



CITY OF MORGANTON NORTH CAROLINA

January 20, 2022

Dear Contractor,

Please find the **Public Safety Shooting Range Upgrades** project at the following link:
<https://www.morgantonnc.gov/rfps>

This project is being let as an informal bid. Please review the information and call if you have any questions. The project involves the removal and disposal of the existing wooden barrier wall, and trees and shrubbery of area and installation of a new soil berm and concrete barrier wall. Also installation of drainage pipping, catch basins for new drainage system. Resurfacing of existing asphalt pad with crack sealing and asphalt overlay. Please review the plans and bid proposal which provide all of the specific details and information on the project. A vicinity map has been provided for your convenience and reference.

A pre-bid meeting is scheduled for **9:00 A.M. on Tuesday, February 8, 2022**, at 271 Water Filter Plant Rd. Morganton, NC 28655.

Bids must be received prior to **2:00 P.M. on Tuesday February 22, 2022.** The submissions shall be submitted prior to that date, at any time during our normal business hours of 8:00 A.M. to 5:00 P.M. Monday thru Friday to the Development and Design Services Department. The bids are informal and therefore may be submitted by either paperless format, e-mail to City Engineer, Mario Sclarandis P.E. msclarandis@morgantonnc.gov ; mail, or delivered in person to the Development and Design Services Department on the second floor of City Hall, Attn.: Mario Sclarandis P. E., City Engineer. Mail **PO Box 3448 Morganton, NC 28680**, Delivery **305 East Union St., Suite A100 Morganton, NC 28655.**

All bids must be accompanied by references of previous similar projects, and the applicable Affidavit A or B of the Disadvantaged Business Enterprise (DBE / MBE / WBE) forms included in the bid packet. Failure to include these items with the bid proposal may be deemed as non-responsive. No bids shall be received after the above-stated time. Bids will be open at City Hall in Council Chambers at the date and time stated above.

Three originals of the bid documents shall be delivered to the City by the awarded Contractor for inclusion in and execution of the Contract Documents.

If you plan to bid and did not receive your plans directly from the City of Morganton, please be sure that you are on our bidders list. Otherwise, you may fail to get updates or addenda.

The bid listed on the Proposal Sheet shall remain valid for a period of up to 90 days after the bid submittal deadline listed until Notice to Proceed can be given.

Please review the information and call me at (828) 438-5263 if you have any questions.
Sincerely,

Mario Sclarandis

Mario Sclarandis, P.E.
City Engineer

City of Morganton

Public Safety Shooting Range Upgrades

City Officials

Ronnie Thompson, Mayor
Wendy Cato, Mayor Pro-Tem
Chris Hawkins, Councilman
Butch McSwain, Councilman
Chris Jernigan, Councilman

Sally W. Sandy, City Manager

Prepared by
City of Morganton
Mario Sclarandis, P.E.



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Notice to Bidders

Bids can be submitted at any time during our normal business hours of 8:00 A.M. to 5:00 P.M. Monday thru Friday to the Development and Design Services Department. The bids are informal and therefore may be submitted by either paperless format, e-mail to City Engineer, Mario Sclarandis P.E. msclarandis@morgantonnc.gov ; mail, or delivered in person to the Development and Design Services Department on the second floor of City Hall, Attn.: Mario Sclarandis P. E., City Engineer. Mail **PO Box 3448 Morganton, NC 28680**, Delivery **305 East Union St., Suite A100 Morganton, NC 28655**. All bids must be accompanied by references of previous similar projects, and the applicable Affidavit A or B of the Disadvantaged Business Enterprise (DBE / MBE / WBE) forms included in the bid packet. Failure to include these items with the bid proposal may be deemed as non-responsive. No bids shall be received after the above-stated time. Bids will be open at City Hall in Council Chambers at the date and time stated.

A pre-bid meeting is scheduled for **9:00 A.M. on Tuesday, February 8, 2022**, at 271 Water Filter Plant Rd. Morganton, NC 28655.

Bids will be received up until **2:00 P.M. on Tuesday February 22, 2022**. No bids shall be received after the above-stated time.

Bids must be on standard forms furnished in the contract documents and marked appropriately as **Public Safety Shooting Range Upgrades**

Contract documents may be examined at the City Hall, Development and Design Services Department, 305 East Union Street, Suite A100, Morganton, NC 28655.

Each bid must be accompanied by a bid security of 5% of the bid amount. Security may be in the form of cash, certified check or cashier's check made payable to the City of Morganton or a bid bond issued by an insurance company authorized to do business in North Carolina. The deposit shall be retained if the successful bidder fails to execute the contract within (10) days after the award of contract or fails to give satisfactory surety as required herein.

The bidder shall comply with minority business requirements as outlined in G.S. 143-128 by:

1. Providing the minority businesses that will be utilized on the project with corresponding total dollar value of the bid and affidavit listing good faith efforts or,
2. An affidavit indicating that work will be self-performed.

Failure to comply with these requirements may be grounds for rejection of bid.

The project involves the removal and disposal of the existing wooden barrier wall, and trees and shrubbery of area and installation of a new soil berm and concrete barrier wall. Also installation of drainage pipping, catch basins for new drainage system. Resurfacing of existing asphalt pad with crack sealing and asphalt overlay. Please review the plans and bid proposal which provide all of the specific details and information on the project. A vicinity map has been provided for your convenience and reference.

Please direct all questions to Mario Sclarandis P.E. City Engineer (828) 438-5263 or msclarandis@morgantonnc.gov If you use email please use the subject line of project name so that your email is reviewed in a timely manner. It would be best to follow up with a phone call to insure receipt of your email or other correspondence. If addenda are made at any time throughout the process, they will be posted on the City website under the project title for review.

The City reserves the right to reject any or all bids or to accept the bid that appears to be in the best interest of the City, or provided by law. No bid may be withdrawn for a period of 90 days after the scheduled bid opening.

SUMMATION OF DETAILED INFORMATION TO BIDDERS

<u>Owner:</u>	The owner of the work to be done under these plans and specifications is the City of Morganton, represented by the Mayor, City Council and City Manager.
<u>Project:</u>	Public Safety Shooting Range Upgrades
<u>Bid Security:</u>	Cash, certified check, or cashier's check in the amount of 5% base bid or an acceptable bid bond in the amount of 5% of base bid in accordance with G.S. 143-129.
<u>Contractor:</u>	The organization or legal representative to which the contract is awarded for the proposed work.
<u>City:</u>	The City of Morganton or authorized representative representing the owner.
<u>Insurance Required:</u>	As specified by the contract documents.
<u>Time of Completion:</u>	The total time allowed for this project shall be 150 calendar days from Notice to Proceed.
<u>Liquidated Damages:</u>	\$200 per calendar day.

Contractor Qualifications

The successful bidder shall have successfully completed projects comparable in scope and nature to this project. Contractor shall have experience in or show that subcontractor has substantial experience in the following: Grading, storm drain utility construction, asphalt paving, and roadway construction.

References for at least three similar projects shall be submitted with the Contractor's bid or within 24 hours of the bid opening.

The Contractor shall submit a list of all subcontractors at bid time. All subcontractors must be approved by the City of Morganton.

SPECIFICATIONS

Specification per plans and details documents.

BID PROPOSAL FORM
City of Morganton, North Carolina

Project Name: Public Safety Shooting Range Upgrades
Project Location: 271 Water Filter Plant Rd. Morganton, NC 28655
Project Number: N/A

To: The City of Morganton, North Carolina

In compliance with the Bids dated _____, the undersigned bidder hereby offers, for the amount stated below, to furnish all labor, materials, tools, equipment, apparatus, facilities, transportation and permits for the construction of the Project referenced above (or that portion of the Work for the Project assigned to the bidder) described above and hereby agrees to enter into an agreement for the construction of the Project, if accepted by the City Council of the City of Morganton in the amount of:

Total amount of Base Bid: \$_____.

The above amount is stated in figures only and is the total amount bid for the entire contract work including all applicable taxes. The undersigned bidder agrees that, if awarded the contract, it will enter into the Agreement providing for the construction of the Work and will commence the Work within the time specified in the written Notice to Proceed and that all work will be completed within the Contract Time of 150 calendar days.

Further, the undersigned acknowledges receipt of the following addenda:

(addenda dated _____)

(addenda dated _____)

(addenda dated _____)

The bidder should fill in the words "not applicable" for any of the lines left blank above. To be considered, this bid proposal must include a bid bond in the amount and form specified in the Instructions to Bidders.

By submitting a bid, the bidder acknowledges that it has carefully reviewed the bid documents, the General Conditions, any supplemental conditions, all Drawings and Specifications and that it carefully inspected the Project site for any conditions that may affect the Work required by the Contract Documents.

The bidder also acknowledges that Minority Business Enterprise requirements apply to this Project and that the bidder will make a good faith effort at meeting the Minority Business Enterprise goals established by the City of Morganton.

Respectfully submitted,

(Firm Name)

By: _____

Title: _____

License #: _____

Address: _____

Itemized Proposal Sheet
Public Safety Shooting Range Upgrades

Contractor Name _____

Item #	Sewer Line Items	Quantity	Unit Price	Amount Bid
1	Soil Berm and Concrete Barrier Wall	LUMP SUM		
2	Railroad Ties	LUMP SUM		
3	15-Inch HDPE	140 LF		
4	18-Inch HDPE	60 LF		
5	Outlet Protection (Flared End Section)	1 EA		
6	3'X3'X3' Catch Basin with Frame and Grate	3 EA		
7	Wash Stone	150 TONS		
8	Incidental Stone	60 TONS		
9	Rip Rap Stone	15 TONS		
10	Crack Sealing of Cracks	LUMP SUM		
11	Asphalt Surface S9.5B with Tack Coat	235 TONS		
12	Painted Pavement Markings	1,340 LF		
13	Contingency 10%			

Sub Total of Items # 1-13 \$ _____

Please enter on sheet P-1

See the following pages for the Item Descriptions.

Note:

- A. Bid bond and Mobilization cost shall be included under the entire bid as there will not be a separate line item.
- B. Unless otherwise noted, the bid price quoted by the Contractor shall include all labor, materials, and equipment necessary to complete installation of the items listed above in the proposal. Any work not covered by a bid item will be considered incidental to this contract; therefore, there will be no compensation for such work.
- C. Certificate of Liability Insurance required.
- D. Owner reserves the right to reduce scope of project at its discretion to meet budget limits.

Items Descriptions

1. Soil Berm and Concrete Barrier Wall - Bid price per lump sum for material and labor for installation of soil berm and concrete wall, per plans and specifications and details. To be included under this line item is the removal and disposal of the existing wooden barrier wall, trees and shrubbery to prepare for new dirt berm, place and compact dirt that is located on site to build berm, and hydro seed berm areas. Plastic barrier sheeting shall be placed between block wall and dirt to prevent staining.
2. Railroad Ties - Bid price per lump sum for material and labor for installation of railroad ties around the entire facing of concrete walls that surrounds soil berm. Railroad ties shall be No. 1 grade ties that has been creosote treated. Railroad ties shall be laid with overlapping joints and fastened to the concrete wall with fastener wall anchors and to the ground and each other with galvanized steel rods, or rebar in a particular manner that will secure the wall and prevent any movement.
3. 15-Inch HDPE - Bid price per linear foot for material and installation of 15-Inch HDPE double wall storm pipe, per plans and specifications and details.
4. 18-Inch HDPE - Bid price per linear foot for material and installation of 18-Inch HDPE double wall storm pipe, per plans and specifications and details.
5. Outlet Protection (Flared End Section) - Bid price per lump sum for material and installation of outlet protection (Flared End Section), per plans and specifications and details.
6. 3'X3'X3' Catch Basin with Frame and Grate – Bid price per each for material and installation of catch basin with frame and grate, per plans and specifications and details. Also to be included under this item is the removal and disposal of the existing storm pipe under driveway pavement.
7. Washed Stone - Bid price per ton for the placement of washed stone for bedding of pipe, catch basin. Wash stone shall be ¼ to 1½ inch graded stone, pre plans and Specifications and Details. Wash Stone amounts to be placed on project and will be directed by utility inspector. **Stone tickets shall be collected for the correct payment of this item.**
8. Incidental Stone - Bid price per ton for the placement of incidental stone for, restoring road, and any disturbed areas as needed. Incidental Stone amount to be placed on project will be directed by utility inspector. **Incidental Stone tickets shall be collected for the correct payment of this item.**
9. Rip Rap Stone - Bid price per ton for the placement of rip rap stone for maintaining and restoring reshape ditch. Rip rap stone sizes shall be decided in the field by City Engineer. Stone amount to be placed on project will be directed by utility inspector. **Stone tickets shall be collected for the correct payment of this item.**
10. Crack Sealing of Cracks - Bid price per lump sum for the removal of grass and debris from crack areas in the asphalt pad and sealing back with Crafcoc sealer or approved equal, to prepare for surface course.
11. Asphalt Surface S9.5B with Tack Coat – Bid price per ton of S9.5B asphalt with tack coat for the resurfacing of asphalt pad, per paving specification. **Tickets will be collected for payment of item.**
12. Painted Pavement Markings (4-Inch White) – Bid price linear foot to installed painted pavement markings per specifications and details.
13. Contingency 10% of Total Bid Amount– Bid contingency 10% of total bid amount.

