

ADDENDUM #1
BID DOCUMENTS FOR
Wootton Ave Water Line Replacement
POOLESVILLE, MARYLAND
CONTRACT 100.047
February 12, 2024
4:00 p.m.

This addendum is issued as part of the Bid Documents for the above referenced project. The changes incorporated into this addendum shall be considered as part of the documents and shall supersede, amend, add to, clarify, or subtract from those conditions shown in the original documents. The bidder shall take care to incorporate modifications herein with all trades and disciplines related to the work. The bidder shall acknowledge receipt of this addendum on the Bid Form by addendum number and date. Failure to do so may subject the bidder to disqualification.

Response to question;
See attached

Attachments:

Revised Bid Form
Pre-Bid Meeting sign in sheet
Utility Patch Detail
Section 01000- Summary of Work
Revised Plan set

1) the mill and overlay/paving requirement. The drawings show a 5' minimum full depth asphalt replacement in Utility trenches, and then a mill and overlay that appears to be 10' wide. The detail on sheet C-208 detail 3.1 confirms the full depth, but only shows an additional 3" each way for the mill and overlay and shows it as 3", not the 1 1/2" as shown on the drawings
Answer: please refer to Addendum #1 for Standard Road Patch

2) Are services to be transferred to the new main from the existing main? What is the scope of work for the service renewal? Complete renewal or swap over?
Answer: The existing lateral is to be spliced into a section of lateral from the new main.

3) How will unsuitable fill materials be compensated with a Lump sum bid?
Answer: See addendum #1

4) Is new main to have restrained joints?
Answer: See specifications section 02660.

5) Will the town waive any permit fees required?
Answer: No permit fees required.

6) What are work hours?
Answer: See addendum #1

7) How much are liquidated damages?
Answer: See Agreement Article 3.

9) what is the engineers estimate for the project?
Answer: Cost opinion \$750,000. Per contract

10) for the item abandon water main, is it cut and cap only or fill with flow fill?
Answer: drained cut and caped.

11) What station does the main transition from 8" to 10"?
Answers: See revised plan sheets Water Main from Fisher Ave to end on Wooton Ave is now 8"

12) what is the size of the old main?
Answer: DIP

13) What is the materials of the existing mains- both being replaced and lateral connections?

Answer: see previous comments and Revised Wooton Ave plans

24) Station 3+50 what is the size of the connection?

Answer: see previous comments and Revised Wooton Ave plans

25) What are the connections of water service sizes?

Answer: see previous comments and Revised Wooton Ave plans

25) Drawings indicate previous Soil borings were performed. Will you make these available? Sheet C-201 at approx. station 0+70

Answer: See Addendum#1 attachments

26) Please confirm- Station 7+35 approx there is a proposed hydrant- it shows a 10" tee, 10" runout, 10" valve and then a fire hydrant. Would the materials start with a 10 x 6 tee and then 6" materials to the hydrant?

Answer: See Addendum#1 attachments lines servicing fire hydrants are 6"

PRICE SCHEDULE
TOWN OF POOLESVILLE Wootton Avenue Water Line Replacement
BASE BID

The Bidder shall include unit prices for the following items of work. The total of all unit price items shall equal the lump sum price indicated on page BF-4 of the proposal form.

<u>Division</u>	<u>Description</u>	<u>Price</u>
1	General Requirements	_____
2	Excavation for Waterline	_____
3	Placement of watermain and pipe cost Per foot _____	_____
4	Placement of valves and valves cost Per Valve _____	_____
5	Fire Hydrant cost Per Hydrant _____	_____
6	Lateral connection cost Per Connection _____	_____
7	Abandonment of existing waterline	_____
8	Appurtenances	_____
9	Pavement Patching	_____
10	Mobilization/Demobilization	_____
*11	Unsuitable Material Per cubic Yard _____ 100 cubic Yds _____	
*12	Ram Hoe for Rock Per Day _____ 20 Days _____	

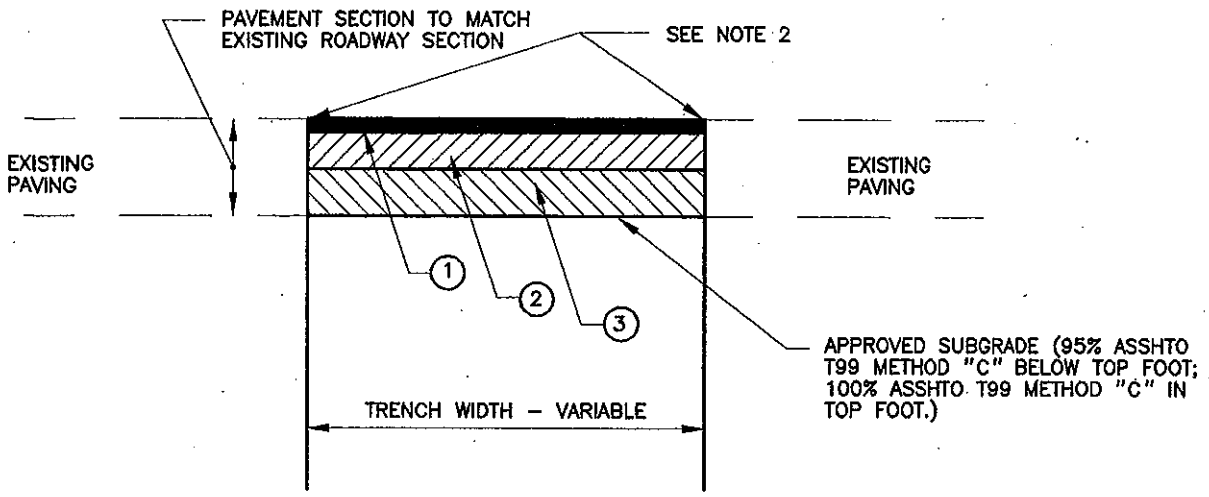
* contingent items to be included in bid total

TOTAL PRICE _____
(Shown on Page BF-4)

Pre-Bid

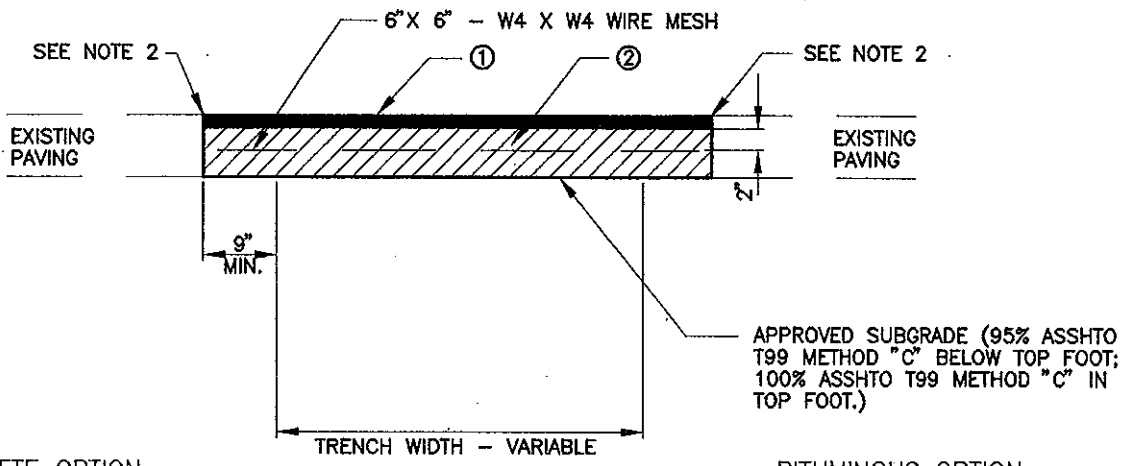
Wootton Ave Waterline

Name	Company	E-Mail
John Strong	Clark / Azar	JStrong@ClarkAzar.com
David Constanza	ECM	David@ecmcorporation.net
DAVE Kogen	JF Creemen	DAVE.KOGEN@JFCSON.US
Jarred Picarelli	Mid-Atlantic Utilities	Jarredp@mautilities.com
NUNO ALVES	Pessoa	NALVES@Pessoa.com
Edson Sibincoski	Sagnes Construction	Edson@SagnesConstruction.com
GARY HANN	GABES SERVICES	GARY@GABESSERVICES.COM
William Duriez	SES	wduriez@snyderenv.com
Hugh Humphrey	Humphrey + Son	Hugh@Humphreyandsons.com
Dan Ross	Ross Contracting	Bids@rosscontracting.com
Jesse simoes	Rustler construction	JSimoes2@Rustler.com
JOE CANDIDO	PAX CONSTRUCTION	JCANDIDO@PATUXENTCONSTRUCTION.COM
Mike Meindx	FLB Constructors Inc	Michaelm@francoshilberty Bridge.com



- ① TWO - 1 1/2" BITUMINOUS CONCRETE SURFACE COURSE
- ② BITUMINOUS CONCRETE BASE COURSE SEE NOTE 3.
- ③ SUBBASE MATERIAL SEE NOTE 3

ARTERIAL ROADWAY
(OR HIGHER CLASSIFICATION)



CONCRETE OPTION

- ① 1 1/2" BITUMINOUS CONCRETE SURFACE COURSE
- ② 6" MINIMUM CONCRETE PATCH

PRIMARY ROADWAY
(OR LOWER CLASSIFICATION)

BITUMINOUS OPTION

- ① 1 1/2" BITUMINOUS CONCRETE SURFACE COURSE
- ② BITUMINOUS CONCRETE BASE COURSE SEE NOTE 3

GENERAL NOTES

1. REFER TO M.C.D.O.T. UTILITY PATCH SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.
2. EXISTING PAVEMENT MUST BE SAW CUT FULL DEPTH PRIOR TO EXCAVATION.
3. BASE COURSE AND SUBBASE MATERIAL SHALL CONFORM TO APPROPRIATE ROADWAY CLASSIFICATION DESIGN STANDARD OR MATCH EXISTING CONDITION, WHICHEVER IS GREATER.

P:\DDT\STD\MCS0102 6-24-94 11:210 or EST

APPROVED JAN 5/96
DATE

John M. ...
DIRECTOR, DEPT. OF TRANS.
Ed ...
CHIEF, DIV. OF ENG. SERVICES

REVISED

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION

UTILITY PATCH
IN FLEXIBLE PAVEMENT

STANDARD NO. MC-801.02

CENTERLINE EXIST. PAVING

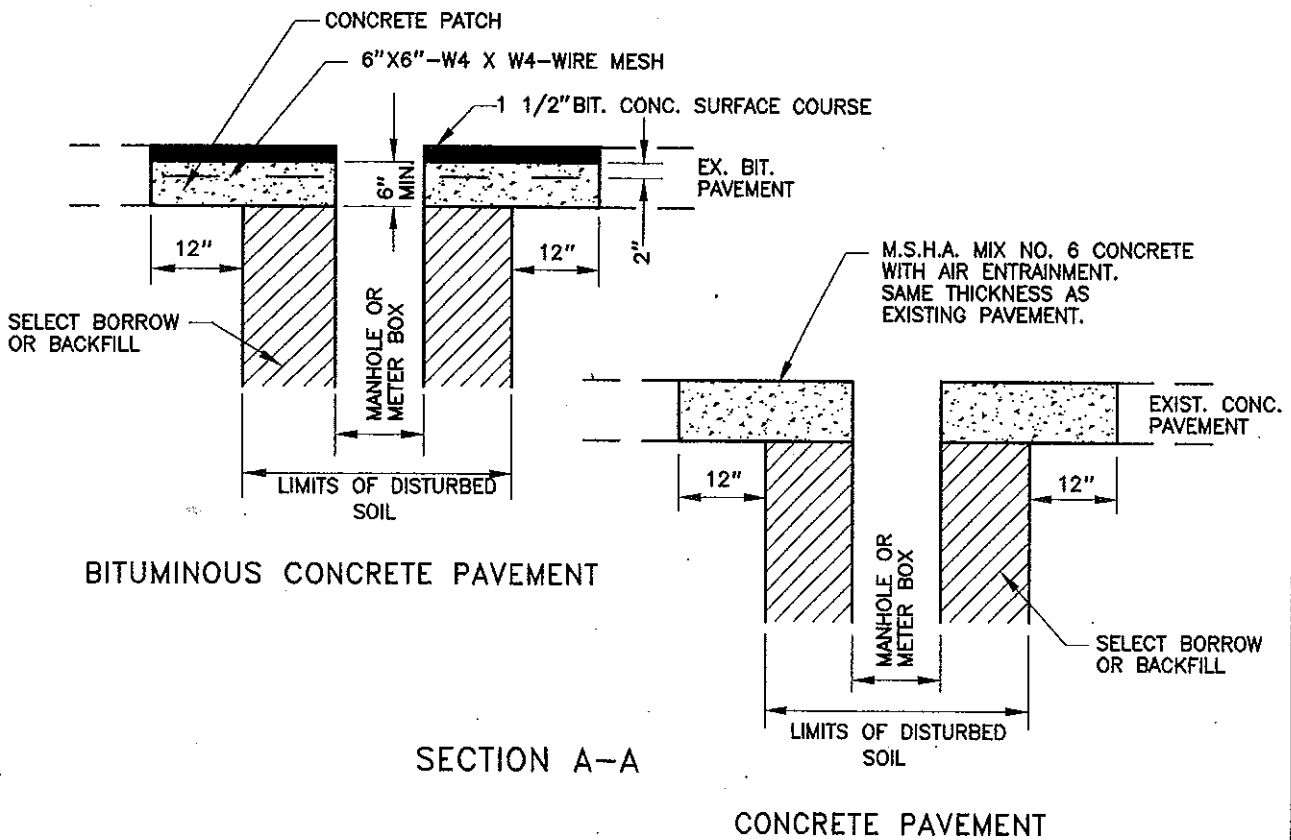
VARIABLE

4' - 6" MIN.

MANHOLE OR
METER BOX

4' - 6" MIN.

APPURTENANCE



PAJ01TSD\MC80103 6-24-94 11:34:45 am EST

APPROVED JAN 5 / 96
DATE

Bradley Neal
DIRECTOR, DEPT. OF TRANS.

Edgar [Signature]
CHIEF, DIV. OF ENG. SERVICES

REVISED

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION

UTILITY PATCH
FOR APPURTENANCE ADJUSTMENT

STANDARD NO. MC-801.03

SECTION 01000

SUMMARY OF WORK

I. GENERAL

A. Contract Documents

The General Conditions and all applicable requirements of the Contract Documents apply to the Work of the Specifications.

B. Scope

1. Provide labor, materials, equipment and services and perform all operations required for completion of work of this contract as specified or indicated in The on the Drawings.

2. The Work of this contract includes, but is not limited to:

Removal of existing roofing and replacement of roofing per specifications.

Please refer to contract documents for specific information.

All work will be constructed in the Town of Poolesville, located in Montgomery County, Maryland.

C. Standards and Publications

Standards and other publications referenced in these specifications shall be of the issues in effect at time of bidding and form a part of this contract.

D. Work Schedule

1. For this Contract, the Owner will observe a five (5) day work week, Monday through Friday, eight hours a day. The Owner observes the following holidays: New Year's Day, Martin Luther King's Birthday, George Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day and the following Friday, Christmas Day, State and National Election Days and Inauguration Day.

2. The Contractor shall limit the workday from 7 a.m. to 5 p.m. The Contractor shall limit work that impedes traffic flow on MSHA and mitigate impediments to Town Roads to between 9 a.m. and 3 p.m. on weekdays. Should the Contractor deem it necessary to work on Saturdays, Sundays, Holidays or longer than eight hours per day in order to comply with his construction schedule, or because of an emergency, the Contractor shall request permission from the Town Engineer to do so. If, in the opinion of the Town Engineer the need is bona fide, he will authorize the Contractor to work such hours as may be necessary.

3. Costs incurred by the Owner and Engineer arising from approved lengthening of hours, including the furnishing of Owner's Representatives for the observation of work, shall be

the Contractor's responsibility and the cost thereof may be deducted from monies owed the Contractor.

4. All work shall be performed in accordance with these Contract Specifications titled Roadway Repairs and Repaving at Various Locations.

II. INSTALLATION AND EXECUTION

A. Workmanship

All work and execution of same shall be completed in a first class workmanlike manner and shall conform to the best practice of the trade. The Engineer shall, if he deems necessary, reject and cause to be redone or replaced any work or manufactured item regardless of any prior approval of data or method and such reconstruction or replacement shall be completed at the sole expense of the Contractor.

B. Construction Location Verification

Contractor shall verify the location of all proposed Work prior to construction.

C. Project Progress Meetings

Project Progress Meetings will be held periodically in order that the Engineer can review the status of the Project. The Contractor's superintendent or project manager shall attend the meeting and accompany the Engineer on observation of the job site. During inclement weather, the Contractor, if required, shall provide space in his field office for the meeting. The date and time of the meetings shall be as directed by the Engineer. The holding of the Project Meetings shall not relieve the Contractor from cooperating with the Engineer should the Engineer desire additional visits to the site.

D. Archaeological Artifacts

All articles of historical or scientific value, including coins, fossils, and articles of antiquity, which may be uncovered or otherwise brought to the attention of the Contractor during the course of the Contract shall remain the property of the Owner of the property on which the articles reside. Such findings shall immediately be reported to the Engineer who will determine the method of removal, where necessary.

E. Contractor Staging Area

The Town Director of the Waste Water Plant.

III. Not Used.

IV. MEASUREMENT AND PAYMENT

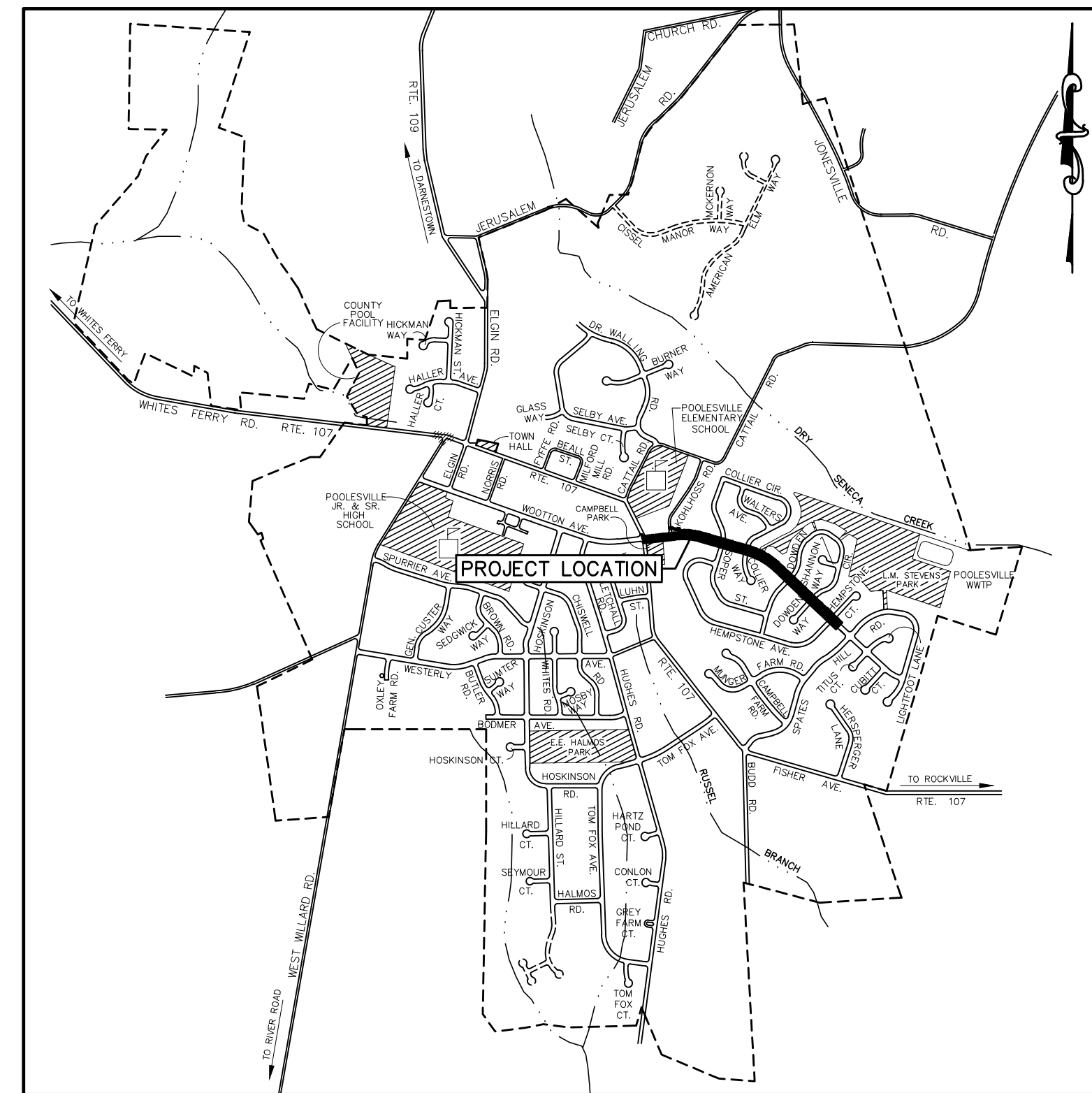
Except as otherwise noted herein, providing for and complying with requirements set forth in this Section will not be measured for payment but the cost thereof will be considered incidental to the Contract.

* * *

TOWN OF POOLESVILLE WOOTTON AVENUE WATERLINE REPLACEMENT

WOOTTON AVENUE POOLESVILLE, MARYLAND 20837

INDEX OF DRAWINGS		
SHEET	DRAWING	TITLE
VOLUME I - SITE CONSTRUCTION		
GENERAL		
1	G-001	COVER SHEET
2	G-002	GENERAL NOTES
3	G-003	SOIL BORING LOGS
4	G-004	SOIL BORING LOGS
CIVIL/SITE PLAN		
5	C-201	WATERLINE PLAN AND PROFILE
6	C-202	WATERLINE PLAN AND PROFILE (CONT.)
7	C-203	WATERLINE PLAN AND PROFILE (CONT.)
8	C-204	WATERLINE PLAN AND PROFILE (CONT.)
9	C-205	WATERLINE PLAN AND PROFILE (CONT.)
10	C-206	WATERLINE PLAN AND PROFILE (CONT.)
11	C-207	WATERLINE PLAN AND PROFILE (CONT.)
12	C-208	SITE DETAILS
13	C-209	SITE DETAILS (CONT.)
14	C-800	TEMPORARY TRAFFIC CONTROL NOTES AND DETAILS
15	C-801	TEMPORARY TRAFFIC CONTROL NOTES AND DETAILS (CONT.)



