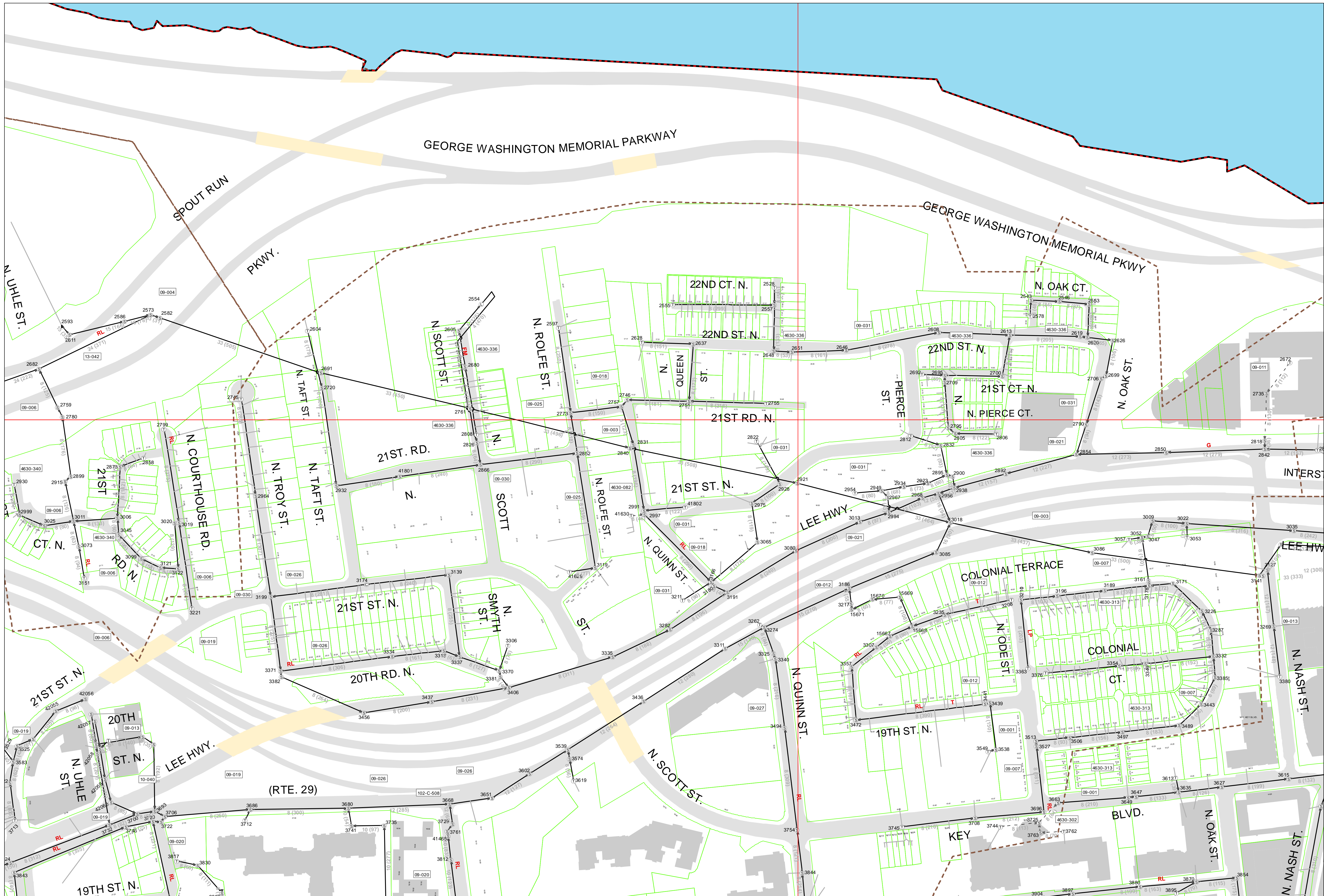
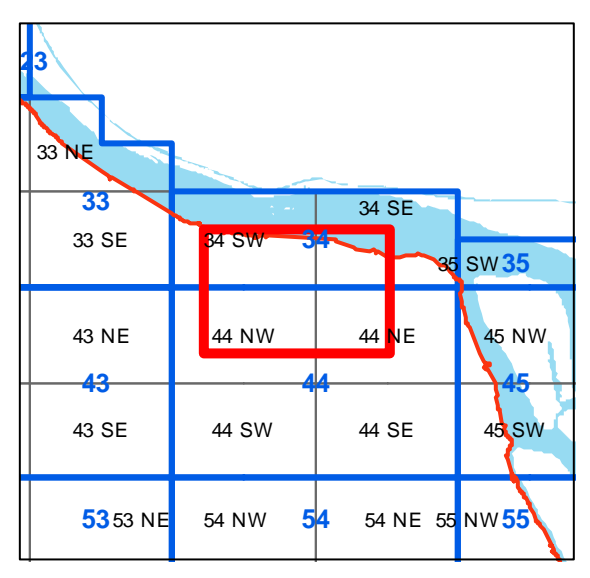
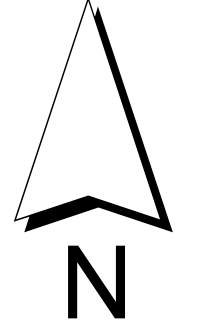


ATTACHMENT I – Historic Design Plans



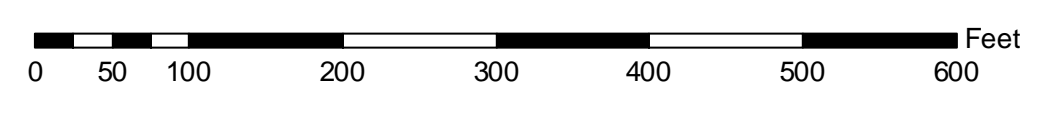
- Legend**
- Sewer Junctions**
- STANDARD MANHOLE
 - CROWN MANHOLE
 - TERMINAL MANHOLE
 - STUB LINE DEAD END NO MANHOLE
 - GREASE TRAP
 - REDUCER
 - LAMP HOLE
 - TEE JUNCTION NO MANHOLE
 - METERING STATION
 - CHAMBER (JUNCTION BOX) MANHOLE
 - LIFT STATION
 - NO MANHOLE DOES NOT EXIST
 - AIR VALVE/FLUSHING 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.

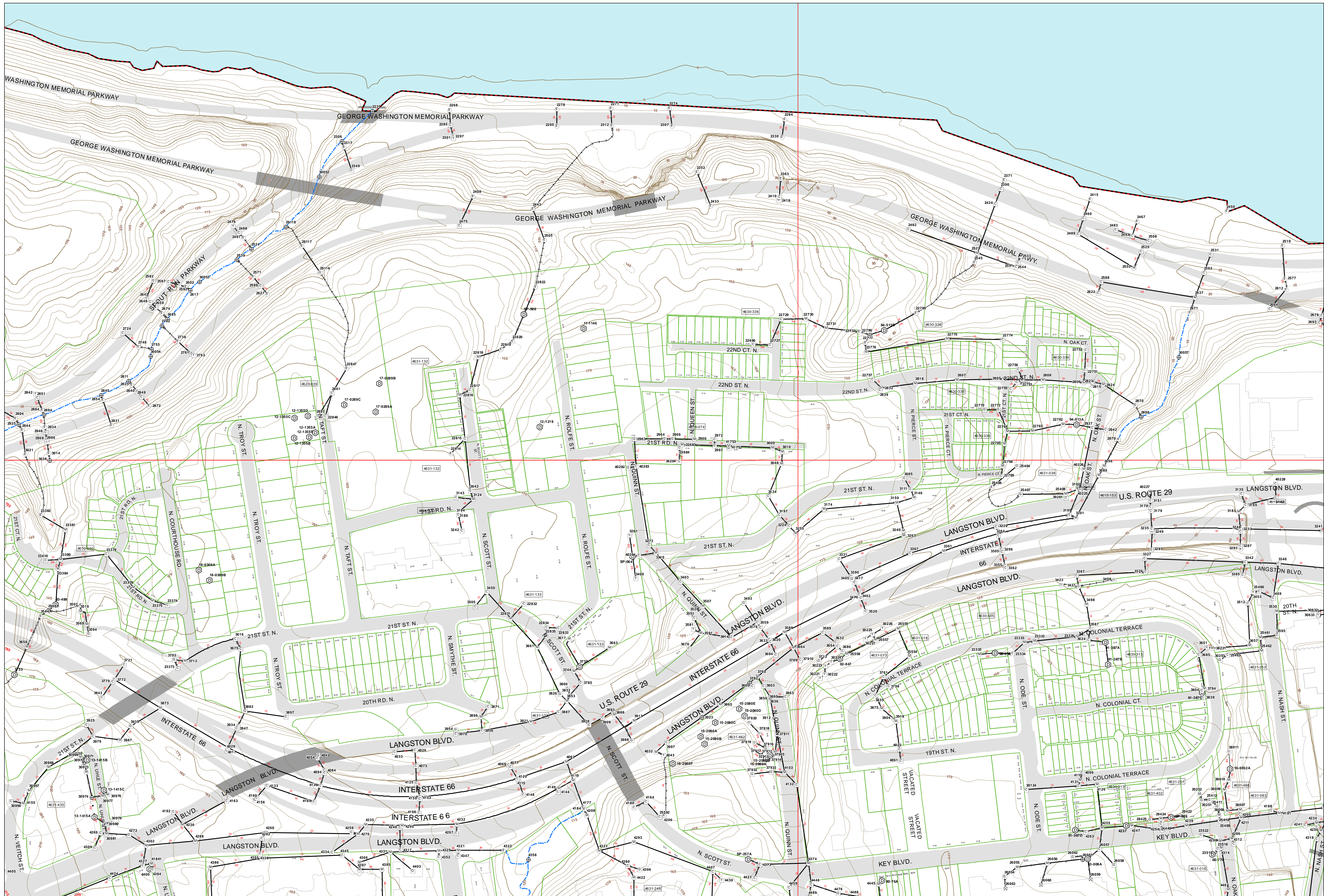
Locations of all existing sewer mains, and appurtenances as shown are approximate. The Department of Environmental Services does not guarantee that the information shown is complete or accurate. Questions About these maps should be directed to the Water, Sewer Engineering Section (703-228-3677).

**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 5x5 grid map showing the location of the main map area within the county. The grid cells are labeled with coordinates: 33 NE, 33 SE, 43 NE, 43 SE, 53 NE, 53 SE. The main map area is highlighted in red, covering the intersection of 44 NE and 44 SE.

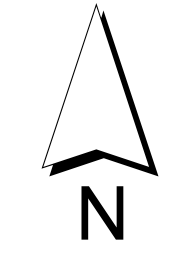
NOTE: All attributes on this map are provided by Water-Sewer Streets via the CASSWORKS Database. Planimetric features updated from 2011 Orthophotography. Data is intended for reference purposes ONLY. NOT a legal document.

Print Date: 2/2/2023

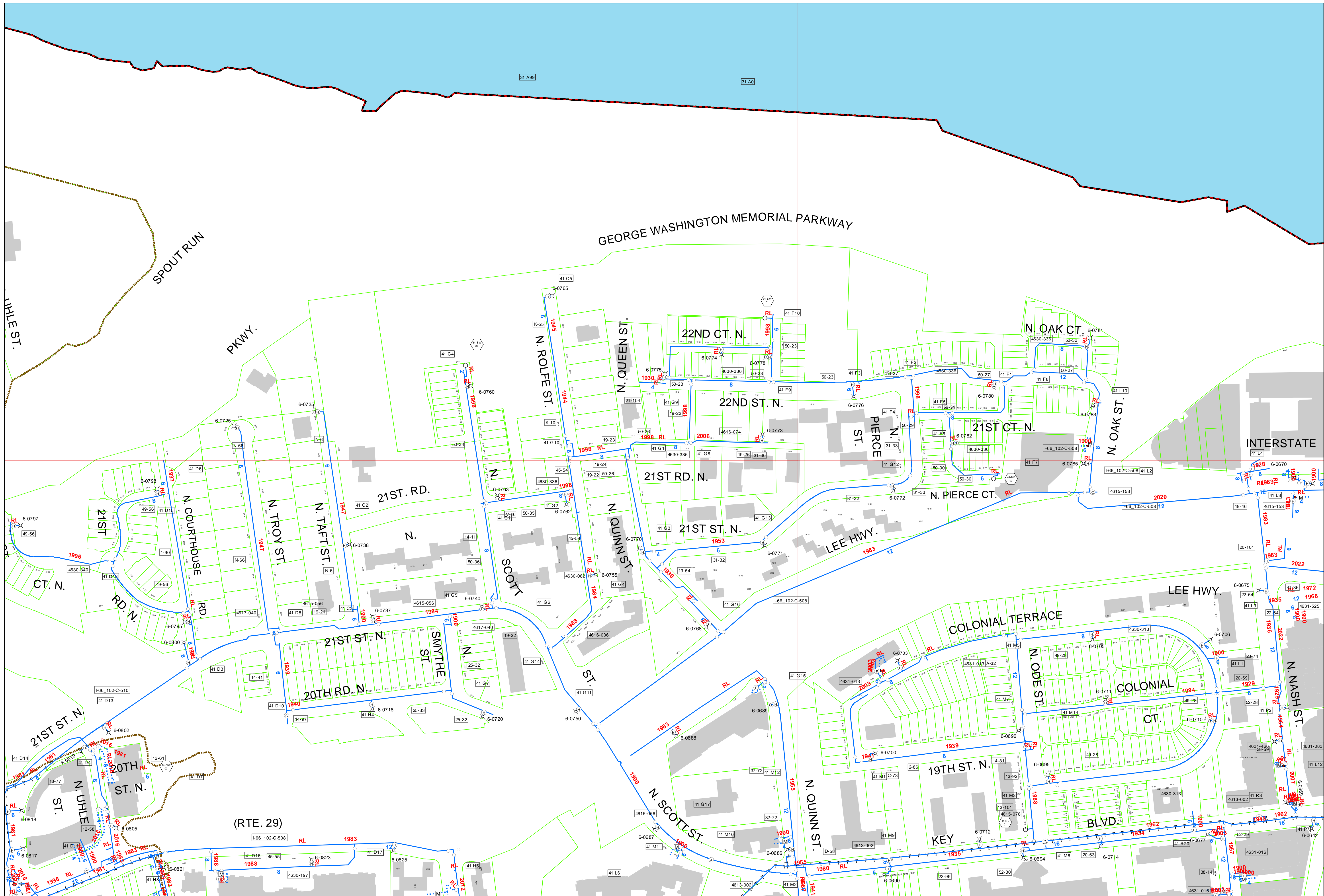
Pursuant to Section 54.1-402 of the Code of Virginia, any determination of topography or contours, or any depiction of physical improvements, property lines or boundaries is for general information only and shall not be used for the design, modification, or construction of improvements to real property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

Locations of all existing 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

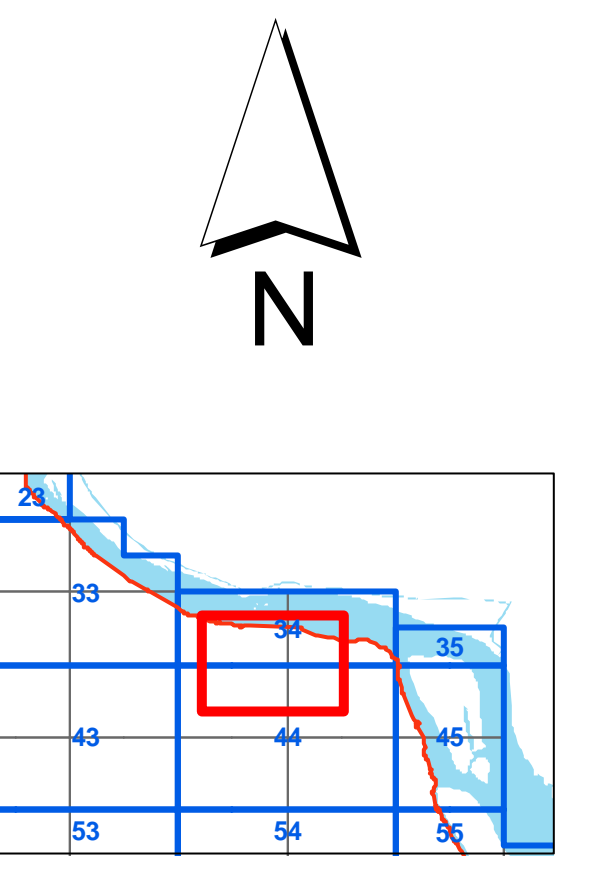
- No Data
- ⊙ Air Release Valve
- Blowoff Valve
- ⊙ Butterfly Valve
- ⊙ Bypass Valve
- ⊙ Division Valve
- ⊙ Fire Hydrant
- ⊙ Fireline Valve
- ⊙ Hydrant Valve
- ⊙ Pumpout Manhole
- ⊙ Pressure Regulating Valve
- ▲ Reducer
- Valve
- ⊙ Vault
- ⊙ Water Meter
- ⊙ Valve Kept Closed
- ★ Fire Hydrants (Private/Other 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 Rained 2007 Main Installed

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



Water Map

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 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**



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| 40 | MOT PHASE 5 AND PHASE 5A |
| 40A | MOT PHASE 5B |
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DESIGNED BY: PRABIN BANEPALI (703-228-7586) SURVEYED BY: ARLINGTON COUNTY GOV., DES. DATE: MAY, 2014
PROJECT MANAGER: VALERIE MOSLEY (703-228-4938) SURVEYED BY: ARLINGTON COUNTY GOV., DES. DATE: APRIL, 2013



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

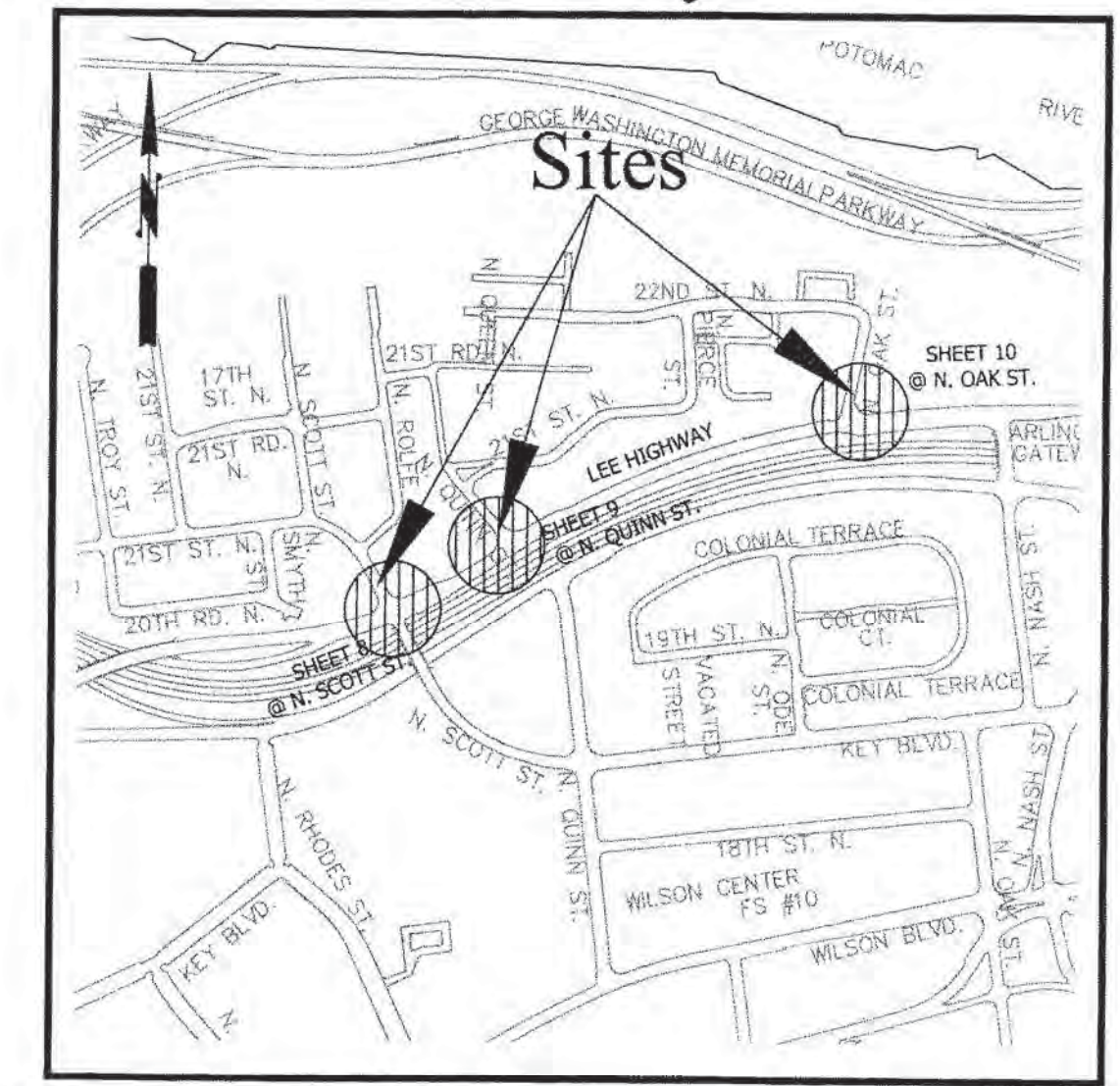
Construction Drawings For: Custis Trail-Safety Improvements

From N.Oak Street To N. Scott Street

Project Number: 313.43520.B06K.0319.0000

UPC NO: 100634

Location Map Scale: 1"=600' Vicinity



"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.

| 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

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

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: 05/24/16
TITLE OF POSITION

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION

DATE: 05/24/16
DISTRICT PLANNING AND INVESTMENT MANAGER

DATE: 05/24/16
DISTRICT PROJECT DEVELOPMENT ENGINEER

APPROVED FOR RIGHT OF WAY ACQUISITION

DATE: 05/24/16
DISTRICT ADMINISTRATOR

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION

DATE: 05/24/16
DISTRICT PLANNING AND INVESTMENT MANAGER

DATE: 05/24/16
DISTRICT PROJECT DEVELOPMENT ENGINEER

APPROVED FOR CONSTRUCTION

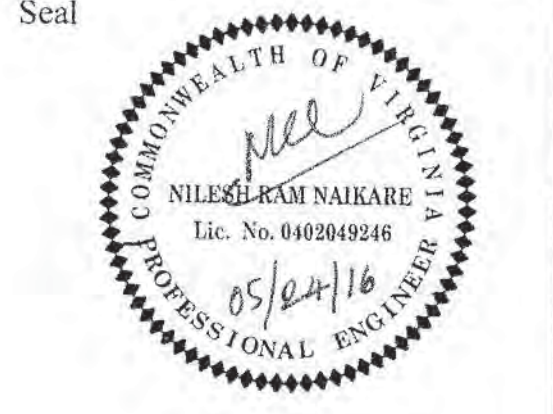
DATE: 05/24/16
DISTRICT ADMINISTRATOR

ALL CONSTRUCTION TO BE PERFORMED WITHIN EXISTING RIGHT OF WAY.



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: 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

Project Table: 05/06/16

Project Name and Location

Custis Trail-Safety Improvements

Cover Sheet

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
Path: O:\Data\B06K\Design\Drawings
Plotted: May 24, 2016
Plotted by: Pbanepali
Scale: As Noted

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.

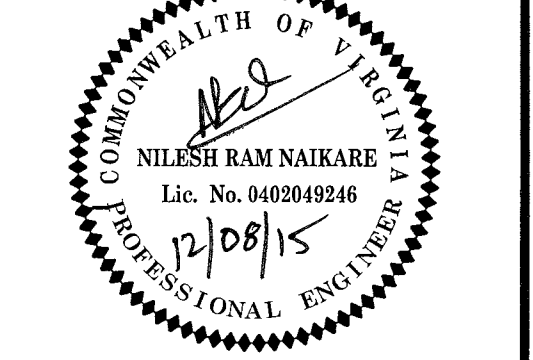


DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
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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 |
|-----------|------|
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| | |

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
Path: Q:\Data\B06K\Design\Drawings
Plotted: October 08, 2015
Plotted by: Pbanepalli

Scale: As Noted

Sheet

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

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

SUBSURFACE UTILITY BY: ARLINGTON COUNTY GOV., DES.

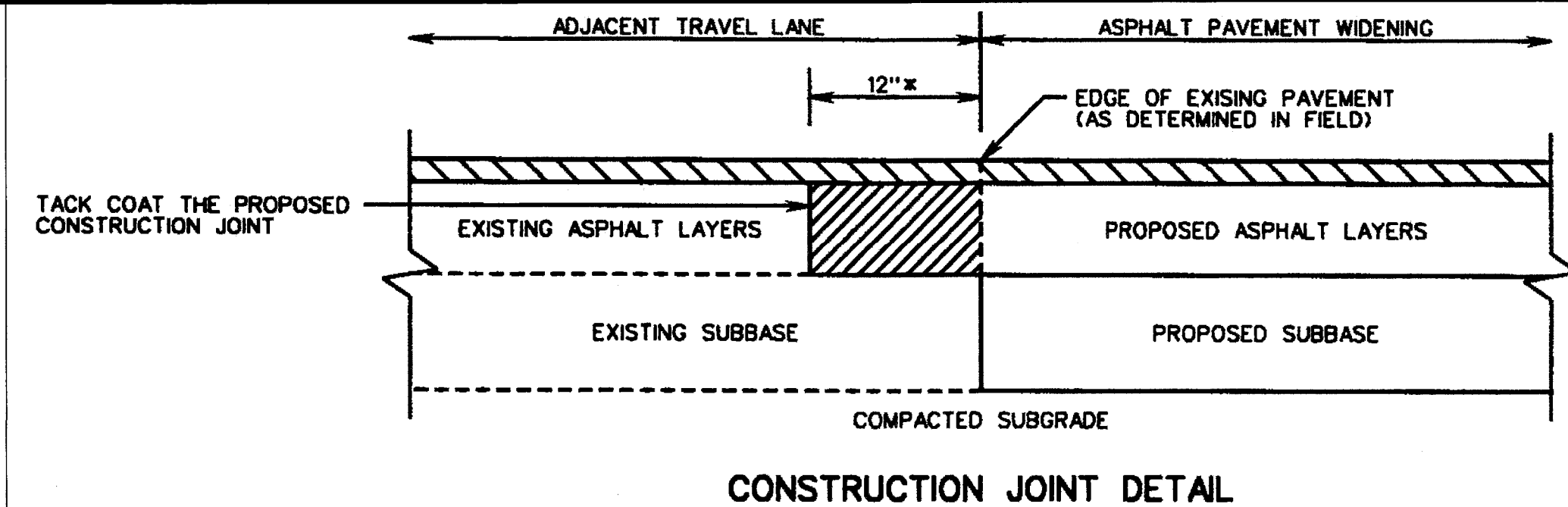
DATE: APRIL, 2013

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

Revision 06/09/2011

| | Existing | Proposed |
|-------------------------|---|-------------|
| Easement | --- | --- |
| Asphalt | --- | --- |
| Building | --- | --- |
| Cable TV | --- CATV --- CATV --- CATV --- | --- |
| Center Line | --- | --- |
| Concrete | --- | --- |
| Contours | --- 250 --- | --- 250 --- |
| Curb | --- | --- |
| Electric (Underground) | --- UGE --- UGE --- UGE --- | --- |
| Fence | --- X --- X --- X --- X --- X --- X --- | --- |
| Fiber Optic | --- FO --- FO --- FO --- FO --- | --- |
| Guardrail | --- | --- |
| 2" Gas | --- 2" G --- 2" G --- 2" G --- | --- |
| 3" Gas | --- 3" G --- 3" G --- 3" G --- | --- |
| 6" Gas | --- 6" G --- 6" G --- 6" G --- | --- |
| 8" Gas | --- 8" G --- 8" G --- 8" G --- | --- |
| Gas | --- GAS --- GAS --- GAS --- | --- |
| Limits Of Clearing | --- | --- |
| Overhead Wires | --- | --- |
| Property Line | --- | --- |
| 8" Sanitary | --- 8" S --- 8" S --- 8" S --- | --- |
| 12" Sanitary | --- 12" S --- 12" S --- 12" S --- | --- |
| Sanitary Sewer | --- | --- |
| Sanitary House Con. | --- SHC --- SHC --- SHC --- | --- |
| Sidewalk | --- | --- |
| Storm (size noted) | --- | --- |
| Telephone (Underground) | --- UGT --- UGT --- UGT --- | --- |
| Wall | --- | --- |
| 6" Water | --- 6" W --- 6" W --- 6" W --- | --- |
| 8" Water | --- 8" W --- 8" W --- 8" W --- | --- |
| 12" Water | --- 12" W --- 12" W --- 12" W --- | --- |
| Water | --- W --- W --- W --- | --- |
| Water House Con. | --- WHC --- WHC --- WHC --- | --- |
| Lane Marking | --- | --- |
| Tree Line | --- | --- |
| PVC (Street Lights) | --- | --- |

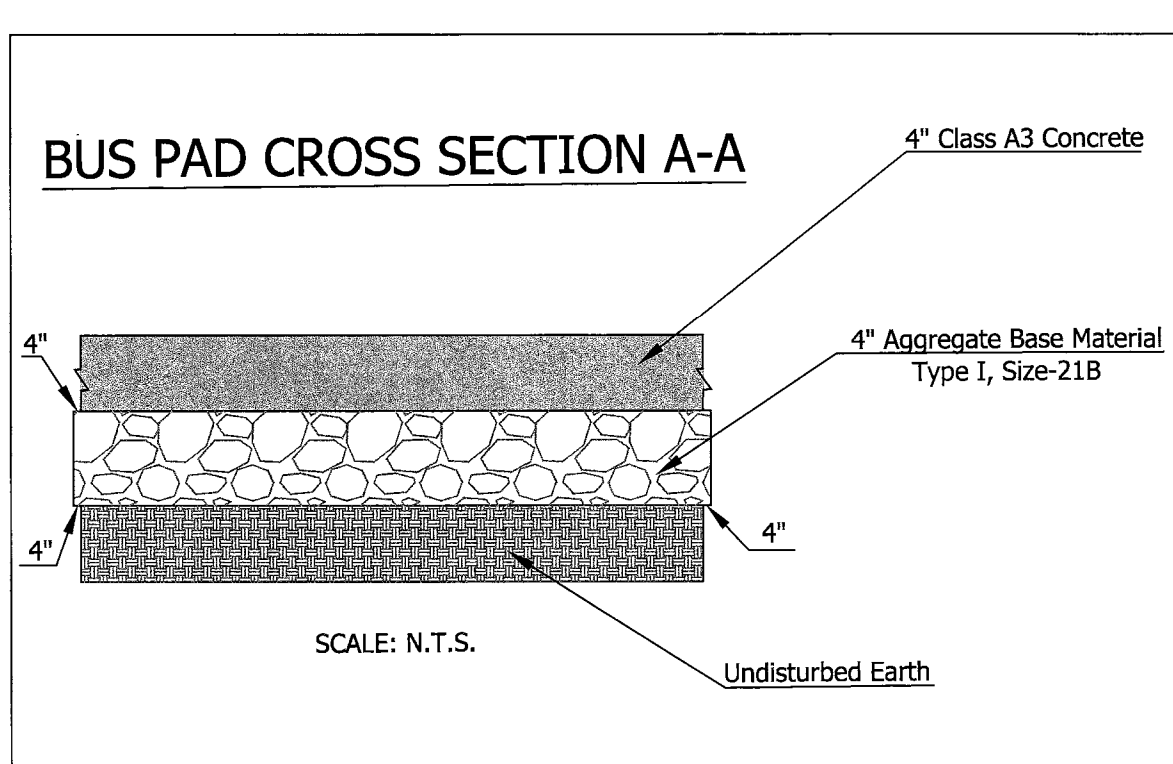
| | | | |
|---|---|-------------------------------------|---|
| Storm Structure - Proposed | ⊗ | Bollard - Existing | ⊙ |
| Storm Manhole Cover - Existing | ⊙ | Mailbox - Existing | ⊗ |
| Storm Structure - Existing | ⊗ | Parking Meter - Existing | ⊗ |
| Sanitary Manhole Cover - Proposed | ● | Sign - Existing | ⊖ |
| Sanitary Structure - Proposed | ⊗ | Sign - Proposed | ⊖ |
| Manhole Cover Existing | ⊙ | Bus Sign - Existing | ⊖ |
| Sanitary Structure - Existing | ⊗ | Bus Sign - Proposed | ⊖ |
| Fire Hydrant - Proposed | ⊕ | Traffic Mast Arm Pole - Existing | ⊖ |
| Reducer - Proposed | ⊕ | Traffic Mast Arm Pole - Proposed | ⊖ |
| Gate Valve - Proposed | ⊕ | Traffic Pedestrian Pole - Existing | ⊖ |
| Blowoff Valve - Proposed | ⊕ | Traffic Pedestrian Pole - Proposed | ⊖ |
| Crossing Connector - Proposed | ⊕ | Traffic Control Box - Existing | ⊖ |
| Tee Connector - Proposed | ⊕ | Traffic Control Box - Proposed | ⊖ |
| 11 1/4" Bend - Proposed | ⊕ | Traffic Electrical Box - Existing | ⊖ |
| 22 1/2" Bend - Proposed | ⊕ | Traffic Electrical Box - Existing | ⊖ |
| 45° Bend - Proposed | ⊕ | Traffic Junction Box - Existing | ⊖ |
| 90° Bend - Proposed | ⊕ | Traffic Junction Box - Proposed | ⊖ |
| Water Meter - Proposed | ⊕ | Traffic Service Meter - Existing | ⊖ |
| Water Cap - Proposed | ⊕ | Traffic Service Meter - Proposed | ⊖ |
| Water Valve - Existing | ⊕ | Construction Notes | ⊕ |
| Fire Hydrant - Existing | ⊕ | Benchmark | ⊕ |
| Water Manhole Cover - Existing | ⊕ | Monument (GPS) | ⊕ |
| Water Meter - Existing | ⊕ | Monument | ⊕ |
| Siamese Connection / Standpipe - Existing | ⊕ | Iron Rod Found | ⊕ |
| CableTV Pedestal - Existing | ⊕ | Iron Rod Set | ⊕ |
| Gas Line Marker - Existing | ⊕ | Iron Pipe Found | ⊕ |
| Electrical Box - Existing | ⊕ | Iron Pipe Set | ⊕ |
| Telephone Pedestal - Existing | ⊕ | Rebar Rod Found | ⊕ |
| Cobrahead Light - Existing | ⊕ | Rebar Rod Set | ⊕ |
| Cobrahead Light - Proposed | ⊕ | P.K. Nail Found | ⊕ |
| Cariyle Light - Proposed | ⊕ | P.K. Nail Set | ⊕ |
| Cariyle Light - Existing | ⊕ | Traverse | ⊕ |
| Ground Light - Existing | ⊕ | North Arrow | ⊕ |
| Light Pole - Existing | ⊕ | Coniferous Tree - Existing | ⊕ |
| Light Pole - Proposed | ⊕ | Deciduous Tree - Existing | ⊕ |
| Utility Pole - Existing | ⊕ | Bush/Hedge/Shrub - Existing | ⊕ |
| Utility Pole - Proposed | ⊕ | Sanitary Structure # - Existing | ⊕ |
| Guy Wire - Existing | ⊕ | Storm Structure # - Existing | ⊕ |
| Utility Cover - Existing | ⊕ | Storm Structure # - Existing - VDOT | ⊕ |
| Gas Valve - Existing | ⊕ | Sanitary Structure # - Proposed | ⊕ |
| Test Hole - Proposed | ⊕ | Storm Structure # - Proposed | ⊕ |
| Test Hole - Existing | ⊕ | Storm Structure # - Proposed - VDOT | ⊕ |



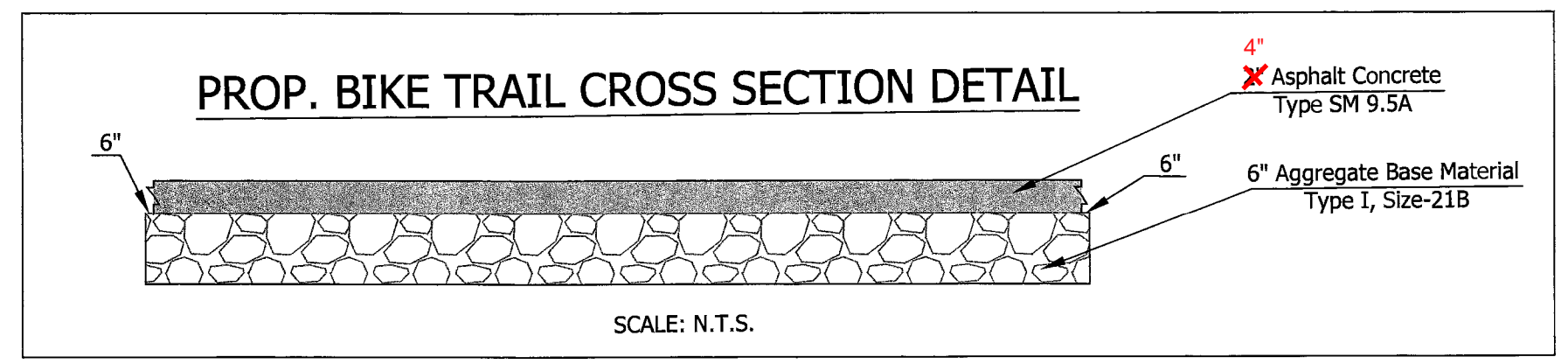
- REMOVE EXISTING ASPHALT LAYERS TO EXISTING SUBBASE AND REPLACE WITH PROPOSED ASPHALT WIDENING LAYERS
- PROPOSED MINIMUM 1 1/2" THICK ASPHALT SURFACE COURSE (SEE NOTE 5)
- MINIMUM 12 INCHES, OR GREATER AS NECESSARY TO ABUT THE FULL THICKNESS OF EXISTING ASPHALT LAYERS AS DETERMINED BY CORES (SEE NOTE 3)

- NOTES:**
- ASPHALT PAVEMENT WIDENING SHALL HAVE A PAVEMENT DESIGN IN ACCORDANCE WITH CURRENT VDOT PROCEDURES AND BE APPROVED BY THE ENGINEER.
 - THE PAVEMENT DESIGN FOR ASPHALT PAVEMENT WIDENING SHALL MEET OR EXCEED THE DEPTHS AND TYPES OF THE LAYERS OF EXISTING PAVEMENT. SUBSURFACE DRAINAGE OF THE EXISTING AND PROPOSED PAVEMENT SHALL BE ADDRESSED IN THE PAVEMENT DESIGN.
 - A MINIMUM OF THREE CORES SHALL BE TAKEN ALONG THE CENTER OF THE ADJACENT TRAVEL LANE TO DETERMINE THE TYPE AND THICKNESS OF EXISTING PAVEMENT LAYERS. THESE CORES SHALL BE SPACED NO MORE THAN 500 FEET APART.
 - THE ADJACENT TRAVEL LANE SHALL BE MILLED A MINIMUM DEPTH OF 1 1/2" INCHES AND REPLACED WITH AN ASPHALT SURFACE COURSE TO MATCH THE PROPOSED PAVEMENT WIDENING SURFACE COURSE, UNLESS WAIVED BY THE ENGINEER.
 - THE ENGINEER MAY REQUIRE THE MILLING DEPTH OF THE EXISTING PAVEMENT TO BE ADJUSTED TO ACHIEVE AN ACCEPTABLE PAVEMENT CROSS-SLOPE AND EFFECTIVE SURFACE DRAINAGE.
 - EXISTING PAVEMENT MARKINGS AND MARKERS WITHIN THE PROJECT LIMITS SHALL BE RESTORED SUBJECT TO THE APPROVAL OF THE ENGINEER.
 - FINAL TRANSVERSE PAVEMENT TIE-IN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 315.05(c) OF THE SPECIFICATIONS EXCEPT THAT ALL JOINTS AT TIE-IN LOCATIONS SHALL BE TESTED USING A 10 FOOT STRAIGHTEDGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 315.07(g) OF THE SPECIFICATIONS.

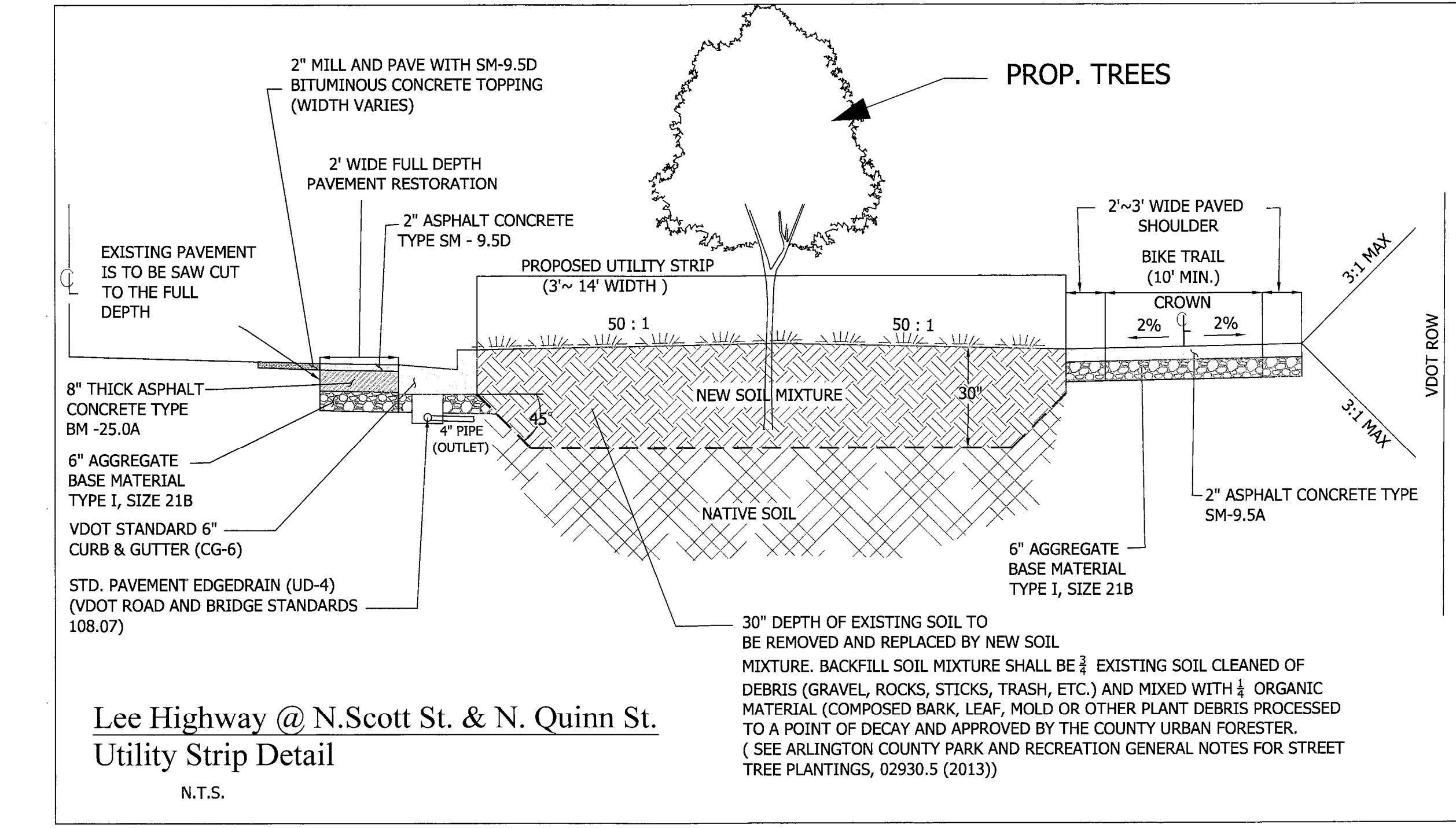
ASPHALT PAVEMENT WIDENING (WP-2)



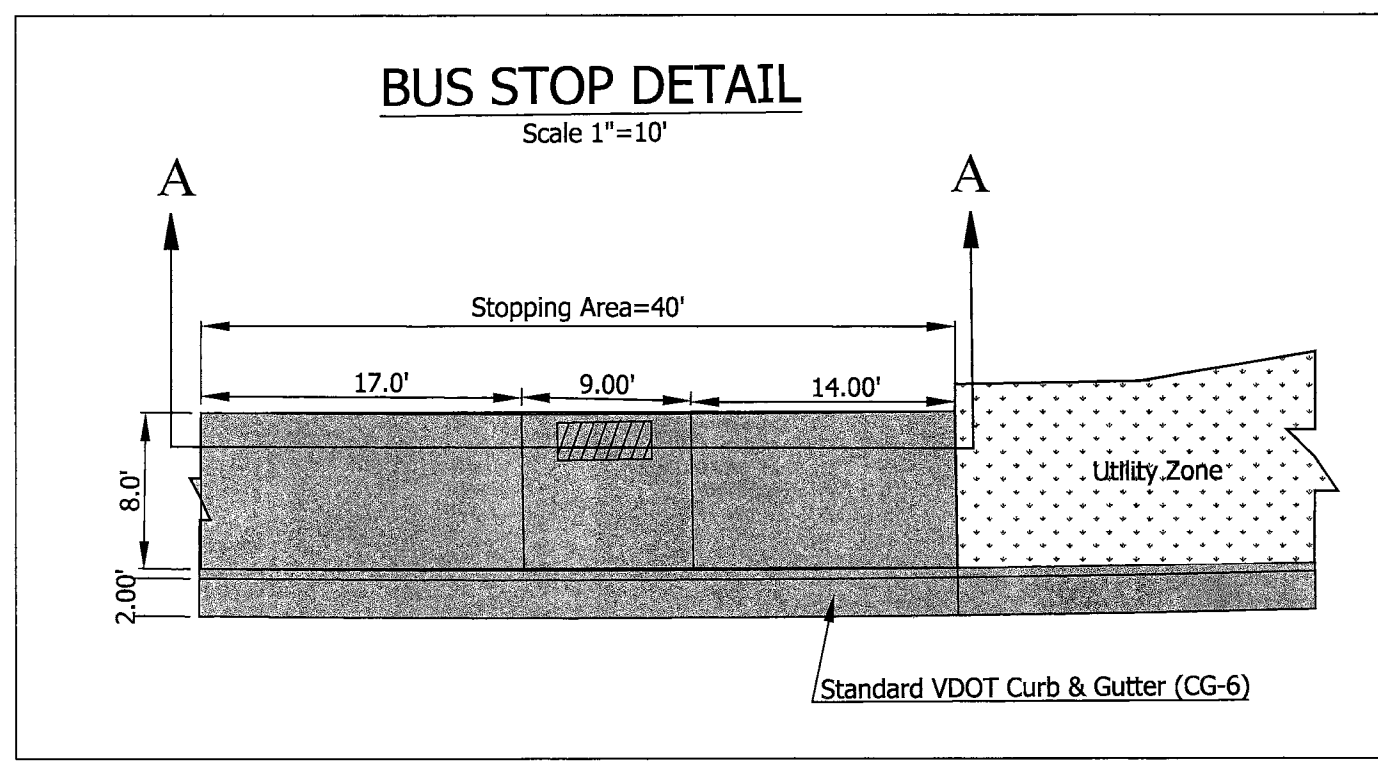
- UTILITIES**
- THE UTILITY INFORMATION SHOWN ON THESE PLANS IS TAKEN FROM INFORMATION RECEIVED FROM THE UTILITY COMPANIES AND IN SOME CASES FROM A UTILITY LOCATOR SERVICE COMPANY. THE DEPARTMENT OF ENVIRONMENTAL SERVICES DOES NOT GUARANTEE THAT THE UTILITY INFORMATION SHOWN ON THE PLANS IS COMPLETE OR ACCURATE. THE CONTRACTOR MUST VERIFY THE UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
 - ALL EXISTING UNDERGROUND UTILITIES SHALL BE MARKED IN THE FIELD BY MISS UTILITY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING THE FIELD MARKING OF UTILITIES WITH MISS UTILITY.
 - ALL EXISTING UNDERGROUND UTILITIES SHALL BE PHYSICALLY LOCATED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF ANY CONSTRUCTION IN THE VICINITY OF THESE UTILITIES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EXISTING UTILITIES ARE DISCONNECTED, PRIOR TO CLEARING THE SITE OF TREES, BUILDINGS, FOUNDATIONS, ETC. WITHIN THE LIMITS OF CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS INDICATED ON THE CONSTRUCTION PLANS.
 - FOR MARKING LOCATIONS OF EXISTING UNDERGROUND UTILITY FACILITIES (GAS, TELEPHONE, ELECTRIC AND CABLE TV), CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 OR 1-800-257-7777 48 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.
- | UTILITY COMPANIES | OFFICE NUMBER | EMERGENCY NUMBER |
|------------------------------|----------------|------------------|
| COMCAST CABLE COMMUNICATIONS | (703) 567-4191 | (703) 567-4800 |
| DOMINION VIRGINIA POWER | (703) 838-2210 | (703) 934-9860 |
| PEPCO | (202) 872-2845 | (202) 833-7500 |
| WASHINGTON GAS | (703) 750-1000 | (703) 750-4831 |
| VERIZON | (703) 954-8611 | (703) 954-8611 |
| MISS UTILITY | 1-800-257-7777 | 1-800-257-7777 |



- CONSTRUCTION NOTES:**
- EXCAVATION OF EX. STREET FOR INSTALLATION OF NEW CURB SHALL BE LIMITED TO 1' FROM THE EDGE OF THE NEW GUTTER PAN UNLESS OTHERWISE SHOWN ON THE PLANS. CONTRACTOR SHALL PROVIDE A STRIP OF NEW FULL DEPTH PAVEMENT ADJACENT TO PROPOSED CONCRETE GUTTER PAN TO MATCH UP WITH THE EXISTING ASPHALT WHERE APPLICABLE.
 - CONTRACTOR TO COORDINATE WITH THE COUNTY'S PROJECT MANAGER TO ARRANGE FOR COUNTY PERSONNEL TO BE ON-SITE DURING EXCAVATION ADJACENT TO TREES WHERE TREE PROTECTION IS SPECIFIED.
 - ALL DISTURBED AREAS SHALL BE STABILIZED WITH SOD UNLESS OTHERWISE NOTED ON THE PLANS.
 - WHERE PROP. CURB AND GUTTER, DRIVEWAYS, AND SIDEWALKS ARE TO BE INSTALLED ADJACENT TO EXISTING FACILITIES OF THE SAME TYPE, PROP. FACILITIES SHALL BE INSTALLED FLUSH WITH THE EXISTING UNLESS OTHERWISE NOTED ON THE PLANS.

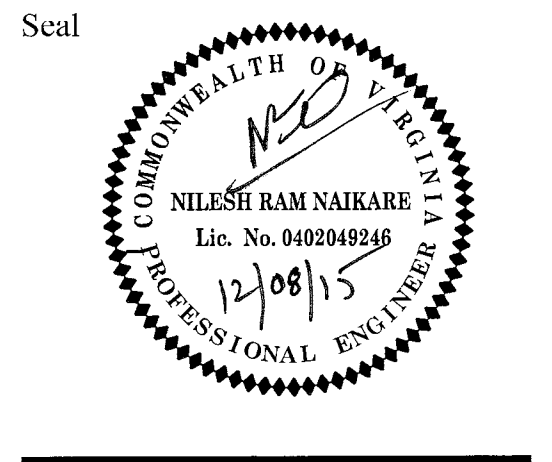


Lee Highway @ N.Scott St. & N. Quinn St.
Utility Strip Detail
N.T.S.



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



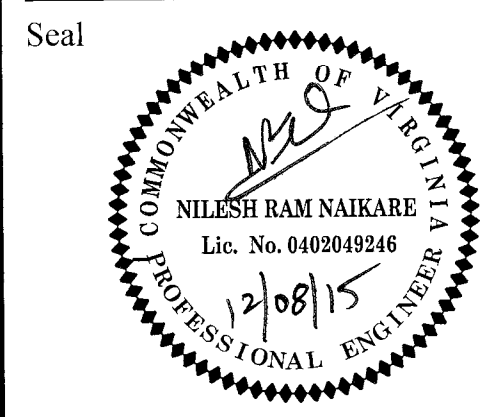
| Approvals | Date |
|----------------------------------|----------|
| DESIGN TEAM SUPERVISOR | 12/08/15 |
| ENGINEERING BUREAU CHIEF | 12/08/15 |
| WATER/SEWER STREETS BUREAU CHIEF | 12/15/15 |
| TRANSPORTATION DIRECTOR | 12/11/15 |

| Revisions | Date |
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Custis Trail-Safety Improvements
Detail Sheet 1
Safety Improvements Project
From N. Oak Street
To N. Scott Street
313.43520.B066K.0319.0000

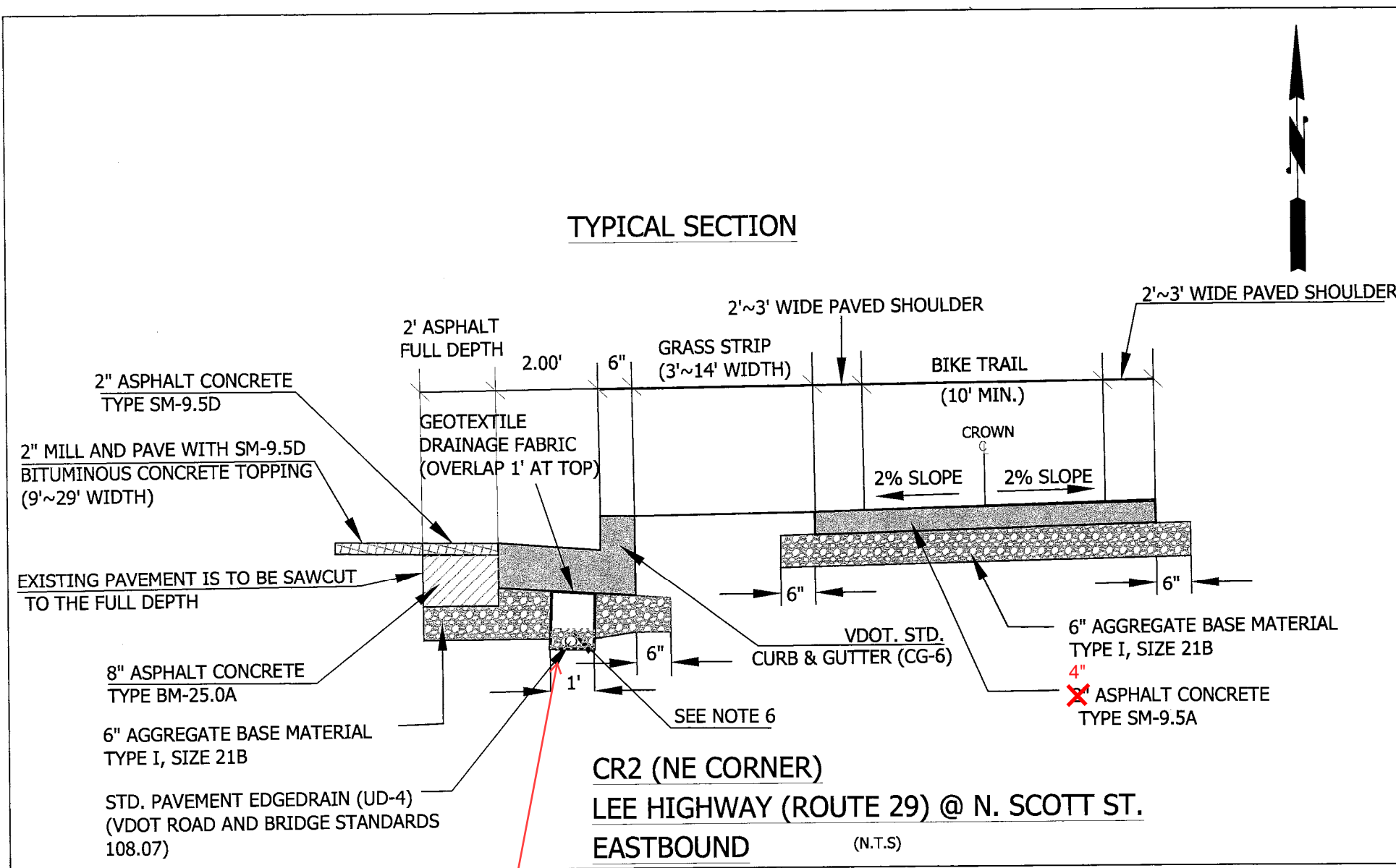
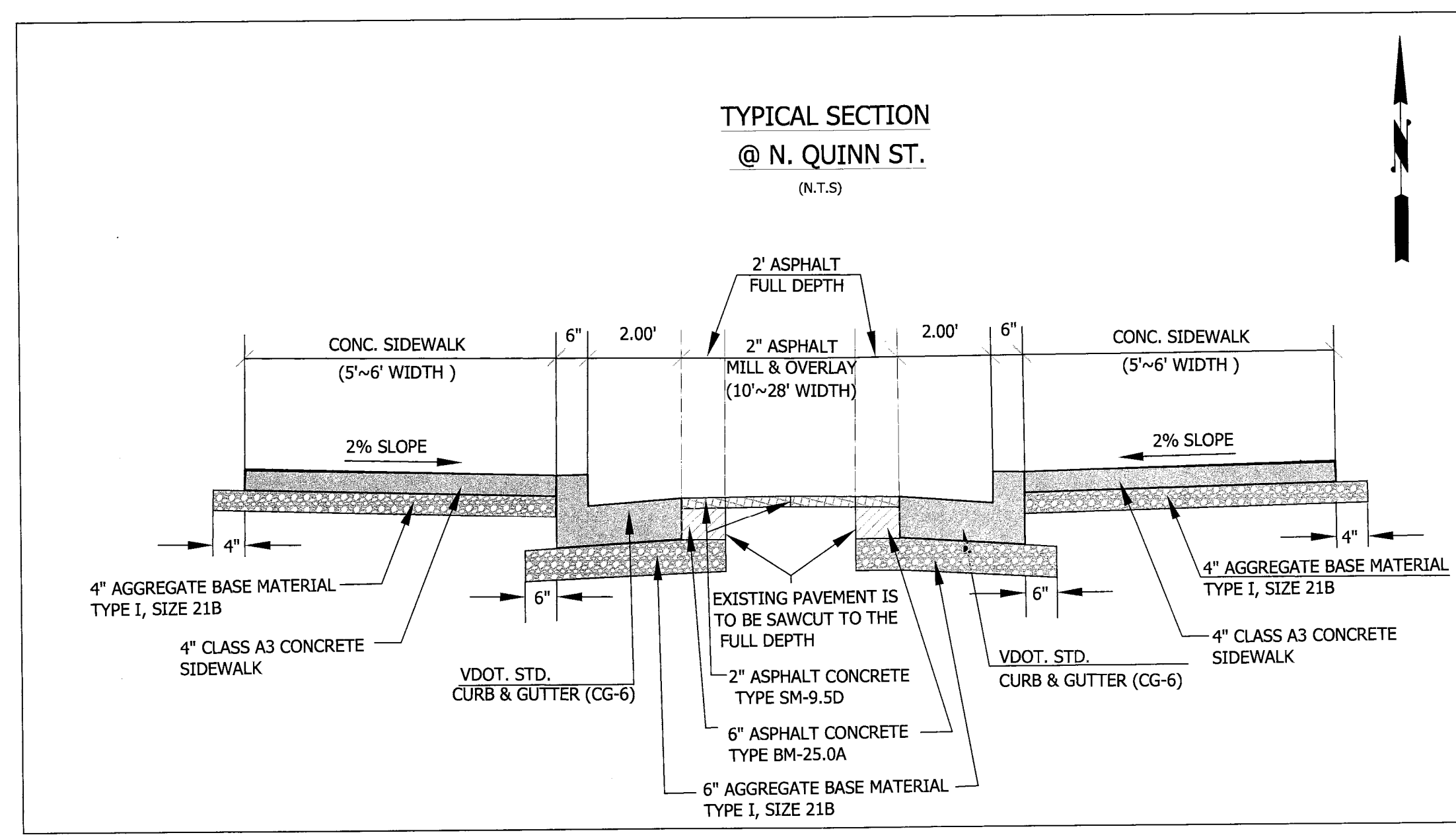
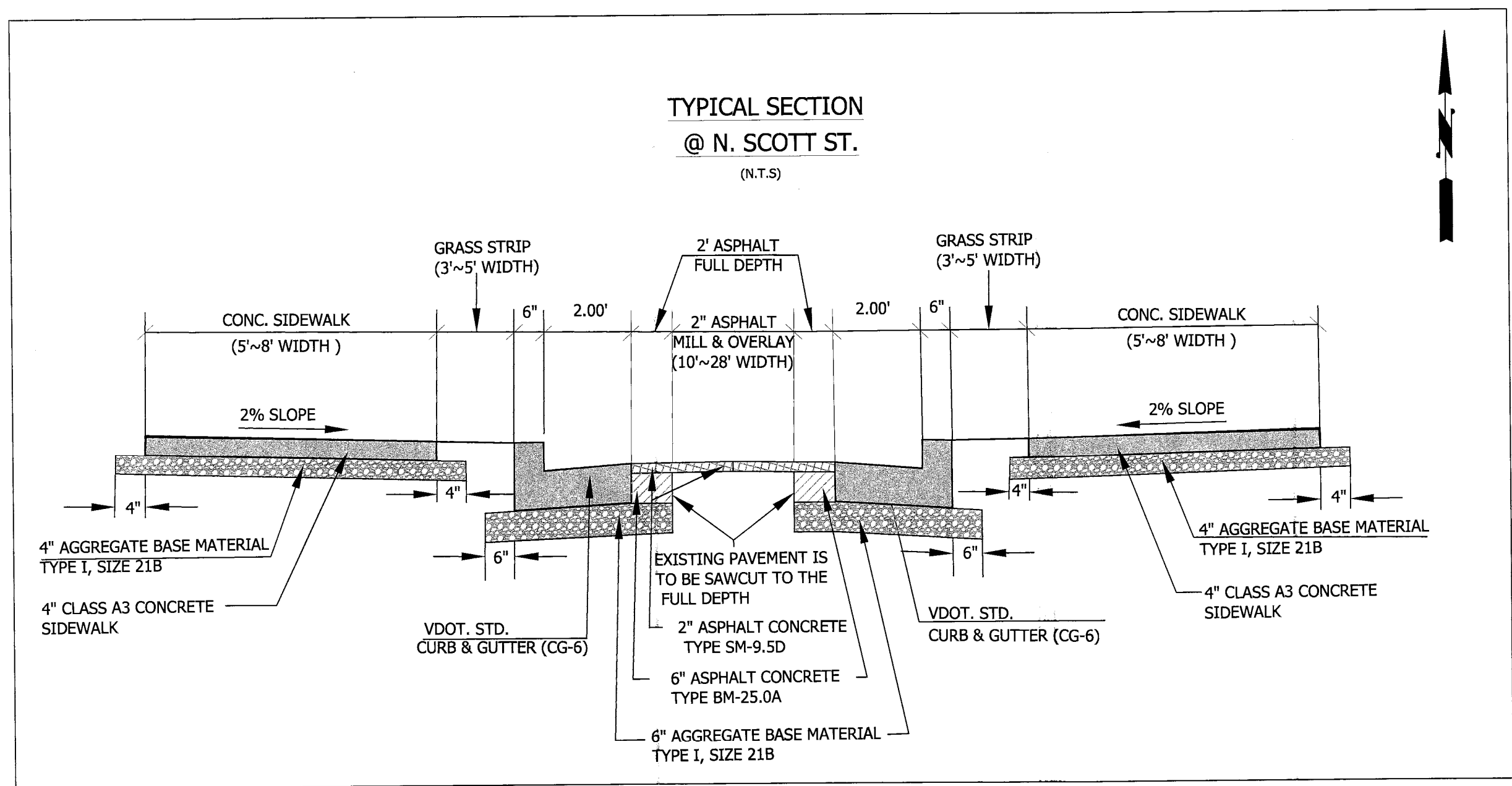
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Checked: NN
Miss Utility Transmittal #: 5203-D
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Path: Q:\Data\8066\DesignDrawings
Plotted: November 20, 2015
Plotted by: Pbanepali

Scale: As Noted
Sheet 2 of 44



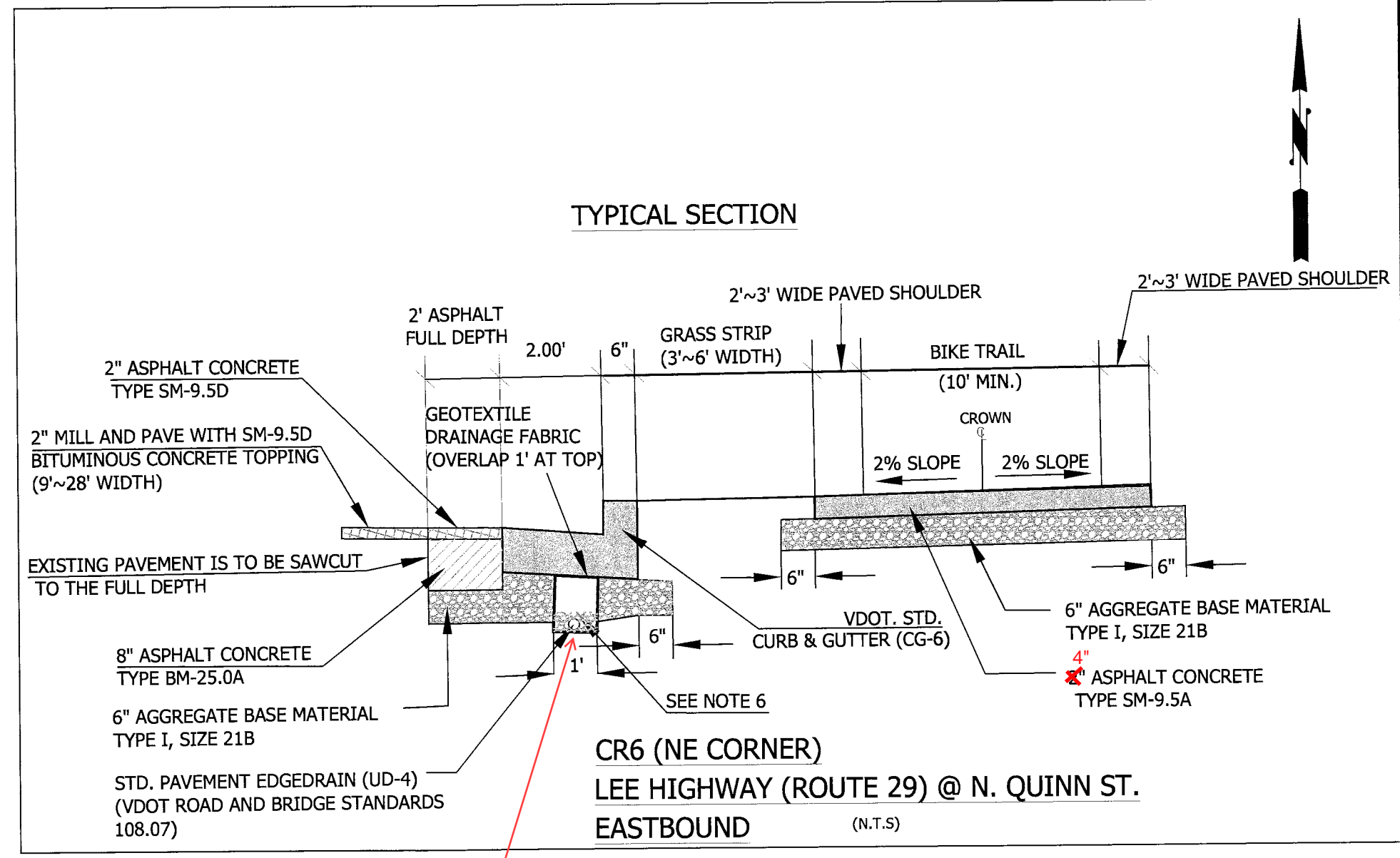
| Approvals | Date |
|------------------------------------|----------|
| <i>[Signature]</i> | 12/08/15 |
| DESIGN TEAM SUPERVISOR | |
| <i>[Signature]</i> | 12/08/15 |
| ENGINEERING BUREAU CHIEF | |
| <i>[Signature]</i> | 12/15/15 |
| WATER, SEWER, STREETS BUREAU CHIEF | |
| <i>[Signature]</i> | 12/15/15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

| Revisions | Date |
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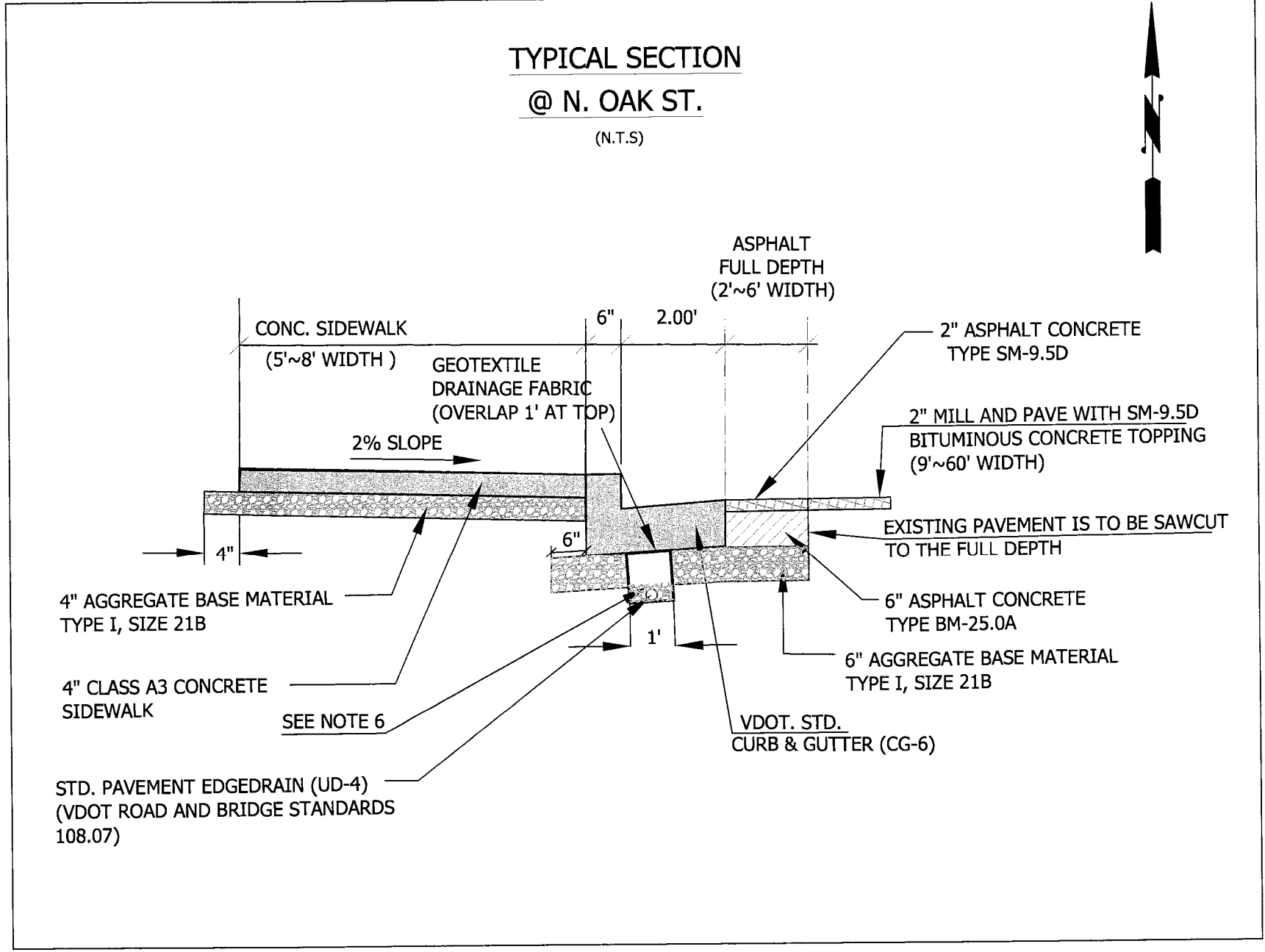
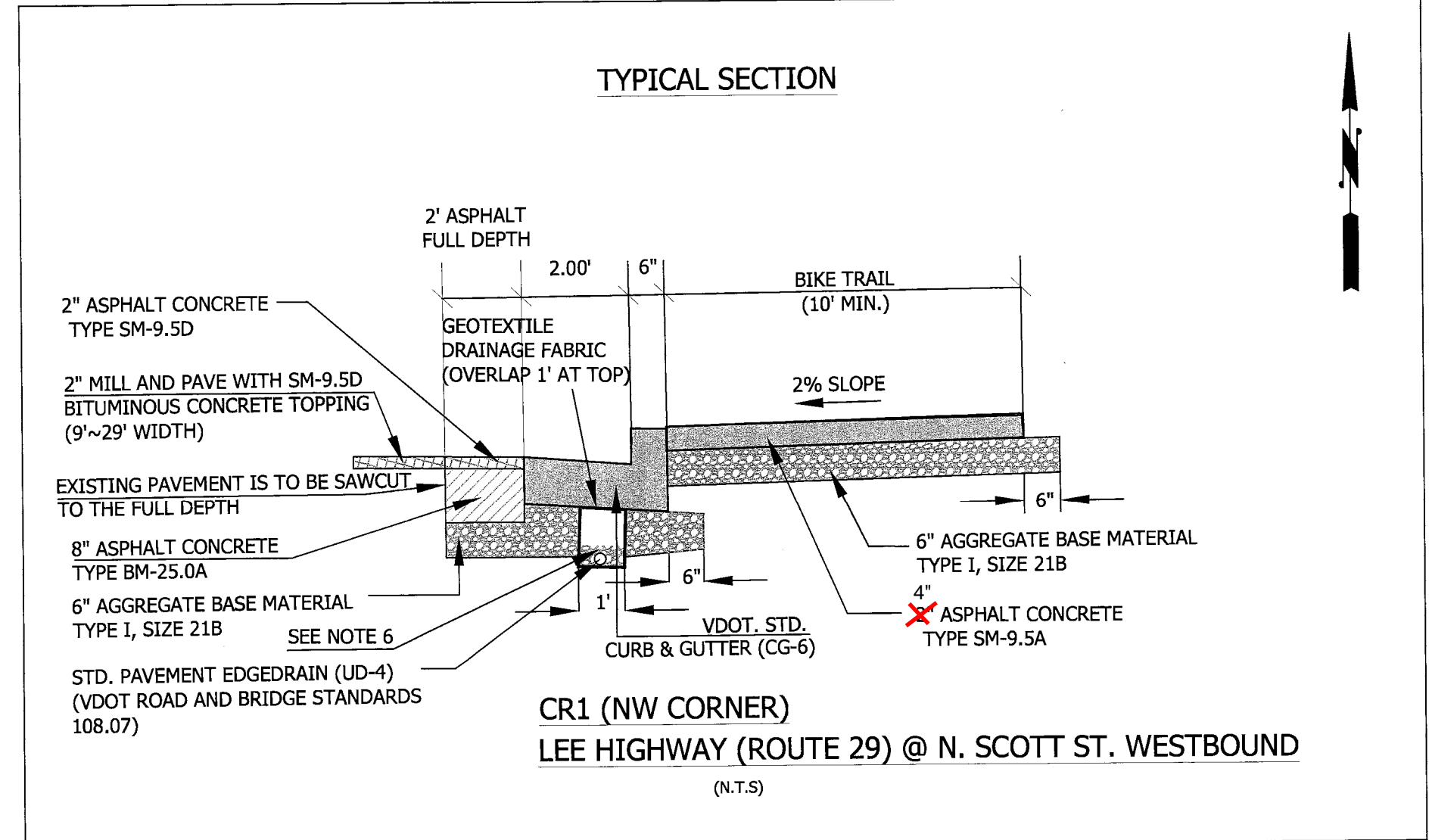
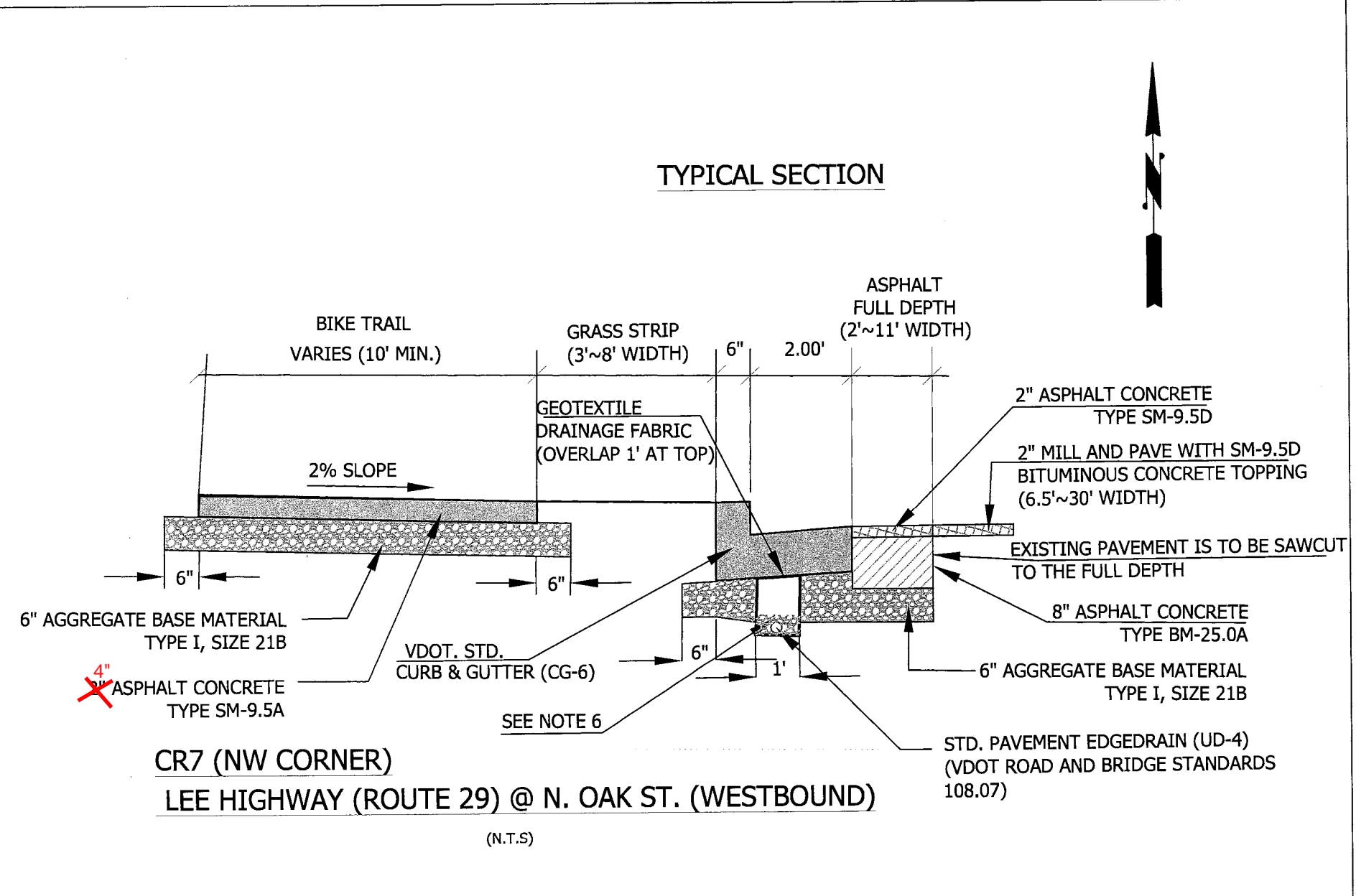


Underdrain Omitted in this section. No place to terminated underdrain downstream.

