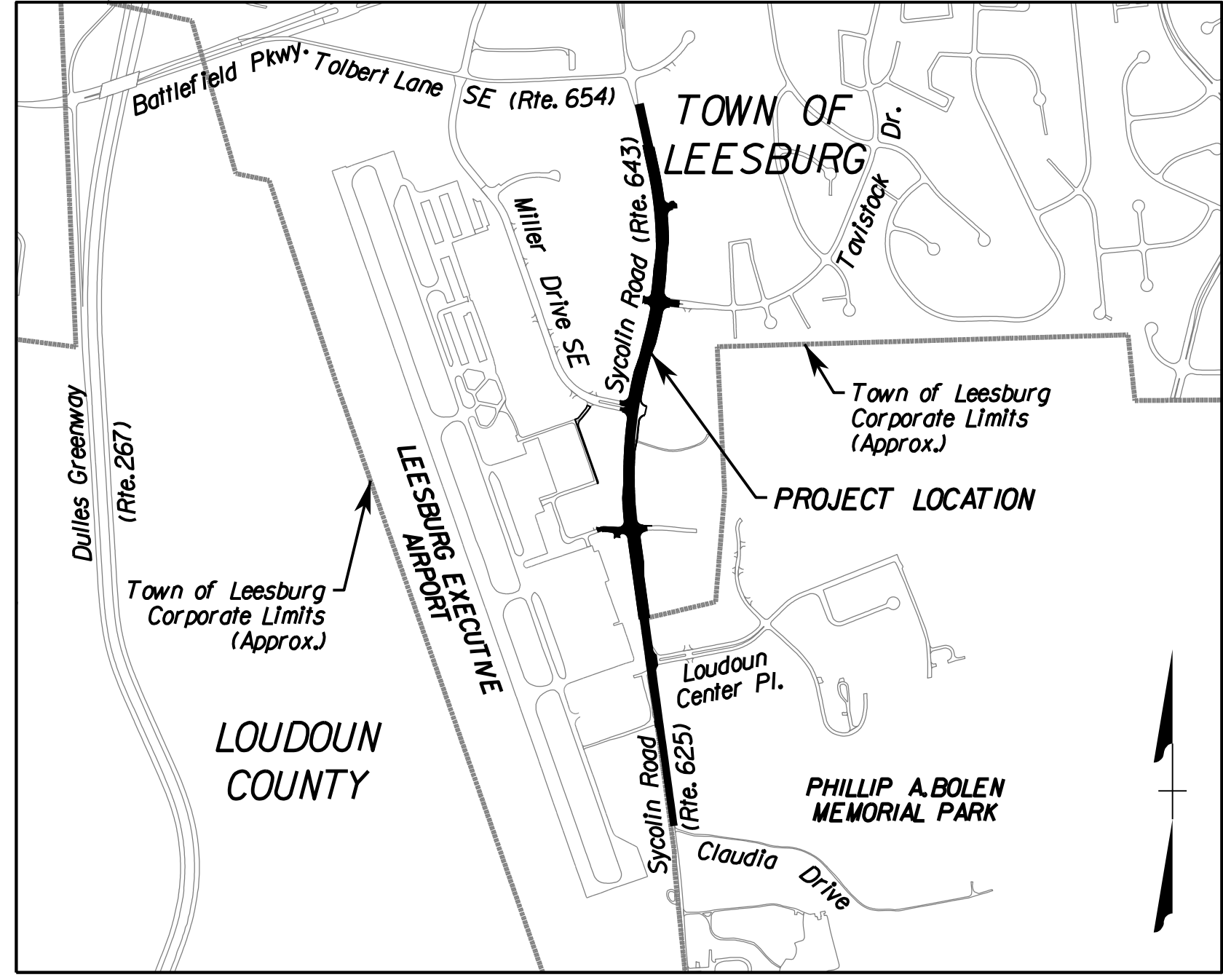


PROJECT MANAGER Anne Geller, (703) 771-2742 (Town of Leesburg)
SURVEYED BY Sidney Thomas, L.S., (703) 368-7373 (2015)
SUBSURFACE UTILITY BY Accumark, (800) 542-2990 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373
DESIGNED BY Sohal Dadir, P.E., (703) 368-7373

TOWN of LEESBURG, VA

CAPITAL IMPROVEMENT PROGRAM



VICINITY MAP SCALE: 1"=1,000'

NOTES

- A. UTILITIES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
B. WATER AND SEWER - DEPARTMENT OF UTILITIES, THE TOWN OF LEESBURG (703) 737-7595
C. STORM DRAIN AND TRAFFIC SIGNALS - DEPARTMENT OF PUBLIC WORKS, THE TOWN OF LEESBURG (703) 771-2790.
2. TEST PITS SHALL BE SHOWN AT ALL UTILITY CROSSINGS AND AT THE POINT OF CONNECTION TO EXISTING WATER MAINS.
B. GENERAL
1. A GRADING PERMIT IS TO BE OBTAINED FROM LOUDOUN COUNTY DEPARTMENT OF BUILDING AND DEVELOPMENT BEFORE ANY CONSTRUCTION IS STARTED.
2. THE DESIGN METHODS OF CONSTRUCTION AND FIELD PRACTICES SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE TOWN OF LEESBURG DESIGN AND CONSTRUCTION STANDARDS MANUAL AND THE DOCUMENTS REFERENCED THEREIN.
3. ALL ELEVATIONS MUST BE BASED ON USGS SURVEY DATUM AND THE SOURCE INDICATED ON THE PLANS.
4. HORIZONTAL AND VERTICAL CONTROL SURVEYS WERE RUN ON THE GROUND BY THE FOLLOWING FIRM: RINKER DESIGN ASSOCIATES
DATE: 2015 METHOD: TOTAL STATION/STATIC GPS CONTROL
5. TOPOGRAPHIC MAPPING SHOWN HEREON WAS PERFORMED BY THE FOLLOWING FIRM: RINKER DESIGN ASSOCIATES
DATE: 2015 METHOD: COMBINATION AERIAL TOPOGRAPHY & FIELD RUN TOPOGRAPHY
6. THE MERIDIAN FOR SURVEY BEARINGS SHOWN HEREON IS VA STATE GRID NORTH AND WAS ESTABLISHED AS FOLLOWS: STATIC GPS CONTROL WITH CONVENTIONAL SURVEY METHODS
7. COORDINATES OF POINTS OR MONUMENTS, IF SHOWN HEREON, ARE COORDINATES OF THE ESTABLISHED AS FOLLOWS: HORIZONTAL: VCS NAD83 NORTH ZONE VERTICAL: US SURVEY FOOT NAVD88 MIN. CLOSURE OF 1:20,000
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROCURE ALL APPLICABLE PERMITS, LICENSES, AND CERTIFICATES RELATIVE TO THE TRADES TO COMPLETE THE PROJECT AND FOR THE USE OF SUCH WORK WHEN COMPLETED. COMPLIANCE SHALL BE AT ALL LEVELS: FEDERAL, STATE, COUNTY, AND LOCAL RELATING TO THE PERFORMANCE OF HIS WORK.
C. SOLID WASTE - N/A
1. METHOD OF COLLECTION:
2. IF OTHER THAN CURB-SIDE PICKUP, CONTINUE:
3. NUMBER AND SIZE OF CONTAINERS:
4. TYPE OF CONTAINER:
5. METHODOLOGY USE TO COMPUTE SIZE:
6. FREQUENCY OF COLLECTION: TIMES/WEEK (MINIMUM OF 2 TIMES/WEEK)
D. SANITARY SEWERS - N/A
1. SEWER SHED:
2. GRAVITY SYSTEM: PUMPED:
3. PUMP STATION PROPOSED:
4. OFF-SITE SEWER EXTENSIONS REQUIRED:
5. REQUIRED LENGTH OF OFF-SITE SEWER:
6. ALL SANITARY SEWER AND APPURTENANCE INSTALLATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN'S DESIGN AND CONSTRUCTION STANDARDS MANUAL AND THE DOCUMENTS REFERENCED THEREIN.

- E. WATER SYSTEM
1. DOMESTIC WORKING PRESSURE AT HIGHEST FIXTURES: N/A psi
2. ALL WATER MAIN AND APPURTENANCE INSTALLATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN'S DESIGN AND CONSTRUCTION STANDARDS MANUAL AND THE DOCUMENTS REFERENCED THEREIN.
3. WATER MAINS SHALL BE DESIGNED IN CONFORMANCE WITH THE CURRENT EDITION OF THE WATER WORKS REGULATIONS OF THE VIRGINIA STATE BOARD OF HEALTH.
4. NO EXISTING WATER MAIN VALVES ARE TO BE OPENED OR CLOSED PRIOR TO NOTIFICATION OF THE TOWN OF LEESBURG UTILITY DEPARTMENT, 703-737-7075
F. FIRE FLOW - N/A
1. REQUIRED FIRE FLOW = gpm
2. AVAILABLE FIRE FLOW = gpm
3. FULL SPRINKLER SYSTEM:
4. PARTIAL SPRINKLER SYSTEM:
5. BOCA BUILDING CLASS UTILIZED:
G. CURRENT SITE INFORMATION - N/A
1. TAX MAP NUMBER:
2. LOT AND/OR PARCEL NUMBER:
3. ZONING:
4. DATE OF CURRENT ZONING:
5. RESOLUTION NUMBER:
6. REZONING NUMBER:
7. TOTAL AREA:
8. OPEN SPACE AREA:
9. STREET AREA:
10. NUMBER OF LOTS CREATED BY SUBDIVISION:
H. PARKING TABULATIONS - N/A
1. SPACES REQUIRED:
2. SPACES PROVIDED:
3. NO TYPE
4. HISTORIC DISTRICT PARKING FEE AT \$ PER SPACE
5. SPACES REQUIRED = \$ TOTAL
I. STORM SEWER AND CULVERTS
1. ALL STORM SEWER AND CULVERT INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE TOWN'S DESIGN AND CONSTRUCTION STANDARDS MANUAL AND THE DOCUMENTS REFERENCED THEREIN.
J. STORMWATER MANAGEMENT
1. WATERSHED: PL-16 GOOSE CREEK -CATTAIL BRANCH PL-15 SYCOLIN CREEK
2. DETENTION PROVIDED FOR:
2 - YEAR
10 - YEAR
OTHER N/A STORM EVENT
3. ADEQUATE CHANNEL:
2 - YEAR
10 - YEAR
25 - YEAR N/A
OTHER N/A
K. BMP REQUIRED
YES
NO
L. BEST MANAGEMENT PRACTICES (BMP)

Table with 4 columns: AGENCY INFORMATION, REQ., NOT REQ., TOL ID #, COMMENTS. Lists various agency requirements such as VA Marine Resource Commission, Corps of Engineers, FEMA, VDOT, VA Dept of Health - Water, Loudoun County Health Department, Fire Marshal, E & S Controls, Building Permits, Flood Plain Study, Traffic Study, Soils Report, On Site Easements, Legal Review, Off Site Easements, Letters of Permission, Board of Arch. Review, VDOT Traffic Study Review, Board of Zoning Appeals.

SHEET INDEX table with columns SHEET NO. and TITLE. Entry: See Sheet 1B for Sheet Index.

REVISIONS PRIOR TO APPROVAL table with columns DATE and DESCRIPTION. All cells are empty.

VARIATIONS OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS OR MODIFICATIONS OF THE ZONING table with columns ID NO., TL REF #, CITATION, PLAN SHEET, DATE APPROVED.

MODIFICATION OR INTERPRETATION OF DCSM BY THE DIRECTOR OF PLAN REVIEW table with columns ID NO., CITATION, PLAN SHEET, DESCRIPTION, DATE APPROVED. Lists items like WATER LINE COVER, MINIMUM CURB AND GUTTER LONGITUDINAL GRADE, STREET LIGHT SPACING, SIDEWALK GRADED AREA, SIDEWALK BUFFER STRIP WIDTH, SHARED USE PATH BUFFER WIDTH, SHARED USE PATH LATERAL OFFSET.

TOWN OF LEESBURG APPROVALS table listing approvals for Public Works and Capital Projects, Office of Capital Projects, Capital Projects, Zoning, and Utilities, including names and dates.

THIS APPROVAL IS NOT A COMMITMENT TO PROVIDE PUBLIC SANITARY SEWER OR WATER.



Mark A Gunn
2018.08.06 11:03:22 -04'00'
Rinker Design Assoc. P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

CAPITAL IMPROVEMENTS PROGRAM table containing project name, owner, address, engineer, and a table of REVISIONS TO APPROVED DRAWINGS.

Table with columns: DEG CERTIFICATION #, POTOMAC - 020, NRIP FACILITY: STONE RIDGE NUTRIENT BANK, BMP TYPE, TOTAL SITE AREA (AC), TOTAL PRE-EXIST. IMPERV. AREA (AC), TOTAL POST IMPERV. AREA (AC), TOTAL PERV. AREA (AC), ACRES TREATED (AC), IMPERV. AREA TREATED (AC), PERV. AREA TREATED (AC), LOC. (VA STATE PLANE COORDINATES (83 NAD)), STRUCT. NO. /SIZE. Includes a summary row for U/G FACILITY and EX. DRY POND.

100% PLANS

Vertical sidebar containing project name: SYCOLIN ROAD WIDENING PHASE IV FROM CLAUDIA DRIVE TO TOLBERT LANE S.E., title: TITLE SHEET, location: Loudoun County, Virginia, project manager: MARK A. GUNN, P.E., and other project details.



ENGINEER: Rinker Design Associates, P.C.
Engineering - Surveying - Land Planning - Transportation - Environmental Services
8086 Discovery Blvd., Suite 200, Manassas Virginia 20108 on the web @ www.rinker.com
Telephone: (703) 368-7373 Fax: (703) 370-5443
To Make Your Vision Reality

PROJECT NAME: SYCOLIN ROAD WIDENING PHASE IV FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.
TITLE SHEET
Loudoun County, Virginia
Town of Leesburg
SUBMISSION DATE: 04/13/2018

ASSOCIATED PLAN: TLPE-2017-0011 LEESBURG TECH PARK
C.I.P. NUMBER: TLCI-2016-0002
VDOT PROJ. NO.: U000-253-312
TOWN NUMBER: TBD
Sheet 1 of 20

PROJECT MANAGER: Susie Lue (703) 259-2918 (VDOT)
 SURVEYED BY, DATE: Sidney Thomas, L.S., (703) 368-7373 (February, 2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 SUBSURFACE UTILITY BY, DATE: Accumark, (800) 542-2990 (March, 2015)

FOR INDEX OF SHEETS SEE SHEET 1B

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
 GEOPAK Computer Identification No. 102895



COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED
 SYCOLIN ROAD WIDENING
 PHASE IV

From: Claudia Drive
 To: Tolbert Lane SE

FHWA-534 DATA 35003
 UPC 102895

STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
	STP-5A01()		(NFO) U000-253-312	
VA.	SEE TABULATIONS BELOW FOR SECTION NUMBERS	643	SEE TABULATIONS BELOW FOR SECTION NUMBERS	1

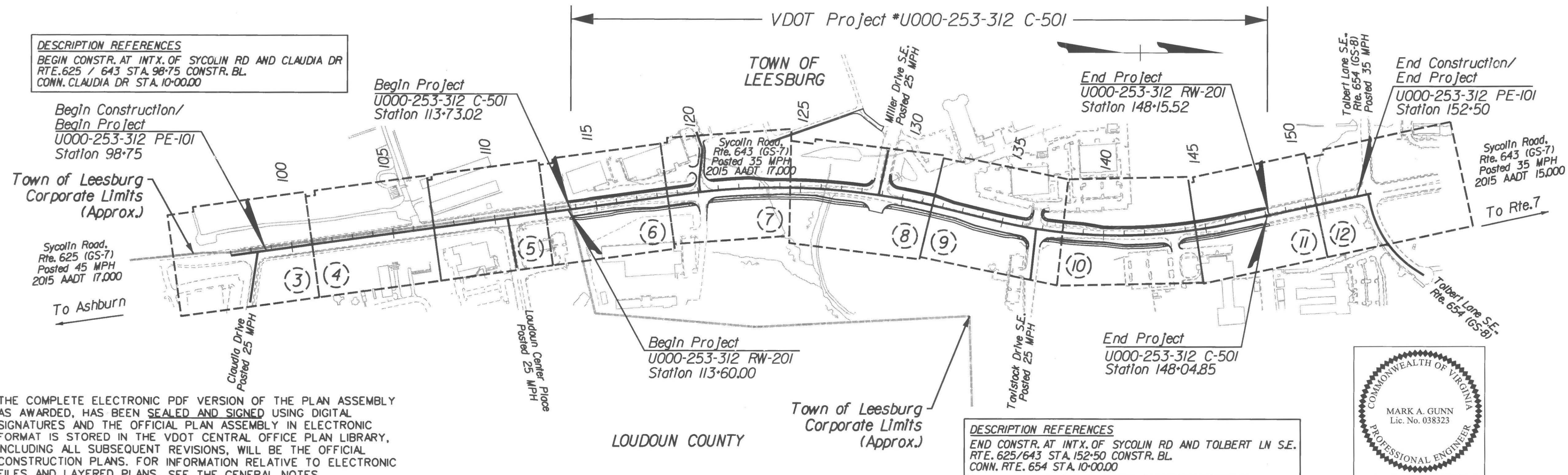
FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA				
SYCOLIN RD. (RTE. 625)	SYCOLIN RD. (RTE. 643)		MAJOR COLLECTOR (GS-7) - ROLLING	
	Fr: Claudia Drive To: South Corporate Limits (Town of Leesburg)	Fr: South Corporate Limits (Town of Leesburg) To: Miller Drive S.E.	Fr: Miller Drive S.E. To: Tolbert Drive S.E.	
ADT (2015)	17,000	17,000	15,000	
ADT (2039)	27,350	27,350	24,130	
DHV (2015)	TBD	TBD	TBD	
D (%) (2015)	52.5/47.5	52.5/47.5	52.5/47.5	
T (%) (2015)	8.1%	8.1%	11.3%	
V (MPH)	45 (Posted)	35 (Posted); 40 (Des'gn)	35 (Posted); 40 (Des'gn)	

CONVENTIONAL SIGNS

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

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

DESCRIPTION REFERENCES
 BEGIN CONSTR. AT INTX. OF SYCOLIN RD AND CLAUDIA DR
 RTE. 625 / 643 STA. 98+75 CONSTR. BL.
 CONN. CLAUDIA DR STA. 10+00.00



THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, HAS BEEN SEALED AND SIGNED USING DIGITAL SIGNATURES AND THE OFFICIAL PLAN ASSEMBLY IN ELECTRONIC FORMAT IS STORED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE THE GENERAL NOTES.

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

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2016 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2015 VIRGINIA WORK AREA PROTECTION MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

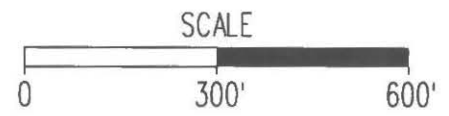
ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD IC-5.11.U, EXCEPT WHERE OTHERWISE NOTED.

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

DESCRIPTION REFERENCES
 END CONSTR. AT INTX. OF SYCOLIN RD AND TOLBERT LN S.E.
 RTE. 625/643 STA. 152+50 CONSTR. BL.
 CONN. RTE. 654 STA. 10+00.00

COMMONWEALTH OF VIRGINIA
 MARK A. GUNN
 Lic. No. 038323
 PROFESSIONAL ENGINEER

Mark A Gunn
 2018.04.16 08:30:58 -04'00'
 Rinker Design Assoc. P.C.
 (Manassas, Virginia)
 (ROADWAY ENGINEER)



Population Town of Leesburg 52,607 (Est. 2016 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES			LENGTH INCLUDING BRIDGE(S)			LENGTH EXCLUDING BRIDGE(S)			BRIDGE PROJECT NO.	TYPE PROJECT	DESCRIPTION
					FEET	FEET	MILES	FEET	FEET	MILES	FEET	FEET	MILES			
U000-253-312	PE-101	STP-5A01(547)	PENG	102895	5,375.00	5,375.00	1.0180	5,375.00	1.0180	-	-	-	-	Prelim. Eng.	From Claudia Dr. to Tolbert Ln.	
	RW-201	STP-5A01(740)	ROWA	102895	3,455.52	3,455.52	0.6545	3,455.52	0.6545	-	-	-	-	Right of Way	From 0.3 MI. N. of Claudia Dr. to Approx. 500' S. of Tolbert Ln.	
	C-501	STP-5A01(741)	F000	102895	3,431.83	3,431.83	0.6500	3,431.83	0.6500	-	-	-	-	Construction	From S. Corporate Limits to Approx. 500' S. of Tolbert Ln.	

NOTE: Project Lengths are based on Sycolin Rd. (Rte. 625/643) Construction Baseline.

100% PLANS
 APRIL 2018

TIER 2 PROJECT
 LOCALLY ADMINISTERED PROJECTS

TOWN OF LEESBURG	NAME OF LOCALITY
Renee M. LaFollette	RENEE M. LAFOLLETTE
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
01/04/17	DIRECTOR OF PUBLIC WORKS AND CAPITAL PROJECTS
DATE	TITLE OF POSITION
<i>Renee M. LaFollette</i>	RENEE M. LAFOLLETTE
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
5/8/18	DIRECTOR OF PUBLIC WORKS AND CAPITAL PROJECTS
DATE	TITLE OF POSITION
01/23/17	Kim Pryor
DATE	INFRASTRUCTURE INVESTMENT DIRECTOR
02/22/17	Barton A. Thrasher
DATE	STATE LOCATION AND DESIGN ENGINEER
02/22/17	John W. Lawson
DATE	CHEF FINANCIAL OFFICER
02/23/17	Mohammad Mirshahi
DATE	CHEF ENGINEER

APPROVED FOR RIGHT OF WAY

1/23/17	Richard L. Walton
DATE	CHEF OF POLICY

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION

01/19/18	<i>[Signature]</i>
DATE	INFRASTRUCTURE INVESTMENT DIRECTOR
7/19/18	<i>[Signature]</i>
DATE	STATE LOCATION AND DESIGN ENGINEER
DATE	STATE STRUCTURE AND BRIDGE ENGINEER
7/25/2018	<i>[Signature]</i>
DATE	CHEF FINANCIAL OFFICER

APPROVED FOR CONSTRUCTION

7/26/2018	<i>[Signature]</i>
DATE	CHEF ENGINEER

APPROVED

DATE	DIVISION ADMINISTRATOR
	FEDERAL HIGHWAY ADMINISTRATION
	U.S. DEPARTMENT OF TRANSPORTATION

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 PROJECT U000-253-312
 SHEET NO. 1

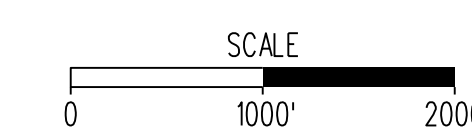
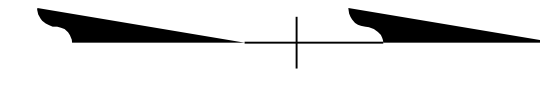
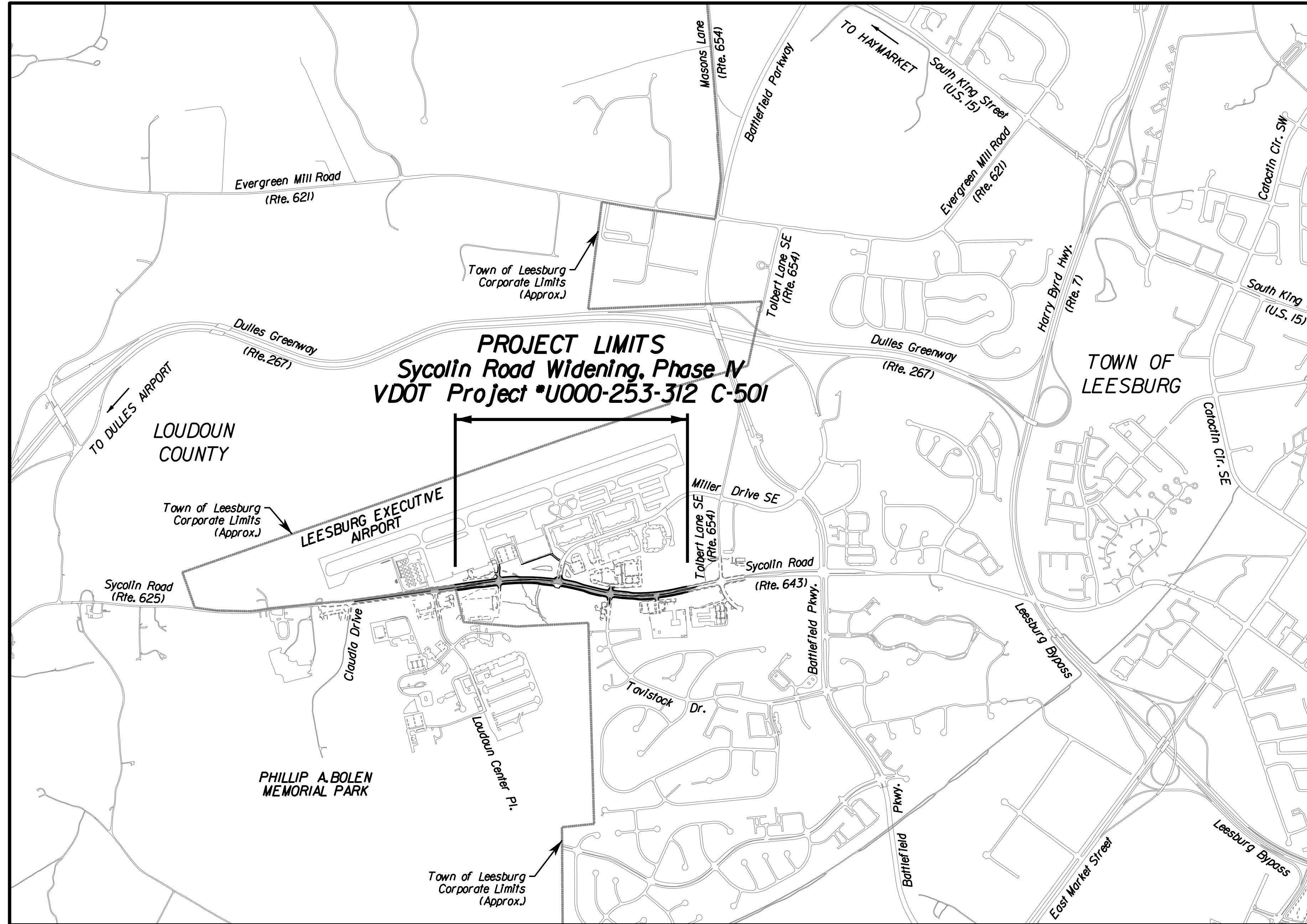
4/13/2018

100% PLANS

PROJECT MANAGER: Anne Gelaer, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: AccuMark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sahab Dadir, P.E., (703) 368-7373

PROJECT LOCATION MAP

SYCOLIN ROAD WIDENING, PHASE IV TOWN OF LEESBURG, VIRGINIA



ASSOCIATED PLAN	
C.I.P. NUMBER:	TLCI-2016-0002
VDOT PROJ. NO.	U000-253-312
TOWN NUMBER:	TBD

PROJECT NAME: **SYCOLIN ROAD WIDENING PHASE IV FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.**
 PROJECT LOCATION MAP
 Town of Leesburg
 Loudoun County, Virginia
 SUBMISSION DATE: 02/21/2018

ENGINEER:
Rinker Design Associates, P.C.
 Engineering - Surveying - Land Planning - Transportation - Environmental Services
 1000 West Bank Drive, Suite 200, Leesburg, VA 20176
 Telephone: (703) 368-7373 Fax: (703) 368-7373
 www.rinker.com
 to Make Your Vision Reality



PROJECT MANAGER: MARK A. GUNN, P.E.

PROJECT MANAGER *Anne Geisler, (703) 771-2742 (Town of Leesburg)*
 SURVEYED BY *Sidney Thomas, L.S., (703) 368-7373 (2015)*
 SUBSURFACE UTILITY BY *Accumark, (800) 542-2990 (2015)*
 DESIGN SUPERVISED BY *Mark A. Gunn, P.E., (703) 368-7373*
 DESIGNED BY *Sahab Qadiri, P.E., (703) 368-7373*

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PROJECT NAME: **SYCOLIN ROAD WIDENING PHASE IV FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.**

ASSOCIATED PLAN: **TLCI-2016-0002**

C.I.P. NUMBER: **U000-253-312**

VDOT PROJ. NO. **U000-253-312**

ENGINEER: **Rinker Design Associates, P.C.**
 Engineering - Surveying - Land Planning - Transportation - Environmental Services
 8000 Occoquan Blvd., Suite 200, Manassas, Virginia 20108 on the web @ www.rinker.com
 Telephone: (703) 368-7373 Fax: (703) 370-5443
 E-mail: info@rinker.com
 to Make Your Vision Reality

PROJECT MANAGER: **MARK A. GUNN, P.E.**

Town of Leesburg

Loudoun County, Virginia

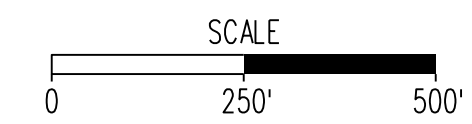
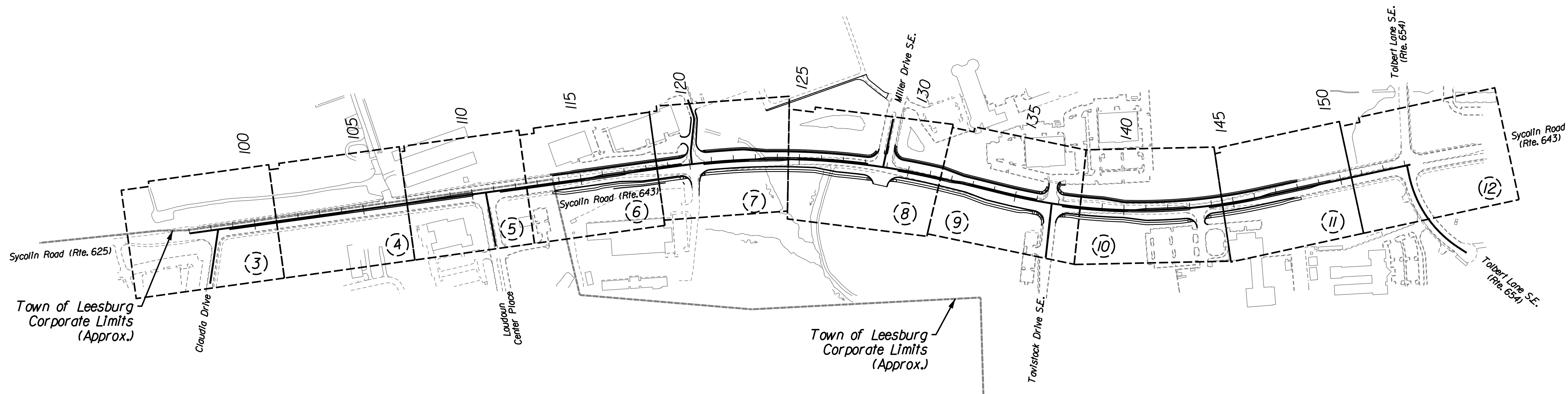
SUBMISSION DATE: 02/21/2018

TOWN NUMBER: TBD

INDEX OF SHEETS

PROJECT MANAGER: Anne Gelaer, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: AccuMark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sahab Dadr, P.E., (703) 368-7373

PLAN SHEET LAYOUT



ASSOCIATED PLAN
 C.I.P. NUMBER: TLCl-2016-0002
 VDOT PROJ. NO. U000-253-312

TOWN NUMBER: TBD

PROJECT NAME: **SYCOLLIN ROAD WIDENING PHASE IV**
FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.

PLAN SHEET LAYOUT

Town of Leesburg
 SUBMISSION DATE: 02/21/2018
 Loudoun County, Virginia

ENGINEER:
Rinker Design Associates, P.C.
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 to Make Your Vision Reality.



PROJECT MANAGER: MARK A. GUNN, P.E.

PROJECT MANAGER Anne Geiger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY Accumark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY Sabah Qadiri, P.E., (703) 368-7373

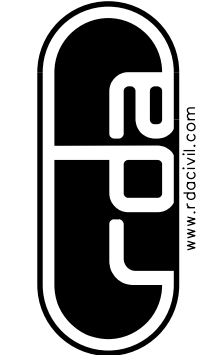
SYCOLIN ROAD WIDENING PHASE IV
 Town of Leesburg C.I.P.: TLCI-2016-0002
 State Project: U000-253-312
 Federal Project: STP-5A01(547)
 From: Claudia Drive
 To: Tolbert Lane S.E.
 UPC Number: 102895

REVISION DATA SHEET

Revision No.1 - DIT Conduit & Storm Sewer Revision

07/12/2017 - The revisions completed are as follows:
 Sheet 2K(4) - Updated HGL Computations.
 Sheet 2K(6) - Updated HGL Computations.
 Sheet 2K - Revised drainage descriptions for pipe runs "7-4 to 7-5", "7-7 to 7-8", and "8-26 to 8-23".
 Sheet 2K(2) - Revised pipe runs "7-4 to 7-5" and "7-7 to 7-8". Updated fiber optic crossings.
 Sheet 2K(3) - Updated call out for pipe run "7-7 to 7-8". Updated fiber optic crossing.
 Sheet 2K(4) - Revised pipe run "8-26 to 8-23".
 Sheet 2K(5) - Updated call out for pipe run "8-26 to 8-23".
 Sheet 2K(6) - Updated fiber optic crossing.
 Sheet 2K(7) - Updated fiber optic crossing.
 Sheet 2K(8) - Updated SWM Structure Details for revised pipe "8-26 to 8-23".
 Sheet 7 - Revised storm sewer pipe "7-7 to 7-8".
 Sheet 8 - Revised storm sewer pipe "8-26 to 8-23".
 Sheet 18 - Added conduit separation note.
 Sheet 18(1) - Revised concrete encased limits. Added conduit separation note.
 Sheet 18(2) - Added conduit separation note.
 Sheet 18(3) - Added notes.
 Sheet 18(4) - Added conduit separation note.
 Sheet 18(5) - Added conduit separation note.
 Sheet 18(6) - Revised Loudoun County DIT conduit profile.
 Sheet 18(7) - Revised Loudoun County DIT conduit profile.
 Sheet 18(8) - Revised Loudoun County DIT conduit profile.
 Sheet 18(9) - Revised notes and details.
 Sheet 18(10) - Added Street Light Conduit Plan note 7.

08/03/2017 Update - The revisions completed are as follows:
 Sheet 9 - Revised light poles location.
 Sheet 18(3) - Updated 8" gas line location, revised light poles location, revised Loudoun DIT conduit, removed horizontal directional drill option, added note.
 Sheet 18(4) - Removed horizontal directional drill option.
 Sheet 18(7) - Added 8" gas line crossing and note, removed horizontal directional drill option.
 Sheet 18(8) - Removed horizontal directional drill option.

	<p style="text-align: center;">ENGINEER: Rinker Design Associates, P.C. Engineering - Surveying - Land Planning - Transportation - Environmental Services <small>6000 DeCorney Blvd, Suite 200, Manassas Virginia 20108 on the web @ www.rinkrad.com Telephone: (703) 368-7373 Fax: (703) 370-5443 To Make Your Vision Reality</small></p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">PROJECT NAME: SYCOLIN ROAD WIDENING PHASE IV FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.</p>	<p style="text-align: center;">REVISION DATA SHEET</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">TOWN OF LEESBURG SUBMISSION DATE: 04/13/2018</p>	<p style="text-align: center;">Loudoun County, Virginia</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">ASSOCIATED PLAN</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">C.I.P. NUMBER: TLCI-2016-0002 VDOT PROJ. NO. U000-253-312</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">TOWN NUMBER: TBD</p>	<p style="text-align: center;">Sheet 1C of 20</p>

PROJECT MANAGER *Anne Geiger, (703) 771-2742 (Town of Leesburg)*
 SURVEYED BY *Sidney Thomas, L.S., (703) 368-7373 (2015)*
 SUBSURFACE UTILITY BY *Accumark, (800) 542-2990 (2015)*
 DESIGN SUPERVISED BY *Mark A. Gunn, P.E., (703) 368-7373*
 DESIGNED BY *Sahab Dadir, P.E., (703) 368-7373*

DEMOLITION SUMMARY

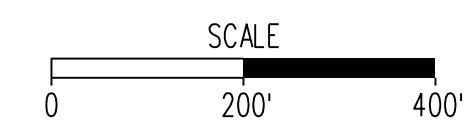
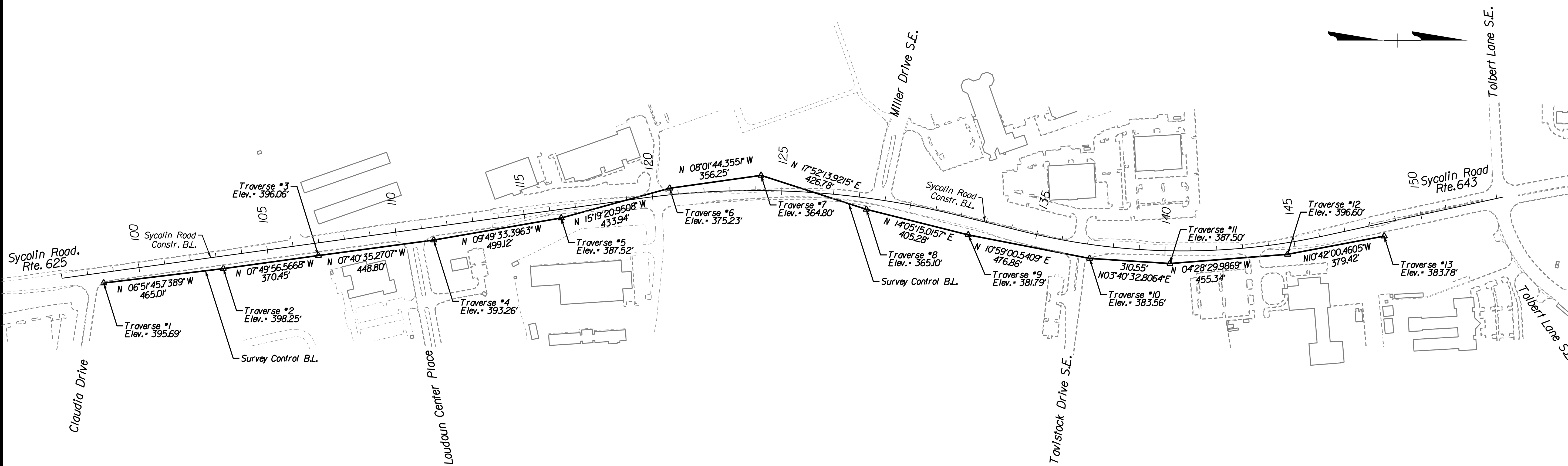
DEMOLITION OF BUILDING / CLEARING OF PARCEL / CLOSING WELL / UNDERGROUND STORAGE TANK REMOVAL SUMMARY

VDOT PROJECT NUMBER: U000-253-312, C-501

SHEET NUMBER	PARCEL NUMBER	DEMOLITION NUMBER	LANDOWNER	SYCOLIN RD C.BL. STATION Rt. OR Lt.	DESCRIPTION	INCLUDED IN CONTRACT							NOT IN CONTRACT	
						DEMOLITION OF LIGHTS	DEMOLITION OF BUILDINGS	CLEARING OF PARCEL	DEMOLITION OF SIGN	CLOSING WELL	UNDERGROUND STORAGE TANK REMOVAL			ITEMS TO BE REMOVED BY OTHERS
						LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	EACH	TYPE A EACH	TYPE B EACH		
7	007	D-001	Board of Supervisors of Loudoun County, Virginia	119-78.41, 60.81' Rt.	Decorative Entrance Sign				1					
7	006	D-002	Town of Leesburg	121-78.96, 43.54' Lt.	Decorative Facility Sign (Airport)	-	-	-	1	-	-	-	-	-

PROJECT MANAGER: Anne Geiger, (703) 771-2742 (Town of Leesburg)
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 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sahab Qadiri, P.E., (703) 368-7373

SURVEY CONTROL DATA SHEET



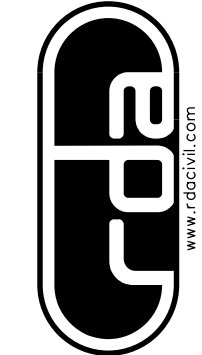
TRAV	NORTHING	EASTING	ELEV.	DESC.	BEARING	DIST.	ALIGNMENT	SYCOLIN RD. CONSTR. B.L.	
								STATION	OFFSET
1	7,074,893.967	11,751,998.726	395.69	IRON ROD W/CAP	N 06°51'45.7389" W	465.01'	SYCOLIN ROAD	98+56.83	40.16' RT
2	7,075,355.649	11,751,943.161	398.25	IRON ROD W/CAP	N 07°49'56.5668" W	370.45'	SYCOLIN ROAD	103+21.78	48.35' RT
3	7,075,722.640	11,751,892.678	396.06	IRON ROD W/CAP	N 07°40'35.2707" W	448.80'	SYCOLIN ROAD	106+92.22	48.60' RT
4	7,076,167.423	11,751,832.727	393.26	IRON ROD W/CAP	N 09°49'33.3963" W	499.12'	SYCOLIN ROAD	111+41.02	50.13' RT
5	7,076,659.220	11,751,747.550	387.52	IRON ROD W/CAP	N 15°19'20.9508" W	433.94'	SYCOLIN ROAD	116+39.85	33.10' RT
6	7,077,077.736	11,751,632.880	375.23	IRON ROD W/CAP	N 08°01'44.3551" W	356.25'	SYCOLIN ROAD	120+69.23	25.35' LT
7	7,077,430.490	11,751,583.122	364.80	IRON ROD W/CAP	N 17°52'13.9215" E	426.78'	SYCOLIN ROAD	124+19.57	58.58' LT
8	7,077,836.678	11,751,714.086	365.10	IRON ROD W/CAP	N 14°05'15.0157" E	405.28'	SYCOLIN ROAD	128+33.33	43.49' RT
9	7,078,229.773	11,751,812.734	381.79	IRON ROD W/CAP	N 10°59'00.5409" E	476.86'	SYCOLIN ROAD	132+43.96	63.48' RT
10	7,078,697.902	11,751,903.589	383.56	IRON ROD W/CAP	N 03°40'32.8064" E	310.55'	SYCOLIN ROAD	137+15.10	53.71' RT
11	7,079,007.810	11,751,923.498	387.50	IRON ROD W/CAP	N 04°28'29.9869" W	455.34'	SYCOLIN ROAD	140+19.71	49.22' RT
12	7,079,461.766	11,751,887.970	396.60	IRON ROD W/CAP	N 10°42'00.4605" W	379.42'	SYCOLIN ROAD	144+67.46	44.37' RT
13	7,079,834.590	11,751,817.524	383.78	IRON ROD W/CAP			SYCOLIN ROAD	148+44.21	49.96' RT

100% PLANS

ASSOCIATED PLAN: _____
 C.I.P. NUMBER: TLCI-2016-0002
 VDOT PROJ. NO. U000-253-312
 TOWN NUMBER: TBD

PROJECT NAME: SYCOLIN ROAD WIDENING PHASE IV FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.
 SURVEY CONTROL DATA SHEET
 Town of Leesburg
 Loudoun County, Virginia
 SUBMISSION DATE: 02/21/2018

ENGINEER: Rinker Design Associates, P.C.
 Engineering - Surveying - Land Planning - Transportation - Environmental Services
 6000 Decoye Blvd., Suite 200, Manassas, Virginia 20108 on the web @ www.rinker.com
 Telephone: (703) 368-7373 Fax: (703) 375-5443
 To Make Your Vision Reality
 PROJECT MANAGER: MARK A. GUNN, P.E.



PROJECT MANAGER: Anne Gelaer, (703) 771-2742 (Town of Leesburg)
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 DESIGNED BY: Sahab Qadiri, P.E., (703) 368-7373

SURVEY CONTROL DETAILS

Rinker Design Associates, P.C. Horizontal Control Card

SYCOLIN ROAD WIDENING PHASE IV

Control Station I. D.: 1

LOUDOUN COUNTY

Established By: RINKER DESIGN ASSOCIATES, P.C.

