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TOWN OF LEESBURG, VIRGINIA
DEPARTMENT OF CAPITAL PROJECTS MANAGEMENT
25 WEST MARKET STREET
LEESBURG, VIRGINIA 20176

LOWER SYCOLIN SEWAGE CONVEYANCE SYSTEM
IFB No. 07404-FY12-01

ADDENDUM NO. 1
November 16, 2011

To Bidders:

This Addendum is hereby made a part of the Contract Documents on which all bids will be based and is issued to correct and clarify the original documents. All changes, additions or deletions included herein as Addendum No. 1 shall become a part of the Contract Documents as if originally called for in the Plans and Specifications.

Please acknowledge receipt of this Addendum at the appropriate space on the Bid Form by inserting its number and date. This Addendum consists of two (2) pages and five (5) attachments. This addendum forms a part of the Contract Documents as it supplements and/or modifies as follows:

ITEM NO. 1:

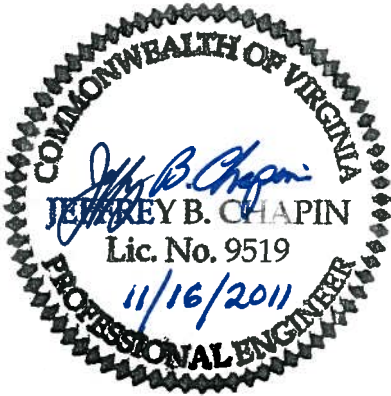
Pre-bid Meeting: Meeting minutes from the November 10, 2011 Pre-Bid Conference held at Utility Maintenance Building, 1385 East Market Street, Leesburg, VA, including responses to those questions posed are attached (**Attachment 1** – Agenda, Sign-in Sheet and Pre-bid Meeting Minutes).

ITEM NO. 2:

Clay Check Dam: PLAN SHEET PP-11 (31 of 47) ADD NOTE 1. The Contractor shall install five clay dams in accordance with the clay dam detail (**Attachment 2**) attached to Addendum No.1. One clay dam should be located between manholes 28 and 29, 27 and 28, 26 and 27, 25 and 26, and upstream of manhole 29.

ITEM NO. 3:

Specifications SECTION 02220 paragraph 3.10 Pipe Bedding B. Crushed Stone Cradle (Granular Material) at the end of the paragraph 1 ADD "The bedding for ductile iron pipe shall be as described above and in accordance with Town of Leesburg Design and Construction Standard Drawing SD-5 Class B Bedding (**Attachment 3**) a copy of which is attached to this addendum with the correct bedding circled."



ITEM NO. 4:

Specification SECTION 02800 Paragraph 1.1. SCOPE OF WORK: In the first sentence of paragraph C to DELETE “and wet well shall be removed” and SUBSTITUTE “The entire existing pump station building shall be demolished and removed and the wet well structure shall be crushed in place and then backfilled with sand with no debris remaining within the top two feet below grade after pumping out the wet well and disinfecting the wet well by spraying chlorine solution of 200 mg/L.” DELETE “C.3 “Removing the wet well structure and pump station building” and SUBSTITUTE “C.3. Removing the pump station building and crushing the wet well structure in place. Prior to crushing wet well structure, the wet well shall be pumped out and the wet well structure shall be disinfected by spraying chlorine solution of 200 mg/L.”

END OF ADDENDUM NO. 1

Agenda
Pre-Bid Meeting
IFB No. 07404-FY12-01
Lower Sycolin Sewage Conveyance System

Date: Thursday November 10, 2011
Time: 10:00 a.m.
Location: Utility Maintenance Building Conference Room

1. Introduction of the attendees and signup sheet
2. Brief Description of the Project
3. Geotechnical Information
4. Bid Form
 - Base Bid
 - Stipulated Prices
 - Basis of Award
 - Exclude Tax
 - Bids good for 60 days. No escalation clause
5. Bid Opening
 - Date and Time
 - Location
6. Schedule
7. Access to the Site and Lay-down Area
8. Coordination with the County
9. Permits
 - Building and Grading
 - Trade (mech., plumb., elect.)
 - Land Disturber -
 - County Trailer Permit
 - County/Town Business License
10. Site Utilities
 - Coordination with the Town
 - Coordination with Columbia and Dominion Gas Companies
 - Coordination with Northern Virginia Electric Coop
 - Coordination with Verizon
10. Addenda
11. Comments / Questions

Please sign in here
Lower Sycolin Sewage Conveyance System
IFB No. 07404-FY12-01
Pre-Bid Meeting
November 10, 2011 @ 10 a.m.

1. Name: Asghar Parirao
Company: Town of Leesburg
Address: 1385 East Market street, Leesburg, VA 20176
Phone & email: 703/737-7130 aparirao@Leesburgva.gov

2. Name: Renee LaFollette
Company: Town of Leesburg Capital Projects
Address: 25 W Market St
Phone & email: 703-737-6071 rlafollette@leesburgva.gov

3. Name: Jack Tucker
Company: General Excavation Inc
Address: 9757 Rider Rd, Warrenton, VA 20187
Phone & email: 540-439-2202 jtucker@gei-va.com

4. Name: John Creamer
Company: Town of Leesburg
Address: 1385 East Market St Leesburg VA
Phone & email: 703-737-7076 JCREAMER@LeesburgVA.GOV

5. Name: Ed Routh
Company: TOL
Address: 1391 East Market St
Phone & email: erockholt@leesburgva.gov
6. Name: Joe Alvarez
Company: Alvarez Contractors
Address: Box 94 Springdale WV
Phone & email: 304 484 7759 (Gary Walker)
7. Name: ED PAYSON
Company: NORAIR ENGINEERING CORP
Address: 337 BRIGHT SEAT Rd SUITE 200 LANDOVER MD 20875
Phone & email: 301-499-2202 E PAYSON@NORAIR.COM
8. Name: ED RAINES
Company: DEWBERRY
Address: 8401 ARLINGTON BLVD
Phone & email: 540-842-2611 - RRAINES@Dewberry.com
9. Name: VEL SUBRAMANIAN
Company: DEWBERRY
Address: 8401 ARLINGTON BLVD
Phone & email: 703-849-0310 - VSubramanian@Dewberry.com

10. Name: LOUG GEORGE L.
Company: KAPPE ASSOCIATES, INC
Address: PO BOX 7986, CHARLOTTESVILLE 22906
Phone & email: 434/985-7090 kappeva@cstone.net
11. Name: JOHN MCKAY
Company: MARCH WESTIN
Address: 7313 MARYLAND AVE. BALTIMORE MD.
Phone & email: 443 220-5391 jmckay@marchwestin.com
12. Name: DANIEL GOOD
Company: BAY COUNTRY CONTRACTORS
Address: 10 HAZEL PARK LANE FREDERICKSBURG VA 22405
Phone & email: 540-318-8633 dgood@baycc.net
13. Name: FRED ASH
Company: PERRY ENGINEERING & INC
Address: 1945 MILLWOOD PIKE, WINCHESTON, VA 22602
Phone & email: 540-667-4310x682 fash@perryeng.com
14. Name: DUSTY ELLIOTT
Company: SNYDER ENVIRONMENTAL SERVICES, INC.
Address: 270 INDUSTRIAL BLD. KENNESAWVILLE WV 25480
Phone & email: (304) 886-2506 dellott@snyderem.com

15. Name: Aref Etemadi
Company: Town of Leesburg
Address: _____
Phone & email: 703/771 2750 aetemadi@LeesburgVa.gov
16. Name: BRUCE GALBRAITH
Company: WG CONSTRUCTION CO, INC.
Address: 9251 INDUSTRIAL CT MANASSAS, VA 20109
703 335 -5599
Phone & email: BRUCEG@WGCONSTRUCTION.COM
17. Name: Jeff Chapin
Company: Dewberry
Address: 8401 Arlington Boulevard, Fairfax, VA 22031
Phone & email: 703-849-0555 jchapin@dewberry.com
18. Name: L.C.W. Construction
Company: _____
Address: _____
Phone & email: _____
19. Name: Roy Messick
Company: L.C.W. Construction
Address: 221 Aviation Drive Winchester VA, 22602
Phone & email: ⁵⁴⁶⁻665-0136 www.LCWConstruction.com

**TOWN OF LEESBURG, VIRGINIA
DEPARTMENT OF CAPITAL PROJECTS MANAGEMENT
25 WEST MARKET STREET
LEESBURG, VIRGINIA 20176**

LOWER SYCOLIN SEWAGE CONVEYANCE SYSTEM

Pre-Bid Meeting Minutes

To: Distribution

November 16, 2011

From: Jeff Chapin/Dewberry

IFB No. 07404-FY12-01

Attendees: Refer to sign-in sheet (attached)

The following items were discussed at the above referenced Pre-Bid Meeting for the Town of Leesburg's Lower Sycolin Sewage Conveyance System Project. The conference was held at 10:00 AM, on Thursday, November 10, 2011, at Utility Maintenance Building, 1385 East Market Street, Leesburg, VA.