- 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.



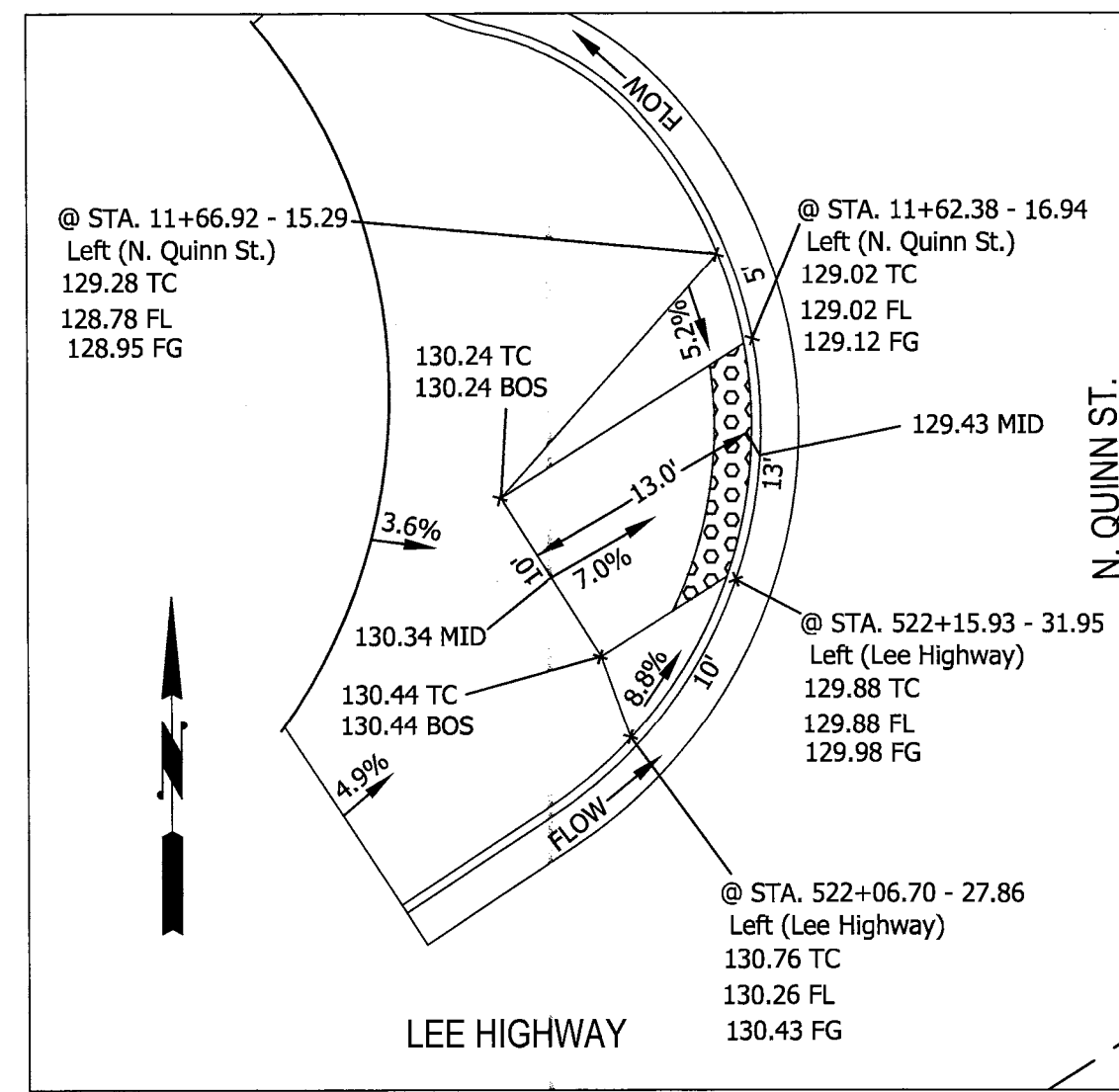
Underdrain Omitted in this section. No place to terminated underdrain downstream.



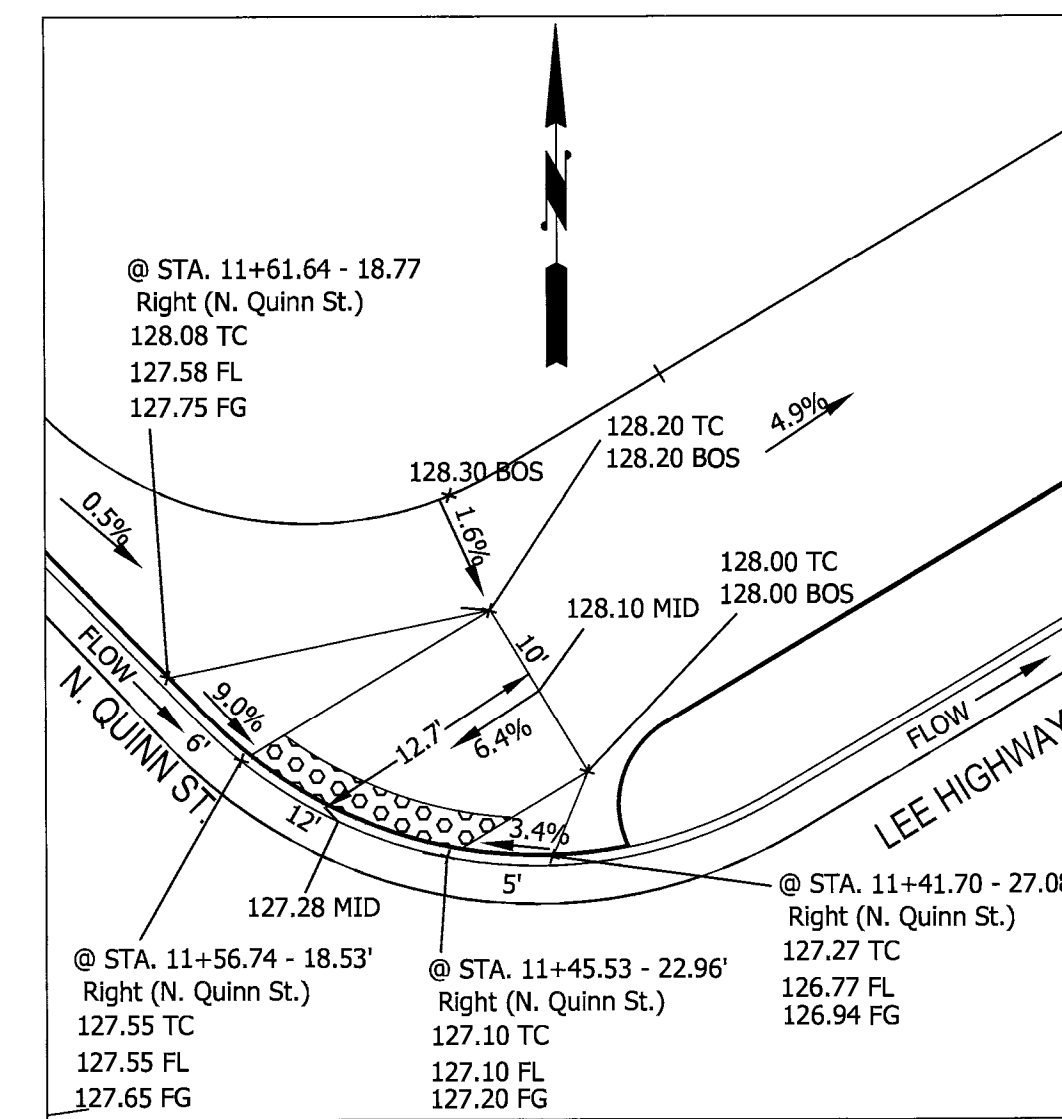
Project Name and Location
Custis Trail-Safety Improvements
Detail Sheet 2 (Typical)
Safety Improvements Project
From N. Oak Street
To N. Scott Street
313.45520.1306K.019.0000

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

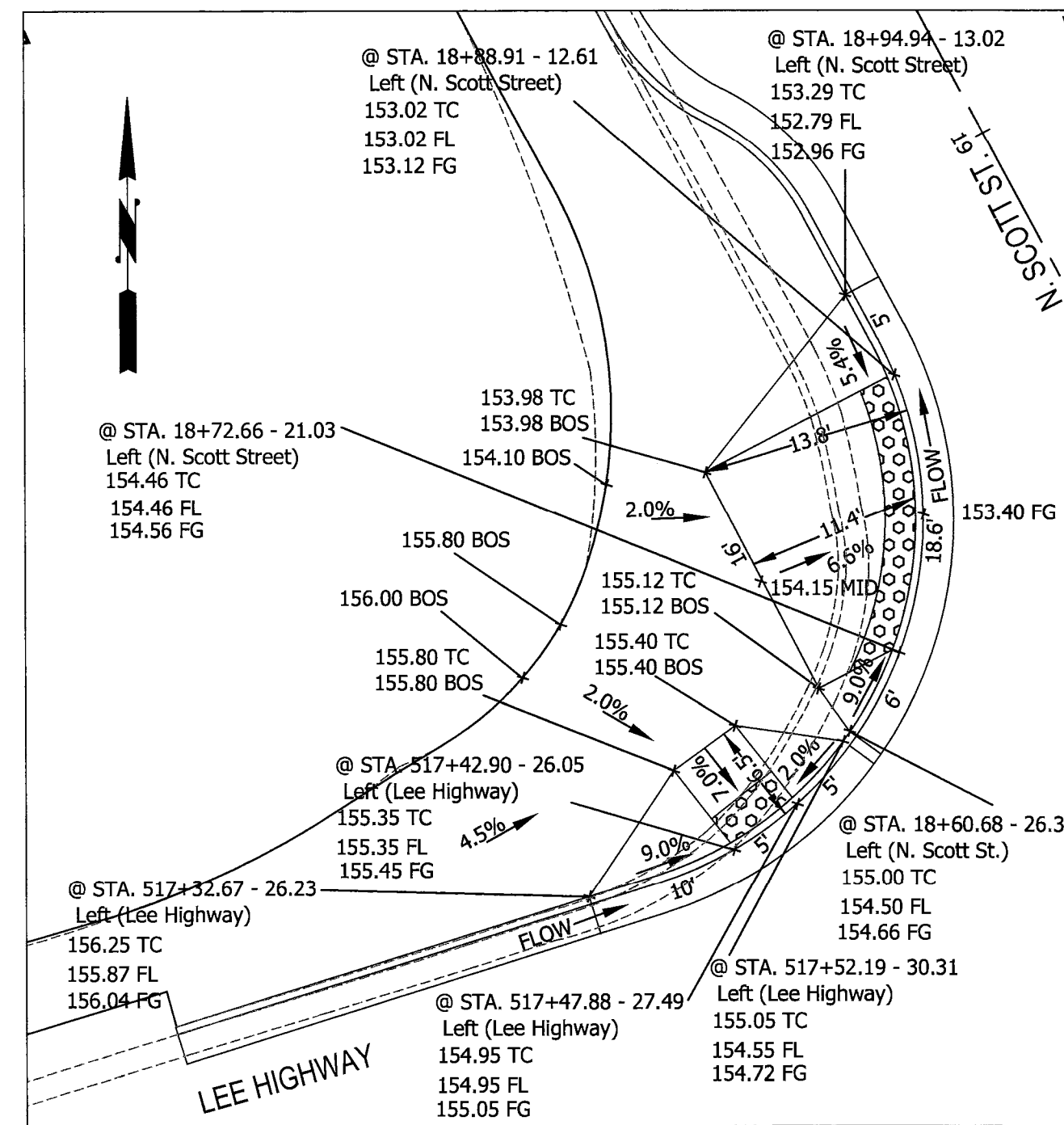
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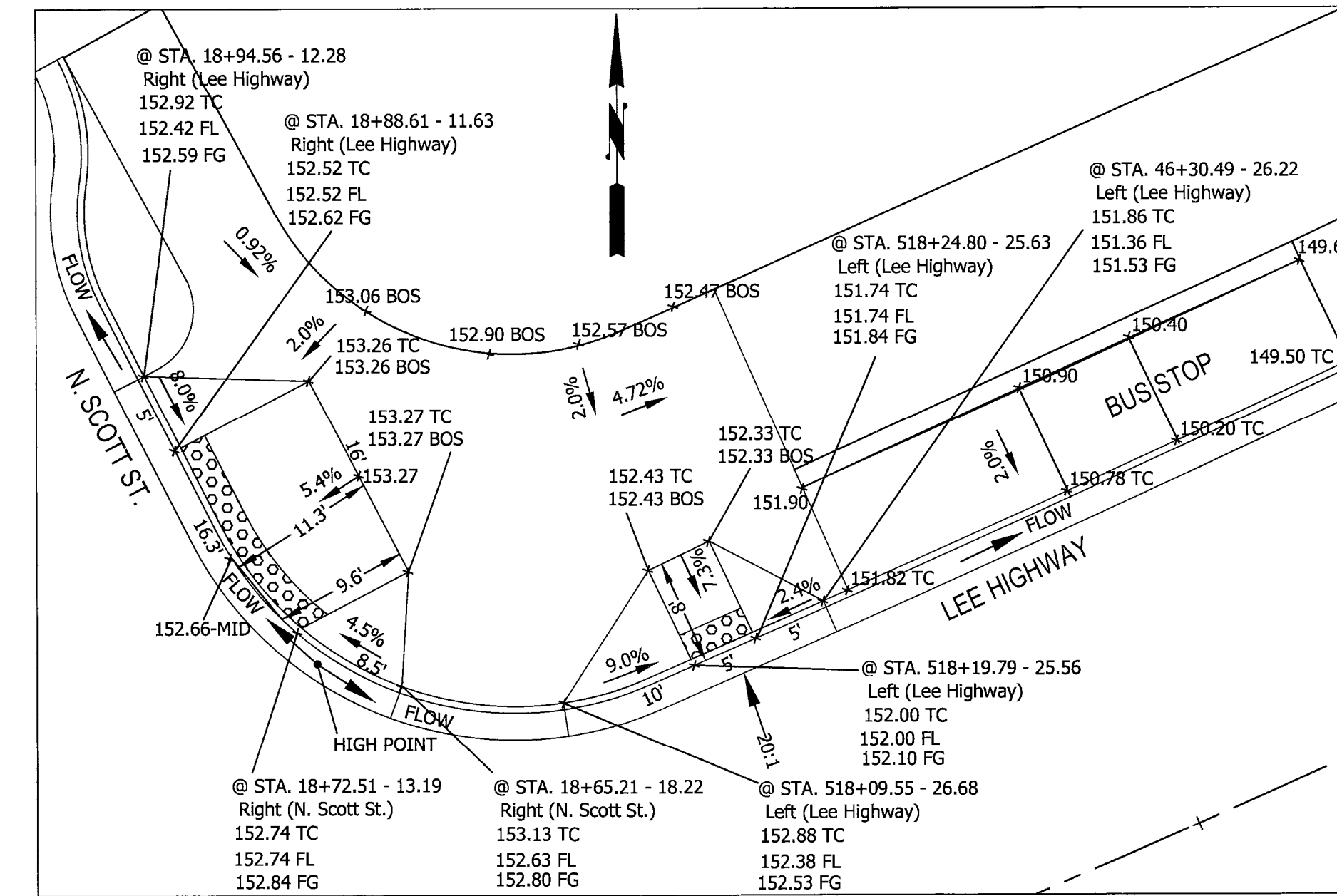
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Scale: 1"=10'



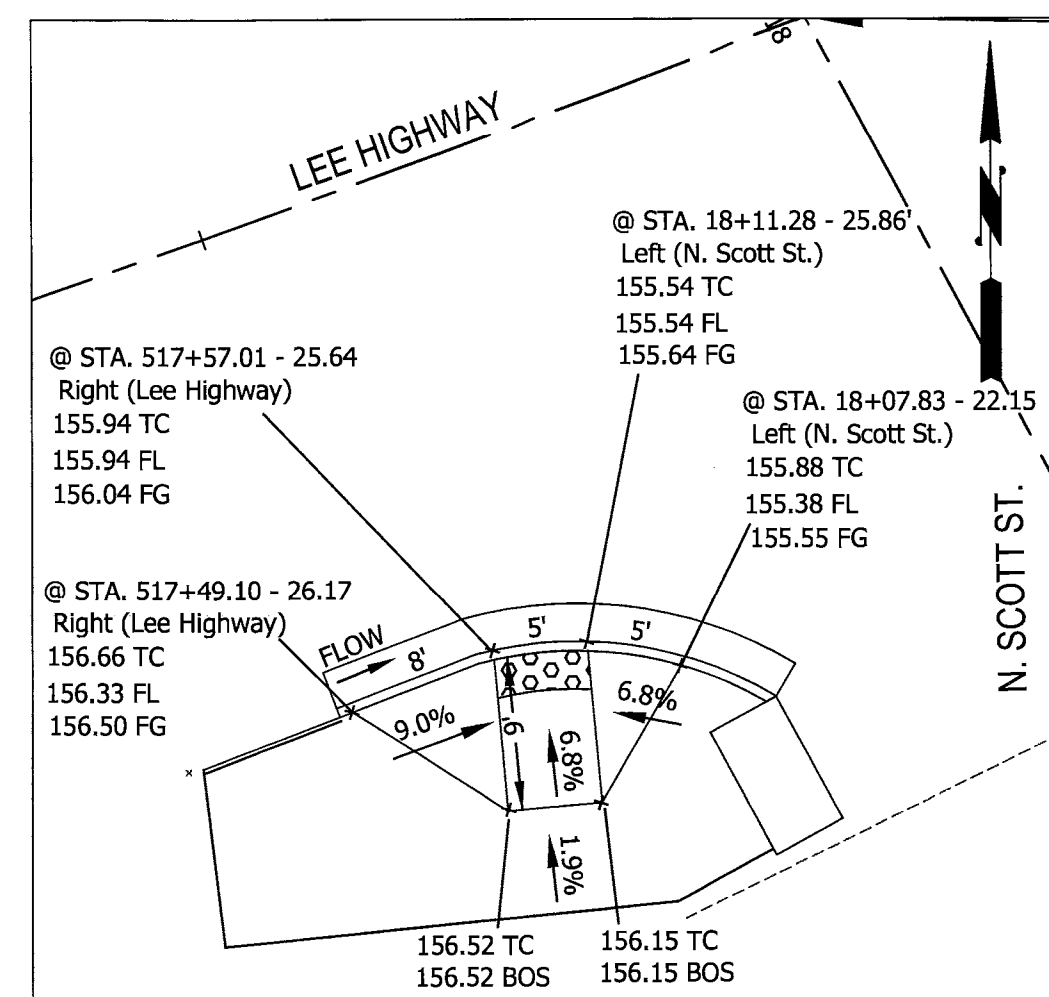
NE Curb Ramps-N. Quinn St.
Scale: 1"=10'



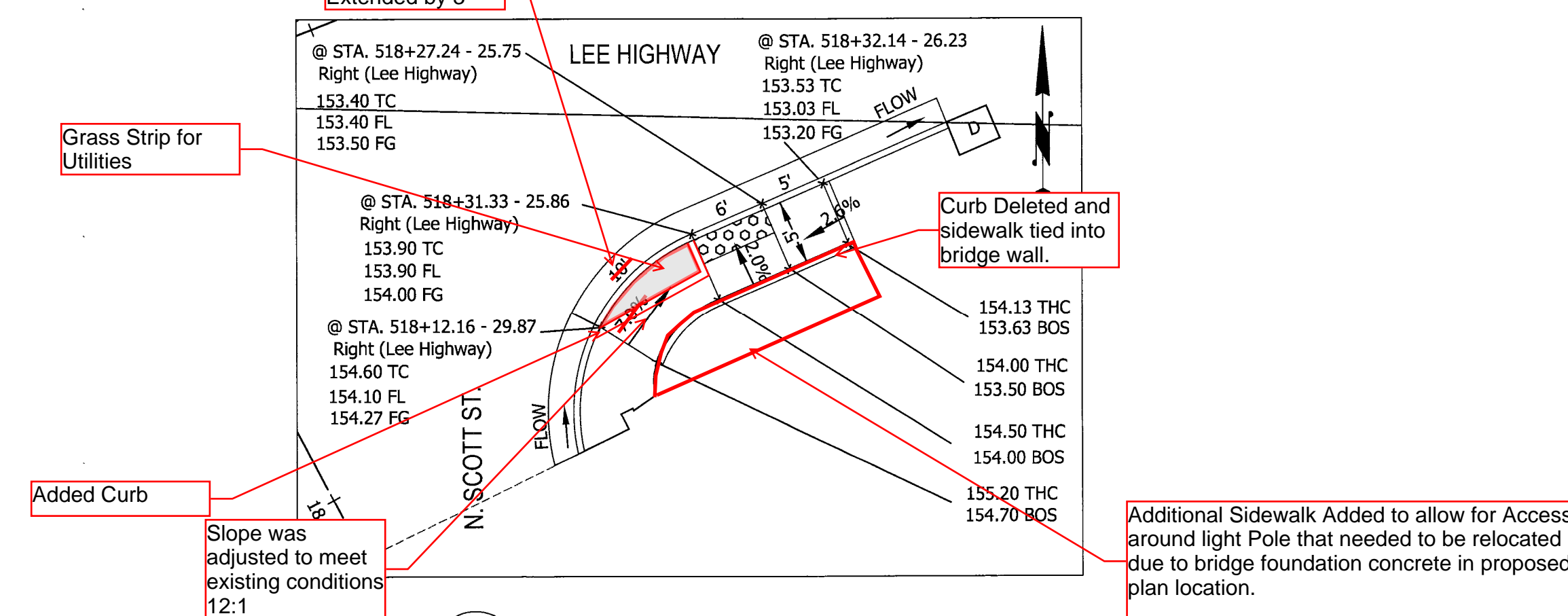
NW Curb Ramps-N. Scott St.
Scale: 1"=10'



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

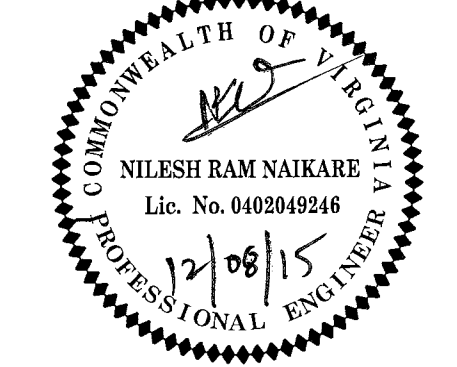


SW Curb Ramps-N. Scott St.
Scale: 1"=10'



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

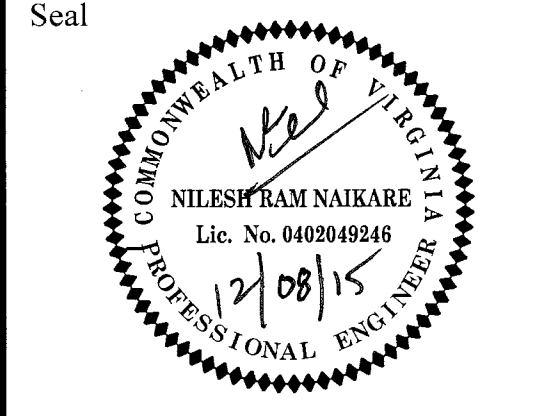
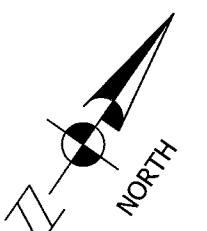
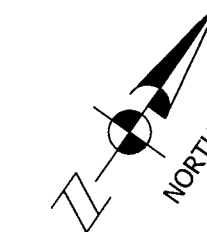
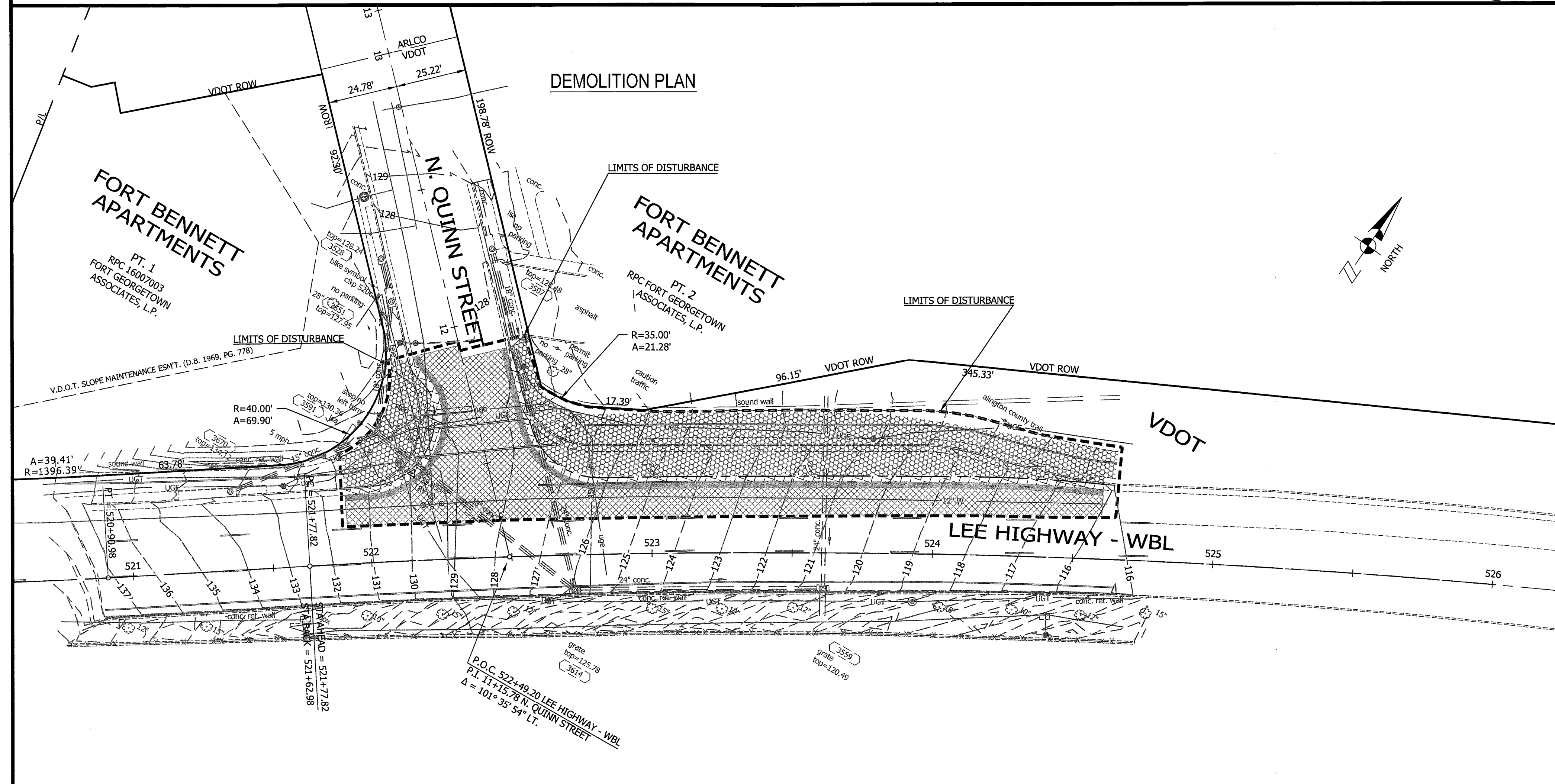
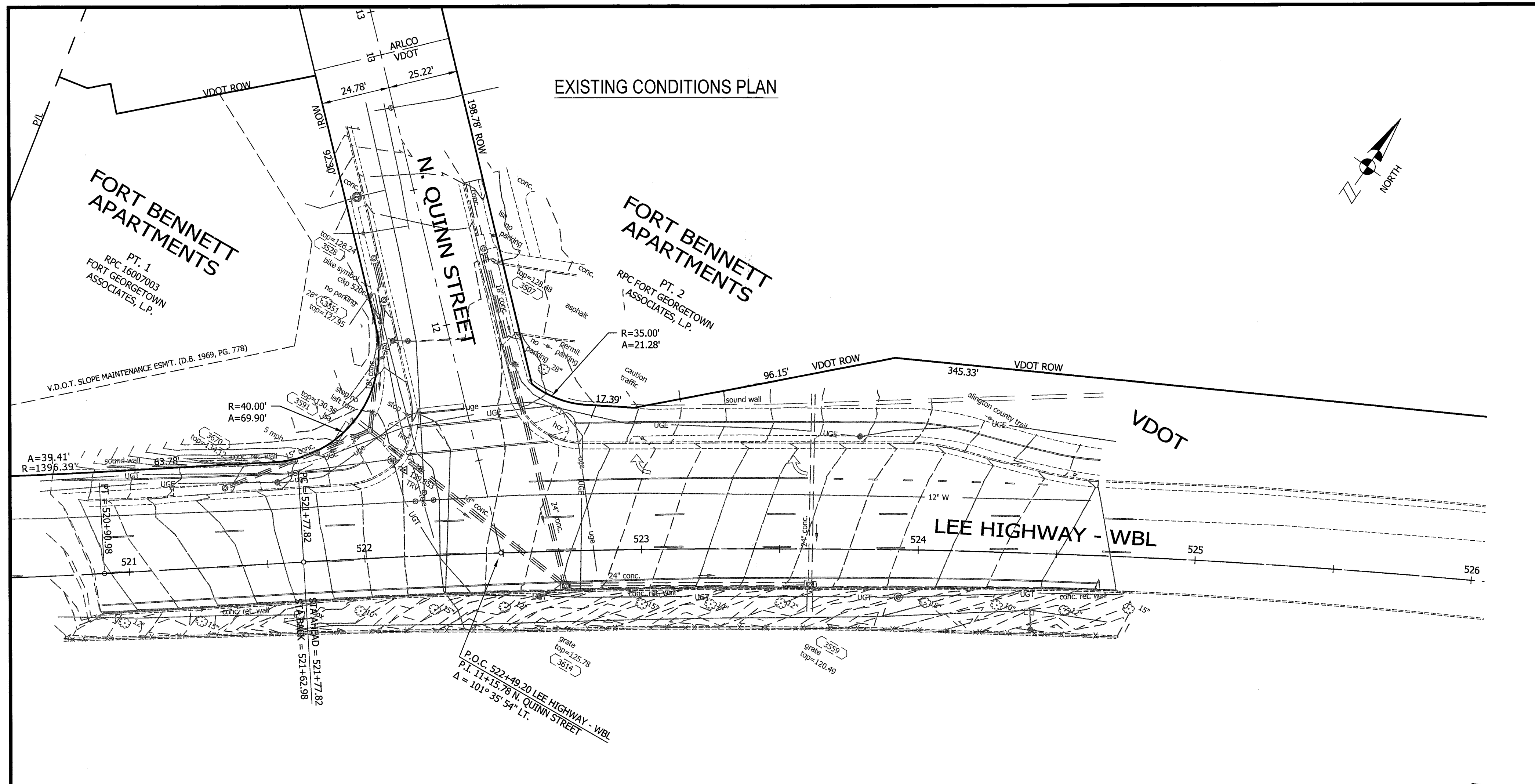
| Revisions | Date |
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Custis Trail-Safety Improvements
Detail Sheet 3 (Ramp Details)
Safety Improvements Project
From N. Oak Street
To N. Scott Street
313.4.3520.B006K.0319.0000

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



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

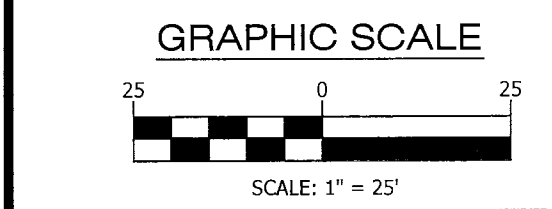
- DEMOLITION NOTES:**
- I. GENERAL
- INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND TREE PROTECTION FENCES, AS SHOWN ON THE PLANS, PRIOR TO COMMENCING THE WORK.
 - COORDINATE UTILITY (PERMANENT AND/OR TEMPORARY) SHUTOFF, DISCONNECT AND/OR ABANDONMENT WITH UTILITY OWNER AND PROJECT OFFICER.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

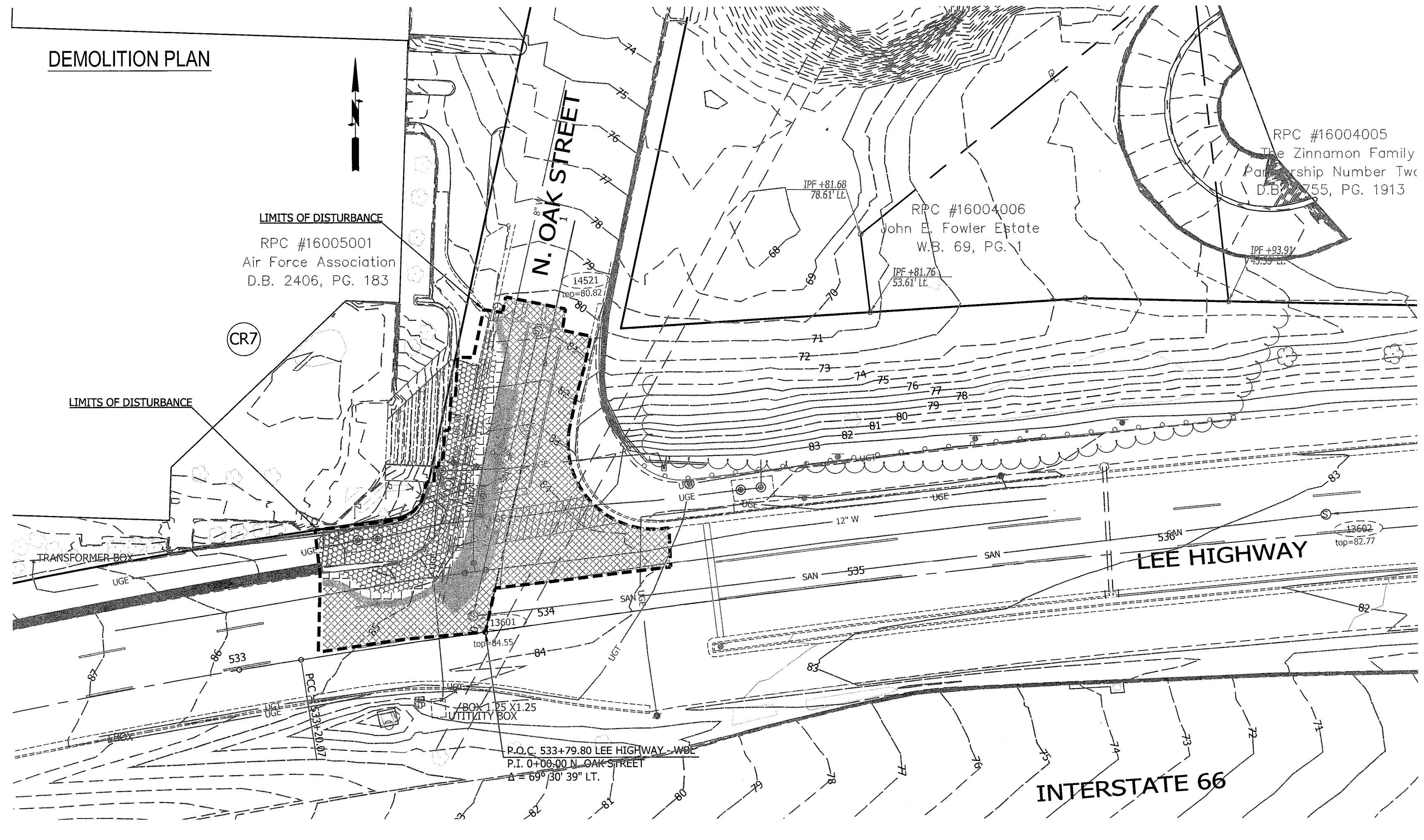
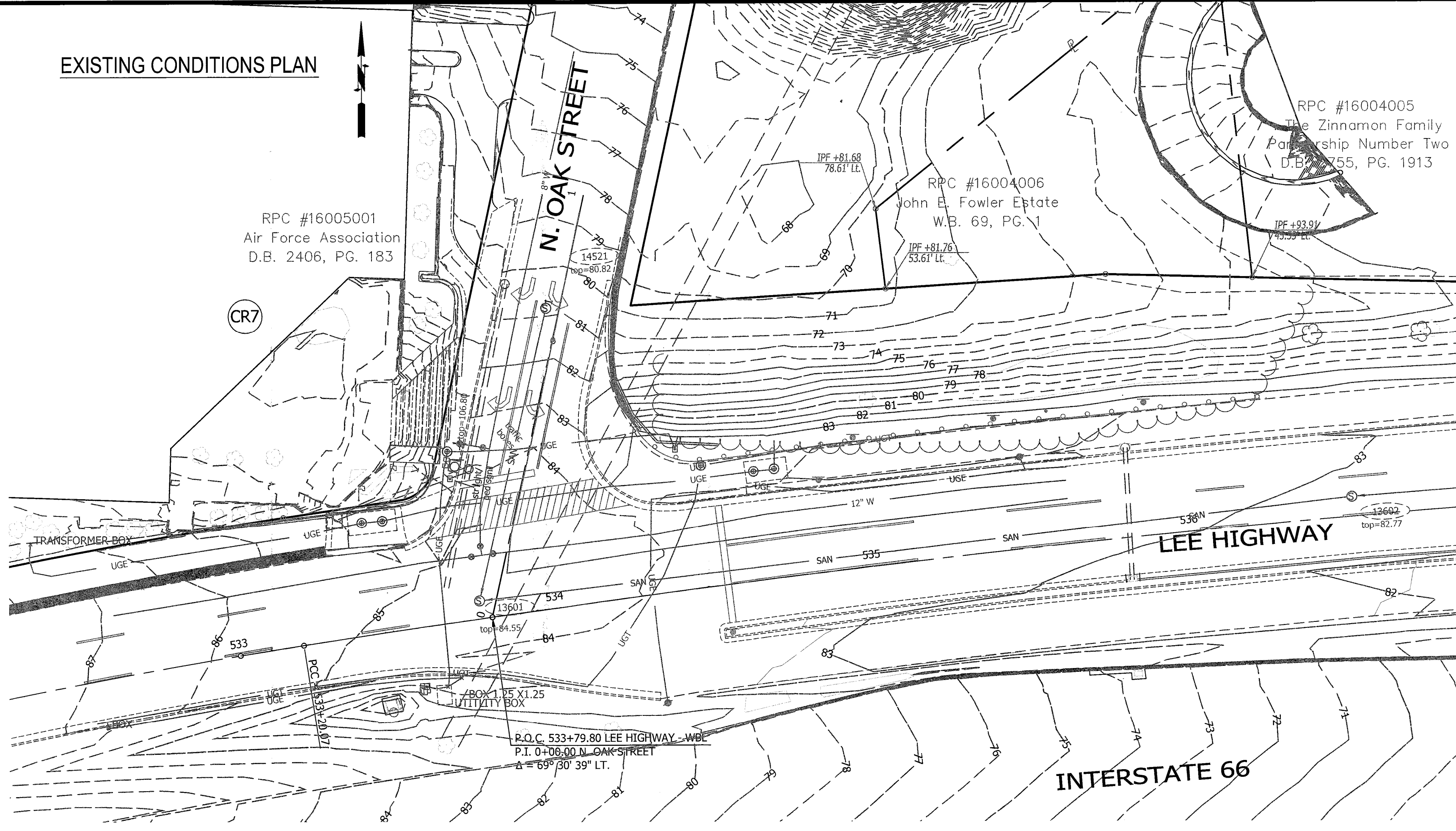
Project Name and Location
Custis Trail-Safety Improvements
 Ex Conditions & Demolition Plan- N. Quinn St.
 Safety Improvements Project
 From N. Oak Street
 To N. Scott Street
 31.3.45.20.B06K.0319.0000

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'





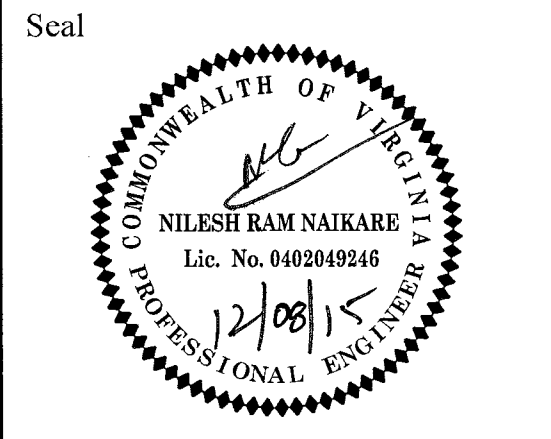
| LEGEND | |
|--------|-------------------------------|
| | REMOVE EXISTING CURB & GUTTER |
| | DEMOLISH EXISTING DRIVEWAY |
| | DEMOLISH EXISTING SIDEWALK |
| | FULL DEPTH PAVEMENT REMOVAL |
| | MILL EXISTING ASPHALT |

- 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
Fax: 703.228.3606



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

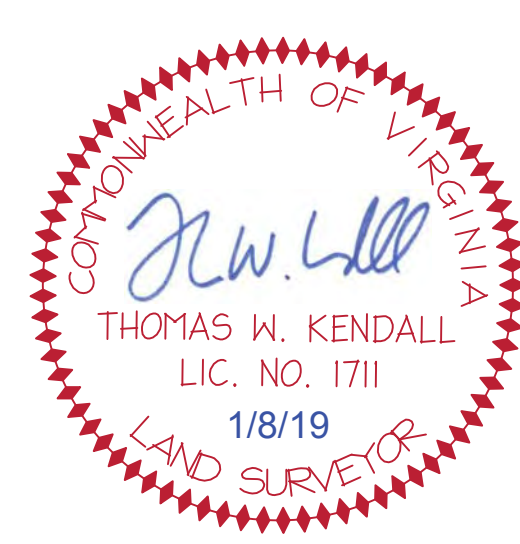
Project Name and Location
Custis Trail-Safety Improvements
Ex Conditions & Demolition Plan- N. Oak St.
From N. Oak Street
To N. Scott Street
313.435520.B06K.0319.0000

Designed: PB
Drawn: PB
Checked: NN
Miss Utility Transmittal #: S203-D
Filename: PPLAN_OAK_AUGUST 2015.dwg
Path: C:\Data\B06K\Design\Drawings
Plotted: September 17, 2015
Plotted by: Pbanepali

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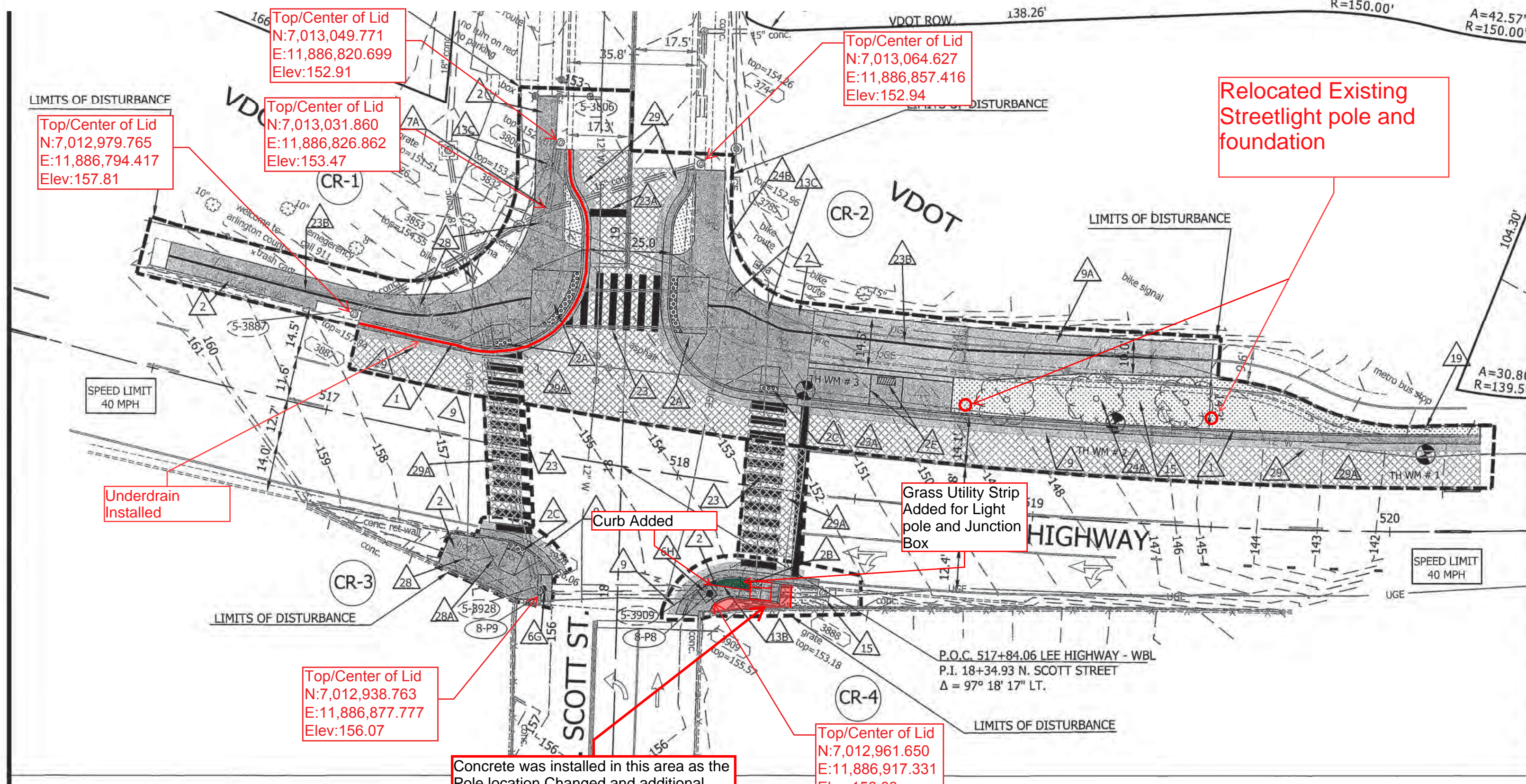
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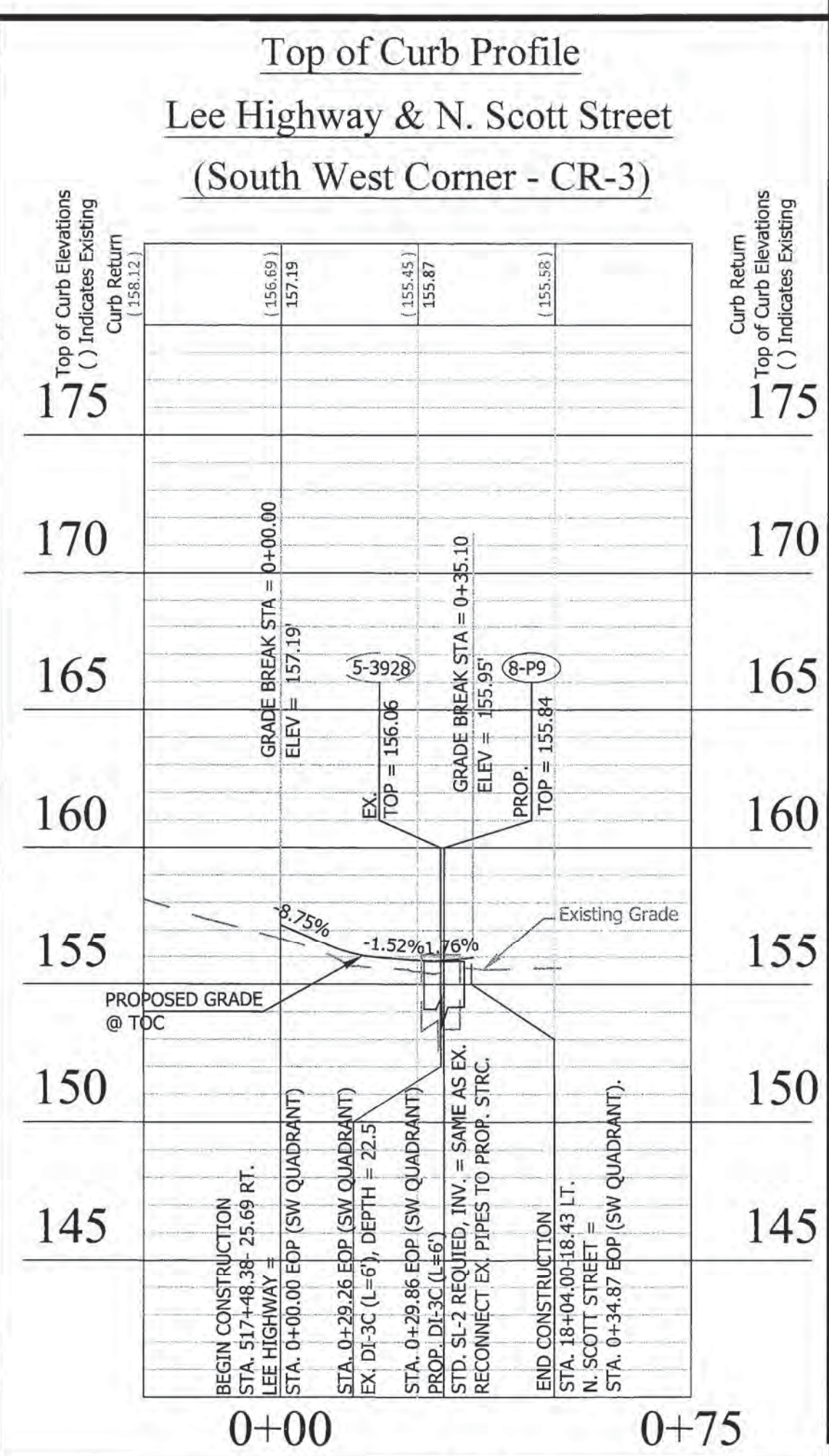
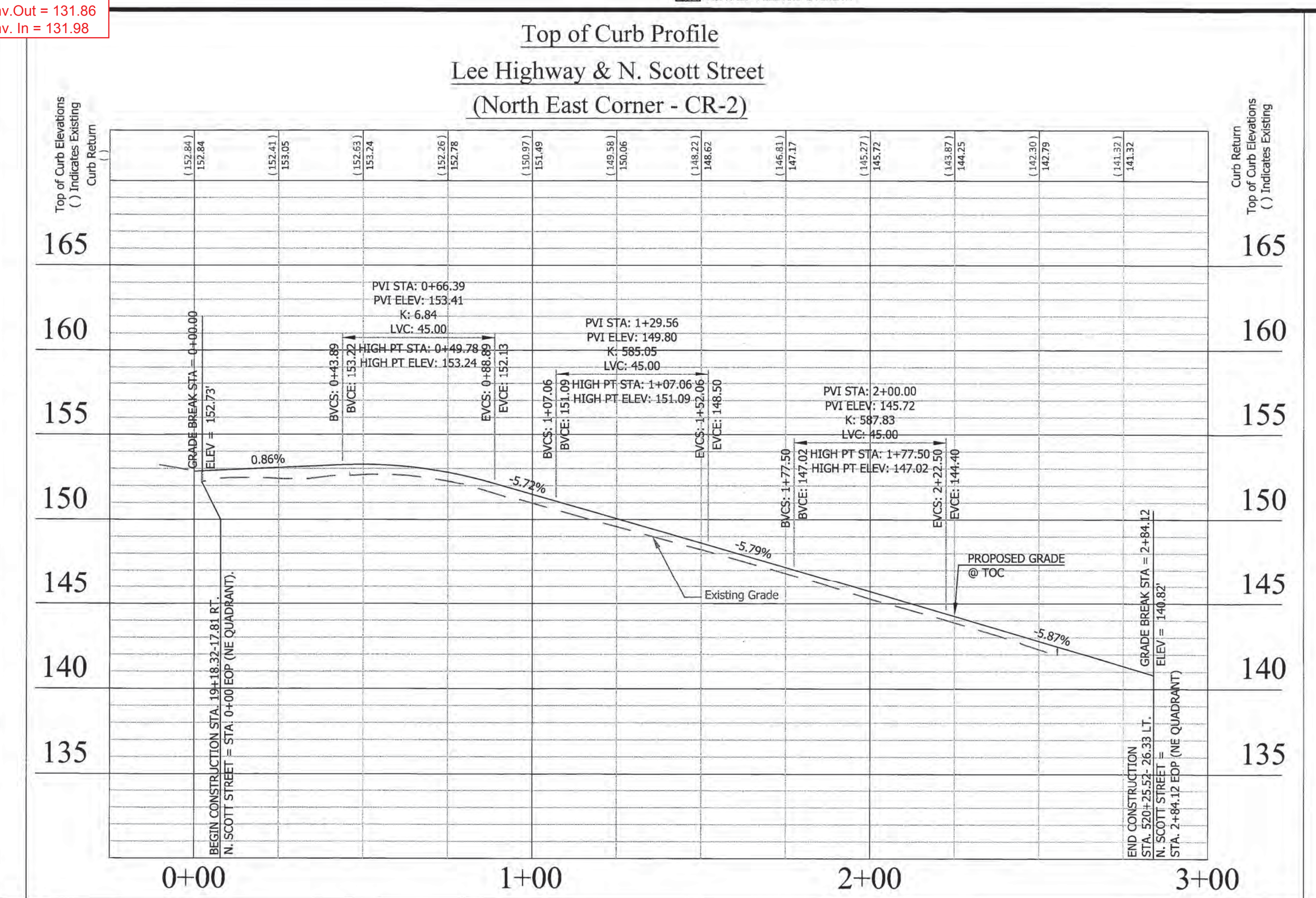
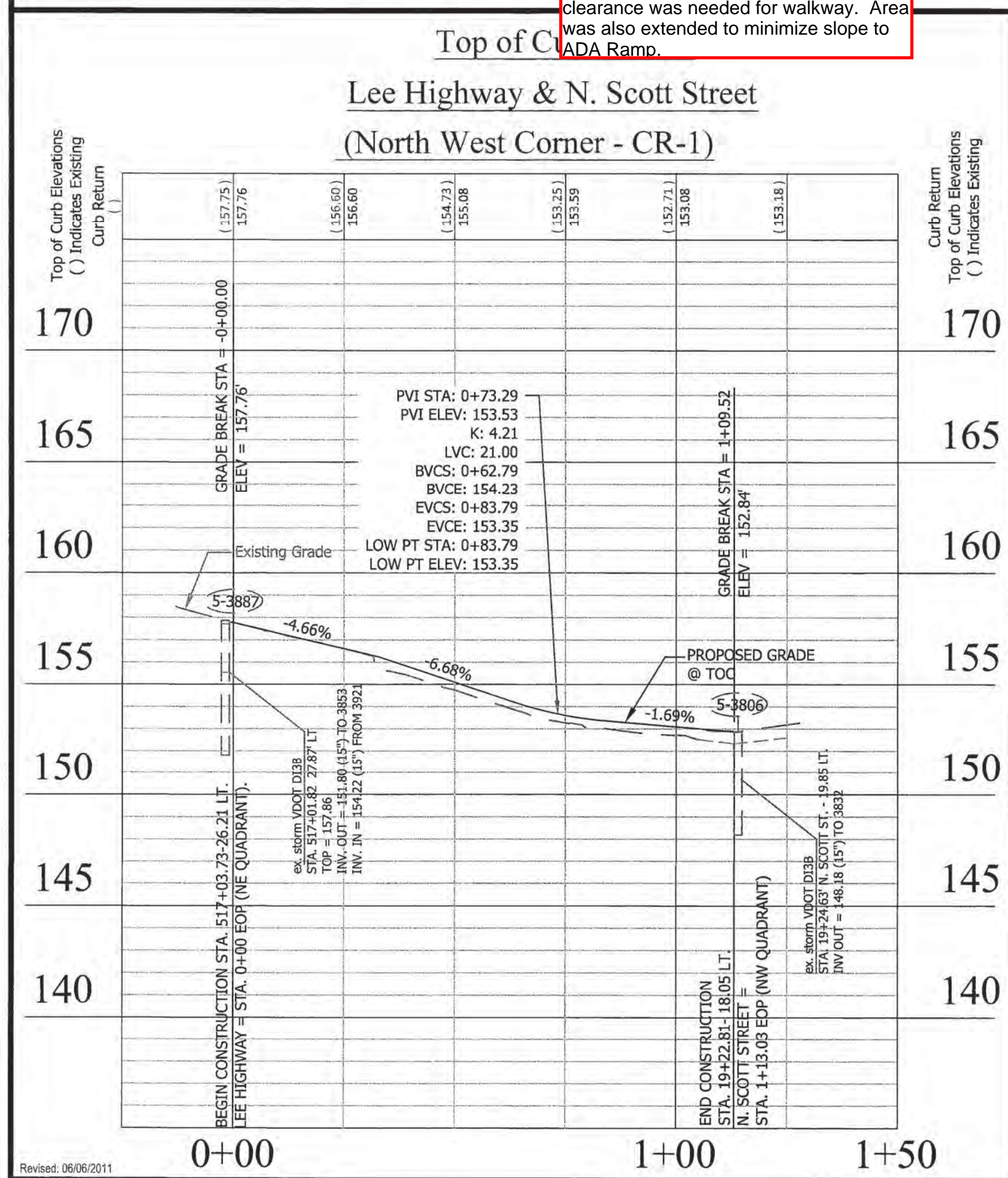
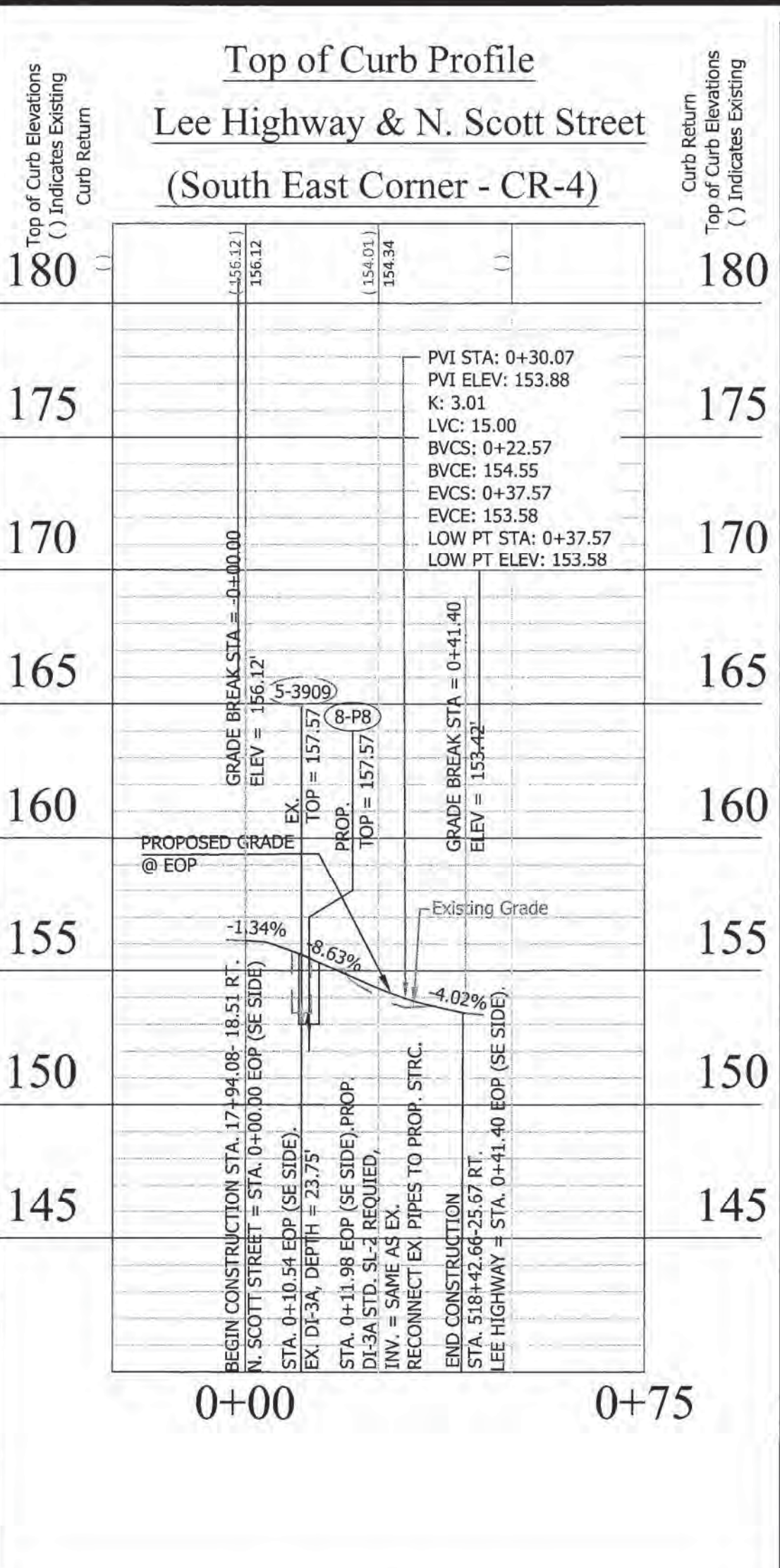


"As-Built" Drawings Prepared by:
Kendall Consulting, Inc.