VICINITY MAP
SCALE: 1" = 2000'

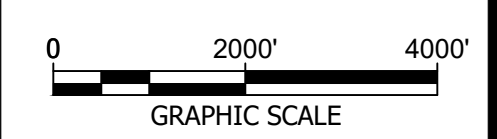
CLARK | AZAR & ASSOCIATES
20440 Century Blvd, Suite 220
Germantown, MD, 20874
T(301) 528-2010
www.clarkazar.com
A Woman Owned Small Business



PROFESSIONAL CERTIFICATION:
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED
OR APPROVED BY ME, AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 31168
EXPIRATION DATE: 1/12/2025

WOOTTON AVENUE WATERLINE
WOOTTON AVENUE
POOLESVILLE, MARYLAND

NO.	DATE	DESCRIPTION



DATE: JUNE 2023
CAA PROJECT NO.: 100.047
DRAWN BY: MC
CHECKED BY: JA

SHEET TITLE
COVER SHEET

SHEET
G-001

GENERAL NOTES:

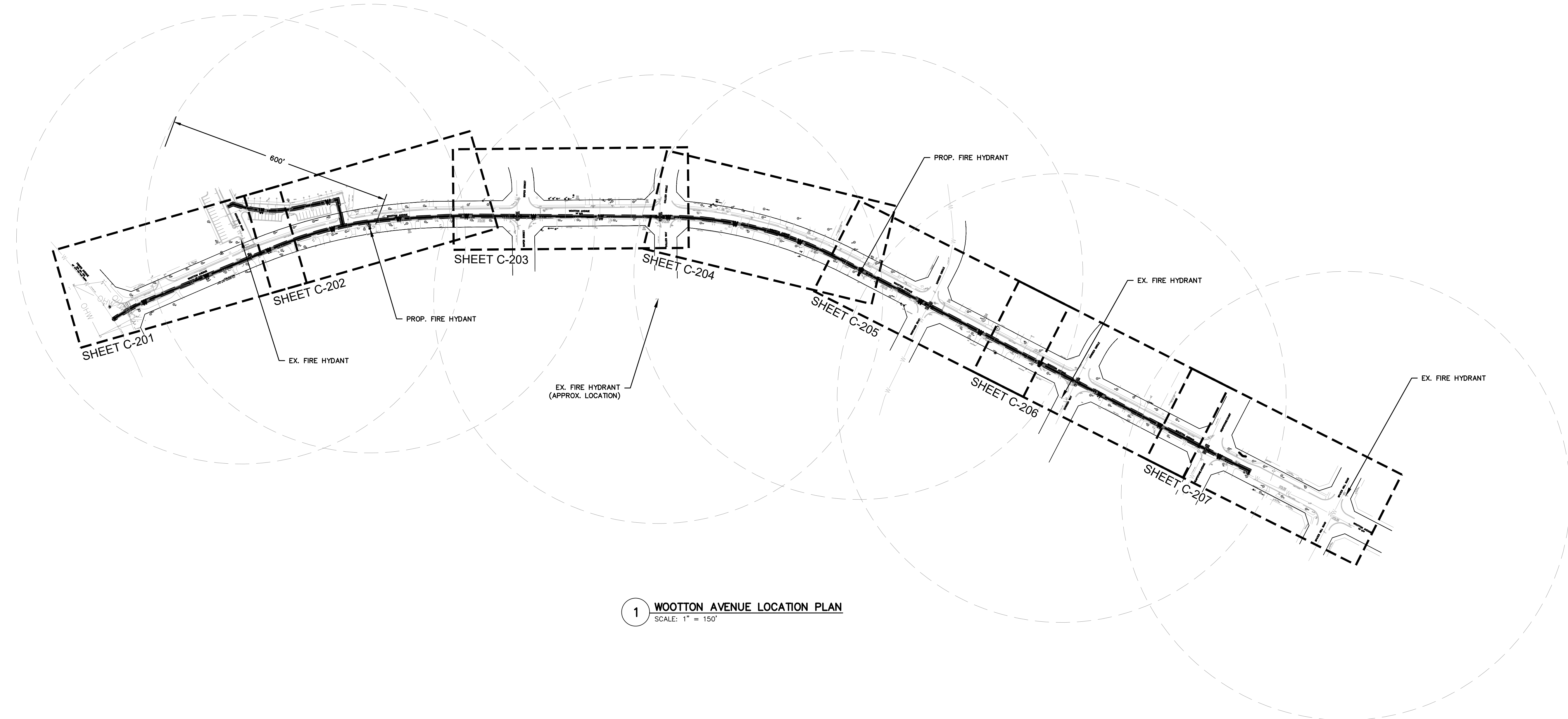
- EXISTING TOPOGRAPHIC CONDITIONS BASED ON FIELD SURVEY PERFORMED BY POTOMAC VALLEY SURVEYS, DATED JUNE 9, 2022 AND SUPPLEMENTED BY MONTGOMERY COUNTY GIS DATA AND TOWN OF POOLESVILLE RECORDS. NO BOUNDARY SURVEY PERFORMED. PROPERTY LINES SHOWN ARE BASED ON AVAILABLE RECORDS.
- THE HORIZONTAL DATUM OF THIS SURVEY IS MARYLAND STATE PLANE (NAD83/11). THE VERTICAL DATUM OF THIS SURVEY IS NAVD88.
- THE LOCATION OF UNDERGROUND UTILITIES IS APPROXIMATE, CONTRACTOR TO VERIFY IN THE FIELD AS NECESSARY. ABOVE GROUND UTILITIES & IMPROVEMENTS FIELD LOCATED BY POTOMAC VALLEY SURVEYS, INC. INVERT ELEVATIONS HAVE BEEN OBTAINED WHERE ACCESS IS AVAILABLE. ALL CONTRACTORS MUST CALL "MISS UTILITY" PRIOR TO ANY EXCAVATIONS.
- ALL WORK TO OCCUR IN TOWN OF POOLESVILLE RIGHT-OF-WAY.
- NRCS WEB SOIL SURVEY IDENTIFIES SOILS AT THIS SITE AS PENN SILT LOAM (HSG-"B") AND READINGTON SILT LOAM (HSG-"C").
- ALL PROPOSED WORK IS OUTSIDE THE MAPPED FLOODPLAIN PER FEMA FLOOD INSURANCE RATE MAPS NUMBER 24031C0143D AND 24031C0144D, BOTH DATED SEPTEMBER 29, 2006.
- DETAIL DRAWINGS AND SCHEDULES DESCRIBE CONSTRUCTION AT GIVEN AREAS. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL UTILIZE EQUIVALENT CONSTRUCTION METHODS IN ALL AREAS NOT DETAILED.
- ALL NOTES ON DRAWINGS SHALL BE ASSUMED AS TYPICAL, UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS.
- ALL NOTES SUPPLEMENT THE PLANS AND ARE IN NO WAY TO BE CONSIDERED AS EXCLUDING IN ANY ITEM IN THEM.
- IT SHALL BE THE DUTY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS GIVEN ON THE DRAWINGS AND TO REPORT TO THE ENGINEER ANY ERROR OR INCONSISTENCY WITH THE ACTUAL CIRCUMSTANCES IN THE FIELD BEFORE COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ITEMS REQUIRED TO PROVIDE A SITE CLEAR OF OBSTRUCTIONS (ABOVE & BELOW GRADE) AND GRADED TO SPECIFIED ELEVATIONS.
- ALL BIDDERS: THE CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIM/HERSELF WITH THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED PRIOR TO SUBMITTING BID.
- IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL SITE SUB-CONTRACTORS/BIDDERS WITH FULL AND COMPLETE SETS OF ALL DRAWINGS FOR THEIR USE IN PREPARING BIDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DELAYS AND COSTS ARISING DURING CONSTRUCTION FROM BIDS BASED UPON INCOMPLETE SETS OF SITE BID DOCUMENTS.
- CLARK | AZAR & ASSOCIATES, INC. WILL RELEASE CAD BASE FILES OF THE SITE CIVIL DRAWINGS TO THE SUCCESSFUL CONTRACTOR AFTER A RELEASE IS SIGNED. NO CAD FILES WILL BE RELEASED PRIOR TO AWARD OF CONTRACT.

GENERAL DEMOLITION NOTES:

- THE CONTRACTOR SHALL BE LIMITED TO STORING MATERIALS IN DESIGNATED STAGING AREAS OR WITHIN THE LIMITS OF DISTURBANCE FOR THIS PROJECT.
- ALL CONSTRUCTION ACTIVITY SHALL BE COORDINATED WITH THE TOWN OF POOLESVILLE.
- CONTRACTOR SHALL PROVIDE REQUIRED SIGNAGE AND FLAGMEN ALONG ALL PUBLIC STREETS ALONG THE WORK AREA OR ADJACENT TO THE WORK AREA, TO ASSURE THE SAFETY OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC IF REQUIRED. ALL TRAFFIC CONTROLS MUST BE IN ACCORDANCE WITH THE MOST CURRENT MUTCD AND MDMUTCD REQUIREMENTS AND WITH THE MOST CURRENT MONTGOMERY COUNTY DOT AND TOWN OF POOLESVILLE WORK ZONE TRAFFIC CONTROL STANDARDS AND DETAILS.
- ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE MOST CURRENT APPLICABLE EPA, OSHA, AND MOSHA REGULATIONS AND MUST COMPLY WITH THE MOST CURRENT FEDERAL, STATE AND/OR LOCAL REGULATIONS AND CODES APPLICABLE TO SAID WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK WITH REPRESENTATIVE UTILITY COMPANIES AND IMPLEMENTING REQUIRED UTILITY-RELATED WORK ACCORDINGLY.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR OWNERS REPRESENTATIVE IMMEDIATELY UPON ENCOUNTERING ANY HAZARDOUS MATERIALS. THE CONTRACTOR SHALL DOCUMENT SAME TO THE OWNER TO OBTAIN DIRECTION AS TO THE APPROPRIATE ACTION(S) TO BE TAKEN.
- WHERE NEW WORK IS TO BE DONE, CARE SHALL BE TAKEN TO PROTECT ALL EXISTING ADJACENT SURFACES, STRUCTURES, AND AREAS FROM DAMAGE. ANY ITEM TO SHOWN TO REMAIN THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BACKFILL EXCAVATED AREAS WITH ACCEPTABLE MATERIAL, AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- IN THE EVENT THAT, DURING DEMOLITION OR CONSTRUCTION ACTIVITIES THE CONTRACTOR ENCOUNTERS ANY EXISTING UTILITIES/STRUCTURES NOT SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE OWNER FOR DIRECTIONS PRIOR TO PROCEEDING WITH ANY WORK.
- ALL SAWCUTS ARE TO BE STRAIGHT AND EVEN, JAGGED EDGES WILL NOT BE ACCEPTED.
- PRIOR TO THE START OF CONSTRUCTION AN ON-SITE MEETING WITH TOWN OF POOLESVILLE AND THEIR GENERAL CONTRACTOR SHALL BE HELD TO DISCUSS TIMING OF OPERATIONS AND CONSTRUCTION COORDINATION.
- BEFORE ANY EXCAVATION BELOW SUBGRADE IS ALLOWED, THE CONTRACTOR SHALL VERIFY THAT NO UTILITY PIPING IS IN THE VICINITY OF EXCAVATION.
- THE CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL UNDERGROUND UTILITIES IN THE AREA OF PROPOSED WORK ARE LOCATED PRIOR TO COMMENCING CONSTRUCTION WORK.
- THE CONTRACTOR IS ALSO RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES (NOT LOCATED BY MISS UTILITY) WITHIN CONSTRUCTION LIMITS AT THEIR EXPENSE. ALL UTILITIES SHOWN ON THE PLANS ARE PROVIDED FOR INFORMATION ONLY AND SHALL BE CONSIDERED APPROXIMATE. THE TOWN OF POOLESVILLE WILL NOT LOCATE ANY OF THE EXISTING UNDERGROUND UTILITIES. ANY UTILITIES OR OTHER UNDERGROUND FACILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.
- WHEN AN ITEM IS STATED TO BE REMOVED, IT SHALL INCLUDE REMOVAL OF ANY AND ALL APPURTENANCES ABOVE OR BELOW GRADE ASSOCIATED WITH SAID ITEM.
- ALL SIDEWALKS ARE TO BE REMOVED AT THE NEAREST WHOLE PANEL.
- ALL CURBING TO BE REMOVED AT THE NEAREST JOINT.
- ALL GRASS AREAS TO BE DISTURBED ARE TO BE STABILIZED WITH SEED AND MULCH.

GENERAL CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL TEST PIT ALL WATER, ELECTRIC, AND GAS LINES, AND AT POINTS OF CONNECTION FOR STORM DRAIN AND SEWER WITHIN THE LIMITS OF DISTURBANCE TO ESTABLISH LOCATION AND EXISTING DEPTHS. THE CONTRACTOR SHALL TEST PIT ALONG THE EXISTING LINES TO REMAIN AT CROSSINGS AND PROVIDE FIELD LOCATED INVERTS TO THE ENGINEER OF RECORD PRIOR TO CLEARING.
- THE CONTRACTOR SHALL COMPLY WITH ALL TOWN OF POOLESVILLE NOISE ORDINANCES.
- CONCRETE ENCASING SHALL BE USED WHERE ANY PROPOSED WATER MAIN JOINTS ARE LESS THAN 10 FEET FROM ANY EXISTING SEWER AND LESS THAN 6 FEET VERTICALLY ABOVE ANY EXISTING SEWER. WHERE JOINT-LESS PIPE IS USED, CONCRETE ENCASING SHALL NOT BE REQUIRED.



1 WOOTTON AVENUE LOCATION PLAN
SCALE: 1" = 150'

CLARK | AZAR & ASSOCIATES
20440 Century Blvd, Suite 220
Germantown, MD, 20874
T(301) 528-2010
www.clarkazar.com
A Woman Owned Small Business



PROFESSIONAL CERTIFICATION:
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 31168
EXPIRATION DATE: 1/12/2025

WOOTTON AVENUE WATERLINE
WOOTTON AVENUE
POOLESVILLE, MARYLAND

NO.	DATE	DESCRIPTION

DATE: JUNE 2023
CAA PROJECT NO.: 100.047
DRAWN BY: MC
CHECKED BY: JA
SHEET TITLE

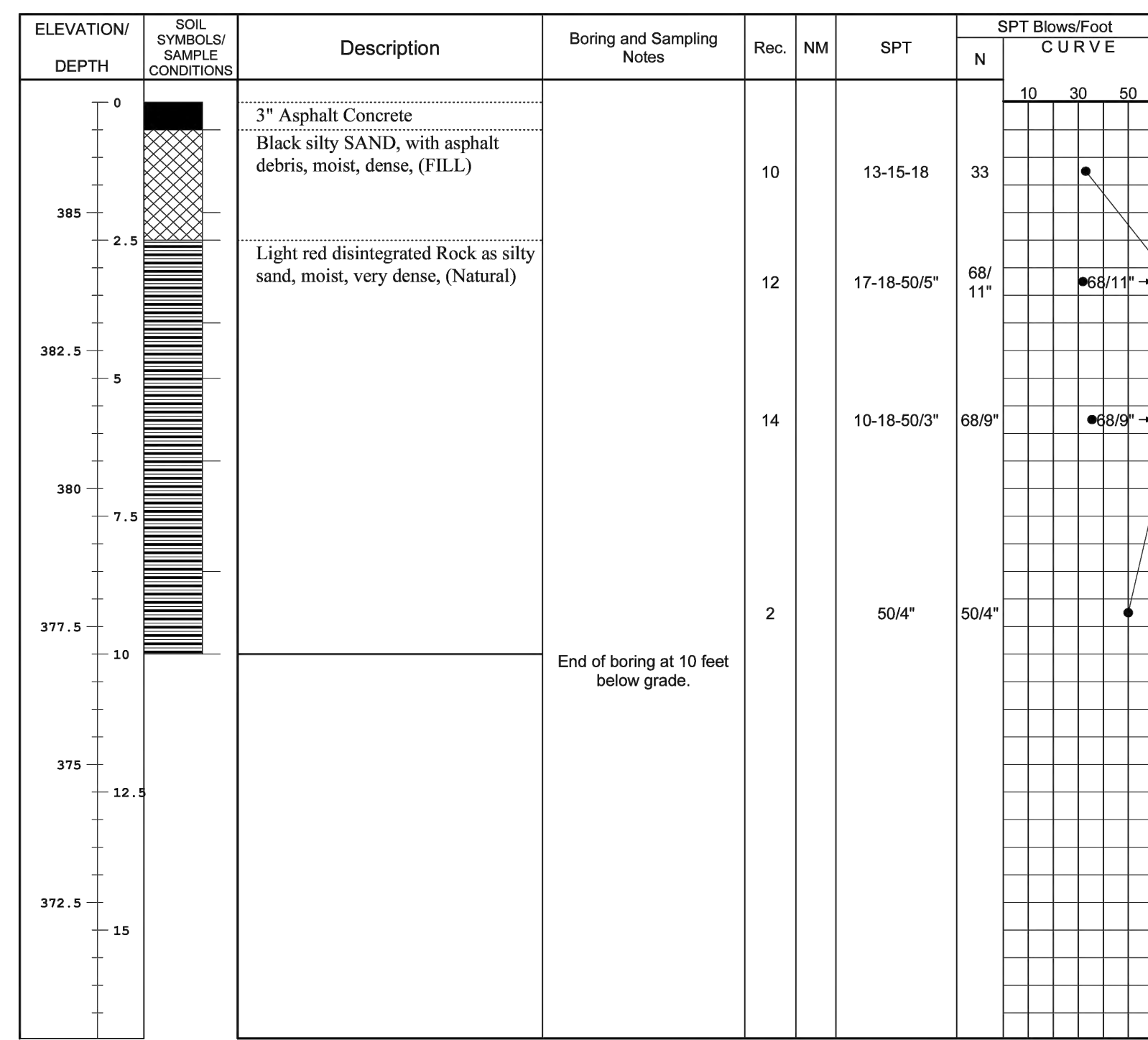
GENERAL NOTES

SHEET
G-002

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wootton Avenue Waterline Replacement Boring No. SB-1
Location Wootton Avenue, Poolesville, Maryland Job # F23026

SAMPLER
Datum MSL Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman Tony
Surf. Elev. 387 Ft. Hammer Drop 30 in. Rock Core Diameter NA Inspector Robel
Date Started 02/13/2023 Pipe Size 2 O.D. in. Boring Method HSA Date Completed 02/13/2023



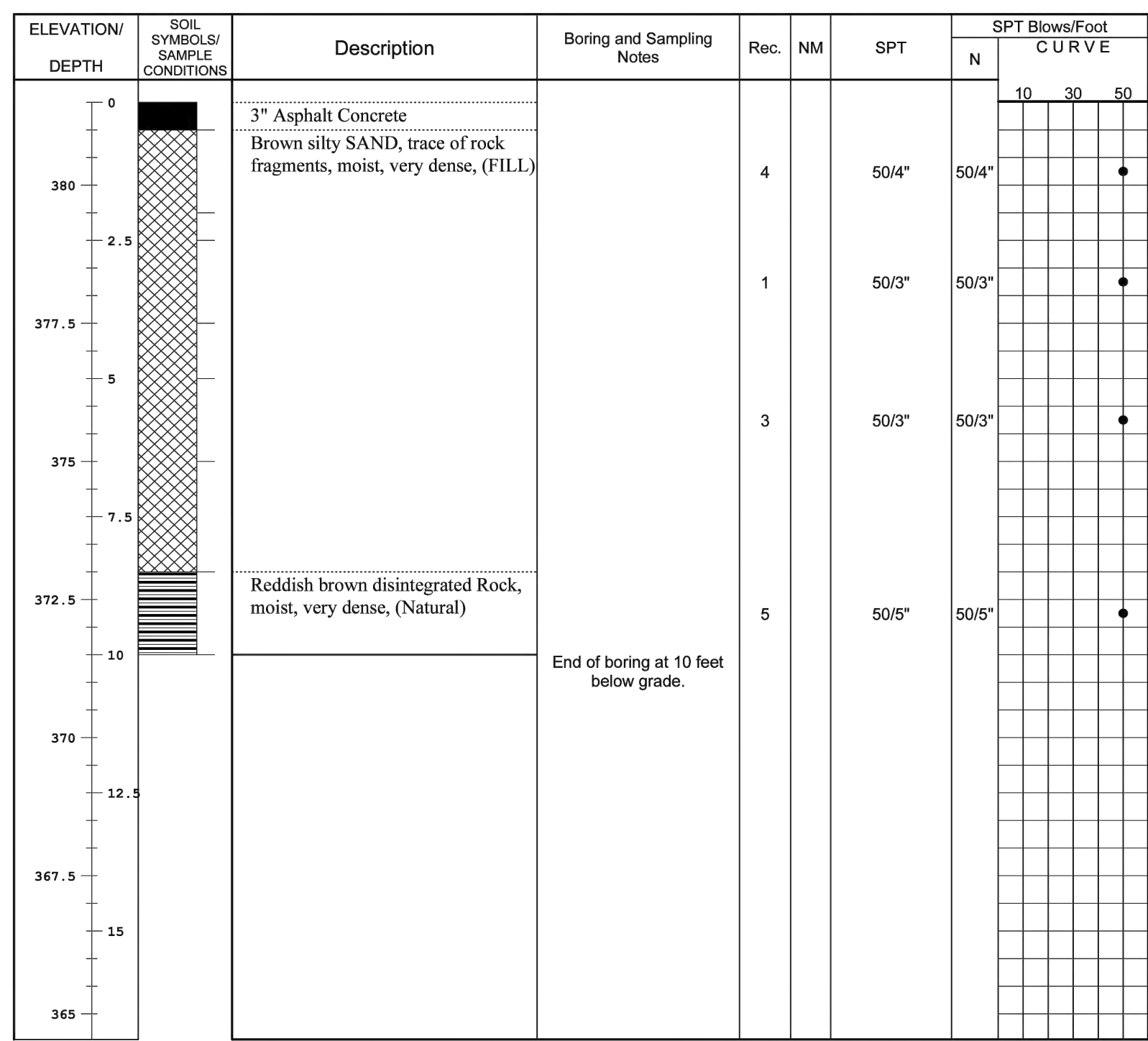
SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED
PT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE
SAMPLE CONDITIONS: D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST
AT COMPLETION: AFTER 24 HRS. _____ HRS. _____ HRS.
GROUND WATER: Dry ft. _____ ft.
CAVE IN DEPTH: 7 ft.
BORING METHOD: HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS.

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wootton Avenue Waterline Replacement Boring No. SB-2
Location Wootton Avenue, Poolesville, Maryland Job # F23026

SAMPLER
Datum MSL Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman Tony
Surf. Elev. 381.5 Ft. Hammer Drop 30 in. Rock Core Diameter NA Inspector Robel
Date Started 02/13/2023 Pipe Size 2 O.D. in. Boring Method HSA Date Completed 02/13/2023



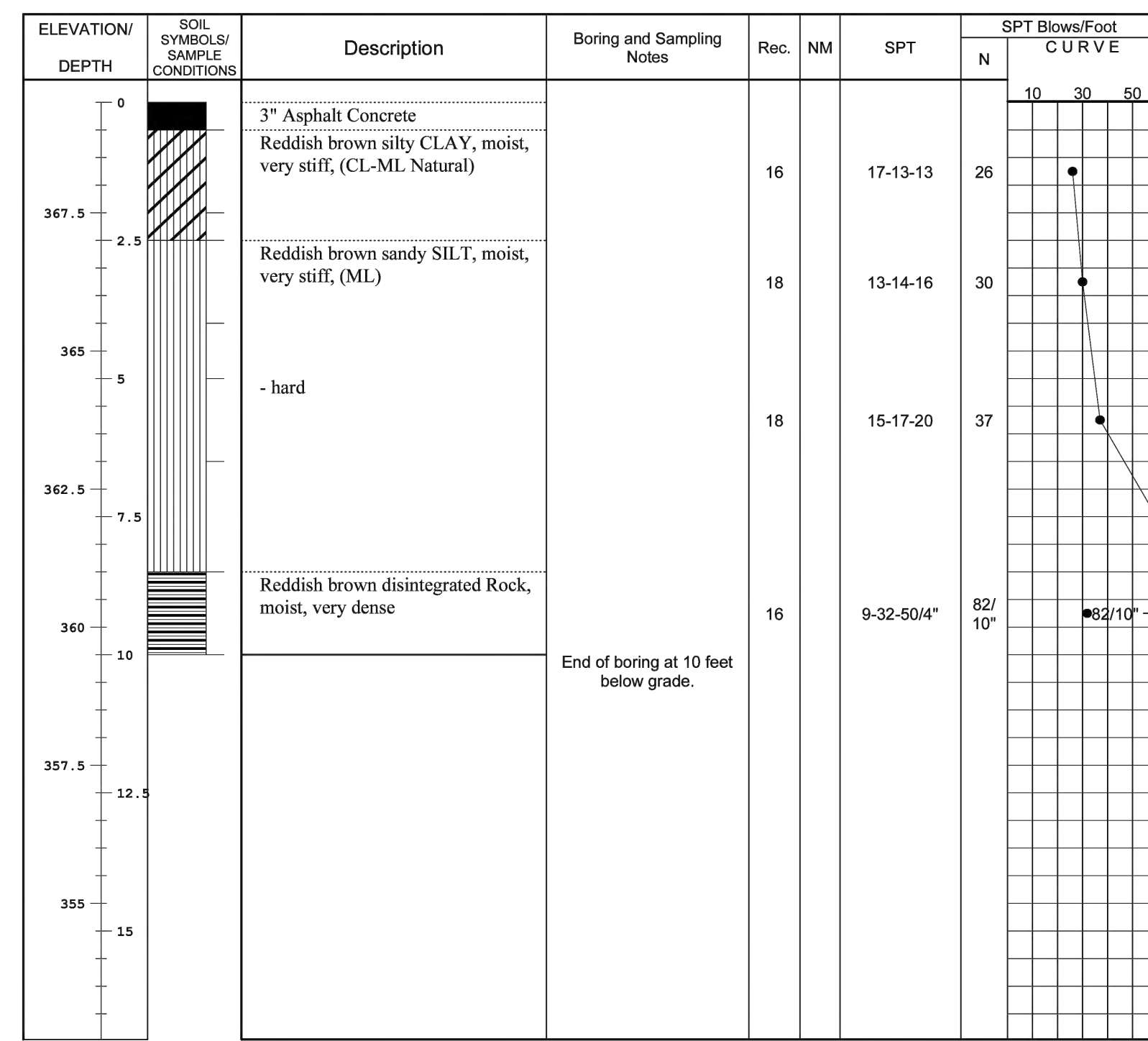
SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED
PT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE
SAMPLE CONDITIONS: D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST
AT COMPLETION: AFTER 24 HRS. _____ HRS. _____ HRS.
GROUND WATER: Dry ft. _____ ft.
CAVE IN DEPTH: 6.5 ft.
BORING METHOD: HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS.