1. Introduction of the attendees and signup sheet

Mr. Asghar Pariroo, Town Project Manager, opened the meeting and all attendees at the meeting went around introducing themselves.

All attendees filled out the sign-in sheet provided.

Mr. Asghar Pariroo, Town Project Manager, requested Mr. Jeff Chapin, Dewberry to provide the description of the project.

2. Brief Description of the Project

Mr. Jeff Chapin briefly described the project as follows:

The project includes the construction of sanitary sewer, a new pump station and a new force main. The new 8 inch and 12 inch gravity sanitary sewer extends from the existing Airport Pump Station located off Sycolin Road to a new Pump Station site located off Cochrane Mill Road just west of the intersection with the W&OD Bike Trail. The 10 inch force main extends from the new Pump Station along the gravity route and then splits off to Kincaid Boulevard and discharges into an existing manhole. Almost all of the construction work will be located in Bolen Park in Loudoun County with the exception of the force main in Kincaid Boulevard and the sewer construction near Airport Pump Station which are located within the Town of Leesburg. Specifications Section 01010



includes copies of permits and approval letters and the Contractor shall comply with the requirements of these documents. There are two large gas mains and Dominion Virginia Power transmission lines which the piping must cross under in accordance with the existing utility owner requirements. The new 580 gpm pump station includes an influent manhole, comminutor vault, wet well with 2- 60 hp submersible pumps and provisions for Town addition of a future third pump to increase pumping capacity, valve vault, flow meter vault, control building, and an emergency storage tank as shown on the plans. The pump station also includes a paved access road and a 2 inch water line connecting to an existing Town water main along a roadway in Bolen Park as shown on the plans. For construction access to the pump station site, the Contractor shall build a temporary access road off Cochrane Mill Road as shown on the plans. Four soil borings were taken at the pump station site and are included in a geotechnical report available to bidders. The lump sum bid price for the pump station shall include all rock excavation. No borings were taken along the pipelines. The bid form includes two line items each for trench excavation and backfill for both the Gravity Sewer and the Force Main assuming one half of the excavation volume is in rock and the other half is unclassified with unit prices in cubic yards for both rock excavation and unclassified excavation as indicated in the bid form. When the new sewer piping, force main and pump station are constructed, tested and approved by the Town, the Contractor shall divert sewage flow from the Airport Pump Station into the new gravity sewer and demolish the existing Airport Branch Pump Station as specified and shown on the plans. Some of the piping was staked out in the field approximately 3 years ago, but the piping alignment was since revised and thus the stakes and stations marked on the stakes do not match the piping alignment and stationing shown on the bid set plans.

3. Geotechnical Information

Four soil borings were taken at the pump station site and are included in a geotechnical report available to bidders. Based on the Loudoun County Geological map, much of the project site is underlain by diabase bedrock.

4. Bid Form

Ms. Renée LaFollette, Acting Director, advised to make sure that the numbers are right in bid form. If math errors are found, the numbers will be recalculated as described in Instructions to Bidders under "Consideration of Bids" and the corrected numbers will be used to compare all bids.

Ms. Renée LaFollette, Acting Director, noted that the stipulated price in the bid form will be utilized by the Town of Leesburg, if necessary.

Ms. Renée LaFollette, Acting Director, reminded that the bid form shall be accompanied by bid bond or cashier's check as described in Instructions to Bidders under "Bid Bond".

Ms. Renée LaFollette, Acting Director, noted that the bid will be awarded to the lowest

responsive and responsible bidder as described in Instructions to Bidders under "Award".

Bid shall remain open for a period not less than 60 days following opening of the bid.

Mr. Asghar Pariroo, Town Project Manager, noted that this project is exempt from Virginia Sales and Use Tax under Section 58.1-609.3(9) and the necessary forms are included in the contract documents.

5. Bid Opening

Mr. Pariroo stated that the bids will be opened, and read aloud at Third Floor 25, West Market Street, Leesburg, VA on November 30, 2011 – 3:30 P.M.

6. Schedule

As detailed in Agreement, Section 3, the Contract Duration is 390 days to substantial completion and 450 days to Final Completion. Liquidated damages are \$500 per day as detailed in the Contract Documents

7. Access to the Site and Lay-down Area

The site can be accessed from three locations, from Kincaid Blvd, from the existing pump station site off Sycolin Road, and from Cochrane Mill Road as shown on plans. The proposed pump station site and sewer easement along the piping alignment can be used for staging area. However, additional lay down area may be available if necessary as the adjacent land in the project area is park, and not the residential area.

8. Coordination with the County and Town

Most of the project site is located in Loudoun County except a portion of proposed force main on Kincaid Blvd and existing pump station site which are located in Town of Leesburg. It was noted that the contractor shall coordinate with the County and the Park Authority. The site plan approval letter from Loudoun County is enclosed in the specifications (See the end of Specifications Section 01010).

9. Permits

Mr. Pariroo and Ms. Renee LaFollette stated the Town will acquire the Loudoun County Land Disturbance Certificate and Erosion and Sediment Control Permits. The contractor is responsible for complying with the permit requirements.

The contractor is required to have the VDOT temporary entrance permit in his/her name. However, the Town will assist in obtaining the permit including paying the applicable fees.

No blasting is allowed in Kincaid Blvd within Town of Leesburg limits. For other areas, the contractor shall have to work with the Fire Marshall for blasting permit. Dominion Virginia Power, Columbia Gas and Dominion Gas Transmission also have strict requirements pertaining to blasting near their utilities

The Town will obtain building permit and the contractor will be required to obtain all trade permits (i.e. plumbing, electrical, mechanical, etc.) and Right of Way permit from the Town required for work in Kincaid Blvd.

The General Contractor as well as all Subcontractors will be required to obtain a Loudoun County and Town Business License prior to construction

The Contractor shall comply with all other permits such as US Army Corps, Columbia Gas, Dominion Gas Transmission, Dominion Virginia Power, VDEQ, Loudoun County included in the contract documents. (See permits and approval documents included at the end of Specifications Section 01010)

10. **Site Utilities**

Coordination with the following Utility Owners will be required:

- Town of Leesburg
- Loudoun County
- Northern Virginia Electric Corporation (NOVEC) – To bring power to the site.
- Columbia Gas
- Dominion Gas Transmission
- Dominion Virginia Power

11. **Addenda**

Pre-Bid Meeting Minutes and the Sign-in Sheet will be made available via addendum and will be posted at the Town's web site: www.leesburgva.gov.

12. **Comments and Questions**

1. Q. Are as-built drawings available for the existing pump station?
 - A. Yes. As-built drawings (**Attachment 4**) for the existing pump station are included in this addendum.
2. Q. Is bid form available in excel spreadsheet?
 - A. During the meeting, the Town agreed to provide the bid form in excel spreadsheet and made available through the Town's website for bid addenda. However,

Town's purchasing policy is not allowing the Town to post the excel spreadsheet. Therefore, the excel spread sheet will not be provided.

