

To: All Interested Bidders and Plan Holders

From: Brandon Rountree, Civil Engineer I

RE: 2021 Stormwater On-Call Repair Project, ENG-2020-01
Addendum #3

Date: August 4, 2020

The following items clarify, add to, delete from and/or otherwise change and supersede information previously issued to you in the Bid Documents for the above-referenced project. As such, said items shall be considered part of the contract and receipt of this addendum shall be acknowledged appropriately in the bid package. Please review the following items carefully and adjust your proposal accordingly.

Pre-bid Minutes/Clarifications/Follow-up:

1. **Since the Pre-Bid Conference was not mandatory.** An addendum 2 was sent out stating questions were allowed to be asked up to 8/3/20, 5:00pm.
2. See Attachment 1, pre-bid meeting minutes, which as part of this addendum shall be considered part of the contract.
3. See Attachment 2, MWBE Forms, which as part of this addendum shall be considered part of the contract. These forms are required to be submitted with Bid.
4. See Attachment 3, Sample Construction Plans, two plan sheets are being provided as typical task orders. These specific task orders may or may not be a part of this contract. They are to give the contractor an idea of what projects could be like.
5. **Performance and Payment Bonds** will be not be submitted in the bid package. It will be submitted with every task order.
6. The City will contract with a third party to test compaction when necessary.

Changes/Additions to Bid List and Specifications:

1. See Attachment 4, Change to Bid Form page 1, "Total Bid for equipment and labor:" changed to "Total Bid for 2021 Stormwater Pipe Repair Project:"
2. See Attachment 5, Roadway Standard Drawing for Method of Pipe Installation, is to show NCDOT standards on pipe installation and as a Specification for installing pipe in the project
3. Removing anything extra from the typical 6" of Asphalt, ABC, and soil will be paid for by another line item. Any additional items needing removing, for example concrete, will be paid for removal and installation per the line item in the contract.
4. Wood Fencing should be priced using a typical panel 8' wide by 6' high.
5. O-rings are not typical on these projects and, as such, should not be included when calculating the unit cost for 12" to 36" RCP Class III, IV, or Pipe Removal and Disposal (15" to 36")

6. Where pipe has been removed but not replaced additional material required to backfill will be paid for as Select Fill.”.

7. Edit line item description for 12” to 36” RCP Class III, IV

12” to 36” RCP Class III, IV

Includes pipe as specified, all joint material, complete and installed including dewatering and, cleaning. Dewatering methods do not include bypass pumping. Bypass pumping will need a change order with separate unit pricing. All grubbing, root or stump removal, excavation and embedment stone, are to be included in the contract unit price of the pipe. Any additional stone placed in variance to the construction details as shown will not be approved for payment without prior authorization by the Engineer. All pipe, asphalt and concrete removal & disposal within the same excavation will be incidental to the installation of the pipe. Payment will be for the pipe size per lineal feet installed.

8. Edit line item description for 36” Aluminum CMP – AASHTO M-196, M-197

36” Aluminum CMP – AASHTO M-196, M-197

Includes pipe as specified, complete and installed including dewatering and cleaning. Dewatering methods do not include bypass pumping. Bypass pumping will need a change order with separate unit pricing. All excavation, backfilling and embedment stone, are to be included in the contract unit price of the pipe. Any additional stone placed in variance to the construction details as shown will not be approved for payment without prior authorization by the Engineer. Use the included detail for installation. Payment will be for the pipe size and per lineal feet installed.

9. Add item description to Point Break Repairs,

External Point Repair

Repair a damaged segment of existing pipe, uncover pipe and repair it with a soil-tight repair method. The term "point repair" shall refer to construction required to correct a severe problem at a specified location in a pipe line which is best repaired by excavation. All repairs must be wrapped in filter fabric. Point repairs will be a repair from 3 to 8 linear feet performed at a single location. Carefully protect from damage at all times all existing sewers, water lines, gas lines, sidewalks, curbs, gutters, pavements, electric lines, or other utilities or structures in the vicinity of the work. Payment will be for each repair.

10. Edit line item description to Miscellaneous Concrete,

Miscellaneous Concrete Work

The unit price bid per cubic yard for this item shall include installation of concrete not covered under other items, including but not limited to: excavation; hauling; backfill and compaction; formwork; joint filler; furnishing and placement of concrete.

11. Line Items Catch Basin and Drop Inlet for 4’-10’ depth could include two different sizes when bidding unit prices. Take into consideration that the boxes could be 2’x3’ or 4’x4’ depending on the project.

Any questions regarding this Addendum should be directed to Mr. Brandon Rountree, at telephone 252-329-4474 or email at brountree@greenvillenc.gov.

cc: Lisa Kirby, PE, City Engineer
Lynn Raynor, PE, Civil Engineer II
Kevin Leigh, Asset Manager

Attachment 1

To: Pre-Bid Conference Attendees and Plan holders

From: Brandon Rountree, CE I
City of Greenville Engineering Department

Subject: **2021 Stormwater Pipe Repair Project, Pre-bid Minutes**

Date: August 4, 2020

On Tuesday, July 28, 2020 at 2:00 p.m., a Pre-bid conference for the referenced project was held on Zoom. Those in attendance were as follows:

Lynn Raynor - COG
Lisa Kirby – COG
Brandon Rountree – COG
Denisha Harris – COG
Ferdinand Rouse – COG
Jeremy Whitehurst – Barnhill Contracting
Phil Crumb – Crumb Construction
David Stevick – Trader
Garrius Jones – Lanier Construction
Jimmy Whitley – Jymco
Claudia Pedean – NC Earthworks
Earthmovers
Justin Coward

The following items were discussed during the meeting.