SPECIFICATIONS

PAVING AND CONCRETE SPECIFICATION

- 1. Materials**
- 2. Schedule**
- 3. Traffic Maintenance**
- 4. Temperature Limitations**
- 5. Spreading and Finishing**
- 6. Compaction**
- 7. Application**
- 8. Base and Prime Coat**
- 9. Manholes and Valve Boxes**
- 10. Catch Basin Protections**
- 11. Clean Up**
- 12. Joints**
- 13. Water Meter Boxes**
- 14. Milling Bituminous Pavement**
- 15. Manhole Riser Ring Specifications**
- 16. Base Course Specification**
- 17. Concrete Sidewalk Specification**
- 18. Adjustment Riser Details**
- 19. Details for pavement markings**

1. Materials

Material for this Contract is commonly known as Asphalt Binder and Asphalt Surface

All roadways shall be improved with a surface course to the required width of the roadway.

Plant mixed asphalt shall conform in all aspects to the latest NCDOT Standard Specification. To include design limits, asphalt cement content, and temperature range. A prime coat shall be applied when the base has been in place for seven (7) days or more. The compacted surface shall not be less than one and on-half (1 ½) inched thick.

City Engineer shall be notified prior to use of recycled asphalt.

Materials and workmanship are subject to twelve (12) months guarantee after acceptance of completed work.

2. Schedule

A paving schedule shall be submitted to the Engineer one (1) week in advance of beginning in order that emergency organizations may be notified and detours arranged if necessary. Work shall be so scheduled as to avoid extremely late working hours in attempts to complete specified phase of work.

3. Traffic Maintenance

The Contractor shall handle vehicular traffic in the area of work. Signs and flagmen shall be provided during working hours; and signs and lights required for safety reasons shall be maintained by Contractor. Methods and signs must comply with all NCDOT Standards and Regulations.

4. Temperature Limitations

Surface Course materials being placed in a layer less than 1" thick shall not be placed at an air temperature less than 50 degrees F. Surface course materials being placed at 1" or greater thickness shall not be placed at a temperature less than 40 degrees F.

5. Spreadings and Finishing

The bituminous mixtures shall be spread by an approved self-contained powered propelled paver. The bituminous mixture shall be placed so as to provide required thickness after compaction. The paver shall be equipped with an activated screen strike off assembly which is designed to be preheated, and shall have a sliding shoe attachment which will form a slope on the edge of the mixture which will prevent raveling of the edge when the mixture is compacted.

Pavers shall be operated at forward speeds consistent with satisfactory laying of the mixture. Unevenness of texture, tearing, or shaving occurring during the pavement operation will be considered unsatisfactory and unacceptable work. Throwing back excess material will not be permitted. Pavers shall be equipped with a joint mating device so as to provide a smooth joint after compaction.

6. Compaction

The latest NCDOT approved mix shall be compacted to a 95% density. Rollers used for compaction shall be equipped with wetting and cleaning devices. Freshly laid asphalt shall first be compacted with tandem steel wheel rollers with maximum weight of ten (10) tons. No more than two (2) passes shall be made over the fresh asphalt with the steel rollers. The asphalt shall then be rolled with a pneumatic tire roller until required density and smoothness of surface is achieved. A final rolling with a steel wheel roller may be required to achieve a smooth riding surface.

7. Application

Streets shall receive a compacted layer of the latest NCDOT approved mix of the thickness specified on the schedule of streets. Tolerances to be as specified in Section 610, Standard Specifications, Jan 1, 1991 Edition.

8. Base and Prime Coat

All surfaces receiving an asphalt coat shall be thoroughly cleaned. The street shall then receive a NC Highway approved tack coat (RS-1H) as described in Section 605 of NCDOT Standard Specifications, January 1, 1990 Edition in an amount of from (.02 to .08 gallons per square yard), sufficient to thoroughly bond existing surface and new bituminous concrete surface. Tack coat will not be applied during foggy, wet or threatening weather. Tack coat will not appear as a separate bid item. Payment for tack coat shall be included in the contract unit prices for SF9.5A mix as stated in the proposal.

9. Manholes and Valve Boxes

Valve boxes and manholes are to be raised by the Contractor. Manholes are to be raised with brick and mortar. The raised portion of the manholes is to be sealed inside and outside with mortar. Valve box extensions are to be used to raise valve boxes and are to be Opelika 490A or approved equal.

After any valve box or manhole is raised, it must be guarded with a flashing barricade until the asphalt has been installed. All barricades are to be supplied and maintained by the Contractor.

10. Catch Basin Protection

All catch basins and grates shall be protected with covers to prevent any bituminous materials from falling into these basins; it is the responsibility of the Contractor to clean these basins before rains. If allowed to remain, City personnel will remove it at a cost to the Contractor in the amount of the cost of labor and supervision to remove same.

11. Clean Up

Removal of excess bituminous materials shall not lag out of proportion with progress of resurfacing. Where pedestrian traffic is encountered, excess materials shall be immediately removed.

12. Joints

Placing of surface course shall be as nearly continuous as possible. The roller shall pass over the unprotected end of the freshly laid mixture only when the laying of this course is discontinued for such length of time as to permit the mixture to become chilled or unworkable.

In all cases, including the formation of the joints as hereinafter specified, provision shall be made for proper bond with new surface mixture by cutting and trimming back the joint in order to expose an unsealed or granular surface for the full specified depth of the course.

At the end of the day's work on the surface mixture, joints shall be formed by laying and rolling against boards of the thickness of the compacted mixture placed across the entire width of the pavement, or by such other methods as may be approved by the Engineer. When the laying of surface mixture is resumed, the exposed edge of the joint shall be painted with a thin coat of hot asphalt cement or asphalt cement thinned with naphtha, and the fresh mixture shall be raked against the joint, thoroughly tamped and rolled.

13. Water Meter Boxes

Water meter boxes may be raised by placing bricks under the meter boxes.

14. Milling Bituminous Pavement

- Description

The work covered by this section consists of milling bituminous pavement at locations, depths, widths, and typical sections indicated in the plans and special provisions or as directed by the Engineer.

The work also includes removing, transporting, and disposing of the milled material; and cleaning the milled pavement surface.

The milled material shall become the property of the Contractor. All milled material shall be disposed of properly by State Standards by the Contractor in areas provided by him which are outside the right of way, except where the milled material is used in the work.

- Equipment

Equipment shall include a self-propelled unit capable of removing the existing bituminous pavement to the depths, widths, and typical sections shown in the plans. The equipment shall have been designed and built exclusively for pavement milling operations and shall have sufficient power, traction, and stability to accurately maintain depth of cut and slope. The milling machine shall be equipped with a grade control system which will automatically control the longitudinal profile and cross slope of the milled surface by the use of one or more skid sensors moving along the pavement surface. The machine shall be capable of leaving a uniform surface suitable for handling traffic without excessive damage to the underlying pavement structure. The milling machine and other loading equipment shall be capable of loading milled material to be used in other parts of the work without excessive segregation. Additional equipment necessary to satisfactorily remove the pavement in the area of manholes, water valves, curb and gutter, and other obstructions shall be provided.

The milling equipment shall be equipment with a means of effectively limiting the amount of dust escaping from the removal operation in accordance with local, State, and Federal air pollution control laws and regulations.

- Construction Requirements

The existing pavement shall be milled in a manner, which will restore the pavement surface to a uniform longitudinal profile and cross section at the locations and in accordance with typical sections shown in the plans.

Where indicated in the plans or Project Special Provisions, removal shall be to a specified depth and shall produce a specified cross slope.

The Contractor shall mill intersections and other irregular areas as indicated in the plans, Project Special Provisions, or as directed by the Engineer.

The Contractor may elect to make multiple cuts to achieve the required depth of cut or cross slope required by the plans.

The longitudinal profile of the milled surface shall be established by a mobile string line on the side of the cut nearest the centerline of the road or as directed by the Engineer. The cross slope of the milled surface shall be established by an automatic cross slope control mechanism or by a second skid sensing device located on the opposite edge of the cut. The Engineer may waive the requirement for automatic grade and cross slope controls where conditions warrant.

The milling equipment shall be operated in such a manner as to prevent damage to the underlying pavement structure, utilities, drainage facilities, curb and gutter, paved surfaces outside the milled area, and any other appurtenances. The milled pavement surface shall be reasonably smooth and free of excessive clarification marks, gouges, ridges, continuous grooves, or other damage as determined by the Engineer. Any leveling or patching required as a result of negligence by the Contractor shall be repaired with hot bituminous plant mix at no cost to the owner and in a manner acceptable to the Engineer. The Contractor shall coordinate the adjustment of manholes, meter boxes, and valve boxes with the milling operation.

The Engineer may require remilling of any area exhibiting defects such as laminations or defects. If the defects are determined to be the result of the Contractor's negligence, the measurement from the remilling, as specified in Article 612-5, will not be made. If however, the Engineer directs the remilling of an area which is not due to the Contractor's negligence, measurement of the remilled area will be made under provisions of Article 612-5.

The milled pavement surface shall be thoroughly cleaned of all loose aggregate particles, dust, and other objectionable material by the use of power brooms, power blowers, power vacuums, or other means. Disposal or wasting of oversize pieces of pavement or loose aggregate material will not be permitted within the right of way.

The pavement removal operation shall be conducted to effectively minimize the amount of dust being emitted. The operation shall be planned and conducted so that it is safe for persons and property adjacent to the work including the traveling public. No milling shall be allowed outside milling surface at any time during project.

Contractor shall be responsible for repair or replacement of valve boxes, manholes, and catch basins or other roadway appurtenances damaged during the milling operation. Level of repair or replacement shall be acceptable to City Standards per the judgment of the City Engineer or his representative.

- Tolerance

Removal of the existing pavement shall be to the depth required by the plans or project special provisions. The Engineer may vary the depth of milling by not more than one inch. In the event the directed depth of milling per cut is altered by the Engineer more than one inch, the Contractor may request an adjustment in unit price under the provisions of Article 104-3. In administering the provisions of Article 104-3 the owner will give no consideration to value given to reclaimed asphalt pavement unless that value has been included in the unit bid price for recycled plant mix.

The provisions of Article 104-3 will not apply to the item of “Incidental Milling”.

- Method of Measurement

a. General

The quantity of milled bituminous pavement to be paid for will be the actual number of square yards of pavement surface which has been milled in accordance with the requirements of this section. In measuring this quantity, the length will be the actual length milled, measured along the pavement surface. The width will be the width required by the plans or directed by the Engineer, measured along the pavement surface.

b. Milling Bituminous Pavement

For each and every square yard that the Engineer directs to be milled; including that requiring any additional equipment necessary to remove pavement in the area of manholes, water valves, curb and gutter, and other obstructions; measured as provided in Subarticle 612-5(A); compensation will be made as provided in Articles 612-4 and 612-6.