3. Q. Are we responsible for permit fees?

A. No. The Town Leesburg will obtain the Loudoun County Land Disturbance Certificate, Erosion and Sediment Control Permit. However, the contractor is responsible for complying with the permit requirements. The contractor will have to obtain trade permits, Right of Way permit required for Kincaid Blvd. However, the fee for obtaining the Right of Way permit will be waived. The contractor is required to have the VDOT temporary entrance permit in his/her name. However, the Town will assist in obtaining the permit including paying the applicable fees.

4. Q. Are we responsible for water line tapping fee?

A. No. The contractor is not responsible for water line tapping fee.

5. Q. Who will pay for the utility connection fee?

A. The Town of Leesburg will pay the NOVEC utility connection fee.

6. Q. Who will pay for the Columbia Gas Line costs?

A. The Town of Leesburg will pay for the cost associated with ACVG survey costs and any gas transmission main recoat costs if necessary. However, the Contractor shall delay construction of piping and the permanent access road located within the right of way of the gas main for up to nine months from Notice to Proceed to allow for any necessary ACVG surveys, recoat or other improvements to the gas transmission mains to be completed by others prior to installing the pipe crossings of the gas transmission mains, and the contractor meet with all gas company requirements as specified in SPECIFICATION SECTION 01010 Paragraph 1.42 A.

7. Q. Is casings under gas lines envisioned as open cut or jack and bore?

A. Plans do not indicate whether the casings are open cut or jack and bore. The contractor shall install the piping under the gas lines as shown on the plans using means and methods which comply with all gas company requirements at no additional cost to the Owner..

8. Q. Can shot rock be used for access road?

A. The contractor can use shot rock as a road bed material along the pipe line alignment which shall be top soiled and seeded as per specification.

9. Q. What about the excess spoil?

A. It is the contractor's responsibility to dispose of the excess spoils properly. There may be opportunities for disposal of the excess spoil in a nearby quarry or Bolen Park, but this will need to be investigated and confirmed by Bidder discussions with the quarry owner and the Park Authority.

10. Q. What is the website to look for bid addenda?

A. Bid addenda will be posted at the Town's web site: www.leesburgva.gov.

11. Q. On Chester's drawings, where is sheet no. 38 referenced for riprap lining?

A. Yes. Sheet No. 38 (**Attachment 5**) referenced in Chester's drawing is included in this addendum.

12. Q. On Chester's drawings, how the sewer is terminated with manhole or clean out? Please clarify.

A. Sewer end shall be capped and the stake shall be placed for location. Neither a clean out or manhole is required at this location although Chester's plan calls for "Clean out Constructed by Others" at this location.

13. Q. Clarify the testing requirements.

A. The contractor is responsible for all QA/QC tests required for this project as specified in SPECIFICATION SECTION 01010 Paragraph 1.29.

14. Q. When is the construction of the project expected to start?

A. The construction is expected to start in late January or early February.

Below are answers to the questions received by the Town in writing:

15. Q. What is the approximate length, size and type of pipe that will be installed?

A. This information is provided in the contract documents. Please refer to the bid form in the contract documents.

16. Q. Are there any portions of the project that will need to be bored?

A. Please refer to the plans and answer to Question 7 above.

17. Q. Are the crossings to be Jack & Bored or Directionally Bored?

A. Please refer to the plans and answer to Question 7 above.

18. Q. What are the approximate lengths of the portions to be bored?

B. Please refer to the plans and answer to Question 7 above.

Below are some additional clarifications provided by the Town but not discussed in the meeting:

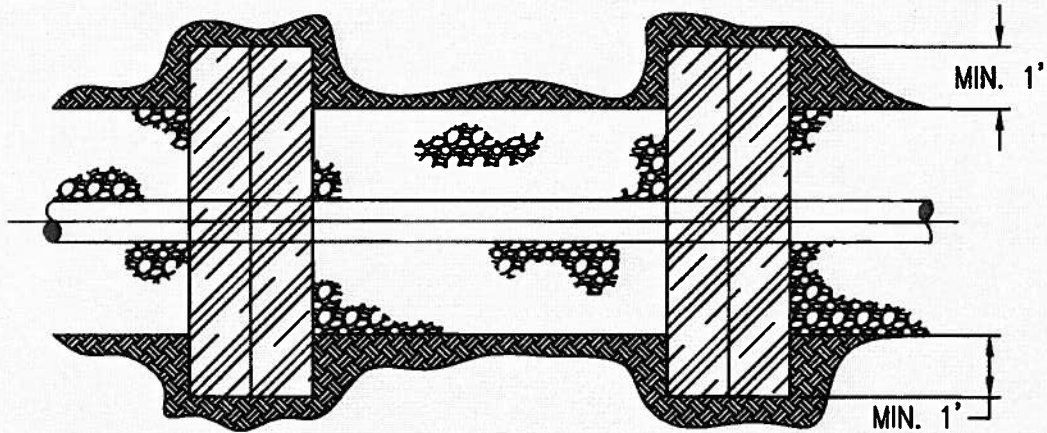
- The Contractor will be required to obtain a Trailer Permit from the County or Town as applicable for all trailers installed onsite during construction.
- The Town Leesburg will obtain DCR permit. However, the contractor is responsible for complying with the permit requirements.
- In regard to Question 2. Although the Town agreed to provide the bid form in excel spread sheet at the meeting, the Town's purchasing policy will not allow the Town to post the excel spreadsheet. Therefore, the excel spread sheet will not be provided.

13. Closing

The Pre-Bid Meeting was adjourned at 11:15 A.M. and interested attendees were taken to the project site.

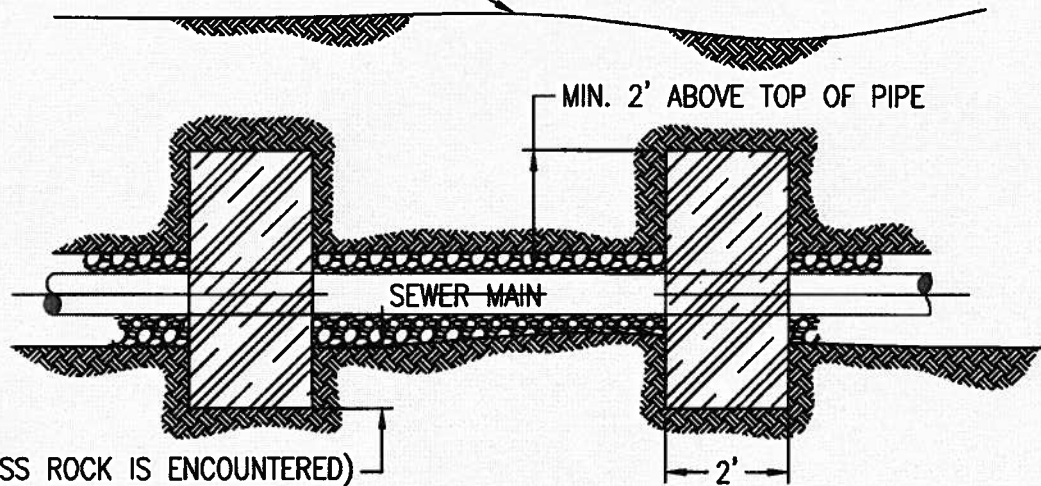
END OF PRE-BID MEETING

THE MEETING MINUTES SUMMARIZED ABOVE ARE OUR UNDERSTANDING OF THE SUBJECT MATTER DISCUSSED DURING THIS MEETING. PLEASE NOTIFY TOWN IN WRITING IF YOUR UNDERSTANDING DIFFERS WITH OUR SUMMARY.



TOP VIEW

EXISTING GROUND ELEVATION



1' (UNLESS ROCK IS ENCOUNTERED)

SIDE VIEW

NOTES:

1. SPACING TO BE DETERMINED BY THE DESIGN ENGINEER/INSPECTOR.
2. CLAY DAM (MIN. IMPERVIOUSNESS = 10^{-3} CM/SEC)
3. ALTERNATE MATERIALS INCLUDES SOIL MIXED WITH CEMENT AND CONCRETE.
(MATERIALS TO BE APPROVED BY DESIGN ENGINEER PRIOR TO PLACING.)