Vertical Datum Based On: NAVD 1988

Horizontal Datum Based On: NAD 1983

Survey By: T. DREELIN

Field Operator: M. HUGHES

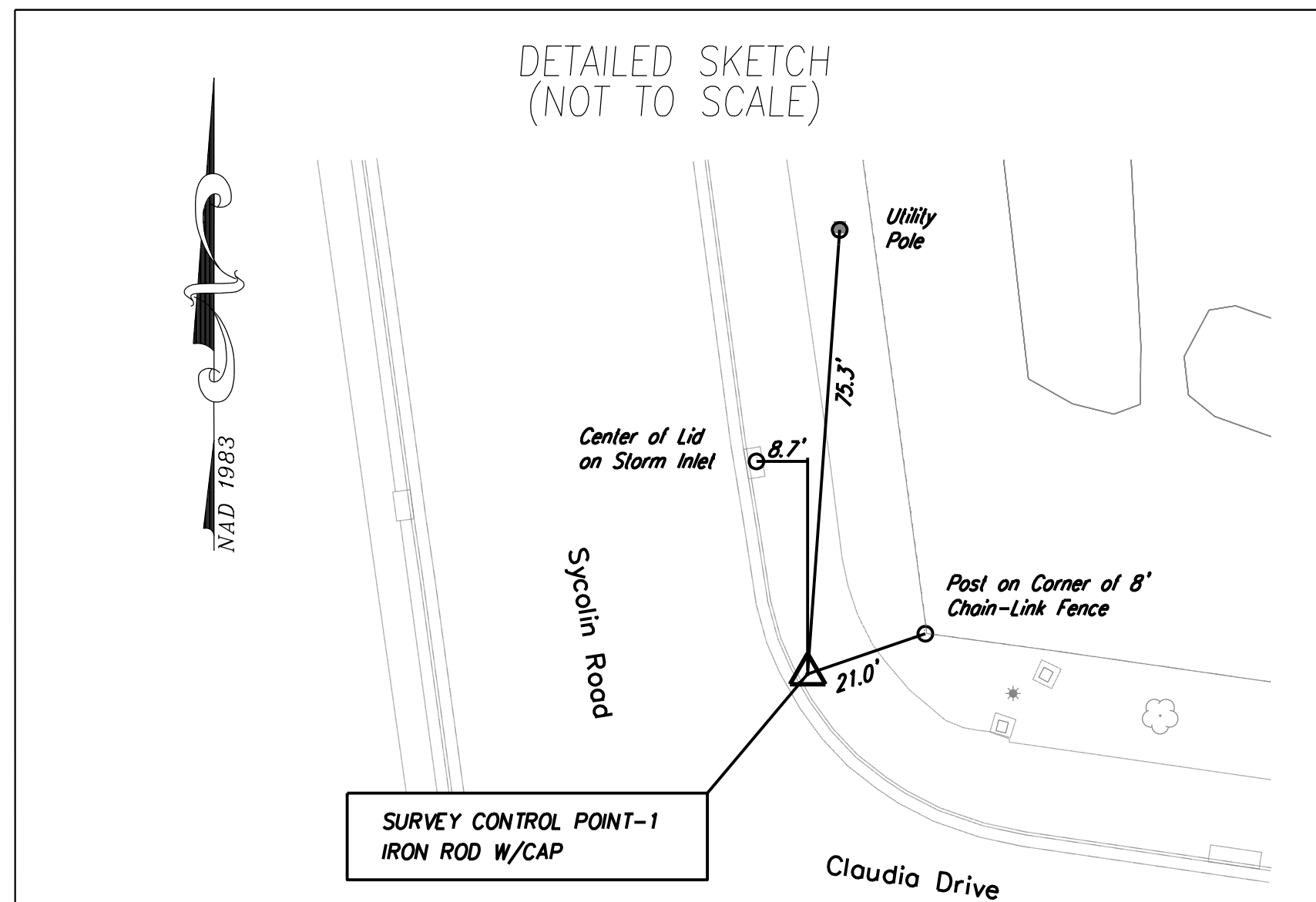
Control Data—Project Coordinates

East (X): 11,751,998.726

North (Y): 7,074,893.967

East (Z): 395.69

**** See Below for detailed sketch location**



Rinker Design Associates, P.C.
 Engineering * Surveying * Land Planning * Transportation * Environmental Services
 9385 Discovery Blvd., Suite 200, Manassas, Virginia 20109 on the web @ www.rdaenv.com
 Telephone: (703) 368-7373 Fax: (703) 257-5443
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Rinker Design Associates, P.C. Horizontal Control Card

SYCOLIN ROAD WIDENING PHASE IV

Control Station I. D.: 2

LOUDOUN COUNTY

Established By: RINKER DESIGN ASSOCIATES, P.C.

Vertical Datum Based On: NAVD 1988

Horizontal Datum Based On: NAD 1983

Survey By: T. DREELIN

Field Operator: M. HUGHES

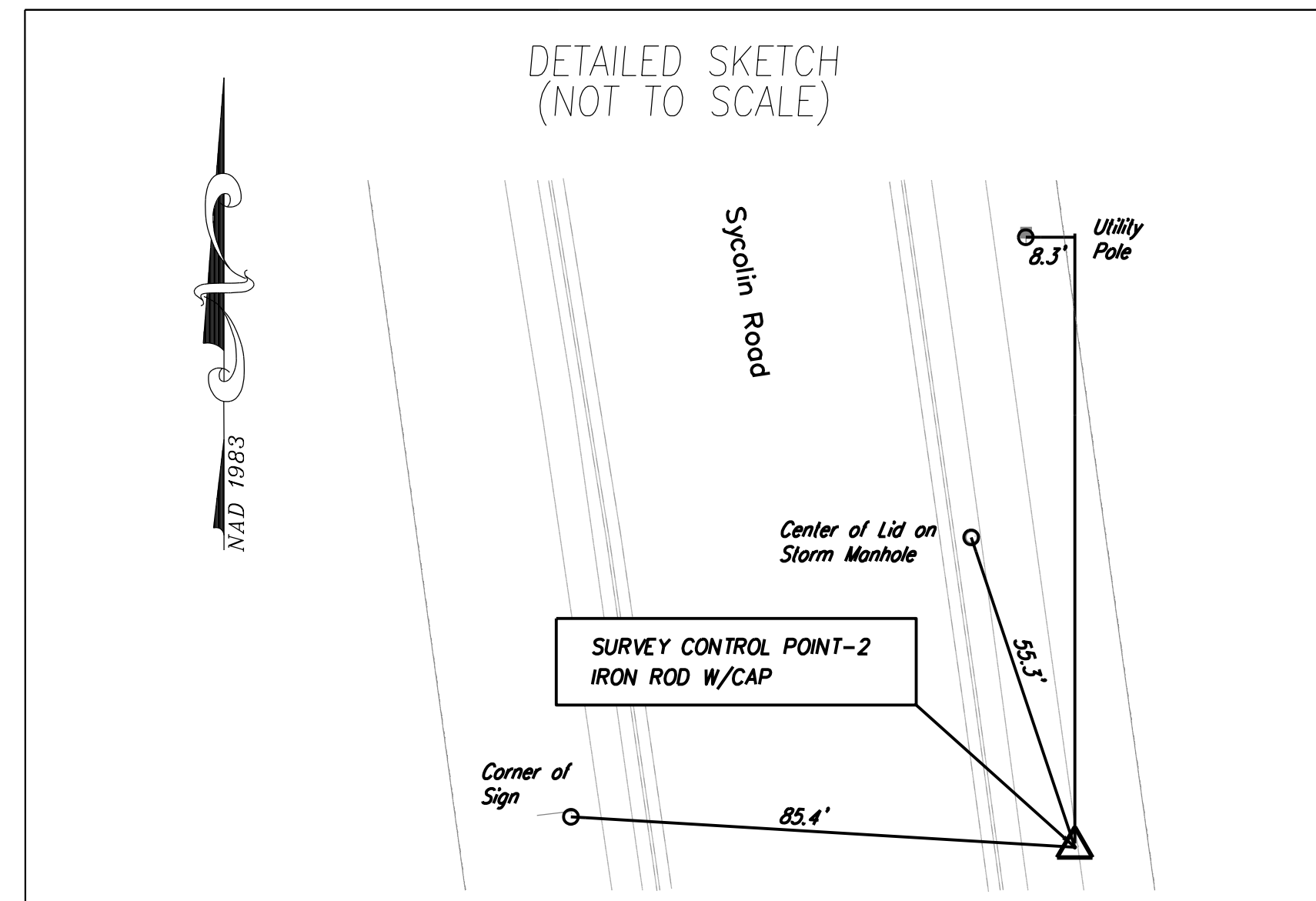
Control Data—Project Coordinates

East (X): 11,751,943.161

North (Y): 7,075,355.649

East (Z): 398.25

**** See Below for detailed sketch location**



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Rinker Design Associates, P.C. Horizontal Control Card

SYCOLIN ROAD WIDENING PHASE IV

Control Station I. D.: 3

LOUDOUN COUNTY

Established By: RINKER DESIGN ASSOCIATES, P.C.

Vertical Datum Based On: NAVD 1988

Horizontal Datum Based On: NAD 1983

Survey By: T. DREELIN

Field Operator: M. HUGHES

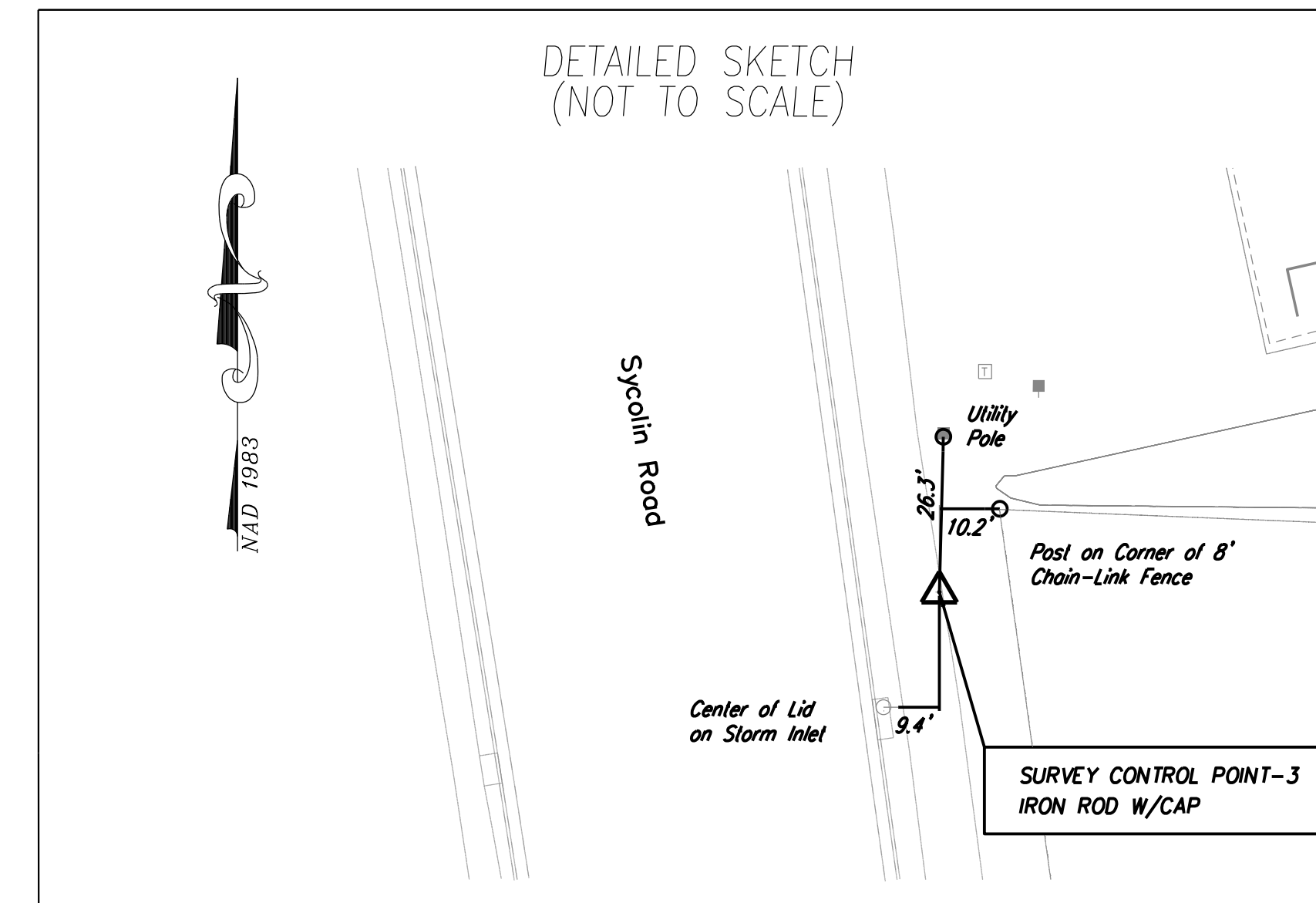
Control Data—Project Coordinates

East (X): 11,751,892.678

North (Y): 7,075,722.640

East (Z): 396.06

**** See Below for detailed sketch location**



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ASSOCIATED PLAN

C.I.P. NUMBER: TLCI-2016-0002
 VDOT PROJ. NO. U000-253-312

TOWN NUMBER: TBD

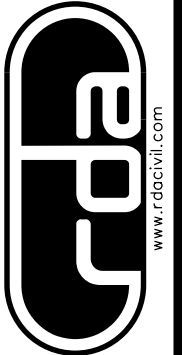
Sheet
 1F(1) of 20

PROJECT NAME: **SYCOLIN ROAD WIDENING PHASE IV**
FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.
 SURVEY CONTROL DETAILS

Town of Leesburg
 Loudoun County, Virginia
 SUBMISSION DATE: 02/21/2018

ENGINEER:
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 "We Welcome the Opportunity to Make Your Vision Reality"

PROJECT MANAGER: **MARK A. GUNN, P.E.**



SURVEY CONTROL DETAILS

Rinker Design Associates, P.C. Horizontal Control Card

SYCOLIN ROAD WIDENING PHASE IV

Control Station I. D.: 4

LOUDOUN COUNTY

Established By: RINKER DESIGN ASSOCIATES, P.C.

Vertical Datum Based On: NAVD 1988

Horizontal Datum Based On: NAD 1983

Survey By: T. DREELIN

Field Operator: M. HUGHES

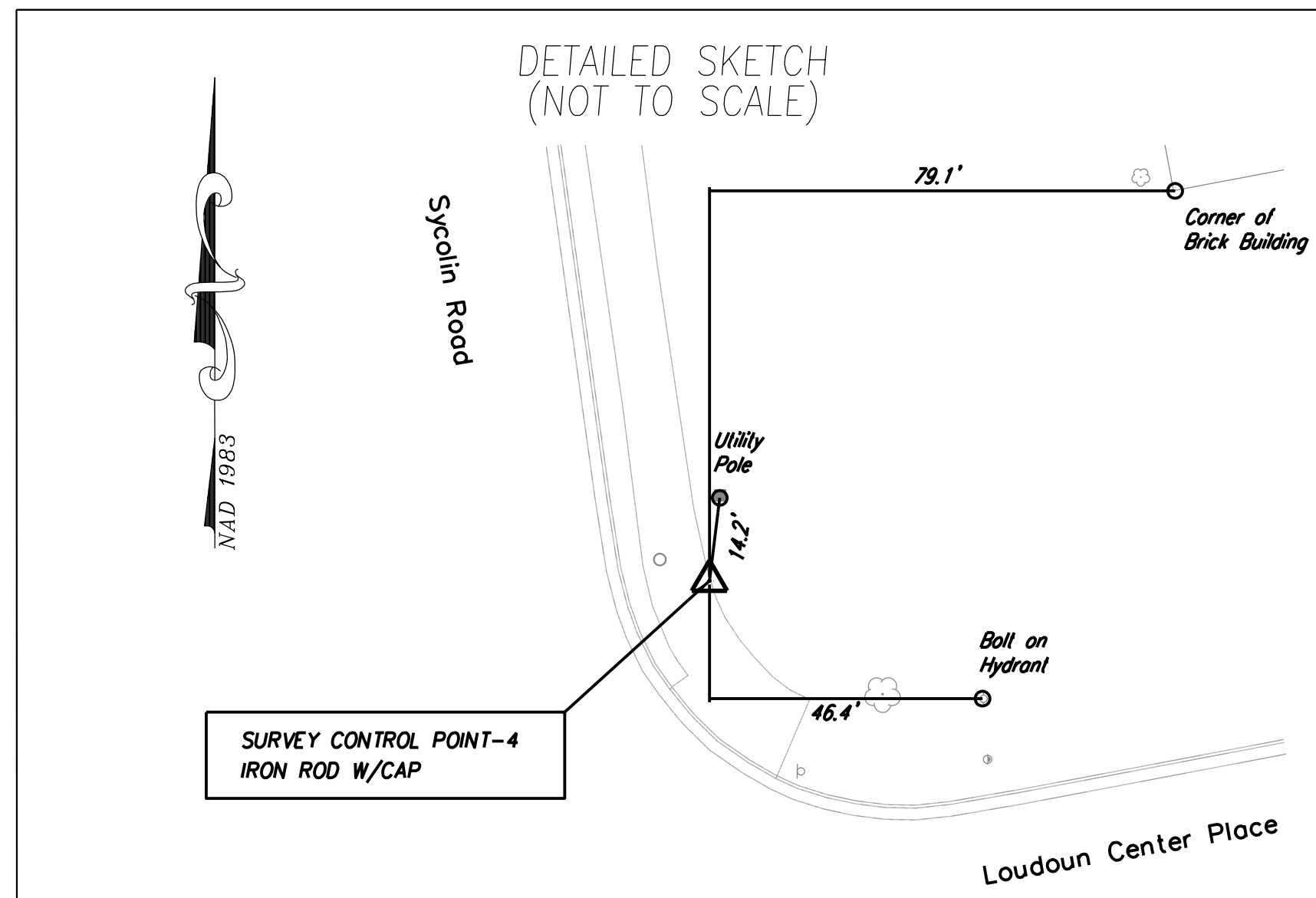
Control Data—Project Coordinates

East (X): 11,751,832.727

North (Y): 7,076,167.423

East (Z): 393.26

** See Below for detailed sketch location



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Rinker Design Associates, P.C. Horizontal Control Card

SYCOLIN ROAD WIDENING PHASE IV

Control Station I. D.: 6

LOUDOUN COUNTY

Established By: RINKER DESIGN ASSOCIATES, P.C.

Vertical Datum Based On: NAVD 1988

Horizontal Datum Based On: NAD 1983

Survey By: T. DREELIN

Field Operator: M. HUGHES

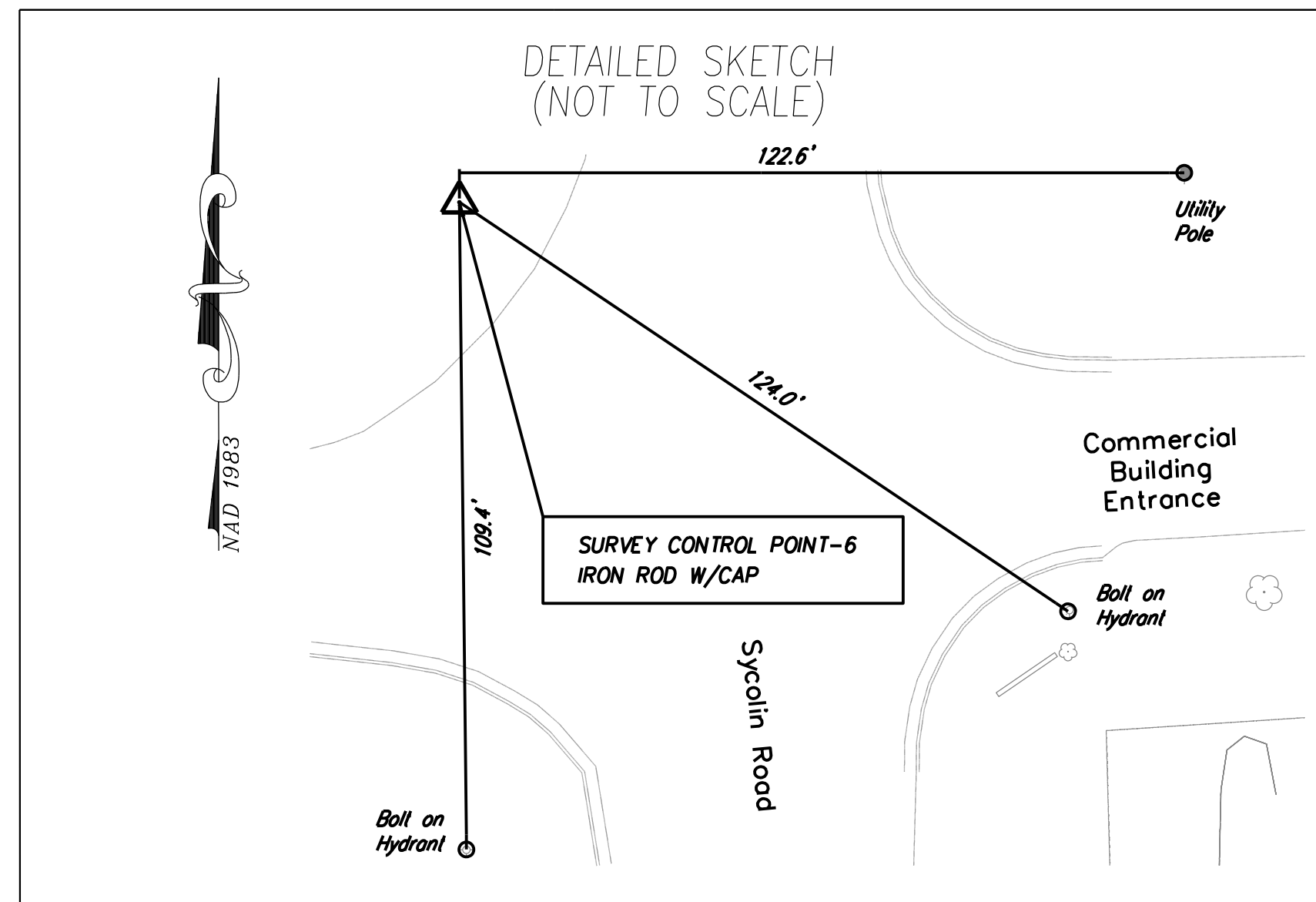
Control Data—Project Coordinates

East (X): 11,751,632.880

North (Y): 7,077,077.736

East (Z): 375.23

** See Below for detailed sketch location



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Rinker Design Associates, P.C. Horizontal Control Card

SYCOLIN ROAD WIDENING PHASE IV

Control Station I. D.: 12

LOUDOUN COUNTY

Established By: RINKER DESIGN ASSOCIATES, P.C.

Vertical Datum Based On: NAVD 1988

Horizontal Datum Based On: NAD 1983

Survey By: T. DREELIN

Field Operator: M. HUGHES

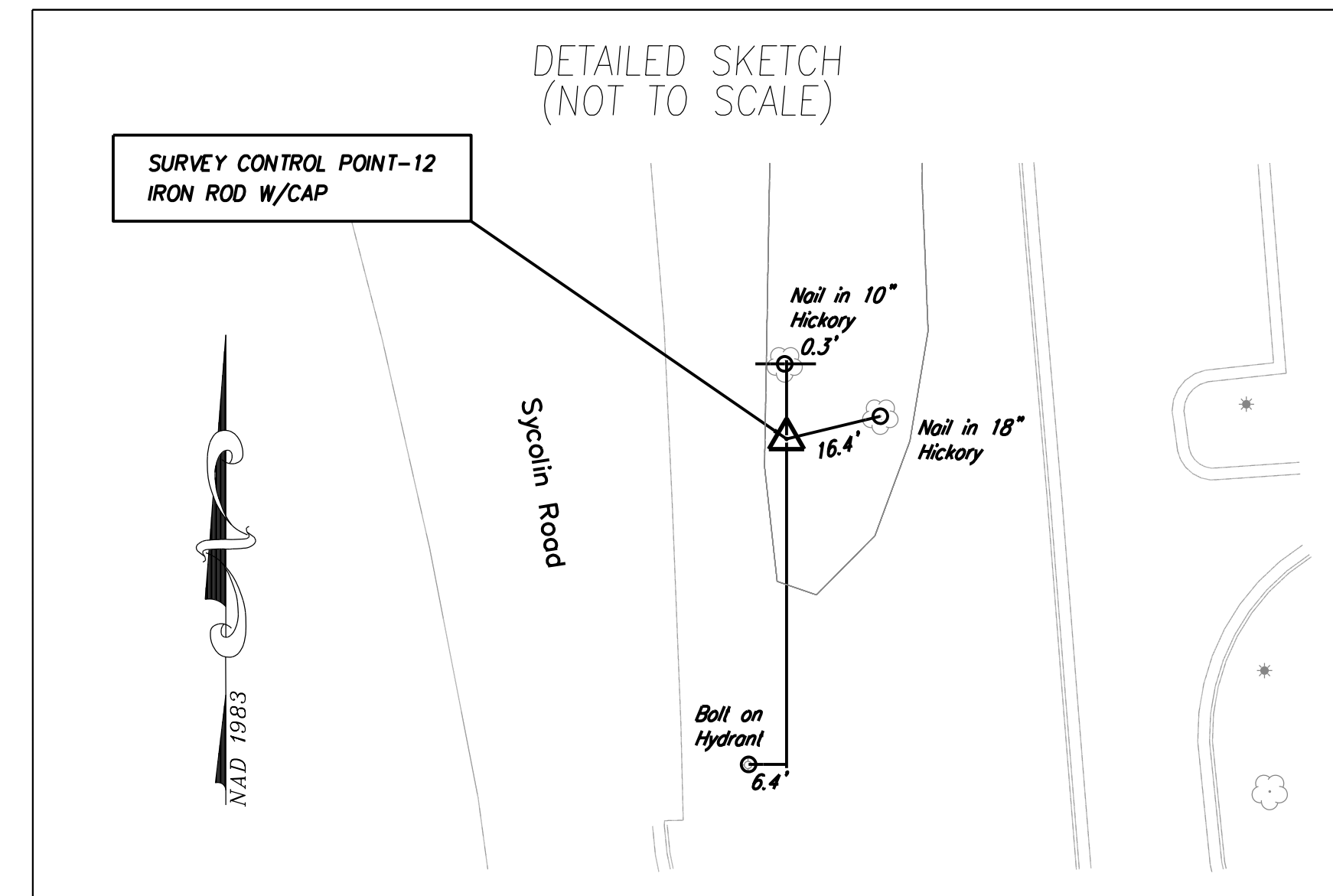
Control Data—Project Coordinates

East (X): 11,751,887.970

North (Y): 7,079,461.766

East (Z): 396.60

** See Below for detailed sketch location



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 "We Welcome the Opportunity to Make Your Vision Reality"

PROJECT MANAGER *Anne Geisler, (703) 771-2742 (Town of Leesburg)*
 SURVEYED BY *Sidney Thomas, L.S., (703) 368-7373 (2015)*
 SUBSURFACE UTILITY BY *Accumark, (800) 542-2990 (2015)*
 DESIGN SUPERVISED BY *Mark A. Gunn, P.E., (703) 368-7373*
 DESIGNED BY *Sahab Dadir, P.E., (703) 368-7373*

SURVEY CONTROL DETAILS

Rinker Design Associates, P.C. Horizontal Control Card

SYCOLIN ROAD WIDENING PHASE IV
 Control Station I. D.: 13
 LOUDOUN COUNTY

Established By: *RINKER DESIGN ASSOCIATES, P.C.* Control Data—Project Coordinates
 East (X): 11,751,817.524
 North (Y): 7,079,834.590
 East (Z): 383.78

Vertical Datum Based On: *NAVD 1988*
 Horizontal Datum Based On: *NAD 1983*

Survey By: *T. DREELIN*
 Field Operator: *M. HUGHES*

** See Below for detailed sketch location

DETAILED SKETCH
(NOT TO SCALE)

Rinker Design Associates, P.C.
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 Telephone: (703) 368-7373, Fax: (703) 251-5443
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ASSOCIATED PLAN: _____
 C.I.P. NUMBER: **TLCI-2016-0002**
 VDOT PROJ. NO. **U000-253-312**
 TOWN NUMBER: TBD

PROJECT NAME: **SYCOLIN ROAD WIDENING PHASE IV FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.**
 SURVEY CONTROL DETAILS
 Loudoun County, Virginia
 Town of Leesburg
 SUBMISSION DATE: 02/21/2018

ENGINEER:
Rinker Design Associates, P.C.
 Engineering • Surveying • Land Planning • Transportation • Environmental Services
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 Telephone: (703) 368-7373, Fax: (703) 251-5443
 "We Welcome the Opportunity to Make Your Vision Reality"

PROJECT MANAGER: **MARK A. GUNN, P.E.**

PROJECT MANAGER *Anne Geiger, (703) 771-2742 (Town of Leesburg)*
 SURVEYED BY *Sidney Thomas, L.S., (703) 368-7373 (2015)*
 SUBSURFACE UTILITY BY *Accumark, (800) 542-2990 (2015)*
 DESIGN SUPERVISED BY *Mark A. Gunn, P.E., (703) 368-7373*
 DESIGNED BY *Sahab Qadiri, P.E., (703) 368-7373*

CONSTRUCTION ALIGNMENT DATA

SYCOLIN ROAD (RTE. 643)

Chain MAINLINE contains:
MAINLINE001 CUR ML01 CUR ML02 MAINLINE004

Beginning chain MAINLINE description

Point MAINLINE001 N 7,074,733.1105 E 11,751,980.4166 Sta 97+00.00

Course from MAINLINE001 to PC ML01 N 7°52' 16.5200" W Dist 2,250.6484

Curve Data C1

Curve ML01
 P.I. Station = 125+74.25 N 7,077,580.2787 E 11,751,586.7951
 Delta = 21°45' 22.0501" (RT)
 Degree = 1°45' 56.3885"
 Tangent = 623.6001
 Length = 1,232.1785
 Radius = 3,245.0000
 External = 59.3762
 Long Chord = 1,224.7893
 Mid. Ord. = 58.3093
 P.C. Station = 119+50.65 N 7,076,962.5540 E 11,751,672.1957
 P.T. Station = 131+82.83 N 7,078,185.6571 E 11,751,736.4415
 C.C. Station = 125+66.74 N 7,077,406.9490 E 11,754,886.6222
 Back = N 7°52' 16.5200" W
 Ahead = N 13°53' 05.5301" E
 Chord Bear = N 3°00' 24.5050" E

Course from PT ML01 to PC ML02 N 13°53' 05.5301" E Dist 262.9250

Curve Data C2

Curve ML02
 P.I. Station = 140+43.10 N 7,079,020.7911 E 11,751,942.8822
 Delta = 26°07' 15.0000" (LT)
 Degree = 2°13' 30.2837"
 Tangent = 597.3463
 Length = 1,173.9285
 Radius = 2,575.0000
 External = 68.3781
 Long Chord = 1,163.7886
 Mid. Ord. = 66.6093
 P.C. Station = 134+45.75 N 7,078,440.8994 E 11,751,799.5360
 P.T. Station = 146+19.68 N 7,079,604.5675 E 11,751,816.2817
 C.C. Station = 140+32.71 N 7,079,058.8265 E 11,749,299.7778
 Back = N 13°53' 05.5301" W
 Ahead = N 12°14' 09.4699" E
 Chord Bear = N 0°49' 28.0301" E

Course from PT ML02 to MAINLINE004 N 12°14' 09.4699" W Dist 705.3197

Point MAINLINE004 N 7,080,293.8645 E 11,751,666.7975 Sta 153+25.00

Ending chain MAINLINE description

CLAUDIA DRIVE

Chain CLAUDIA contains:
CLAUDIA001 CLAUDIA002

Beginning chain CLAUDIA description

Point CLAUDIA001 N 7,074,863.7318 E 11,751,962.3582 Sta 10+00.00

Course from CLAUDIA001 to CLAUDIA002 S 81°32' 06.6099" E Dist 250.0000

Point CLAUDIA002 N 7,074,826.9312 E 11,752,209.6348 Sta 12+50.00

Ending chain CLAUDIA description

LOUDOUN CENTER PLACE

Chain LOUDOUNCTR contains:
LOUDOUNCTR001 LOUDOUNCTR002

Beginning chain LOUDOUNCTR description

Point LOUDOUNCTR001 N 7,076,082.4961 E 11,751,793.8638 Sta 10+00.00

Course from LOUDOUNCTR001 to LOUDOUNCTR002 N 79° 21' 54.3168" E Dist 250.0000

Point LOUDOUNCTR002 N 7,076,128.6336 E 11,752,039.5696 Sta 12+50.00

Ending chain LOUDOUNCTR description

ENTRANCE AT STATION 120+10 Lt.

Chain ENT12010 contains:
ENT12010001 CUR ENT12010CUR1 CUR ENT12010CUR2 ENT12010004

Beginning chain ENT12010 description

Point ENT12010001 N 7,077,021.4174 E 11,751,664.6057 Sta 10+00.00

Course from ENT12010001 to PC ENT12010CUR1 S 83° 10' 36.0974" W Dist 33.2561

Curve Data C3

Curve ENT12010CUR1
 P.I. Station = 10+50.41N 7,077,015.4283E 11,751,614.5527
 Delta = 13° 02' 52.9026" (RT)
 Degree = 38° 11' 49.8708"
 Tangent = 17.1540
 Length = 34.1597
 Radius = 150.0000
 External = 0.9777
 Long Chord = 34.0859
 Mid. Ord. = 0.9714
 P.C. Station = 10+33.26 N 7,077,017.4663 E 11,751,631.5852
 P.T. Station = 10+67.42 N 7,077,017.2883 E 11,751,597.4998
 C.C. Station = 10+50.41 N 7,077,166.4039 E 11,751,613.7640
 Back = S 83° 10' 36.0974" W
 Ahead = N 83° 46' 31.0001" W
 Chord Bear = S 89° 42' 02.5486" W

Course from PT ENT12010CUR1 to PC ENT12010CUR2 N83°46'31.0001"W Dist 127.7753

Curve Data C4

Curve ENT12010CUR2
 P.I. Station = 12+09.35N 7,077,032.6779E 11,751,456.4033
 Delta = 25° 31' 37.9410" (LT)
 Degree = 91° 40' 23.6900"
 Tangent = 14.1579
 Length = 27.8459
 Radius = 62.5000
 External = 1.5835
 Long Chord = 27.6161
 Mid. Ord. = 1.5444
 P.C. Station = 11+95.19 N 7,077,031.1427 E 11,751,470.4778
 P.T. Station = 12+23.04 N 7,077,027.9979 E 11,751,443.0413
 C.C. Station = 12+12.21 N 7,076,969.0112 E 11,751,463.7010
 Back = N 83° 46' 31.0001" W
 Ahead = S 70° 41' 51.0590" W
 Chord Bear = S 83° 27' 40.0295" W

Course from PT ENT12010CUR2 to ENT12010004 S 70° 41' 51.0590" W Dist 76.9631

Point ENT12010004 N 7,077,002.5573E 11,751,370.4045 Sta 13+00.00

Ending chain ENT12010 description

ENTRANCE AT STATION 11+05 Lt.

Chain ENT_AIR1105 contains:
ENTAIR110501 ENTAIR110502

Beginning chain ENT_AIR1105 description

Point ENTAIR110501 N 7,077,021.3928 E 11,751,559.8684 Sta 10+00.00

Course from ENTAIR110501 to ENTAIR110502 S 6°13' 29.0008" W Dist 100.0000

Point ENTAIR110502 N 7,076,921.9824 E 11,751,549.0256 Sta 11+00.00

Ending chain ENT_AIR1105 description

ENTRANCE AT STATION 120+15 Rt.

Chain ENT12015 contains:
ENT12015001 ENT12015002

Beginning chain ENT12015 description

Point ENT12015001 N 7,077,026.7452 E 11,751,663.9727 Sta 10+00.00

Course from ENT12015001 to ENT12015002 N86° 13' 15.5300"E Dist 175.0000

Point ENT12015002 N 7,077,038.2792 E 11,751,838.5922 Sta 11+75.00

Ending chain ENT12015 description

MILLER DRIVE

Chain MILLER contains:
MILLER001 MILLER002

Beginning chain MILLER description

Point MILLER001 N 7,077,892.2203 E 11,751,678.1122 Sta 10+00.00

Course from MILLER001 to MILLER002 N 78°05' 39.1101" W Dist 225.0000

Point MILLER002 N 7,077,938.6385 E 11,751,457.9524 Sta 12+25.00

Ending chain MILLER description

ENTRANCE AT STATION 128+84 Lt.

Chain ENT12884 contains:
ENT12884001 ENT12884002

Beginning chain ENT12884 description

Point ENT12884001 N 7,077,892.2203 E 11,751,678.1122 Sta 10+00.00

Course from ENT12884001 to ENT12884002 S 81° 23' 58.1257" E Dist 150.0000

Point ENT12884002 N 7,077,869.7886 E 11,751,826.4254 Sta 11+50.00

Ending chain ENT12884 description

ENTRANCE AT STATION 136+66 Lt.

Chain ENT13666 contains:
ENT13666001 ENT13666002

Beginning chain ENT13666 description

Point ENT13666001 N 7,078,657.5807 E 11,751,843.3239 Sta 10+00.00

Course from ENT13666001 to ENT13666002 N 83°19' 23.3416" W Dist 125.0000

Point ENT13666002 N 7,078,672.1144 E 11,751,719.1717 Sta 11+25.00

Ending chain ENT13666 description

TRAVISTOCK DRIVE

Chain TAVISTOCK contains:
TAVISTOCK001 TAVISTOCK002

Beginning chain TAVISTOCK description

Point TAVISTOCK001 N 7,078,660.2264 E 11,751,843.7399 Sta 10+00.00

Course from TAVISTOCK001 to TAVISTOCK002 S 83°41' 51.4700" E Dist 250.0000

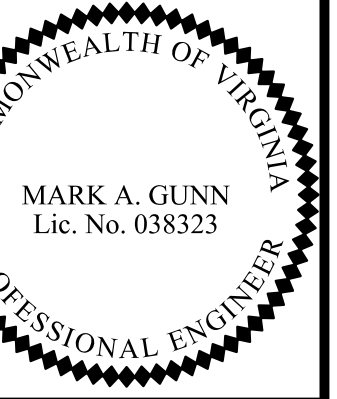
Point TAVISTOCK002 N 7,078,632.7825 E 11,752,092.2290 Sta 12+50.00

Ending chain TAVISTOCK description



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PROJECT NAME: **SYCOLIN ROAD WIDENING PHASE IV**
FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.
CONSTRUCTION ALIGNMENT DATA
 Loudoun County, Virginia
 PROJECT MANAGER: MARK A. GUNN, P.E.



Mark A Gunn
 2018.02.22 18:30:16 -05'00'

ASSOCIATED PLAN NUMBER: TLCL-2016-0002
 VDOT PROJ. NO. U000-253-312
 TOWN NUMBER: TBD

PROJECT MANAGER *Anne Gelaer, (703) 771-2742 (Town of Leesburg)*
 SURVEYED BY *Sidney Thomas, L.S., (703) 368-7373 (2015)*
 SUBSURFACE UTILITY BY *Accumark, (800) 542-2990 (2015)*
 DESIGN SUPERVISED BY *Mark A. Gunn, P.E., (703) 368-7373*
 DESIGNED BY *Sahab Dadir, P.E., (703) 368-7373*

CONSTRUCTION ALIGNMENT DATA

ENTRANCE AT STATION 143+44 Rt.

Chain ENT14344 contains:
 ENT14344001 ENT14344002

Beginning chain ENT14344 description

```

=====
Point ENT14344001      N 7,079,332.8026      E 11,751,860.1610      Sta 10+00.00
Course from ENT14344001 to ENT14344002      N 85° 41' 32.5076" E Dist 200.0000
Point ENT14344002      N 7,079,347.8249      E 11,752,059.5960      Sta 12+00.00
=====
Ending chain ENT14344 description
    
```

TOLBERT LANE (EAST)

Chain TOLBERT_EAST contains:
 TOLBERTEAST001 CUR TOLBERTCUR01 TOLBERTEAST003

Beginning chain TOLBERT_EAST description

Feature: v
 Description: TOLBERTEAST001 CUR TOLBERTCUR01 TOLBERTEAST002

```

=====
Point TOLBERTEAST001 N 7,080,278.0851      E 11,751,670.2195      Sta 10+00.00
Course from TOLBERTEAST001 to PC TOLBERTCUR01 N 77°45' 50.5300" E Dist 51.3744
    
```

Curve Data C6

```

*-----*
Curve TOLBERTCUR01
P.I. Station 12+63.51      N 7,080,333.9331      E 11,751,927.7438
Delta = 44° 37' 10.3824" (LT)
Degree = 11° 04' 57.2526"
Tangent = 212.1361
Length = 402.6101
Radius = 516.9900
External = 41.8305
Long Chord = 392.5133
Mid. Ord. = 38.6993
P.C. Station 10+51.37      N 7,080,288.9733      E 11,751,720.4268
P.T. Station 14+53.98      N 7,080,511.5535      E 11,752,043.7297
C.C. = N 7,080,794.2189      E 11,751,610.8569
Back = N 77°45' 50.5300" E
Ahead = N 33°08' 40.1475" E
Chord Bear = N 55°27' 15.3387" E
    
```

Course from PT TOLBERTCUR01 to TOLBERTEAST003 N 33°08' 40.1475" E Dist 46.0155

```

=====
Point TOLBERTEAST003 N 7,080,550.0820      E 11,752,068.8888      Sta 15+00.00
    
```

Ending chain TOLBERT_EAST description

PROJECT NAME: SYCOLIN ROAD WIDENING PHASE IV
 FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.

CONSTRUCTION ALIGNMENT DATA

Loudoun County, Virginia

Town of Leesburg

SUBMISSION DATE: 02/21/2018

ENGINEER:
Rinker Design Associates, P.C.
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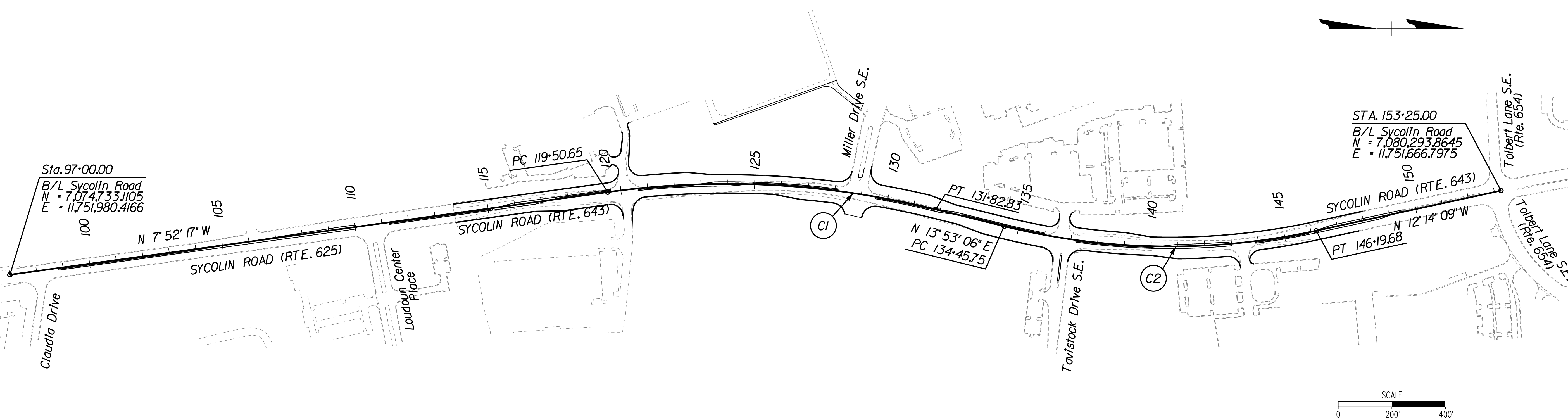


Mark A Gunn
 2018.02.22 18:30:31 -05'00'

ASSOCIATED PLAN: _____
 C.I.P. NUMBER: **TLCI-2016-0002**
 VDOT PROJ. NO. **U000-253-312**
 TOWN NUMBER: TBD

PROJECT MANAGER: Anne Gelaer, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: AccuMark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sahab Dadr, P.E., (703) 368-7373

CONSTRUCTION ALIGNMENT DATA



CURVE DATA TABLE

Curve No.	Location	Delta	Degree	Radius	Tangent	Length	Design Speed	Bearings		Coordinates	
								Back Tangent	Chord	Forward Tangent	Northing
<i>Sycolin Road</i>											
C1	PC = 119+50.65							N7°52'16.5200"W	7,076,962.5540	11,751,672.1957	
	PI = 125+74.25	2° 45' 22.05" (RT)	1° 45' 56"	3,245.00'	623.60'	1,232.18'	40 MPH	N3°0'24.5050"E	7,077,580.2787	11,751,586.7951	
	PT = 131+82.83							N13°53'5.5301"E	7,078,185.6571	11,751,736.4415	
C2	PC = 134+45.75							N13°53'5.5301"E	7,078,440.8994	11,751,799.5360	
	PI = 140+43.10	26° 07' 15.00" (LT)	2° 13' 30"	2,575.00'	597.35'	1,173.93'	40 MPH	N0°49'28.0301"E	7,079,020.7911	11,751,942.8822	
	PT = 146+19.68							N12°14'9.4699"W	7,079,604.5675	11,751,816.2817	

PROJECT NAME: **SYCOLIN ROAD WIDENING PHASE IV FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.**

CONSTRUCTION ALIGNMENT DATA

Town of Leesburg
Loudoun County, Virginia

SUBMISSION DATE: 02/21/2018

ENGINEER:
Rinker Design Associates, P.C.
Engineering - Surveying - Land Planning - Transportation - Environmental Services
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PROJECT MANAGER: MARK A. GUNN, P.E.

