,PB42,PB81,PB82 SHALL HAVE THE FOLLOWING SPEECH WALK MESSAGE "LEE HIGHWAY, WALK SIGN IS ON TO CROSS LEE HIGHWAY."

INSERT (SCALE: 1"=10')



INITIAL TIMING CHART

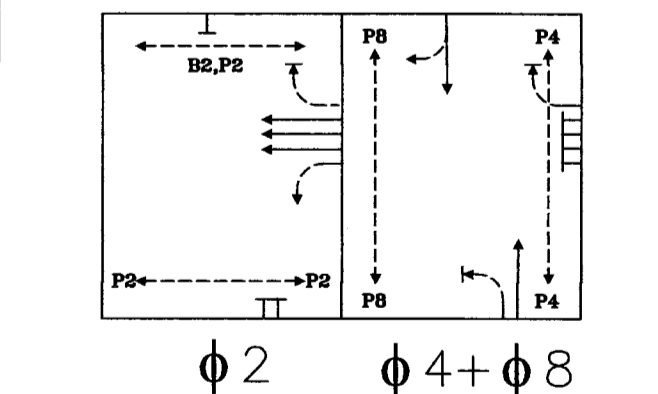
PHASE	2	4	8
MOVEMENT	WB	NB	SB
PHASE ON	X	X	X
PHASE OFF			
PHASE TIMINGS			
MIN. GR.	20.0	20.0	20.0
PASSAGE	0.0	0.0	0.0
AMBER	4.0	4.0	4.0
RED	2.0	3.0	3.0
MAX 1	40.0	40.0	40.0
MAX 2	0.0	0.0	0.0
MIN. CAP.	0.0	0.0	0.0
TIME BEFORE REDUCING	0.0	0.0	0.0
TIME TO REDUCE	0.0	0.0	0.0
PED. WALK	7.0	7.0	7.0
POD CLEARANCE	9.0	15.0	15.0
MODE			

COLOR SEQUENCE CHART

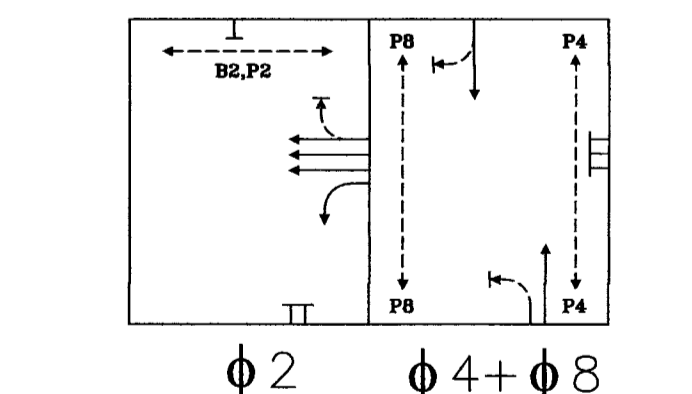
PHASE	2	4	8	4+8
SIGNAL	R/W	R/W	R/W	R/W
21,22,23,24	G	R	R	A
41,42	R	G	R	G
B1,B2	R	R	G	G
P2,B2	WALK			BLANK
P4		WALK		BLANK
P8			WALK	BLANK

NOTE: BLANK SPACES REPRESENT A RED DISPLAY. WALK INDICATION DISPLAYED AFTER PEDESTRIAN CALL IS SERVICED; OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.

EXISTING PHASING DIAGRAM



PROPOSED PHASING DIAGRAM



POLE SIGNAL MOUNTING

No.	STANDARD			POLE SIGNAL MOUNTING				STREET NAME SIGN	
	TYPE	SIG. M.A.	LUM. M.A.	VEHICLE, BICYCLE & PEDESTRIAN HEADS	PED. PUSH BUTTONS	SIGNS	VIDEO DETECTOR PREEMPTION & CCTV		
▲	MAST ARM POLE 16'	60'	6'	180W	21,22,23,24	PB21	S-3	PE2,VD2,CCTV	S-9
▲	CARLYLE POLE 16'	-	-	57.69W	P21	PB21	S-2	-	-
▲	MAST ARM POLE 16'	28'	6'	180W	41,42,P22	PB22	S-1,S-4,S-6	VD4,PE4	S-8
▲	CARLYLE POLE 16'	-	-	57.69W	P41,B22	PB41	S-2	-	-
▲	CARLYLE POLE 16'	-	-	57.69W	P42	PB42	S-2	-	-
▲	MAST ARM POLE 16'	28'	6'	180W	81,82,PB2	PB82	S-1,S-5,S-7	VD8,PE8	S-8
▲	PEDESTAL POLE 16'	-	-	-	B21,P81	PB81	S-2	-	-

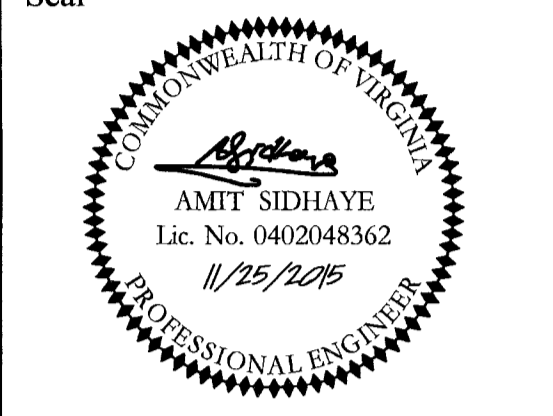
- EVP to be mounted on vehicle head mounting bracket or as approved by the engineer in the field.
- All signal heads shall be yellow in color and equipped with LED type lens.
- Cobra lighting shall be LED type (LUMEC GPLM-180W98led4k-le3-120-bl-ph8-np).
- Post top, single globe shall be HADCO LED Kit (Relema UAZ XRE LED 57.69W).
- CCTV camera to be mounted on gooseneck arm.



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606

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Approvals Date
 DESIGN TEAM SUPERVISOR 12/08/15
 ENGINEERING BUREAU CHIEF
 WATER SEWER STREETS BUREAU CHIEF
 TRANSPORTATION DIRECTOR

Revisions	Date

Traffic Signal Design
 Traffic Signal Plan
 Lee Highway & N. Scott St.
 Custis Trail

Designed: RGS
 Drawn: RGS
 Checked: JSN
 Miss Utility Transmittal #:

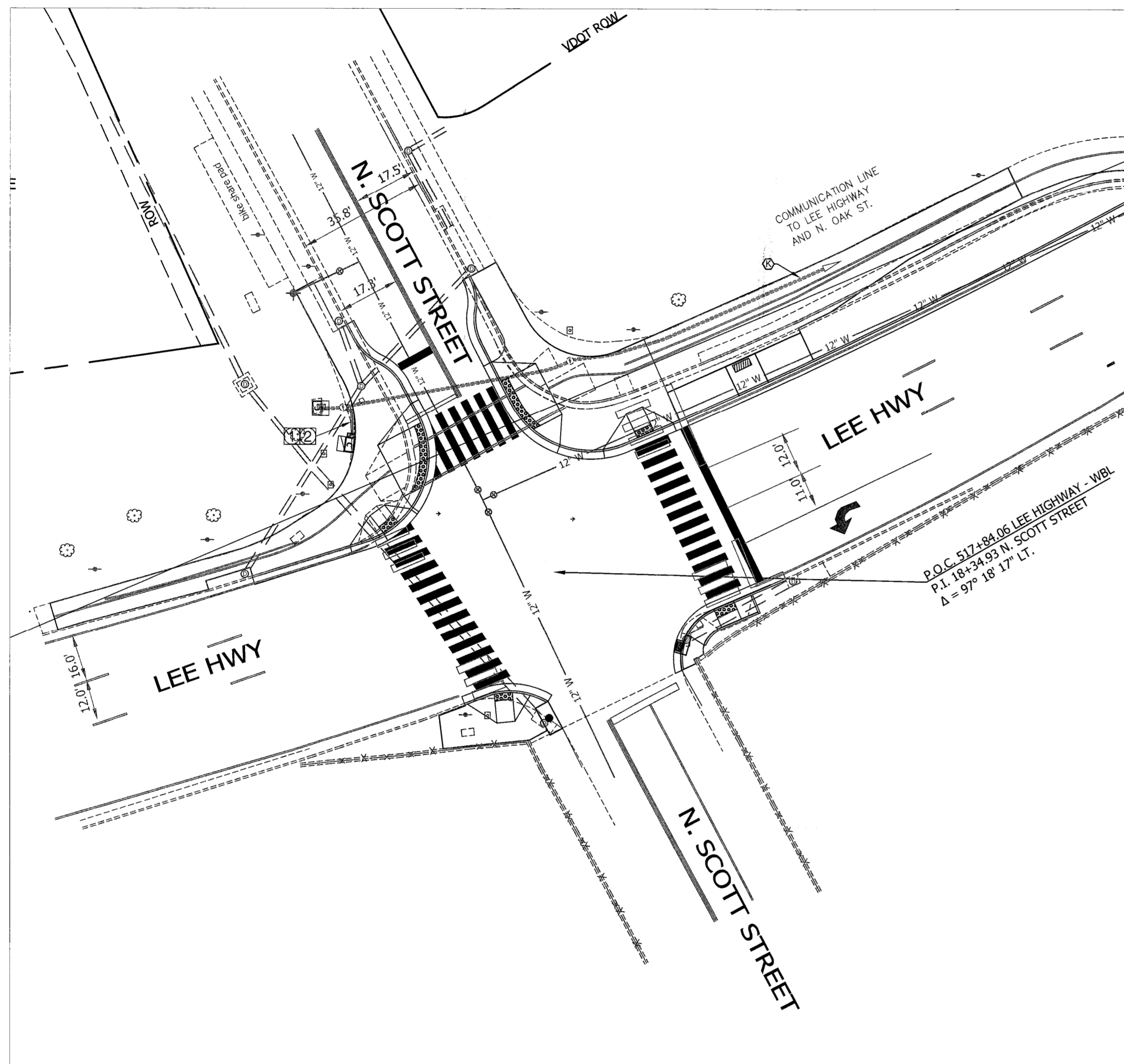
Filename: 146_Lee Hwy & N. Scott St (Custis Trail).TSD.dwg
 Path: C:\Data\Traffic\Lee Highway\N. Scott St\Drawings
 Plotted: November 25, 2015
 Plotted by: jnicholas

Scale: As Noted

Lee Highway & N. Scott St.

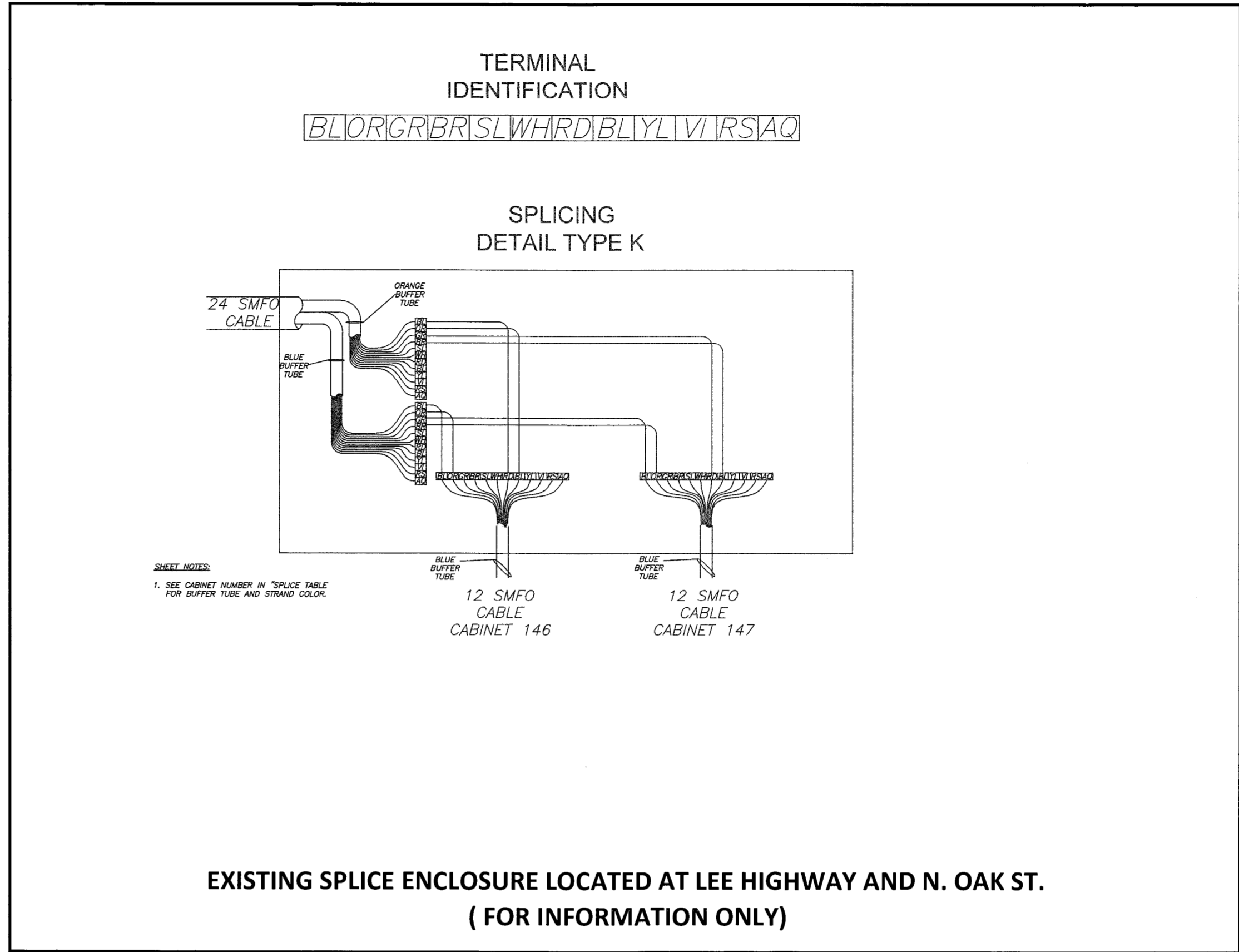
Signal Communication Plan

TS # 146



NOTES: FIBER COMMUNICATION

1. THE CONTRACTOR SHALL MAINTAIN EXISTING FIBER COMMUNICATION THROUGH CONSTRUCTION.
2. THE CONTRACTOR SHALL CUT EXISTING 12-STRAND CABLE IN EXISTING JUNCTION BOX. NO CUTS SHALL BE MADE WITHOUT PRIOR PERMISSION FROM ARLINGTON COUNTY DTS.
3. CONTRACTOR SHALL INSTALL NEW PATCH PANEL/PICTAIL AND SPLICE SHALL BE PER ARLINGTON COUNTY "LAST MILE" SPECIFICATIONS. CONTRACTOR TO FURNISH AND INSTALL NEW SPLICE ENCLOSURE WITHIN COMMUNICATIONS JUNCTION BOX.
4. ALL COMMUNICATION WORK SHALL FOLLOW COUNTY STANDARDS AND BE PERFORMED BY A QUALIFIED CONTRACTOR.
5. COORDINATE ALL FIBER CUTS, SPLICES AND TESTING WITH ARLINGTON COUNTY DTS.



CONSTRUCTION NOTES

1. RE-ENTER EXISTING JUNCTION BOX AND INSTALL CONDUIT TO THE NEW CABINET.
2. RE-SPLICE NEW FIBER OPTIC CABLE FROM JUNCTION BOX & NEW TRAFFIC SIGNAL CABINET.

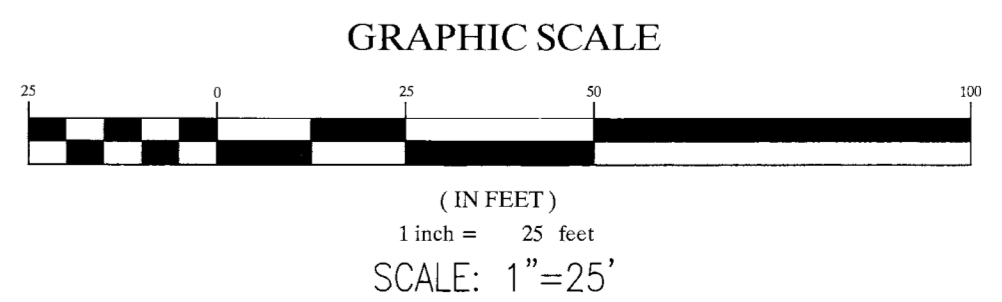
CONDUIT & CABLE

- K** 2-2" CONDUIT (EXISTING)
1-12 STRAND FIBER OPTIC CABLE (EXISTING)
- L** 2-2" CONDUIT (EXISTING)
1-12 STRAND FIBER OPTIC CABLE (EXISTING)
- M** 2-2" CONDUIT (EXISTING)
1-12 STRAND FIBER OPTIC CABLE (EXISTING)
- N** 2-2" CONDUIT (TRENCHING)
1-12 STRAND FIBER OPTIC CABLE (PROPOSED)

- NOTES:**
1. ALL NEW CONDUITS SHOULD BE HDPE SCHEDULE 40.
 2. ALL PROPOSED CONDUIT SHOULD HAVE #6 AWG (EGC) FOR GROUNDING SYSTEM.
 3. PROPOSED COMMUNICATION CONDUIT SHOULD HAVE A PULL WIRE FOR FUTURE FIBER OPTIC CABLE.
 4. ALL NEW CONDUIT SHALL HAVE TRACER WIRE.

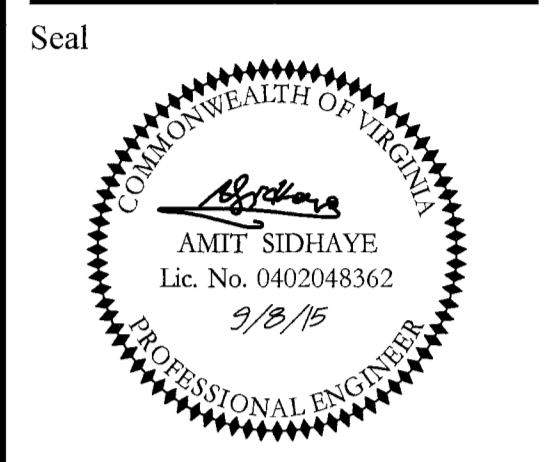
LEGEND

	EXISTING	PROPOSED
Control Cabinet		
Signal Junction Box		
Fiber Optic Junction Box		
Service Junction Box		
Mast Arm Pole & Foundation		
Conduit Run		



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3344
Fax: 703.228.3719



Approvals Date
DESIGN TEAM SUPERVISOR 12/08/15

ENGINEER & O. BUREAU
TRAFFIC SIGNAL ENGINEER
DEPARTMENT OF TRANSPORTATION

Revisions Date

Project Name and Location
Traffic Signal Design
Signal Communication Plan
Lee Highway & N. Scott St.
Custis Trail
313.43513.D295S.S16.000

Designed: RGS
Drawn: RGS
Checked: JSN
Miss Utility Transmittal #:
Filename: 146_Lee Hwy & N. Scott St (Custis Trail).dwg
Path: Q:\Data\Traffic\Draws\Lee Highway\N. Scott St\Drawings\146_Lee Hwy & N. Scott St (Custis Trail).dwg
Plotted: Sep 08, 2015
Plotted by: Rsalas
Scale: As Noted

Sheet **T-4**

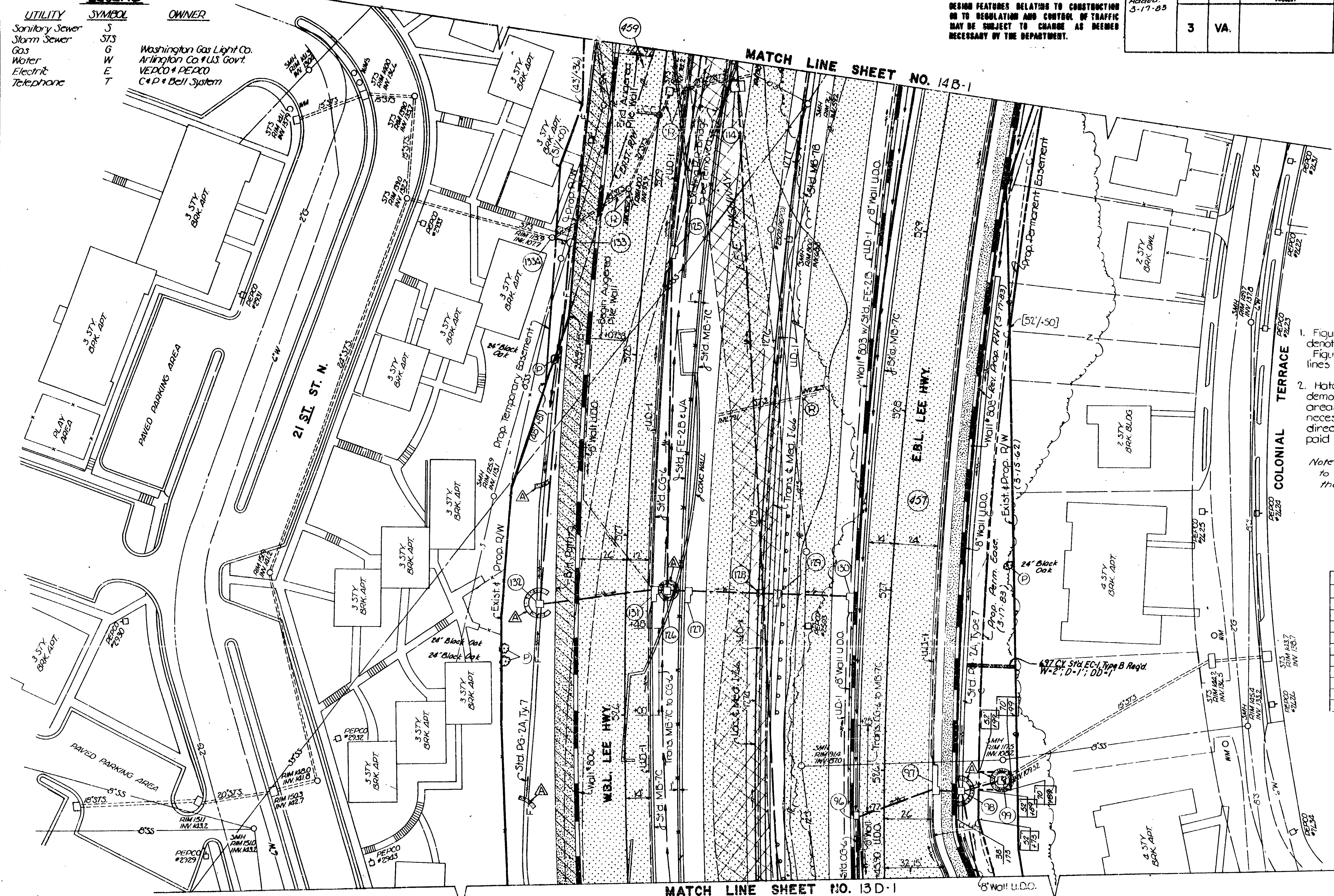
LEGEND

UTILITY	SYMBOL	OWNER
Sanitary Sewer	S	
Storm Sewer	STS	
Gas	G	Washington Gas Light Co.
Water	W	Arlington Co. & US Govt.
Electric	E	VEPCO & PEPCO
Telephone	T	C&P & Bell System

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

REVISION	DATE	STATE	FEDERAL AID	ROUTE	STATE	PROJECT	SHEET NO.
Added	3-17-85	VA.		66		0066-000-102 RW-206	14A-1

MATCH LINE SHEET NO. 14B-1

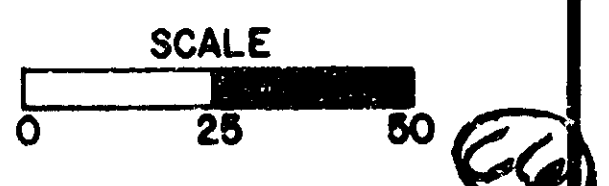


- NOTES**
- Figures in brackets and dot-dash lines denote permanent easements. Figures in parenthesis and dot-dash lines denote temporary easements.
 - Hatched areas denote areas of demolition of pavement. Additional areas of demolition of pavement necessary for construction or as directed by the Engineer will be paid for as demolition of pavement.

Note: Trees shown by symbol (P) are to be protected as directed by the Engineer.

CROSS REFERENCE S

ITEM	SHT. NO.
Profile I 66	8A
Profile Lee Hwy.	7A & 7B
Profile B/H	3B
Alignment Data	1E & 1F
Wall's	2S
Erosion Control Details	2N
Utility Relocations	2I ()
Median Barrier Transition	2E
Storm Drain Profiles	20D & 20F
Drainage Data	10A



MATCH LINE SHEET NO. 13D-1

REVISED	FHWA REGION	STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
Added: 3-17-83	3	VA.		66	0066-000-1C2 RW-206	14B-1

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

LEGEND

UTILITY	SYMBOL	OWNER
Sanitary Sewer	S	
Storm Sewer	S7S	
Gas	G	Washington Gas Light Co.
Water	W	Arlington Co. & U.S. Govt.
Electric	E	VEPCO & PEPCO
Telephone	T	C&P & Bell Co.

NOTE
Underground Tanks to be removed when station is demolished

MATCH LINE SHEET NO. 14C-1

① Conveyed to Air Force Association, a District of Columbia non-profit corporation, by deed dated May 10, 1983.

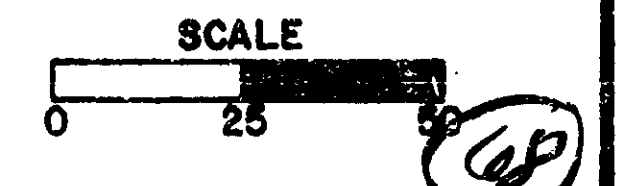
NOTES

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Figures in parenthesis and dot-dot-dash lines denote temporary easements.
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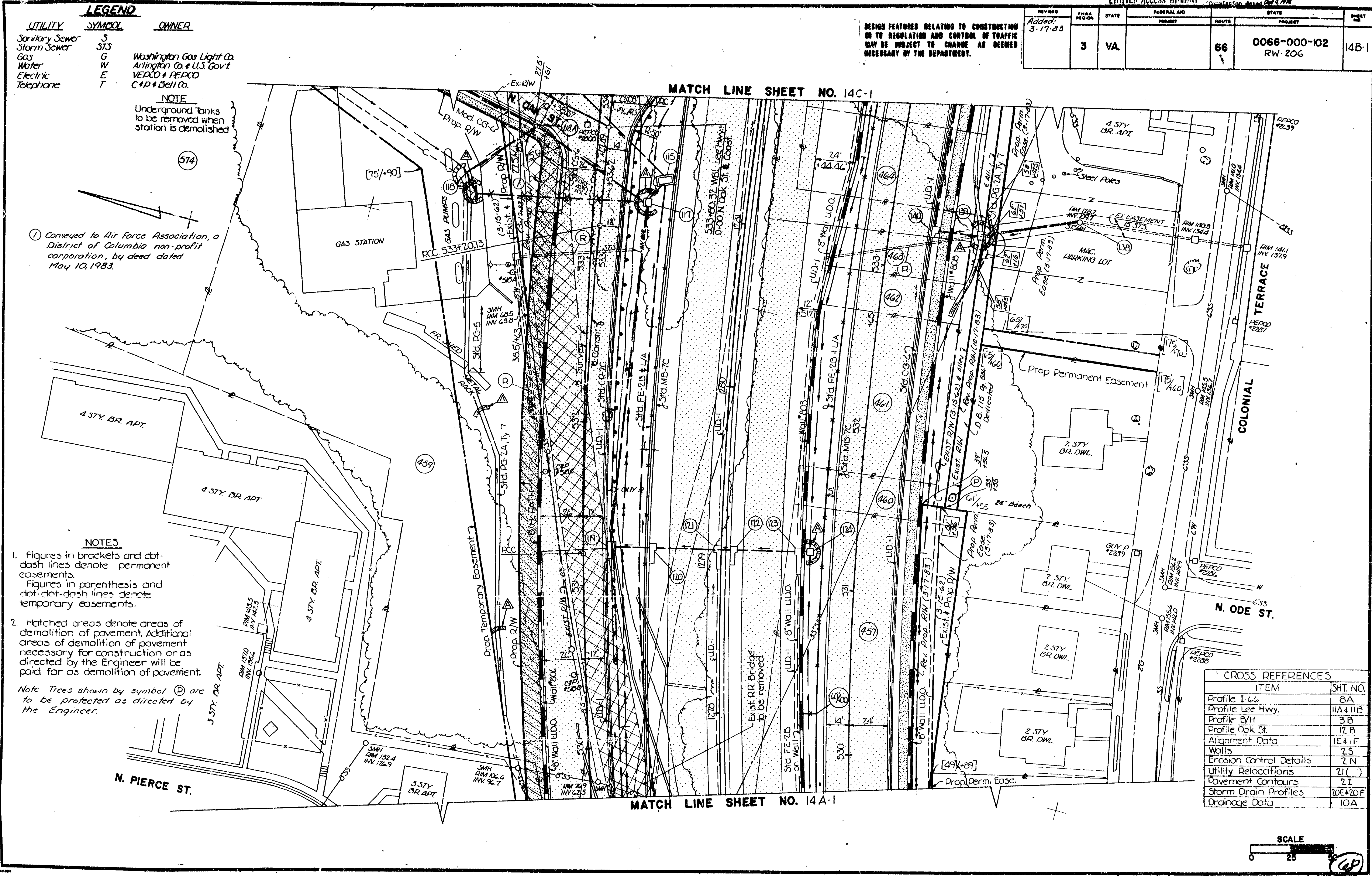
Note Trees shown by symbol (D) are to be protected as directed by the Engineer.

CROSS REFERENCES

ITEM	SHT. NO.
Profile I-66	8A
Profile Lee Hwy.	11A & 11B
Profile B/H	3B
Profile Oak St.	12B
Alignment Data	1E & 1F
Walls	2S
Erosion Control Details	2N
Utility Relocations	2I ()
Pavement Contours	2I
Storm Drain Profiles	20E & 20F
Drainage Data	10A



MATCH LINE SHEET NO. 14A-1



REVISED	BY	DATE	STATE	FEDERAL AID	ROUTE	STATE	PROJECT	SHEET NO.
2-15-80								
4-8-81								
	3	VA.			66		0066-000-102 C-508	21-3

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

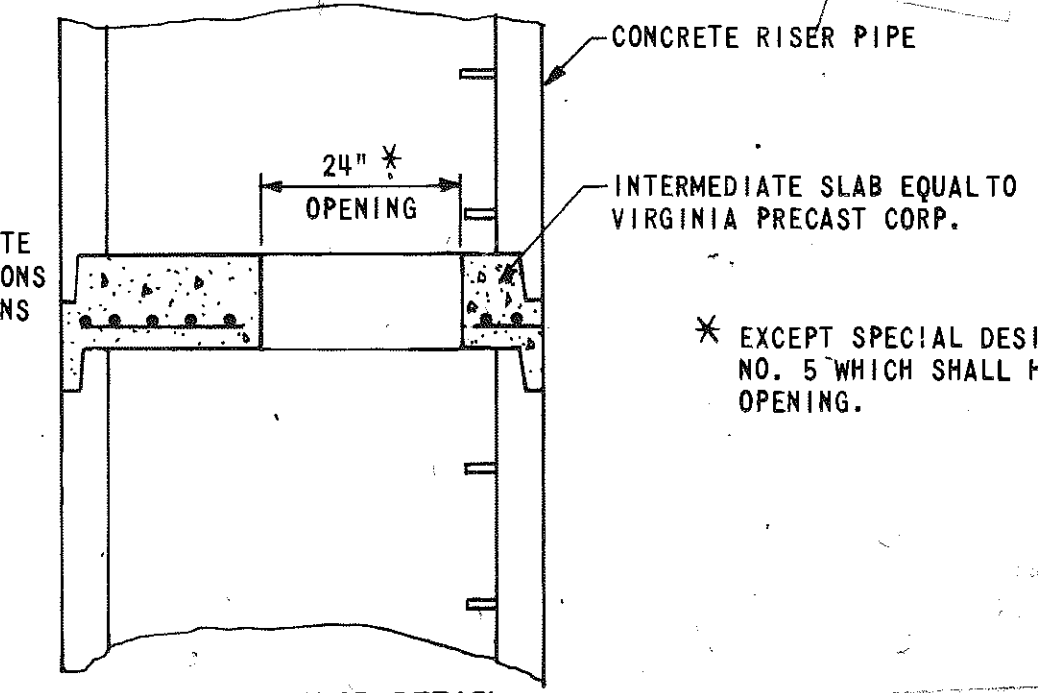
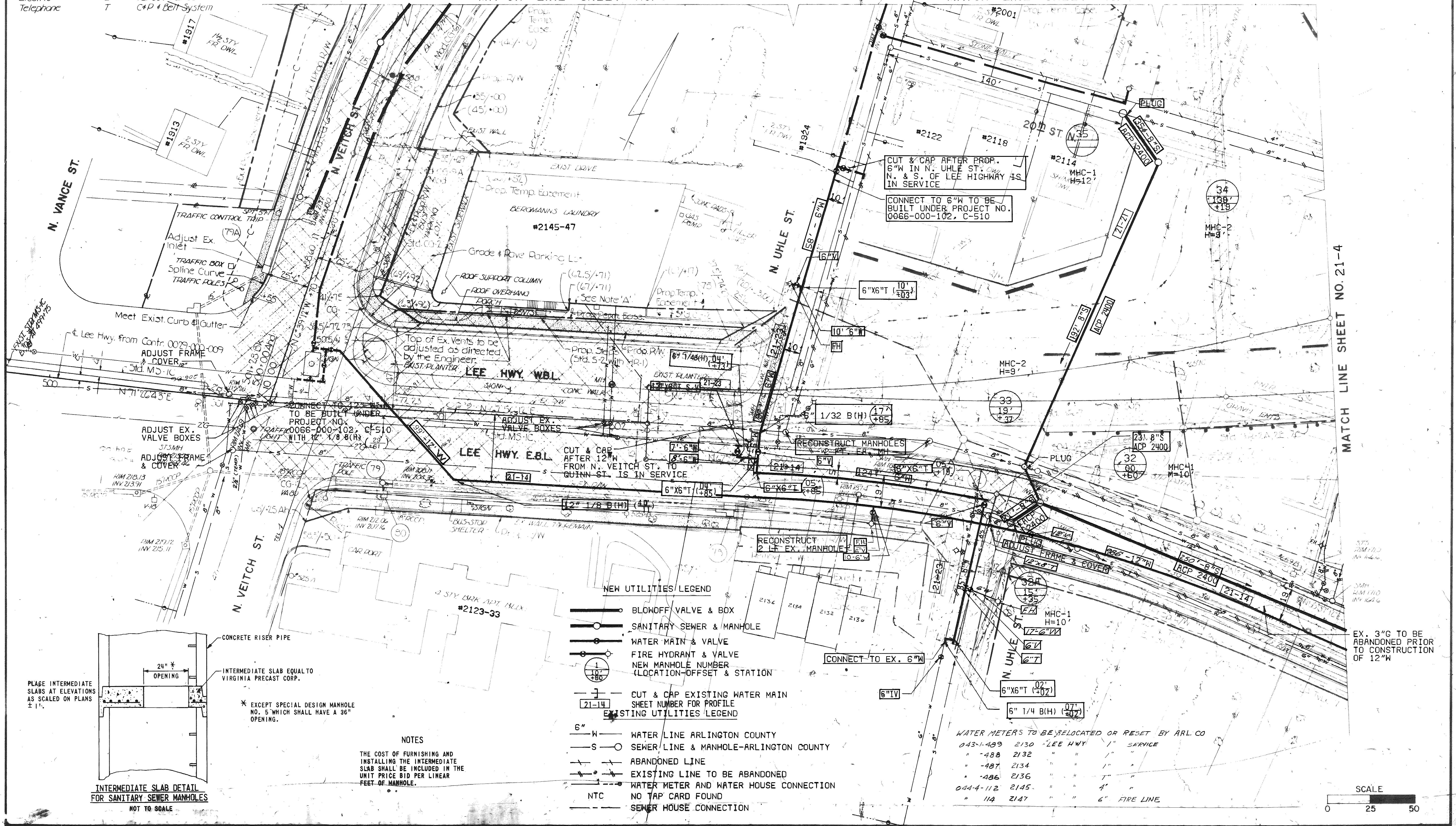
AS-BUILT PLAN 11-15-83
INFORMATION BASED UPON D.P.W. INSPECTORS NOTES

LEGEND

UTILITY	SYMBOL	OWNER
Sanitary Sewer	S	
Storm Sewer	STS	
Gas	G	Washington Gas Light Co.
Water	W	Arlington Co. # U.S. Gov't.
Electric	E	VEPCO & PEPCO
Telephone	T	CAP & Bell System

MATCH LINE SHEET NO. 5

MATCH LINE SHEET NO. 21-3



INTERMEDIATE SLAB DETAIL FOR SANITARY SEWER MANHOLES
NOT TO SCALE

* EXCEPT SPECIAL DESIGN MANHOLE NO. 5 WHICH SHALL HAVE A 36" OPENING.

NOTES
THE COST OF FURNISHING AND INSTALLING THE INTERMEDIATE SLAB SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FEET OF MANHOLE.