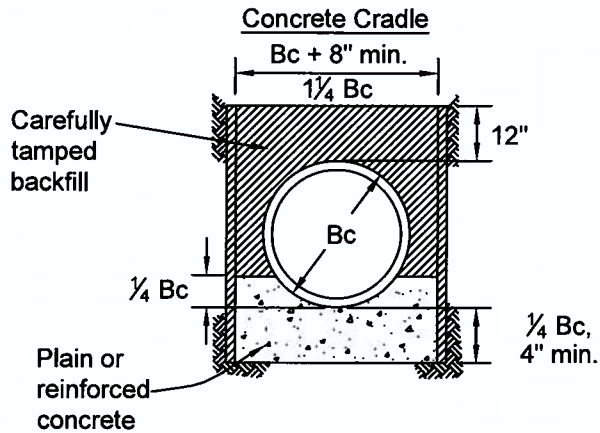
CLAY DAM DETAIL

NTS

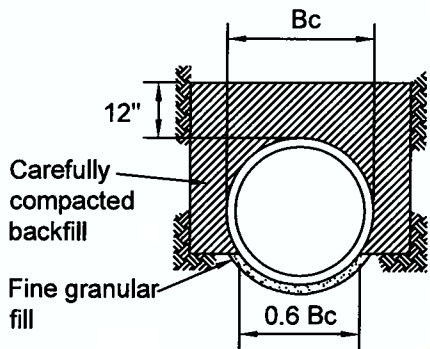
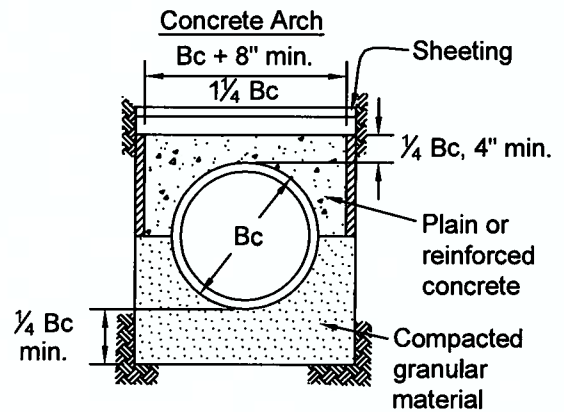
The Town of Leesburg in Virginia

DESIGN AND CONSTRUCTION STANDARD

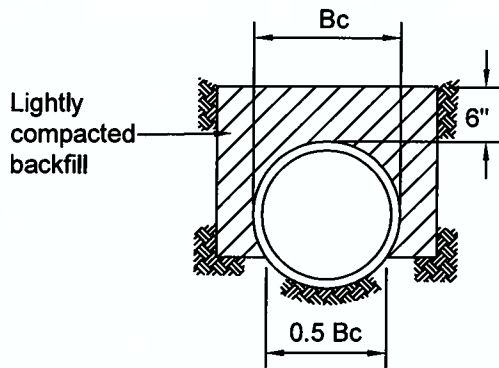
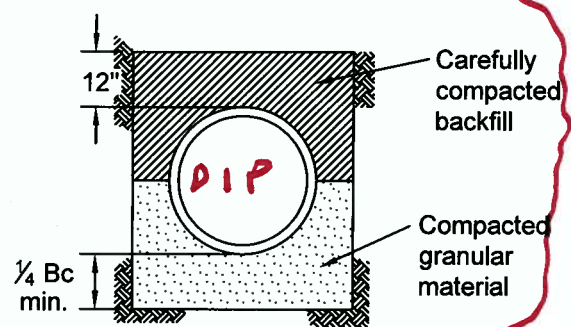
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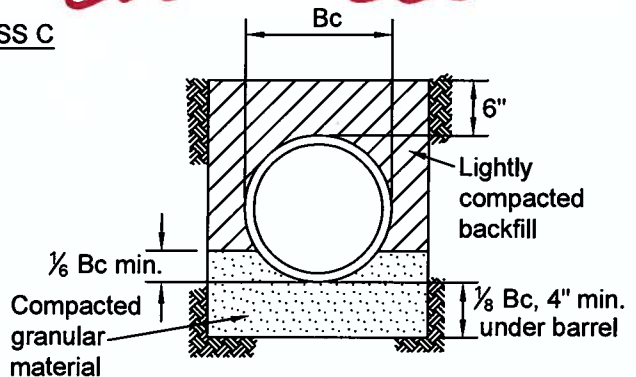
CLASS A



CLASS B



CLASS C



Shaped Bottom, load factor 1.5

Granular Bedding, load factor 1.5

NOTES:

- A. In rock trench, excavate at least 6" (15 cm.) below the bell of the pipe except where concrete cradle is used.
- B. Compacted granular material for **D.I.P.** and P.V.C. pipe is VDOT crushed stone No. 68 or No. 78.

Not To Scale

REVISIONS			
NO.	DATE:		
1			

CONDUIT BEDDING
SEWER LINES

DRAWING
SD-5

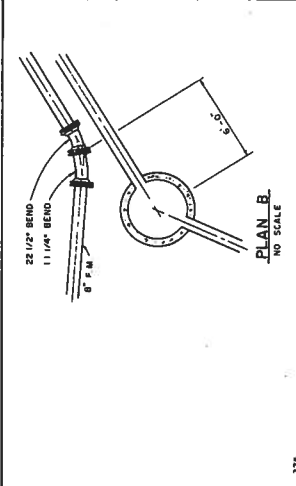
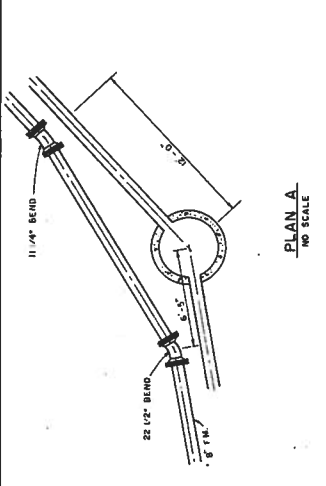
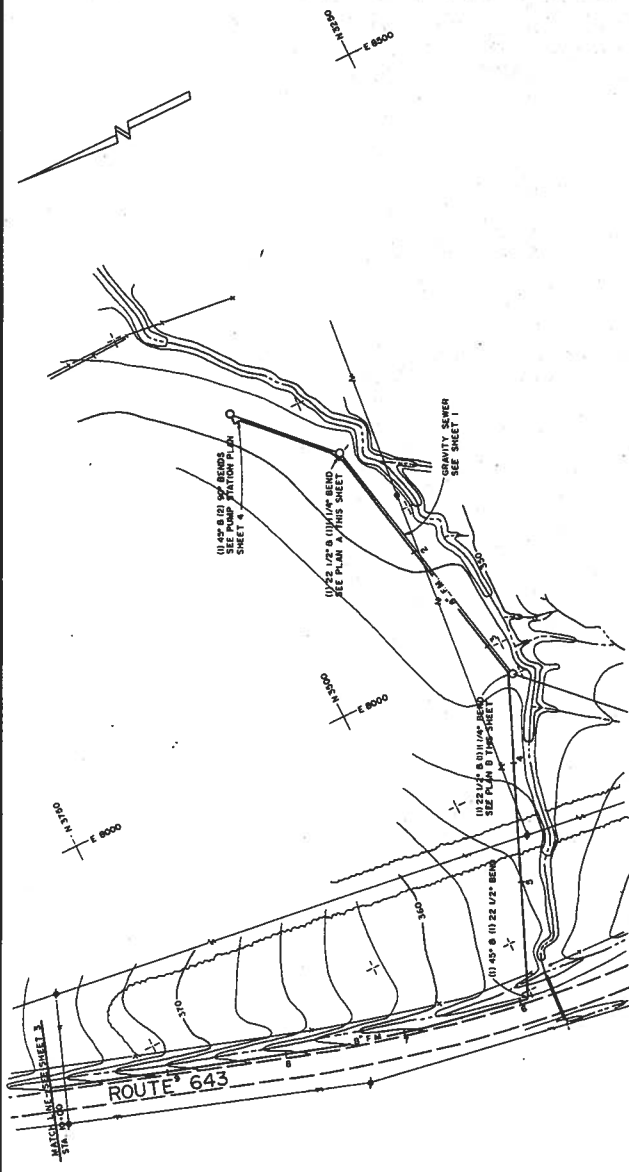
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TOWN OF LEESBURG