Mark A. Gunn
2018.02.22 18:30:54 -05'00'

ASSOCIATED PLAN

C.I.P. NUMBER: **TLCI-2016-0002**

VDOT PROJ. NO. **U000-253-312**

TOWN NUMBER: TBD

PROJECT MANAGER: Anne Geisler, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: AccuMark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sohaib Qadir, P.E., (703) 368-7373

UNDERGROUND UTILITIES TEST HOLE INFORMATION

PLAN SHEET	TEST HOLE	DISTANCE (FEET)	(1) STATION & ROADWAY	OWNER	TYPE OF FACILITY	(2) ELEV. (FEET)	(3) CONFLICT YES/NO	(4) REMARKS	UTILITY (5) ADJUSTMENT REQUIRED
9	1 & 2	42.09 Lt.	132+75 Rte.643	5	(2) 6" Electric Conduits	377.64	Y	Conflict with drainage	Y
9	3	28.16 Rt.	132+77 Rte.643	5	Concrete	375.67	Y	Facility In Conflict w/ drainage @ TH#2	Y
9	4	60.84 Rt.	132+78 Rte.643	5	(2) 6" PVC	379.90	Y	Cut Area	Y
8	5	30.03 Rt.	125+75 Rte.643	1	16" D.J. Water	350.30	N	Water 6' Separation with Drainage	N
8	6	29.63 Rt.	128+08 Rte.643	1	16" D.J. Water	356.51	N	4' Below Subgrade	N
7	7	36.12 Rt.	120+02 Rte.643	1	16" D.J. Water	373.96	Y	Drainage Conflict	Y
9	8	7.14 Lt.	136+80 Rte.643	1	None	N/A	N/A	Excavated to 12' and did not find line	N
9	9	43.35 Rt.	136+92 Rte.643	1	12" Water	370.46	N	No Conflict Found	N
7	10	71.59 Rt.	120+07 Rte.643	1	8" D.J. Water	971.58	Y	Drainage Conflict	Y
7	11	64.97 Lt.	119+65 Rte.643	1	8" D.J. Water	372.24	N	No Conflict Found	N
7	11A	64.97 Lt.	119+65 Rte.643	7	(2) 1" Plastic	374.45	N	No Conflict Found	N
7	12	41.93 Rt.	122+35 Rte.643	1	16" D.J. Water	361.37	Y	Less than 2' Separation to Drainage	Y
10	13	69.30 Lt.	138+52 Rte.643	7	2" Plastic Conduit	380.15	N	No Conflict Found	N
9	14	71.53 Rt.	134+15 Rte.643	7	1.25" Direct Buried CATV	381.61	Y	Conflict with Proposed Cut	Y
9	15	45.13 Lt.	136+77 Rte.643	1	8" C.J. Water	373.56	N	3.4 Feet Clearance to Drainage	N
10	16	32.11 Rt.	140+29 Rte.643	1	16" D.J. Water	380.91	Y	Less than 1' Clearance to Drainage	Y
11	17	7.19 Rt.	147+31 Rte.643	1	16" D.J. Water	379.45	N	Less than 1' Clearance to Drainage	N
11	17	7.19 Rt.	147+31 Rte.643	8	12" Steel Gas	377.80	Y	Parallel run under drainage-maintenance issue	Y
11	18	40.39 Rt.	146+64 Rte.643	1	16" D.J. Water	380.79	N	No Conflict Found	N
7	19	34.22 Lt.	119+04 Rte.643	8	12" Steel Gas	376.02	N	2.9' Separation to Drainage	N
9	20	60.40 Lt.	133+55 Rte.643	N/A	None Found	N/A	N/A	Encountered Rock at 7' deep	N
7	21	56.84 Lt.	123+23 Rte.643	8	12" Wrapped Steel	360.48	Y	Direct Conflict w/ Proposed Culvert	Y
9	22	41.88 Lt.	135+84 Rte.643	8	12" Wrapped Steel	375.39	Y	Direct Conflict with Drainage	Y
9	23	2.12 Rt.	137+24 Rte.643	8	12" Wrapped Steel	378.73	Y	Drainage Conflict	Y
10	24	15.17 Lt.	139+75 Rte.643	8	12" Wrapped Steel	380.66	Y	Drainage Conflict	Y
7	25	65.43 Lt.	119+87 Rte.643	1	12" C.J. Water	368.39	N	No Conflict Found	N
9	26	40+41 Lt.	135+73 Rte.643	6	(1) 4" Plastic Conduit	375.45	Y	Drainage Conflict	Y
9	27	33.69 Lt.	135+92 Rte.643	6	(2) 4" Plastic Conduits	379.88	Y	Drainage Conflict	Y
9	28	4.61 Lt.	136+07 Rte.643	3	2" Plastic Conduit	380.82	Y	Cut Conflict	Y
7	29	24.15 Lt.	122+65 Rte.643	8	2" Plastic Gas	388.51	Y	Conflict with Cut Area	Y
7	30	24.61 Lt.	122+65 Rte.643	8	12" Steel Gas	359.92	N	No Conflict Found	N
8	31	42.08 Rt.	129+64 Rte.643	1	16" D.J. Water	364.25	Y	Drainage Conflict	Y
9	32	91.65 Lt.	136+70 Rte.643	7	Direct Buried CATV	379.28	N	No Conflict Found	N
9	33	86.95 Lt.	136+72 Rte.643	6	(2) 4" PVC Conduits	376.93	N	No Conflict Found	N
9	34	81.54 Lt.	136+77 Rte.643	6	(2) 1.5" Conduits & Direct Buried Cable	378.80	N	No Conflict Found	N
9	35&36	71.20 Lt.	136+75 Rte.643	5	(2) 6" PVC Conduits	378.12	N	No Conflict Found	N
9	37	62.55 Lt.	136+74 Rte.643	6	4" Plastic Conduit	378.33	Y	Drainage Conflict	Y
9	38	52.91 Lt.	136+90 Rte.643	6	(1) 2" Plastic Conduit	379.05	Y	Drainage Conflict	Y
7	39	41.32 Rt.	122+77 Rte.643	1	16" D.J. Water	359.68	N	3' Vertical Separation to Drainage No Line Found to 8' Deep - Depth Should Clear Drainage	N
8	40	33.90 Rt.	124+29 Rte.643	1	None Found	N/A	N	3' Separation to Undercut	N
8	41	28.63 Rt.	128+68 Rte.643	1	24" C.J. Water	358.84	N	3' Separation to Undercut	N
9	42	41.74 Rt.	135+79 Rte.643	6	4" & 1.5" Plastic Conduit	377.95	N	No Conflict Found	N
9	43	41.19 Rt.	135+91 Rte.643	6	(2) 4" Plastic Conduit	378.05	N	No Conflict Found	N
9	44	41.78 Rt.	135+98 Rte.643	N/A	1.5" Steel Conduit	379.64	N	No Conflict Found	N
9	45	41.73 Rt.	136+05 Rte.643	3	(2) 2" Plastic Conduits	379.42	N	No Conflict Found	N
9	46	41.54 Rt.	136+08 Rte.643	4	3" Plastic Conduit	379.52	N	No Conflict Found	N
9	47	37.57 Rt.	136+65 Rte.643	8	12" Steel Gas	379.30	N	No Conflict Found	N
9	48	36.14 Rt.	136+83 Rte.643	1	C.J. Water	370.05	N	No Conflict Found	N
6	50	13.17 Rt.	114+56 Rte.643	1	12" D.J. Water	386.79	N	No Conflict Found	N
6	51	28.03 Lt.	114+58 Rte.643	1	8" D.J. Water	385.29	N	No Conflict Found	N
7	52	11.98 Lt.	119+53 Rte.643	1	12" D.J. Water	375.59	N	No Conflict Found	N
7	53	18.65 Lt.	119+60 Rte.643	8	2" Plastic Gas	377.67	Y	Conflict with Undercut	Y

PLAN SHEET	TEST HOLE	DISTANCE (FEET)	(1) STATION & ROADWAY	OWNER	TYPE OF FACILITY	(2) ELEV. (FEET)	(3) CONFLICT YES/NO	(4) REMARKS	UTILITY (5) ADJUSTMENT REQUIRED
7	54	39.05 Lt.	119+83 Rte.643	N/A	4" Steel Fiber Optic	373.58	N	No Conflict Found	N
8	55	51.73 Rt.	131+26 Rte.643	1	16" D.J. Water	371.50	N	No Conflict Found	N
9	56	43.64 Rt.	133+51 Rte.643	1	16" D.J. Water	374.93	N	No Conflict Found	N
9	57	43.21 Rt.	137+22 Rte.643	1	16" D.J. Water	369.91	N	Utility measurement taken using air lance No Conflict Found	N
9	58	57.18 Lt.	137+28 Rte.643	3,7	2" Plastic Fiber Optic	378.65	Y	Drainage Conflict	Y
10	59	34.57 Rt.	138+43 Rte.643	1	16" D.J. Water	375.24	N	No Conflict Found	N
10	60	31.34 Rt.	139+71 Rte.643	1	16" D.J. Water	378.40	N	No Conflict Found	N
10	61	21.55 Rt.	142+24 Rte.643	1	16" Poly Wrapped Water	385.04	N	No Conflict Found	N
10	62	18.70 Lt.	143+24 Rte.643	8	12" Wrapped Steel Gas	390.85	Y	Conflict with Undercut	Y
10	63	31.47 Rt.	143+83 Rte.643	1	12" Wrapped Steel Water	387.10	N	No Conflict Found	N
11	64	30.33 Rt.	145+08 Rte.643	1	16" Cast Iron Water	384.62	N	No Conflict Found	N
11	65	28.09 Lt.	147+10 Rte.643	1	2" Copper Water	378.67	N	No Conflict Found	N

UTILITY OWNERS

- Town of Leesburg - Water and Sanitary Sewer
Ms. Amy R. Wyks, P.E., Director
1385 Russell Branch Parkway, SE
Leesburg, Virginia 20175
O: (703) 737-7119
F: (703) 737-7185
E: AWyks@LeesburgVA.gov
- Town of Leesburg - Storm Drainage
Mr. O.J. Jackson, Streets Superintendent
1393-A Russell Branch Parkway, SE
Leesburg, Virginia 20175
O: (703) 737-7070
F: (571) 233-7396
E: OJackson@LeesburgVA.gov
- Loudoun County DIT
Ms. Shelly Morris
41975 Loudoun Center Place, SE
Leesburg, VA 20175-8901
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E: Shelly.Morris@Loudoun.gov
- Dominion Virginia Power
Robert Terry
3072 Centreville Road
Herndon, VA 20171
O: (571) 203-5243
E: robert.terry@dom.com
- Northern Virginia Electric Coop.
Ms. Carol Comstock
5399 Wellington Branch Drive
Gainesville, VA 20155
O: (703) 754-6732
E: CComstock@NOVEC.com
- Verizon
Mr. David Russell
901 Prince Edward St
Fredericksburg, VA 22401
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E: david.a.russel@verizon.com
- Comcast
Mr. Mark Sheriff
Construction Department
4391 Dale Blvd
Woodbridge, VA 22193
C: (704) 401-9449
E: Mark.Sheriff@comcast.com
- Washington Gas
Mr. Christian Mappus
6801 Industrial Road
Office 347E
Springfield, VA 22151
O: (703) 750-4270
F: (571) 205-3999
E: CMappus@washgas.com

LEGEND

- W
- T/Tg Duct
- SFM
- G

NOTES:

- ALL TEST HOLES ARE REFERENCED FROM THE PROPOSED BASELINE UNLESS OTHERWISE NOTED.
- ELEVATIONS SHOWN HEREON ARE TO THE TOP OF THE FACILITY UNLESS OTHERWISE NOTED.
- YES OR NO: NO INDICATES NO DIRECT CONFLICT, HOWEVER, CLEARANCE MAY BE LESS THAN ACCEPTABLE TO UTILITY OWNER.
- REMARKS TO INCLUDE CLEARANCE DIMENSION (REGARDLESS OF DISTANCE).
- YES OR NO: INFORMATION TO BE PROVIDED BY RINKER DESIGN ASSOCIATES PROJECT UTILITY COORDINATOR.

ASSOCIATED PLAN: TLCL-2016-0002
 C.I.P. NUMBER: U000-253-312
 VDOT PROJ. NO. U000-253-312

PROJECT NAME: SYCOLIN ROAD WIDENING PHASE IV
 FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.
 UNDERGROUND UTILITIES TEST HOLE INFORMATION

Town of Leesburg
 SUBMISSION DATE: 02/21/2018

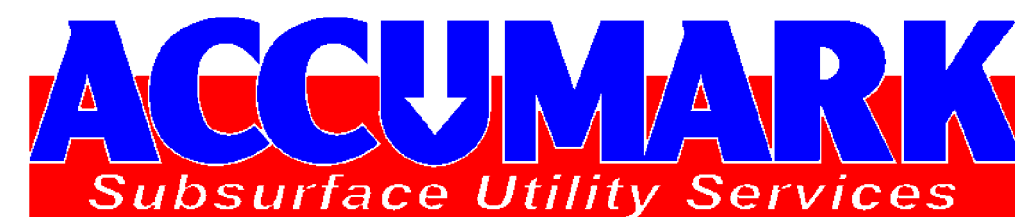
Loudoun County, Virginia

ENGINEER: Rinker Design Associates, P.C.
 Engineering - Surveying - Land Planning - Transportation - Environmental Services
 3000 University Blvd., Suite 200, Leesburg, Virginia 22081
 Telephone: (703) 368-7373 Fax: (703) 368-7373
 Website: www.rinker.com
 To Make Your Vision Reality



PROJECT MANAGER: MARK A. GUNN, P.E.

PROJECT MANAGER: Anne Gelaer, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: Accumark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sahab Qadiri, P.E., (703) 368-7373



Proud - Professional - Precise
TEST HOLE INVENTORY REPORT - QUALITY LEVEL "A"

Sycolin Road Test Holes
 Rinker Design Associates

Date	TH#	Utility Requested	Utility Found	Existing Grade Depth	Material Type	Utility Elevation	Pavement Thickness	Utility Owner
09/28/15	1 & 2	Electric	(2) 6" Electric Conduits	6.35'	Plastic (Gray)	377.64'	N/A	NVC
09/17/15	3	Electric	Electric Duct	3.38'	Concrete	375.67'	0.9' Asphalt	NVC
09/17/15	4	Electric	(2) 6" Electric Conduits	1.60'	Plastic (Gray)	379.90'	N/A	NVC
09/17/15	5	Water	16" Water	8.99'	Wrapped Ductile Iron (Black)	350.30'	N/A	LSB
09/17/15	6	Water	16" Water	6.89'	Wrapped Ductile Iron (Black)	356.51'	N/A	LSB
09/16/15	7	Water	16" Water	3.91'	Ductile Iron	373.96'	0.9' Asphalt	LSB
09/16/15	8	Water	None Found	See Notes	N/A	N/A	1.3' Asphalt	LSB
09/15/15	9	Water Tee	Water Tee	12.78'	Iron (See Notes)	370.46'	1.2' Asphalt	LSB
08/25/15	10	Water	8" Water	4.85'	Ductile Iron (Black)	371.58'	N/A	LSB
09/09/15	11	Water	8" Water	3.70'	Ductile Iron (Black)	372.24'	N/A	LSB
09/09/15	11A	Water	1" Comm. Conduit 1" Comm. Conduit	1.50' 2.43'	Plastic (Orange) Plastic (Orange)	374.45' 373.52'	N/A	Unknown Unknown
08/25/15	12	Water	16" Water	5.28'	Ductile Iron (Black)	361.37'	N/A	LSB
09/09/15	13	CATV	2" CATV Conduit	6.64'	Plastic (Blue)	380.15'	N/A	CMC
09/17/15	14	CATV	1.25" CATV Cable	2.49'	Direct Buried (Black)	381.61'	N/A	CMC
09/01/15	15	Water	8" Water	8.33'	Cast Iron	373.56'	1.0' Asphalt	LSB
09/10/15	16	Water	16" Water	5.09'	Wrapped Ductile Iron (Black)	380.91'	N/A	LSB
09/10/15	17	Water Gas	16" Water 12" Gas	5.60' 7.25'	Wrapped Ductile Coated Steel	379.45' 377.80'	0.6' Asphalt	LSB WGL
09/14/15	18	Water	16" Water	5.07'	Wrapped Ductile Iron (Black)	380.79'	N/A	LSB
09/09/15	19	Gas	12" Gas	7.41'	Wrapped Steel	376.02'	N/A	WGL
08/27/15	20	Gas	None Found	See Notes	N/A	N/A	N/A	WGL
09/04/15	21	Gas	12" Gas	5.19'	Wrapped Steel	360.48'	N/A	WGL
08/25/15	22	Gas	12" Gas	7.93'	Wrapped Steel	375.39'	N/A	WGL
09/15/15	23	Gas	12" Gas	3.19'	Wrapped Steel	378.73'	1.0' Asphalt	WGL
09/16/15	24	Gas	12" Gas	3.79'	Wrapped Steel	380.66'	0.7' Asphalt	WGL
09/09/15	25	Water	12" Water	5.58'	Cast Iron	368.39'	N/A	LSB
08/25/15	26	Tele. / Fiber Optic	4" T/FO Conduit	8.49'	Plastic (Orange)	375.45'	N/A	VZN
08/25/15	27	Fiber Optic	(2) 4" FO Conduits	2.88'	Plastic (White)	379.88'	N/A	VZN

Date	TH#	Utility Requested	Utility Found	Existing Grade Depth	Material Type	Utility Elevation	Pavement Thickness	Utility Owner
08/25/15	28	CATV	2" CATV Conduit 2" Conduit 1" Cable 1" Cable	1.82' 1.94' 2.09' 2.19'	Plastic (Blue)	380.82' 380.70' 380.55' 380.45'	N/A	LIT
09/10/15	29	Gas	2" Gas	2.57'	Plastic (Yellow)	388.51'	N/A	WGL
09/04/15	30	Gas	12" Gas	8.33'	Wrapped Steel	359.92'	N/A	WGL
09/14/15	31	Water	16" Water	4.00'	Wrapped Ductile Iron (Black)	364.25'	N/A	LSB
09/02/15	32	CATV	1" CATV Cable	3.11'	Direct Buried (Black)	379.28'	0.6' Asphalt	CMC
09/02/15	33	Telephone	(2) 5" Telephone Conduits	5.42'	Plastic	376.93'	0.6' Asphalt	VZN
09/02/15	34	Telephone	(2) 1.5" Telephone Conduits Telephone Cable	3.50'	Plastic Direct Buried	378.80'	0.6' Asphalt	VZN
09/16/15	35 & 36	Electric	(2) 6" Electric Conduits	4.21'	Plastic (Gray)	378.12'	0.5' Asphalt	NVE
09/01/15	37	Fiber Optic	4" Fiber Optic Conduit	3.98'	Plastic	378.33'	0.6' Asphalt	VZN
09/01/15	38	Fiber Optic	2" Fiber Optic Conduit	3.26'	Plastic	379.05'	N/A	VZN
08/25/15	39	Water	16" Water	5.40'	Ductile Iron (Black)	359.68'	N/A	LSB
08/24/15	40	Water	None Found	See Notes	N/A	N/A	N/A	LSB
09/17/15	41	Water	24" Water	6.70'	Cast Iron	358.84'	N/A	LSB
08/26/15	42	Fiber Optic	4" Fiber Optic Conduit 1.5" Fiber Optic Conduit	4.02' 3.98'	Plastic (Orange) Plastic (Orange/Black)	377.95' 377.99'	0.7' Asphalt	VZN
08/26/15	43	Fiber Optic	4" Fiber Optic Conduit 4" Fiber Optic Conduit	4.10' 4.17'	Plastic (White) Plastic (White)	378.05' 377.98'	0.7' Asphalt	VZN
08/26/15	44	Unknown	1.5" Unknown	2.64'	Steel	379.64'	0.7' Asphalt	Unknown
08/26/15	45	CATV	(2) 2" CATV Conduits 4" CATV Conduit	2.94'	Plastic (Blue) Plastic (Gray)	379.42'	0.7' Asphalt	LIT
08/26/15	46	Electric	3" Electric Conduit	2.93'	Plastic (Black)	379.52'	0.6' Asphalt	DOM
09/16/15	47	Gas	12" Gas	3.64'	Coated Steel	379.39'	0.8' Asphalt	WGL
09/16/15	48	Water	Water	12.99'	Iron	370.05'	0.8' Asphalt	LSB
05/20/16	50	Water	12" Water	2.96'	Ductile Iron	386.79'	1.0' Asph	LCW
05/20/16	51	Water	8" Water	4.09'	Ductile Iron	385.29'	N/A	LCW
05/20/16	52	Water	12" Water	4.72'	Ductile Iron	375.59'	N/A	LCW
05/20/16	53	Gas	2" Gas	2.01'	Plastic	377.67'	N/A	WGL
05/19/16	54	Fiber Optic	4" Fiber Optic	2.99'	Steel	373.58'	N/A	UNKNOWN
05/19/16	55	Water	16" Water	4.06'	Ductile Iron	371.50'	N/A	LCW
05/11/16	56	Water	16" Water	4.50'	Ductile Iron	374.93'	0.6' Asph	LCW
05/11/16	57	Water	16" Water	13.32'	See Notes	369.91'	0.7' Asph	LCW
05/18/16	58	Fiber Optic	2" Fiber Optic	3.03'	Plastic	378.65'	N/A	LCW
05/12/16	59	Water	16" Water	7.44'	Ductile Iron	375.24'	N/A	LCW
05/12/16	60	Water	16" Water	5.48'	Ductile Iron	378.40'	N/A	LCW
05/16/16	61	Water	16" Water	5.30'	Poly Wrapped	385.04'	0.3' Asphalt	LCW
05/18/16	62	Gas	12" Gas	2.36'	Wrapped Steel	390.85'	N/A	LCW
05/18/16	63	Water	12" Water	8.25'	Wrapped Steel	387.10'	N/A	LCW
05/16/16	64	Water	16" Water	7.45'	Cast Iron	384.62'	N/A	LCW
05/16/16	65	Water	2" Water	6.38'	Copper	378.68'	N/A	LCW

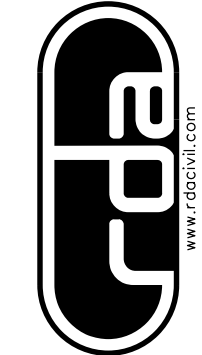
ASSOCIATED PLAN
 C.I.P. NUMBER: TLCI-2016-0002
 VDOT PROJ. NO. U000-253-312

TOWN NUMBER: TBD

PROJECT NAME: **SYCOLIN ROAD WIDENING PHASE IV**
FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.
UNDERGROUND UTILITIES
TEST HOLE DATA

Loudoun County, Virginia
 Town of Leesburg
 SUBMISSION DATE: 02/21/2018

ENGINEER:
Rinker Design Associates, P.C.
 Engineering - Surveying - Land Planning - Transportation - Environmental Services
 6000 Decoye Blvd., Suite 200, Manassas, Virginia 20108 on the web @ www.rada.com
 Telephone: (703) 368-7373 Fax: (703) 375-5443
 Email: info@rada.com

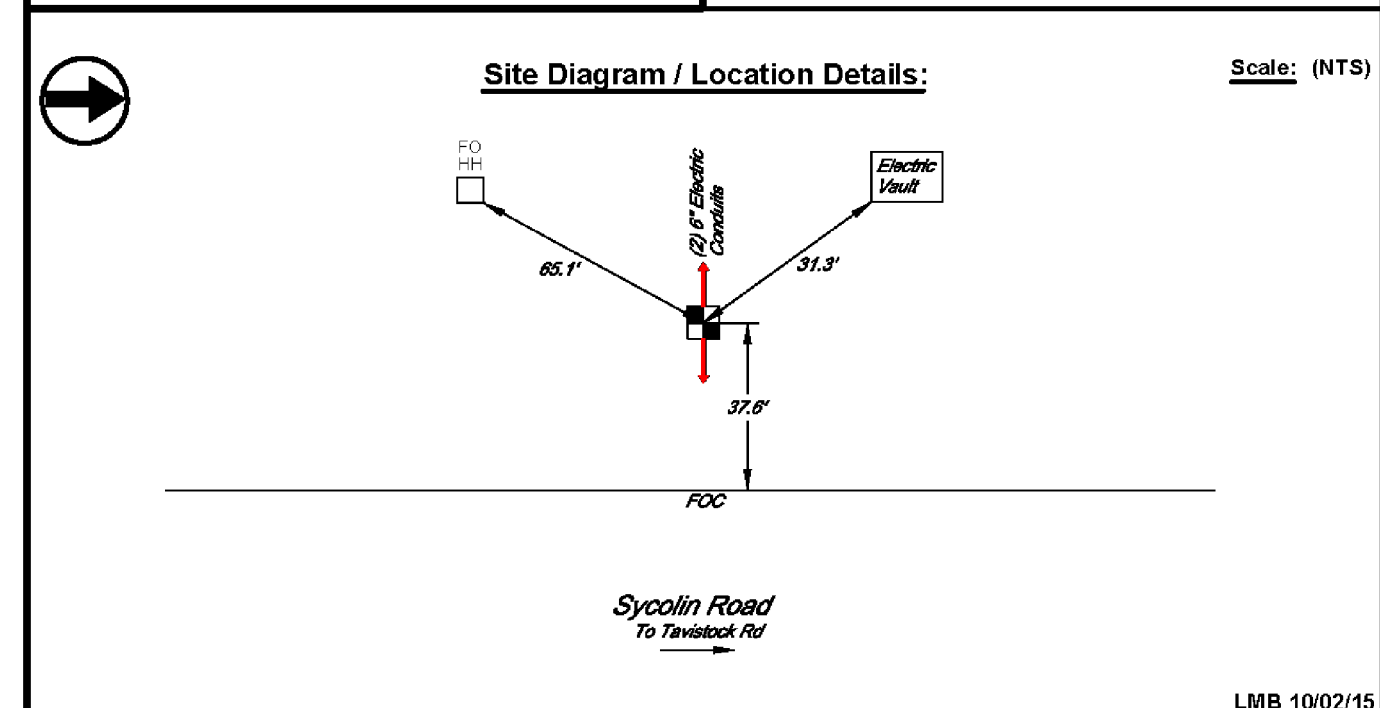


PROJECT MANAGER: MARK A. GUNN, P.E.

PROJECT MANAGER: Anne Gelaer, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: Accumark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sahab Dadir, P.E., (703) 368-7373

Test Hole #:	1 & 2	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Electric	Test Hole Date:	09/28/15
Utility Found:	Electric Conduits	Soil Conditions:	Rocky Clay
Material Makeup:	Plastic (Gray)	Utility Condition:	Good
Size Utility Found:	(2) 6"	Pavement Cond:	N/A (Grass)

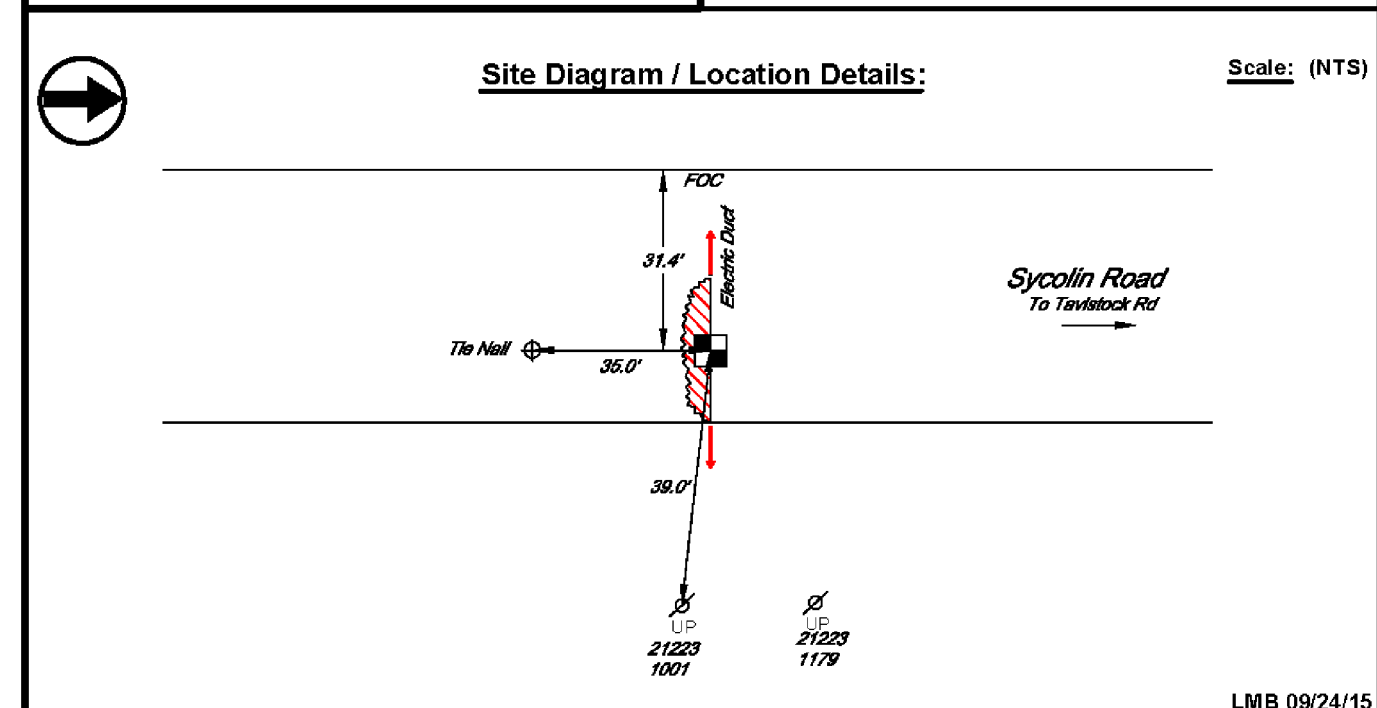
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	383.99'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	6.35'	Accumark, Inc.	381.79' (Pt. #9)
Elevation at top of utility:	377.64'	Northing:	7078285.1989
Elevation at bottom of utility:	N/A	Easting:	11751717.0323
		Elevation:	383.99'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	West	Notes:	
		Hub & Tac set 0.95' south of the centerline of the utility configuration.	



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Test Hole #:	3	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Electric	Test Hole Date:	09/17/15
Utility Found:	Electric Duct	Soil Conditions:	Rocky Moist Clay
Material Makeup:	Concrete	Utility Condition:	Good
Size Utility Found:	N/A	Pavement Cond:	Good (0.9' Asphalt)

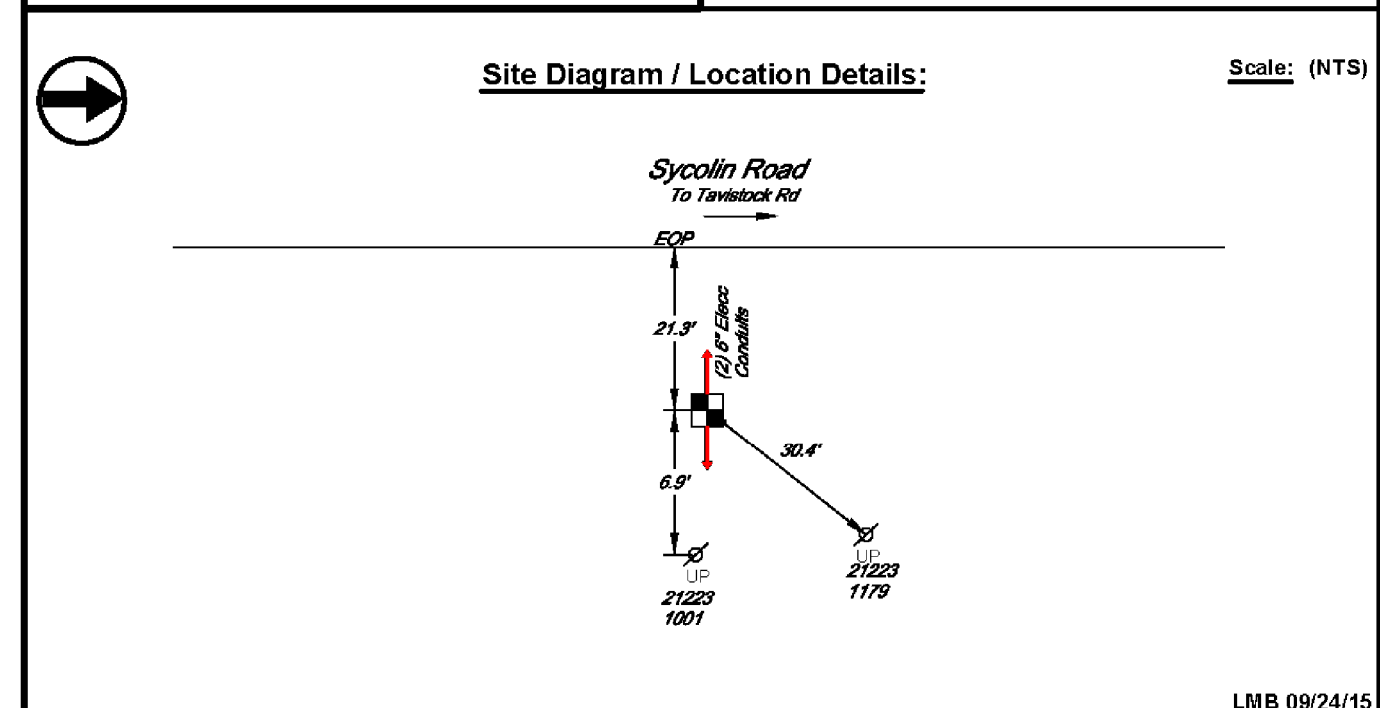
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	379.05'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	3.38'	Accumark, Inc.	381.79' (Pt. #9)
Elevation at top of utility:	375.67'	Northing:	7078270.3642
Elevation at bottom of utility:	370.31'	Easting:	11751786.3859
		Elevation:	379.05'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	8.74'	N/A	N/A
Drawn Facing:	West	Notes:	
		Hub & Tac set over north edge of duct.	



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Test Hole #:	4	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Electric	Test Hole Date:	09/17/15
Utility Found:	Electric Conduits	Soil Conditions:	Rocky Dry Clay
Material Makeup:	Plastic (Gray)	Utility Condition:	Good
Size Utility Found:	(2) 6"	Pavement Cond:	N/A (Grass)

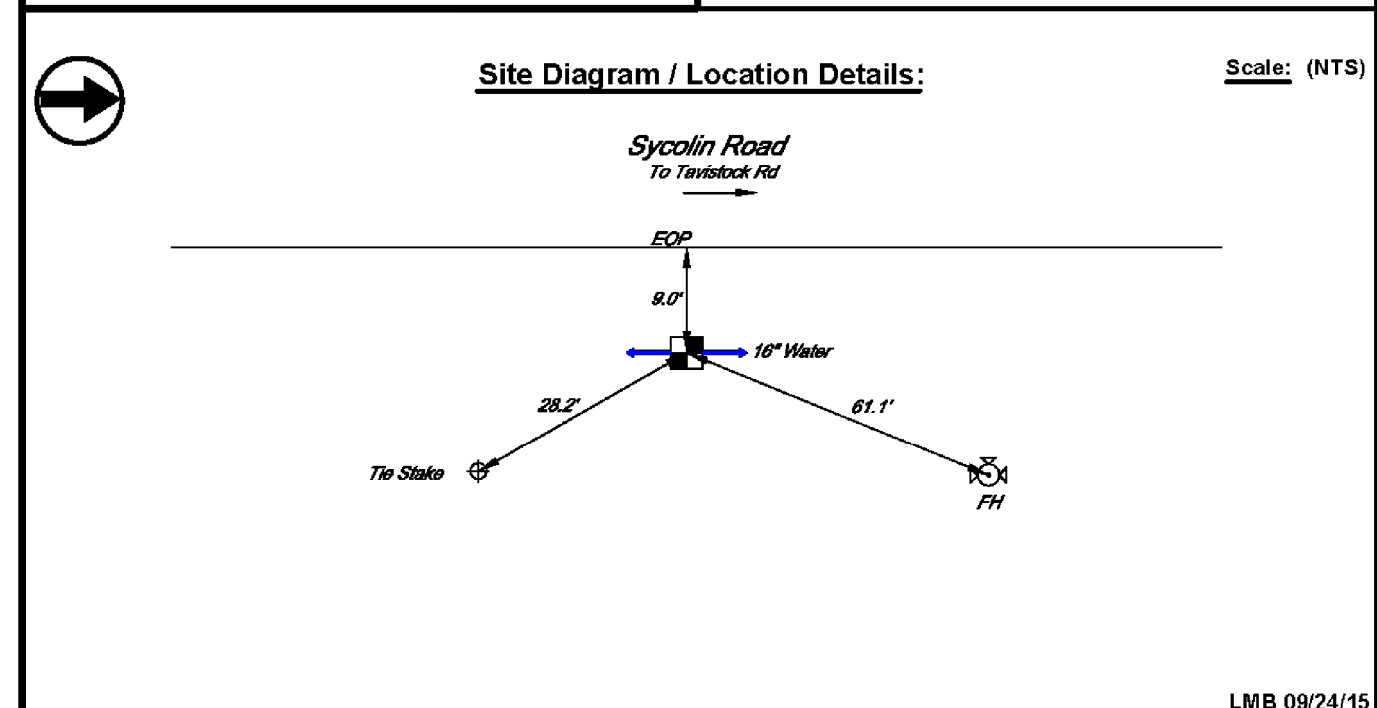
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	381.50'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	1.60'	Accumark, Inc.	381.79' (Pt. #9)
Elevation at top of utility:	379.90'	Northing:	7078283.3298
Elevation at bottom of utility:	N/A	Easting:	11751818.3097
		Elevation:	381.50'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	East	Notes:	
		Hub & Tac set over center of utility configuration.	



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Test Hole #:	5	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Water	Test Hole Date:	09/14/15
Utility Found:	Water	Soil Conditions:	Rocky Clay, Gravel, Water
Material Makeup:	Wrapped Ductile Iron (Black)	Utility Condition:	Good
Size Utility Found:	16"	Pavement Cond:	N/A (Gravel)

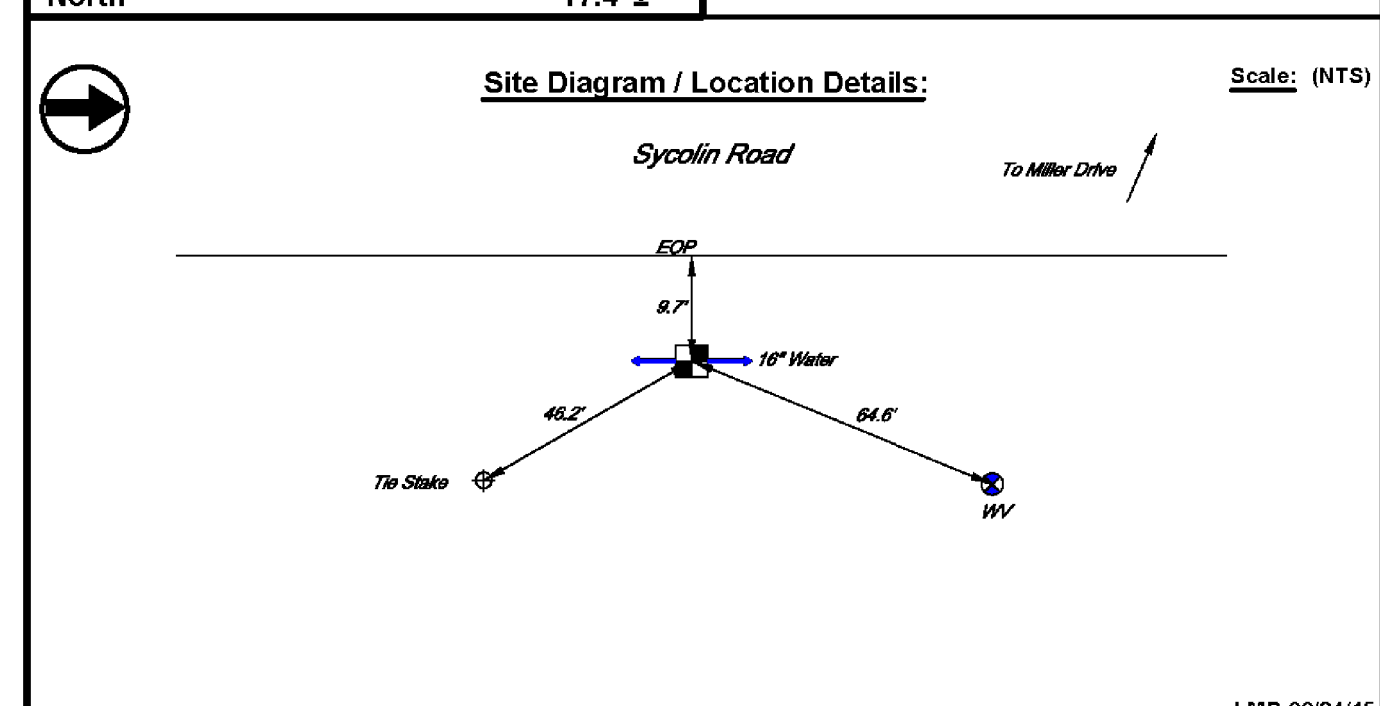
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	359.29'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	8.99'	Accumark, Inc.	364.80' (Pt. #7)
Elevation at top of utility:	350.30'	Northing:	7077584.0819
Elevation at bottom of utility:	N/A	Easting:	11751676.5378
		Elevation:	359.29'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	North	Notes:	
		Hub & Tac set over crown of utility. Vac hose present in photo due to excessive ground water.	



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Test Hole #:	6	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Water	Test Hole Date:	09/14/15
Utility Found:	Water	Soil Conditions:	Wet Clay
Material Makeup:	Wrapped Ductile Iron (Black)	Utility Condition:	Good
Size Utility Found:	16"	Pavement Cond:	N/A (Gravel)

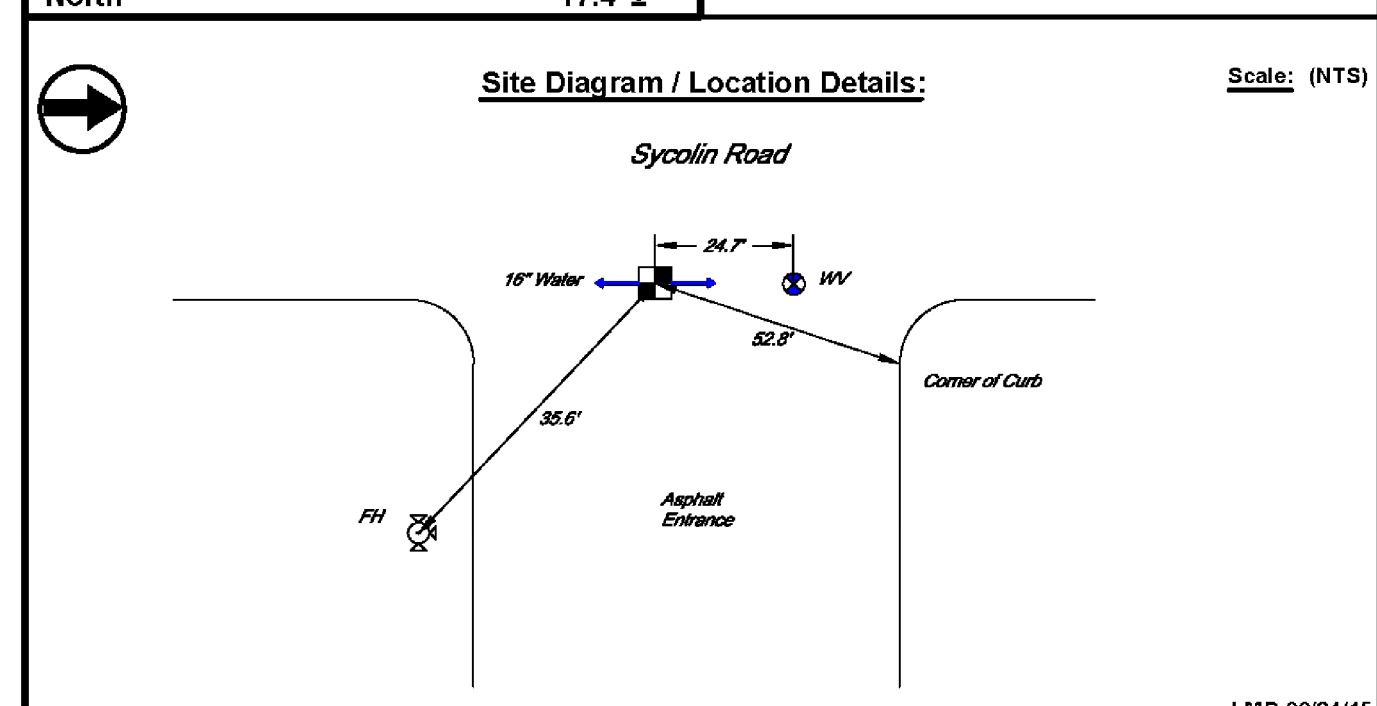
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	363.40'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	6.89'	Accumark, Inc.	364.80' (Pt. #7)
Elevation at top of utility:	356.51'	Northing:	7077813.3388
Elevation at bottom of utility:	N/A	Easting:	11751896.6878
		Elevation:	363.40'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	North	Notes:	
		Hub & Tac set over crown of utility.	



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Test Hole #:	7	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Water	Test Hole Date:	09/16/15
Utility Found:	Water	Soil Conditions:	Moist Rocky Clay
Material Makeup:	Ductile Iron	Utility Condition:	Good
Size Utility Found:	16"	Pavement Cond:	Good (0.8' Asphalt)

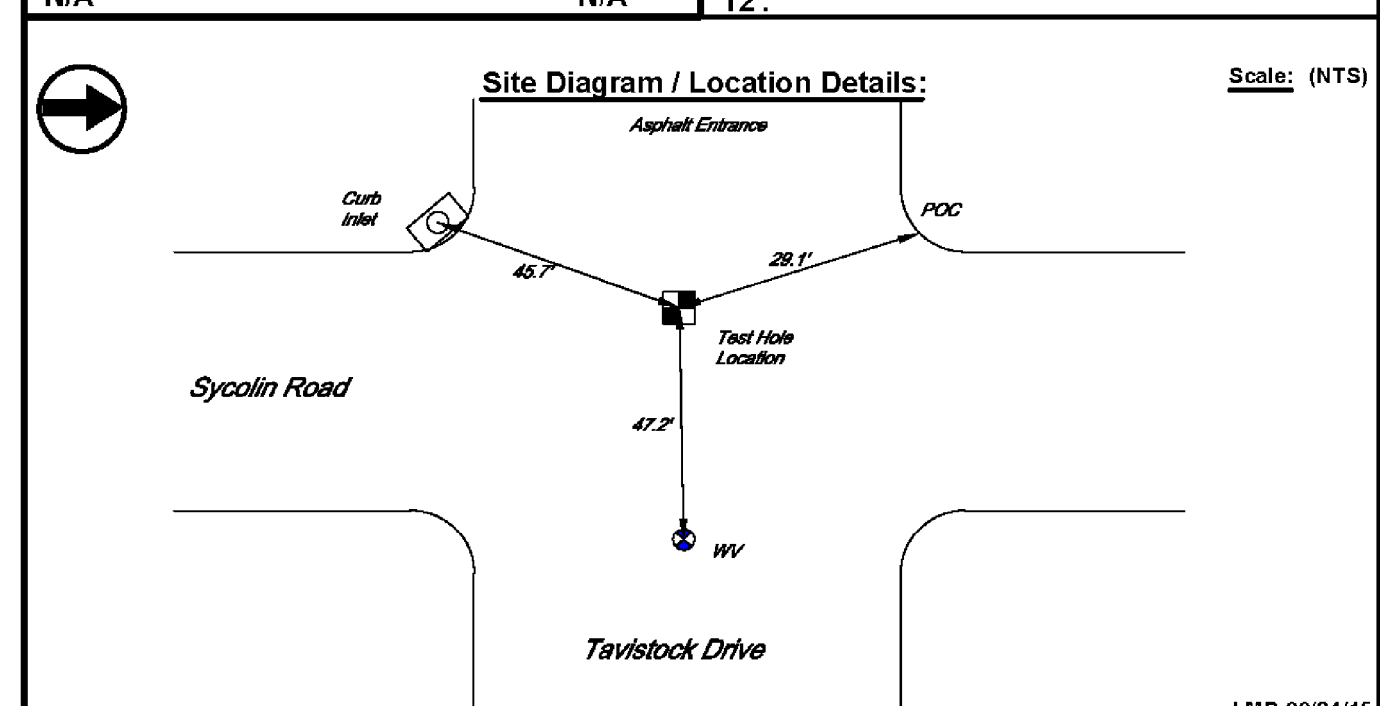
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	377.87'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	3.91'	Accumark, Inc.	375.23' (Pt. #6)
Elevation at top of utility:	373.96'	Northing:	7077017.8498
Elevation at bottom of utility:	N/A	Easting:	11751701.4262
		Elevation:	377.87'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	North	Notes:	
		Hub & Tac set over crown of utility.	