NEW UTILITIES LEGEND

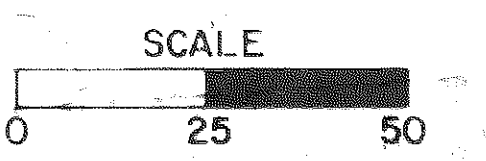
- BLOWOFF VALVE & BOX
- SANITARY SEWER & MANHOLE
- WATER MAIN & VALVE
- FIRE HYDRANT & VALVE
- NEW MANHOLE NUMBER (LOCATION-OFFSET & STATION)

EXISTING UTILITIES LEGEND

- 6" W — WATER LINE ARLINGTON COUNTY
- S — SEWER LINE & MANHOLE-ARLINGTON COUNTY
- — ABANDONED LINE
- — EXISTING LINE TO BE ABANDONED
- — WATER METER AND WATER HOUSE CONNECTION
- NTC — NO TAP CARD FOUND
- — SEWER HOUSE CONNECTION

WATER METERS TO BE RELOCATED OR RESET BY ARL. CO

043-1-489	2130	LEE HWY	1" SERVICE
" -488	2132	"	"
" -487	2134	"	"
" -486	2136	"	"
044-4-112	2145	"	4"
" 114	2147	"	6" FIRE LINE



LEGEND

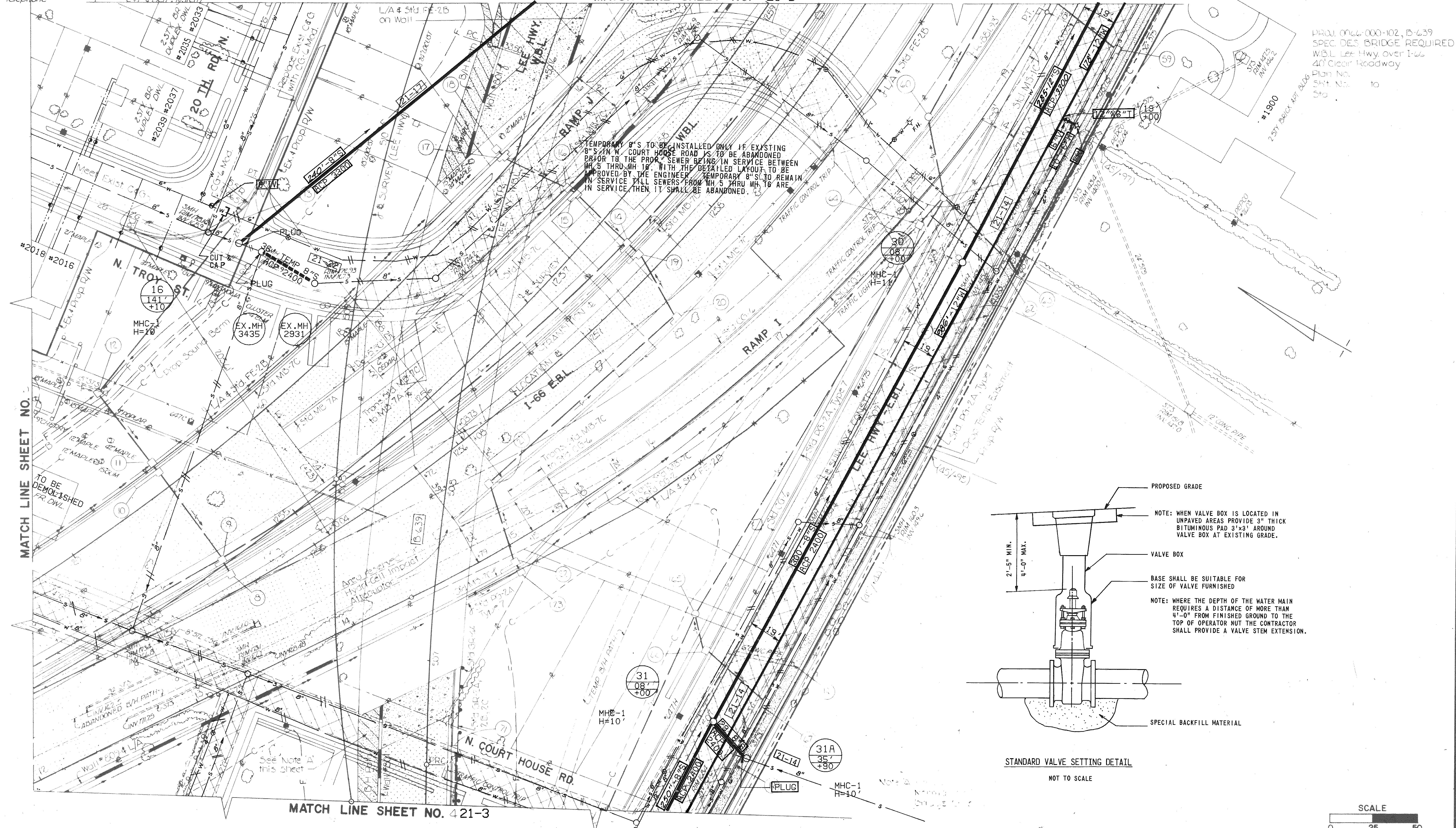
UTILITY	SYMBOL	OWNER
Sanitary Sewer	S	
Storm Sewer	STS	
Gas	G	Washington Gas Light Co
Water	W	Arlington Co & U.S. Gov't
Electric	E	VEPCO & PEPCO
Telephone	T	C&P & Bell System

AS-BUILT PLAN 11-15-83
 INFORMATION BASED UPON D.P.W. INSPECTORS NOTES

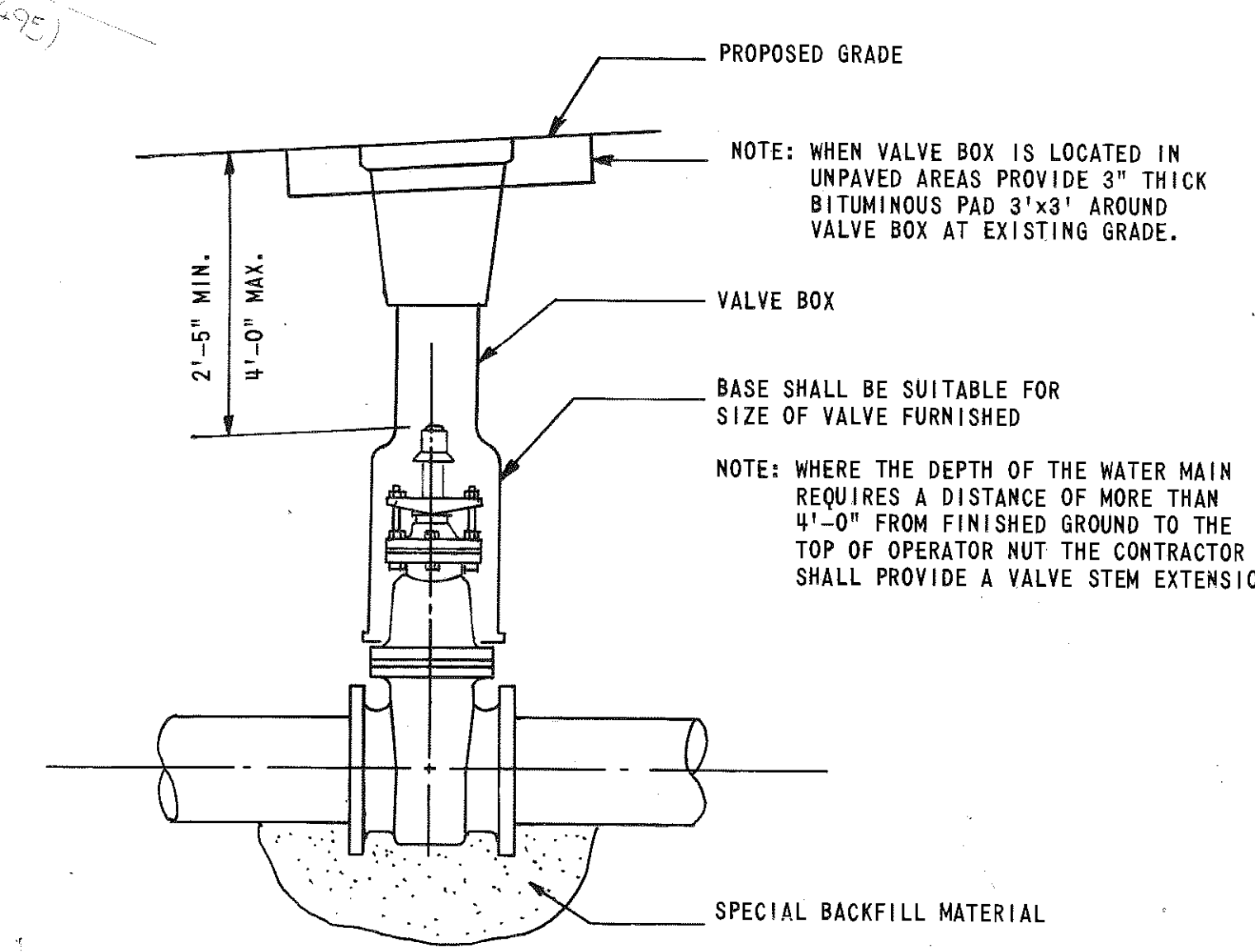
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

REVISED	FHWA REGION	STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
	3	VA.		66	0066-000-102 C-508	21-4

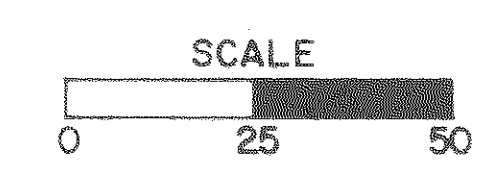
MATCH LINE SHEET NO. 721-5



PROJ. 0066-000-102, B-639
 SPEC. DES. BRIDGE REQUIRED
 W.B.L. Lee Hwy over I-66
 40' Clear Roadway
 Plan No. 10
 SH-1 No. 10
 157a



STANDARD VALVE SETTING DETAIL
 NOT TO SCALE



MATCH LINE SHEET NO. 421-3

UTILITY	SYMBOL	OWNER
Sanitary Sewer	S	
Storm Sewer	S/S	
Gas	G	Washington Gas Light Co.
Water	W	Arlington Co. & U.S. Gov't.
Electric	E	VEPCO & PEPCO
Telephone	T	CAP&Bell System

- NOTES**
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 - Hatched areas denote areas of demolition of pavement. Additional areas of demolition of pavement necessary for construction or as directed by the Engineer will be paid for as demolition of pavement.

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

REVISED	FHWA REGION	STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
	3	VA.		66	0066-000-102 C-508	21-5

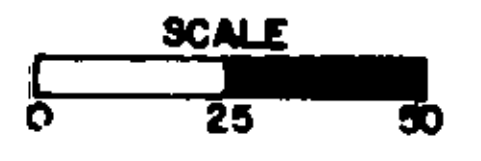
MATCH LINE SHEET NO. 21-6



MATCH LINE SHEET NO. 21-4

MHC-1
H=16'

AS-BUILT PLAN 11-18-83
INFORMATION BASED UPON D.P.W. INSPECTOR'S NOTES



PLAN NO.	PROJECT	FILE NO.	SHEET NO.
A	0066-000-102 C-508		21-5

LEGEND

UTILITY	SYMBOL	OWNER
Sanitary Sewer	S	
Storm Sewer	STS	
Gas	G	Washington Gas Light Co
Water	W	Arlington Co & U.S. Gov't
Electric	E	VEPCO & PEPCO
Telephone	T	C&P & Bell System

NOTES

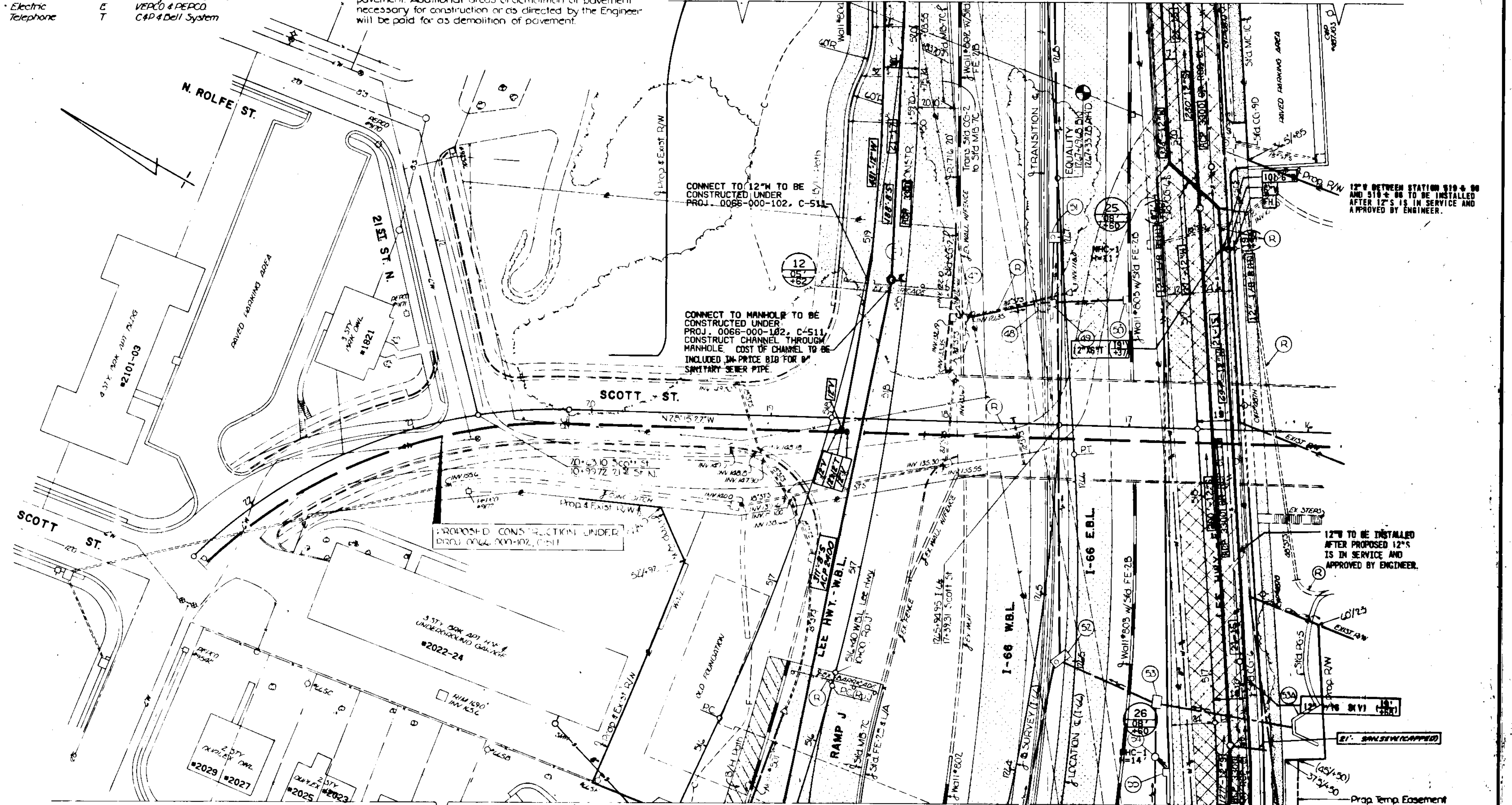
- Figures in brackets and dot-dash lines denotes permanent easements.
- Figures in parenthesis and dot-dot-dash lines denote temporary easements.
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AS-BUILT PLAN 11-16-83
INFORMATION BASED
UPON D.P.W. INSPECTORS
NOTES

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

REVISED	FEDERAL REGION	STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
	3	VA		66	0066-000-102 C-508	21-6

MATCH LINE SHEET NO. 21-7



MATCH LINE SHEET NO. 21-5



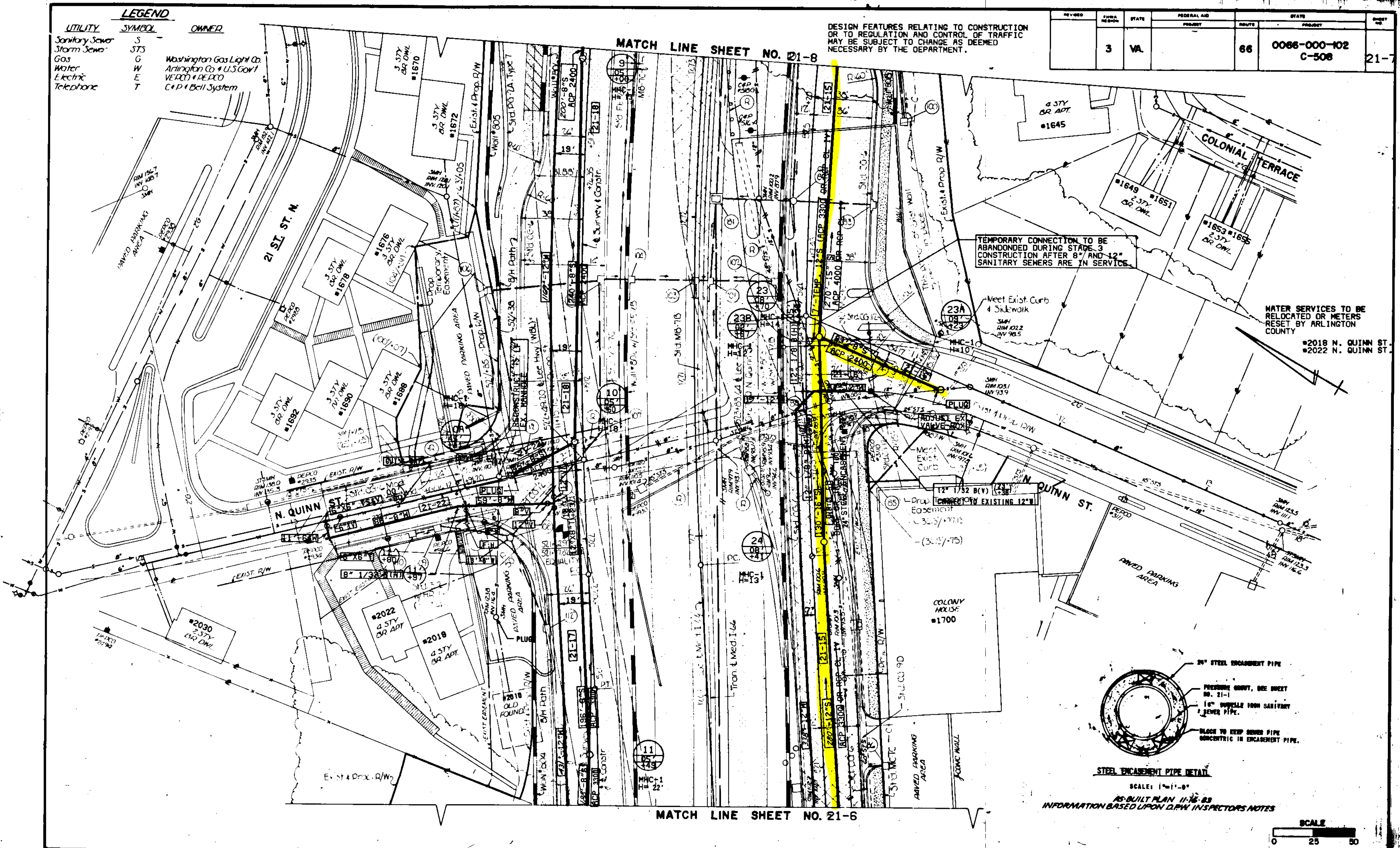
UTILITY	SYMBOL	OWNER
Sanitary Sewer	S	
Storm Sewer	STS	
Gas	G	Washington Gas Light Co.
Water	W	Arlington Co. & U.S. Gov't
Electric	E	VERCO & DEPCO
Telephone	T	C.P. & Bell System

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

FEDERAL AID	STATE	FEDERAL AID	STATE	ROUTE	PROJECT	SHEET NO.
	3	VA.		66	0066-000-102 C-508	21-7

MATCH LINE SHEET NO. 21-8

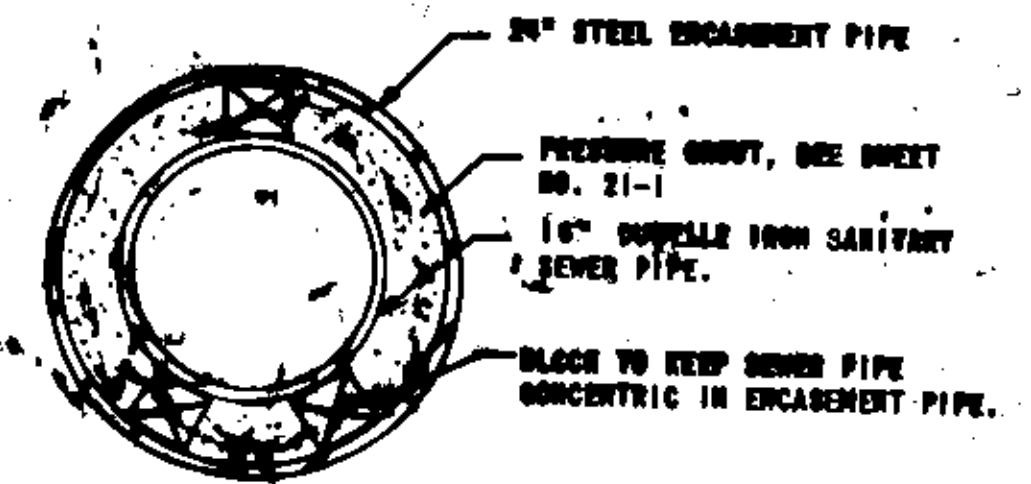
MATCH LINE SHEET NO. 21-6



TEMPORARY CONNECTION TO BE ABANDONED DURING STAGE 3 CONSTRUCTION AFTER 8" AND 12" SANITARY SEWERS ARE IN SERVICE.

WATER SERVICES TO BE RELOCATED OR METERS RESET BY ARLINGTON COUNTY

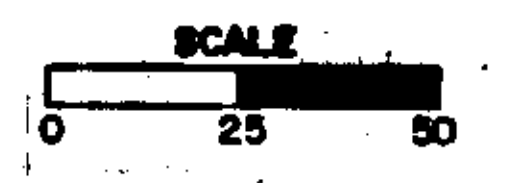
#2018 N. QUINN ST.
#2022 N. QUINN ST.



STEEL ENCASEMENT PIPE DETAIL

SCALE: 1"=1'-0"

AS-BUILT PLAN 11-76-83
INFORMATION BASED UPON D.P.W. INSPECTOR'S NOTES



PLAN NO.	PROJECT	PLAN NO.
A	0066-000-102 C-508	21-7

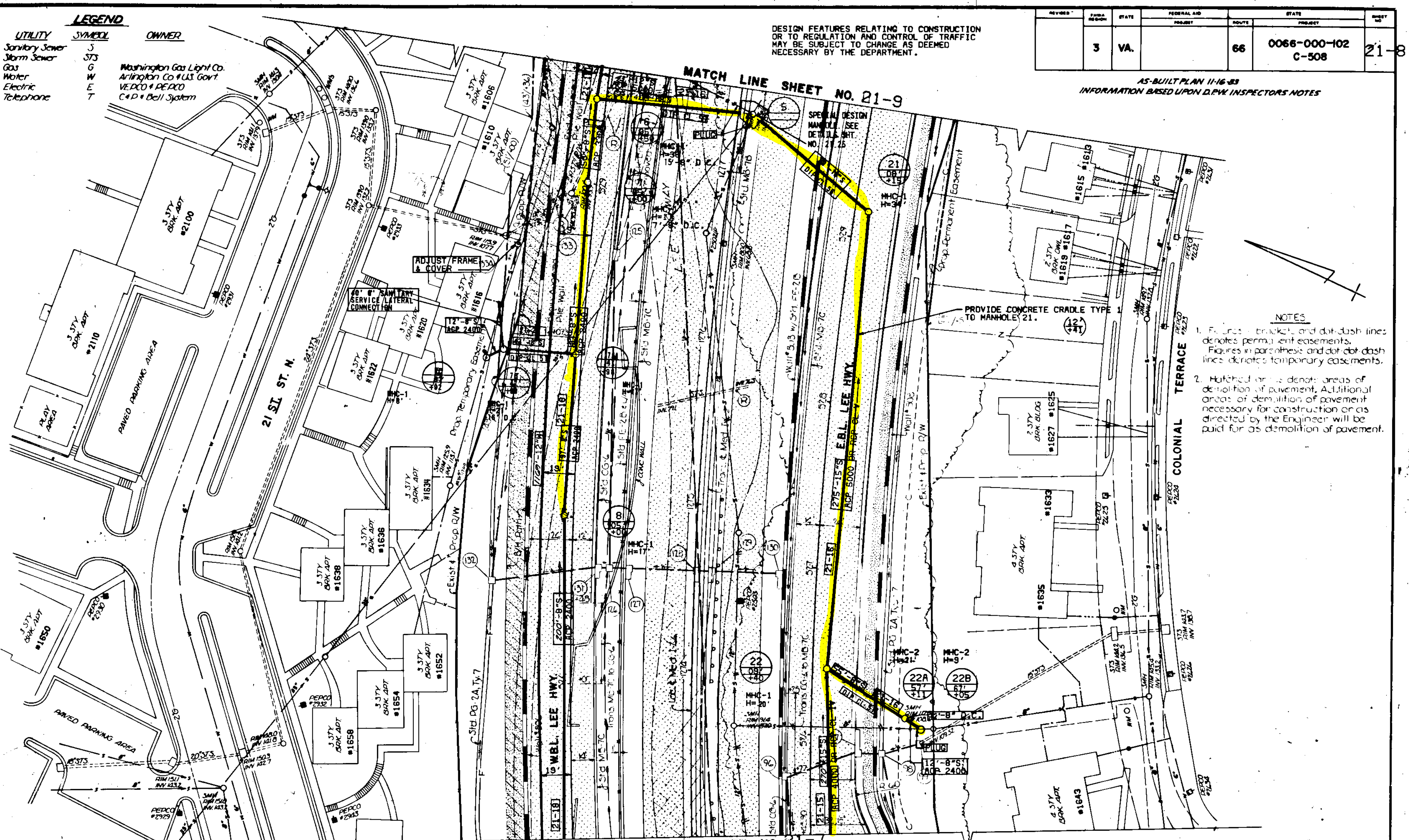
LEGEND

UTILITY	SYMBOL	OWNER
Sanitary Sewer	S	
Storm Sewer	STS	
Gas	G	Washington Gas Light Co.
Water	W	Arlington Co. & U.S. Govt.
Electric	E	VEDCO & PEPCO
Telephone	T	C&D & Bell System

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

REVISED	FHWA REGION	STATE	FEDERAL AID	ROUTE	STATE	PROJECT	SHEET NO.
	3	VA.		66		0066-000-102 C-508	21-8

AS-BUILT PLAN 11-16-83
INFORMATION BASED UPON D.P.W. INSPECTOR'S NOTES



REVISION	DATE	STATE	FEDERAL AID	ROUTE	STATE	PROJECT	SHEET NO.
		3	VA.	66		0066-000-102 C-508	21-9

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

LEGEND

UTILITY	SYMBOL	OWNER
Sanitary Sewer	S	
Storm Sewer	S/S	
Gas	G	Washington Gas Light Co.
Water	W	Arlington Co. & U.S. Govt.
Electric	E	VEPCO & PEPCO
Telephone	T	C&D & Bell Co.

NOTE
Underground Tanks to be removed when station is demolished

MATCH LINE SHEET NO. 21-10



- NOTES**
- Figures in brackets and dot-dash lines denotes permanent easements.
Figures in parenthesis and dot-dot-dash lines denotes temporary easements.
 - Hatched areas denote areas of demolition of pavement. Additional areas of demolition of pavement necessary for construction or as directed by the Engineer will be paid for as demolition of pavement.

NOTE
CONTRACTOR TO MAINTAIN SEWAGE FLOW BETWEEN EXISTING MANHOLE A AND EXISTING MANHOLE B DURING CONSTRUCTION OF PROPOSED 12" S

MATCH LINE SHEET NO. 21-8

AS-BUILT PLAN 11-17-83
INFORMATION BASED UPON D.P.W. INSPECTOR'S NOTES



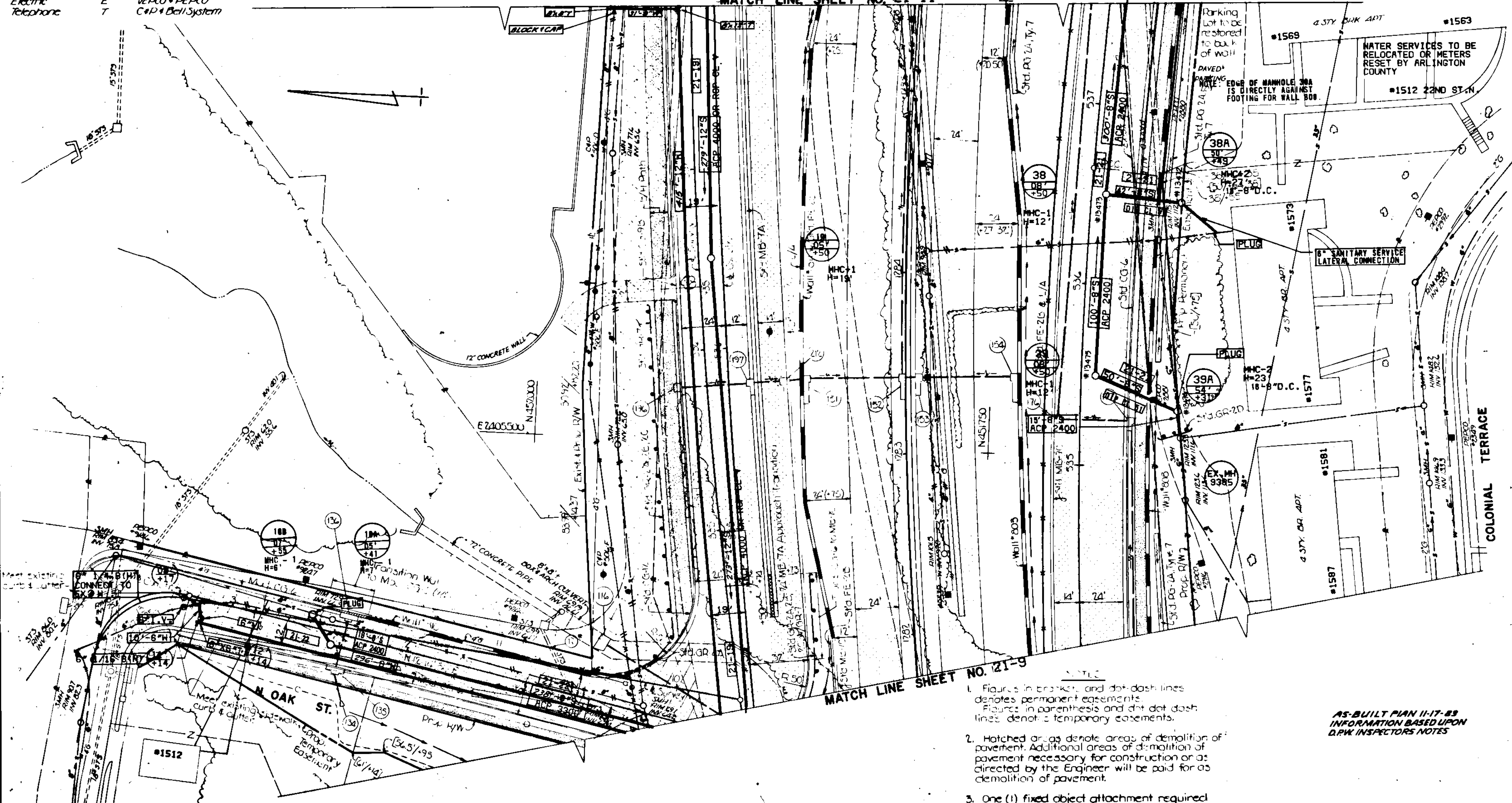
REVISED	FHWA REGION	STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
	3	VA.		66	0066-000-102 C-508	21-10

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

LEGEND

UTILITY	SYMBOL	OWNER
Sanitary Sewer	S	
Storm Sewer	STS	
Gas	G	Washington Gas Light Co.
Water	W	Arlington Co. & US Govt.
Electric	E	VEPCO & PEPCO
Telephone	T	C&P & Bell System

MATCH LINE SHEET NO. 21-11

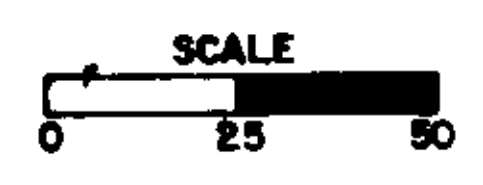


MATCH LINE SHEET NO. 21-9

1. Figures in brackets and dot-dash lines denotes permanent easements. Figures in parenthesis and dot-dot-dash lines denote temporary easements.
2. Hatched areas denote areas of demolition of pavement. Additional areas of demolition of pavement necessary for construction or as directed by the Engineer will be paid for as demolition of pavement.
3. One (1) fixed object attachment required on this sheet. (Std. GR-4A)

AS-BUILT PLAN 11-17-83
INFORMATION BASED UPON
D.P.W. INSPECTORS NOTES

* Remove existing pipe to park property line, plug with brick masonry.



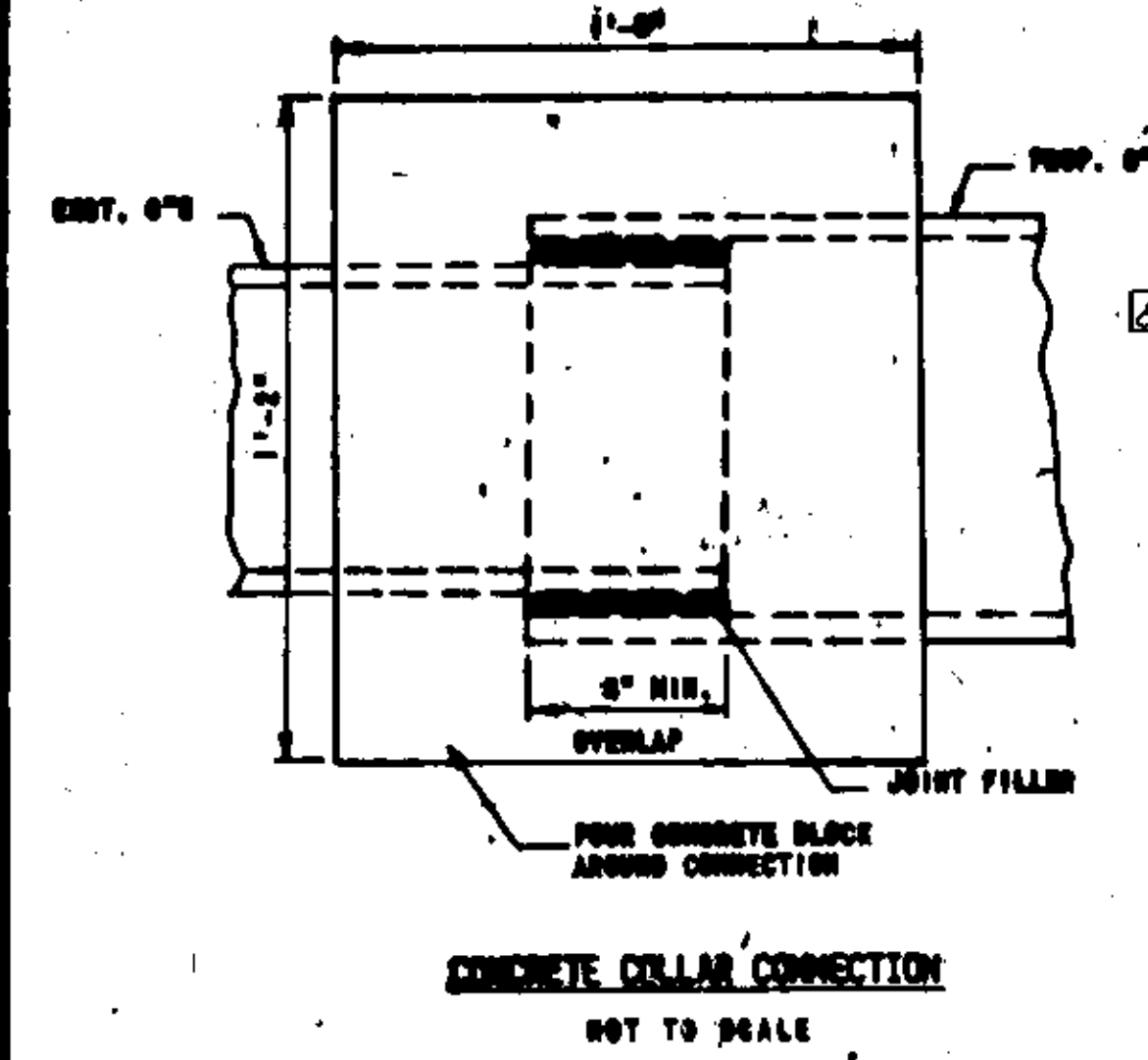
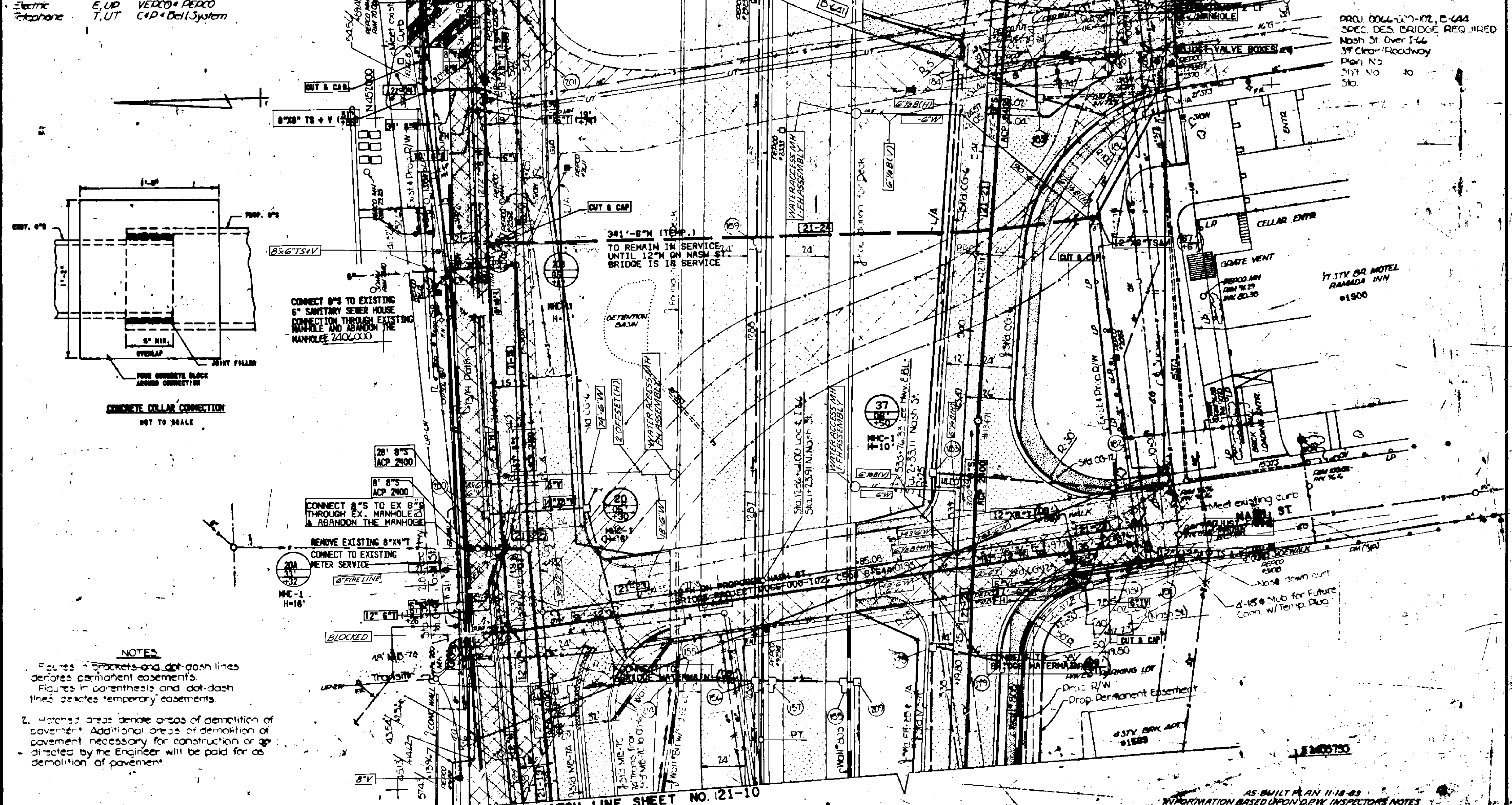
LEGEND

UTILITY	SYMBOL	OWNER
Sanitary Sewer	S	Washington Gas Light Co.
Storm Sewer	STS	Arlington Co. & US Govt.
Gas	G	VEDCO & PEDCO
Water	W	VEDCO & PEDCO
Electric	E, UP	C&P & Bell System
Telephone	T, UT	

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

8-28-74					
S	WA	68	0088-000-102	21-11	
			6-308		

MATCH LINE SHEET NO. 01-12



CONNECT 8" TO EXISTING 6" SANITARY SEWER HOUSE CONNECTION THROUGH EXISTING MANHOLE AND ABANDON THE MANHOLE 240,000

341'-8" (TEMP.) TO REMAIN IN SERVICE UNTIL 12" ON NASH ST BRIDGE IS IN SERVICE

CONNECT 8" TO EX 8" THROUGH EX. MANHOLE & ABANDON THE MANHOLE

REMOVE EXISTING 8" x 4" T. CONNECT TO EXISTING METER SERVICE

NOTES

- Figures in brackets and dot-dash lines denotes permanent easements.
- Figures in parenthesis and dot-dash lines denotes temporary easements.
- Hatched areas denote areas of demolition of pavement. Additional areas of demolition of pavement necessary for construction or as directed by the Engineer will be paid for as demolition of pavement.