**AIRPORT SEWER EXTENSION
PUMP STATION, FORCE MAIN
& COLLECTOR SEWER**

1983

**JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.
RESTON, VIRGINIA**



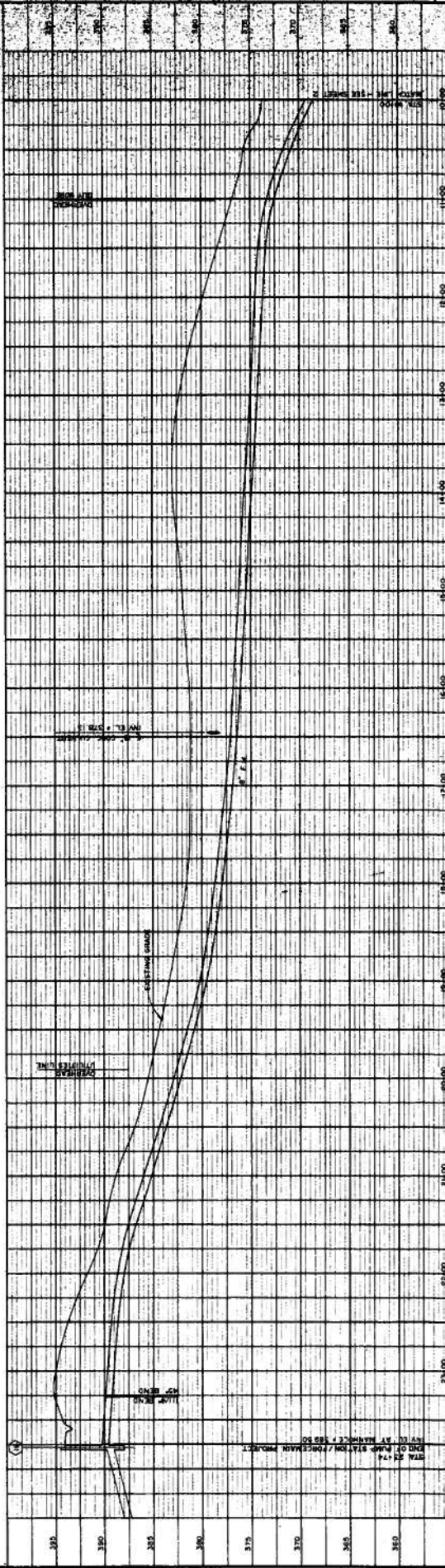
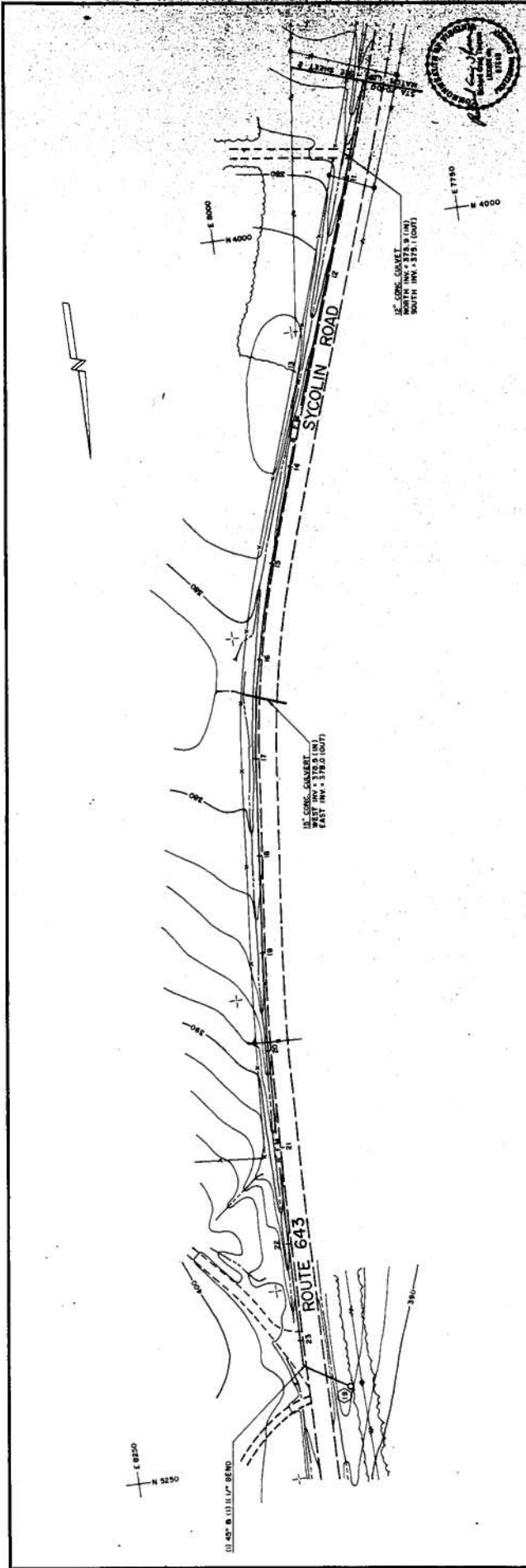
STATION	VERT. ELEVATION	PIPE SIZE	PIPE SLOPE	MANHOLE ELEVATION	MANHOLE DIA.	REMARKS
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TOWN OF LEBBURG
AIRPORT SEWER EXTENSION - COLLECTOR & PUMP STATION
FORCE MAIN
STATION 0+00 TO 10+00

SHEET **2** OF 7 SHEETS

DATE: _____ DATE: _____
 APPROVED: _____ DATE: _____
 PREPARED BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____