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).
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 7. INSTALL STANDARD CURB DROP INLET DE-3B VDOT ROAD & BRIDGE STANDARDS (104.09) INLET TOP OVER EXISTING MANHOLE.
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ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
 Phone: 703.228.3829
 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: [Table]

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

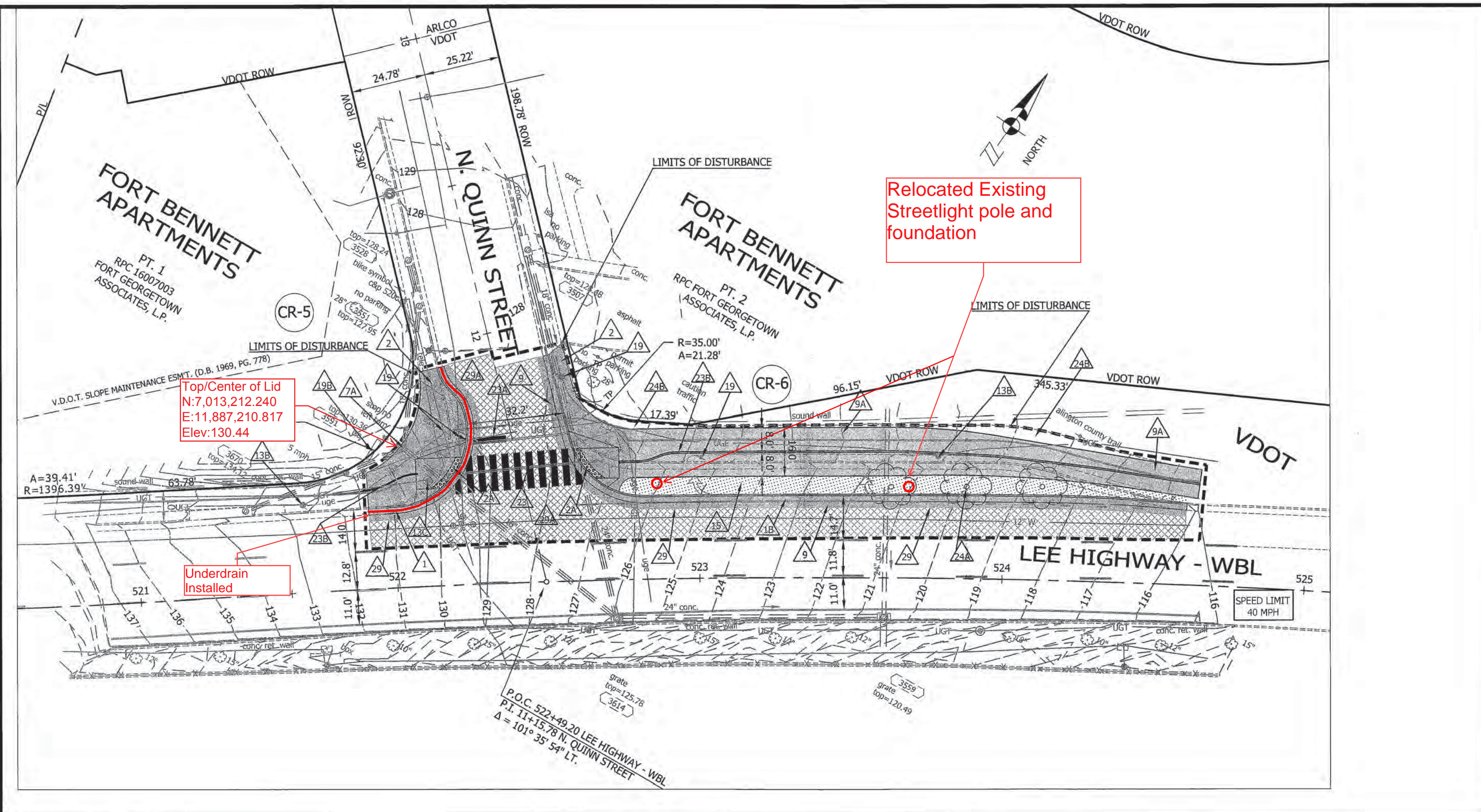
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 Plotted by: Phaneppai

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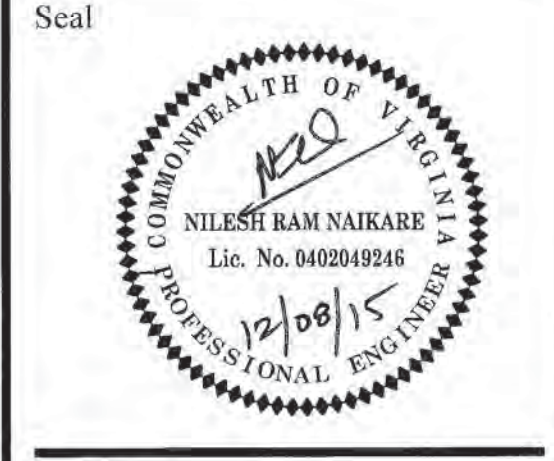
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Sheet 8 of 44



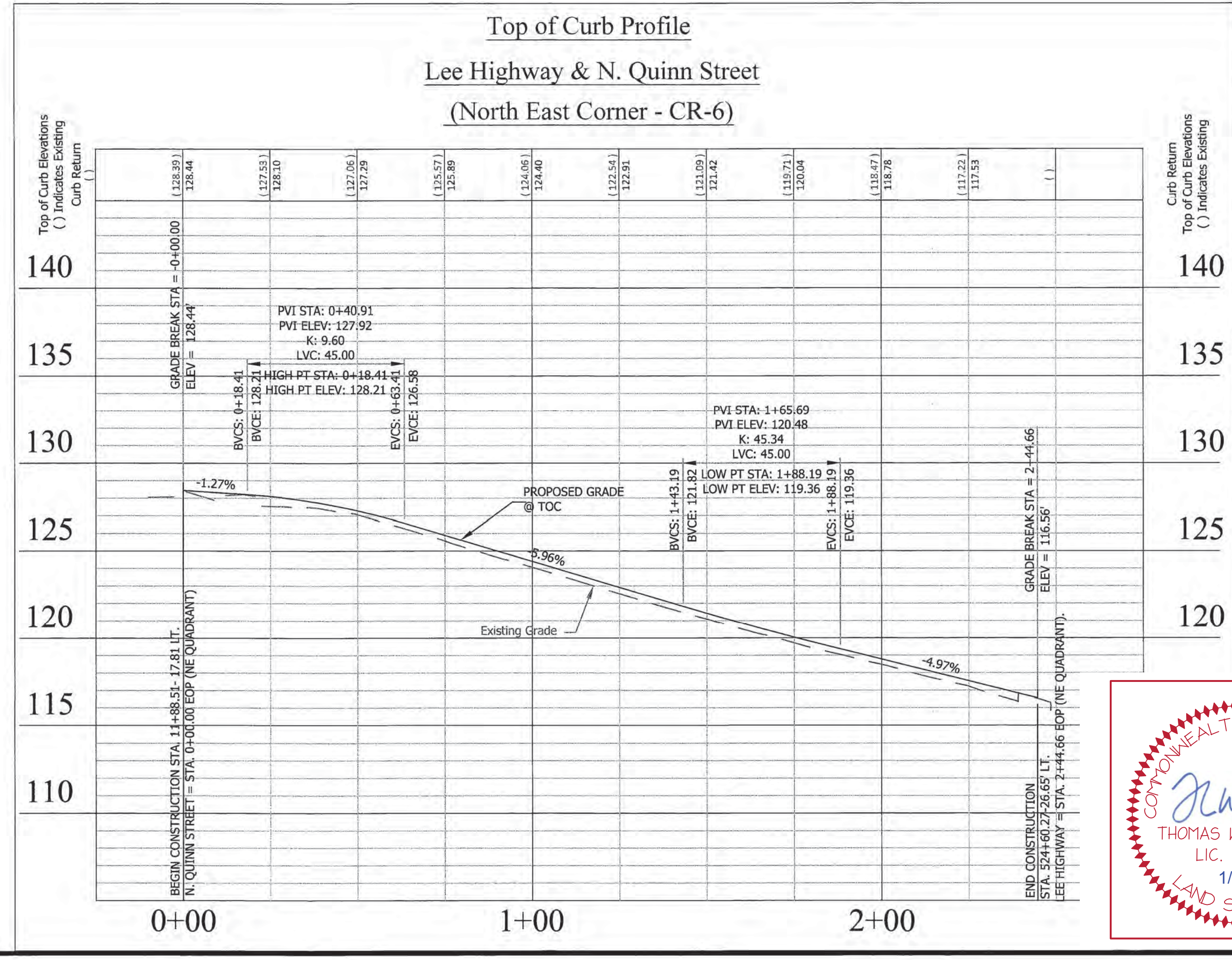
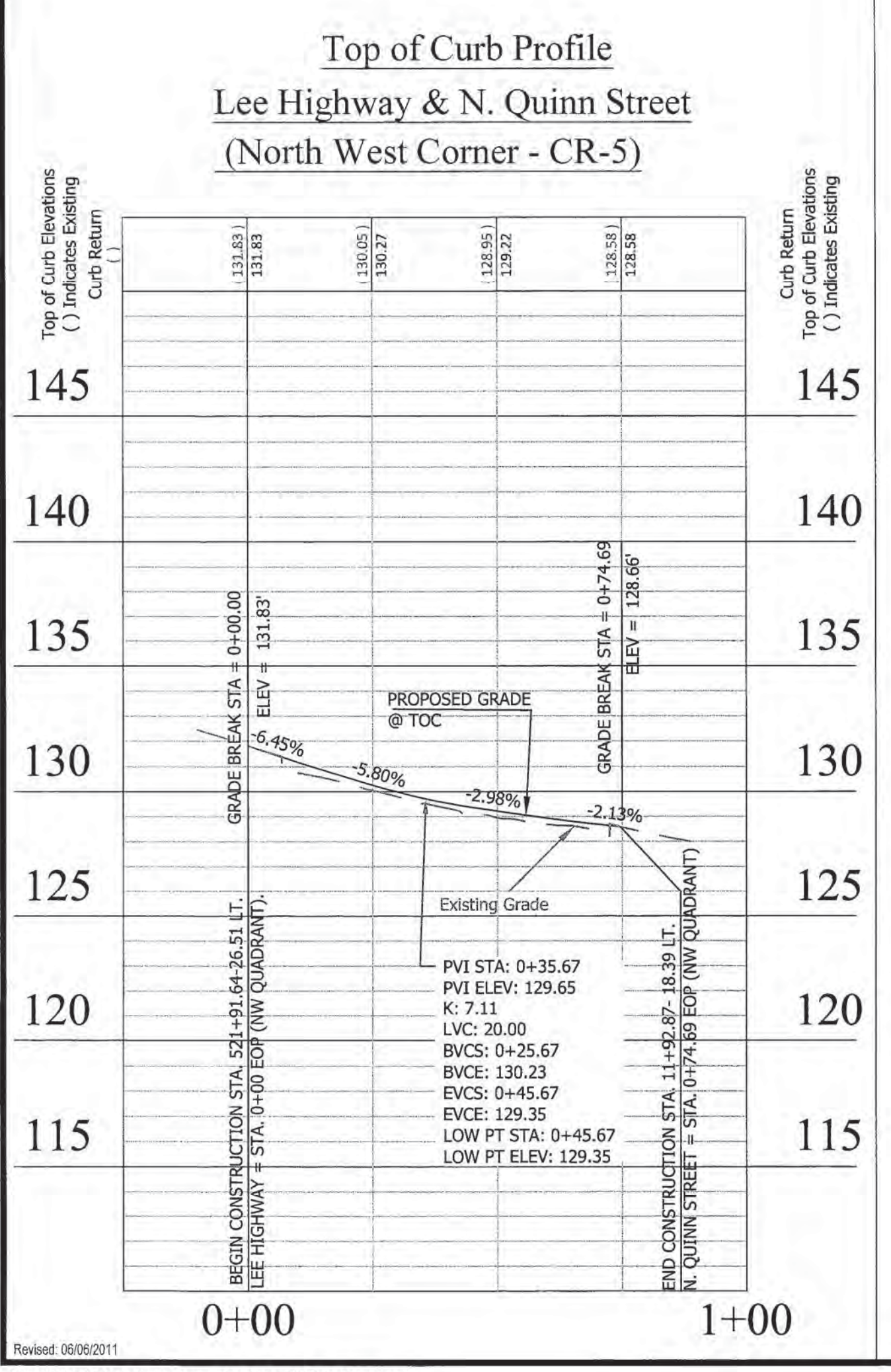
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ARLINGTON VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
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 Fax: 703.228.3606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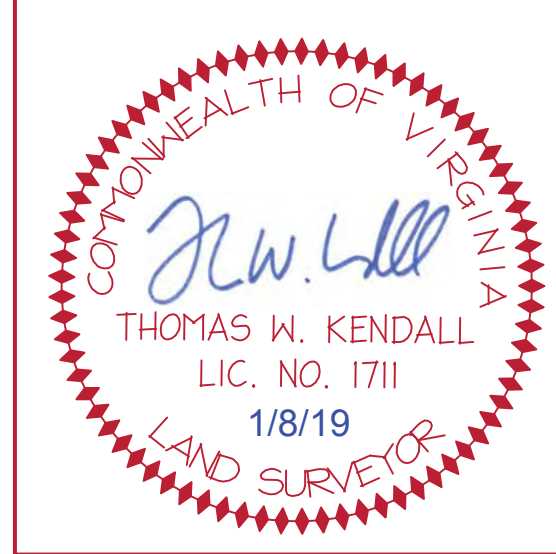


Approvals Date
 Design Team Supervisor 12/08/15
 Engineering Bureau Chief
 Water, Sewer Streets Bureau Chief
 Transportation Director

Revisions Date



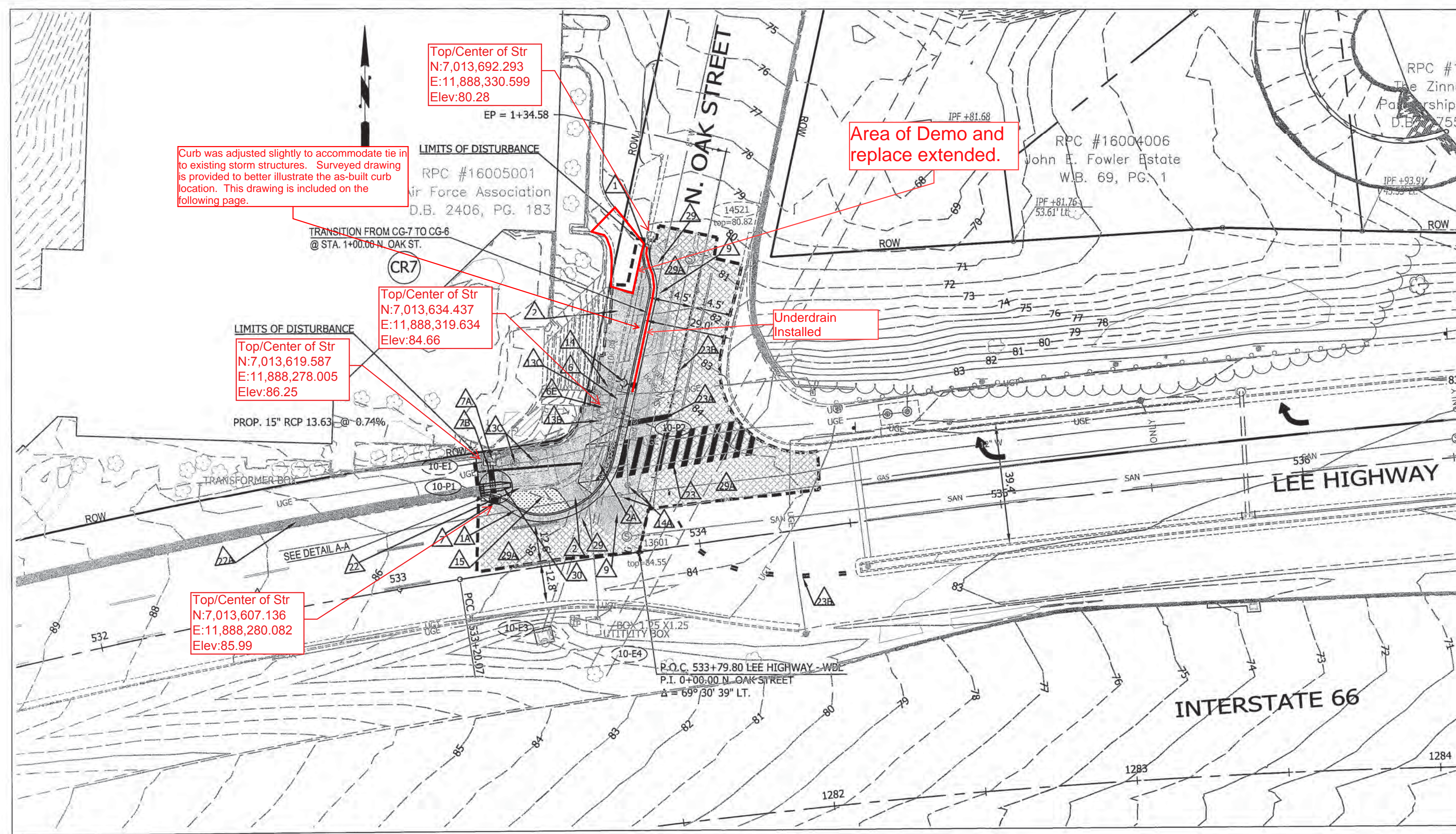
PROTECT TREE DURING CONSTRUCTION OF PROPOSED WORK AS SHOWN. CALL URBAN FORESTER (702-228-6557) PRIOR TO BEGINNING WORK ADJACENT TO TREE. PROCEED WITH WORK AS DIRECTED BY THE ENGINEER IF ANY CONFLICT ARISES WITH PROPOSED WORK.



"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
 Scale: Hor: 1" = 25'
 Vert: 1" = 5'
 GRAPHIC SCALE
 Sheet 9 of 44



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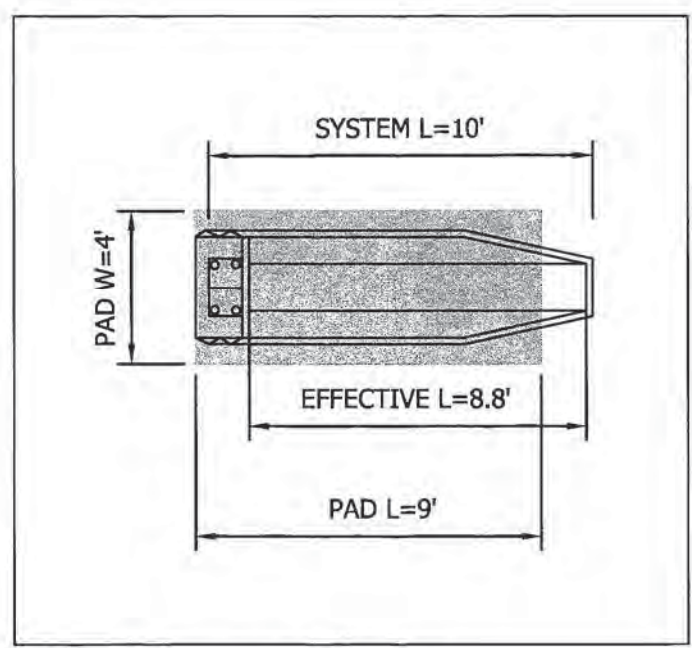
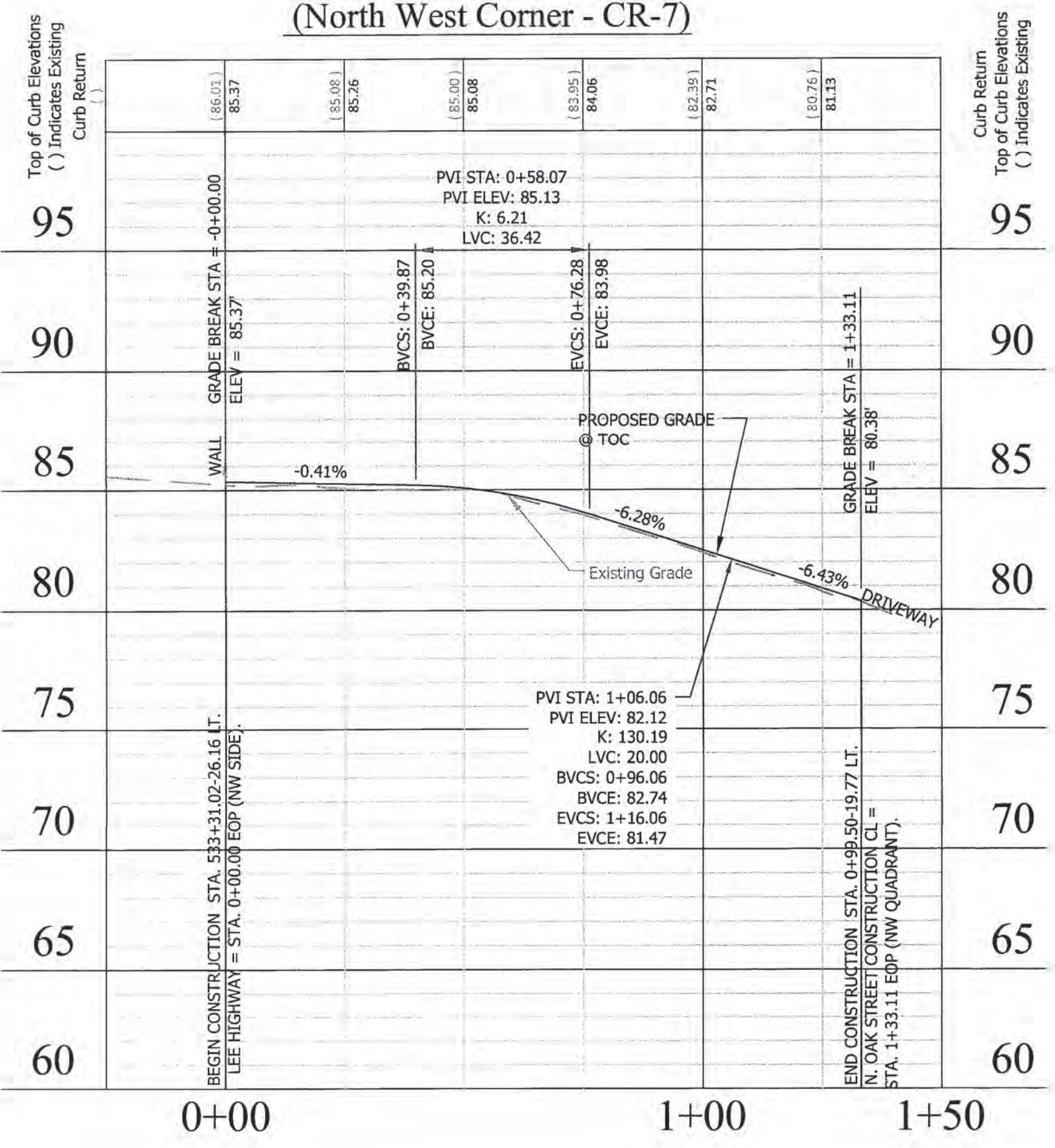
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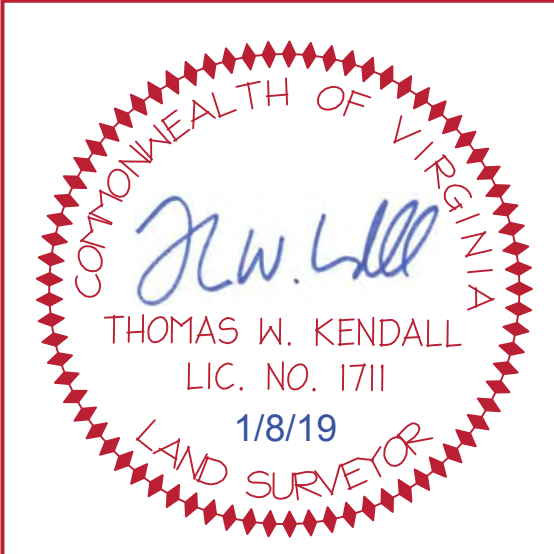
CONSTRUCTION NOTES

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- △19A ASPHALT- MILL AND OVERLAY.
- △20 INSTALL TL-2 QUADGUARD II OR APPROVED VDOT EQUAL.

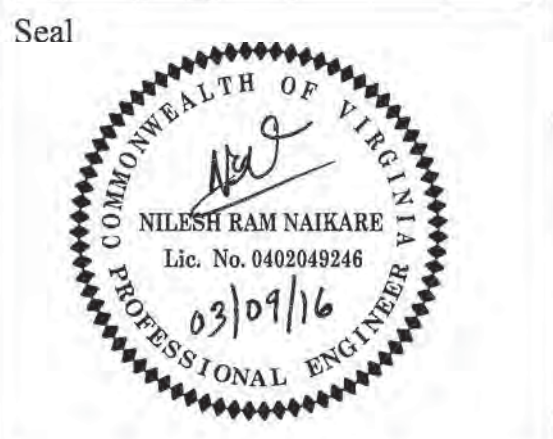
**Top of Curb Profile
Lee Highway & N. Oak Street
(North West Corner - CR-7)**



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



"As-Built" Drawings Prepared by:
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Land Surveying & Land Planning
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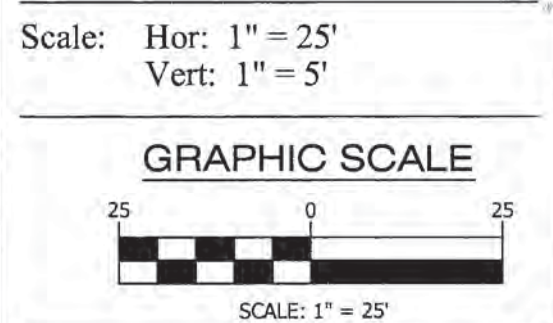


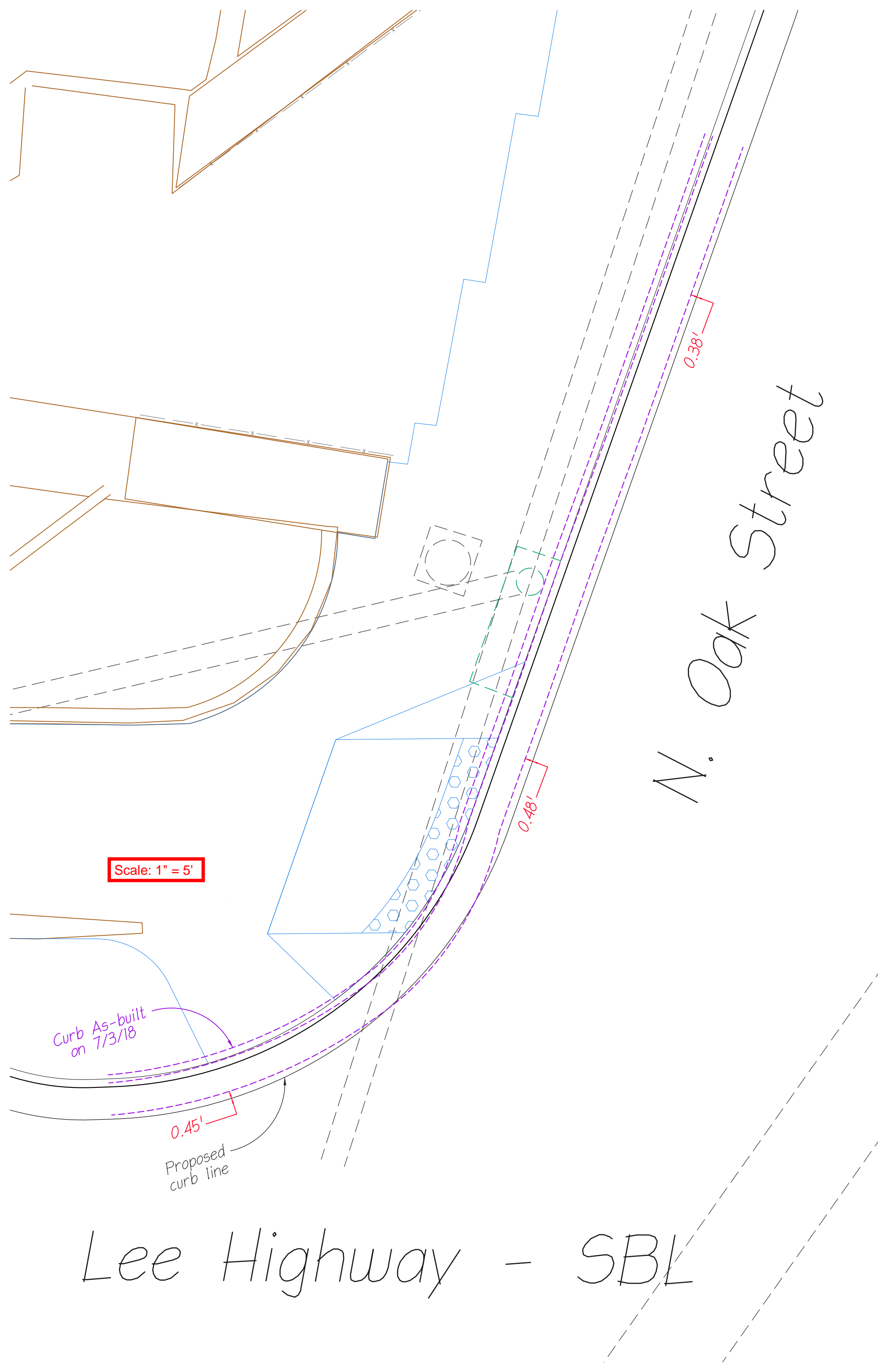
| Approvals | Date |
|-----------------------------------|----------|
| DESIGN TEAM SUPERVISOR | 03/09/16 |
| ENGINEERING BUREAU CHIEF | 03/09/16 |
| WATER, SEWER STREETS BUREAU CHIEF | 3/1/16 |
| TRANSPORTATION DIRECTOR | 3/1/16 |

| Revisions | Date |
|-----------|------|
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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
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Plotted by: Pbanepali





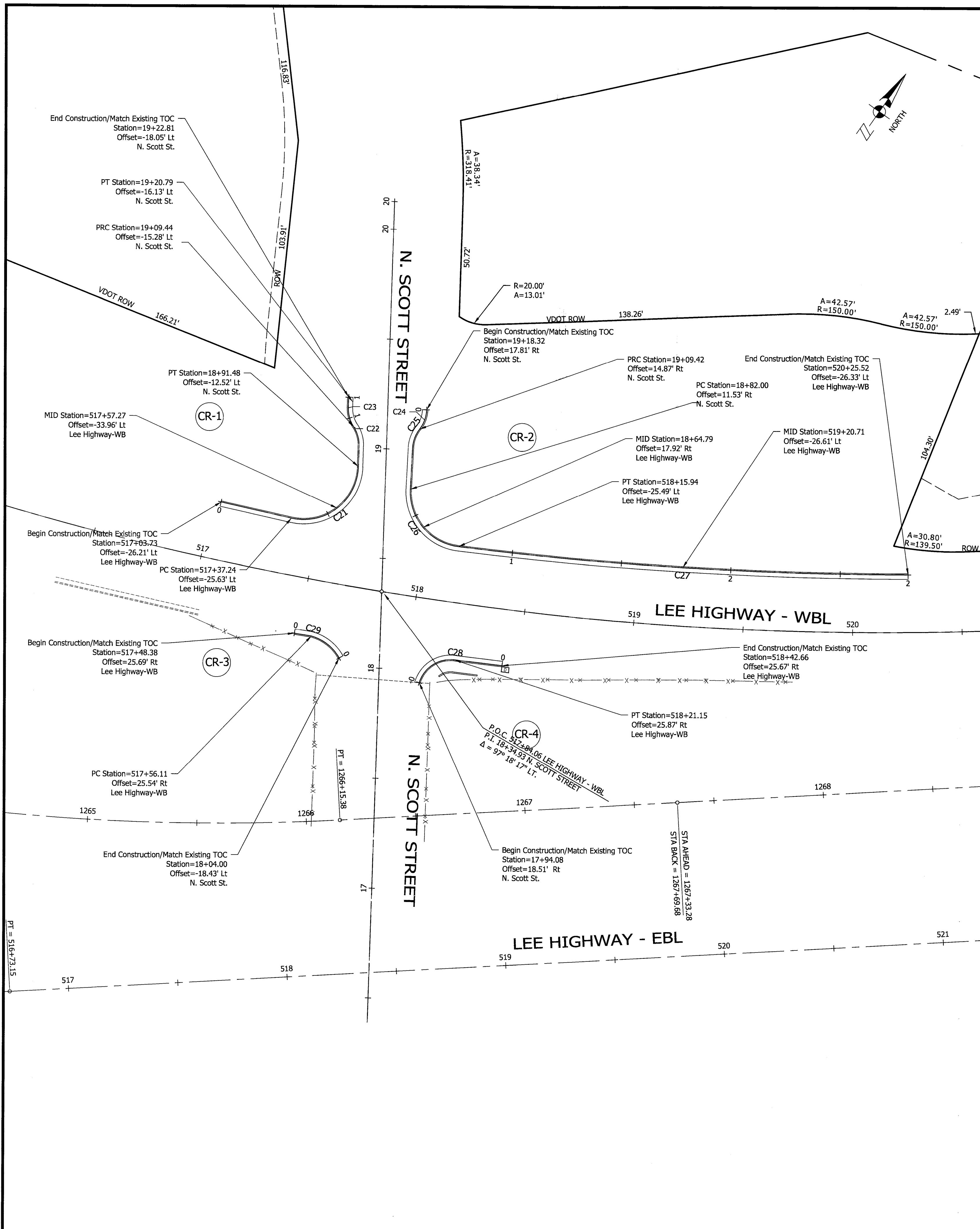
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Curb As-built on 7/3/18

Proposed curb line

N. Oak Street

Lee Highway - SBL



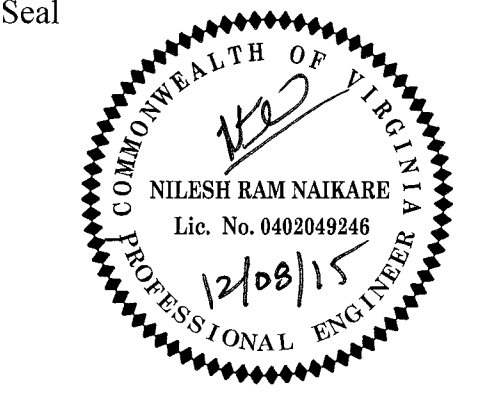
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|---------|----------|-----------------|--------------|-------------------|------------|---------|
| C21 | 25.00' | N 22° 10' 53" E | 38.57' | 100° 57' 23" L.T. | 44.05' | 30.30' |
| C22 | 15.00' | N 45° 55' 59" W | 9.09' | 35° 16' 23" L.T. | 9.23' | 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

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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
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 TRANSPORTATION DIRECTOR

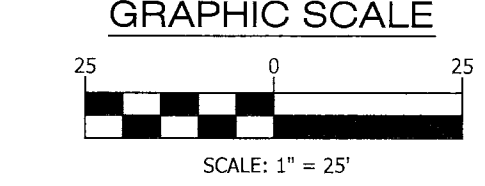
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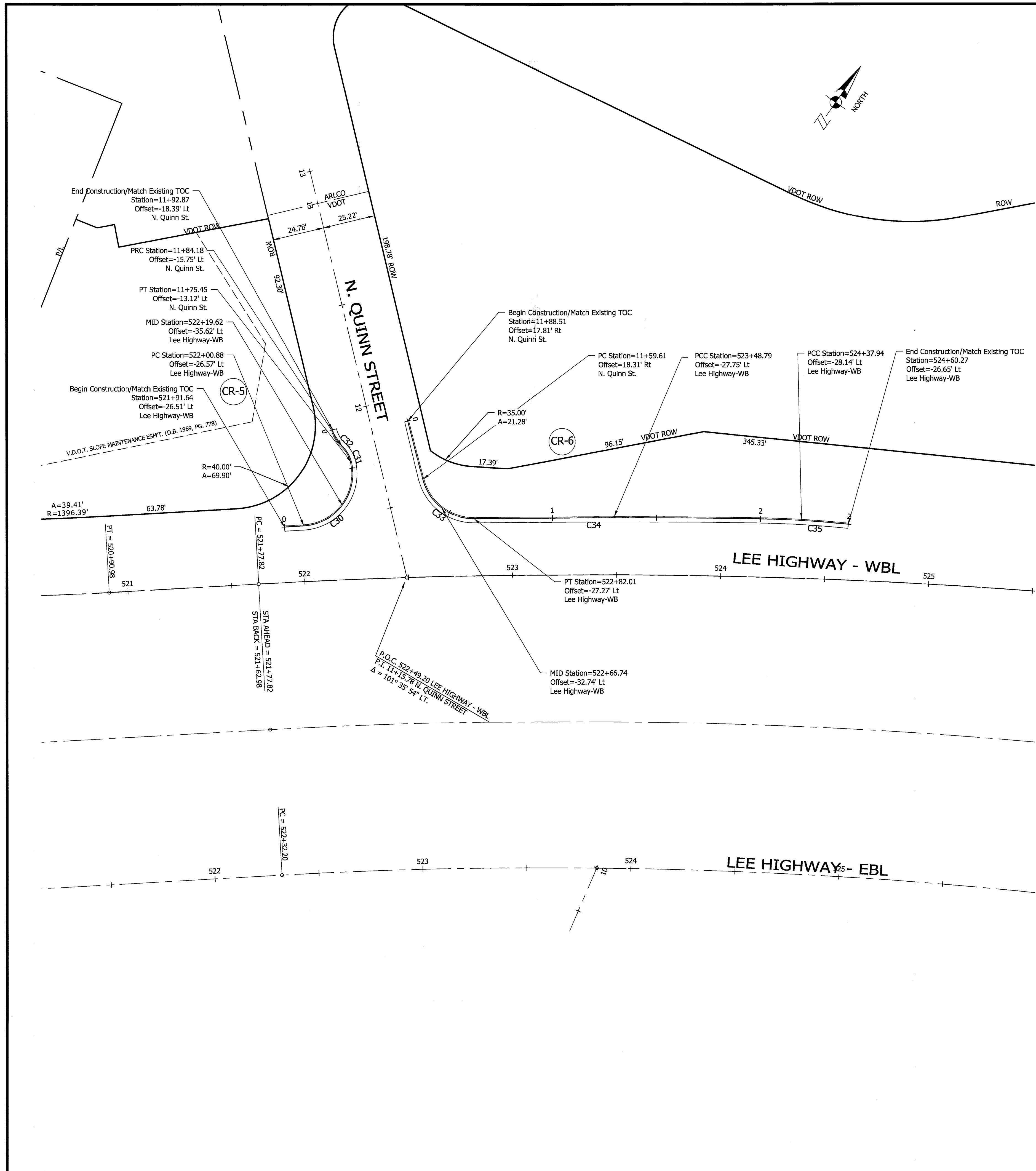
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 Plotted by: Pbanepali

Scale: Hor: 1" = 25'
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Curve Table

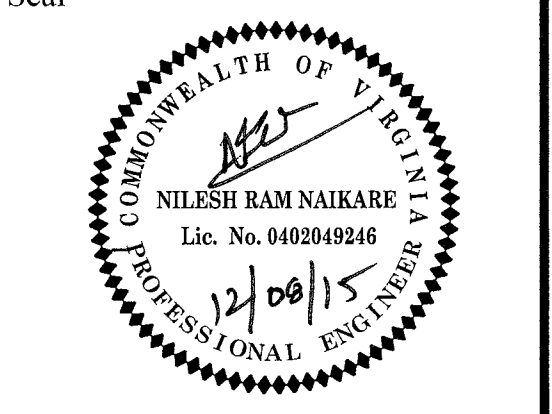
| Curve # | Radius | Chord Bearing | Chord Length | Delta (Δ) | Arc Length | Tangent |
|---------|----------|-----------------|--------------|------------------|------------|---------|
| C30 | 25.00' | N 7° 04' 56" E | 38.10' | 99° 16' 04" L.T. | 43.31' | 29.41' |
| C31 | 14.99' | N 60° 12' 05" W | 9.12' | 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' |



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

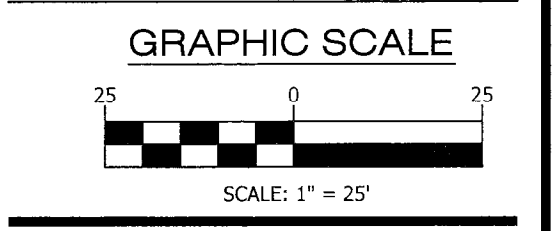
Revisions Date

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

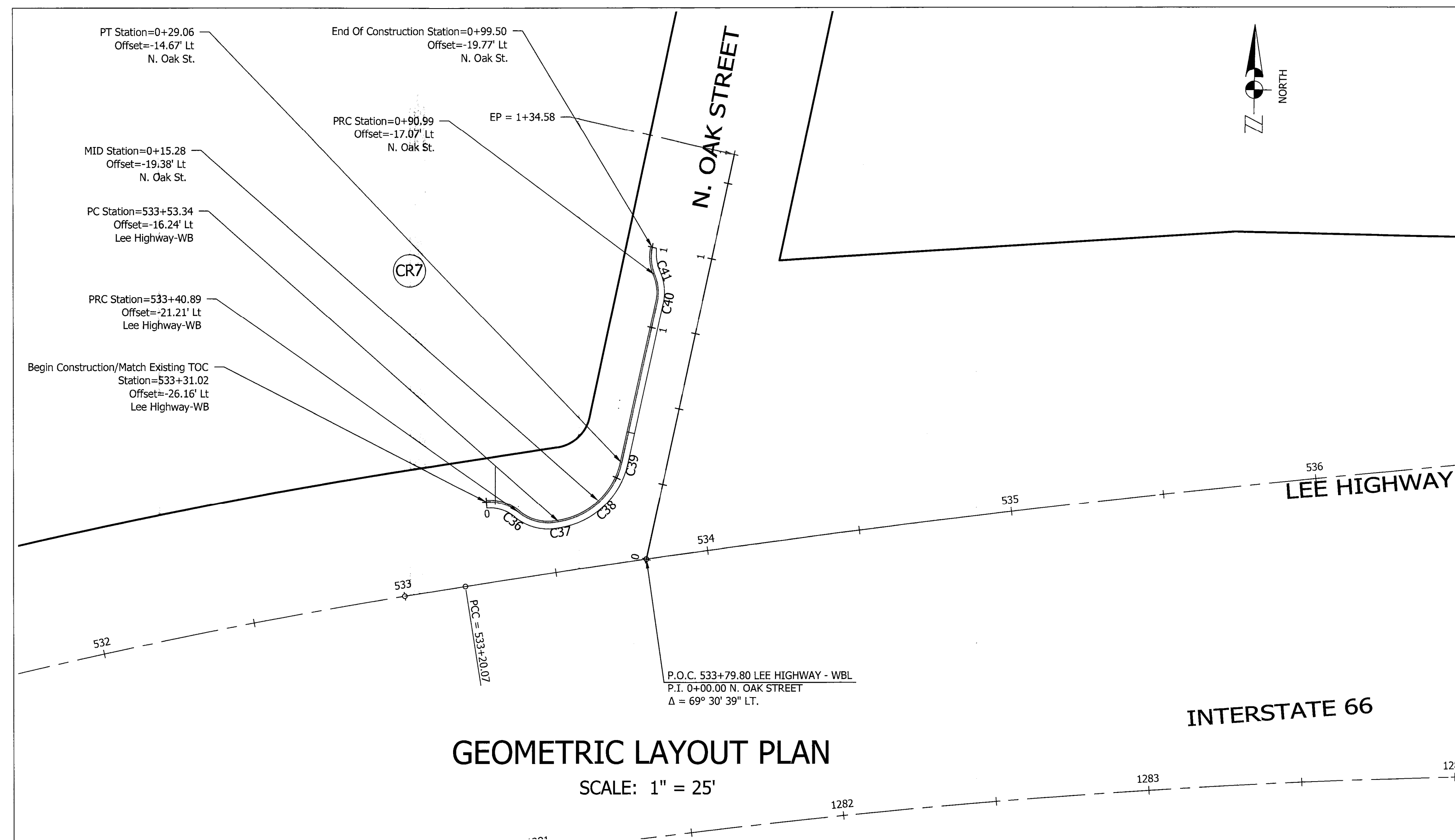
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 Drawn: PB
 Checked: NN
 Miss Utility Transmittal #: 5203-D

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

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

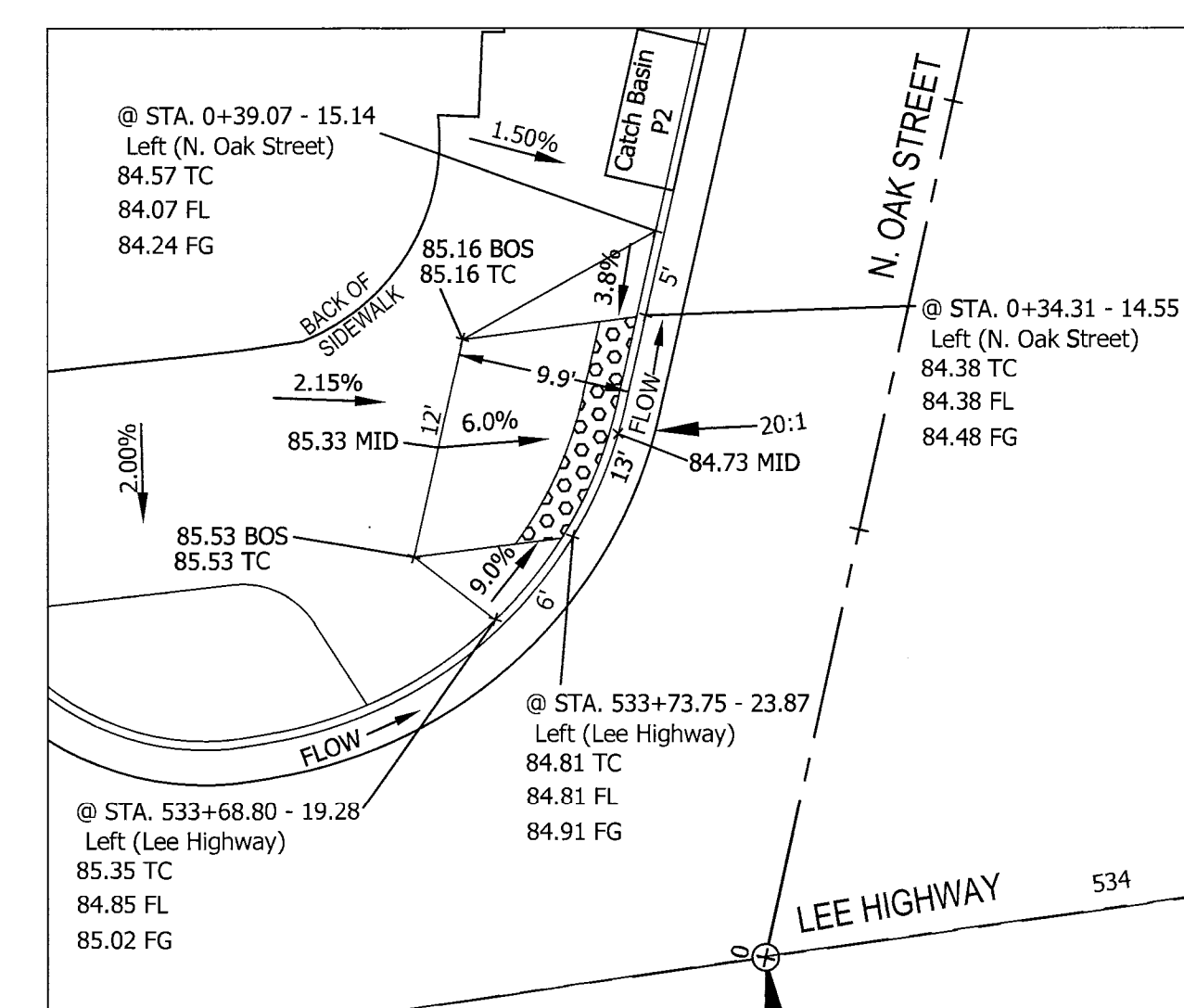


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 12 of 44



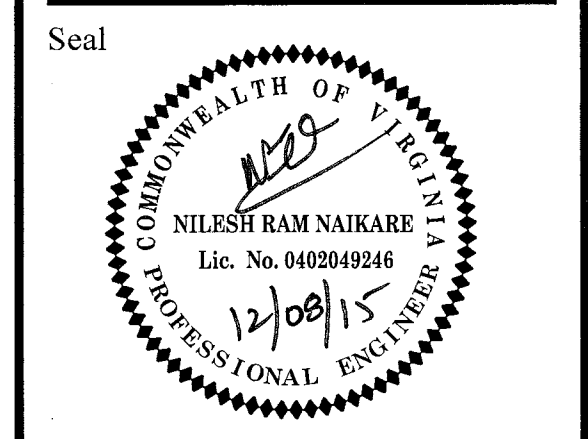
GEOMETRIC LAYOUT PLAN
SCALE: 1" = 25'

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



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

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Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
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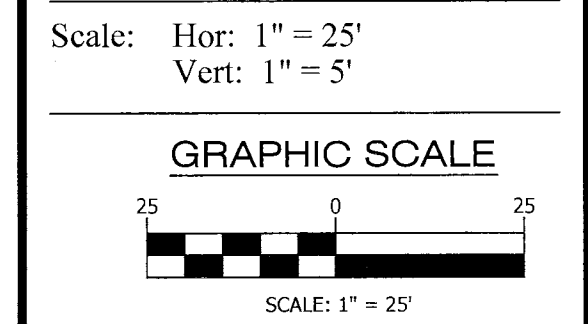


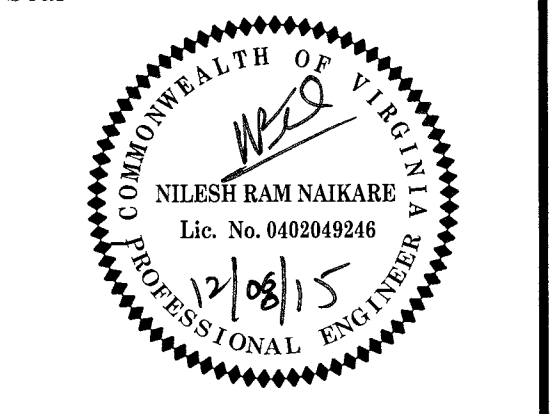
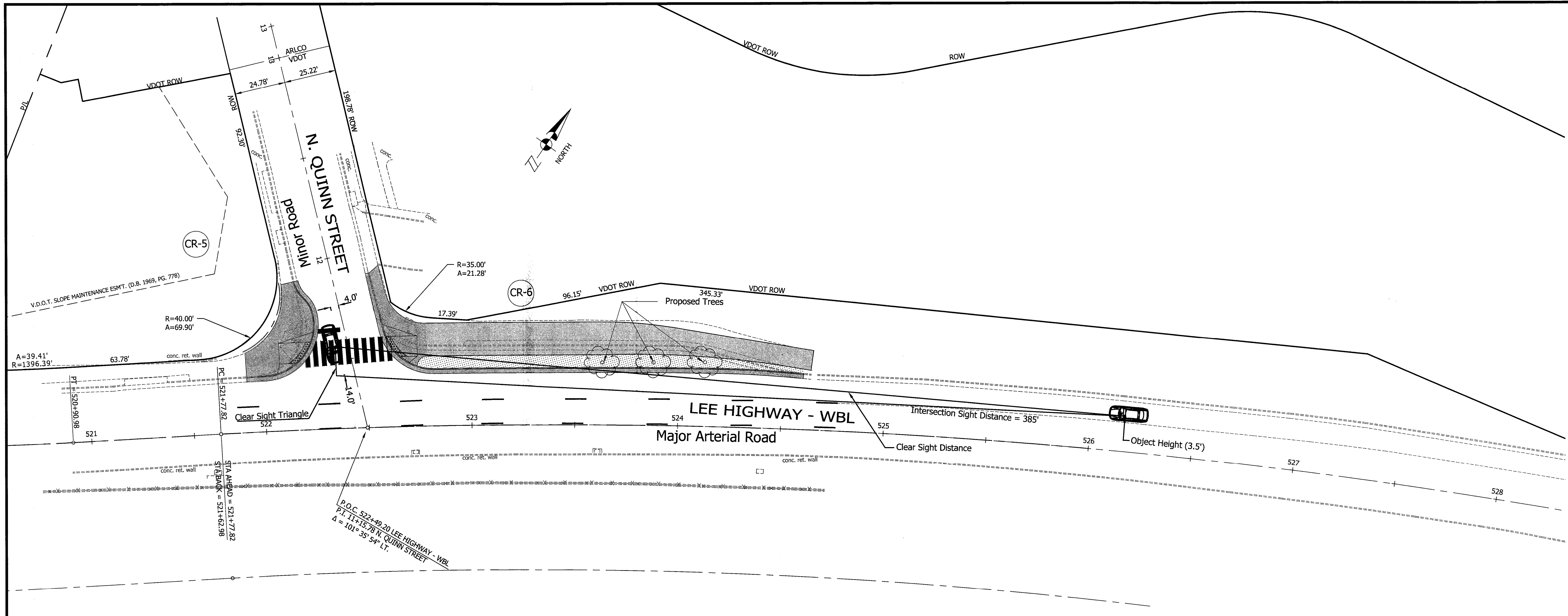
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| <i>MDO</i> | 12/08/15 |
| <i>[Signature]</i> | 12/08/15 |
| <i>[Signature]</i> | 12/15/15 |
| <i>[Signature]</i> | 12/08/15 |

| Revisions | Date |
|-----------|------|
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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
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Plotted: September 17, 2015
Plotted by: Pbanepalli

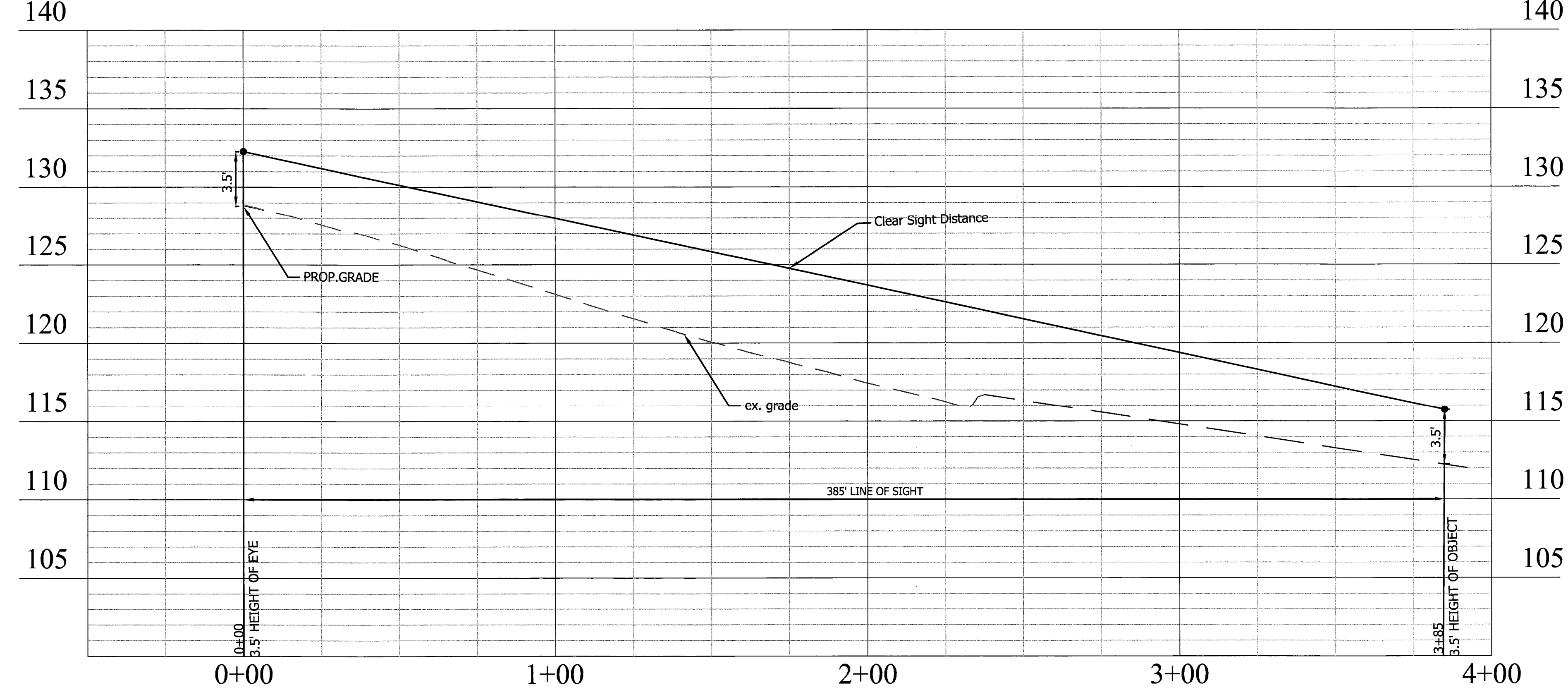




| Approvals | Date |
|----------------------------------|----------|
| DESIGN TEAM SUPERVISOR | 12/08/15 |
| ENGINEERING BUREAU CHIEF | 12/08/15 |
| WATER/SEWER STREETS BUREAU CHIEF | 12/15/15 |
| TRANSPORTATION DIRECTOR | 12/15/15 |

| Revisions | Date |
|-----------|------|
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PROFILE - SIGHT DISTANCE



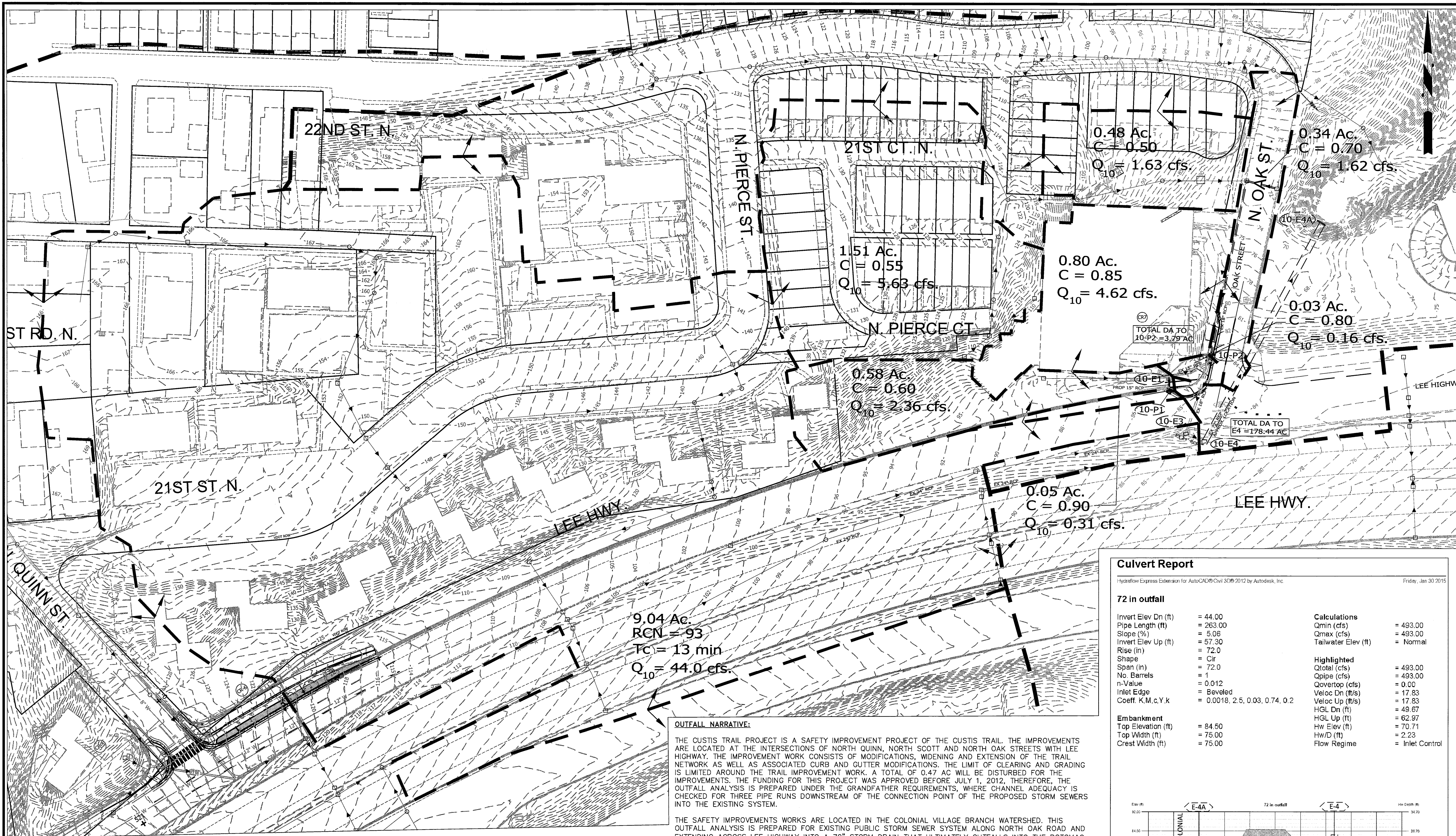
Project Name and Location
Custis Trail-Safety Improvements
Sight Distance - N. Quinn Street
Safety Improvements Project
From N. Oak Street
To N. Scott Street
313.43520.0319.0000

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

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

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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.

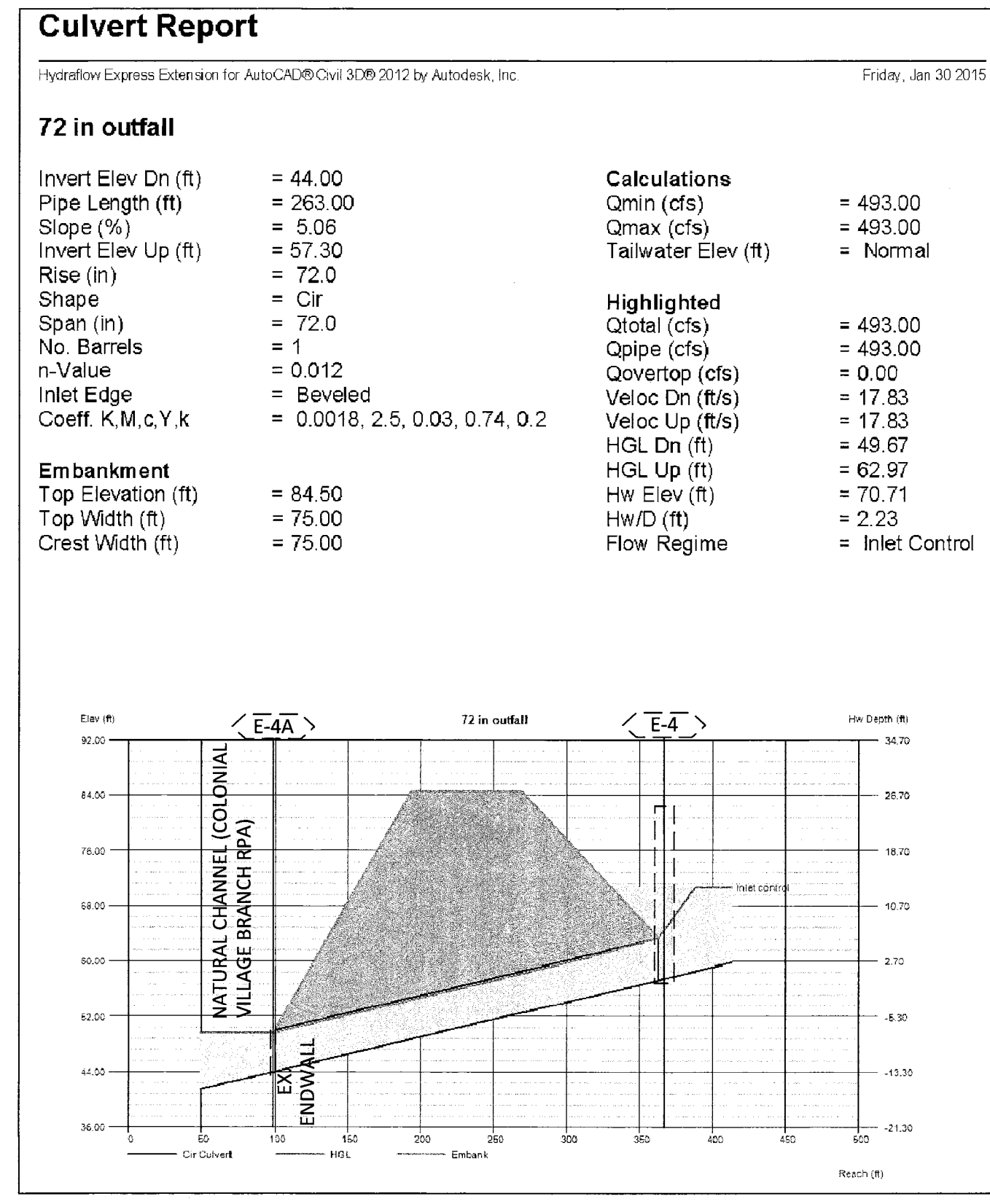
THE PROJECT PROPOSES NEW STORM STRUCTURE 10-P1 WITHIN THE ROW OF LEE HIGHWAY, THIS NEW STRUCTURE TIES INTO AN EXISTING STORM STRUCTURE 10-E1 WITH A 15" RCP. FROM THIS POINT ON RUNOFF IS CONVEYED BY A 15" AND 18" PIPES LEADING INTO THE MEDIAN OF LEE HIGHWAY (STRUCTURE 10-E3) WHERE PIPE SIZE CHANGES TO 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.

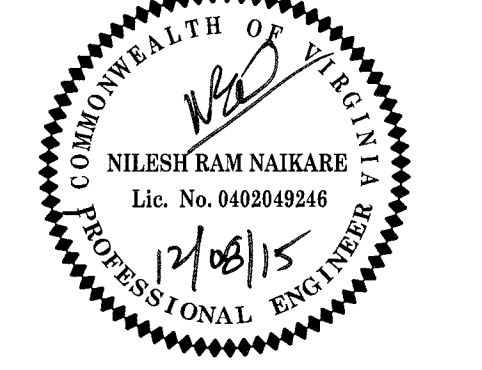
THE OUTFALL ANALYSIS BEGINS AT EXISTING STRUCTURE 10-E4. THE 10 YEAR RUNOFF CONVERGING TO THIS STRUCTURE IS ESTIMATED USING TR-55. THE HEAD AT THE INLET OF THE 72" PIPE AT THIS STRUCTURE IS COMPUTED AND THE ELEVATION THUS OBTAINED IS USED AS A STARTING ELEVATION TO COMPUTE THE HGL OF THE EXISTING 15",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



DESIGN TEAM SUPERVISOR 12/08/15

ENGINEERING BUREAU CHIEF

WATER SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

Designed: ss

Drawn: ss

Checked: NN

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Filename: Stormdrainage Drainage Area Map.dwg

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Plotted: September 17, 2015

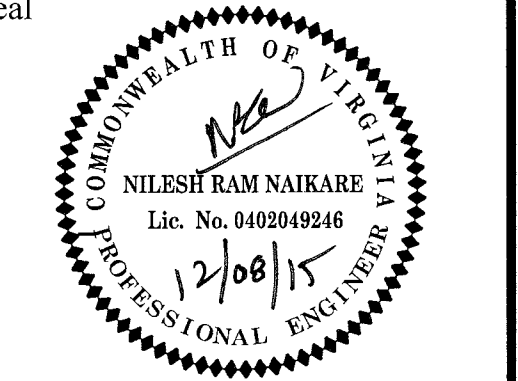
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Scale: Hor: 1" = 50'

Sheet

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Seal



Approvals Date

DESIGN TEAM SUPERVISOR 12/08/15

ENGINEERING BUREAU CHIEF 12/08/15

ENGINEERING BUREAU CHIEF 12/08/15

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

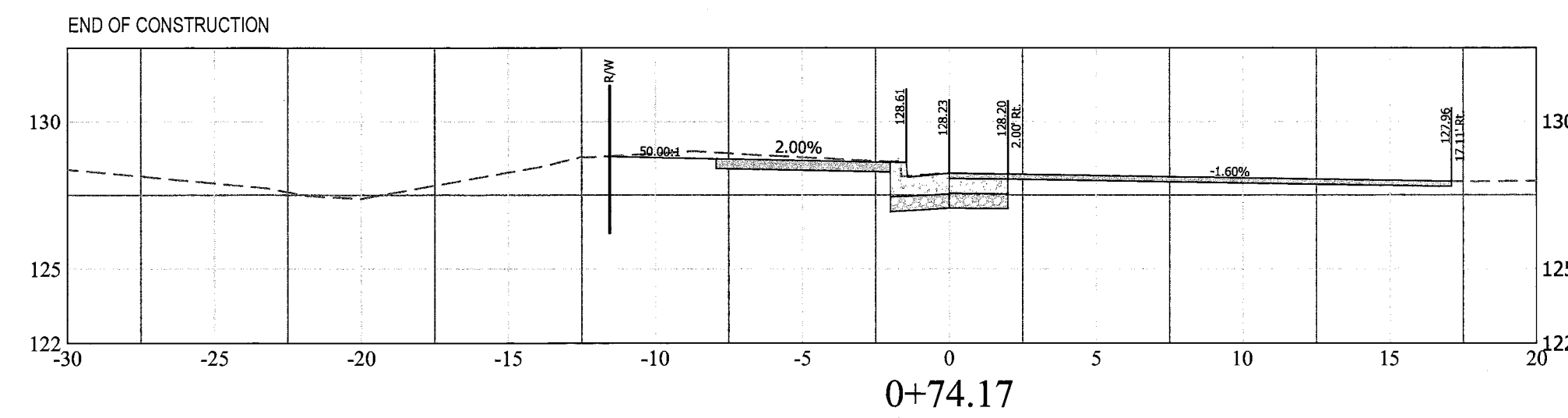
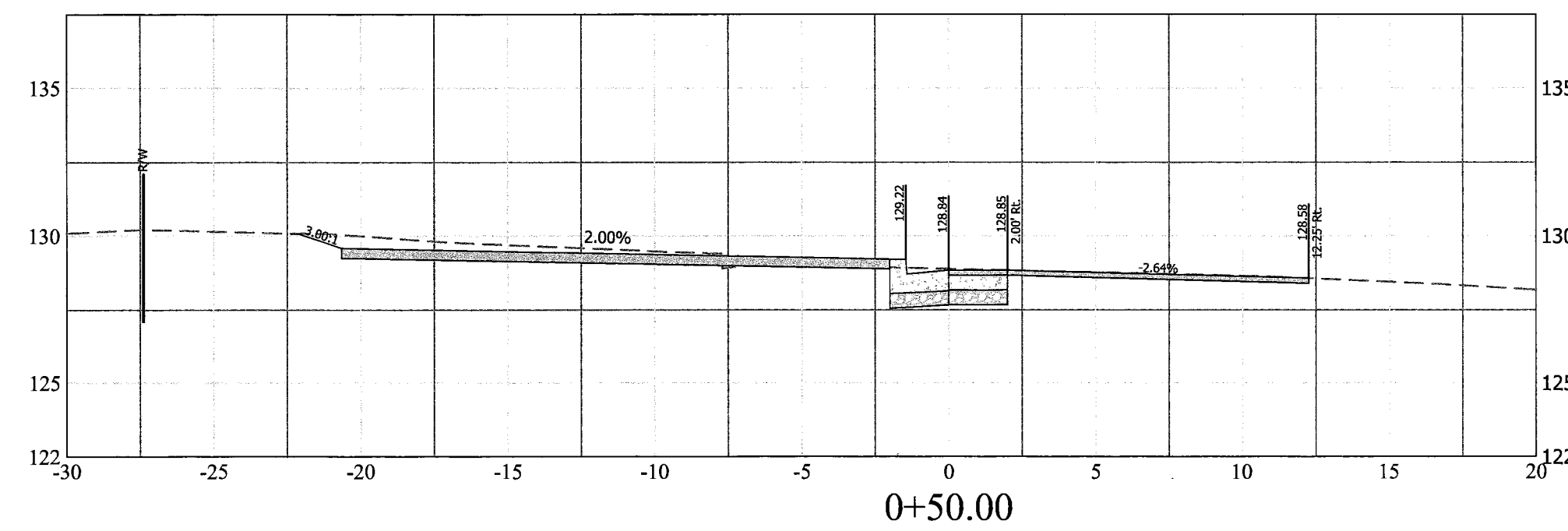
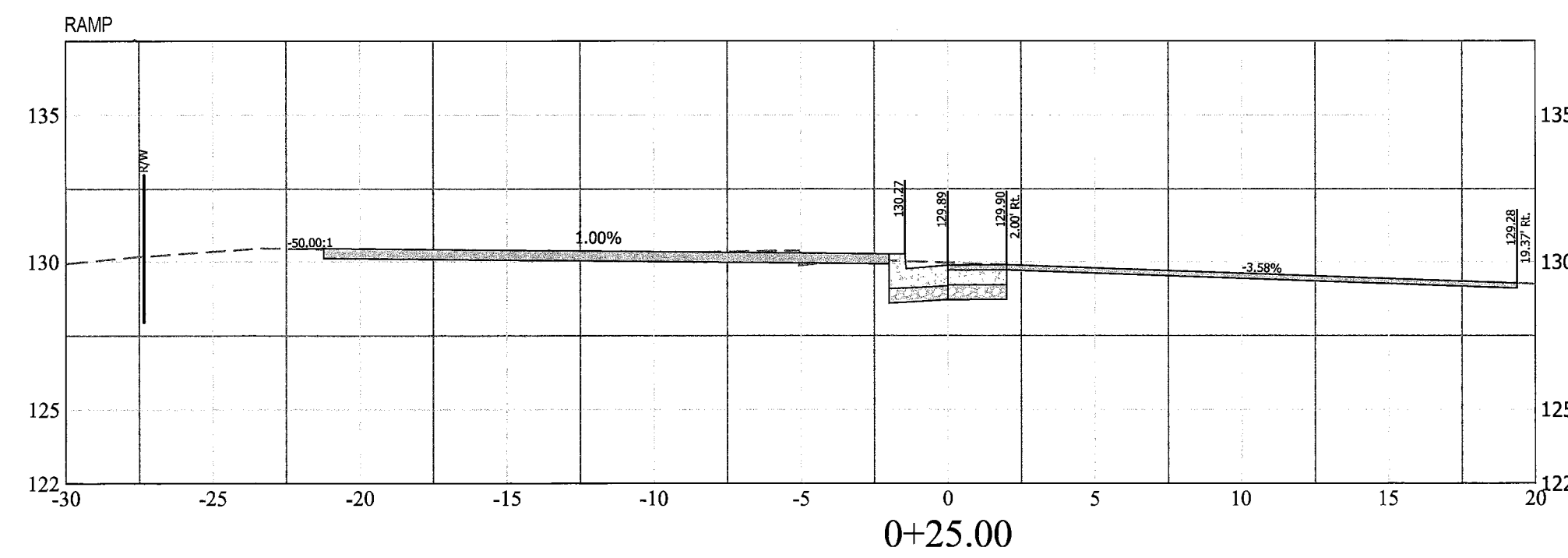
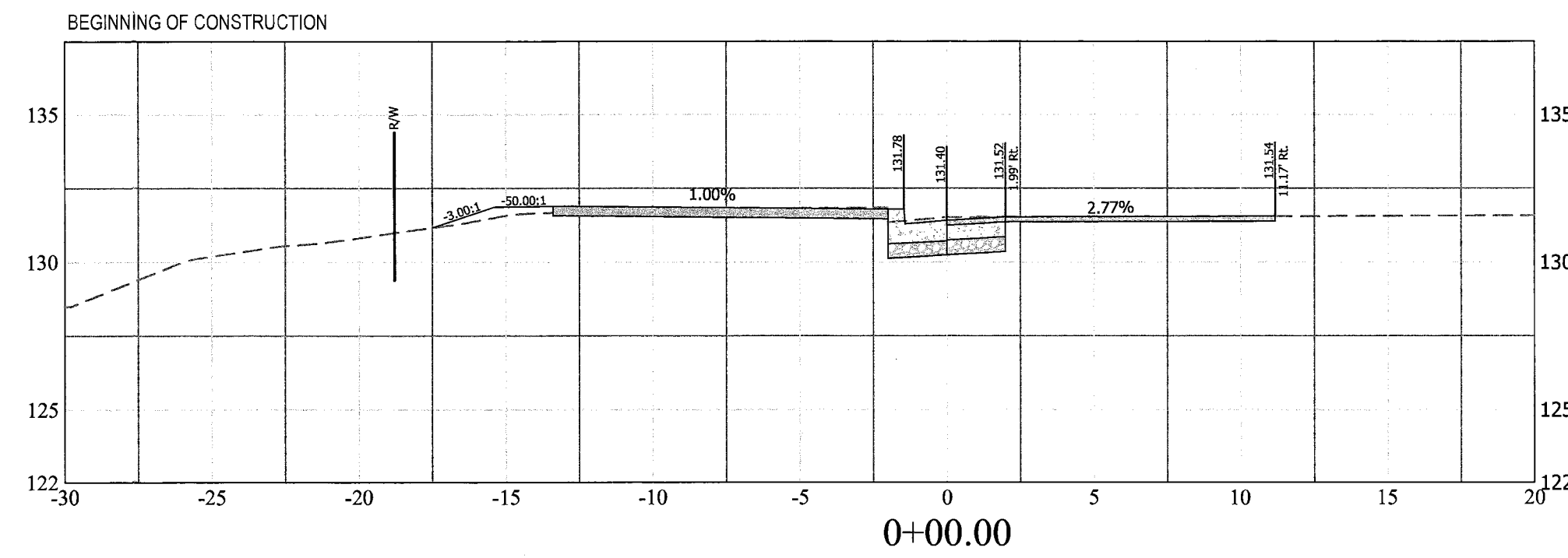
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Revisions Date



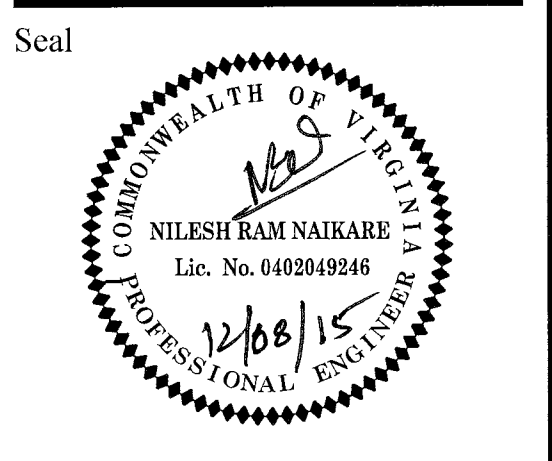
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Project Name and Location
Custis Trail-Safety Improvements
X-Sections N. Quinn Street (CR-5 NW Quadrant)
Safety Improvements Project
From N. Oak Street
To N. Scott Street
313-43520.806K.0319.0000

Designed: PB
Drawn: PB
Checked: NN
Miss Utility Transmittal #: 5203-1D

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Plotted: September 17, 2015
Plotted by: Pbanepali

Scale:
Vert: 1" = 5'