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wootton Avenue Waterline Replacement Boring No. SB-3
Location Wootton Avenue, Poolesville, Maryland Job # F23026

SAMPLER
Datum MSL Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman Tony
Surf. Elev. 369.5 Ft. Hammer Drop 30 in. Rock Core Diameter NA Inspector Robel
Date Started 02/13/2023 Pipe Size 2 O.D. in. Boring Method HSA Date Completed 02/13/2023



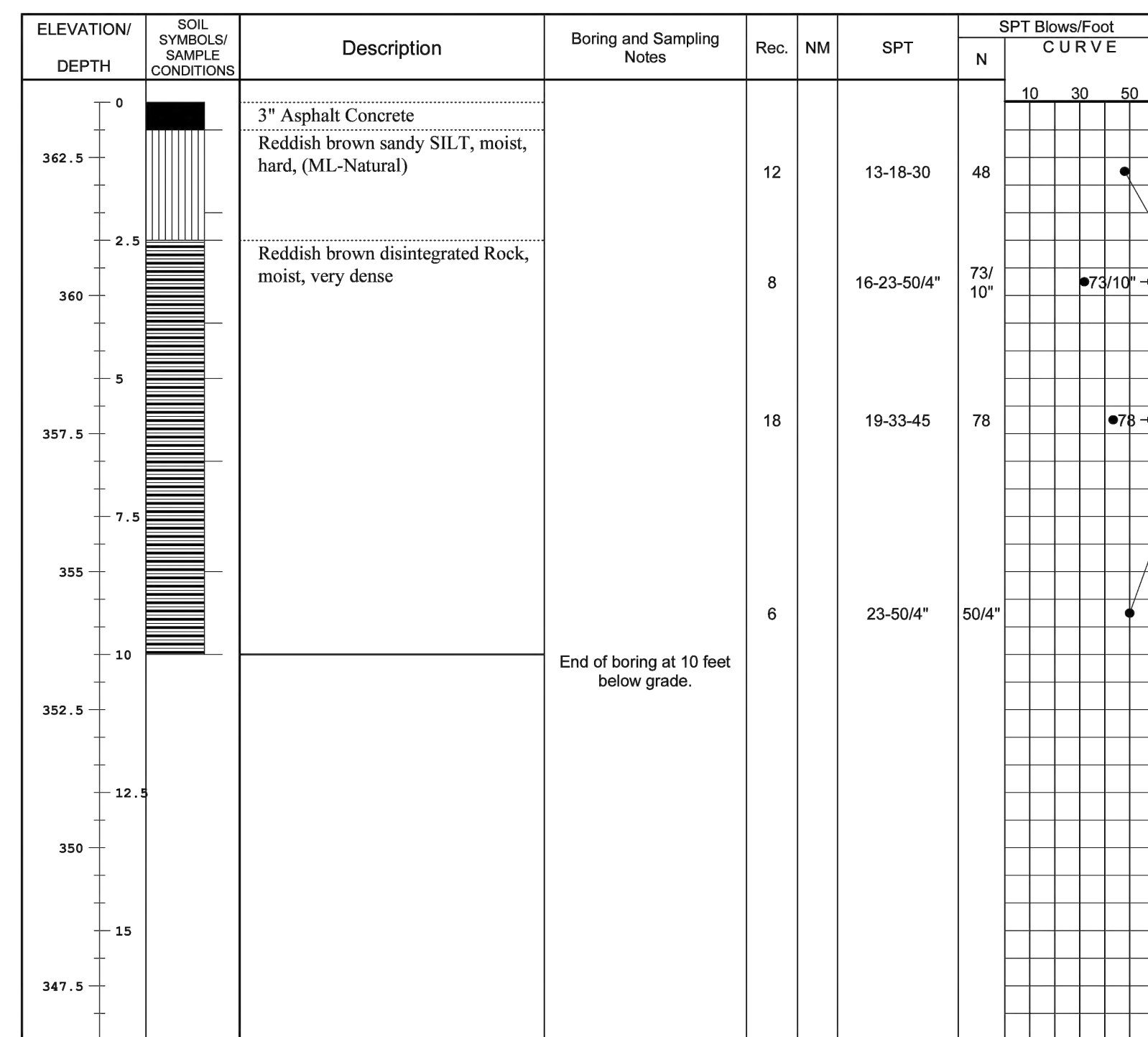
SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED
PT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE
SAMPLE CONDITIONS: D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST
AT COMPLETION: AFTER 24 HRS. _____ HRS. _____ HRS.
GROUND WATER: Dry ft. _____ ft.
CAVE IN DEPTH: 7 ft.
BORING METHOD: HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS.

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wootton Avenue Waterline Replacement Boring No. SB-4
Location Wootton Avenue, Poolesville, Maryland Job # F23026

SAMPLER
Datum MSL Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman Tony
Surf. Elev. 363.5 Ft. Hammer Drop 30 in. Rock Core Diameter NA Inspector Robel
Date Started 02/13/2023 Pipe Size 2 O.D. in. Boring Method HSA Date Completed 02/13/2023



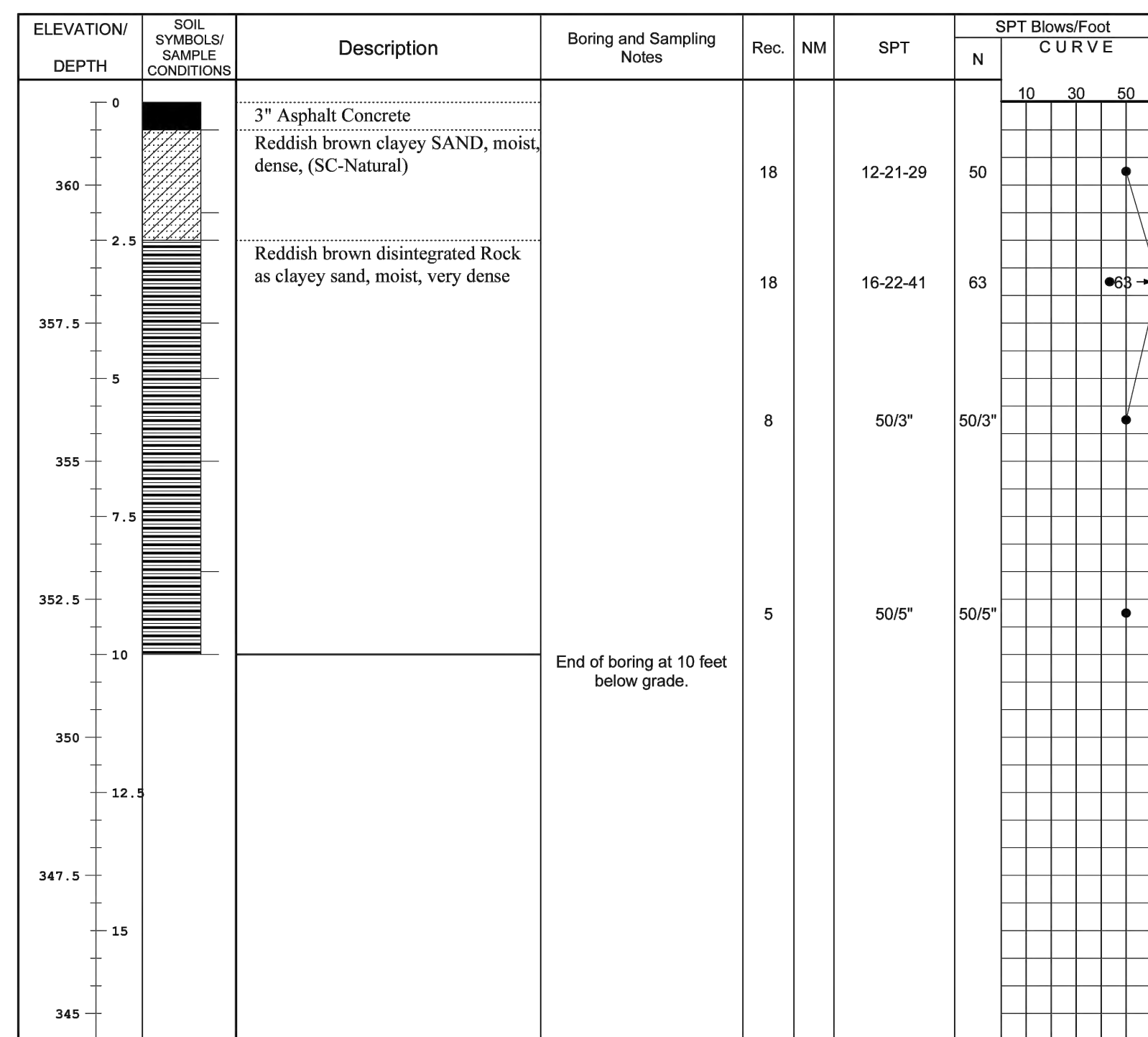
SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED
PT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE
SAMPLE CONDITIONS: D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST
AT COMPLETION: AFTER 24 HRS. _____ HRS. _____ HRS.
GROUND WATER: Dry ft. _____ ft.
CAVE IN DEPTH: 7 ft.
BORING METHOD: HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS.

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wootton Avenue Waterline Replacement Boring No. SB-5
Location Wootton Avenue, Poolesville, Maryland Job # F23026

SAMPLER
Datum MSL Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman Tony
Surf. Elev. 361.5 Ft. Hammer Drop 30 in. Rock Core Diameter NA Inspector Robel
Date Started 02/13/2023 Pipe Size 2 O.D. in. Boring Method HSA Date Completed 02/13/2023



SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED
PT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE
SAMPLE CONDITIONS: D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST
AT COMPLETION: AFTER 24 HRS. _____ HRS. _____ HRS.
GROUND WATER: Dry ft. _____ ft.
CAVE IN DEPTH: 7 ft.
BORING METHOD: HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS.



PROFESSIONAL CERTIFICATION:
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED
OR APPROVED BY ME, AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 31168
EXPIRATION DATE: 1/12/2025

WOOTTON AVENUE WATERLINE

WOOTTON AVENUE
POOLESVILLE, MARYLAND

NO.	DATE	DESCRIPTION

DATE: JUNE 2023
CAA PROJECT NO.: 100.047
DRAWN BY: MC
CHECKED BY: JA
SHEET TITLE

SOIL BORING LOGS

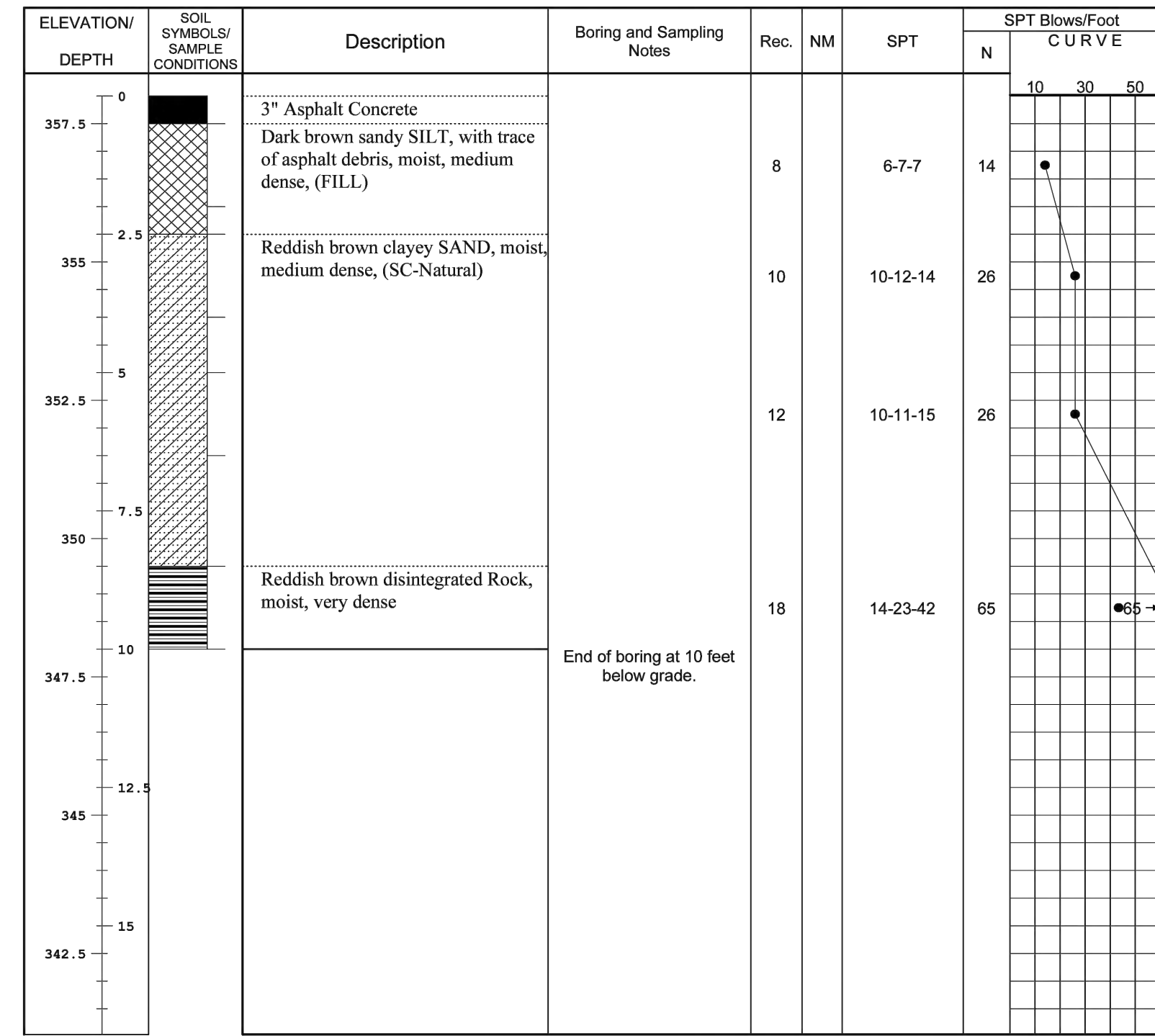
SHEET

G-003

**HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION**

Project Name Wootton Avenue Waterline Replacement Boring No. SB-6
Location Wootton Avenue, Poolesville, Maryland Job # F23026

Datum MSL Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman Tony
Surf. Elev. 358 Ft. Hammer Drop 30 in. Rock Core Diameter NA Inspector Robel
Date Started 02/13/2023 Pipe Size 2 O.D. in. Boring Method HSA Date Completed 02/13/2023



SAMPLER TYPE DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED
PT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE

SAMPLE CONDITIONS
D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST

GROUND WATER AT COMPLETION Dry ft. 7 ft.

CAVE IN DEPTH ft. 7 ft.

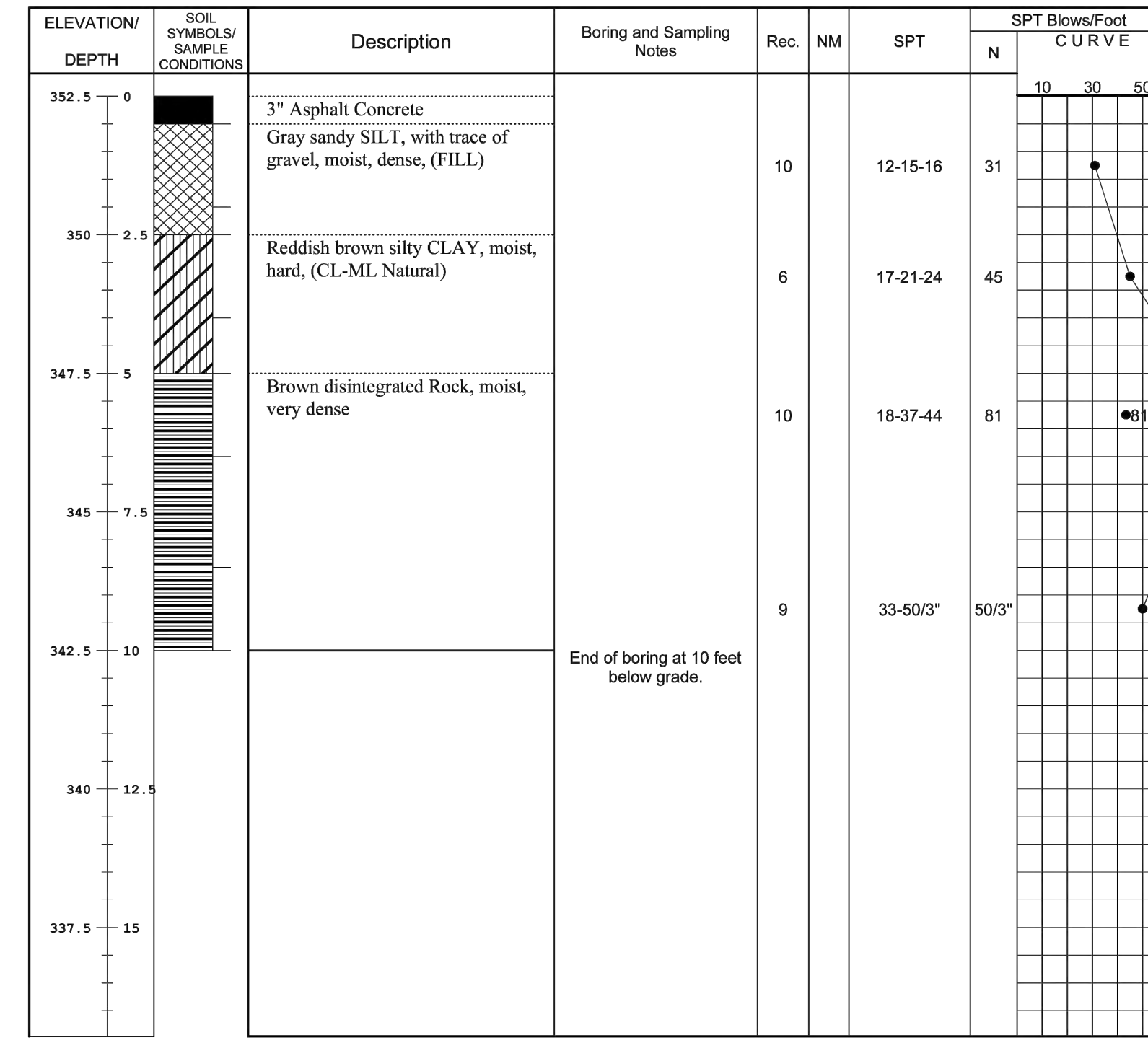
BORING METHOD
HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS.

**HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION**

Project Name Wootton Avenue Waterline Replacement Boring No. SB-7
Location Wootton Avenue, Poolesville, Maryland Job # F23026

Datum MSL Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman Tony
Surf. Elev. 352.5 Ft. Hammer Drop 30 in. Rock Core Diameter NA Inspector Robel
Date Started 02/13/2023 Pipe Size 2 O.D. in. Boring Method HSA Date Completed 02/13/2023



SAMPLER TYPE DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED
PT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE

SAMPLE CONDITIONS
D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST

GROUND WATER AT COMPLETION Dry ft. 7 ft.

CAVE IN DEPTH ft. 7 ft.

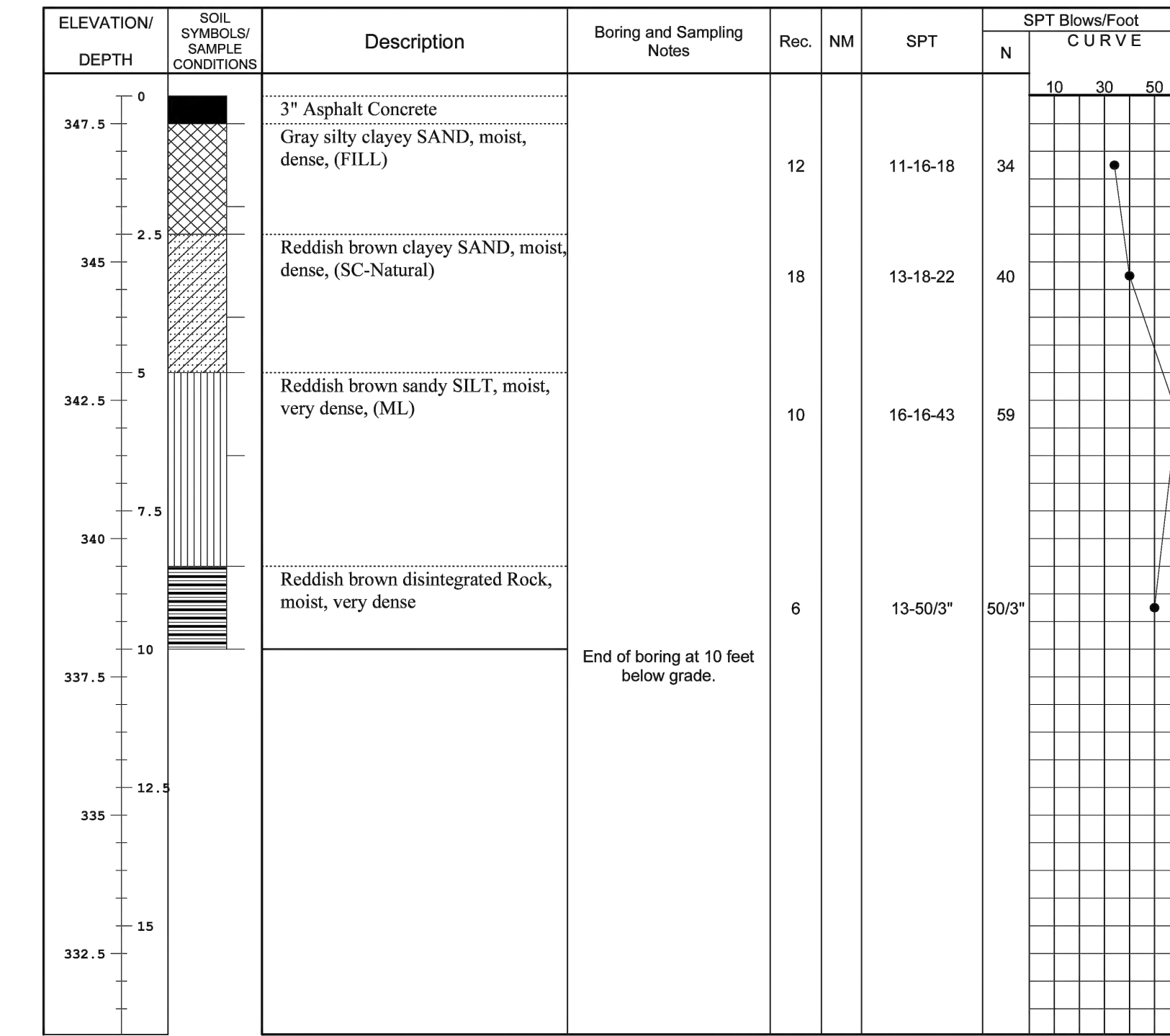
BORING METHOD
HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS.

**HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION**

Project Name Wootton Avenue Waterline Replacement Boring No. SB-8
Location Wootton Avenue, Poolesville, Maryland Job # F23026

Datum MSL Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman Tony
Surf. Elev. 348 Ft. Hammer Drop 30 in. Rock Core Diameter NA Inspector Robel
Date Started 02/13/2023 Pipe Size 2 O.D. in. Boring Method HSA Date Completed 02/13/2023



SAMPLER TYPE DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED
PT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE

SAMPLE CONDITIONS
D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST

GROUND WATER AT COMPLETION Dry ft. 7 ft.

CAVE IN DEPTH ft. 7 ft.

BORING METHOD
HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS.



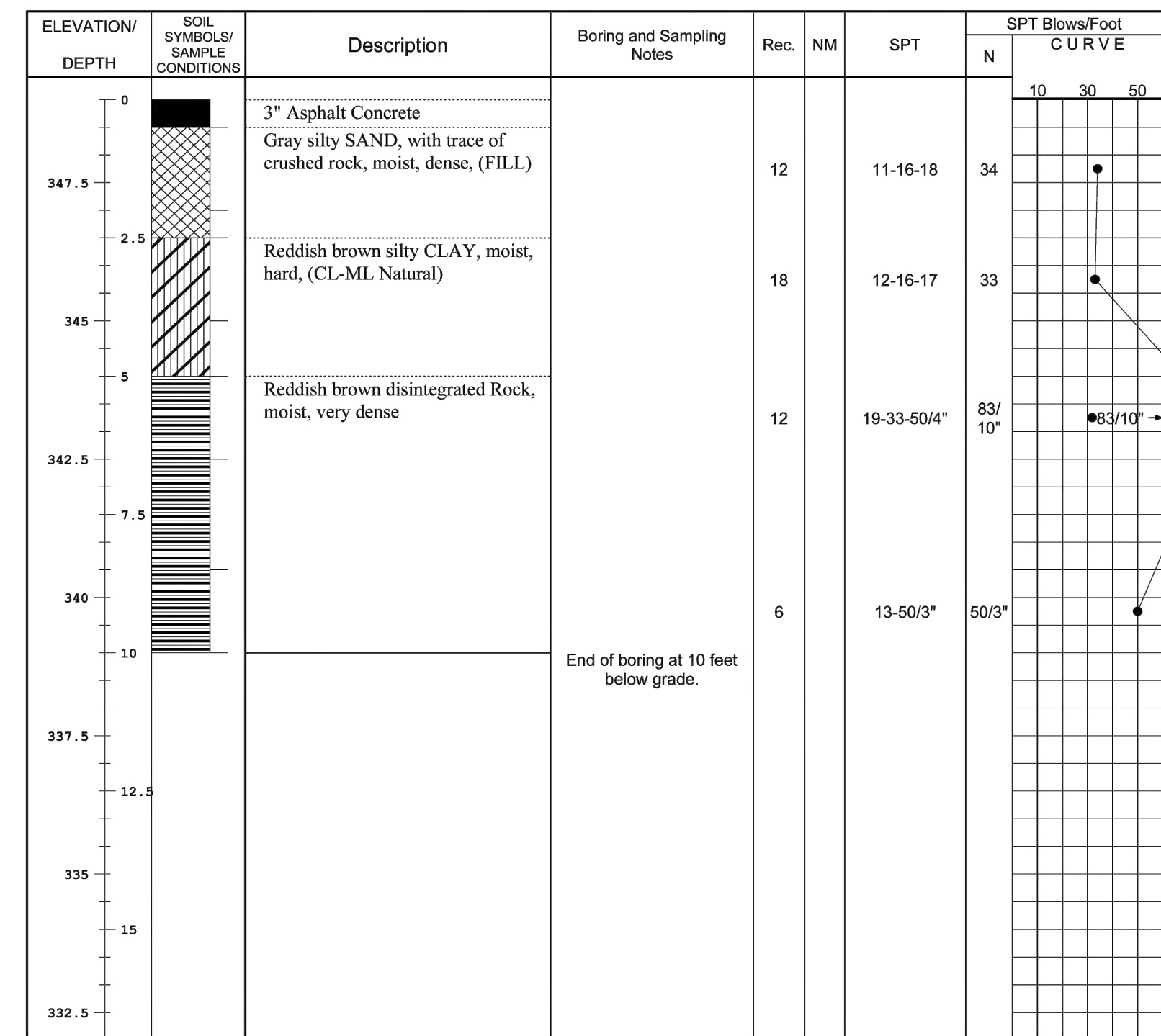
PROFESSIONAL CERTIFICATION:
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED
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LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 31168
EXPIRATION DATE: 1/12/2025

WOOTTON AVENUE WATERLINE
WOOTTON AVENUE
POOLESVILLE, MARYLAND

**HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION**

Project Name Wootton Avenue Waterline Replacement Boring No. SB-9
Location Wootton Avenue, Poolesville, Maryland Job # F23026

Datum MSL Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman Tony
Surf. Elev. 349 Ft. Hammer Drop 30 in. Rock Core Diameter NA Inspector Robel
Date Started 02/13/2023 Pipe Size 2 O.D. in. Boring Method HSA Date Completed 02/13/2023



SAMPLER TYPE DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED
PT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE

SAMPLE CONDITIONS
D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST

GROUND WATER AT COMPLETION Dry ft. 7 ft.