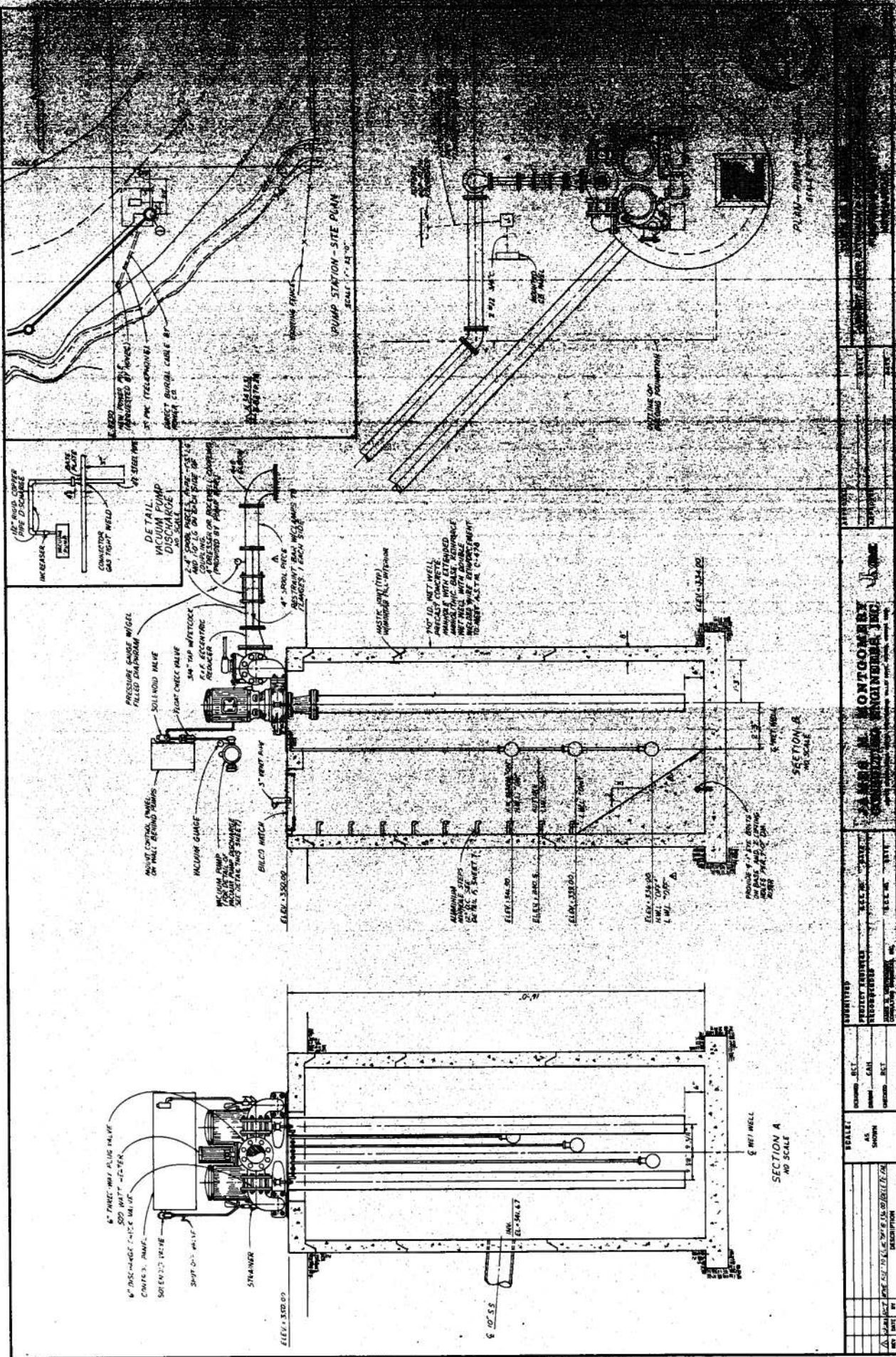
JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC.
MEMBER OF THE PROFESSION OF ENGINEERS AND SURVEYORS, STATE OF TENNESSEE



PROJECT REVIEWED BY: <u>LEE M. DITT</u> CHECKED BY: <u>CAH</u> DATE: <u>11/10/74</u>				PROJECT REVIEWED BY: <u>LEE M. DITT</u> CHECKED BY: <u>CAH</u> DATE: <u>11/10/74</u>			
DRAWN BY: <u>CAH</u> CHECKED BY: <u>CAH</u> DATE: <u>11/10/74</u>				DRAWN BY: <u>CAH</u> CHECKED BY: <u>CAH</u> DATE: <u>11/10/74</u>			
SCALE: HORIZ. 1" = 40' VERT. 1" = 5'-0"				SCALE: HORIZ. 1" = 40' VERT. 1" = 5'-0"			
TOWN OF LEESBURG AIRPORT SEWER EXTENSION - COLLECTOR & PUMP STATION FORCE MAIN STATION 10+00 TO 28+74				TOWN OF LEESBURG AIRPORT SEWER EXTENSION - COLLECTOR & PUMP STATION FORCE MAIN STATION 10+00 TO 28+74			
SHEET NO. <u>3</u> OF <u>7</u> SHEETS				SHEET NO. <u>3</u> OF <u>7</u> SHEETS			

JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC.
 REGISTERED PROFESSIONAL ENGINEERS
 1000 WESTERN AVENUE, SUITE 1000, WASHINGTON, D.C. 20004

NO.	DATE	BY	DESCRIPTION



JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC. 1000			
QUANTITIES PROVIDED REVISIONS	SCALE	DATE	SHEET
CHECKED BY	DRAWN BY	DATE	SHEET
...

PUMP STATION - SITE PLAN
SCALE 1/4" = 1'-0"

PUMP STATION - SITE PLAN
SCALE 1/4" = 1'-0"

DETAIL VACUUM PUMP DISCHARGE
SCALE 1/4" = 1'-0"

SECTION B
NO SCALE

SECTION A
NO SCALE

6" 100' W.P. PLUG VALVE
500 W.P. CHECKER
4" DISCHARGE CHECK VALVE
CONTR. PUMP
500 W.P. VALVE
SHUT OFF VALVE
STRAINER
ELEV. 330.00