MEETING ITEMS

- 1) Welcome
 - a) Attendance Sheet
 - b) Pre-bid conference is not mandatory.**
 - c) Introductions
- 2) Legal Requirements
 - a) A Bid Bond for 5% of the total base bid will be required and submitted with the bid package.
 - b) Payment/Performance Bonds of **\$200,000.00** will be required for the winning bidder.
 - c) Certificate of Insurance will be required before the contract can be executed.
 - d) MWBE Requirements/submit **with Bids**
 - e) Non-collusion Affidavit/submit **with Bids**
- 3) Project Data
 - a) Description – The scope of services may include, but are not limited to the identified projects below:
Forbes St. from 9th to 8th Street, 111 E. 9th Street, Howell & Greene Street, Howell & Skinner Street, Green Springs Road, S Eastern Street, S Wright Road at Jefferson Drive, Manhattan and Chestnut

Street. All work under this contract will be issued to the Contractor as project work orders and will identify a specific scope of work for each individual project. The project work may include, but is not limited to, repair and/or replacement of the following: storm drain lines, manholes, catch basins, storm water outfalls and any other related storm water structures. Work may involve minor improvements to storm pipe. The Contractor shall be compensated based on line items and the unit prices included in the Contract Documents. The City does not guarantee either a minimum volume of work or a specific volume of work under this Contract.

- b) Contract Award - Lowest responsive responsible bidder. Lowest bidder will be required to provide references and financial records, which the City will check prior to moving forward with award.
 - c) Contract Completion Time is **270 Calendar Days from Notice to Proceed date. Final Date will be on or about June 11th, 2021.***
 - d) Liquidated Damages beyond contract completion date - **\$500/day.***
 - e) Contractor is responsible for any necessary surveying.
 - f) Working Hours: All work must be accomplished between the hours of 8am-5pm. Bidders should bid the project for all work to be completed during these times due to the proximity to residences.
 - g) Traffic Control - reasonable access to residences and businesses must be maintained. Contractor will be required to provide traffic control plan/construction phasing for each Task Order.
 - h) The Contractor must perform in excess of 50% of the contract price with their own forces
 - i) If during the contract there is an item that is not on the original bid form, the Contractor will provide a written estimate for that item or items necessary to complete a Task Order.
 - j) An addendum will be sent out with pre-bid minutes and any requests for information received.
 - k) The contractor will have **10 days** from the date of issue of the task order to start the project task.
 - l) E-Verify Signature
 - m) Bid Date – Tuesday, August 10th, 2020 at 2:00 PM, 1500 Beatty Street, Greenville, NC 27834
- 4) Contact – Brandon Rountree, CE I, 252-329-4474, BRountree@greenvillenc.gov
Ferdinand Rouse, MWBE Coordinator, 252-329-4462, frouse@greenvillenc.gov
- 5) Questions

**City of Greenville/Greenville Utilities Commission
Minority and Women Business Enterprise (MWBE) Program**

**City of Greenville
Construction Guidelines and Affidavits
\$100,000 and above**

These instructions shall be included with each bid solicitation.

City of Greenville/Greenville Utilities Commission Minority and Women Business Enterprise Program

\$100,000 and Construction Guidelines for MWBE Participants

Policy Statement

It is the policy of the City of Greenville and Greenville Utilities Commission to provide minorities and women equal opportunity for participating in all aspects of the City's and Utilities' contracting and procurement programs, including but not limited to, construction projects, supplies and materials purchases, and professional and personal service contracts.

Goals and Good Faith Efforts

Bidders responding to this solicitation shall comply with the MWBE program by making Good Faith Efforts to achieve the following aspiration goals for participation.

	CITY	
	MBE	WBE
Construction This goal includes Construction Manager at Risk.	10%	6%

Bidders shall submit MWBE information with their bids on the forms provided. This information will be subject to verification by the City prior to contract award. **As of July 1, 2009, contractors, subcontractors, suppliers, service providers, or MWBE members of joint ventures intended to satisfy City MWBE goals shall be certified by the NC Office of Historically Underutilized Businesses (NC HUB) only.** Firms qualifying as "WBE" for City's goals must be designated as a "women-owned business" by the HUB Office. Firms qualifying as "MBE" for the City's goals must be certified in one of the other categories (i.e.: Black, Hispanic, Asian American, American Indian, Disabled, or Socially and Economically Disadvantaged). Those firms who are certified as both a "WBE" and "MBE" may only satisfy the "MBE" requirement. **Each goal must be met separately. Exceeding one goal does not satisfy requirements for the other.** A complete database of NC HUB certified firms may be found at <http://www.doa.nc.gov/hub/>. An internal database of firms who have expressed interest to do business with the City and GUC is available at www.greenvillenc.gov. However, the HUB status of these firms must be verified by the HUB database. The City shall accept NCDOT certified firms on federally funded projects only. Please note: A contractor may utilize any firm desired. However, for participation purposes, all MWBE vendors who wish to do business as a minority or female must be certified by NC HUB.

The Bidder shall make good faith efforts to encourage participation of MWBEs prior to submission of bids in order to be considered as a responsive bidder. Bidders are cautioned that even though their submittal indicates they will meet the MWBE goal, they should document their good faith efforts and be prepared to submit this information, if requested.

The MWBE's listed by the Contractor on the **Identification of Minority/Women Business Participation** which are determined by the City to be certified shall perform the work and supply the materials for which they are listed unless the Contractors receive prior authorization from the City to perform the work with other forces or to obtain materials from other sources. If a contractor is proposing to perform all elements of the work with his own forces, he must be prepared to document evidence satisfactory to the owner of similar government contracts where he has self-performed.

Attach to Bid Attach to Bid Attach to Bid Attach to Bid Attach to Bid Attach to Bid Attach to Bid Attach to Bid
The Contractor shall enter into and supply copies of fully executed subcontracts with each MWBE or supply signed Letter(s) of Intent to the Project Manager after award of contract and prior to Notice to Proceed. Any amendments to subcontracts shall be submitted to the Project Manager prior to execution.