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

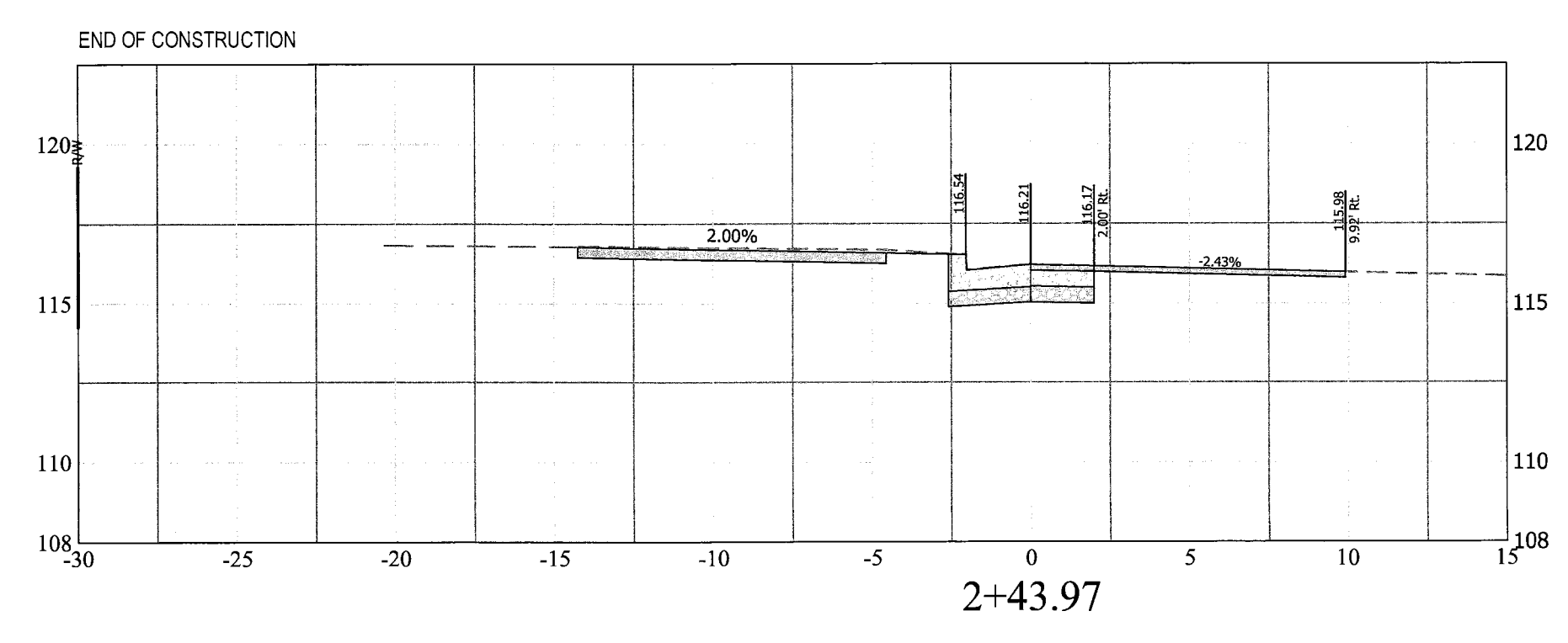
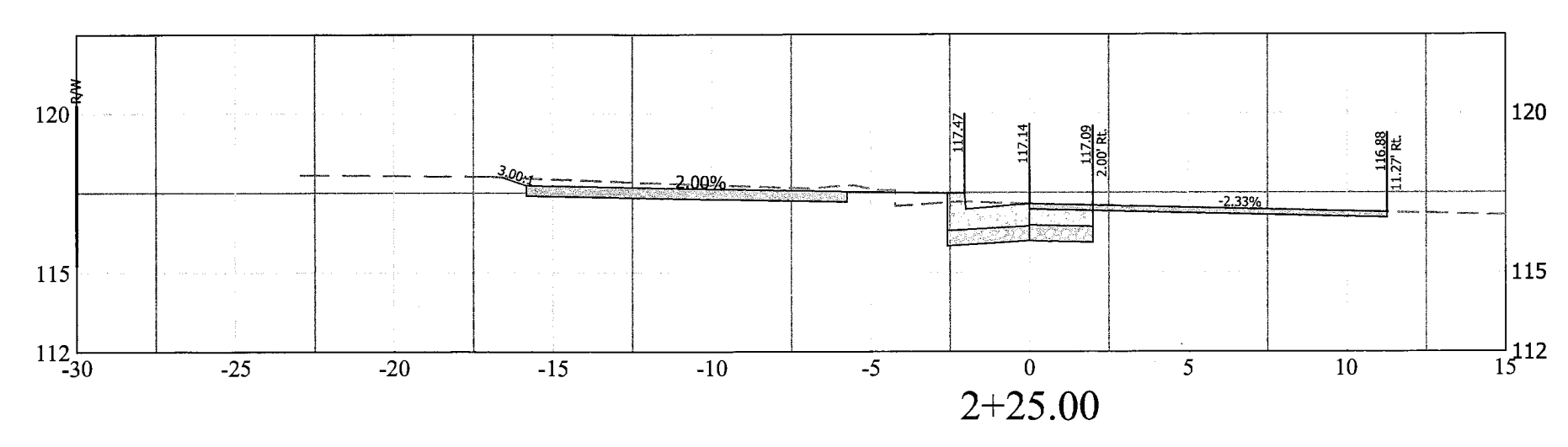
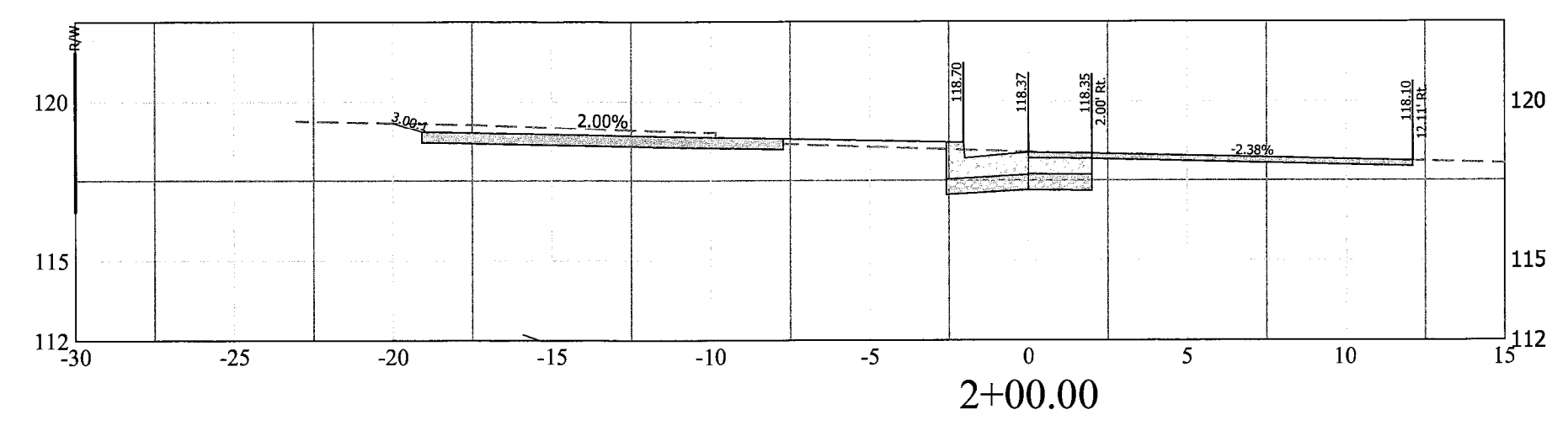
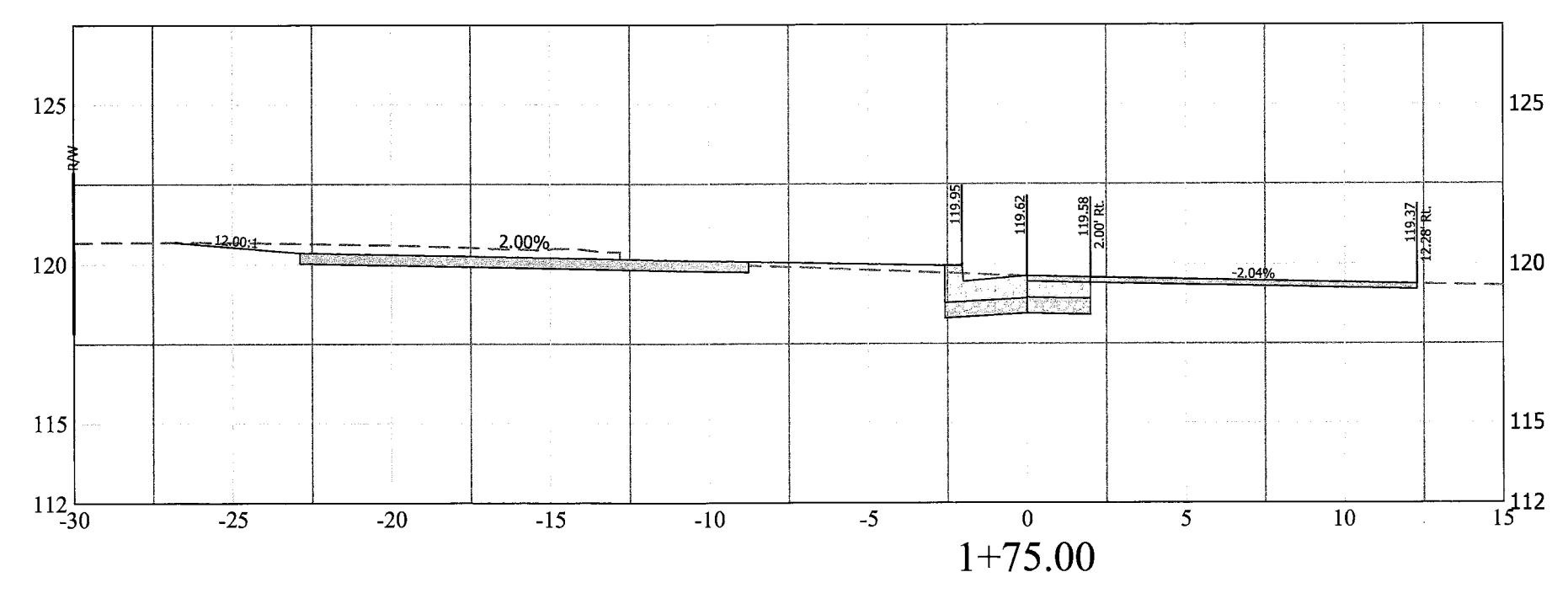
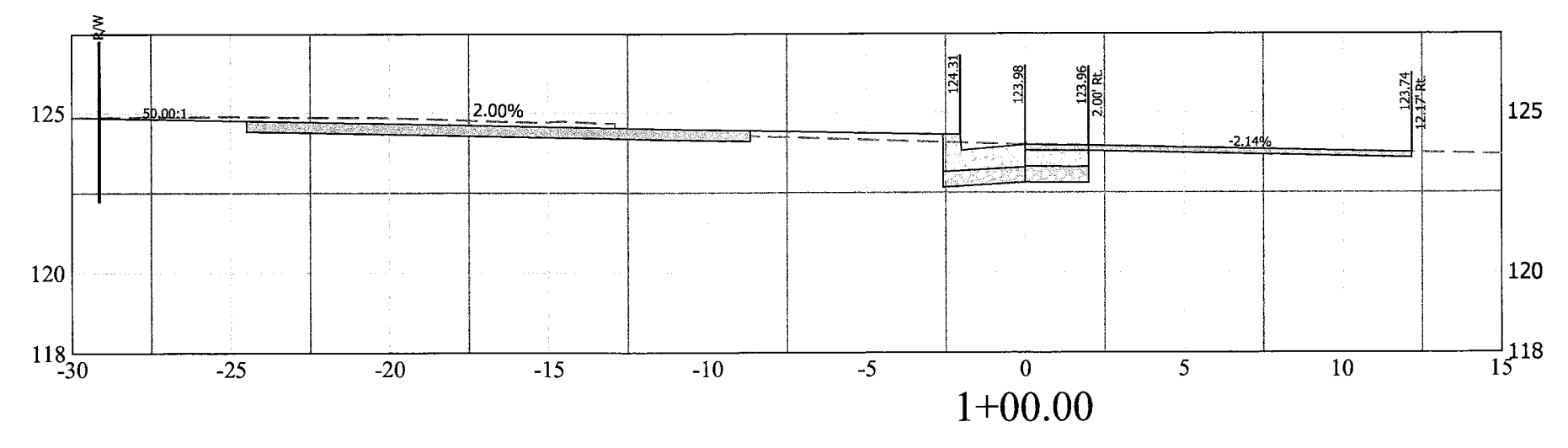
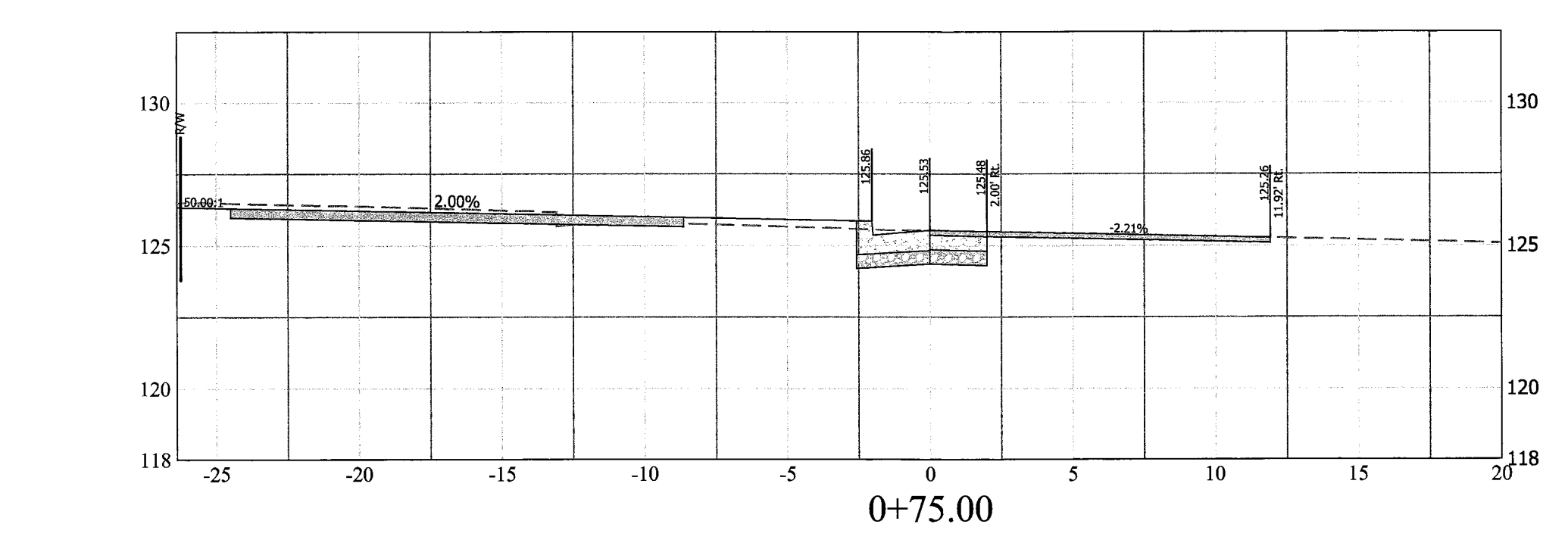
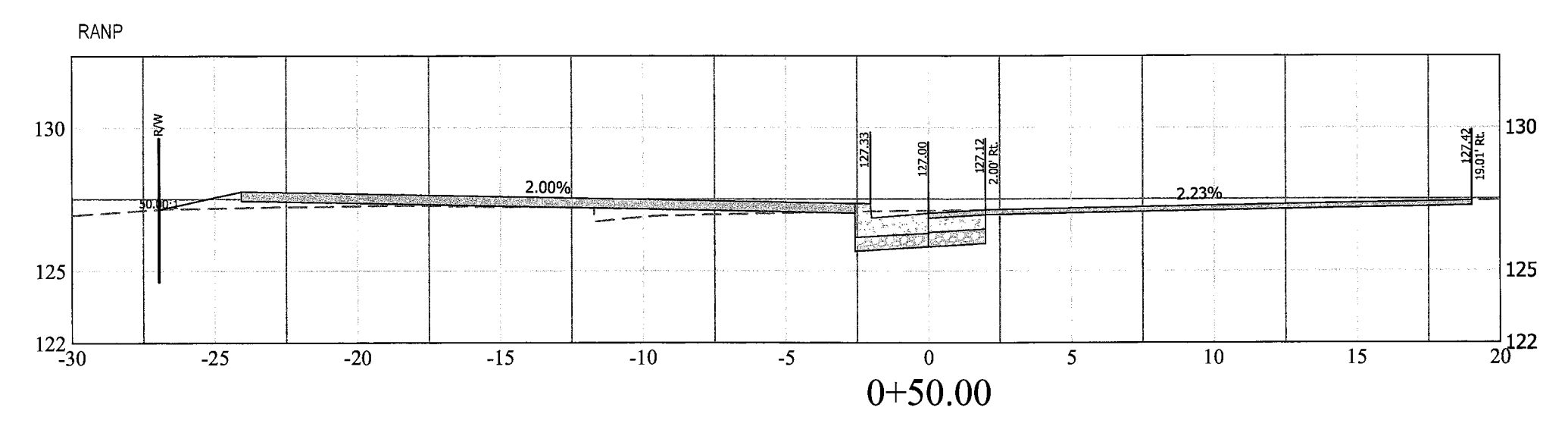
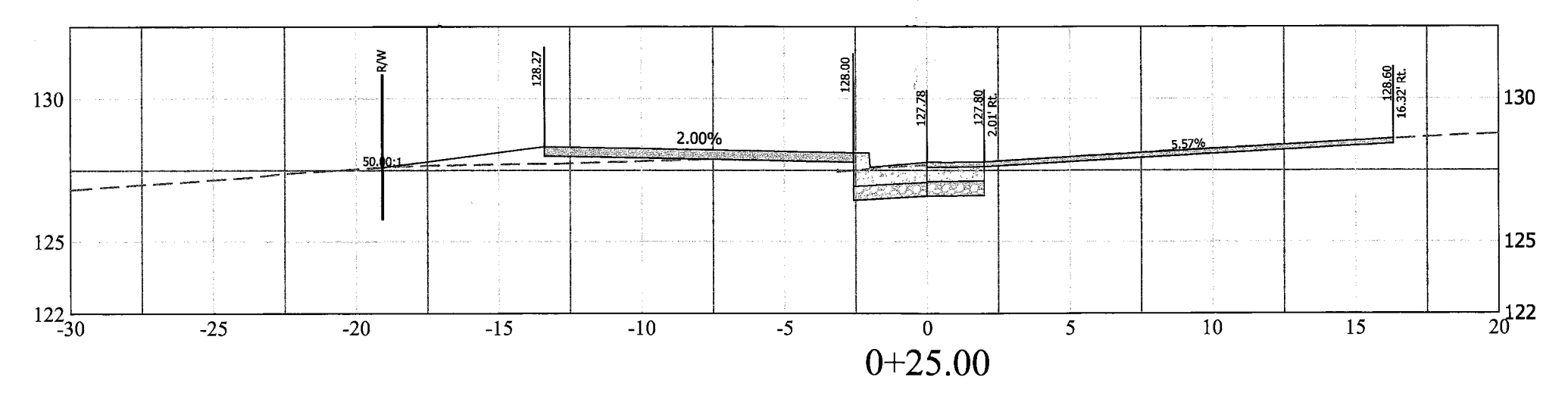
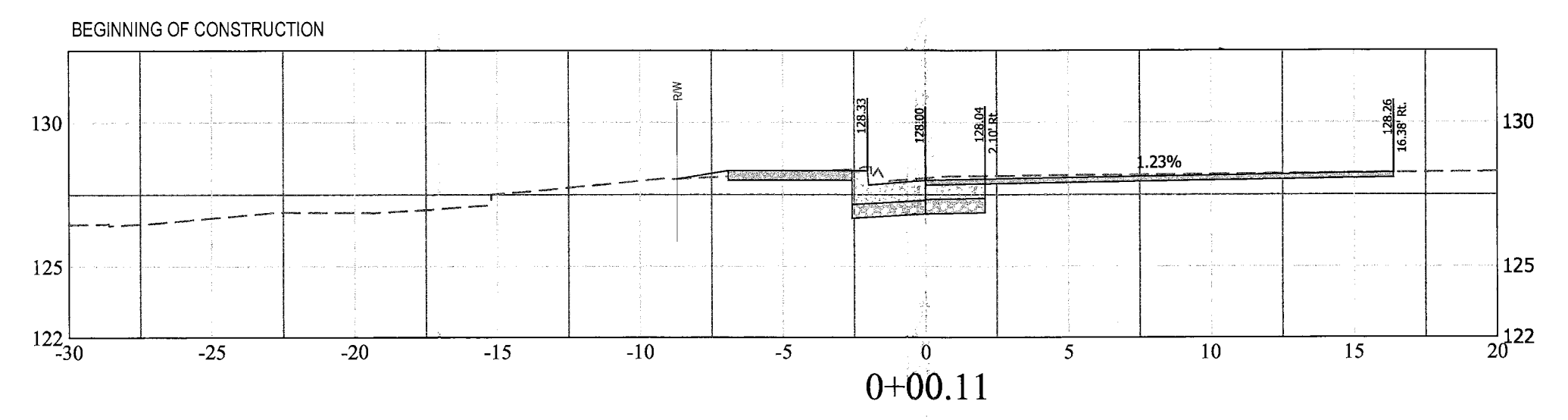
Revisions Date

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

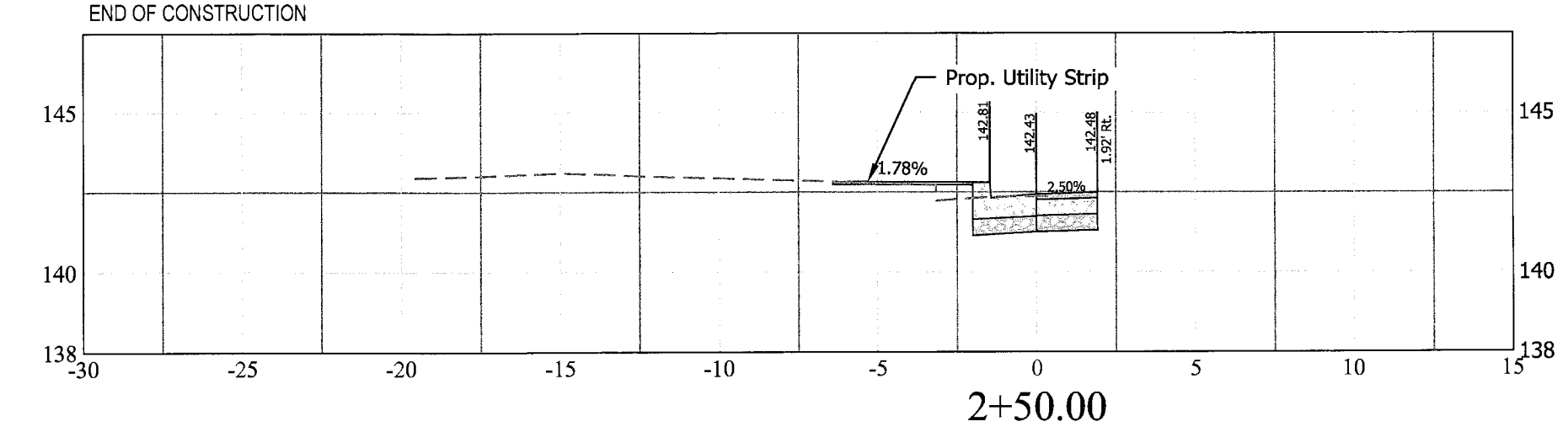
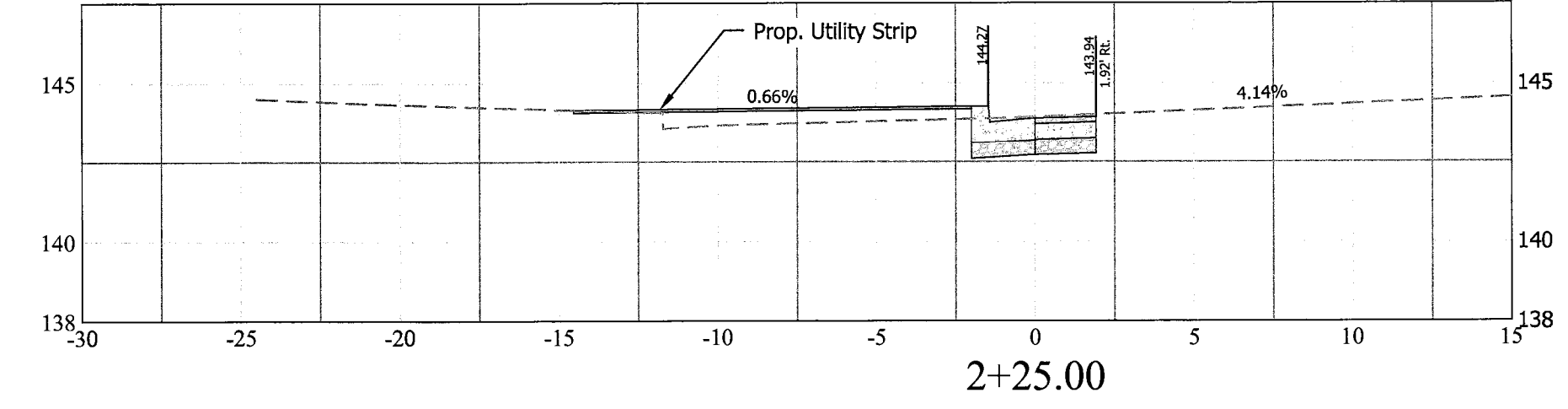
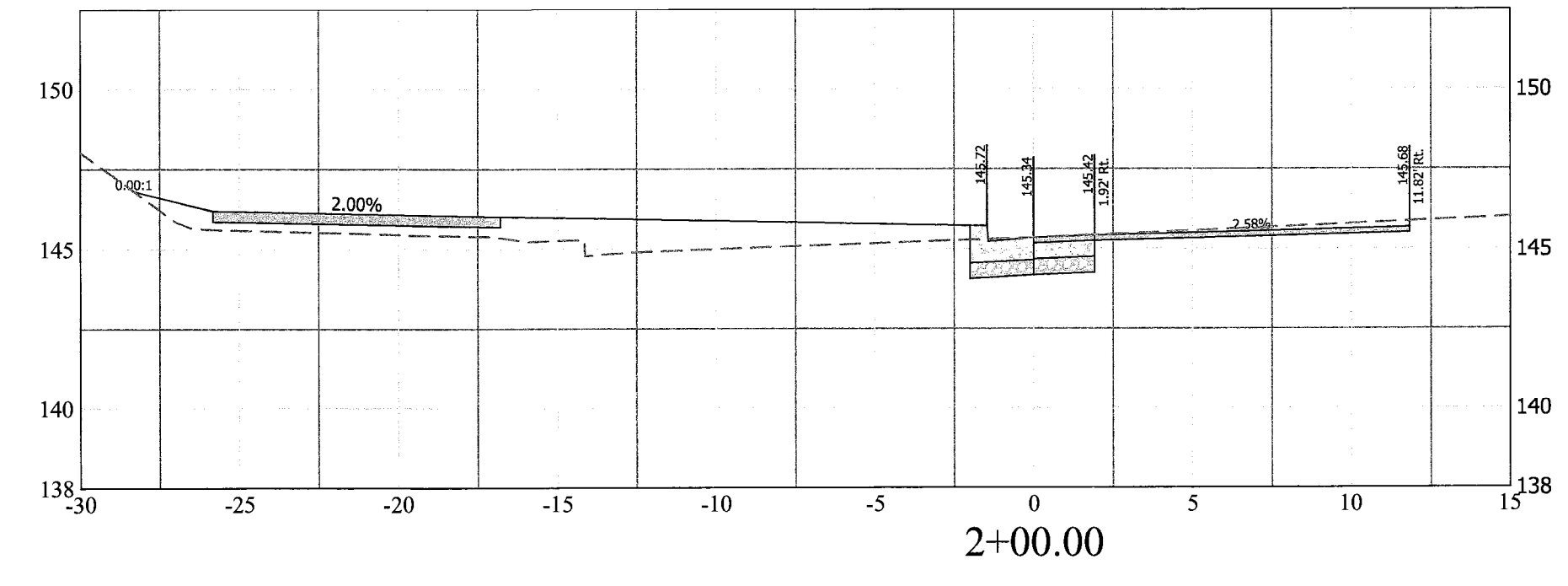
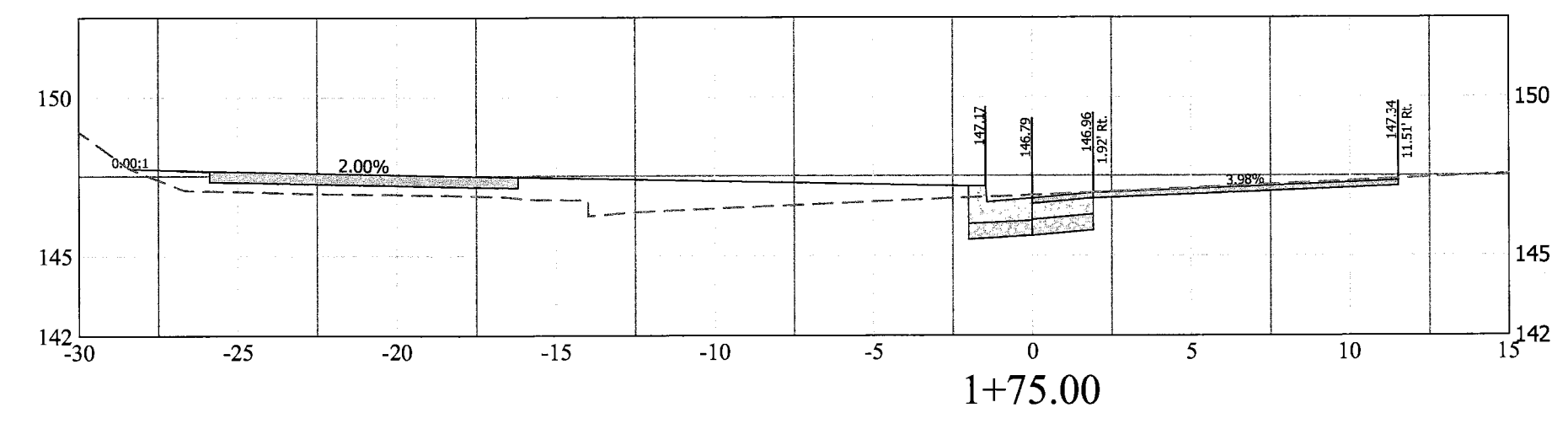
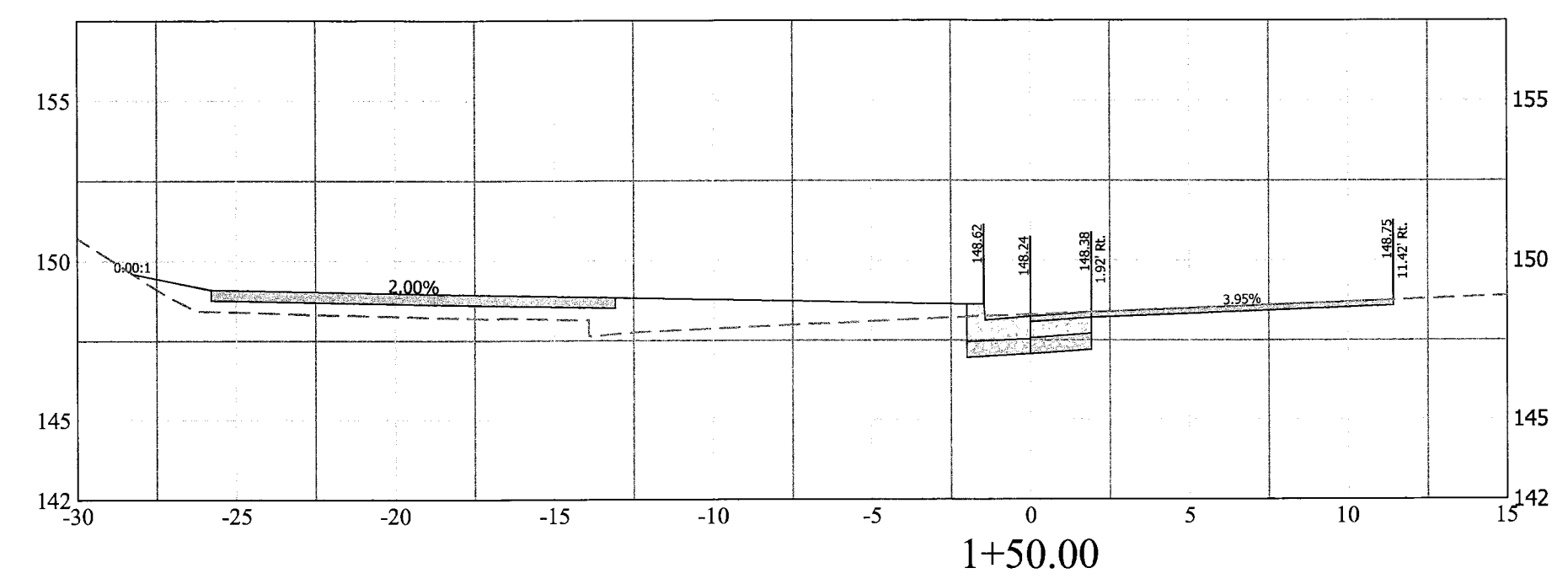
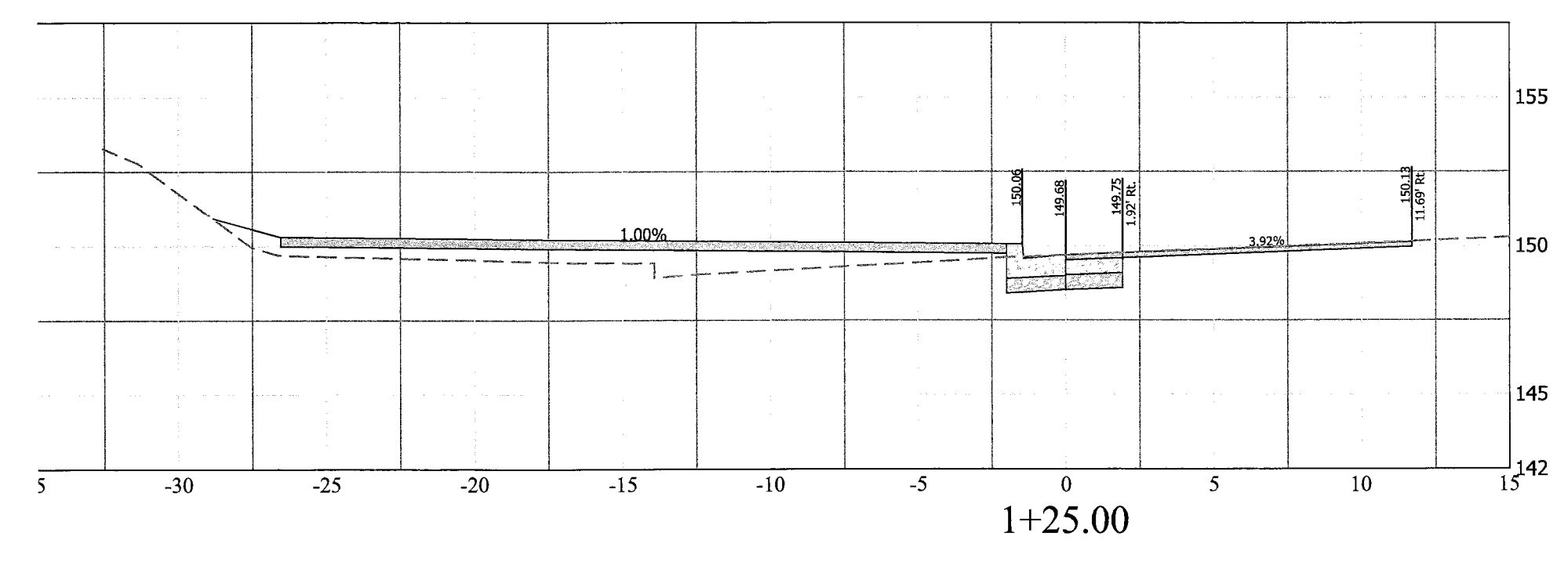
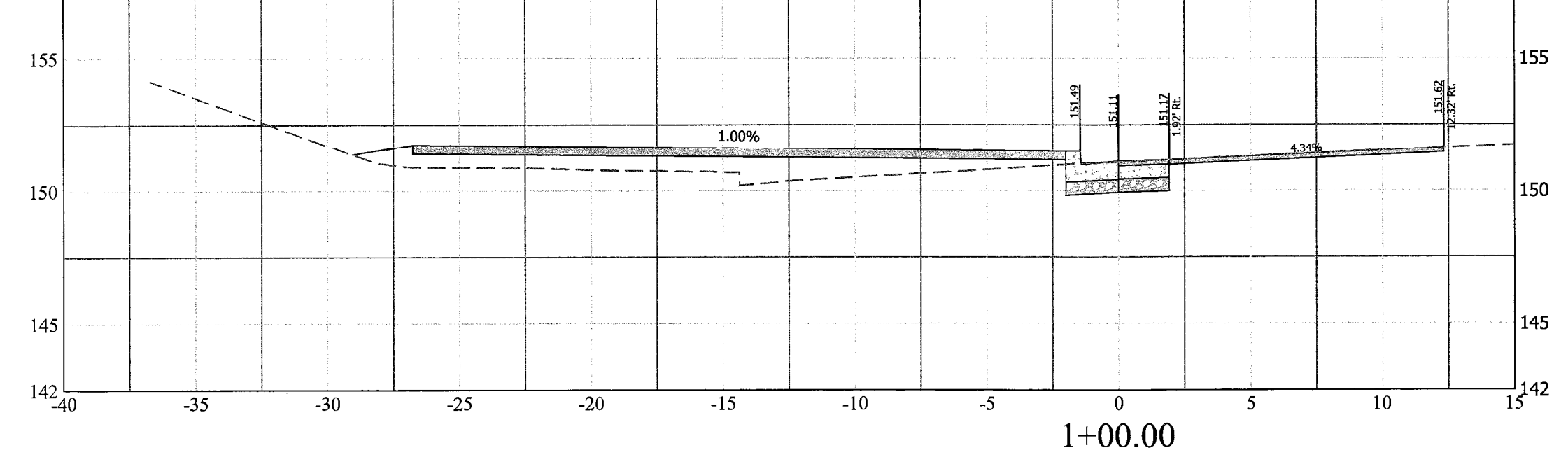
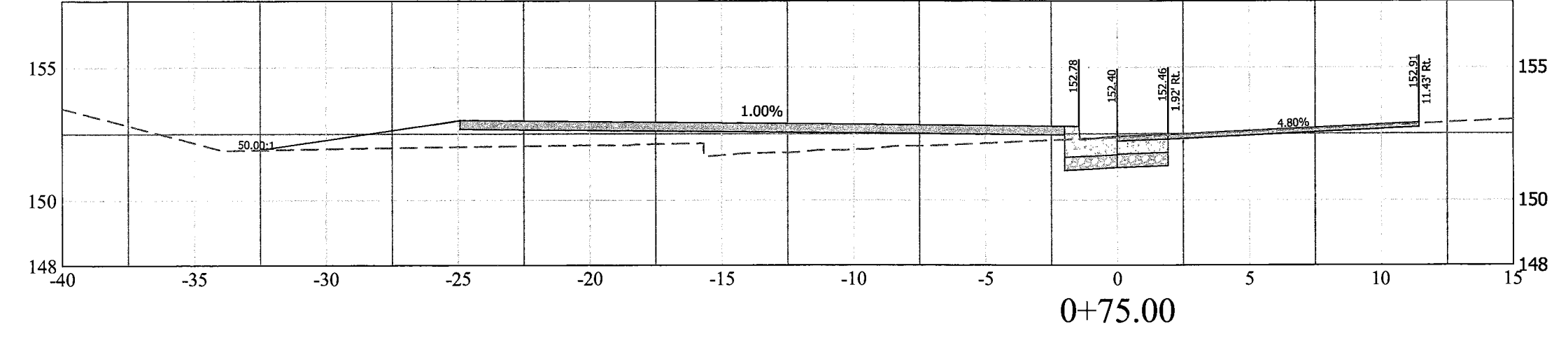
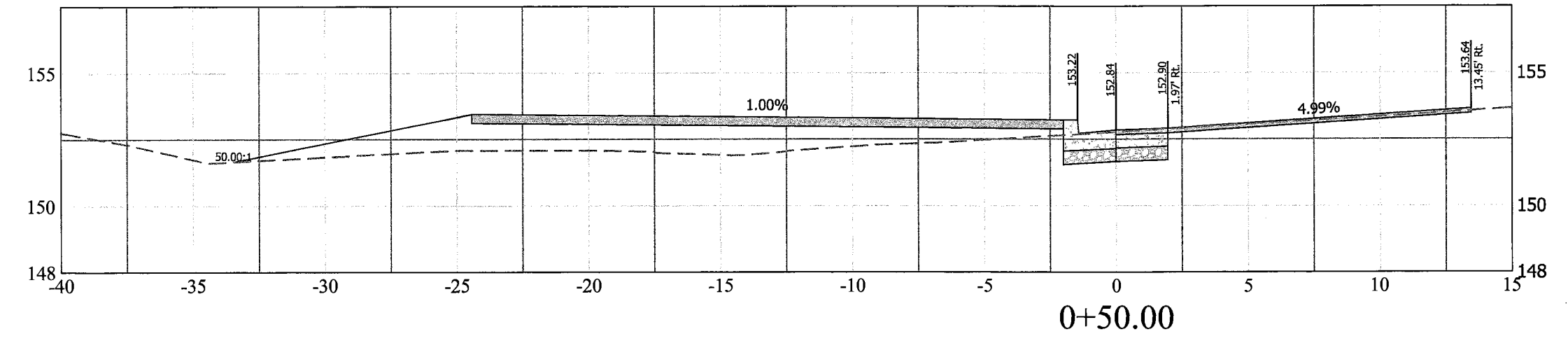
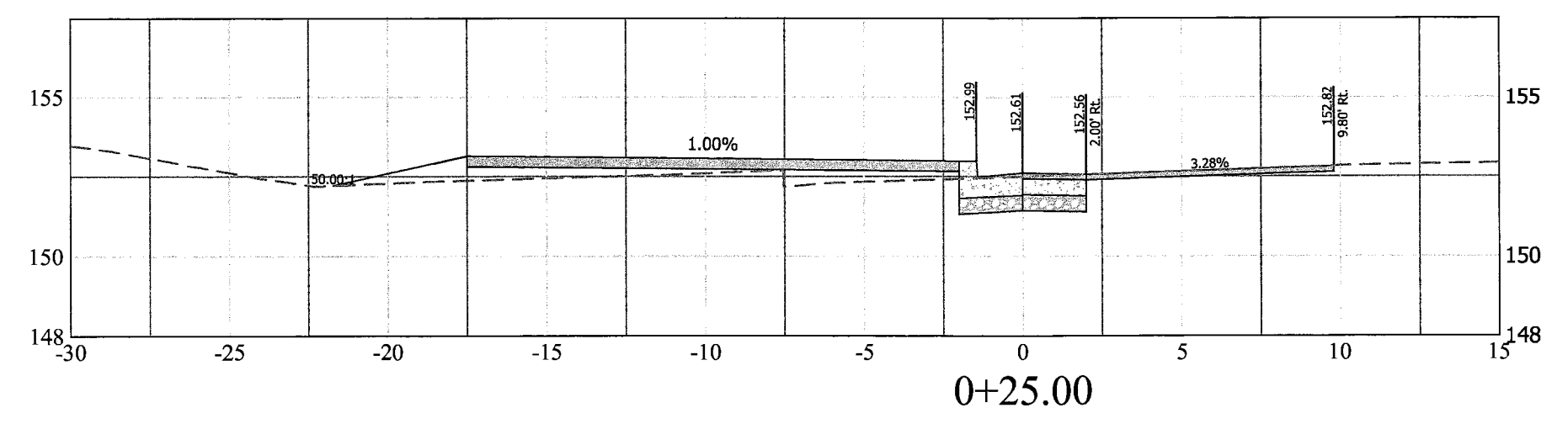
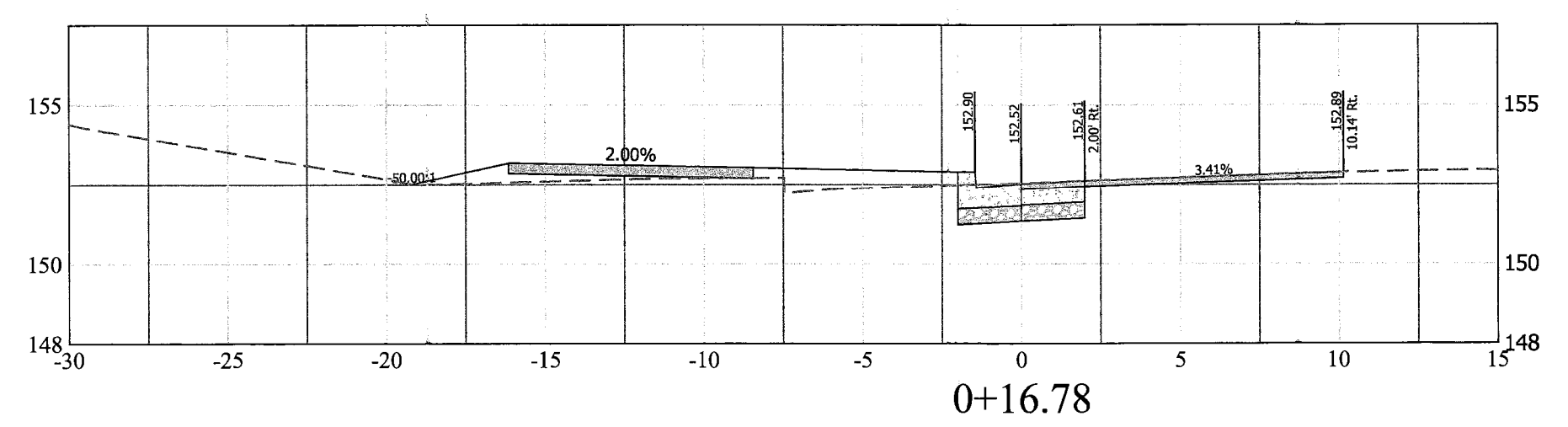
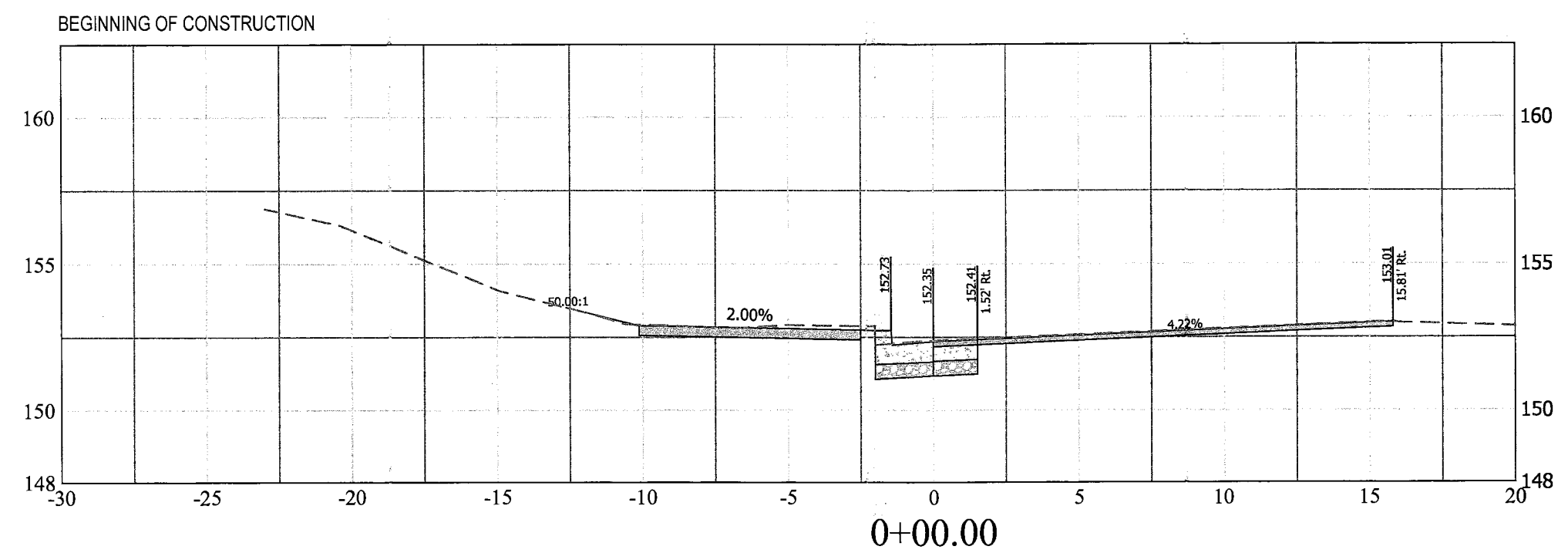
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 Plotted by: Pbanepali

Scale: Vert: 1" = 5'



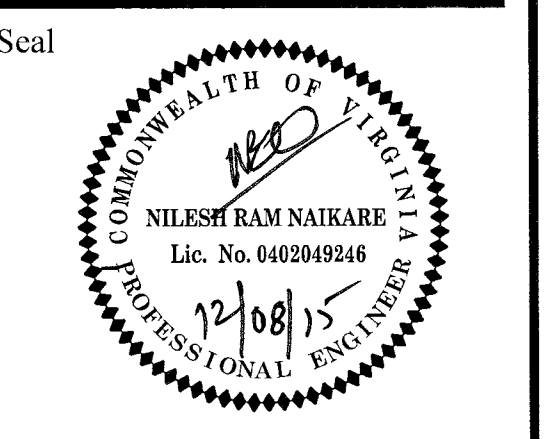
X-SECTIONS BASED ON EOP- N. QUINN STREET (CR-6 NE QUADRANT)



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



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 Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
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 Phone: 703.228.3629
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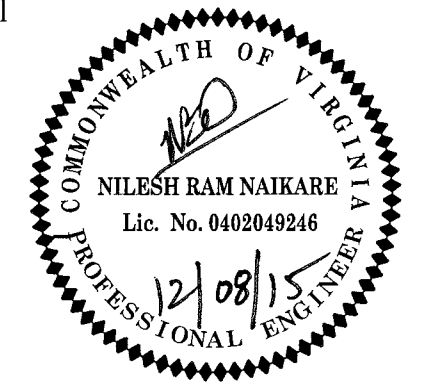
Approvals Date
 DESIGN TEAM SUPERVISOR 12/08/15
 ENGINEERING BUREAU CHIEF 12/08/15
 WATER, SEWER, STREETS BUREAU CHIEF 12/17/15
 TRANSPORTATION DIRECTOR 12/17/15

| Revisions | Date |
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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

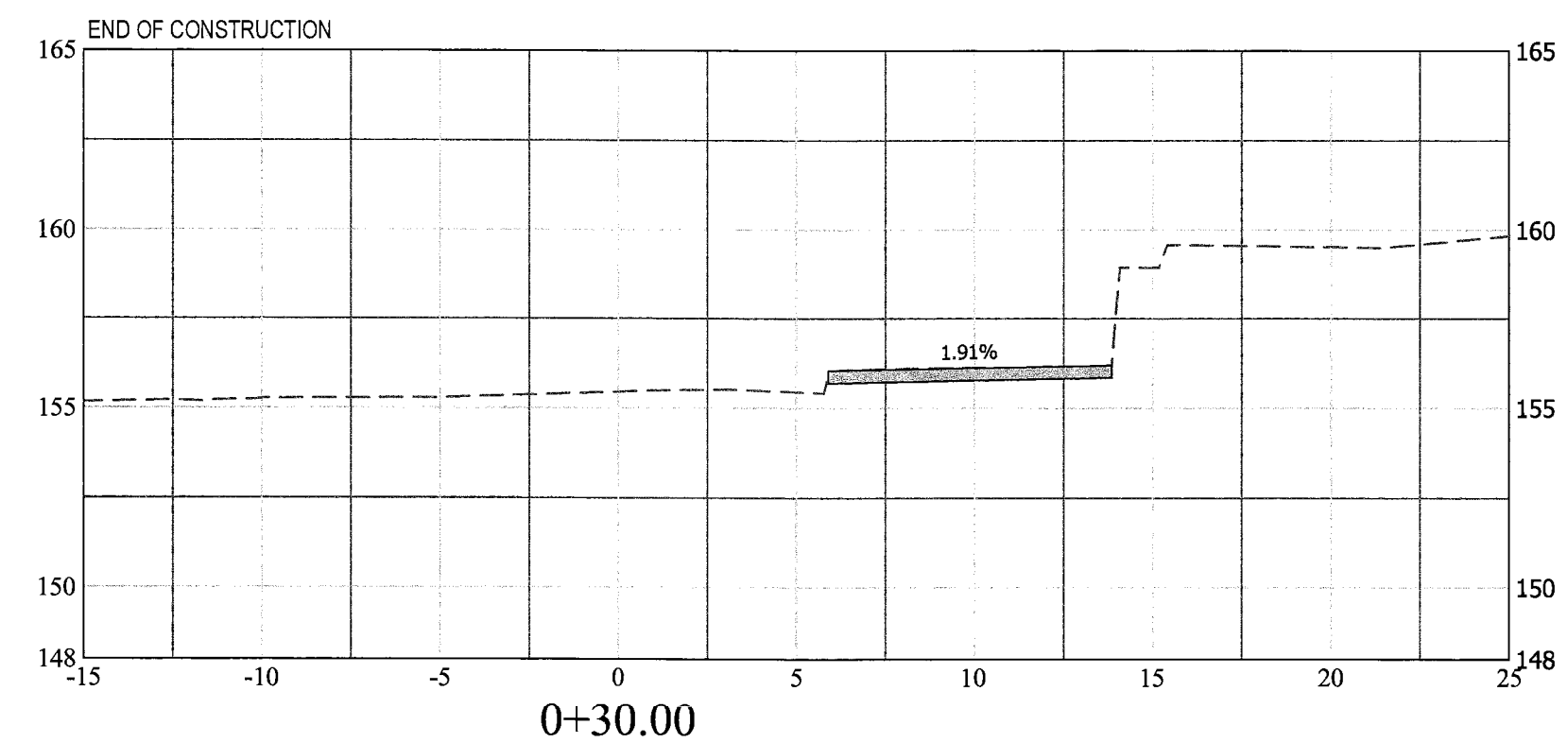
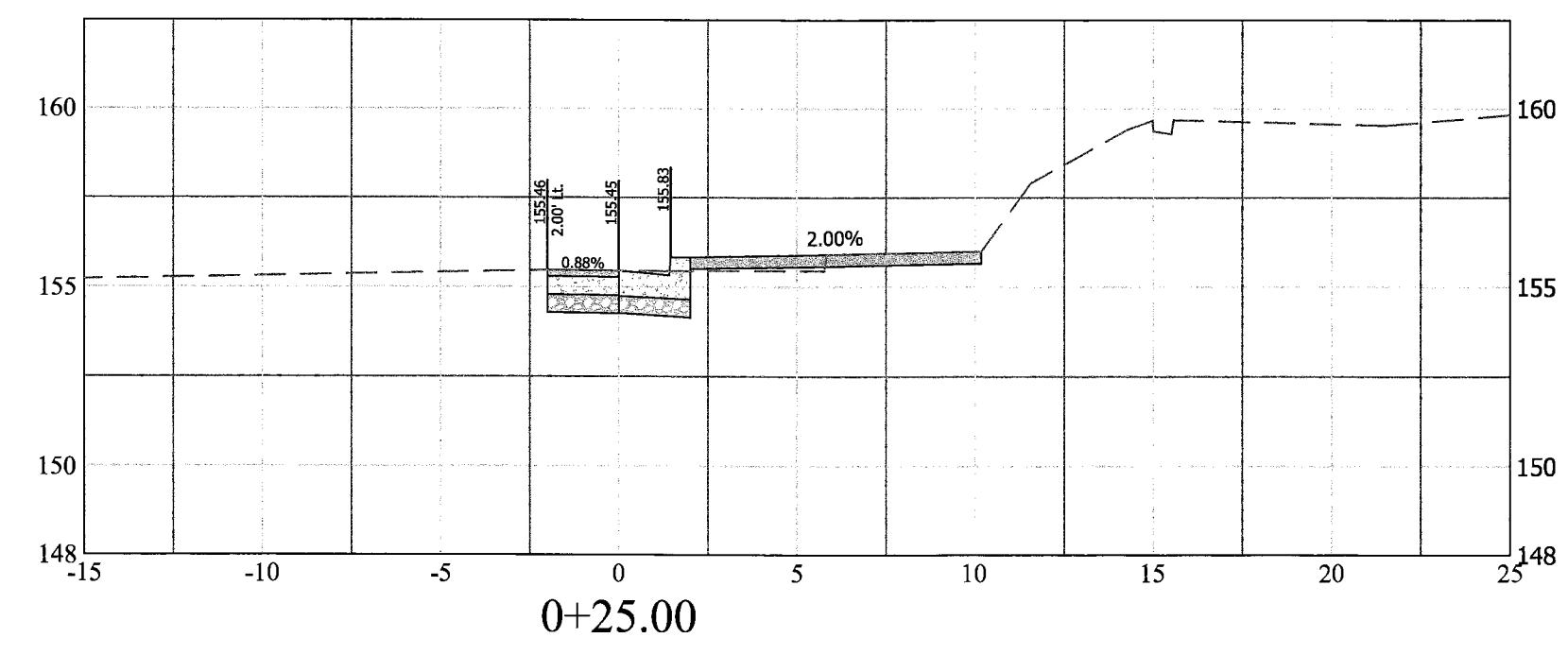
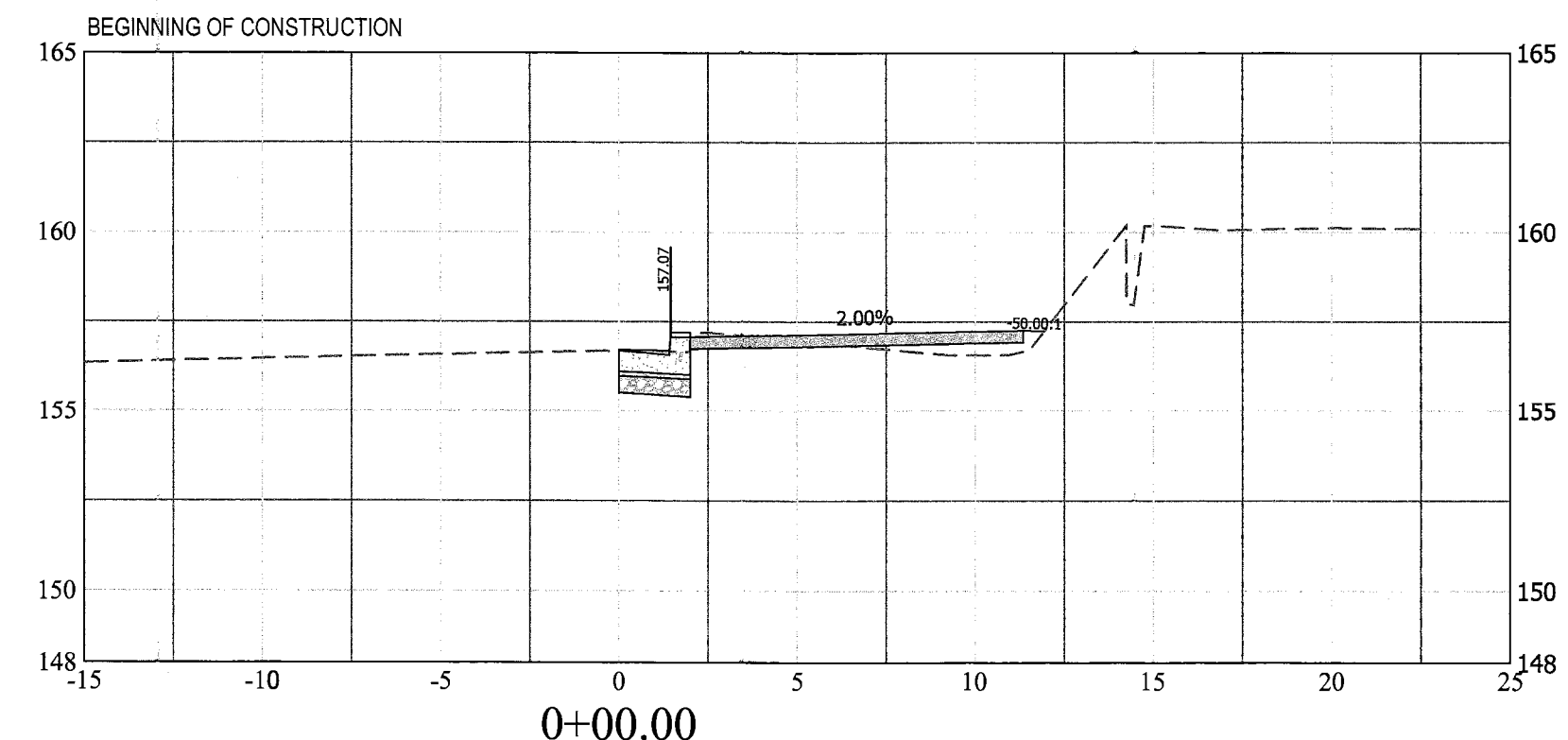
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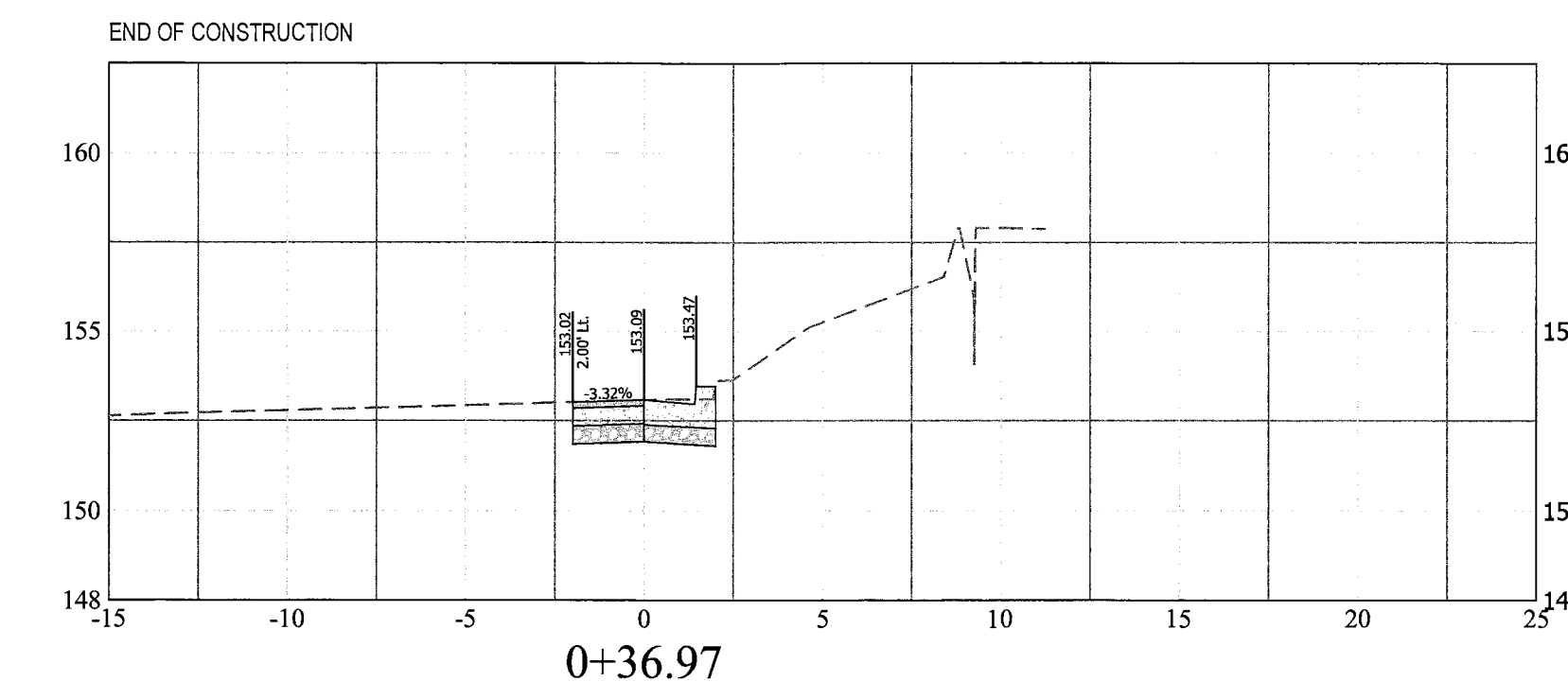
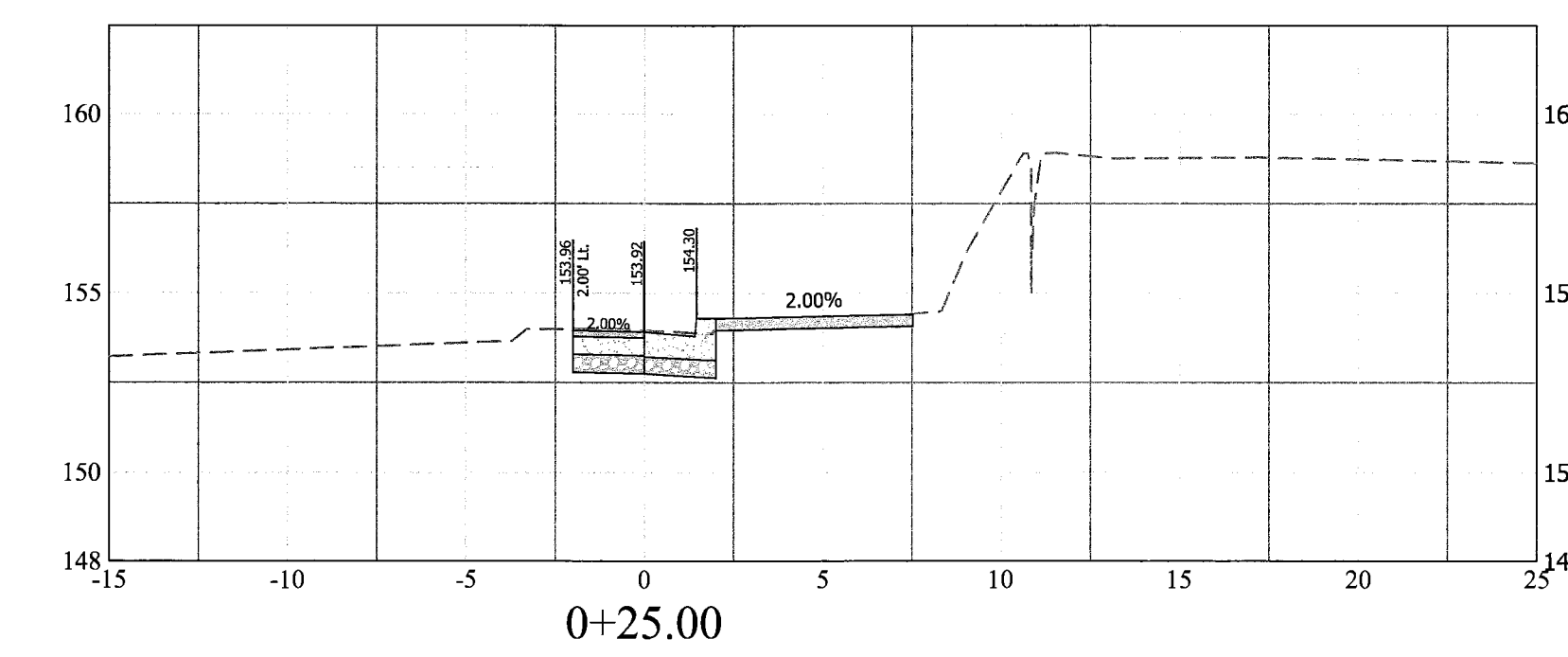
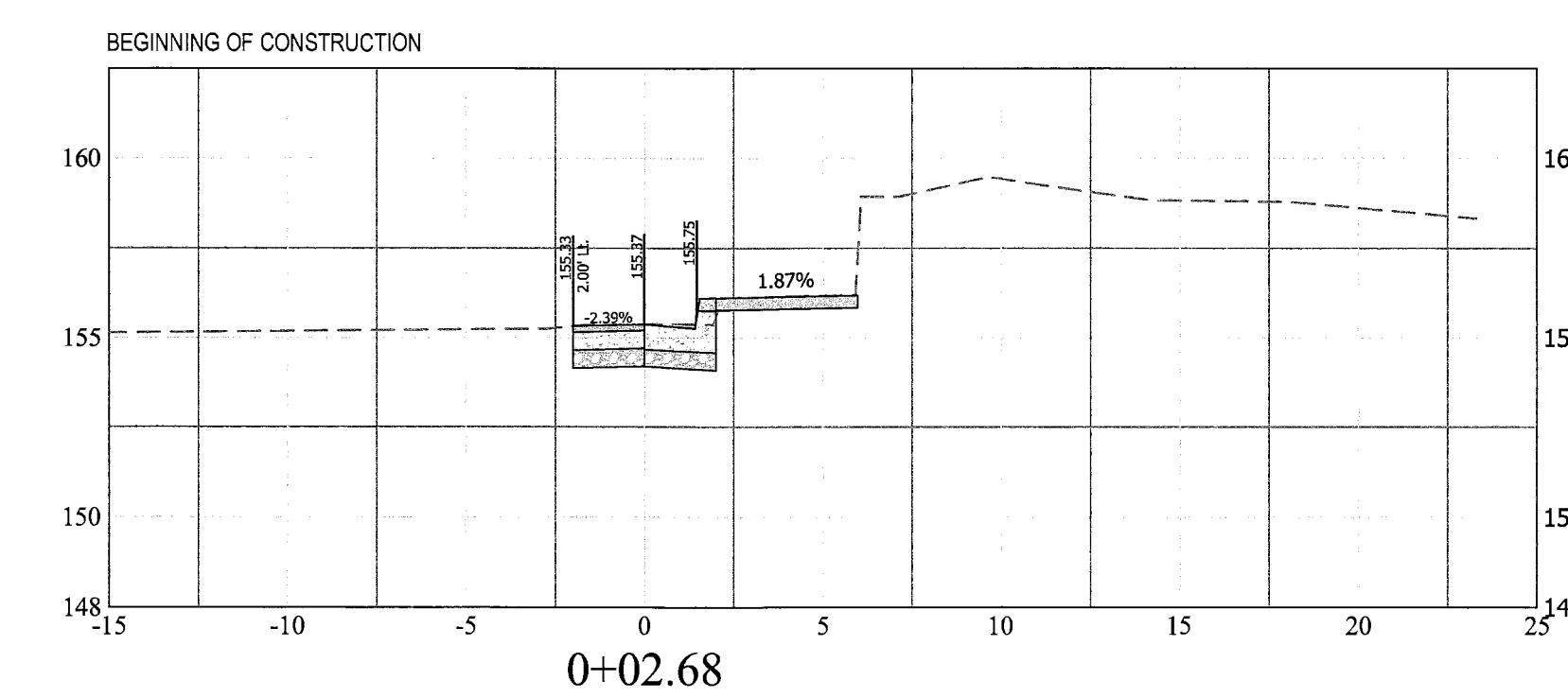


| Approvals | Date |
|-----------------------------------|----------|
| <i>[Signature]</i> | 12/08/15 |
| DESIGN TEAM SUPERVISOR | |
| <i>[Signature]</i> | 12/08/15 |
| ENGINEERING BUREAU CHIEF | |
| <i>[Signature]</i> | 12/17/15 |
| WATER, SEWER STREETS BUREAU CHIEF | |
| <i>[Signature]</i> | 12/17/15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