CAVE IN DEPTH ft. 7 ft.

BORING METHOD
HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS.

KEY TO SYMBOLS

Symbol Description

Strata symbols

- Paving
- Fill
- Weathered
- Silty low plasticity clay
- Silt
- Clayey sand

Notes:

- Exploratory borings were drilled on 02/13/2023 using a 6-inch outside diameter hand-auger.
- Water level readings were taken during drilling and upon completion of each boring. Borings were backfilled upon completion.
- Boring locations were selected by project HCEA and staked in the field by HCEA using existing site features as reference.
- These logs are subject to the limitations, conclusions, and recommendations in this report.
- Results of tests conducted on samples recovered are reported on the logs.

NO.	DATE	DESCRIPTION

DATE: JUNE 2023
CAA PROJECT NO.: 100.047
DRAWN BY: MC
CHECKED BY: JA
SHEET TITLE

**SOIL BORING
LOGS**

J:\100,000 Poolesville General\100,047 - Wootton Ave. Waterline\CADD\DWG\C-002 GENERAL NOTES.dwg, 2/12/2024, 11:13 AM



J:\100.000 Poolesville General\100.047 - Wootton Ave. Waterline CAD\DWG_C-200 WATERLINE PLAN AND PROFILE.dwg 2/12/2024 11:14 AM

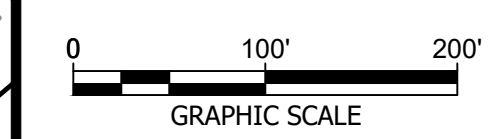
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 LICENSE NO. 31168
 EXPIRATION DATE: 1/12/2025

WOOTTON AVENUE WATERLINE
 WOOTTON AVENUE
 POOLESVILLE, MARYLAND

NO.	DATE	DESCRIPTION



DATE: JUNE 2023
 CAA PROJECT NO.: 100.047
 DRAWN BY: MC
 CHECKED BY: JA
 SHEET TITLE

PROPOSED WATERLINE
 SHEET
C-200



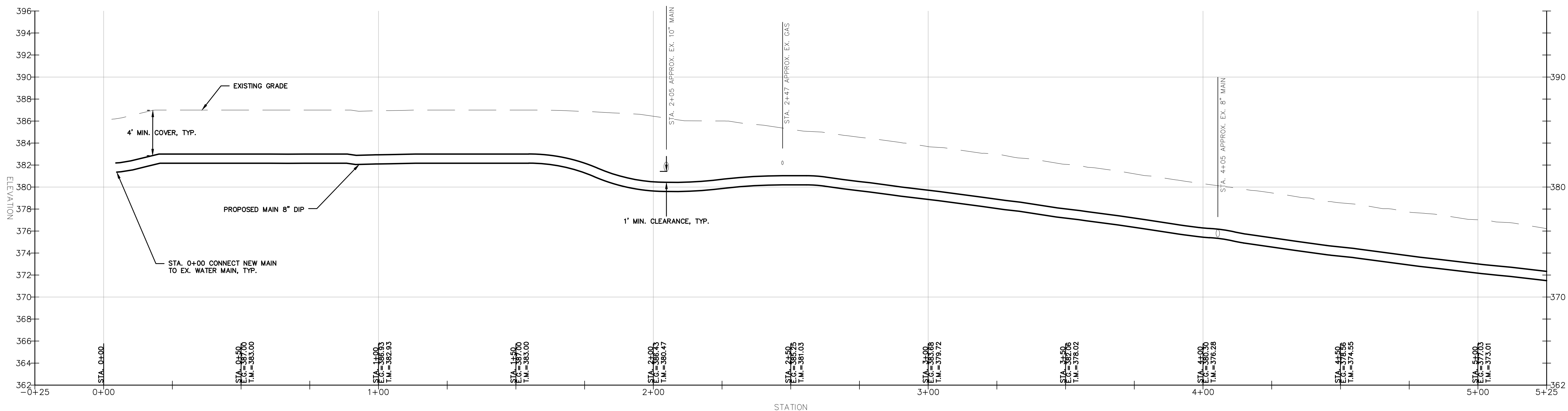
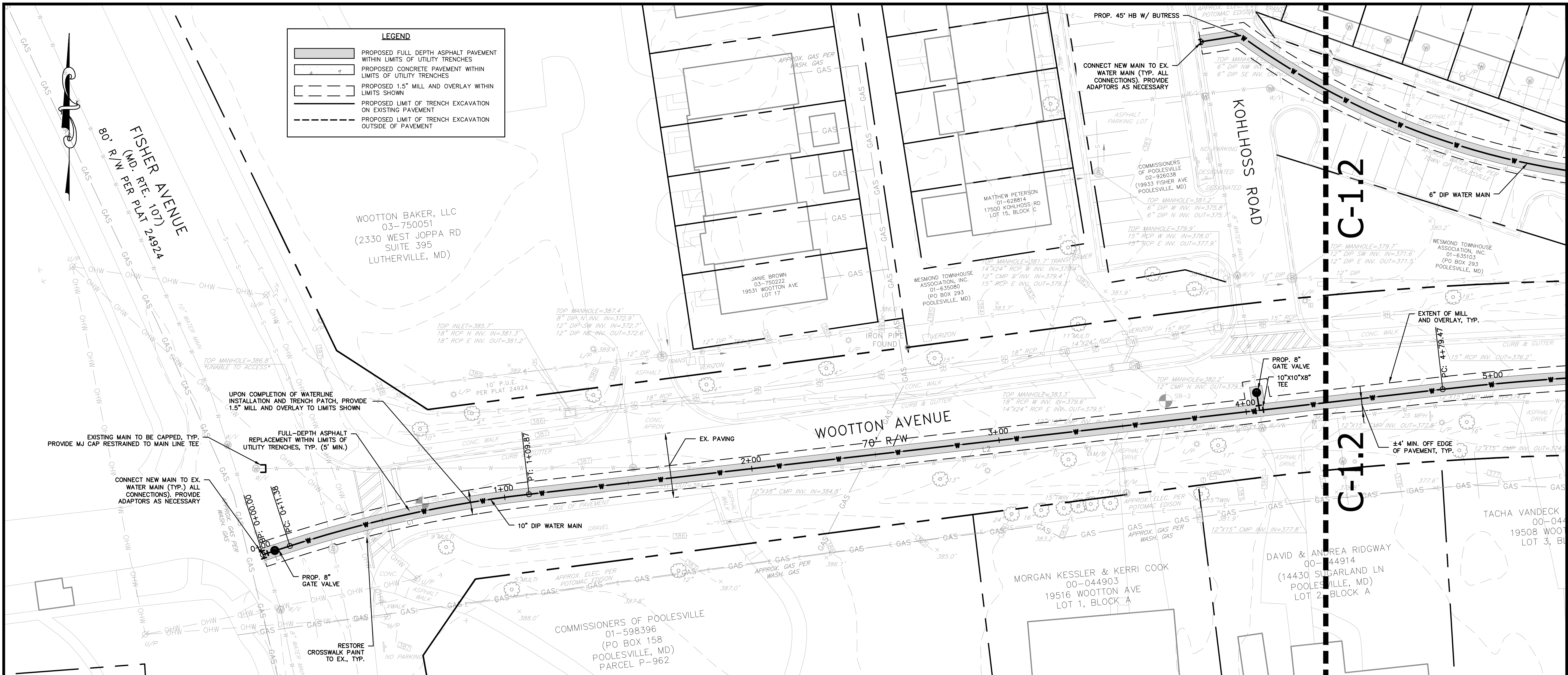
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LICENSE NO. 31168

EXPIRATION DATE: 11/12/2025

WOOTTON AVENUE WATERLINE

WOOTTON AVENUE
 POOLESVILLE, MARYLAND



NO.	DATE	DESCRIPTION

DATE: JUNE 2023
 CAA PROJECT NO.: 100.047
 DRAWN BY: MC
 CHECKED BY: JA
 SHEET TITLE

**WATERLINE
 PLAN AND
 PROFILE**

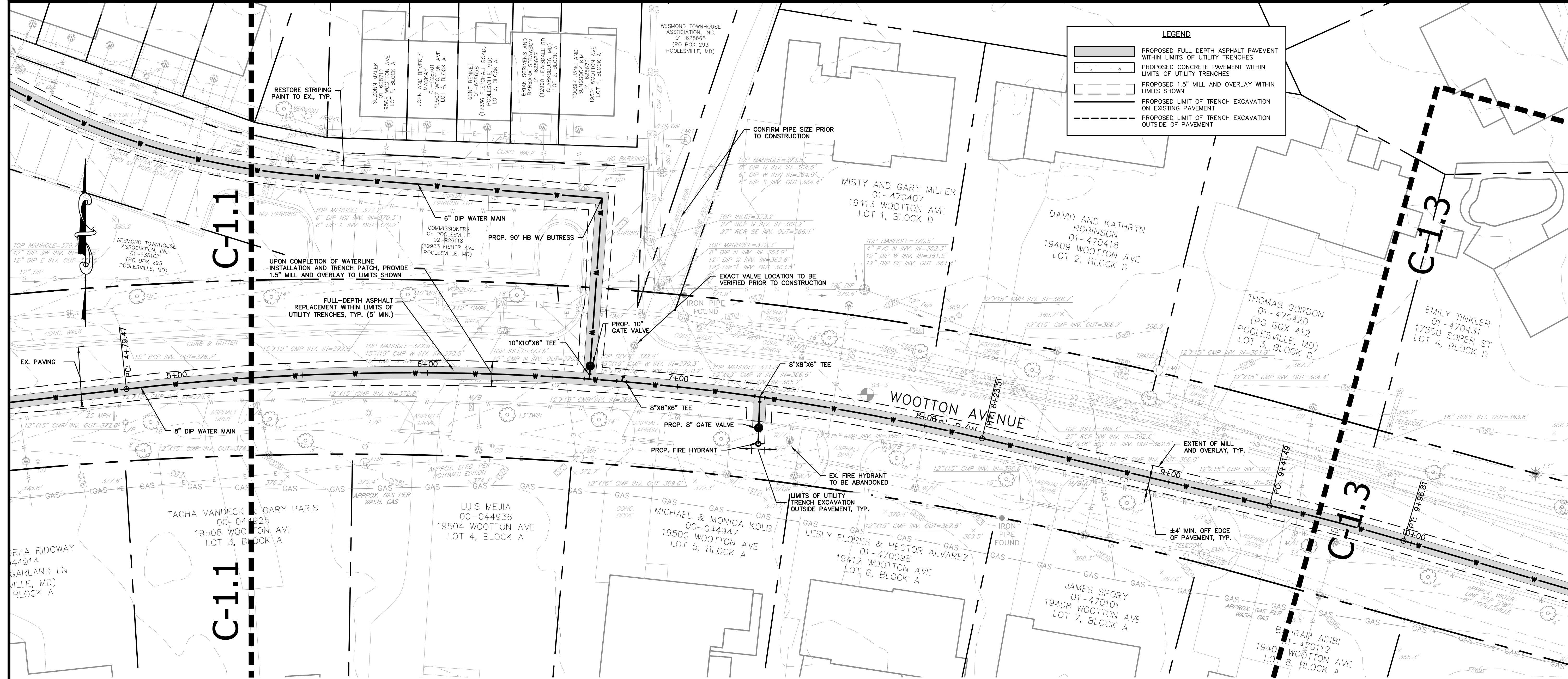
SHEET

C-201

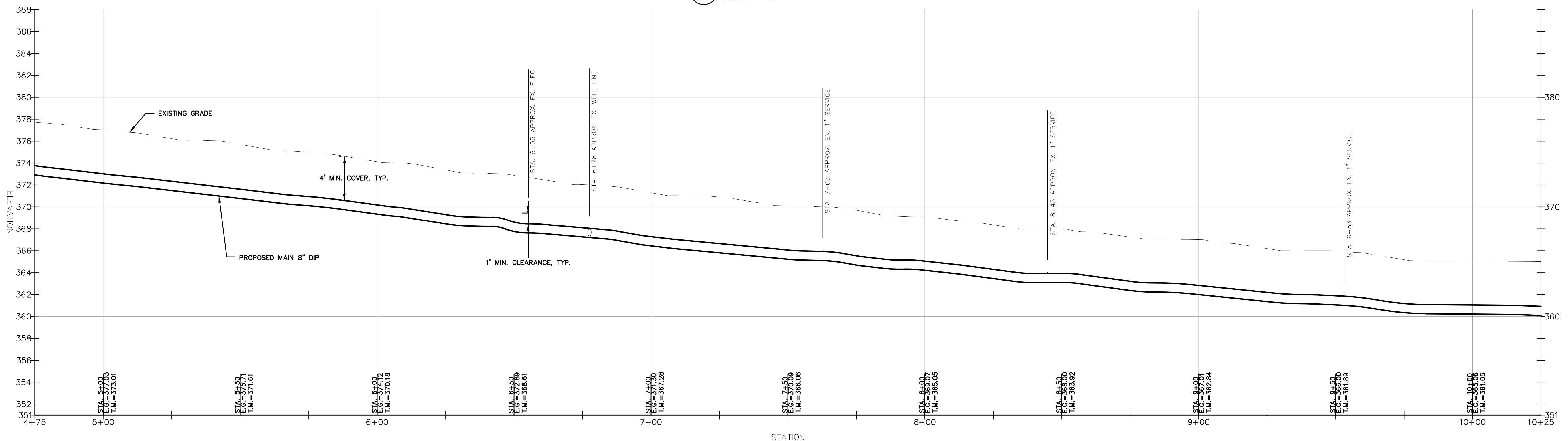


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 LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 31168
 EXPIRATION DATE: 1/12/2025

WOOTTON AVENUE WATERLINE
 WOOTTON AVENUE
 POOLESVILLE, MARYLAND

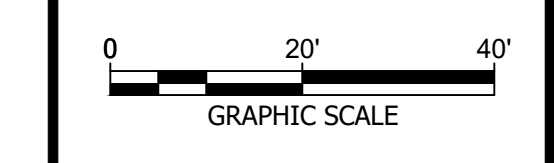


1 WOOTTON AVENUE PLAN VIEW
 SCALE: 1" = 20'



2 WOOTTON AVENUE PROFILE
 SCALE: 1" = 5' (VERT.)
 1" = 20' (HOR.)

NO.	DATE	DESCRIPTION



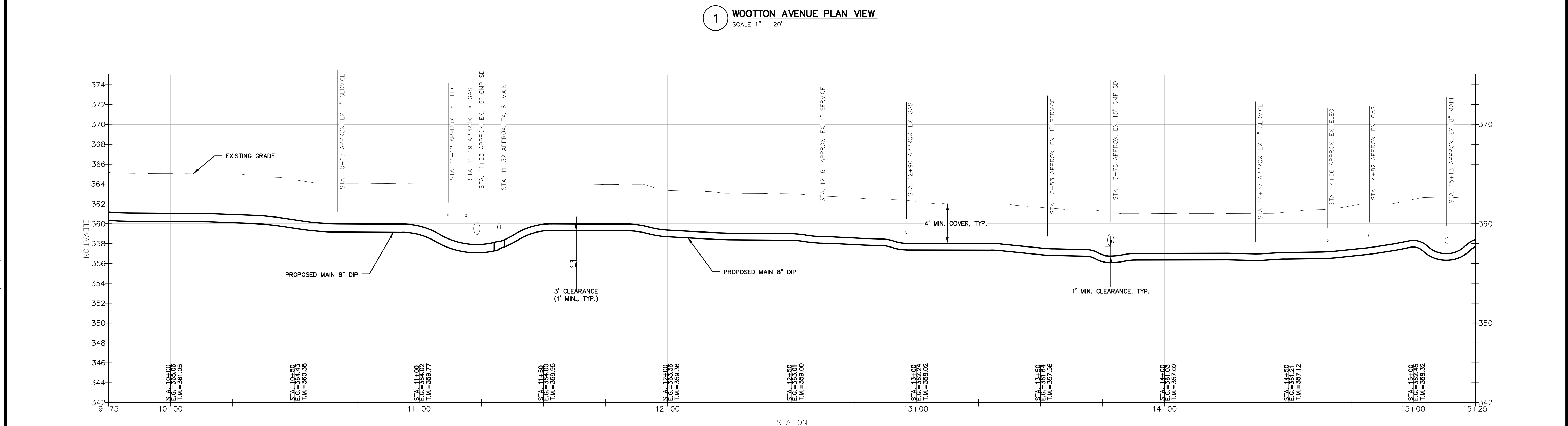
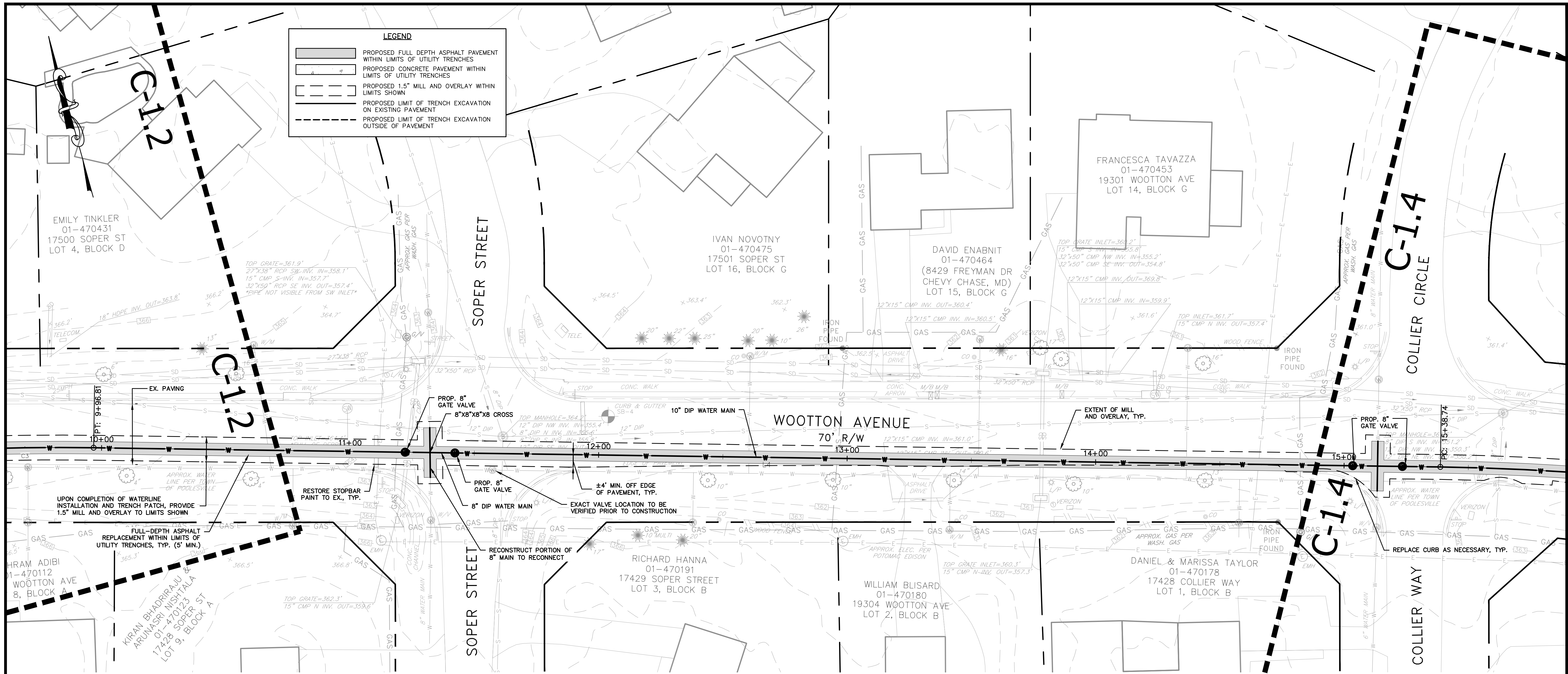
DATE: JUNE 2023
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 DRAWN BY: MC
 CHECKED BY: JA
 SHEET TITLE:

**WATERLINE
 PLAN AND
 PROFILE
 (CONT.)**
 SHEET

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PROFESSIONAL CERTIFICATION:
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 LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 31168
 EXPIRATION DATE: 11/12/2025



WOOTTON AVENUE WATERLINE
 WOOTTON AVENUE
 POOLESVILLE, MARYLAND

NO.	DATE	DESCRIPTION

DATE: JUNE 2023
 CAA PROJECT NO.: 100.047
 DRAWN BY: MC
 CHECKED BY: JA
 SHEET TITLE
WATERLINE PLAN AND PROFILE (CONT.)
 SHEET

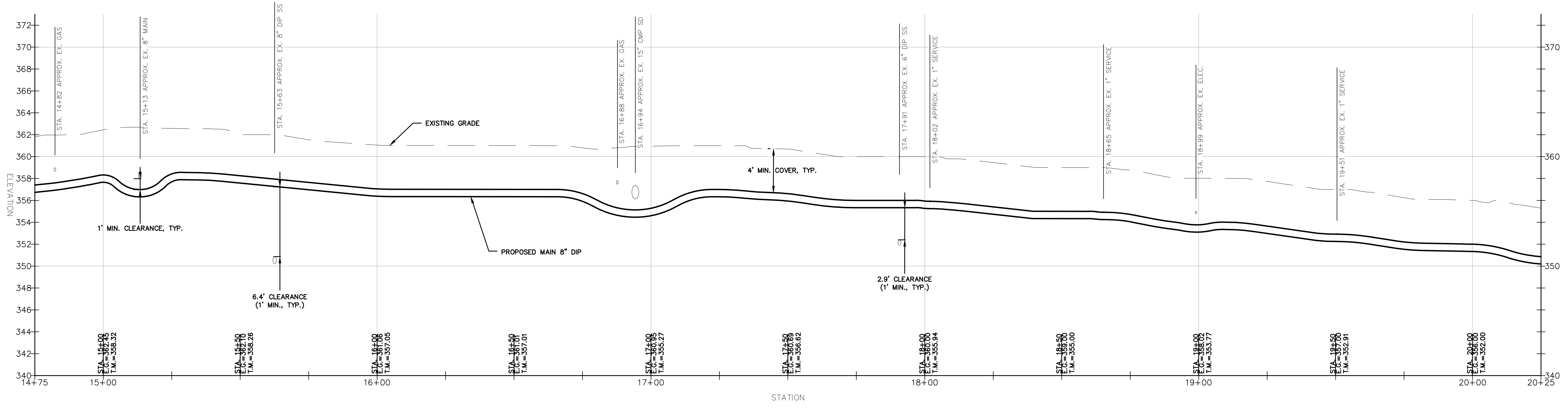
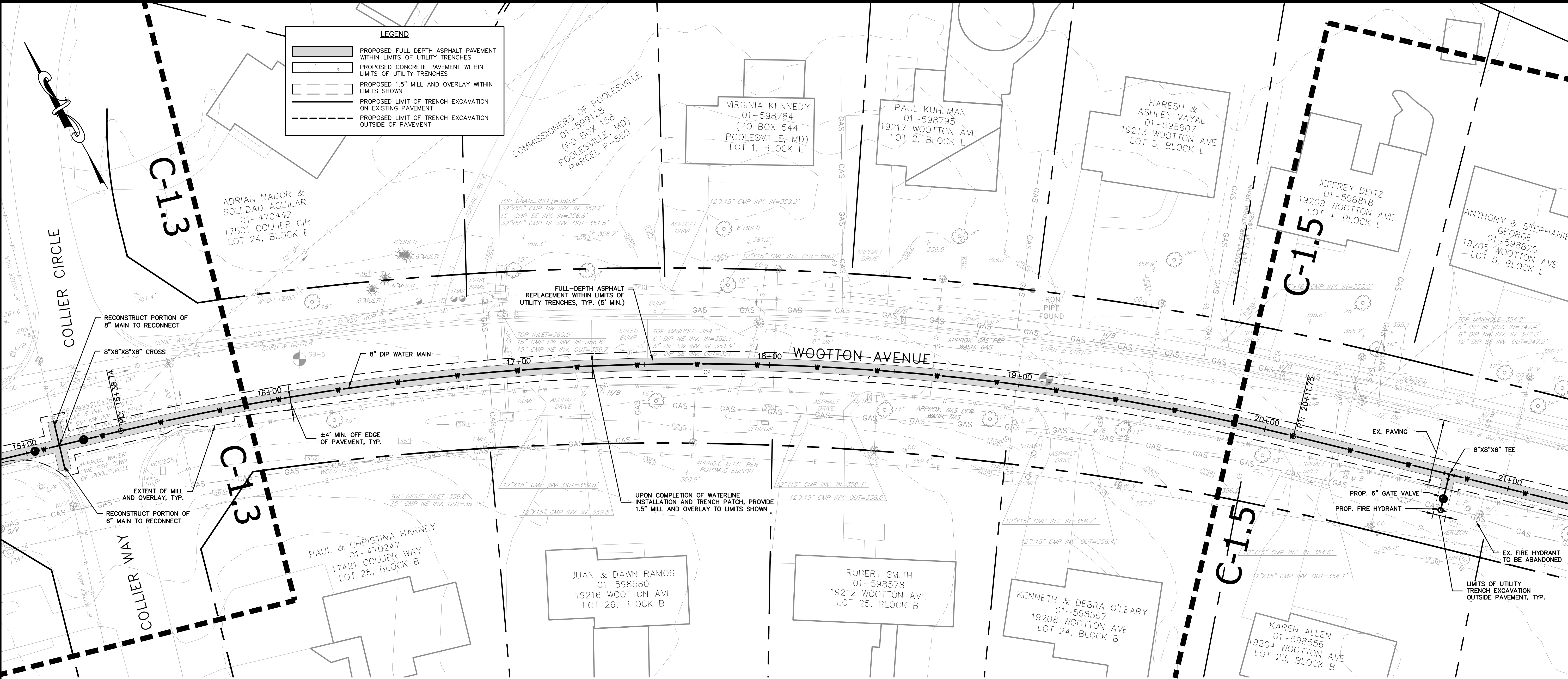
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 LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 31168
 EXPIRATION DATE: 11/12/2025