MATCH LINE SHEET NO. 21-10

AS BUILT PLAN 11-18-83 INFORMATION BASED UPON D.P.W. INSPECTORS NOTES

PROJ. 0088-000-102, E-644 SPEC. DES. BRIDGE REQUIRED Nash St. Over I-44 39' Clear Roadway Plan No. 21-11 Sta. 10

17 STY BRK HOTEL RAMADA INN #1900

637Y BRK ACFT #1588

1240570

LEGEND

TYPE	SYMBOL	OWNER
STATION NUMBER	S	
STREET NUMBER	STN	
PIPE	G	Washington Gas Light Co
WATER	W	Arlington Co. & U.S. Govt.
SEWER	E, UP	VEPCO & DEPCO
TELEPHONE	T, UT	C&P & Bell System

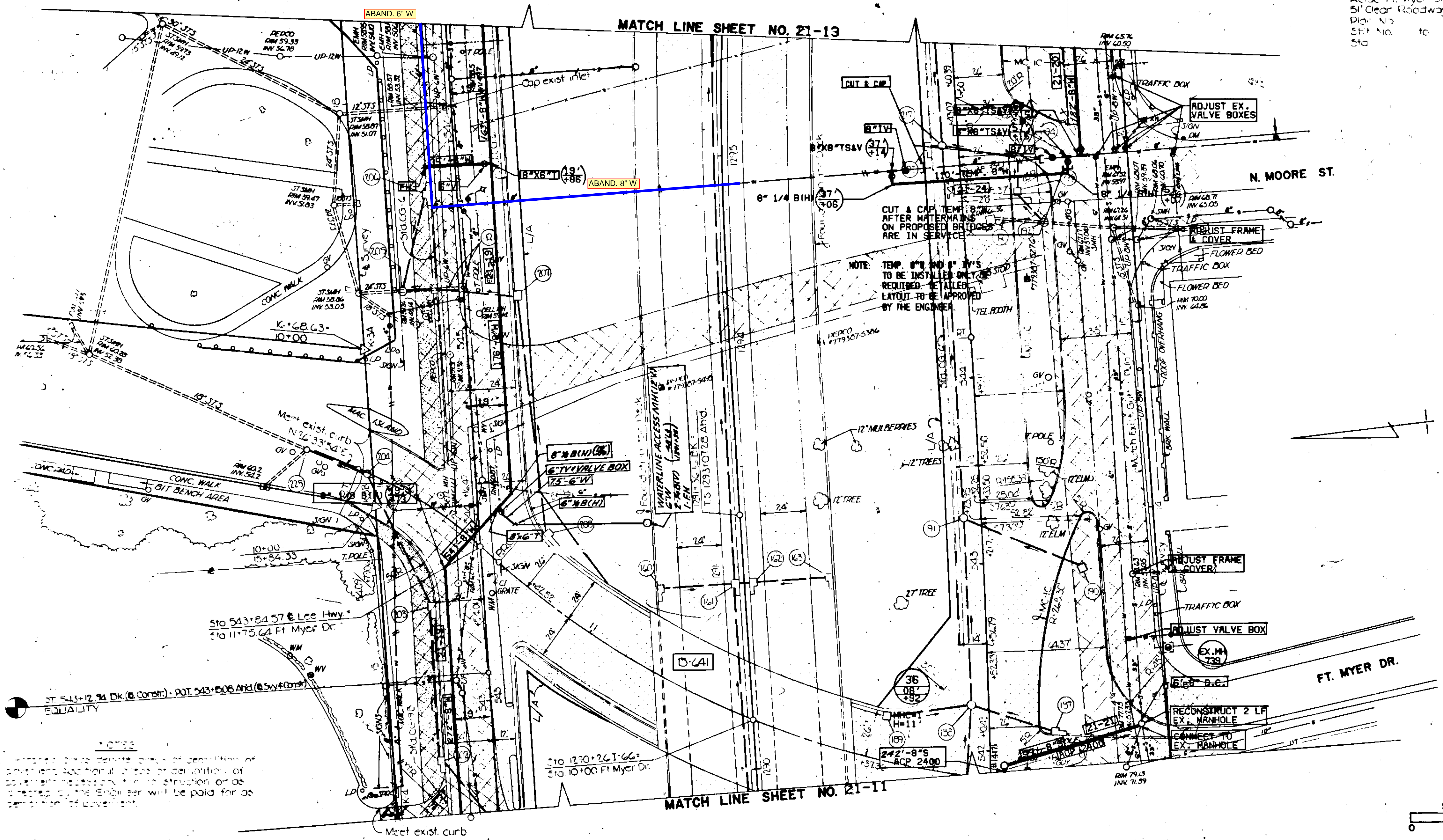
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

REVISED	FEDERAL AID PROJECT	STATE	ROUTE	PROJECT	SHEET NO.
3	VA.		66	0066-000-102 C-508	21-12

AS-BUILT PLAN II-17-83
INFORMATION BASED UPON D.P.W. INSPECTOR'S NOTES

PROJ. 0066-000-102, D-641
SPEC. DES. BRIDGE REQUIRED
Reloc Ft. Myer Drive Over I-66
51' Clear Roadway
Plan No. to
Sht. No. to
Sta

MATCH LINE SHEET NO. 21-13



NOTE: TEMP. 8" AND 8" TV'S TO BE INSTALLED ONLY AS STOP REQUIRED. DETAILED LAYOUT TO BE APPROVED BY THE ENGINEER.

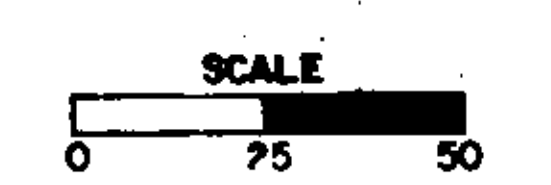
36
OB
+82

242'-8"S
ACP 2400

Sta 1270+26.1-66=
Sta 10+00 Ft Myer Dr

Sta 543+84.57 @ Lee Hwy
Sta 11+75 @ Ft Myer Dr

NOTES
All work to be done in accordance with specifications of Department of Transportation. Additional work or alterations of work not necessary for construction or as directed by the Engineer will be paid for as extra work by the contractor.



MATCH LINE SHEET NO. 21-11

LEGEND

UTILITY	SYMBOL	OWNER
Sanitary Sewer	S	
Storm Sewer	STS	
Gas	G	Washington Gas Light Co.
Water	W	Arlington Co. & US Govt.
Electric	E, UP	VEPCO & DEPCO
Telephone	T	C&P & Bell System

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

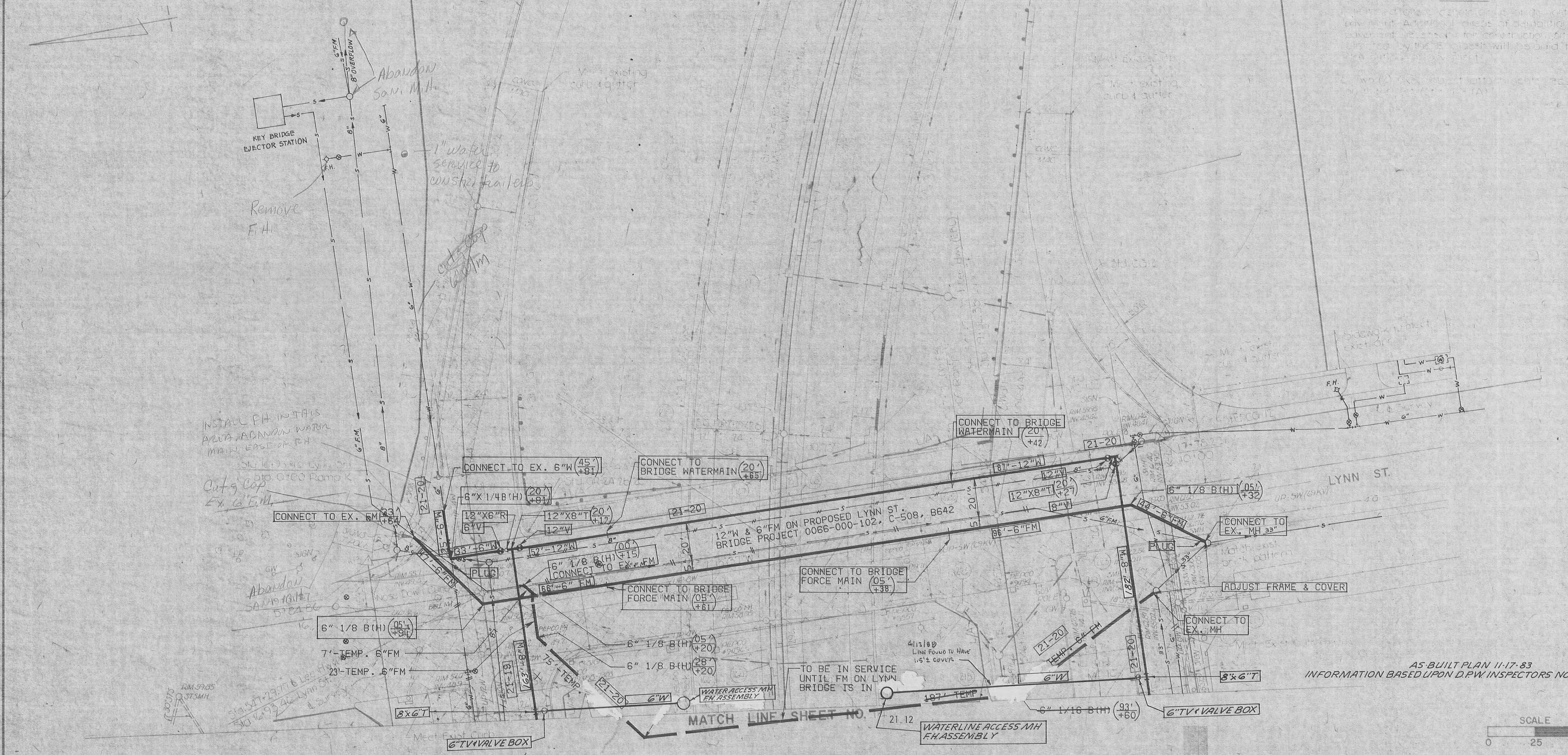
REVISED	FHWA REGION	STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
	3	VA.		66	0066-000-102 C-508	21-13

PLD. 002. 00002 P. 042
 N.S. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 DIST. NO. 100
 SHEET NO. 100
 STA. 100

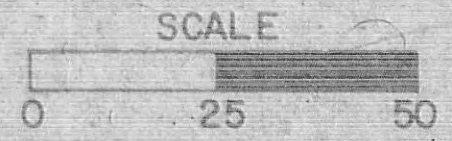
NOTES

1. All structures shall be constructed in accordance with the Department of Transportation Specifications for Highway Structures, 1975 Edition, as amended. Additional details of design and construction shall be provided by the Engineer and shall be subject to the approval of the District Engineer.

2. Two (2) copies of the final plan shall be submitted to the District Engineer for review and approval.



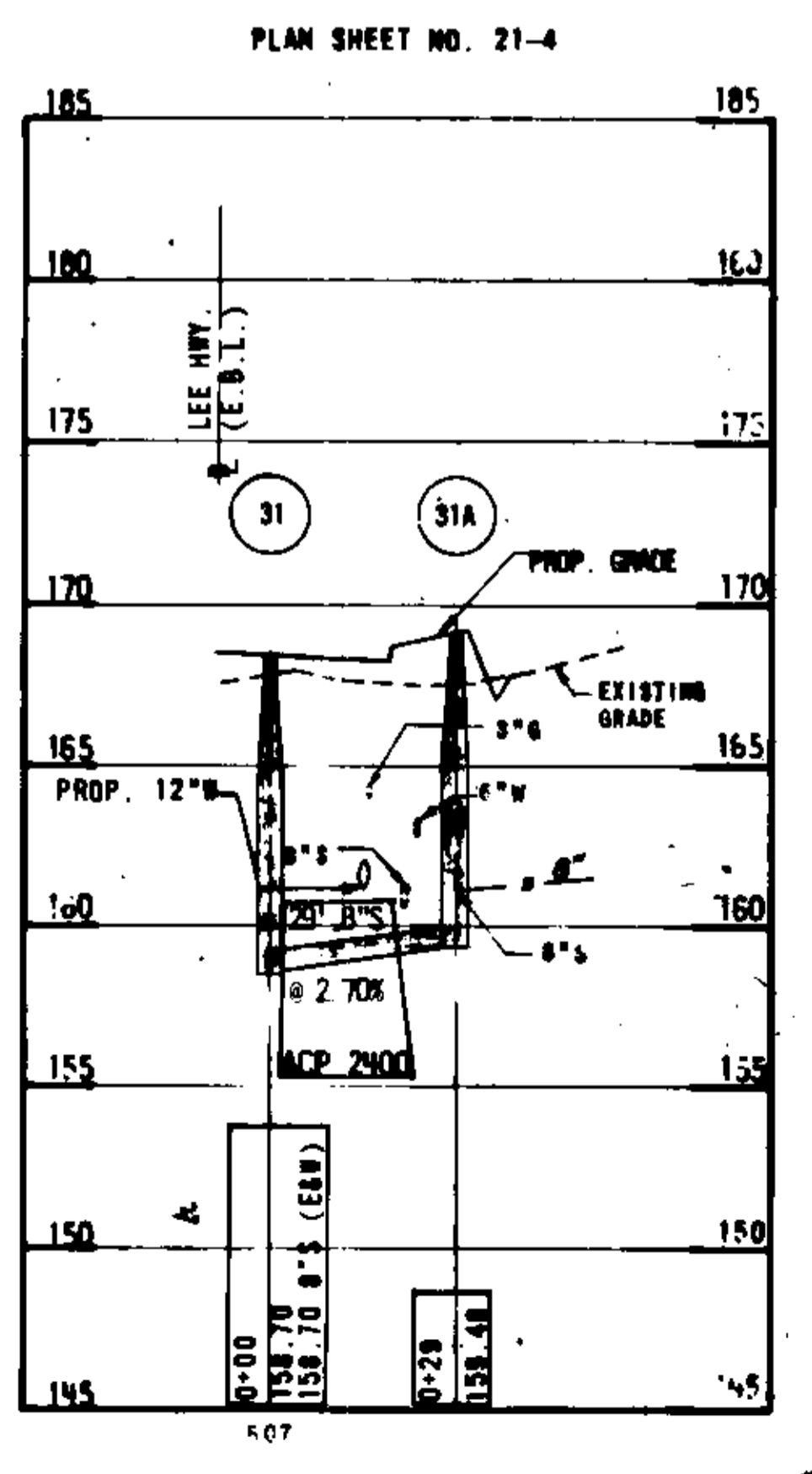
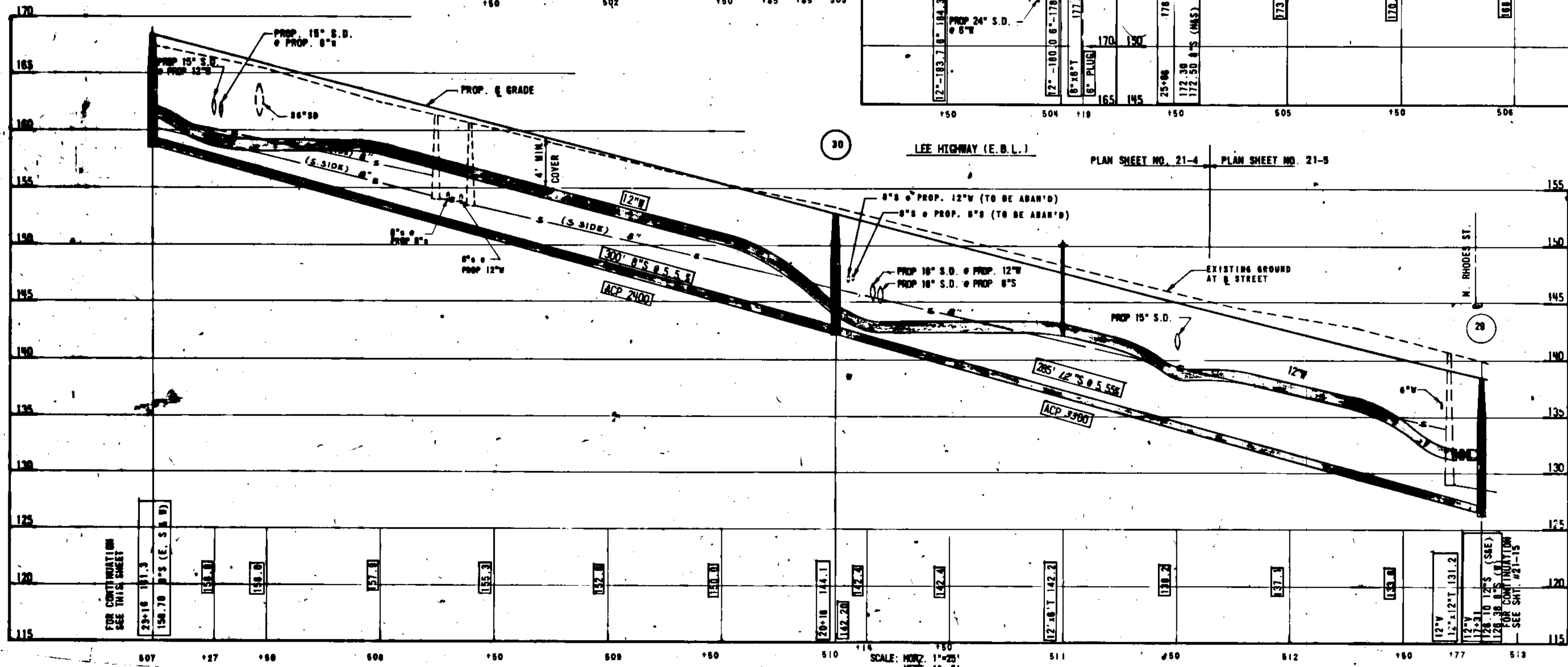
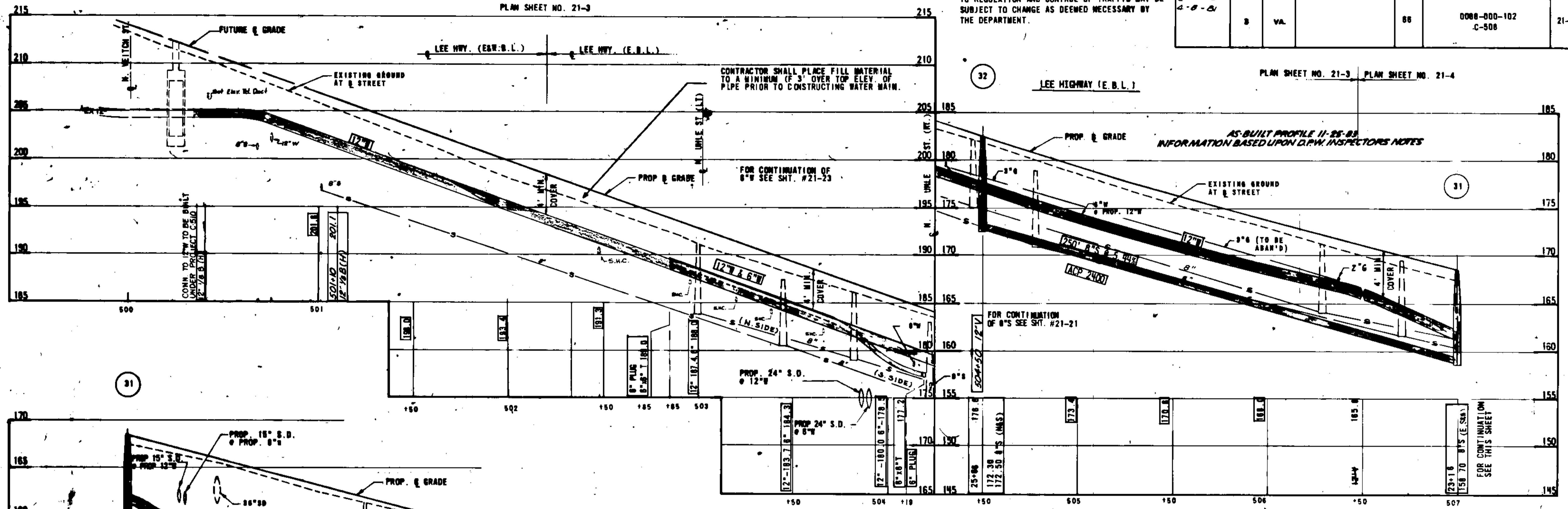
AS-BUILT PLAN 11-17-83
 INFORMATION BASED UPON D.P.W. INSPECTORS NOTES



LEE HIGHWAY
PLAN SHEET NO. 21-3

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

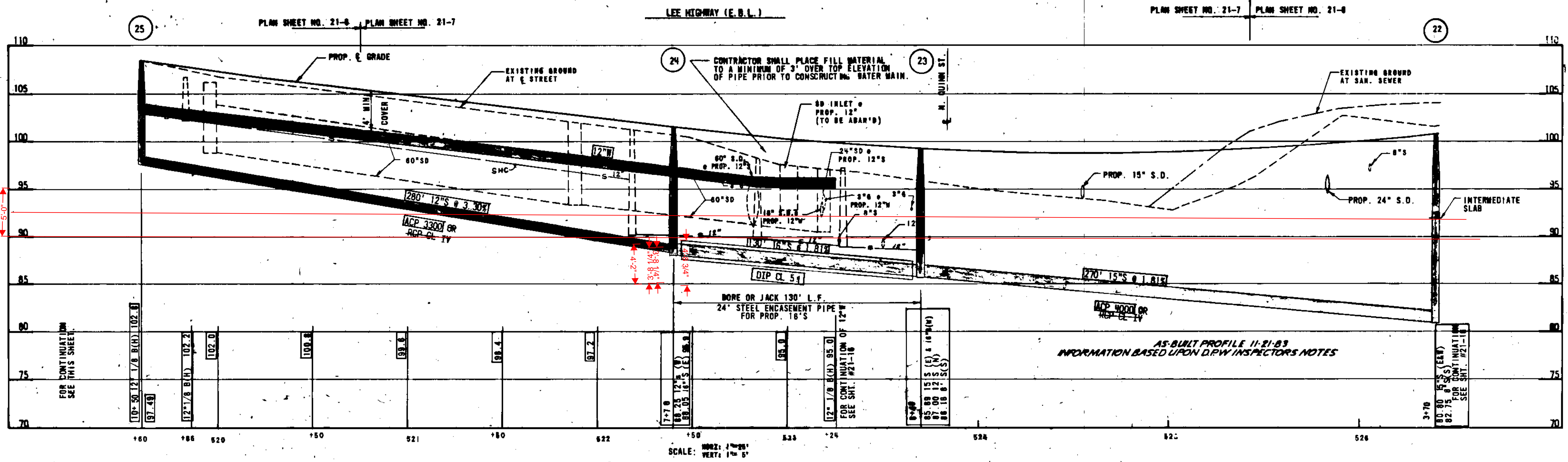
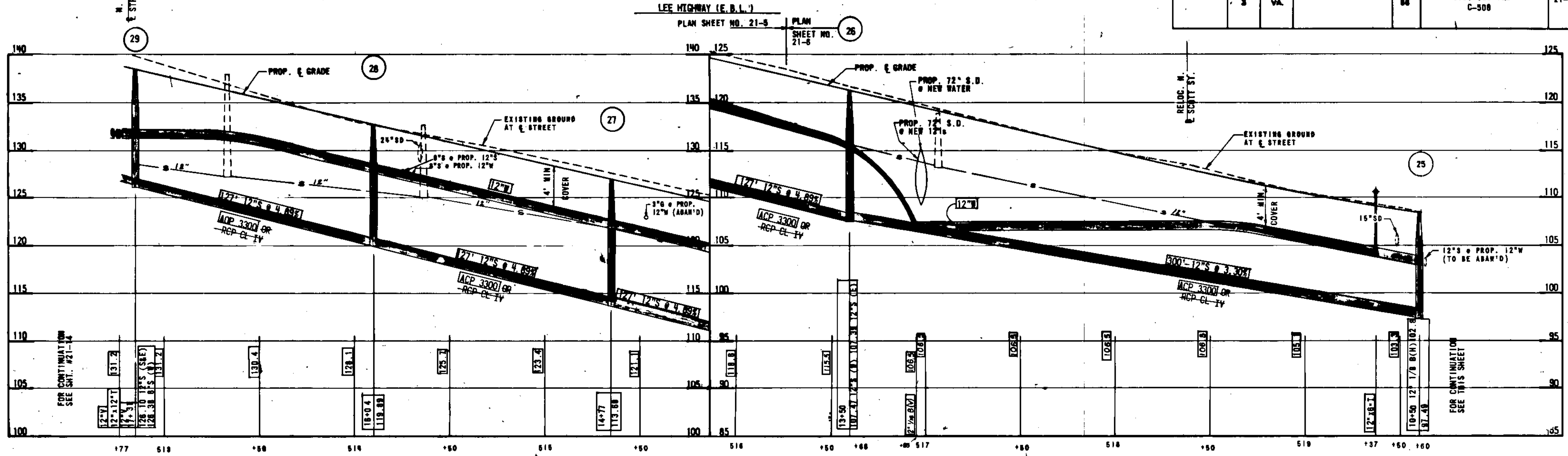
REVISED	DATE	BY	FEDERAL AID	ROUTE	STATE	PROJECT	SHEET NO.
2-15-80	4-8-81	B	VA.	86	0088-000-102	C-508	21-14



SCALE: HORIZ. 1"=20'
VERT. 1"=8'