NOT TO BE WELL
PUMPED WITH EXTENDED
MANUAL BACK VALVE
WELL WITH DOUBLE
TO MEET A.S.T.M. C-128

PROVIDE 4" TO 6" ANGLE
IRON PLATE 2" DIA.
BUSH

ELEV. 334.00
H.W.L. OFF
L.M.L. 317.50

ELEV. 330.00
H.W.L. OFF
L.M.L. 317.50

ELEV. 326.00
H.W.L. OFF
L.M.L. 317.50

ELEV. 322.00
H.W.L. OFF
L.M.L. 317.50

ELEV. 318.00
H.W.L. OFF
L.M.L. 317.50

ELEV. 314.00
H.W.L. OFF
L.M.L. 317.50

ELEV. 310.00
H.W.L. OFF
L.M.L. 317.50

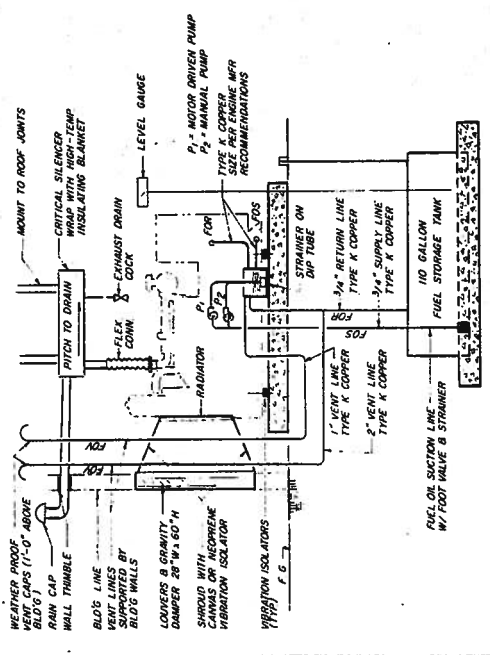
ELEV. 306.00
H.W.L. OFF
L.M.L. 317.50

ELEV. 302.00
H.W.L. OFF
L.M.L. 317.50

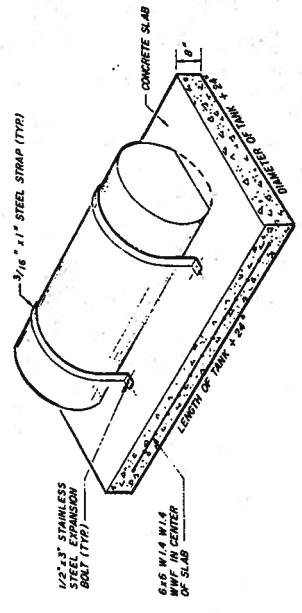
ELEV. 298.00
H.W.L. OFF
L.M.L. 317.50

ELEV. 294.00
H.W.L. OFF
L.M.L. 317.50

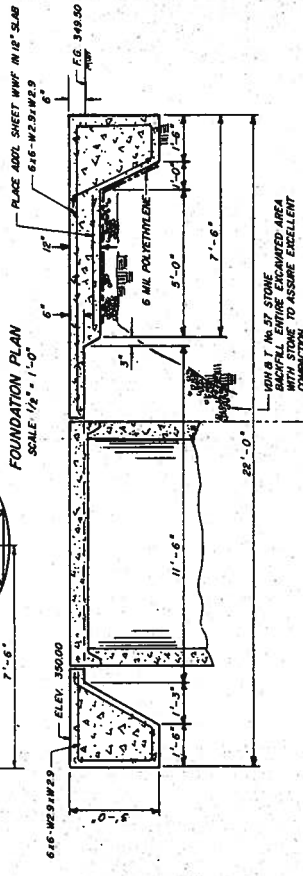
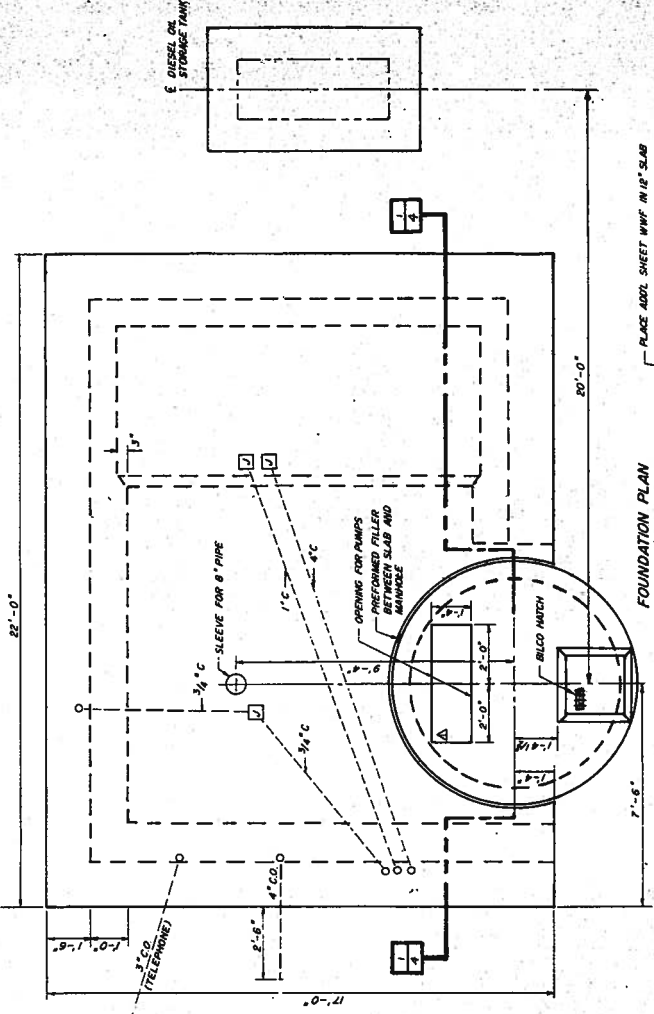
ELEV. 290.00
H.W.L. OFF
L.M.L. 317.50



SCHEMATIC - ENGINE GENERATOR FUEL SUPPLY & EXHAUST SYSTEM
NO SCALE



ISOMETRIC - DIESEL OIL STORAGE TANK
NO SCALE



FOUNDATION SECTION
SCALE 1/4" = 1'-0"

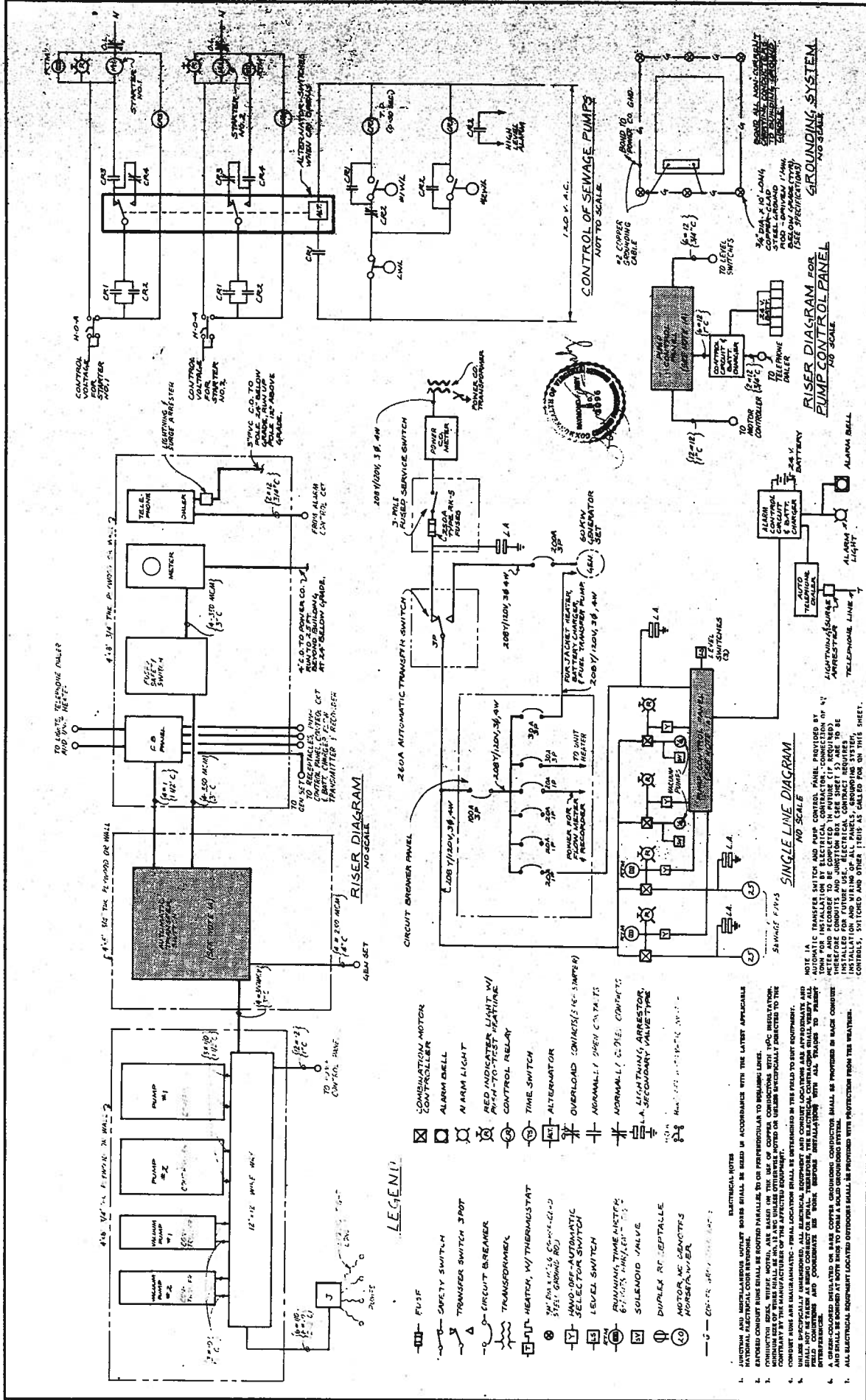


SUBMITTED		SCALE:		PROJECT NUMBER		DATE	
DESIGNED	BY	AS	SHOWN	LECTURE	DATE	LECTURE	DATE
CHECKED	BY	CHECKED	BY	DATE	DATE	DATE	DATE
DATE	BY	DESCRIPTION					

APPROVED: _____ DATE: _____
 TYPED: _____ DATE: _____

JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC.
 1000 WESTERN AVENUE, SUITE 1000, DALLAS, TEXAS 75201

TOWN OF LEESVILLE
 AIRPORT SEWER EXTENSION & COLLECTION SYSTEM
 PUMPING STATION
 FOUNDATION & MECHANICAL



LEGEND

- FUSE
- SAFETY SWITCH
- TRANSFER SWITCH
- CIRCUIT BREAKER
- TRANSFORMER
- HEATER, W/ THERMOSTAT
- 208V/120V 3Ø 4W
- 260A AUTOMATIC TRANSFER SWITCH
- LEVEL SWITCH
- PRIMING TIME SWITCH
- SOLENOID VALVE
- DUPLEX RECEPTACLE
- MOTOR W/ CONTACTS
- COMBINATION MOTOR CONTROLLER
- ALARM BELL
- RED INDICATOR LIGHT W/ PUSH-TO-TEST FEATURE
- CONTROL RELAY
- TIME SWITCH
- ALTERNATOR
- OVERLOAD CONTACTS (N.C. CONTACTS)
- NORMALLY OPEN CONTACTS
- NORMALLY CLOSED CONTACTS
- L.A. LIGHTNING ARRESTOR
- SECONDARY VALVE TYPE

ELECTRICAL NOTES

1. JUNCTION AND MISCELLANEOUS OUTLET BOXES SHALL BE USED IN ACCORDANCE WITH THE LATEST APPLICABLE NATIONAL ELECTRICAL CODE REQUIREMENTS.
2. CONDUIT SHALL BE RIGID UNLESS OTHERWISE SPECIFIED TO BE FLEXIBLE.
3. CONDUIT SHALL BE 1/2" UNLESS OTHERWISE SPECIFIED TO BE 3/4" OR 1" IN DIAMETER.
4. CONDUIT SHALL BE GALVANNELED UNLESS OTHERWISE SPECIFIED TO BE BLACK.
5. UNLESS SPECIFICALLY INDICATED, ALL ELECTRICAL EQUIPMENT AND CONDUIT LOCATIONS ARE APPROXIMATE AND FIELD CONDITIONS MAY VARY. THEREFORE, THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND CONDUIT LOCATIONS BEFORE BEGINNING WORK.
6. ALL ELECTRICAL EQUIPMENT LOCATED OUTDOORS SHALL BE PROVIDED WITH PROTECTION FROM THE WEATHER.