WOOTTON AVENUE WATERLINE
 WOOTTON AVENUE
 POOLESVILLE, MARYLAND

NO.	DATE	DESCRIPTION

DATE: JUNE 2023
 CAA PROJECT NO.: 100.047
 DRAWN BY: MC
 CHECKED BY: JA
 SHEET TITLE
**WATERLINE
 PLAN AND
 PROFILE
 (CONT.)**
 SHEET

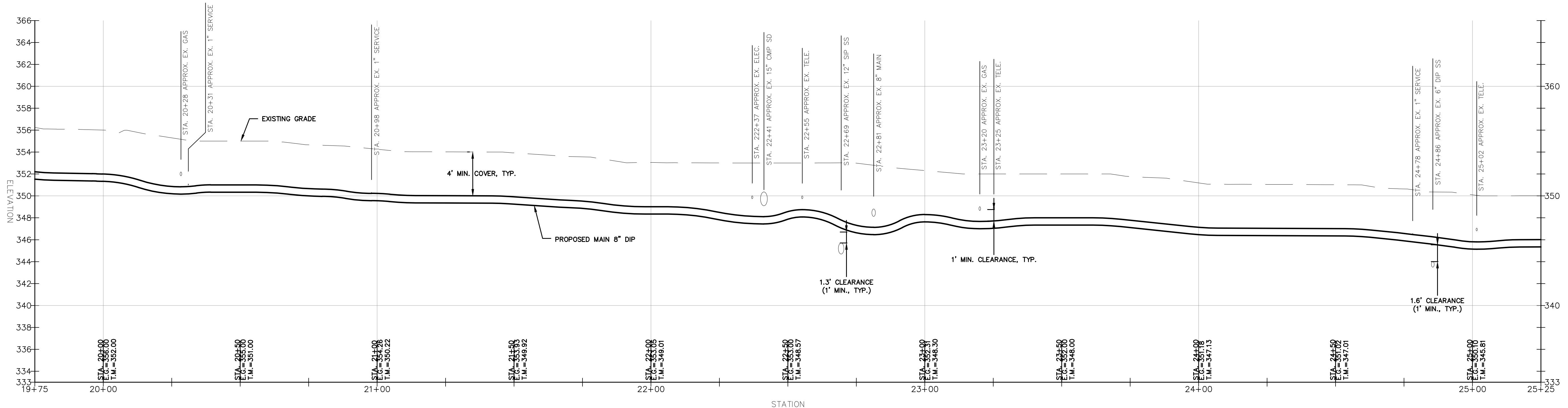
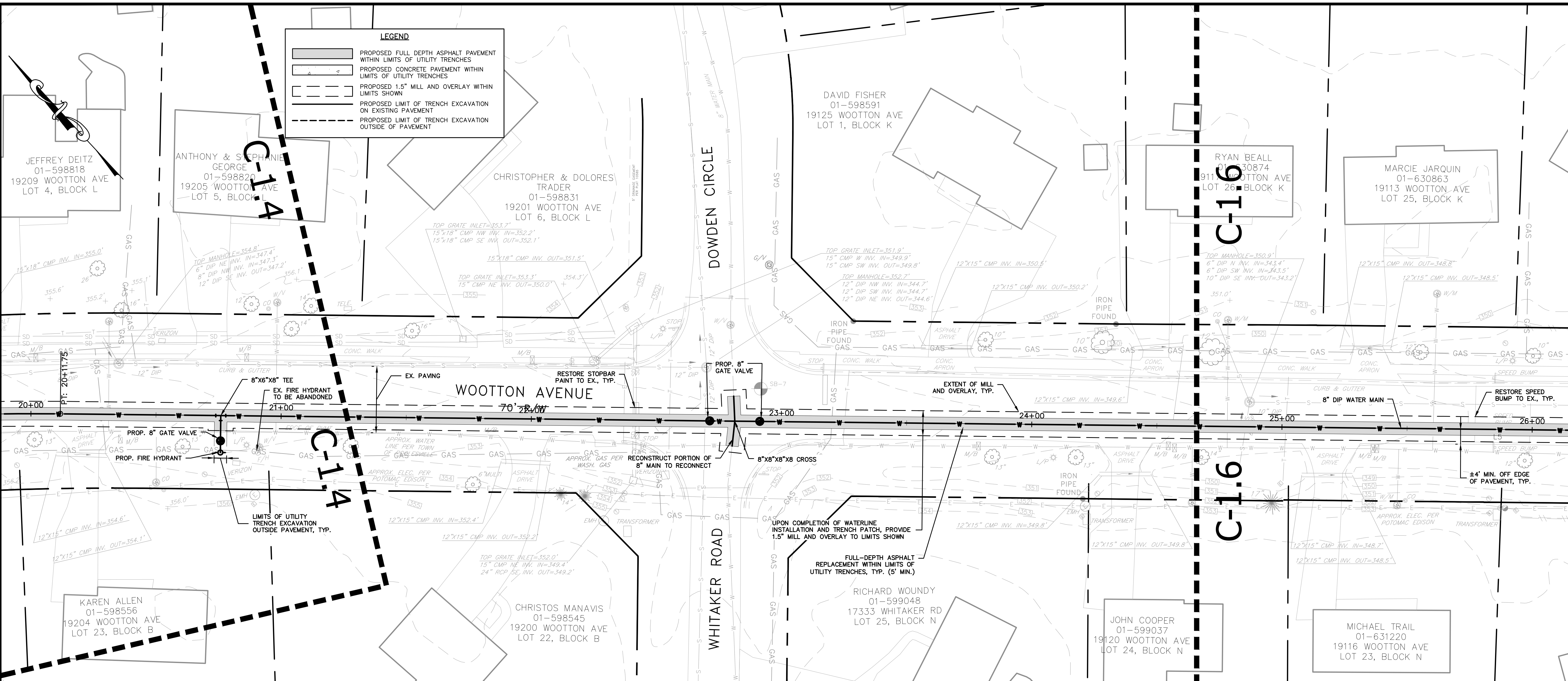
C-204

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PROFESSIONAL CERTIFICATION:
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 OR APPROVED BY ME, AND THAT I AM A DULY
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 LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 31168
 EXPIRATION DATE: 1/12/2025

WOOTTON AVENUE WATERLINE
 WOOTTON AVENUE
 POOLESVILLE, MARYLAND



NO.	DATE	DESCRIPTION

DATE: JUNE 2023
 CAA PROJECT NO.: 100.047
 DRAWN BY: MC
 CHECKED BY: JA
 SHEET TITLE

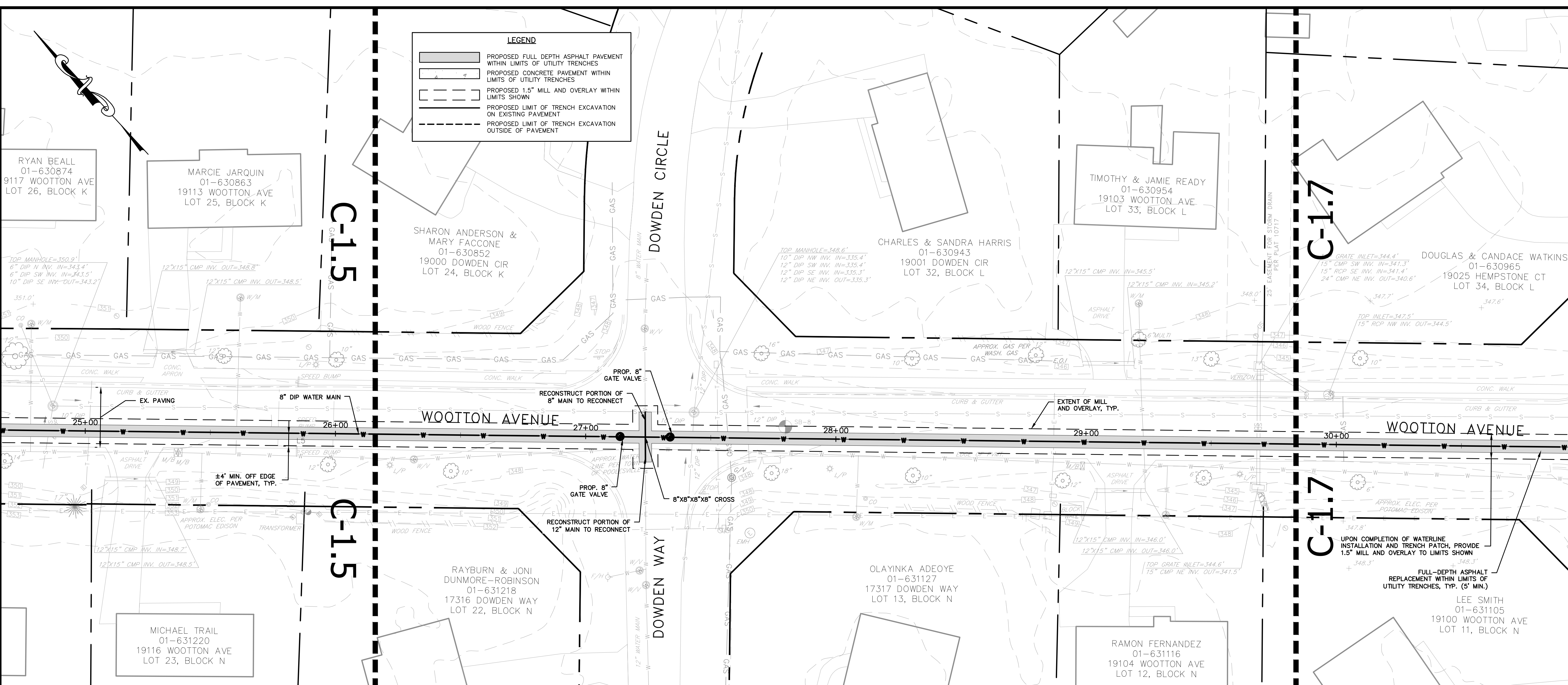
PROPOSED WATERLINE
 SHEET
C-205

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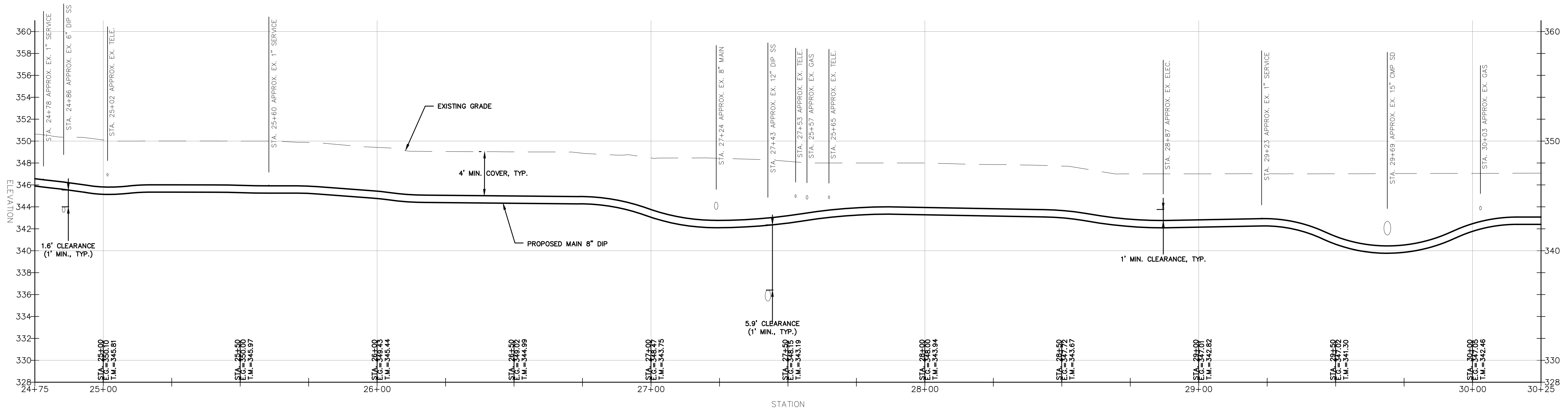


PROFESSIONAL CERTIFICATION:
 I CERTIFY THAT THESE DOCUMENTS WERE PREPARED
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 LICENSED PROFESSIONAL ENGINEER UNDER THE
 LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 31168
 EXPIRATION DATE: 1/12/2025

WOOTTON AVENUE WATERLINE
 WOOTTON AVENUE
 POOLESVILLE, MARYLAND



1 WOOTTON AVENUE PLAN VIEW
 SCALE: 1" = 20'



2 WOOTTON AVENUE PROFILE
 SCALE: 1" = 5' (VERT.)
 1" = 20' (HOR.)

NO.	DATE	DESCRIPTION

DATE: JUNE 2023
 CAA PROJECT NO.: 100.047
 DRAWN BY: MC
 CHECKED BY: JA

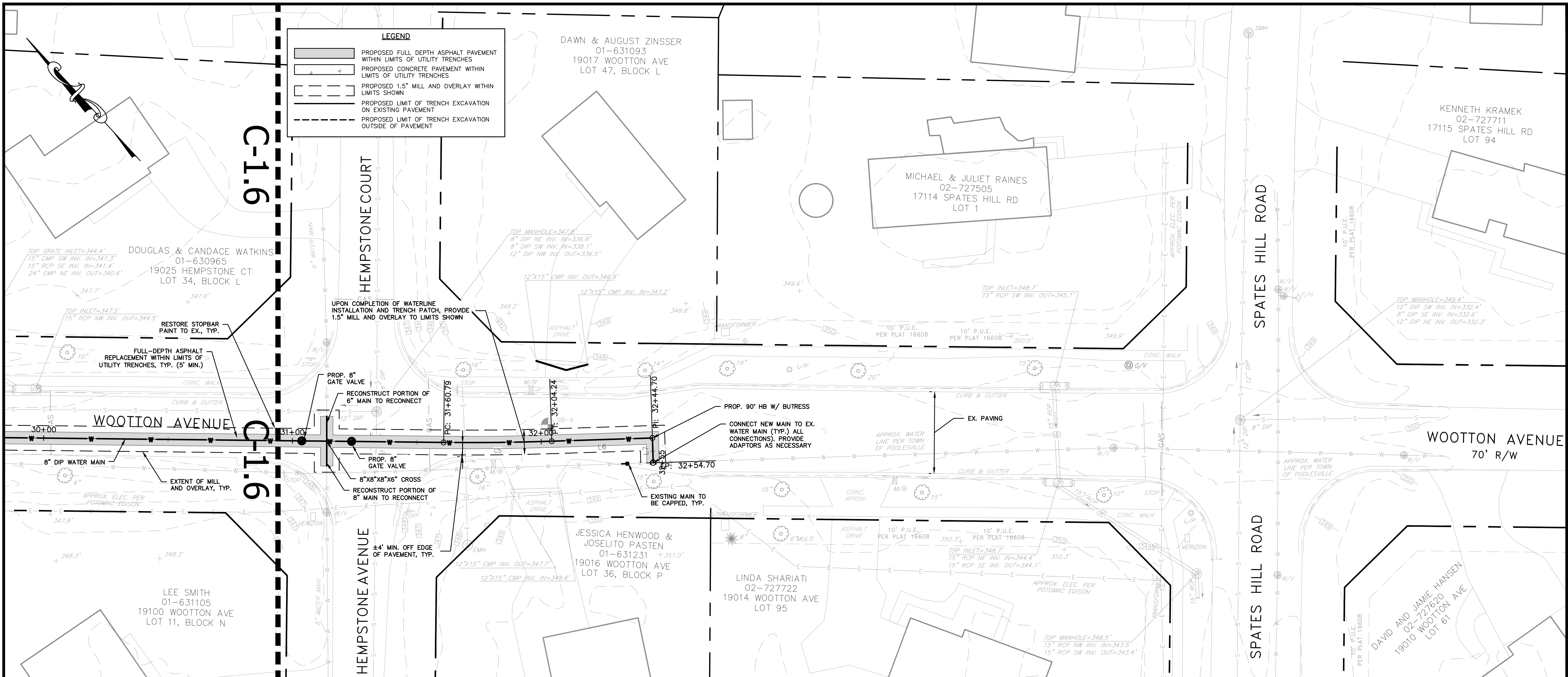
**WATERLINE
 PLAN AND
 PROFILE
 (CONT.)**
 SHEET

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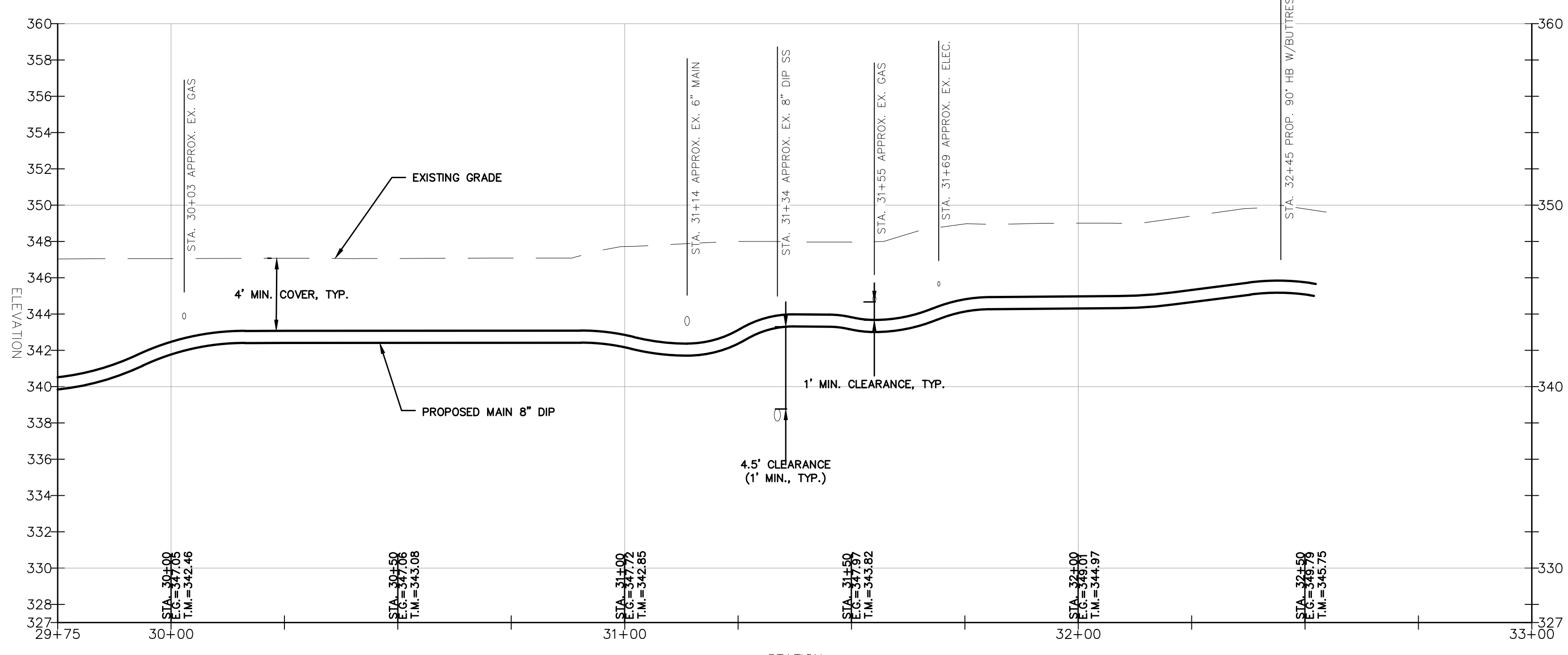


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 LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 31168
 EXPIRATION DATE: 11/12/2025

WOOTTON AVENUE WATERLINE
 WOOTTON AVENUE
 POOLESVILLE, MARYLAND



1 WOOTTON AVENUE PLAN VIEW
 SCALE: 1" = 20'

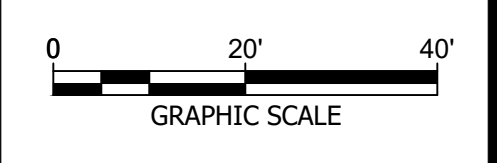


2 WOOTTON AVENUE PROFILE
 SCALE: 1" = 5' (VERT.)
 1" = 20' (HOR.)

WATERLINE GEOMETRIC DATA (LINE)				
LINE #	LENGTH (FT)	BEARING	START COORDINATES	END COORDINATES
L1	11.38	N72° 09' 27.56"E	N 537671.4130, E 1196746.8303	N 537674.8984, E 1196757.6585
L2	369.60	N83° 26' 39.76"E	N 537695.6775, E 1196853.7740	N 537737.8744, E 1197220.9615
L3	117.98	S76° 50' 37.22"E	N 537718.1656, E 1197562.7379	N 537691.3133, E 1197677.6170
L4	541.93	S73° 40' 26.73"E	N 537677.2389, E 1197731.1090	N 537524.9025, E 1198251.1857
L5	1149.05	S46° 34' 21.63"E	N 537291.4711, E 1198657.5190	N 536501.5770, E 1199492.0111
L6	40.46	S49° 03' 42.69"E	N 536472.4064, E 1199524.2012	N 536445.8922, E 1199554.7689
L7	10.00	S40° 56' 17.31"W	N 536445.8922, E 1199554.7689	N 536438.3380, E 1199548.2165

WATERLINE GEOMETRIC DATA (CURVE)					
CURVE #	RADIUS (FT)	LENGTH (FT)	CHORD DIRECTION	START COORDINATES	END COORDINATES
C1	500.00	98.50	N77° 48' 03.66"E	N 537674.8984, E 1196757.6585	N 537695.6775, E 1196853.7740
C2	1000.00	344.04	S86° 41' 58.73"E	N 537737.8744, E 1197220.9615	N 537718.1656, E 1197562.7379
C3	1000.00	55.32	S75° 15' 31.97"E	N 537691.3133, E 1197677.6170	N 537677.2389, E 1197731.1090
C4	1000.00	473.01	S60° 07' 24.18"E	N 537524.9025, E 1198251.1857	N 537291.4711, E 1198657.5190
C5	1000.00	43.44	S47° 49' 02.16"E	N 536501.5770, E 1199492.0111	N 536472.4064, E 1199524.2012

NO.	DATE	DESCRIPTION



DATE: JUNE 2023
 CAA PROJECT NO.: 100.047
 DRAWN BY: MC
 CHECKED BY: JA
 SHEET TITLE

PROPOSED WATERLINE
 SHEET
C-207



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 LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 131168
 EXPIRATION DATE: 1/12/2025