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



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

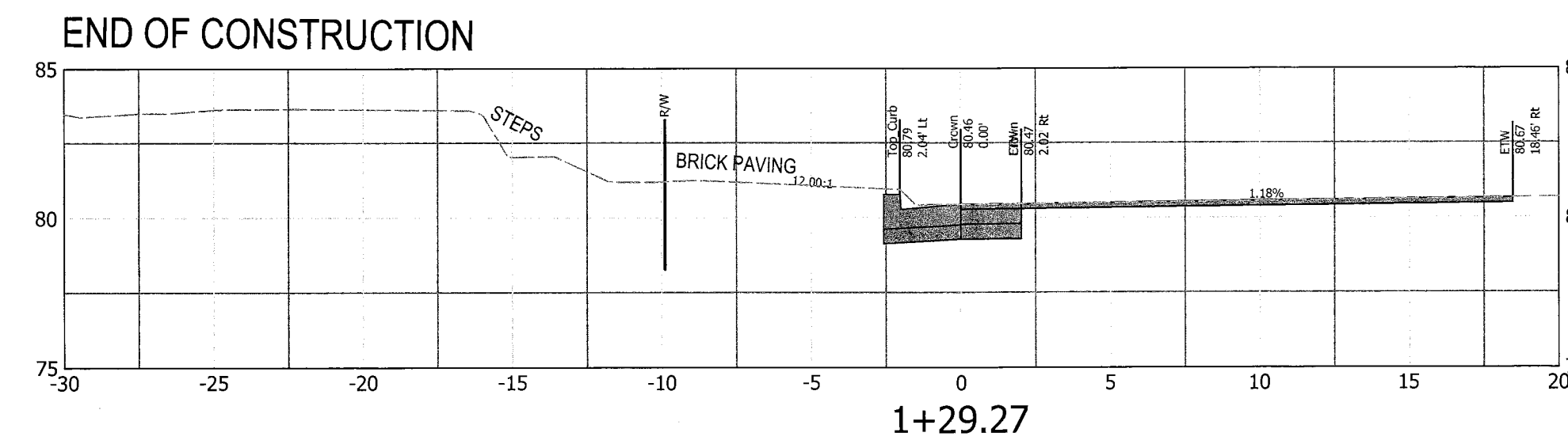
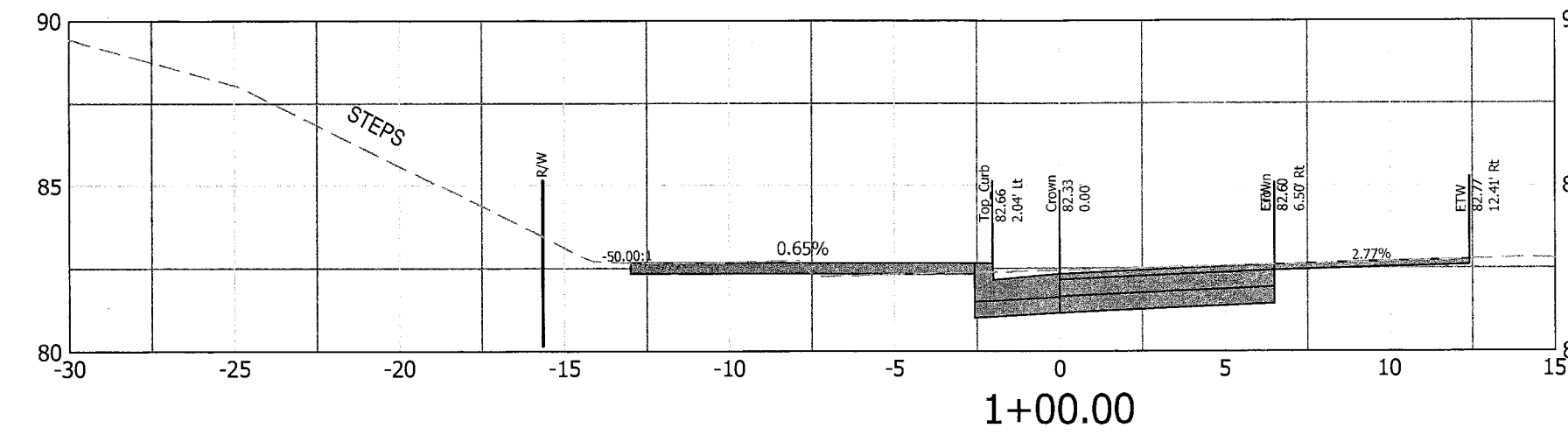
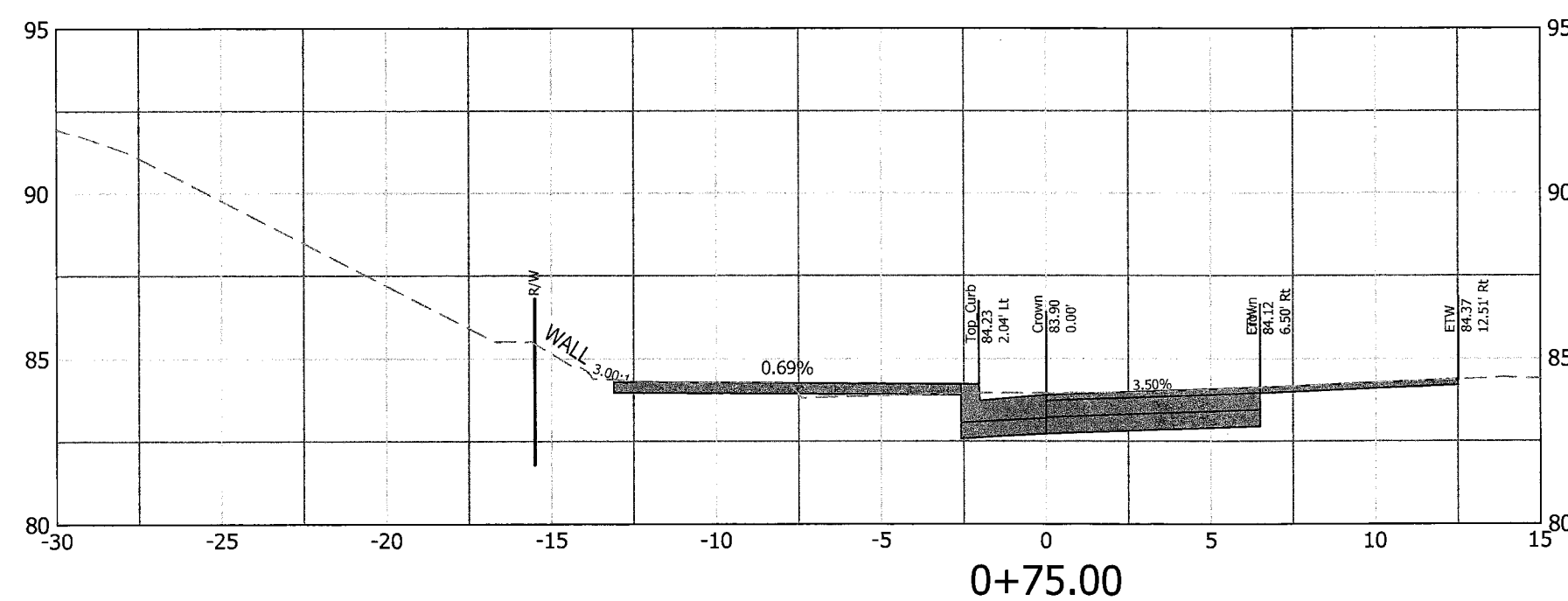
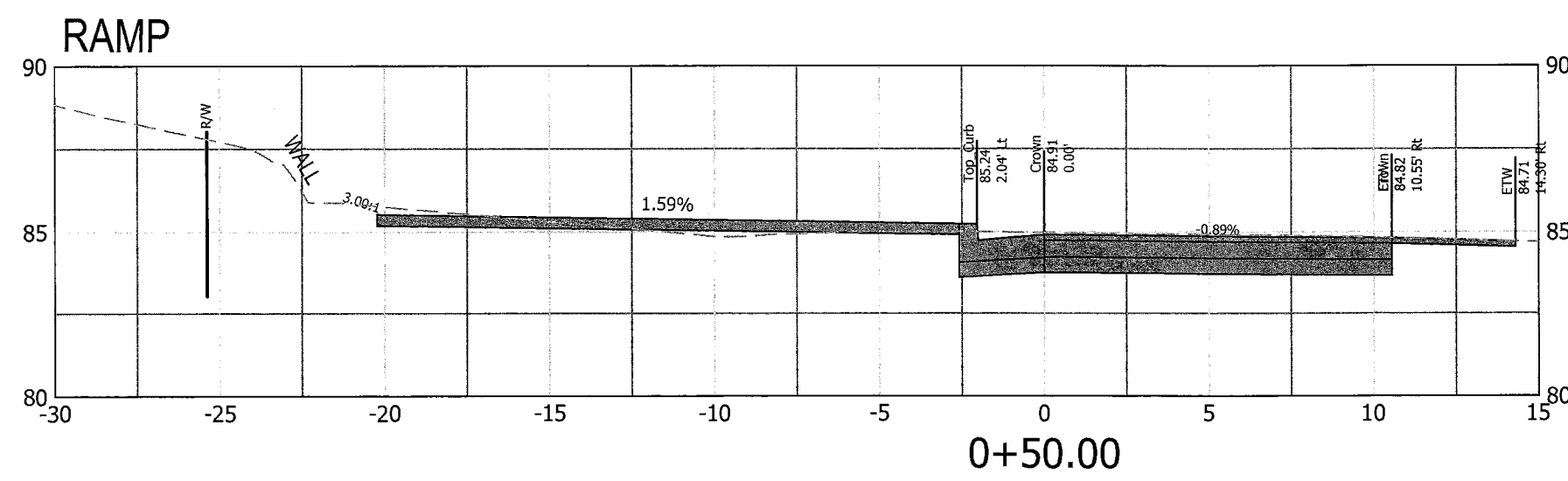
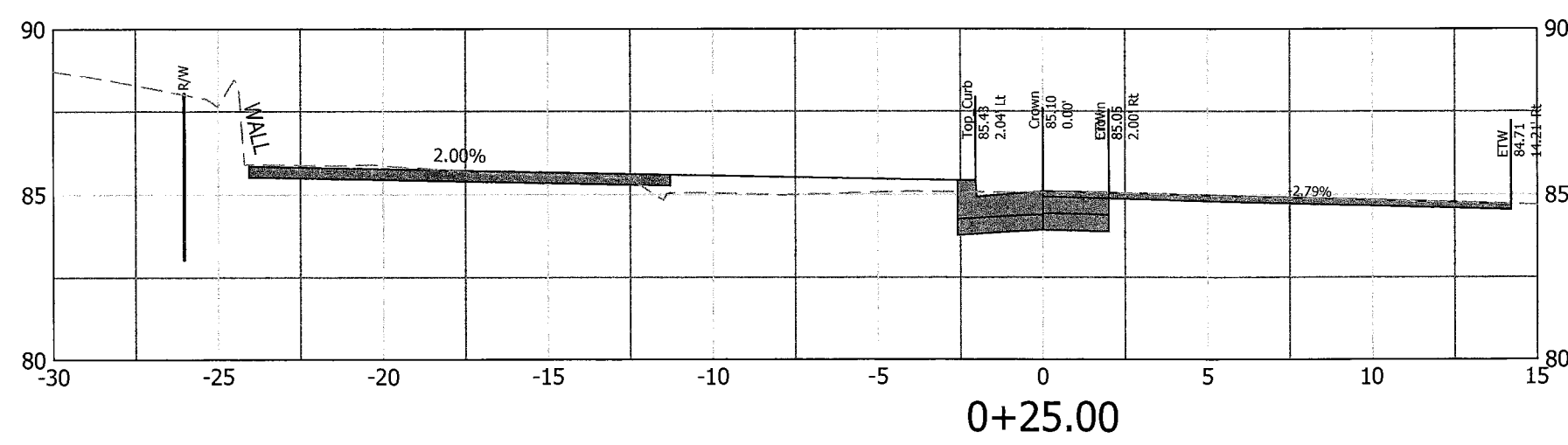
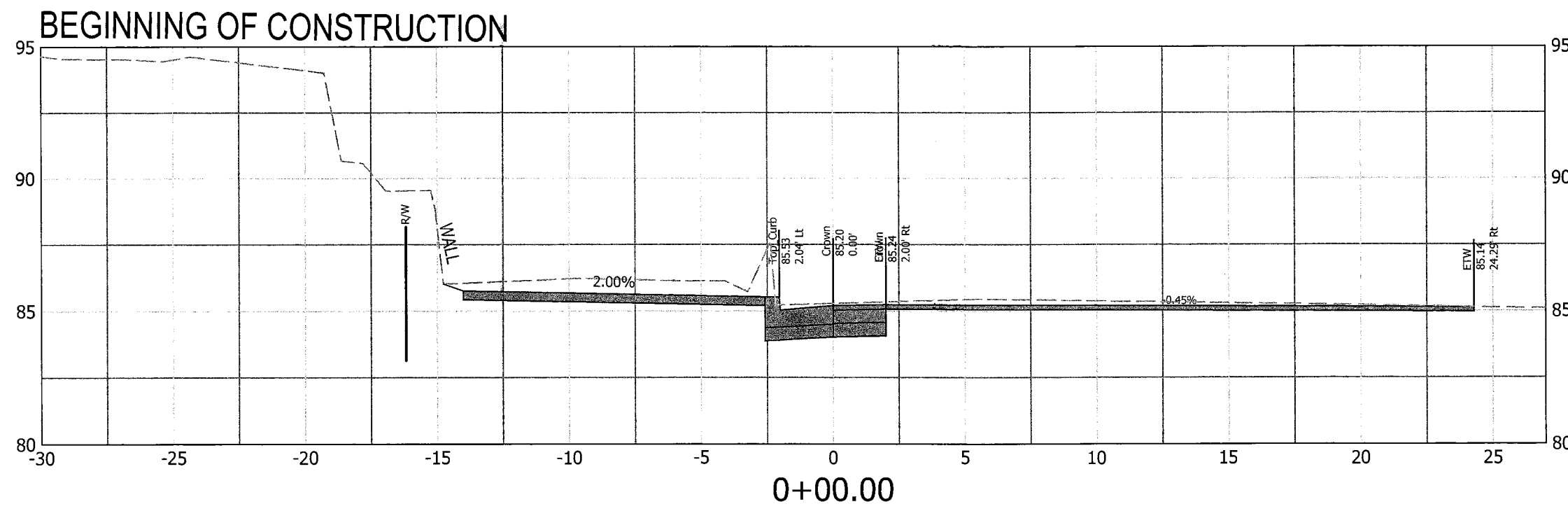
Project Name and Location

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

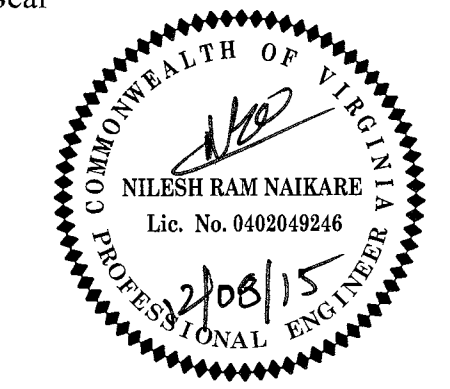
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Plotted by: Pbanepali

Scale: Vert: 1" = 5'

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



Seal



Approvals Date

M 12/08/15

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

Revisions Date

| Revisions | Date |
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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

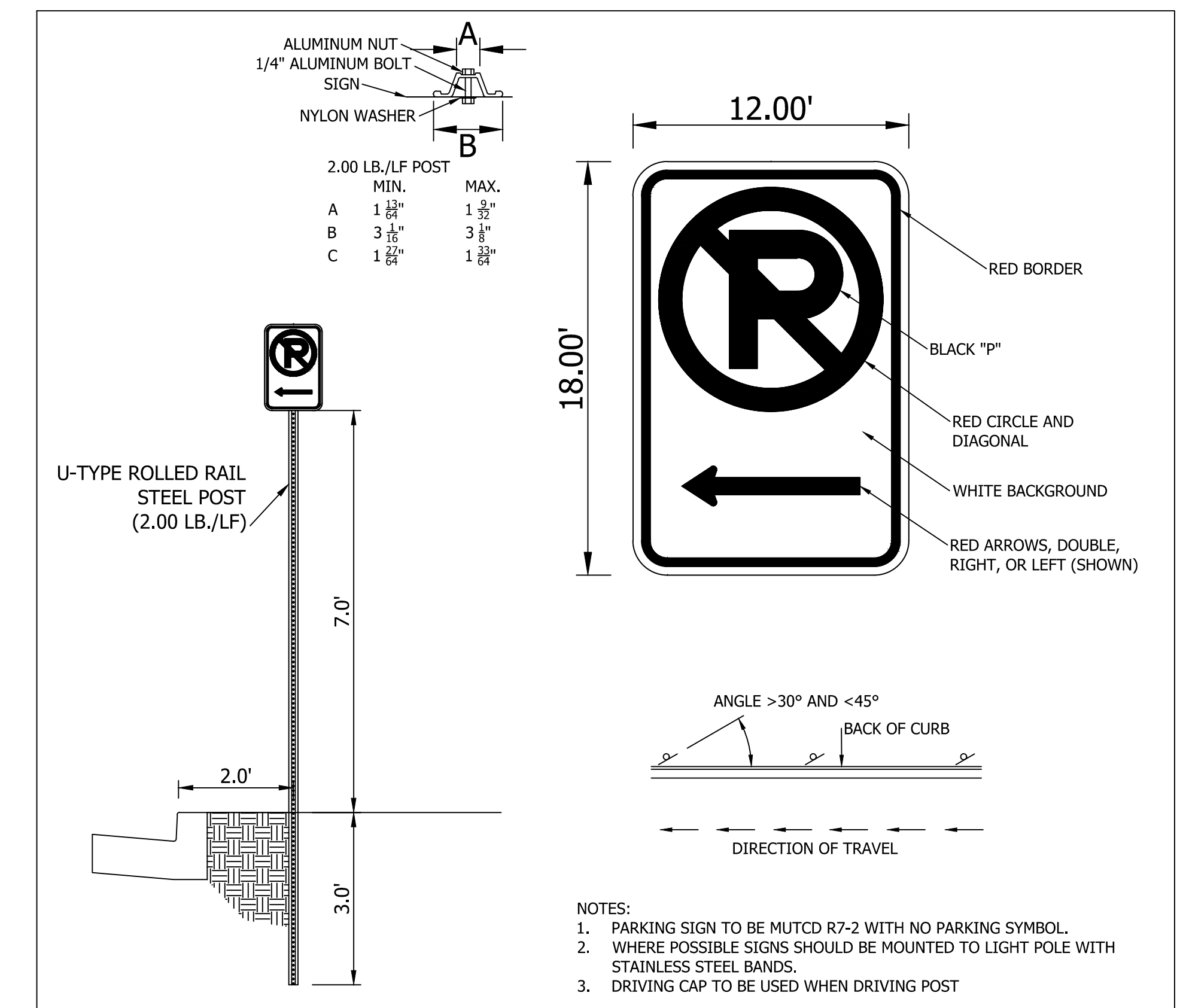
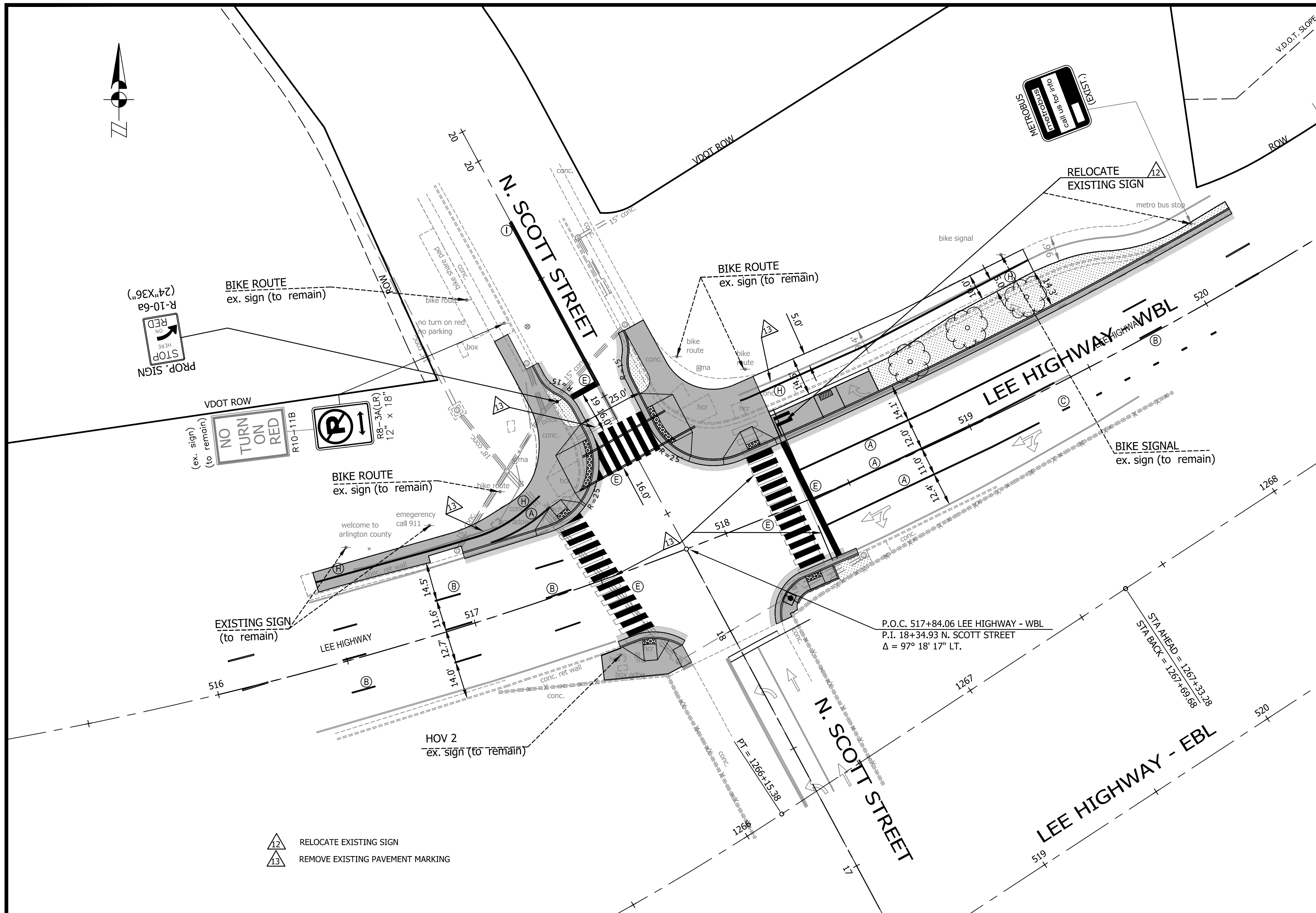
Designed: PB
Drawn: PB
Checked: NN
Miss Utility Transmittal #: 5203-D

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Plotted: September 17, 2015
Plotted by: Pbanepali

Scale: Vert: 1" = 5'

Sheet

22 of 44

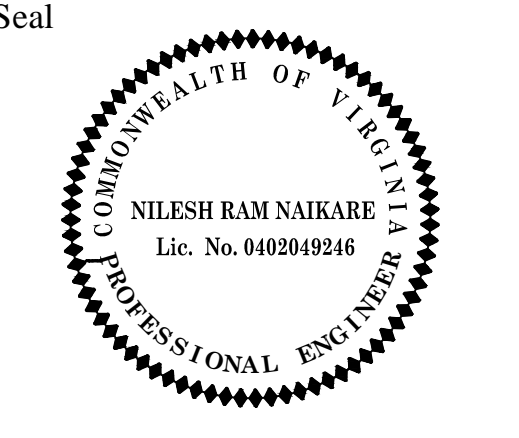
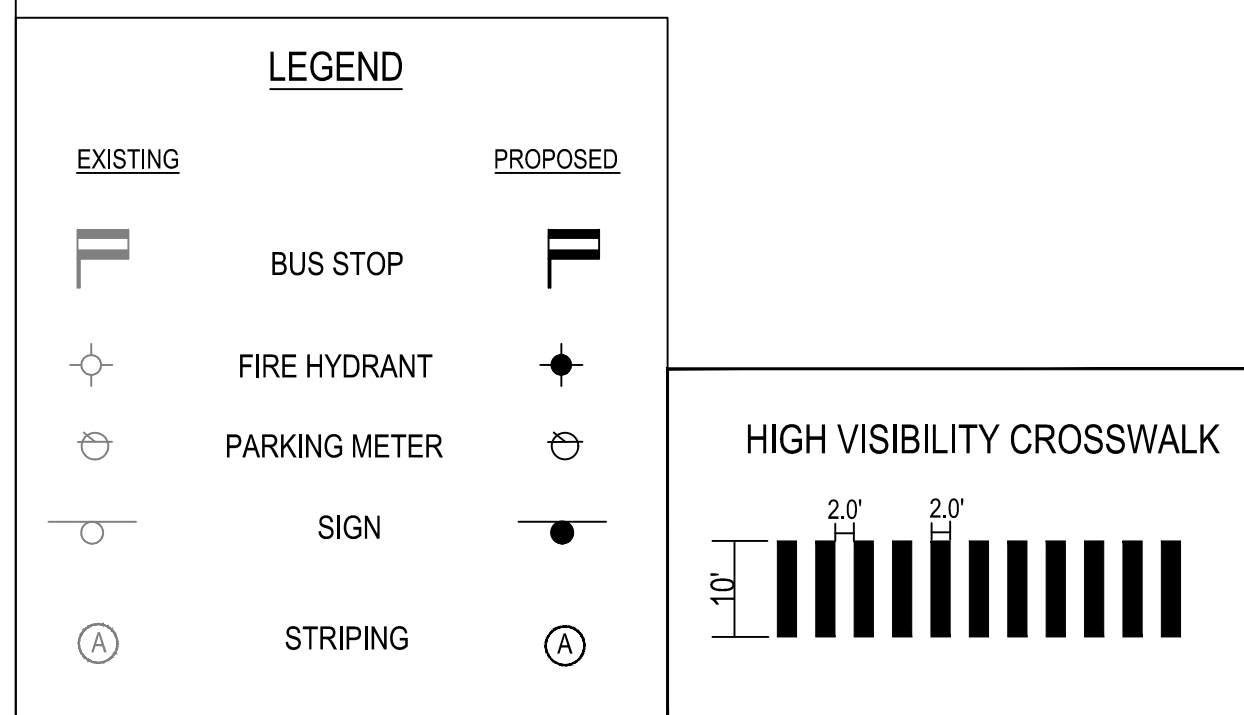


Parking Sign Detail

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

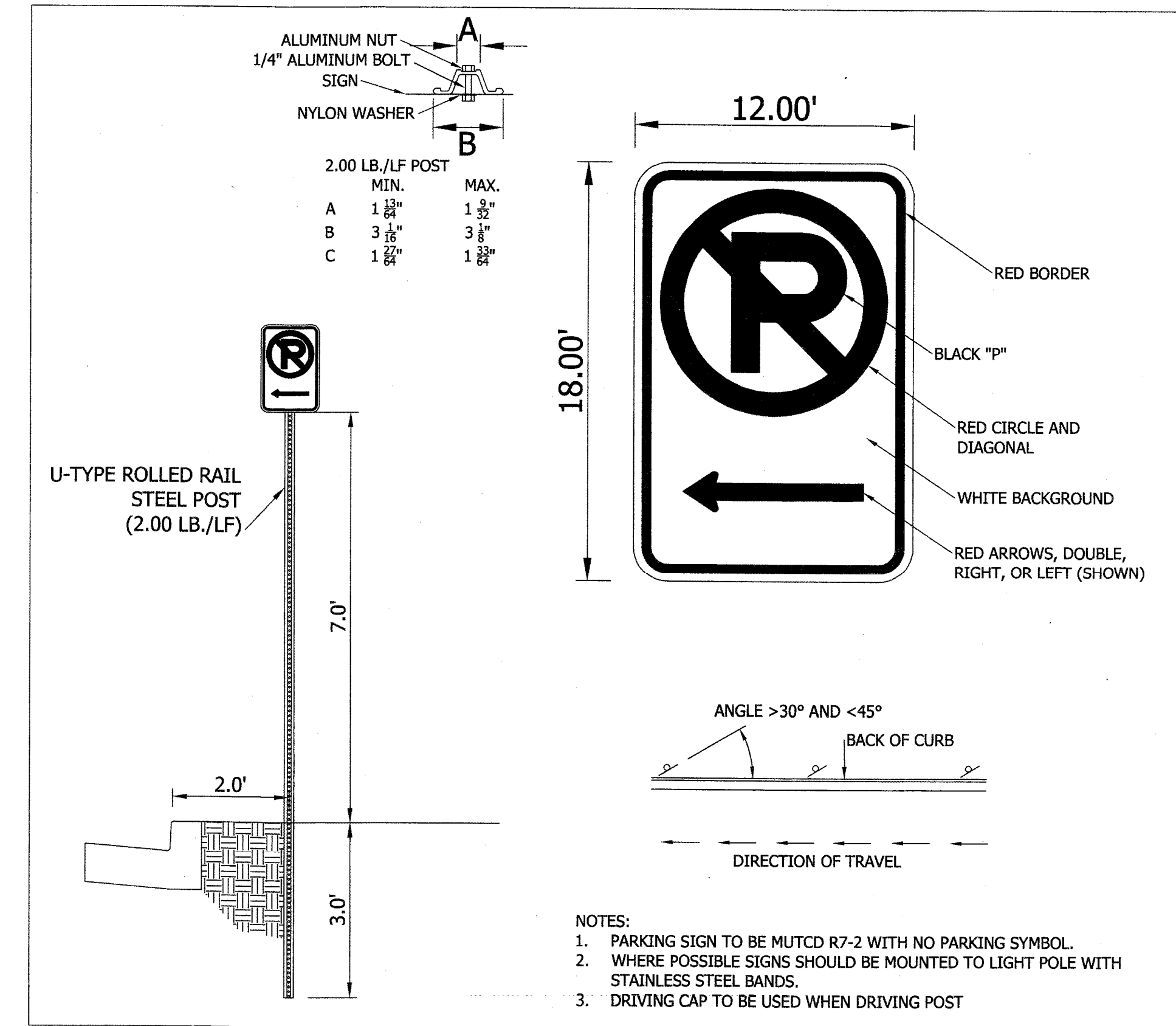
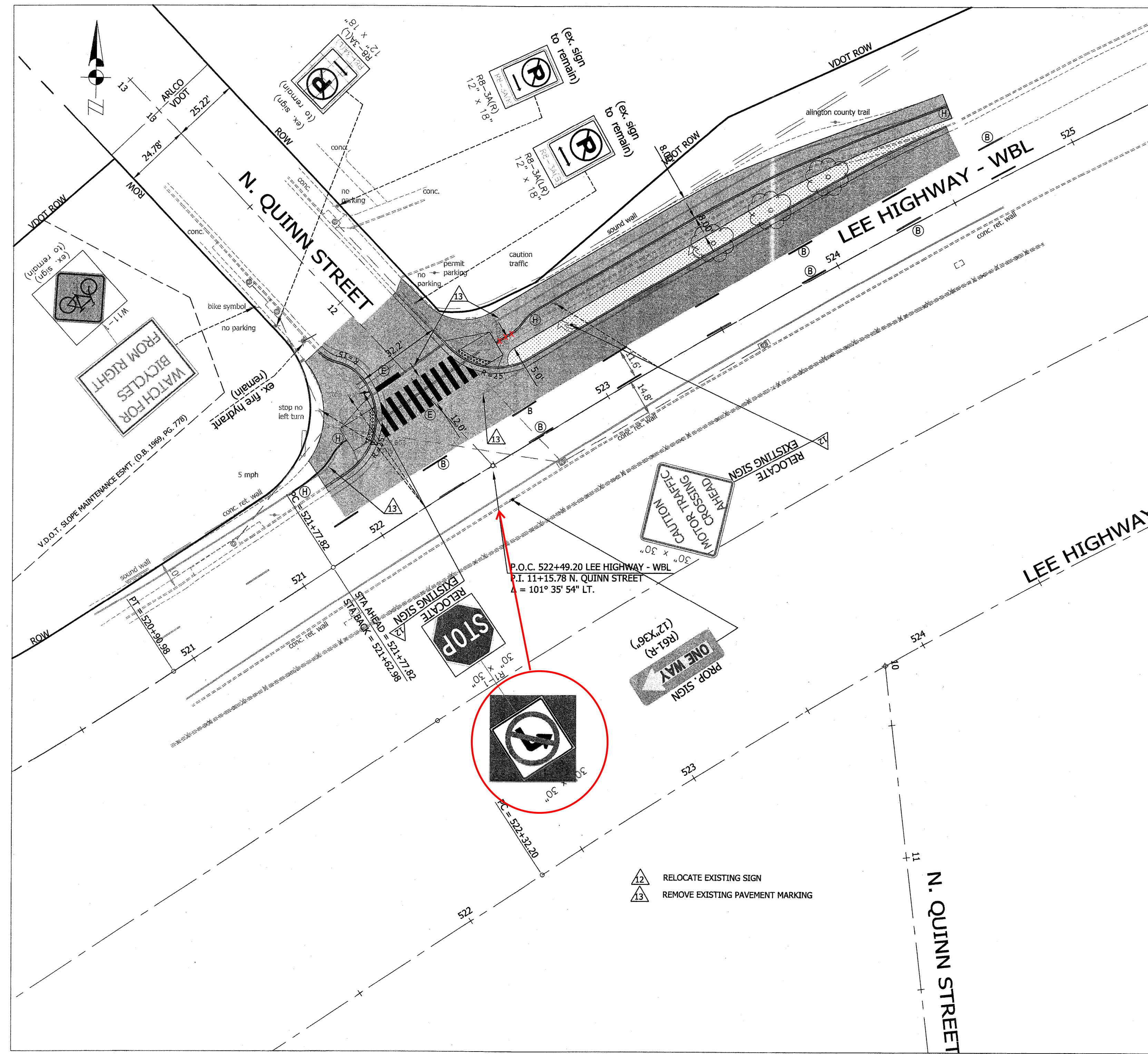
| | |
|-----------------------------------|------|
| DESIGN TEAM SUPERVISOR | Date |
| ENGINEERING BUREAU CHIEF | |
| WATER, SEWER STREETS BUREAU CHIEF | |
| TRANSPORTATION DIRECTOR | |

Revisions

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

Custis Trail-Safety Improvements
 Signage & Pavement Markings (N.Scott Street)
 From N.Oak Street
 To N. Scott Street
 313.435.20.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: pbanepali
 Scale: Hor: 1" = 25'
 Vert: 1" = 5'



Parking Sign Detail

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

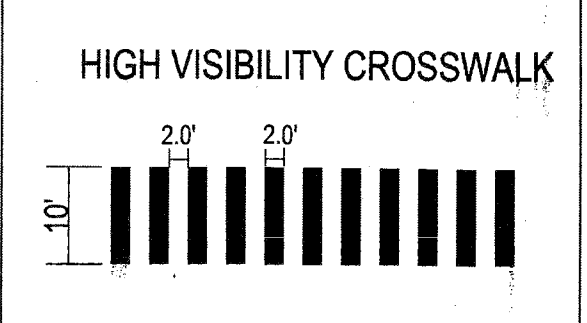
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- SIGN AND PAVEMENT MARKING NOTES:**
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 - B) ARLINGTON COUNTY MARKING STANDARDS.
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 6. CROSSWALKS SHALL BE 10' WIDE UNLESS OTHERWISE NOTED.
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 9. SHARROWS SHALL BE PLACED IN CENTER OF LANE, 250' APART UNLESS OTHERWISE SPECIFIED.
 10. BIKE LANE SYMBOLS TO BE PLACED 330' APART UNLESS OTHERWISE SPECIFIED.

LEGEND

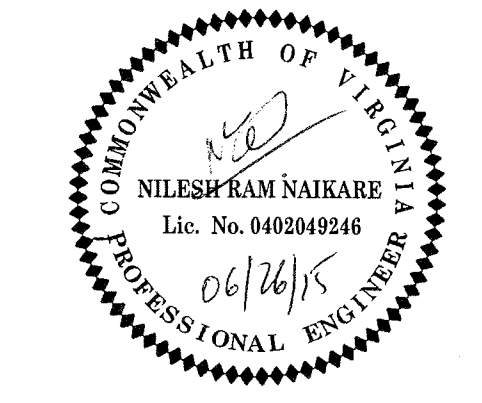
| EXISTING | PROPOSED |
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Virginia Department of Transportation
Review of Working Drawings

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

Reviewed by: Date: 8-12-2015



Approvals

| | |
|-----------------------------------|----------------|
| DESIGN TEAM SUPERVISOR | Date: 06/26/15 |
| ENGINEERING BUREAU CHIEF | |
| WATER, SEWER STREETS BUREAU CHIEF | |
| TRANSPORTATION DIRECTOR | |

Revisions

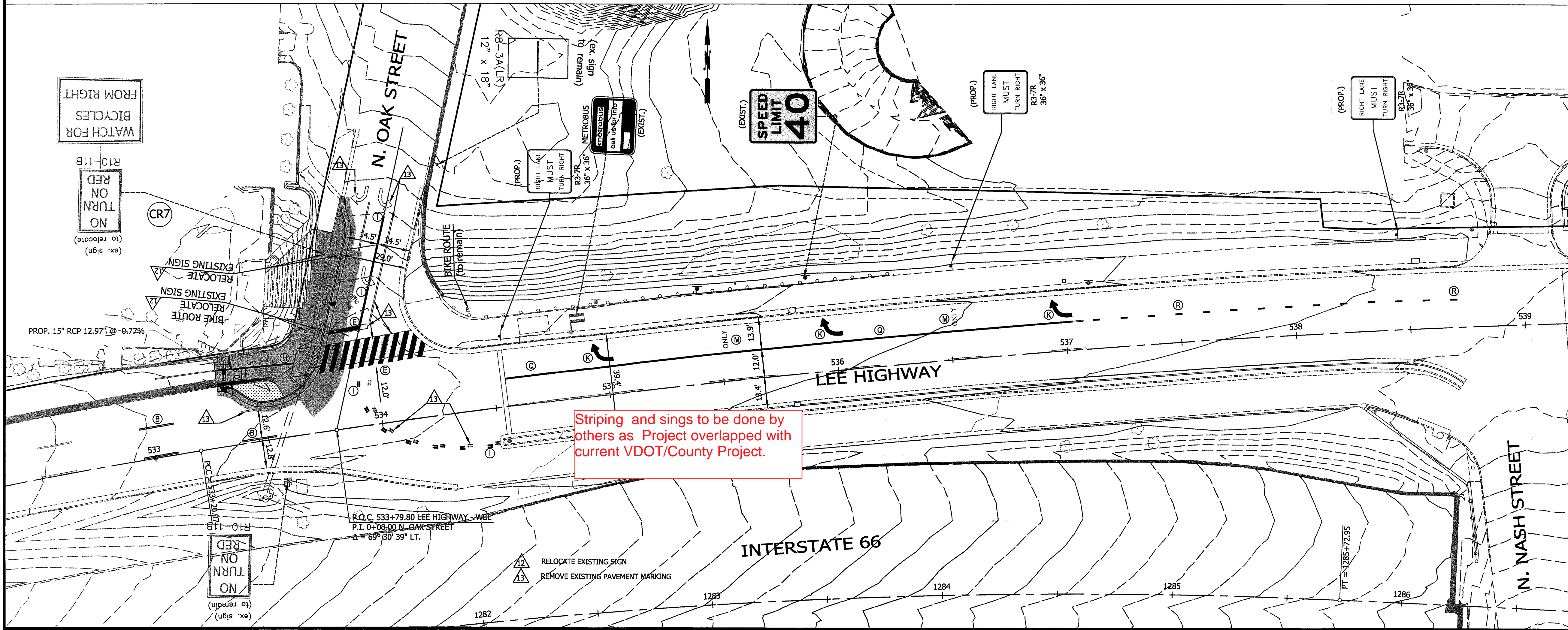
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| | Date |
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Project Name and Location
Custis Trail-Safety Improvements
Signage & Pavement Markings (N. Quinn Street)
From N. Oak Street
To N. Scott Street
313.43320.1806K.0319.0000

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: Pbanepali

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



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

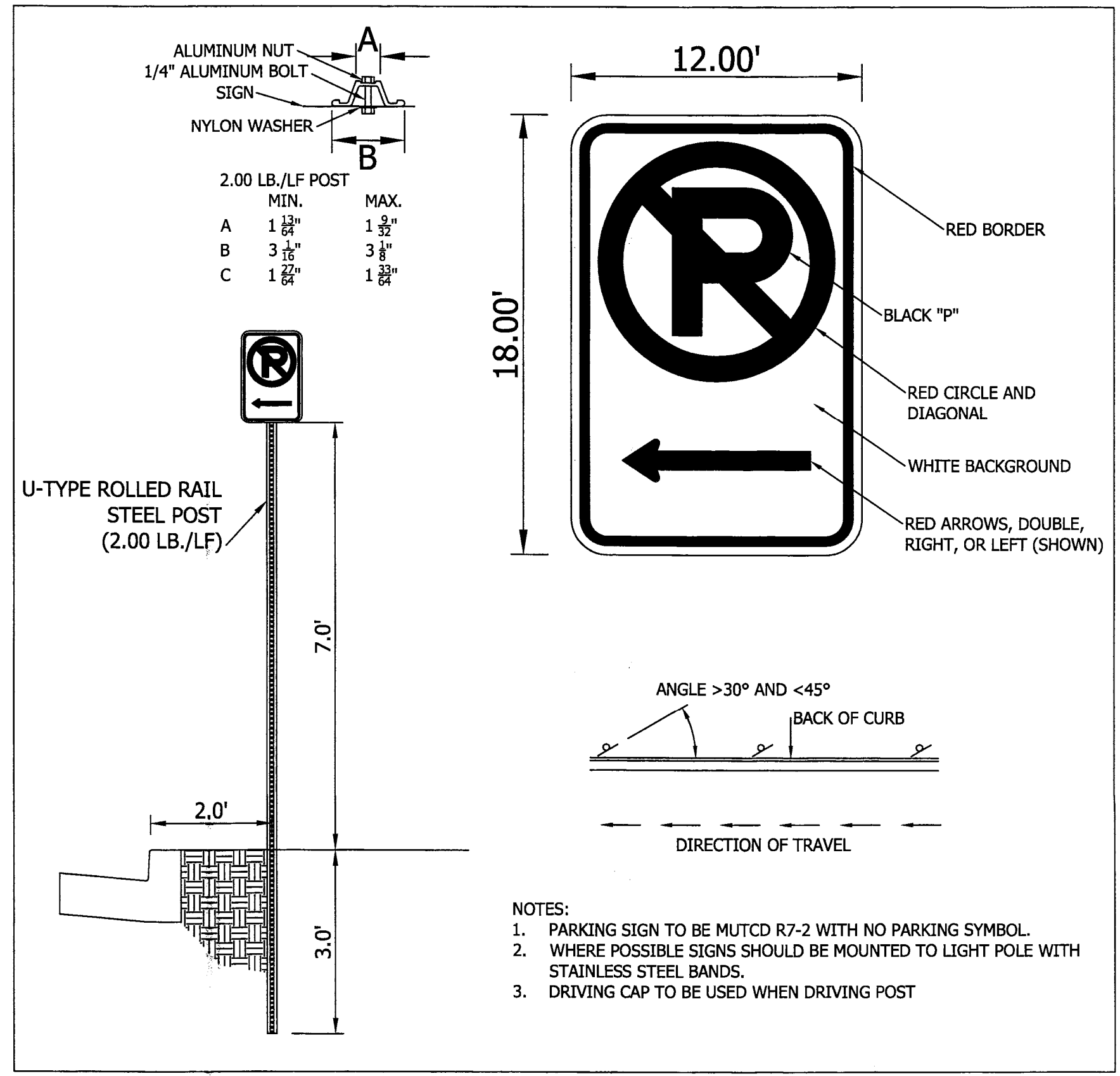
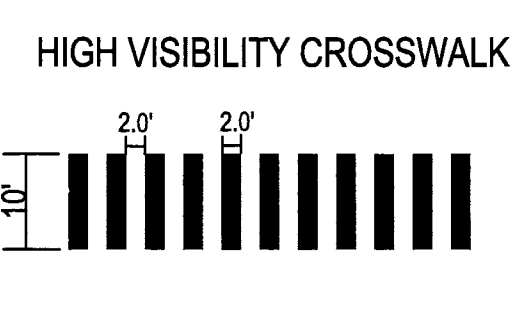
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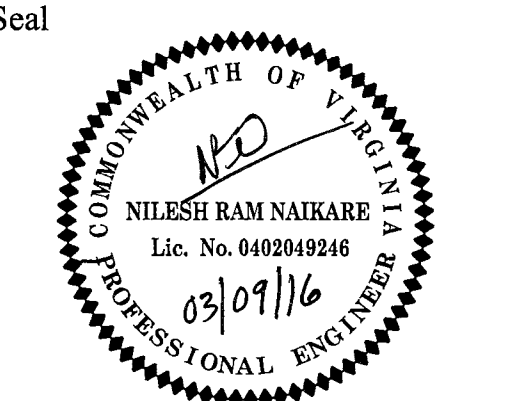
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LEGEND

| EXISTING | | PROPOSED |
|----------|---------------|----------|
| | BUS STOP | |
| | FIRE HYDRANT | |
| | PARKING METER | |
| | SIGN | |
| | STRIPING | |



- 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 Date 03/09/16
 DESIGN TEAM SUPERVISOR
 ENGINEERING BUREAU CHIEF
 WATER SEWER STREETS BUREAU CHIEF
 TRANSPORTATION DIRECTOR

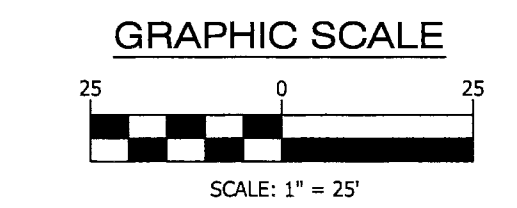
Revisions Date

Project Name and Location
Custis Trail-Safety Improvements
 Signage & Pavement Markings (N. Oak Street)
 From N. Oak Street
 To N. Scott Street
 313.433.520.1306K.0319.0000

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

Filename: S & P Markings_Oak_Jan 2016 (revised).dwg
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 Plotted: March 08, 2016
 Plotted by: Pbanepalli

Scale: Hor: 1" = 25'



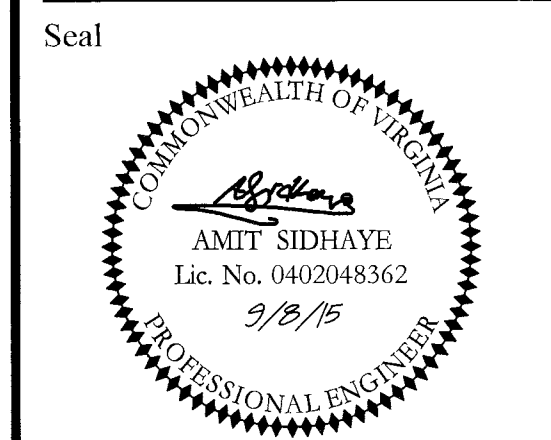
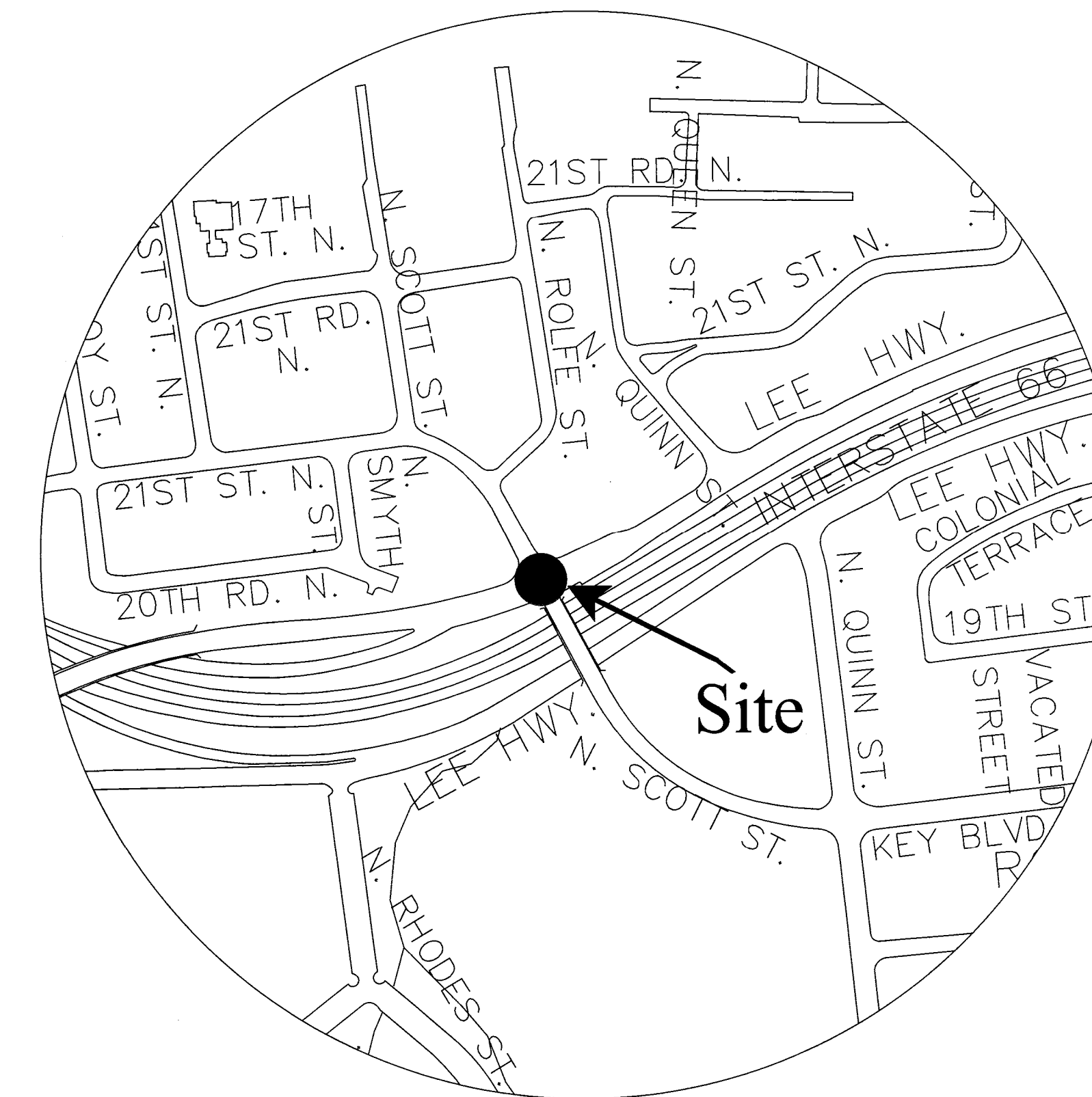
Construction Drawings For: Traffic Signal Design

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 |
|-----------|------|
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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-bl-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:
 - TO REST IN PHASE 2 & 6 GREEN INTERVAL
 - 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

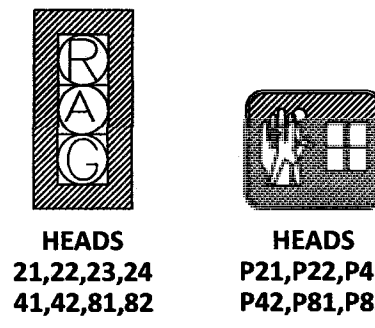
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Drawn: RGS
Checked: JSN
Miss Utility Transmittal #:
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Plotted: September 08, 2015
Plotted by: Rsalas
Scale: N.T.S.

Lee Highway & N. Scott St.

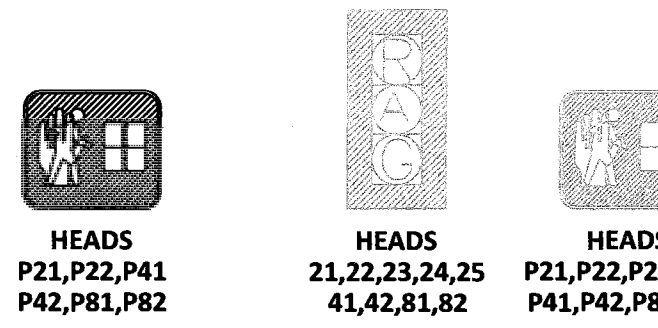
Traffic Signal Design

TS # 146

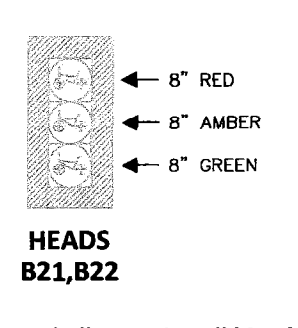
PROPOSED SIGNALS



EXISTING SIGNALS (TO BE REMOVED)

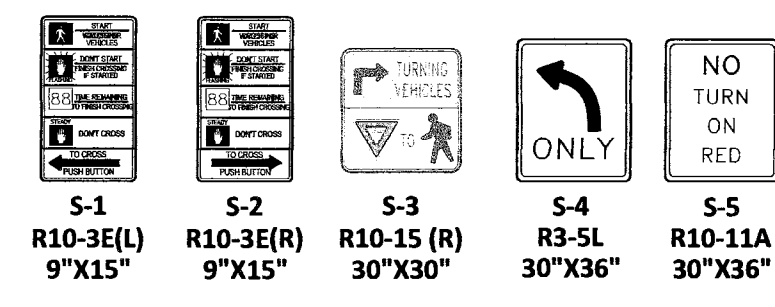


EXISTING BICYCLE SIGNALS (TO BE RELOCATED)

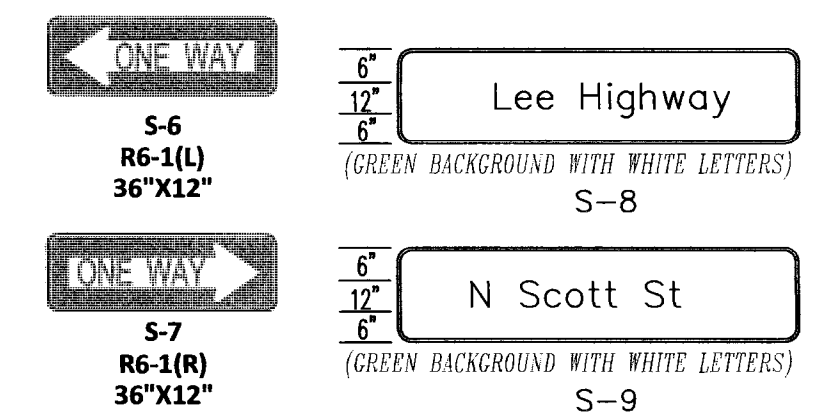


NOTE:
Contractor shall not reinstall bicycle signals without written permission from county traffic signal engineer.

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)
6-14/4c 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
3-14/7c 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
- 1-2" CONDUIT (TRENCHING)
1-14/7c PROP. PEDESTRIAN SIGNAL HEAD P41
1-14/7c PROP. BICYCLE SIGNAL HEADS B22
1-14/4c PROP. CABLE LUMINAIRE SL4
- 1-2" CONDUIT (TRENCHING)
1-14/2c PROP. PEDESTRIAN PUSH BUTTON PB41
- 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.

- 1-2" CONDUIT (TRENCHING)
1-14/7c PROP. BICYCLE SIGNAL HEADS B21
1-14/4c PROP. PEDESTRIAN SIGNAL HEAD P81
1-14/2c PROP. PEDESTRIAN PUSH BUTTON PB81
- EXISTING TRAFFIC SIGNAL CONDUITS & CABLES (REMOVED OR ABANDONED)

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.

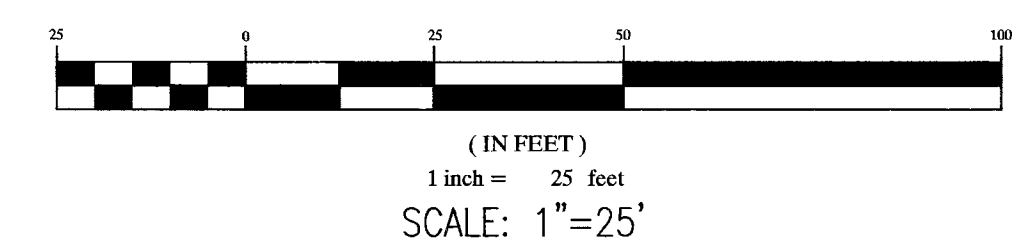
DEMOLITION & CONSTRUCTION NOTES

- 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.

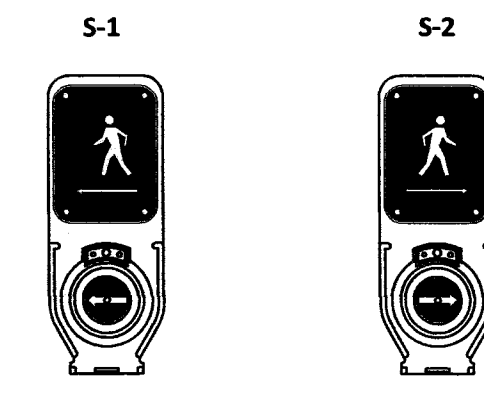
LEGEND

| | EXISTING | PROPOSED |
|------------------------------------|----------|----------|
| Control Cabinet | | |
| Signal Junction Box | | |
| Fiber Optic Junction Box | | |
| Service Junction Box | | |
| Mast Arm Pole & Foundation | | |
| Pedestrian Pole & Foundation | | |
| Carlyle Lighting Pole & Foundation | | |
| Service Meter | | |
| Battery Backup (UPS) | | |
| Vehicle Signal Head (LED) | | |
| Bicycle Signal Head (LED) | | |
| Pedestrian Push Button | | |
| FLIR Video Detection | | |
| Emergency Vehicle Preemption | | |
| CCTV Vehicle Camera | | |
| Overhead Light (LED) | | |
| Conduit Run | | |

GRAPHIC SCALE



PROPOSED ACCESSIBLE PUSHBUTTON SYSTEM (APS)

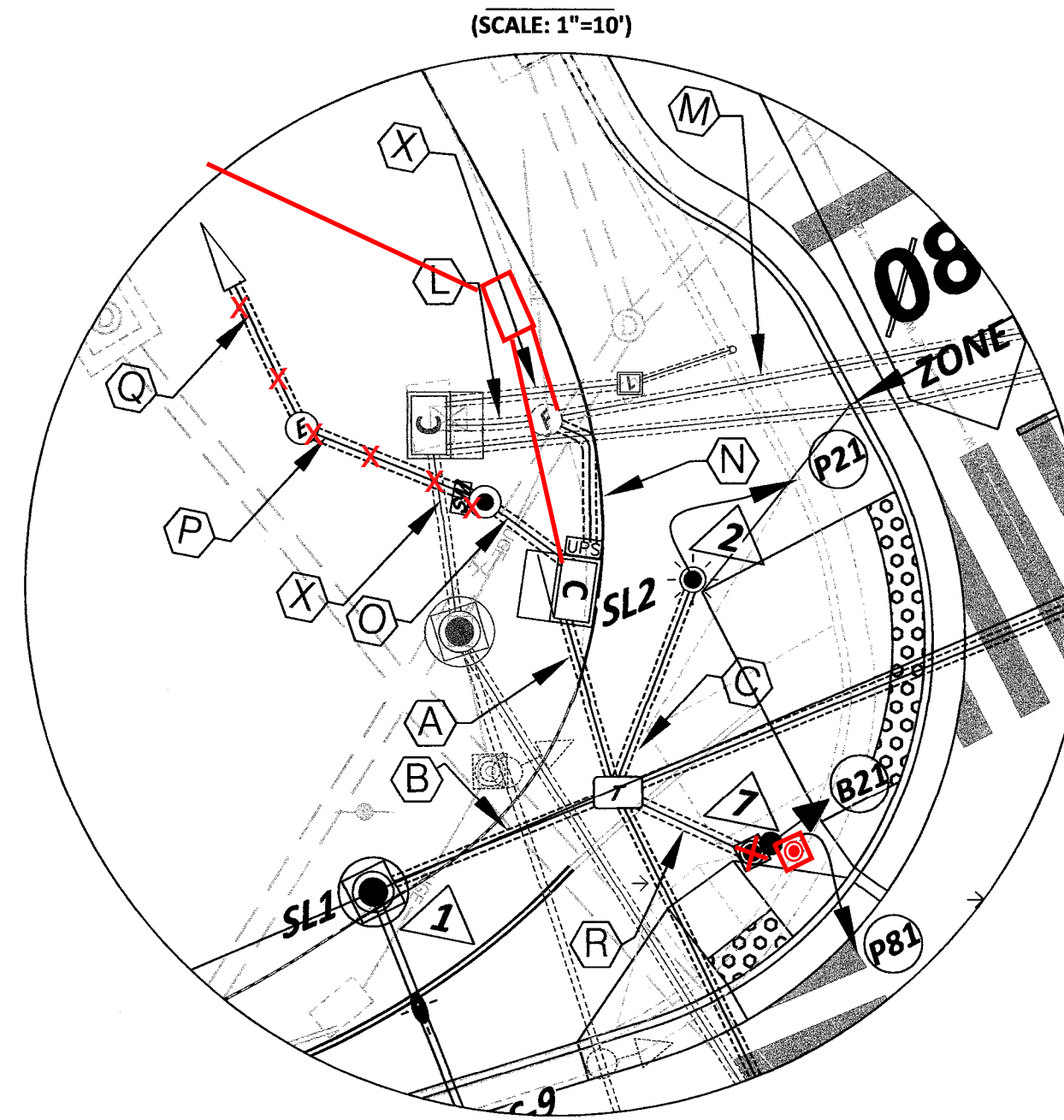


PUSHBUTTONS
PB22, PB82

PUSHBUTTONS
PB21, PB41, PB42, PB81

- 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

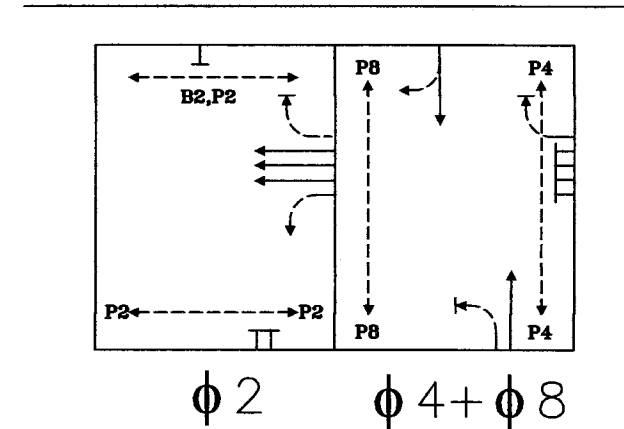
| PHASE | 2 | 4 | 8 |
|----------------------|------|------|------|
| MOVEMENT | WB | NB | SB |
| PHASE ON | X | X | X |
| PHASE OFF | | | |
| PHASE TIMINGS | | | |
| MIN. GR. | 20.0 | 20.0 | 20.0 |
| PASSAGE | 0.0 | 0.0 | 0.0 |
| AMBER | 4.0 | 4.0 | 4.0 |
| RED | 2.0 | 3.0 | 3.0 |
| MAX 1 | 40.0 | 40.0 | 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

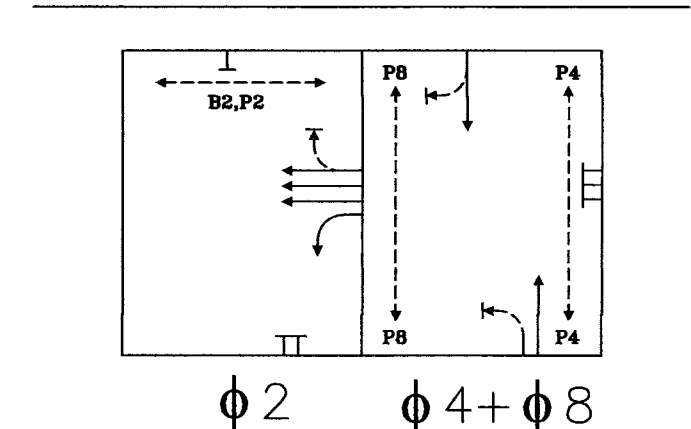
| PHASE | 2 | 4 | 8 | 4+8 |
|-------------|------|------|------|-------|
| SIGNAL | R/W | R/W | R/W | R/W |
| 21,22,23,24 | G | R | R | A |
| 41,42 | R | G | R | G |
| B1,B2 | R | R | G | G |
| P2,B2 | WALK | | | BLANK |
| P4 | | WALK | | BLANK |
| P8 | | | WALK | BLANK |

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 28' | 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 28' | 28' | 6' | 180W | 81,82,P82 | PB82 | S-1,S-5,S-7 | VD8,PE8 | S-8 |
| ▲ | PEDESTAL POLE 16' | - | - | - | B21,P81 | PB81 | S-2 | - | - |

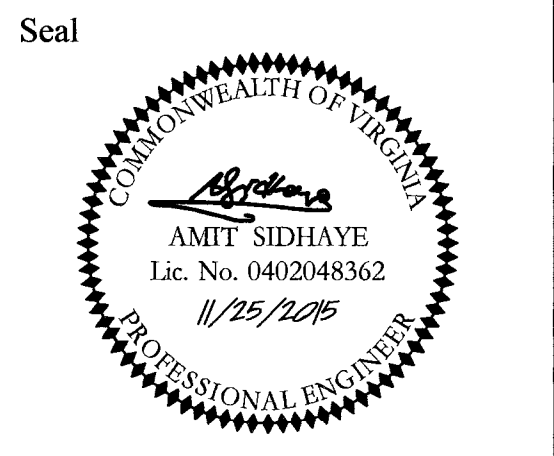
- EVP to be mounted on vehicle head mounting bracket or as approved by the engineer in the field.
- All signal heads shall be yellow in color and equipped with LED type lens.
- Cobra lighting shall be LED type (LUMEC GPLM-180W98led4k-le3-120-bl-ph8-np).
- Post top, single globe shall be HADCO LED Kit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

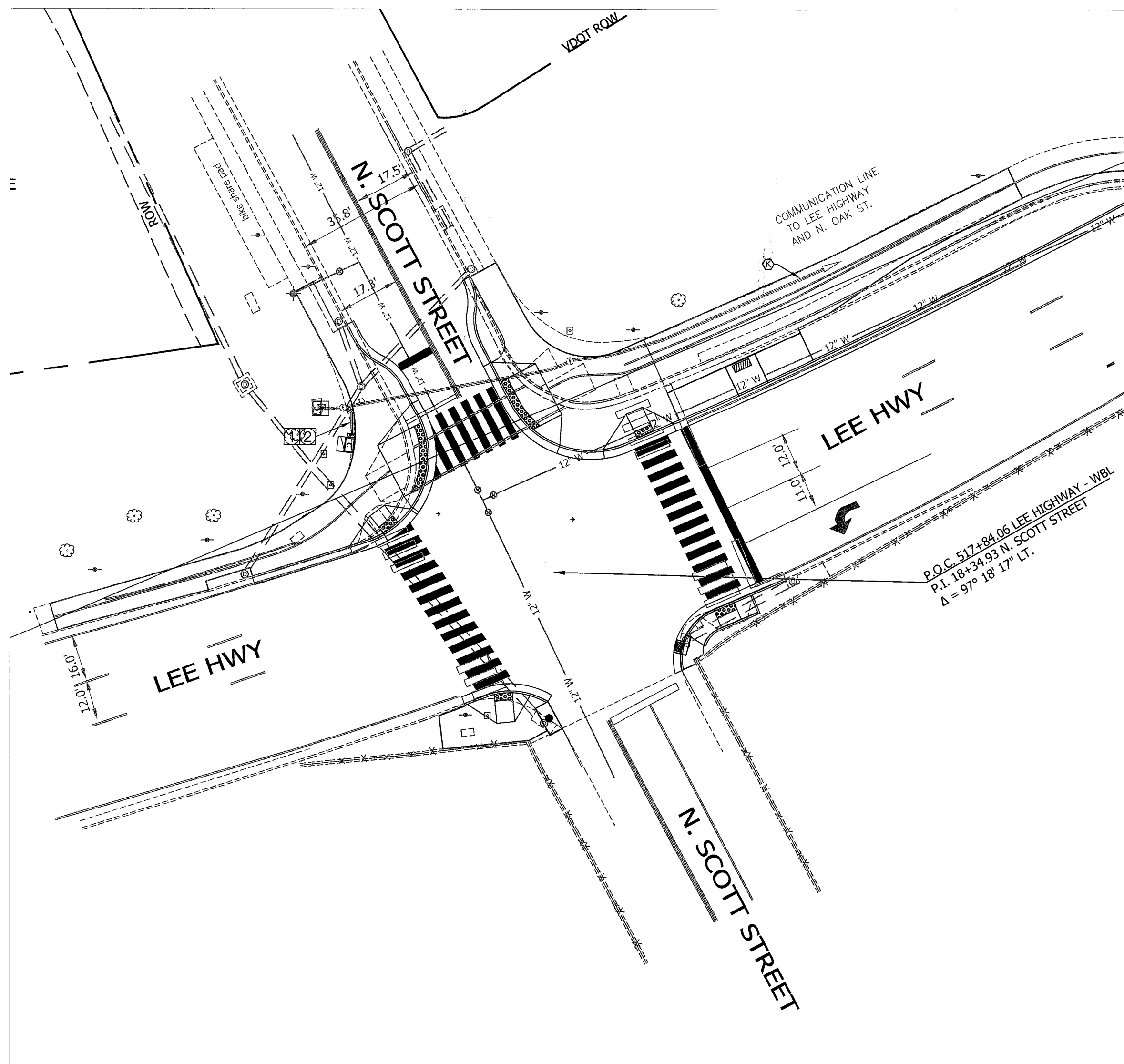
Scale: As Noted

Sheet T-2

Lee Highway & N. Scott St.

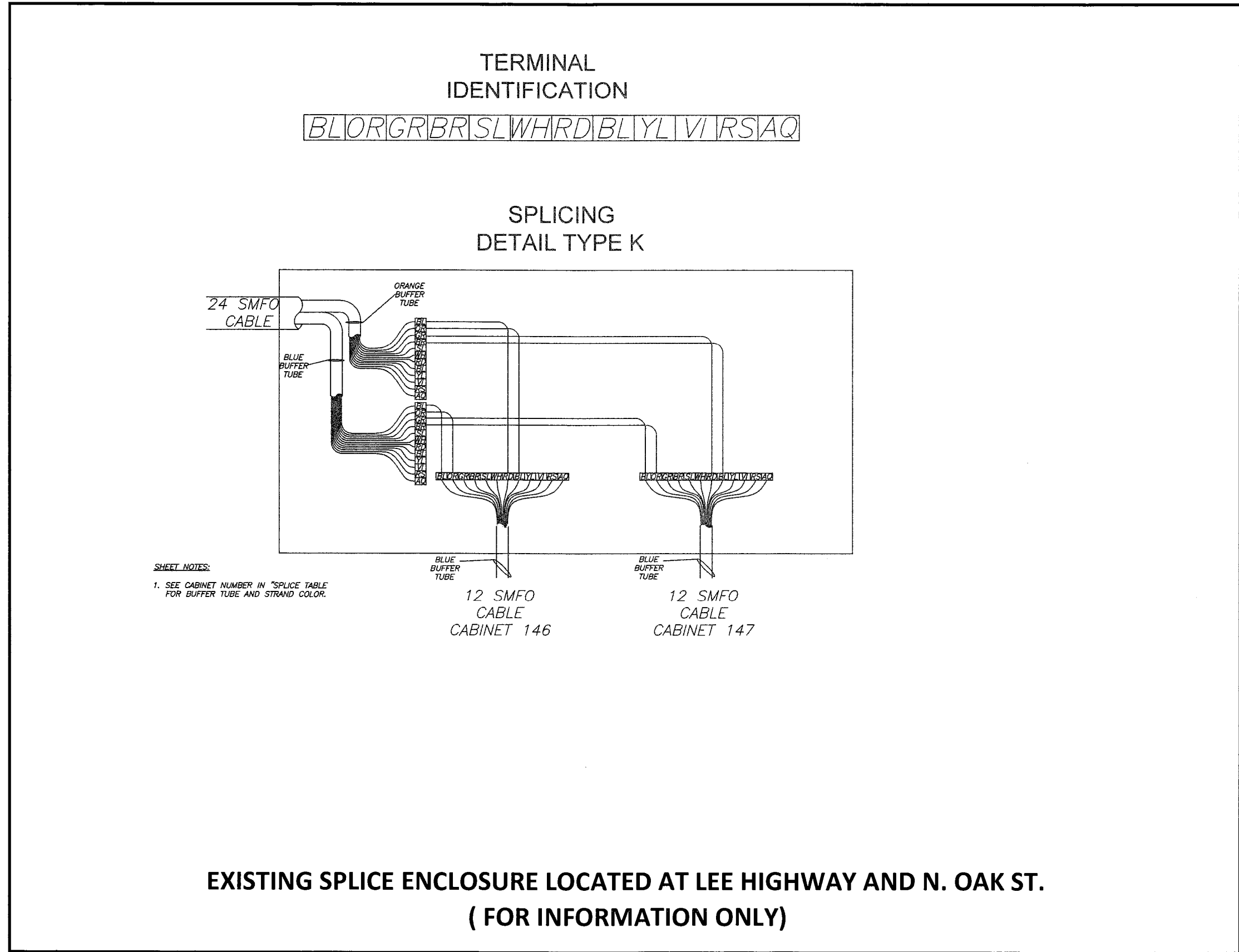
Signal Communication Plan

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.

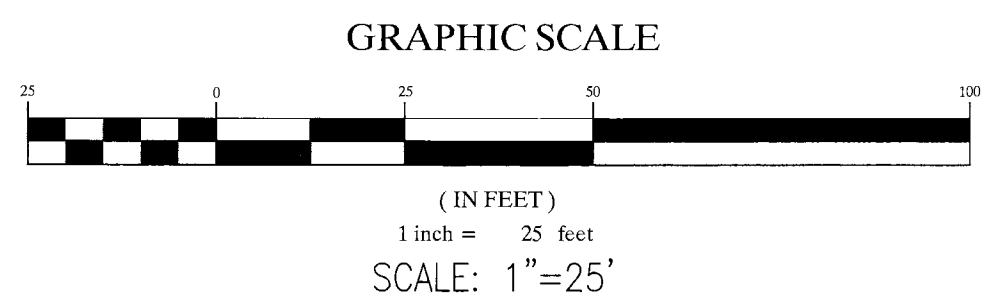
CONDUIT & CABLE

- 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.