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

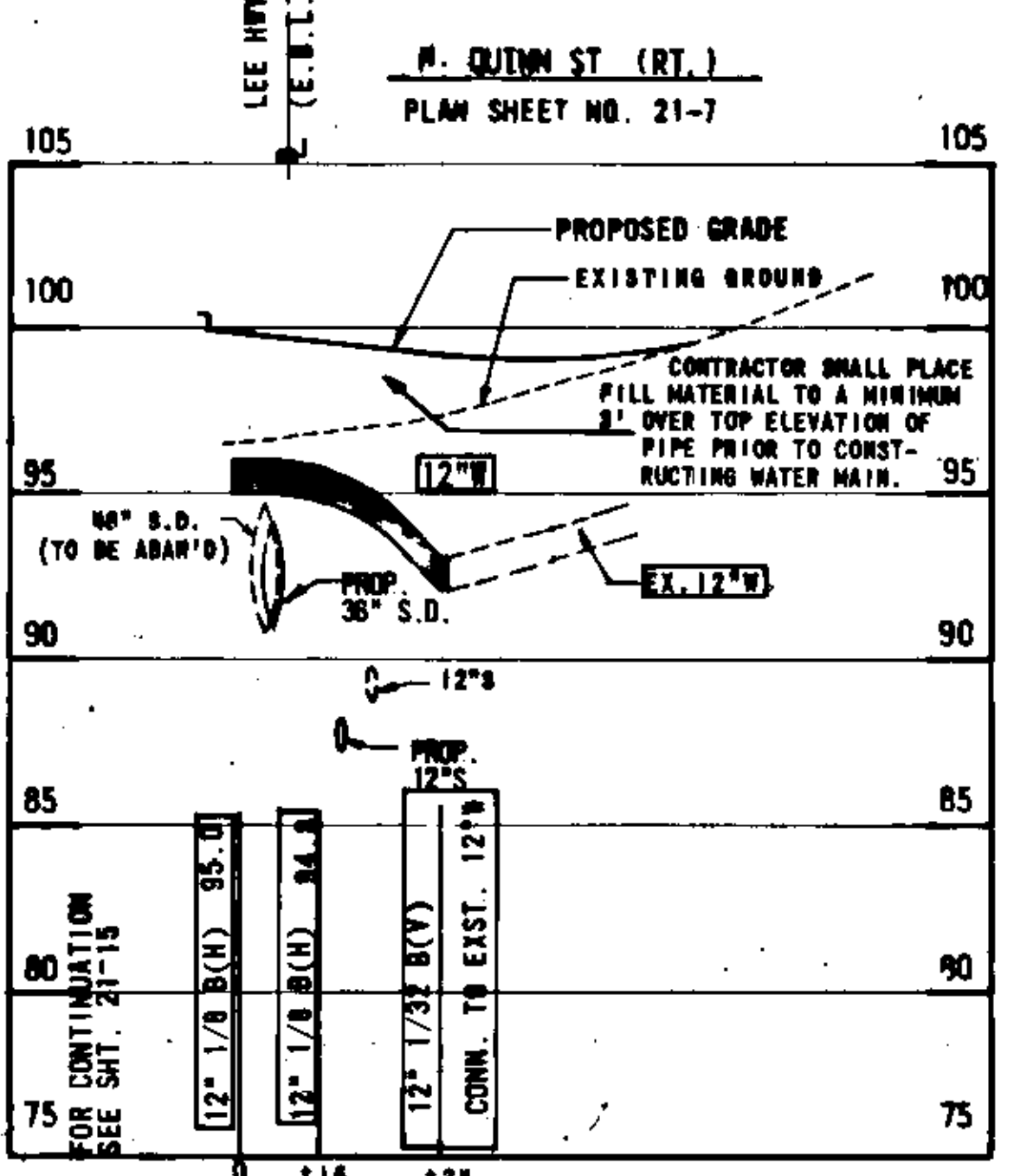
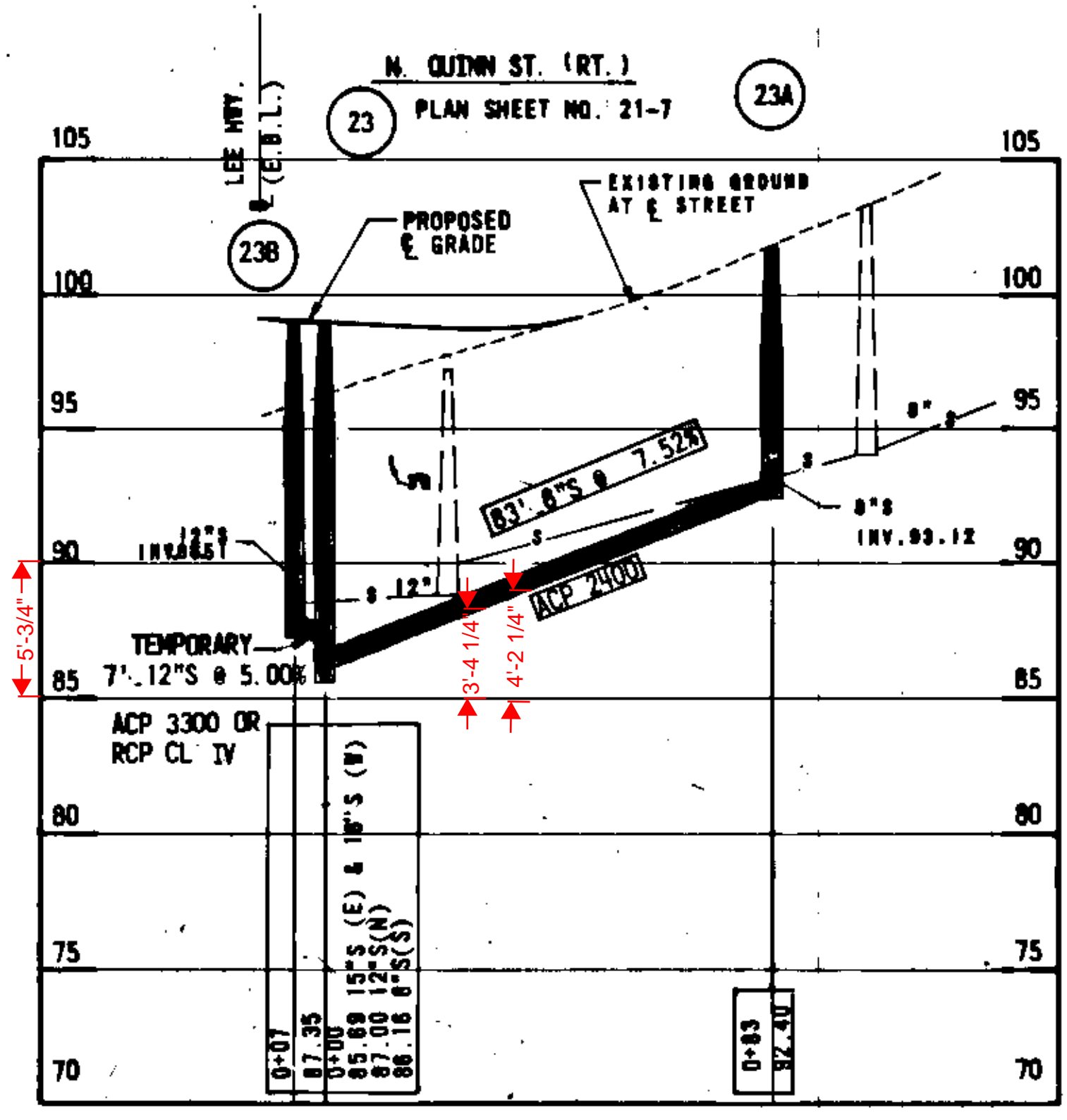
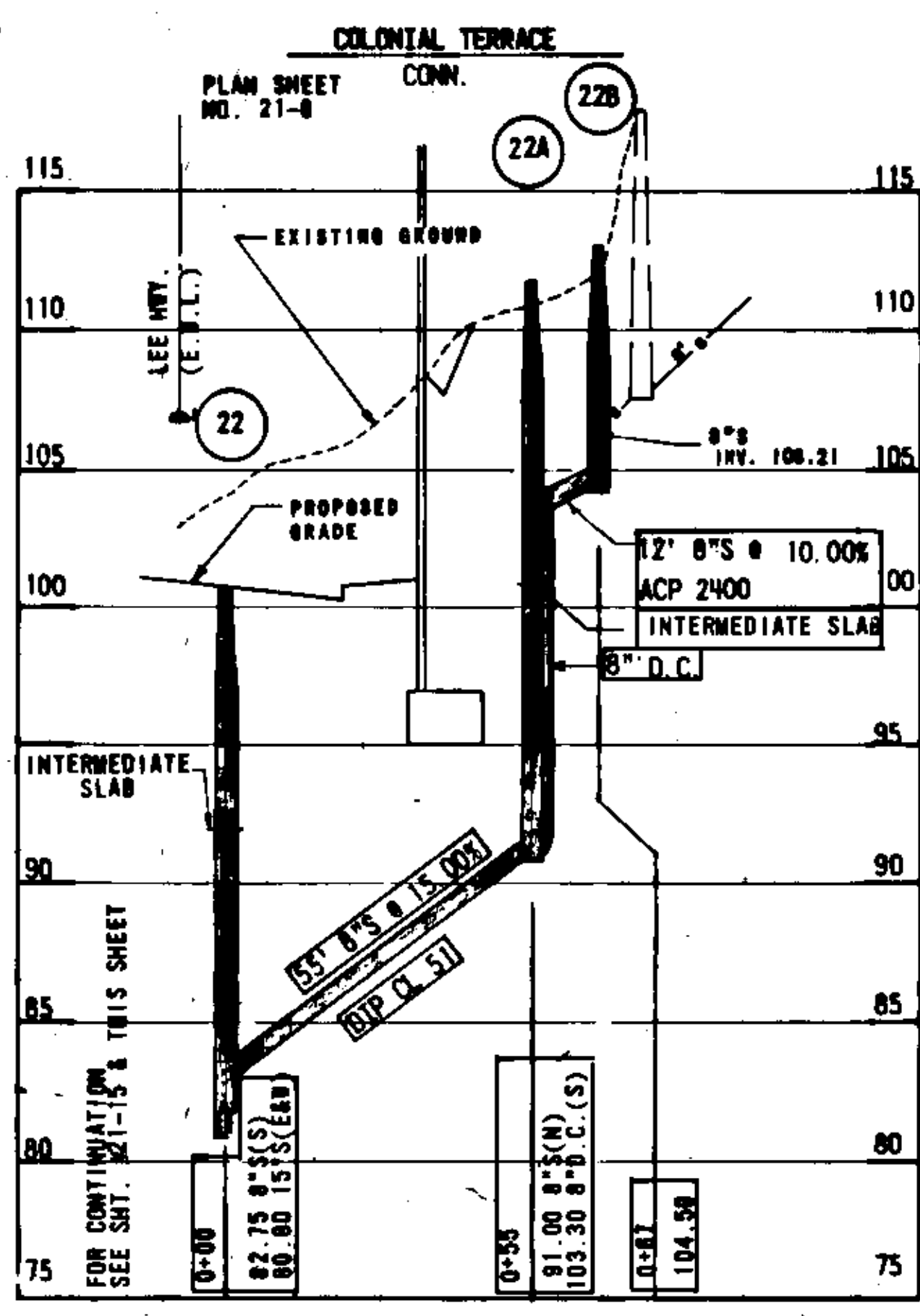
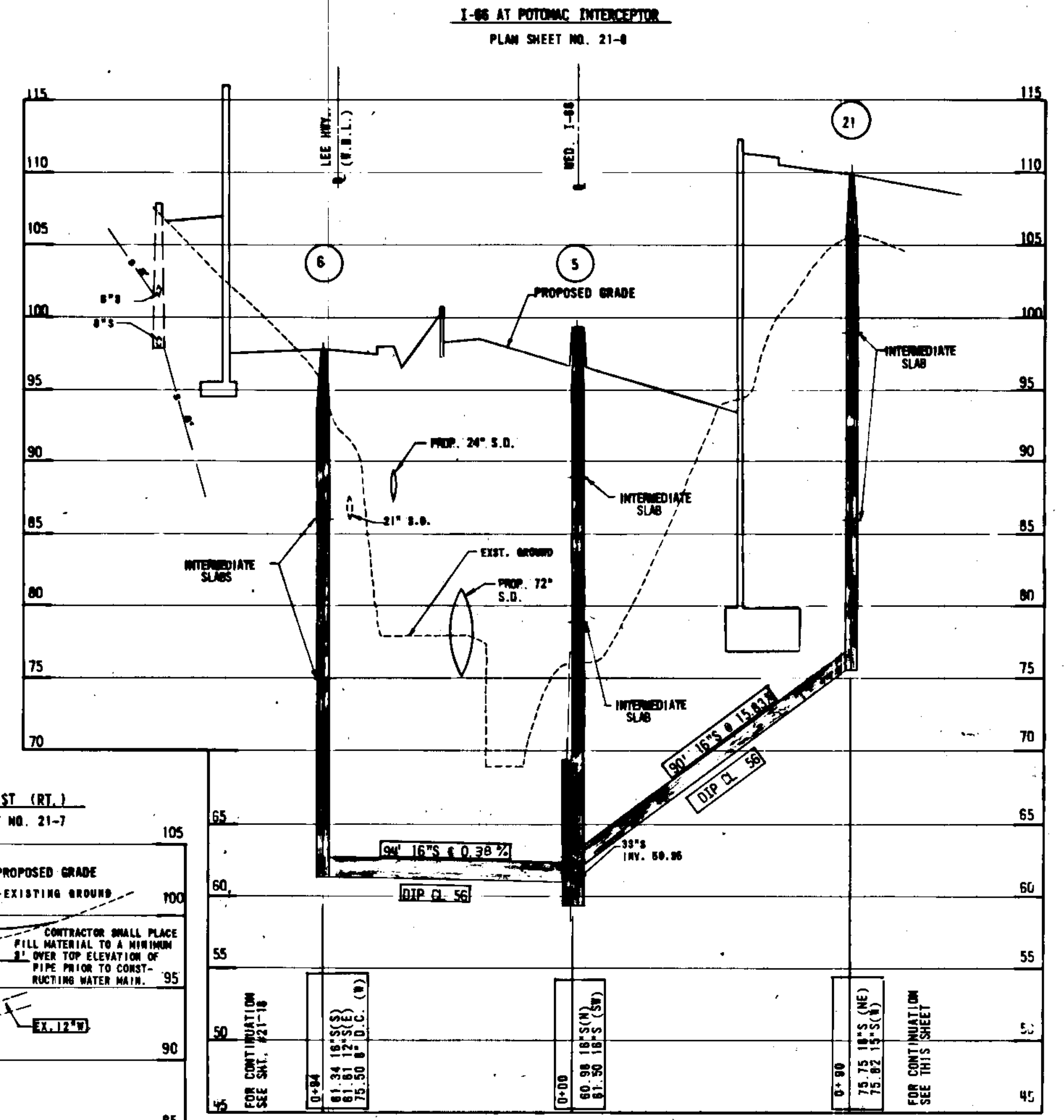
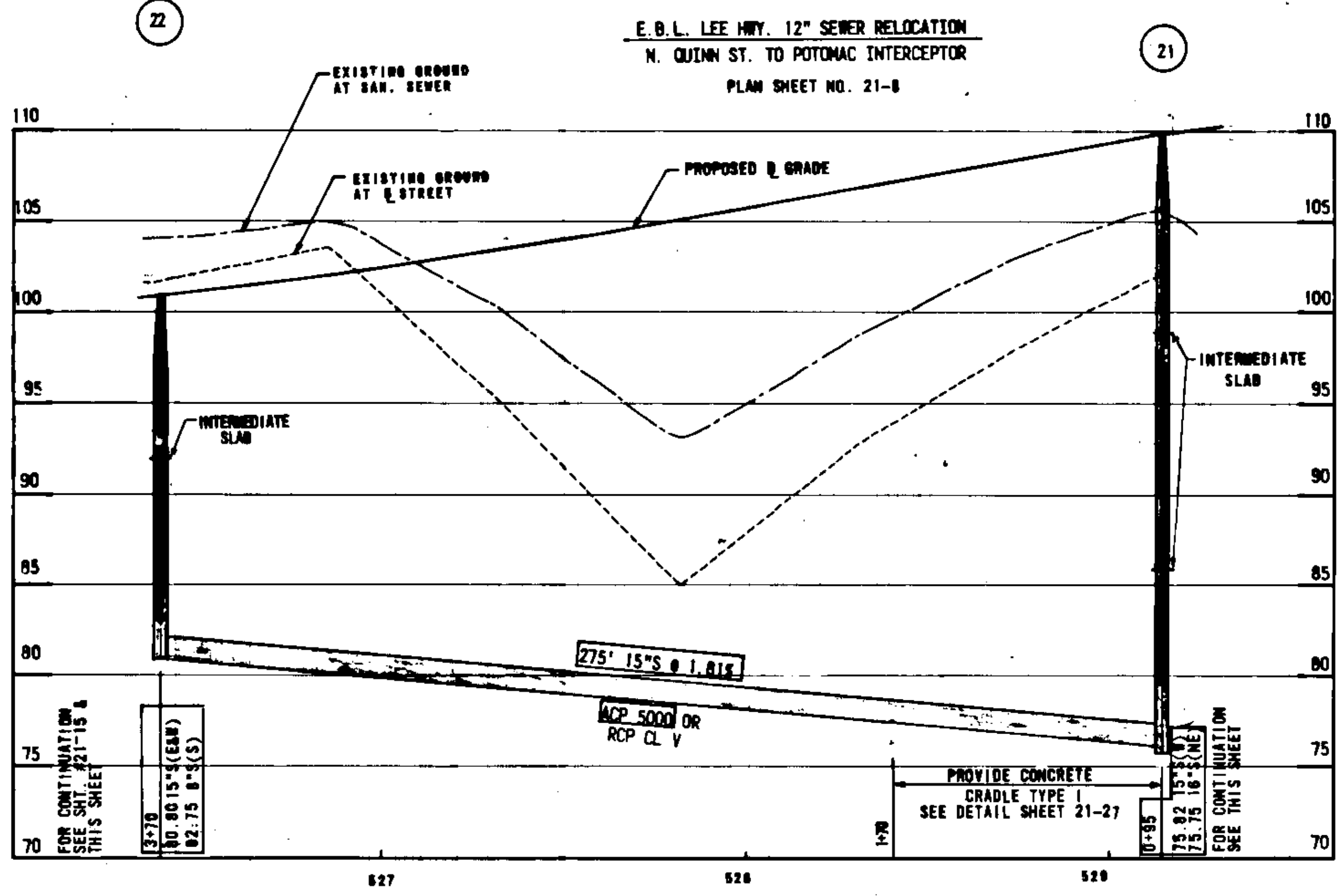
REVISED	FEDERAL AID	STATE	PROJECT		SHEET NO.
			FEDERAL AID	STATE	
8-28-79 3-26-80 4-7-80		VA.			21-15
			88	0088-000-102 C-508	



SCALE: HORIZ. 1"=50'
VERT. 1"=5'

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

REVISED	FUND REGION	STATE	FEDERAL AID		STATE		SHEET NO.
			PROJECT	ROUTE	PROJECT		
	3	VA.		66		0066-000-102 C-506	21-18



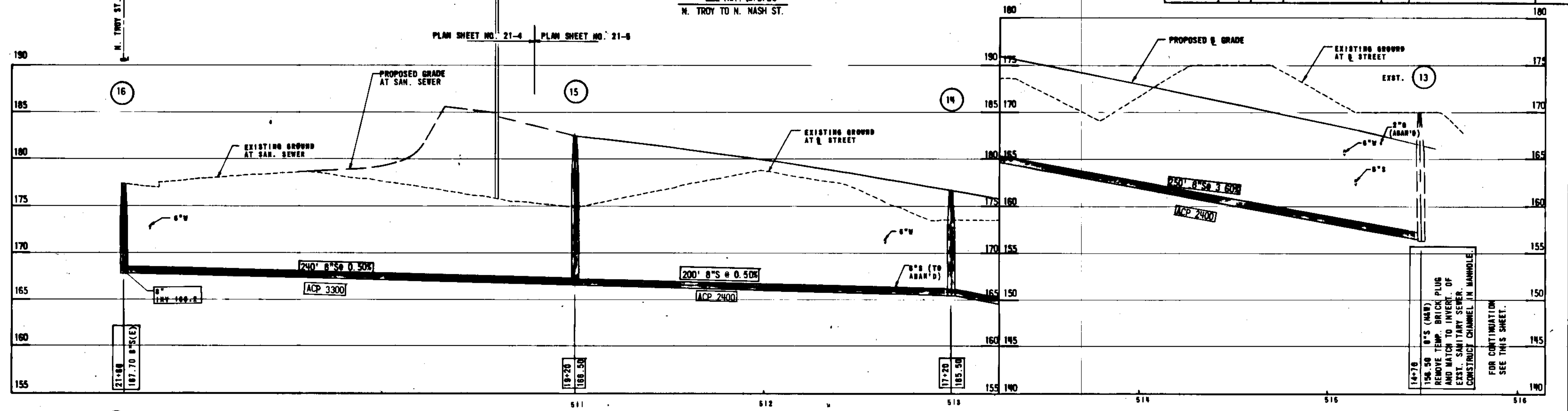
SCALE: HORIZ: 1"=80'
VERT: 1"=5'

AS-BUILT PROFILE 11-22-83
INFORMATION BASED UPON D.P.W./INSPECTORS NOTES

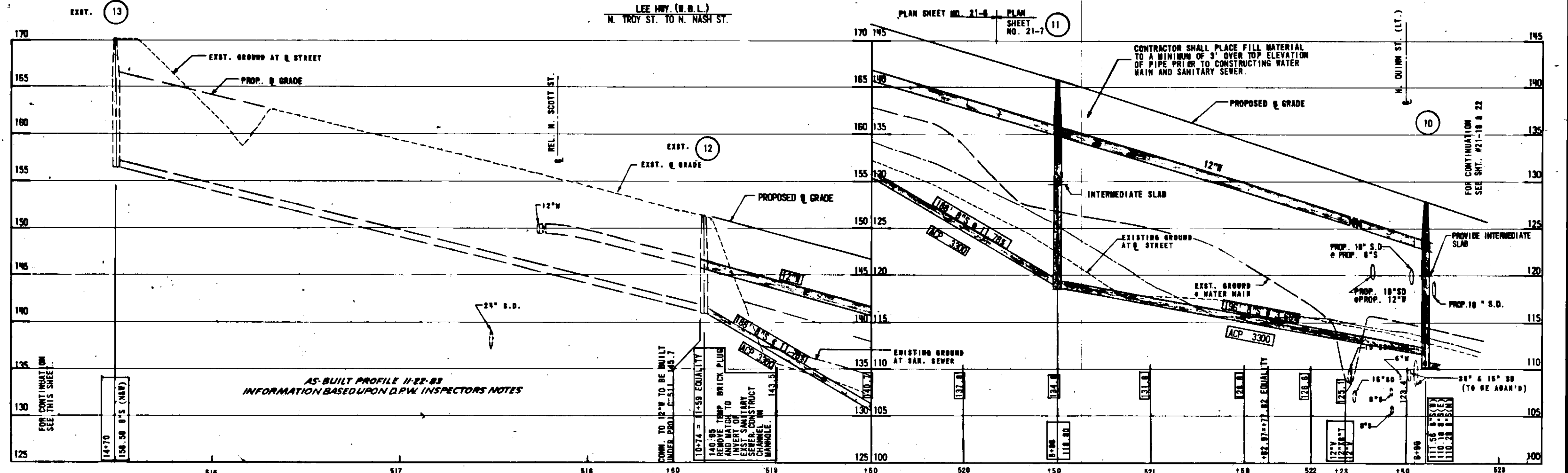
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

REVISION	FHW REGION	STATE	FEDERAL AID		STATE		SHEET NO.
			PROJECT	ROUTE	PROJECT	PROJECT	
	8	VA.		06	0086-000-102 C-508		21-17

LEE HWY. (W.B.L.)
N. TROY TO N. NASH ST.



LEE HWY. (W.B.L.)
N. TROY ST. TO N. NASH ST.



AS-BUILT PROFILE 11-22-83
INFORMATION BASED UPON D.P.W. INSPECTOR'S NOTES

HORIZ: 1"=20'
SCALE: VERT: 1"=5'

CONTRACTOR SHALL PLACE FILL MATERIAL TO A MINIMUM OF 3' OVER TOP ELEVATION OF PIPE PRIOR TO CONSTRUCTING WATER MAIN AND SANITARY SEWER.

10-24 = 11-59 EQUALITY
140.95
REMOVE TEMP BRICK PLUG AND MATCH TO INVERT OF EXIST. SANITARY SEWER. CONSTRUCT SEWER CHANNEL IN MANHOLE.

DOWN TO 12" TO BE BUILT UNDER PROFL. C-511 145.7

FOR CONTINUATION SEE SHT. #21-18 & 22

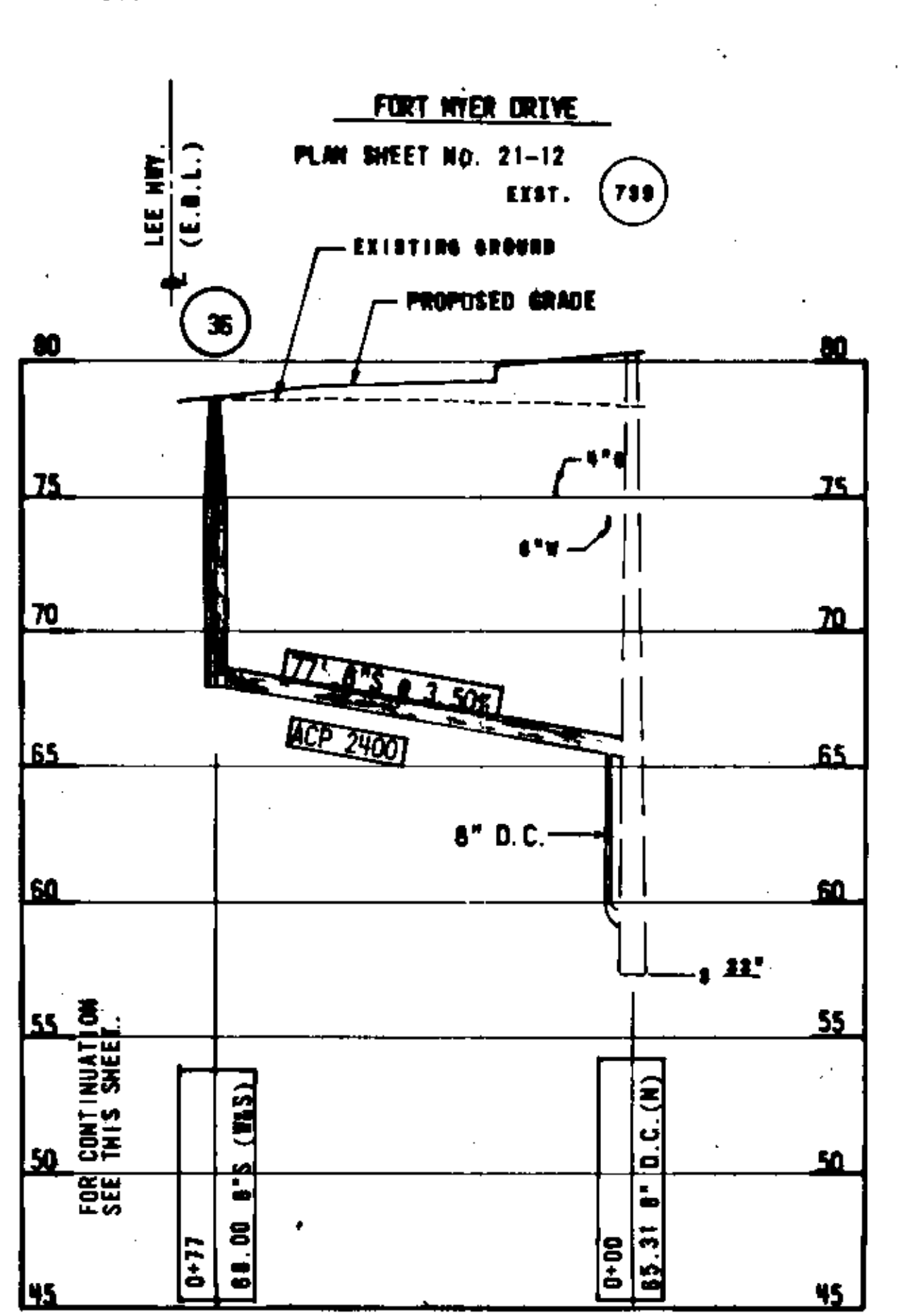
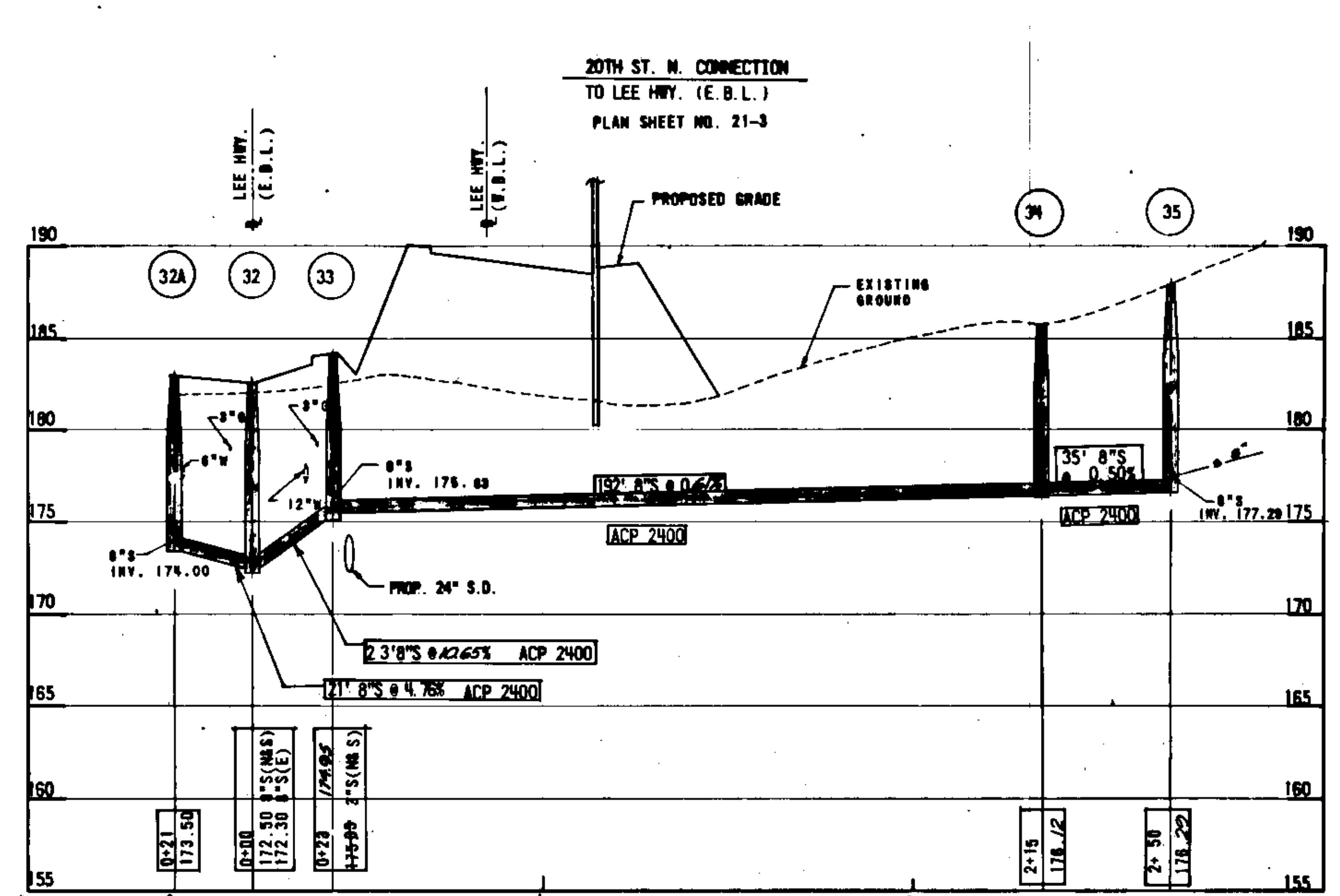
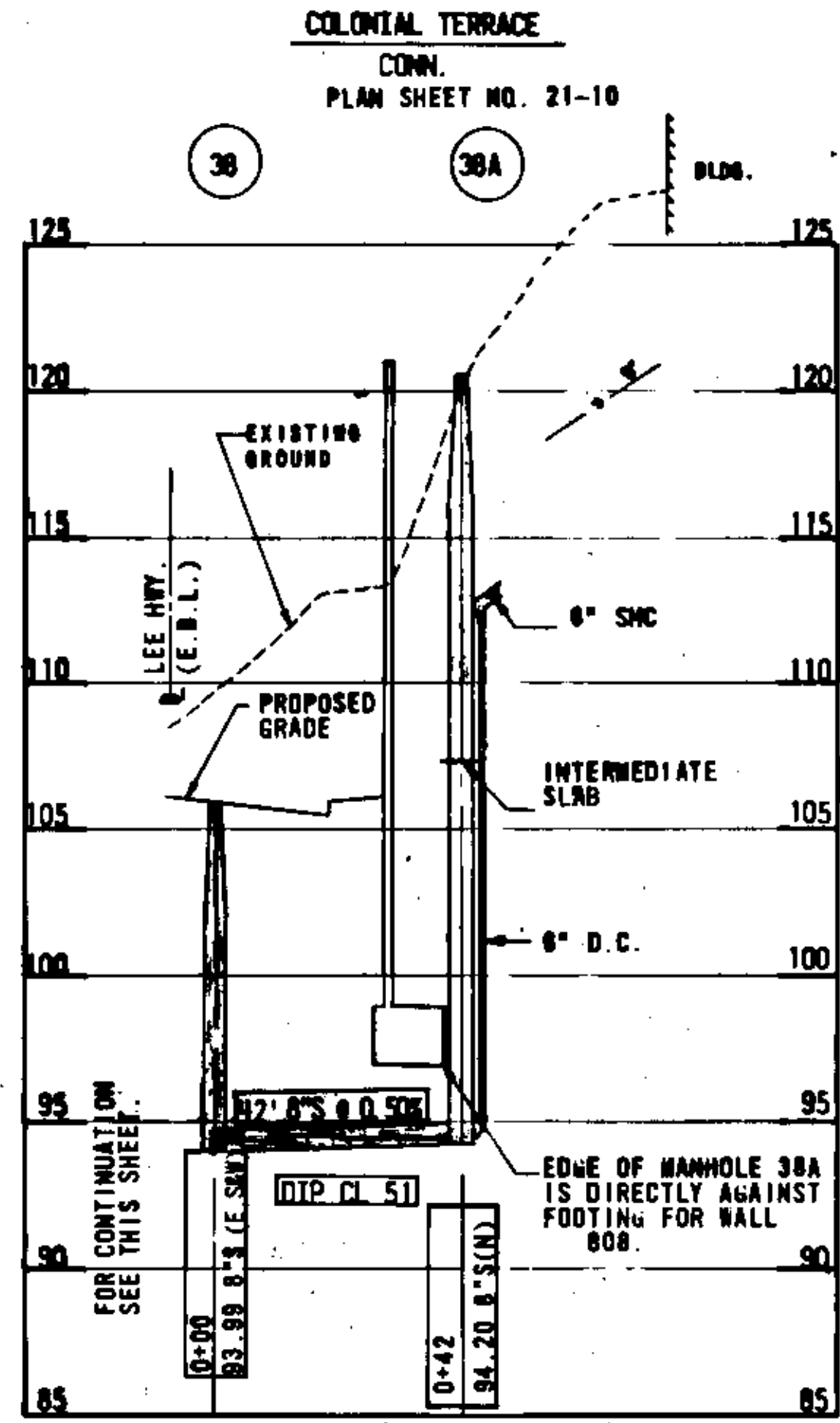
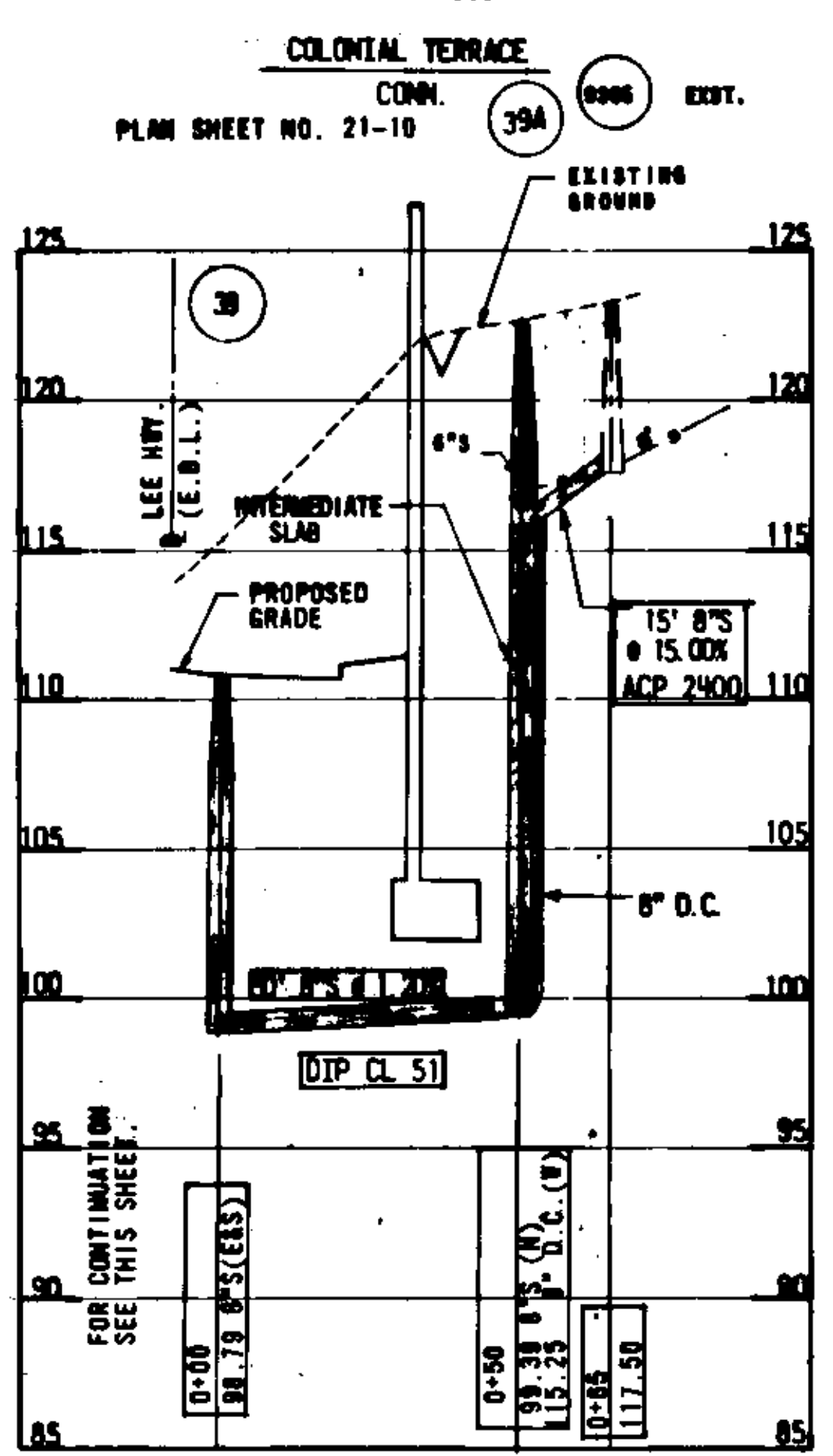
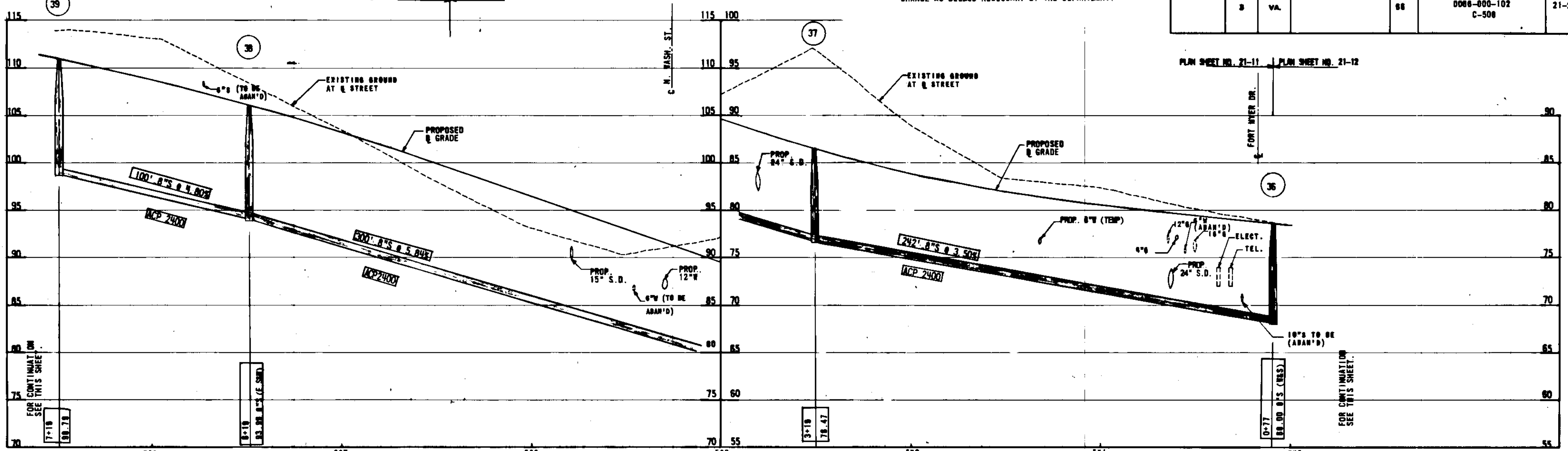
FOR CONTINUATION SEE THIS SHEET.

FOR CONTINUATION SEE THIS SHEET.

LEE HWY. (E.B.L.)
 COLONIAL TERRACE TO N. FORT MYER DR.