WOOTTON AVENUE WATERLINE
 WOOTTON AVENUE
 POOLESVILLE, MARYLAND

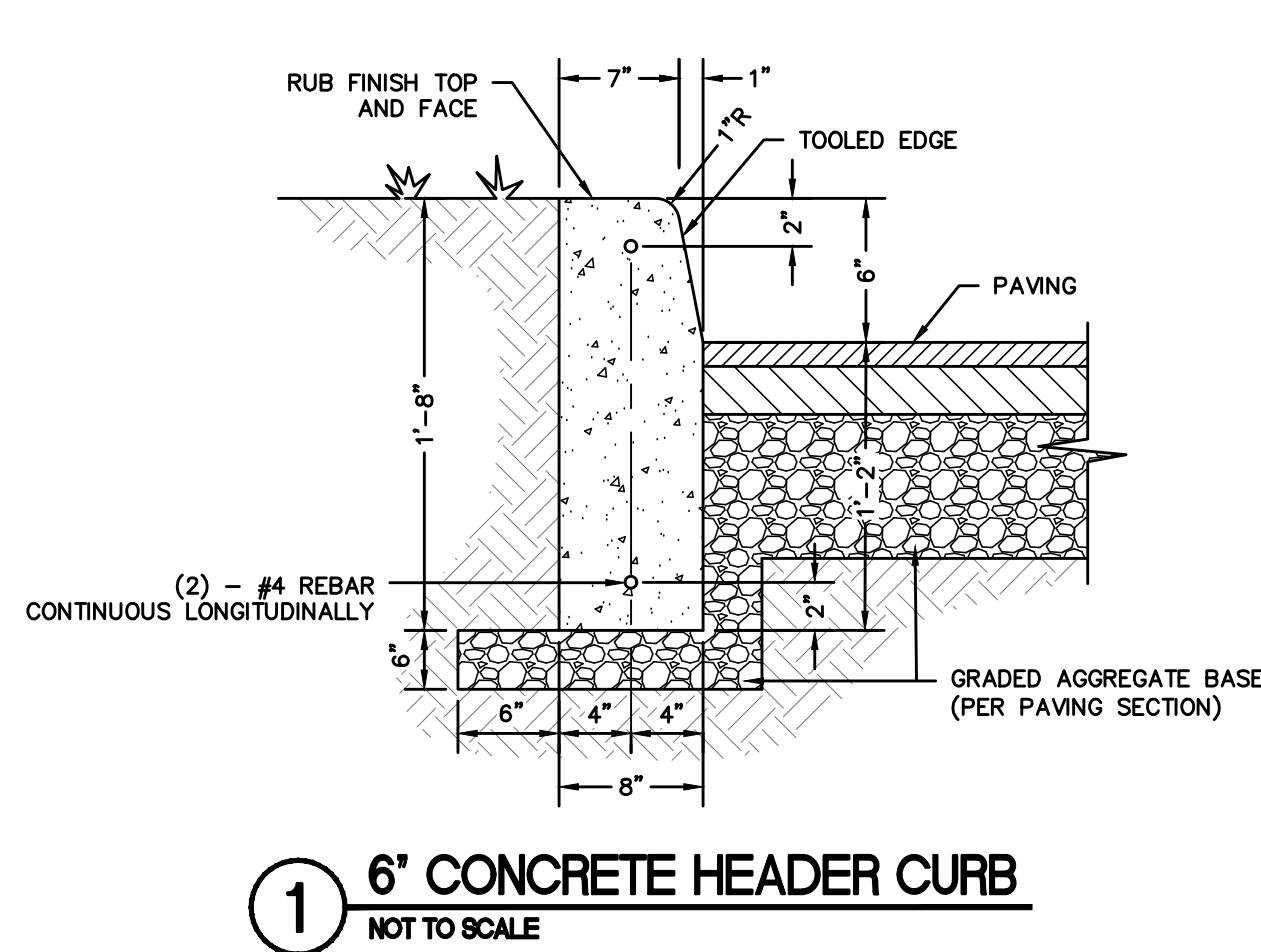
NO.	DATE	DESCRIPTION

DATE: JUNE 2023
 CAA PROJECT NO.: 100.047
 DRAWN BY: MC
 CHECKED BY: JA
 SHEET TITLE

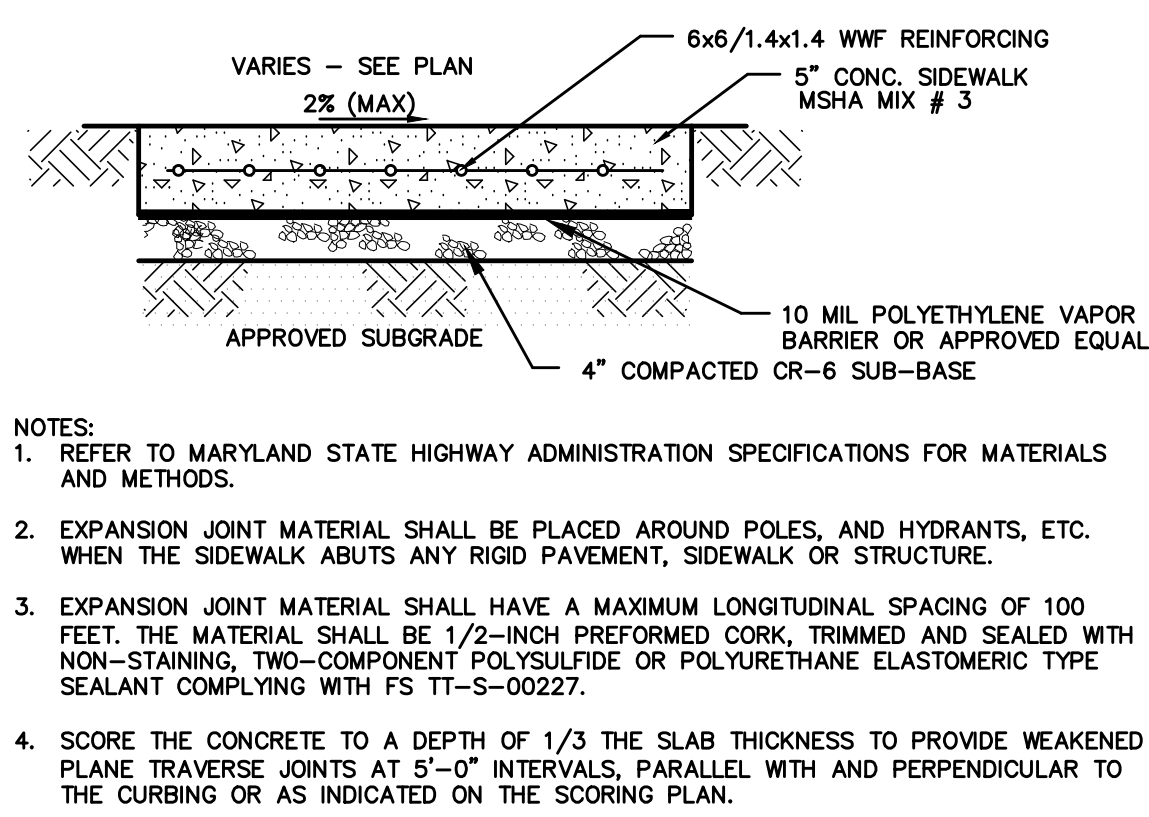
SITE DETAILS

SHEET

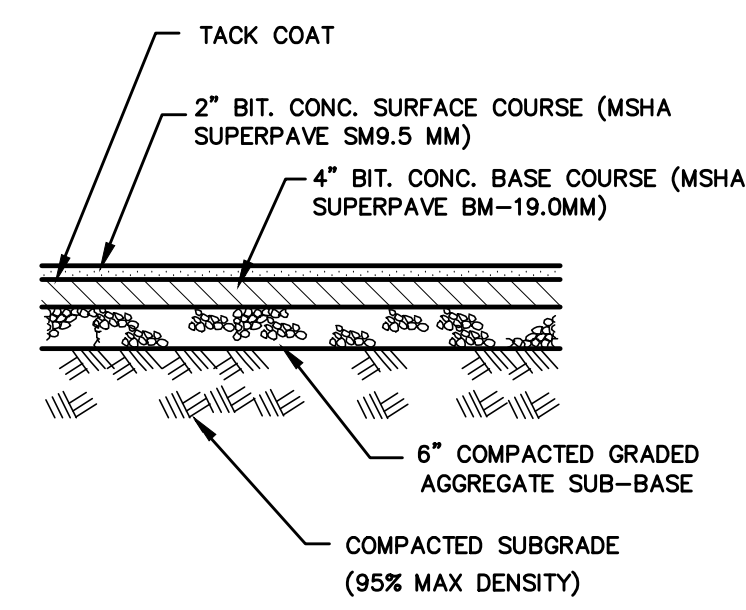
C-208



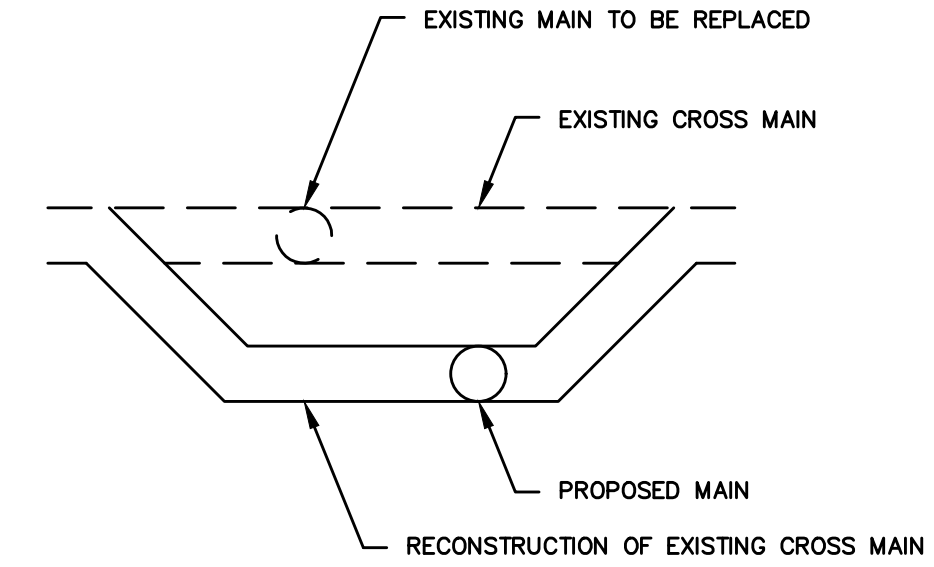
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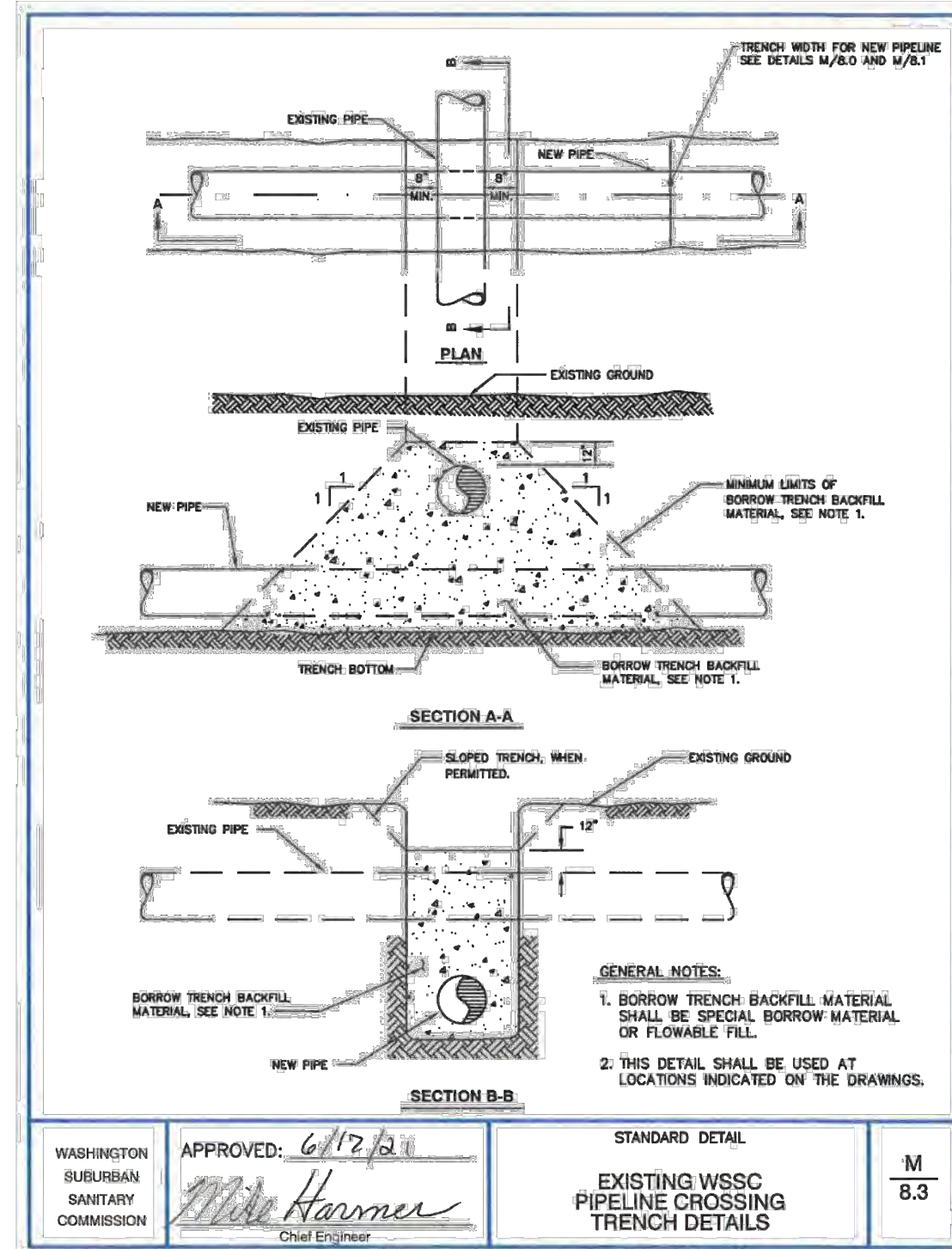
2 CONCRETE SIDEWALK SECTION
 NOT TO SCALE



3 BITUMINOUS PAVEMENT SECTION
 NOT TO SCALE



4 MAIN CROSS CONNECTIONS TYPICAL DETAIL
 NOT TO SCALE



WASHINGTON SUBURBAN SANITARY COMMISSION
 APPROVED: *6/12/23*
Chief Engineer
 STANDARD DETAIL
EXISTING WSSC PIPELINE CROSSING TRENCH DETAILS
 M 8.3

SIGMA Raven HDPE Products
 Quality - Service - Commitment - Delivered.

18x22 Full Barrel Meter Pit Series RMP182230-FB-W Specifications

Manufacturing Process: Sigma Raven HDPE full barrel meter pits are produced using High Density Polyethylene (HDPE) resin and 30% carbon fiber reinforcement. The resin is extruded into a pipe and then formed into a barrel shape. The carbon fiber reinforcement is added to the barrel walls to provide structural strength and stiffness. The barrel is then finished with a smooth, non-slip exterior and a bright white interior.

Installation: The barrel is installed in a trench and supported by a concrete base. The barrel is connected to the existing main and the new main. The barrel is then covered with a concrete slab and finished with a concrete curb.

Dimensions: The barrel is 18 inches wide and 22 inches high. The barrel is available in 30, 36, and 42 inch lengths.

Material: The barrel is made of High Density Polyethylene (HDPE) resin and 30% carbon fiber reinforcement.

Weight: The barrel weighs approximately 150 lbs.

Strength: The barrel is designed to withstand a load of 10,000 lbs. per sq. ft.

UV Resistance: The barrel is UV resistant and will not fade or discolor.

Fire Resistance: The barrel is fire resistant and will not burn.

Chemical Resistance: The barrel is resistant to most acids, alkalis, and solvents.

Non-Slip Exterior: The barrel has a non-slip exterior to prevent slipping.

Bright White Interior: The barrel has a bright white interior to provide visibility.

Standard Detail: The barrel is shown in a standard detail view.

Approved: 6/12/23
 Chief Engineer

SIGMA Raven HDPE Products
 Quality - Service - Commitment - Delivered.

20 x 24 Full Barrel Meter Pit Series RMP202430-FB-W Specifications

Manufacturing Process: Sigma Raven HDPE full barrel meter pits are produced using High Density Polyethylene (HDPE) resin and 30% carbon fiber reinforcement. The resin is extruded into a pipe and then formed into a barrel shape. The carbon fiber reinforcement is added to the barrel walls to provide structural strength and stiffness. The barrel is then finished with a smooth, non-slip exterior and a bright white interior.

Installation: The barrel is installed in a trench and supported by a concrete base. The barrel is connected to the existing main and the new main. The barrel is then covered with a concrete slab and finished with a concrete curb.

Dimensions: The barrel is 20 inches wide and 24 inches high. The barrel is available in 30, 36, and 42 inch lengths.

Material: The barrel is made of High Density Polyethylene (HDPE) resin and 30% carbon fiber reinforcement.

Weight: The barrel weighs approximately 200 lbs.

Strength: The barrel is designed to withstand a load of 10,000 lbs. per sq. ft.

UV Resistance: The barrel is UV resistant and will not fade or discolor.

Fire Resistance: The barrel is fire resistant and will not burn.

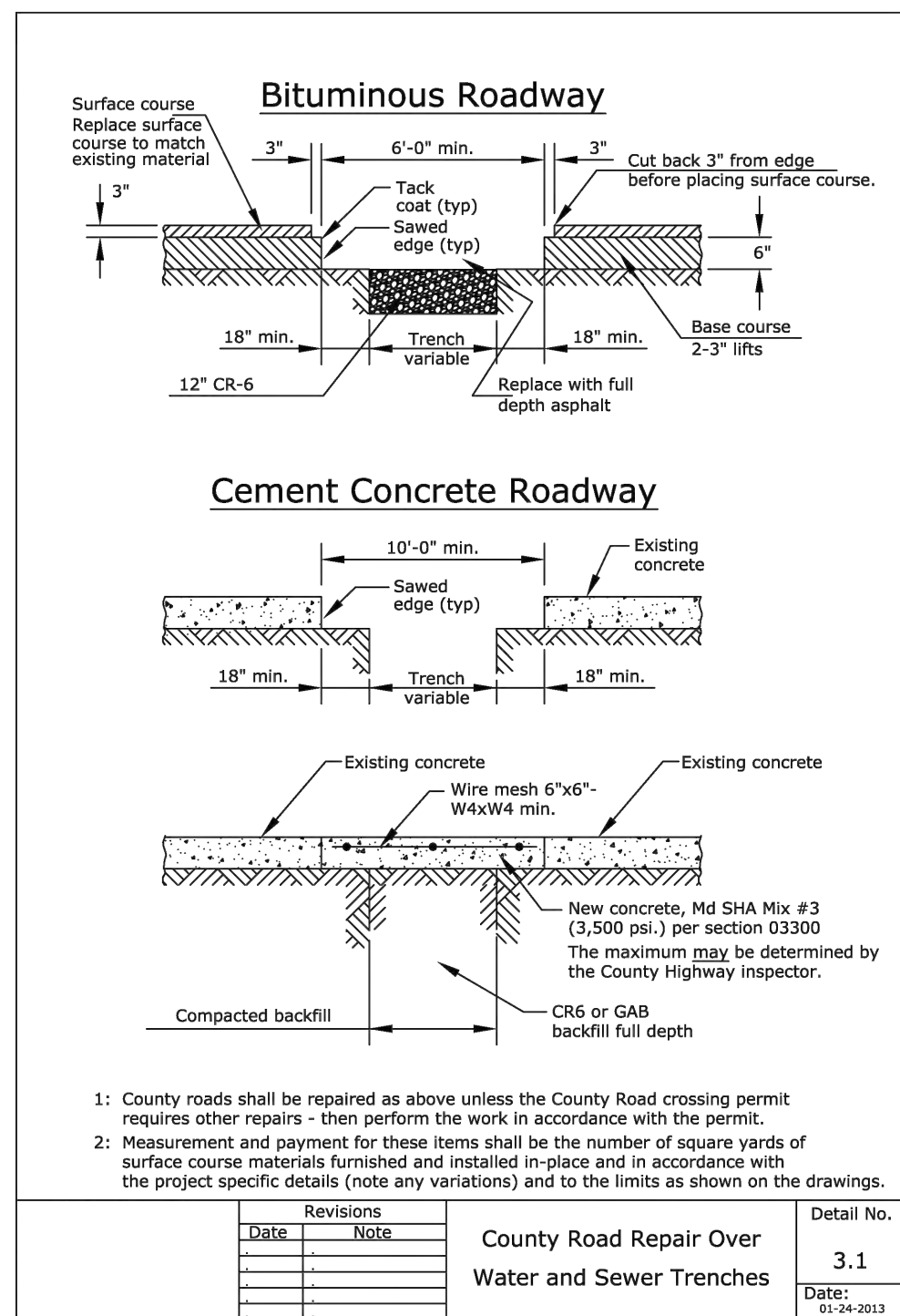
Chemical Resistance: The barrel is resistant to most acids, alkalis, and solvents.

Non-Slip Exterior: The barrel has a non-slip exterior to prevent slipping.

Bright White Interior: The barrel has a bright white interior to provide visibility.

Standard Detail: The barrel is shown in a standard detail view.

Approved: 6/12/23
 Chief Engineer



Mechanical Joint Pipe

Nominal Pipe Size	Max. Deflection		Minimum Radius-Foot	
	18 Ft Length	20 Ft Length	18 Ft Length	20 Ft Length
4	31	8.17	35	8.30
6	27	7.13	30	7.13
8	20	5.29	22	5.24
10	20	5.29	22	5.24
12	20	5.29	22	5.24
16	13.5	3.57	15	3.58
18	11	2.92	12	2.86
20	11	2.92	12	2.86
24	9	2.39	10	2.39
36	9	2.39	10	2.39
42	7.5	1.99	8	1.91
48	7.5	1.99	8	1.91

Push-on Joint Pipe

Nominal Pipe Size	Max. Deflection		Minimum Radius-Foot	
	18 Ft Length	20 Ft Length	18 Ft Length	20 Ft Length
4	19	5.03	21	5.00
6	19	5.03	21	5.00
8	19	5.03	21	5.00
10	19	5.03	21	5.00
12	19	5.03	21	5.00
16	11	2.92	12	2.86
18	11	2.92	12	2.86
20	11	2.92	12	2.86
24	11	2.92	12	2.86
36	11	2.92	12	2.86
42	7.5	1.99	8	1.91
48	7.5	1.99	8	1.91

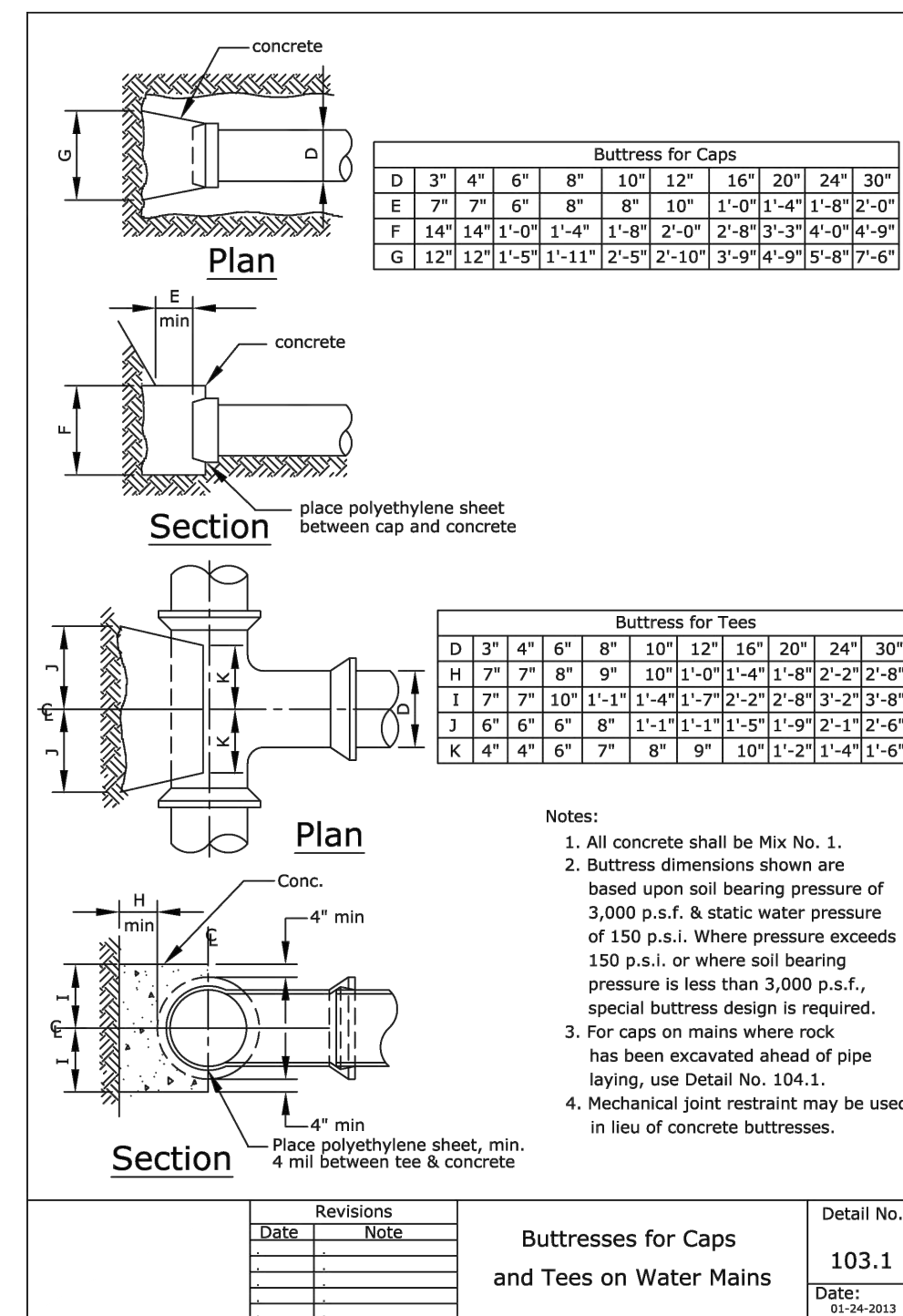
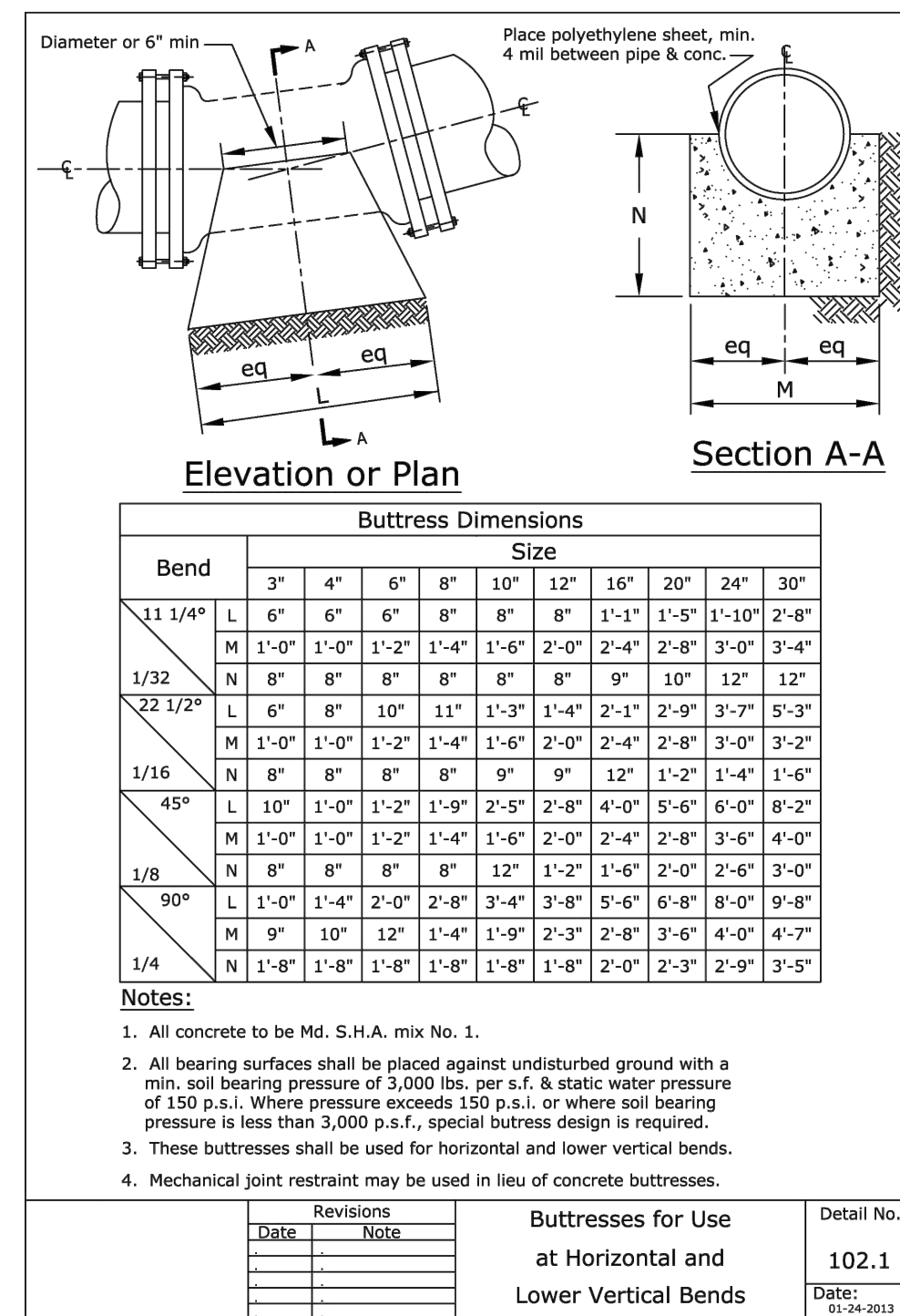
The Above Charts Are in Accordance With AWWA C600.