Where the Engineer directs multiple cuts to achieve the final depth, measurement will be made for each cut. Where the Contractor elects to make multiple cuts to achieve the final depth, no additional measurement will be made.

c. Incidental Milling

Where the Contractor is required by the plans to mill irregular areas and intersections or is directed to remill areas whose length is less than 100 feet, measurement will be made as provided in Subarticle 612-5(A) of NCDOT Standard Specifications for each cut he is directed to perform. Where the Contractor elects to make multiple cuts to achieve the final depth, no additional measurement will be made.

15. Manhole Riser Ring Specifications

- Scope & Application

This item of work includes all labor and material necessary to fabricate adjustable, manhole adjustment rings at specified locations where a manhole is to be raised to the surface of the existing pavement or to a proposed pavement surface.

This work applies where shown on the plans in the specifications or as directed by the Engineer.

- Description

Riser rings shall consist of domestic A-36 steel $\frac{3}{4}$ " thickness steel inner ring, and domestic A-36 $\frac{1}{2}$ " thickness steel outer ring. The riser system shall be anchored to the manhole frame to prevent any movement from traffic loads with three (3) $\frac{1}{2}$ " #5 cone head set screws or bolts. The adjustment device shall be fabricated from stainless steel, have a positive lock and be in line with the lower bearing bar. It shall be capable of adjustment positive lock and be in line with the lower bearing bar. It shall be capable of adjustment $\pm \frac{3}{8}$ " from nominal. The manhole adjustment ring shall fit within the existing casting without interference and the manhole lid shall have bearing on all of the surface of the inner ring to prevent rocking from occurring. The lid shall be removed without binding. The inner and outer rings shall be securely welded to prevent any differential movement between the inner and outer rings under traffic loads and shall be fabricated to $\pm \frac{1}{16}$ " concentricity. The outer riser ring shall have an inside diameter no greater than $\frac{3}{16}$ " larger than the outside diameter of the manhole lid. All material shall be bituminous asphalt coated.

All welding shall be performed in accordance with AWS D1.5 Bridge Code by certified welders.

Supplier of manhole risers shall take field measurements to determine condition of frames and measure and label each riser for its specific location.

New product may require demonstration prior to approval for use in the City of Morganton system.

16. Base Course for Asphalt Paving

Immediately after approval of the sub-grade by the Engineer, a course aggregate base course meeting the requirements of these Specifications shall be placed.

The contractor shall provide adequate and suitable equipment of such capacity and character as will insure the consolidation of the base. The equipment shall be of approved design and shall be maintained in good mechanical condition.

It is the intent of these specifications that the full thickness of base course be placed in successive layers as early as practicable, as work progresses. The next working day after the first layer of base course is placed and compacted; the second layer shall be placed thereon and compacted. Subsequent layers shall follow on the next working day until the full thickness of base course is laid and compacted.

In handling and placing the base course material, care shall be taken to prevent segregation. Each layer of base course shall be of such thickness that it can be compacted to the proper density. No layer shall have a compacted thickness greater than 8 inches.

Each layer of base course shall be immediately and continually machined with motor graders maintaining the required section until it has been thoroughly compacted to 95 percent of the density determined by AASHTO Test Method T-99.

The base course shall be maintained in a moist condition during the compaction operation.

When completed, the base course shall be smooth, hard, dense, unyielding, and well bonded. A broom drag constructed to have at least four transverse rows of broom shall be used in connection with the final finishing and conditioning of the surface of the course aggregate base course if deemed necessary by the engineer.

17. Concrete Sidewalk Specifications

- a. Comprehensive strength of the concrete shall be 4000 P.S.I.
- b. Broom finish on the concrete with expansion joints every 50 feet and construction joints every 5 feet and all areas where it adjoins other concrete (curb and gutter or other).
- c. In non-traffic areas depth shall be 4 inches and areas subjected to traffic shall be 8 inches thick. Expansion joint material shall be placed around all objects, signs, poles, etc. that fall within the sidewalk.
- d. Contractor shall remove forms, backfill around sidewalk, reseed and mulch all disturbed areas. All grading, filling, grassing, etc., shall be considered incidental and no additional payment will be allowed for these items.
- e. All concrete shall be properly formed, poured and finished in a workmanlike manner by experienced concrete finishers/workers. Refer to ACI Document: "Slabs on Grade for Quality Standards of Concrete Workmanship"
- f. Barricades shall be used to protect the public from construction areas.
- g. Traffic control signing shall be in accordance with NCDOT Standards.
- h. Handicapped ramps shall be installed as located on the plans in accordance with 2006 NCDOT Section 848. Handicap Ramps shall be denoted on the plans with the symbol HR (Handicap Ramp).

VICINITY MAP



1 inch = 500 feet

271 WATER FILTER PLANT RD.
MORGANTON, NC 28655

Winston Creek

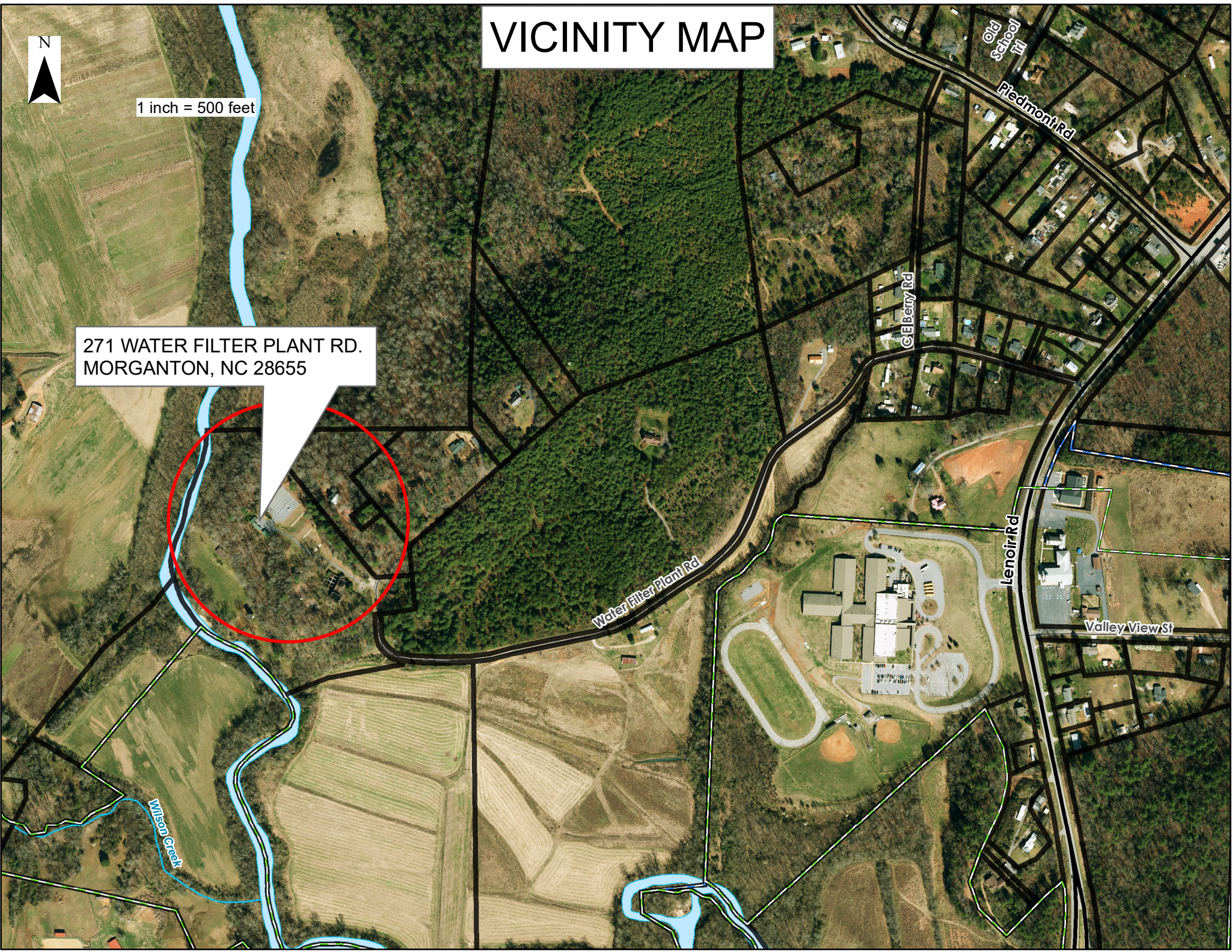
Water Filter Plant Rd

CE Berry Rd

Old School Rd
Piedmont Rd

Lenoir Rd

Valley View St



Identification of HUB Certified/ Minority Business Participation

I, _____,
 (Name of Bidder)

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

Firm Name, Address and Phone #	Work Type	*Minority Category	**HUB Certified (Y/N)

*Minority categories: Black, African American (**B**), Hispanic (**H**), Asian American (**A**) American Indian (**I**), Female (**F**) Socially and Economically Disadvantaged (**D**)

**** HUB Certification with the state HUB Office required to be counted toward state participation goals.**

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

State of North Carolina 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.

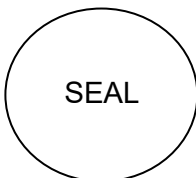
The undersigned, if apparent low bidder, will enter into a formal agreement with the firms listed in the Identification of Minority Business Participation schedule conditional upon scope of contract to be executed with the Owner. Substitution of contractors must be in accordance with GS143-128.2(d) Failure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

State of North Carolina --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

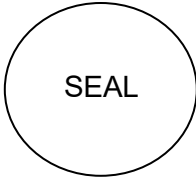
The Bidder agrees to provide any additional information or documentation requested by the owner in support of the above statement. The Bidder agrees to make a Good Faith Effort to utilize minority suppliers where possible.

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 _____

State of North Carolina - AFFIDAVIT C - Portion of the Work to be Performed by HUB Certified/Minority Businesses

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 HUB certified/minority businesses as defined in GS143-128.2(g) and 128.4(a),(b),(e) is equal to or greater than 10% 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 Name)
 Project ID# _____ Amount of Bid \$ _____

I will expend a minimum of _____% of the total dollar amount of the contract with minority business enterprises. Minority 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	*Minority Category	**HUB Certified Y/N	Work Description	Dollar Value

*Minority categories: Black, African American (**B**), Hispanic (**H**), Asian American (**A**) American Indian (**I**), Female (**F**) Socially and Economically Disadvantaged (**D**)

**** HUB Certification with the state HUB Office required to be counted toward state participation goals.**

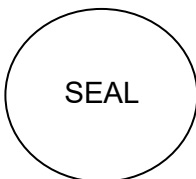
Pursuant to GS143-128.2(d), the undersigned will enter into a formal agreement with Minority Firms for work listed in this schedule conditional upon execution of a contract with the Owner. Failure to fulfill this commitment may constitute a breach of the contract.

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 _____

State of North Carolina 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 10% participation by HUB Certified/ minority 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 HUB certified/ minority business enterprises. Minority 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	*Minority Category	**HUB Certified Y/N	Work Description	Dollar Value

*Minority categories: Black, African American (**B**), Hispanic (**H**), Asian American (**A**) American Indian (**I**), Female (**F**) Socially and Economically Disadvantaged (**D**)

**** HUB Certification with the state HUB Office required to be counted toward state participation goals.**

Examples of documentation that may be 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 next lowest responsible and responsive bidder.

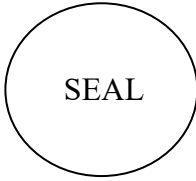
Pursuant to GS143-128.2(d), the undersigned will enter into a formal agreement with Minority Firms for work listed in this schedule conditional upon execution of a contract with the Owner. Failure to fulfill this commitment may constitute a breach of the contract.

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 _____

STATE OF _____

AFFIDAVIT

COUNTY OF _____

NOW COMES Affiant, first being sworn, deposes and says as follows

1. _____ (“the Contractor/Supplier”) has submitted a bid for contract or desired to enter into a contract with the City of Morganton, and I am the _____ of the Contractor/Supplier.