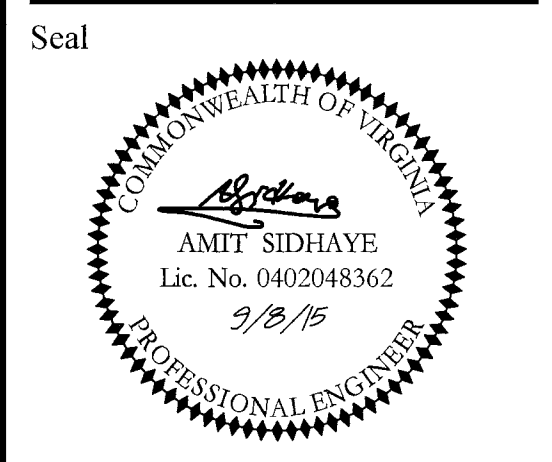
LEGEND

| | 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

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**

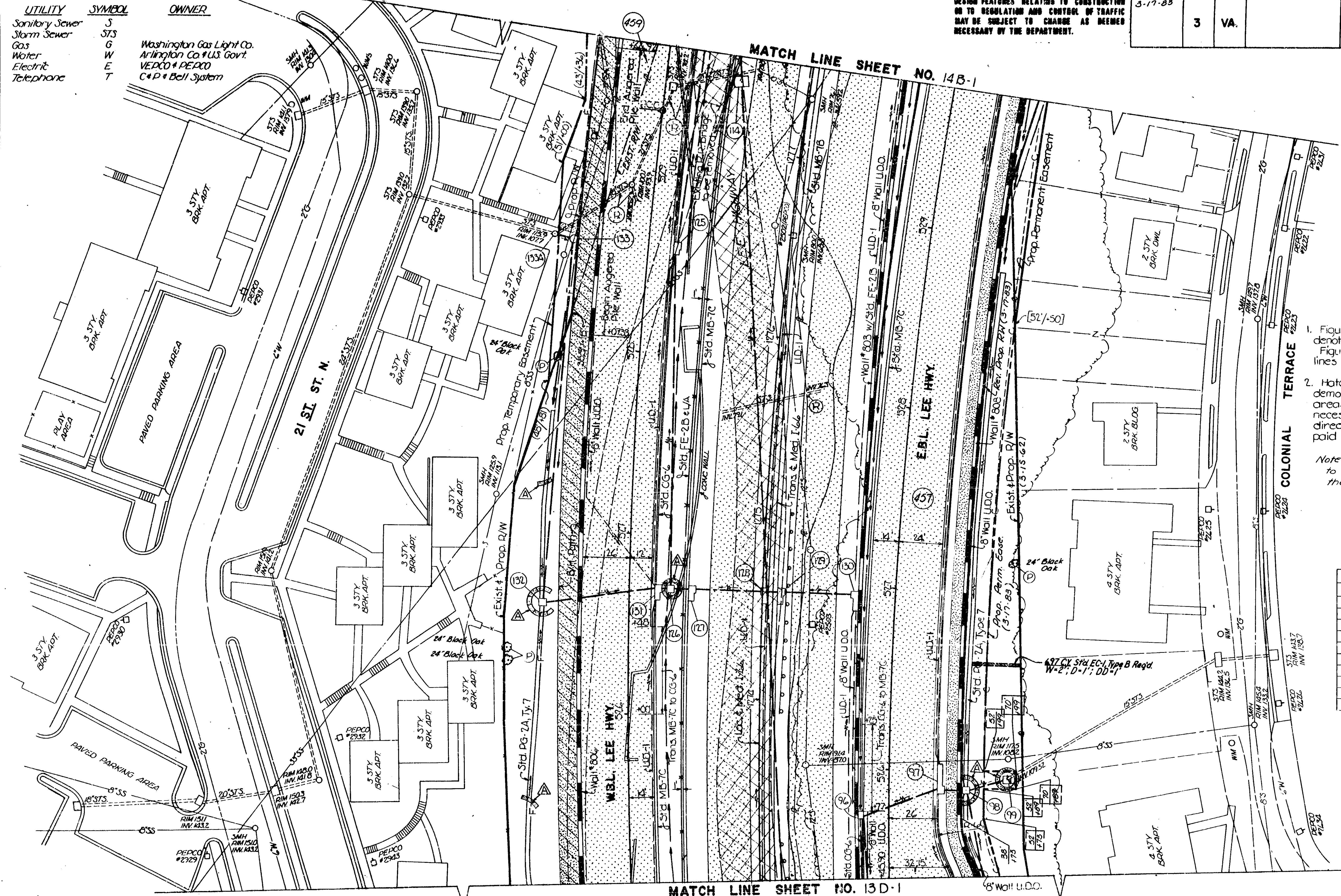
LEGEND

| 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 | 3-17-65 | VA. | | 66 | | 0066-000-102 RW-206 | 14A-1 |

MATCH LINE SHEET NO. 14B-1

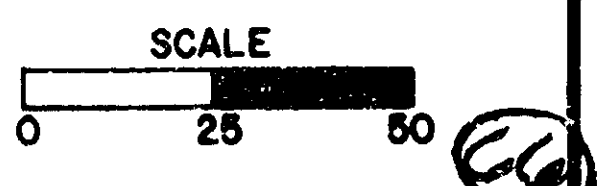


NOTES

- 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 | 0066-000-102 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.

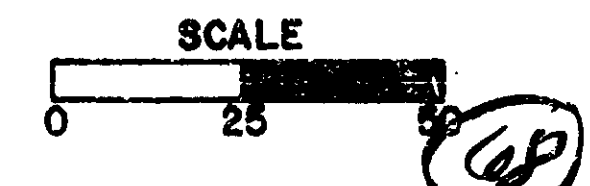
NOTES

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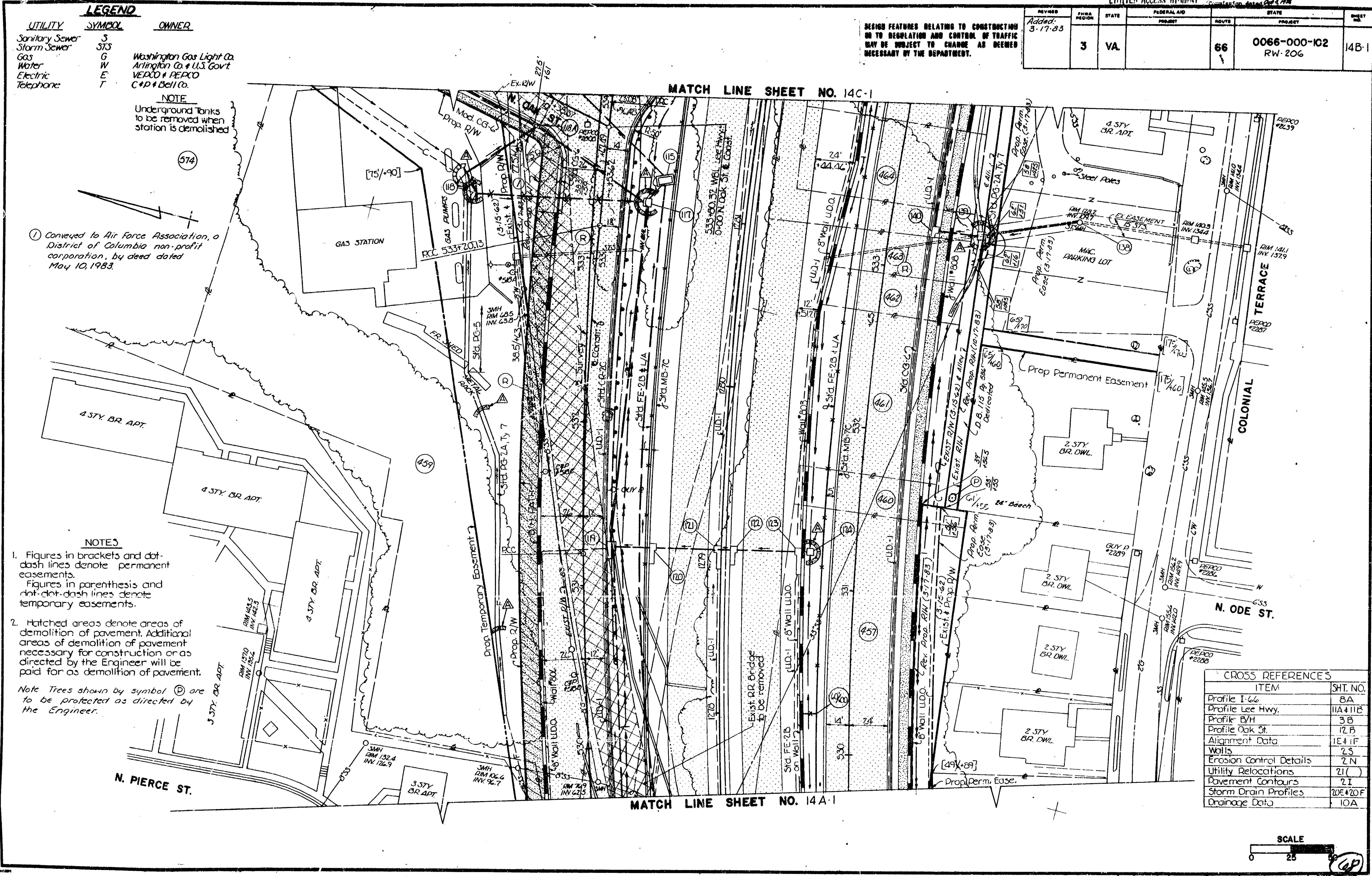
Note Trees shown by symbol (D) are to be protected as directed by the Engineer.

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



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

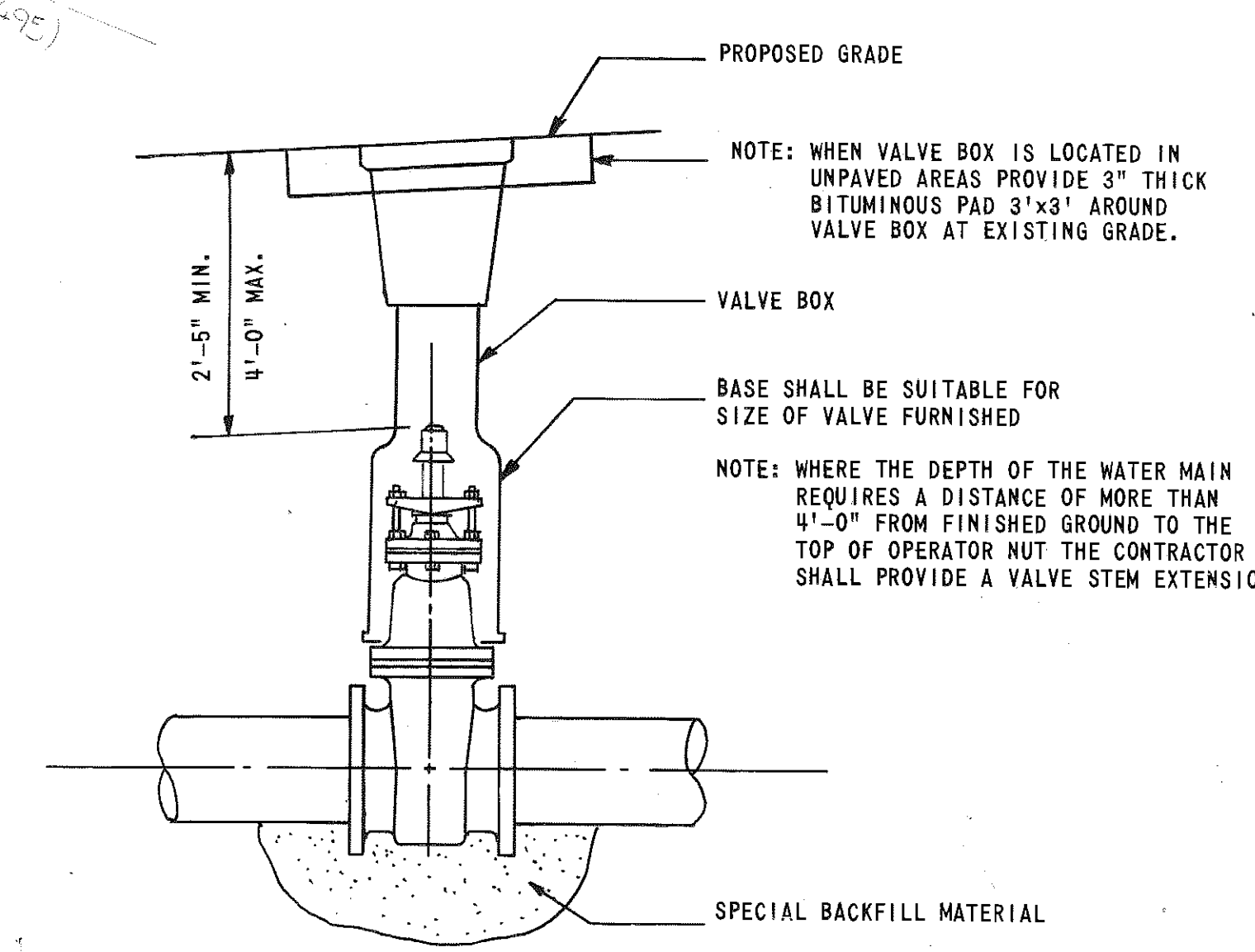
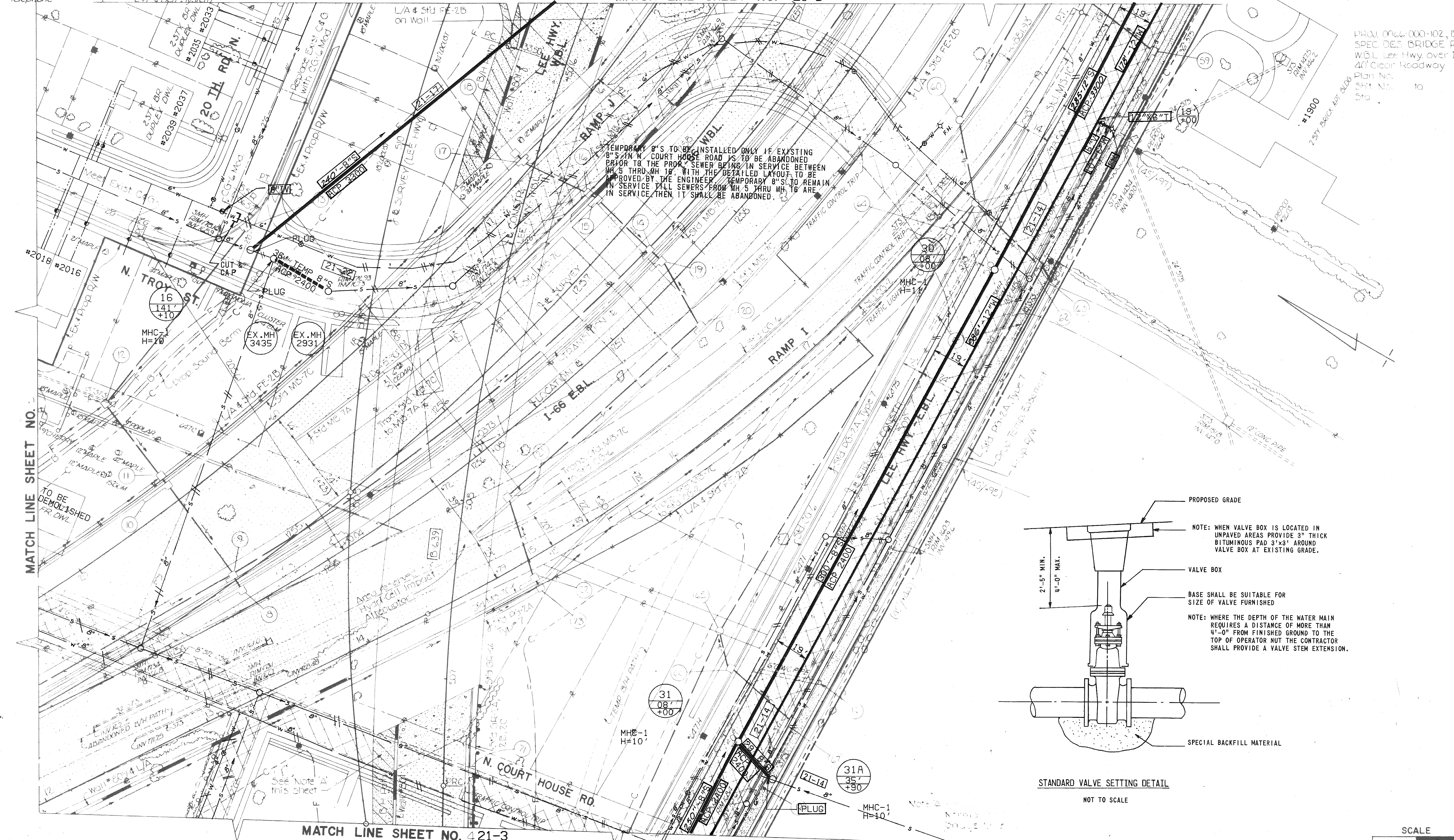
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

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

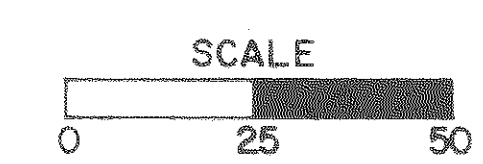
MATCH LINE SHEET NO. 721-5

TEMPORARY 8" S TO BE INSTALLED ONLY IF EXISTING 8" S IN W. COURT HOUSE ROAD IS TO BE ABANDONED PRIOR TO THE PROP. SEWER BEING IN SERVICE BETWEEN MH 5 THRU MH 18. WITH THE DETAILED LAYOUT TO BE APPROVED BY THE ENGINEER. TEMPORARY 8" S TO REMAIN IN SERVICE TILL SEWERS FROM MH 5 THRU MH 18 ARE IN SERVICE, THEN IT SHALL BE ABANDONED.

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
 150



STANDARD VALVE SETTING DETAIL
 NOT TO SCALE



MATCH LINE SHEET NO. 421-3

MATCH LINE SHEET NO.

| 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**
- 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.

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 |

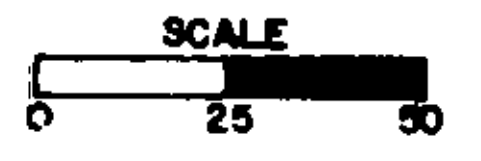
MATCH LINE SHEET NO. 21-6



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



WATER SERVICE TO BE RELOCATED BY ARLINGTON CO. #1909 20TH RD. N.

- Prop. R/W
- Prop. Temporary Easement

12" TO BE INSTALLED AFTER PROPOSED 12" IS IN SERVICE AND APPROVED BY ENGINEER.

12" BETWEEN STATIONS 513 & 514 TO BE INSTALLED AFTER 12" IS IN SERVICE BETWEEN MH 1348 MH 3 AND APPROVED BY ENGINEER.

60" SANITARY LATERAL CONNECTION (14")

PERMITS ST. 12" x 12" ACP 3300 OR RCP CL IV

TRAFFIC CONTROL TRIP

| 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

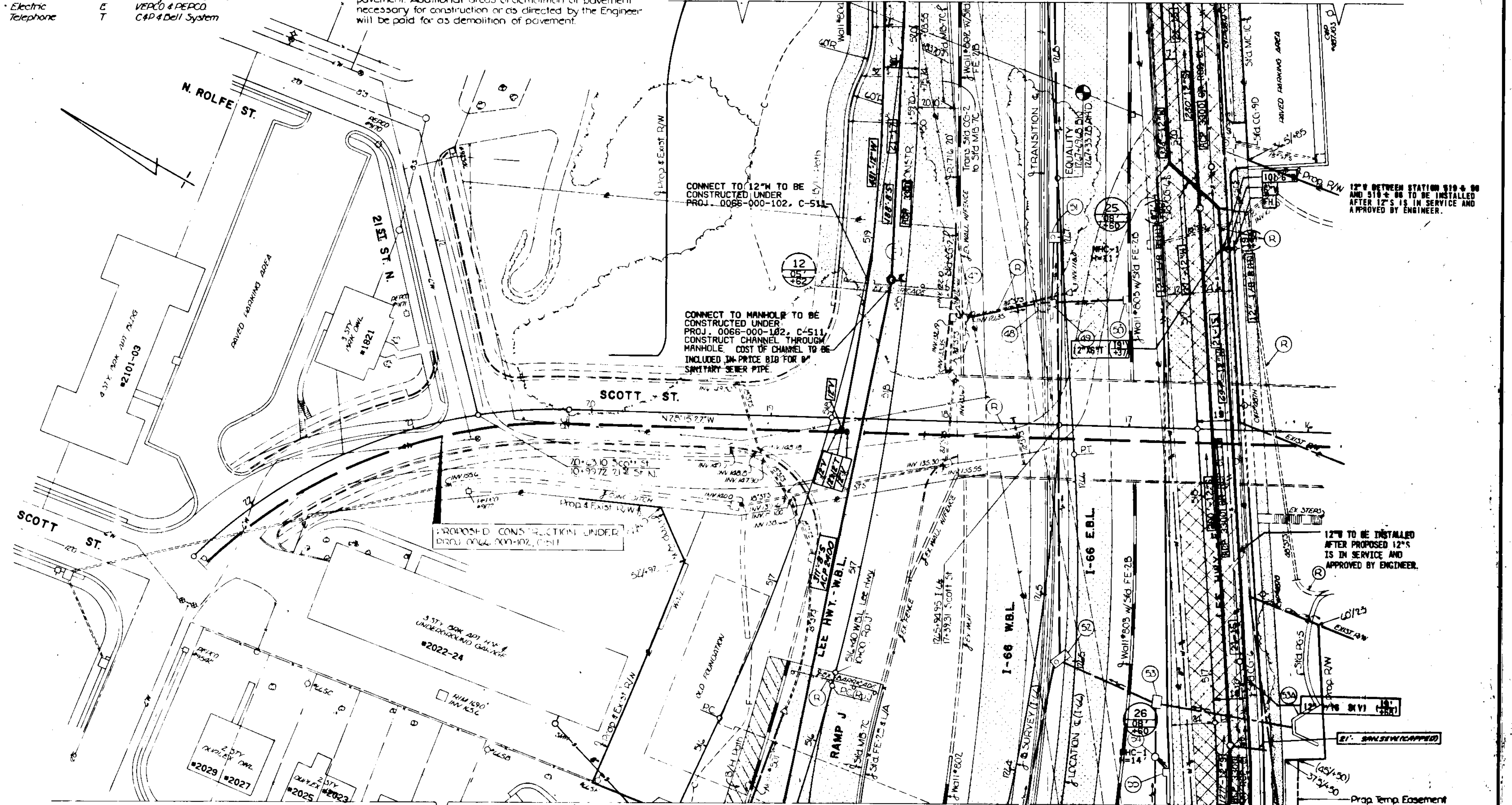
- Figures in brackets and dot-dash lines denotes permanent easements.
- Figures in parenthesis and dot-dot-dash lines denote temporary easements.
- Hatched areas denote areas of demolition of pavement. Additional areas of demolition of pavement necessary for construction or as directed by the Engineer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

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

12" TO BE INSTALLED BETWEEN STATION 519+00 AND 518+00 TO BE INSTALLED AFTER 12" IS IN SERVICE AND APPROVED BY ENGINEER.

12" TO BE INSTALLED AFTER PROPOSED 12" IS IN SERVICE AND APPROVED BY ENGINEER.



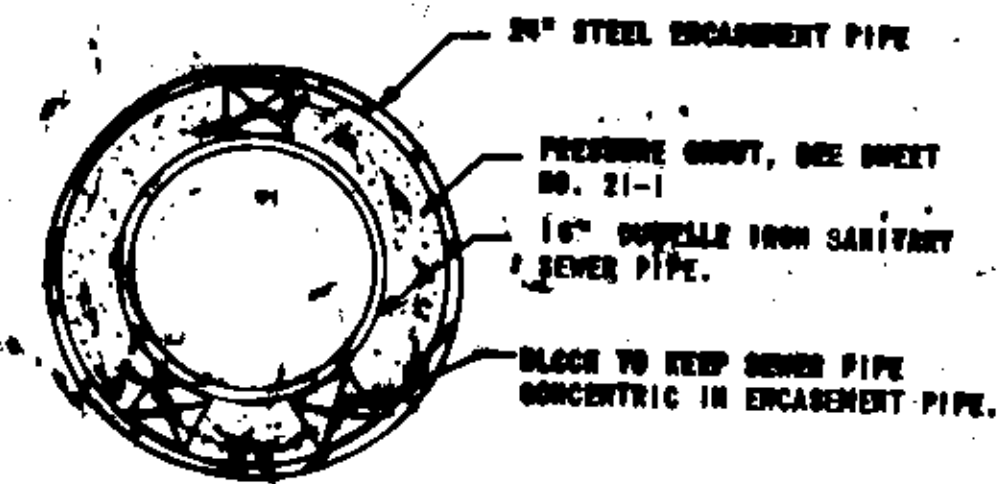
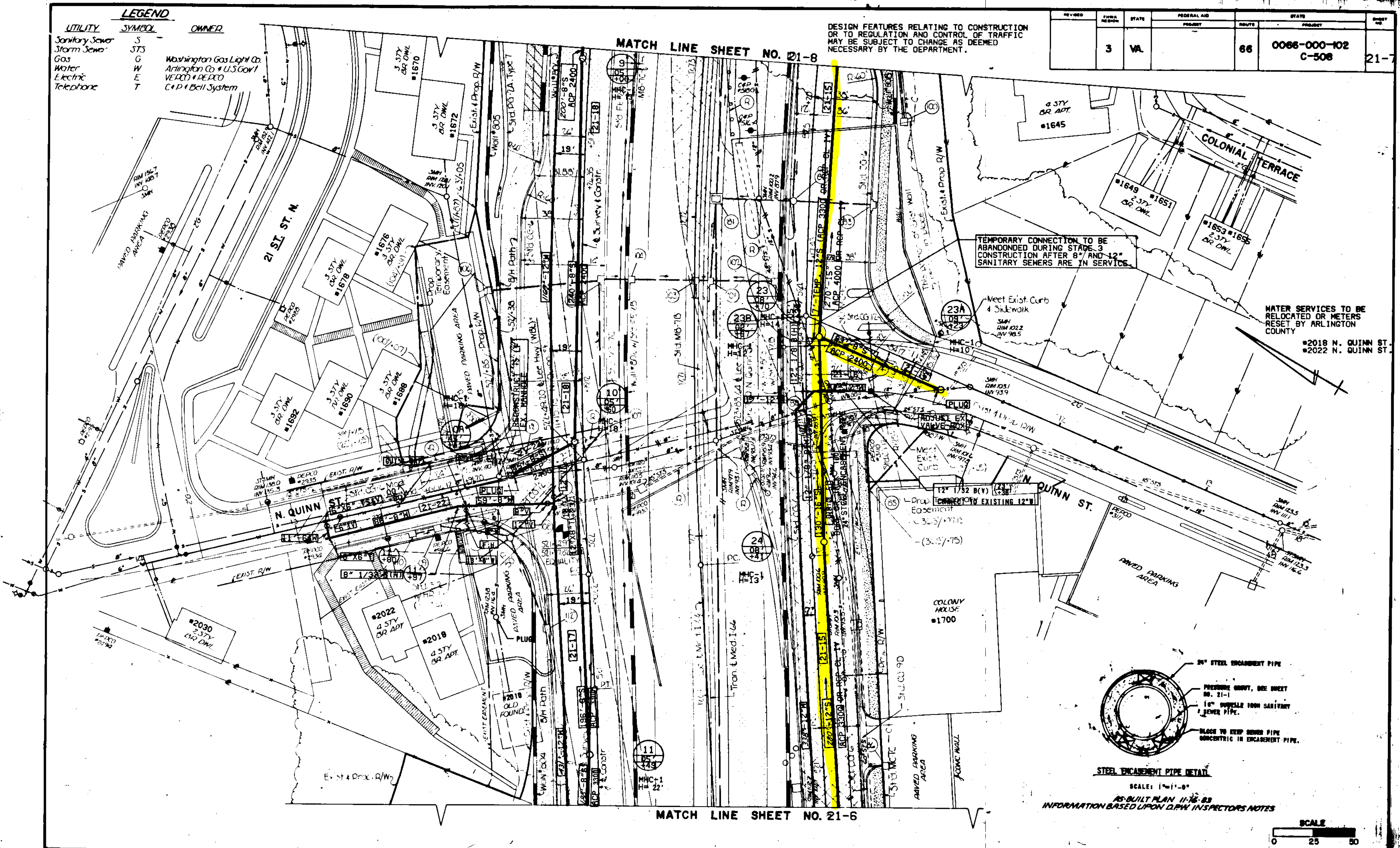
| UTILITY | SYMBOL | OWNER |
|----------------|--------|----------------------------|
| Sanitary Sewer | S | |
| Storm Sewer | STS | |
| Gas | G | Washington Gas Light Co. |
| Water | W | Arlington Co. & U.S. Gov't |
| Electric | E | VERCO & DEPCO |
| Telephone | T | C.P. & Bell System |

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

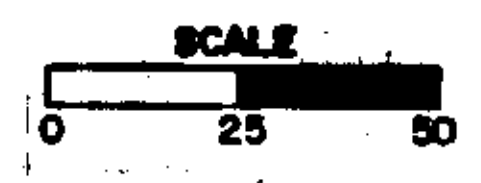
| FEDERAL AID | STATE | FEDERAL AID | STATE | ROUTE | PROJECT | SHEET NO. |
|-------------|-------|-------------|-------|-------|-----------------------|-----------|
| | 3 | VA. | | 66 | 0066-000-102 C-508 | 21-7 |

MATCH LINE SHEET NO. 21-8

MATCH LINE SHEET NO. 21-6



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



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

| FEDERAL AID PROJECT | ROUTE | STATE | FEDERAL AID PROJECT | 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



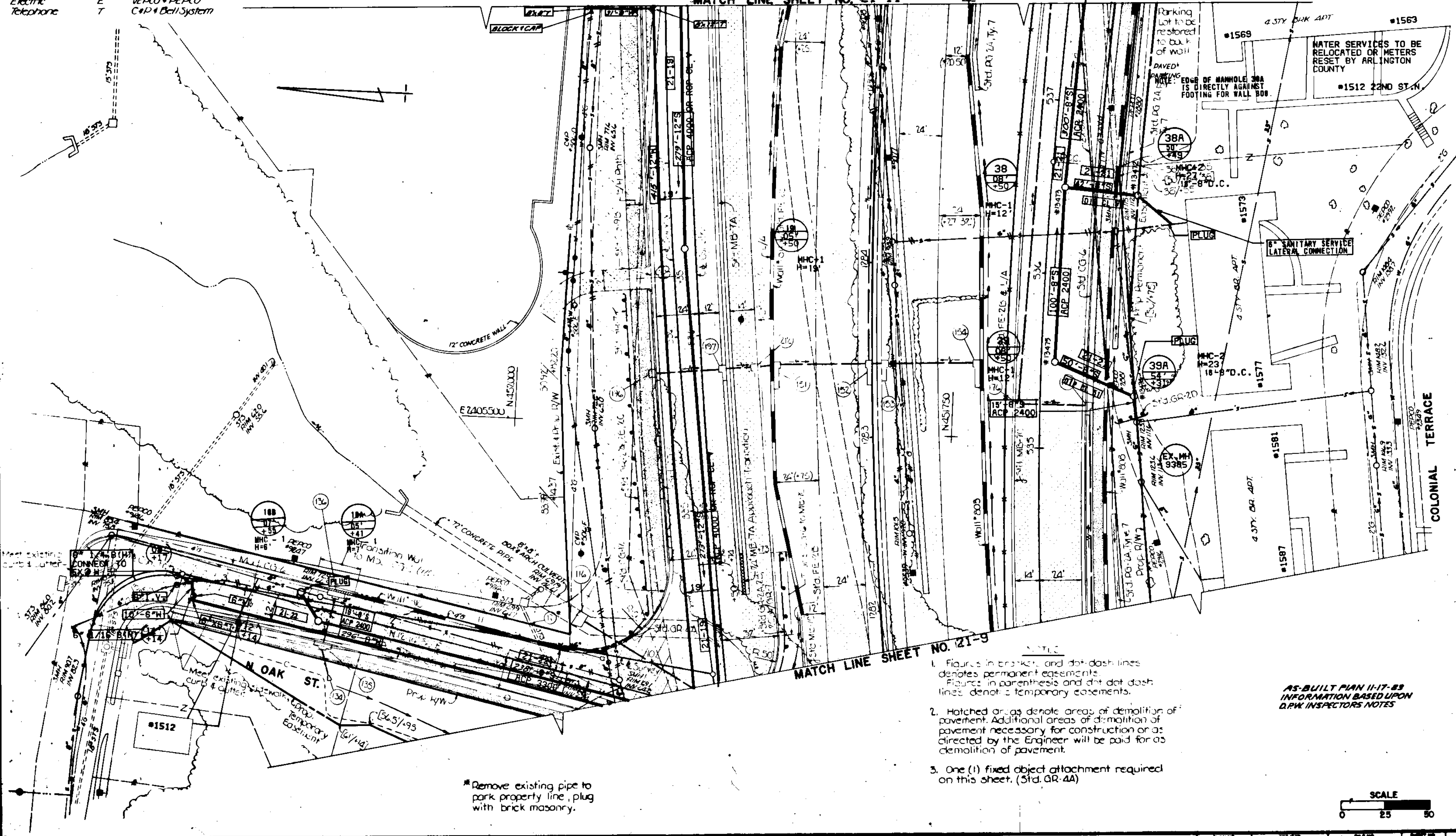
| REVISED | FHWA REGION | STATE | FEDERAL AID PROJECT | ROUTE | STATE PROJECT | SHEET NO. |
|---------|-------------|-------|---------------------|-------|-----------------------|-----------|
| | 3 | VA. | | 66 | 0066-000-102 C-508 | 21-10 |

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

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 | VEPCO & PEPCO |
| Telephone | T | C&P & Bell System |



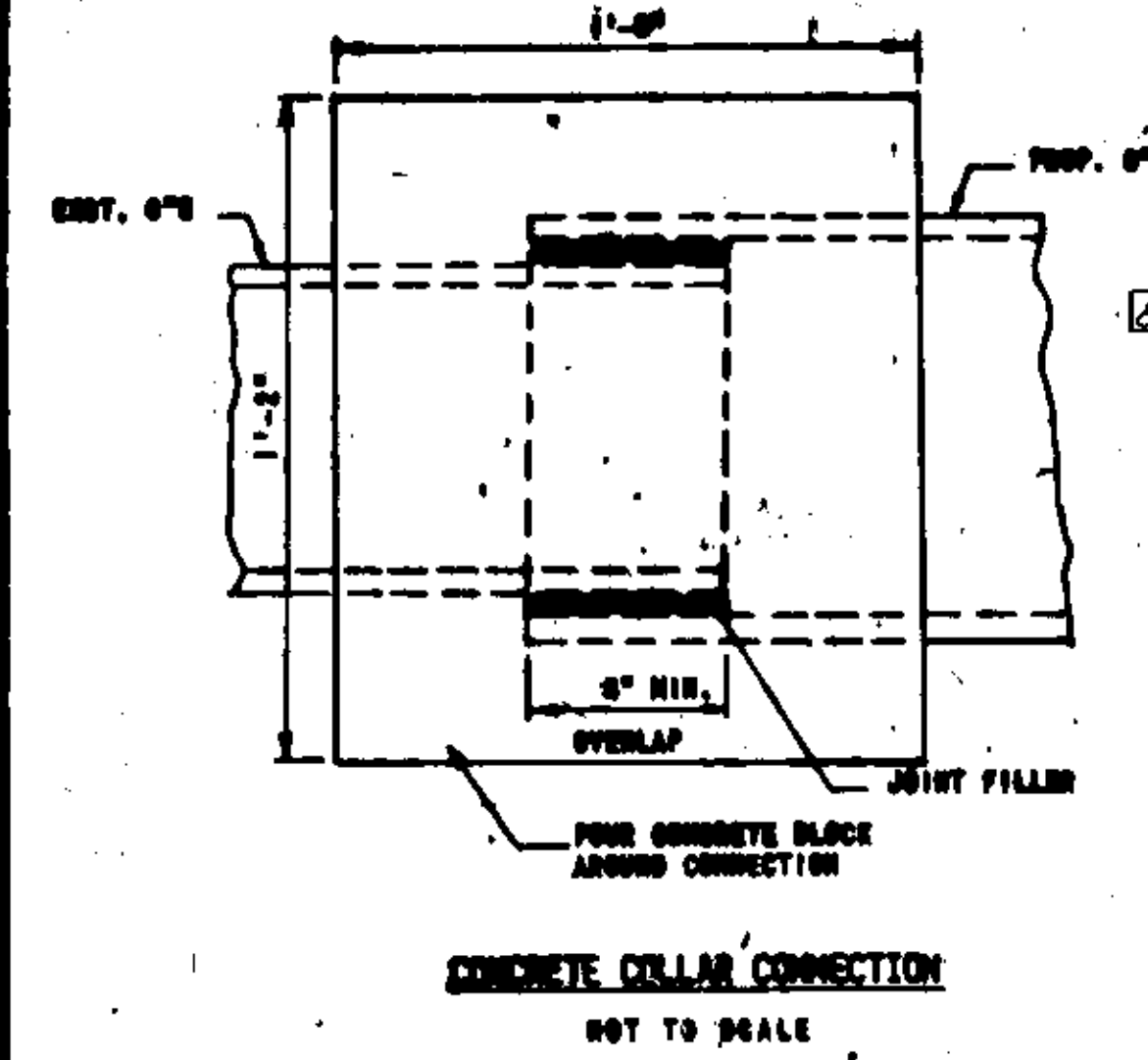
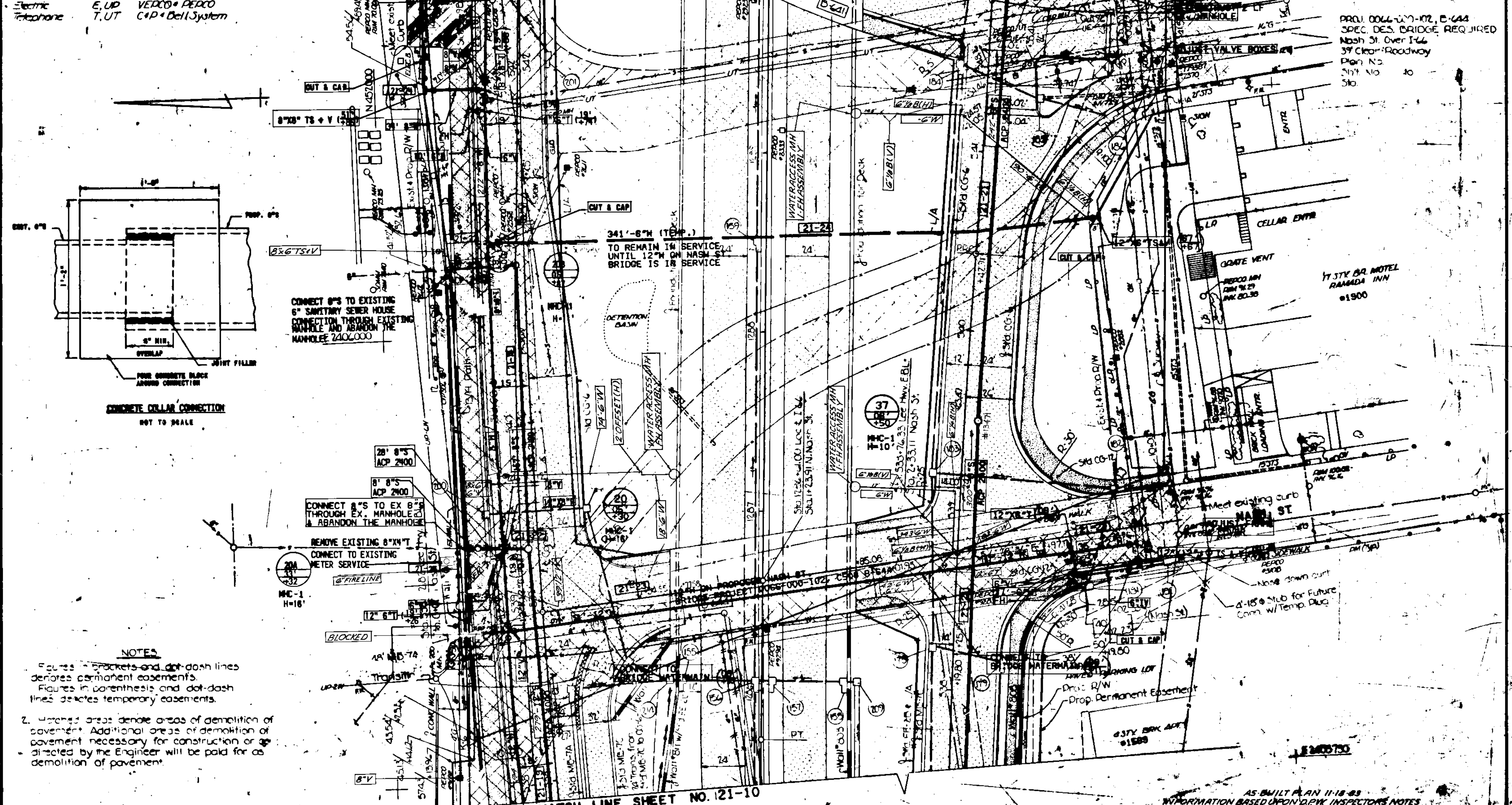
LEGEND

| 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"x4" T. CONNECT TO EXISTING METER SERVICE

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.

MATCH LINE SHEET NO. 21-10

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

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

17 STY BRK HOTEL RAMADA INN #1900

637Y BRK ACFT #1589

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.

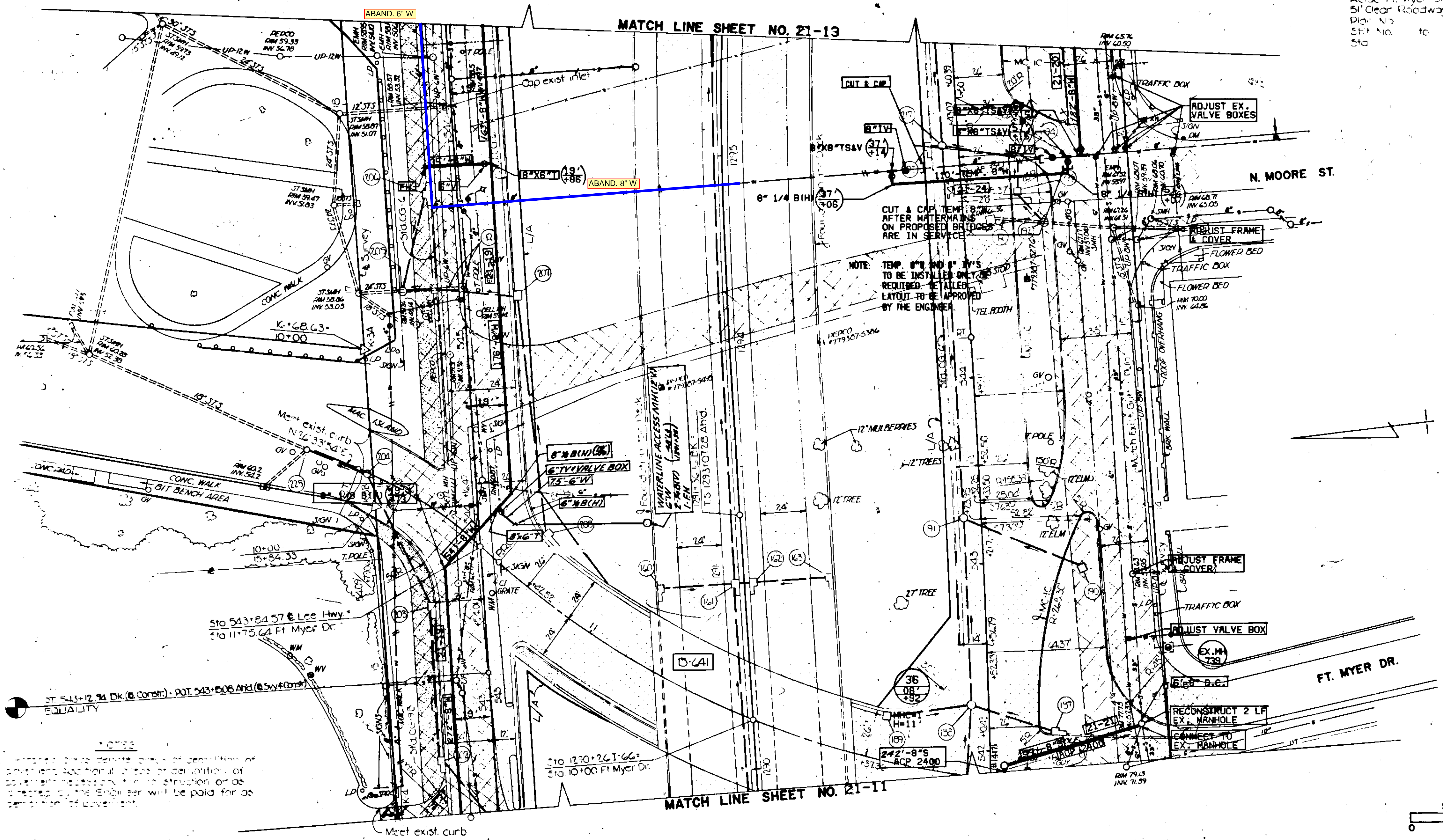
| REVISED | FEDERAL AID | STATE | ROUTE | PROJECT | SHEET NO. |
|---------|-------------|-------|-------|-----------------------|-----------|
| 3 | VA. | | 66 | 0066-000-102 C-508 | 21-12 |

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

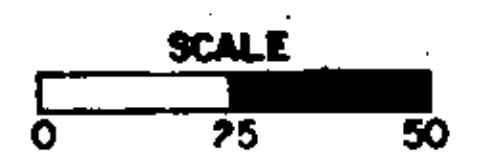
MATCH LINE SHEET NO. 21-11



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

CUT & CAP TEMP. 8" TV'S AFTER WATER MAINS ON PROPOSED BRIDGES ARE IN SERVICE

NOTES:
1. All work shall be done in accordance with the specifications of the Department of Transportation, Virginia, and the Department of Public Works, Arlington County, Virginia.
2. All work shall be done in accordance with the specifications of the Department of Public Works, Arlington County, Virginia.
3. All work shall be done in accordance with the specifications of the Department of Public Works, Arlington County, Virginia.



LEGEND

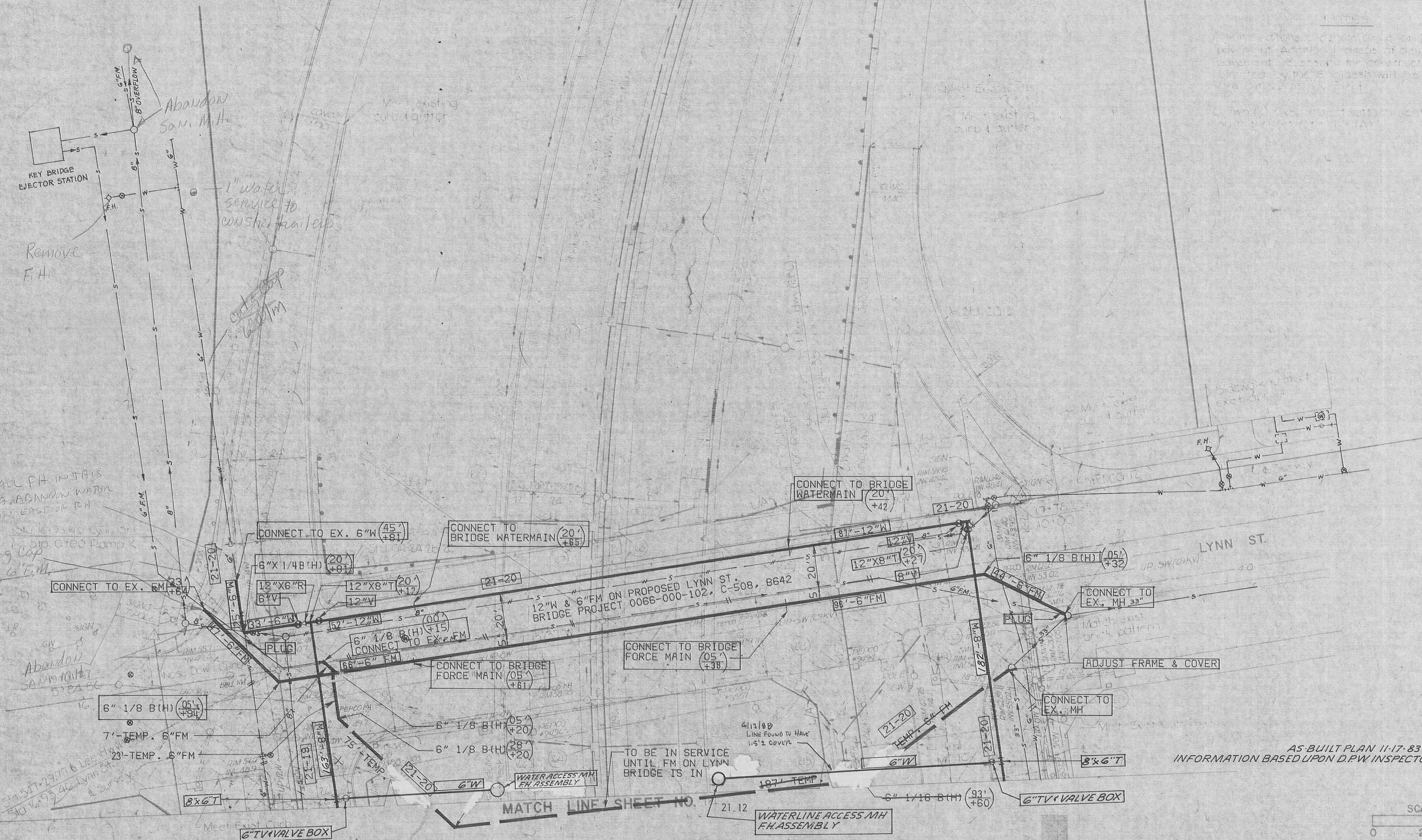
| UTILITY | SYMBOL | OWNER |
|----------------|--------|--------------------------|
| Sanitary Sewer | S | |
| Storm Sewer | STS | |
| Gas | G | Washington Gas Light Co. |
| Water | W | Arlington Co. & US Govt. |
| Electric | E, UP | VEPCO & DEPCO |
| Telephone | T | C&P & Bell System |

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

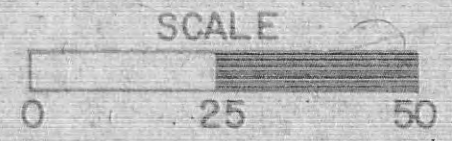
| REVISED | FHWA REGION | STATE | FEDERAL AID PROJECT | ROUTE | STATE PROJECT | SHEET NO. |
|---------|-------------|-------|---------------------|-------|-----------------------|-----------|
| | 3 | VA. | | 66 | 0066-000-102 C-508 | 21-13 |

PLD. 002. 00002 P. 042
 1.50 DEPT. REQUIRED
 1.50 DEPT. REQUIRED
 1.50 DEPT. REQUIRED
 1.50 DEPT. REQUIRED
 1.50 DEPT. REQUIRED
 1.50 DEPT. REQUIRED

NOTES
 1. All structures shall be constructed in accordance with the Department of Transportation Specifications for Highway Structures, 1981 Edition, as amended.
 2. All structures shall be constructed in accordance with the Department of Transportation Specifications for Highway Structures, 1981 Edition, as amended.
 3. All structures shall be constructed in accordance with the Department of Transportation Specifications for Highway Structures, 1981 Edition, as amended.

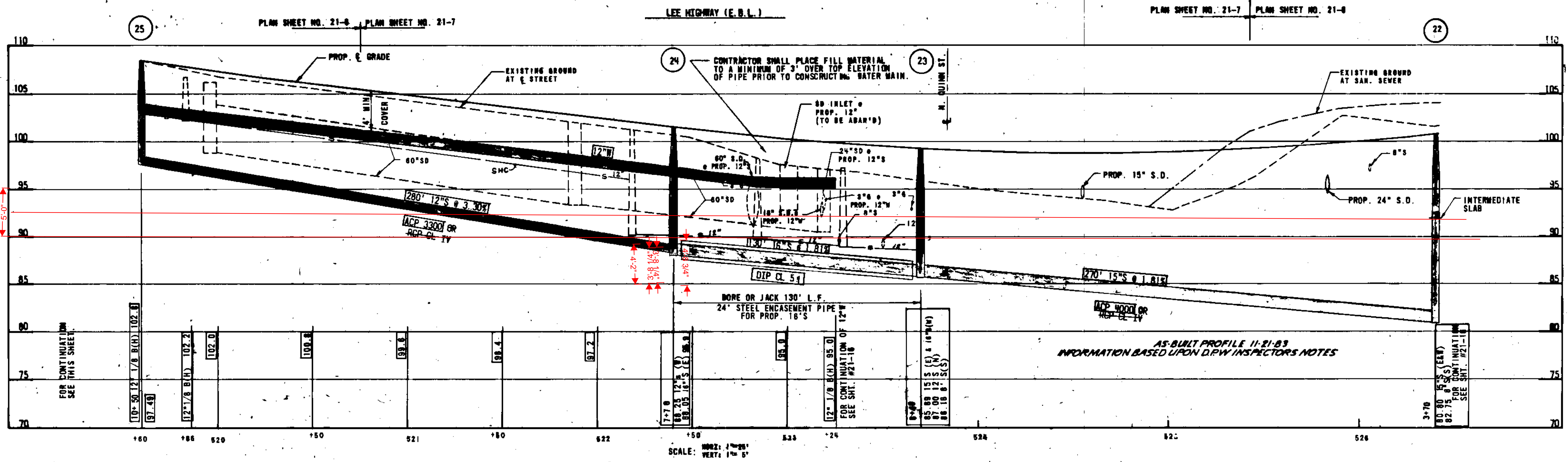
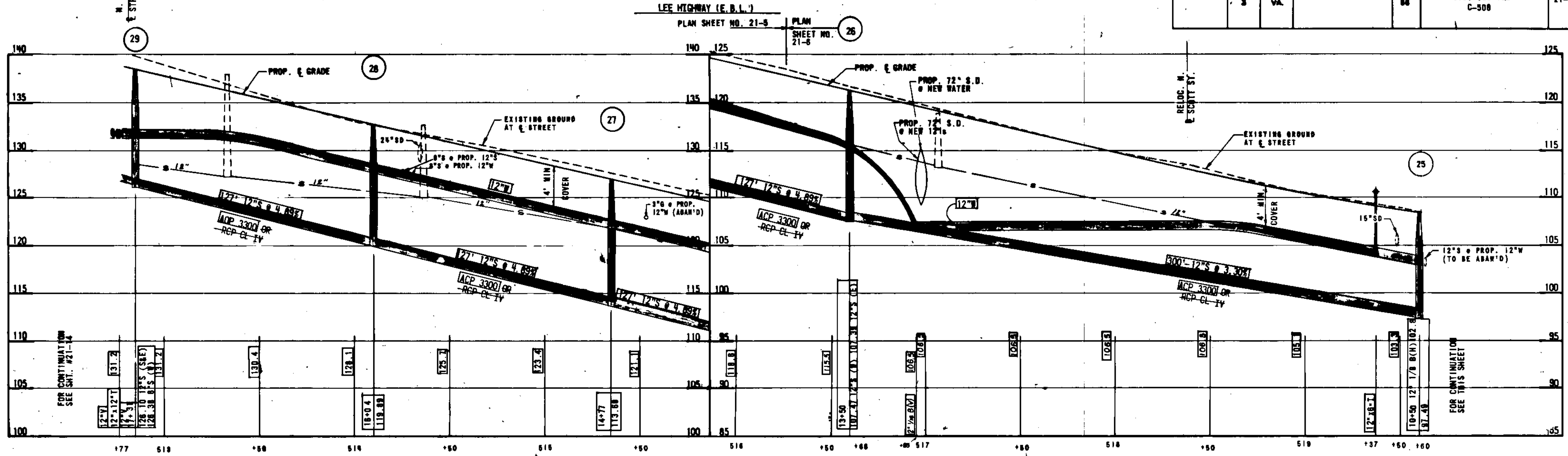


AS-BUILT PLAN 11-17-83
 INFORMATION BASED UPON D.P.W. INSPECTORS NOTES



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

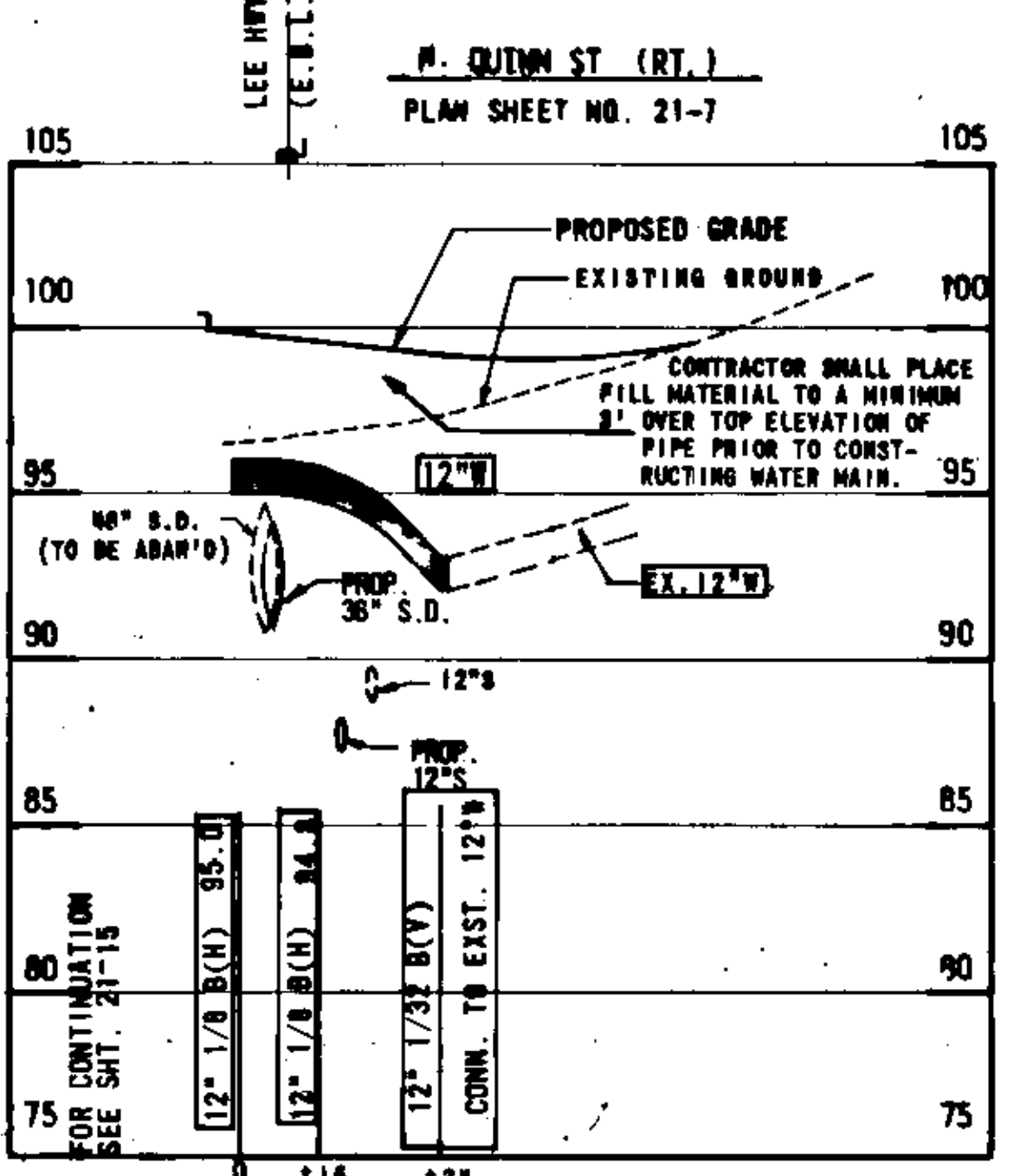
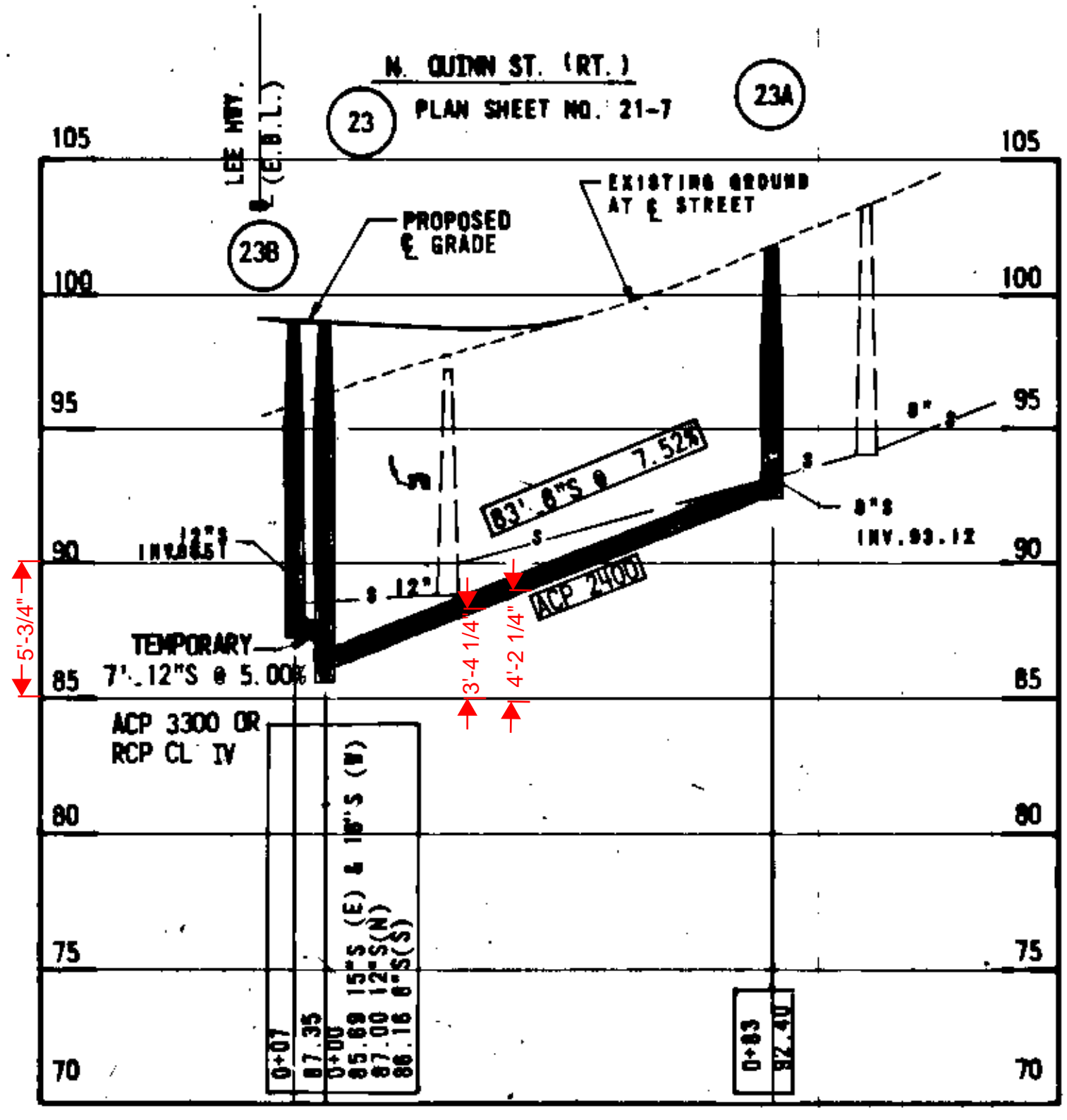
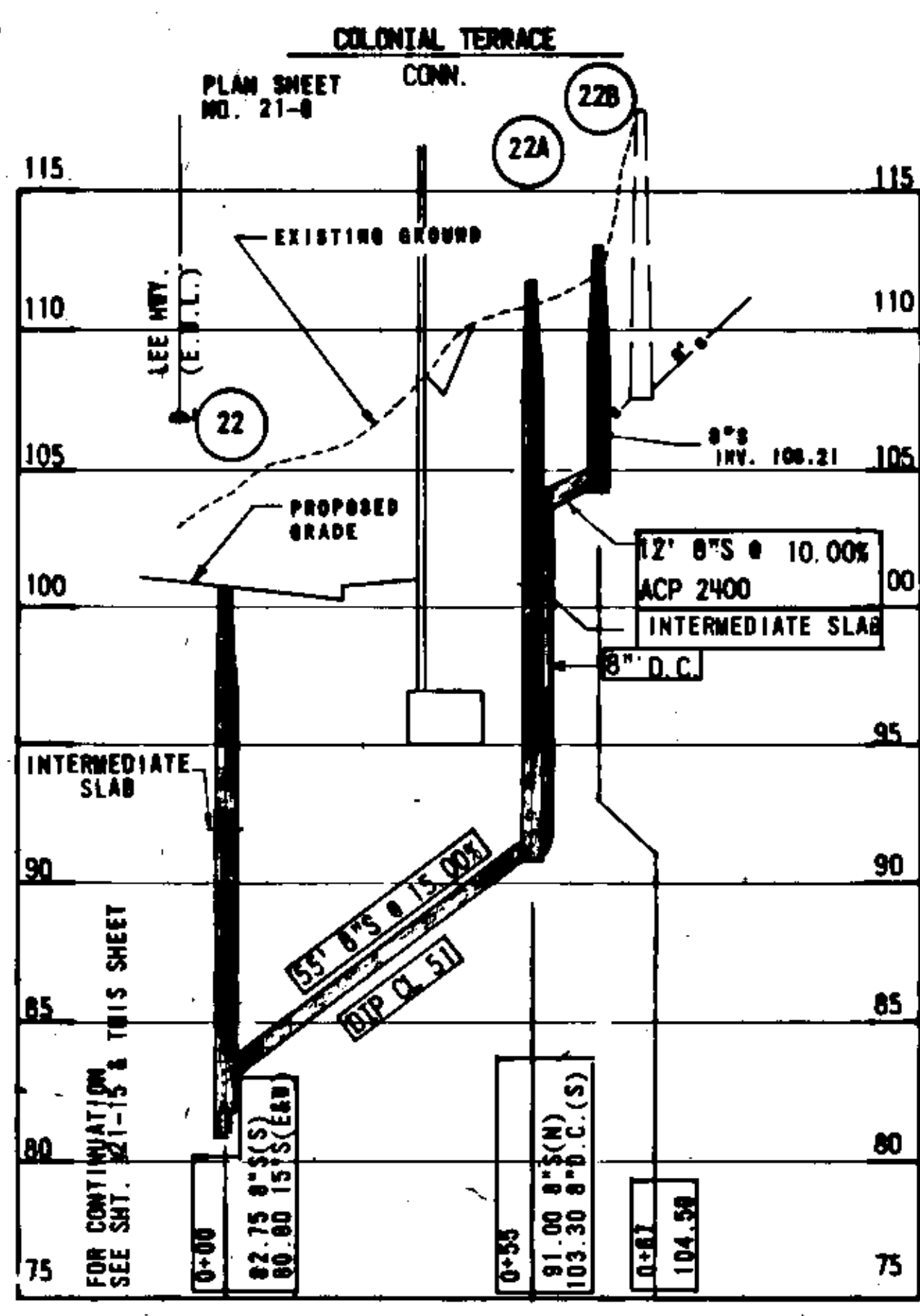
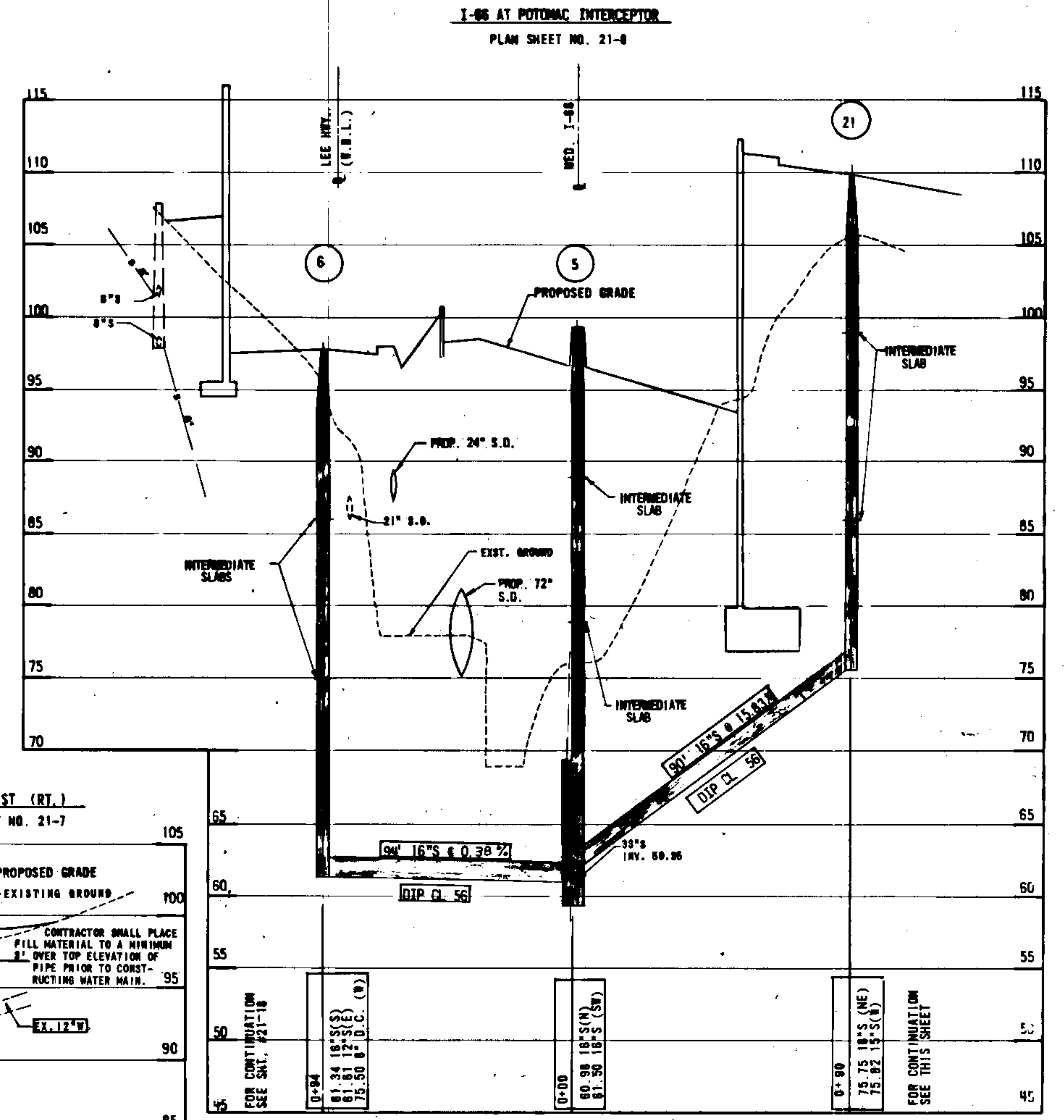
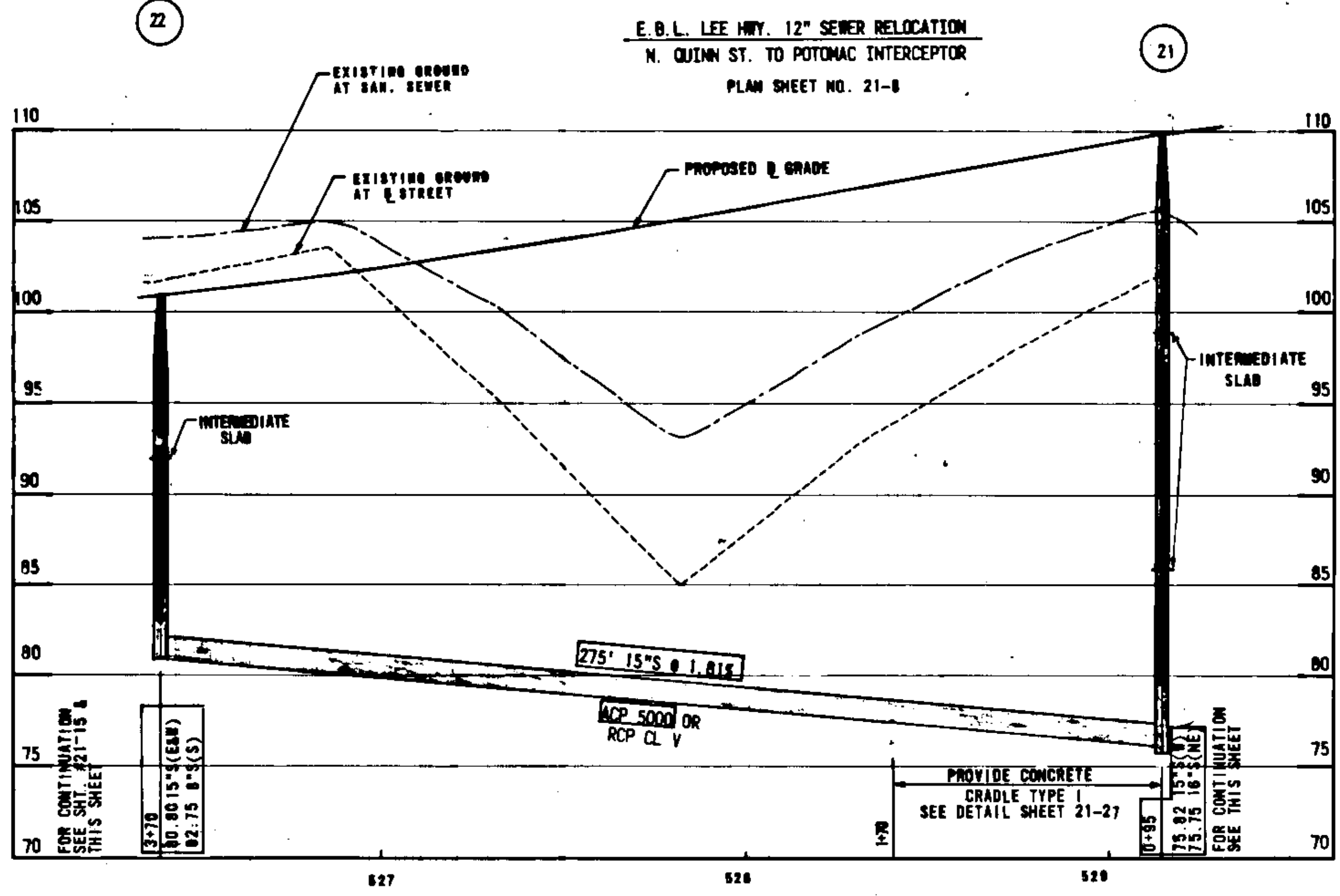
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|---|------------------|--------------|------------------------|-------------|---|--------------------|
| REVISED 8-28-79 3-26-80 4-7-80 | FHWA REGION 3 | STATE VA. | FEDERAL AID PROJECT | ROUTE 88 | STATE PROJECT 0088-000-102 C-508 | SHEET NO. 21-15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



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 |



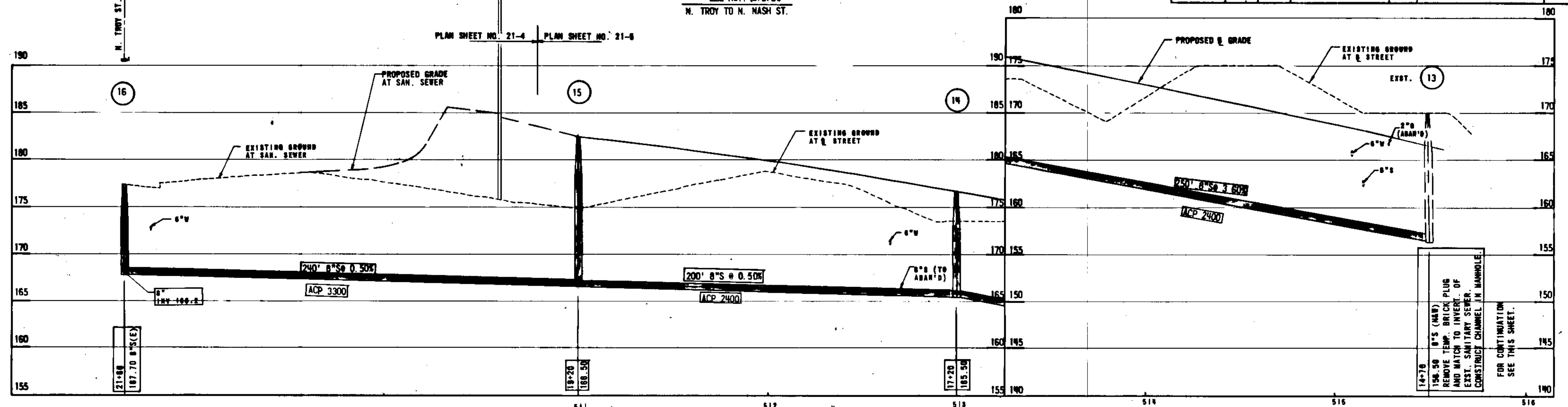
AS-BUILT PROFILE 11-22-83
INFORMATION BASED UPON D.P.W. INSPECTORS NOTES

SCALE: HORIZ: 1"=88'
VERT: 1"=5'

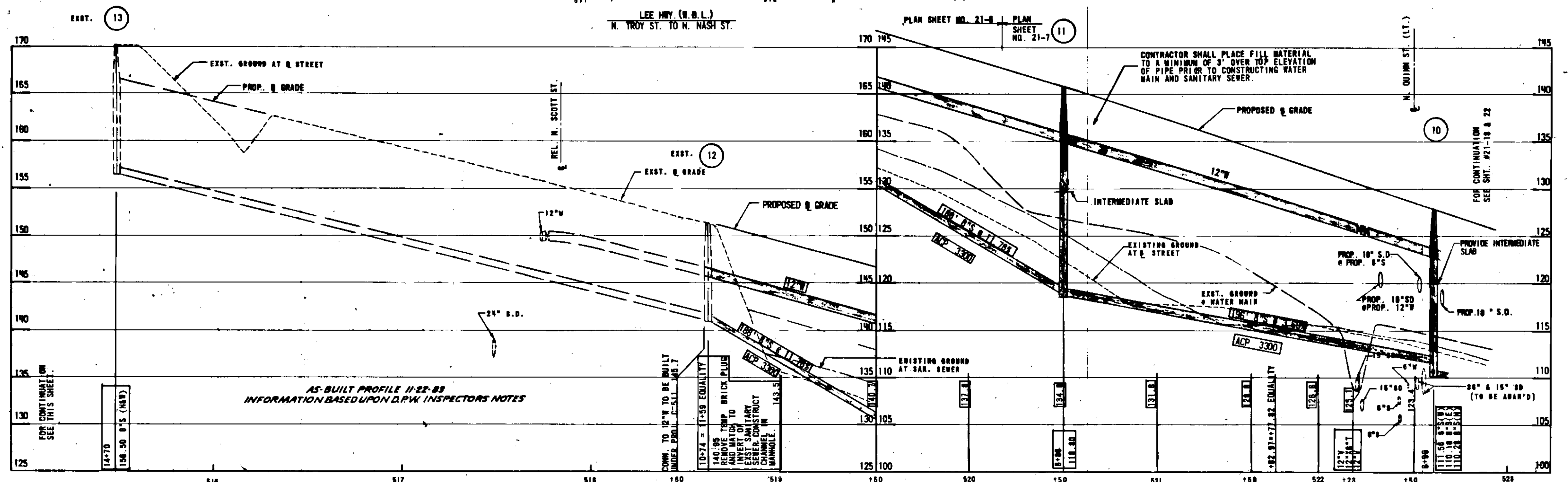
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

| REVISED | FHWY 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'

FOR CONTINUATION
SEE THIS SHEET.