Revisions

Date	Note

County Road Repair Over Water and Sewer Trenches

Detail No. 101.1
 Date: 01-24-2013

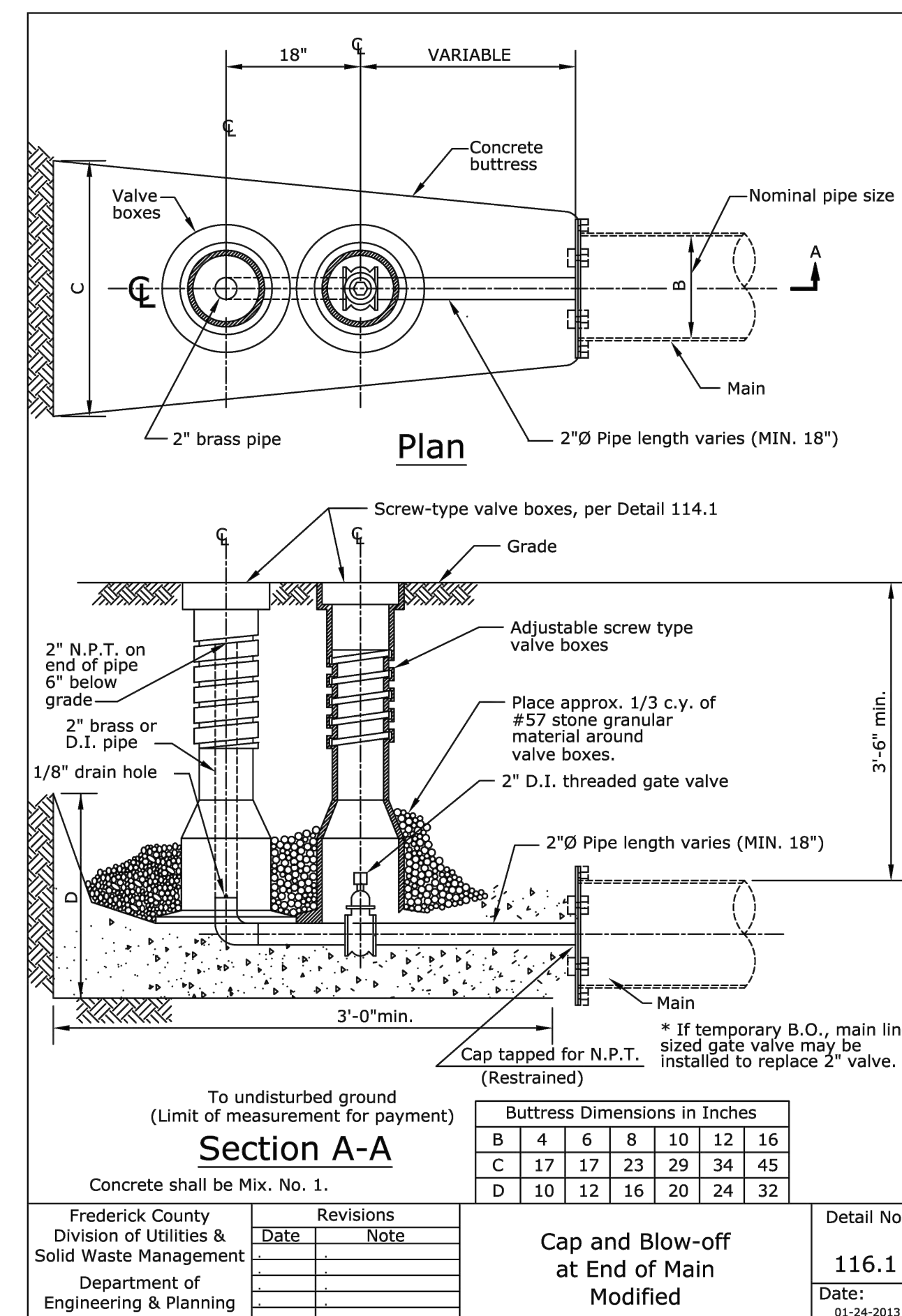
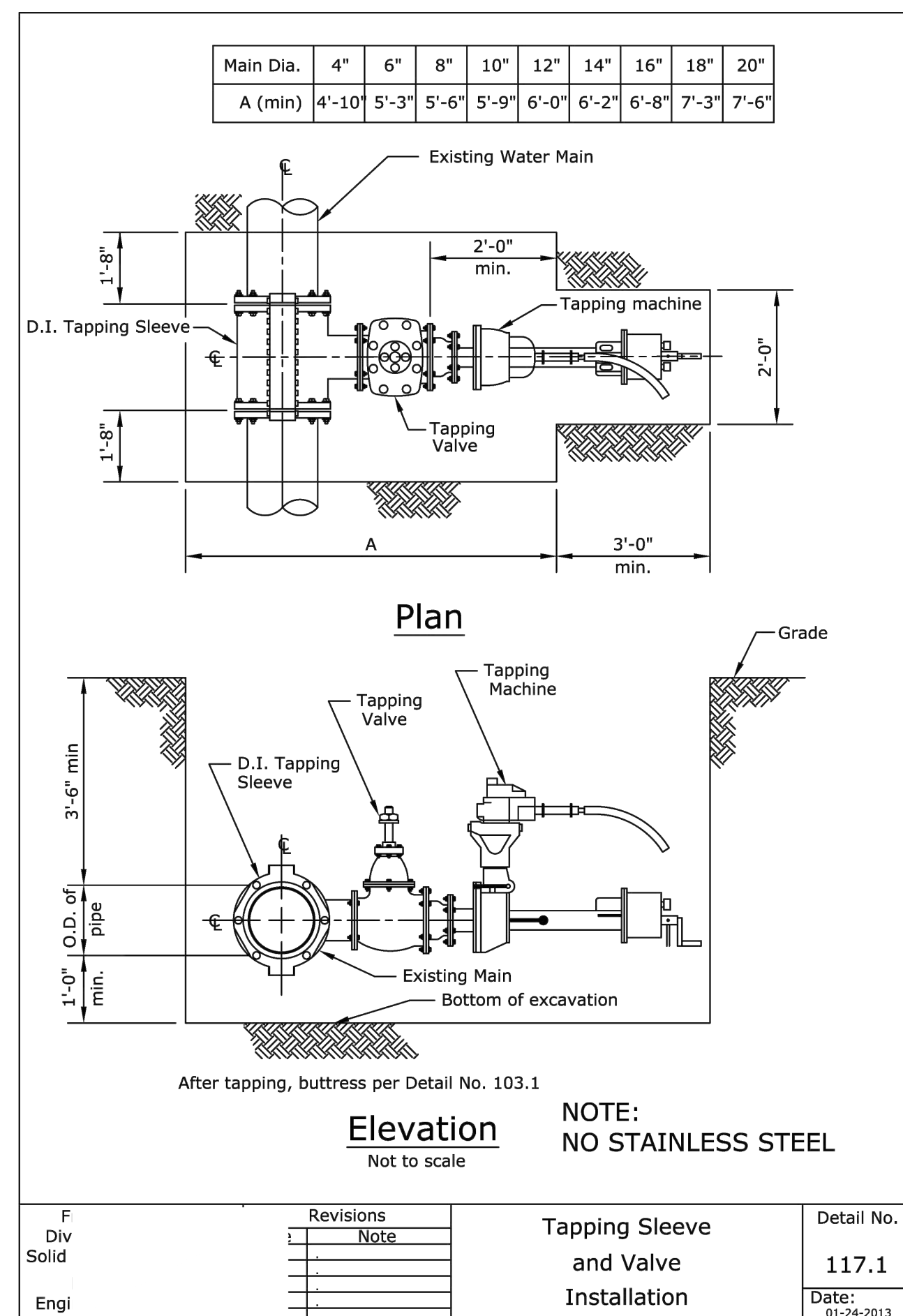
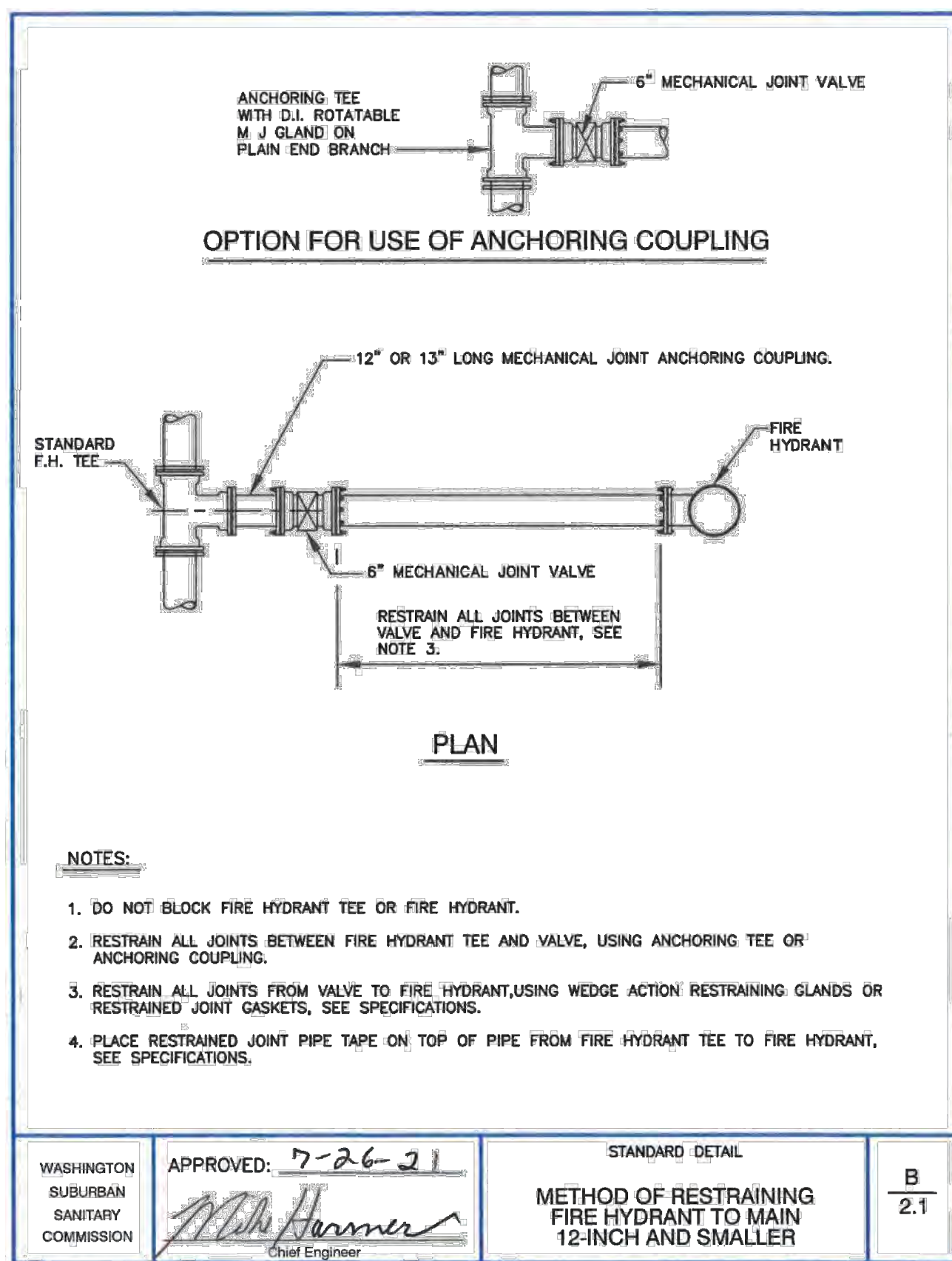
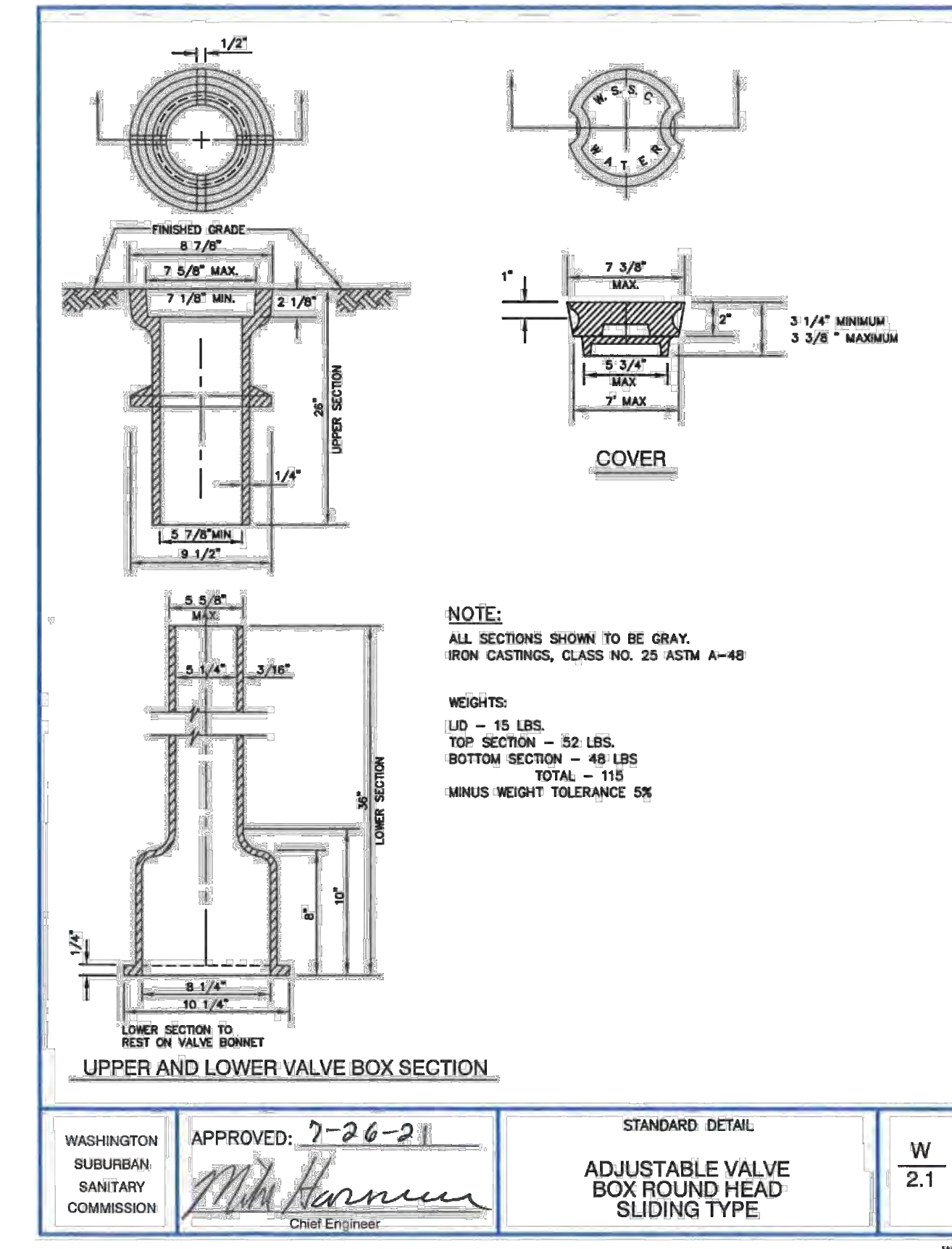
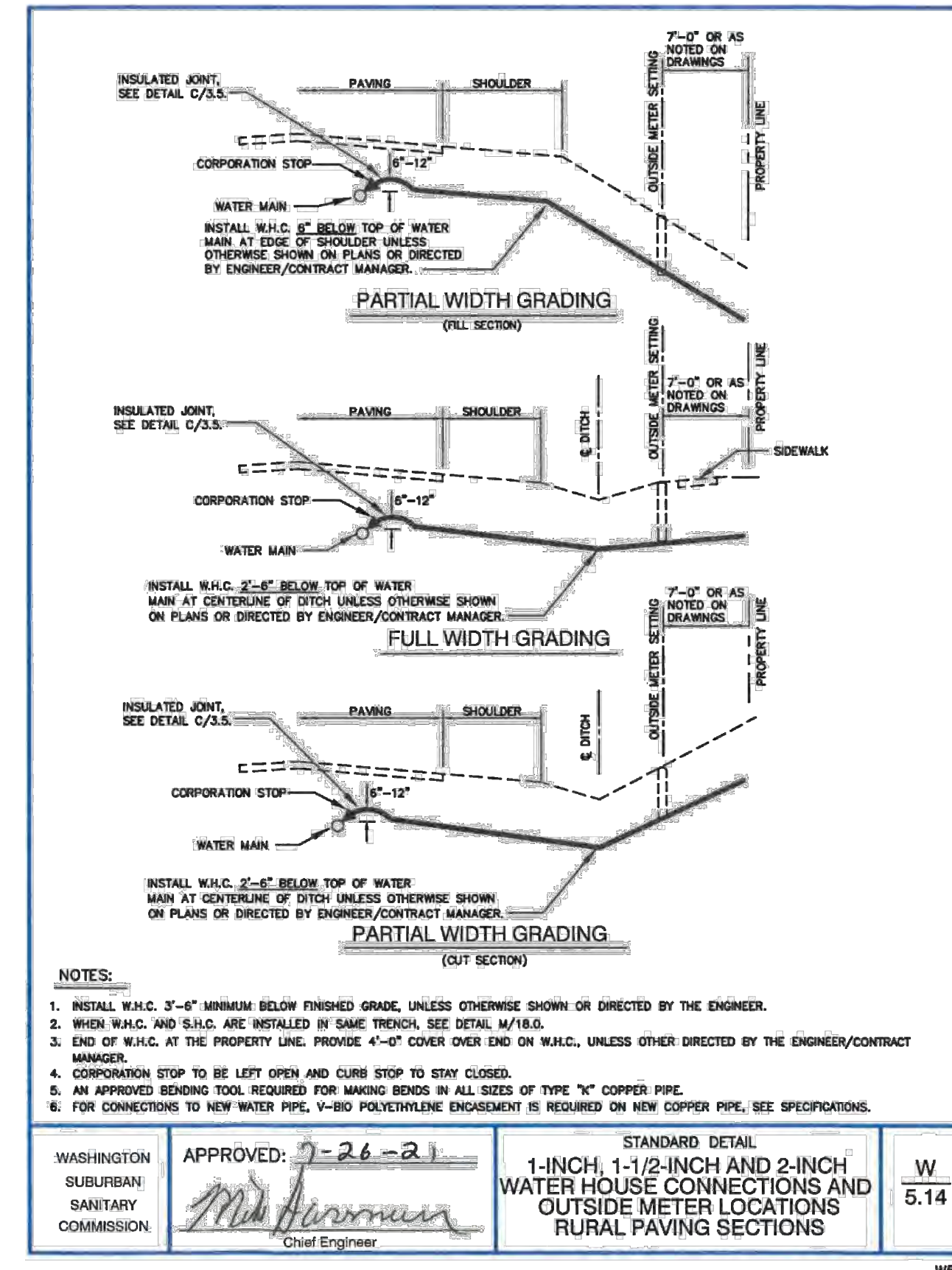
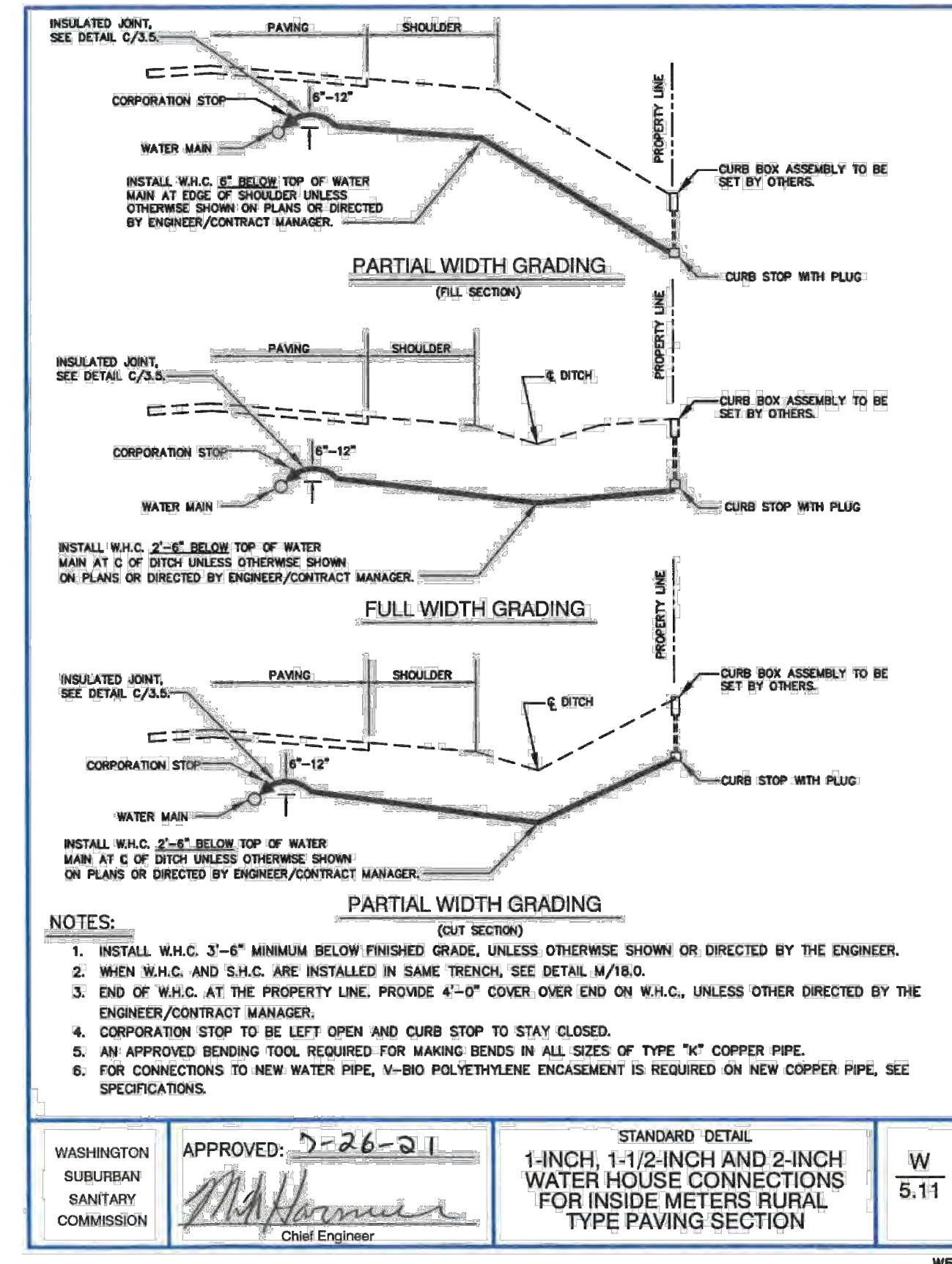
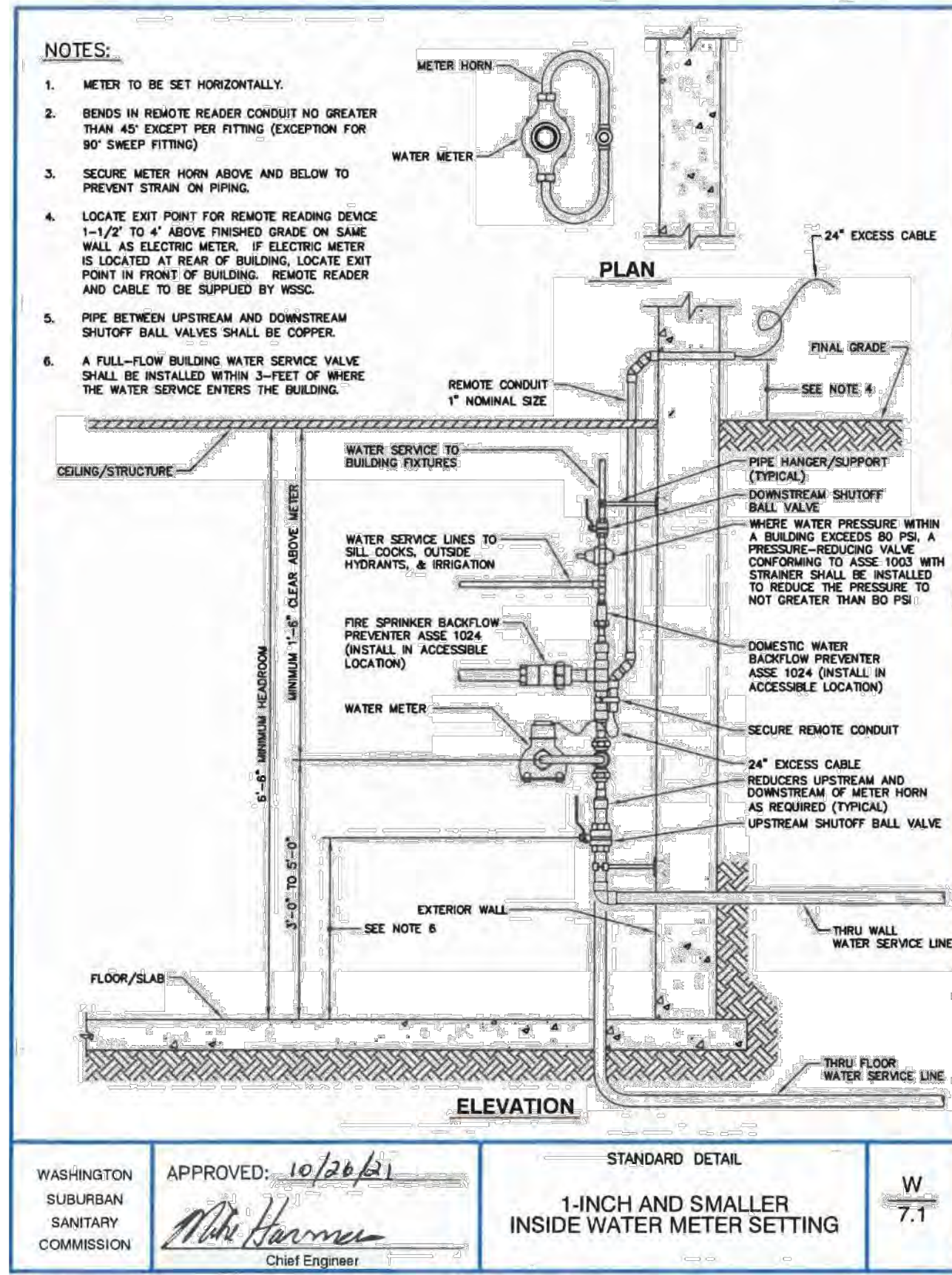