2. As part of my duties and responsibilities pursuant to said bid and/or contract, I attest that the Contractor/Supplier is aware of and in compliance with the requirements of E-Verify, Article 2 of Chapter 64 of the North Carolina General Statutes, to include (mark which applies):

___ After hiring an employee to work in the United States the Contractor/Supplier verifies the work authorization of said employee through E-Verify and retains the record of the verification of work authorization while the employee is employed and for one year thereafter; or

___ The Contractor/Supplier employs less than twenty-five (25) employees in the State of North Carolina.

3. As part of my duties and responsibilities pursuant to said bid and/or contract, I attest that to the best of the Contractor’s/Supplier’s knowledge any subcontractors employed as a part of this bid and/or contract are in compliance with the requirements of E-Verify, Article 2 of Chapter 64 of the North Carolina General Statutes, to include (mark which applies):

___ After hiring an employee to work in the United States the subcontractor verifies the work authorization of said employee through E-Verify and retains the record of the verification of work authorization while the employee is employed and for one year thereafter; or

___ Employs less than twenty-five (25) employees in the State of North Carolina.

Pursuant to North Carolina General Statute § 143-133.3(c)(2), contracts solely for the purchase of apparatus, supplies, materials, and equipment are exempt from the E-Verify provision.

This the _____ day of _____, 20____.

AFFIANT:

Business Name_____

Address_____

Signature_____

Printed Name_____

Title_____

Sworn to and subscribed before me, this the _____ day of _____, 20____.

[OFFICIAL SEAL]

_____, Notary Public

My Commission Expires: _____



RFP Number (if applicable): _____

Name of Vendor or Bidder: _____

**IRAN DIVESTMENT ACT CERTIFICATION
REQUIRED BY N.C.G.S. 143C-6A-5(a)**

As of the date listed below, the vendor or bidder listed above is not listed on the Final Divestment List created by the State Treasurer pursuant to N.C.G.S. 143-6A-4.

The undersigned hereby certifies that he or she is authorized by the vendor or bidder listed above to make the foregoing statement.

Signature

Date

Printed Name

Title

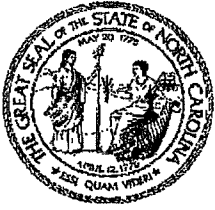
Notes to persons signing this form:

N.C.G.S. 143C-6A-5(a) requires this certification for bids or contracts with the State of North Carolina, a North Carolina local government, or any other political subdivision of the State of North Carolina. The certification is required at the following times:

- When the bid is submitted
- When a contract is entered into (if the certification was not already made when the vendor made its bid)
- When a contract is renewed or assigned

N.C.G.S. 143C-6A-5(b) requires that contractors with the State, a North Carolina local government, or any other political subdivision of the State of North Carolina must not utilize any subcontractor found on the State Treasurer's Final Divestment List.

The State Treasurer's Final Divestment List can be found on the State Treasurer's website at the address www.nctreasurer.com/iran and will be updated every 180 days.



NORTH CAROLINA
DEPARTMENT OF STATE TREASURER
STATE AND LOCAL GOVERNMENT FINANCE DIVISION
AND THE LOCAL GOVERNMENT COMMISSION

JANET COWELL
TREASURER

GREGORY C. GASKINS
DEPUTY TREASURER

Memorandum # 2016-10

TO: All Local Governments, Public Authorities and Their Independent Auditors
FROM: Sharon Edmundson, Director, Fiscal Management Section
SUBJECT: Iran Divestment Act Notice for Local Governments in North Carolina
DATE: February 17, 2016

The North Carolina Department of State Treasurer is providing this letter to Local Government Units to explain new contracting and procurement compliance obligations created by the Iran Divestment Act of 2015 (N.C.G.S. 143C-6A-1 to 6A-9).^{*} Local Government Units should be aware that effective February 26, 2016, this law imposes new obligations on each new bid process, each new contract, and each renewal or assignment of an existing contract. The specific requirements are as follows:

- 1. Local Government Units must obtain a one-page mandatory certification under the Act.** (See sample "Contract Certification" form below for details.)
- 2. Local Government Units may not enter into contracts with any entity or individual found on the State Treasurer's Iran Final Divestment List.** This list will be posted on the Department of State Treasurer's website on February 26, 2016 and will be updated every 180 days. (See "Contract Restrictions" below for details.)

Background

The Iran Divestment Act's requirements applicable to Local Government Units** will become effective on February 26, 2016, at the time the State Treasurer publishes the first list of prohibited companies and individuals (a "Final Divestment List") under the Act.

^{*} The Iran Divestment Act of 2015 can be found online at:

<http://www.ncleg.net/Sessions/2015/Bills/Senate/PDF/S455v5.pdf>

^{**} The Act's requirements use the term "State agency." G.S. 143C-6A-3(7) provides that in the act, the term "State agency" includes not only State departments, boards, and commissions, but also "any political subdivision of the State" such as a Local Government Unit.

Final Divestment List

The Department of State Treasurer develops the Final Divestment List using data from a research vendor, U.S. federal sanctions lists, and other credible information available to the public. It consists of any individual or company, including parent entities and majority owned subsidiaries, that:

- Provided goods or services of \$20,000,000 or more within any 12-month period in the energy sector of Iran during the preceding five years;
- Extended \$20,000,000 or more in credit, under certain circumstances, to another individual or company that will use the credit to provide goods or services in the energy sector in Iran. (G.S. 143C-6A-3(4).)

The Department of State Treasurer will update the Final Divestment List at least every 180 days. The list will be published on the State Treasurer's website at www.nctreasurer.com/Iran and periodically circulated to Local Government Units.

Requirement 1: Contract Certification

For new procurements and new, renewed, or assigned contracts on or after February 26, 2016, each Local Government Unit must obtain a simple certification from each bidder or vendor. The bidder or vendor must affirm that it is not listed on the State Treasurer's Final Divestment List found at www.nctreasurer.com/Iran as of the date of signature. The certification is due at the time a bid is submitted or the time a contract is entered into, renewed, or assigned. (G.S. 143C-6A-5(a).)

We have attached on the next page a short form that can be used for this certification, but Local Government Units are free to instead use their own form or put the required certification in the text of a contract or purchase order. Each Local Government Unit shall maintain its own records demonstrating these certifications.

Requirement 2: Restriction on Contracting

Individuals or companies on the Final Divestment List are ineligible to contract or subcontract with Local Government Units. (G.S. 143C-6A-6(a).) Any existing contracts with these Iran-linked persons will be allowed to expire in accordance with the contract's terms. (G.S. 143C-6A-6(c).)

Contracts valued at less than \$1,000.00 are exempt from this restriction. (G.S. 143C-6A-7(a).) In addition, a Local Government Unit may contract with a listed individual or company if it makes a good-faith determination that (1) the commodities or services are necessary to perform its functions and (2) that, absent such an exemption, it would be unable to obtain those commodities or services. (G.S. 143C-6A-7(c).) Local Government Units shall enter such exemptions into the procurement record.

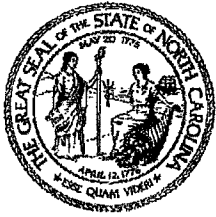
Memorandum #2016-10
Iran Divestment Act
February 17, 2016
Page 3

The Act provides that vendors to Local Government Units may not utilize any subcontractor found on the State Treasurer's Final Divestment List. (N.C.G.S. 143C-6A-5(b).) It is each vendor's responsibility to monitor its compliance with this restriction.

Next Steps

The Department of State Treasurer anticipates distributing the first Final Divestment List on February 26, 2016. Once the List has been distributed, all Local Government Units should meet the contract certification requirements.

If you have questions about the Department of State Treasurer's Iran Divestment Policy, please contact Sharon Edmundson at Sharon.Edmundson@nctreasurer.com or 919-814-4289.



JANET COWELL
TREASURER

NORTH CAROLINA
DEPARTMENT OF STATE TREASURER
INVESTMENT MANAGEMENT DIVISION

FINAL DIVESTMENT LIST – IRAN

As of 26 February 2016

Exercising the duties required under N.C.G.S. 143C-6A-4, the State Treasurer has determined that the following persons appear to be engaged in “investment activities in Iran,” as that term is defined in the North Carolina Iran Divestment Act of 2015, based on federal sanctions lists and other publicly available credible information.

The State Treasurer and North Carolina Retirement Systems may not invest funds with, and must divest any existing investment with, the persons listed below. N.C.G.S. 143C-6A-4.

Persons listed below are ineligible to contract with the State of North Carolina or any political subdivision of the State. N.C.G.S. 143C-6A-6. Any existing contracts with persons listed below shall be allowed to expire in accordance with the terms of the contract. N.C.G.S. 143C-6A-6(c).

The Department of State Treasurer is not responsible for compliance with the Iran Divestment Act by other agencies or political subdivisions of the State of North Carolina. The Department of State Treasurer’s responsibilities are solely focused on implementing G.S. 143C-6A-4, which relates to the Department’s investments, and implementing the Act as it relates to the identification of companies that appear to be engaged in investment activities in Iran.

Companies listed as a result of their own apparent investment activities in Iran

Listed Company	Country	Ticker
Chennai Petroleum Corporation Ltd	India	BSE:500110
China CSSC Holdings Limited	China	SHSE:600150
China Oilfield Services Ltd.	China	SEHK:2883
China Petroleum & Chemical Corp.	China	SEHK:386
China Shipbuilding Industry Company Limited	China	SHSE:601989
Daelim Industrial Co., Ltd.	South Korea	KOSE:A000210
Indian Oil Corporation Limited	India	BSE:530965
ITOCHU Corporation	Japan	TSE:8001
JNK Heaters Co., Ltd.	South Korea	KOSDAQ:A126880
Odfjell SE	Norway	OB:ODF
Oil and Natural Gas Corp. Ltd.	India	NSEI:ONGC
PetroChina Co. Ltd.	China	SEHK:857
PTT Global Chemical Public Company Limited	Thailand	SET:PTTGC
Sinopec Kantons Holdings Limited	Hong Kong	SEHK:934
The Siam Cement Public Company Limited	Thailand	SET:SCC
Welcron Kangwon Co., Ltd.	South Korea	KOSDAQ:A114190

The Act indicates that “persons” subject to the Act include not only companies listed as a result of their own apparent investment activities in Iran, as listed above, but also any “parent entity owning more than 20%” or

any "majority-owned subunit or subsidiary" of that company. N.C.G.S. 143C-6A-3(6) and 6A-4. Subsidiaries and parents of the companies listed above are found in the separate Iran Parent and Subsidiary Guidance list. This list can be found at the address www.nctreasurer.com/iran on the State Treasurer's website.

FORM OF BID BOND

KNOW ALL MEN BY THESE PRESENTS THAT _____

_____ as principal, and _____, as surety, who is duly licensed to act as surety in North Carolina, are held and firmly bound unto the City of Morganton through _____ as obligee, in the penal sum of _____ DOLLARS, lawful money of the United States of America, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