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

REVISED	FUND REGION	STATE	FEDERAL AID		STATE PROJECT	SHEET NO.
			PROJECT	ROUTE		
	3	VA.		68	0066-000-102 C-508	21-21

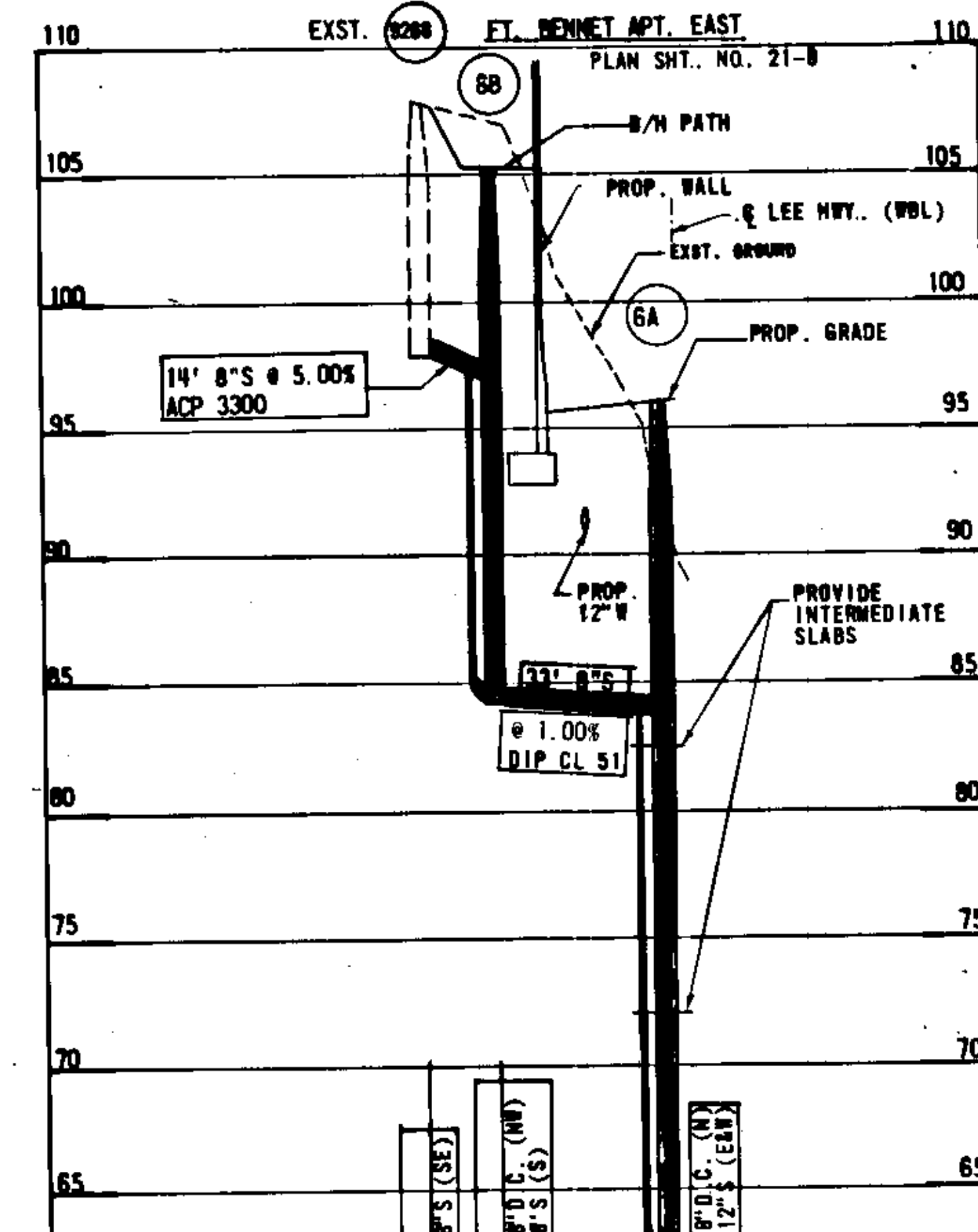
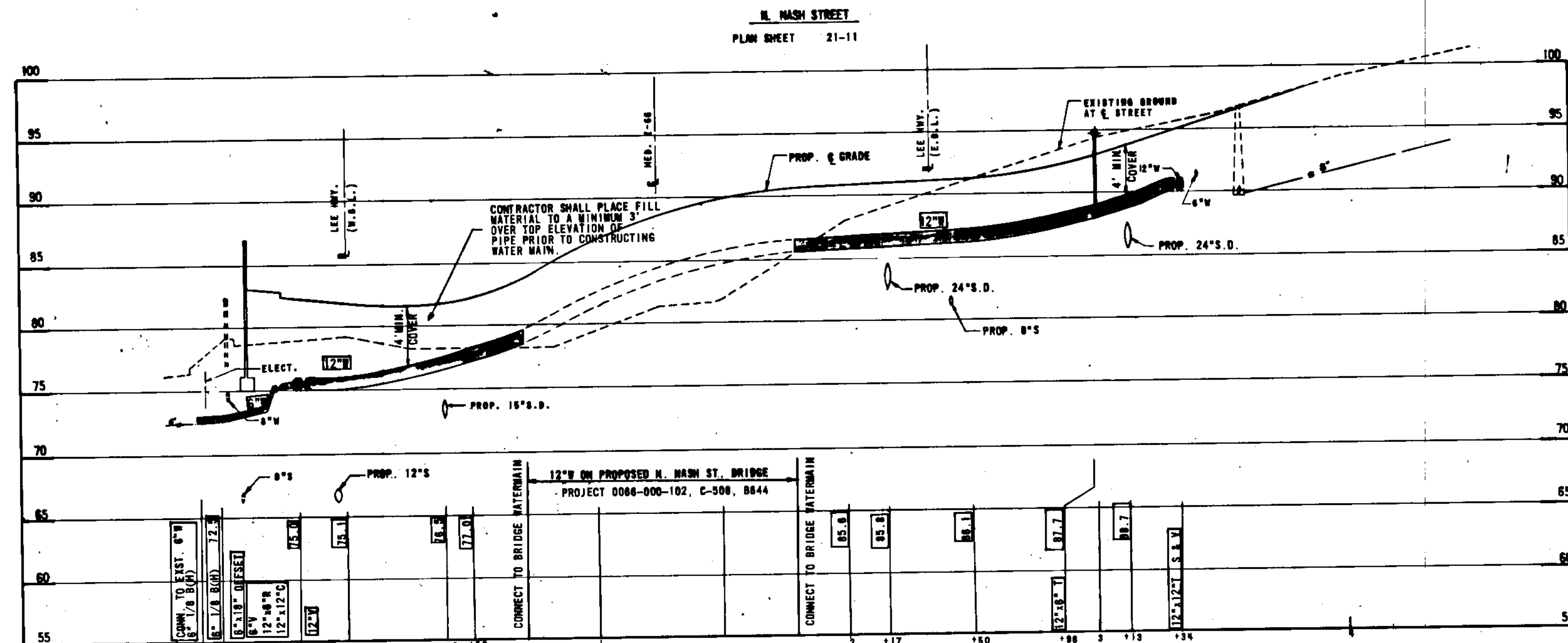
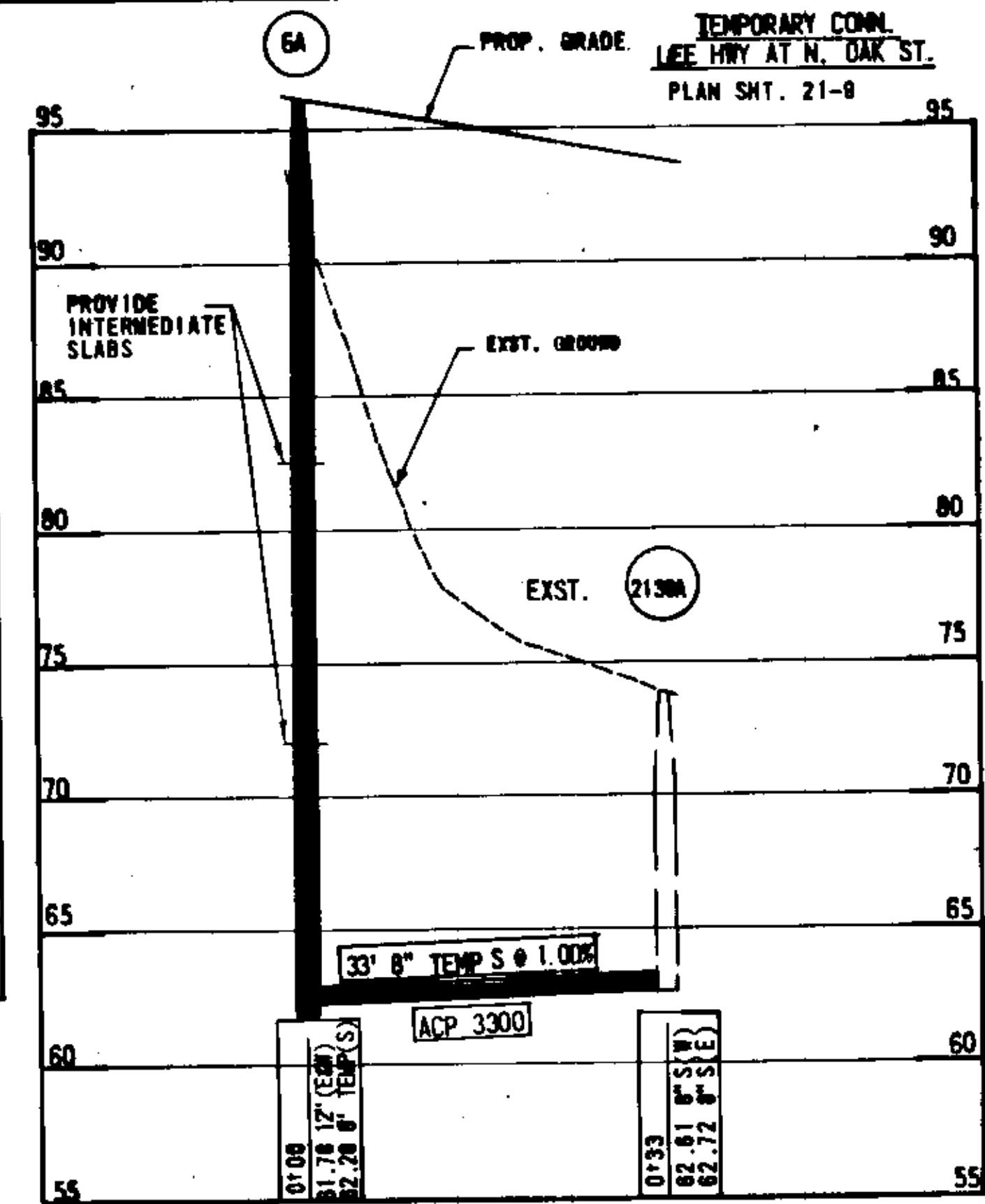
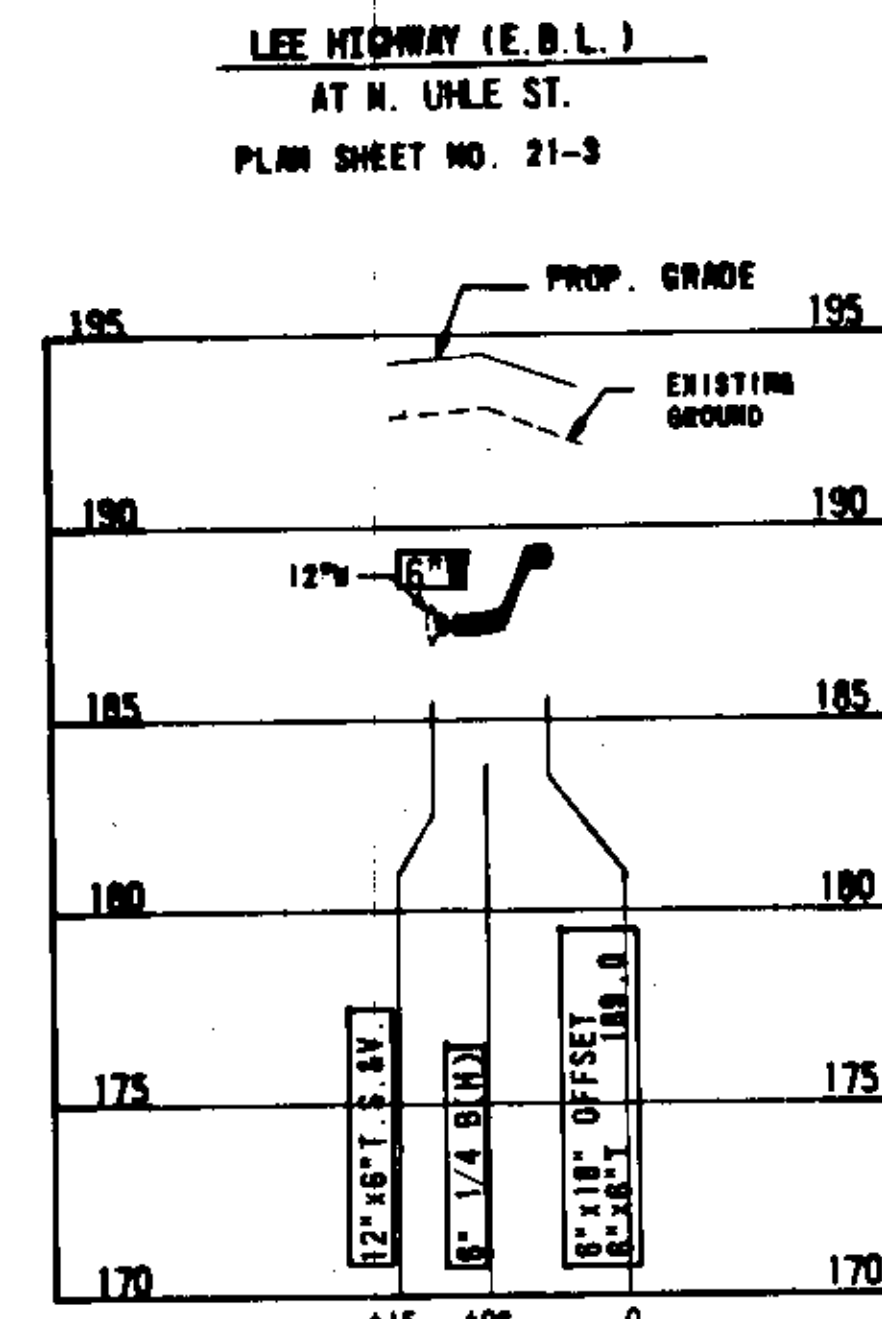
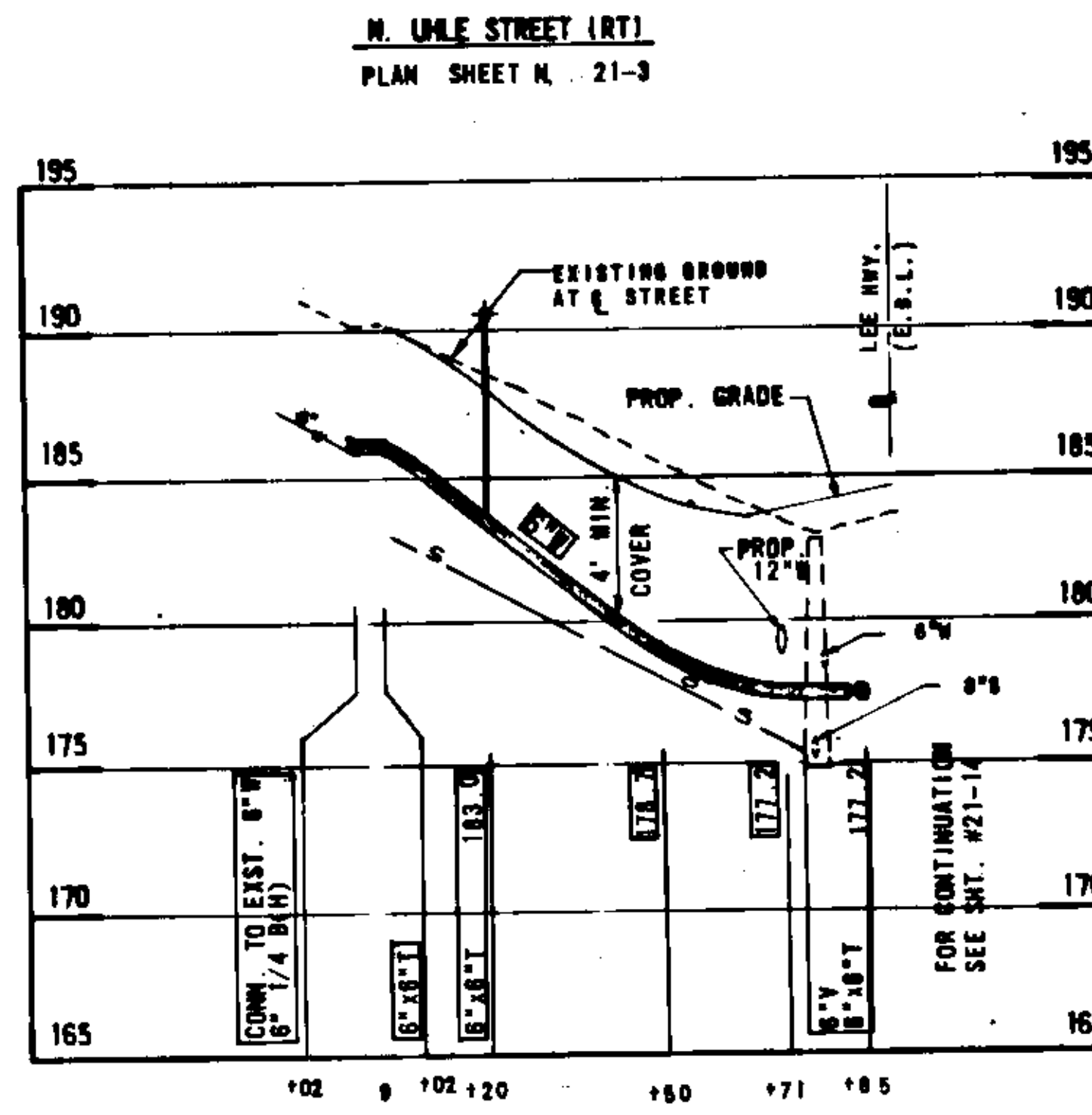
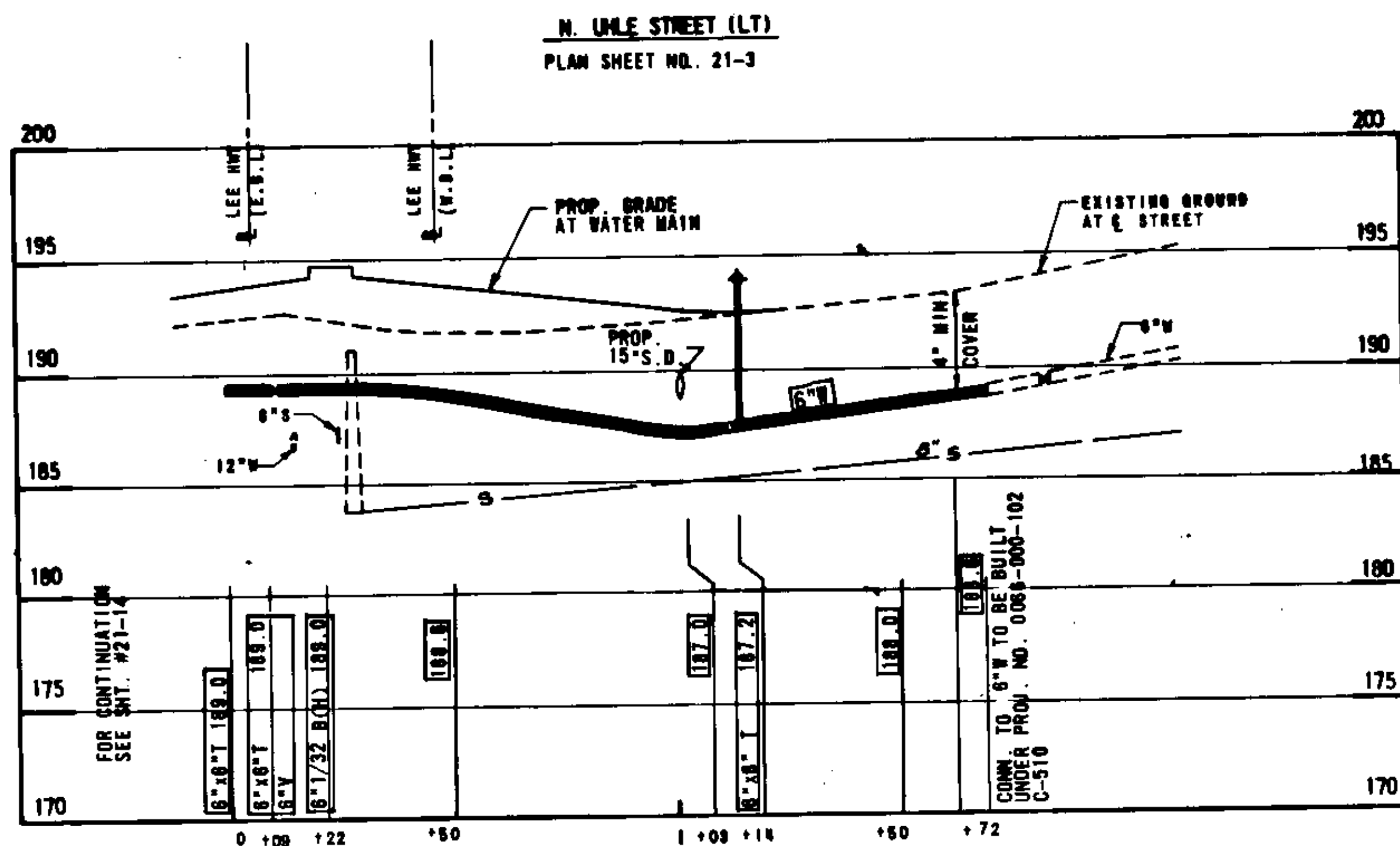


SCALE: HORZ: 1"=20'
 VERT: 1"=5'

AS-BUILT PROFILE 11-22-83
 INFORMATION BASED UPON D.P.W. INSPECTORS NOTES

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

REVISED	FEDERAL AID PROJECT	STATE PROJECT	ROUTE	STATE PROJECT		SHEET NO.
				PROJECT	ROUTE	
		VA.	86	0086-000-102 C-508		21-23



SCALE: HORIZ: 1"=25'
VERT: 1"=5'

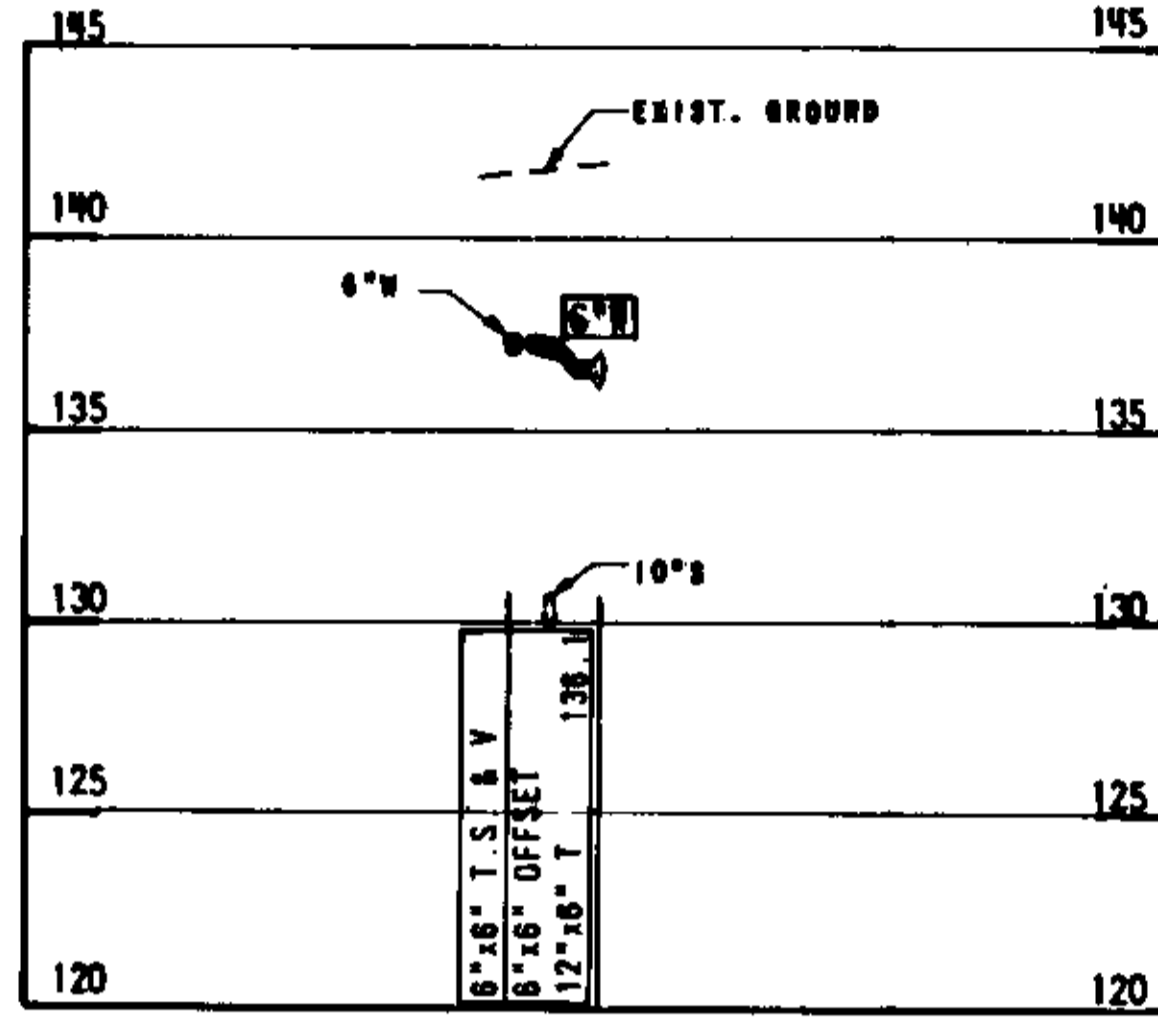
AS-BUILT PROFILE 11-25-83
INFORMATION BASED UPON D.P.M. INSPECTOR'S NOTES

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

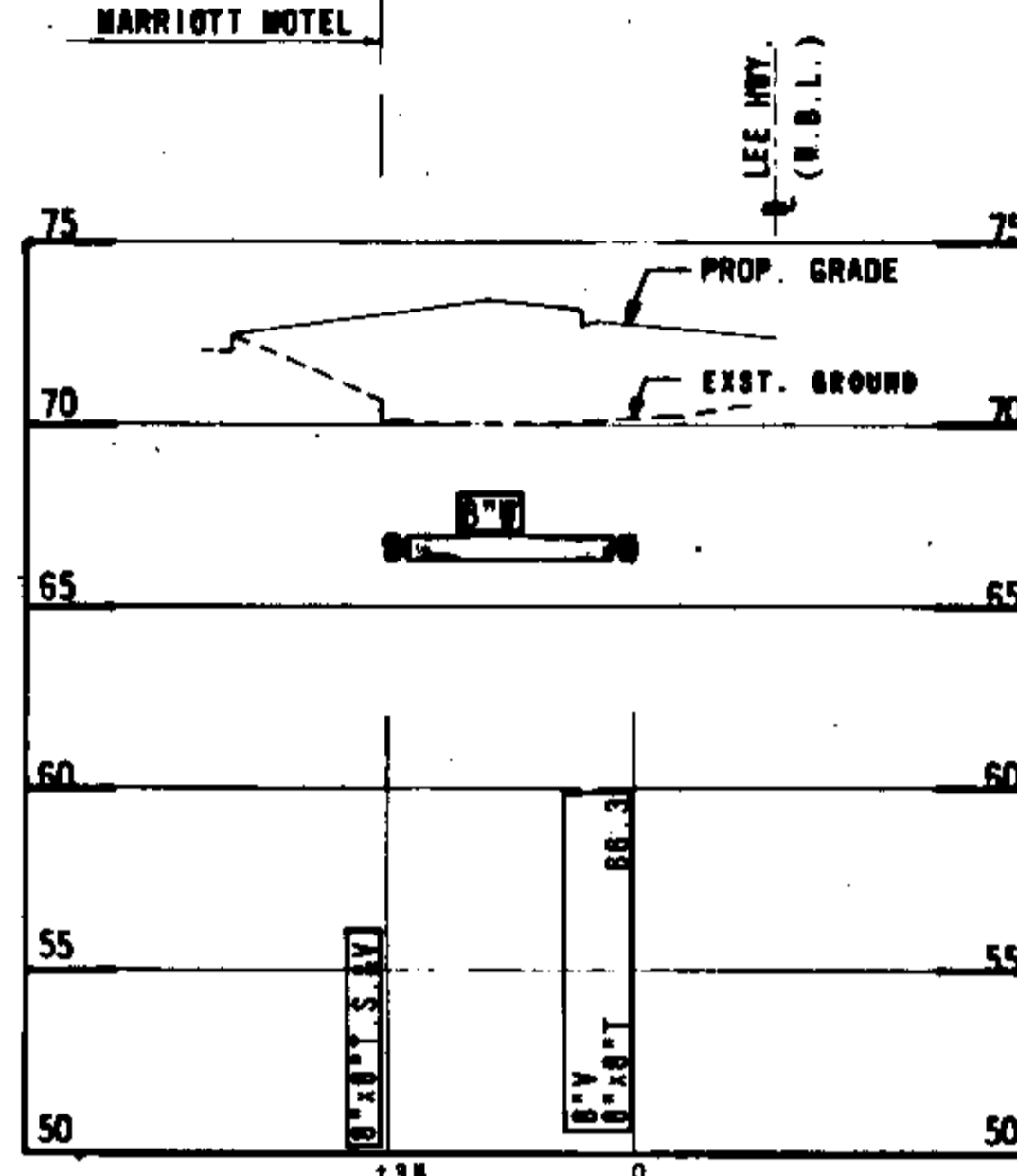
REVISED	FHWY REGION	STATE	FEDERAL AID		STATE		SHEET NO.
			PROJECT	ROUTE	PROJECT		
	3	VA.		68	0068-000-102 C-508		21-24