PROFESSIONAL CERTIFICATION:
 I CERTIFY THAT THESE DOCUMENTS WERE PREPARED
 OR APPROVED BY ME, AND THAT I AM A DULY
 LICENSED PROFESSIONAL ENGINEER UNDER THE
 LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 31168
 EXPIRATION DATE: 1/12/2025

WOOTTON AVENUE WATERLINE

WOOTTON AVENUE
 POOLESVILLE, MARYLAND



NO.	DATE	DESCRIPTION

DATE: JUNE 2023
 CAA PROJECT NO.: 100.047
 DRAWN BY: MC
 CHECKED BY: JA
 SHEET TITLE

SITE DETAILS (CONT.)

GENERAL NOTES

- 1. ALL TEMPORARY TRAFFIC CONTROL MEASURES SHALL BE SETUP PRIOR TO STARTING ALL WORK AND TAKEN DOWN AT THE END OF EACH WORK DAY.
2. ALL TEMPORARY TRAFFIC CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED PER THE LATEST MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS LOCATED WITHIN THE TEMPORARY TRAFFIC CONTROL AREA ALONG THE AFFECTED ROADWAY(S). CONTRACTOR SHALL NOTIFY ALL AFFECTED PROPERTY OWNERS OF THE INTENDED WORK A MINIMUM OF 72 HOURS IN ADVANCE. ALL TEMPORARY DRIVEWAY CLOSURE TIMEFRAMES SHALL BE COORDINATED WITH THE PROPERTY OWNER A MINIMUM OF 72 HOURS IN ADVANCE.
4. ANY MODIFICATIONS TO THE TEMPORARY TRAFFIC CONTROL MEASURES MUST BE APPROVED BY THE SHA TRAFFIC CONTROL INSPECTOR AND TOWN OF POOLESVILLE INSPECTOR/REPRESENTATIVE IN WRITING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING ALL PRE-CONSTRUCTION MEETINGS AND INSPECTIONS RELATED TO THE TEMPORARY TRAFFIC CONTROL PERMIT.
6. ALL ROADWAY PAVEMENT MARKINGS THAT ARE REMOVED/DAMAGED AS A RESULT OF THE PROPOSED WORK SHALL BE RESTORED AT THE CONTRACTORS EXPENSE.

PHASING NOTES

WOOTTON AVENUE:

- 1. INSTALL TEMPORARY TRAFFIC CONTROL SIGNAGE, CHANNELIZING DEVICES, AND FLAGGERS FOR SINGLE-LANE OPERATION AS SHOWN ON PLAN.
2. BEGIN WATER LINE CONNECTION TRENCH EXCAVATION AND EXISTING DRIVEWAY PAVEMENT REMOVAL. CONTRACTOR SHALL PROVIDE NECESSARY SHEETING AND SHORING FOR INSTALLATION.
3. AT THE END OF EACH WORK DAY STEEL PLATES AND ASSOCIATED ADVANCED WARNING SIGNS MUST BE USED TO COVER EXCAVATED TRENCH AREA WITHIN ROADWAY. CONTRACTOR SHALL TAKE DOWN FLAGGER OPERATION SIGNAGE AND MOVE CHANNELIZING DEVICES TO EDGE OF ROADWAY TO PROVIDE (2) TEN-FOOT WIDE MINIMUM TRAVEL LANES.
4. ONCE ALL WATER LINE CONNECTION, DRIVEWAY ENTRANCE, AND ROADWAY PAVEMENT RESTORATION WORK HAS BEEN COMPLETED WITHIN PHASE I WORK ZONE, CONTRACTOR SHALL RESTORE ANY ROADWAY PAVEMENT MARKINGS, SIGNAGE, AND PAVEMENT THAT WAS DAMAGED OR REMOVED AS PART OF THE PROPOSED WORK TO EXISTING CONDITIONS PER MSHA STANDARDS AND SPECIFICATIONS, WITH WRITTEN APPROVAL FROM THE TOWN OF POOLESVILLE INSPECTOR/REPRESENTATIVE. CONTRACTOR SHALL REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.
REPEAT STEPS 1 THRU 3 UNTIL WORK HAS BEEN COMPLETED WITHIN EAST F STREET PHASE I WORK ZONE.

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

NOTES:
1. MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES:
TAPER CHANNELIZATION - SHALL BE EQUAL IN FEET TO THE POSTED SPEED LIMIT FOR POSTED SPEEDS 40 MPH AND 40 FEET FOR POSTED SPEEDS GREATER THAN 40 MPH.
TANGENT CHANNELIZATION - SHALL BE EQUAL IN FEET TO TWICE THE POSTED SPEED LIMIT IN THE BUFFER AND EQUAL IN FEET TO THE POSTED SPEED ADJACENT TO THE WORK AREA FOR POSTED SPEEDS 40 MPH AND 40 FEET ADJACENT TO THE WORK AREA FOR POSTED SPEEDS GREATER THAN 40 MPH.

BUFFER LENGTH (BL)

Table with columns: PREVALENT SPEED LENGTH, 20 115, 25 155, 30 200, 35 250, 40 305, 45 360, 50 425, 55 495, 60 570, 65 645, 70 730, 75 820

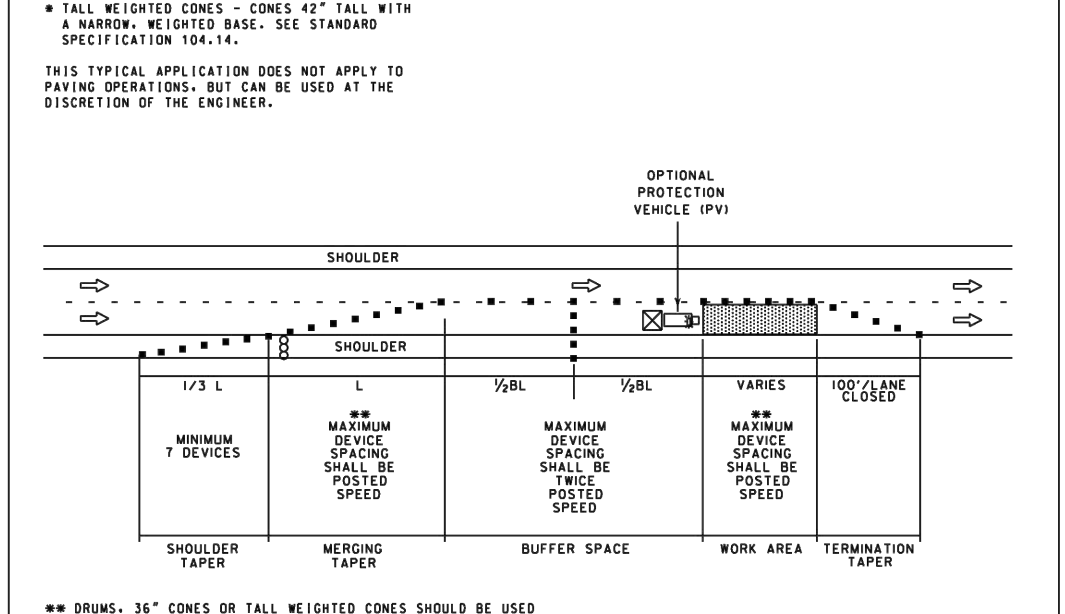
REFER TO LATEST PART VI OF THE MUTCD FOR ADDITIONAL SPEEDS/BUFFER LENGTHS AND ADJUSTMENTS TO BUFFER LENGTH DUE TO THE EFFECT OF GRADE ON STOPPING AND BRAKING FOR TRUCKS.

3. REFER TO STANDARD NO. MD 104.01-80 (TAPER LENGTH CRITERIA TABLE) FOR MINIMUM TAPER LENGTHS.

Specification and approval section for Maryland Department of Transportation State Highway Administration, Standard No. MD 104.01-81. Includes SHA logo and approval signatures.

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

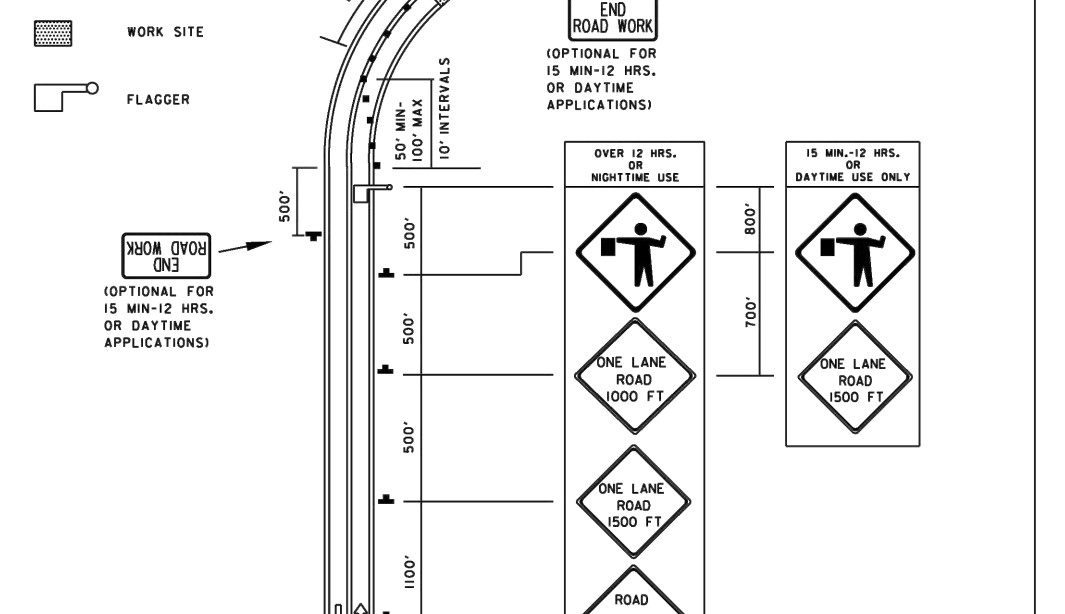
IMPORTANT: THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 - MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 - MD 104.01-10.
NOTES:
1. CHANNELIZING DEVICES:
a. 36" CONES OR TALL WEIGHTED CONES SHALL BE USED IN THE BUFFER AND ADVANCE WARNING AREAS.
b. 36" CONES OR TALL WEIGHTED CONES SHOULD BE USED ADJACENT TO THE WORK AREA.



Specification and approval section for Maryland Department of Transportation State Highway Administration, Standard No. MD 104.01-30 B. Includes SHA logo and approval signatures.

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

IMPORTANT: THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 - MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 - MD 104.01-10.
NOTES:
1. FLAGGER SHALL NEVER BE STATIONED MORE THAN 1000' AWAY FROM THE ADVANCE FLAGGER SIGN.
2. THE ENGINEER SHOULD CONSIDER ADDITIONAL ADJACENT LANE CLOSURES WHEN THE POSSIBILITY OF UNLAPLANED TRAVELWAY ENDOGENESIS EXISTS.



Specification and approval section for Maryland Department of Transportation State Highway Administration, Standard No. MD 104.02-10. Includes SHA logo and approval signatures.

Standard Temporary Traffic Control Operations Sign Spacing Chart. Includes a table for minimum distance from taper to sign and a diagram of a two-lane roadway showing termination, work, and transition areas.

Temporary Traffic Control Typical Application Taper Length Criteria Table. Includes a table relating speed (S) and width of offset (W) to taper length (L) and a diagram of a taper.

Temporary Traffic Control Typical Application Roadside Sign Support Placement. Includes diagrams for portable and rural district signs, and a table for urban district sign placement.

Temporary Traffic Control Typical Application Project Limits Signs. Includes a diagram showing the placement of 'ROAD WORK' and 'AHEAD' signs relative to the work zone.

Standard Detail for Steel Plate Detail (Method 2, Equal to or Less than 40 MPH). Includes a cross-section diagram of a steel plate on a trench and a table showing trench width and steel plate thickness.

CLARK | AZAR & ASSOCIATES logo and contact information: 20440 Century Blvd, Suite 220, Germantown, MD, 20874, (301) 528-2010, www.clarkazar.com. A Woman Owned Small Business.

Professional Engineer Seal for Clark Azar, License No. 31168, State of Maryland, expires 1/12/2025.

WOOTTON AVENUE WATERLINE
WOOTTON AVENUE
POOLESVILLE, MARYLAND

Table with columns: NO., DATE, DESCRIPTION.

DATE: JUNE 2023
CAA PROJECT NO.: 100.047
DRAWN BY: MC
CHECKED BY: JA

TEMPORARY TRAFFIC CONTROL NOTES AND DETAILS
SHEET
C-800

ADDENDUM #2
BID DOCUMENTS FOR
Wootton Ave Water Line Replacement
POOLESVILLE, MARYLAND
CONTRACT 100.047
February 16, 2024
4:00 p.m.

This addendum is issued as part of the Bid Documents for the above referenced project. The changes incorporated into this addendum shall be considered as part of the documents and shall supersede, amend, add to, clarify, or subtract from those conditions shown in the original documents. The bidder shall take care to incorporate modifications herein with all trades and disciplines related to the work. The bidder shall acknowledge receipt of this addendum on the Bid Form by addendum number and date. Failure to do so may subject the bidder to disqualification.

Response to question;

See attached

Note some questions in this addendum reference Addendum #1 answers.

Attachments:

- 1) Typically, the project follows WSSC specifications which would require flowable fill of existing main and existing valves removed as well as returned to WSSC for salvage purposes. Is Flowable fill required and are the existing valves required removed/salvaged or can they be abandoned in place with boundaries capped or bulkheaded?

Answer: Please see addendum #1, existing line is to be drained and capped, valves are to be abandoned in place.

- 2) The plans don't call for Proposed Fire Hydrants as discussed at Pre-bid, are contractors to include furnishing & installing new fire hydrants and if so is the WSSC detail applicable for installation & backfill requirements?

Answer: Yes

- 3) Are existing Fire Hydrants that get removed to be disposed of or will the Town's maintenance personnel be coming by the project to pick them up for salvage purposes?

Answer: You may dispose of them at Town WWTP.

- 4) Contractors in attendance at Pre-bid were instructed to proceed under the premise that no galvanized or Pex lines would be encountered and replacing Copper. Is there a salvage requirement (return to Town staff) for the existing Copper removed?

Answer: what copper is required to be removed to make the connection is the property of the contractor.

- 5) At some of the boundary locations an 8" valve is called for; however, a Frederick Co. detail no. 116.1 depicts a 2" gate valve & valve box - kindly confirm if an additional 8" gate valve is to be installed at each boundary in addition to the 2" valve & blowoff shown on the detail?

Answer: Please flow blow off a Frederick Co. detail no. 116.1 a 2" gate valve & valve box, only.

- 6) The Detail No. 4 on Sheet C-209, depicts a vertical drop w bends used to accommodate crossing all existing mains and states therein

that a portion of the existing cross main will need to be reconstructed after new main is operational - please clarify the intent and prescribed steps and if applicable to the existing watermain to be abandoned in place?

Answer: The it is envisioned that the contractor will need to leave the existing main an the new main active during connection to the laterals and the main connections. This may require the isolation of segments of the new main and existing main at various time during this process.

- 7) Buttresses are only called out at proposed 1/4 or 90 degree bends at a few locations on the plans however a few 1/32 bends, 1/16 bends may be required so as to not over-deflect the curvature of water mains called to attention on Detail No. 101.1 - will the Town also require buttresses at locations and bends not shown on the plans if and when installed?

Answer: Please refer to WSSC standard detail B 1.0

- 8) Trench repair details provide a standard for repairing concrete roadway pavements, will contractors be repairing any concrete pavement roadway on this project and if so, are you able to provide dimensions or known locations?

Answer: yes contractor will be replacing the flexible pavement (Asphalt).Please see addendum #1 for that detail. There are no concrete roads in this section of work.

- 9) Regarding Asphalt pavement full depth repairs, detail 3.1 stipulates a 6' minimum width for full depth asphalt including stone and an additional 3' cut back of full depth asphalt or total of 9' full depth. Is 9' the final mill / overlay width or is an additional 1' on either side required for surface layer of asphalt yielding a final 11' width in place restoration? Scaling off area on plans returns a 5' width which does not correlate to the detail?

Answer: Please see answer to previous question.

- 10) Water House Connection details on Sheet C-209 stipulate insulated joints and V-Bio Polyethylene encasement of copper services, is V-Bio poly required on all proposed watermains and copper installation(s)?

Answer: this is waved for this project.

- 11) On Sheet C-208, WSSC detail M8.3 stipulates a full depth encasement in concrete totally encompassing both proposed water main deflected under the existing water main, please confirm this is required of if only applicable to sewer crossings and if so required will the mains require wrapped in Neoprene Rubber where contact with concrete is made?

Answer: Only under sewer is encasement required, protection of concrete interface is required.

- 12) On Sheet C-209, detail 2 for Concrete Sidewalk stipulates reinforcing bars used but the note for type and spacing is cut off – are you able to provide these details for use in including costs accordingly?

Answer: concrete sidewalk repairs will not require reinforcement.

- 13) The Town has advised a laydown area will be provided for storage of materials for the project, valves are required stored on pallets and under roof per the Spec; please provide the location of the staging area and confirm the area covered by a roof will be provided by the Town as well? Additionally, will a separate staging area be required for equipment if not allowed parked in the Right of Way?

Answer: there are two lay down areas available the skate park and Steven's park neither are covered, due to construction at WWTP the roofed area is unavailable, contractor should plan on supplying a temporary structure such as a container if required.

Parking of equipment in Right of Way will not be practical due to the limited space for the residents.

- 14) Rock is mentioned in the documents to be incidental, but no sub surface exploration records were provided for determining accurate quantities of rock demo / excavation and disposal to include as costs to the Town. Will the Town consider making this a unit price – Contingency line pay item - on this project to assure actual service rendered for funds expended?

Answer: Please see Addendum #1

- 15) Contract documents advise that at the forthcoming Pre - construction meeting, the contractor will be told how many chlorination points (taps and corp stops) will be introduced on the proposed main for subsequent use - will the Town consider making this a unit price Contingent line pay item to assure payment is only made for accurate quantities provided?

Answer: No

- 16) At the pre-bid it was discussed that no Environmental and or State Right of Way permits were to be secured by the Contractor, please confirm which if any permits the Contractor must secure from a Town, County, State or Department (i.e. Roadside Tree, ROW, Plumbing, etc)?

Answer: this is a Town project, as stated at the completion of each days work the site must be stabilized.

- 17) At Prebid it was discussed that - parking appeared to be an issue on this project and enforcing No Parking & onsite Re-location of vehicles not adhering to “No Parking signs” might be an issue. Will the TOWN be towing / relocating the vehicles in a prompt and expedient manner to not delay planned daily construction activities and eliminate potential costs and impacts to the Contractor?

Answer: The Town will conduct removal of vehicles as soon as practical. The contractor will need to post the site of the schedule of work three days in advance and notify the residents individually using a flyer. Within that flyer there should be a note directing to the Town's web site for additional details.

Please note it will be important to notify the Town weekly of an updated schedule.

- 18) At Prebid it was discussed that no plumbing cards or tabulated data for the Water House connections is known at this time. Contractors were instructed to include costs for 1 1/2" taps on existing 8" main which introduce (WSSC 2510, 3.6.B.4) the need for a Service Saddle where costs for this saddle as well as reducers might not be required had this info been known and 1" taps made, will the Town consider unit price Contingency line pay items for various sizes to address actual project needs or should the aforementioned worst case scenario materials be priced as instructed?

Answer: No

- 19) Will the Town consider requests for additional time as discussed at Pre-Bid based on actual lead times provided from Suppliers for materials at the actual time of award or post verification of existing main sizes by Contractor under award?

Answer: yes it will be considered due to supply chain issues.

- 20) Has the Town exercised the valves on existing main and assured ability to shut down the water for tie in purposes, and in the event of failures to control flow for tie in purposes will claims be entertained by the Town for the additional cost(s)?

Answer: the Town has exercised the existing valves, if unforeseen

conditions are found Change orders will be considered.

- 21) As discussed at Pre-bid the water main materials per WSSC spec are to be Class 54, please confirm the Class of pipe and that B.A.B.A. requirements are not applicable.

Answer: See Addendum #1

Do you have a suggested staging area you recommend?

Answer: please see Previous answers

May we have a geotechnical report?

Answer: Wooton Avenue Addendum #1 shows Boring Logs Kohlhoss project no Borings were conducted

Will the owner reimburse for existing utilities damaged if not shown on the plans?

Answer: Contractor is to coordinate with Miss Utility if marks are not correct and plans do not show a utility correctly and a utility is damaged then the Town would reimburse. Please note test pitting should also take place to confirm depth of noted utilities as need by the contractor.

Due to current supply chain issues, will the owner consider issuing a second NTP for delays due to material availability?

Answer: The Town is aware of the continuing Supply chain issue and will consider on a as needed basis.

When actual conditions are different from the geotechnical report/information provided, will the contractor be entitled for additional compensation?

Answer: Yes please see addendum #1

Can you provide a website or documentation showing actual existing utilities?

Answer: no Town records are incomplete

Is there a minority or small and/or local business goal affiliated with this contract?

Answer: please see contract documents.

If so, what is the goal?

Answer: Please see contract Documents.

Do prevailing wages apply? If so, may I please have a copy of the applicable wages?

Answer: Please see Previous Answer to similar questions.

Please confirm the size of the water house connections.

If the size of the water house connections is larger or smaller, If we exceed 3' reconnections, will owner reimburse for additional linear footage?

Answer: please refer to plans for dimensions, if for some reason at the connection point from the Main to the Existing lateral is longer than depicted on the plan then yes. Please note this will need to be confirmed by Town staff and reason why.

Will you provide technician for compaction?

Answer: Geotechnical technician will be the responsibility of the contractor for testing.

Please provide a Pipe Trench Detail.

Answer: Please follow WSSC standard Details

Please Clarify if the existing Hydrants will be replaced or they will stay in place.

Answers: Please see previous Answers.

Do we have to abandon existing pipe?

Answer: Please see previous Answers.

Do we have to provide a temporary water main in order to keep the houses with service?

Answer: Please Previous answers.

Do we have to abandon the existing water main with Flowable fill?

Answer: please see Previous answers

The plans are clear what portion of the trench has to be a proposed full depth asphalt pavement replacement within the limit of utility trenches and it is clear that the width between the dashed lines has to be 1.5" mill and overlay. Please confirm that we have to follow the plans.

Answer: Please see addendum #1

Please clarify also that the width of the patch trench has to follow the provided detail.

Answer: Please see addendum #1