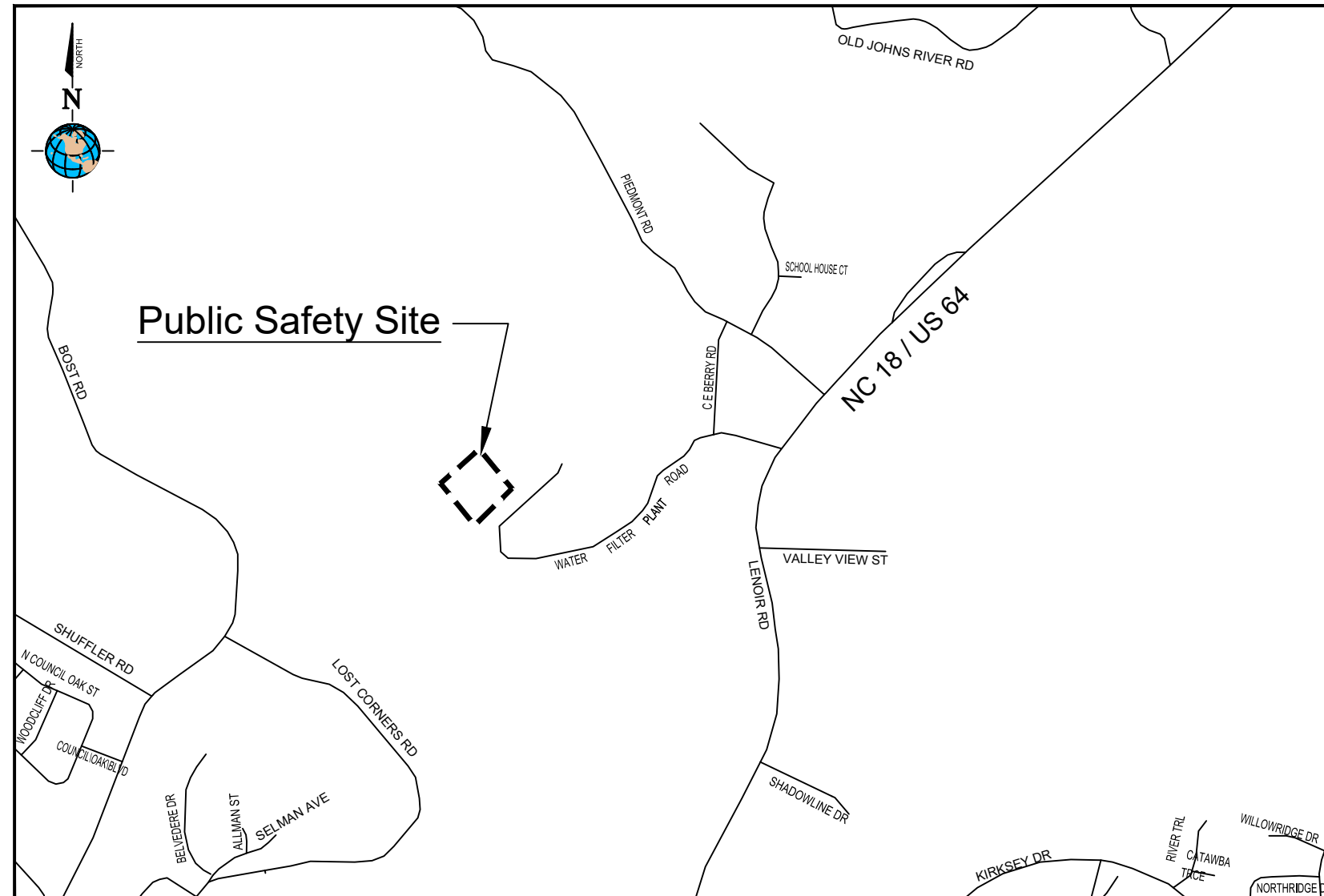
Signed, sealed and dated this ____ day of _____, 20____.

WHEREAS, the said principal is herewith submitting proposal for and the principal desires to file this bid bond in lieu of making the cash deposit as required by G.S. 143-129.

NOW, THEREFORE, THE CONDITION OF THE ABOVE OBLIGATION is such, that if the principal shall be awarded the contract for which the bid is submitted and shall execute the contract and give bond for the faithful performance thereof within ten (10) days after the award of same to the principal, then this obligation shall be null and void; but if the principal fails to so execute such contract and give performance bond as required by G.S. 143-129, the surety shall, upon demand, forthwith pay to the obligee the amount set forth in the first paragraph hereof. Provided further, that the bid may be withdrawn as provided by G.S. 143-129.1.

_____(SEAL)
_____(SEAL)
_____(SEAL)
_____(SEAL)
_____(SEAL)

Public Safety Shooting Range Upgrades



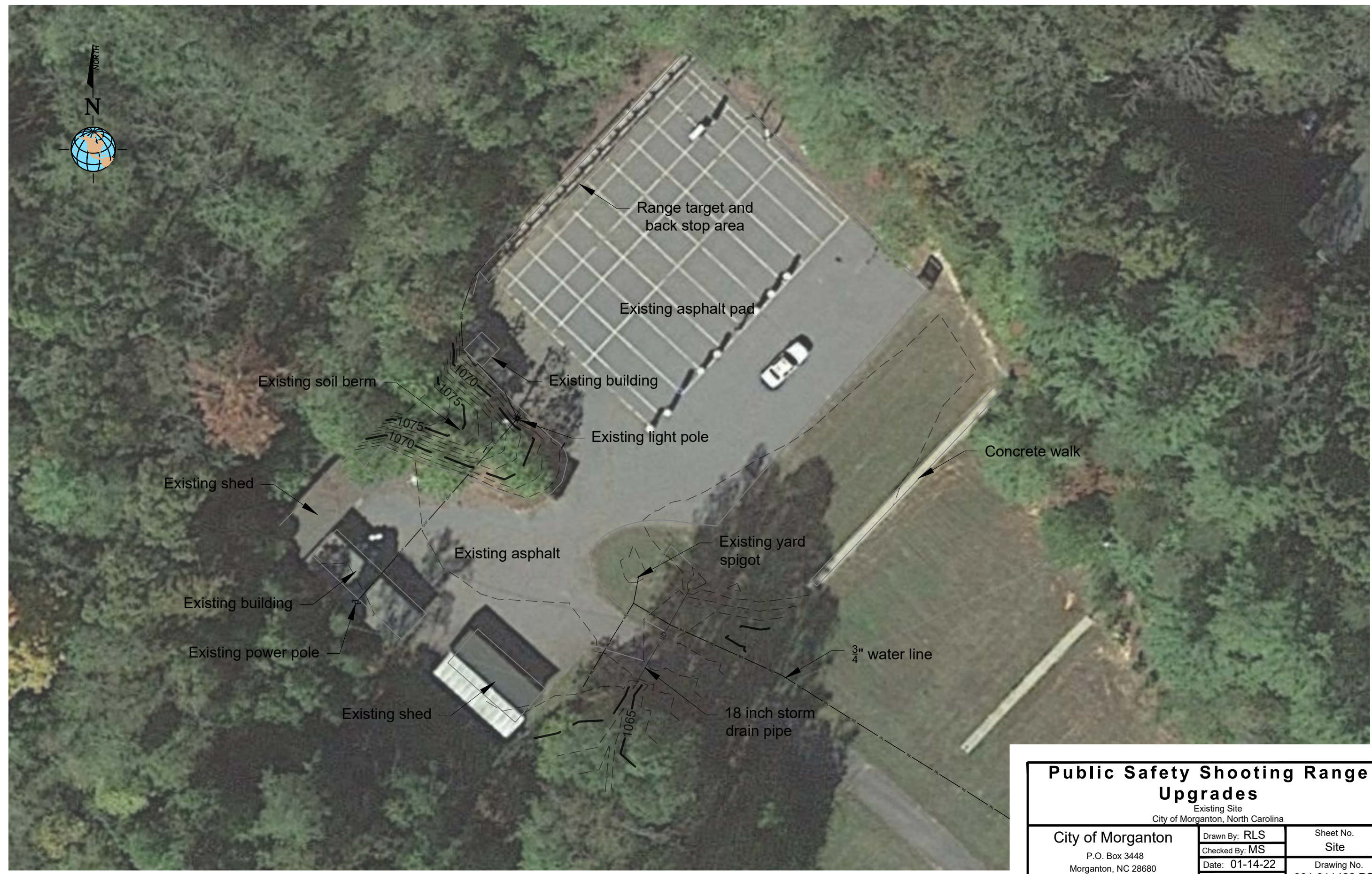
Vicinity Map
NTS

City Officials

Mayor	Ronnie Thompson
Mayor Pro Tem	Wendy Cato
Councilman	Chris Hawkins
Councilman	Butch McSwain
Councilman	Chris Jernigan
City Manager	Sally W. Sandy
City Engineer	Mario Sclarandis, P.E.
Dir. Development & Design Services	Phillip Lookadoo

Drawing Index

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Existing Site	Site
Site Plan	C-1
Storm Drain Plan	C-2 & C-3
Soil Berm Profile	C-4
Standards and Details	D-1 & D-2



Range target and back stop area

Existing asphalt pad

Existing building

Existing light pole

Concrete walk

Existing soil berm

Existing shed

Existing asphalt

Existing yard spigot

Existing building

Existing power pole

3/4" water line

Existing shed

18 inch storm drain pipe

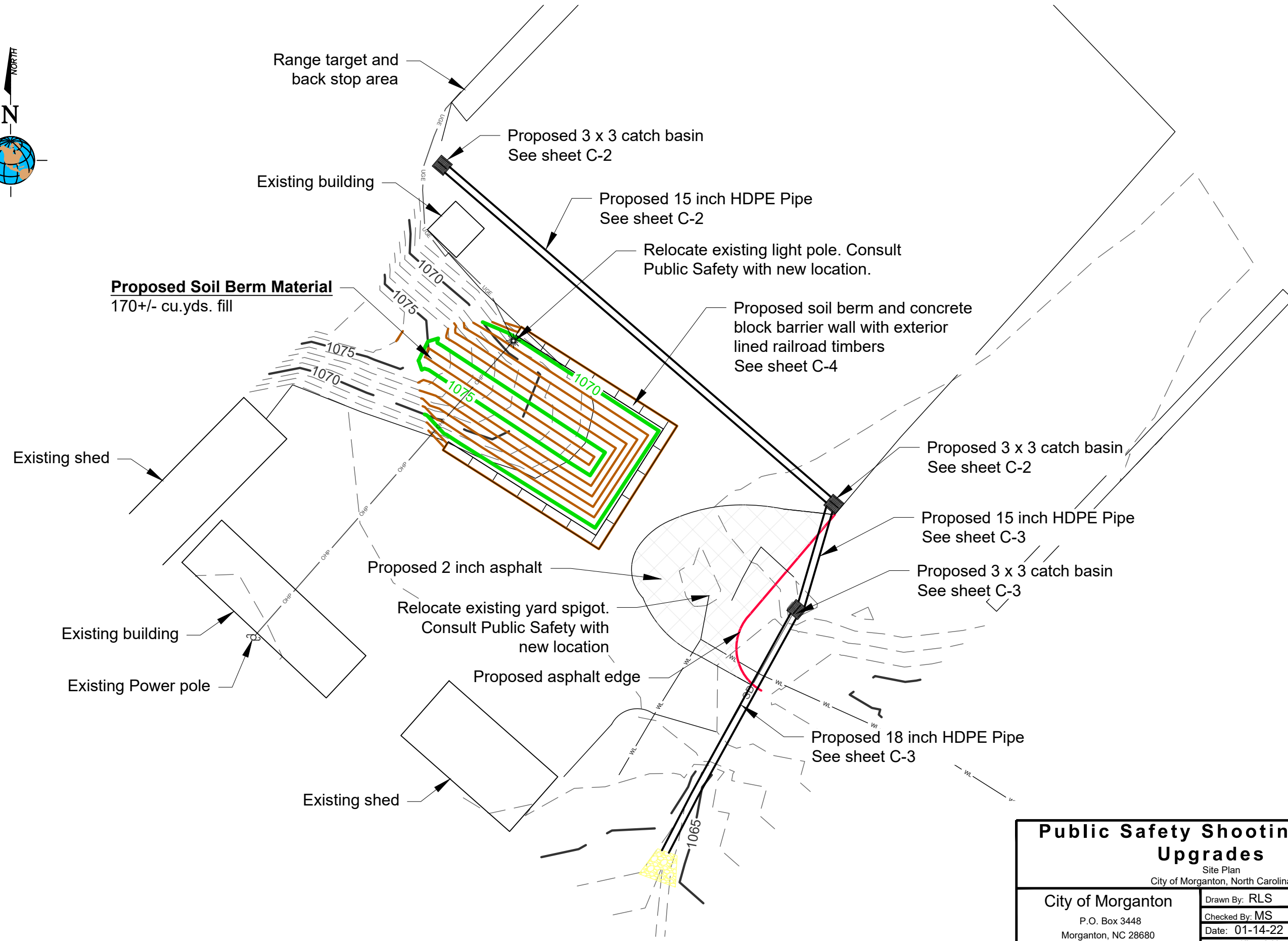
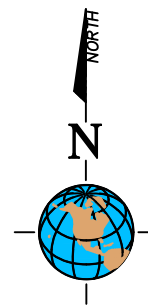
Public Safety Shooting Range Upgrades