AS-BUILT PROFILE 11-25-03
INFORMATION BASED UPON D.P.W. INSPECTORS NOTES

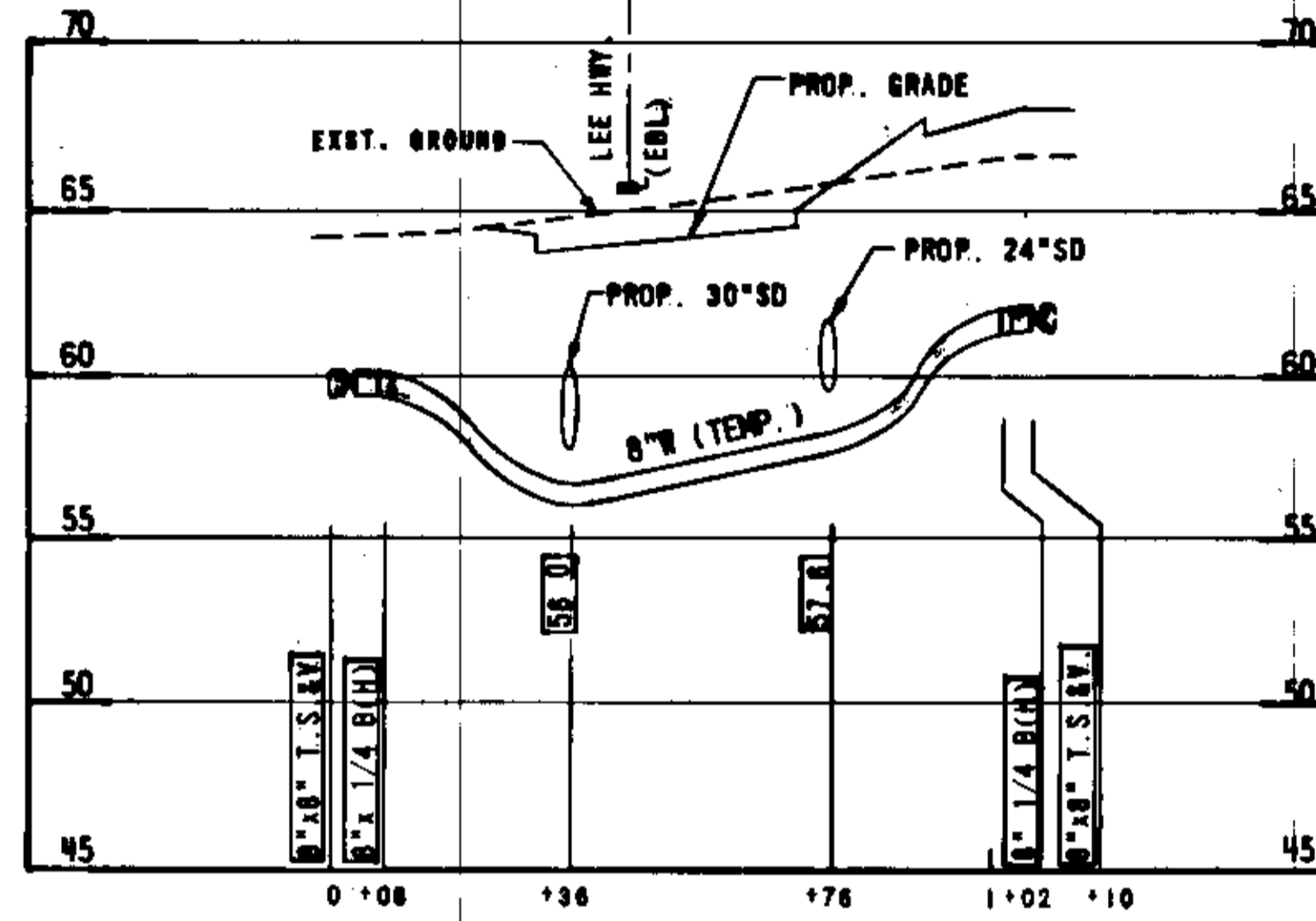
N. RHODES ST.
PLAN SHEET NO. 21-6



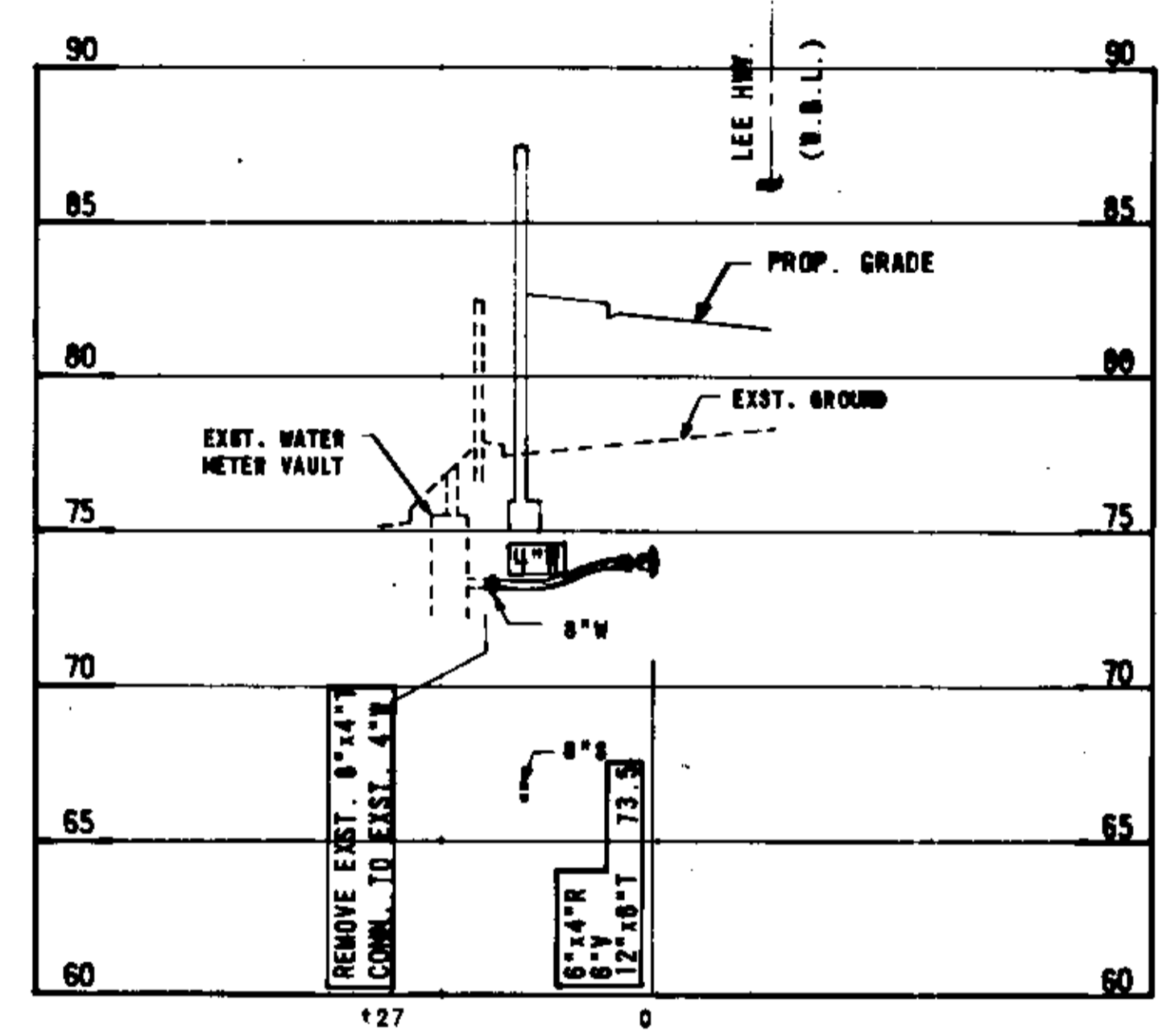
MARRIOTT HOTEL CONN.
PLAN SHEET NO. 21-11



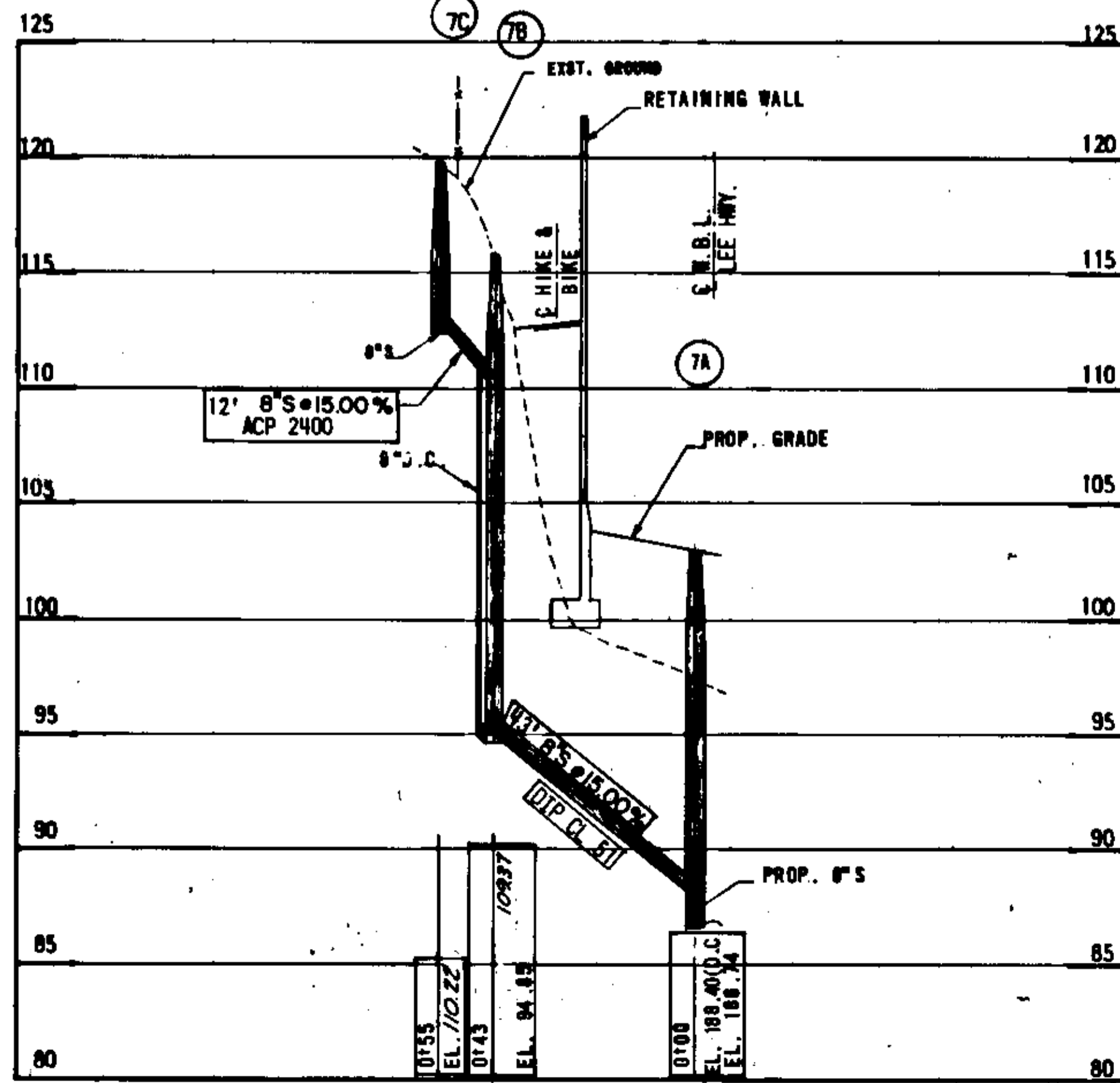
N. MOORE ST.
PLAN SHEET NO. 21-12



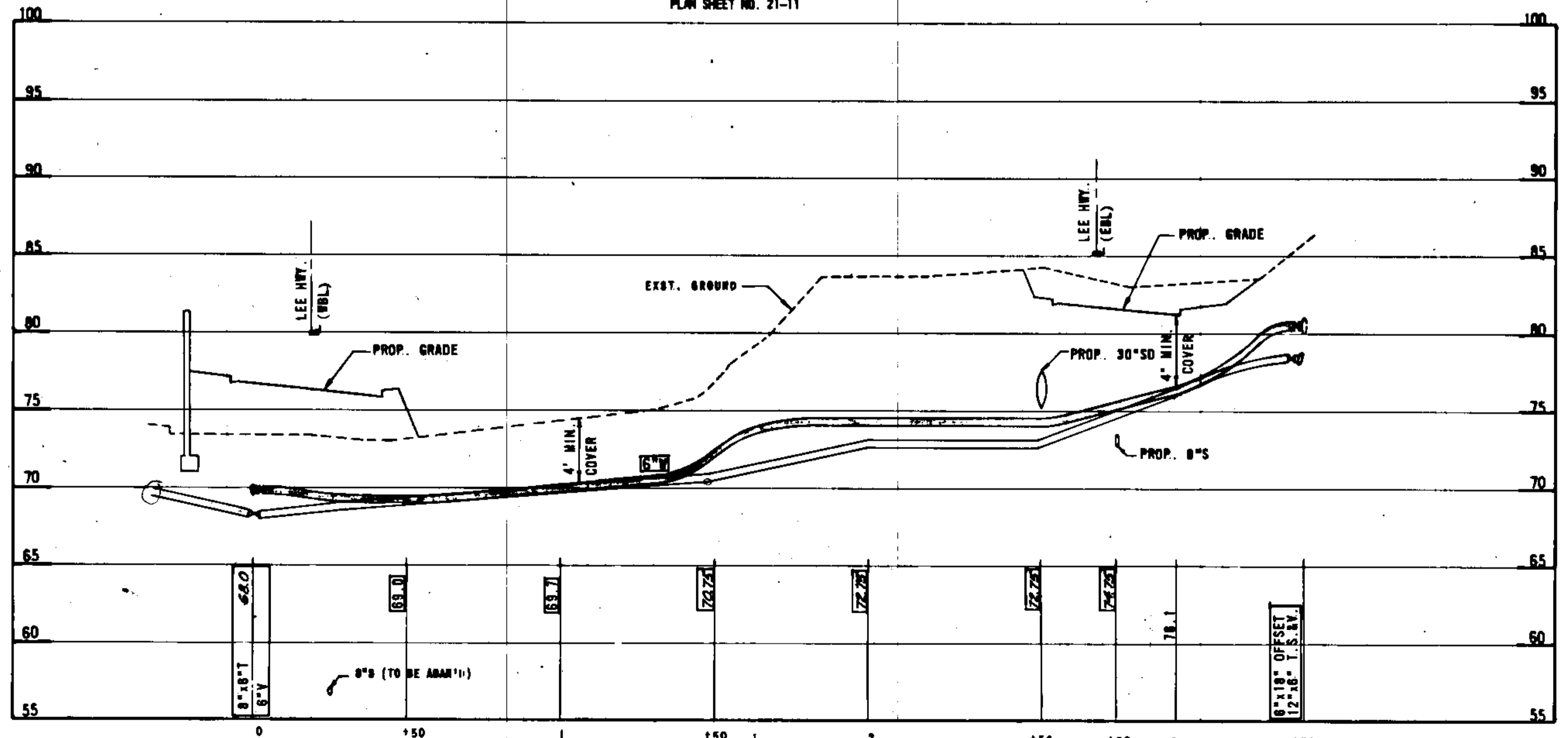
MARRIOTT HOTEL CONN.
PLAN SHEET NO. 21-11



FORT BENNET APT. CONN. (WEST)
PLAN SHT. 21-8

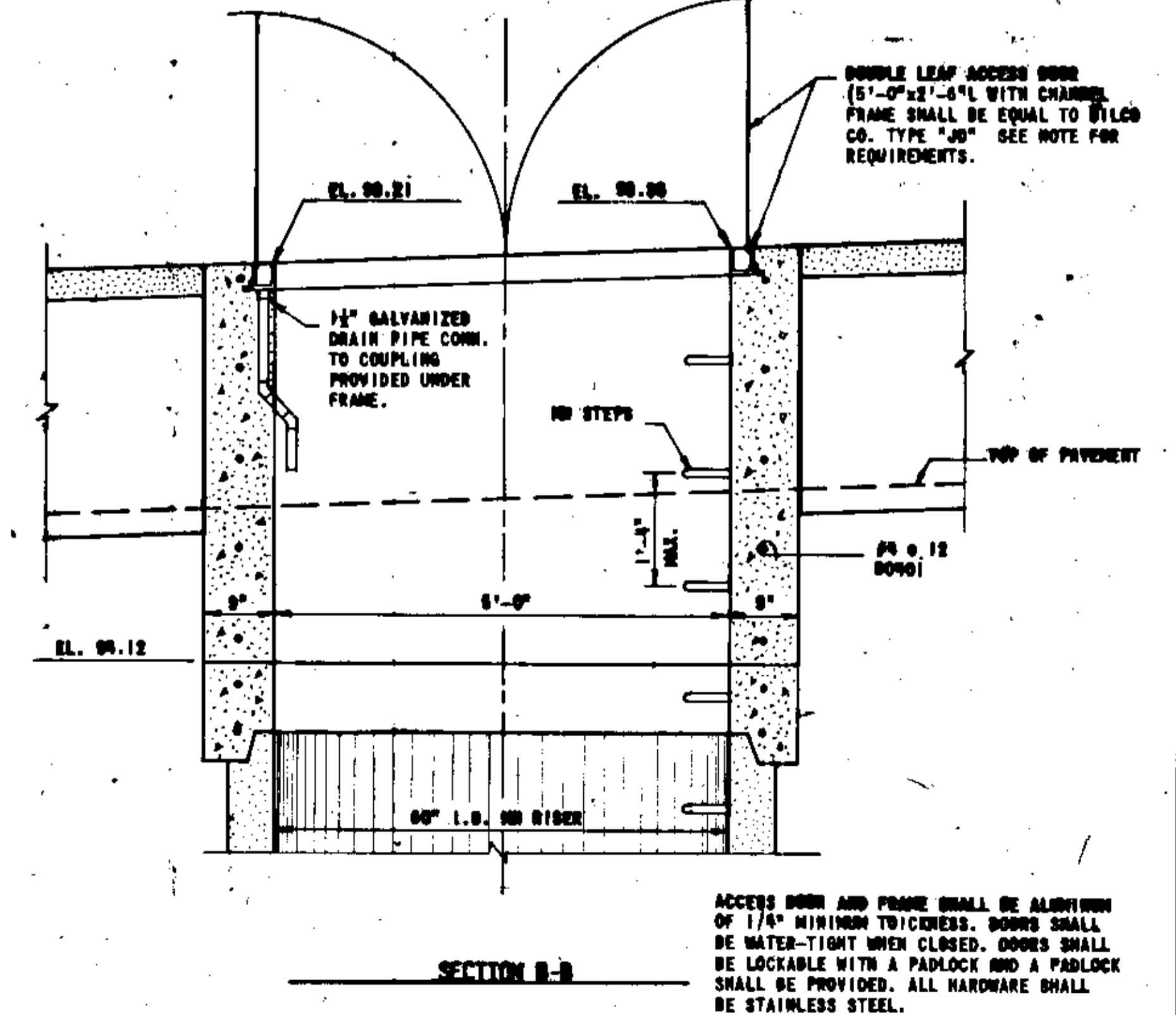
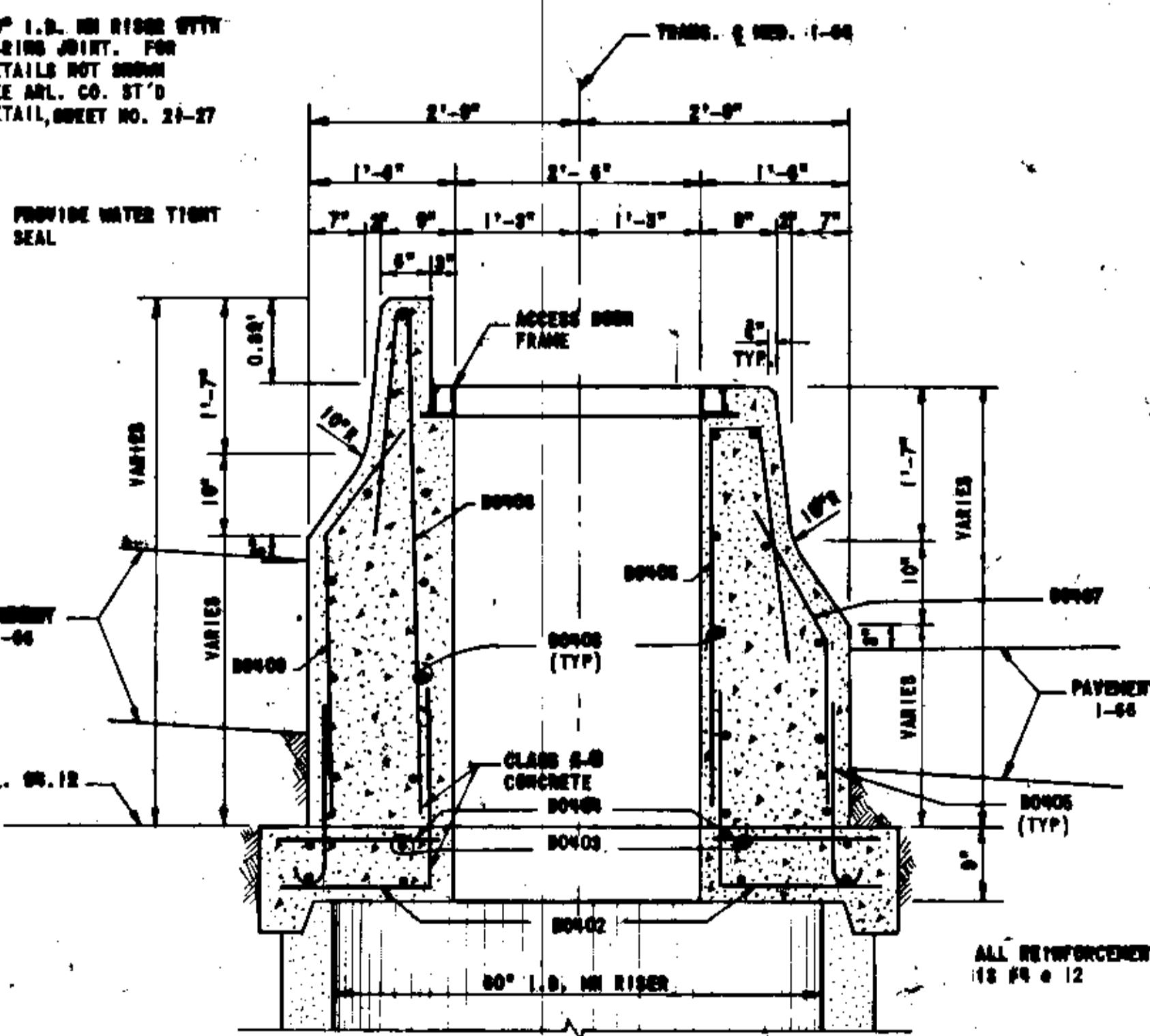
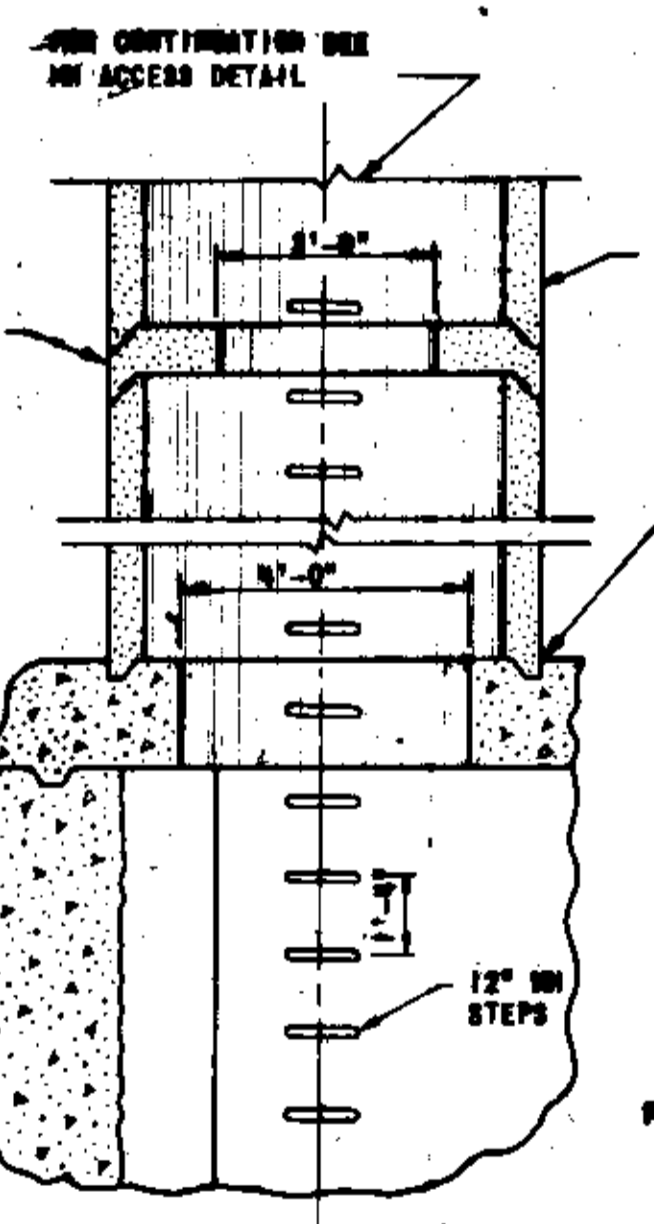
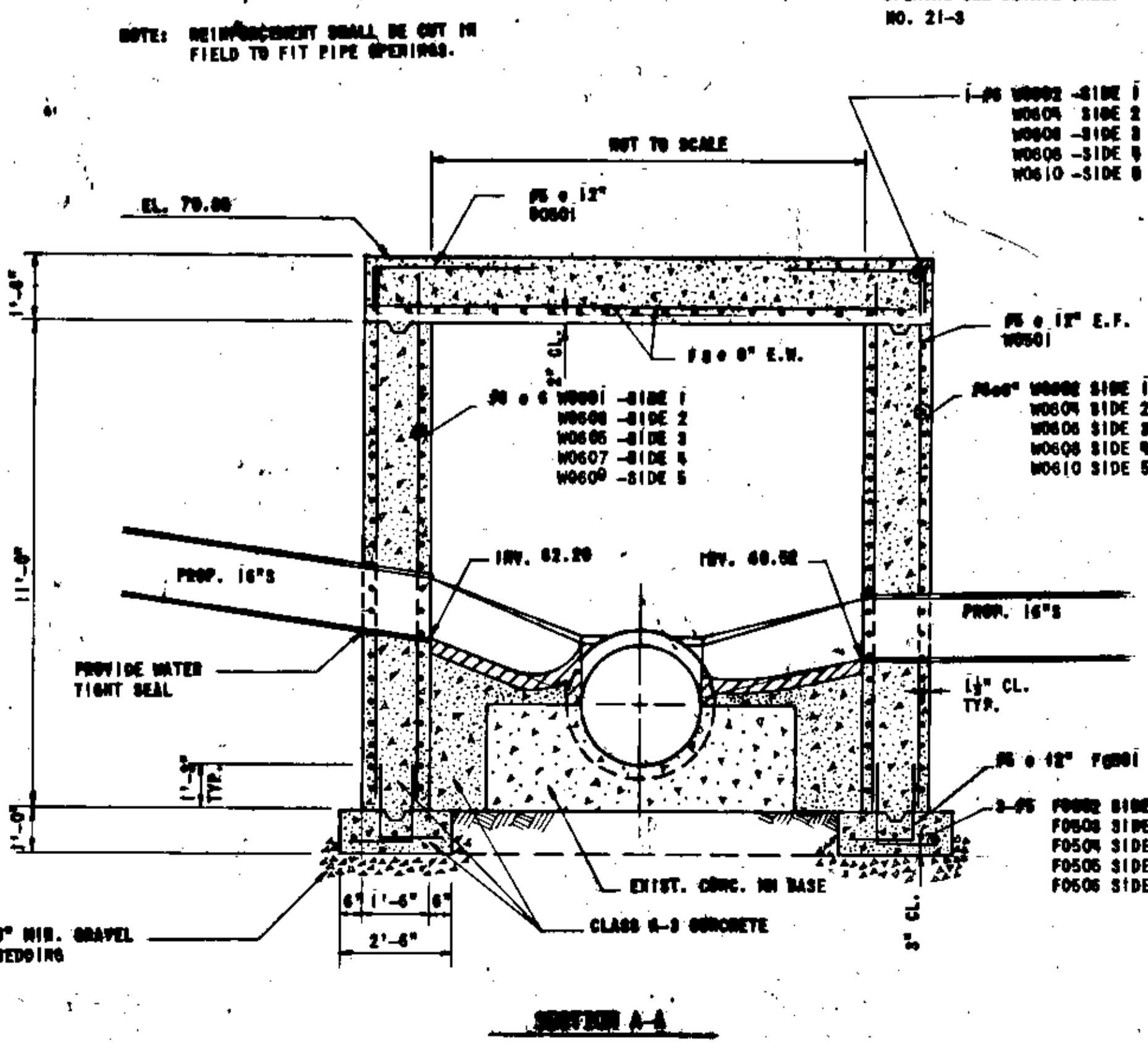
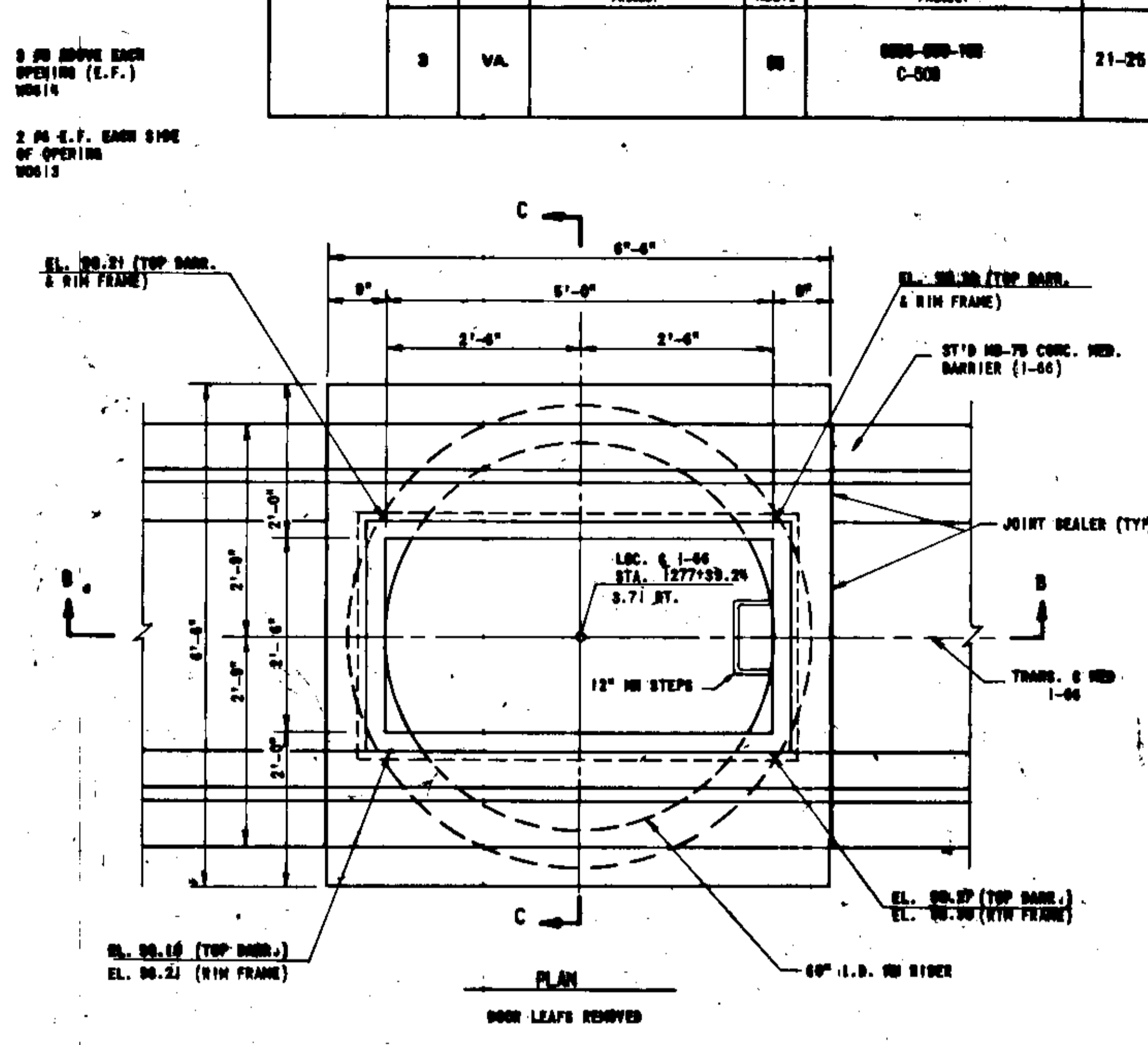
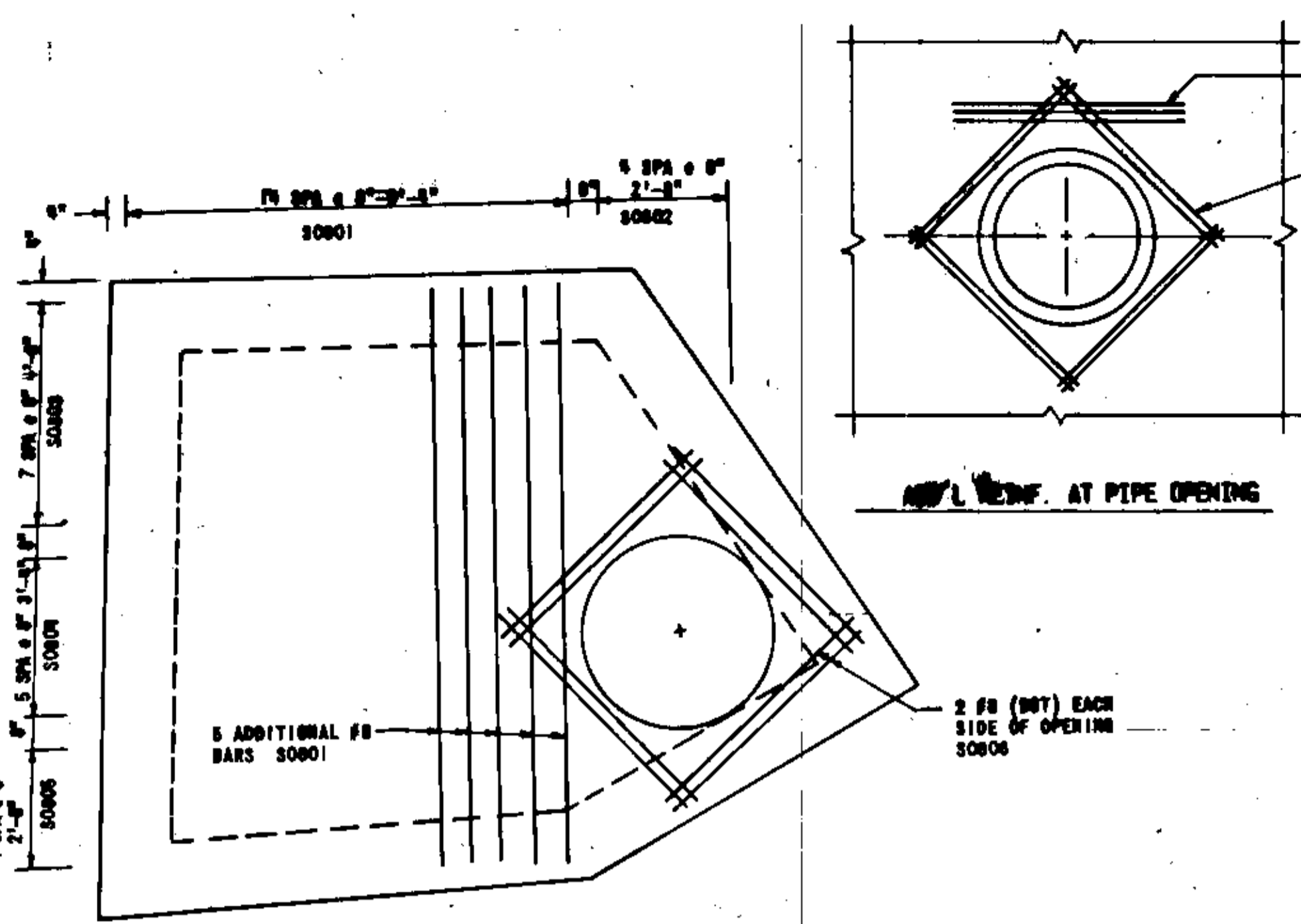
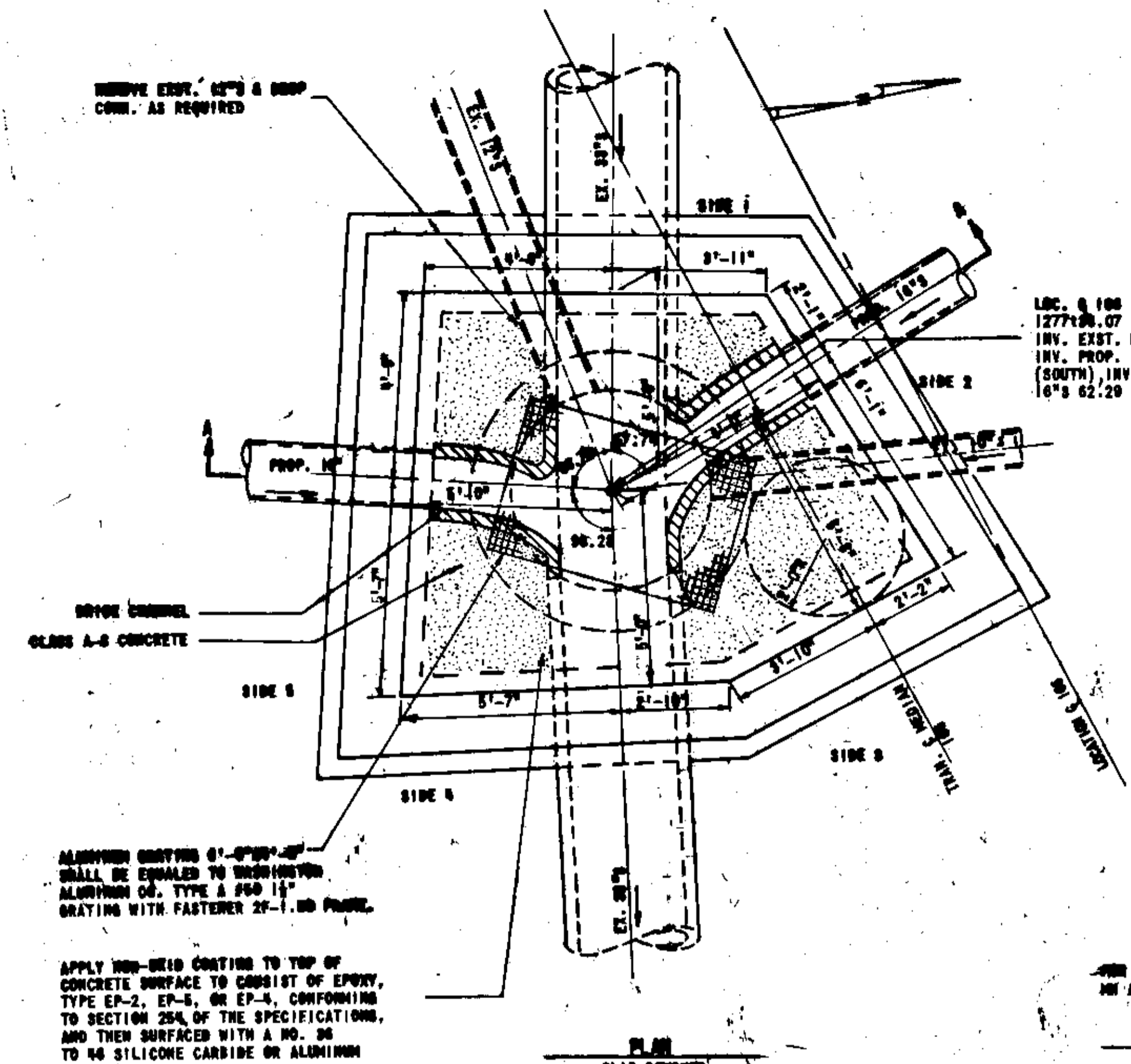


TEMPORARY WATER MAIN
EAST OF N. NASH STREET
PLAN SHEET NO. 21-11



SCALE: HORIZ: 1"=25'
VERT: 1"=5'

REVISED	FEDERAL AID PROJECT	STATE PROJECT	FEDERAL AID PROJECT	STATE PROJECT	SHEET NO.
3	VA.			688-688-108 C-508	21-25



NOTE:
 ALL CONSTRUCTION SHALL CONFORM TO ASTM SPECIFICATION A-98, CLASS 304, 308 OR 316 AND SHALL BE FACTORY COATED WITH ASPHALT VARNISH. ESTIMATED QUANTITIES AND REINFORCING SCHEDULE ON SHEET NO. 21-26.

ACCESS DOOR AND FRAME SHALL BE ALUMINUM OF 1/8\"/>

DOOR - SPECIAL DESIGN MANHOLE ACCESS
 SCALE: 3/8\"/>

SECTION B-B DOUBLE LEAF ACCESS
 SCALE: 3/8\"/>

SECTION A-A
 SCALE: 3/8\"/>

REINFORCING STEEL SCHEDULE

DIMENSION TABLE

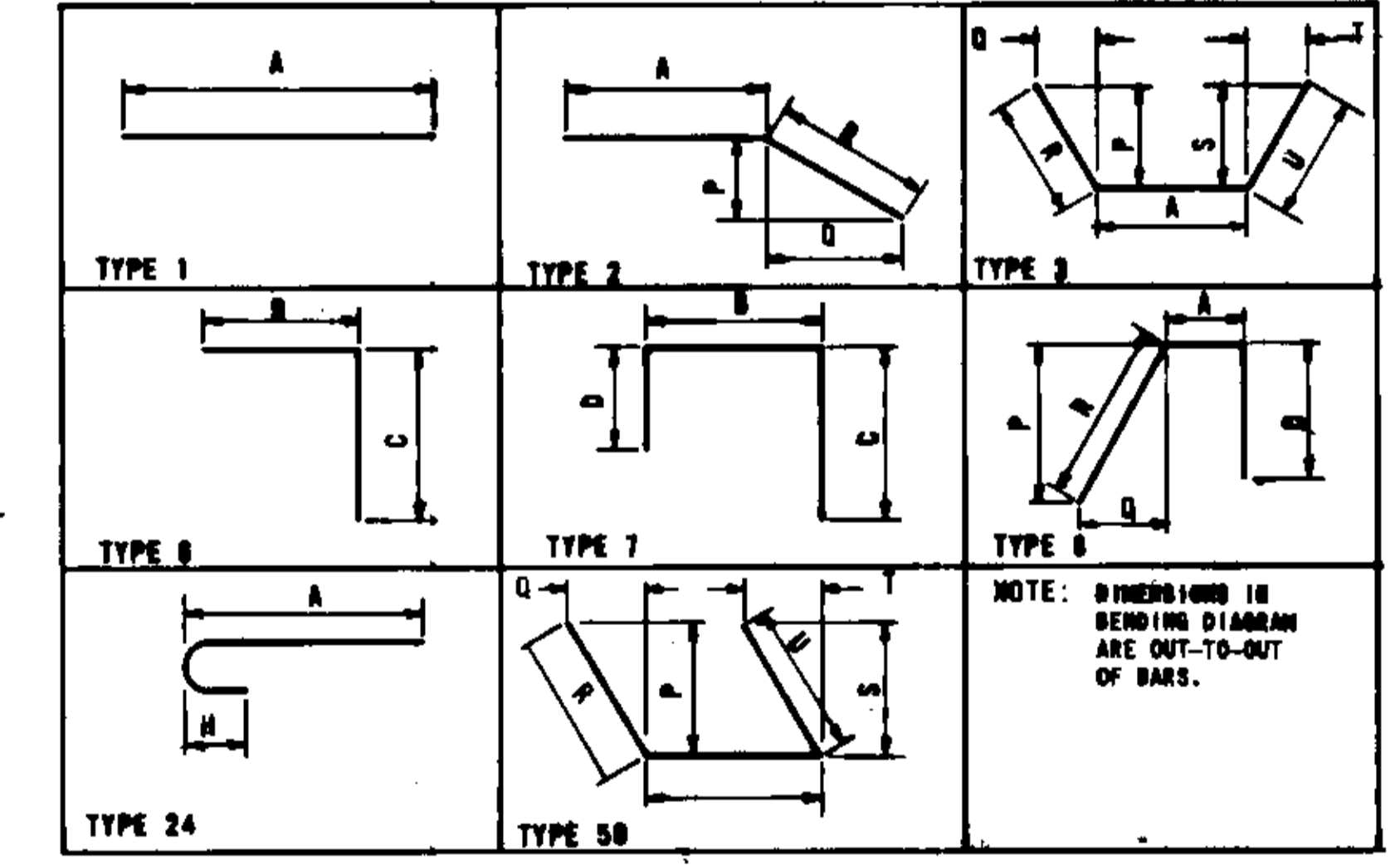
F.H.M.A. REGION	STATE	FEDERAL AID		STATE		SHEET NO.	TOTAL SHEETS
		ROUTE	PROJECT	ROUTE	PROJECT		
3	VA.			00	0060-000-102, C-500	21-20	