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Test Hole #:	8	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Water	Test Hole Date:	09/16/15
Utility Found:	See Notes	Soil Conditions:	Gravel, Water
Material Makeup:	See Notes	Utility Condition:	See Notes
Size Utility Found:	See Notes	Pavement Cond:	Good (1.3' Asphalt)

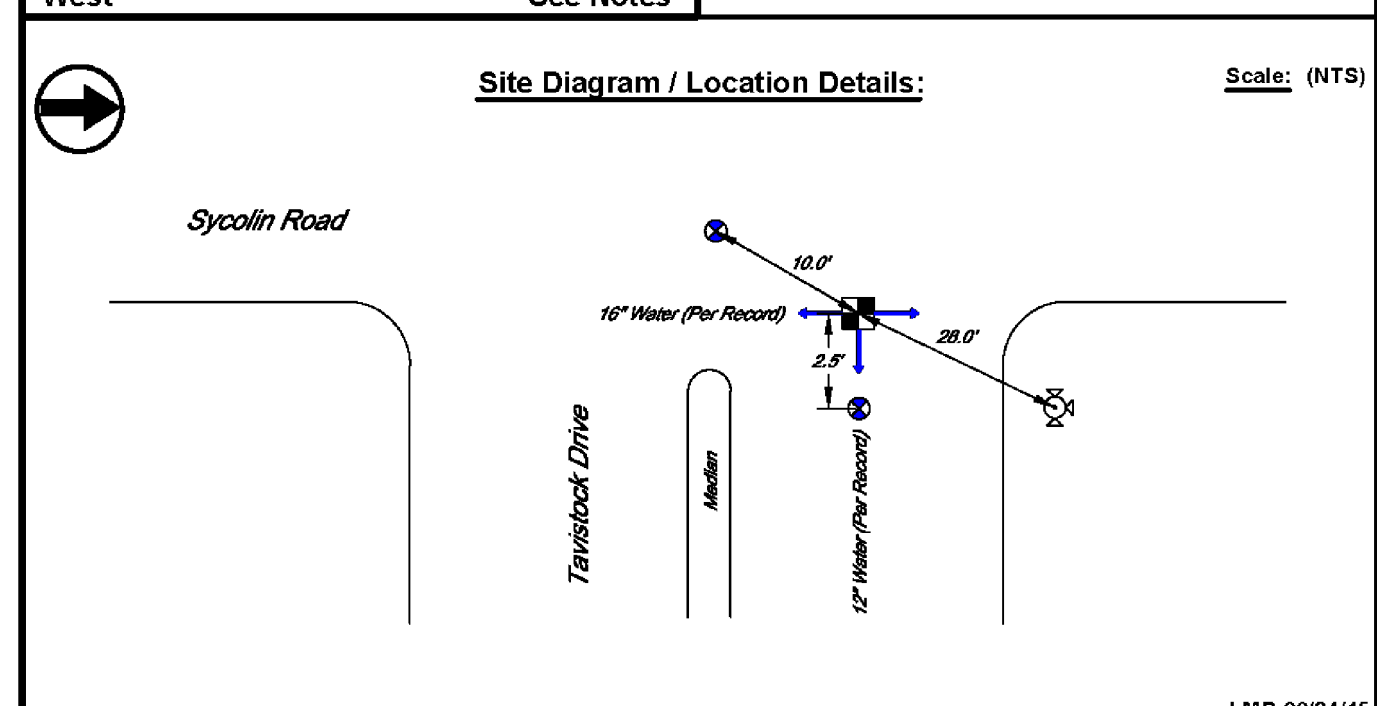
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	381.52'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	See Notes	Accumark, Inc.	383.56' (Pt. #10)
Elevation at top of utility:	N/A	Northing:	7078672.0775
Elevation at bottom of utility:	N/A	Easting:	11751838.3486
		Elevation:	381.52'
Cover (Top):	See Notes	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	North	Notes:	
		PK set over electronic signal. Crew excavated to a depth of 12.3' - no utility found. Ground water fills the test hole at a depth of 12'.	



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Test Hole #:	9	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Water Tee	Test Hole Date:	09/15/15
Utility Found:	Water Tee	Soil Conditions:	Rocky Clay
Material Makeup:	Iron (See Notes)	Utility Condition:	Good
Size Utility Found:	12" (Per Records)	Pavement Cond:	Good (1.2' Asphalt)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	383.24'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	12.78'	Accumark, Inc.	383.56' (Pt. #10)
Elevation at top of utility:	370.46'	Northing:	7078676.4093
Elevation at bottom of utility:	N/A	Easting:	11751890.0243
		Elevation:	383.24'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	West	Notes:	
		PK set over crown of pipe. 0.50' east of the intersecting thrust block. Crew unable to determine size or type due to cave-ins.	



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PROJECT MANAGER: Anne Gelsler, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: Accumark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sahab Qadiri, P.E., (703) 368-7373

Test Hole #: 10	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road, Leesburg, Virginia
Requested By: Rinker Design Associates	Utility Owner: LSB
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Water	Test Hole Date: 08/25/15
Utility Found: Water	Soil Conditions: Dry Rocky Clay
Material Makeup: Ductile Iron (Black)	Utility Condition: Good
Size Utility Found: 8"	Pavement Cond: N/A (Grass)

Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 376.43'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 4.85'	Accumark, Inc. 375.23' (Pt. #6)
Elevation at top of utility: 371.58'	Northing: 7077013.5128
Elevation at bottom of utility: N/A	Easting: 11751737.7514
	Elevation: 376.43'

Cover (Top): 4.85'	Station: N/A	Offset: N/A
Cover (Bottom): N/A	Notes: Hub & Tac set over crown of utility.	
Drawn Facing: East	Utility Width: 9"±	

Scale: (NTS)

LMB 09/24/15

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Test Hole #: 11	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road, Leesburg, Virginia
Requested By: Rinker Design Associates	Utility Owner: LSB
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Water	Test Hole Date: 09/09/15
Utility Found: Water	Soil Conditions: Rocky Clay
Material Makeup: Ductile Iron	Utility Condition: Fair
Size Utility Found: 8"	Pavement Cond: N/A (Grass)

Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 375.94'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 3.70'	Accumark, Inc. 375.23' (Pt. #6)
Elevation at top of utility: 372.24'	Northing: 7076968.8102
Elevation at bottom of utility: N/A	Easting: 11751605.8155
	Elevation: 375.94'

Cover (Top): 3.70'	Station: N/A	Offset: N/A
Cover (Bottom): N/A	Notes: Hub & Tac set over crown of utility.	
Drawn Facing: East	Utility Width: 9"±	

Scale: (NTS)

LMB 09/24/15

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Test Hole #: 11A	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road, Leesburg, Virginia
Requested By: Rinker Design Associates	Utility Owner: Unknown
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Water	Test Hole Date: 09/09/15
Utility Found: Comm. Conduits	Soil Conditions: Rocky Clay
Material Makeup: Plastic (Orange)	Utility Condition: Fair
Size Utility Found: (2) 1"	Pavement Cond: N/A (Grass)

Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 375.95'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 1.50' / 2.43'	Accumark, Inc. 375.23' (Pt. #6)
Elevation at top of utility: 374.45' / 373.52'	Northing: 7076968.3432
Elevation at bottom of utility: N/A	Easting: 11751605.7878
	Elevation: 375.95'

Cover (Top): 1.50' / 2.43'	Station: N/A	Offset: N/A
Cover (Bottom): N/A	Notes: Hub & Tac set over intersection of 2 conduits.	
Drawn Facing: Southeast	Utility Width: 1.5"±	

Scale: (NTS)

LMB 09/24/15

ACCUMARK, INC. (800) 542-2990

Test Hole #: 12	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road, Leesburg, Virginia
Requested By: Rinker Design Associates	Utility Owner: LSB
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Water	Test Hole Date: 08/25/15
Utility Found: Water	Soil Conditions: Dry Clay, Rock
Material Makeup: Ductile Iron (Black)	Utility Condition: Fair
Size Utility Found: 16"	Pavement Cond: N/A (Gravel)

Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 366.65'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 5.28'	Accumark, Inc. 375.23' (Pt. #6)
Elevation at top of utility: 361.37'	Northing: 7077247.2151
Elevation at bottom of utility: N/A	Easting: 11751687.5983
	Elevation: 366.65'

Cover (Top): 5.28'	Station: N/A	Offset: N/A
Cover (Bottom): N/A	Notes: Hub & Tac set over intersection of 2 conduits.	
Drawn Facing: North	Utility Width: 17.4"±	

Scale: (NTS)

LMB 09/24/15

ACCUMARK, INC. (800) 542-2990

Test Hole #: 13	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road, Leesburg, Virginia
Requested By: Rinker Design Associates	Utility Owner: CMC
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: CATV	Test Hole Date: 09/09/15
Utility Found: CATV Conduit	Soil Conditions: Hard Dry Clay, Rocks
Material Makeup: Plastic (Blue)	Utility Condition: Good
Size Utility Found: 2"	Pavement Cond: N/A (Grass)

Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 386.79'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 6.64'	Accumark, Inc. 383.56' (Pt. #10)
Elevation at top of utility: 380.15'	Northing: 7078846.6875
Elevation at bottom of utility: N/A	Easting: 11751796.4762
	Elevation: 386.79'

Cover (Top): 6.64'	Station: N/A	Offset: N/A
Cover (Bottom): N/A	Notes: Hub & Tac set over crown of utility.	
Drawn Facing: North	Utility Width: 2.4"±	

Scale: (NTS)

LMB 09/28/15

ACCUMARK, INC. (800) 542-2990

Test Hole #: 14	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road, Leesburg, Virginia
Requested By: Rinker Design Associates	Utility Owner: CMC
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: CATV	Test Hole Date: 09/17/15
Utility Found: CATV Cable	Soil Conditions: Hard Sandy Clay
Material Makeup: Direct Buried (Black)	Utility Condition: Good
Size Utility Found: 1.25"	Pavement Cond: N/A (Grass)

Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 384.10'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 2.49'	Accumark, Inc. 381.79' (Pt. #9)
Elevation at top of utility: 381.61'	Northing: 7078393.4852
Elevation at bottom of utility: N/A	Easting: 11751881.5018
	Elevation: 384.10'

Cover (Top): 2.49'	Station: N/A	Offset: N/A
Cover (Bottom): N/A	Notes: Hub & Tac set over crown of utility.	
Drawn Facing: North	Utility Width: 1.25"±	

Scale: (NTS)

LMB 09/28/15

ACCUMARK, INC. (800) 542-2990

Test Hole #: 15	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road, Leesburg, Virginia
Requested By: Rinker Design Associates	Utility Owner: LSB
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Water	Test Hole Date: 09/01/15
Utility Found: Water	Soil Conditions: Rocky Clay
Material Makeup: Cast Iron	Utility Condition: Fair
Size Utility Found: 8"	Pavement Cond: Fair 1.0" Asphalt

Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 381.89'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 8.33'	Accumark, Inc. 383.56' (Pt. #10)
Elevation at top of utility: 373.56'	Northing: 7078674.5301
Elevation at bottom of utility: N/A	Easting: 11751800.2961
	Elevation: 381.89'

Cover (Top): 8.33'	Station: N/A	Offset: N/A
Cover (Bottom): N/A	Notes: PK set over crown of utility.	
Drawn Facing: East	Utility Width: 9.1"±	

Scale: (NTS)

LMB 09/28/15

ACCUMARK, INC. (800) 542-2990

Test Hole #: 16	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road, Leesburg, Virginia
Requested By: Rinker Design Associates	Utility Owner: LSB
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Water	Test Hole Date: 09/10/15
Utility Found: Water	Soil Conditions: Rocky Clay
Material Makeup: Wrapped Ductile Iron (Black)	Utility Condition: Good
Size Utility Found: 16"	Pavement Cond: N/A (Grass)

Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 386.00'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 5.09'	Accumark, Inc. 387.50' (Pt. #11)
Elevation at top of utility: 380.91'	Northing: 7079017.4094
Elevation at bottom of utility: N/A	Easting: 11751906.5617
	Elevation: 386.00'

Cover (Top): 5.09'	Station: N/A	Offset: N/A
Cover (Bottom): N/A	Notes: Hub & Tac set over crown of utility.	
Drawn Facing: North	Utility Width: 17.4"±	

Scale: (NTS)

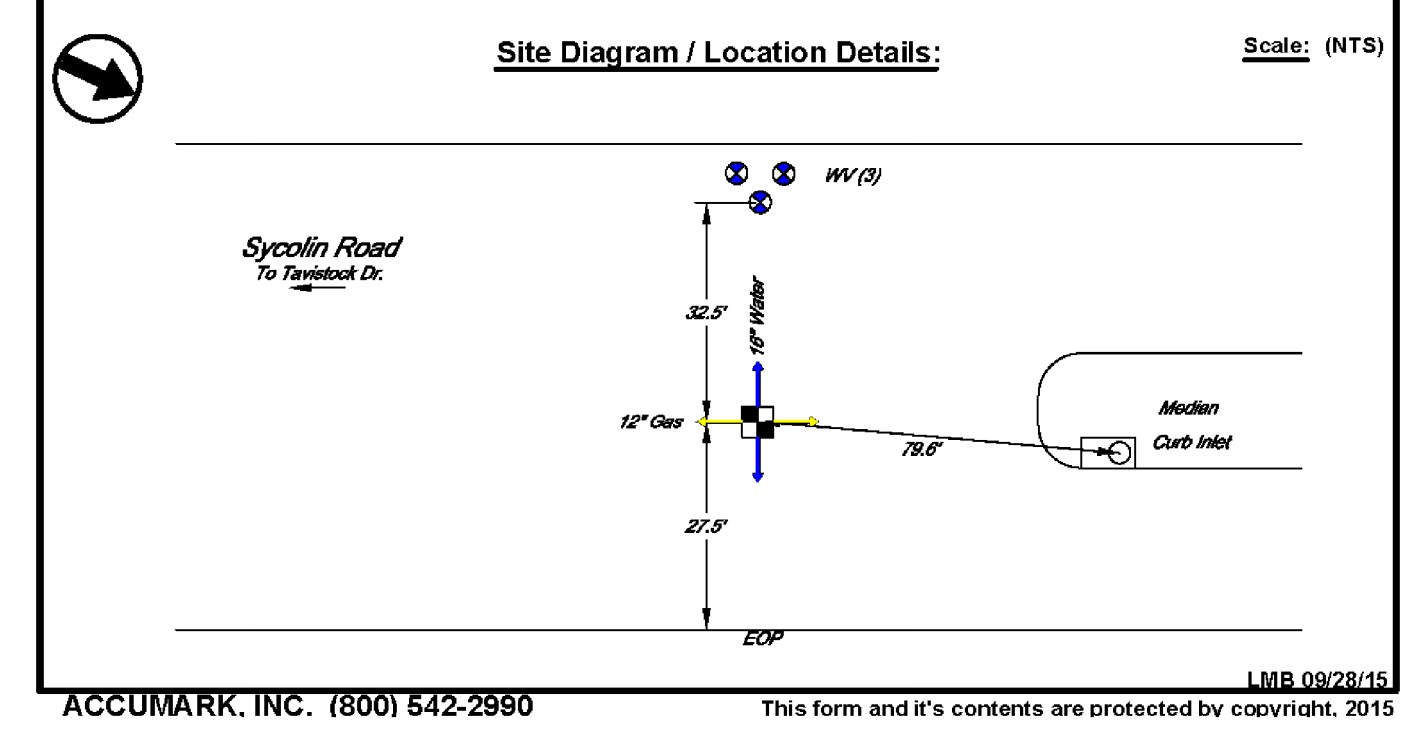
LMB 09/28/15

ACCUMARK, INC. (800) 542-2990

PROJECT MANAGER: Anne Geller, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: Accumark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sahab Dadir, P.E., (703) 368-7373

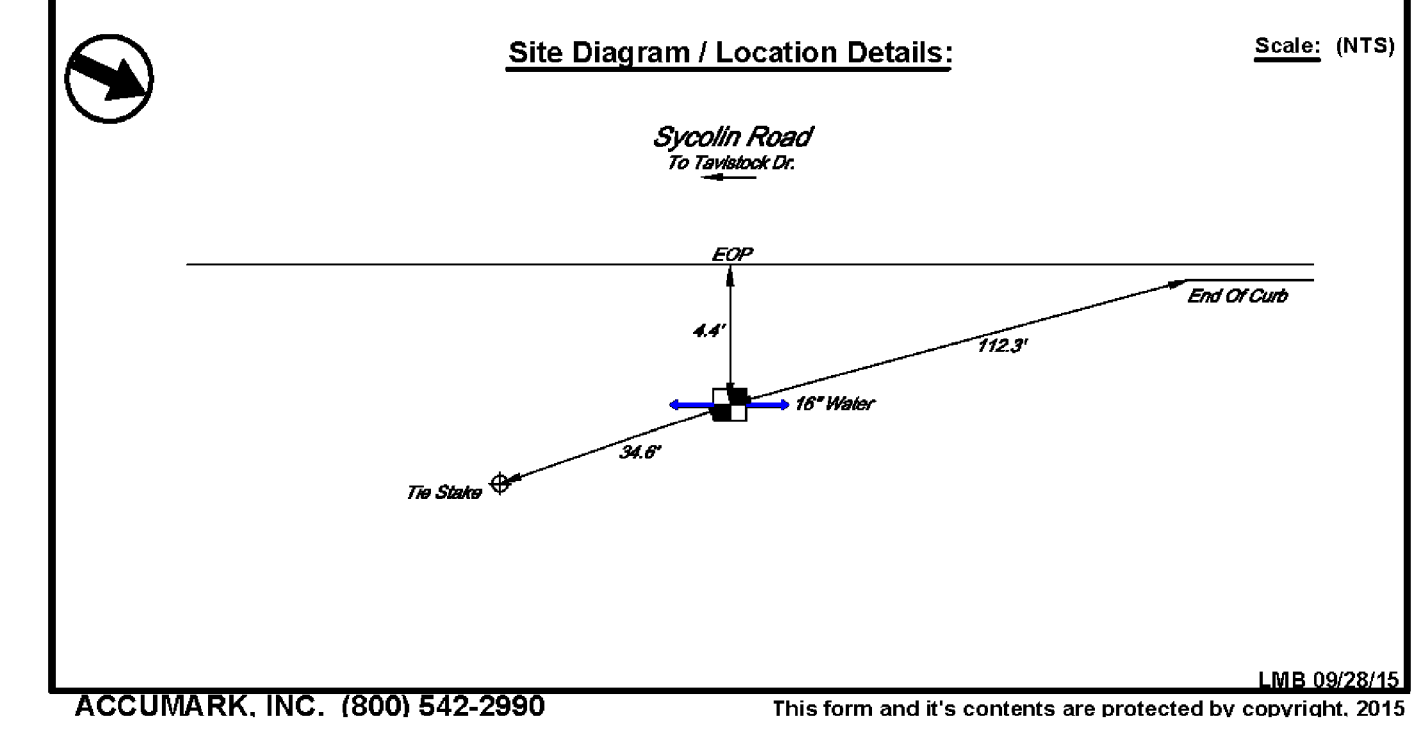
Test Hole #: 17	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: Leesburg, Virginia
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Water	Test Hole Date: 09/10/15
Utility Found: Water	Soil Conditions: Rocky Clay
Material Makeup: Wrapped Ductile (Black)	Utility Condition: Good
Size Utility Found: 16"	Pavement Cond: Good
	0.6' Asphalt

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 385.05'	Existing grade depth @ top of utility: 5.60' / 7.25'	Located By: Accumark, Inc.	Benchmark Elevation: 396.60' (Pt. #12)
Elevation at top of utility: 379.45' / 377.80'	Elevation at bottom of utility: N/A	Northing: 7079714.5878	Easting: 11751799.7867
		Station: N/A	Offset: N/A
Cover (Top): 5.60' / 7.25' Cover (Bottom): N/A Drawn Facing: Northeast Utility Width: 17.4" ±		Notes: PK set over crown of water, 0.6' east of gas.	



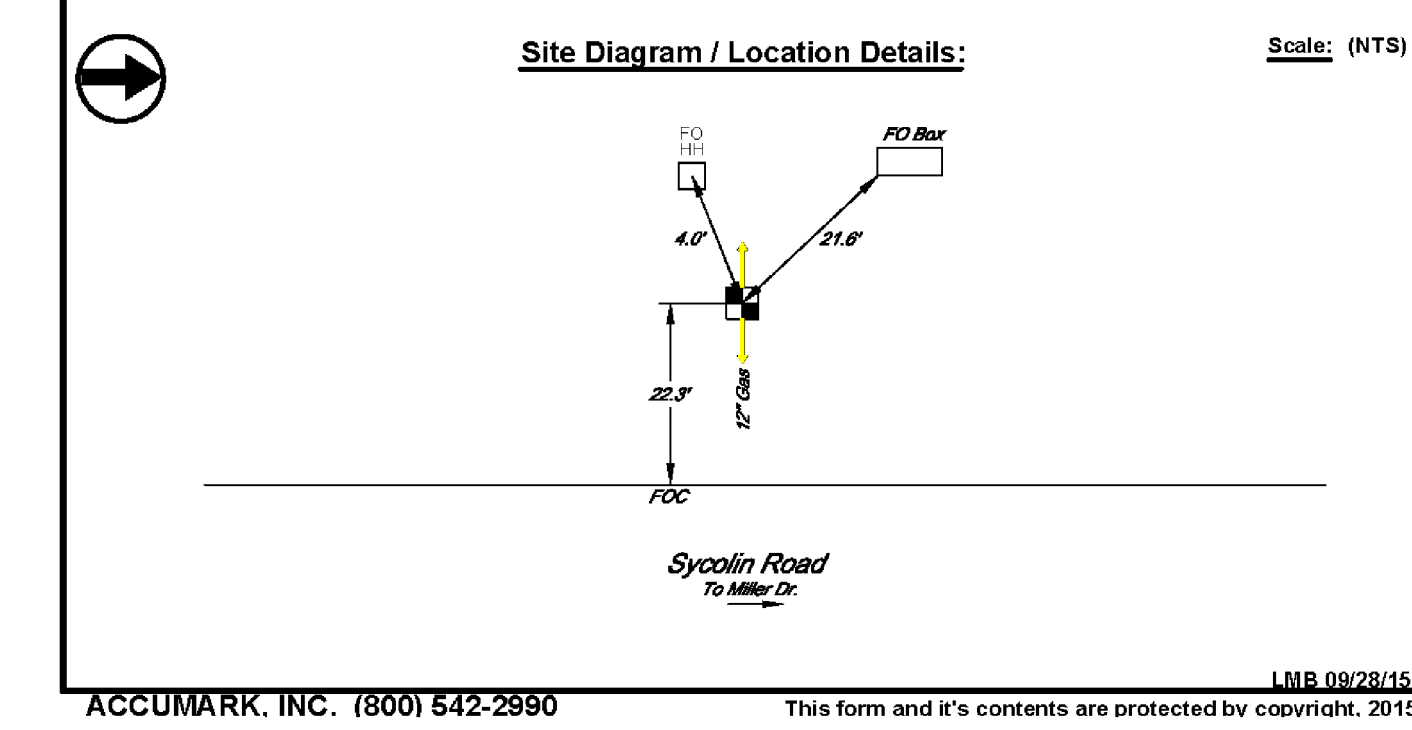
Test Hole #: 18	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: Leesburg, Virginia
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Water	Test Hole Date: 09/14/15
Utility Found: Water	Soil Conditions: Rocky Clay
Material Makeup: Wrapped Ductile (Black)	Utility Condition: Good
Size Utility Found: 16"	Pavement Cond: N/A
	(Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 385.86'	Existing grade depth @ top of utility: 5.07'	Located By: Accumark, Inc.	Benchmark Elevation: 396.60' (Pt. #12)
Elevation at top of utility: 380.79'	Elevation at bottom of utility: N/A	Northing: 7079656.5889	Easting: 11751845.9412
		Station: N/A	Offset: N/A
Cover (Top): 5.07' Cover (Bottom): N/A Drawn Facing: Northwest Utility Width: 17.4" ±		Notes: Hub & Tack set over crown of utility.	



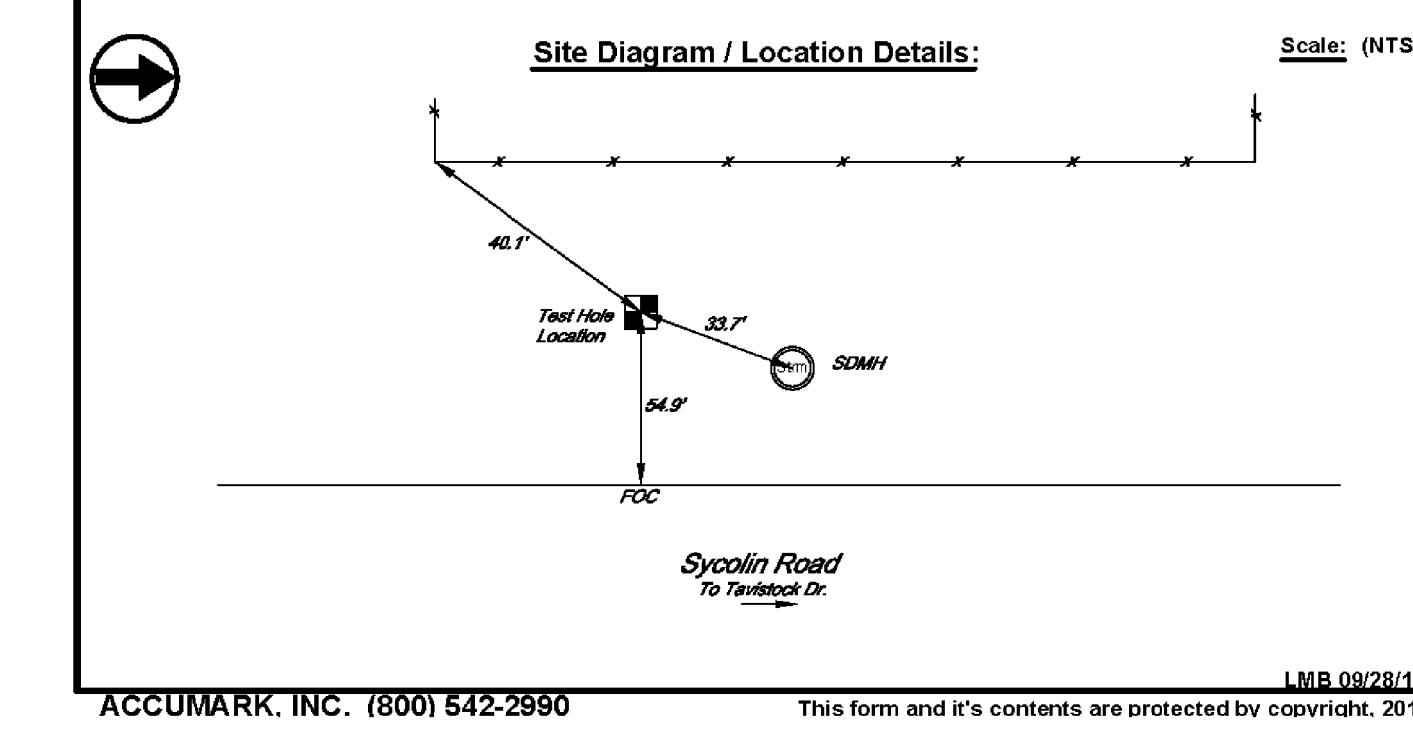
Test Hole #: 19	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: Leesburg, Virginia
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Gas	Test Hole Date: 09/09/15
Utility Found: Gas	Soil Conditions: Rocky Clay
Material Makeup: Wrapped Steel	Utility Condition: Fair
Size Utility Found: 12"	Pavement Cond: N/A
	(Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 383.43'	Existing grade depth @ top of utility: 7.41'	Located By: Accumark, Inc.	Benchmark Elevation: 375.23' (Pt. #6)
Elevation at top of utility: 376.02'	Elevation at bottom of utility: N/A	Northing: 7076912.0747	Easting: 11751644.6306
		Station: N/A	Offset: N/A
Cover (Top): 7.41' Cover (Bottom): N/A Drawn Facing: East Utility Width: 13" ±		Notes: Hub & Tack set over crown of utility.	



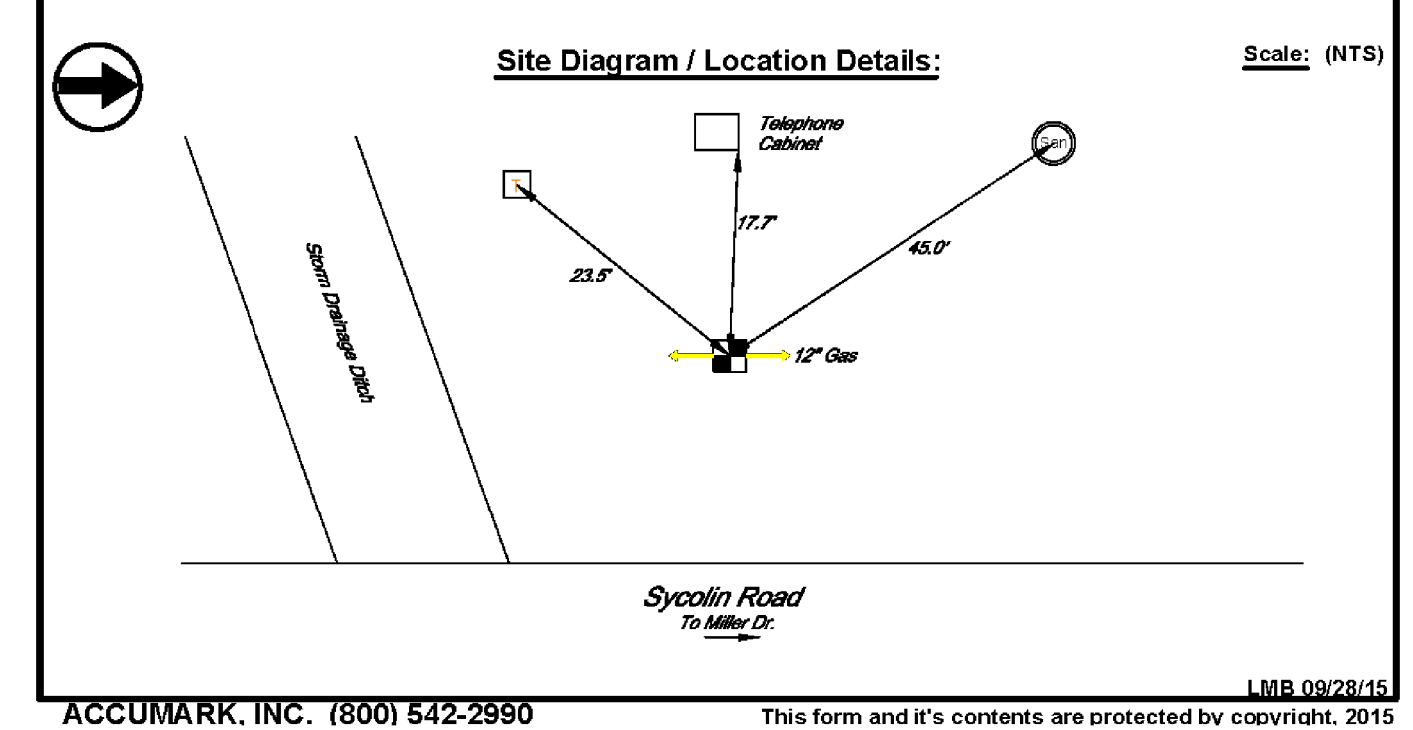
Test Hole #: 20	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: Leesburg, Virginia
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Gas	Test Hole Date: 08/27/15
Utility Found: See Notes	Soil Conditions: Hard Rocky Clay
Material Makeup: See Notes	Utility Condition: See Notes
Size Utility Found: See Notes	Pavement Cond: N/A
	(Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 384.00'	Existing grade depth @ top of utility: See Notes	Located By: Accumark, Inc.	Benchmark Elevation: 381.79' (Pt. #9)
Elevation at top of utility: N/A	Elevation at bottom of utility: N/A	Northing: 7078367.2691	Easting: 11751719.1145
		Station: N/A	Offset: N/A
Cover (Top): See Notes Cover (Bottom): N/A Drawn Facing: N/A Utility Width: See Notes		Notes: Hub & Tack set over center of test hole. Large immovable rocks encountered at 7'. Crew unable to effectively probe due to large rocks. Yellow trace tape found at 6'.	



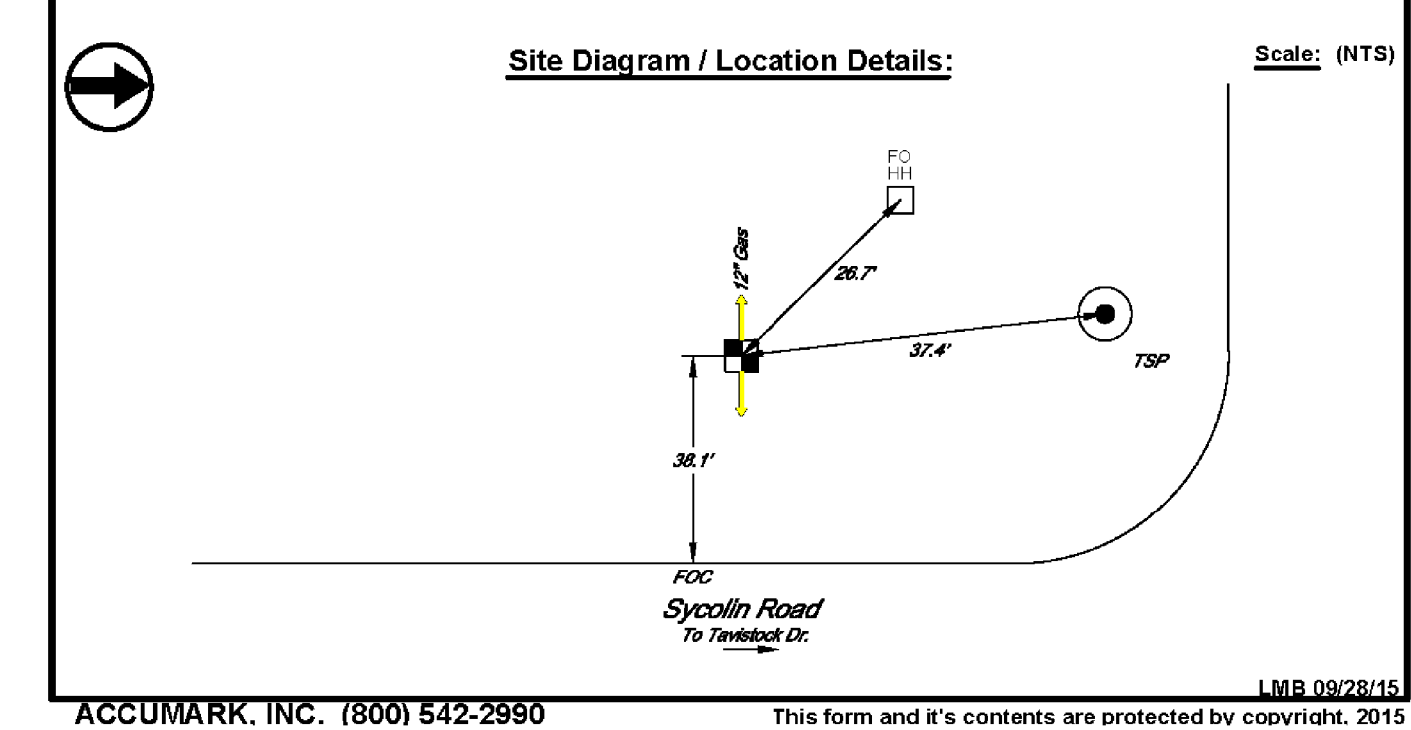
Test Hole #: 21	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: Leesburg, Virginia
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Gas	Test Hole Date: 09/04/15
Utility Found: Gas	Soil Conditions: Dry Clay
Material Makeup: Wrapped Steel	Utility Condition: Fair
Size Utility Found: 12"	Pavement Cond: N/A
	(Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 365.67'	Existing grade depth @ top of utility: 5.19'	Located By: Accumark, Inc.	Benchmark Elevation: 384.80' (Pt. #7)
Elevation at top of utility: 360.48'	Elevation at bottom of utility: N/A	Northing: 7077332.5241	Easting: 11751585.6180
		Station: N/A	Offset: N/A
Cover (Top): 5.19' Cover (Bottom): N/A Drawn Facing: North Utility Width: 13" ±		Notes: Hub & Tack set over crown of utility.	



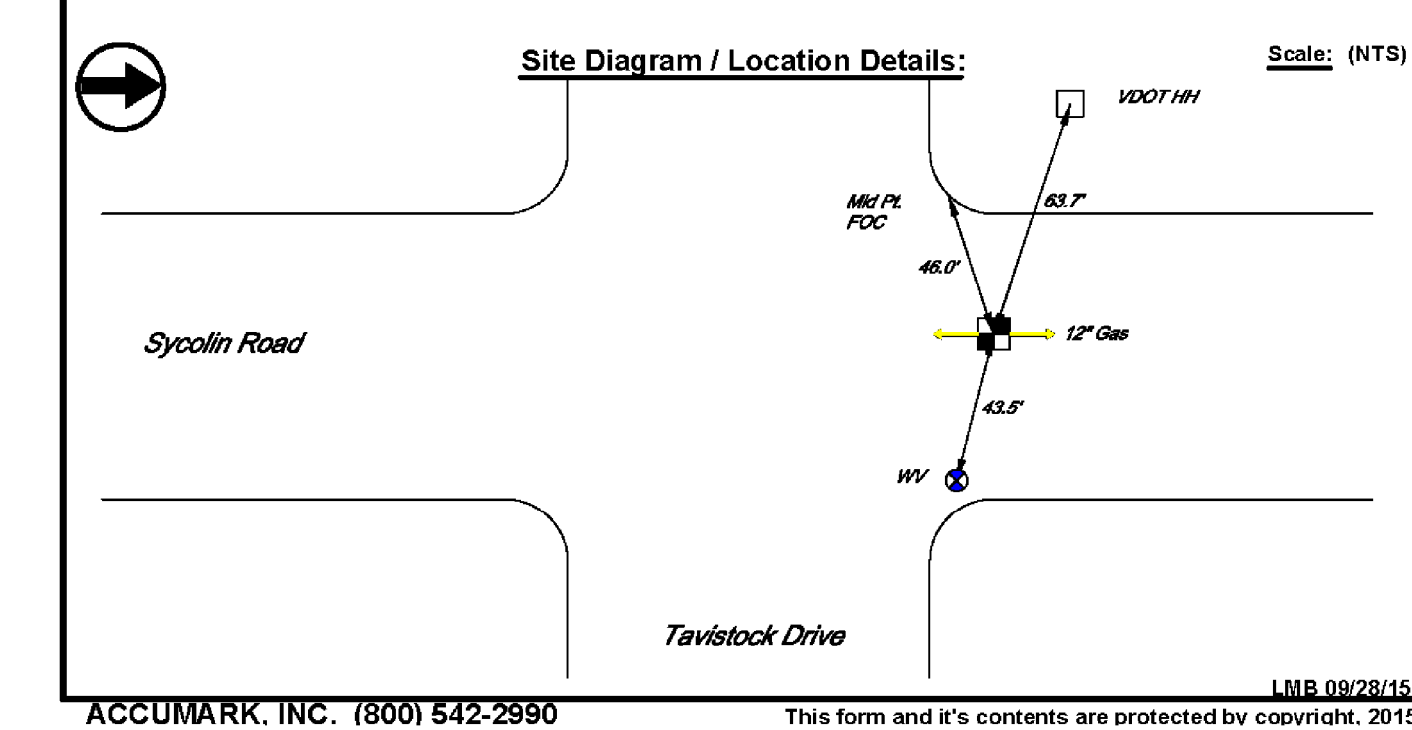
Test Hole #: 22	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: Leesburg, Virginia
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Gas	Test Hole Date: 08/25/15
Utility Found: Gas	Soil Conditions: Hard Dry Rocky Clay
Material Makeup: Wrapped Steel	Utility Condition: Good
Size Utility Found: 12"	Pavement Cond: N/A
	(Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 383.32'	Existing grade depth @ top of utility: 7.93'	Located By: Accumark, Inc.	Benchmark Elevation: 383.56' (Pt. #10)
Elevation at top of utility: 375.39'	Elevation at bottom of utility: N/A	Northing: 7078583.7334	Easting: 11751788.0095
		Station: N/A	Offset: N/A
Cover (Top): 7.93' Cover (Bottom): N/A Drawn Facing: East Utility Width: 13" ±		Notes: Hub & Tack set over crown of utility.	



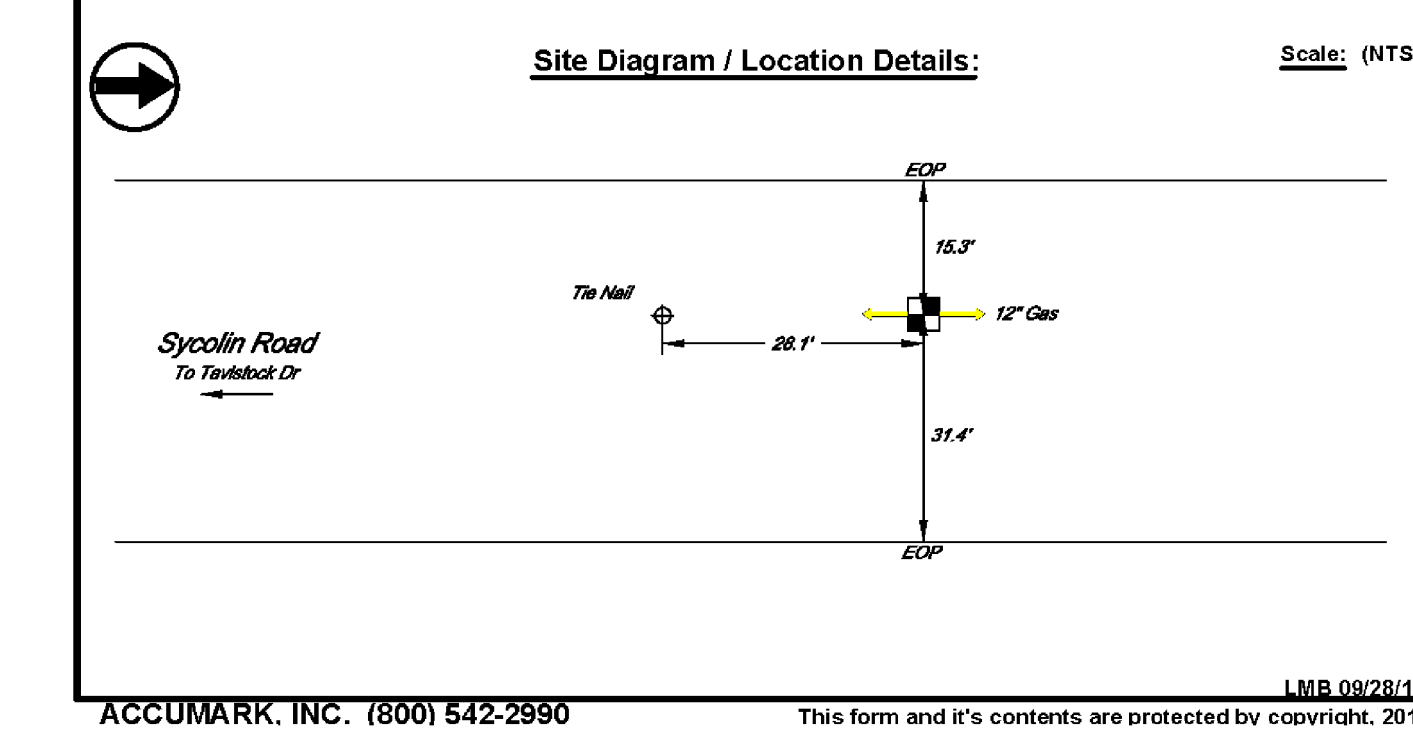
Test Hole #: 23	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: Leesburg, Virginia
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Gas	Test Hole Date: 09/15/15
Utility Found: Gas	Soil Conditions: Rocky Clay
Material Makeup: Wrapped Steel	Utility Condition: Good
Size Utility Found: 12"	Pavement Cond: Good
	1.0' Asphalt

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 381.92'	Existing grade depth @ top of utility: 3.19'	Located By: Accumark, Inc.	Benchmark Elevation: 383.56' (Pt. #10)
Elevation at top of utility: 378.73'	Elevation at bottom of utility: N/A	Northing: 7078713.4583	Easting: 11751853.6281
		Station: N/A	Offset: N/A
Cover (Top): 3.19' Cover (Bottom): N/A Drawn Facing: North Utility Width: 13" ±		Notes: PK set over crown of utility.	



Test Hole #: 24	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: Leesburg, Virginia
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Gas	Test Hole Date: 09/18/15
Utility Found: Gas	Soil Conditions: Rocky Clay
Material Makeup: Wrapped Steel	Utility Condition: Good
Size Utility Found: 12"	Pavement Cond: Good
	0.7' Asphalt

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 384.45'	Existing grade depth @ top of utility: 3.79'	Located By: Accumark, Inc.	Benchmark Elevation: 387.50' (Pt. #11)
Elevation at top of utility: 380.66'	Elevation at bottom of utility: N/A	Northing: 7078963.2434	Easting: 11751858.3250
		Station: N/A	Offset: N/A
Cover (Top): 3.79' Cover (Bottom): N/A Drawn Facing: North Utility Width: 13" ±		Notes: PK set over crown of utility.	