Existing Site
City of Morganton, North Carolina

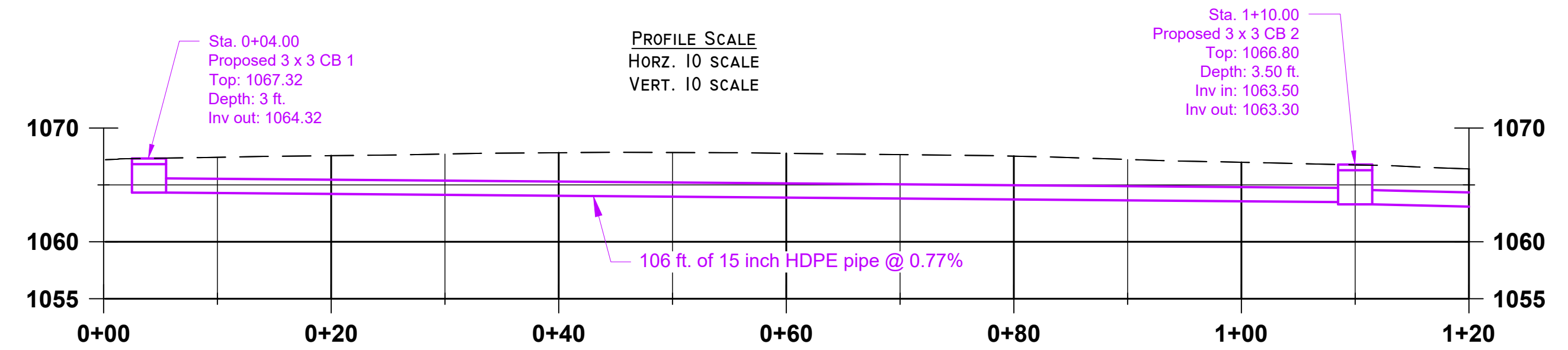
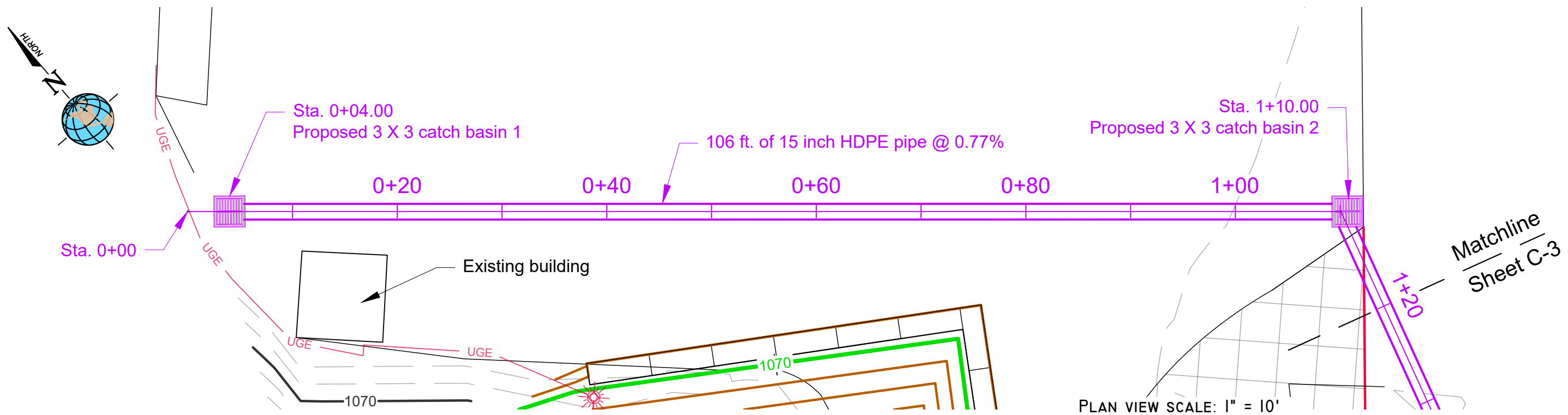
City of Morganton
P.O. Box 3448
Morganton, NC 28680
(828) 438-5262

Drawn By: RLS
Checked By: MS
Date: 01-14-22
Scale: See Plan

Sheet No. Site
Drawing No. 001.011422.PS



Public Safety Shooting Range Upgrades		
Site Plan City of Morganton, North Carolina		
City of Morganton P.O. Box 3448 Morganton, NC 28680 (828) 438-5262	Drawn By: RLS	Sheet No. C-1
	Checked By: MS	Drawing No. 001.011422.PS
	Date: 01-14-22	
	Scale: 1" = 20'	



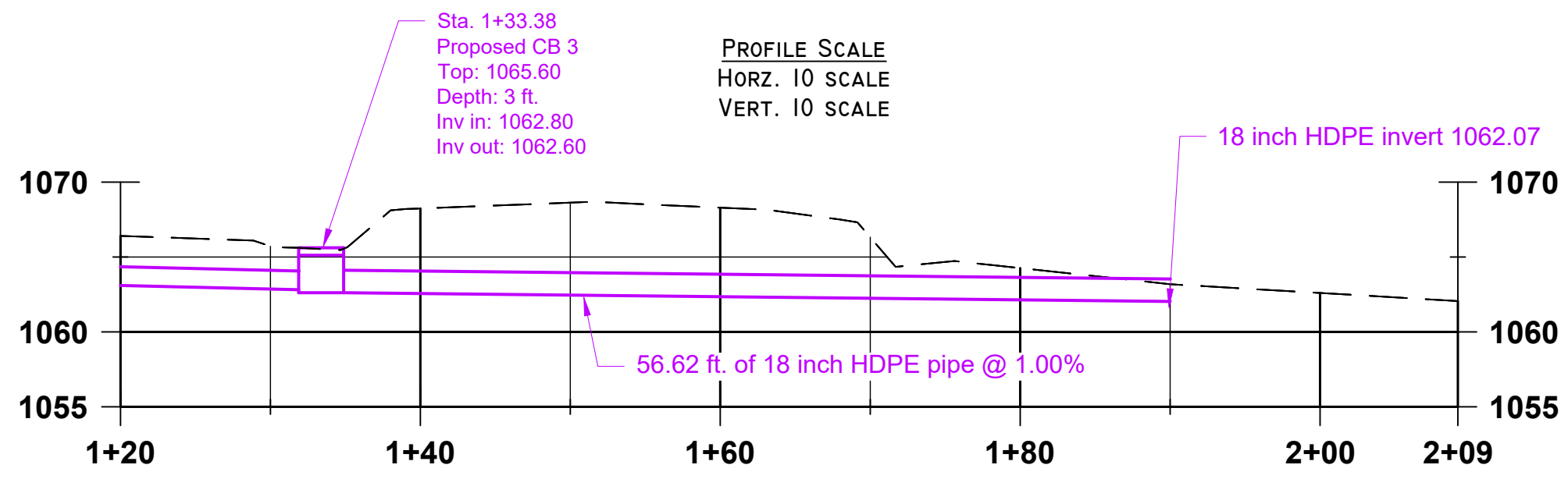
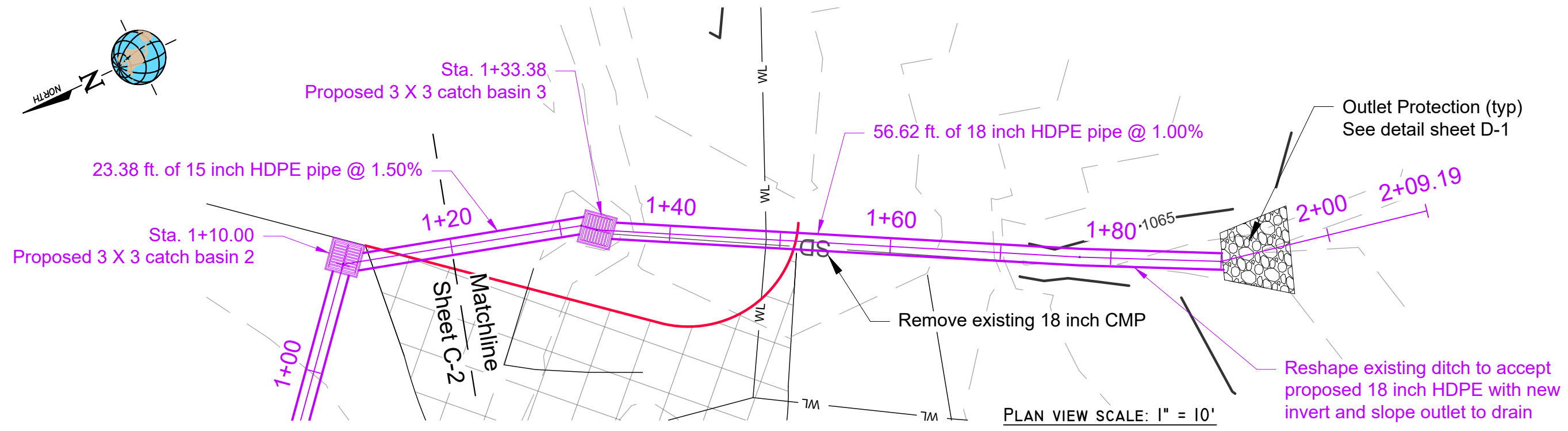
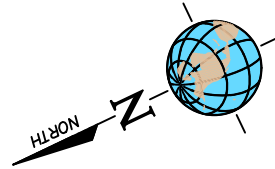
Notes:

1. Saw cut existing asphalt where catch basins and proposed storm drain pipe are to be installed.
2. Repair all asphalt area's that were removed or damaged during construction. See Pavement Patch Schedule note on this page and detail sheet D-1.

Pavement Patch Schedule

1. 12 inches compacted aggregate base course.
2. 2.5 inches of surface course to be placed following compacted base course. All asphalt plant mixes shall meet the most current NCDOT specifications.

Public Safety Shooting Range Upgrades		
Storm Drain Plan City of Morganton, North Carolina		
City of Morganton P.O. Box 3448 Morganton, NC 28680 (828) 438-5262	Drawn By: RLS	Sheet No. C-2
	Checked By: MS	Drawing No.
	Date: 01-14-22	001.011422.PS
	Scale: See Plan	



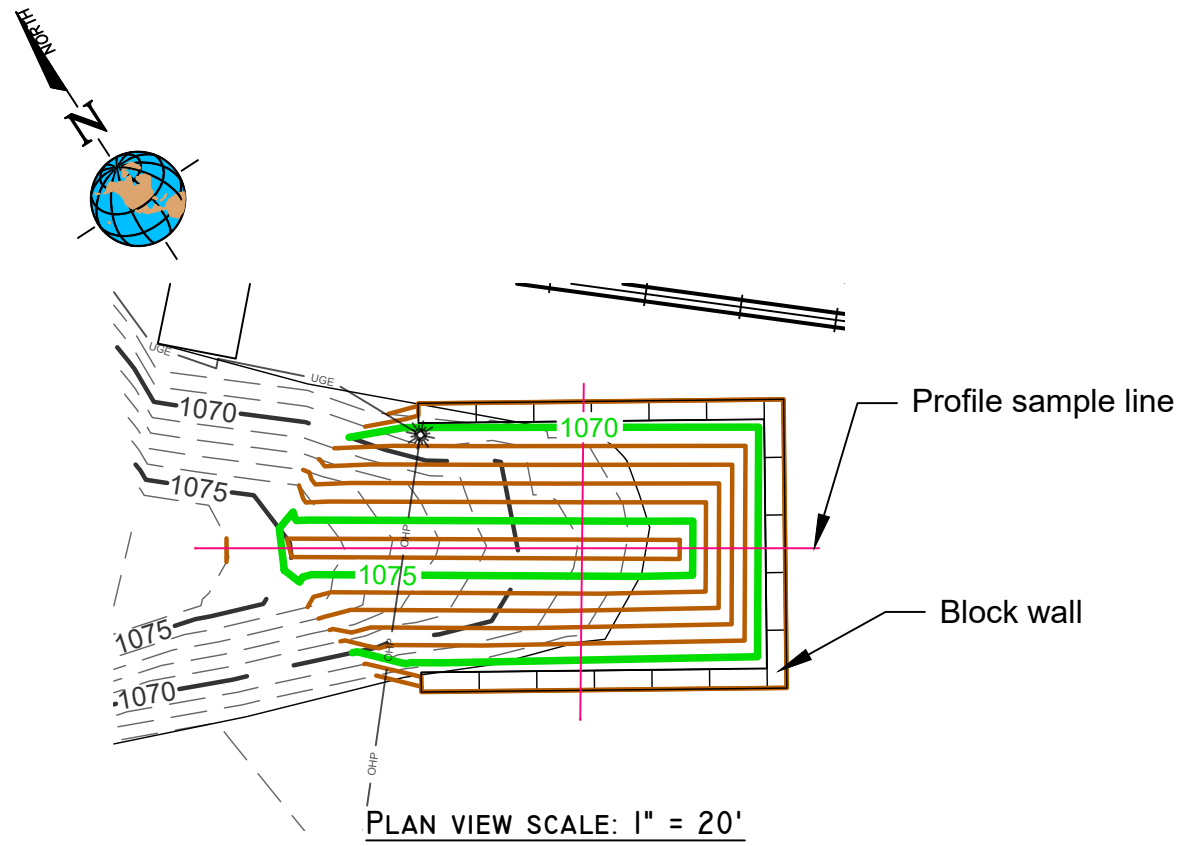
Notes:

1. Saw cut existing asphalt where catch basins and proposed storm drain pipe are to be installed.
2. Repair all asphalt area's that were removed or damaged during construction. See Pavement Patch Schedule note on this page and detail sheet D-1.