Instructions

The Bidder shall provide with the bid the following documentation:

- ☐ Identification of Minority/Women Business Participation
(if participation is zero, please mark zero—Blank forms will be considered nonresponsive)
- ☐ Affidavit A (if subcontracting)

OR

- ☐ Identification of Minority/Women Business Participation
(if participation is zero, please mark zero—Blank forms will be considered nonresponsive)
- ☐ Affidavit B (if self-performing; will need to provide documentation of similar projects in scope, scale and cost)

Within 72 hours or 3 business days after notification of being the apparent low bidder who is subcontracting anything must provide the following information:

- ☐ Affidavit C (if aspirational goals are met or are exceeded)

OR

- ☐ Affidavit D (if aspirational goals are not met)

After award of contract and prior to issuance of notice to proceed:

- ☐ Letter(s) of Intent or Executed Contracts

****With each pay request, the prime contractors will submit the Proof of Payment Certification, listing payments made to MWBE subcontractors.**

*****If a change is needed in MWBE Participation, submit a Request to Change MWBE Participation Form. Good Faith Efforts to substitute with another MWBE contractor must be demonstrated.**

Minimum Compliance Requirements:

All written statements, affidavits, or intentions made by the Bidder shall become a part of the agreement between the Contractor and the City for performance of contracts. Failure to comply with any of these statements, affidavits or intentions or with the minority business guidelines shall constitute a breach of the contract. A finding by the City that any information submitted (either prior to award of the contract or during the performance of the contract) is inaccurate, false, or incomplete, shall also constitute a breach of the contract. Any such breach may result in termination of the contract in accordance with the termination provisions contained in the contract. It shall be solely at the option of the City whether to terminate the contract for breach or not. In determining whether a contractor has made Good Faith Efforts, the CITY will evaluate all efforts made by the Contractor and will determine compliance in regard to quantity, intensity, and results of these efforts.

MBForms 2002-
Revised July 2010
Updated 2019

do hereby certify that on this project, we will use the following minority/women business enterprises as construction subcontractors, vendors, suppliers or providers of professional services.

*MWBE categories: Black, African American (**B**), Hispanic, Latino (**L**), Asian American (**A**) American Indian (**I**), Female (**F**) Socially and Economically Disadvantaged (**S**) Disabled (**D**)

The total value of MBE business contracting will be (\$)_____.

The total value of WBE business contracting will be (\$)_____.

City of Greenville **AFFIDAVIT A – Listing of Good Faith Efforts**

County of _____

(Name of Bidder)

Affidavit of _____

I have made a good faith effort to comply under the following areas checked:

Bidders must earn at least 50 points from the good faith efforts listed for their bid to be considered responsive. (1 NC Administrative Code 30 I.0101)

- ☐ **1 – (10 pts)** Contacted minority businesses that reasonably could have been expected to submit a quote and that were known to the contractor, or available on State or local government maintained lists, at least 10 days before the bid date and notified them of the nature and scope of the work to be performed.
- ☐ **2 --(10 pts)** Made the construction plans, specifications and requirements available for review by prospective minority businesses, or providing these documents to them at least 10 days before the bids are due.
- ☐ **3 – (15 pts)** Broken down or combined elements of work into economically feasible units to facilitate minority participation.
- ☐ **4 – (10 pts)** Worked with minority trade, community, or contractor organizations identified by the Office of Historically Underutilized Businesses and included in the bid documents that provide assistance in recruitment of minority businesses.
- ☐ **5 – (10 pts)** Attended prebid meetings scheduled by the public owner.
- ☐ **6 – (20 pts)** Provided assistance in getting required bonding or insurance or provided alternatives to bonding or insurance for subcontractors.
- ☐ **7 – (15 pts)** Negotiated in good faith with interested minority businesses and did not reject them as unqualified without sound reasons based on their capabilities. Any rejection of a minority business based on lack of qualification should have the reasons documented in writing.
- ☐ **8 – (25 pts)** Provided assistance to an otherwise qualified minority business in need of equipment, loan capital, lines of credit, or joint pay agreements to secure loans, supplies, or letters of credit, including waiving credit that is ordinarily required. Assisted minority businesses in obtaining the same unit pricing with the bidder's suppliers in order to help minority businesses in establishing credit.
- ☐ **9 – (20 pts)** Negotiated joint venture and partnership arrangements with minority businesses in order to increase opportunities for minority business participation on a public construction or repair project when possible.
- ☐ **10 - (20 pts)** Provided quick pay agreements and policies to enable minority contractors and suppliers to meet cash-flow demands.

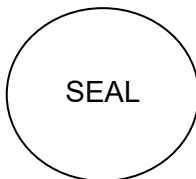
The undersigned, if apparent low bidder, will enter into a formal agreement with the firms listed in the Identification of Minority/Women Business Participation schedule conditional upon scope of contract to be executed with the Owner. Substitution of contractors must be in accordance with GS143-128.2(d) Failure to abide by this statutory provision will constitute a breach of the contract.

The undersigned hereby certifies that he or she has read the terms of the minority/women business commitment and is authorized to bind the bidder to the commitment herein set forth.

Date: _____ Name of Authorized Officer: _____

Signature: _____

Title: _____



State of _____, County of _____

Subscribed and sworn to before me this _____ day of _____ 20____

Notary Public _____

My commission expires _____

**City of Greenville --AFFIDAVIT B-- Intent to Perform
Contract with Own Workforce.**

County of _____

Affidavit of _____
(Name of Bidder)

I hereby certify that it is our intent to perform 100% of the work required for the _____
_____ contract.
(Name of Project)

In making this certification, the Bidder states that the Bidder does not customarily subcontract elements of this type project, and normally performs and has the capability to perform and will perform all elements of the work on this project with his/her own current work forces; and

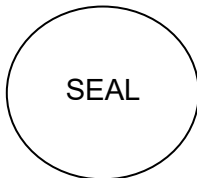
The Bidder agrees to provide any additional information or documentation requested by the owner in support of the above statement.