PROJECT NAME: **SYCOLIN ROAD WIDENING PHASE IV**
 FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.
 UNDERGROUND UTILITIES
 TEST HOLE DATA

ENGINEER: **Rinker Design Associates, P.C.**
 Engineering - Surveying - Land Planning - Transportation - Environmental Services
 10000 Old Dominion Drive, Suite 200, Leesburg, VA 20155
 Phone: (703) 368-7373 Fax: (703) 368-7373
 www.designassoc.com

PROJECT MANAGER: **MARK A. GUNN, P.E.**

ASSOCIATED PLAN NUMBER: **TLCI-2016-0002**
 C.I.P. NUMBER: **U000-253-312**
 VDOT PROJ. NO. **U000-253-312**

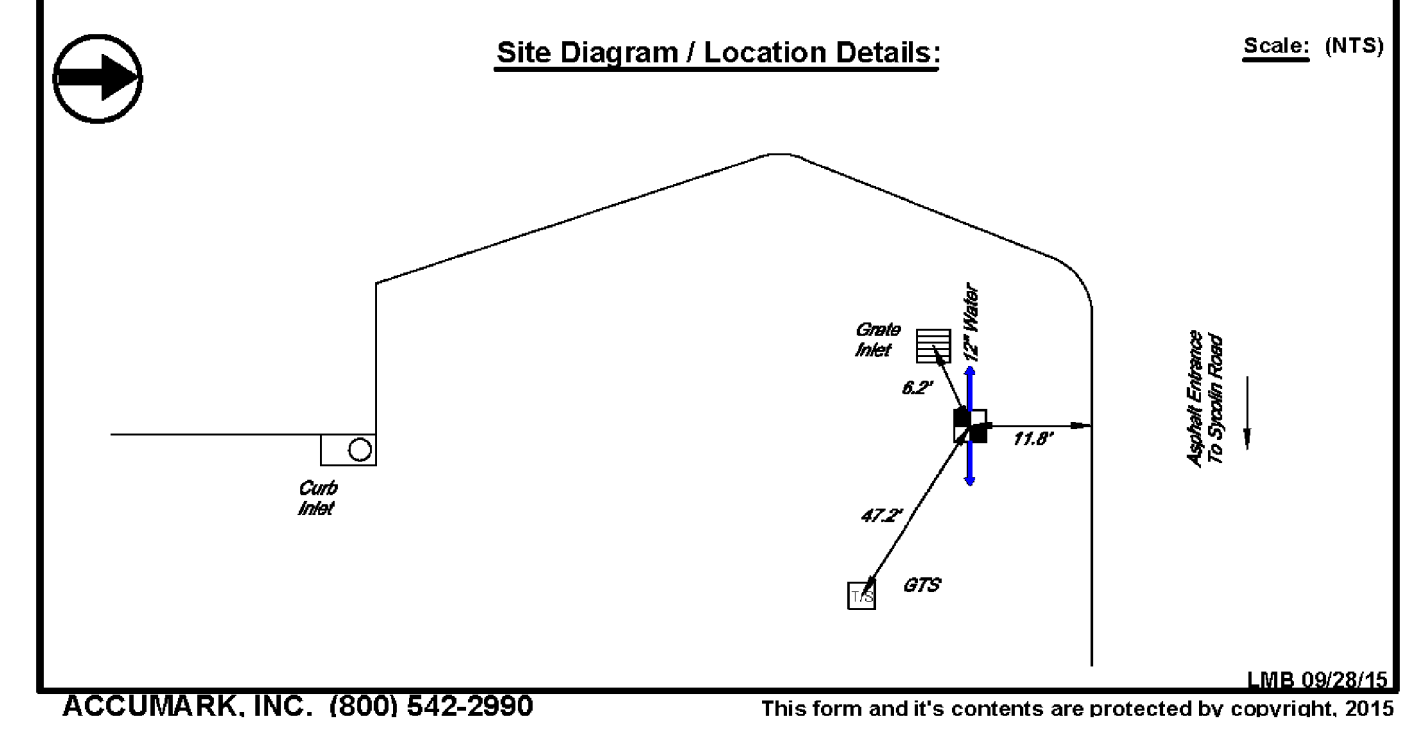
TOWN OF LEESBURG
 SUBMISSION DATE: 02/21/2018

TOWN NUMBER: TBD

PROJECT MANAGER: Anne Geller, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: Accumark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sahab Dadir, P.E., (703) 368-7373

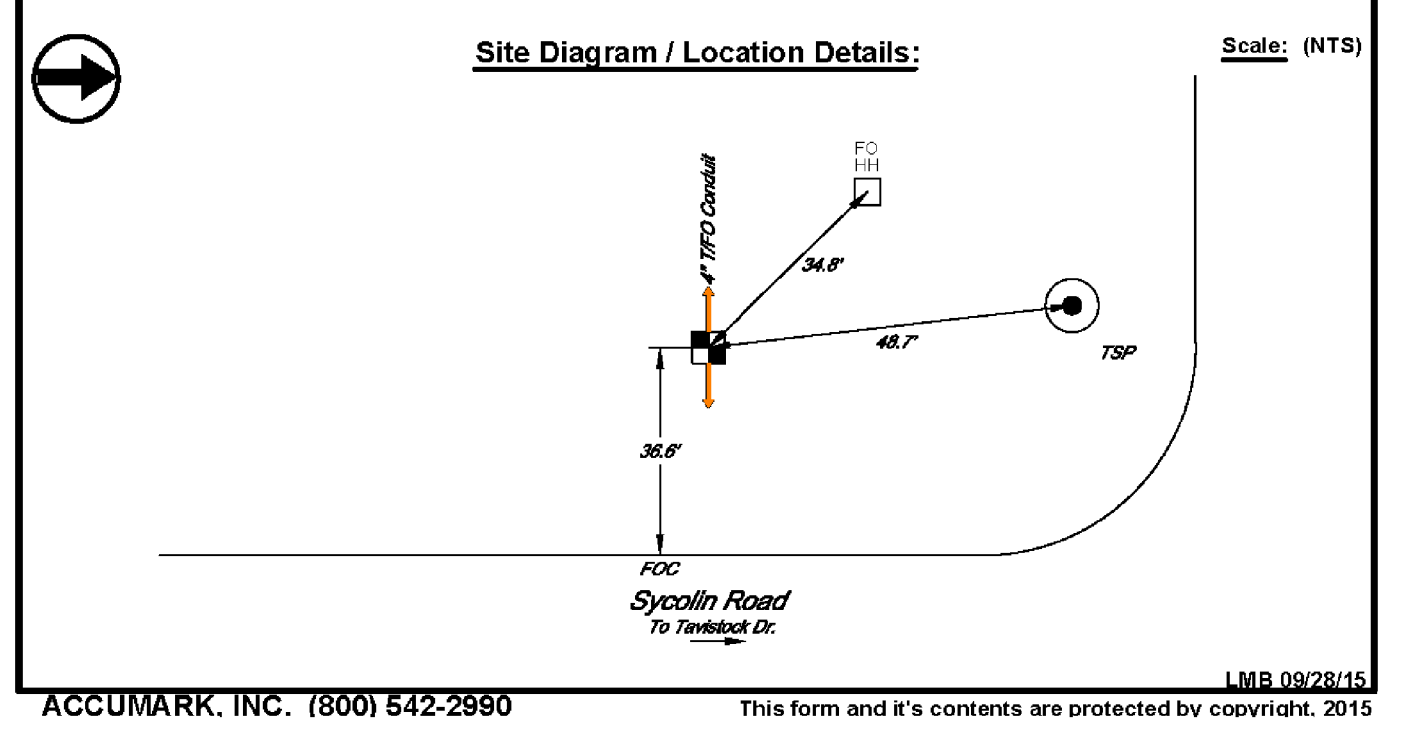
Test Hole #:	25	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	Water	Improvements	
Utility Found:	Water	Test Hole Date:	09/09/15
Material Makeup:	Cast Iron	Soil Conditions:	Rocky Clay
Size Utility Found:	12"	Utility Condition:	Fair
		Pavement Cond:	N/A (Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	373.97'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	5.58'	Accumark, Inc.	375.23' (Pt. #6)
Elevation at top of utility:	368.39'	Northing:	7076990.0313
Elevation at bottom of utility:	N/A	Easting:	11751802.5791
		Elevation:	373.97'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	5.58'	N/A	N/A
Drawn Facing:	East	Notes:	Hub & Tac set over crown of utility.



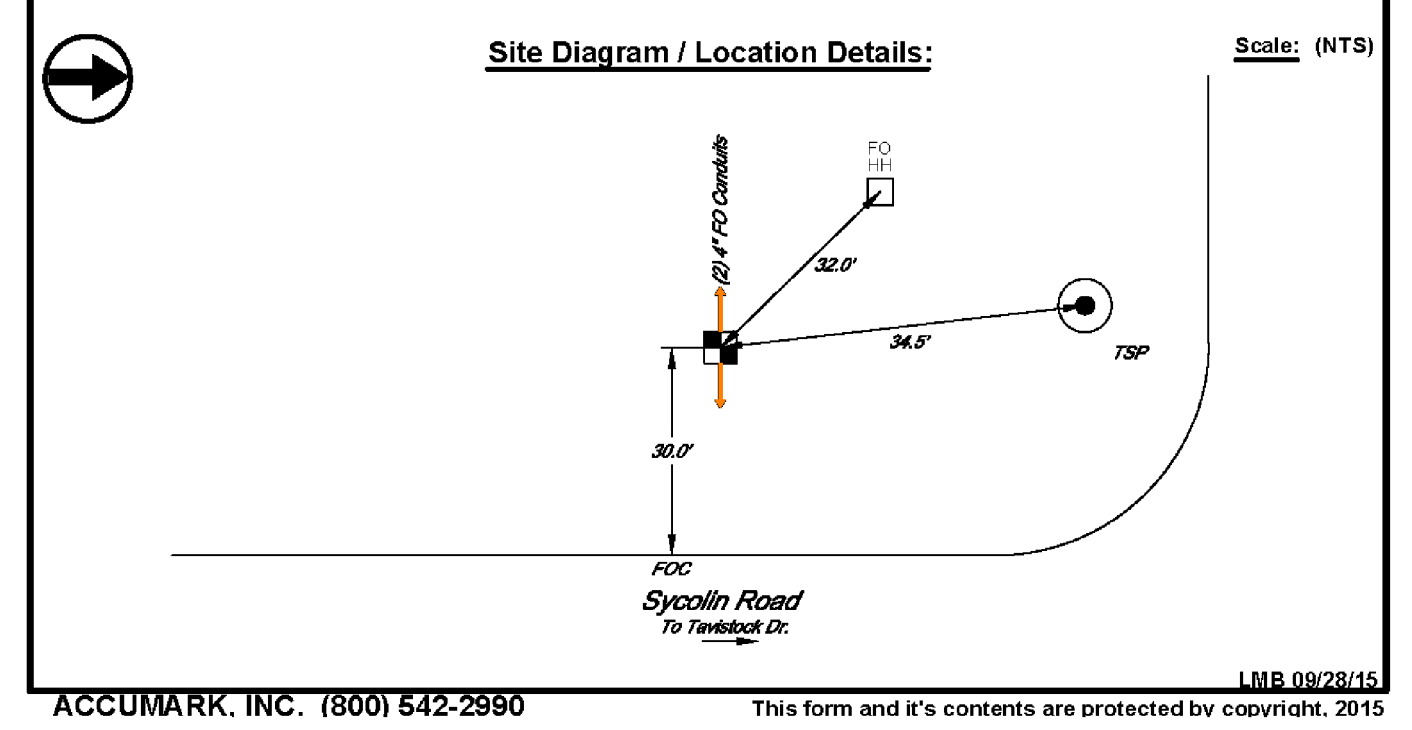
Test Hole #:	26	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	Telephone, Fiber Optic	Improvements	
Utility Found:	Tele. / FO Conduit	Test Hole Date:	08/25/15
Material Makeup:	Plastic (Orange)	Soil Conditions:	Hard Dry Rocky Clay
Size Utility Found:	4"	Utility Condition:	Good
		Pavement Cond:	N/A (Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	383.94'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	8.49'	Accumark, Inc.	383.56' (Pt. #10)
Elevation at top of utility:	375.45'	Northing:	7078571.9814
Elevation at bottom of utility:	N/A	Easting:	11751787.2168
		Elevation:	383.94'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	8.49'	N/A	N/A
Drawn Facing:	East	Notes:	Hub & Tac set over crown of utility.



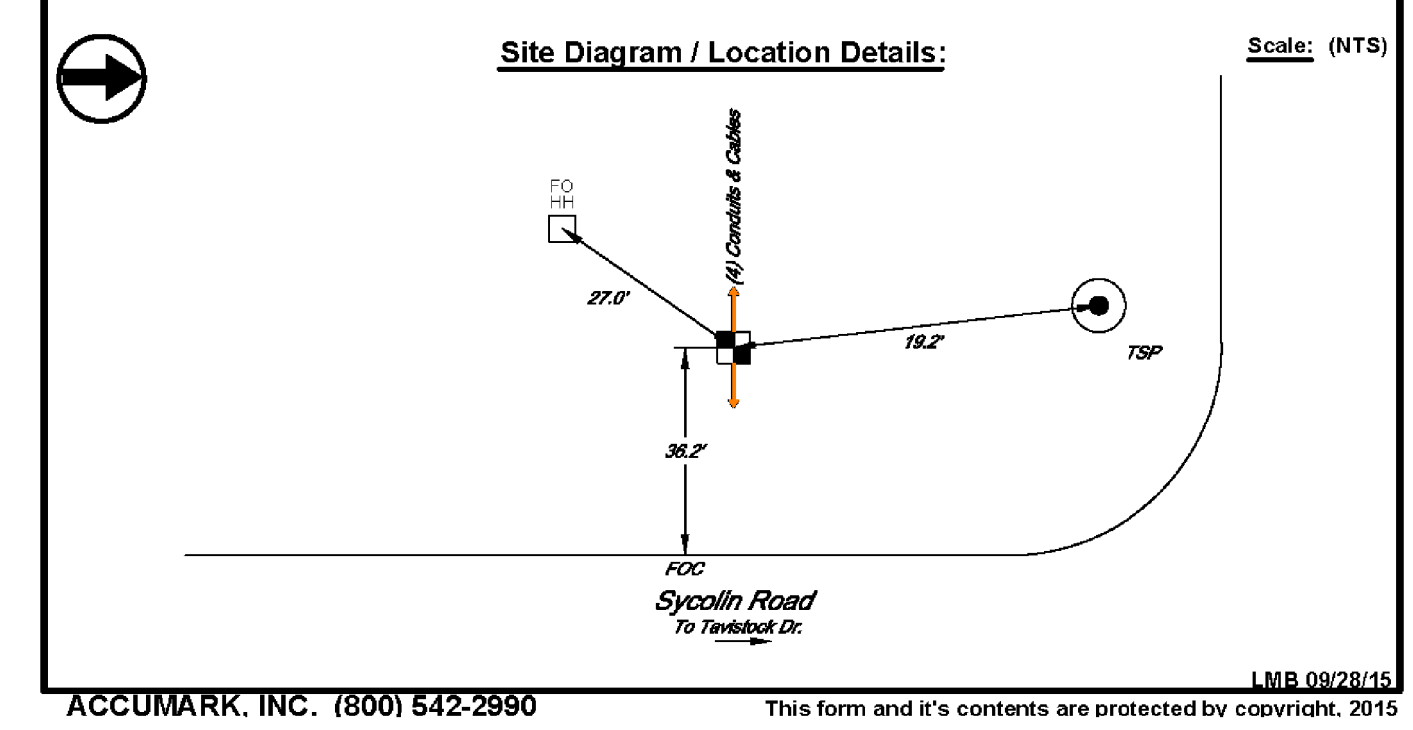
Test Hole #:	27	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	Fiber Optic	Improvements	
Utility Found:	Fiber Optic Conduit	Test Hole Date:	08/25/15
Material Makeup:	Plastic (White)	Soil Conditions:	Hard Dry Rocky Clay
Size Utility Found:	(2) 4"	Utility Condition:	Good
		Pavement Cond:	N/A (Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	382.76'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	2.88'	Accumark, Inc.	383.56' (Pt. #10)
Elevation at top of utility:	379.88'	Northing:	7078590.2152
Elevation at bottom of utility:	N/A	Easting:	11751797.4853
		Elevation:	382.76'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	2.88'	N/A	N/A
Drawn Facing:	East	Notes:	Hub & Tac set over center of utility configuration.



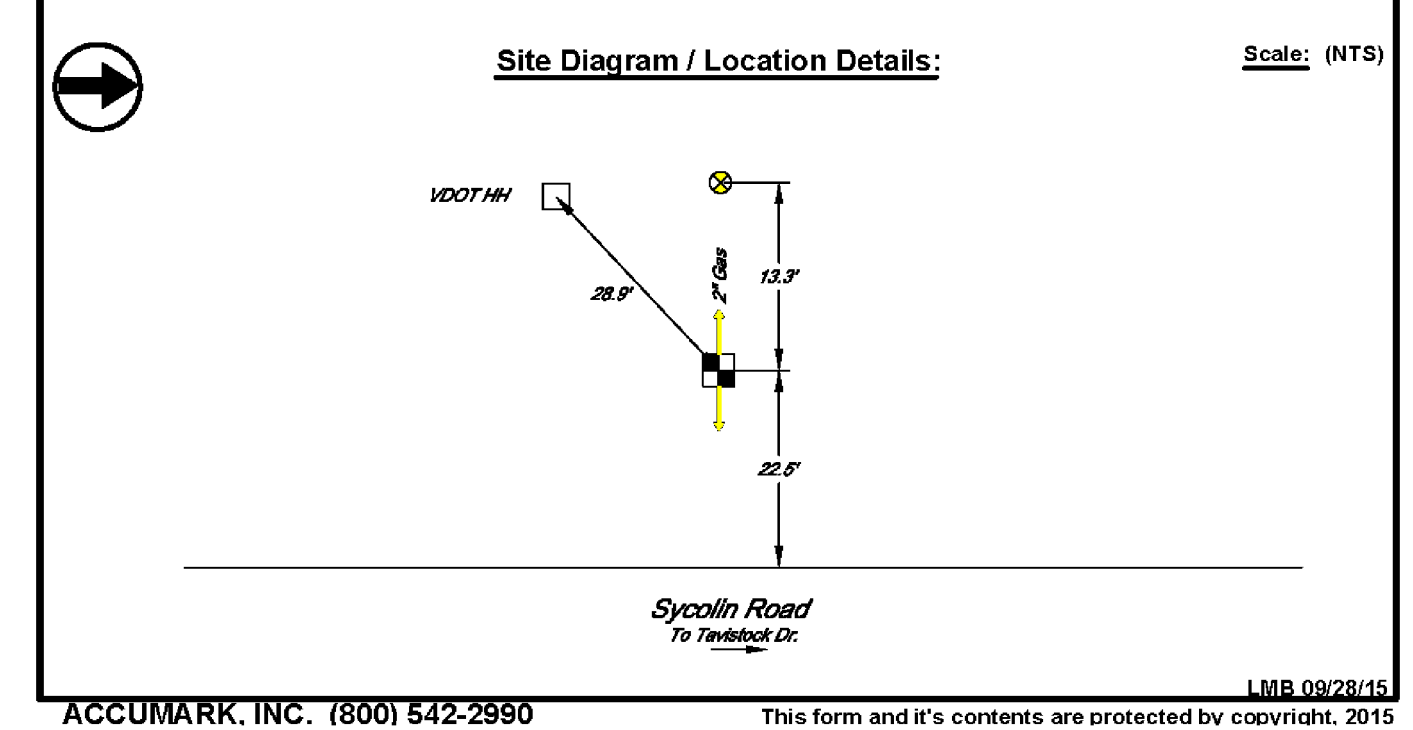
Test Hole #:	28	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	CATV	Improvements	
Utility Found:	CATV Conduit (See Notes)	Test Hole Date:	08/25/15
Material Makeup:	Plastic (Blue)	Soil Conditions:	Hard Dry Rocky Clay
Size Utility Found:	2"	Utility Condition:	Good
		Pavement Cond:	N/A (Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	382.64'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	1.82'	Accumark, Inc.	383.56' (Pt. #10)
Elevation at top of utility:	380.82'	Northing:	7078605.9520
Elevation at bottom of utility:	N/A	Easting:	11751793.4243
		Elevation:	382.64'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	1.82'	N/A	N/A
Drawn Facing:	West	Notes:	Hub & Tac set over crown of northern conduit. Other conduits found as shown on right. Crew unable to visually confirm blue conduit in any nearby structure.



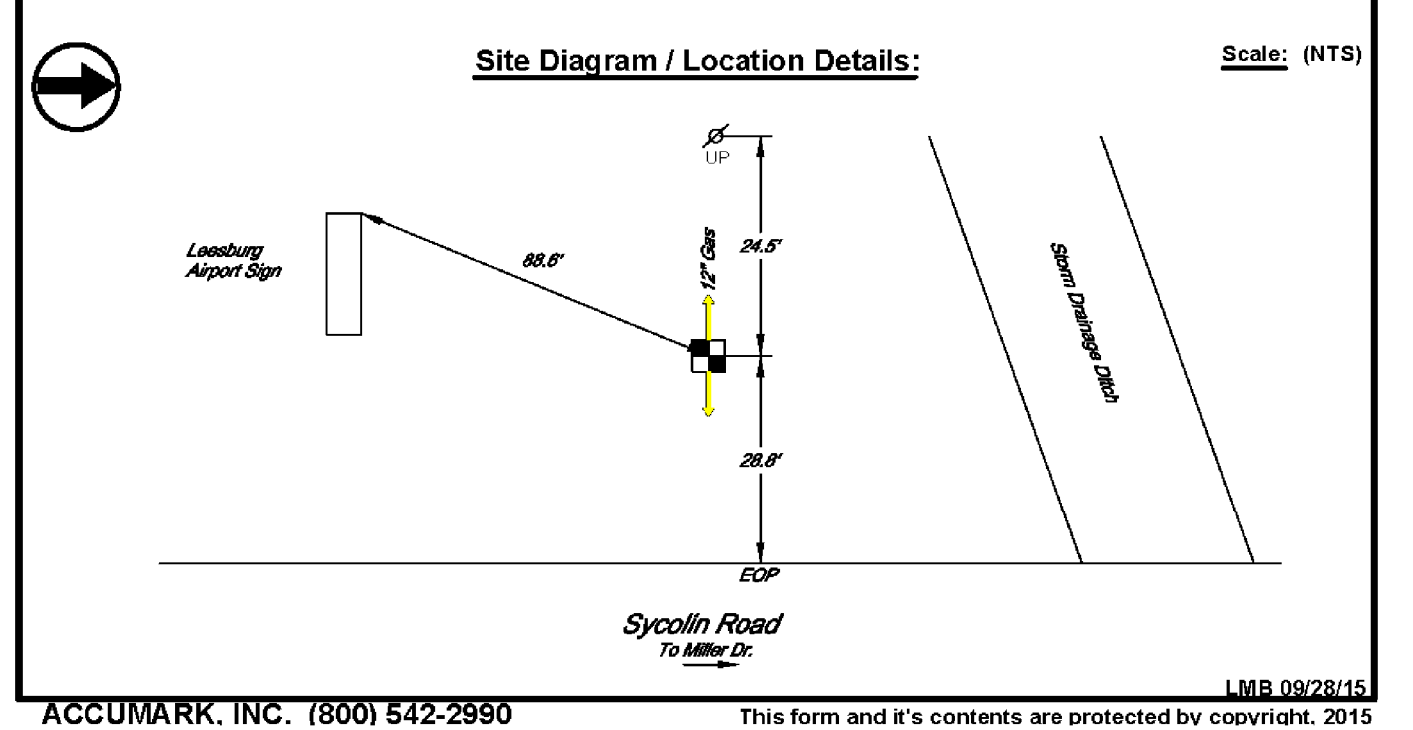
Test Hole #:	29	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	Gas	Improvements	
Utility Found:	Gas	Test Hole Date:	09/10/15
Material Makeup:	Plastic (Yellow)	Soil Conditions:	Hard Dry Rocky Clay
Size Utility Found:	2"	Utility Condition:	Good
		Pavement Cond:	N/A (Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	391.08'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	2.57'	Accumark, Inc.	387.50' (Pt. #11)
Elevation at top of utility:	388.51'	Northing:	7079138.3722
Elevation at bottom of utility:	N/A	Easting:	11751821.0062
		Elevation:	381.08'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	2.57'	N/A	N/A
Drawn Facing:	East	Notes:	Hub & Tac set over crown of utility.



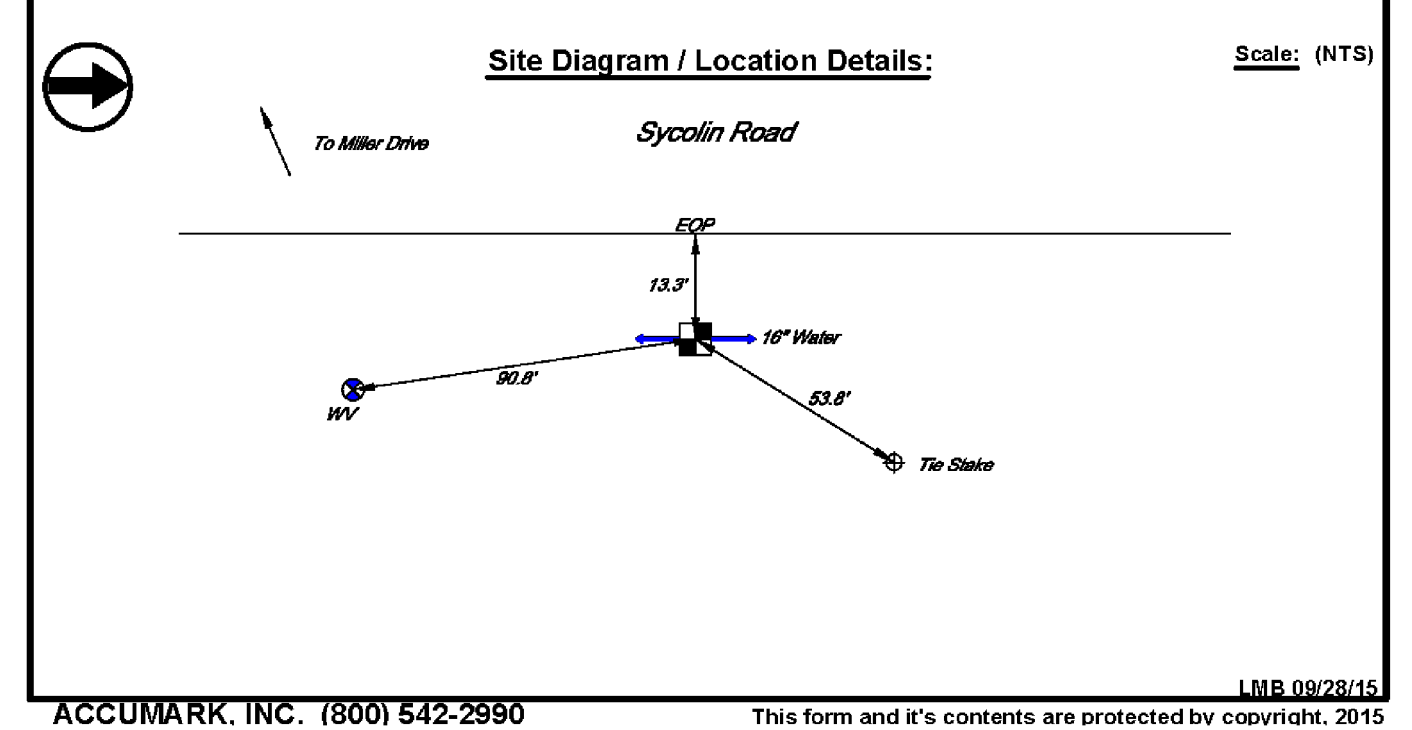
Test Hole #:	30	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	Gas	Improvements	
Utility Found:	Gas	Test Hole Date:	09/04/15
Material Makeup:	Wrapped Steel	Soil Conditions:	Rocky Dry Clay, Bricks
Size Utility Found:	12"	Utility Condition:	Fair
		Pavement Cond:	N/A (Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	368.25'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	8.33'	Accumark, Inc.	375.23' (Pt. #6)
Elevation at top of utility:	359.92'	Northing:	7077274.1956
Elevation at bottom of utility:	N/A	Easting:	11751619.7727
		Elevation:	368.25'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	8.33'	N/A	N/A
Drawn Facing:	East	Notes:	Hub & Tac set over crown of utility.



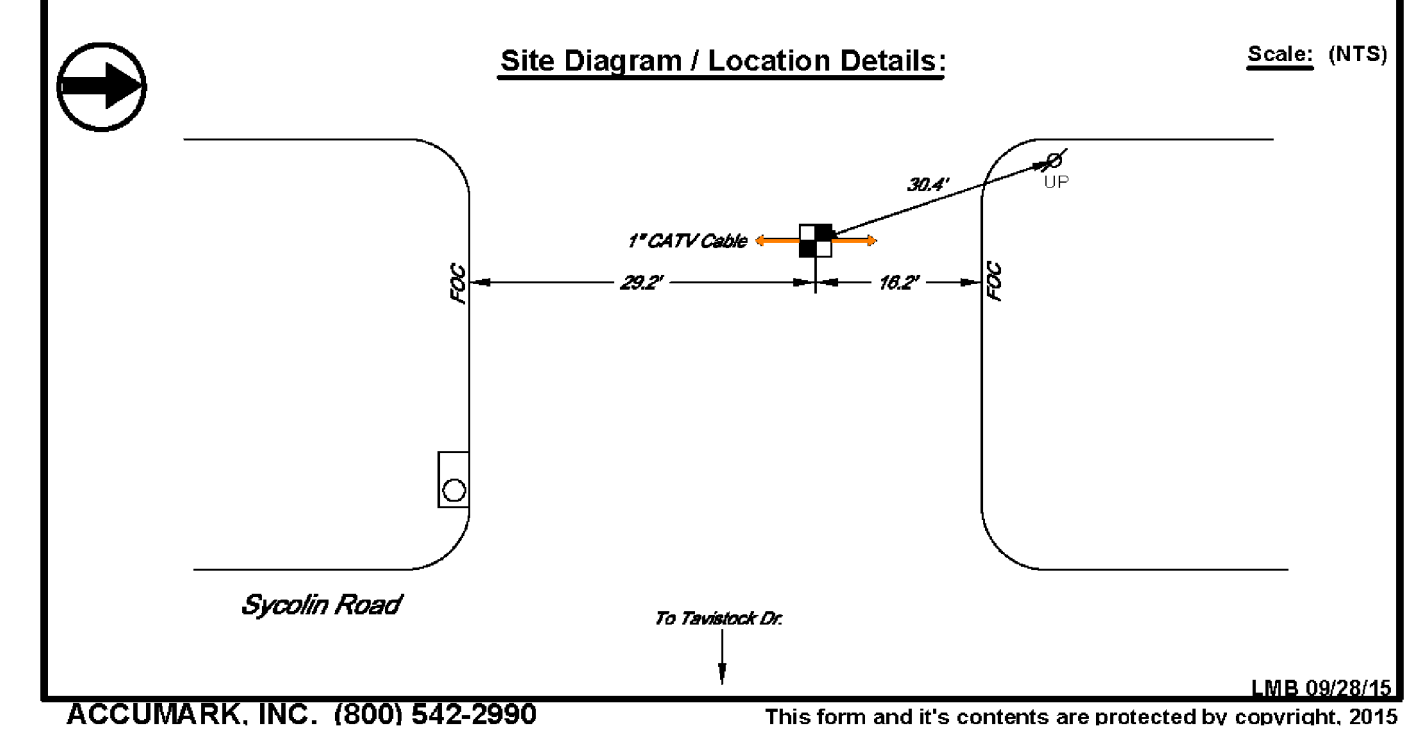
Test Hole #:	31	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	Water	Improvements	
Utility Found:	Water	Test Hole Date:	09/14/15
Material Makeup:	Wrapped Ductile Iron (Black)	Soil Conditions:	Rocky Clay
Size Utility Found:	16"	Utility Condition:	Good
		Pavement Cond:	N/A (Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	368.25'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	4.00'	Accumark, Inc.	365.10' (Pt. #8)
Elevation at top of utility:	364.25'	Northing:	7077964.3109
Elevation at bottom of utility:	N/A	Easting:	11751732.5898
		Elevation:	368.74'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	4.00'	N/A	N/A
Drawn Facing:	North	Notes:	Hub & Tac set over crown of utility.



Test Hole #:	32	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	CATV	Improvements	
Utility Found:	CATV Cable	Test Hole Date:	09/02/15
Material Makeup:	Direct Buried (Black)	Soil Conditions:	Rocky Clay
Size Utility Found:	1"	Utility Condition:	Fair
		Pavement Cond:	0.6' Asphalt

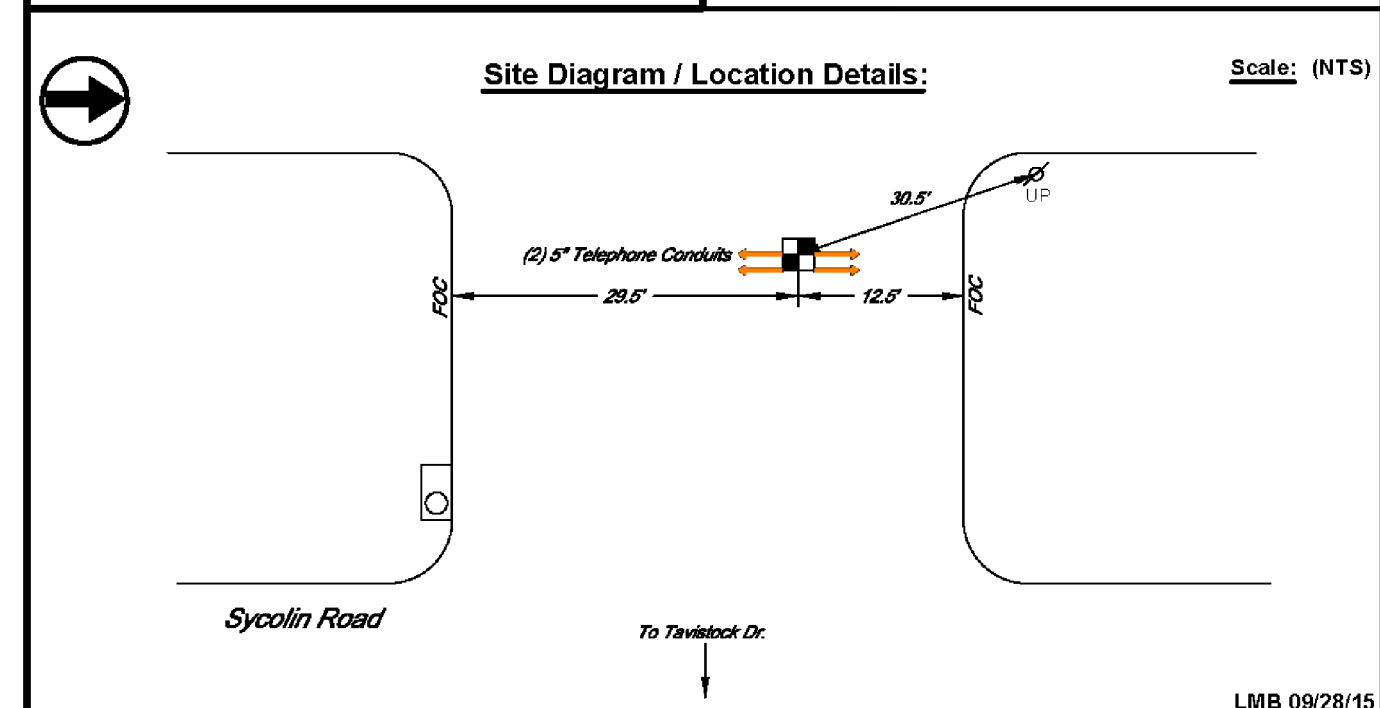
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	382.39'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	3.11'	Accumark, Inc.	383.56' (Pt. #10)
Elevation at top of utility:	379.28'	Northing:	7078674.6058
Elevation at bottom of utility:	N/A	Easting:	11751753.1884
		Elevation:	382.39'
Cover (Top):	N/A	Station:	Offset:
Cover (Bottom):	3.11'	N/A	N/A
Drawn Facing:	North	Notes:	PK set over crown of utility.



PROJECT MANAGER: Anne Gelaer, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: Accumark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sahab Qadiri, P.E., (703) 368-7373

Test Hole #:	33	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	Telephone	Improvements	
Utility Found:	Telephone Conduits	Test Hole Date:	09/02/15
Material Makeup:	Plastic	Soil Conditions:	Rocky Clay
Size Utility Found:	(2) 5"	Utility Condition:	Fair
		Pavement Cond:	Fair 0.6' Asphalt

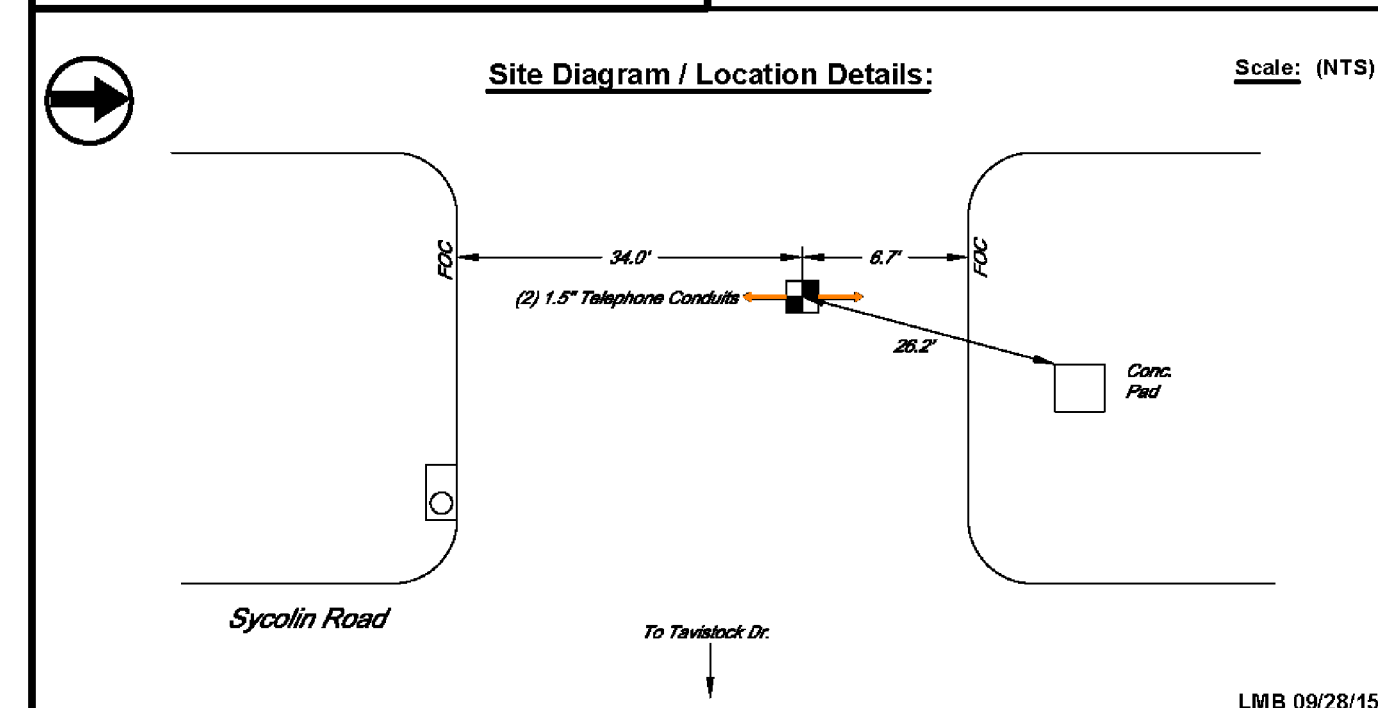
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	382.35'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	5.42'	Accumark, Inc.	383.56' (Pt. #10)
Elevation at top of utility:	376.93'	Northing:	7078676.2912
Elevation at bottom of utility:	N/A	Easting:	11751758.2331
		Elevation:	382.35'
Cover (Top):	5.42'	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	North	Notes:	PK set over crown of western utility.



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Test Hole #:	34	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	Telephone	Improvements	
Utility Found:	Telephone Conduits	Test Hole Date:	09/02/15
Material Makeup:	Plastic, Direct Buried	Soil Conditions:	Rocky Clay, Concrete
Size Utility Found:	(2) 1.5"	Utility Condition:	Fair
		Pavement Cond:	Fair 0.6' Asphalt

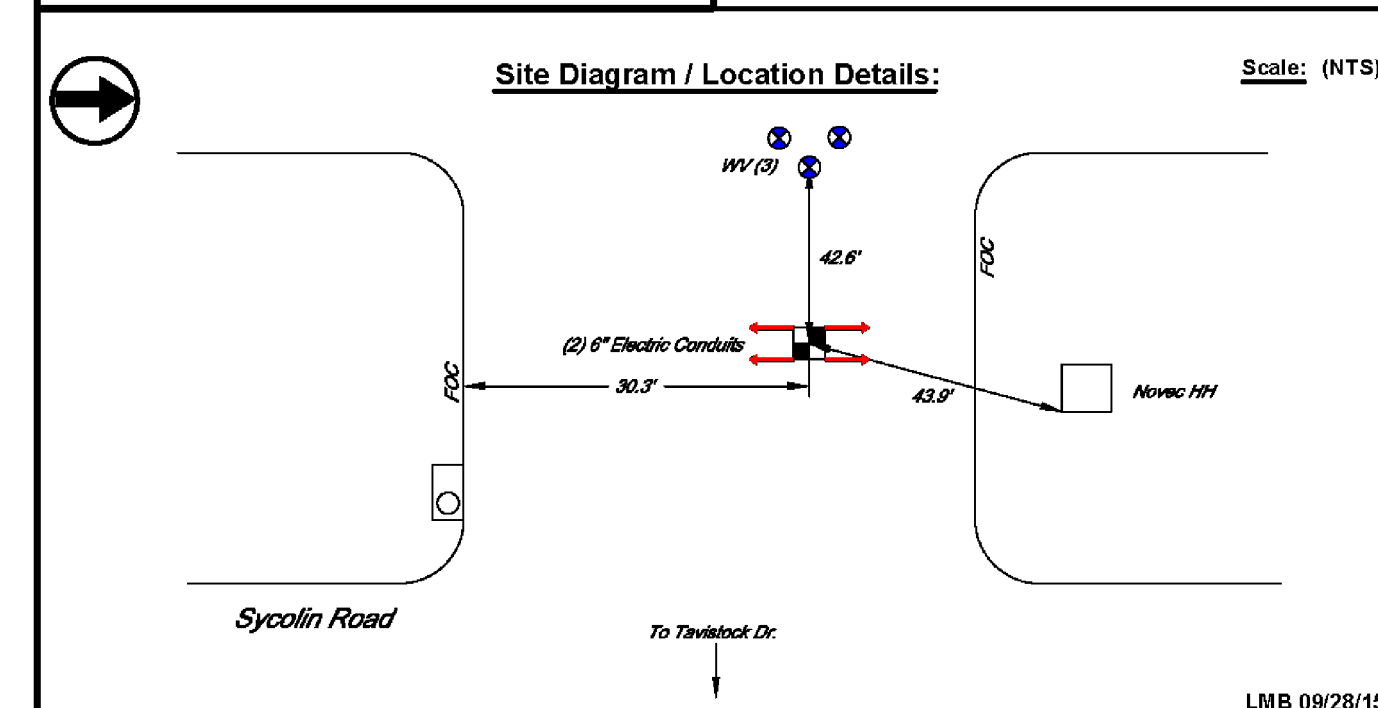
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	382.30'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	3.50'	Accumark, Inc.	383.56' (Pt. #10)
Elevation at top of utility:	378.80'	Northing:	7078680.8144
Elevation at bottom of utility:	N/A	Easting:	11751764.4013
		Elevation:	382.30'
Cover (Top):	3.50'	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	North	Notes:	PK set over crown of highest utility.



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Test Hole #:	35 & 36	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	Electric	Improvements	
Utility Found:	Electric Conduits	Test Hole Date:	09/16/15
Material Makeup:	Plastic (Gray)	Soil Conditions:	Rocky Clay
Size Utility Found:	(2) 6"	Utility Condition:	Good
		Pavement Cond:	Good 0.5' Asphalt

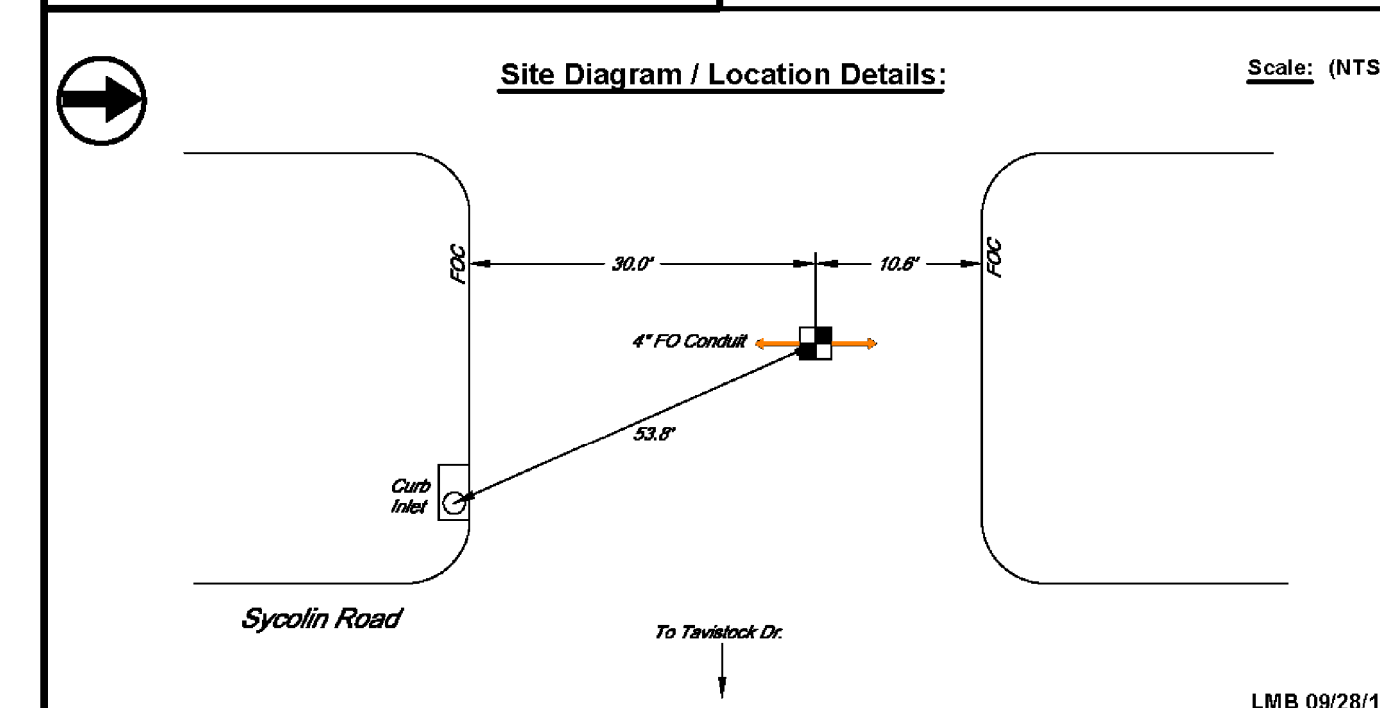
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	382.33'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	4.21'	Accumark, Inc.	383.56' (Pt. #10)
Elevation at top of utility:	378.12'	Northing:	7078676.1863
Elevation at bottom of utility:	N/A	Easting:	11751774.1656
		Elevation:	382.33'
Cover (Top):	4.21'	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	North	Notes:	PK set over center of utility configuration.