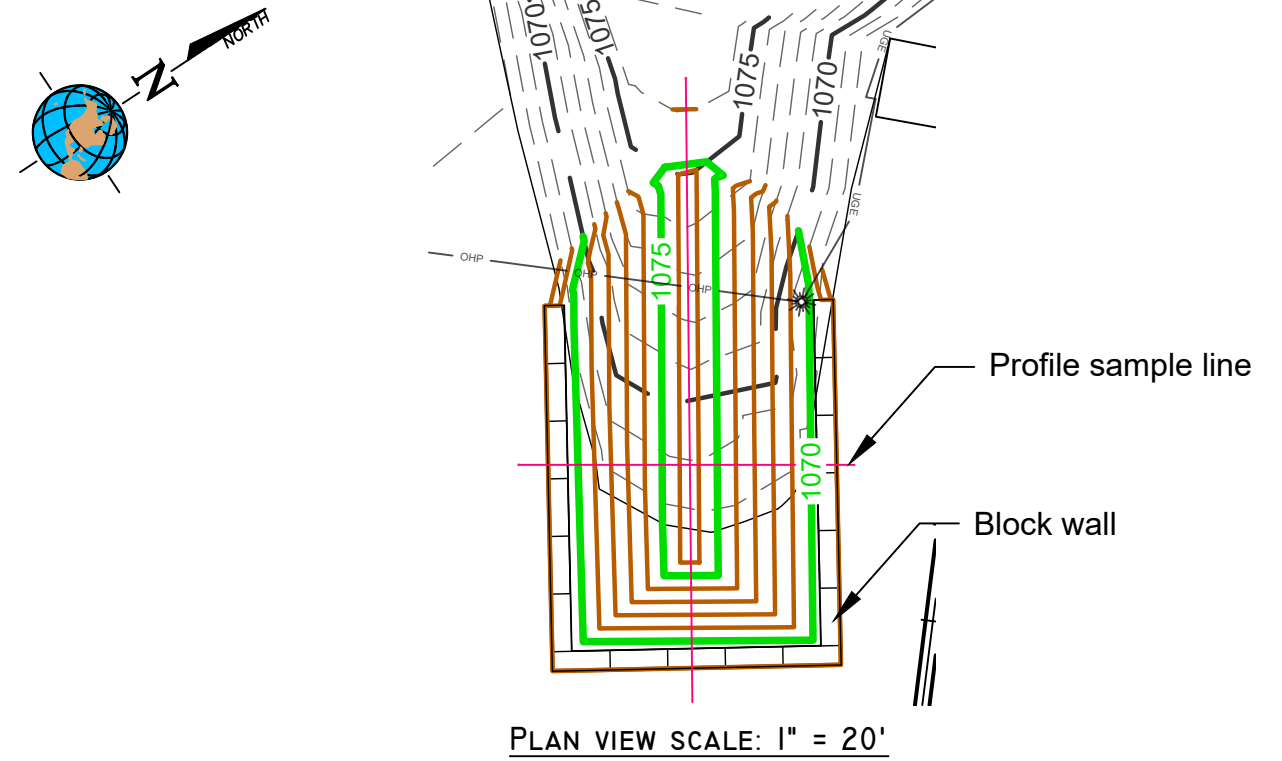
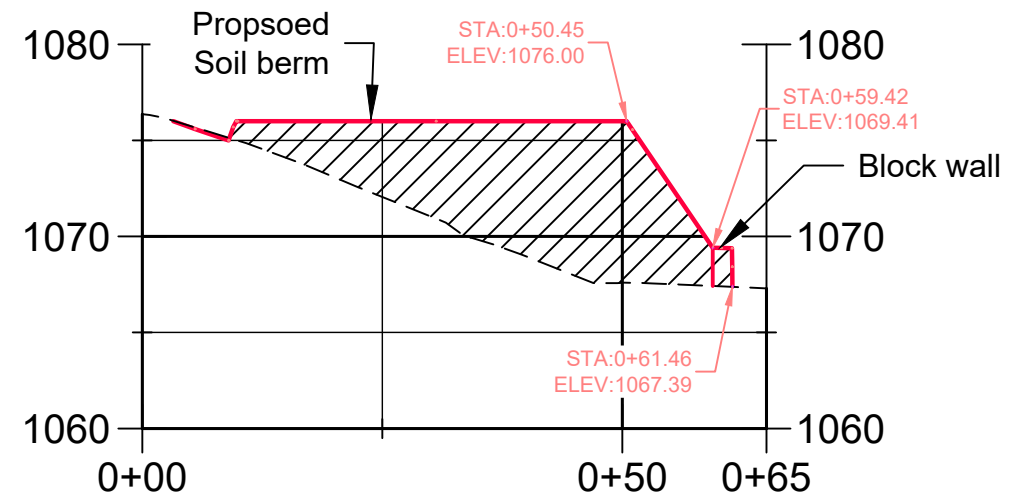
Pavement Patch Schedule

1. 12 inches compacted aggregate base course.
2. 2.5 inches of surface course to be placed following compacted base course. All asphalt plant mixes shall meet the most current NCDOT specifications.

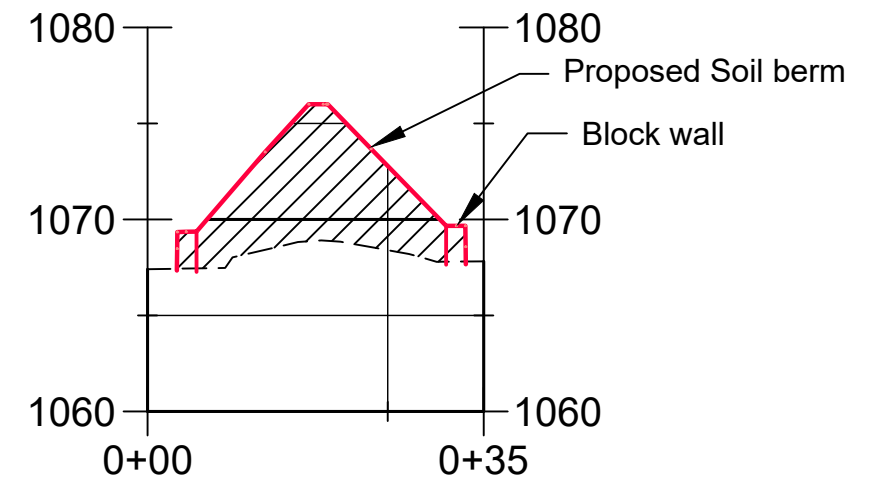
Public Safety Shooting Range Upgrades		
Storm Drain Plan City of Morganton, North Carolina		
City of Morganton P.O. Box 3448 Morganton, NC 28680 (828) 438-5262	Drawn By: RLS	Sheet No. C-3
	Checked By: MS	Drawing No.
	Date: 01-14-22	001.011422.PS
	Scale: See Plan	