The undersigned hereby certifies that he or she has read this certification and is authorized to bind the Bidder to the commitments herein contained.

Date: _____ Name of Authorized Officer: _____

Signature: _____

Title: _____



State of _____, County of _____

Subscribed and sworn to before me this _____ day of _____ 20__

Notary Public _____

My commission expires _____

City of Greenville - **AFFIDAVIT C** - Portion of the Work to be Performed by MWBE Firms

County of _____

(Note this form is to be submitted only by the apparent lowest responsible, responsive bidder.)

If the portion of the work to be executed by MWBE businesses as defined in GS143-128.2(g) and the COG/CITY MWBE Plan sec. III is equal to or greater than 16% of the bidders total contract price, then the bidder must complete this affidavit. This affidavit shall be provided by the apparent lowest responsible, responsive bidder within **72 hours** after notification of being low bidder.

Affidavit of _____ I do hereby certify that on the _____
(Name of Bidder)

Project ID# _____ (Project Name) Amount of Bid \$ _____

I will expend a minimum of _____ % of the total dollar amount of the contract with minority business enterprises and a minimum of _____ % of the total dollar amount of the contract with women business enterprises. Minority/women businesses will be employed as construction subcontractors, vendors, suppliers or providers of professional services. Such work will be subcontracted to the following firms listed below. Attach additional sheets if required

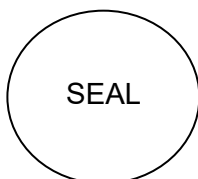
Name and Phone Number	*MWBE Category	Work description	Dollar Value

*Minority categories: Black, African American (**B**), Hispanic or Latino (**L**), Asian American (**A**) American Indian (**I**), Female (**F**) Socially and Economically Disadvantaged (**S**) Disabled (**D**)

Pursuant to GS143-128.2(d), the undersigned will enter into a formal agreement with MWBE Firms for work listed in this schedule conditional upon execution of a contract with the Owner. Failure to fulfill this commitment may constitute a breach of the contract.

The undersigned hereby certifies that he or she has read the terms of this commitment and is authorized to bind the bidder to the commitment herein set forth.

Date: _____ Name of Authorized Officer: _____



Signature: _____

Title: _____

State of _____, County of _____

Subscribed and sworn to before me this _____ day of _____ 20____

Notary Public _____

My commission expires _____

City of Greenville **AFFIDAVIT D – Good Faith Efforts**

County of _____

(Note this form is to be submitted only by the apparent lowest responsible, responsive bidder.)

If the goal of 16% participation by minority/women business **is not** achieved, the Bidder shall provide the following documentation to the Owner of his good faith efforts:

Affidavit of _____ I do hereby certify
that on the _____
(Name of Bidder)

Project ID# _____ (Project Name) _____
Amount of Bid \$ _____

I will expend a minimum of _____% of the total dollar amount of the contract with minority business enterprises and a minimum of _____% of the total dollar amount of the contract with women business enterprises. Minority/women businesses will be employed as construction subcontractors, vendors, suppliers or providers of professional services. Such work will be subcontracted to the following firms listed below. (Attach additional sheets if required)

Name and Phone Number	*MWBE Category	Work description	Dollar Value

*Minority categories: Black, African American (**B**), Hispanic or Latino (**L**), Asian American (**A**) American Indian (**I**), Female (**F**) Socially and Economically Disadvantaged (**S**) Disabled (**D**)

Examples of documentation required to demonstrate the Bidder's good faith efforts to meet the goals set forth in these provisions include, but are not necessarily limited to, the following:

- A. Copies of solicitations for quotes to at least three (3) minority business firms from the source list provided by the State for each subcontract to be let under this contract (if 3 or more firms are shown on the source list). Each solicitation shall contain a specific description of the work to be subcontracted, location where bid documents can be reviewed, representative of the Prime Bidder to contact, and location, date and time when quotes must be received.
- B. Copies of quotes or responses received from each firm responding to the solicitation.
- C. A telephone log of follow-up calls to each firm sent a solicitation.
- D. For subcontracts where a minority business firm is not considered the lowest responsible sub-bidder, copies of quotes received from all firms submitting quotes for that particular subcontract.
 - E. Documentation of any contacts or correspondence to minority business, community, or contractor organizations in an attempt to meet the goal.
- F. Copy of pre-bid roster.
- G. Letter documenting efforts to provide assistance in obtaining required bonding or insurance for minority business.
- H. Letter detailing reasons for rejection of minority business due to lack of qualification.
- I. Letter documenting proposed assistance offered to minority business in need of equipment, loan capital, lines of credit, or joint pay agreements to secure loans, supplies, or letter of credit, including waiving credit that is ordinarily required.

Failure to provide the documentation as listed in these provisions may result in rejection of the bid and award to the

Do not submit with the bid Do not submit with the bid Do not submit with the bid Do not submit with the bid

next lowest responsible and responsive bidder.

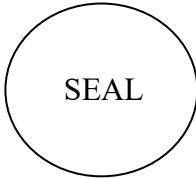
Pursuant to GS143-128.2(d), the undersigned will enter into a formal agreement with MWBE Firms for work listed in this schedule conditional upon execution of a contract with the Owner. Failure to fulfill this commitment may constitute a breach of the contract.

The undersigned hereby certifies that he or she has read the terms of this commitment and is authorized to bind the bidder to the commitment herein set forth.

Date: _____ Name of Authorized Officer: _____

Signature: _____

Title: _____



State of _____, County of _____

Subscribed and sworn to before me this _____ day of _____ 20____

Notary Public _____

My commission expires _____

LETTER OF INTENT MWBE Subcontractor Performance

Please submit this form or executed subcontracts with MWBE firms after award of contract and prior to issuance of notice to proceed.