FOR CONTINUATION
SEE SHT. #21-18 & 22

14+70
158.50 8" S (NEW)
REMOVE TEMP. BRICK PLUG
AND WATCH TO INVERT OF
EXIST. SANITARY SEWER.
CONSTRUCT CHANNEL IN MANHOLE.
FOR CONTINUATION
SEE THIS SHEET.

10+74 = 11+88 EQUALITY
140.85
REMOVE TEMP BRICK PLUG
AND WATCH TO
INVERT OF
EXIST. SANITARY
SEWER. CONSTRUCT
CHANNEL IN
MANHOLE. 143.35

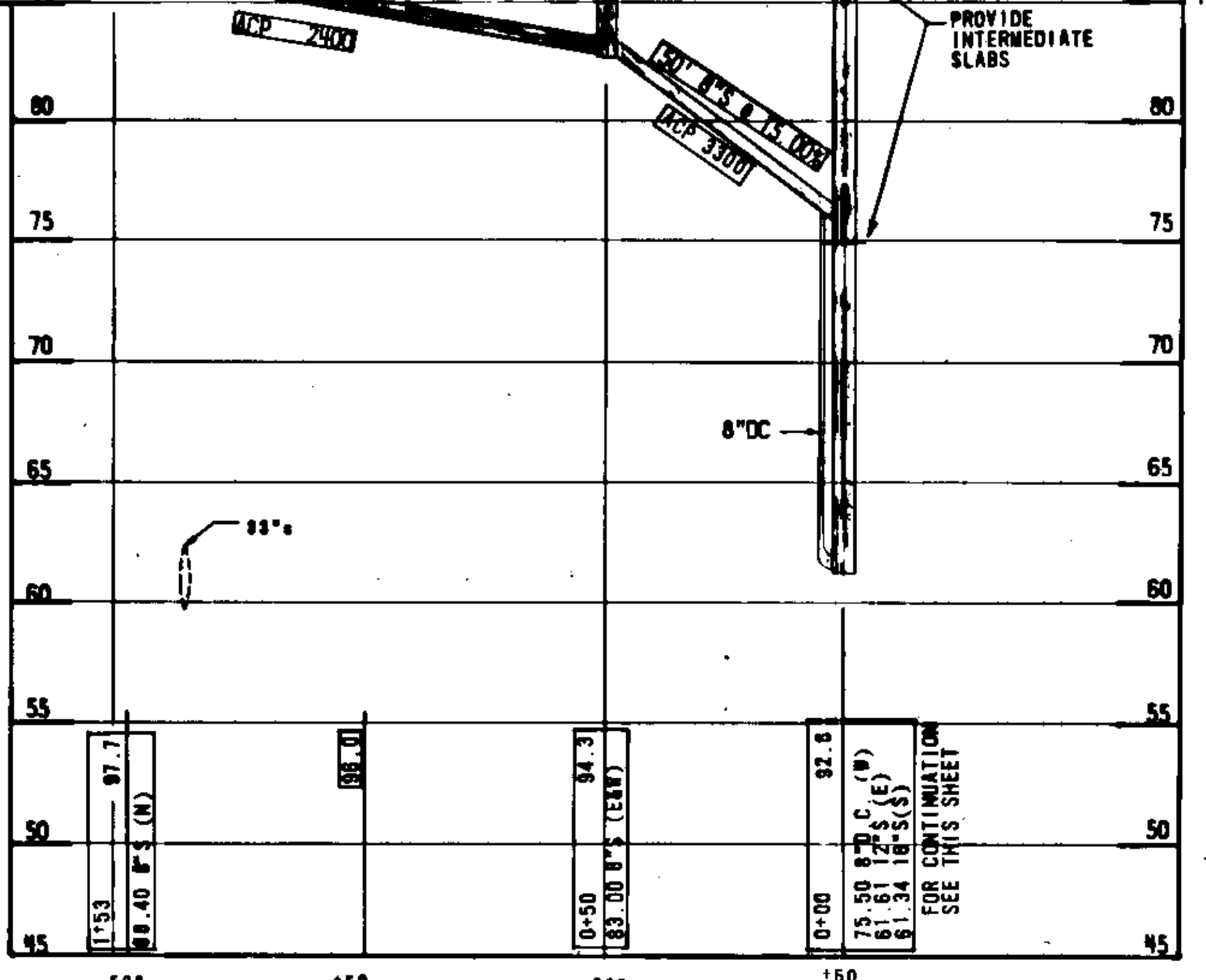
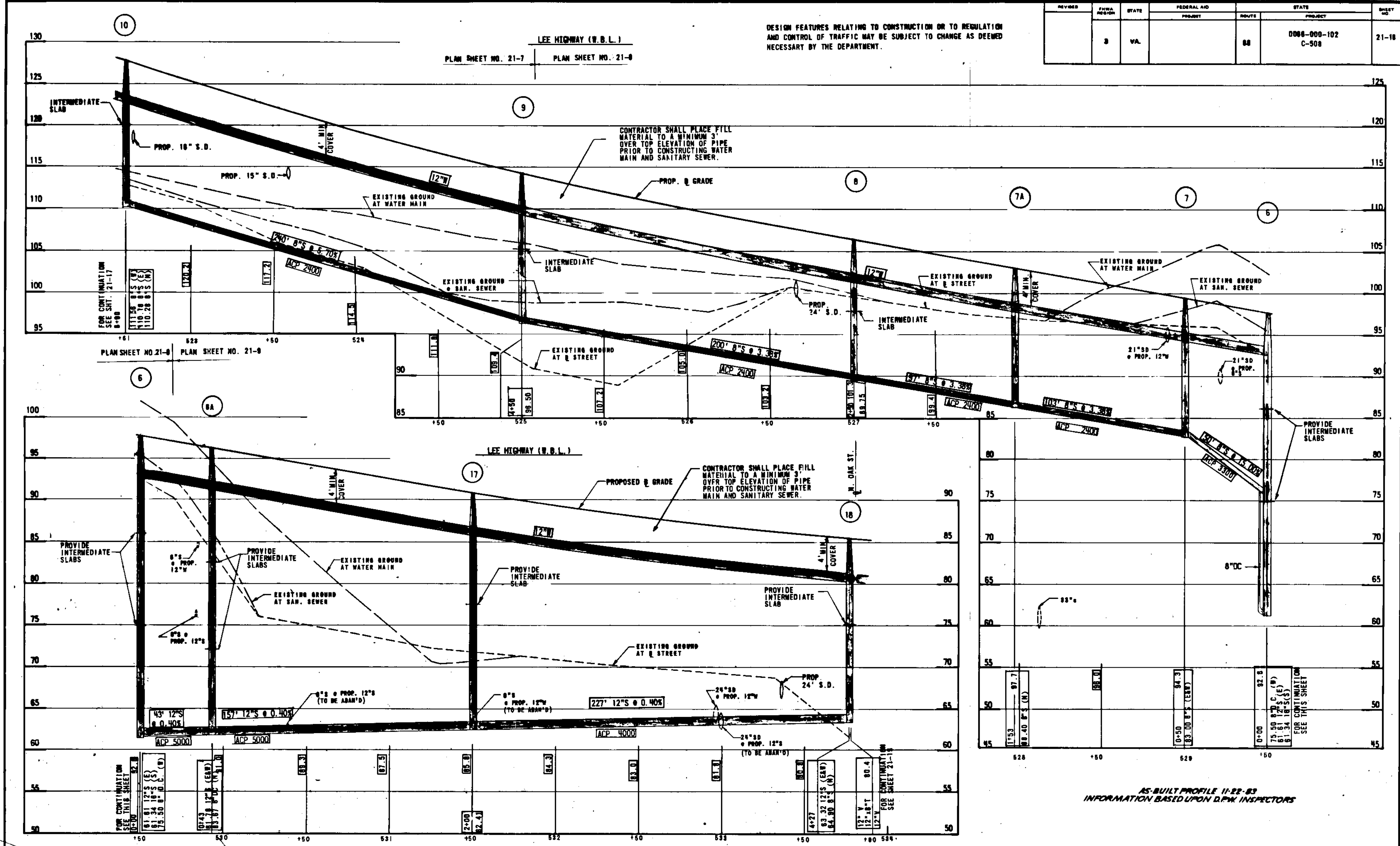
10+74 = 11+88 EQUALITY
140.85
REMOVE TEMP BRICK PLUG
AND WATCH TO
INVERT OF
EXIST. SANITARY
SEWER. CONSTRUCT
CHANNEL IN
MANHOLE. 143.35

11+58 8" S (EX)
110.18 8" S (EX)
110.28 8" S (EX)

11+58 8" S (EX)
110.18 8" S (EX)
110.28 8" S (EX)

| REVISED | FEDERAL AID | STATE | PROJECT | | SHEET NO. |
|---------|-------------|-------|-------------|-----------------------|-----------|
| | | | FEDERAL AID | STATE | |
| | | | 88 | 0088-000-102 C-508 | 21-18 |

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



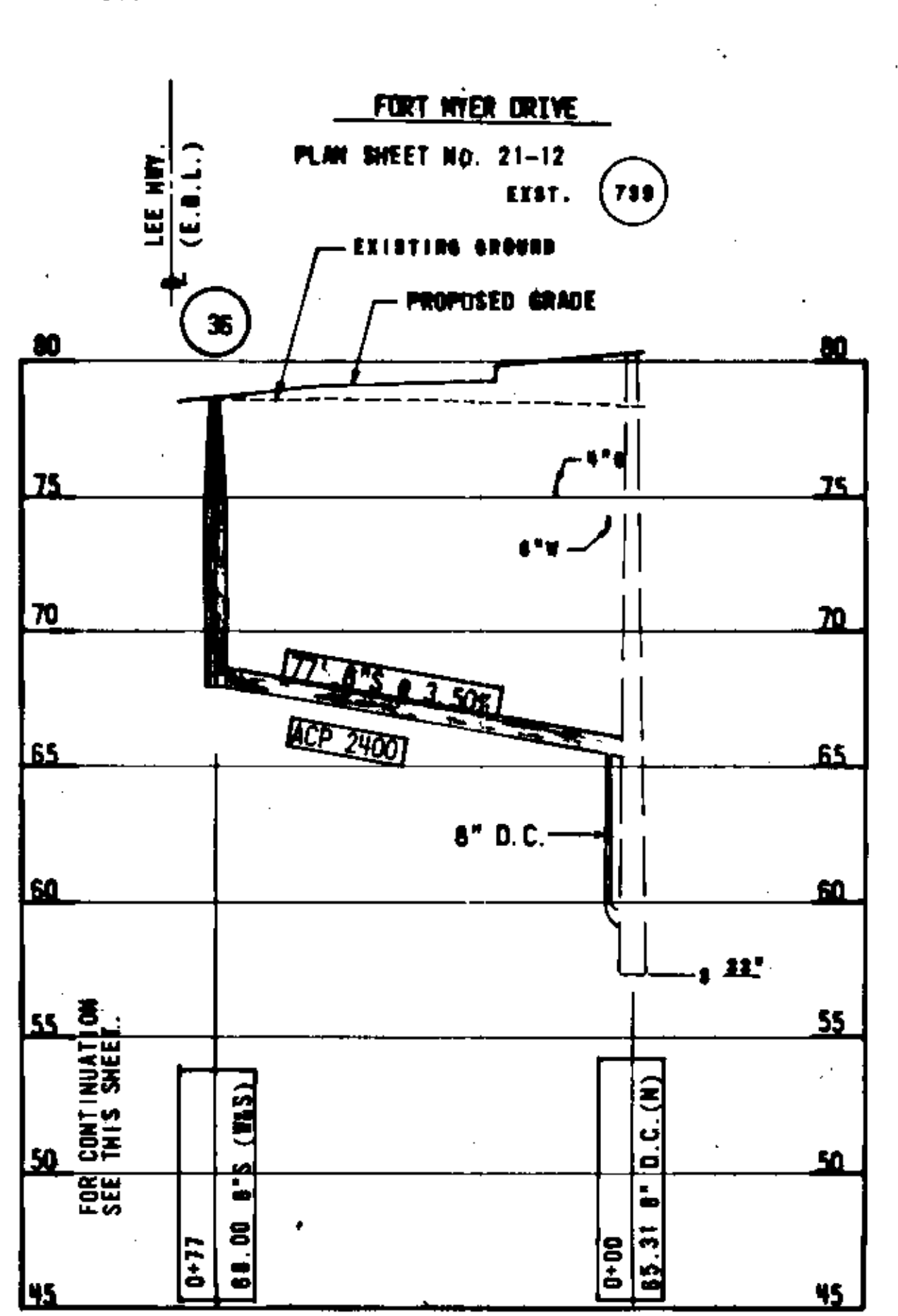
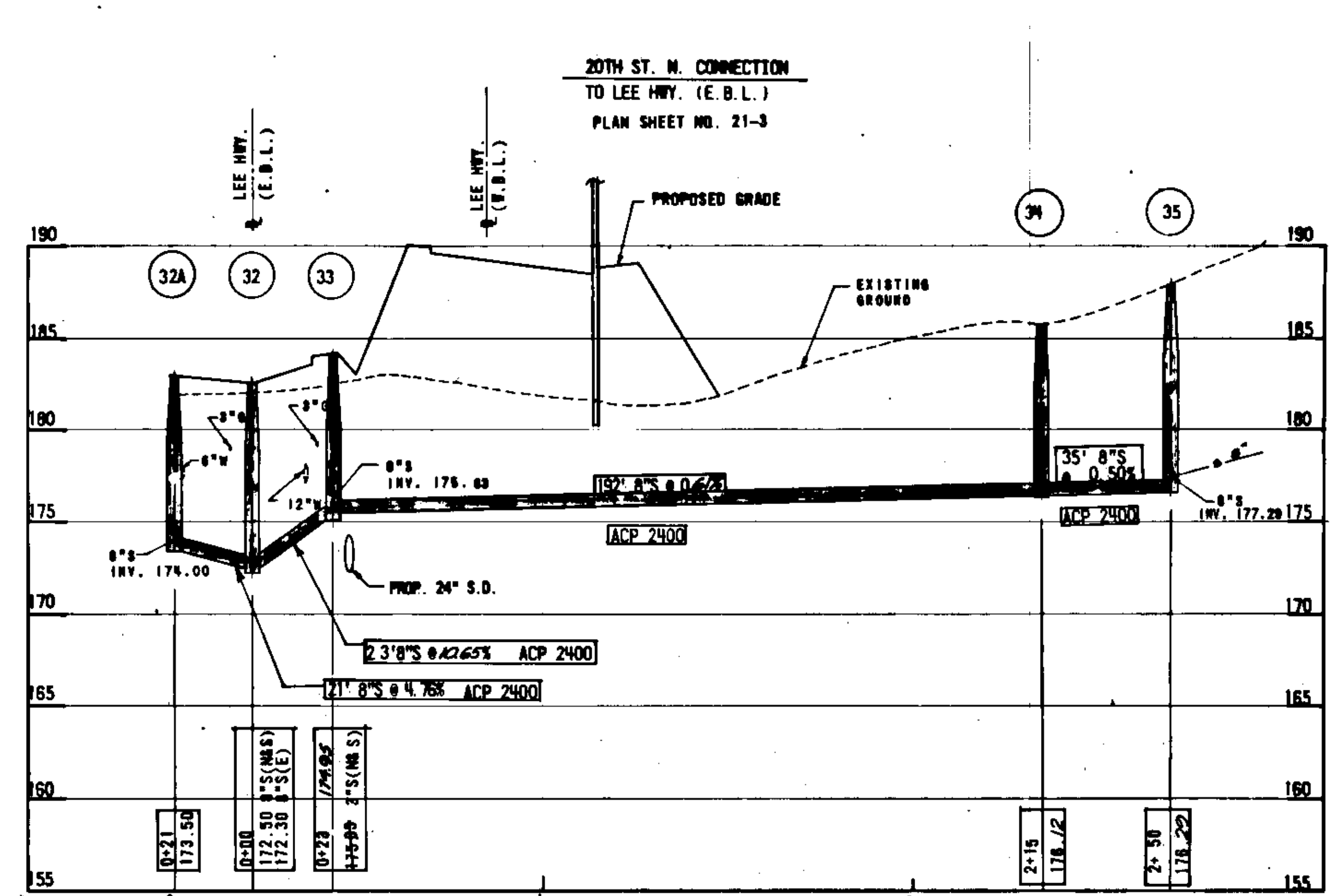
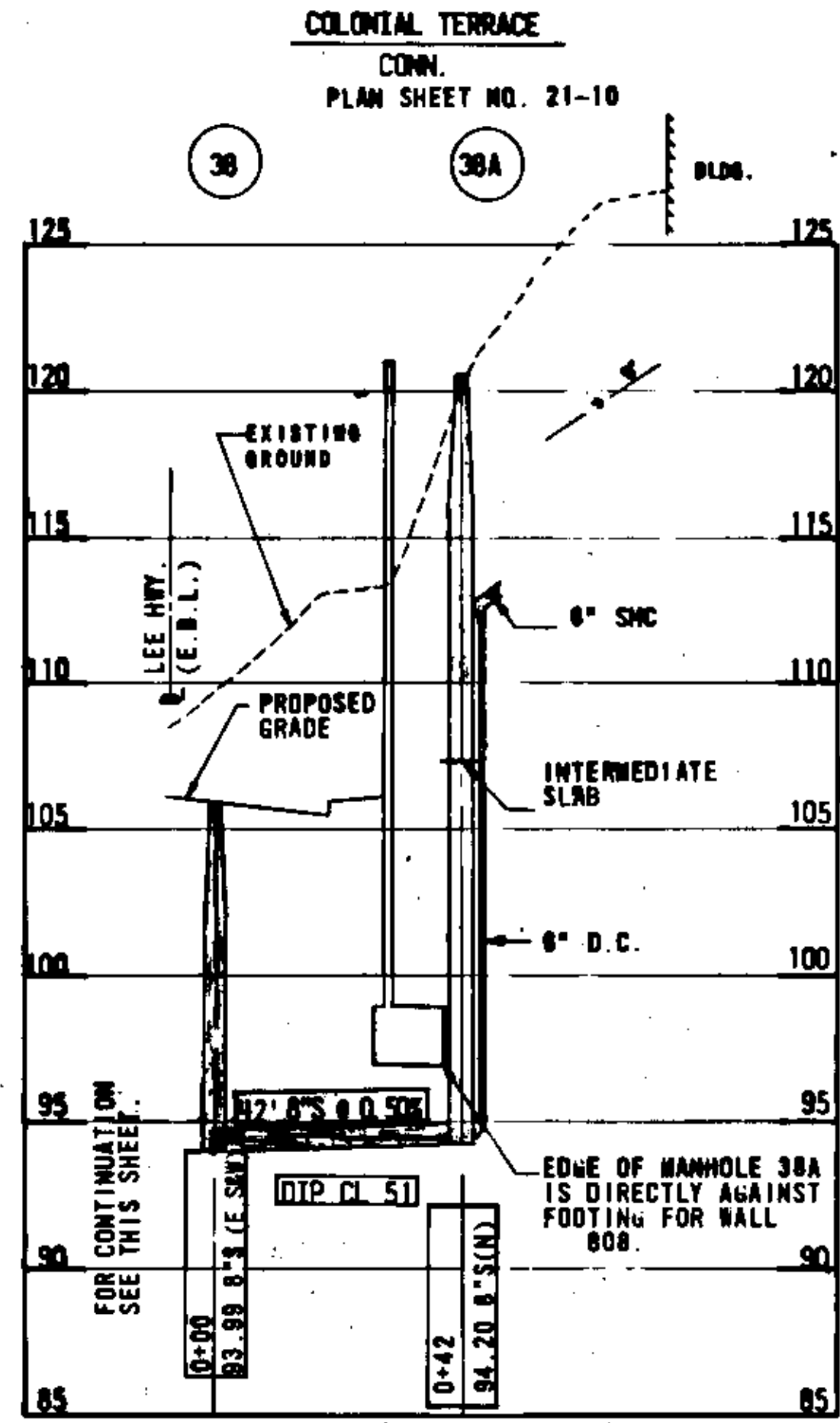
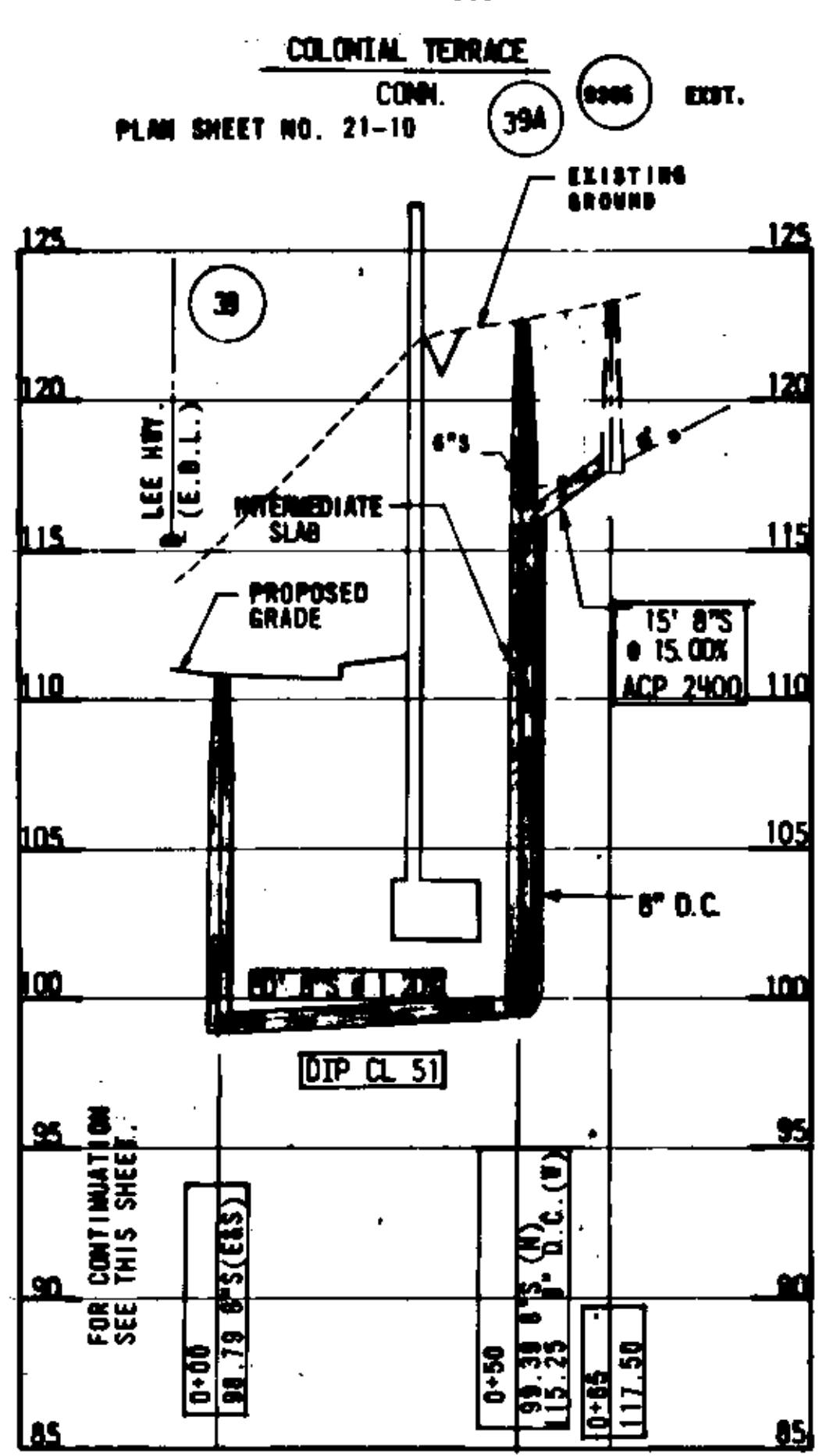
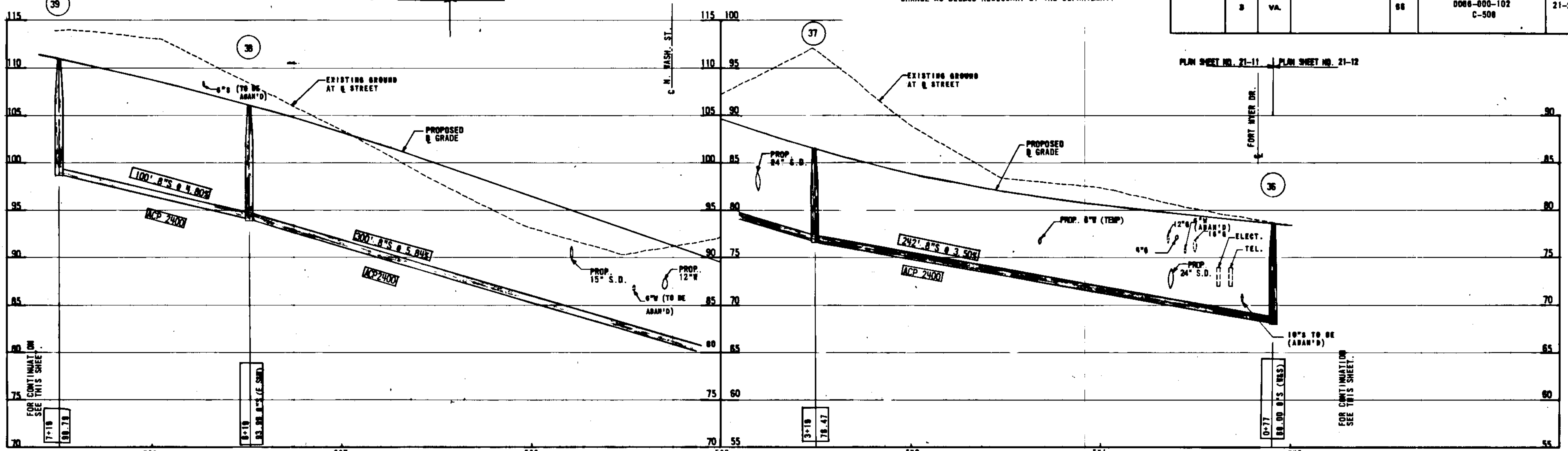
AS-BUILT PROFILE 11-22-83
INFORMATION BASED UPON D.P.W. INSPECTORS

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

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

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.

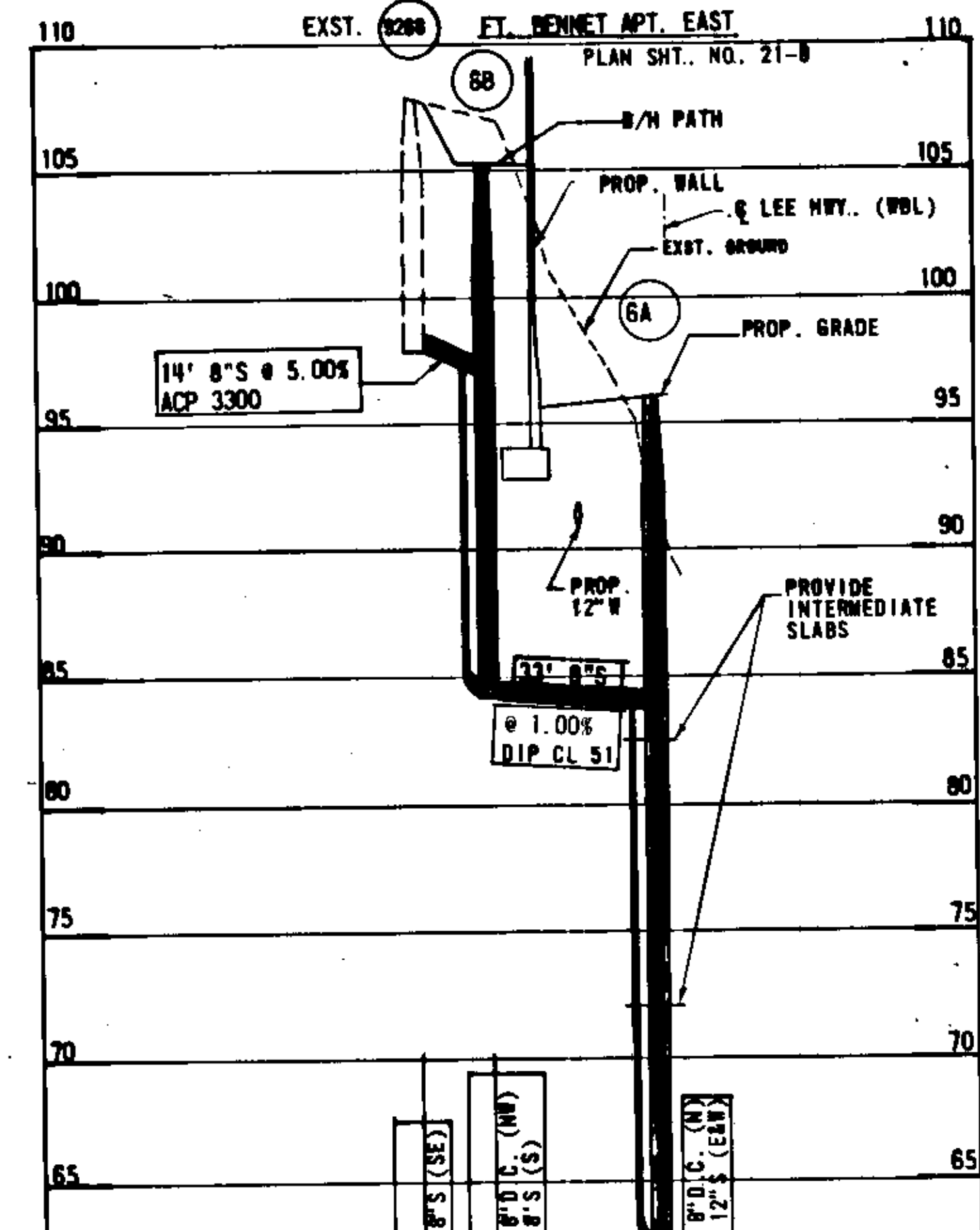
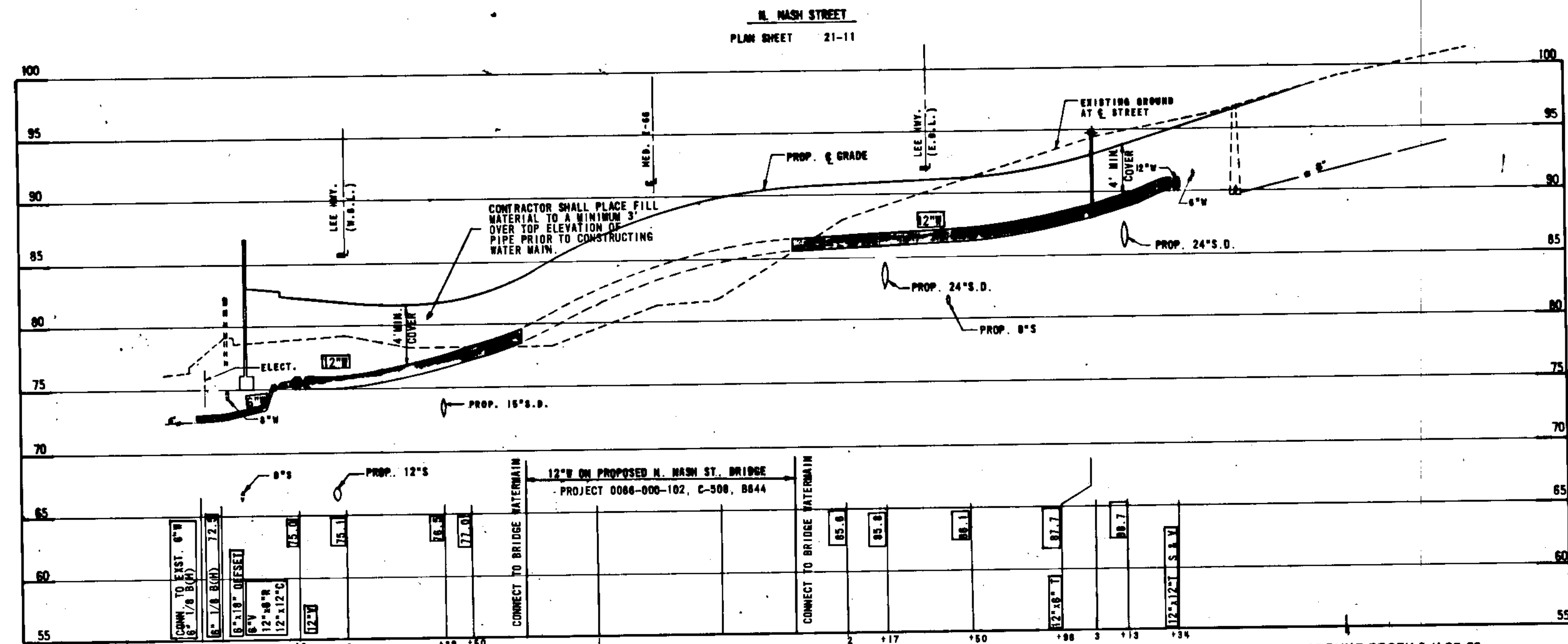
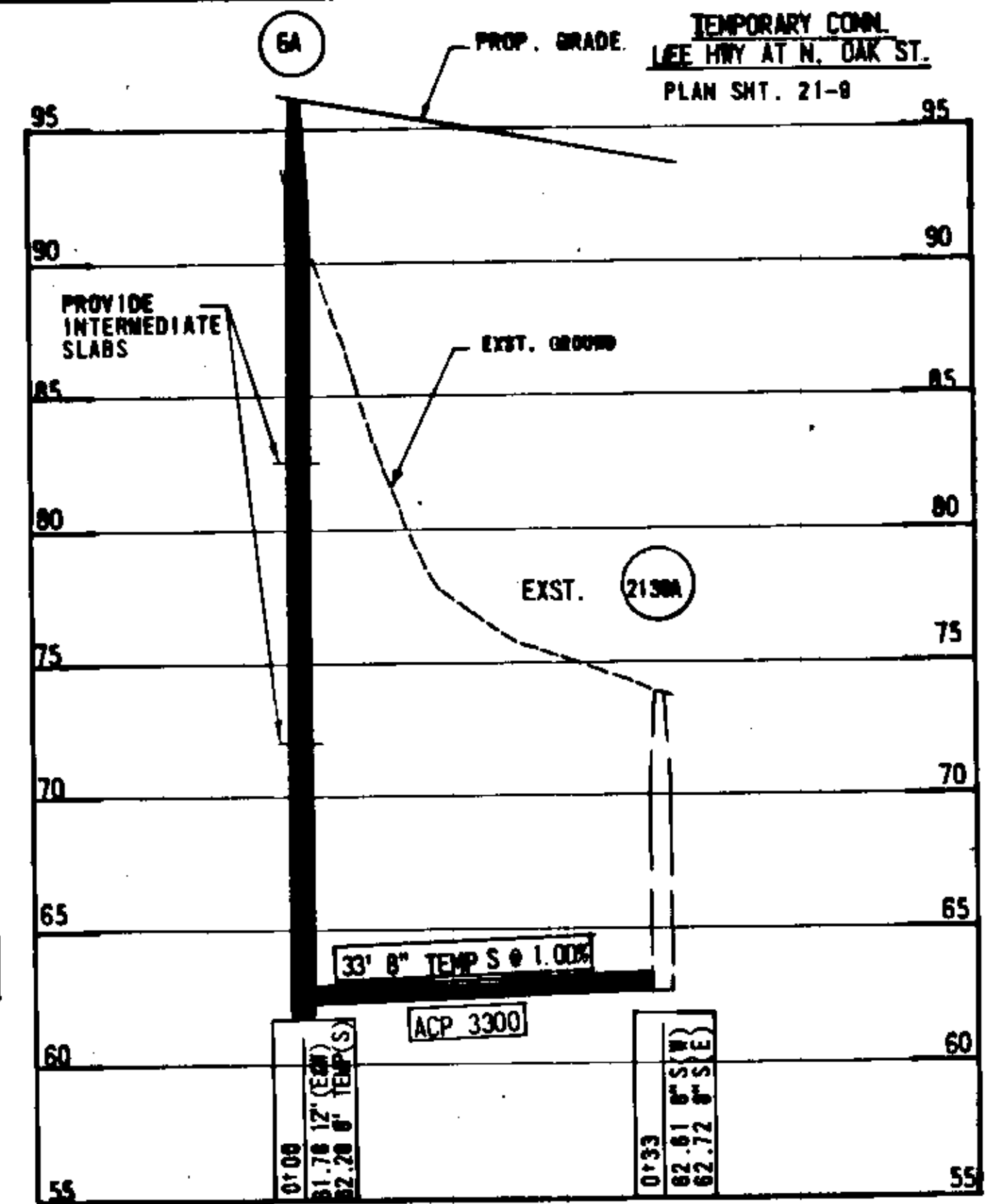
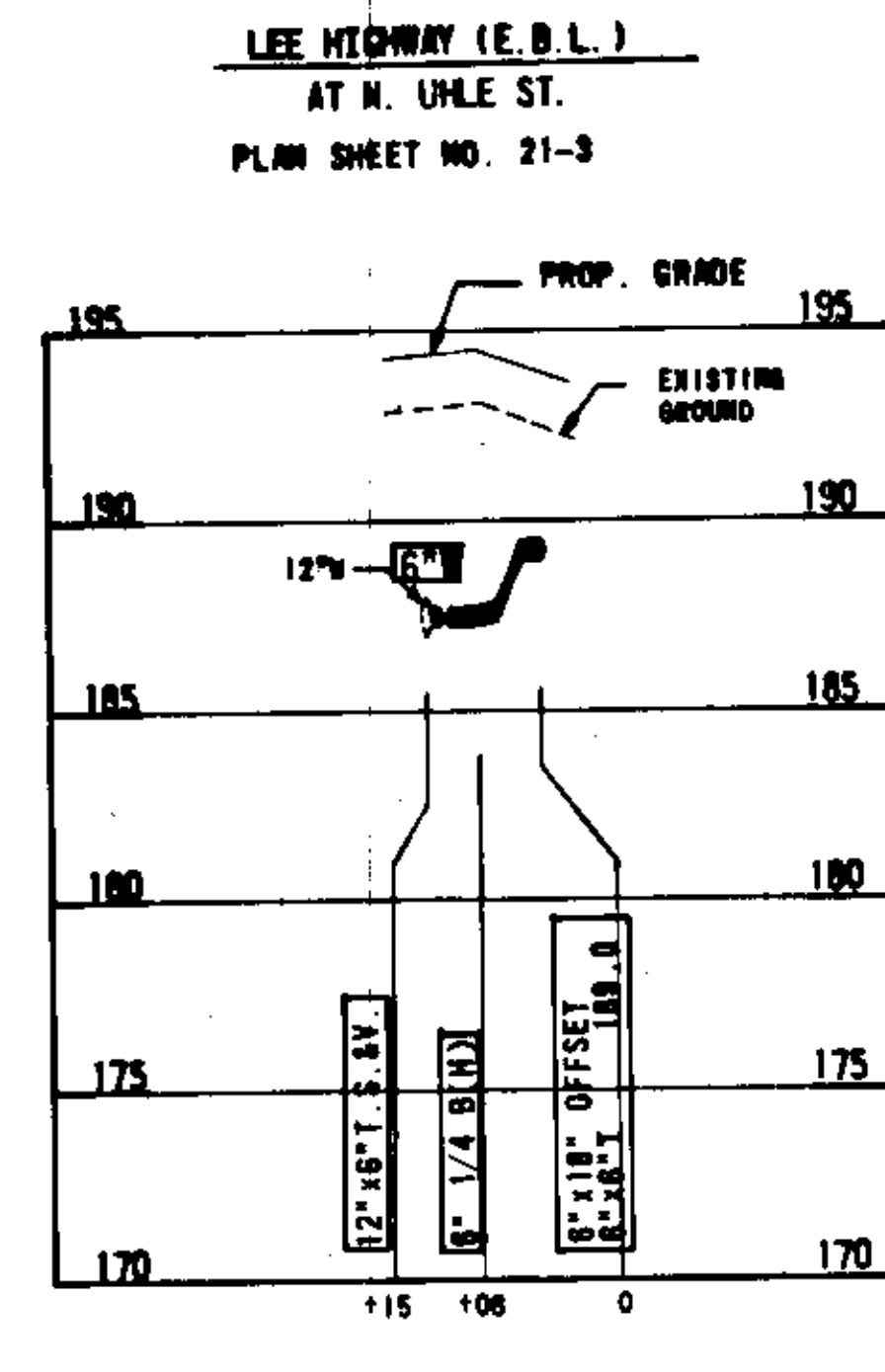
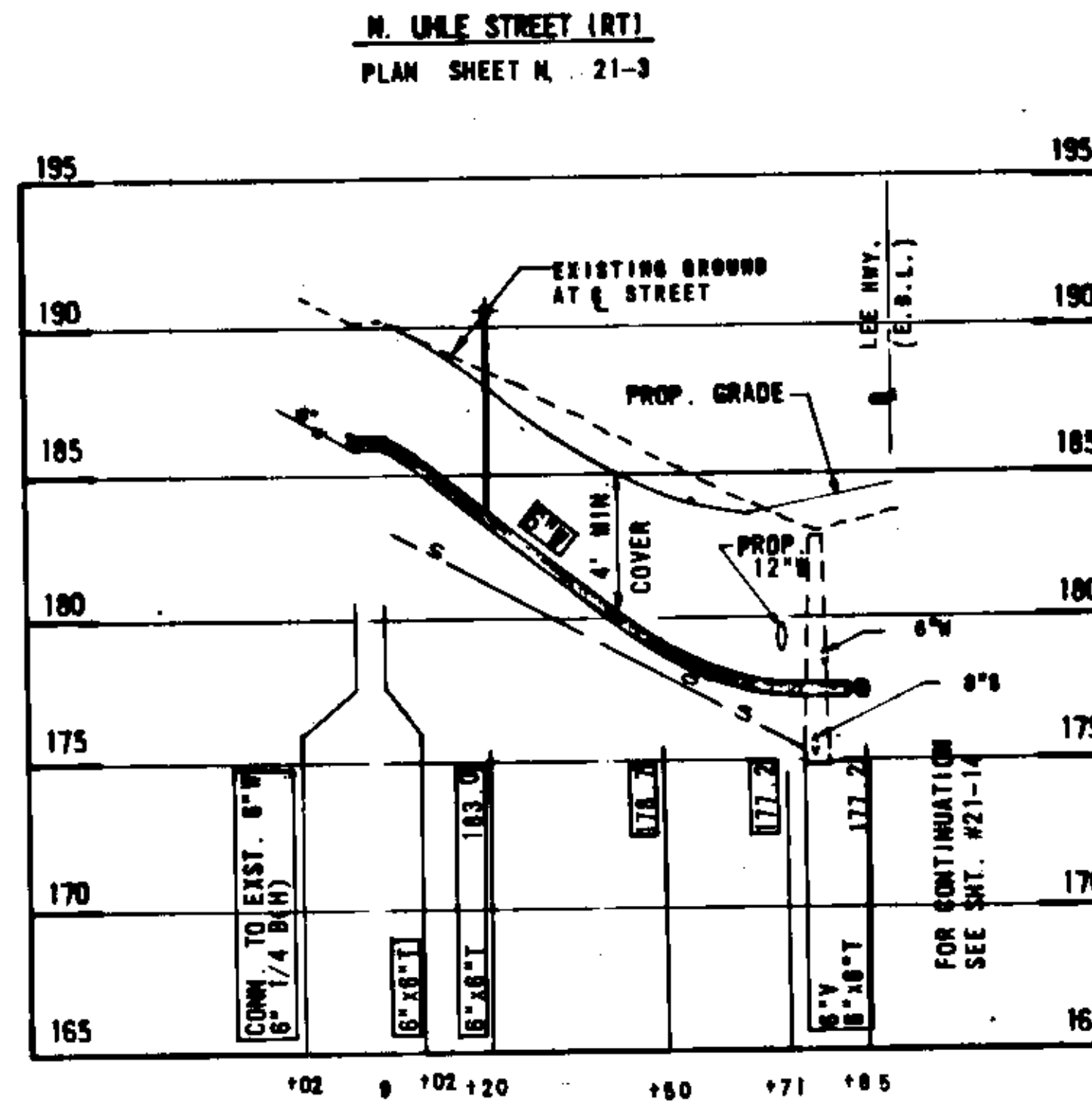
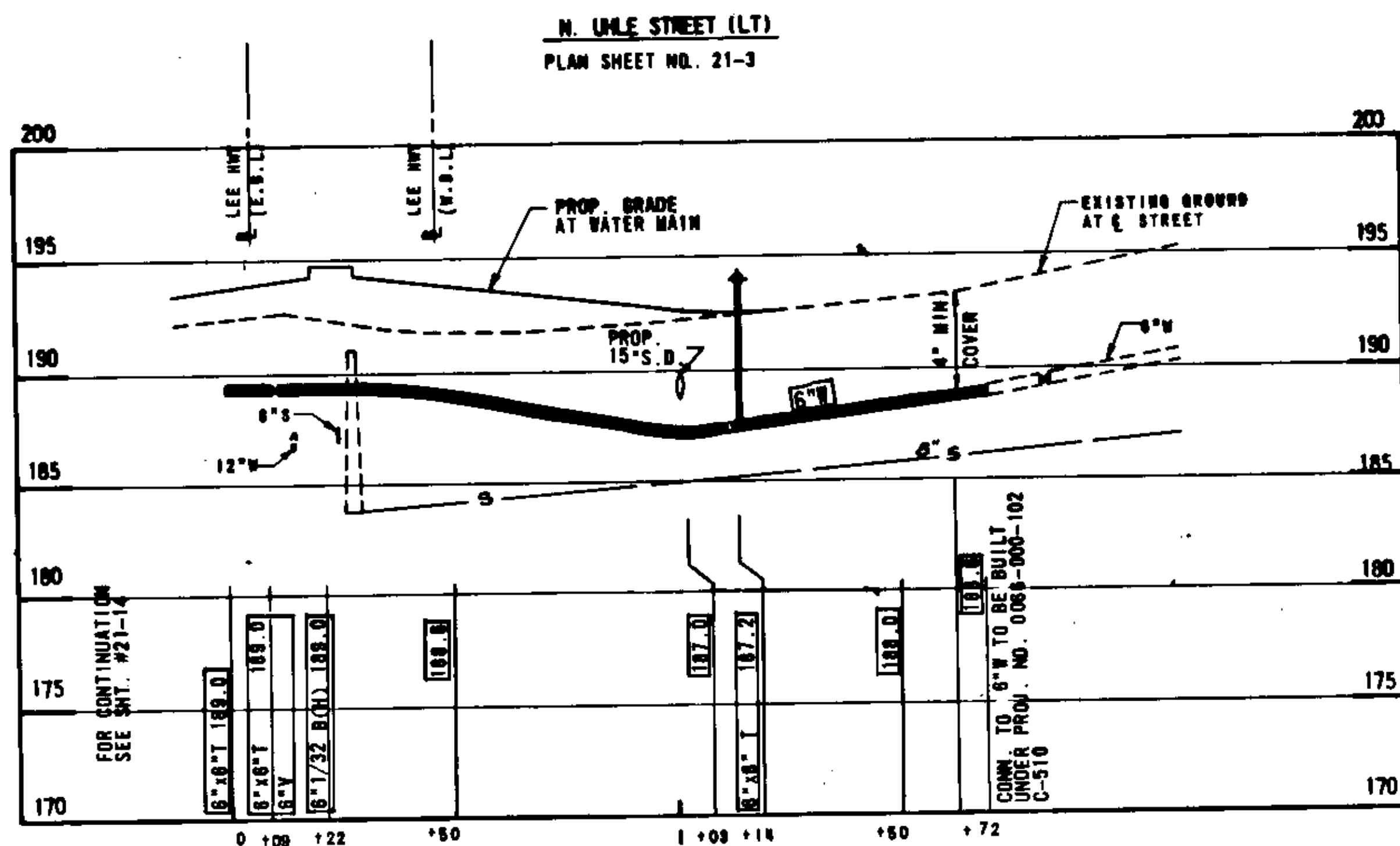


SCALE: HORZ: 1"=20'
VERT: 1"=5'

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 | STATE | PROJECT | | ROUTE | STATE PROJECT | SHEET NO. |
|---------|-------------|-------|-------------|-------|-------|-----------------------|-----------|
| | | | FEDERAL AID | STATE | | | |
| | | | | | 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

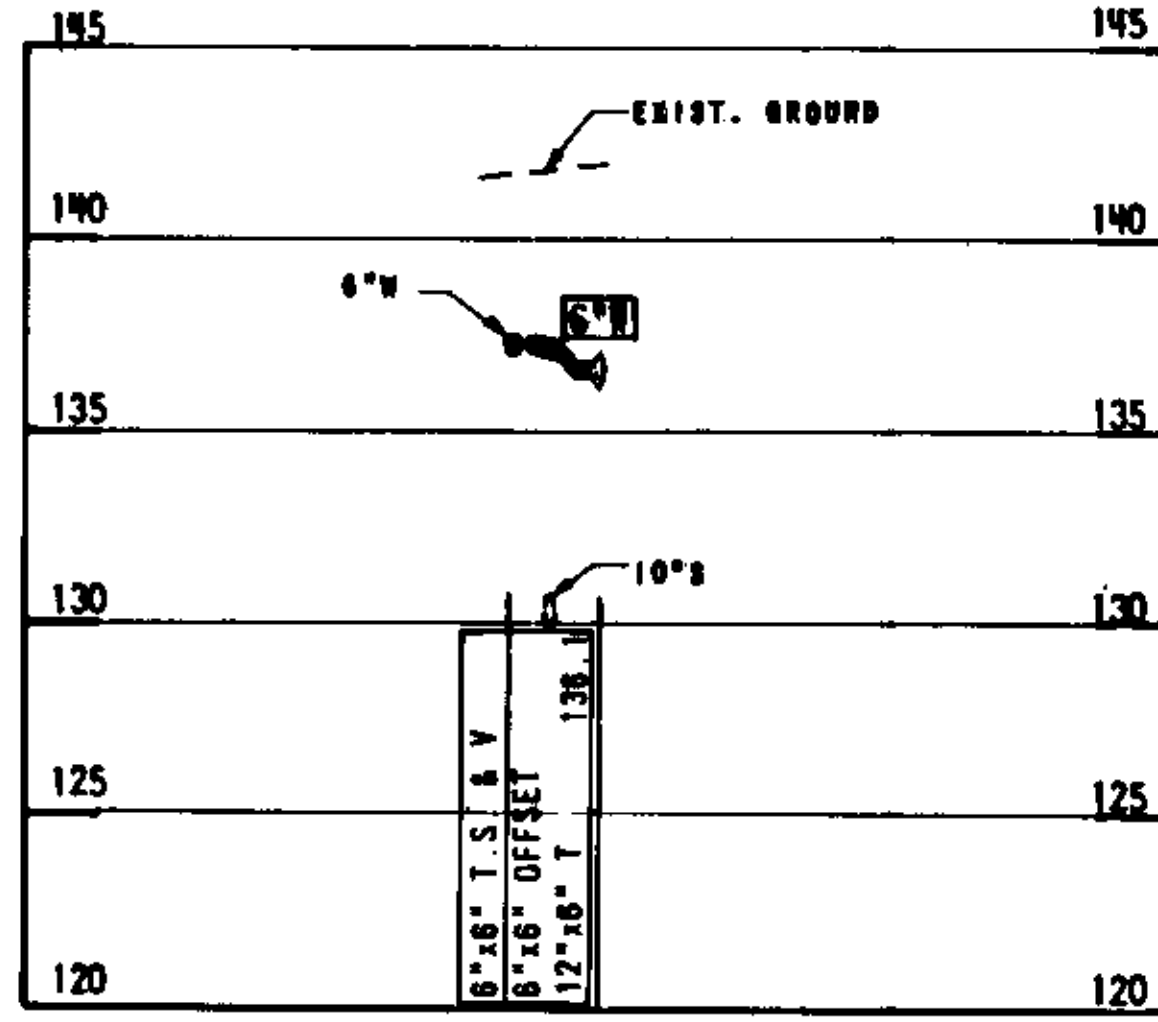
| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
|----------|---------|----------|-----------|
| 0147 | 0123 | 0133 | 21-23 |

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 PROJECT | SHEET NO. |
|---------|-------------|-------|-------------|-------|-----------------------|-----------|
| | | | PROJECT | ROUTE | | |
| | 3 | VA. | | 68 | 0068-000-102 C-508 | 21-24 |

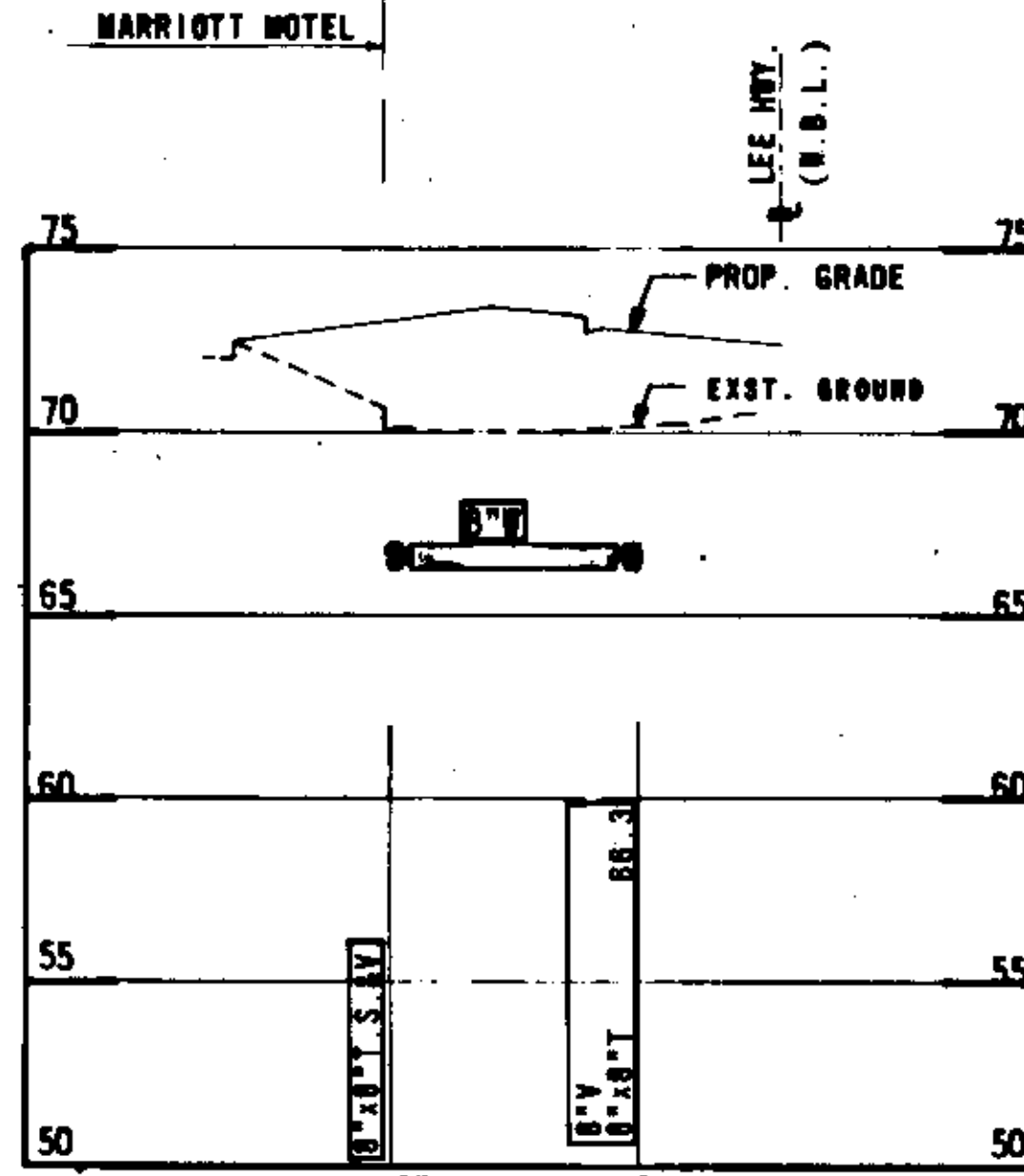
AS-BUILT PROFILE 11-25-03
INFORMATION BASED UPON D.P.W. INSPECTORS NOTES

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

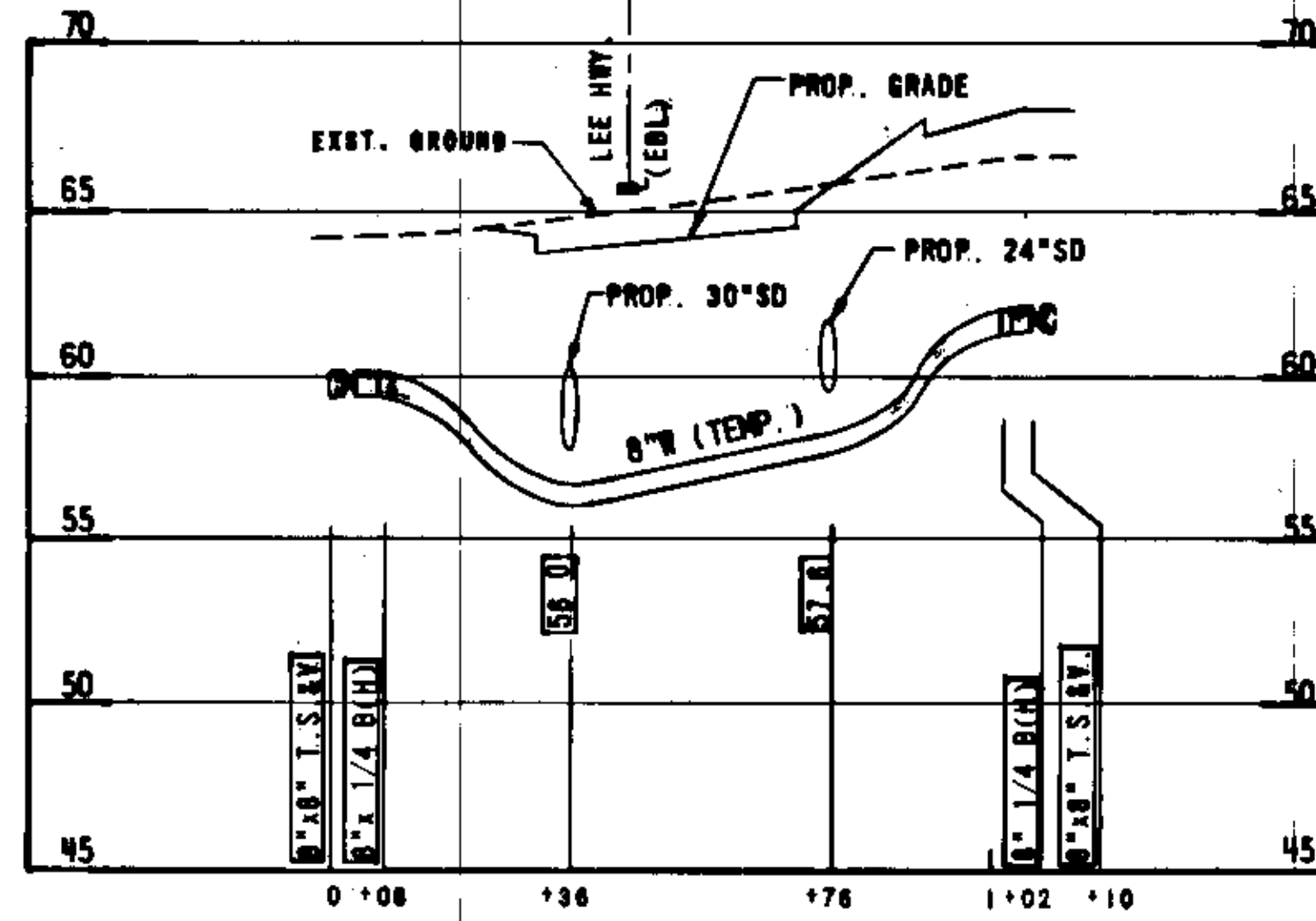


MARRIOTT HOTEL CONN.