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Test Hole #:	37	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	Fiber Optic	Improvements	
Utility Found:	Fiber Optic Conduit	Test Hole Date:	09/01/15
Material Makeup:	Plastic	Soil Conditions:	Rocky Clay
Size Utility Found:	4"	Utility Condition:	Fair
		Pavement Cond:	Fair 0.6' Asphalt

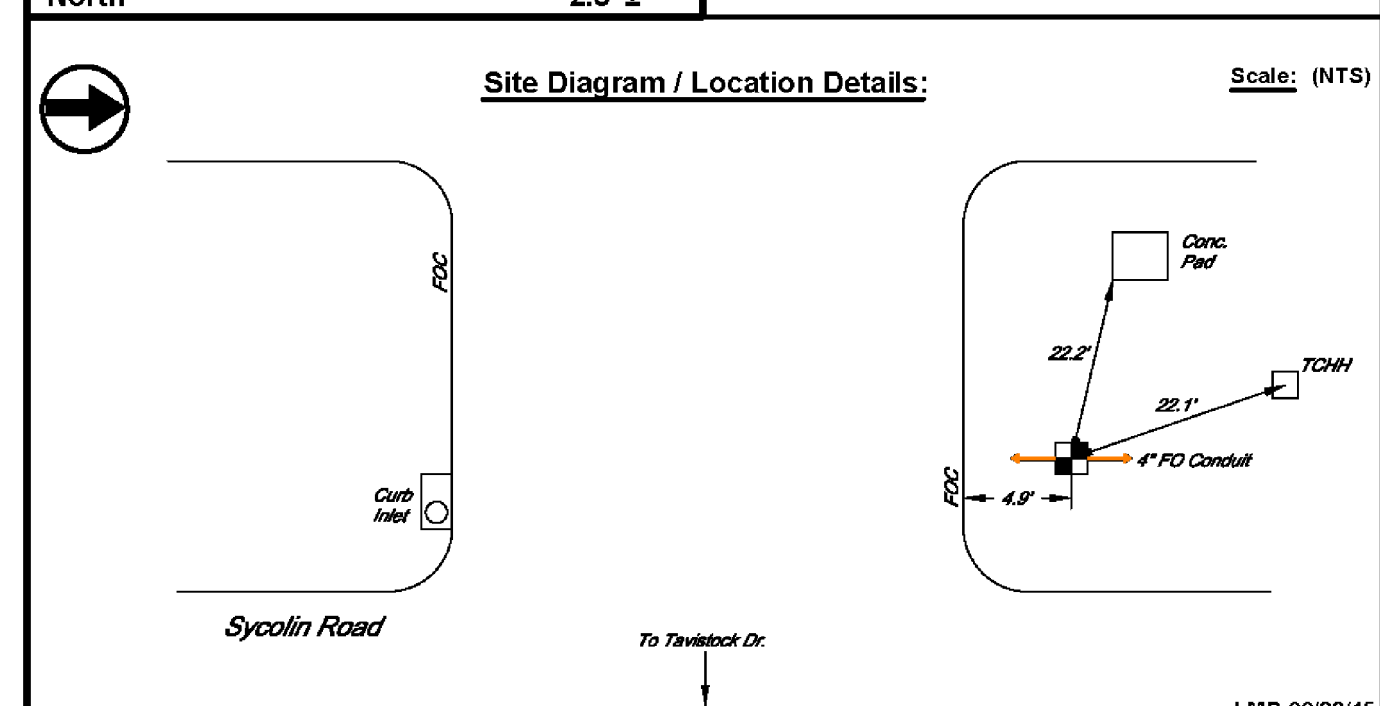
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	382.31'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	3.98'	Accumark, Inc.	383.56' (Pt. #10)
Elevation at top of utility:	378.33'	Northing:	7078674.5150
Elevation at bottom of utility:	N/A	Easting:	11751782.6578
		Elevation:	382.31'
Cover (Top):	3.98'	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	North	Notes:	PK set over crown of utility.



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Test Hole #:	38	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	Fiber Optic	Improvements	
Utility Found:	Fiber Optic Conduit	Test Hole Date:	09/01/15
Material Makeup:	Plastic	Soil Conditions:	Dry Rocky Clay
Size Utility Found:	2"	Utility Condition:	Fair
		Pavement Cond:	N/A (Grass)

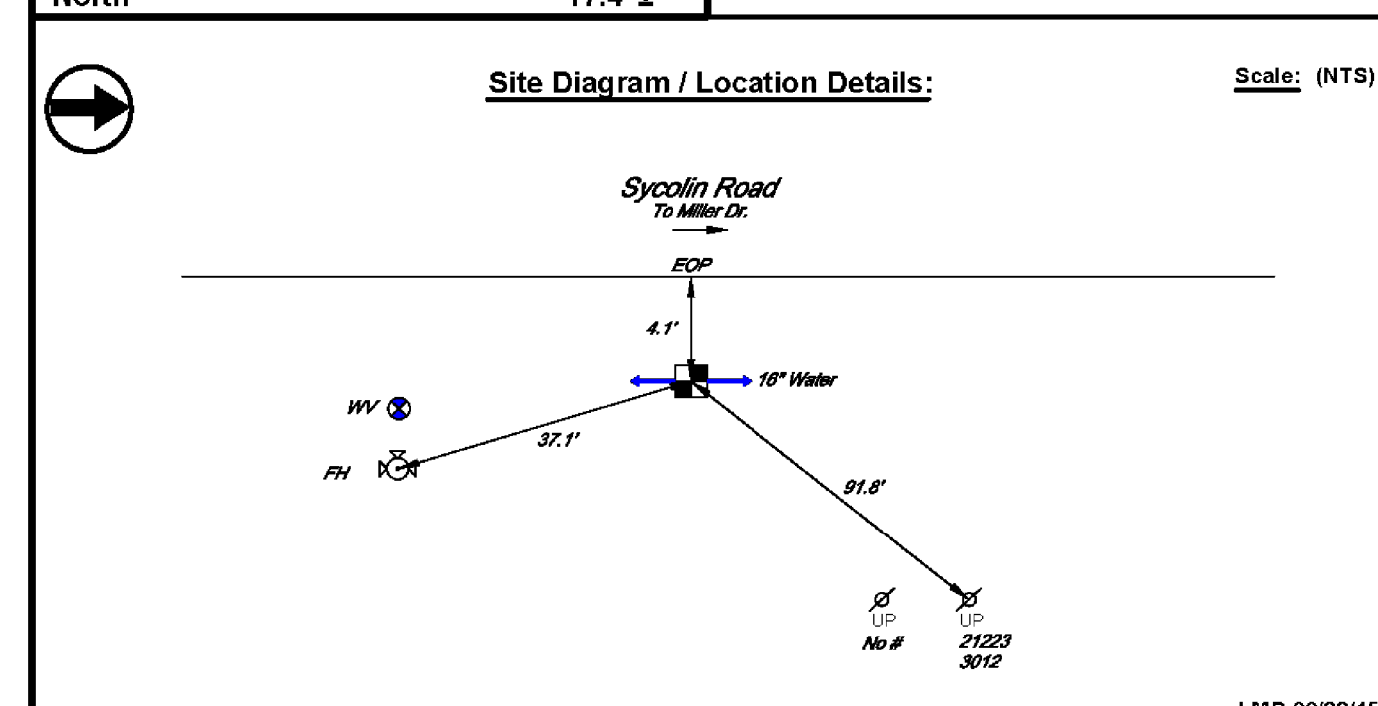
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	382.31'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	3.26'	Accumark, Inc.	383.56' (Pt. #10)
Elevation at top of utility:	379.05'	Northing:	7078688.9840
Elevation at bottom of utility:	N/A	Easting:	11751793.5188
		Elevation:	382.31'
Cover (Top):	3.26'	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	North	Notes:	Hub & Tack set over crown of utility.



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Test Hole #:	39	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	Water	Improvements	
Utility Found:	Water	Test Hole Date:	08/25/15
Material Makeup:	Ductile Iron (Black)	Soil Conditions:	Dry Rocky Clay
Size Utility Found:	16"	Utility Condition:	Good
		Pavement Cond:	N/A (Gravel)

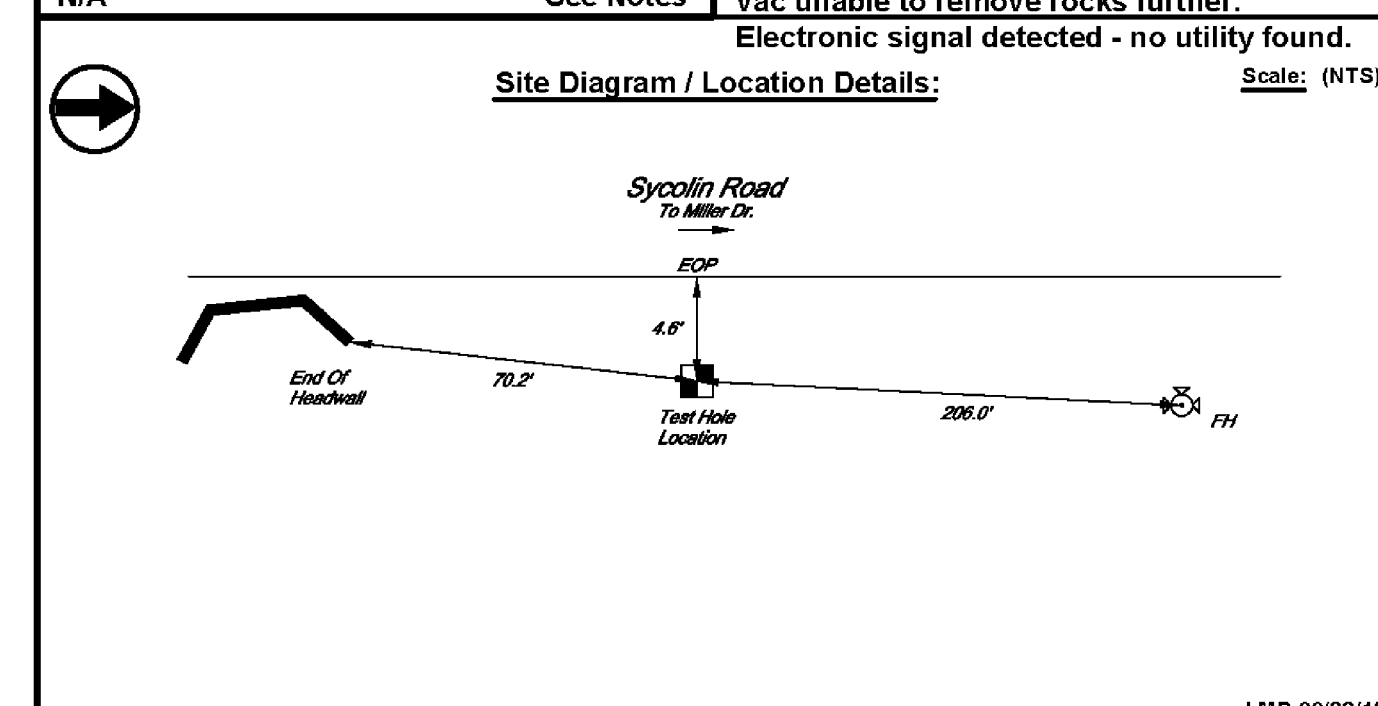
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	365.08'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	5.40'	Accumark, Inc.	375.23' (Pt. #6)
Elevation at top of utility:	359.68'	Northing:	7077289.2089
Elevation at bottom of utility:	N/A	Easting:	11751685.0903
		Elevation:	365.08'
Cover (Top):	5.40'	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	North	Notes:	Nail set over crown of utility. Bell joint found in test hole.



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Test Hole #:	40	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	Water	Improvements	
Utility Found:	See Notes	Test Hole Date:	08/24/15
Material Makeup:	See Notes	Soil Conditions:	Dry Rocky Clay
Size Utility Found:	See Notes	Utility Condition:	See Notes
		Pavement Cond:	N/A (Gravel)

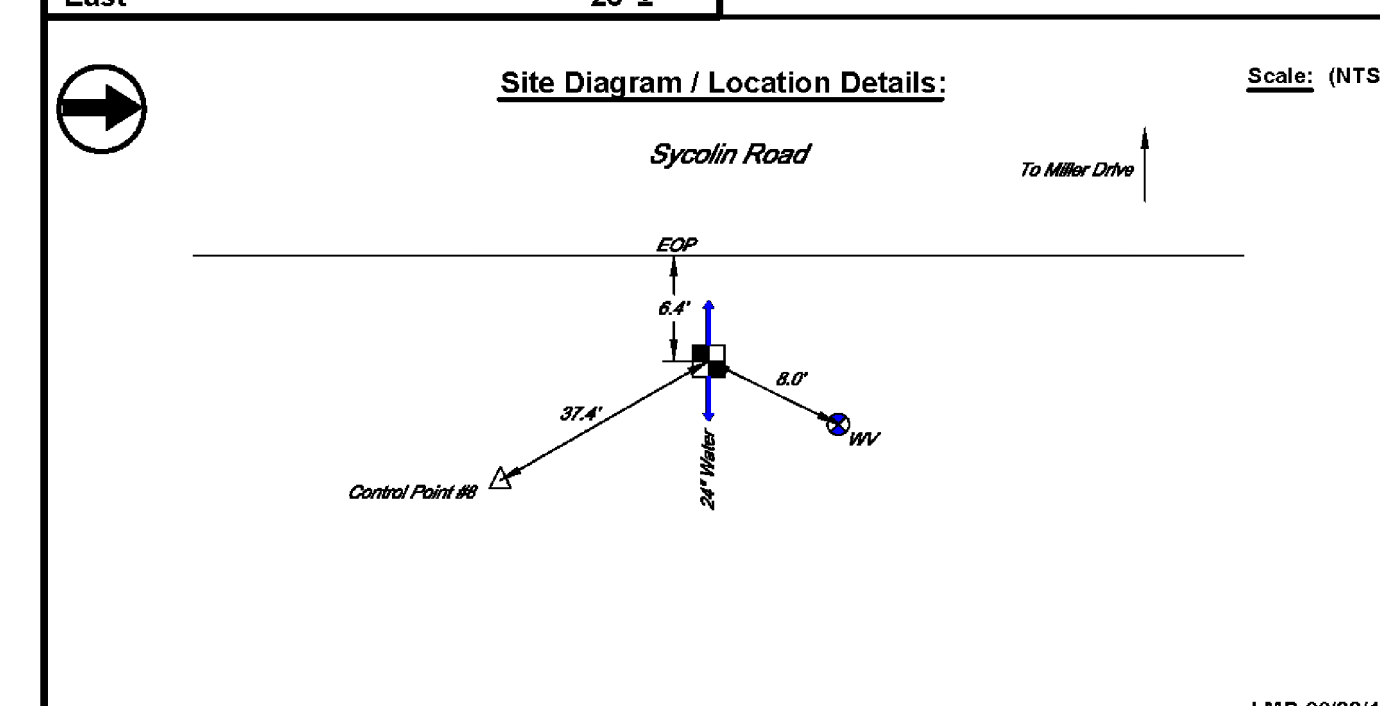
Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	361.41'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	See Notes	Accumark, Inc.	364.80' (Pt. #7)
Elevation at top of utility:	N/A	Northing:	7077439.1565
Elevation at bottom of utility:	N/A	Easting:	11751675.7082
		Elevation:	361.41'
Cover (Top):	See Notes	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	North	Notes:	Nail set over center of test hole. Crew encountered very rocky conditions - unable to probe effectively. Excavation ended at 8'±, vac unable to remove rocks further. Electronic signal detected - no utility found.



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Test Hole #:	41	Project Numbers:	NV14-137
Project Name:	Sycolin Road Fiber	Project Location:	Sycolin Road
Requested By:	Rinker Design Associates	Utility Owner:	Leesburg, Virginia
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure
Utility Requested:	Water	Improvements	
Utility Found:	Water	Test Hole Date:	09/17/15
Material Makeup:	Cast Iron	Soil Conditions:	Dry Rocky Clay
Size Utility Found:	24"	Utility Condition:	Good
		Pavement Cond:	N/A (Gravel)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk:	365.54'	Located By:	Benchmark Elevation
Existing grade depth @ top of utility:	6.70'	Accumark, Inc.	365.10' (Pt. #8)
Elevation at top of utility:	358.84'	Northing:	7077872.8924
Elevation at bottom of utility:	N/A	Easting:	11751704.1988
		Elevation:	365.54'
Cover (Top):	6.70'	Station:	Offset:
Cover (Bottom):	N/A	N/A	N/A
Drawn Facing:	East	Notes:	Hub & Tack set over crown of utility.



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ENGINEER: Rinker Design Associates, P.C.
 Engineering - Surveying - Land Planning - Transportation - Environmental Services
 6006 Decoye Blvd, Suite 200, Manassas Virginia 20108 on the web @ www.rinker.com
 Telephone: (703) 368-7373 Fax: (703) 368-7343
 Email: info@rinker.com To Make Your Vision Reality

PROJECT NAME: SYCOLIN ROAD WIDENING PHASE IV
FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.
UNDERGROUND UTILITIES
TEST HOLE DATA

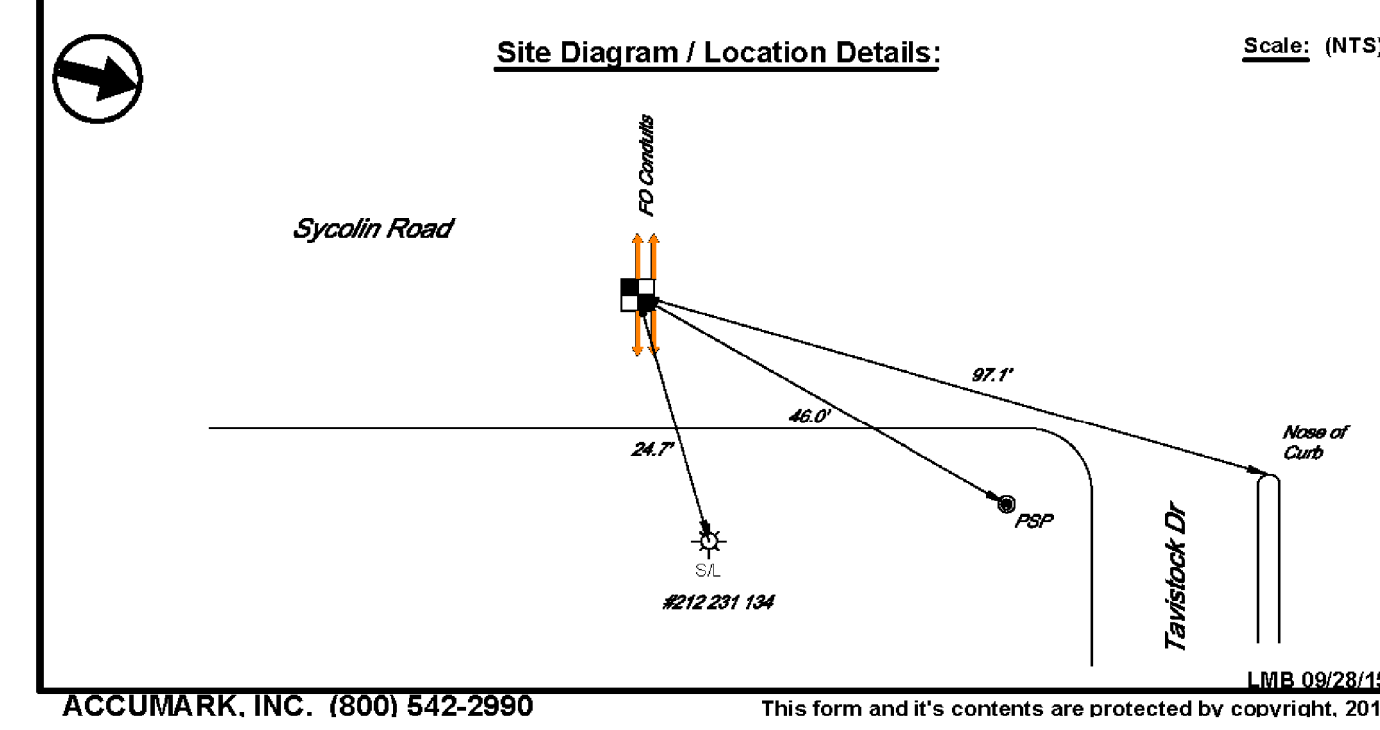
Town of Leesburg
 Loudoun County, Virginia
 SUBMISSION DATE: 02/21/2018

ASSOCIATED PLAN NUMBER: TLCl-2016-0002

VDOT PROJ. NO. U000-253-312

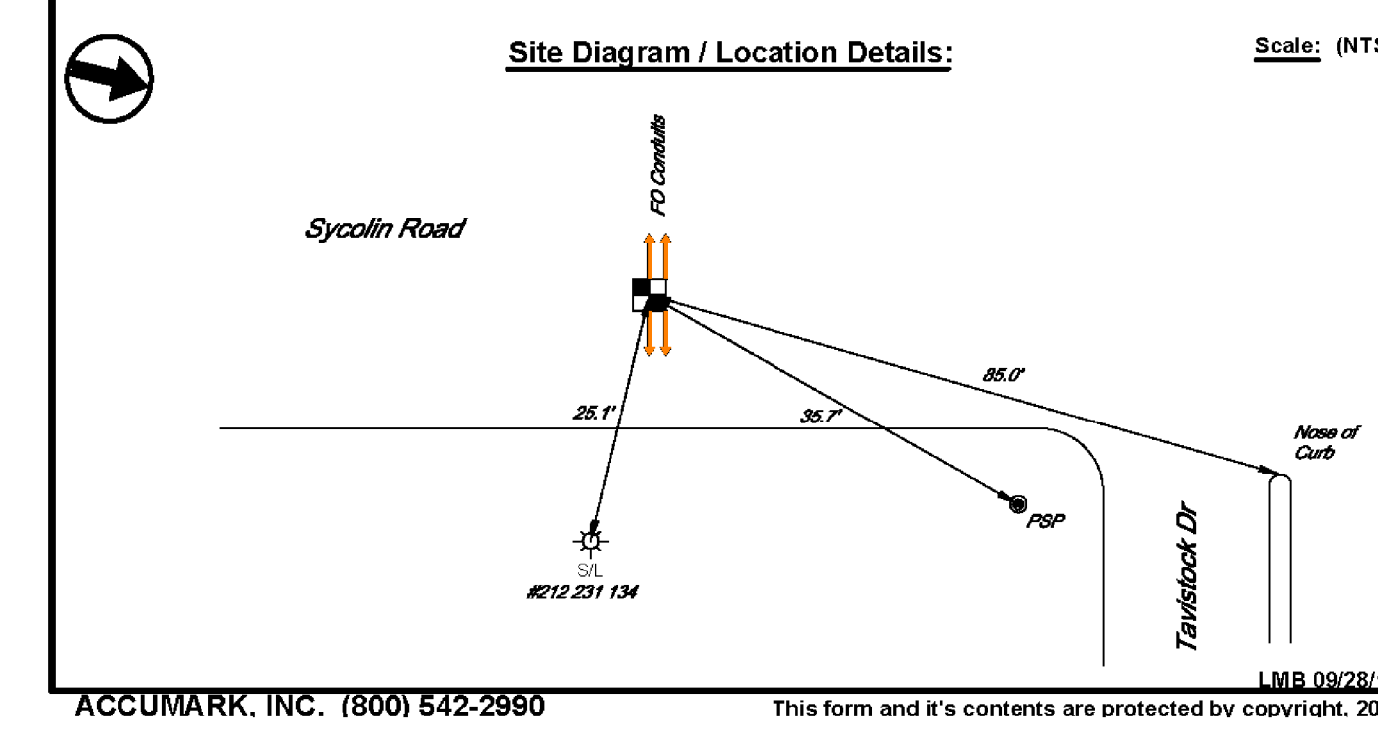
TOWN NUMBER: TBD

Test Hole #: 42	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: Leesburg, Virginia
Point of Contact: Mark Gunn	Work Type: Infrastructure
Utility Requested: Fiber Optic	Test Hole Date: 08/26/15
Utility Found: Fiber Optic Conduits	Soil Conditions: Hard Sticky Rocky Clay
Material Makeup: Plastic (Orange)	Utility Condition: Good
Size Utility Found: 4"	Pavement Cond: Good
Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 381.97'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 4.02'	Accumark, Inc. 383.56' (Pt. #10)
Elevation at top of utility: 377.95'	Northing: Easting: Elevation:
Elevation at bottom of utility: N/A	7078562.4085 11751869.0398 381.97'
Cover (Top): 4.02'	Station: N/A
Cover (Bottom): N/A	Offset: N/A
Drawn Facing: West	Notes:
	PK set over crown of 4" conduit, 1.5' conduit
	0.24' north of PK, depth of 3.98'.



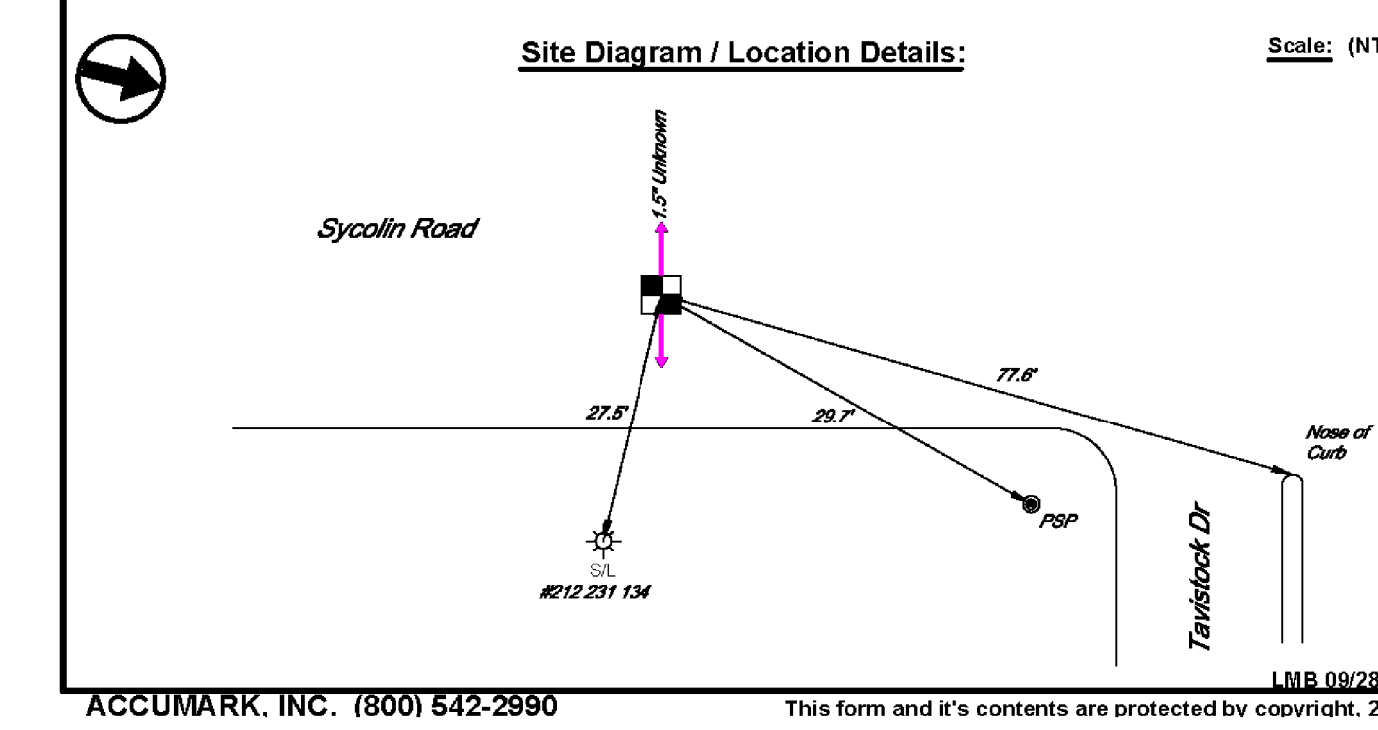
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Test Hole #: 43	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: Leesburg, Virginia
Point of Contact: Mark Gunn	Work Type: Infrastructure
Utility Requested: Fiber Optic	Test Hole Date: 08/26/15
Utility Found: Fiber Optic Conduits	Soil Conditions: Hard Dry Rocky Clay
Material Makeup: Plastic (White)	Utility Condition: Good
Size Utility Found: (2) 4"	Pavement Cond: Good
Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 382.15'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 4.10'	Accumark, Inc. 383.56' (Pt. #10)
Elevation at top of utility: 378.05'	Northing: Easting: Elevation:
Elevation at bottom of utility: N/A	7078574.5147 11751870.9537 382.15'
Cover (Top): 4.10'	Station: N/A
Cover (Bottom): N/A	Offset: N/A
Drawn Facing: West	Notes:
	PK set over crown of southern conduit.
	Northern conduit 1.37' north of PK, depth of 4.17'.



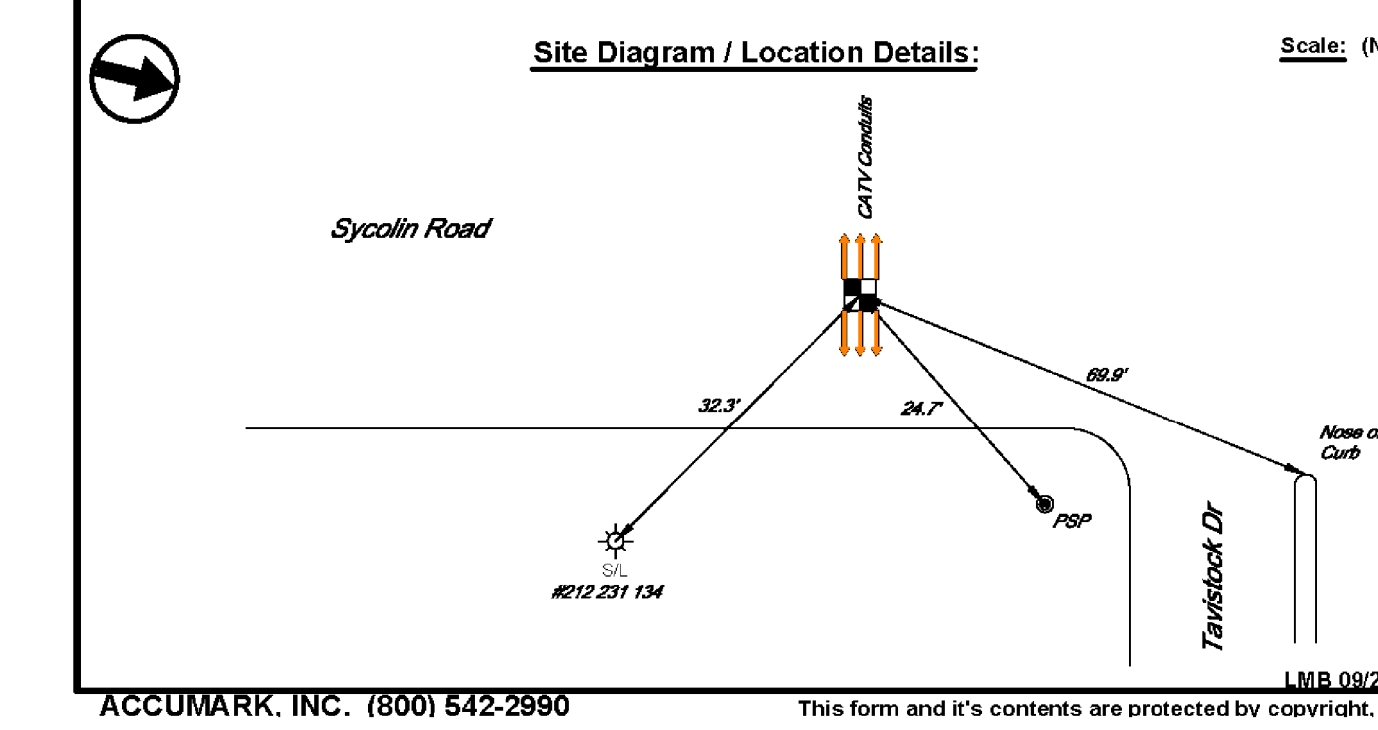
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Test Hole #: 44	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: Unknown
Point of Contact: Mark Gunn	Work Type: Infrastructure
Utility Requested: Unknown	Test Hole Date: 08/26/15
Utility Found: Unknown	Soil Conditions: Hard Dry Rocky Clay
Material Makeup: Steel	Utility Condition: Fair
Size Utility Found: 1.5"	Pavement Cond: Good
Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 382.28'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 2.64'	Accumark, Inc. 383.56' (Pt. #10)
Elevation at top of utility: 379.64'	Northing: Easting: Elevation:
Elevation at bottom of utility: N/A	7078581.8542 11751872.6890 382.28'
Cover (Top): 2.64'	Station: N/A
Cover (Bottom): N/A	Offset: N/A
Drawn Facing: West	Notes:
	PK set over crown of utility. Crew unable to
	obtain electronic signal beyond original EOI
	locations.



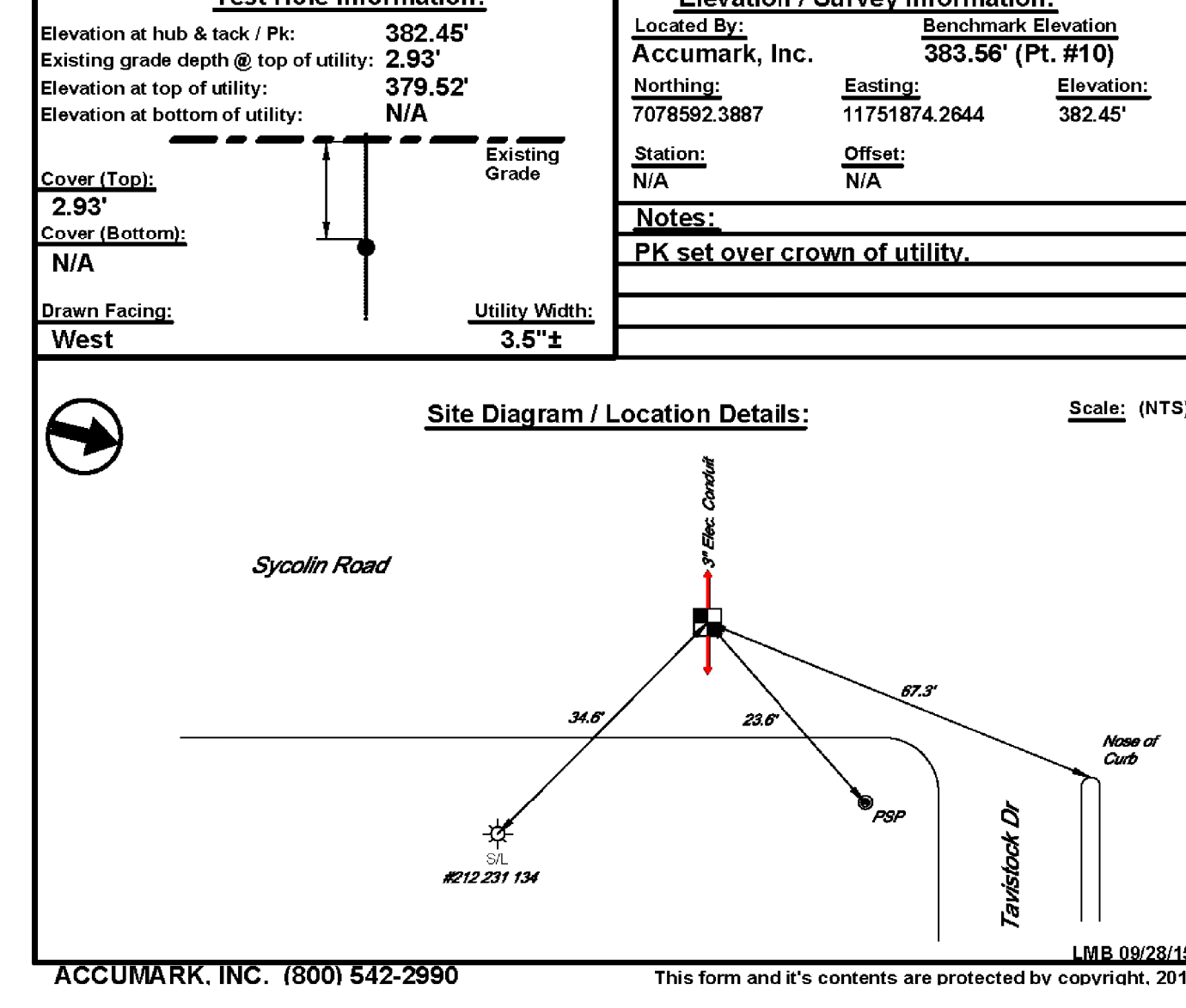
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Test Hole #: 45	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: LIT
Point of Contact: Mark Gunn	Work Type: Infrastructure
Utility Requested: CATV	Test Hole Date: 08/26/15
Utility Found: CATV Conduits	Soil Conditions: Dry Rocky Clay
Material Makeup: Plastic (Blue)	Utility Condition: Good
Size Utility Found: (2) 2"	Pavement Cond: Good
Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 382.36'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 2.94'	Accumark, Inc. 383.56' (Pt. #10)
Elevation at top of utility: 379.42'	Northing: Easting: Elevation:
Elevation at bottom of utility: N/A	7078588.6799 11751874.0095 382.36'
Cover (Top): 2.94'	Station: N/A
Cover (Bottom): N/A	Offset: N/A
Drawn Facing: West	Notes:
	PK set over crown of center conduit. CATV
	cable found in TH#28 believed to be in 4"
	conduit in this TH.



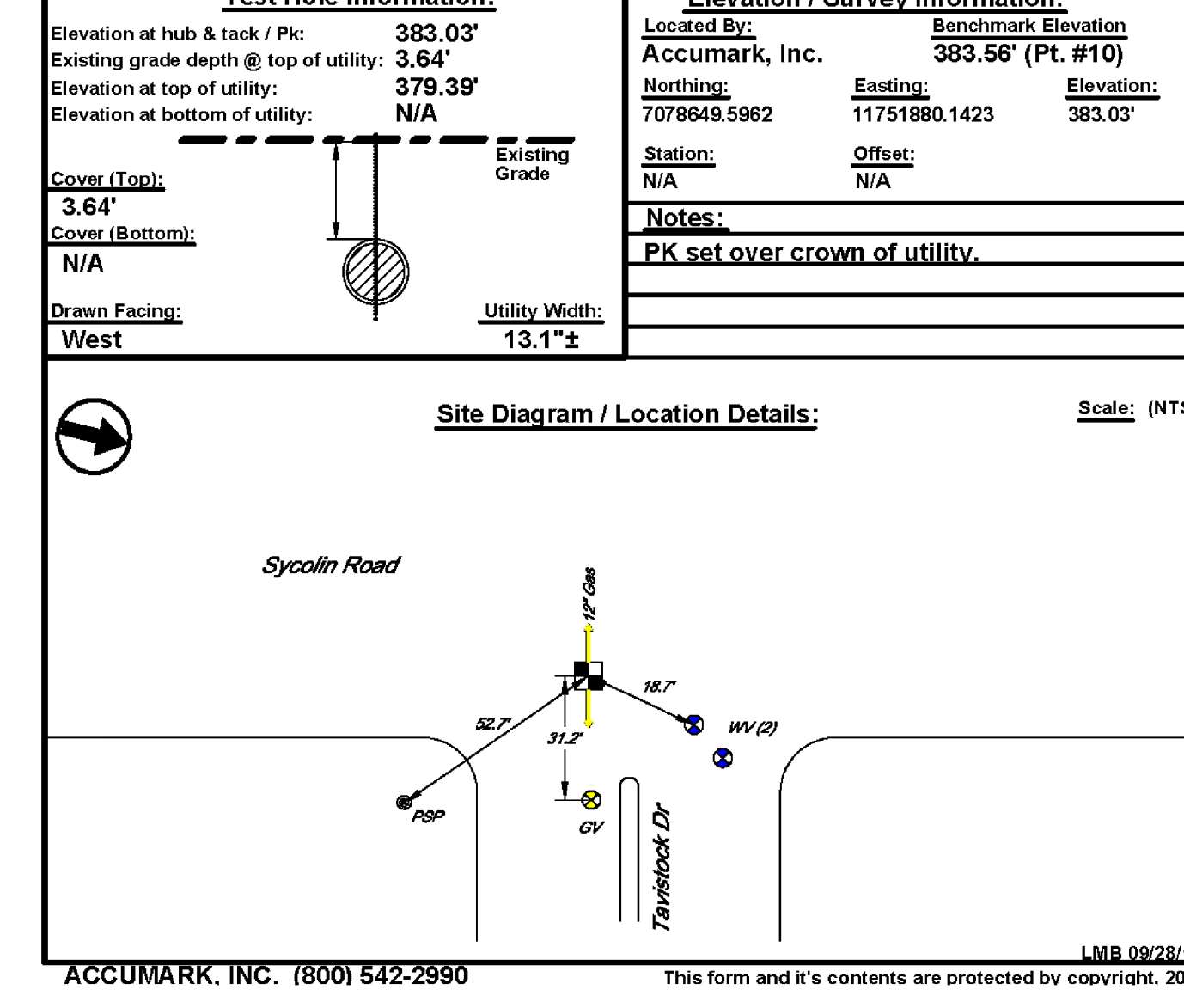
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Test Hole #: 46	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: DOM
Point of Contact: Mark Gunn	Work Type: Infrastructure
Utility Requested: Electric	Test Hole Date: 08/28/15
Utility Found: Electric	Soil Conditions: Hard Rocky Clay
Material Makeup: Plastic (Black)	Utility Condition: Good
Size Utility Found: 3"	Pavement Cond: Good
Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 382.45'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 2.93'	Accumark, Inc. 383.56' (Pt. #10)
Elevation at top of utility: 379.52'	Northing: Easting: Elevation:
Elevation at bottom of utility: N/A	7078592.3887 11751874.2644 382.45'
Cover (Top): 2.93'	Station: N/A
Cover (Bottom): N/A	Offset: N/A
Drawn Facing: West	Notes:
	PK set over crown of utility.



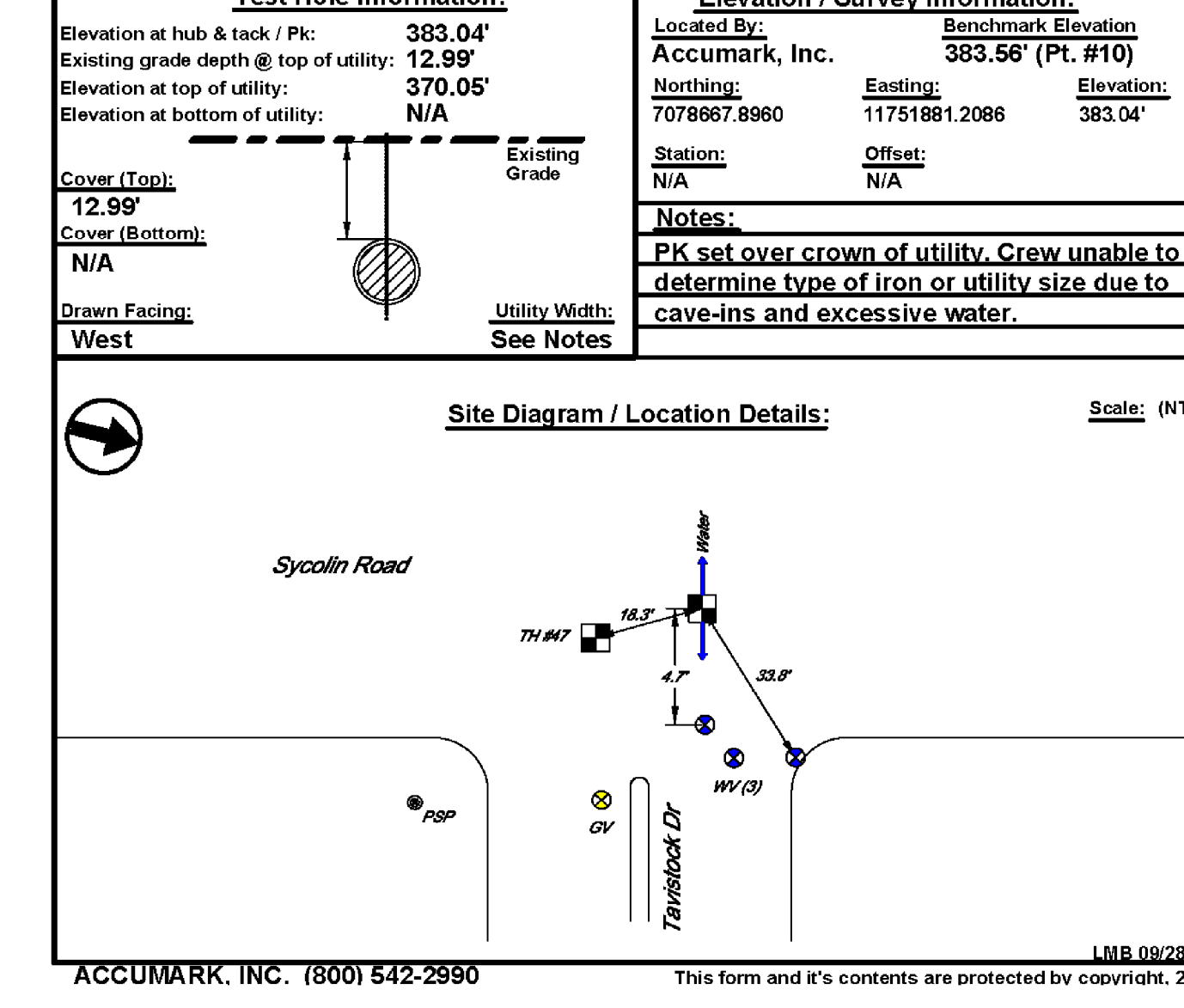
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Test Hole #: 47	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: WGL
Point of Contact: Mark Gunn	Work Type: Infrastructure
Utility Requested: Gas	Test Hole Date: 09/16/15
Utility Found: Gas	Soil Conditions: Rocky Clay
Material Makeup: Coated Steel	Utility Condition: Good
Size Utility Found: 12"	Pavement Cond: Good
Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 383.03'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 3.64'	Accumark, Inc. 383.56' (Pt. #10)
Elevation at top of utility: 379.39'	Northing: Easting: Elevation:
Elevation at bottom of utility: N/A	7078649.5962 11751880.1423 383.03'
Cover (Top): 3.64'	Station: N/A
Cover (Bottom): N/A	Offset: N/A
Drawn Facing: West	Notes:
	PK set over crown of utility.