PROJECT: _____
(Project Name)

TO: _____
(Name of Prime Bidder/Architect)

The undersigned intends to perform work in connection with the above project as a:

____ Minority Business Enterprise ____ Women Business Enterprise

The MWBE status of the undersigned is certified the NC Office of Historically Underutilized Businesses (required). ____ Yes ____ No

The undersigned is prepared to perform the following described work or provide materials or services in connection with the above project at the following dollar amount:

Work/Materials/Service Provided	Dollar Amount of Contract	Projected Start Date	Projected End Date

(Date)

(Address)

(Name & Phone No. of MWBE Firm)

(Name & Title of Authorized Representative of MWBE)

(Signature of Authorized Representative of MWBE)

REQUEST TO CHANGE MWBE PARTICIPATION

(Submit changes only if notified as apparent lowest bidder, continuing through project completion)

Project: _____

Bidder or Prime Contractor: _____

Name & Title of Authorized Representative: _____

Address: _____ **Phone #:** _____

_____ **Email Address:** _____

Total Contract Amount (including approved change orders or amendments): \$ _____

Name of subcontractor: _____

Good or service provided: _____

Proposed Action:

☐ Replace subcontractor

☐ Perform work with own forces

For the above actions, you must provide one of the following reasons (Please check applicable reason):

☐ The listed MBE/WBE, after having had a reasonable opportunity to do so, fails or refuses to execute a written contract.

☐ The listed MBE/WBE is bankrupt or insolvent.

☐ The listed MBE/WBE fails or refuses to perform his/her subcontract or furnish the listed materials.

☐ The work performed by the listed subcontractor is unsatisfactory according to industry standards and is not in accordance with the plans and specifications; or the subcontractor is substantially delaying or disrupting the progress of the work.

If replacing subcontractor:

Name of replacement subcontractor: _____

The MWBE status of the contractor is certified by the NC Office of Historically Underutilized Businesses (required). ☐ Yes ☐ No

Dollar amount of original contract \$ _____

Dollar amount of amended contract \$ _____

Other Proposed Action:

☐ Increase total dollar amount of work

☐ Add additional subcontractor

☐ Decrease total dollar amount of work

☐ Other

Please describe reason for requested action: _____

If adding additional subcontractor:*

The MWBE status of the contractor is certified by the NC Office of Historically Underutilized Businesses (required). ☐ Yes ☐ No

**Please attach Letter of Intent or executed contract document*

Dollar amount of original contract \$ _____

Dollar amount of amended contract \$ _____

Interoffice Use Only:

Approval ☐ Y ☐ N

Date _____

Signature _____

Pay Application No. _____

Purchase Order No. _____

Proof of Payment Certification
MWBE Contractors, Suppliers, Service Providers

Project Name: _____

Prime Contractor: _____

Current Contract Amount (including change orders): \$ _____

Requested Payment Amount for this Period: \$ _____

Is this the final payment? ___Yes ___No

Firm Name	MWBE Category*	Total Amount Paid from this Pay Request	Total Contract Amount (including changes)	Total Amount Remaining

*Minority categories: Black, African American (**B**), Hispanic or Latino (**L**), Asian American (**A**) American Indian (**I**),
Female (**F**) Socially and Economically Disadvantaged (**S**) Disabled (**D**)