MARK	NO.	SIZE	PIN DIA. FT-INCHES	LENGTH		WEIGHT LBS.	LOCATION	MARK	TYPE	A	B	C	D	E	F	G	H	I	J	K	L	V	N					
				FT-INCHES	FT-INCHES					FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES	FT-INCHES
				SPECIAL DESIGN HMMHOLE NO. 5																								
F0501	36	5	0-03 3/4	4-04		434	FOOTING	F0501	6		1-08	3-00																
F0502	3	5	0-03 3/4	12-07 TO 15-05		44	FOOTING-SIDE 1	F0502	3	VARIES				2-02	0-01	2-02		1-10	1-02	2-02								
F0503	3	5	0-03 3/4	11-11 TO 15-01		42	FOOTING-SIDE 2	F0503	50	VARIES				1-10	1-02	2-02		2-02	0-03	2-02								
F0504	3	5	0-03 3/4	9-11 TO 12-05		35	FOOTING-SIDE 3	F0504	50	VARIES				0-10	2-00	2-02		2-02	0-03	2-02								
F0505	3	5	0-03 3/4	12-03 TO 14-09		42	FOOTING-SIDE 4	F0505	50	VARIES				0-10	2-00	2-02		2-02	0-03	2-02								
F0506	3	5	0-03 3/4	13-11 TO 17-11		50	FOOTING-SIDE 5	F0506	50	VARIES				2-02	0-01	2-02		2-02	0-03	2-02								
N0601	21	6	0-04 1/2	13-00		410	WALL-SIDE 1	N0601	3	9-02				2-00	0-01	2-00		1-08	1-01	2-00								
N0602	22	6	0-04 1/2	14-05		476	WALL-SIDE 1	N0602	3	10-07				2-00	0-01	2-00		1-08	1-01	2-00								
N0603	21	6	0-04 1/2	12-05		392	WALL-SIDE 2	N0603	50	8-07				1-08	1-01	2-00		2-00	0-03	2-00								
N0604	22	6	0-04 1/2	14-00		483	WALL-SIDE 2	N0604	50	10-02				1-08	1-01	2-00		2-00	0-03	2-00								
N0605	21	6	0-04 1/2	10-03		323	WALL-SIDE 3	N0605	50	8-05				0-08	1-18	2-00		2-00	0-03	2-00								
N0606	22	6	0-04 1/2	14-10		490	WALL-SIDE 3	N0606	50	7-07				0-08	1-10	2-00		2-00	0-03	2-00								
N0607	21	6	0-04 1/2	12-08		394	WALL-SIDE 4	N0607	50	8-08				0-08	1-10	2-00		2-00	0-03	2-00								
N0608	22	6	0-04 1/2	13-10		457	WALL-SIDE 4	N0608	50	10-00				0-08	1-10	2-00		2-00	0-03	2-00								
N0609	21	6	0-04 1/2	14-07		480	WALL-SIDE 5	N0609	50	10-10				2-00	0-01	2-00		2-00	0-03	2-00								
N0610	22	6	0-04 1/2	16-07		548	WALL-SIDE 5	N0610	50	12-10				2-00	0-01	2-00		2-00	0-03	2-00								
N0611							NOT USED	N0611																				
N0612							NOT USED	N0612																				
N0613	04	6		5-06		520	PIPE OPENING	N0613	1	5-06																		
N0614	24	6		8-00		218	PIPE OPENING	N0614	1	8-00																		
S0801	50	5	0-03 3/4	4-00		200	SLAB	S0801	6		1-02	3-00																
S0802	20	8		12-03		854	SLAB	S0802	1	12-03																		
S0803	5	8		1-08 TO 5-01		48	SLAB	S0803	1	VARIES																		
S0804	8	8		10-07 TO 13-08		257	SLAB	S0804	1	VARIES																		
S0805	8	8		8-03		140	SLAB	S0805	1	8-03																		
S0806	5	8		10-06 TO 14-01		184	SLAB	S0806	1	VARIES																		
S0807	8	8		8-00		128	SLAB	S0807	1	8-08																		
B0401	14	4	0-03	7-02		67	BARRIER	B0401	7		0-02	0-08	0-08															
B0402	14	4	0-03	3-05		32	BARRIER	B0402	6		1-08	2-00																
B0403	28	4		8-00		112	BARRIER	B0403	1	8-00																		
B0404	14	4		1-08		14	BARRIER	B0404	1	1-08																		
B0405	14	4	0-03	2-04		22	BARRIER	B0405	24	1-10											0-04 1/2							
B0406	7	4	0-03	5-08		27	BARRIER	B0406	8	0-05			2-02	2-02	0-02	2-02												
B0407	7	4	0-03	2-10		13	BARRIER	B0407	2	1-00				1-00	1-08	1-10												
B0408	7	4	0-03	8-08		32	BARRIER	B0408	8	0-04			4-04	2-02	0-02	2-02												
B0409	7	4	0-03	3-10		18	BARRIER	B0409	2	2-00				1-00	1-08	1-10												
						TOTAL	8847																					

DIMENSION VARIATION TABLE

MARK	NO.	EA.	LEN.	DIMENSION	FROM	TO	VAR BY	DIMENSION	FROM	TO	VAR BY
					FT-INCHES	FT-INCHES	FT-INCHES		FT-INCHES	FT-INCHES	FT-INCHES
F0502	1	A	8-05		11-03	1-05					
F0503	1	A	7-08		10-11	1-07					
F0504	1	A	5-09		8-03	1-03					
F0505	1	A	8-01		10-07	1-03					
F0506	1	A	9-10		13-10	2-00					
S0802	1	A	1-08		5-01	0-10					
S0809	1	A	10-07		13-06	0-05					
S0805	1	A	10-05		14-01	0-11					

FABRICATION BENDING DIAGRAMS



SPECIAL DESIGN HMMHOLE WILL BE MEASURED COMPLETE IN PLACE AND WILL BE PAID FOR AS A CONTRACT UNIT PRICE PER EACH, WHICH PRICE SHALL BE FULL COMPENSATION FOR ANY EXCAVATION, SHEETING AND SHORING, FURNISHING AND PLACING CONCRETE, REINFORCEMENT, STEPS, FRAME AND COVER, PRECAST HMMHOLE SECTIONS, BACKFILL WITH SUITABLE MATERIAL, COMPACTION, DISPOSAL OR ANY SURPLUS OR UNSUITABLE MATERIAL, AND FOR ALL MATERIALS, LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

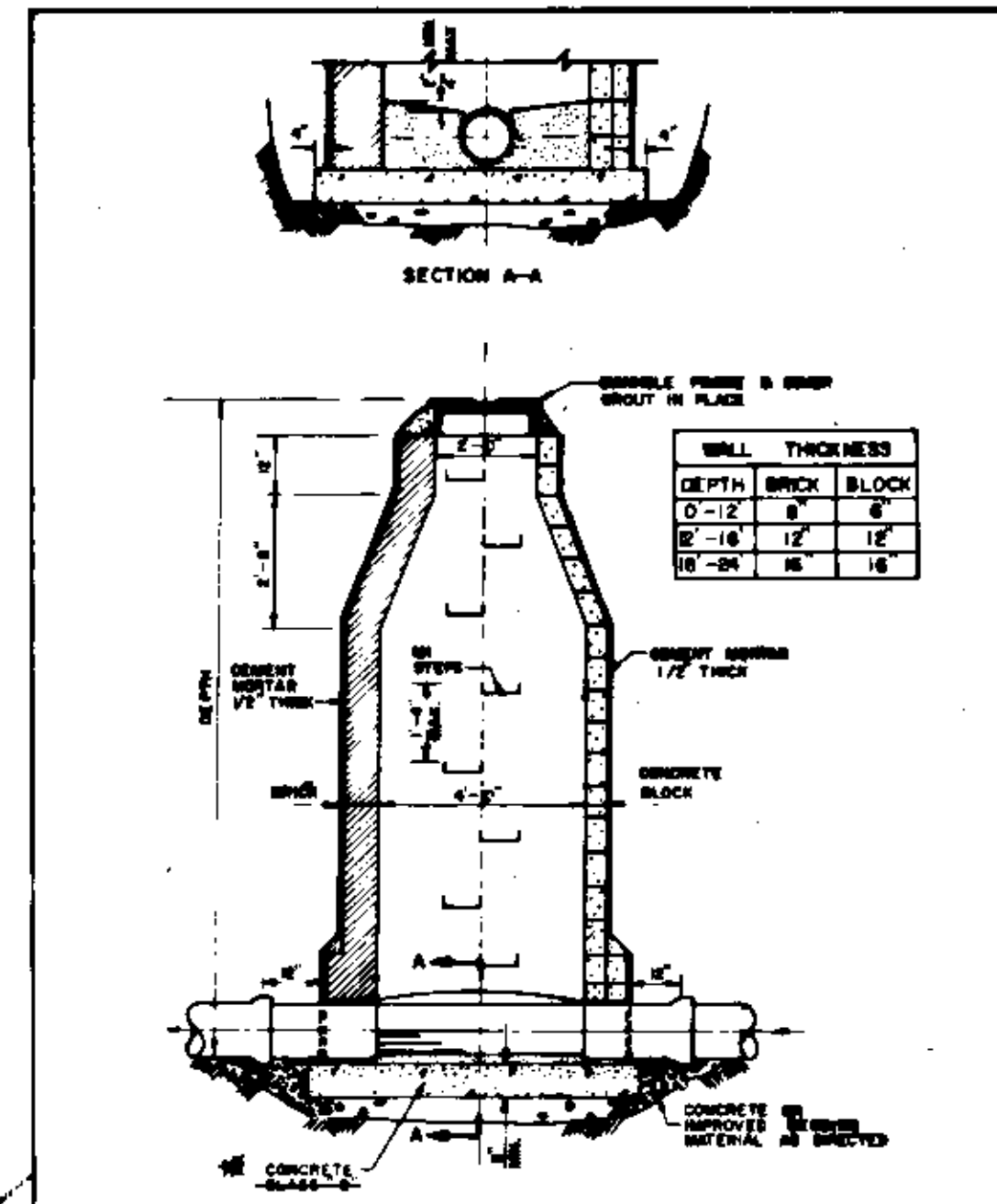
ESTIMATED QUANTITIES - SPECIAL DESIGN HMMHOLE NO. 5
 57.5 C.Y. CLASS AS CONCRETE
 8800 LBS. REINFORCING STEEL
 22.5 L.F. 5'-0" I.D. CONCRETE RISER PIPE.
 DEFORMED REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

DRAWN BY:
 TRACED BY:
 CHECKED BY:

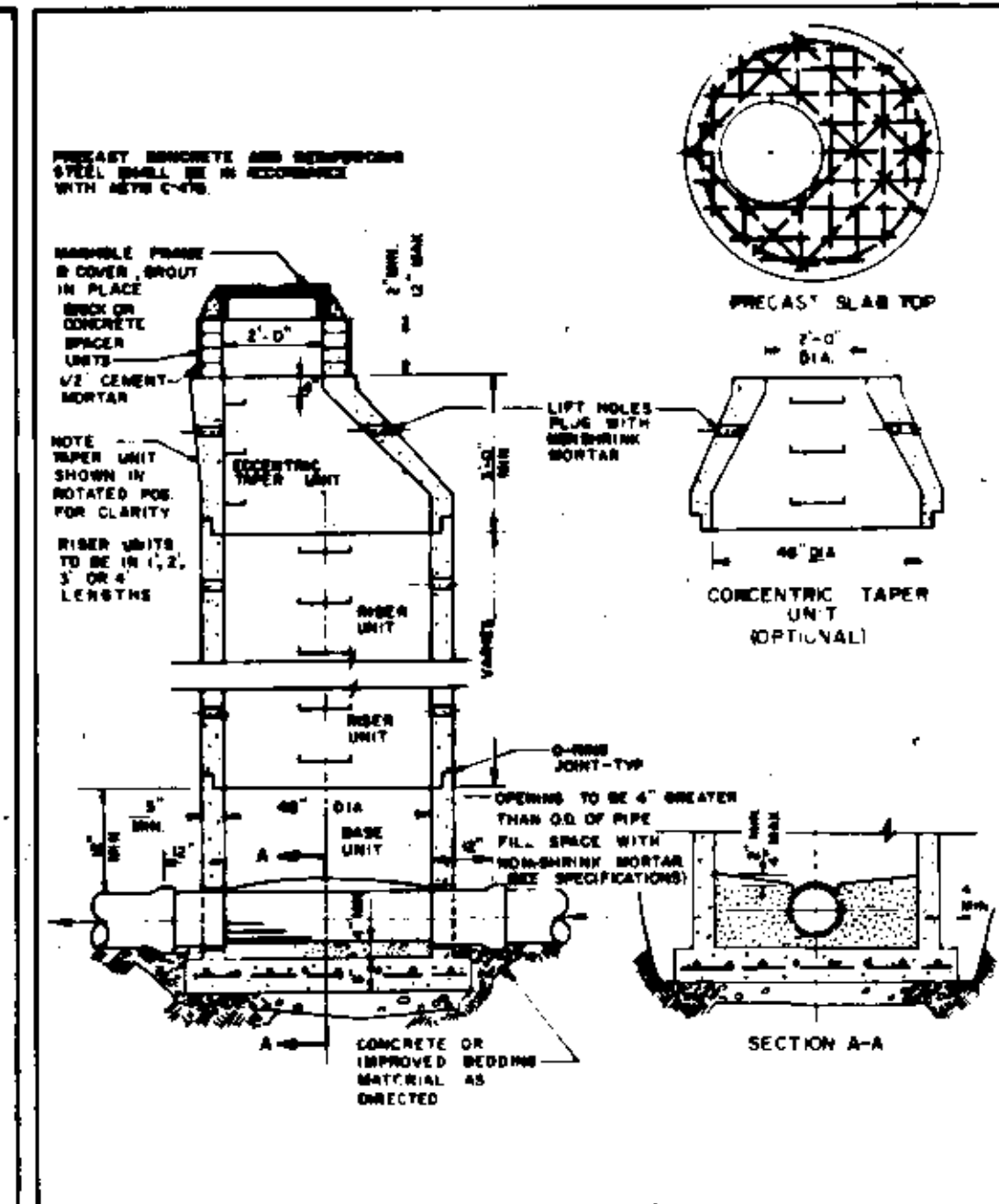
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

REVISED	FHWA REGION	STATE	FEDERAL AID PROJECT ROUTE	STATE PROJECT ROUTE	STATE PROJECT	SHEET NO
	2	VA		88	6088-888-182 C-508	21-27

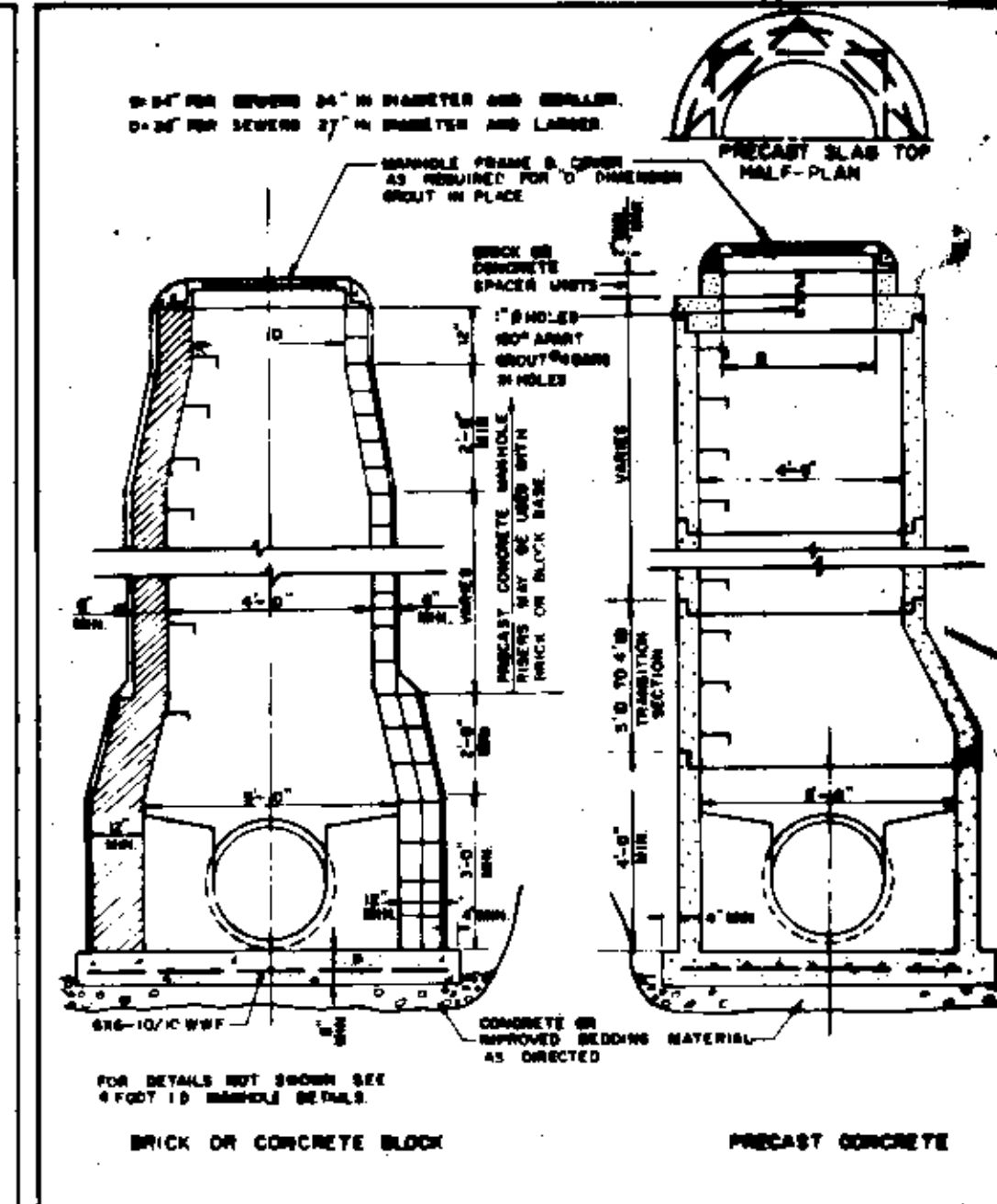
ALL CONCRETE SHALL BE CLASS A-3



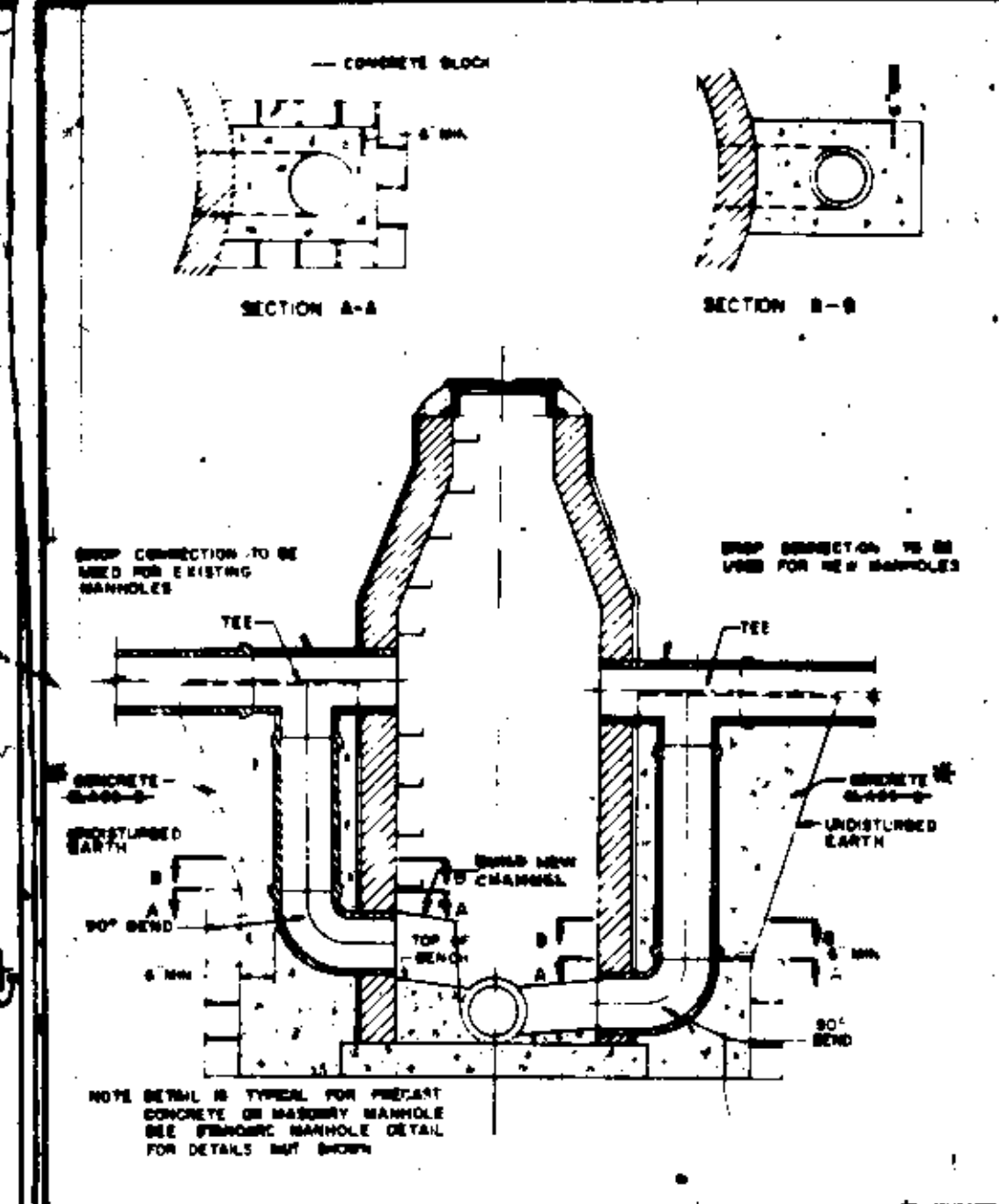
APPROVED *[Signature]*
 DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
4-FOOT L.D. MANHOLE BRICK OR CONCRETE BLOCK CONSTRUCTION
 DRAWING NUMBER S-1



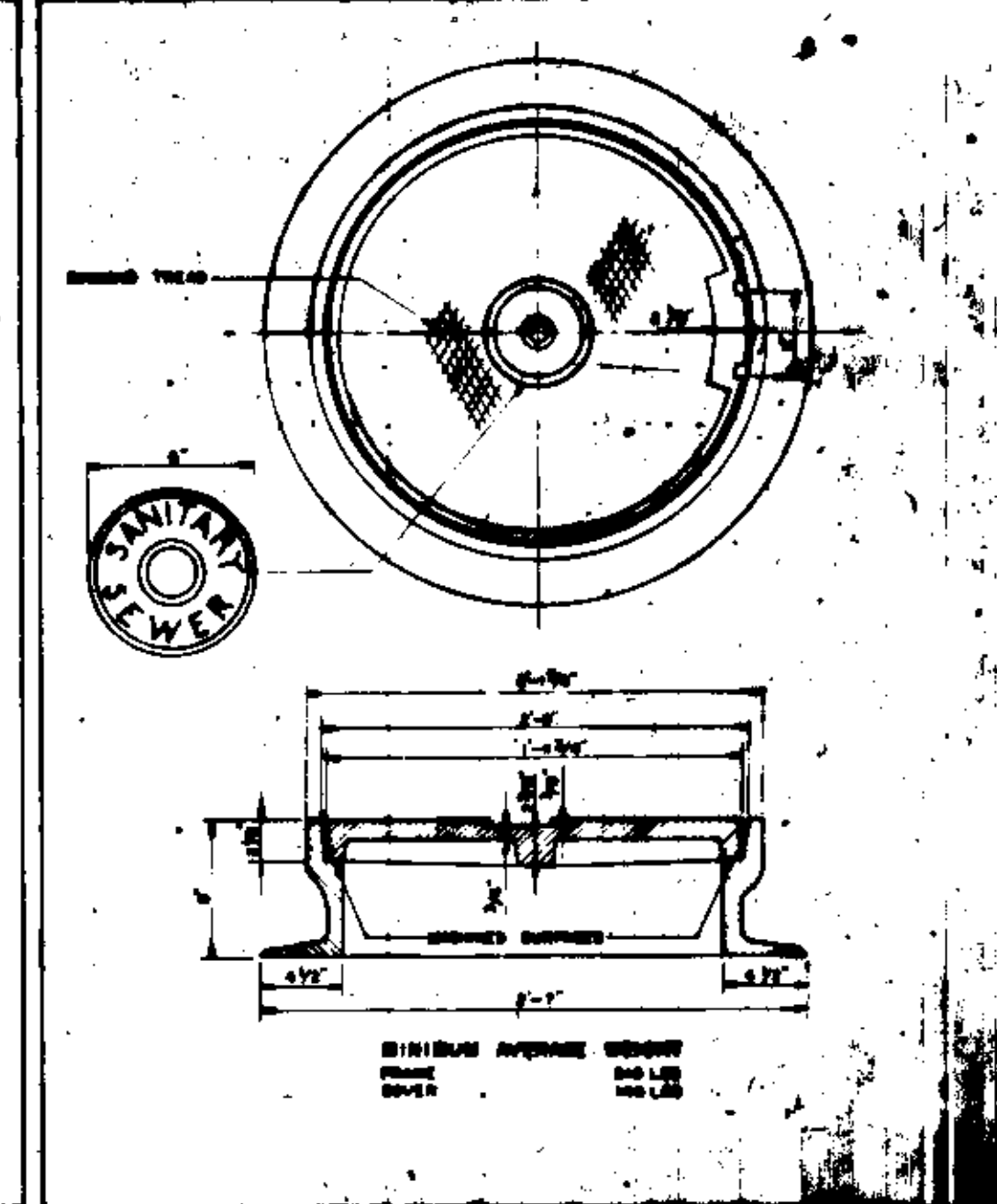
APPROVED *[Signature]*
 DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
4-FOOT L.D. MANHOLE PRECAST CONCRETE
 DRAWING NUMBER S-2



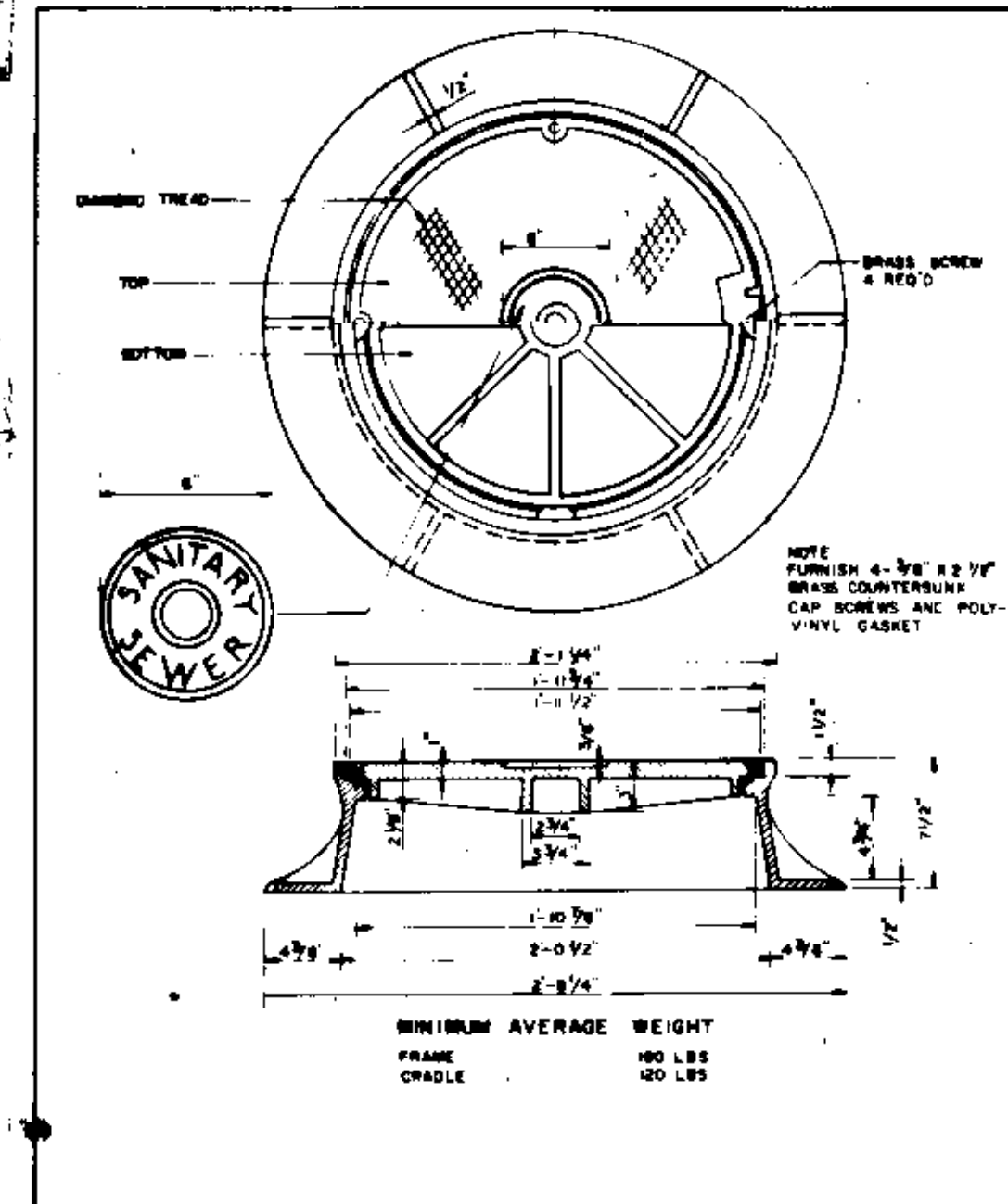
APPROVED *[Signature]*
 DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
5-FOOT L.D. MANHOLE
 DRAWING NUMBER S-3



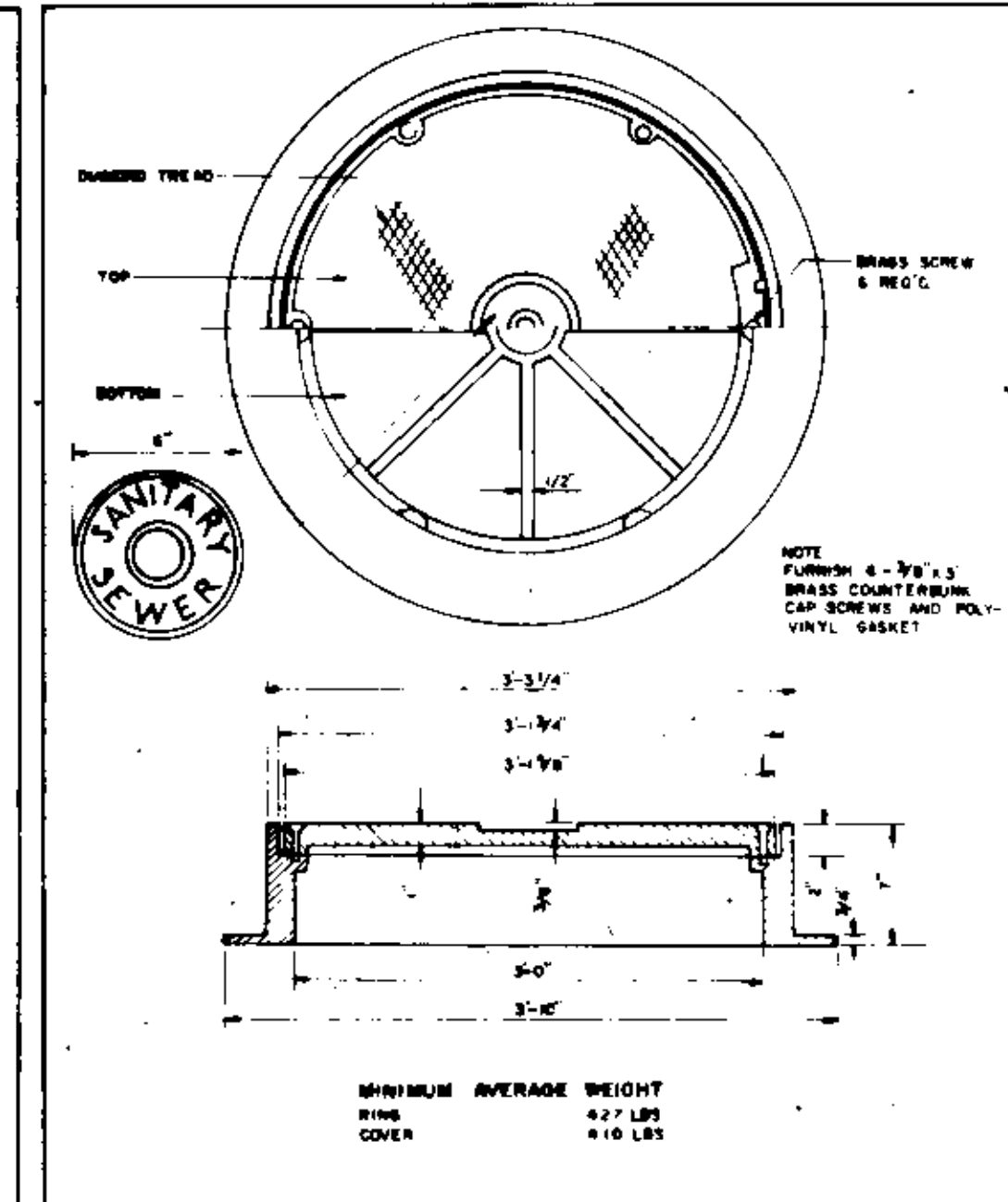
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 DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
DROP CONNECTION
 DRAWING NUMBER S-4



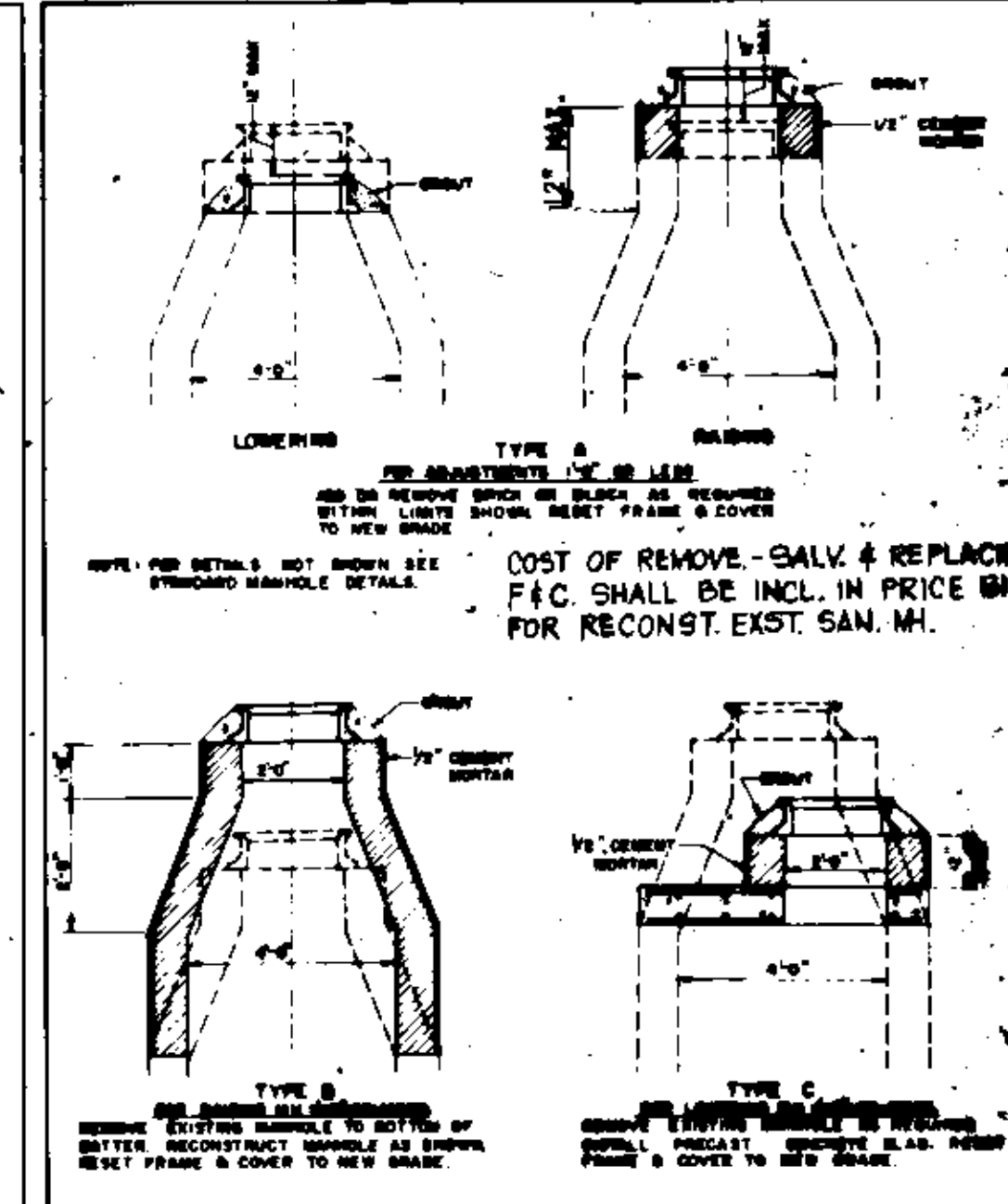
APPROVED *[Signature]*
 DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
MANHOLE FRAME & COVER MHC-1 24\"/>



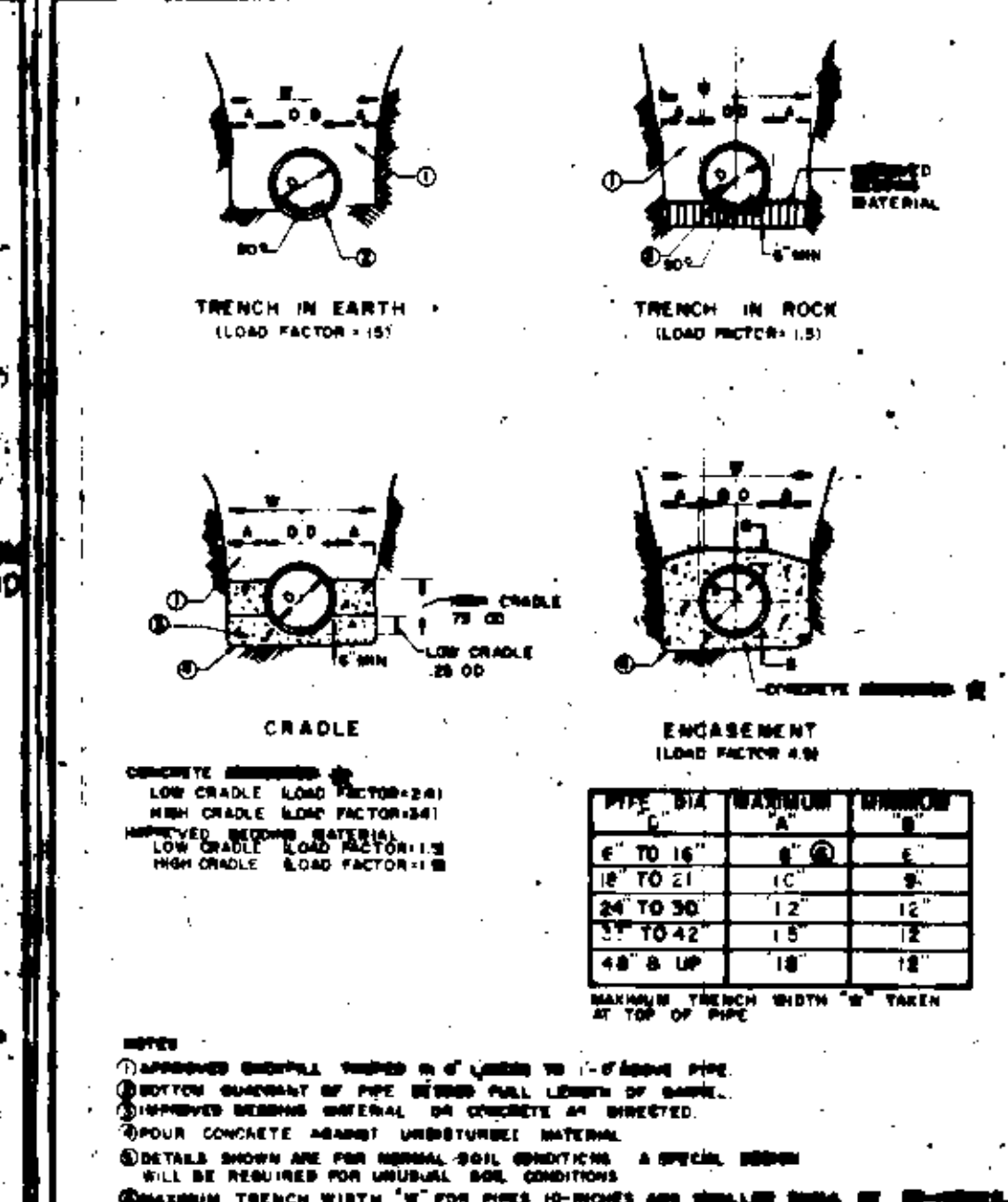
APPROVED *[Signature]*
 DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
MANHOLE FRAME & COVER MHC-2 24\"/>



APPROVED *[Signature]*
 DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
MANHOLE FRAME & COVER MHC-3 36\"/>



APPROVED *[Signature]*
 DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
MANHOLE ADJUSTMENT DETAILS
 DRAWING NUMBER S-5



APPROVED *[Signature]*
 DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
PIPE TRENCH AND BEDDING DETAILS
 DRAWING NUMBER E-1

PIPE SIZE	EXTRA MIN. BACKFILL	EXTRA MIN. COVER	MINIMUM COVER	MINIMUM COVER	MINIMUM COVER	MINIMUM COVER
4"	12"	12"	12"	12"	12"	12"
6"	12"	12"	12"	12"	12"	12"
8"	12"	12"	12"	12"	12"	12"
10"	12"	12"	12"	12"	12"	12"
12"	12"	12"	12"	12"	12"	12"
15"	12"	12"	12"	12"	12"	12"
18"	12"	12"	12"	12"	12"	12"
24"	12"	12"	12"	12"	12"	12"
30"	12"	12"	12"	12"	12"	12"
36"	12"	12"	12"	12"	12"	12"
42"	12"	12"	12"	12"	12"	12"
48"	12"	12"	12"	12"	12"	12"
54"	12"	12"	12"	12"	12"	12"
60"	12"	12"	12"	12"	12"	12"

APPROVED *[Signature]*
 DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
MINIMUM ALLOWABLE BACKFILL FOR VARIOUS TYPES OF PIPE
 DRAWING NUMBER E-2

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

REVISED	FHWA REGION	STATE	FEDERAL AID ROUTE	PROJECT	ROUTE	STATE PROJECT	SHEET NO
	2	VA			88	0006-000-102 C-508	21-28

* ALL CONCRETE SHALL BE CLASS A-3

PIPE SIZE	1/2" BEND	1/4" BEND	1/8" BEND	3/4" BEND
6"	3"	2"	1 1/2"	2"
8"	4"	3"	2"	3"
10"	5"	4"	3"	4"
12"	6"	5"	4"	5"
14"	7"	6"	5"	6"
16"	8"	7"	6"	7"
18"	9"	8"	7"	8"
20"	10"	9"	8"	9"
24"	12"	11"	10"	11"
30"	15"	14"	13"	14"
36"	18"	17"	16"	17"
42"	21"	20"	19"	20"
48"	24"	23"	22"	23"

ALL BENDING SURFACES FOR CONCRETE BLOCKING SHALL BE UNDISTURBED EARTH WITH A BEARING CAPACITY VALUE OF 2000 P.S.F. THE MINIMUM THICKNESS OF UNDISTURBED EARTH BEHIND THE BLOCKING SHALL BE 3 FEET. BLOCKING SHOWN IS FOR MAXIMUM STATIC PRESSURE OF 80 P.S.F. PLUS WATER HAMMER ALLOWANCE. SPECIAL BLOCKING SHALL BE DESIGNED FOR CONDITIONS OTHER THAN THOSE INDICATED.