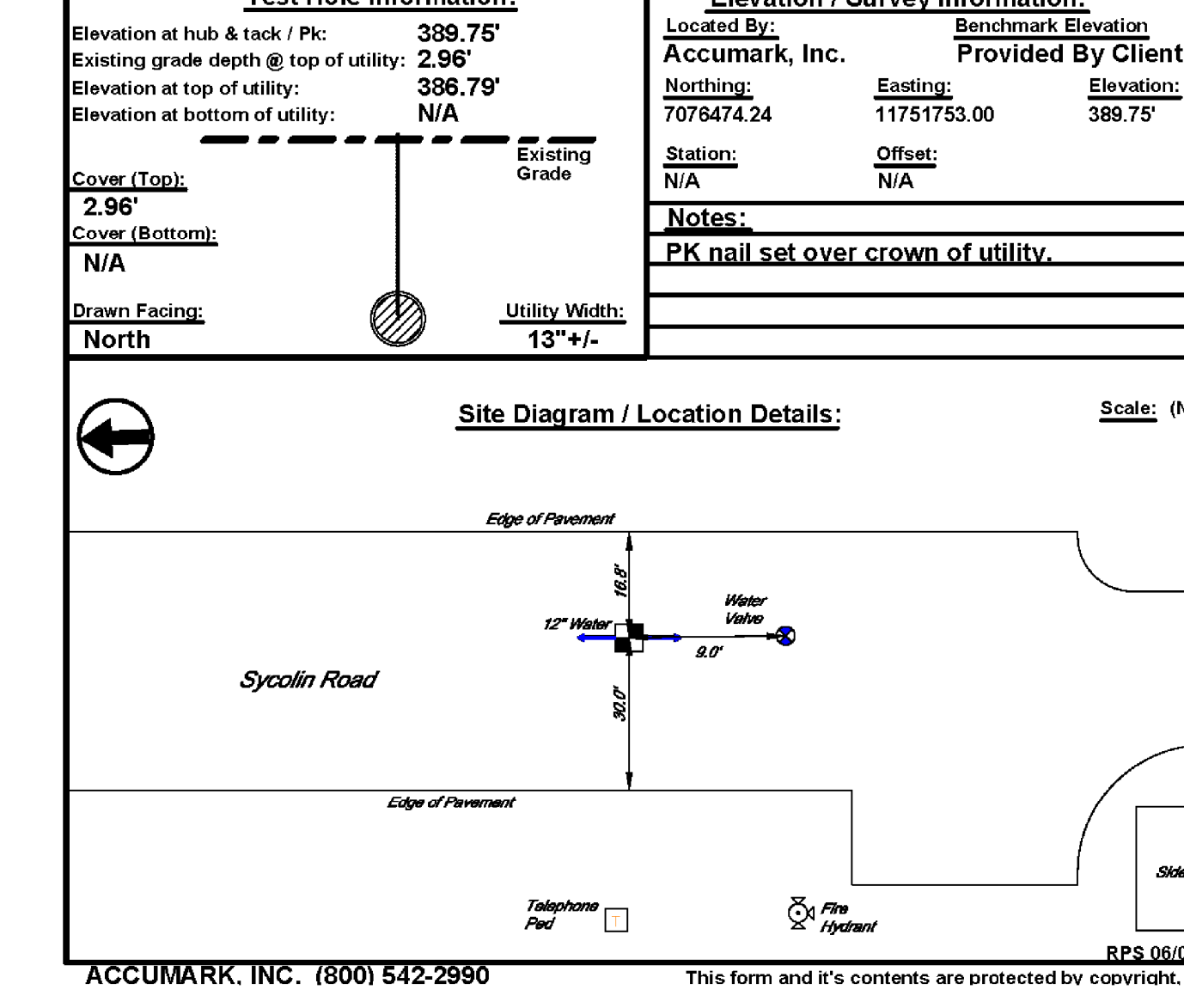
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Test Hole #: 48	Project Numbers: NV14-137
Project Name: Sycolin Road Fiber	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: LSB
Point of Contact: Mark Gunn	Work Type: Infrastructure
Utility Requested: Water	Test Hole Date: 09/16/15
Utility Found: Water	Soil Conditions: Rocky Clay, Water
Material Makeup: Iron (See Notes)	Utility Condition: Good
Size Utility Found: See Notes	Pavement Cond: Good
Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 383.04'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 12.99'	Accumark, Inc. 383.56' (Pt. #10)
Elevation at top of utility: 370.05'	Northing: Easting: Elevation:
Elevation at bottom of utility: N/A	7078667.8960 11751881.2086 383.04'
Cover (Top): 12.99'	Station: N/A
Cover (Bottom): N/A	Offset: N/A
Drawn Facing: West	Notes:
	PK set over crown of utility. Crew unable to
	determine type of iron or utility size due to
	cave-ins and excessive water.



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Test Hole #: 50	Project Numbers: NV14-137
Project Name: Sycolin Road	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: LCW
Point of Contact: Mark Gunn	Work Type: Infrastructure
Utility Requested: Water	Test Hole Date: 05/20/2016
Utility Found: Water	Soil Conditions: Rocky Moist Clay
Material Makeup: Ductile Iron	Utility Condition: Good
Size Utility Found: 12"	Pavement Cond: Good
Test Hole Information:	Elevation / Survey Information:
Elevation at hub & tack / Pk: 389.75'	Located By: Benchmark Elevation
Existing grade depth @ top of utility: 2.96'	Accumark, Inc. 383.56' (Pt. #10)
Elevation at top of utility: 386.79'	Northing: Easting: Elevation:
Elevation at bottom of utility: N/A	7076474.24 11751753.00 389.75'
Cover (Top): 2.96'	Station: N/A
Cover (Bottom): N/A	Offset: N/A
Drawn Facing: North	Notes:
	PK nail set over crown of utility.



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PROJECT NAME: SYCOLIN ROAD WIDENING PHASE IV FROM CLAUDIA DRIVE TO TOLBERT LANE S.E. UNDERGROUND UTILITIES TEST HOLE DATA

ENGINEER: Rinker Design Associates, P.C.
 Engineering: Surveying, Land Planning, Transportation, Environmental Services
 5006 Decoye Blvd., Suite 200, Manassas Virginia 20108 on the web @ www.rinker.com
 Telephone: (703) 368-7373 Fax: (703) 368-5443
 E-mail: sales@rinker.com, info@rinker.com, marketing@rinker.com, careers@rinker.com, training@rinker.com
 To Make Your Vision Reality

Town of Leesburg
 Loudoun County, Virginia

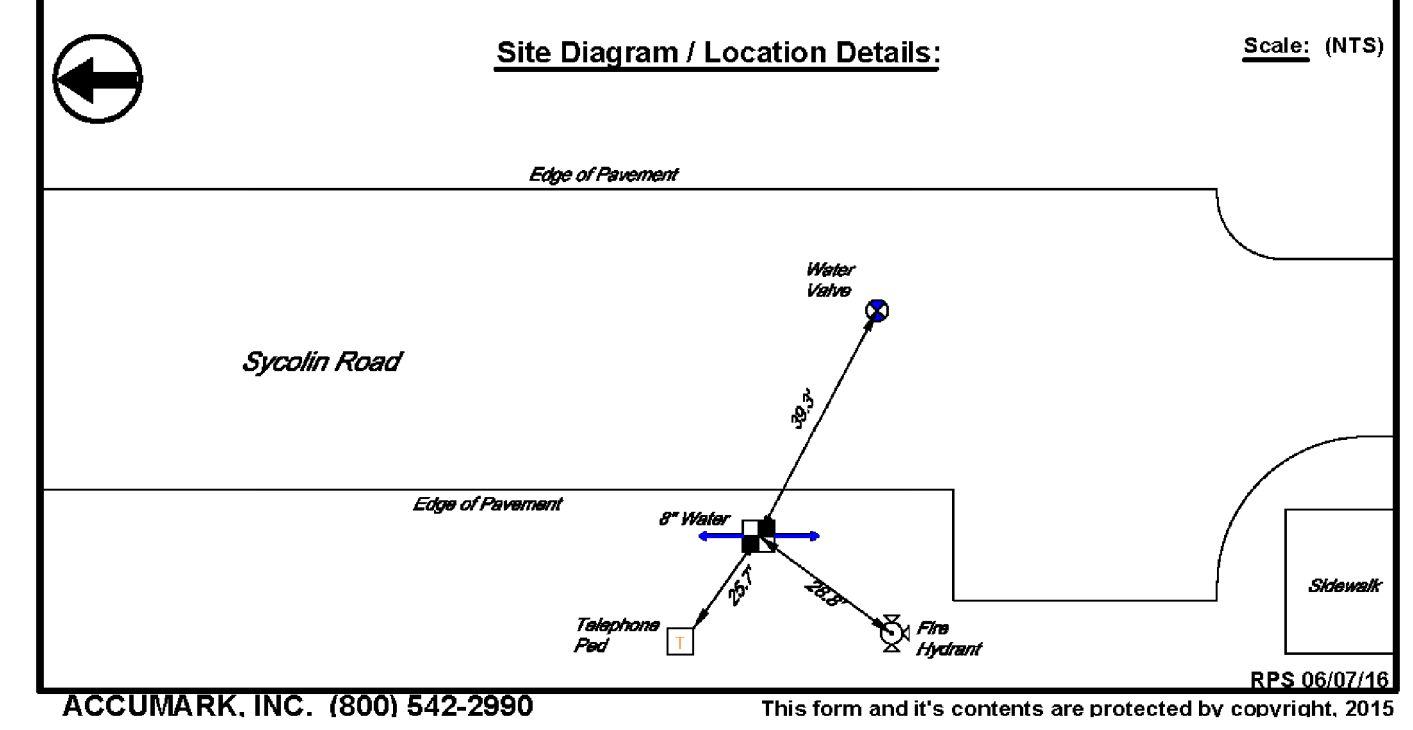
ASSOCIATED PLAN NUMBER: TICI-2016-0002
 C.I.P. NUMBER: U000-253-312
 VDOT PROJ. NO. U000-253-312

TOWN NUMBER: TBD

PROJECT MANAGER: Anne Geller, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: Accumark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sohalb Dadir, P.E., (703) 368-7373

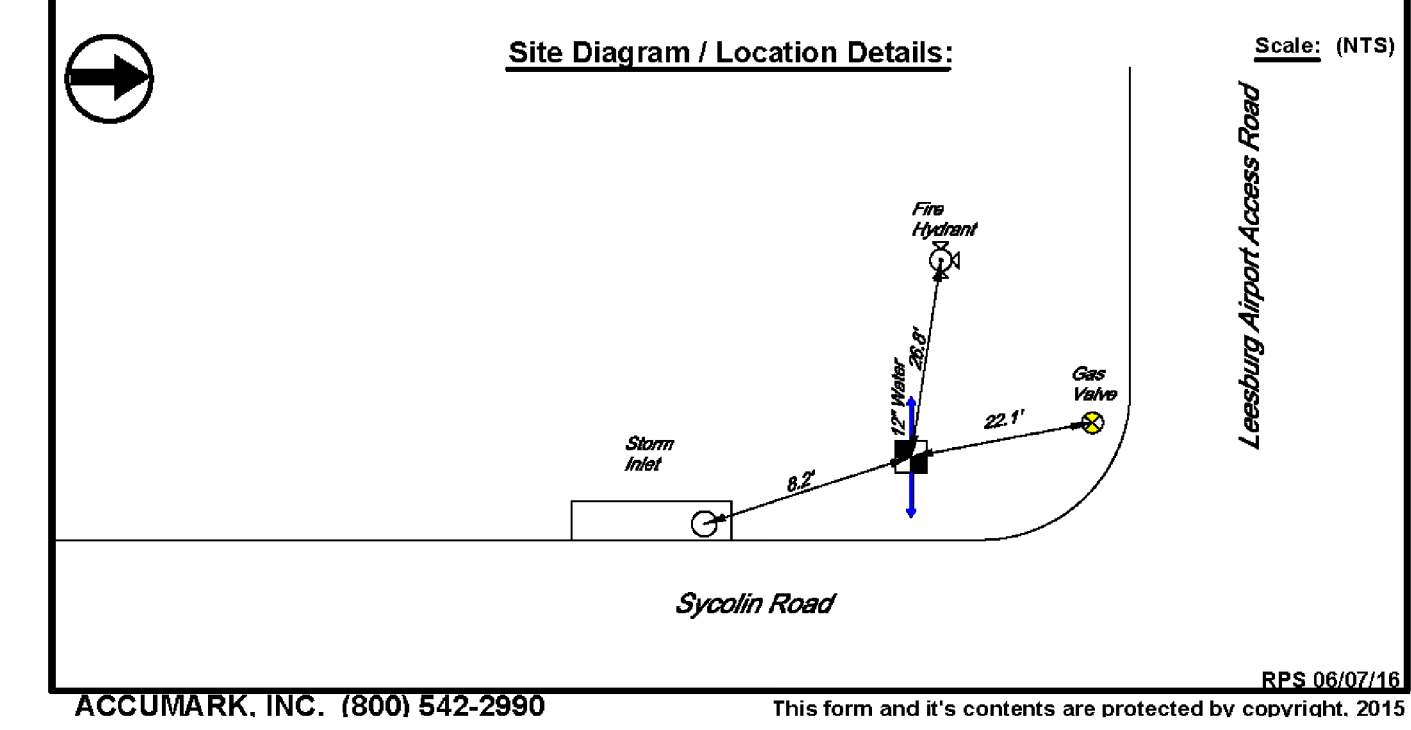
Test Hole #: 51	Project Numbers: NV14-137
Project Name: Sycolin Road	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: LCW
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Water	Test Hole Date: 05/20/2016
Utility Found: Water	Soil Conditions: Rocky Moist Clay
Material Makeup: Ductile Iron	Utility Condition: Good
Size Utility Found: 8"	Pavement Cond: N/A (Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 389.38'	Existing grade depth @ top of utility: 4.09'	Located By: Accumark, Inc.	Benchmark Elevation: Provided By Client
Elevation at top of utility: 385.29'	Elevation at bottom of utility: N/A	Northing: 7076470.45	Easting: 11751711.93
		Station: N/A	Offset: N/A
Cover (Top): 4.09' Cover (Bottom): N/A Drawn Facing: North		Notes: PK nail set over crown of utility.	



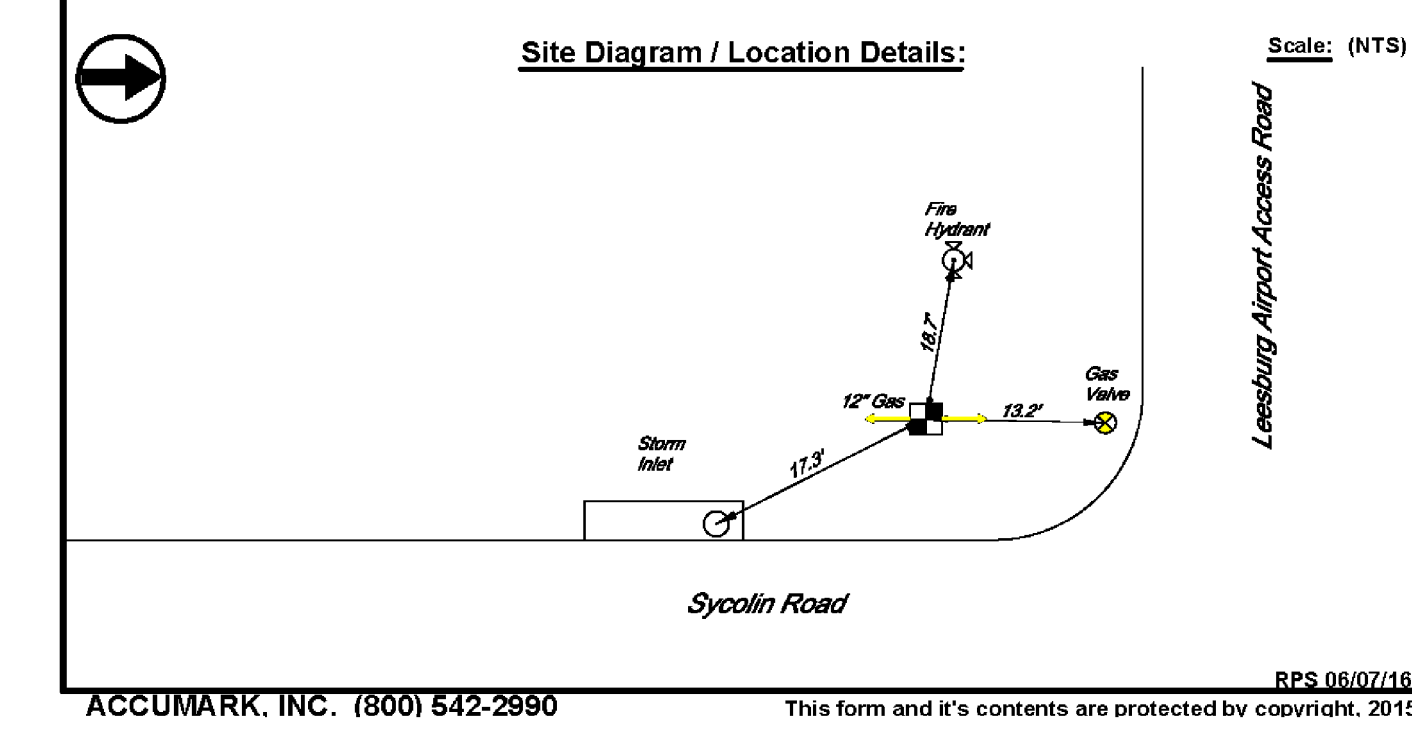
Test Hole #: 52	Project Numbers: NV14-137
Project Name: Sycolin Road	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: LCW
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Water	Test Hole Date: 05/20/2016
Utility Found: Water	Soil Conditions: Rocky Moist Clay
Material Makeup: Ductile Iron	Utility Condition: Good
Size Utility Found: 12"	Pavement Cond: N/A (Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 380.31'	Existing grade depth @ top of utility: 4.72'	Located By: Accumark, Inc.	Benchmark Elevation: Provided By Client
Elevation at top of utility: 375.59'	Elevation at bottom of utility: N/A	Northing: 7076962.78	Easting: 11751690.07
		Station: N/A	Offset: N/A
Cover (Top): 4.72' Cover (Bottom): N/A Drawn Facing: East		Notes: Hub and Tac set over crown of utility.	



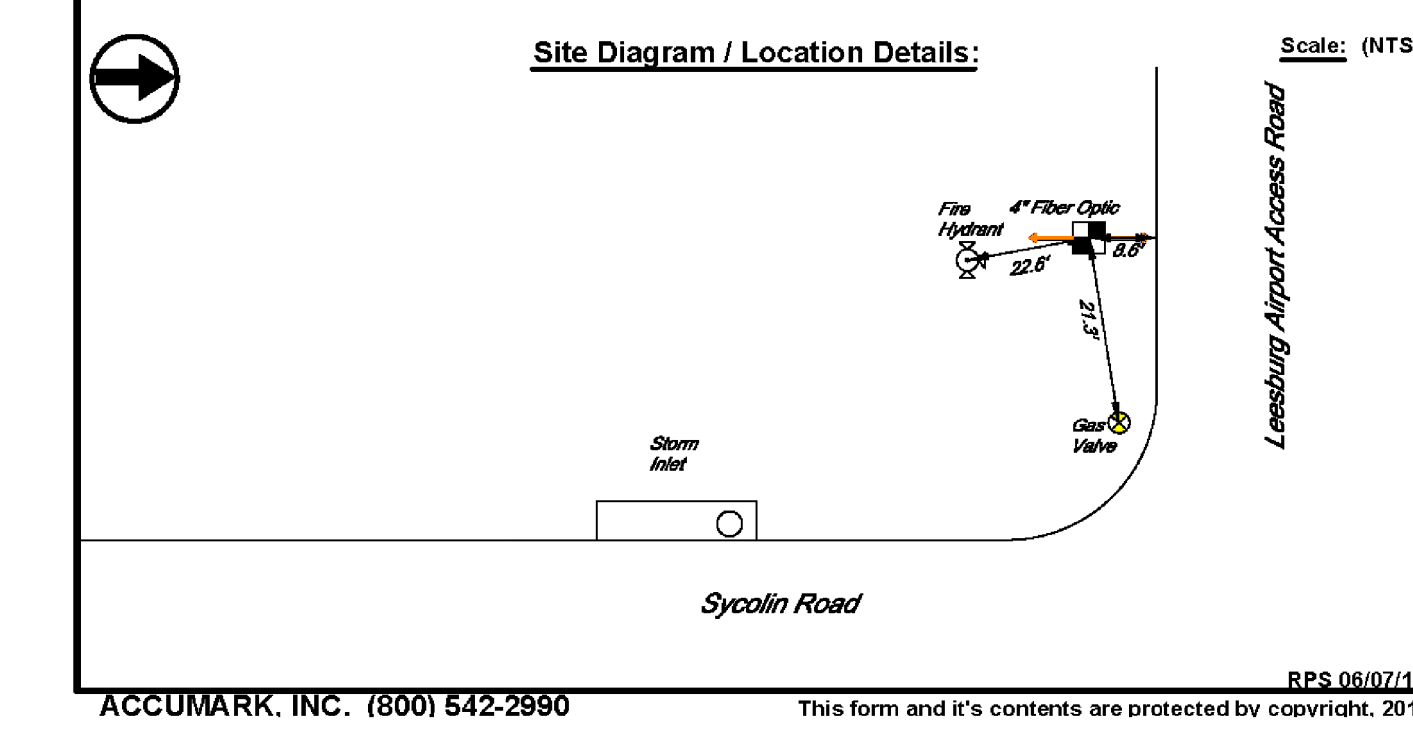
Test Hole #: 53	Project Numbers: NV14-137
Project Name: Sycolin Road	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: Washington Gas
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Gas	Test Hole Date: 05/20/2016
Utility Found: Gas	Soil Conditions: Rocky Moist Clay
Material Makeup: Plastic	Utility Condition: Good
Size Utility Found: 2"	Pavement Cond: N/A (Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 379.68'	Existing grade depth @ top of utility: 2.01'	Located By: Accumark, Inc.	Benchmark Elevation: Provided By Client
Elevation at top of utility: 377.67'	Elevation at bottom of utility: N/A	Northing: 7076968.00	Easting: 11751652.48
		Station: N/A	Offset: N/A
Cover (Top): 2.01' Cover (Bottom): N/A Drawn Facing: North		Notes: Hub and Tac set over crown of utility.	



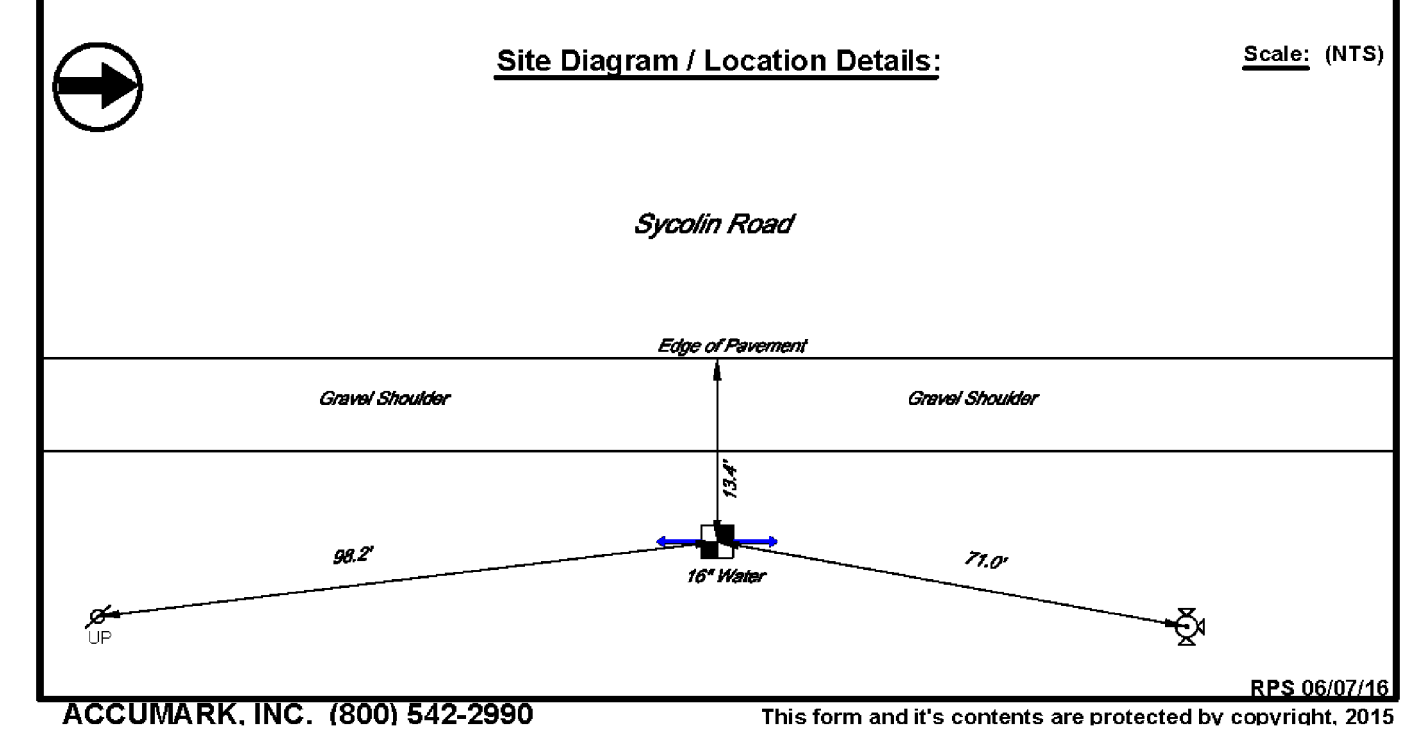
Test Hole #: 54	Project Numbers: NV14-137
Project Name: Sycolin Road	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: Unknown
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Fiber Optic	Test Hole Date: 05/19/2016
Utility Found: Fiber Optic	Soil Conditions: Rocky Moist Clay
Material Makeup: Steel	Utility Condition: Good
Size Utility Found: 4"	Pavement Cond: N/A (Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 376.57'	Existing grade depth @ top of utility: 2.99'	Located By: Accumark, Inc.	Benchmark Elevation: Provided By Client
Elevation at top of utility: 373.58'	Elevation at bottom of utility: N/A	Northing: 7076988.81	Easting: 11751629.17
		Station: N/A	Offset: N/A
Cover (Top): 2.99' Cover (Bottom): N/A Drawn Facing: North		Notes: Hub and Tac set over crown of utility.	



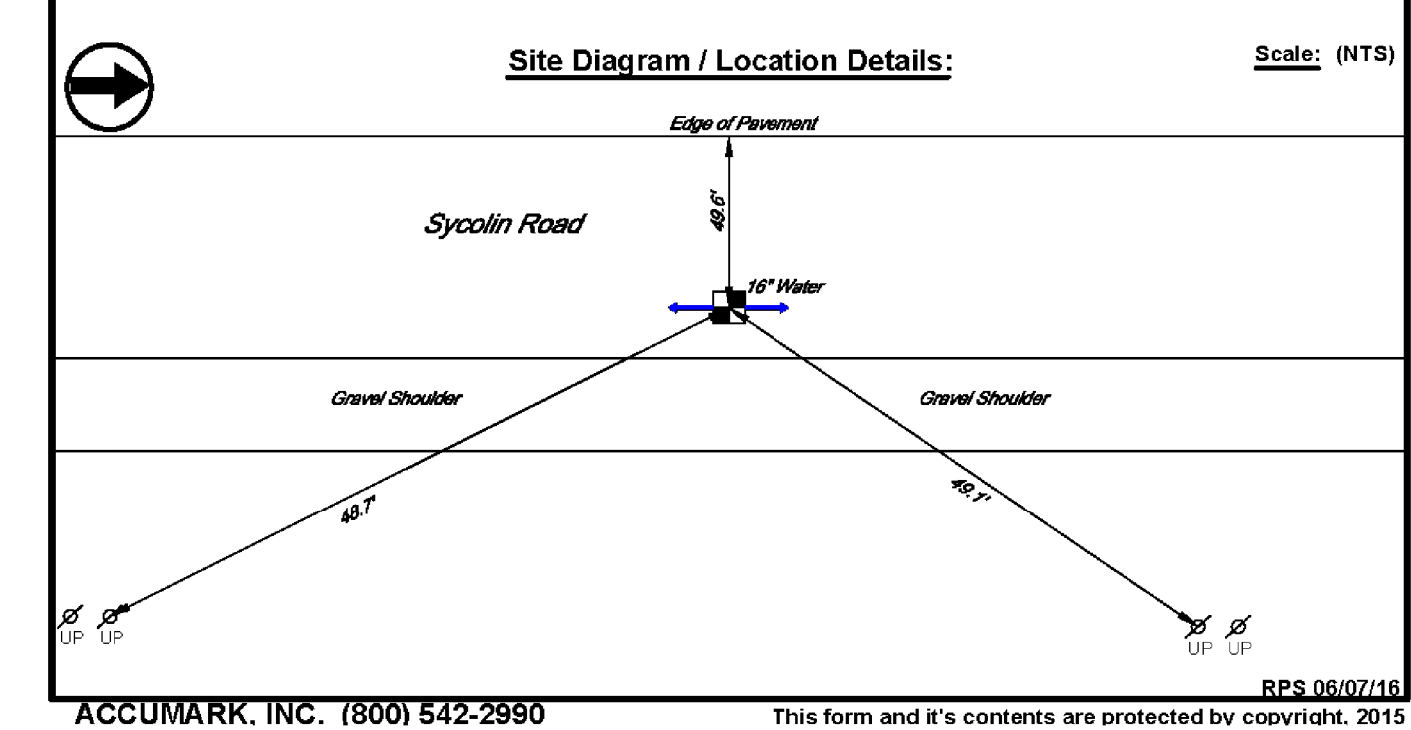
Test Hole #: 55	Project Numbers: NV14-137
Project Name: Sycolin Road	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: LCW
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Water	Test Hole Date: 05/11/2016
Utility Found: Water	Soil Conditions: Rocky Moist Clay
Material Makeup: Ductile Iron	Utility Condition: Good
Size Utility Found: 16"	Pavement Cond: N/A (Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 375.56'	Existing grade depth @ top of utility: 4.06'	Located By: Accumark, Inc.	Benchmark Elevation: Provided By Client
Elevation at top of utility: 371.50'	Elevation at bottom of utility: N/A	Northing: 7078118.38	Easting: 11751773.81
		Station: N/A	Offset: N/A
Cover (Top): 4.06' Cover (Bottom): N/A Drawn Facing: North		Notes: Hub and Tac set over crown of utility.	



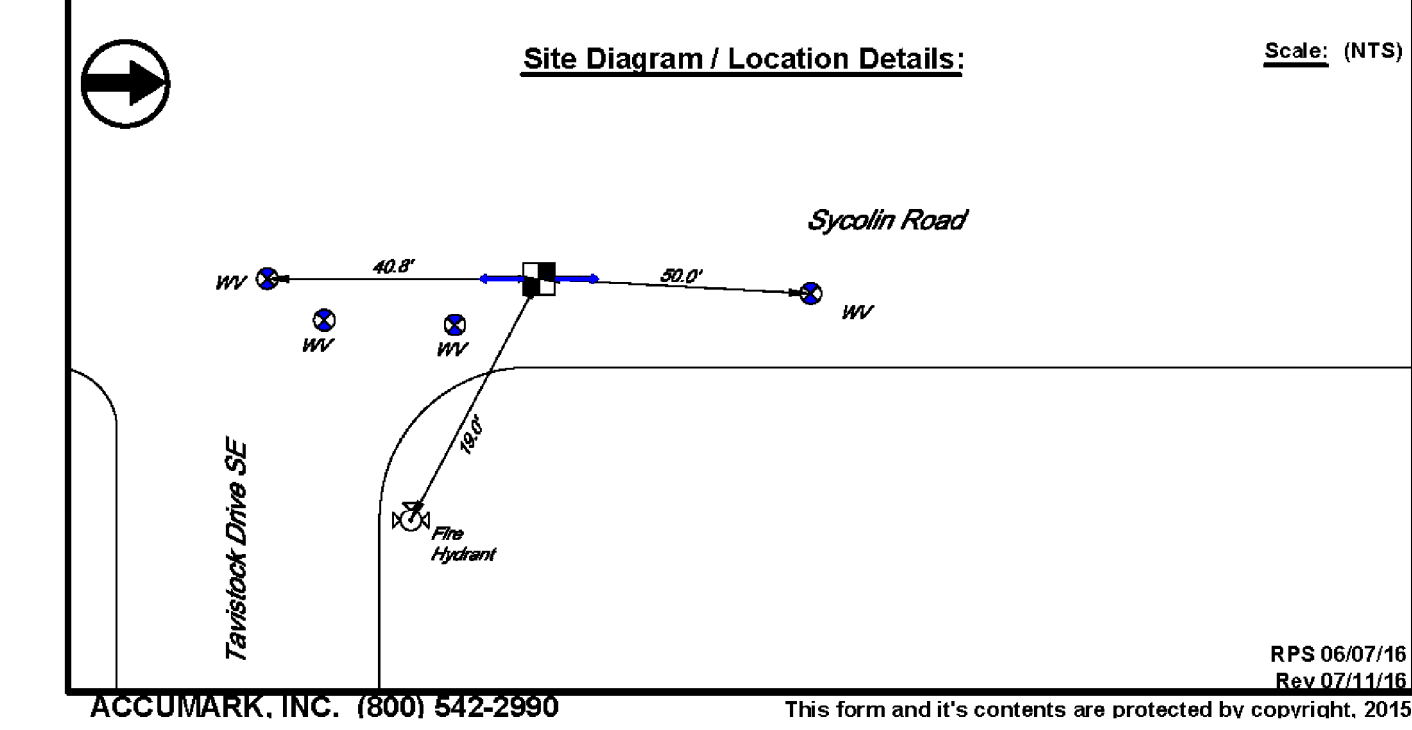
Test Hole #: 56	Project Numbers: NV14-137
Project Name: Sycolin Road	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: LCW
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Water	Test Hole Date: 05/11/2016
Utility Found: Water	Soil Conditions: Rocky Moist Clay
Material Makeup: Ductile Iron	Utility Condition: Good
Size Utility Found: 16"	Pavement Cond: Good (Asphalt 0.6')

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 379.43'	Existing grade depth @ top of utility: 4.50'	Located By: Accumark, Inc.	Benchmark Elevation: Provided By Client
Elevation at top of utility: 374.93'	Elevation at bottom of utility: N/A	Northing: 7078338.53	Easting: 11751819.18
		Station: N/A	Offset: N/A
Cover (Top): 4.50' Cover (Bottom): N/A Drawn Facing: North		Notes: Hub and Tac set over crown of utility.	



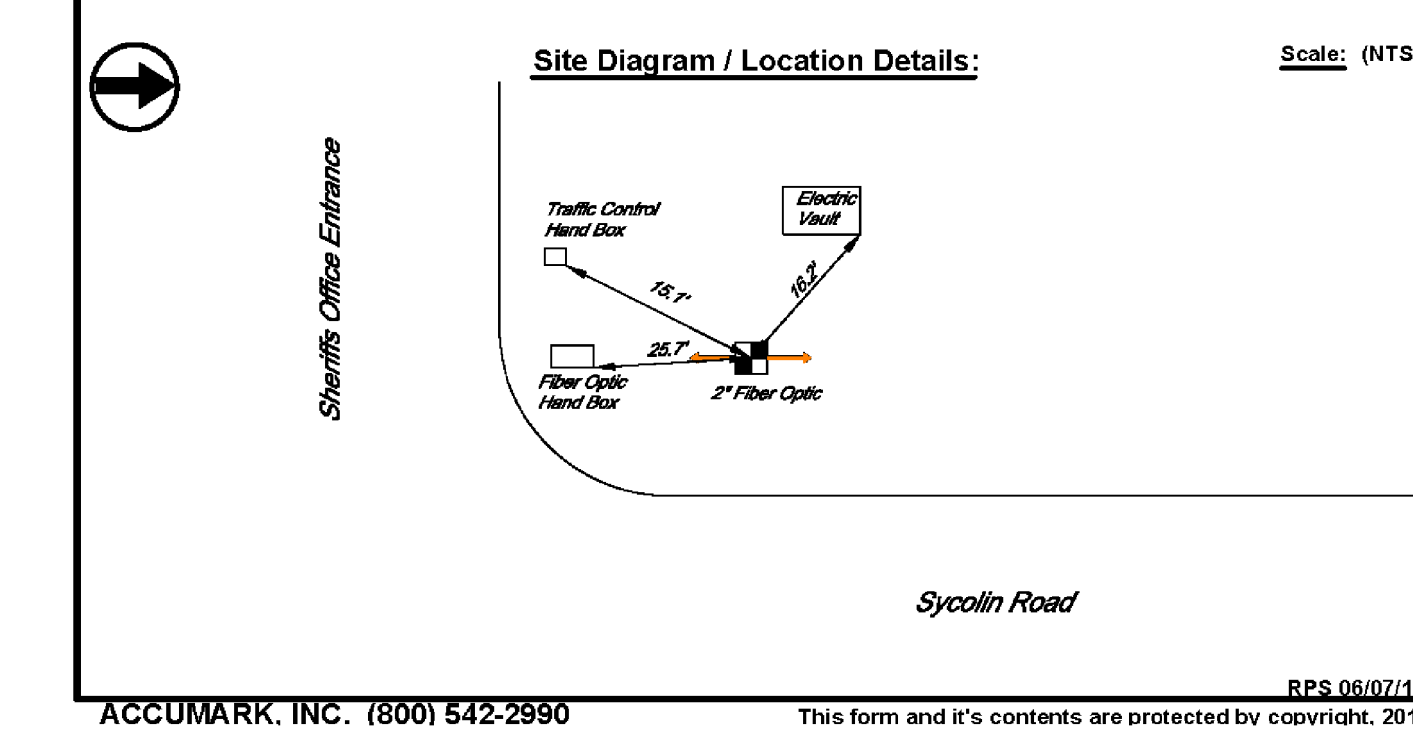
Test Hole #: 57 Rev	Project Numbers: NV14-137
Project Name: Sycolin Road	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: LCW
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Water	Test Hole Date: 06/21/16
Utility Found: Water	Soil Conditions: Wet Rock Clay, Water
Material Makeup: Ductile Iron	Utility Condition: See Notes
Size Utility Found: 16"	Pavement Cond: Good (Asphalt 0.8')

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 383.23'	Existing grade depth @ top of utility: 13.32'	Located By: Accumark, Inc.	Benchmark Elevation: Provided By Client
Elevation at top of utility: 369.91'	Elevation at bottom of utility: N/A	Northing: 7078707.6452	Easting: 11751893.1159
		Station: N/A	Offset: N/A
Cover (Top): 13.32' Cover (Bottom): N/A Drawn Facing: South		Notes: PK set over crown of utility. Crew unable to verify condition due to excessive water and cave-ins. Utility measurement taken using air lance.	



Test Hole #: 58	Project Numbers: NV14-137
Project Name: Sycolin Road	Project Location: Sycolin Road
Requested By: Rinker Design Associates	Utility Owner: Unknown
Point of Contact: Mark Gunn (703) 334-9288	Work Type: Infrastructure Improvements
Utility Requested: Fiber Optic	Test Hole Date: 05/18/2016
Utility Found: Fiber Optic	Soil Conditions: Rocky Moist Clay
Material Makeup: Plastic	Utility Condition: Good
Size Utility Found: 2"	Pavement Cond: N/A (Grass)

Test Hole Information:		Elevation / Survey Information:	
Elevation at hub & tack / Pk: 381.68'	Existing grade depth @ top of utility: 3.03'	Located By: Accumark, Inc.	Benchmark Elevation: Provided By Client
Elevation at top of utility: 378.65'	Elevation at bottom of utility: N/A	Northing: 7078725.68	Easting: 11751795.46
		Station: N/A	Offset: N/A
Cover (Top): 3.03' Cover (Bottom): N/A Drawn Facing: North		Notes: Hub and Tac set over crown of utility.	



PROJECT MANAGER: Anne Geisler, (703) 771-2742 (Town of Leesburg)
SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
SUBSURFACE UTILITY BY: Accumark, (800) 542-2990 (2015)
DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
DESIGNED BY: Sahab Dadfar, P.E., (703) 368-7373

Test Hole #:	59	Project Numbers:	NV14-137
Project Name:	Sycolin Road	Project Location:	Sycolin Road Leesburg, Virginia
Requested By:	Rinker Design Associates	Utility Owner:	LCW
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Water	Test Hole Date:	05/12/2016
Utility Found:	Water	Soil Conditions:	Rocky Moist Clay
Material Makeup:	Ductile Iron	Utility Condition:	Good
Size Utility Found:	16"	Pavement Cond:	N/A (Grass)

Test Hole Information:		Elevation / Survey Information:					
Elevation at hub & tack / Pk:	382.68'	Located By:	Benchmark Elevation				
Existing grade depth @ top of utility:	7.44'	Accumark, Inc.	Provided By Client				
Elevation at top of utility:	375.24'	Northing:	7078828.92	Easting:	11751899.20	Elevation:	382.68'
Elevation at bottom of utility:	N/A	Station:		Offset:	N/A		

Existing Grade

Notes:

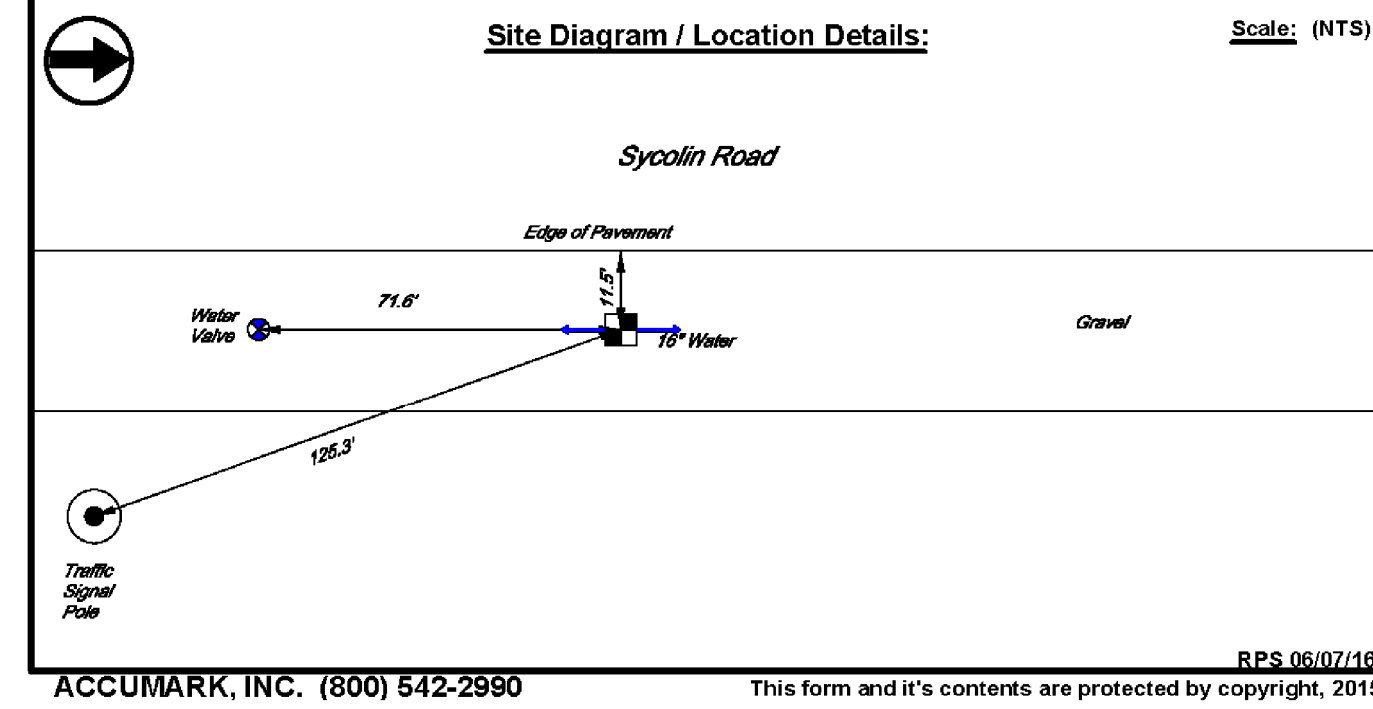
Hub and Tac set over crown of utility.