Date: _____

Certified By: _____

Name

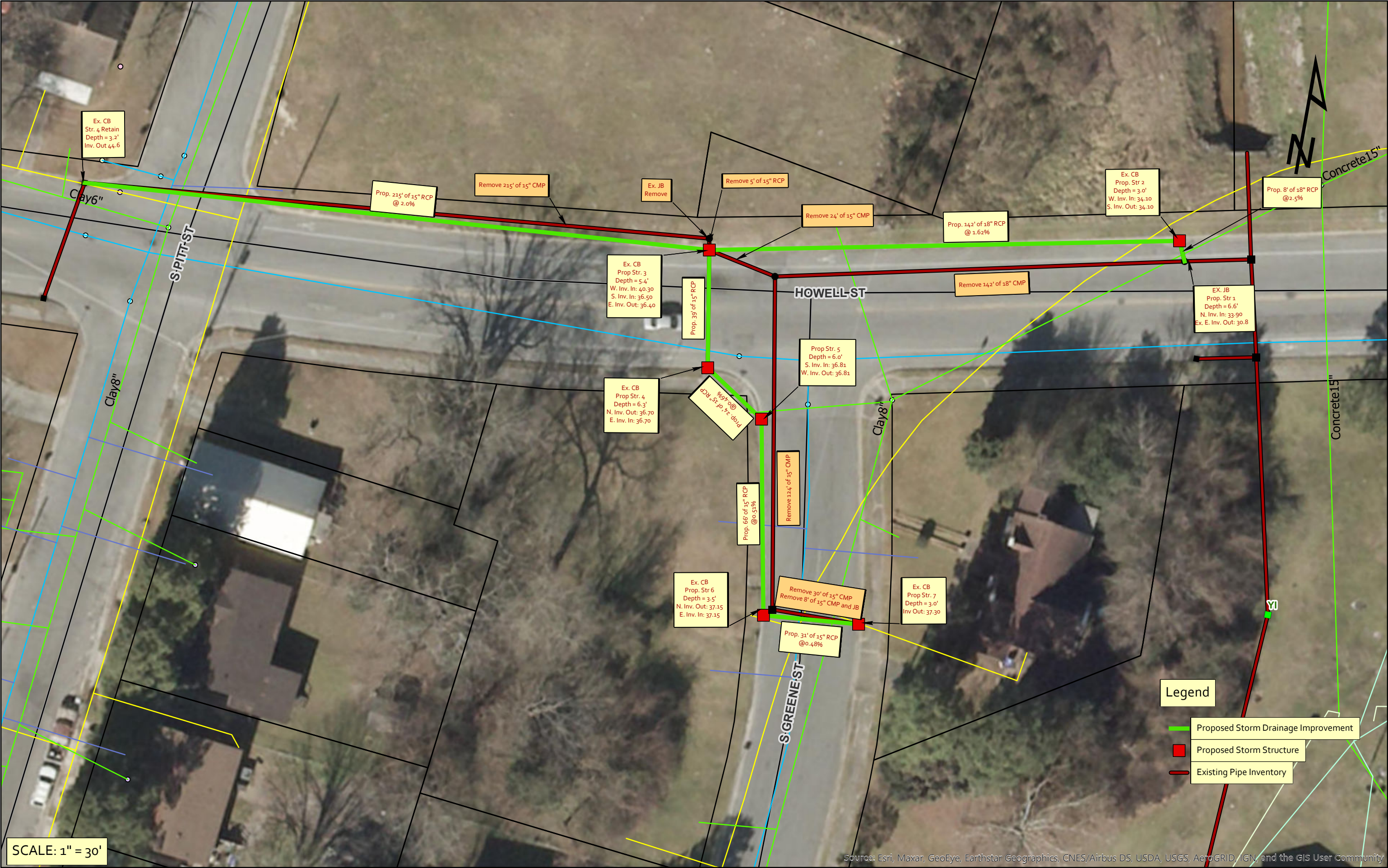
Title

Signature

GREENE SPRINGS RD. PIPE REPLACEMENT PROJECT



HOWELL ST. & S. GREENE ST - PIPE REPLACEMENT PROJECT



City of Greenville Engineering Department Bid Request Form

2021 Stormwater Pipe Repair Project

Scope of Work:

The scope of services may include, but are not limited to the identified projects below: Forbes St. from 9th to 8th Street, 111 E. 9th Street, Howell & Greene Street, Howell & Skinner Street, Green Springs Road, S Eastern Street, S Wright Road at Jefferson Drive, Manhattan and Chestnut Street. All work under this contract will be issued to the Contractor as project work orders and will identify a specific scope of work for each individual project. The project work may include, but is not limited to, repair and/or replacement of the following: storm drain lines, manholes, catch basins, storm water outfalls and any other related storm water structures. Work may involve minor improvements to storm pipe. The Contractor shall be compensated based on line items and the unit prices included in the Contract Documents. The City does not guarantee either a minimum volume of work or a specific volume of work under this Contract.

Special Conditions: All work will be performed between the hours of 8:00 AM to 5:00 PM and will be performed either in City rights-of-way or a drainage easement.

Bid submittal deadline Monday, August 10th, 2020 @ 2:00PM

Contractor Name and Address:

Firm Owner: _____ **Date:** _____

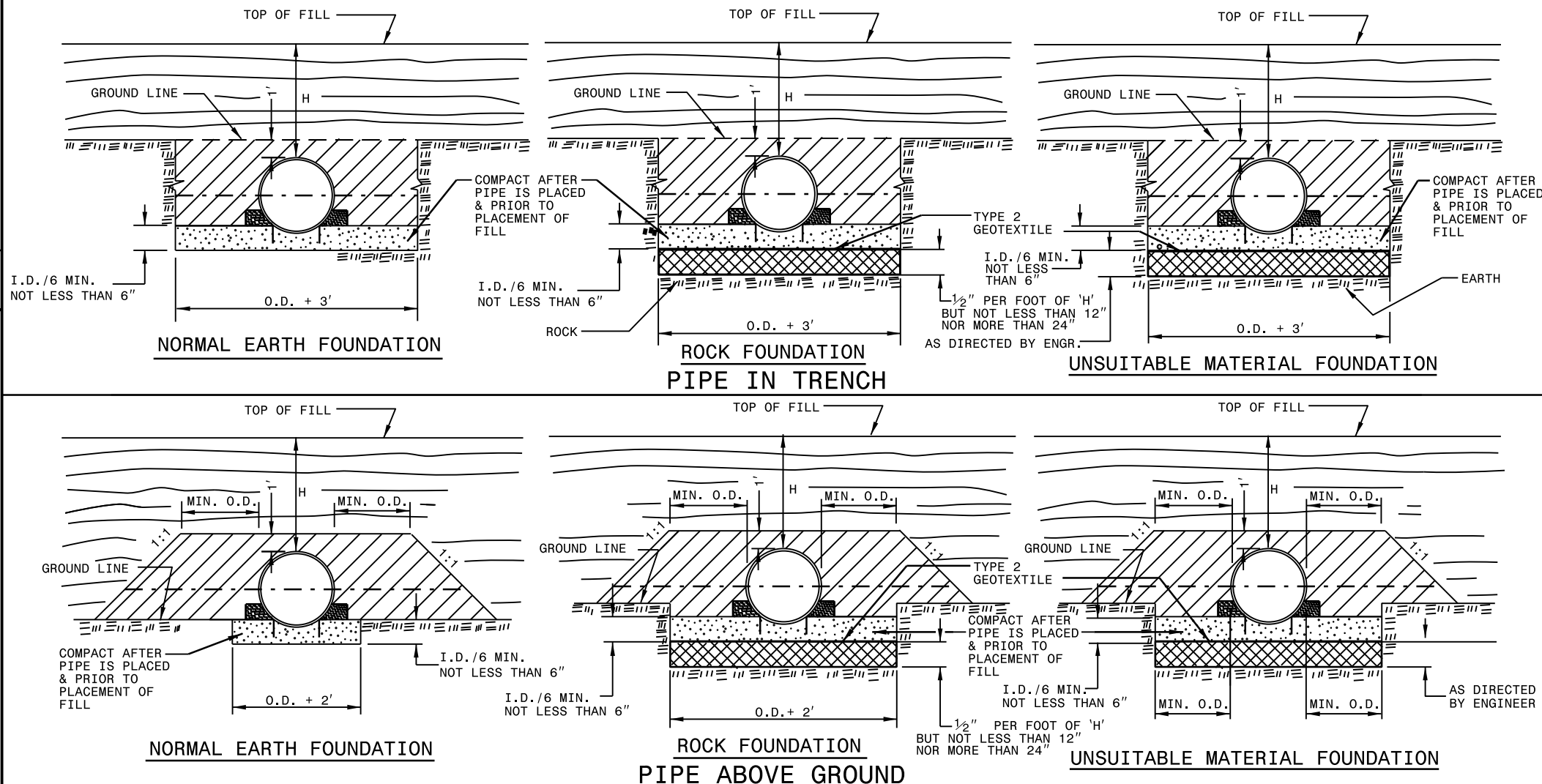
Total Bid for 2021 Stormwater Pipe Repair Project: _____

Bid submitted by: _____ **Signature:** _____

Notes:

1. Please attach breakdown of bid from bid package including all necessary forms
2. Bid will be considered valid for a period of 60 days after submittal

1-18



GENERAL NOTES:

I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.