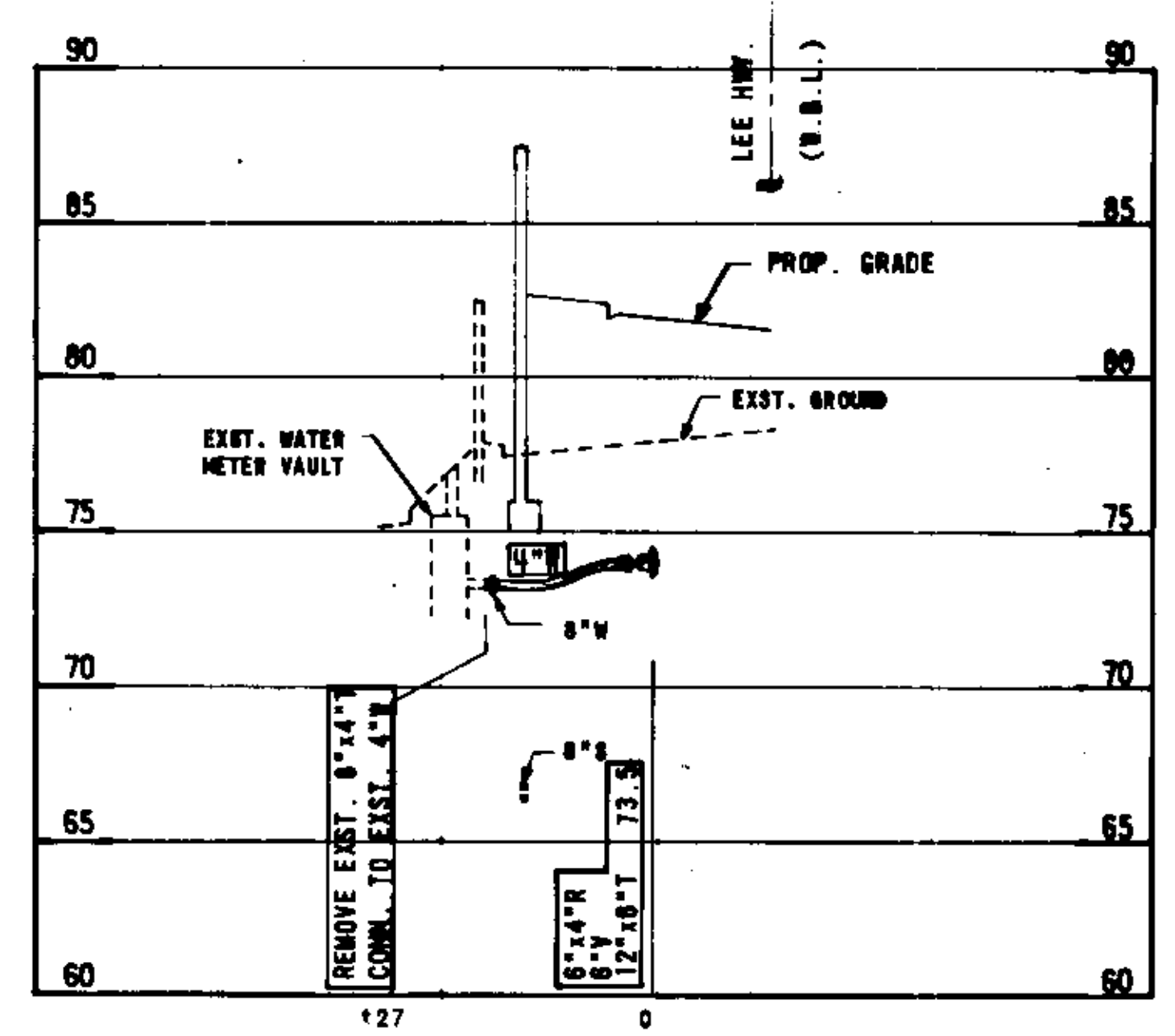
PLAN SHEET NO. 21-11



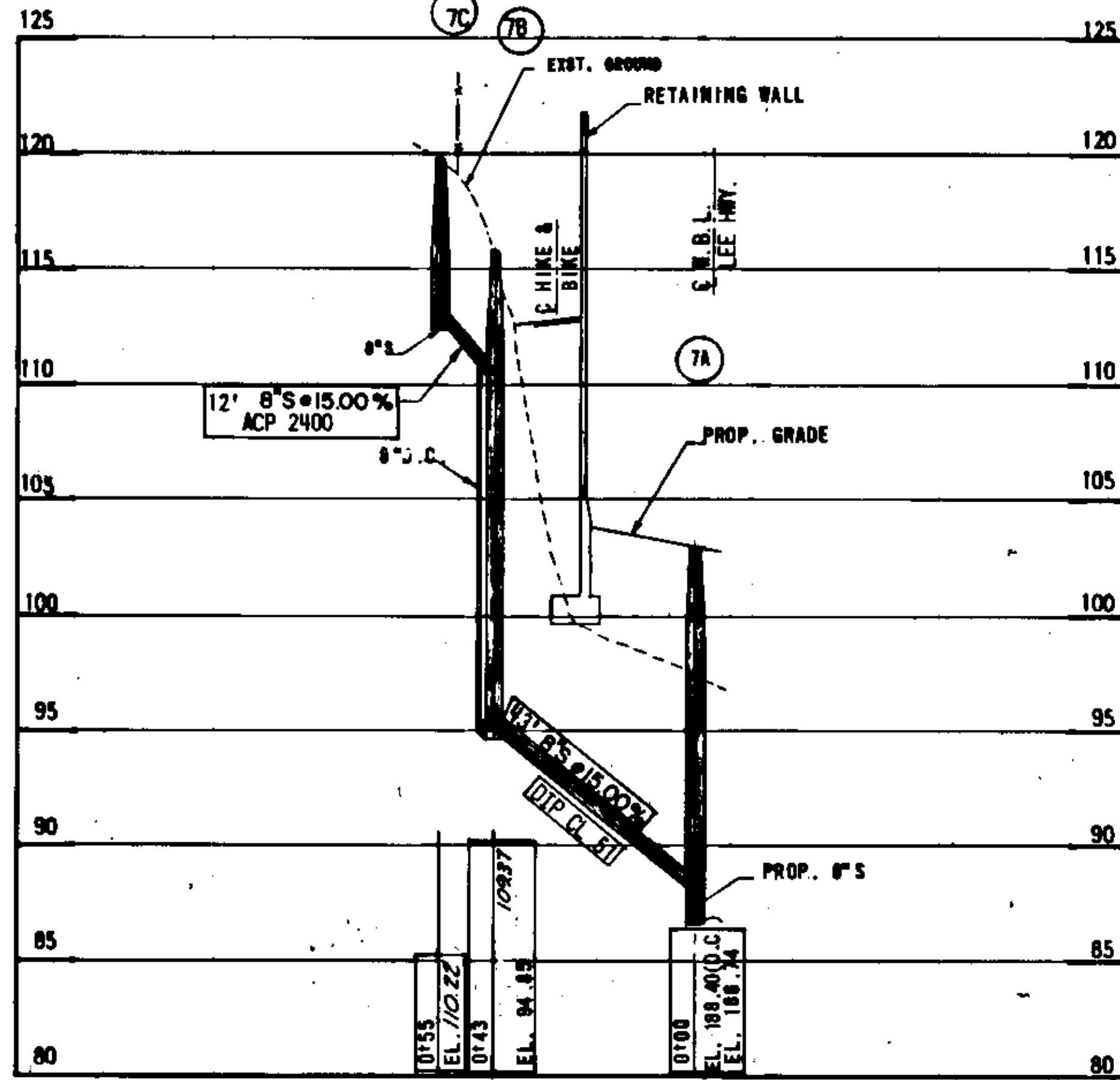
N. MOORE ST.
PLAN SHEET NO. 21-12



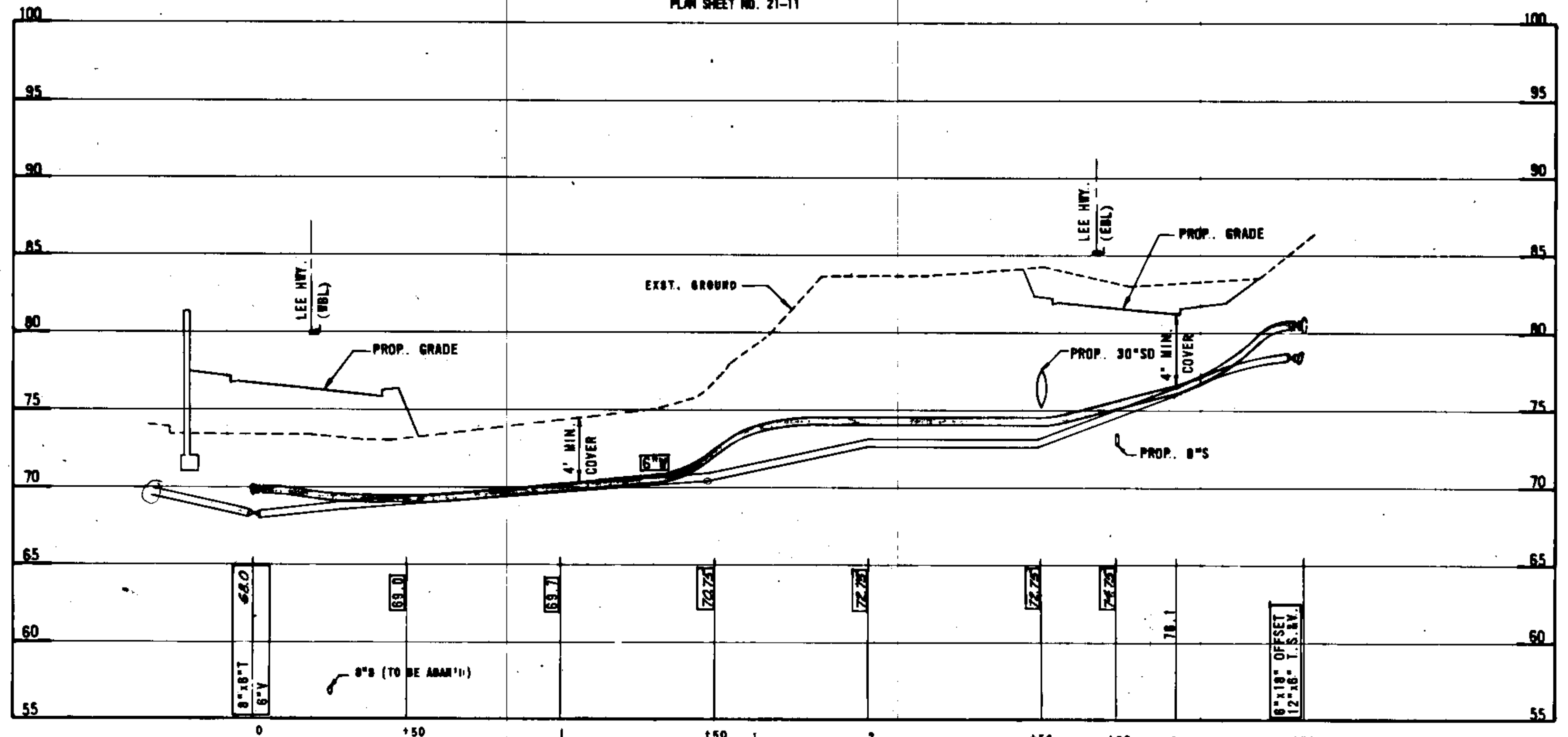
MARRIOTT HOTEL CONN.
PLAN SHEET NO. 21-11



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'

REINFORCING STEEL SCHEDULE

DIMENSION TABLE

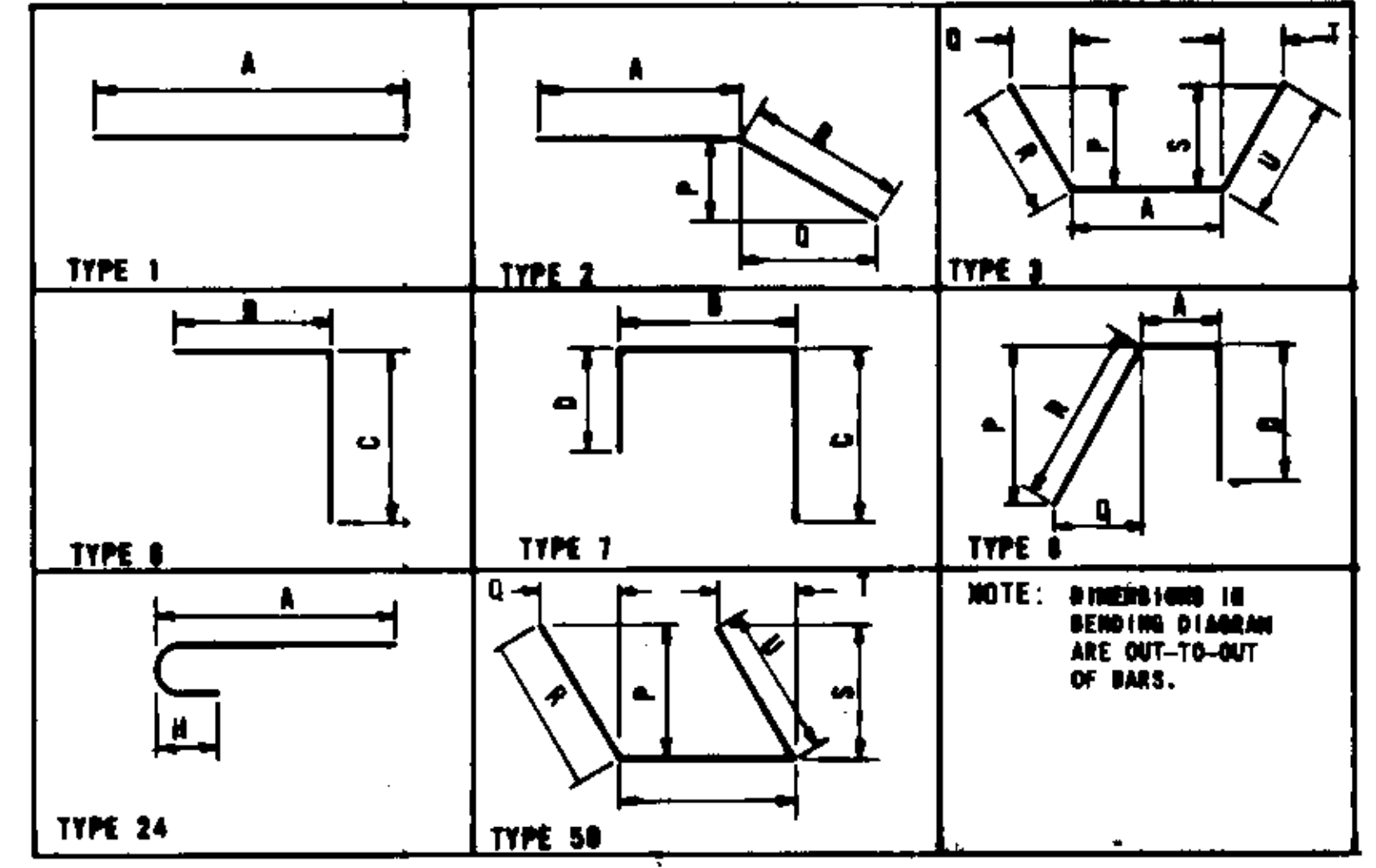
| F.H.M.A. REGION | STATE | FEDERAL AID | | STATE | | SHEET NO. | TOTAL SHEETS |
|-----------------|-------|-------------|---------|-------|---------------------|-----------|--------------|
| | | ROUTE | PROJECT | ROUTE | PROJECT | | |
| 3 | VA. | | | 66 | 0066-000-102, C-508 | 21-28 | |

| MARK | NO. | SIZE | PIN DIA. | LENGTH | | WEIGHT | 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 | 14-18 | 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 | 529 | 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 | 308 | 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 | 148 | 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.

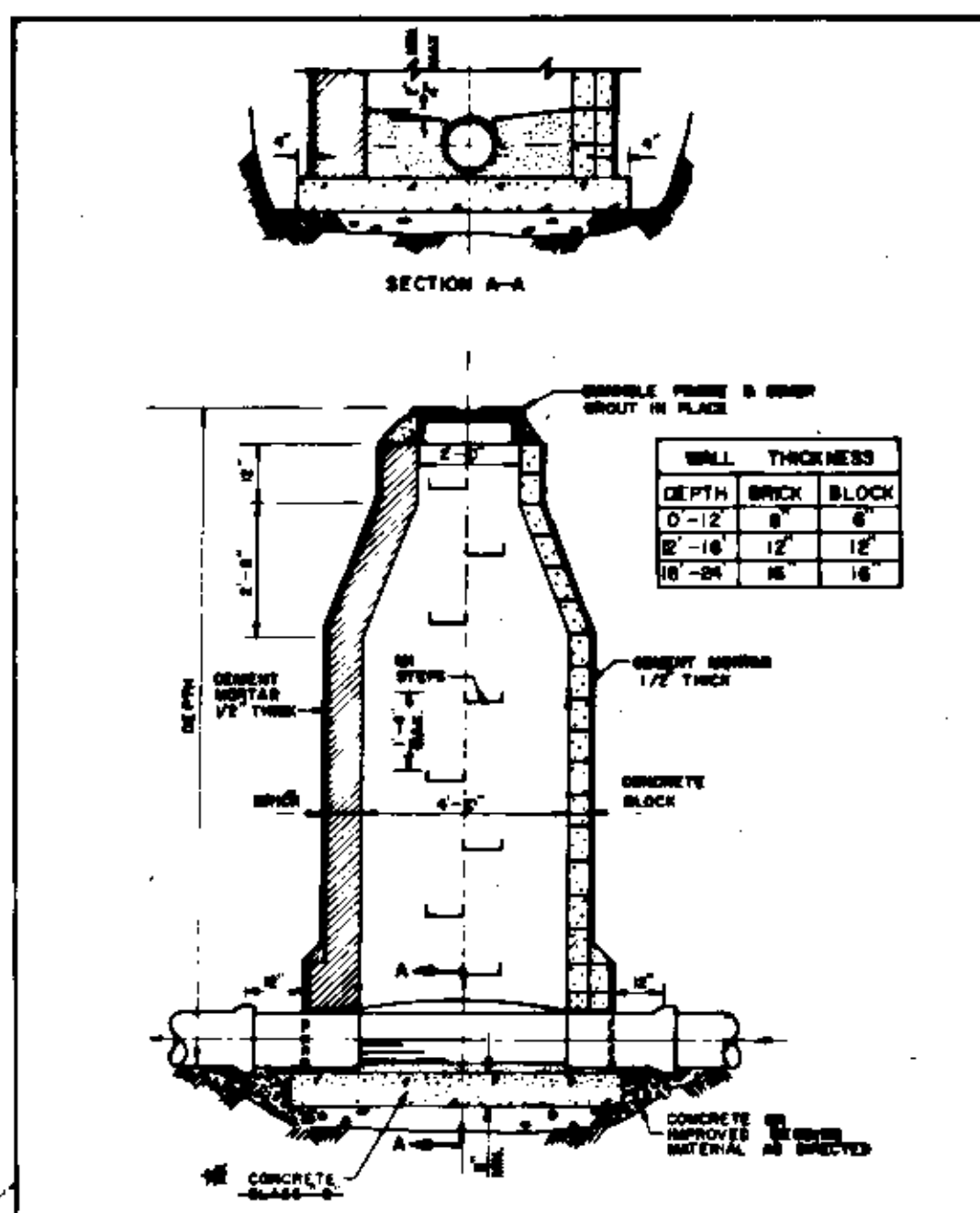
ESTIMATED QUANTITIES - SPECIAL DESIGN HMMHOLE NO. 5
 57.5 C.Y. CLASS AS CONCRETE
 8800 LBS. REINFORCING STEEL
 22.5 L.F. 5'-0" I.D. CONCRETE RISER PIPE.
 DEFORMED REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

DRAWN BY:
 TRACED BY:
 CHECKED BY:

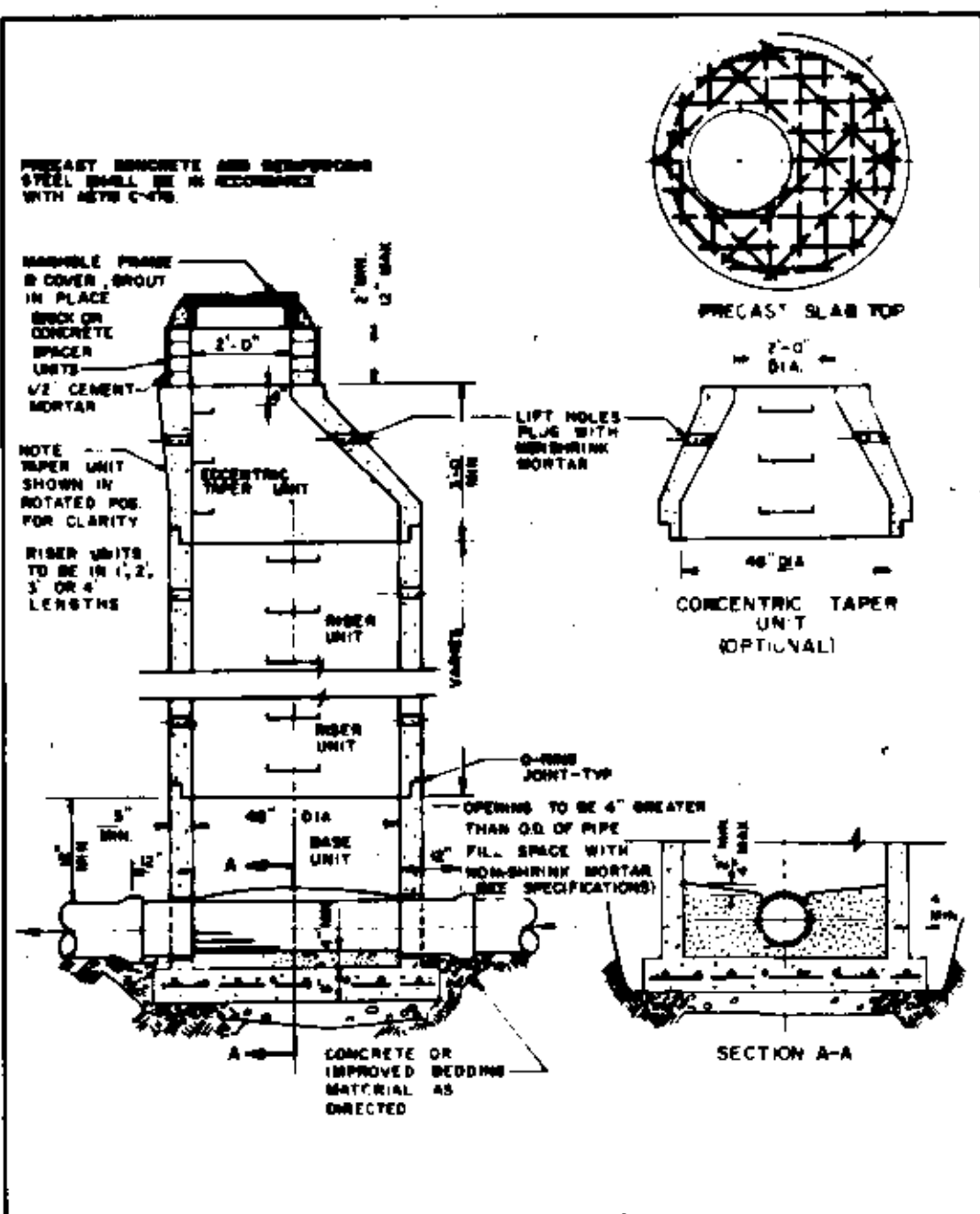
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

| 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 |

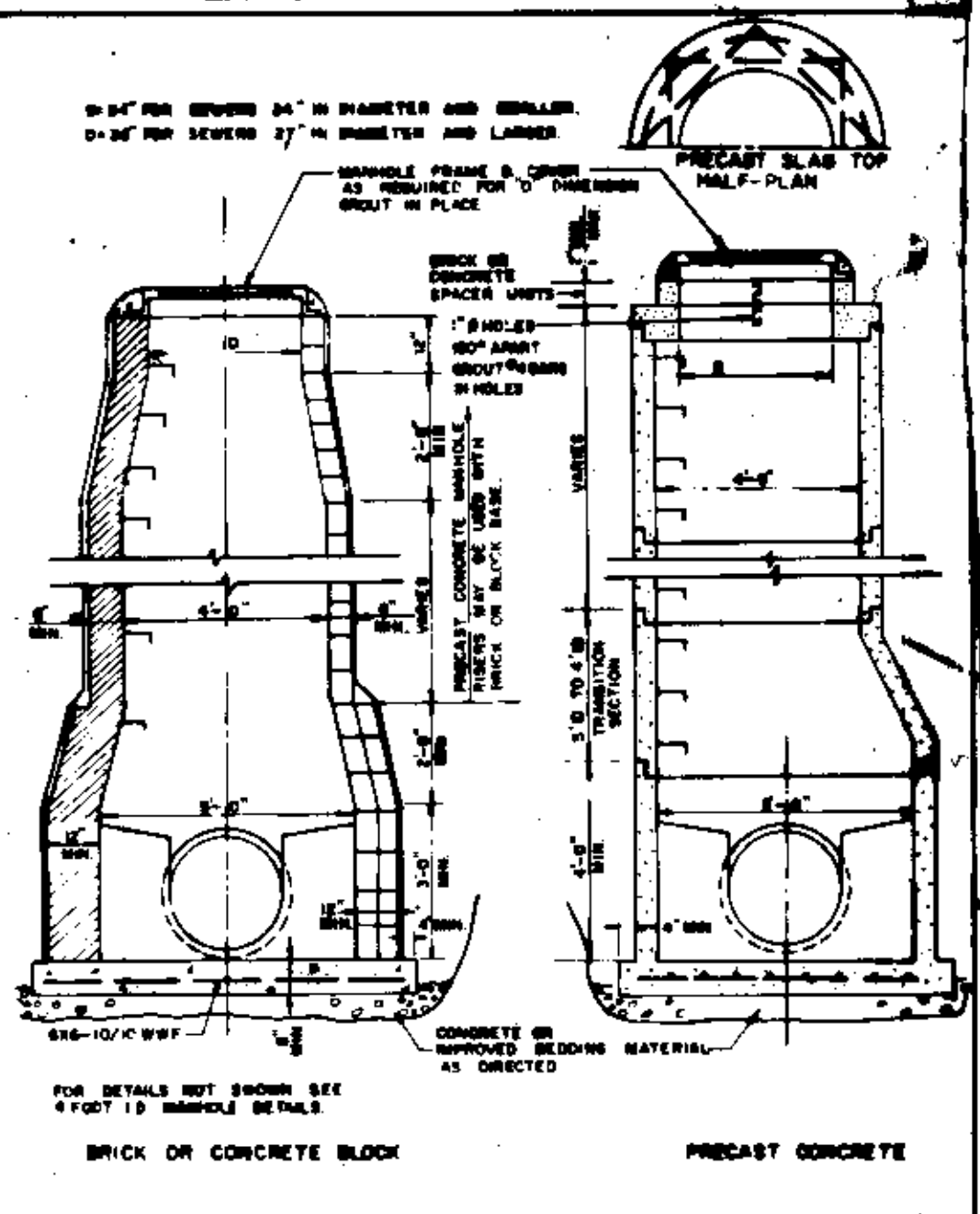
ALL CONCRETE SHALL BE CLASS A-3



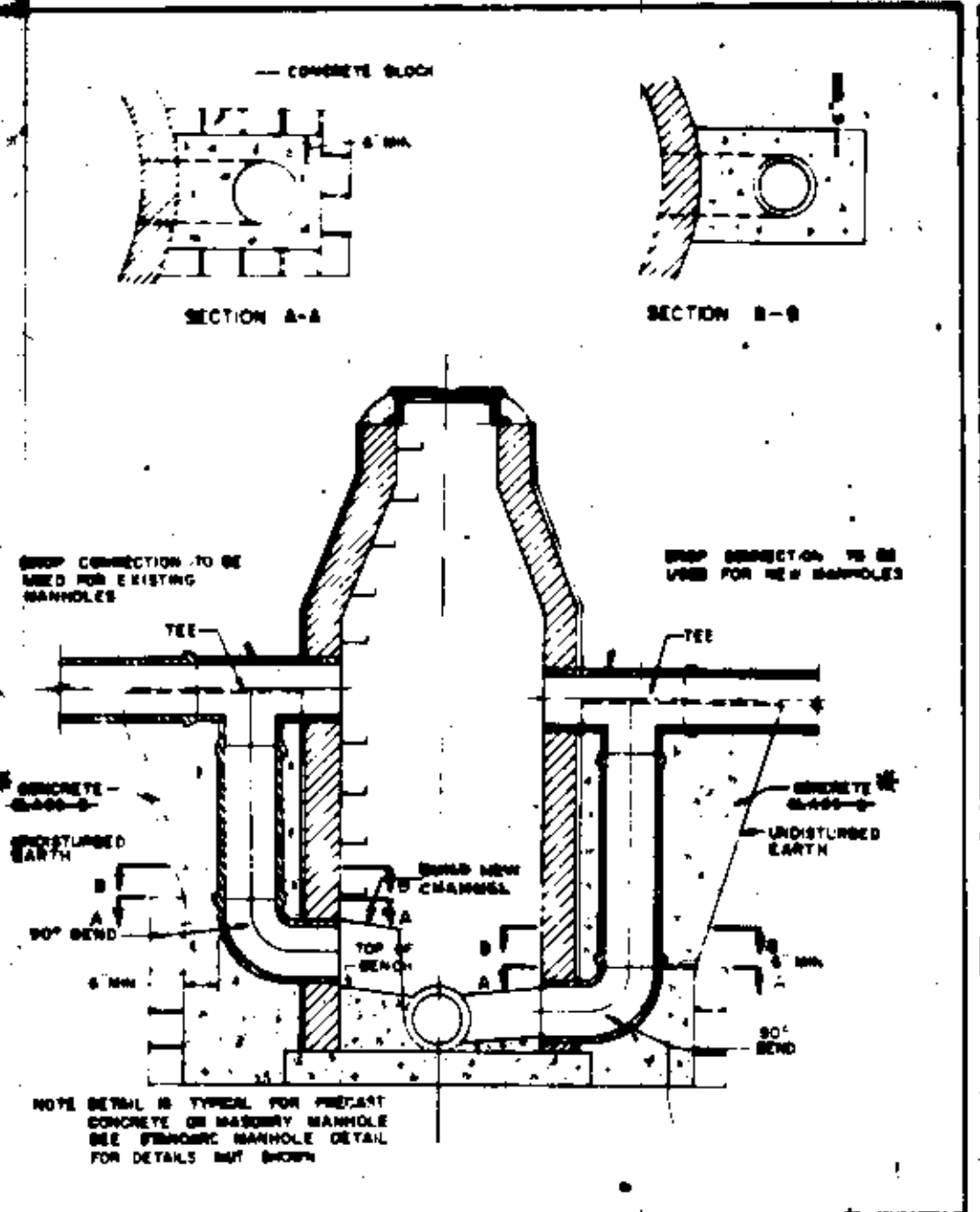
APPROVED *[Signature]*
 4-FOOT L.D. MANHOLE
 BRICK OR CONCRETE
 BLOCK CONSTRUCTION
 DRAWING NUMBER S-1



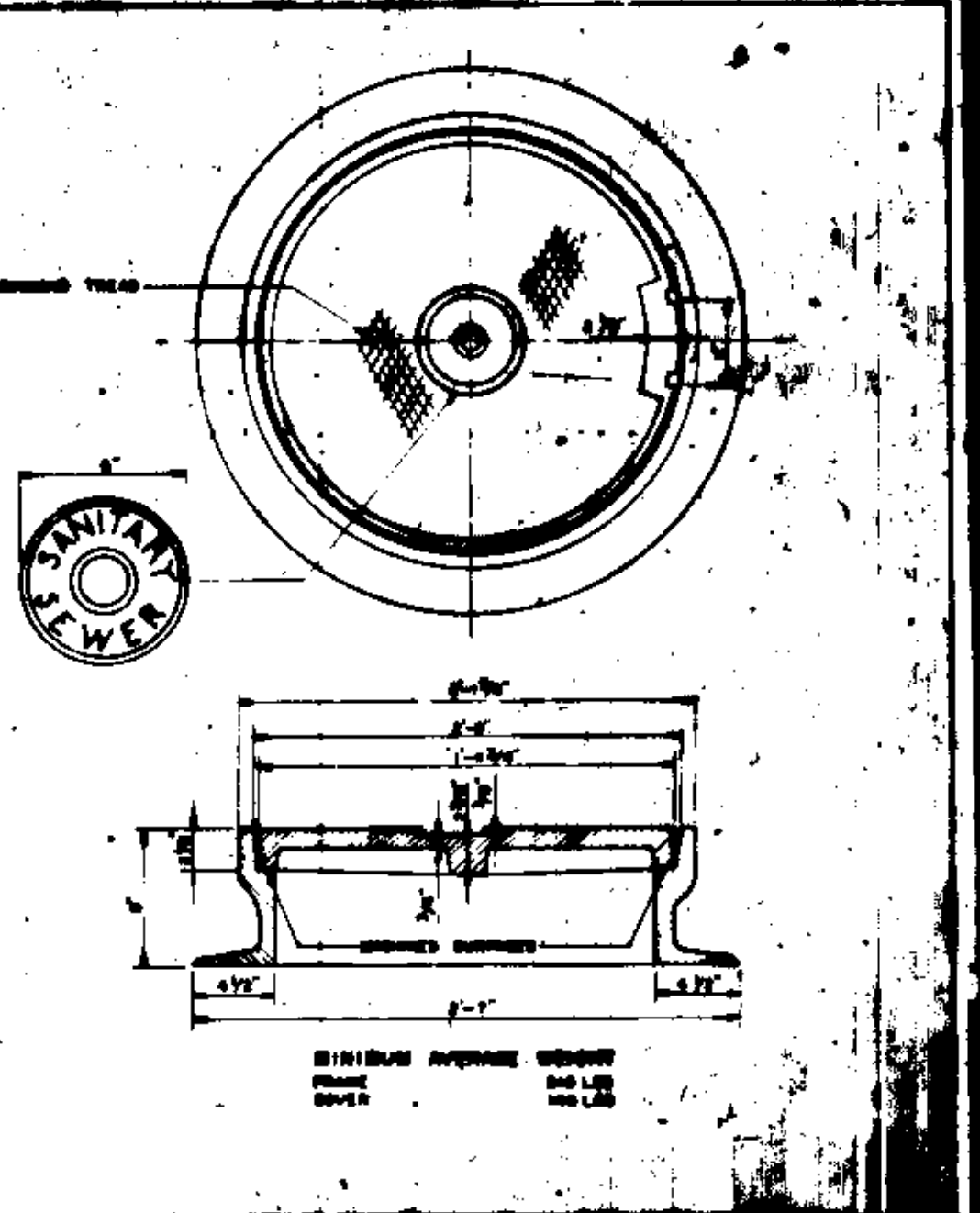
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 4-FOOT L.D. MANHOLE
 PRECAST CONCRETE
 DRAWING NUMBER S-2



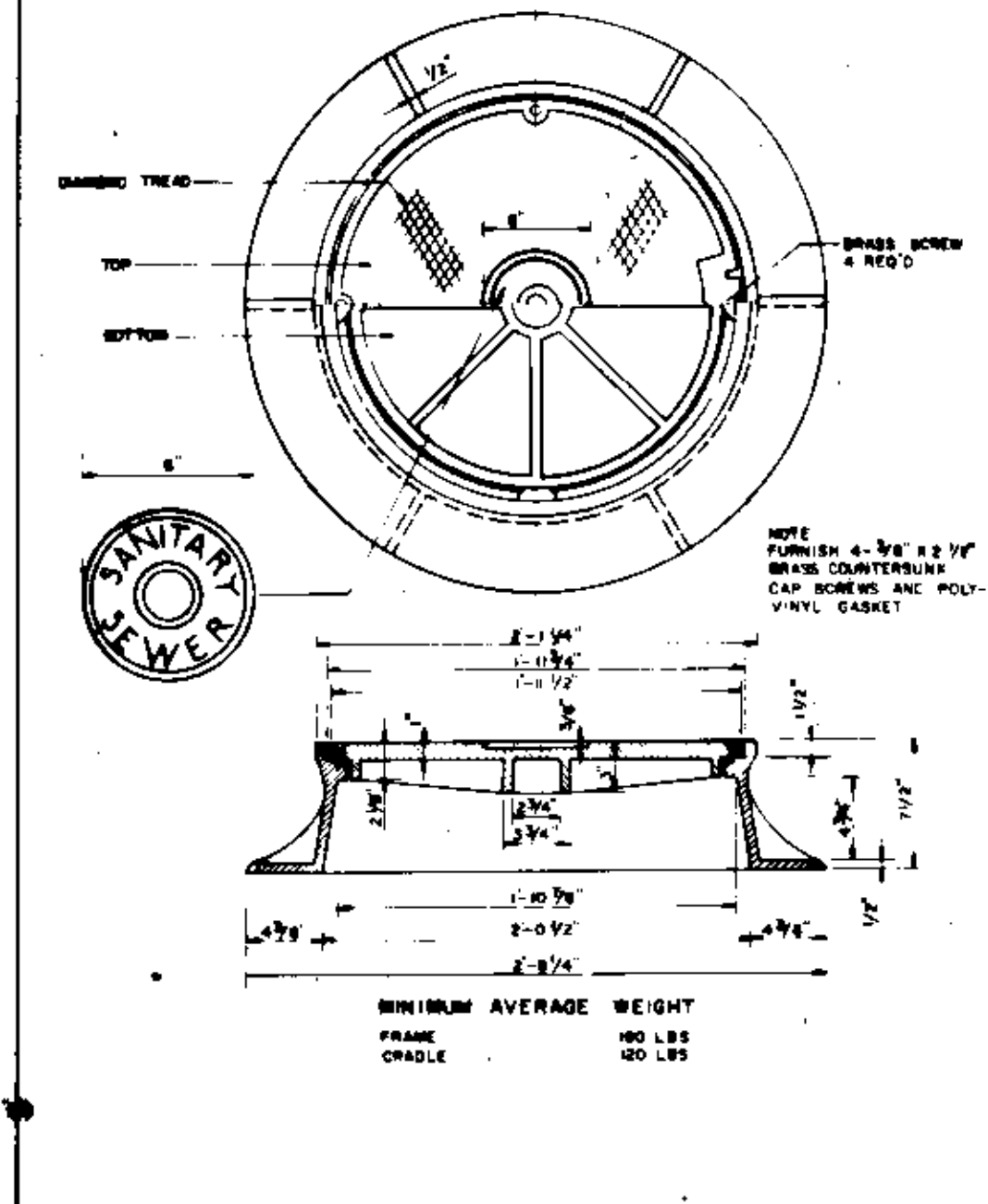
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 5-FOOT L.D. MANHOLE
 DRAWING NUMBER S-3



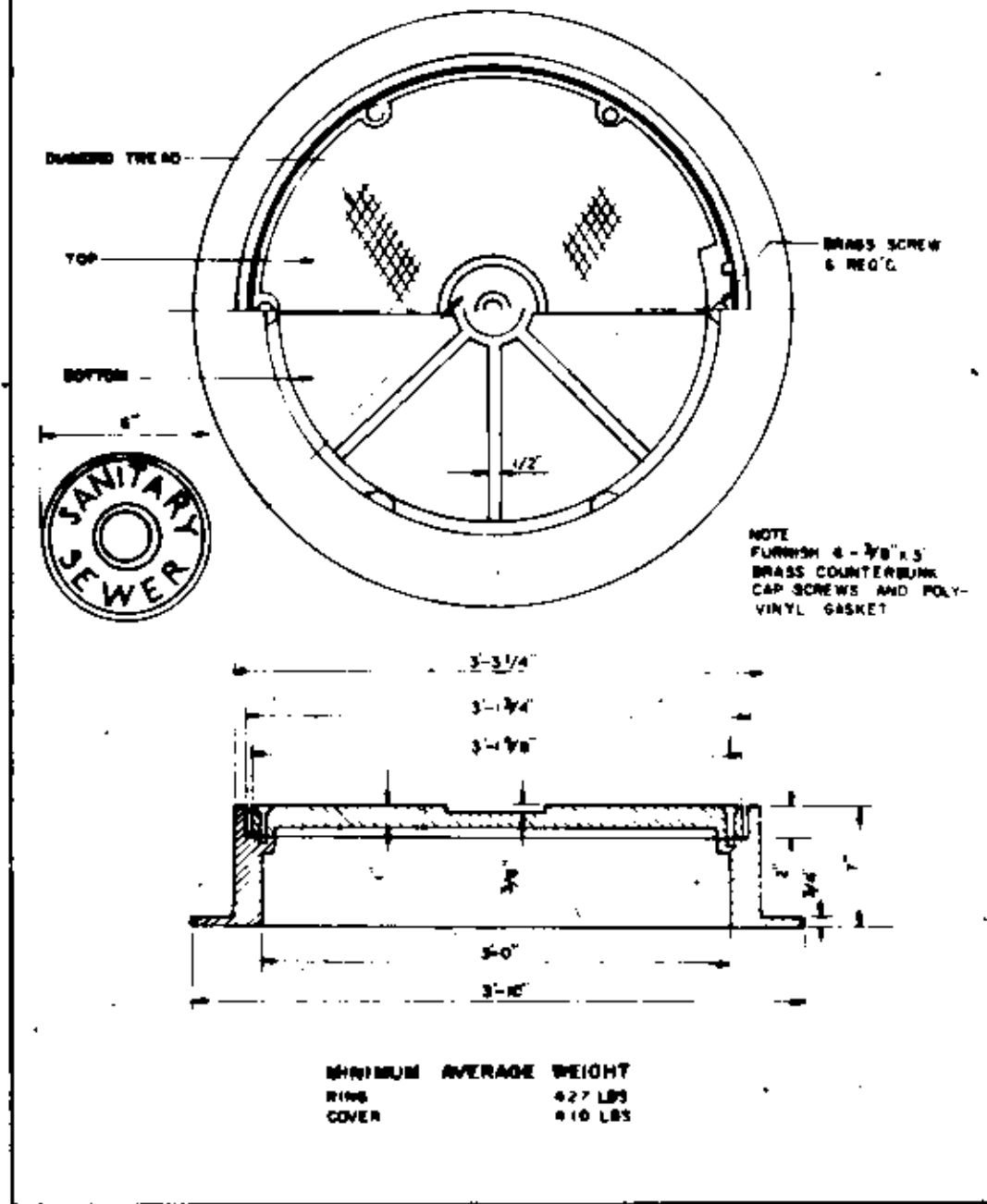
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 DROP CONNECTION
 DRAWING NUMBER S-4



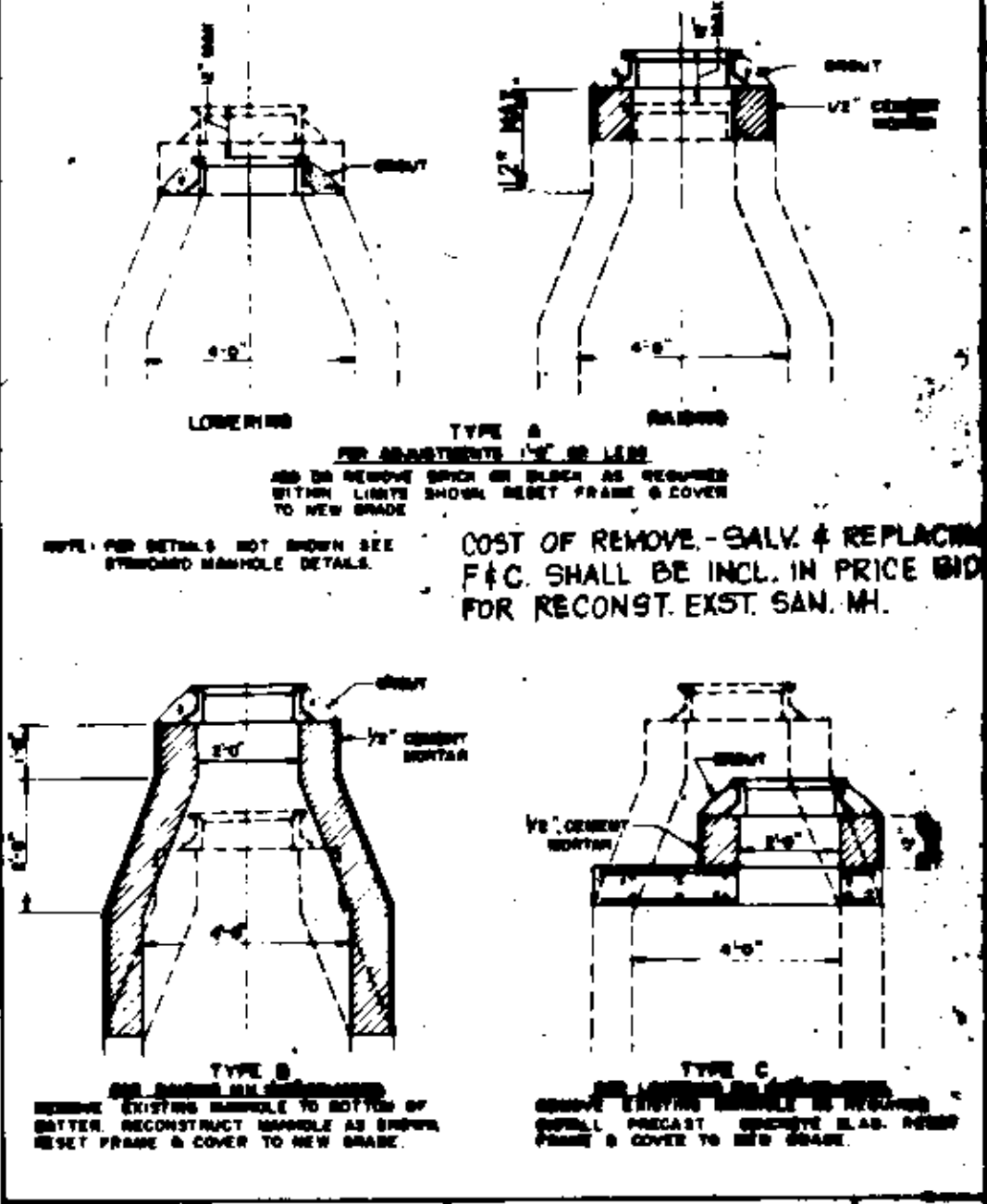
APPROVED *[Signature]*
 MANHOLE FRAME & COVER
 MHC-1
 24\"/>



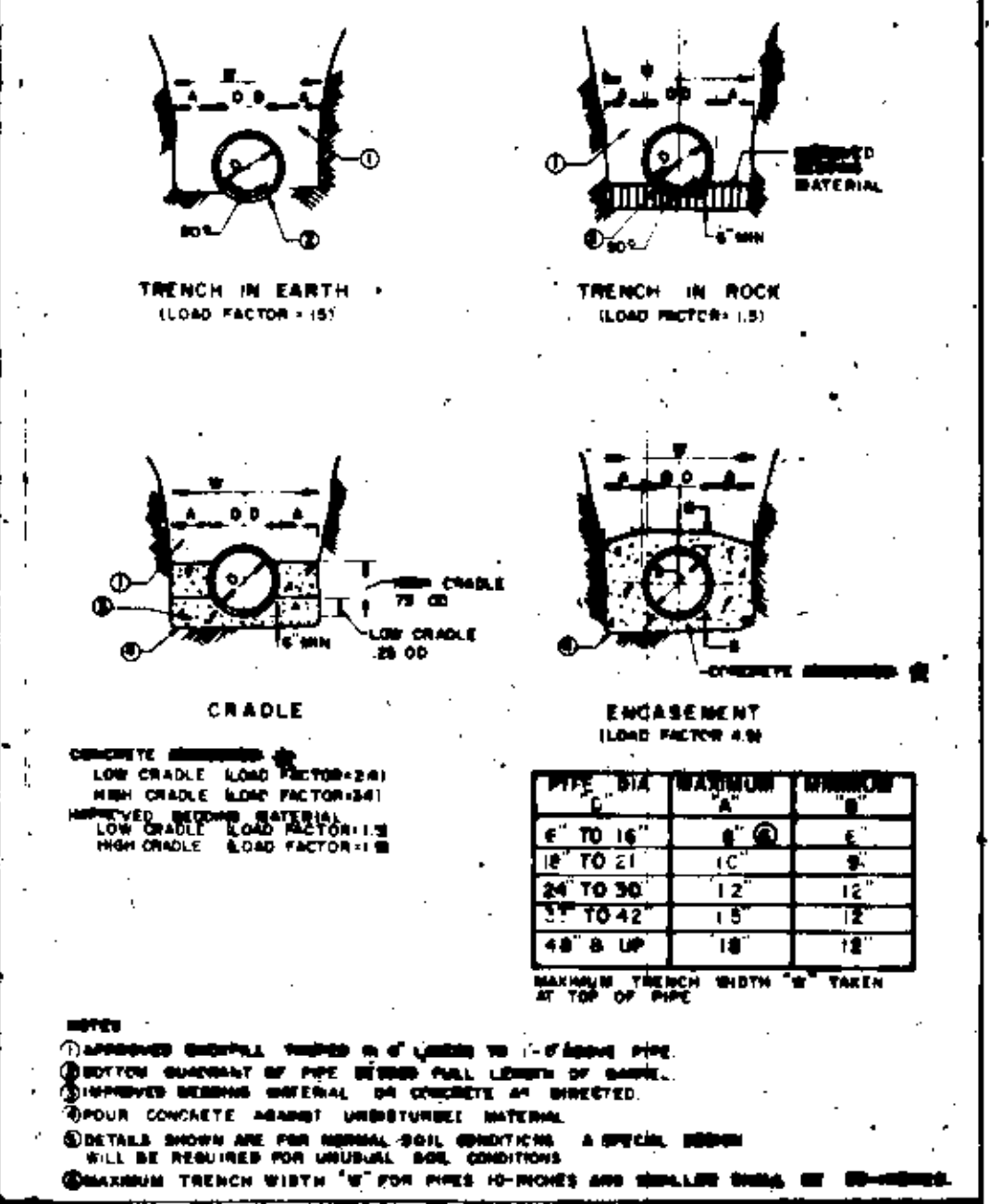
APPROVED *[Signature]*
 MANHOLE FRAME & COVER
 MHC-2
 24\"/>



APPROVED *[Signature]*
 MANHOLE FRAME & COVER
 MHC-3
 36\"/>



APPROVED *[Signature]*
 MANHOLE ADJUSTMENT
 DETAILS
 DRAWING NUMBER S-5



APPROVED *[Signature]*
 PIPE TRENCH AND
 BEDDING DETAILS
 DRAWING NUMBER E-1

MINIMUM ALLOWABLE BACKFILL FOR VARIOUS TYPES OF PIPE

| PIPE SIZE | EXTRA STRENGTH MANHOLE | STANDARD MANHOLE | CLASS IV | CLASS V | CLASS VI | CLASS VII | CLASS VIII |
|-----------|------------------------|------------------|----------|---------|----------|-----------|------------|
| 4" | 12" | 12" | 12" | 12" | 12" | 12" | 12" |
| 6" | 12" | 12" | 12" | 12" | 12" | 12" | 12" |
| 8" | 12" | 12" | 12" | 12" | 12" | 12" | 12" |
| 12" | 12" | 12" | 12" | 12" | 12" | 12" | 12" |
| 18" | 12" | 12" | 12" | 12" | 12" | 12" | 12" |
| 24" | 12" | 12" | 12" | 12" | 12" | 12" | 12" |
| 30" | 12" | 12" | 12" | 12" | 12" | 12" | 12" |
| 36" | 12" | 12" | 12" | 12" | 12" | 12" | 12" |
| 42" | 12" | 12" | 12" | 12" | 12" | 12" | 12" |
| 48" | 12" | 12" | 12" | 12" | 12" | 12" | 12" |

NOTES:
 1. ALL PIPE SHALL BE CLASS A-3 CONCRETE.
 2. ALL TO LEFT OF CENTER.
 3. FOR ADJUSTED CRADLE SEE DRAWING S-5.
 4. CRADLE TO MANHOLE COVER IS LIMITED TO THE MINIMUM PERMITTED. SHALL NOT BE GREATER THAN 12\"/>

APPROVED *[Signature]*
 MINIMUM ALLOWABLE
 BACKFILL FOR
 VARIOUS TYPES OF PIPE
 DRAWING NUMBER E-2

| FHWA REGION | STATE | FEDERAL AID ROUTE | PROJECT | ROUTE | STATE PROJECT | SHEET NO. |
|-------------|-------|-------------------|---------|-------|-------------------------|-----------|
| 3 | VA | | | 66 | 0066-000-102, B698/B699 | |

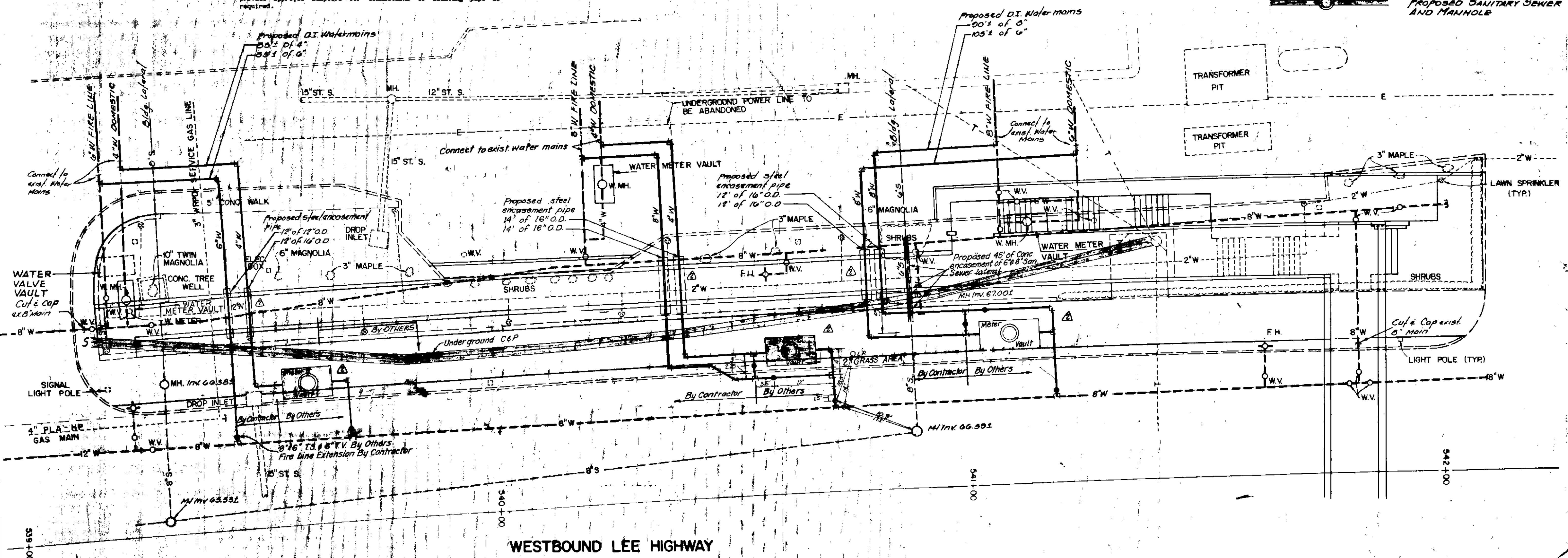
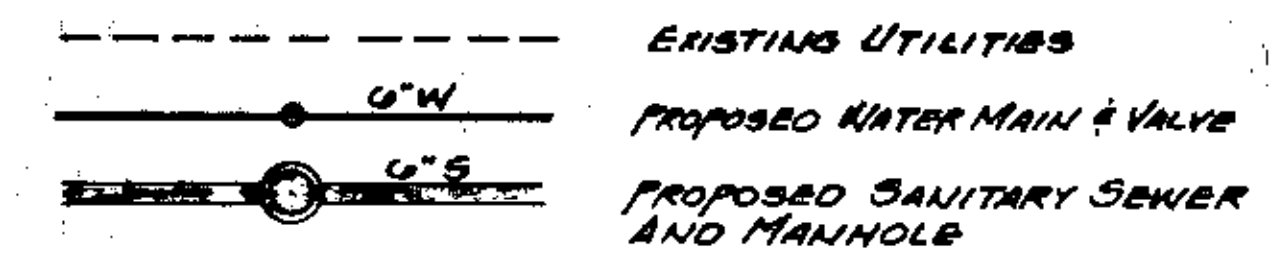
WATER MAIN AND SANITARY SEWER NOTES

1. Double Drop Pipe for water mains and sanitary sewers shall be class 752 minimum, with push on or mechanical joints. Fittings shall have mechanical joints.
2. The 24-inch frame and cover on the existing sanitary sewer manhole shall be raised on the new sanitary sewer manhole.
3. The three new water lines from the existing main thru the meter installation, as indicated on the plans, will be installed by Arlington County. Water lines from the meter installation to the connections to existing hotel services shall be installed by the Contractor in accordance with Arlington's Plumbing Code. Shut down of services to the hotel for connections shall be coordinated with the Marriott Hotel and Arlington County (558-2321) 48 hours minimum in advance of shut down.
4. All new water lines to the hotel shall be installed and in service before any construction work on the bridge is started in vicinity of the existing water services. The Contractor shall coordinate the location of the new water lines with the bridge construction and adjust bridge footing dimensions as necessary.
5. Contractor shall dig test pits to determine location, size and material of existing water lines and sewer laterals and shall provide approved adapters for connections to existing pipe as required.
6. Existing water mains, services and appurtenances that will not remain in service shall be abandoned as directed. All frames and covers and valve boxes shall be removed, abandoned pipes shall be plugged at all open ends and vaults shall be removed to 2 feet minimum below finished grade and filled with approved materials. All work shall be coordinated with Arlington County.
7. The Contractor shall notify Arlington County a minimum of 48 hours in advance of any work on water or sanitary sewer facilities, contact shall be with the Water & Sewer Engineering Section 558-2321.
8. Shut down of water and sanitary facilities and reconstructions shall be made during off-peak hours of usage by the Hotel, subject to approval by the Engineer.

WATER MAIN & SANITARY SEWER SUMMARY

| Bituminous Conc. Type S-5 | DUCTILE IRON WATER MAINS | | STEEL ENCSMT PIPE | | SAU/SEW PIPE | SAU/SEW MANHOLE ENCAGEMENT | CONCRETE |
|---------------------------|--------------------------|-----|-------------------|-----|--------------|----------------------------|----------|
| | 8" | 6" | 8" | 10" | 6" | LF | LF |
| Tons | LF | LF | LF | LF | LF | LF | LF |
| 30 | 230 | 180 | 160 | 68 | 12 | 10 | 45 |

LEGEND

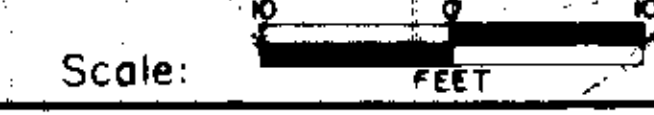


Restoration of Property
 After installation of water lines to Marriott and restoration of property, the Marriott driveway shall be resurfaced with bituminous conc. pavement type S-5 at 80 lbs. per Sq. Yd., between Sta. 539+104 to Sta. 541+404 (measured on N.B.L. Lee Highway); or as directed by the Engineer.

PEDESTRIAN PARK BRIDGE OVER ROUTE 66
UTILITY AND PIPING PLAN
 QUADRANT 6

Revised: June 16, 1986
 Water meter vault location & encasement pipes
 Revised as per the request of V.D.H.E.T.

Revised: March 21, 1985

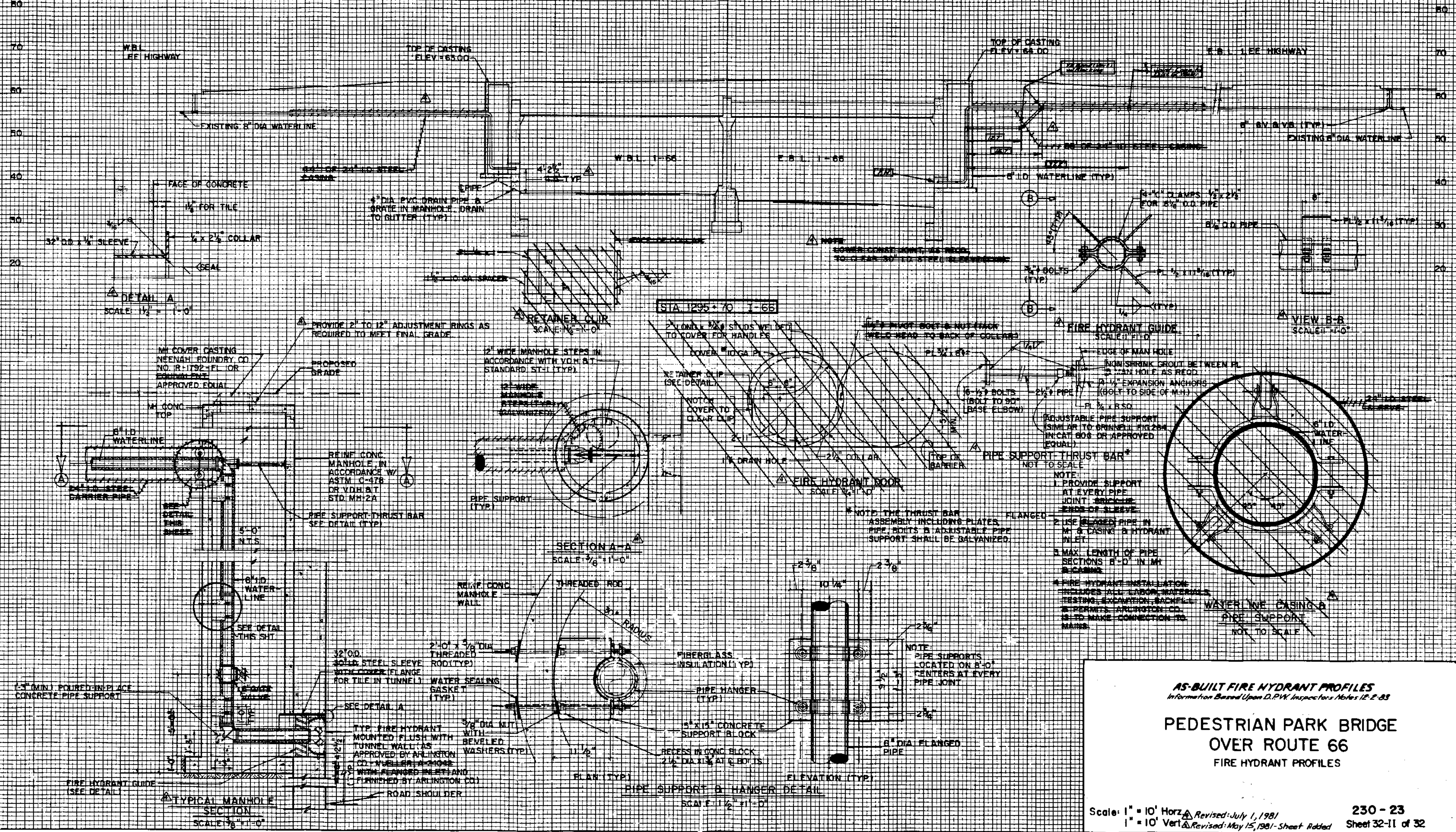


230-23A
 Sheet P-125 of 125

DESIGNED BY
 DRAWN BY
 CHECKED BY

FINAL SURVEY PLOTTED. NOTE BOOK AREAS CHECKED.

ORIGINAL SURVEY PLOTTED. NOTE BOOK AREAS CHECKED.



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' Horiz
 1" = 10' Vert

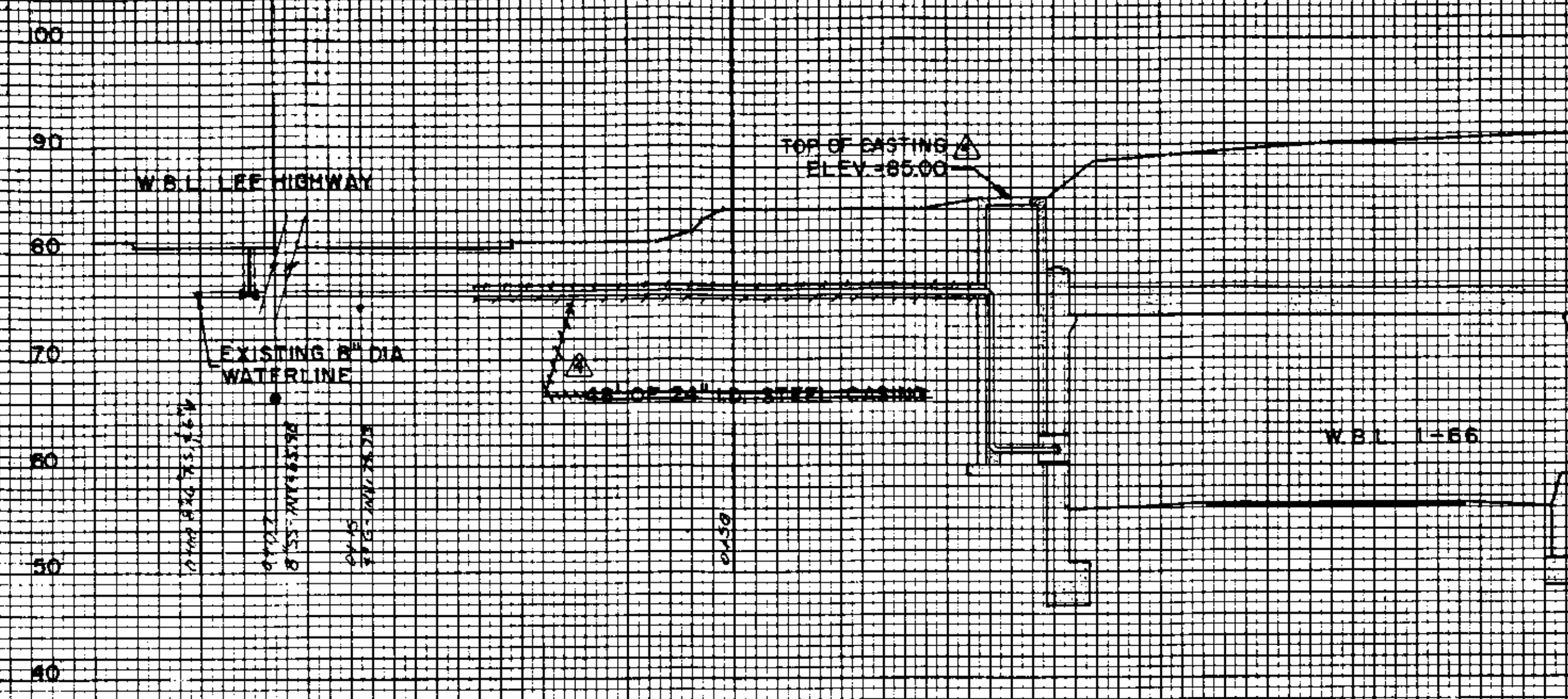
Revised: July 1, 1981
 Revised: May 15, 1981 - Sheet Added

230 - 23
 Sheet 32-11 of 32

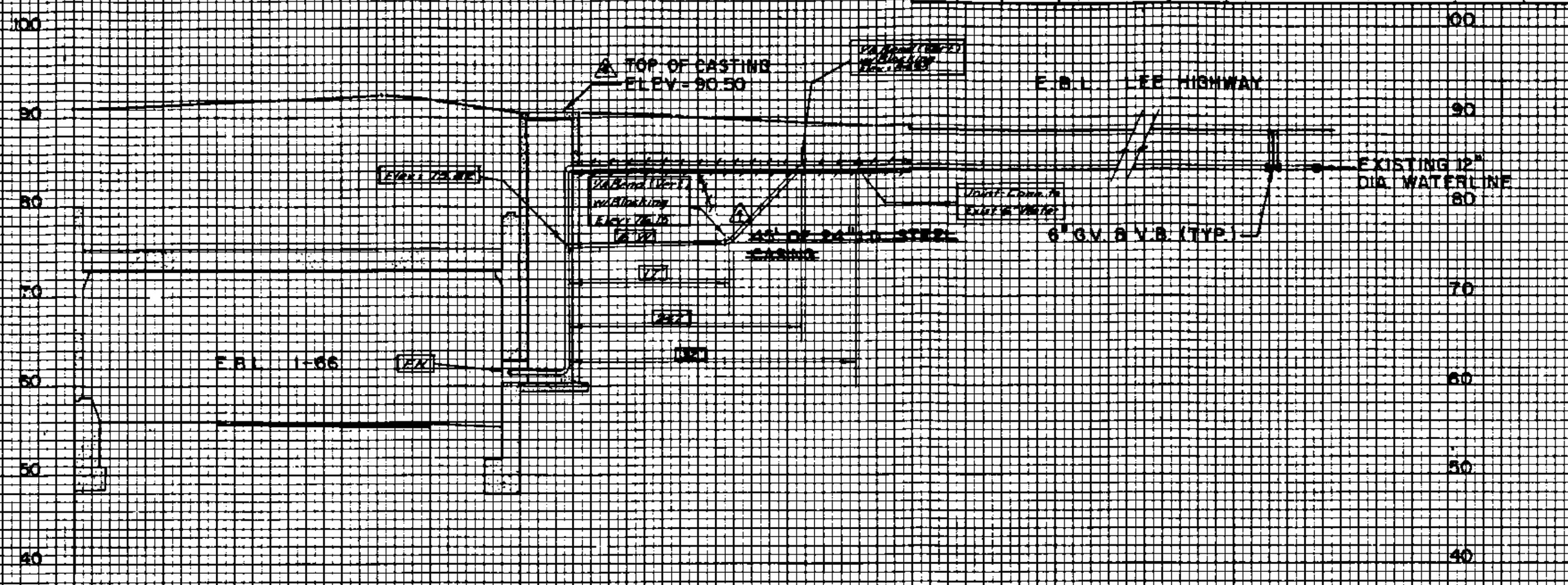
| FWSA REGION | STATE | FEDERAL AID | | STATE | SHEET NO. |
|-------------|-------|-------------|---------|-------|------------------------------|
| | | ROUTE | PROJECT | | |
| 3 | VA. | | | 66 | 0066-000-102,8886 (23 of 27) |

FINAL SURVEY PLOTTED BY DATE

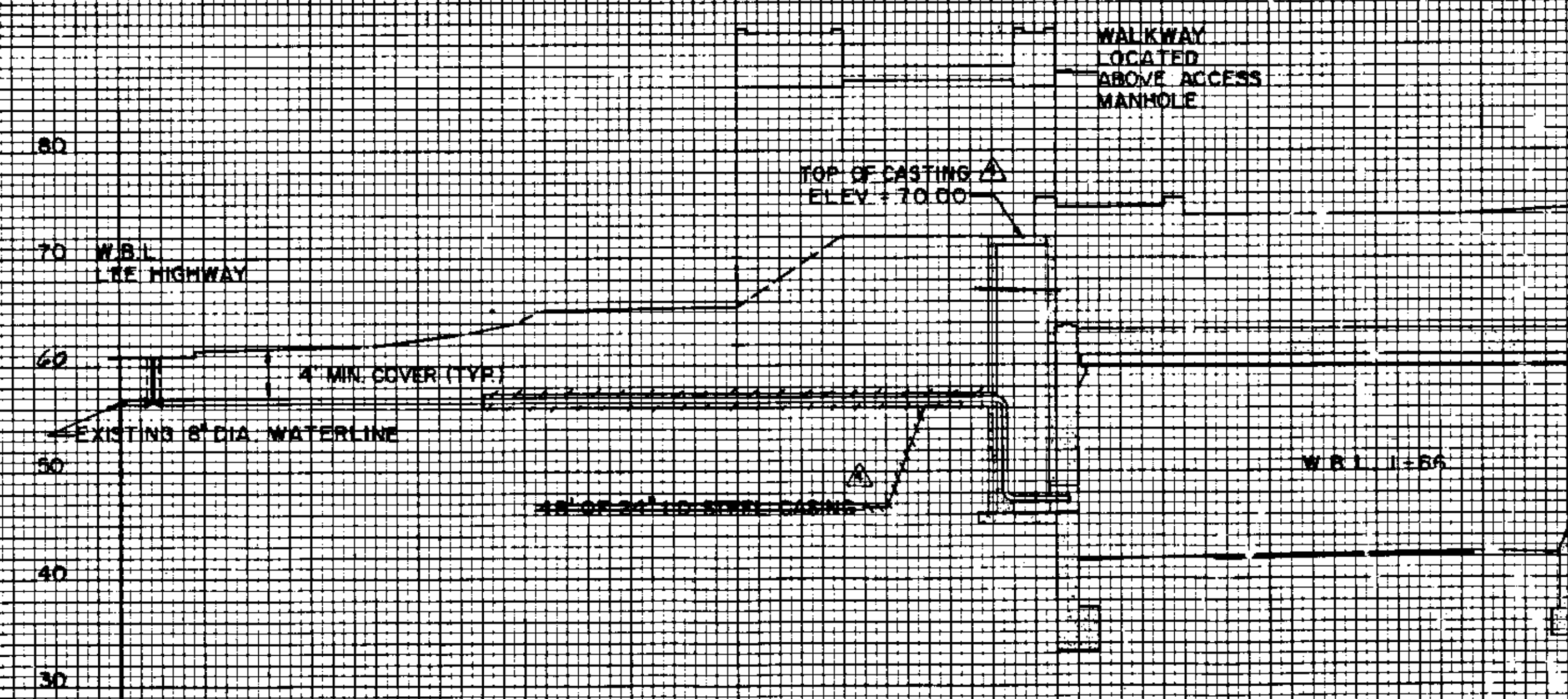
ORIGINAL SURVEY PLOTTED BY DATE



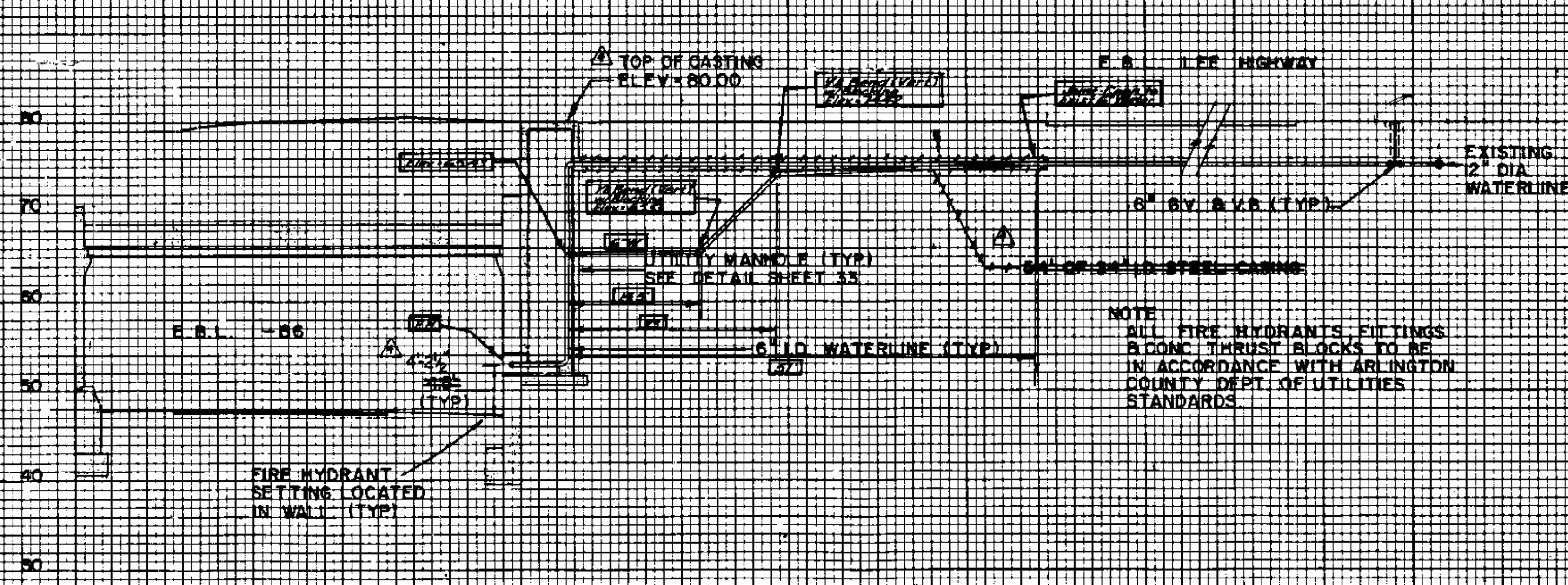
STA 1287+00 -66 W.B.L.



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



STA 129+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 12-83
**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

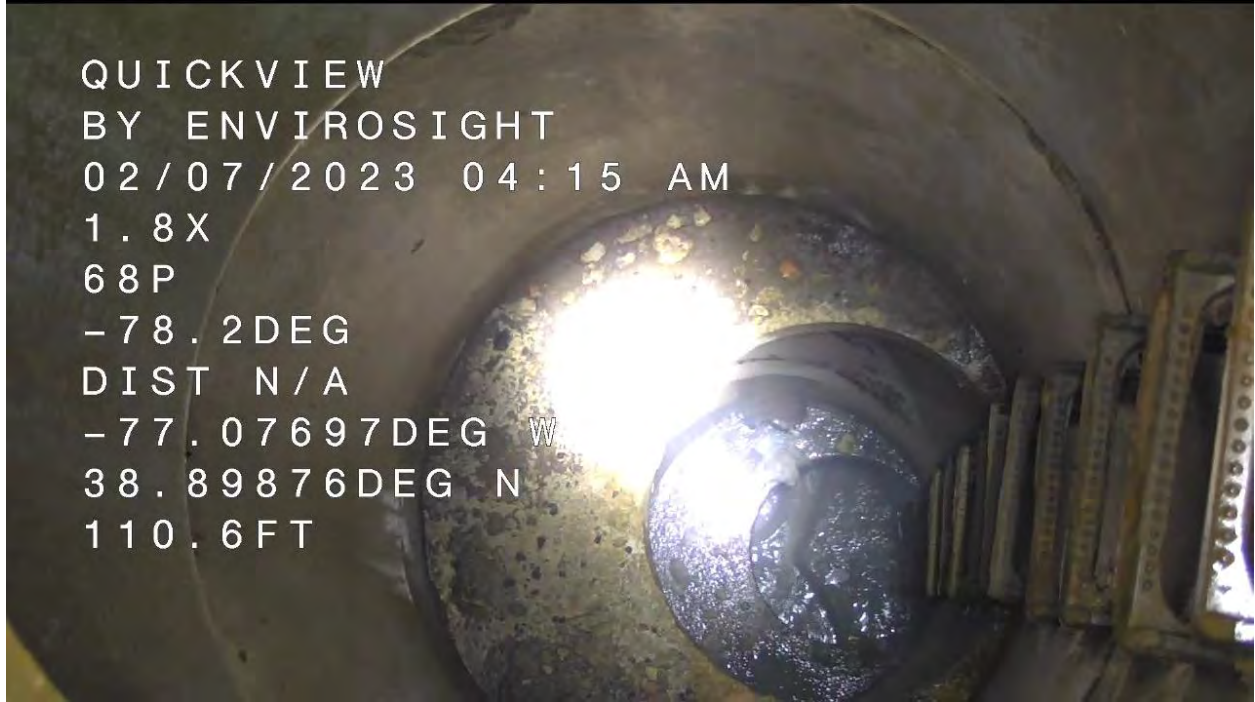




QUICKVIEW
BY ENVIROSIGHT
02/07/2023 04:14 AM
1.0X
68P
-77.7DEG
DIST N/A
-77.07697DEG W
38.89879DEG N
110.8FT



QUICKVIEW
BY ENVIROSIGHT
02/07/2023 04:14 AM
1.8X
68P
-75.9DEG
DIST N/A
-77.07702DEG W
38.89878DEG N
111.1FT



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 some yellowish debris or sediment visible. A yellow object is prominent 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 one above. The pipe's interior is dark and wet, with some yellowish debris or sediment visible. A yellow object is prominent in the center. The camera's field of view is partially obscured by the pipe's structure on the right side.