TOWN OF LEANSBORO - AIRPORT SEWER EXTENSION - COLLECTOR & PUMP STATION

SHEET **6** OF **7**

ELECTRICAL DIAGRAMS & CONNECTIONS

JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.

APPROVED: _____ DATE: _____

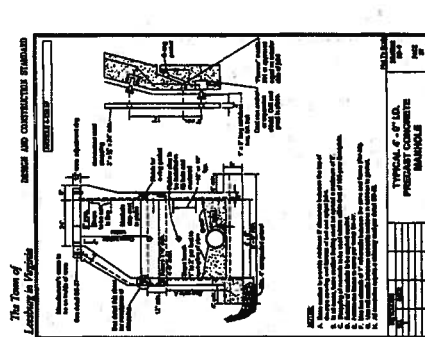
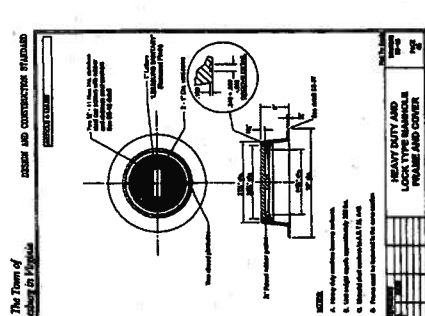
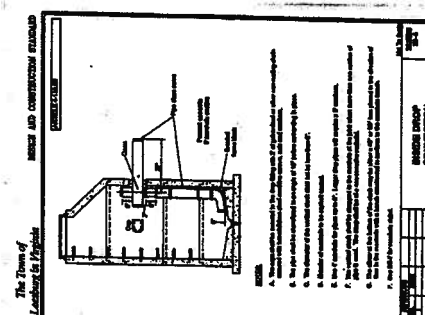
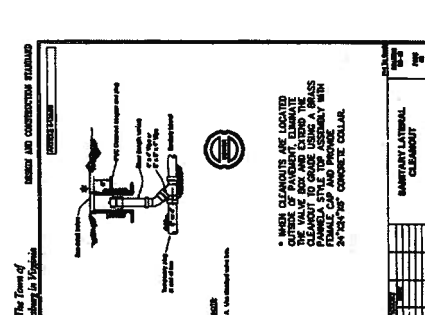
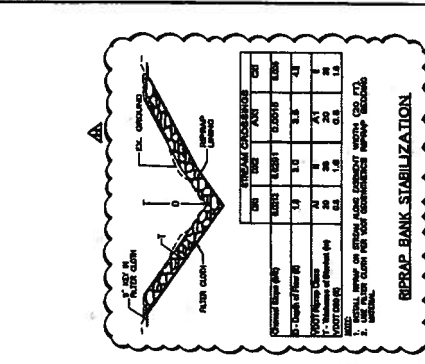
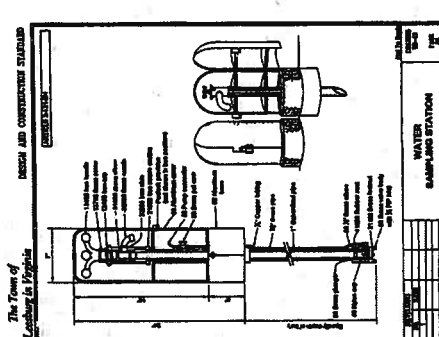
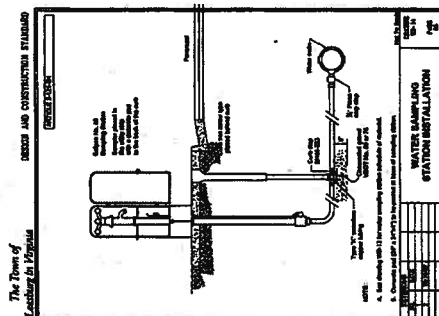
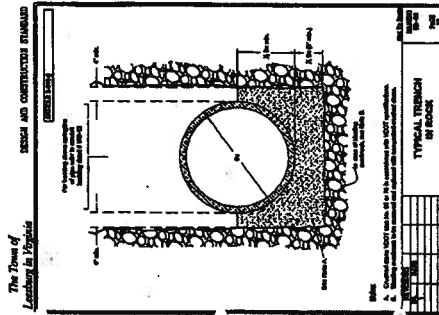
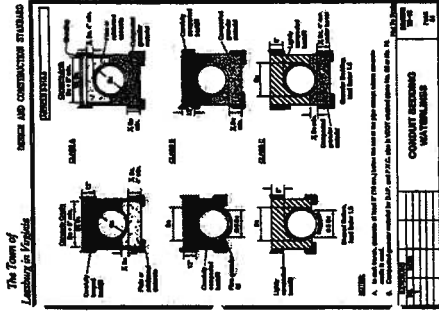
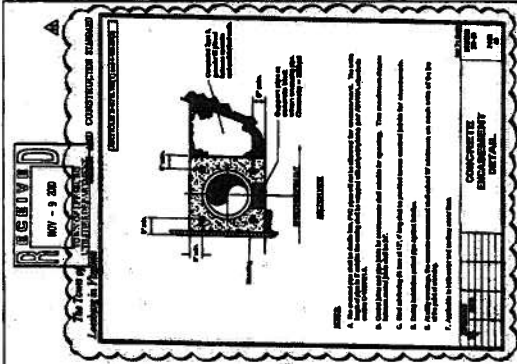
REPROVED: _____ DATE: _____

REV	DATE	DESCRIPTION

SCALE:

REVISION NO.	DATE	DESCRIPTION

Attachment No. 5



CHESTER ENGINEERS

PROJECT NO. 8600400
 DRAWING NO. 00161

Sheet: 38 of 43

**PHILIP A BOLEN MEMORIAL PARK
 WATER AND SANITARY SEWER PLANS
 LOUDOUN COUNTY, VIRGINIA
 ELECTION DISTRICT: CATOCTIN
 UTILITY DETAILS**

NO.	DATE	DESCRIPTION
1	10/10/10	ISSUED FOR PERMITS
2	10/10/10	ISSUED TO O&E FOR INFORMATION AND CONSTRUCTION ONLY
3	10/10/10	ISSUED TO O&E FOR CONSTRUCTION
4	10/10/10	ISSUED TO O&E FOR CONSTRUCTION
5	10/10/10	ISSUED TO O&E FOR CONSTRUCTION
6	10/10/10	ISSUED TO O&E FOR CONSTRUCTION
7	10/10/10	ISSUED TO O&E FOR CONSTRUCTION
8	10/10/10	ISSUED TO O&E FOR CONSTRUCTION
9	10/10/10	ISSUED TO O&E FOR CONSTRUCTION
10	10/10/10	ISSUED TO O&E FOR CONSTRUCTION

DATE: 10/10/10	SCALE: 1/4" = 1'-0"
DRAWN BY: JAC	CHECKED BY: JAC
APP'D BY: JAC	DATE: 10/10/10

BAR = 1" AT PLOT SCALE