PROFILE SCALE
 HORZ. 20 SCALE
 VERT. 10 SCALE



PROFILE SCALE
 HORZ. 20 SCALE
 VERT. 10 SCALE



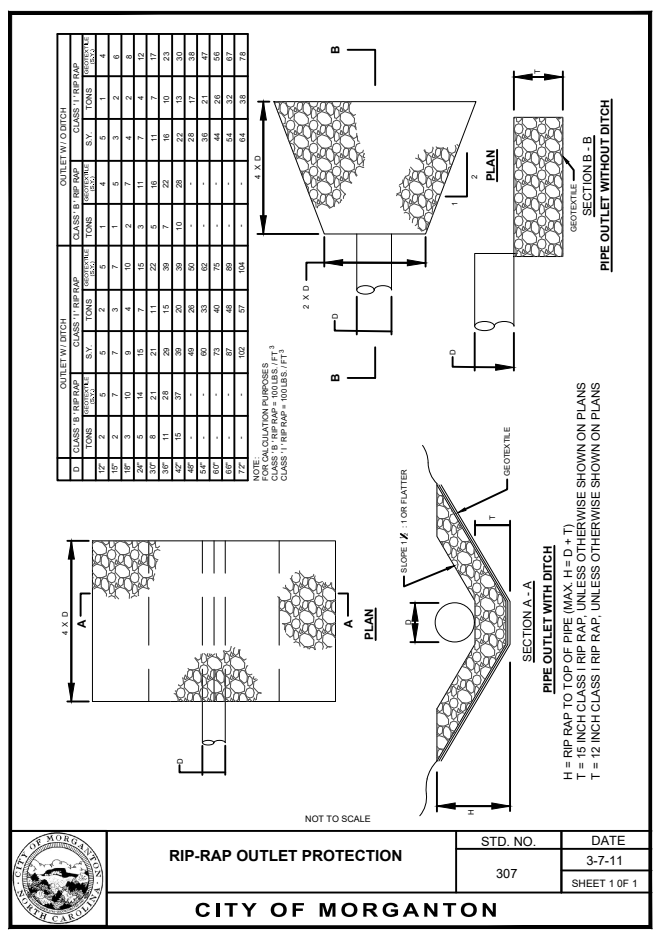
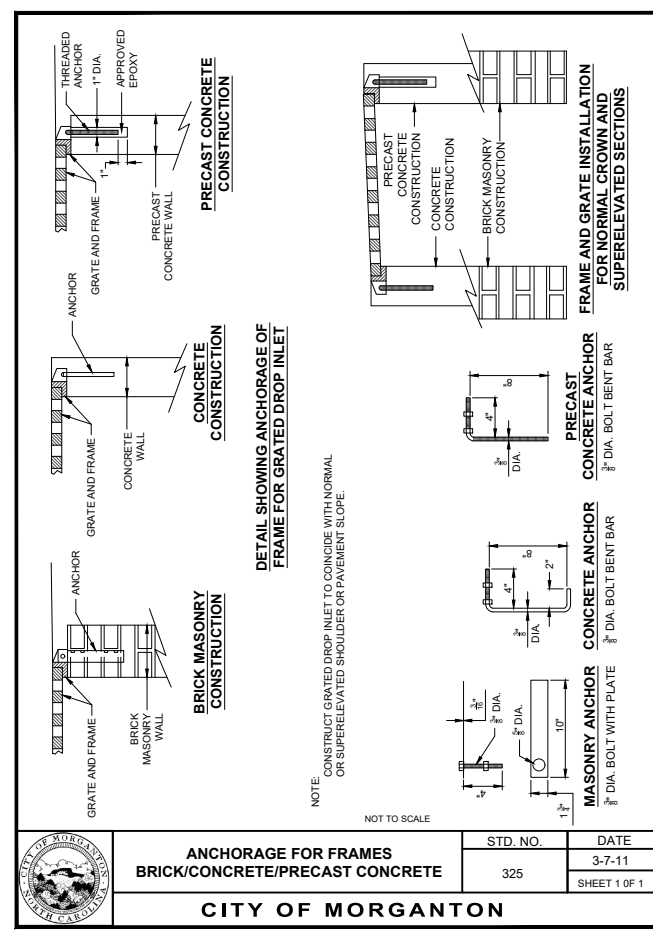
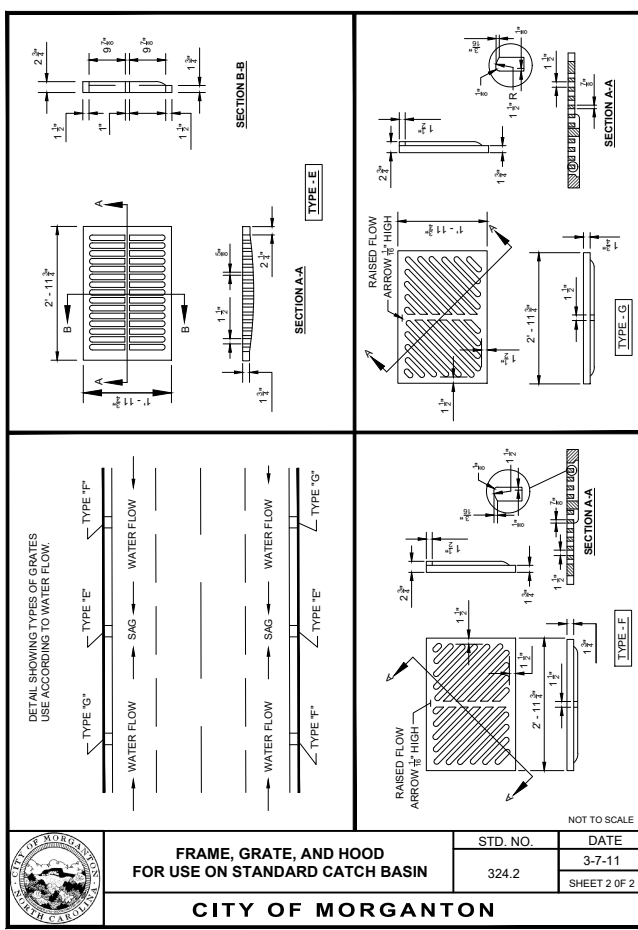
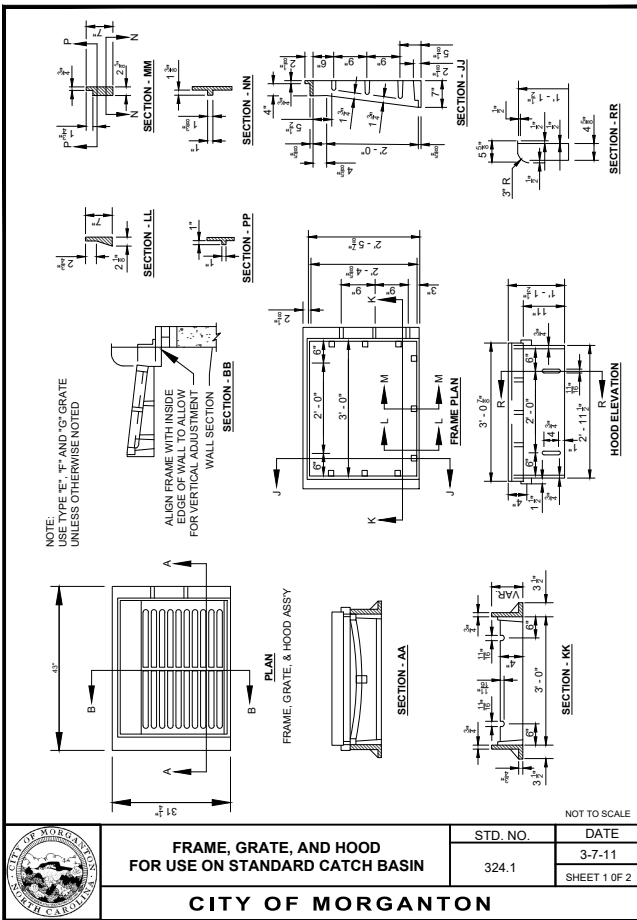
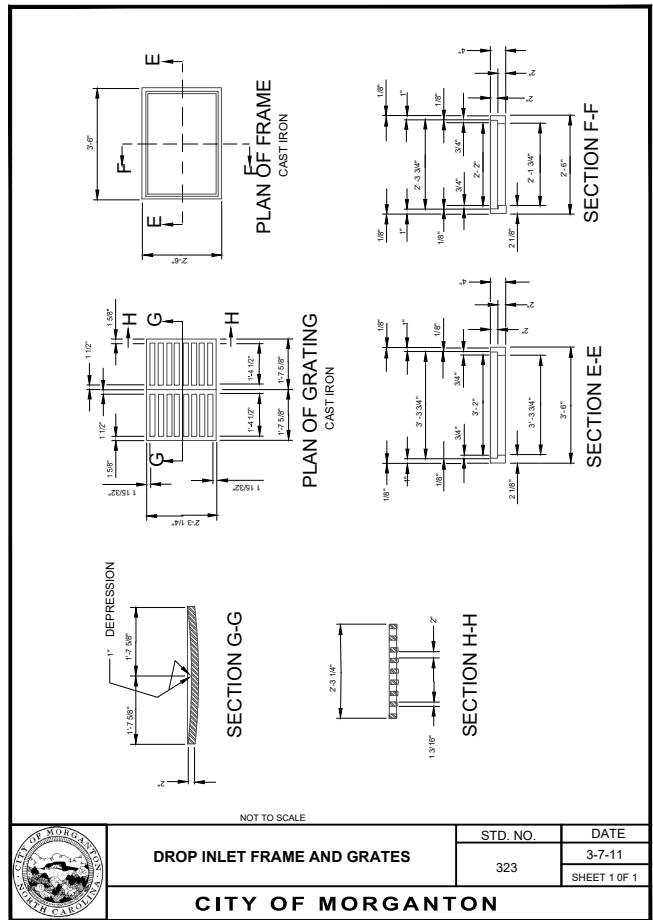
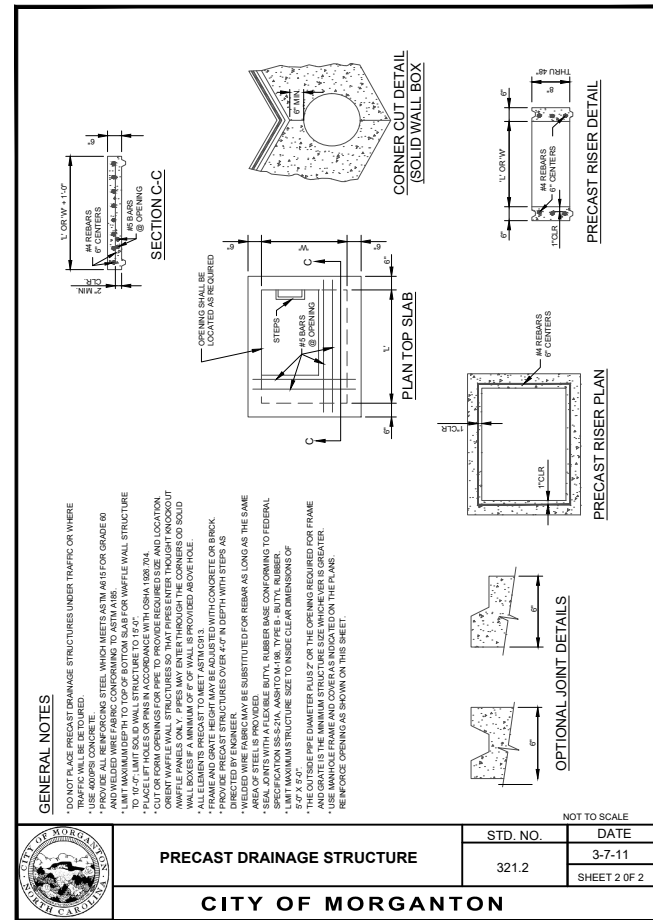
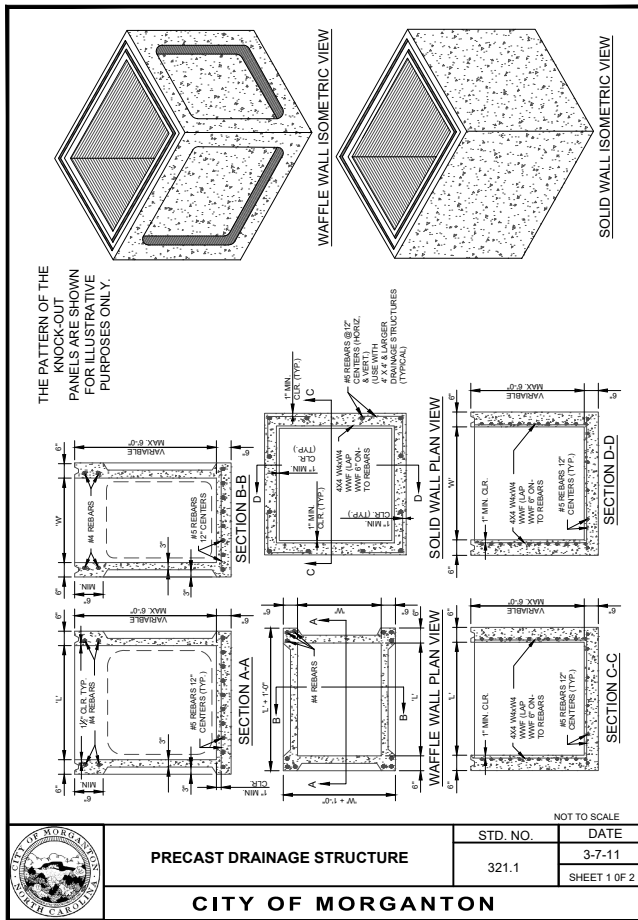
**Public Safety Shooting Range
 Upgrades**

Soil Berm Profile
 City of Morganton, North Carolina

City of Morganton

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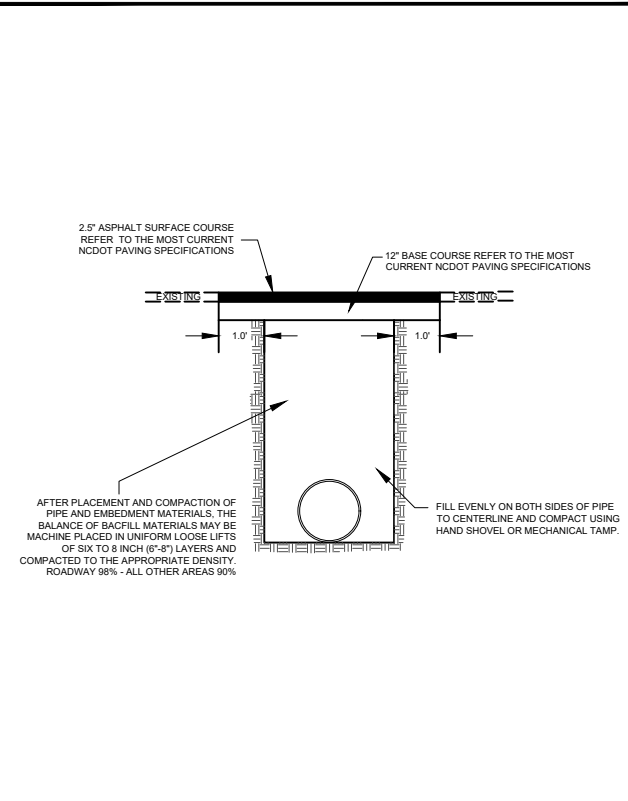
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Date: 01-14-22	Drawing No.
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**Public Safety Shooting Range
Upgrades**
Standards and Details
City of Morganton, North Carolina


City of Morganton
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Morganton, NC 28680
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NOT TO SCALE

REVISED 3-3-14

	UTILITY PATCH AND REPAIR		STD. NO.	DATE
			219	3-7-11
	CITY OF MORGANTON			SHEET 1 OF 1

Public Safety Shooting Range Upgrades Standards and Details City of Morganton, North Carolina		
City of Morganton P.O. Box 3448 Morganton, NC 28680 (828) 438-5262	Drawn By: RLS	Sheet No. D-2
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