O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.

H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.

LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

--- SPRINGLINE OF PIPE

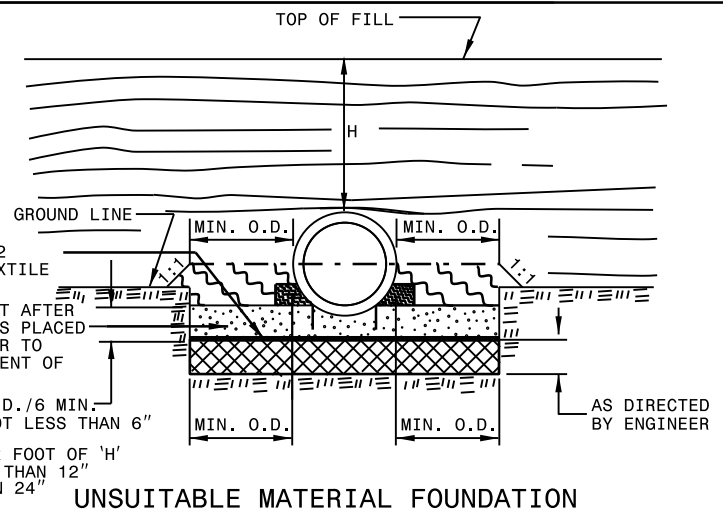
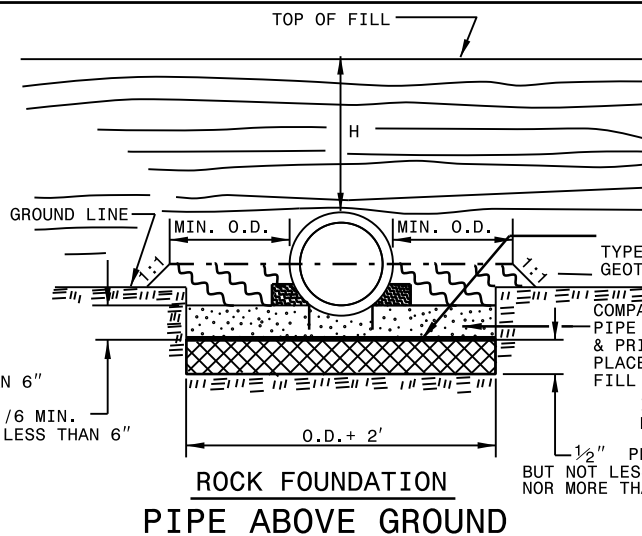
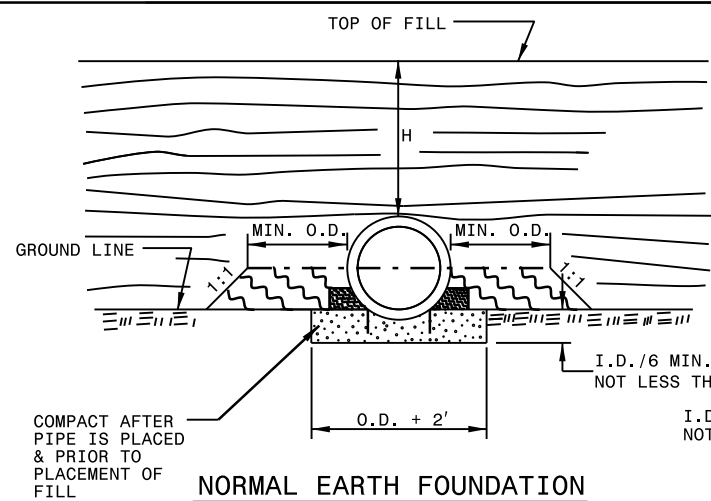
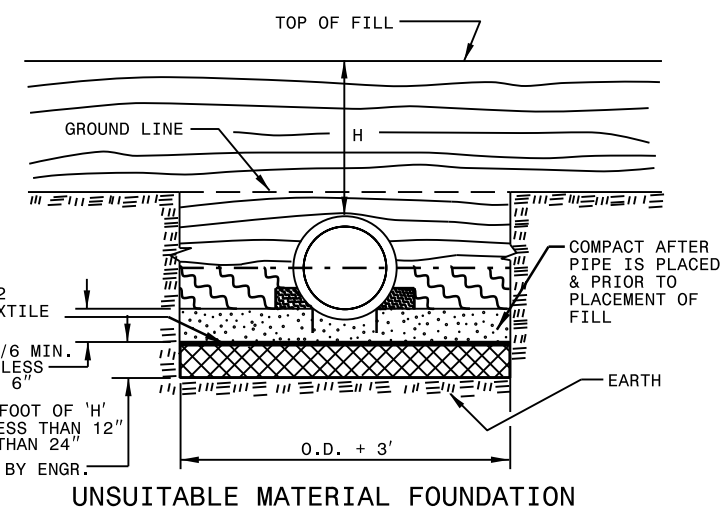
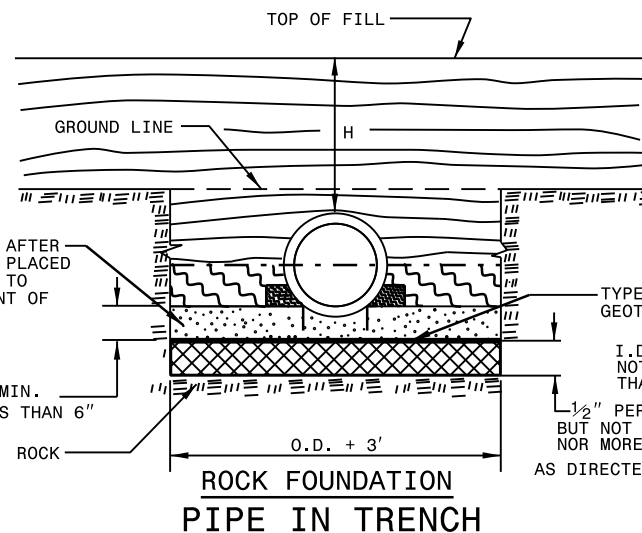
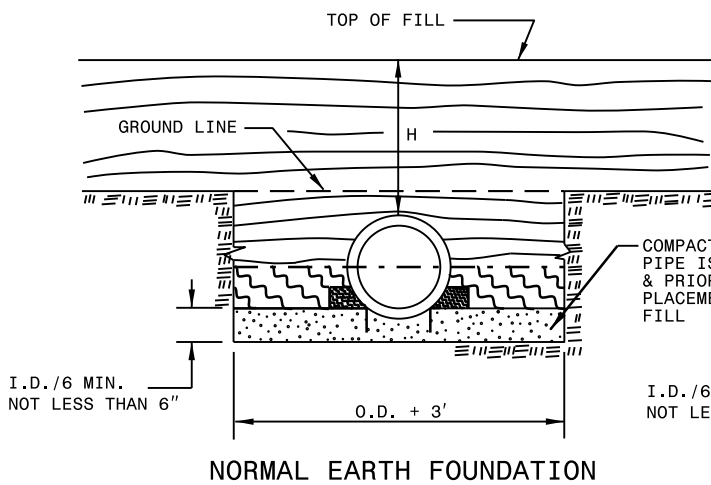
SELECT BACKFILL MATERIAL CLASS III OR CLASS II, TYPE 1 ABOVE AND BELOW SPRINGLINE.