Drawn Facing:

North

Utility Width:

17" +/-



Test Hole #:	60	Project Numbers:	NV14-137
Project Name:	Sycolin Road	Project Location:	Sycolin Road Leesburg, Virginia
Requested By:	Rinker Design Associates	Utility Owner:	LCW
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Water	Test Hole Date:	05/12/2016
Utility Found:	Water	Soil Conditions:	Rocky Moist Clay
Material Makeup:	Ductile Iron	Utility Condition:	Good
Size Utility Found:	16"	Pavement Cond:	N/A (Grass)

Test Hole Information:		Elevation / Survey Information:					
Elevation at hub & tack / Pk:	383.88'	Located By:	Benchmark Elevation				
Existing grade depth @ top of utility:	5.48'	Accumark, Inc.	Provided By Client				
Elevation at top of utility:	378.40'	Northing:	7078958.47	Easting:	11751904.18	Elevation:	383.88'
Elevation at bottom of utility:	N/A	Station:		Offset:	N/A		

Existing Grade

Notes:

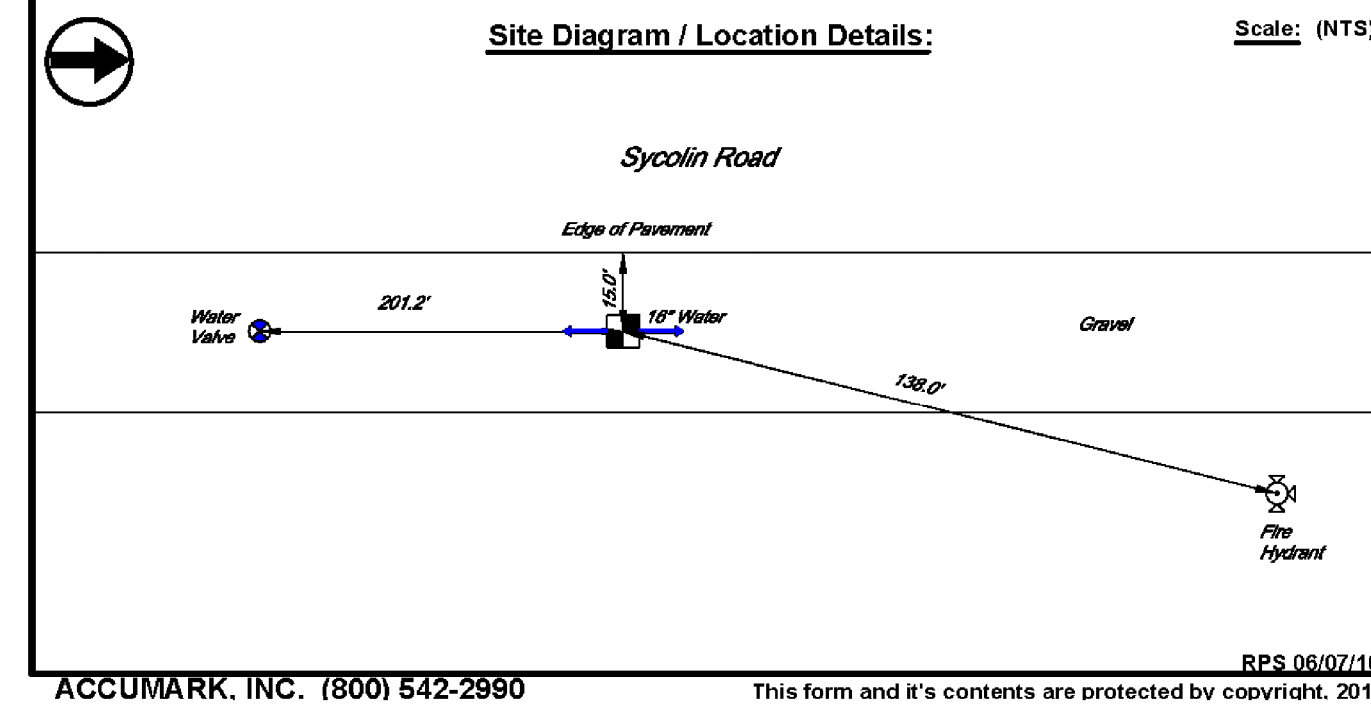
Hub and Tac set over crown of utility.

Drawn Facing:

North

Utility Width:

17" +/-



Test Hole #:	61	Project Numbers:	NV14-137
Project Name:	Sycolin Road	Project Location:	Sycolin Road Leesburg, Virginia
Requested By:	Rinker Design Associates	Utility Owner:	LCW
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Water	Test Hole Date:	05/12/2016
Utility Found:	Water	Soil Conditions:	Rocky Moist Clay
Material Makeup:	Poly Wrapped	Utility Condition:	Good
Size Utility Found:	16"	Pavement Cond:	N/A (Grass)

Test Hole Information:		Elevation / Survey Information:					
Elevation at hub & tack / Pk:	390.34'	Located By:	Benchmark Elevation				
Existing grade depth @ top of utility:	5.30'	Accumark, Inc.	Provided By Client				
Elevation at top of utility:	385.04'	Northing:	7079214.30	Easting:	11751891.67	Elevation:	390.34'
Elevation at bottom of utility:	N/A	Station:		Offset:	N/A		

Existing Grade

Notes:

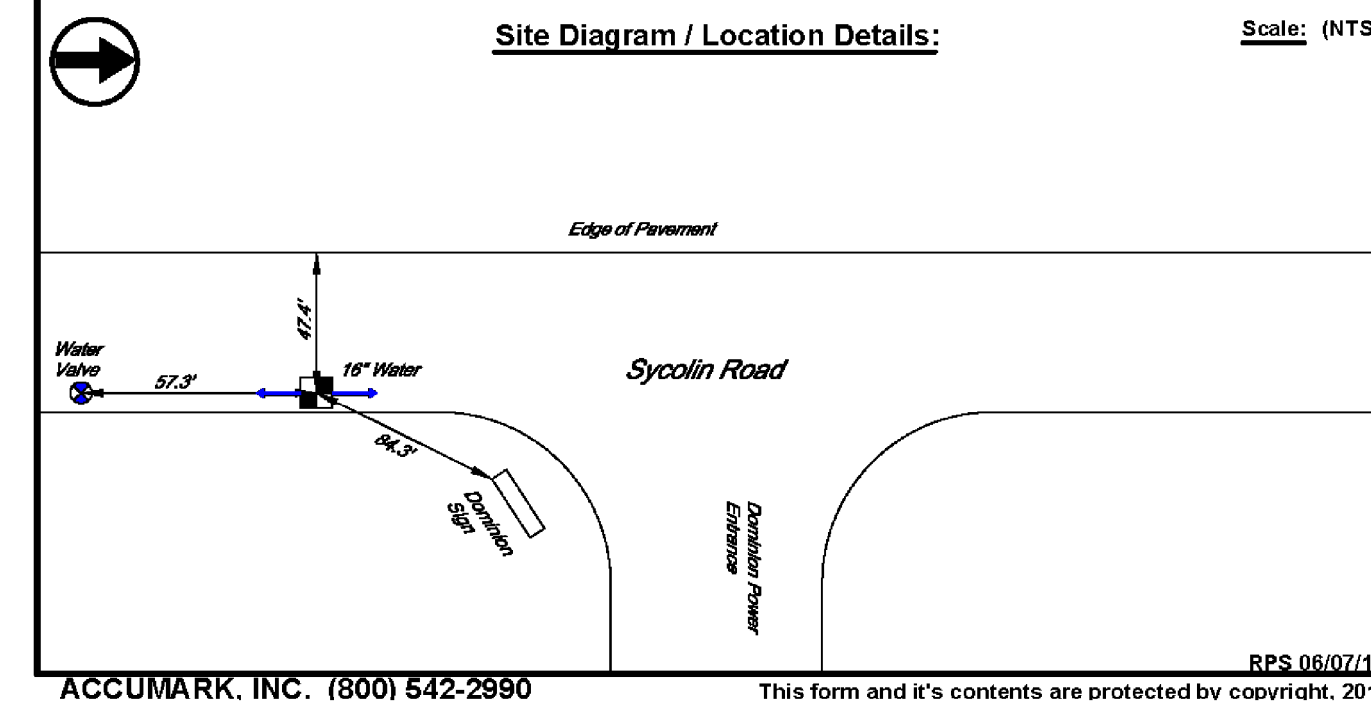
Hub and Tac set over crown of utility.

Drawn Facing:

North

Utility Width:

17" +/-



Test Hole #:	62	Project Numbers:	NV14-137
Project Name:	Sycolin Road	Project Location:	Sycolin Road Leesburg, Virginia
Requested By:	Rinker Design Associates	Utility Owner:	Washington Gas
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Gas	Test Hole Date:	05/18/2016
Utility Found:	Gas	Soil Conditions:	Rocky Moist Clay
Material Makeup:	Wrapped Steel	Utility Condition:	Good
Size Utility Found:	12"	Pavement Cond:	N/A (Grass)

Test Hole Information:		Elevation / Survey Information:					
Elevation at hub & tack / Pk:	393.21'	Located By:	Benchmark Elevation				
Existing grade depth @ top of utility:	2.36'	Accumark, Inc.	XX				
Elevation at top of utility:	390.85'	Northing:	7079310.99	Easting:	11751843.61	Elevation:	393.21'
Elevation at bottom of utility:	N/A	Station:		Offset:	N/A		

Existing Grade

Notes:

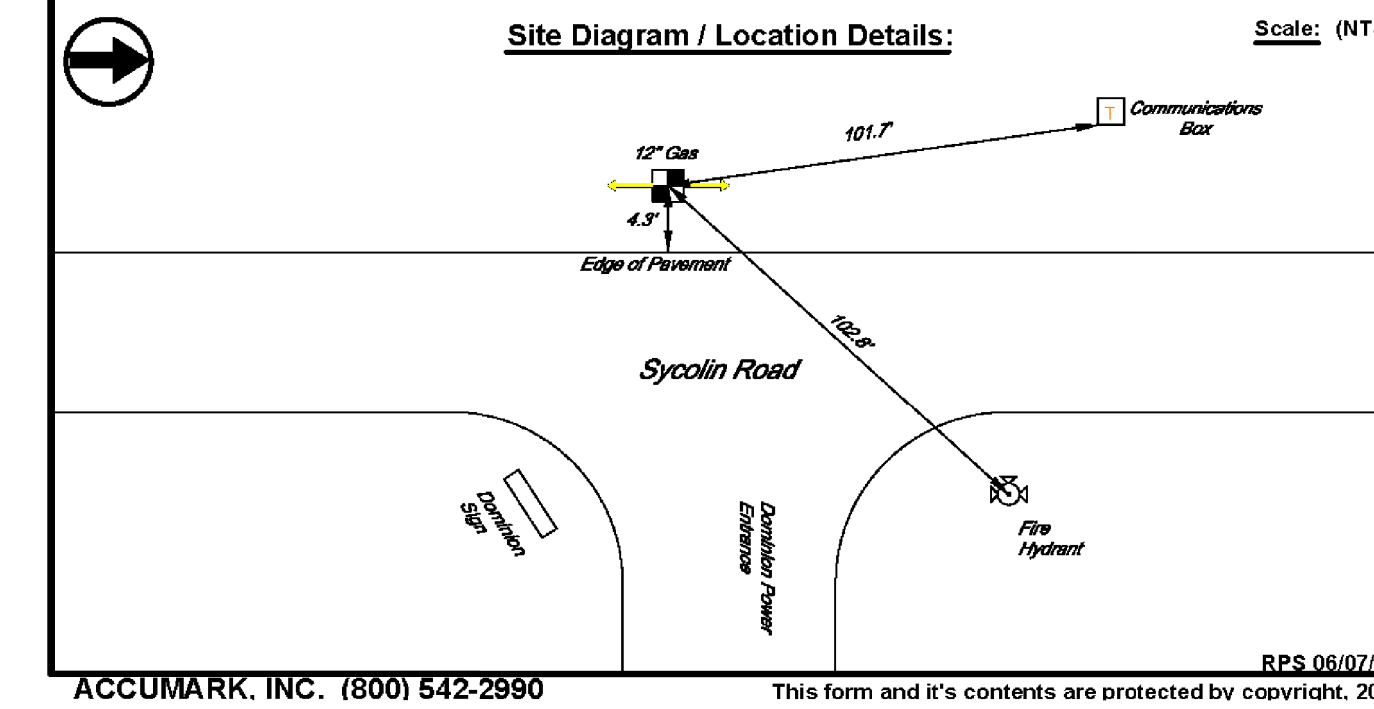
Hub and Tac set over crown of utility.

Drawn Facing:

North

Utility Width:

17" +/-



Test Hole #:	63	Project Numbers:	NV14-137
Project Name:	Sycolin Road	Project Location:	Sycolin Road Leesburg, Virginia
Requested By:	Rinker Design Associates	Utility Owner:	LCW
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Water	Test Hole Date:	05/18/2016
Utility Found:	Water	Soil Conditions:	Rocky Moist Clay
Material Makeup:	Cast Iron	Utility Condition:	Good
Size Utility Found:	12"	Pavement Cond:	N/A (Grass)

Test Hole Information:		Elevation / Survey Information:					
Elevation at hub & tack / Pk:	395.35'	Located By:	Benchmark Elevation				
Existing grade depth @ top of utility:	8.25'	Accumark, Inc.	Provided By Client				
Elevation at top of utility:	387.10'	Northing:	7079375.57	Easting:	11751886.93	Elevation:	395.35'
Elevation at bottom of utility:	N/A	Station:		Offset:	N/A		

Existing Grade

Notes:

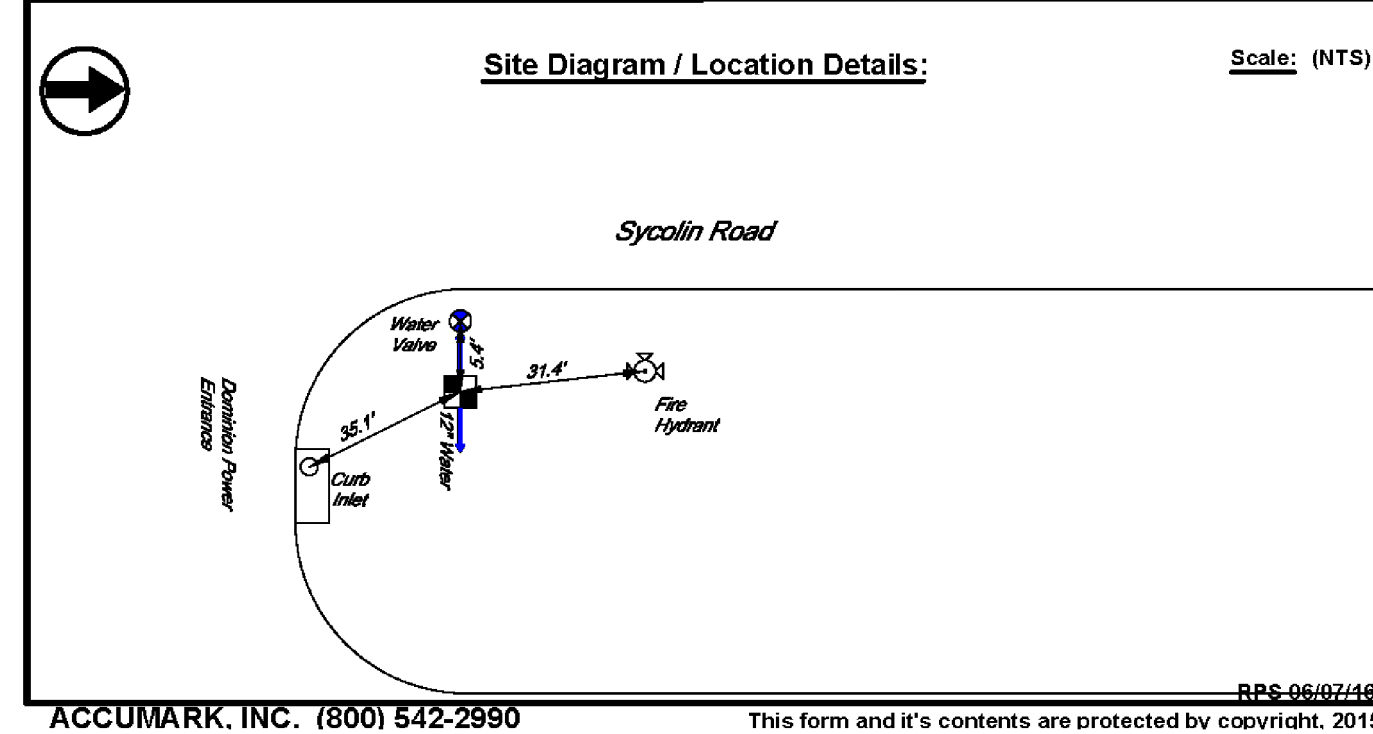
Hub and Tac set over crown of utility.

Drawn Facing:

East

Utility Width:

13" +/-



Test Hole #:	64	Project Numbers:	NV14-137
Project Name:	Sycolin Road	Project Location:	Sycolin Road Leesburg, Virginia
Requested By:	Rinker Design Associates	Utility Owner:	LCW
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Water	Test Hole Date:	05/18/2016
Utility Found:	Water	Soil Conditions:	Rocky Moist Clay
Material Makeup:	Cast Iron/Poly Wrapped	Utility Condition:	Good
Size Utility Found:	16"	Pavement Cond:	N/A (Grass)

Test Hole Information:		Elevation / Survey Information:					
Elevation at hub & tack / Pk:	392.07'	Located By:	Benchmark Elevation				
Existing grade depth @ top of utility:	7.45'	Accumark, Inc.	Provided By Client				
Elevation at top of utility:	384.62'	Northing:	7079499.82	Easting:	11751867.51	Elevation:	392.07'
Elevation at bottom of utility:	N/A	Station:		Offset:	N/A		

Existing Grade

Notes:

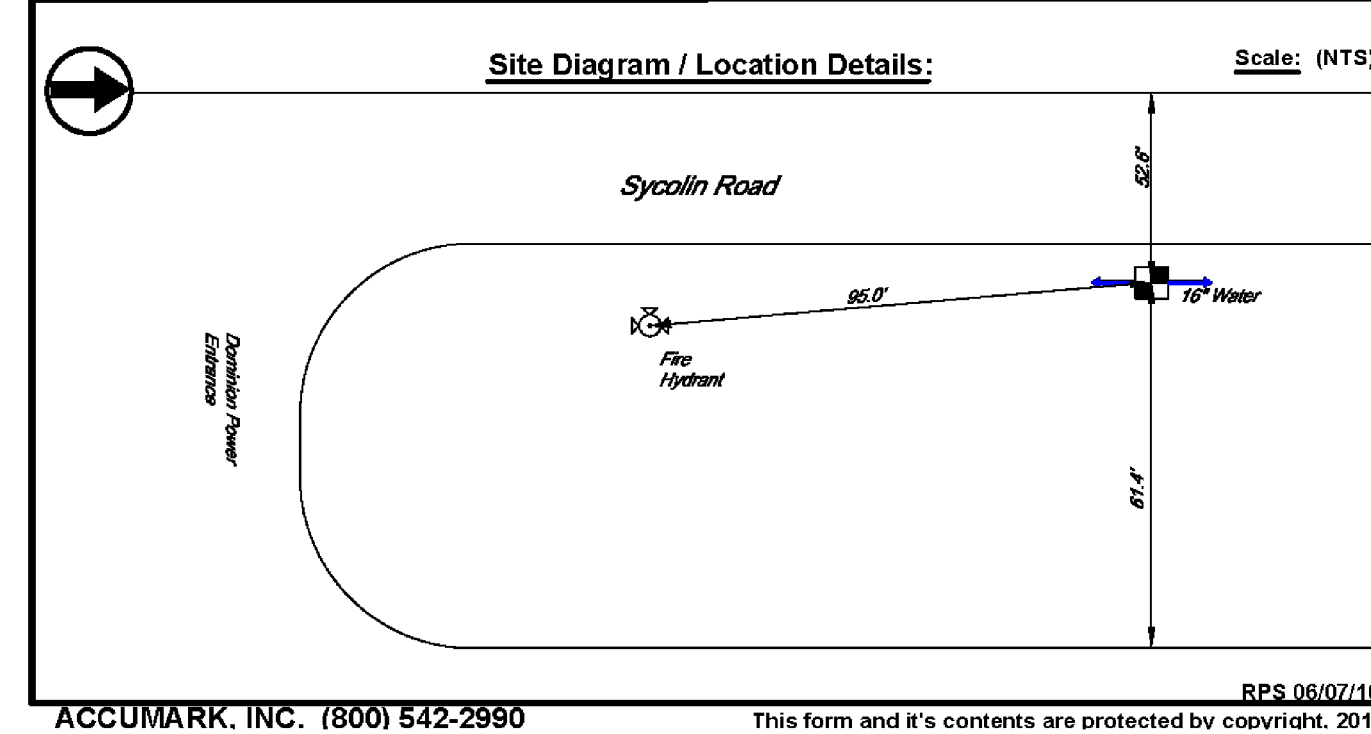
Hub and Tac set over crown of utility.

Drawn Facing:

North

Utility Width:

17" +/-



Test Hole #:	65	Project Numbers:	NV14-137
Project Name:	Sycolin Road	Project Location:	Sycolin Road Leesburg, Virginia
Requested By:	Rinker Design Associates	Utility Owner:	LCW
Point of Contact:	Mark Gunn (703) 334-9288	Work Type:	Infrastructure Improvements
Utility Requested:	Water	Test Hole Date:	05/24/2016
Utility Found:	Water	Soil Conditions:	Rocky Moist Clay
Material Makeup:	Copper	Utility Condition:	Good
Size Utility Found:	2"	Pavement Cond:	Good (Asphalt)

Test Hole Information:		Elevation / Survey Information:					
Elevation at hub & tack / Pk:	385.06'	Located By:	Benchmark Elevation				
Existing grade depth @ top of utility:	6.38'	Accumark, Inc.	Provided By Client				
Elevation at top of utility:	378.68'	Northing:	7079886.89	Easting:	11751769.68	Elevation:	385.06'
Elevation at bottom of utility:	N/A	Station:		Offset:	N/A		

Existing Grade

Notes:

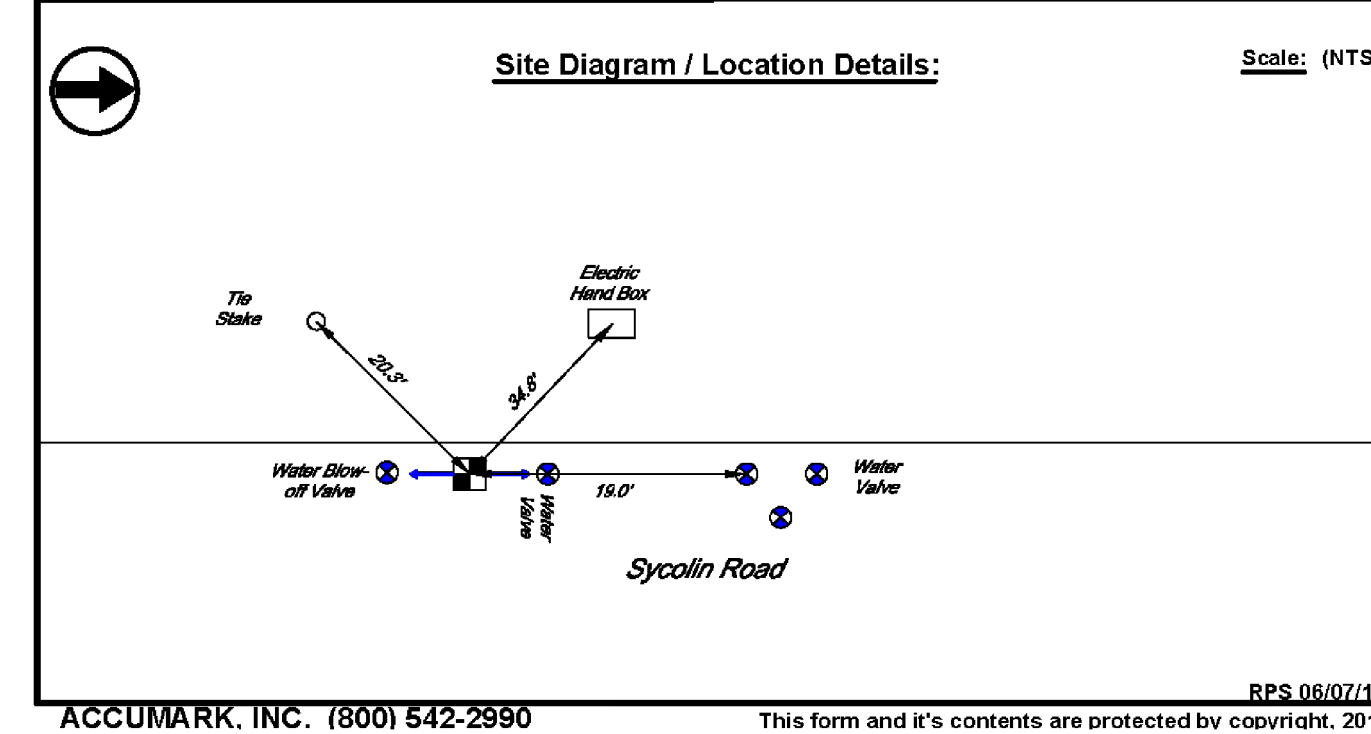
Hub and Tac set over crown of utility.

Drawn Facing:

North

Utility Width:

2.25" +/-



ASSOCIATED PLAN NUMBER: TLCl-2016-0002
C.I.P. NUMBER: U000-253-312
VDOT PROJ. NO. U000-253-312

PROJECT MANAGER *Anne Geisler, (703) 771-2742 (Town of Leesburg)*
 SURVEYED BY *Sidney Thomas, L.S., (703) 368-7373 (2015)*
 SUBSURFACE UTILITY BY *Accumark, (800) 542-2990 (2015)*
 DESIGN SUPERVISED BY *Mark A. Gunn, P.E., (703) 368-7373*
 DESIGNED BY *Sahab Qadiri, P.E., (703) 368-7373*

EROSION AND SILTATION CONTROL E&S CONTROL PLAN NARRATIVE

EROSION & SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

This project proposes the widening and improvement of Sycollin Road from the southern corporate limits of the Town of Leesburg to approximately 500 feet south of Tolbert Lane S.E. The undivided, two-lane existing roadway is proposed to be replaced with a cross section accommodating four thru lanes, tapered turn lanes, raised medians, curb and gutter on both sides of the road, concrete sidewalk on the west side of the road, and asphalt shared-use path on the east side. Grading for the proposed construction requires a decrease in storage volume of an existing detention pond, so an additional underground detention facility is proposed to protect the receiving outfall. The disturbed area of the project is approximately 10.31 acres with approximate cut volumes of 20,000 cu yds and fill volume of 17,000 cu yds.

EXISTING SITE DESCRIPTION

The existing roadway, which lies along the same alignment as the proposed, is a variable-width undivided road, and varies in the use of edge of travelway controls. Existing dry ponds lie on the western side of Sycollin Road, adjacent to the airport entrance, to control peak flows, and there is an extended-detention BMP pond to the southeast of the Sycollin-Tolbert intersection.

ADJACENT LAND

Just north of Claudia Drive, Leesburg Executive Airport is adjacent to the western roadway. Much of the surrounding land is industrially zoned, with the remainder in general business or residential zoning. Some forestry exists near the northwest and southeast ends of the project.

SOILS

For a detailed soils map and table, refer to sheet IP(3).

EROSION CONTROL MEASURES

Unless otherwise indicated, all vegetative and structural erosion and sediment control practices shall be constructed and maintained according to the standards and specifications of the Virginia Erosion and Sediment Control Handbook, the Town of Leesburg and VDOT. The minimum standards of the VESCH shall be adhered to unless otherwise waived or approved by a variance.

CRITICAL AREAS

Wetlands have been identified downstream of construction areas at Station 123+00 and Station 126+00.

STRUCTURAL PRACTICES

1. SAFETY FENCE - 3.01

A safety fence shall be installed around all temporary sediment traps.

2. TEMPORARY STONE CONSTRUCTION ENTRANCE - 3.02

Contractor to provide mitigation measures to reduce mud from entering the roadway during construction activities.

3. SILT FENCE BARRIER - 3.05

Silt fence sediment barriers will be installed downslope of areas with minimal grades to filter sediment-laden runoff from the sheet flow as indicated on the plans.

4. STORM DRAIN INLET PROTECTION - 3.07

All storm sewer inlets shall be protected during construction. Sediment-laden water shall be filtered before entering the storm sewer inlets.

5. TEMPORARY DIVERSION DIKE - 3.09

A system of diversion dikes to direct flow into the sediment traps, existing receiving channels and basin will be installed below major graded areas as indicated on the erosion & sediment control plans.

7. TEMPORARY SEDIMENT TRAP - 3.13

A temporary ponding area will be formed by constructing an earthen embankment with a stone weir outlet. The depth and configuration of the trap will be designed to meet minimum standards, and will be filled in Phase II when all storm sewer utilities are in place and functional. Specific details of the sediment traps are shown on the plan.

8. SUPER SILT FENCE

Super silt fence sediment barriers will be installed downslope of areas with minimal grades to filter sediment-laden runoff from the sheet flow as indicated on the plans.

VEGETATIVE PRACTICES

1. TEMPORARY SEEDING - 3.31

2. PERMANENT SEEDING - 3.32

Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven days to denuded areas that may not be at final grade, but will remain dormant for longer than 30 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.

EROSION & SEDIMENT CONTROL MANAGEMENT STRATEGIES-PHASE I

Loudoun County and the Town of Leesburg shall be notified 48 hours prior to start of construction. The first task of Phase I will be to install perimeter controls, such as silt fence and diversion dikes. After the perimeter has been established, apply all inlet protection as specified. Next, construct and stabilize the outlet extension of box culvert 7-9 and the new endwall structure. Once this area has been stabilized, construct sediment trap 2 and the associated ditch, then complete sediment traps 1 and 3-7. Follow completion of all sediment-capturing controls with rough grading of the site, and provide temporary seeding to any area to be left for over seven days. The Phase I erosion control program shall:

1. Flag limits of clearing & grading and hold pre-construction meeting.
2. Provide minimum grubbing to allow Phase I installation.
3. Install perimeter controls as shown to include diversion dikes, silt fence, sediment traps 1-7, and all storm sewer and culverts depicted in Phase I. These sediment trapping measures shall be installed as a first step in grading per the erosion & sediment control plan and will be seeded and mulched immediately following installation.
4. Grading operations may commence once perimeter controls, diversions and trapping measures, and storm sewers are installed to the satisfaction of the Inspector.
5. Fill slope surfaces shall be left in roughened condition to reduce sheet and fill erosion of the slopes. The contractor shall re-direct concentrated flow away from the fill slopes by installing earth berms and direct the run off to stabilized outlet or trapping devices.
6. Temporary seeding or other stabilization will follow immediately after grading.
7. Once all of controls are in place, the contractor is to contact the county Inspector for sign-off. Once sign-off is obtained by the county, the contractor can proceed with general clearing and earthwork activities.

EROSION & SEDIMENT CONTROL MANAGEMENT STRATEGIES-PHASE II

After rough grading of the site is completed and all required seeding is done, the contractor shall transition the project into the Phase II sediment and erosion controls program. It is intended that perimeter controls be maintained throughout the earthwork phase and/or until upstream areas have been stabilized. Stabilization shall consist of stone base for paved areas. It is the responsibility of the contractor to stockpile any topsoil necessary for final grading purposes. The Phase II erosion and sediment control program shall progress as follows:

1. Once the entire site is graded and all utilities have been installed, the contractor shall install inlet protection around all new/existing storm sewer inlets. Place outlet protection as required.
2. Install curb and gutter and base stone, final paving, inlet shaping shall be performed on all roadside curb inlets prior to final paving. No gutter pan is to be built adjacent to the inlets prior to final paving in order to allow for proper water flow into inlets. Place silt fence, as necessary, along outside of curb to prevent siltation and concentrated flows on streets.
3. Final grade the site.
4. Provide surface roughing of all slope areas at 6:1 and steeper.
5. Lime fertilize and permanently seed and mulch all areas that will not receive impervious cover.
6. For vegetative stabilization of all denuded areas see erosion control measures and vegetative practices.
7. Once all areas are stabilized to the satisfaction of the county Inspector the contractor shall remove perimeter controls.

MAINTENANCE STRATEGIES-EROSION & SEDIMENT EROSION CONTROL

SILT FENCE

Silt fences shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately. Close attention shall be paid to the repair of damaged silt fence resulting from end runs and undercutting. Should the fabric decompose or become ineffective prior to the end of the expected usable life and the barrier still be necessary, the fabric shall be replaced promptly. Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier. Any sediment deposits remaining in place after the silt fence is no longer required shall be dressed to conform with the existing grade, prepared and seeded.

TEMPORARY DIVERSION DIKE

Once every two weeks and after every storm the diversion dike is to be inspected and repairs made if needed. Damages caused by traffic or other activity must be repaired before the end of each working day.

SEDIMENT TRAP

Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to one-half the design volume of the wet storage. Sediment removal from the basin shall be deposited in a suitable area and in such a manner that it will not erode and cause sedimentation problems. Filter stone shall be checked regularly to ensure that filtration performance is maintained. Stone choked with sediment shall be removed and cleaned or replaced. The structure shall be checked regularly to ensure that it is structurally sound and has not been damaged. The height of the stone outlet should be checked to ensure that its center is at least 1 foot below the top of the embankment.

4/VAC50-30-40 MINIMUM STANDARDS.(MS-19)

An erosion and sediment control program adopted by a district or locality must be consistent with the following criteria, techniques and methods:

1. Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven days to denuded areas that may not be at final grade but will remain dormant for longer than 30 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.
2. During construction of the project, soil stockpiles and borrow areas shall be stabilized or protected with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soils stockpiles onsite as well as borrow areas and soil intentionally transported from the project site.
3. A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized. Permanent vegetation shall not be considered established until a ground cover is achieved that is uniform, mature enough to survive and will inhibit erosion.
4. Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land-disturbing activity and shall be made functional before upslope land disturbance takes place.
5. Stabilization measures shall be applied to earthen structures such as dams, dikes and diversions immediately after installation.
6. Sediment traps and sediment basins shall be designed and constructed based upon the total drainage area to be served by the trap or basin.
 - a. The minimum storage capacity of a sediment trap shall be 134 cubic yards per acre of drainage and the trap shall only control drainage areas less than three acres.
 - b. Surface runoff from disturbed areas that is comprised of flow from drainage areas greater than or equal to three acres shall be controlled by a sediment basin. The minimum storage capacity of a sediment basin shall be 134 cubic yards per acre of drainage area. The outfall system shall, at a minimum, maintain the structural integrity of the basin during a twenty-five year storm of 24-hour duration. Runoff coefficients used in runoff calculations shall correspond to a bare earth condition or those conditions expected to exist while the sediment basin is utilized.
7. Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion. Slopes that are found to be eroding excessively within one year of permanent stabilization shall be provided with additional slope stabilizing measures until the problem is corrected.
8. Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume or slope drain structure.
9. Whenever water seeps from a slope face, adequate drainage or other protection shall be provided.
10. All storm sewer inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.
11. Before newly constructed stormwater conveyance channels or pipes are made operational, adequate outlet protection and any required temporary or permanent channel lining shall be installed in both the conveyance channel and receiving channel.
12. When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction. Nonerodible material shall be used for the construction of causeways and cofferdams. Earthen fill may be used for these structures if armored by nonerodible cover materials.
13. When a live watercourse must be crossed by construction vehicles more than twice in any six-month period, a temporary vehicular stream crossing constructed of nonerodible material shall be provided.
14. All applicable federal, state and local regulations pertaining to working in or crossing live watercourses shall be met.
15. The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is completed.
16. Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:
 - a. No more than 500 linear feet of trench may be opened at one time.
 - b. Excavated material shall be placed on uphill side of trenches.
 - c. Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or off-site property.
 - d. Material used for backfilling trenches shall be properly compacted in order to minimize erosion and promote stabilization.
 - e. Restabilization shall be accomplished in accordance with these regulations.
 - f. Applicable safety regulations shall be complied with.

ASSOCIATED PLAN NUMBER: TLCl-2016-0002

C.I.P. NUMBER: U000-253-312

VDOT PROJ. NO. U000-253-312

TOWN NUMBER: TBD

Nikhil V Deshpande
2018.02.22 09:27:43 -05'00'

PROJECT NAME: SYCOLIN ROAD WIDENING PHASE IV FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.

EROSION & SILTATION CONTROL PLAN NARRATIVE

Town of Leesburg

Loudoun County, Virginia

PROJECT MANAGER: MARK A. GUNN, P.E.

SUBMISSION DATE: 02/21/2018

PROJECT MANAGER: Anne Geisler, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: Accumark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sahab Qadir, P.E., (703) 368-7373

EROSION AND SILTATION CONTROL

E&S CONTROL PLAN NOTES

17. Where construction vehicle access routes intersect paved or public roads, provisions shall be made to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or public road surface, the road surface shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual development lots as well as to larger land-disturbing activities.

18. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed, unless otherwise authorized by the local program authority. Trapped measures shall be permanently stabilized to prevent further erosion and sedimentation.

19. Properties and waterways downstream from development site shall be protected from sediment deposition, erosion and damage due to increase in volume, velocity and peak flow rate of stormwater runoff for the stated frequency storm of 24-hour duration in accordance with the following standards and criteria:

a. Concentrated stormwater runoff leaving a development site shall be discharged directly into an adequate natural or man-made receiving channel, pipe or storm sewer system. For those sites where runoff is discharged into a pipe or pipe system, downstream stability analyses at the outfall of the pipe or pipe system shall be performed.

b. Adequacy of all channels and pipes shall be verified in the following manner:

(1) The applicant shall demonstrate that the total drainage area to the point of analysis within the channel is one hundred times greater than the contributing drainage area of the project in question; or

(2) (a) Natural channels shall be analyzed by the use of a two-year storm to verify that stormwater will not overtop channel banks nor cause erosion of channel bed and banks; and

(b) All previously constructed man-made channels shall be analyzed by the use of a ten-year storm to verify that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not cause erosion of channel bed or banks; and

(c) Pipes and storm sewer systems shall be analyzed by the use of a ten-year storm to verify that stormwater will be contained within the pipe or system.

c. If existing natural receiving channels or previously constructed man-made channels or pipes are not adequate, the applicant shall:

(1) Improve the channel to a condition where a ten-year storm will not overtop the banks and a two-year storm will not cause erosion to the channel bed or banks; or

(2) Improve the pipe or pipe system to a condition where the ten-year storm is contained within the appurtenances; or

(3) Develop a site design that will not cause the pre-development peak runoff rate from a two-year storm to increase when runoff outfalls into a natural channel or will not cause the pre-development peak runoff rate from a ten-year storm to increase when runoff outfalls into a man-made channel; or

(4) Provide a combination of channel improvement, stormwater detention or other measures which is satisfactory to the plan-approving authority to prevent downstream erosion.

d. The applicant shall provide evidence of permission to make the improvements.

e. All hydrologic analyses shall be based on existing watershed characteristics and the ultimate development of the subject project.

f. If the applicant chooses an option that includes stormwater detention he shall obtain approval from the locality of a plan for maintenance of the detention facilities. The plan shall set forth the maintenance requirements of the facility and the person responsible for performing the maintenance.

EROSION & SEDIMENT CONTROL STANDARD NOTES:

All erosion control measures shown on the approved plan must be in place and inspected and approved by the Town of Leesburg prior to clearing, stripping of topsoil or grading.

A copy of the approved erosion and sediment control plan and permit shall be kept on the site at all times.

The contractor's representative is responsible for the installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the Town of Leesburg.

All disturbed areas are to drain to approved sediment control measures at all times during land disturbing activities and during site development until complete and adequate stabilization is achieved.

Water must be pumped into an approved filtering device during dewatering operations.

All erosion and sediment control practices must be constructed and maintained according to the minimum standards and specifications of the Virginia Erosion and Sediment Control Handbook and the Virginia Regulations VR 625-02-00 erosion and sediment control regulations and to the Loudoun County Design and Construction Standards Manual.

The contractor's representative will be responsible for the installation and maintenance of all erosion and sediment control practices at all times.

The contractor's representative shall inspect all erosion and sediment control measures daily and after each significant rainfall. The following items will be checked in particular:

Sediment basins will be cleaned out when the level of sediment buildup reaches the cleanout elevation indicated on the riser pipe. Sediment shall be disposed in suitable areas and in such a manner that will not erode or cause sedimentation problems.

Emergency spillways should be checked regularly to ensure that its lining is well established and erosion resistant.

Gravel outlets will be checked regularly for sediment buildup which will prevent drainage. If the gravel is clogged by sediment, it shall be removed and cleaned or replaced.

Seeded areas will be checked regularly to ensure that a good stand is maintained. Areas should be fertilized and reseeded as needed.

Stream diversion and storm conveyance channels shall be inspected daily and after each rain to ensure they're functioning properly and that the integrity of the linings are not impaired.

Any necessary repairs or cleanup to maintain the effectiveness of the erosion control devices must be made immediately after the inspection.

Sediment trapping measures will be installed as a first step in grading and will be seeded and mulched immediately following installation.

Permanent soil stabilization shall be applied to denuded areas within seven (7) days after final grade is reached on any portion of the site.

Seeding and selection of the seed mixture shall be in accordance with the Virginia Erosion and Sediment Control Handbook standard and specification 3.32.

Roads and parking areas shall be stabilized within seven (7) days after final grade is reached.

Areas which are not to be disturbed will be clearly marked by flags, signs, etc.

Tree save areas shall be clearly marked in the field by orange safety fence.

Orange safety fence must be installed around all silt traps and sediment basins.

EROSION & SEDIMENT CONTROL STANDARD NOTES:

The temporary erosion and siltation control items shown on the E&S control plan are intended to provide a general plan for controlling erosion and siltation within the project limits. The E&S control plan is based on field conditions at the time of plan development and an assumed sequence of construction. The contractor, in conjunction with the project engineer and/or environmental monitor, shall adjust the location, quantity and type of erosion and siltation control items required based on the actual field conditions encountered at the time of construction and the selected sequence of construction.

The areas beyond the project's construction area are to be protected from siltation, perimeter controls such as filter barrier, silt fence, diversion dikes, turbidity curtains, etc. shall be installed prior to any grubbing operations or other earth moving activities.

All channel relocations are to be constructed during the earliest stage of construction and shall be constructed in the dry wherever possible. Stabilization or vegetation shall be established before flow is redirected through the constructed area as directed by the engineer.

Rock for check dams, drop inlet silt traps, erosion control stone and riprap in channels shall be in accordance with Section 203 and Section 414 of the applicable VDOT Road and Bridge specifications.

Silt removal and sediment clean-out from erosion and siltation control items shall be performed in accordance with the following:

- Temporary sediment basins and sediment traps - when the "wet" storage volume

(permanent pool) has been reduced by 50%.

- Dewatering basins - when the excavated volume has been reduced by 50%.

- All other erosion and siltation control items - when the capacity, height, or depth has been reduced by 50%.

The Loudoun County Inspector shall have the authority to add or delete erosion and sediment controls as needed in the field as site conditions warrant.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. Temporary soil stabilization shall be applied within seven (7) days to denuded areas that may not be at final grade but will remain undisturbed for longer than fourteen (14) days. No area shall be left denuded for any period longer than thirty days.

2. All erosion and sediment control measures are to be placed prior to or as the first step in grading. First areas to be cleared are to be those required for the perimeter controls.

3. All water, storm and sanitary sewer lines not in streets are to be mulched and seeded within 5 days after backfill. No more than 500 feet of trenches are to be open at any one time.

4. Electric power, telephone and gas supply trenches are to be compacted, seeded and mulched within 5 days after backfill.

5. All temporary earth berms, diversion and sediment control dams are to be mulched and seeded for temporary vegetation cover immediately after grading, straw or hay mulch is required. The same applies to all soil stockpiles.

6. Any disturbed area not covered by note #1 above and not paved, sodded or built upon by November 1st, or disturbed after that date, is to be mulched with hay or straw mulched at the rate of two tons per acre and over-seeded no later than November 15th.

7. At the completion of construction projects and prior to the release of the bond, all temporary sediment and erosion controls shall be removed and all disturbed areas shall be stabilized.

8. No FEMA floodplain exists on this project site

9. All E&S details and design calculations for proposed erosion and control devices shall be in accordance with the latest edition of the Virginia Erosion and Sediment Control handbook and shall comply with the Loudoun County Erosion and Sediment Control ordinance and plan.

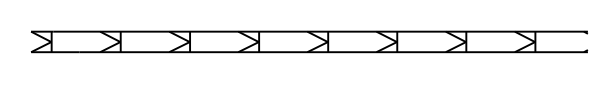

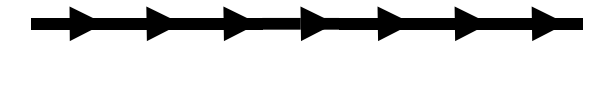
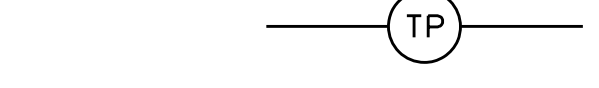
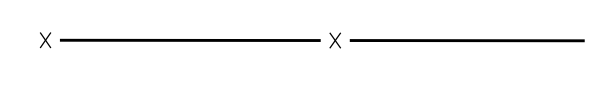




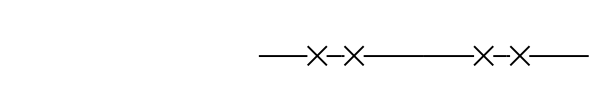
10. No unprotected, disturbed area shall drain to roadway pavements such the subbase, base, or wearing surface is contaminated by silt trapped at low points or inlets.

11. No sediment traps or basins shall be removed without the prior approval of the E&S control inspector.

E-1. If the removal of Brush Silt Barrier is specified by the plans or required by the Engineer, the cost of removal and disposal of brush shall be in accordance with Section 109 of the applicable VDOT Road and Bridge Specifications.

E-2. Rock for Check Dams, Inlet Protection, Erosion Control Stone and Riprap shall be in accordance with Section 203 and Section 414 of the applicable VDOT Road and Bridge Specifications.

E-3. The following symbols are used to depict Erosion Control Items in the plan assembly:

	EC-3B	Denotes Soil Stabilization Mat, S't'd. EC-3 Type B
	TSF	Denotes Temporary Silt Fence, S't'd EC-5
	DD	Denotes Temporary Diversion Dike, S't'd EC-9
	TP	Denotes Tree Preservation Fence, S't'd & Spec. Town of Leesburg DCSM VS-1
	SAF	Denotes Safety Fence
	DIST-A	Denotes Drop Inlet Silt Trap Type A
	DIST-B	Denotes Drop Inlet Silt Trap Type B
	ST	Denotes Temporary Sediment Trap
	PS	Denotes Permanent Seeding
	SSF	Denotes Temporary Silt Fence, S't'd EC-5

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 To Make Your Vision Reality

PROJECT MANAGER: MARK A. GUNN, P.E.



PROJECT NAME: **SYCOLIN ROAD WIDENING PHASE IV**
 FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.
 EROSION & SILTATION CONTROL PLAN NOTES

Loudoun County, Virginia

ASSOCIATED PLAN NUMBER: **TLCI-2016-0002**
 C.I.P. NUMBER: **U000-253-312**
 VDOT PROJ. NO. **U000-253-312**

TOWN NUMBER: TBD

Sheet
1P(1) of 20

Submission DATE: 02/21/2018



Nikhil V. Deshpande
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