ALBEMARLE COUNTY DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
 APPROVED: [Signature] CHIEF
CONCRETE BLOCKING FOR HORIZONTAL BENDS
 DRAWING NUMBER: W-1

PIPE SIZE	A	B	C
6"	11"	11"	12"
8"	13"	13"	14"
10"	15"	15"	16"
12"	17"	17"	18"
14"	19"	19"	20"
16"	21"	21"	22"
18"	23"	23"	24"
20"	25"	25"	26"
24"	29"	29"	30"
30"	35"	35"	36"

ALL BENDING SURFACES FOR CONCRETE BLOCKING SHALL BE UNDISTURBED EARTH WITH A BEARING CAPACITY VALUE OF 2000 P.S.F. THE MINIMUM THICKNESS OF UNDISTURBED EARTH BEHIND THE BLOCKING SHALL BE 3 FEET. BLOCKING SHOWN IS FOR MAXIMUM STATIC PRESSURE OF 80 P.S.F. PLUS WATER HAMMER ALLOWANCE. SPECIAL BLOCKING SHALL BE DESIGNED FOR CONDITIONS OTHER THAN THOSE INDICATED.

ALBEMARLE COUNTY DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
 APPROVED: [Signature] CHIEF
CONCRETE BLOCKING FOR TEES, CAPS & PLUGS
 DRAWING NUMBER: W-2

PIPE SIZE	1/2" BEND	1/4" BEND	1/8" BEND
6"	3"	2"	1 1/2"
8"	4"	3"	2"
10"	5"	4"	3"
12"	6"	5"	4"
14"	7"	6"	5"
16"	8"	7"	6"
18"	9"	8"	7"
20"	10"	9"	8"
24"	12"	11"	10"
30"	15"	14"	13"
36"	18"	17"	16"
42"	21"	20"	19"
48"	24"	23"	22"

ALL BENDING SURFACES FOR CONCRETE BLOCKING SHALL BE UNDISTURBED EARTH WITH A BEARING CAPACITY VALUE OF 2000 P.S.F. THE MINIMUM THICKNESS OF UNDISTURBED EARTH BEHIND THE BLOCKING SHALL BE 3 FEET. BLOCKING SHOWN IS FOR MAXIMUM STATIC PRESSURE OF 80 P.S.F. PLUS WATER HAMMER ALLOWANCE. SPECIAL BLOCKING SHALL BE DESIGNED FOR CONDITIONS OTHER THAN THOSE INDICATED.

ALBEMARLE COUNTY DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
 APPROVED: [Signature] CHIEF
CONCRETE BLOCKING FOR LOWER VERTICAL BENDS
 DRAWING NUMBER: W-3

PIPE SIZE	1/2" BEND					1/4" BEND				
	A	B	C	D	E	A	B	C	D	E
6"	1-1/2"	2-1/2"	2-1/2"	1-1/2"	2-1/2"	1-1/2"	2-1/2"	2-1/2"	1-1/2"	2-1/2"
8"	2-1/2"	3-1/2"	3-1/2"	2-1/2"	3-1/2"	2-1/2"	3-1/2"	3-1/2"	2-1/2"	3-1/2"
10"	3-1/2"	4-1/2"	4-1/2"	3-1/2"	4-1/2"	3-1/2"	4-1/2"	4-1/2"	3-1/2"	4-1/2"
12"	4-1/2"	5-1/2"	5-1/2"	4-1/2"	5-1/2"	4-1/2"	5-1/2"	5-1/2"	4-1/2"	5-1/2"
14"	5-1/2"	6-1/2"	6-1/2"	5-1/2"	6-1/2"	5-1/2"	6-1/2"	6-1/2"	5-1/2"	6-1/2"
16"	6-1/2"	7-1/2"	7-1/2"	6-1/2"	7-1/2"	6-1/2"	7-1/2"	7-1/2"	6-1/2"	7-1/2"
18"	7-1/2"	8-1/2"	8-1/2"	7-1/2"	8-1/2"	7-1/2"	8-1/2"	8-1/2"	7-1/2"	8-1/2"
20"	8-1/2"	9-1/2"	9-1/2"	8-1/2"	9-1/2"	8-1/2"	9-1/2"	9-1/2"	8-1/2"	9-1/2"
24"	10-1/2"	11-1/2"	11-1/2"	10-1/2"	11-1/2"	10-1/2"	11-1/2"	11-1/2"	10-1/2"	11-1/2"
30"	13-1/2"	14-1/2"	14-1/2"	13-1/2"	14-1/2"	13-1/2"	14-1/2"	14-1/2"	13-1/2"	14-1/2"
36"	16-1/2"	17-1/2"	17-1/2"	16-1/2"	17-1/2"	16-1/2"	17-1/2"	17-1/2"	16-1/2"	17-1/2"
42"	19-1/2"	20-1/2"	20-1/2"	19-1/2"	20-1/2"	19-1/2"	20-1/2"	20-1/2"	19-1/2"	20-1/2"
48"	22-1/2"	23-1/2"	23-1/2"	22-1/2"	23-1/2"	22-1/2"	23-1/2"	23-1/2"	22-1/2"	23-1/2"

ALL BENDING SURFACES FOR CONCRETE BLOCKING SHALL BE UNDISTURBED EARTH WITH A BEARING CAPACITY VALUE OF 2000 P.S.F. THE MINIMUM THICKNESS OF UNDISTURBED EARTH BEHIND THE BLOCKING SHALL BE 3 FEET. BLOCKING SHOWN IS FOR MAXIMUM STATIC PRESSURE OF 80 P.S.F. PLUS WATER HAMMER ALLOWANCE. SPECIAL BLOCKING SHALL BE DESIGNED FOR CONDITIONS OTHER THAN THOSE INDICATED.

ALBEMARLE COUNTY DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
 APPROVED: [Signature] CHIEF
CONCRETE BLOCKING FOR UPPER VERTICAL BENDS
 DRAWING NUMBER: W-4

1. CONCRETE SHALL BE CLASS A-3
 2. ALL BENDING SURFACES FOR CONCRETE BLOCKING SHALL BE UNDISTURBED EARTH WITH A BEARING CAPACITY VALUE OF 2000 P.S.F. THE MINIMUM THICKNESS OF UNDISTURBED EARTH BEHIND THE BLOCKING SHALL BE 3 FEET. BLOCKING SHOWN IS FOR MAXIMUM STATIC PRESSURE OF 80 P.S.F. PLUS WATER HAMMER ALLOWANCE. SPECIAL BLOCKING SHALL BE DESIGNED FOR CONDITIONS OTHER THAN THOSE INDICATED.

ALBEMARLE COUNTY DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
 APPROVED: [Signature] CHIEF
FIRE HYDRANT SETTING
 DRAWING NUMBER: W-5

NOTE: USE 3/8" BARS FOR 6" & 8" V. USE 1/2" BARS FOR 10" & 12" V. USE 3/4" BARS FOR 14" & 16" V. STRAPPING VALVE TO MAIN SHALL BE SYNCHRONICALLY PLACED.

NOTE: USE 3/8" BARS FOR 6" & 8" V. USE 1/2" BARS FOR 10" & 12" V. USE 3/4" BARS FOR 14" & 16" V. STRAPPING VALVE TO MAIN SHALL BE SYNCHRONICALLY PLACED.

NOTE: USE 3/8" BARS FOR 6" & 8" V. USE 1/2" BARS FOR 10" & 12" V. USE 3/4" BARS FOR 14" & 16" V. STRAPPING VALVE TO MAIN SHALL BE SYNCHRONICALLY PLACED.

ALBEMARLE COUNTY DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
 APPROVED: [Signature] CHIEF
STRAPPING DETAILS
 DRAWING NUMBER: W-6

NOTE: USE 3/8" BARS FOR 6" & 8" V. USE 1/2" BARS FOR 10" & 12" V. USE 3/4" BARS FOR 14" & 16" V. STRAPPING VALVE TO MAIN SHALL BE SYNCHRONICALLY PLACED.

ALBEMARLE COUNTY DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
 APPROVED: [Signature] CHIEF
BLOWOFF FOR DEAD END WATERMAINS
 DRAWING NUMBER: W-7

ALL BENDING SURFACES FOR CONCRETE BLOCKING SHALL BE UNDISTURBED EARTH WITH A BEARING CAPACITY VALUE OF 2000 P.S.F. THE MINIMUM THICKNESS OF UNDISTURBED EARTH BEHIND THE BLOCKING SHALL BE 3 FEET. BLOCKING SHOWN IS FOR MAXIMUM STATIC PRESSURE OF 80 P.S.F. PLUS WATER HAMMER ALLOWANCE. SPECIAL BLOCKING SHALL BE DESIGNED FOR CONDITIONS OTHER THAN THOSE INDICATED.

ALBEMARLE COUNTY DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
 APPROVED: [Signature] CHIEF
CONCRETE BLOCKING FOR TAPPED PLUGS
 DRAWING NUMBER: W-8

NOTE: WATER SERVICE LINE SHALL BE RECONNECTED BY CONTRACTOR IN CONFORMANCE WITH A.R.L. CO. PLUMBING CODE.

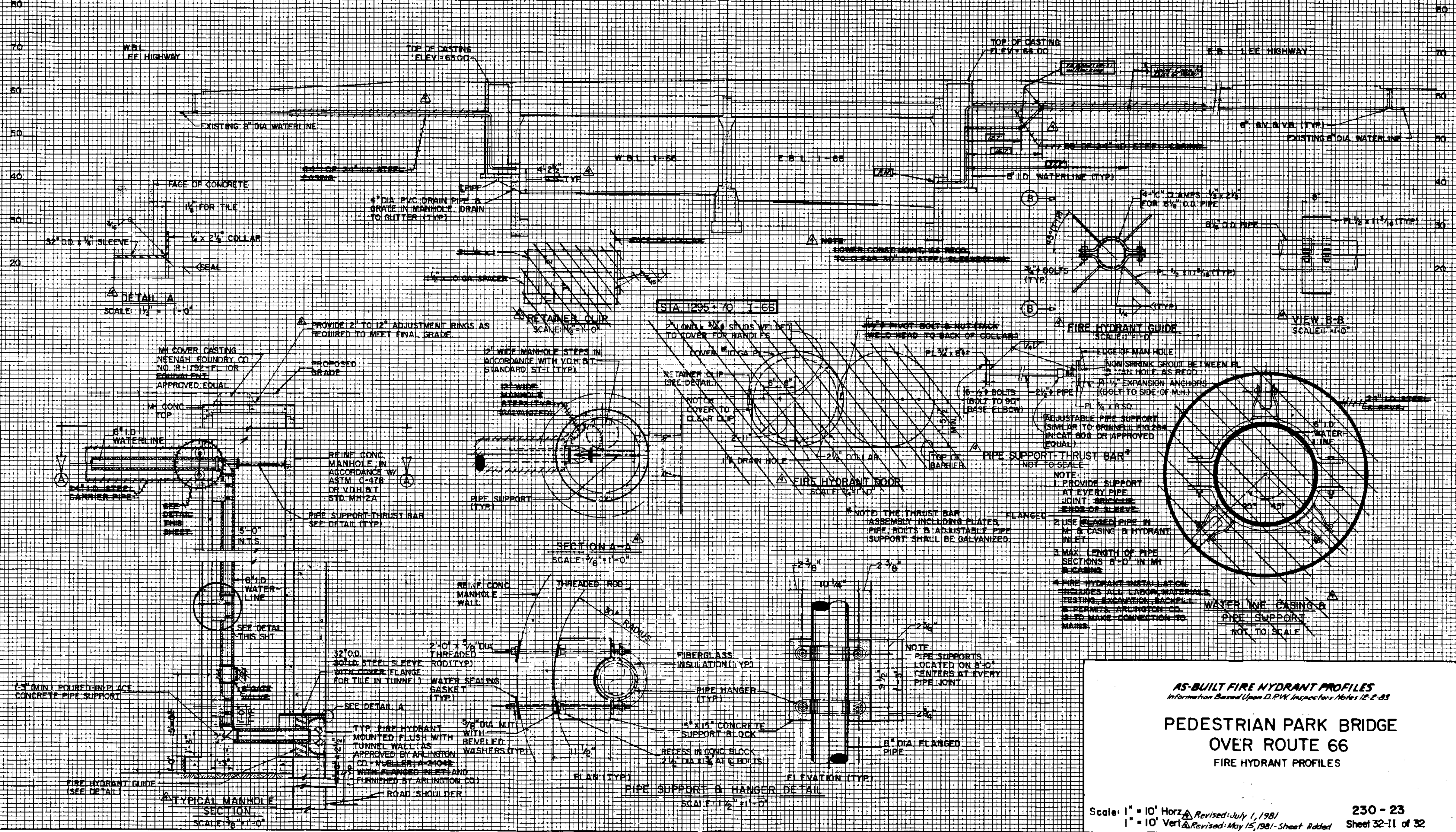
ALBEMARLE COUNTY DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
 APPROVED: [Signature] CHIEF
WATER SERVICE CONNECTION 1 1/2-INCH & SMALLER
 DRAWING NUMBER: W-9

ALL BENDING SURFACES FOR CONCRETE BLOCKING SHALL BE UNDISTURBED EARTH WITH A BEARING CAPACITY VALUE OF 2000 P.S.F. THE MINIMUM THICKNESS OF UNDISTURBED EARTH BEHIND THE BLOCKING SHALL BE 3 FEET. BLOCKING SHOWN IS FOR MAXIMUM STATIC PRESSURE OF 80 P.S.F. PLUS WATER HAMMER ALLOWANCE. SPECIAL BLOCKING SHALL BE DESIGNED FOR CONDITIONS OTHER THAN THOSE INDICATED.

ALBEMARLE COUNTY DEPARTMENT OF UTILITIES WATER & SEWER DIVISION
 APPROVED: [Signature] CHIEF
CONCRETE BLOCKING FOR INSERTING VALVES
 DRAWING NUMBER: W-10

FINAL SURVEY PLOTTED, NOTE BOOK AREAS CHECKED.

ORIGINAL SURVEY PLOTTED, NOTE BOOK AREAS CHECKED.



FIRE HYDRANT GUIDE
SCALE: 1" = 1'-0"

VIEW B-B
SCALE: 1" = 1'-0"

STA. 1295+70 I-66

SECTION A-A
SCALE: 1/8" = 1'-0"

PIPE SUPPORT & HANGER DETAIL
SCALE: 1 1/2" = 1'-0"

TYPICAL MANHOLE SECTION
SCALE: 1/8" = 1'-0"

- NOTE:**
1. PROVIDE SUPPORT AT EVERY PIPE JOINT.
 2. USE FLANGED PIPE IN M. & CASING & HYDRANT INLET.
 3. MAX. LENGTH OF PIPE SECTIONS 8'-0" IN M. & CASING.
 4. FIRE HYDRANT INSTALLATION INCLUDES ALL LABOR, MATERIALS, TESTING, EXCAVATION, BACKFILL & PERMITS. ARLINGTON CO. IS TO MAKE CONNECTION TO MAINS.

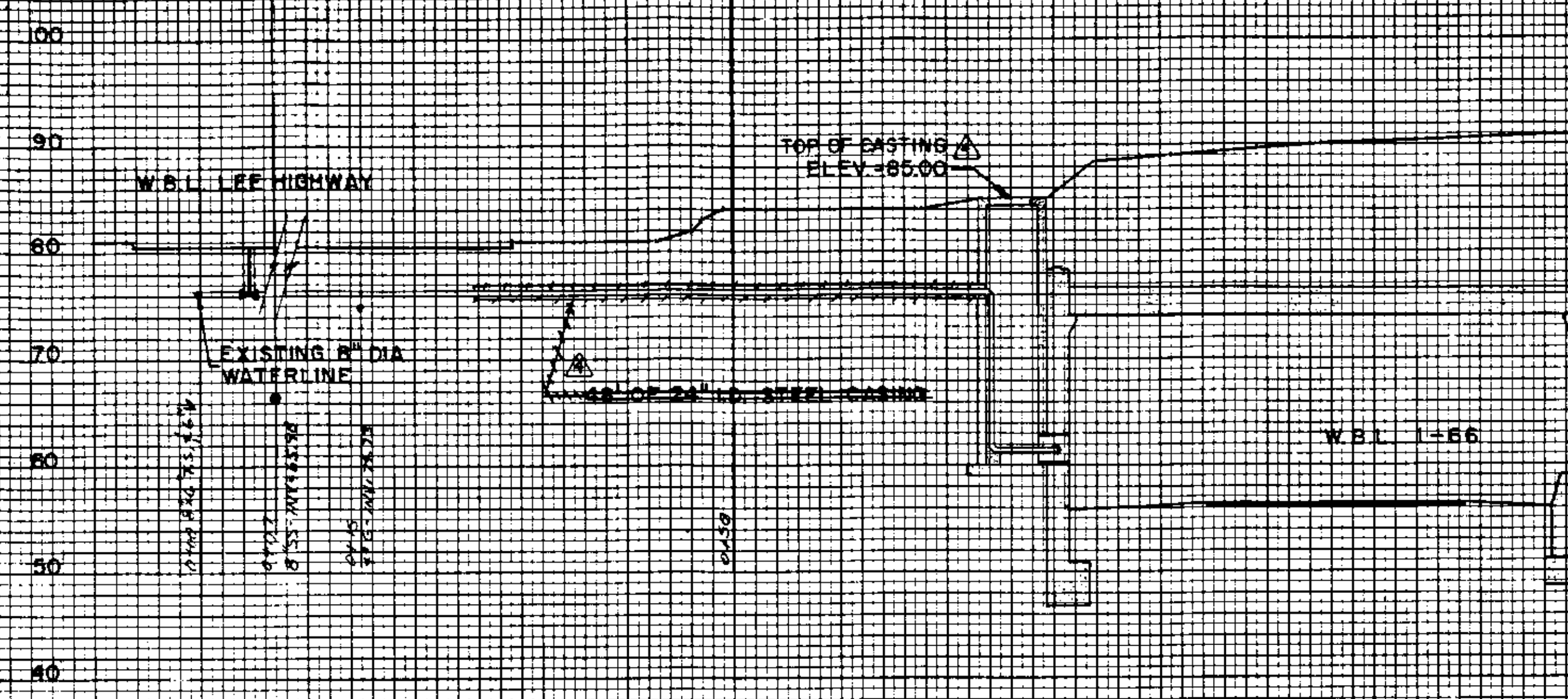
AS-BUILT FIRE HYDRANT PROFILES
Information Based Upon D.P.W. Inspectors Notes 12-2-83

**PEDESTRIAN PARK BRIDGE
OVER ROUTE 66
FIRE HYDRANT PROFILES**

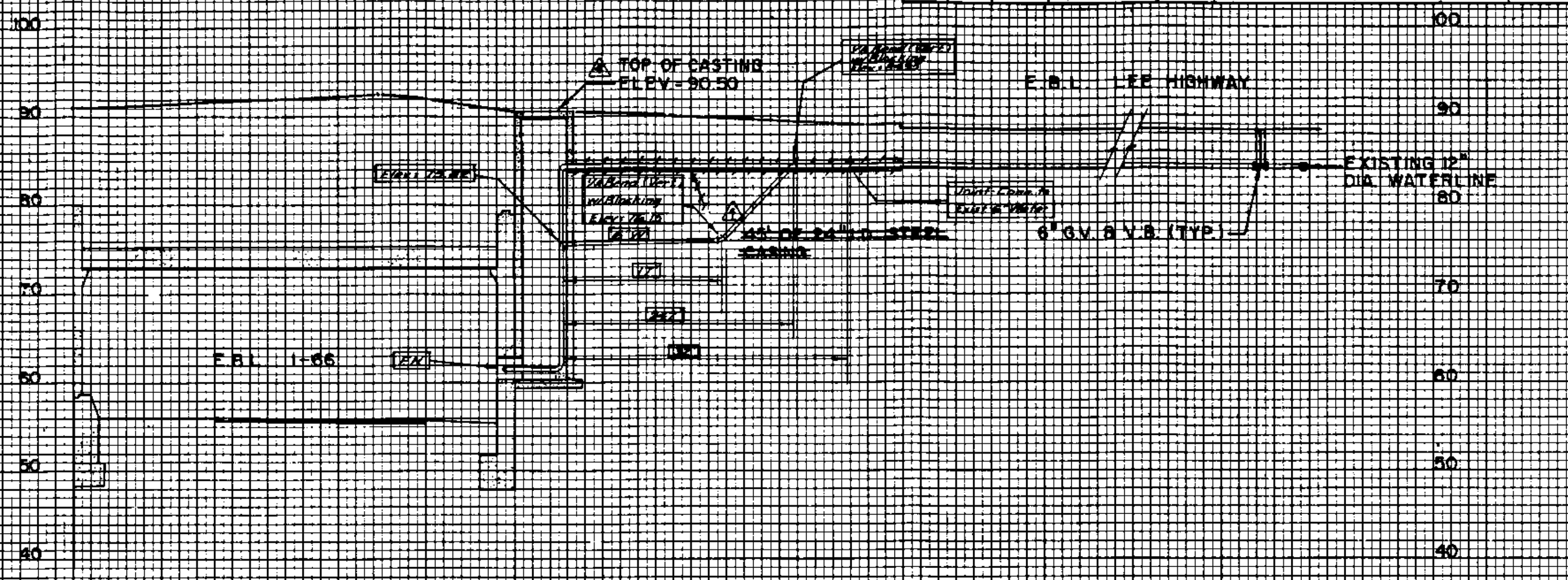
FWSA REGION	STATE	FEDERAL AID		STATE	SHEET NO.
		ROUTE	PROJECT		
3	VA.			66	0066-000-102,8886

FINAL SURVEY PLOTTED BY DATE

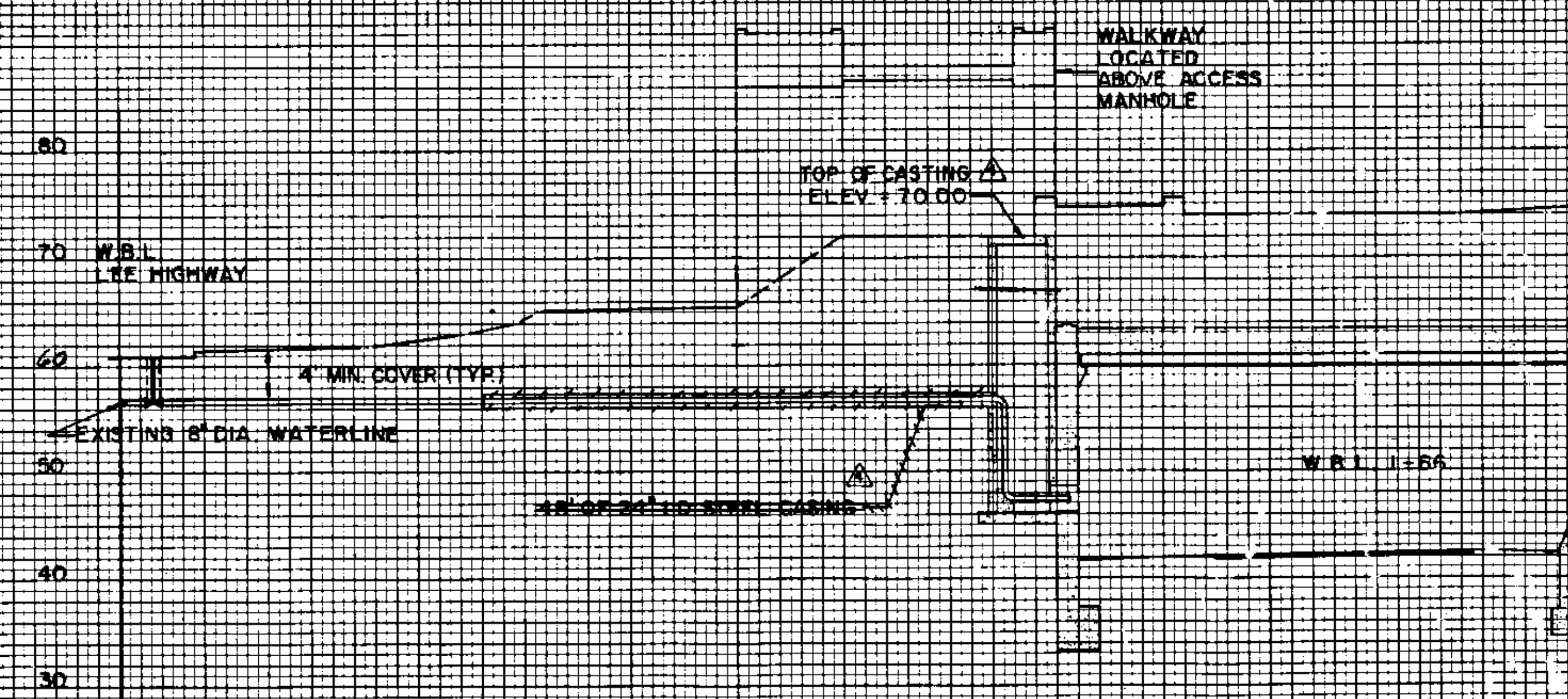
ORIGINAL SURVEY PLOTTED BY DATE



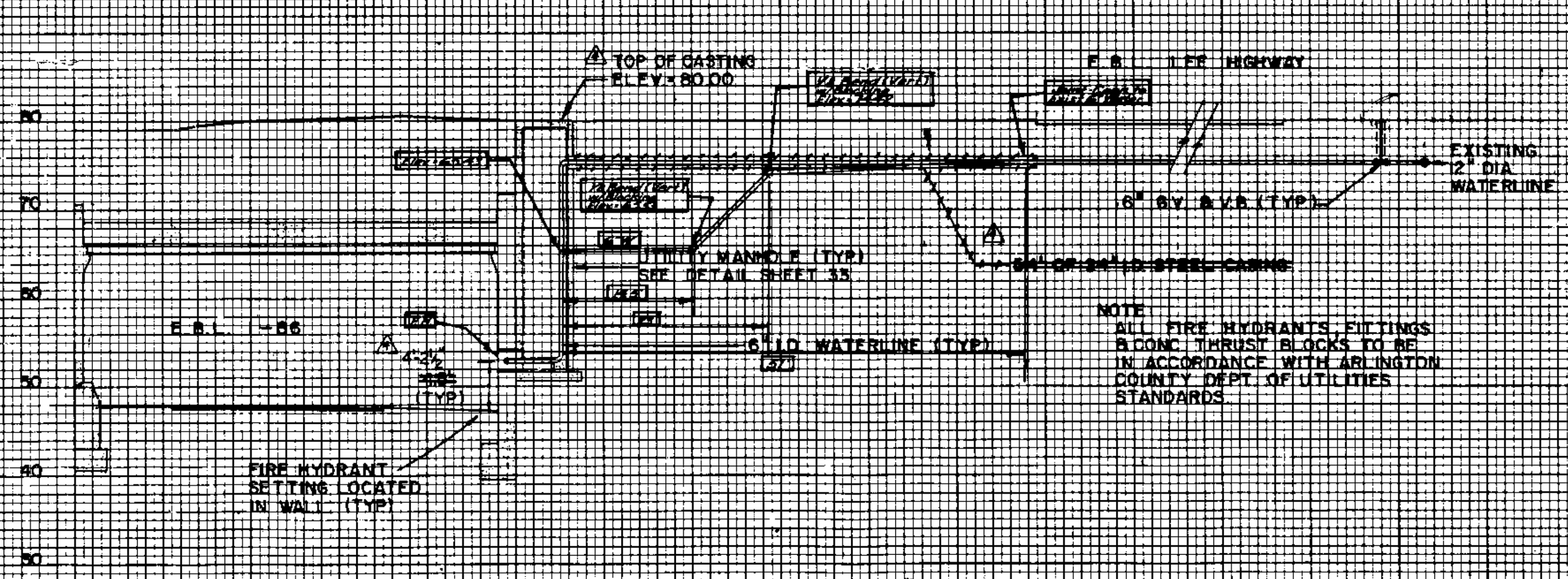
STA 1287+00 -66 W.B.L.



STA 1287+15 -66 F.B.L.



STA 1291+35 -66 W.B.L.



STA 1289+23 -66 F.B.L.

NOTE
ALL FIRE HYDRANTS, FITTINGS
& CONC. THRUST BLOCKS TO BE
IN ACCORDANCE WITH ARLINGTON
COUNTY DEPT. OF UTILITIES
STANDARDS

AS-BUILT FIRE HYDRANT PROFILES
Information Based Upon D.P.W. Inspectors Notes 12-2-83
**PEDESTRIAN PARK BRIDGE
OVER ROUTE 66
FIRE HYDRANT PROFILES**

Scale: 1" = 10' Horz
1" = 10' Vert

Revised: July 1, 1981
Revised: May 15, 1981 - Sheet Added
230-23
Sheet 32-HH of 32

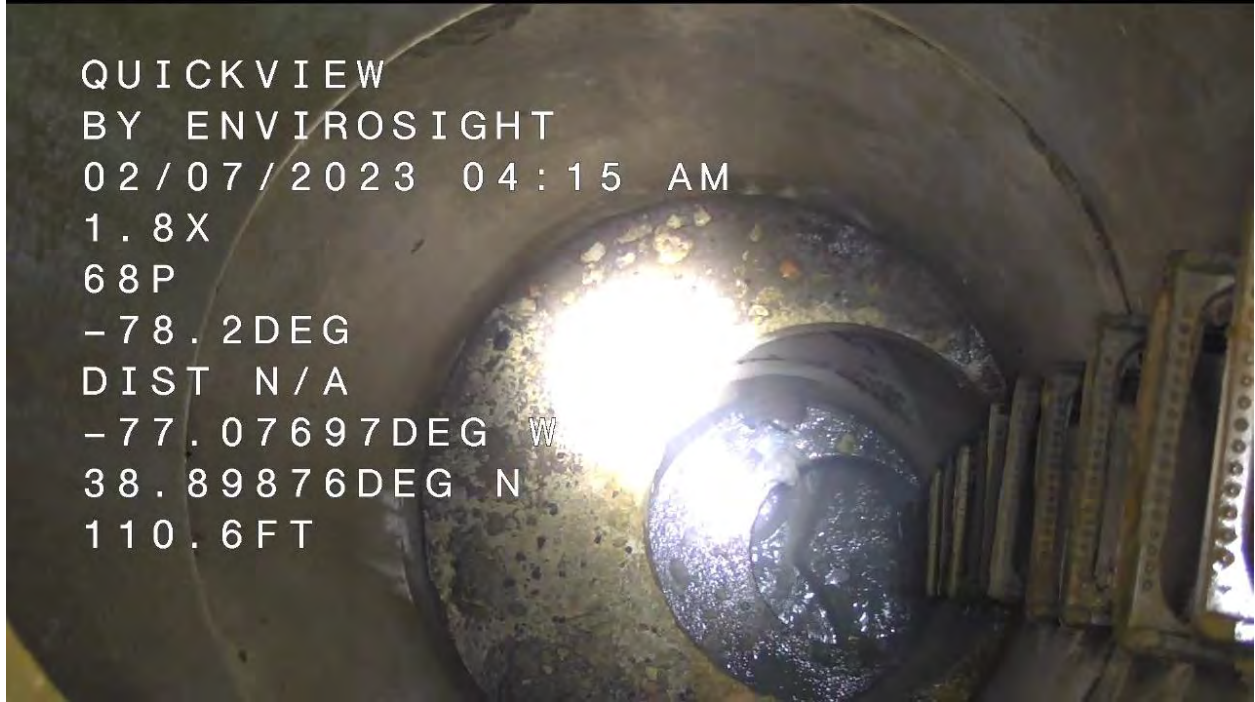


QUICKVIEW
BY ENVIROSIGHT
02/07/2023 03:53 AM
1.0X
21P
-7.9DEG
DIST N/A
-77.07745DEG W
38.89861DEG N
111.2FT



QUICKVIEW
BY ENVIROSIGHT
02/07/2023 04:14 AM
1.0X
68P
-77.5DEG
DIST N/A
-77.07697DEG W
38.89879DEG N
111.0FT





QUICKVIEW
BY ENVIROSIGHT
02/07/2023 04:15 AM
1.8X
68P
-78.2DEG
DIST N/A
-77.07697DEG W
38.89876DEG N
110.6FT



QUICKVIEW
BY ENVIROSIGHT
02/07/2023 04:15 AM
3.7X
68P
-80.4DEG
DIST N/A
-77.07697DEG W
38.89875DEG N
109.8FT



QUICKVIEW
BY ENVIROSIGHT
02/07/2023 04:15 AM
3.7X
68P
-83.9DEG
DIST N/A
-77.07697DEG W
38.89876DEG N
109.8FT

This image shows an underwater camera view looking down a pipe. The pipe's interior is dark and wet, with a yellow marker or object visible in the center. The camera's field of view is partially obscured by the pipe's structure on the right side.



QUICKVIEW
BY ENVIROSIGHT
02/07/2023 04:15 AM
5.1X
68P
-84.0DEG
DIST N/A
-77.07700DEG W
38.89876DEG N
110.0FT

This image shows an underwater camera view looking down a pipe, similar to the first image. The pipe's interior is dark and wet, with a yellow marker or object visible in the center. The camera's field of view is partially obscured by the pipe's structure on the right side.