APPROVED SUITABLE LOCAL MATERIAL.

UNDISTURBED EARTH MATERIAL

SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE 2 GEOTEXTILE AS DIRECTED BY THE ENGINEER.

1-18



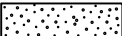
GENERAL NOTES:

I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.

O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.

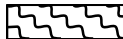
H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

 TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.

 LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

--- SPRINGLINE OF PIPE

 SELECT BACKFILL MATERIAL CLASS III OR CLASS II, BELOW SPRINGLINE.

 APPROVED SUITABLE LOCAL MATERIAL ABOVE SPRINGLINE.

 UNDISTURBED EARTH MATERIAL

 SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE 2 GEOTEXTILE AS DIRECTED BY THE ENGINEER.

FLEXIBLE PIPE

Round Corrugated Steel Pipe

2 2/3 x 1/2 corrugation **

Diameter (inches)	Minimum cover (inches)	(Ga)	Maximum Height of Cover (feet)				
			16	14	12	10	8
12	12	204	256				
15	12	162	204				
18	12	135	169	239			
21	12	115	145	204			
24	12	100	126	178			
30	12	79	100	142			
36	12	65	83	117	152		
42	12	55	70	100	130	160	
48	12	48	61	87	113	139	
54	12		54	77	100	123	
60	12			69	90	111	
66	12				81	100	
72	12				74	91	
78	12					81	
84	12					69	

Round Corrugated Aluminum Pipe

2 2/3 x 1/2 corrugation **

Diameter (inches)	Minimum cover (inches)	(Ga)	Maximum Height of Cover (feet)				
			16	14	12	10	8
12	12	123	155	218	281	344	
15	12	98	123	174	224	275	
18	12	81	102	144	187	228	
21	12	69	87	123	160	195	
24	12	60	76	108	139	171	
27	12		67	95	123	151	
30	12		60	85	111	136	
36	12		50	71	92	113	
42	12			60	78	96	
48	12			52	68	84	
54	12			46	50	74	
60	12				50	62	
66	12					51	
72	12					41	

** FOR DIFFERENT CORRUGATIONS AND ARCH PIPES REFER TO ROADWAY DESIGN MANUAL OR MANUFACTURERS SPECIFICATION.

REFER TO THE FOLLOWING FOR PIPE SPECIFICATIONS

CSP - AASHTO M36
CAAP - AASHTO M196
HDPE - AASHTO M294
PVC - ASTM F949 or AASHTO M304

NOTES: FILL HEIGHTS SHOWN WERE CALCULATED USING AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

1' MINIMUM COVER FOR ALL SIDE DRAIN PIPE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS

HDPE - * (Minimum fill) 2' for pipe diameters $\geq 12''$ and $\leq 60''$
* (Maximum fill) 20' for pipe diameters $\leq 24''$
17' for pipe diameters $\geq 30''$ and $\leq 60''$

PVC - * (Minimum fill) 2' for pipe diameters $\geq 12''$ and $\leq 36''$
* (Maximum fill) 30' for pipe diameters $\geq 12''$ and $\leq 36''$

* FILL HEIGHT IS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PAVEMENT STRUCTURE

RIGID PIPE

RCP - * (Minimum fill) 1' for Class IV & CLASS V
2' for Class III & Class II

* (Maximum fill) 10' - Class II pipe
20' - Class III pipe
30' - Class IV pipe
40' - Class V pipe

(For fills > 40' & < 80' use LRFD Direct Design Method)

* FILL HEIGHT IS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PAVEMENT STRUCTURE

REFER TO THE FOLLOWING FOR PIPE SPECIFICATIONS

RCP - AASHTO M170

NOTES: FILL HEIGHTS SHOWN WERE CALCULATED USING AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

1' MINIMUM COVER FOR ALL SIDE DRAIN PIPE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS