



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J.R. "Joey" Hopkins  
SECRETARY

March 4, 2024

**County:** Wake  
**Subject:** Encroachment Contract  
SR 2053  
E051-092-23-01267

Rivercrest Realty Associates, LLC  
8816 Six Forks Rd  
Raleigh, NC 27615

Dear Sir or Madam,

Attached for your files is a copy of Right of Way Encroachment Agreement, which has been properly executed. This contract covers the following:

**815 LF of 8" Sewer main and 75 LF of 4" Sewer service and waterline tap.**

**CROSSING TO BE BY BORE ONLY, NO PAVEMENT CUTS ALLOWED.**

**A PERFORMANCE AND INDEMNITY BOND IN THE VALUE OF \$20,000 IS REQUIRED AND SHALL BE POSTED WITH THE DISTRICT OFFICE PRIOR TO THE START OF WORK.**

This encroachment is approved subject to the Standard and Special Provisions which are attached to and made a part of the Encroachment Contract.

Sincerely,

Daniel T. Boulware, PE, District Engineer  
for B. H. Jones, PE, Division Engineer  
BHJ/DTB/dab

cc: Mr. Daniel Boulware (w/ orig)  
Town of Rolesville

Attachment

*Mailing Address:*  
NC DEPARTMENT OF TRANSPORTATION  
DIVISION 5 – DISTRICT 1  
1575 MAIL SERVICE CENTER  
RALEIGH, NC 27699-1575

*Telephone:* (919) 814-6115  
*Fax:* (919) 715-5778  
*Customer Service:* 1-877-368-4968

*Website:* [www.ncdot.gov](http://www.ncdot.gov)

*Location:*  
4009 DISTRICT DRIVE  
RALEIGH, NC 27607

## **Encroachment Special Provisions**

1. NCDOT WORK ZONE TRAFFIC CONTROL QUALIFICATIONS AND TRAINING PROGRAM:
  - A. Effective July 1, 2010, all flagging operations within NCDOT Right of Way require qualified and trained Work Zone Flaggers.
  - B. Effective July 1, 2011, qualified and trained Work Zone Traffic Control Supervisors will be required on Significant Projects.
  - C. Training for this certification is provided by NCDOT approved training sources and by private entities that have been pre-approved to train themselves. If you have questions, contact our web site at <https://connect.ncdot.gov/projects/WZTC/Pages/default.aspx>, or contact Kenneth Thornewell, PE with NCDOT Work Zone Traffic Control Unit at (919) 814-5037 or [kethornewell@ncdot.gov](mailto:kethornewell@ncdot.gov).
2. This encroachment agreement only covers work within NCDOT Right-of-Way as shown on the attached plans.
3. Current and future state projects take precedence over this encroachment.
4. A \$20,000.00 Performance and Indemnity Bond shall be executed and posted with the District Office at 4009 District Drive, Raleigh, North Carolina 27607, prior to beginning any work on the Right of Way. When the project has been completed for a period of one year, upon written request by the Encroacher to the District Office, a final inspection and review will be conducted by NCDOT, and if all work is found satisfactory, the bond will be released.
5. If there are installation conflicts with any NCDOT project, all costs associated with the adjustments and or the relocation of utilities shall be the responsibility of the encroacher with no cost to NCDOT.
6. Nighttime and weekend operations will NOT be allowed unless written approval is received from the District Engineer. If nighttime or weekend work is allowed or required, all signs must be retroreflective, and a work zone lighting plan must be submitted for approval prior to construction. If written approval is needed, please contact the District Office at 919-814-6115.
7. Any personnel or equipment working within five feet of the edge of any travel lane of an undivided facility and within 10 feet of the edge of any travel lane of a divided facility shall require a lane closure with appropriate tapers and signage in accordance with the MUTCD and the MUTCG. No lane of traffic shall be closed or restricted between the hours of 6:00 AM to 9:00 AM and 4:00 PM to 7:00 PM Monday thru Friday, during any time of inclement weather, holiday, or upon District Engineers' directive. Traffic shall be maintained at all times. Any violation of these hours will result in termination of the Encroachment Agreement and liquidated damages in the amount of \$2,000.00 per hour or any portion thereof will be assessed by the District Engineers Office.  
  
Nighttime and weekend operations will NOT be allowed unless written approval is received from the District Engineer. If nighttime or weekend work is allowed or required, all signs must be retro-reflective, and a work zone lighting plan must be submitted for approval prior to construction. If written approval is needed, please contact the District Office at 919-814-6115.
8. Notify the Town of Rolesville before starting work.

9. The proposed utilities shall be placed at a minimum depth of 3 feet and at a minimum distance of 3 feet from the edge of pavement or back of curb for installation parallel to the roadway when plowing or trenching. If crossing the roadway, the proposed utility is to be a minimum depth of 5 feet below the roadway travel surface when using the conventional bore method. The proposed utility shall be placed at a minimum depth of 3 feet and at a minimum distance of 3 feet from the edge of pavement or back of curb for installation parallel to the roadway when using the directional bore method.
10. The proposed Sewer/Waterlines shall be installed by bore only.
11. Pavement cores made to expose existing utilities shall be made with a maximum 18" pavement core. Pavement core locations shall not be placed in the wheel path whenever possible. Vacuum excavation shall be utilized to expose underground utilities. Pavement cores shall be repaired within the same working day. The pavement core shall be retained and reused to fill the core hole. The excavation shall be backfilled and compacted with select material to the bottom of the existing pavement structure or as indicated on the manufacturer's specifications. The retained core shall be placed in the hole and secured with a waterproof, mechanical joint. All materials must be listed on the NCDOT Approved Products List (APL) found here: <https://apps.ncdot.gov/vendor/approvedproducts/> Prior to completion, ensure road surface is clean. If the pavement core is damaged and cannot be re-used, the core may be replaced with the surface mix, S9.5C. The asphalt patch shall match the thickness of the existing asphalt or four inches, whichever is greater. Prior to completion, ensure road surface is clean.  
  
If it becomes necessary for NCDOT to make any repairs associated with this encroachment, then the encroaching party will be charged for all costs associated with the repair.
12. The proposed installation of street lighting shall be installed on existing poles, and or proposed poles only.
13. Guardrail that is damaged during construction shall be repaired to its original condition.
14. Fencing that is damaged during construction shall be repaired to its original condition.
15. Sidewalk, Curb and Gutter, Driveways and or Paved Walk Way (Trail) that are damaged during construction shall be repaired to its original condition.
16. Contractor to notify NCDOT District Engineer's Office 48 hours prior to beginning any work in the Right-of-Way. Notify Daniel T. Boulware, PE at (919) 814-6115.

## **Encroachment Standard Provisions**

1. An executed copy of this encroachment agreement will be present at the construction site at all times during construction. NCDOT reserves the right to stop all work unless evidence of approval can be shown.
2. NCDOT reserves the right to revise, restrict, suspend and/or void this encroachment agreement if the execution and/or operation of said permit is found to be a hazard to the traveling public.
3. This encroachment agreement only covers work within NCDOT Right-of-Way. The encroacher is responsible for verifying all right of way. NCDOT does not guarantee the right of way on this road. If the right of way was not obtained by the fee simple method, it is the responsibility of the encroacher to obtain permission from the underlying property owner/owners.

Encroacher shall be responsible for obtaining all necessary permanent and/or temporary construction, drainage, utility and/or sight distance easements. All Right of Way and easements necessary for construction and maintenance shall be dedicated to NCDOT with proof of dedication furnished to the District Engineer prior to beginning work.

4. Notify the District Engineer's Office at (919) 814-6115 or at 4009 District Drive, Raleigh, NC 27607, prior to beginning and after completion of work.
5. The encroacher is responsible for any claim for damages brought by any property owner by reason of the installation.
6. The Encroacher shall notify the public, including all adjacent property owners and businesses, a minimum of 2 weeks prior to beginning work.
7. Any and all changes noted in red on the plans shall be incorporated into and made part of the approved permit.
8. The encroaching party shall comply with all applicable local, state and federal environmental regulations, and shall obtain all necessary state and federal environmental permits, including but not limited to, those related to sediment control, storm water, wetland, streams, endangered species, and historical sites.
9. All materials and construction shall be in accordance with NCDOT standards and specifications, including but not limited to, the NCDOT Standard Specifications for Roads and Structures 2012, the NCDOT Roadway Standards Drawings, and NCDOT Policies and Procedures for Accommodating Utilities on Highway Rights of Way.
10. The encroacher shall provide traffic control devices, lane closures, road closures, positive protection and/or any other warning or positive protection devices necessary for the safety of road users during construction and any subsequent maintenance. This shall be performed in conformance with the latest NCDOT Roadway Standard Drawings and Standard Specifications for Roads and Structures and Amendments or Supplements thereto. When there is no guidance provided in the Roadway Standard Drawings or Specifications, comply with the Manual on Uniform Traffic Control Devices for Streets and Highways and Amendments or Supplements thereto. No work shall be performed in the Right of Way unless this requirement is satisfied. NCDOT reserves the right to require a written traffic control plan for encroachment operations.

Sidewalk closures shall be installed as necessary. Pedestrian traffic shall be detoured around these closures and shall be signed appropriately and in accordance with The American with Disabilities Act Accessibility Guidelines.

11. No parking or material storage shall be allowed along the shoulders of any NCDOT roadways.
12. Two-way traffic shall be maintained at all times.
13. No lane closures shall be permitted between the hours of 6:00 AM to 9:00 AM and 4:00 PM to 7:00 PM, Monday through Friday unless otherwise specified in the Special Provisions of this encroachment agreement.
14. At the end of each working day, equipment shall be parked outside of the clear recovery zone in order to avoid any obstruction to the travelling public. This clear recovery zone is measure from the edge of the nearest travel lane.
15. Work shall not be performed on both sides of the road simultaneously within the same area.
16. Ingress and egress shall be maintained to all businesses and dwellings at all times.
17. All (cast-in-place and/or pre-cast) splice boxes, handholes, manholes, drainage structures and other appurtenances within NCDOT Right of Way shall be of a NCDOT approved design for traffic bearing, HS-20 loading, and shall be flush mounted. Manholes, handholes and vaults shall not be placed in the ditch-line, side slopes of the ditch or in the pavement.

All frames, grates, rings, covers, etc. are to be manufactured in accordance with the requirements of Section 106-1B - "Domestic Steel". Foreign castings are not approved for use within NCDOT Right of Way.

18. All above ground appurtenances associated with the installation of the proposed utility shall be located/relocated at or as near as possible to the right-of-way line and shall be set outside the Clear Recovery Area as outlined by AASHTO.
19. Directional drilling methods have not been given Statewide approval for use on NCDOT right of way. Under no condition shall jetting alone or wet boring with water of utility pipelines be allowed. Directional boring using jetting with a Bentonite (or equivalent material) slurry is approved for this installation at a minimum depth of ten (10) feet below the pavement surface {fifteen (15) feet below the surface of partial and /or full control of access roads} and 5' below any ditch line. Any parallel installation utilizing the directional boring method shall be made at a minimum depth of three (3) feet (cover) below the ground surface and outside the theoretical 1:1 slope from the existing edge of pavement where the parallel installation crosses a paved roadway. The tip of the drill string shall have a cutter head. Detection wire shall be installed with non-ferrous material. Any changes shall be submitted to the District Engineer prior to any consideration. For multiple conduit installations (including perpendicular and parallel installations), install conduits with five (5) feet horizontal separation between each conduit or install multiple conduits with a single duct. An overbore shall not be more than two (2) inches greater than the diameter of the pipe, encasement, or duct. An overbore exceeding two (2) inches greater than the diameter of the pipe, encasement, or duct will be considered if the encroachment agreement includes a statement signed and sealed by a North Carolina Registered Professional Engineer indicating that an overbore in excess of two (2) inches of the diameter of the pipe, encasement , or duct will arch and no damage will be done to the pavement or subgrade. HDPE Pipe installed by directional boring shall not be connected to existing pipe or fittings for one week from the time of installation to allow tensional stresses to relax.
20. All crossings of state maintained routes shall be by bore only, unless otherwise stated in this encroachment agreement.
21. Underground utilities may cross perpendicularly but not run longitudinally under the pavement.

22. At points where the utility is placed under existing storm drainage, the trench will be backfilled with concrete up to the outside diameter of the existing pipe in compliance with NCDOT standards.
23. The paving of this roadway shall be in accordance with the revised NCDOT 2012 Standard Specifications, Sections 610, 1012 and 1020. The Contractor shall follow all procedures of the attached Quality Management System (QMS) for asphalt pavement - Maintenance Version. The Contractor must adhere to all testing requirements and quality control requirements specified. The Contractor shall contact the NCDOT Division 5 QA Supervisor at (919) 562-0018 prior to producing plant mix and make the Supervisor aware that the mix is being produced for a future NCDOT road. Only NCDOT approved mix designs will be acceptable. A quality control plan shall be submitted to the District Engineer's Office prior to asphalt production. Use form QMS-MV1 for the Quality Control Plan submittal. Failing mixes and/or densities are subject to penalties including monetary payments or removal and replacement.
24. Roadway certification reports sealed by a Professional Engineer shall be submitted to the North Carolina Department of Transportation at 4009 District Drive, Raleigh, North Carolina, indicating the following:
  - \* Pavement thickness by type
  - \* Pavement density, core and/or test locations
  - \* Base thickness
  - \* Base density
  - \* Subgrade densityTest frequency and method shall be in conformance with the NCDOT "Materials and Tests" Manual. Test must be performed by a Certified Technician including name and Certification number on report.
25. Any existing driveways, pavement, sidewalk, curb and gutter or drainage structures that are damaged during construction shall be repaired to their original condition.
26. All meter bases and services shall be located/relocated at or as near as possible to the right-of-way line.
27. Pedestals shall be placed a maximum of one foot inside the Right of Way.
28. Fire Hydrants shall be of the break-away type. Hydrants shall be placed a maximum of one foot inside the right of way in ditch sections or a minimum of 6 feet behind the curb in curb and gutter sections.
29. Hot boxes shall be located outside sight distance triangles and off of the NCDOT Right-of-Way.
30. When surface area in excess of one acre will be disturbed, the Encroacher shall submit a Sediment and Erosion Control Plan which has been approved by the appropriate regulatory agency or authority prior to beginning any work on the Right of Way. Failure to provide this information shall be grounds for suspension of operations.
31. All erosion control devices and measures shall be constructed, installed, maintained, and removed by the Encroacher in accordance with all applicable Federal, State, and Local laws, regulations, ordinances, and policies. All earth areas shall be regraded and seeded in accordance with NCDOT Standards Specifications for Roads and Structures 1995. Seeding rates per acre shall be the following:
  - \* Year Round Mixture: 50# Pensacola Bahia Grass; 50# KY 31 Tall Fescue; 5# Centipede; 500# 10-20-20 Fertilizer; 4000# Limestone;
  - \* 2:1 Slopes Standard Mix: Use Year Round Mixture (Delete Centipede); Add 25# Service Lespedeza;
  - \* If Using Crown Vetch on 2:1 Slope (September-May): Use Year Round Mixture; Add Crown Vetch 15 lbs./Ac.; (Delete Centipede and Bahia)

32. The applicant is responsible for identifying project impacts to waters of the United States (wetlands, intermittent streams, perennial streams and ponds) located within the NCDOT right-of-way. The discharge of dredged or fill material into waters of the United States requires authorization from the United States Army Corps of Engineers (USACE) and certification from the North Carolina Division of Water Quality (NCDWQ). The applicant is required to obtain pertinent permits or certification from these regulatory agencies if construction of the project impacts waters of the United States within the NCDOT right-of-way. Additional information can be obtained by contacting the USACE or NCDWQ.
33. The applicant is responsible for avoiding impacts to federally protected species during project construction. Bald eagle, Michaux's sumac, smooth coneflower, dwarf wedgemussel, harperella, red-cockaded woodpecker and tar spiny mussel are federally protected species that have been identified within NCDOT right-of-way in Durham, Person, Granville, Wake, Franklin, Vance, and Warren counties. Additional information can be obtained by contacting the North Carolina Natural Heritage Program or the United States Fish and Wildlife Services.
34. The applicant is responsible for complying with the Neuse and Tar-Pamlico Riparian Buffer Rule as regulated by the NCDWQ. The Rule regulates activity within a 50-foot buffer along perennial streams, intermittent streams and ponds. Additional information can be obtained by contacting the NCDWQ.
35. Existing drainage patterns shall be maintained at all times throughout the proposed construction. The encroacher shall keep the roadway clean of dirt and debris at all times throughout the duration of the project.
36. The Division Traffic Engineer shall be notified at (919) 220-4600 prior to any excavation within 500 feet of a signalized intersection or if there are existing NCDOT signs in or near the proposed work zone. All traffic signal or detection cables must be located prior to excavation. All signal work and traffic signs shall be coordinated with the Division Traffic Engineer. Costs to relocate, replace, or repair NCDOT signs, signals, or associated equipment shall be the responsibility of the Encroacher.
37. All temporary and final pavement markings, reflective pavement markings and signage are the responsibility of the Encroacher. All final pavement markings shall be thermoplastic. Any pavement markings that are damaged or obliterated shall be restored at no expense to NCDOT.
38. All Traffic signs moved shall be reinstalled as soon as possible to meet NCDOT specifications.
39. Strict compliance with the Policies and Procedures for Accommodating Utilities on Highway Right of Way manual shall be required.
40. It shall be the responsibility of the Encroacher to determine the location of other utilities within the encroachment area. The Encroacher shall be responsible for notifying other utility owners and providing protection and safeguards to prevent damage or interruption to existing facilities and to maintain accessibility to existing utilities.
41. All earth areas disturbed shall be regraded and reseeded in accordance with Division of Highways Standards and Specifications.
42. The Encroacher shall remove all trees, stumps and vegetative material from the right of way and dispose of in a licensed landfill or disposal site.
43. Excavated material shall not be placed on the roadway at any time.
44. Trenching, bore pits and/or other excavations shall not be left open or unsafe overnight. The Contractor shall comply with all OSHA requirements and provide a competent person on site to supervise excavation at all times.

45. All excavations inside the theoretical 1:1 slope from the existing edge of pavement to the bottom of the nearest excavation wall should be made in accordance with the following conditions. Traffic should be moved to a travel lane outside the limits of a theoretical one-to-one slope from the bottom of the nearest trench wall to the pavement surface. Active excavation shoring, such as sheet piling, shall be installed. The design of the shoring shall include the effects of traffic loads. The shoring system shall be designed and sealed by an engineer registered in North Carolina. Trench boxes shall not be accepted as shoring. The trench backfill material should meet the Statewide Borrow Criteria.
46. Excavated areas adjacent to pavement having more than a 2 inch drop shall be made safe with a 6:1 or flatter slope and shall be designated by appropriate delineation during periods of construction inactivity, including, but not limited to, night and weekend hours.
47. Backfill material is to be placed at a maximum of 6 inch loose layers and each layer thoroughly compacted. All embankment backfill shall be compacted to 95% density and all subgrade to 100% density in accordance with AASHTO T-99 as modified by NCDOT. They shall be signed by a Professional Engineer and sent to the District Engineers Office at 4009 District Drive, Raleigh, NC 27607.
48. No commercial advertising shall be allowed within NCDOT Right of Way.
49. Guardrail shall be installed where warranted and in accordance with the guidelines shown in the 2012 Highway Design Branch Roadway Standard Drawings.  
  
Guardrail removed or damaged during construction shall be replaced or repaired to their original condition.
50. Poles shall be located/relocated at or as near as possible to the right-of-way line, shall be set outside the Clear Recovery Area as outlined by AASHTO and outside sight distance triangles.  
  
Poles located within guardrail sections shall be installed a minimum of 5 feet behind any guardrail. When applicable, poles shall be placed behind sidewalk.  
  
Any associated guy wires to ground anchors and stub poles shall not be placed between a pole and the travel way and should be located outside the clear recovery area.  
  
Minimum vertical clearance shall be 18' for aerial crossings over NCDOT roadways and 15'-6" for installations parallel to the roadway.
51. Fire Hydrants shall be of the break-away type. Hydrants shall be placed a maximum of one foot inside the right of way in ditch sections or a minimum of 6 feet behind the curb in curb and gutter sections.
52. Retaining walls or other vertical structures shall not be permitted inside NCDOT right of way.
53. Current and future state projects take precedence over this encroachment.



ROUTE SR-2053

PROJECT JONES DAIRY STORAGE FACILITY

COUNTY OF

WAKE

DEPARTMENT OF TRANSPORTATION

THREE PARTY RIGHT OF WAY

-AND- RIVERCREST REALTY ASSOCIATES, LLC

ENCROACHMENT AGREEMENT ON PRIMARY AND SECONDARY SYSTEM

8816 Six Forks Rd, #201, Raleigh, NC 27615

-AND-

City of Raleigh

1 Exchange Plaza, #620, Raleigh, NC 27601

THIS AGREEMENT, made and entered into this the 25th day of June, 2024, by and between the Department of Transportation, party of the first part; and CITY OF RALEIGH party of the second part; and RIVERCREST REALTY ASSOCIATES, LLC party of the third part,

WITNESSETH

THAT WHEREAS, the party of the second part desires to encroach on the right of way of the public road designated as Route(s) SR-2053, located FROM THE INTERECTION OF SR-2053 (JONES DAIRY ROAD) AND SR-4403 (WINTER SPRING DR) TO A POINT 800-LF EAST.

with the construction and/or erection of: APPROXIMATELY 700-LF OF SEWER MAIN CONSTRUCTION IN JONES DAIRY RIGHT-OF-WAY & TAP AND EXTENSION OF WATER SERVICES FOR FIRE PROTECTION AND DOMESTIC WATER SERVICE.

WHEREAS, it is to the material advantage of the party of the second part to effect this encroachment, and the party of the first part in the exercise of authority conferred upon it by statute, is willing to permit the encroachment within the limits of the right of way as indicated, subject to the conditions of this agreement;

NOW, THEREFORE, IT IS AGREED that the party of the first part hereby grants to the party of the second part the right and privilege to make this encroachment as shown on attached plan sheet(s), specifications and special provisions which are made a part hereof upon the following conditions, to wit:

That the installation, operation, and maintenance of the above described facility will be accomplished in accordance with the party of the first part's latest UTILITIES ACCOMMODATIONS MANUAL, and such revisions and amendments thereto as may be in effect at the date of this agreement. Information as to these policies and procedures may be obtained from the Division Engineer or State Utilities Manager of the party of the first part.

That the said party of the second part binds and obligates himself to install and maintain the encroaching facility in such safe and proper condition that it will not interfere with or endanger travel upon said highway, nor obstruct nor interfere with the proper maintenance thereof, to reimburse the party of the first part for the cost incurred for any repairs or maintenance to its roadways and structures necessary due to installation and existence of the facilities of the party of the second part, and if at any time the party of the first part shall require the removal of or changes in the location of the said facilities, that the said party of the second part binds himself, his successors and assigns, to promptly remove or alter the said facilities, in order to conform to the said requirement, without any cost to the party of the first part.

That the party of the second part agrees to provide during construction and any subsequent maintenance proper signs, signal lights, flagmen and other warning devices for the protection of traffic in conformance with the latest Manual on Uniform Traffic Control Devices for Streets and Highways and Amendments or Supplements thereto. Information as to the above rules and regulations may be obtained from the Division Engineer of the party of the first.

That the party of the second part hereby agrees to indemnify and save harmless the party of the first part from all damages and claims for damage that may arise by reason of the installation and maintenance of this encroachment.

That the party of the second part agrees to restore all areas disturbed during installation and maintenance to the satisfaction of the Division Engineer of the party of the first part. The party of the second part agrees to exercise every reasonable precaution during construction and maintenance to prevent eroding of soil; silting or pollution of rivers, streams, lakes, reservoirs, other water impoundments, ground surfaces or other property; or pollution of the air. There shall be compliance with applicable rules and regulations of the North Carolina Division of Environmental Management, North Carolina Sedimentation Control Commission, and with ordinances and regulations of various counties, municipalities and other official agencies relating to pollution prevention and control. When any installation or maintenance operation disturbs the ground surface and existing ground cover, the party of the second part agrees to remove and replace the sod or otherwise reestablish the grass cover to meet the satisfaction of the Division Engineer of the party of the first part.

That the party of the second part agrees to assume the actual cost of any inspection of the work considered to be necessary by the Division Engineer of the party of the first part.

That the party of the second part agrees to have available at the construction site, at all times during construction, a copy of this agreement showing evidence of approval by the party of the first part. The party of the first part reserves the right to stop all work unless evidence of approval can be shown.

Provided the work contained in this agreement is being performed on a completed highway open to traffic; the party of the second part agrees to give written notice to the Division Engineer of the party of the first part when all work contained herein has been completed. Unless specifically requested by the party of the first part, written notice of completion of work on highway projects under construction will not be required.

That in the case of noncompliance with the terms of this agreement by the party of the second part, the party of the first part reserves the right to stop all work until the facility has been brought into compliance or removed from the right of way at no cost to the party of the first part.

That it is agreed by both parties that this agreement shall become void if actual construction of the work contemplated herein is not begun within one (1) year from the date of authorization by the party of the first part unless written waiver is secured by the party of the second part from the party of the first part.

During the performance of this contract, the second party, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor"), agrees as follows:

- a. Compliance with Regulations: The contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the U. S. Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- b. Nondiscrimination: The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.
- c. Solicitations for Subcontracts, including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.
- d. Information and Reports: The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Department of Transportation or the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the Department of Transportation, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.
- e. Sanctions for Noncompliance: In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the Department of Transportation shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to.
  - (1) withholding of payments to the contractor under the contract until the contractor complies, and/or
  - (2) cancellation, termination or suspension of the contract, in whole or in part.
- f. Incorporation of Provisions: The contractor shall include the provisions of paragraphs "a" through "f" in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Department of Transportation or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Department of Transportation to enter into such litigation to protect the interests of the State, and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

That when title to the subject that constitutes the aforesaid encroachment passes from the party of the second part and vests in the party of the third part, the party of the third part agrees to assume all responsibilities and rights and to perform all obligations as agreed to herein by the party of the second part.

R/W (166) : Party of the Second Part certifies that this agreement is true and accurate copy of the form R/W (166) incorporating all revisions to date.

IN WITNESS WHEREOF, each of the parties to this agreement has caused the same to be executed the day and year first above written.

DEPARTMENT OF TRANSPORTATION

BY: \_\_\_\_\_  
FOR DIVISION ENGINEER

WITNESS:

Brian Holder  
B  
8816 Six Forks Rd. Ste 201  
Raleigh, NC 27615

RIVERQUEST REALTY ASSOCIATES, LLC  
JAMAR LAINES  
8816 Six Forks Rd. Ste 201  
Raleigh NC 27615  
 Second Party

WITNESS:

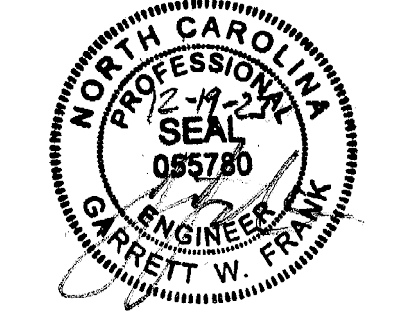
DocuSigned by:  
  
 48A968CF29FA44B...

City Clerk or designee Cassidy Pritchard  
City of Raleigh

DocuSigned by:  
  
 B20E6A8ECFEC433...

Paul Kallam, Director of Transportation  
City of Raleigh

Third Party



MA-22-09 CONDITIONS OF APPROVAL:

- 1. DEVELOPMENT OF THE PROPERTY SHALL BE IN SUBSTANTIAL CONFORMANCE WITH THE ACCOMPANYING EXHIBIT D CONCEPT PLAN. LOCATIONS SHOWN FOR COMMITTED ELEMENTS INCLUDING, BUT NOT LIMITED TO BUILDINGS, PARKING, AND STORMWATER CONTROL MEASURES SHOWN ON EXHIBIT D, ARE CONCEPTUAL AND PROVIDED FOR ILLUSTRATION AND CONTEXT ONLY. FINAL LOCATIONS OF ELEMENTS SHALL BE DETERMINED AT SUBSEQUENT STAGES OF APPROVAL. SUBJECT TO APPROVAL BY THE TOWN OF ROLESVILLE, THE VEGETATION IN THE AREA THAT EXTENDS AT LEAST 55 (55') FEET FROM THE PROPERTY LINE ABUTTING PINS 1850604353, 1850605343, 1850606333, 1850607323, AND 1850608313 EXISTING AT THE TIME OF SITE DEVELOPMENT PLAN APPLICATION SUBMISSION SHALL NOT BE DISTURBED AND SHALL BE INCLUDED IN THE BUFFER OTHERWISE REQUIRED BY THE LDO (THE "UNDISTURBED VEGETATION AREA"). THIS SHALL EXCLUDE MINOR ENCROACHMENTS FOR SITE DESIGN FEATURES, SUCH AS DRAINAGE AREAS OR PIPES AND UTILITY EASEMENTS. 2. ALL EXTERIOR LIGHT FIXTURES SHALL BE FULL CUTOFF FIXTURES, EXCEEDING THE MINIMUM STANDARD OF "CUTOFF FIXTURES" AS REQUIRED BY LDO § 6.6.G.2. 3. IF THE EXISTING VEGETATION IS REMOVED IN THE BUFFER AREA OTHERWISE REQUIRED BY THE LDO ON THE PROPERTY LINE ABUTTING PIN 1850700632 AND EXTENDING FROM THE UNDISTURBED VEGETATION AREA TO THE RIGHT-OF-WAY ON JONES DAIRY ROAD, THE FOLLOWING ADDITIONAL VEGETATION SHALL BE PROVIDED IN THE REQUIRED BUFFER OR WITHIN 5 (5') FEET OF ANY PERIMETER EASEMENT THAT WOULD PREVENT SUCH PLANTINGS: FAST-GROWING DENSE EVERGREEN TREES 15-FT ON CENTER, THE EVERGREEN TREES SHALL HAVE A MINIMUM MATURE HEIGHT OF 30-FT AND A SPREAD OF 12-FT. INSTALL HEIGHT SHALL BE 4-FT MINIMUM. 4. AT LEAST SEVENTY-FIVE PERCENT (75%) OF ANY REQUIRED PLANTS IN THE STORMWATER CONTROL MEASURE POND, EXCLUDING GRASSES, SHALL BE POLLINATOR PLANTS SUCH AS NATIVE MILKWEEDS AND OTHER NECTAR-RICH FLOWERS. 5. GATES TO ACCESS AREAS WITH EXTERIOR-ACCESS STORAGE UNITS SHALL BE LOCKED BETWEEN 10PM AND 6AM. 6. ON EXTERIOR FACADES FACING A PUBLIC RIGHT-OF-WAY OR EXTERIOR FACADES FACING PINS 1850700632, 1850604353, 1850605343, 1850606333, 1850607323, AND 1850608313: 7.1. THE FOLLOWING MATERIALS ARE PROHIBITED: CINDERBLOCK, CONCRETE, METAL SIDING, AND VINYL SIDING; AND 7.2. BRICK, EIFS BRICK, STONE, OR CONCRETE MASONRY COMPONENTS SHALL BE A MINIMUM OF 10%.

SITE PLAN REVIEW DRAWINGS: FOR JONES DAIRY STORAGE FACILITY

1200 JONES DAIRY RD ROLESVILLE, NC 27587

SITE PLAN#: SDP-23-03 REZONING CASE #: MA-22-09 TEXT AMENDMENT CASE #: TA-22-02

APPROVED TA-22-02:

- 1. 5.1.6.D.5.b. - 'INDUSTRIAL, LIGHT' PRINCIPAL USE - SELF-SERVICE STORAGE SHALL BE CONTAINED WITHIN A FULLY ENCLOSED BUILDING AND CONTAINED IN A SINGLE BUILDING. ACCESS INTERNALLY, EXCEPT IN THE GENERAL INDUSTRIAL DISTRICT NOT LOCATED ON N MAIN ST OR S MAIN ST. 2. 5.1.6.I.4. - 'WAREHOUSING' PRINCIPAL USE - EXAMPLES. INCLUDES WAREHOUSES AND MINI-WAREHOUSES.

APPROVED ALTERNATE PARKING PLAN CONDITIONS:

- 1. 1 PARKING SPACE PER 100 SELF-STORAGE UNITS. 2. PARKING PERMITTED BETWEEN A PROPOSED BUILDING AND THE STREET FRONTAGE.

ATTENTION CONTRACTORS

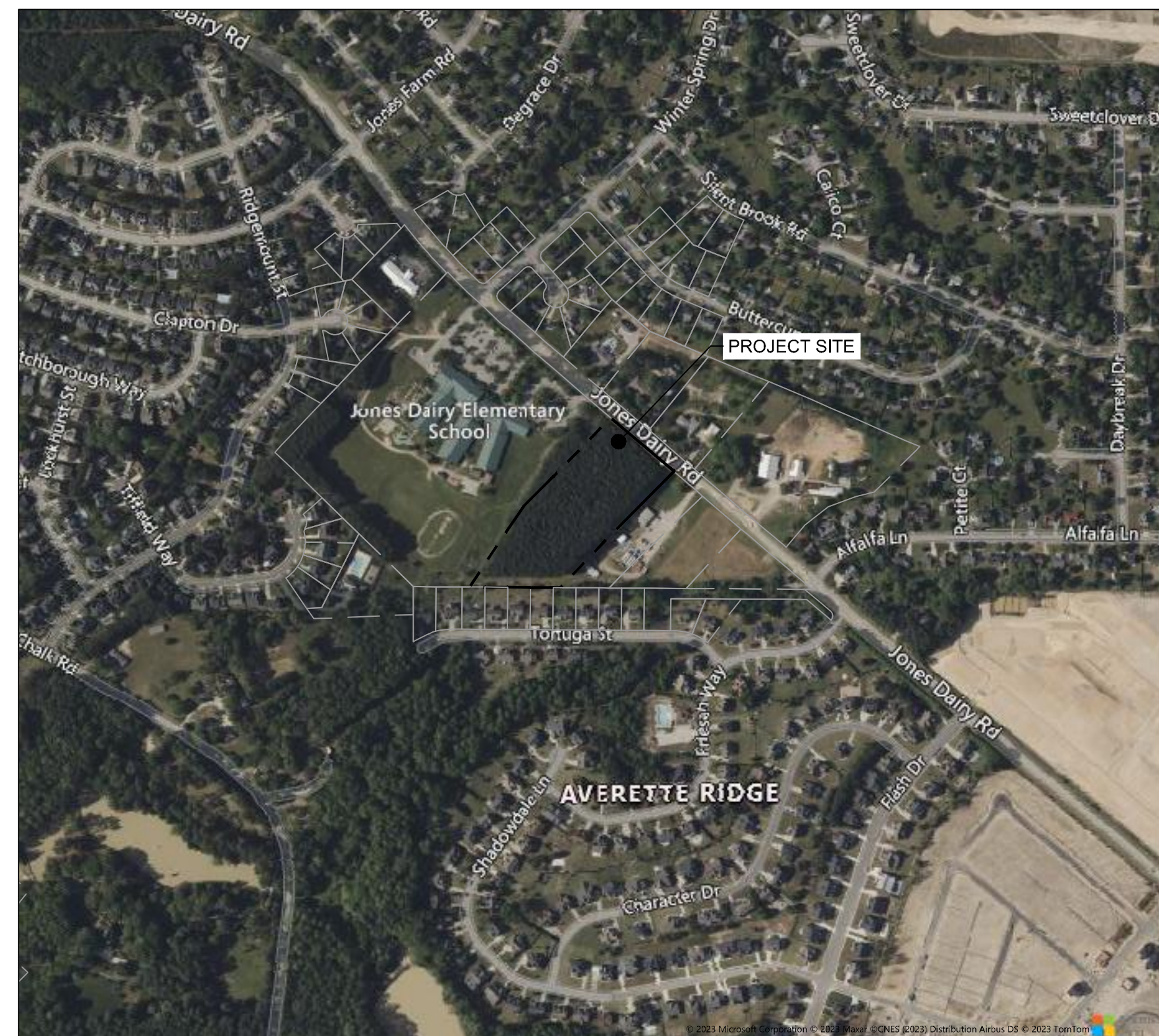
The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for inspection, install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

SITE DATA TABLE

Table with 2 columns: Field Name and Value. Includes Project Name, Site Plan Number, Property Owner, Real Estate ID, PIN, Deed Acres, Property Address, Property Zoning, Current Use, Proposed Use, Disturbed Area, Current Impervious, Proposed Impervious, Tree Save Summary, Parking Summary, ADA Parking Summary, Building Height, Building Square Footage, Number of Storage Units, Building/Structure Setbacks, Landscape Buffers, Watershed, River Basin, and Surface Water Classification.



VICINITY MAP SCALE 1"=500'

PROJECT TEAM

LAND OWNER

CONTACT: ROLESVILLE (LOCKBOX) LLC 8816 SIX FORKS ROAD, SUITE 201 RALEIGH NC, 27615

DEVELOPER

RIVERCREST REALTY INVESTORS CONTACT: BRIAN HOLDER PHONE: (919) 846-4046 8816 SIX FORKS ROAD, SUITE 201 RALEIGH, NC 27615

CIVIL ENGINEER

TIMMONS GROUP CONTACT: GARRETT FRANK, PE, PLA PHONE: (919) 866-4503 5410 TRINITY ROAD, SUITE 102 RALEIGH, NC 27607

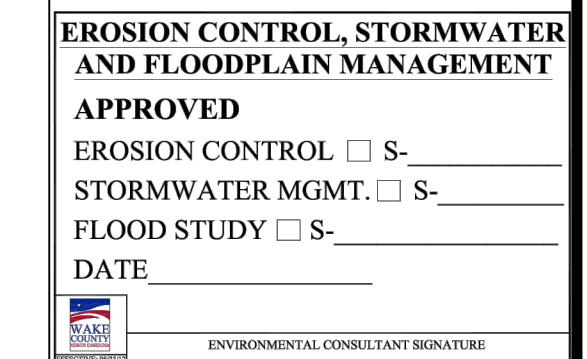
Sheet List Table

Table with 3 columns: Sheet Number, Sheet Title, Sheet Number. Lists sheets C0.0 through C6.10 including Cover, Overall Site Plan, Existing Conditions, Site Plan, Routing Plans, Grading, Spot Elevation, Storm Sewer Profiles, SCM Plan, and Site Details.

Sheet List Table

Table with 3 columns: Sheet Number, Sheet Title, Sheet Number. Lists sheets C7.0 through C7.9 including Road Widening, Grading, Cross Sections, and Driveway Stem Profile.

KEEP THESE TWO IN THE SET.



CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF RALEIGH REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

Public Sewer Collection / Extension System. City of Raleigh, Public Utilities Department Permit # S-5375. Authorization to Construct. Date.

CITY OF RALEIGH DEVELOPMENT APPROVAL RALEIGH WATER REVIEW OFFICER

TIMMONS GROUP . . . . . JONES DAIRY STORAGE FACILITY TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA COVER

JOB NO. 54832 SHEET NO. C0.0

THIS DRAWING PREPARED AT THE RALEIGH OFFICE 5410 Trinity Road, Suite 102 | Raleigh, NC 27607 TEL 919.866.4951 FAX 919.866.4824 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

Table with 2 columns: DATE and DESCRIPTION. Shows revision dates and descriptions for the drawing.

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**TRAFFIC CONTROL NOTES**

- ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
- PAVEMENT MARKINGS WITHIN RIGHT-OF-WAY SHALL BE THERMOPLASTIC. PAVEMENT MARKINGS ON SITE SHALL BE 2-COATS ALKYD RESIN PAINT.
- ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
- ALL SIGNAGE SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING.
- SIGNS SHALL BE FABRICATED FROM ALUMINUM ALLOY SHEETS.
- ALL MOUNTING HARDWARE SHALL BE GALVANIZED.
- "VAPS" ON PLANS DENOTES VAN ACCESSIBLE PARKING SIGN. INSTALL R7-8A, R7-8D, & R7-8P.
- "APS" ON PLANS DENOTES ACCESSIBLE PARKING SIGN. INSTALL R7-8A & R7-8D ONLY.

**STRIPING KEY NOTES**

	NCDOT STD.	WIDTH	COLOR
(11) C6.0			WHITE
(1) C6.2	1205.07 (STD)	4-IN	WHITE
(7) C6.2			WHITE
(9) C6.2	1205.08		WHITE
(10) C6.2	1205.01	4-IN	YELLOW
(E) -	1205.01	24-IN	WHITE

**SIGNAGE KEY NOTES**

	MUTCD
(2) C6.2	R1-1 (PER PLAN & DETAIL)
(3) C6.2	R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)
(M) -	

**SITE LAYOUT NOTES**

- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE ROLESVILLE, WAKE COUNTY, NCDOT AND OSHA STANDARDS AND SPECIFICATIONS.
- ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, BUILDING WALL FACE OR PROPERTY LINE, UNLESS OTHERWISE NOTED.
- ALL RADII ARE DIMENSIONED FROM BACK OF CURB. IF NOT STATED, RADII DIMENSION IS 5'.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, UTILITIES AND GRADES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING ANY RELATED CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
- AT LEAST 72 HOURS PRIOR TO CONSTRUCTION OR EXCAVATION THE CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) TO HAVE EXISTING UTILITIES LOCATED. ALL PRIVATE UTILITIES SHALL BE LOCATED AS NEEDED BY A PRIVATE UTILITY LOCATE COMPANY EMPLOYED BY THE CONTRACTOR.
- ALL CURB AND GUTTER OFFSITE SHALL BE 30" WIDE UNLESS NOTED OTHERWISE.
- ALL DISTURBED CURB & GUTTER AND ASPHALT SHALL BE REPLACED PER PROJECT DETAILS AND NCDOT STANDARDS AND SPECIFICATIONS.
- RAISE ALL STRUCTURES AT NO ADDITIONAL COST TO THE OWNER SO THAT THE TOP OF THE STRUCTURE EQUALS THE FINISH GRADE OF THE NEW ASPHALT.
- COORDINATE THE PROJECT SCHEDULE WITH THE CIVIL ENGINEER AND OWNER. ANY UTILITY INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER AT LEAST 72 HOURS PRIOR TO THE INTERRUPTION.
- PROVIDE A SMOOTH TRANSITION BETWEEN NEW ASPHALT AND EXISTING ASPHALT SURFACES.
- ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK. NOTIFY ENGINEER IF THIS CANNOT BE ACHIEVED.

**KEY NOTES**

- (1) C6.0 ACCESSIBLE CURB RAMP
- (2) C6.0 STANDARD DUTY CONCRETE PAVEMENT
- (3) C6.0 HEAVY DUTY CONCRETE PAVEMENT
- (4) C6.0 STANDARD DUTY ASPHALT PAVEMENT
- (5) C6.0 LIGHT DUTY ASPHALT PAVEMENT
- (6) C6.0 NCDOT ASPHALT (FULL DEPTH)
- (7) C6.0 NCDOT OVERLAY
- (8) C6.0 ASPHALT MULTI-USE PATH
- (9) C6.0 NCDOT 30" CONCRETE CURB & GUTTER
- (10) C6.0 CURB ENDING TAPER
- (1) C6.1 ORNAMENTAL FENCE
- (2) C6.1 ORNAMENTAL FENCE PRIVACY SLATS
- (3) C6.1 ORNAMENTAL GATES WITH ADJACENT KNOX BOX (SEE PLAN FOR GATE WIDTH)
- (4) C6.2 MODULAR RETAINING WALL
- (5) C6.2 BOLLARD TYP.
- (6) C6.2 24" CONCRETE CURB & GUTTER
- (A) - RELOCATED MAILBOX
- (B) - RELOCATE OR PROVIDE TURN DOWN GUY WIRE BAR
- (C) - 10-FT X 70-FT SIGHT TRIANGLE
- (D) - 1.5" MILL & LAP JOINT (1.5" S-9.5B)



THIS DRAWING PREPARED AT THE  
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DATE	REVISION DESCRIPTION
06/07/2023	ADDRESSED TOWN OF ROLESVILLE COMMENTS
08/07/2023	ADDRESSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS
11/07/2023	ADDRESSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS

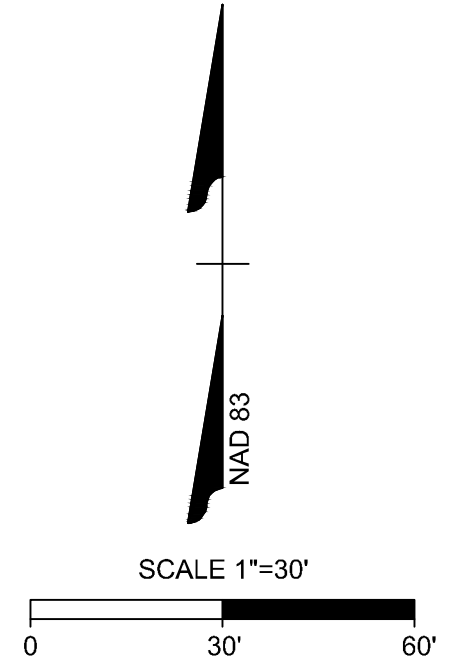
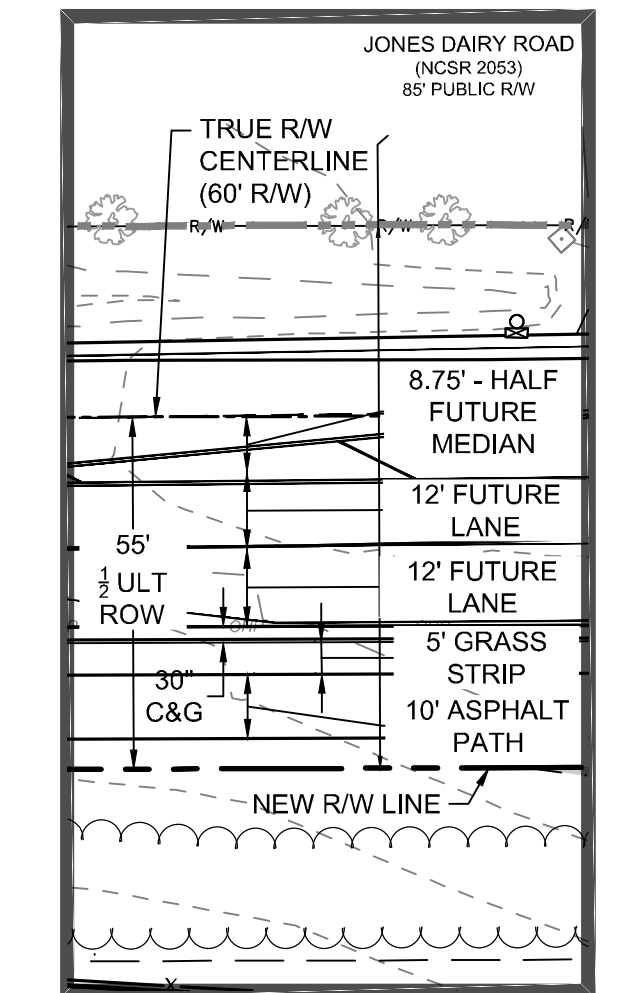
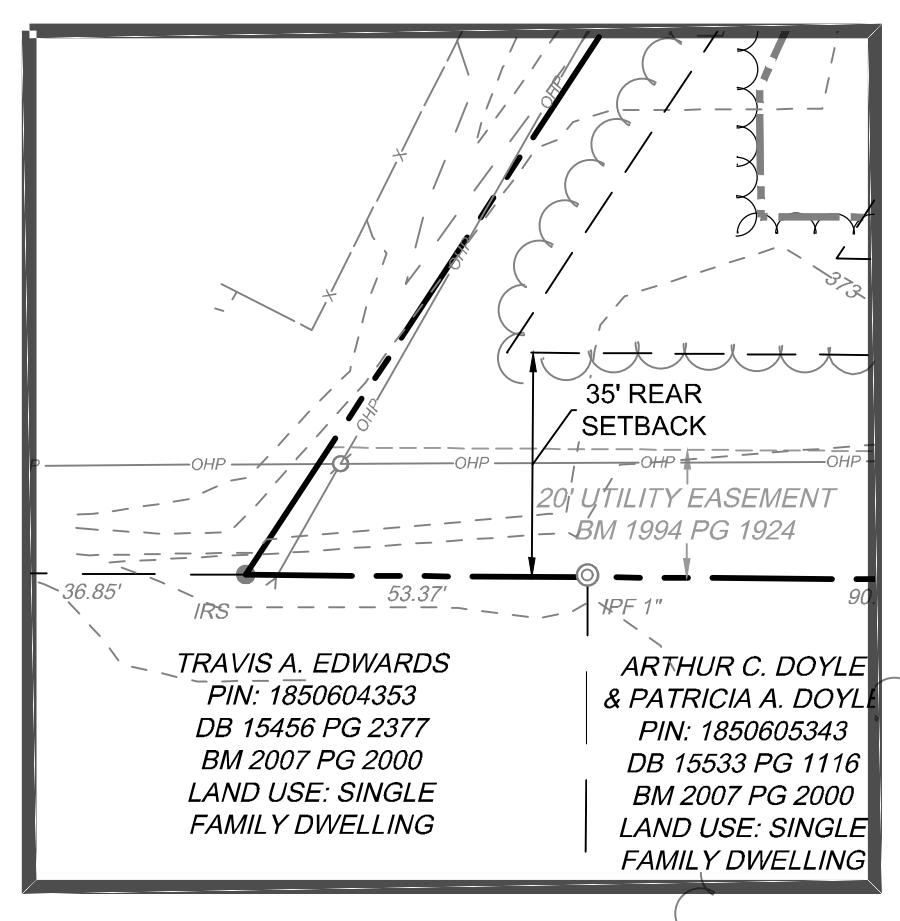
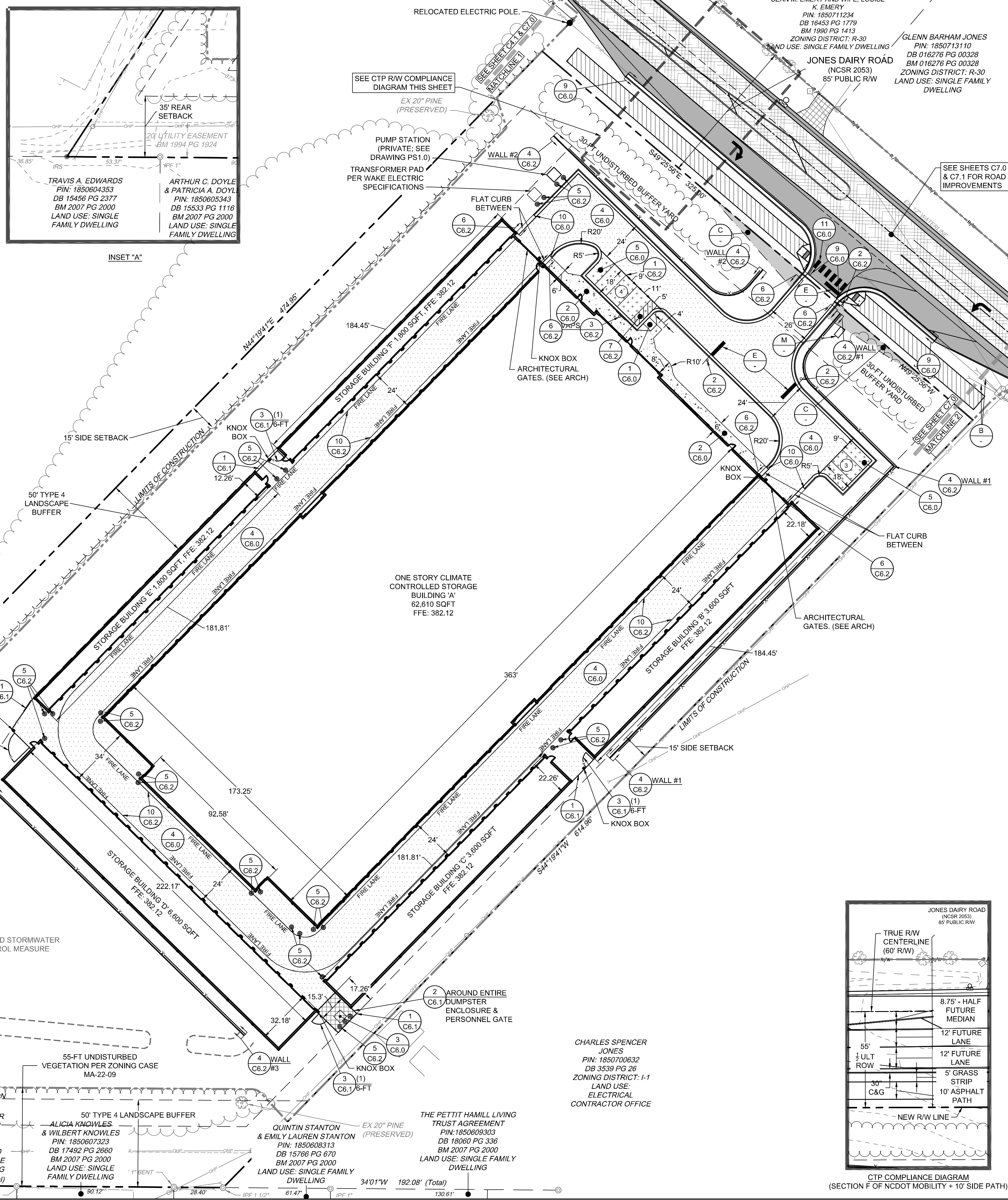
DATE: 04/05/2023  
 DRAWN BY: L. BARNES  
 DESIGNED BY: G. FRANK  
 CHECKED BY: G. FRANK  
 SCALE: AS SHOWN

**TIMMONS GROUP**  
 NORTH CAROLINA LICENSE NO. C-1652

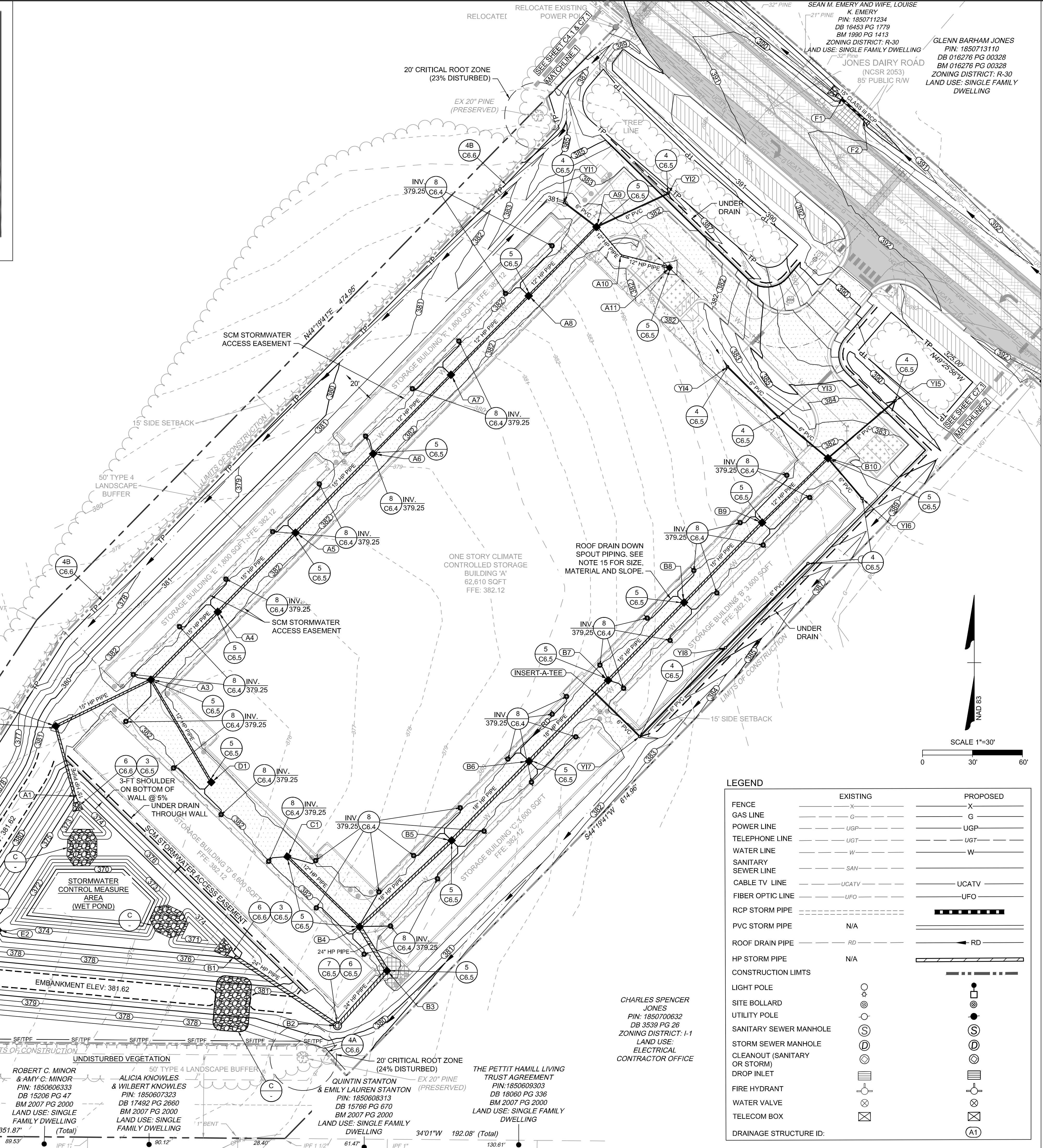
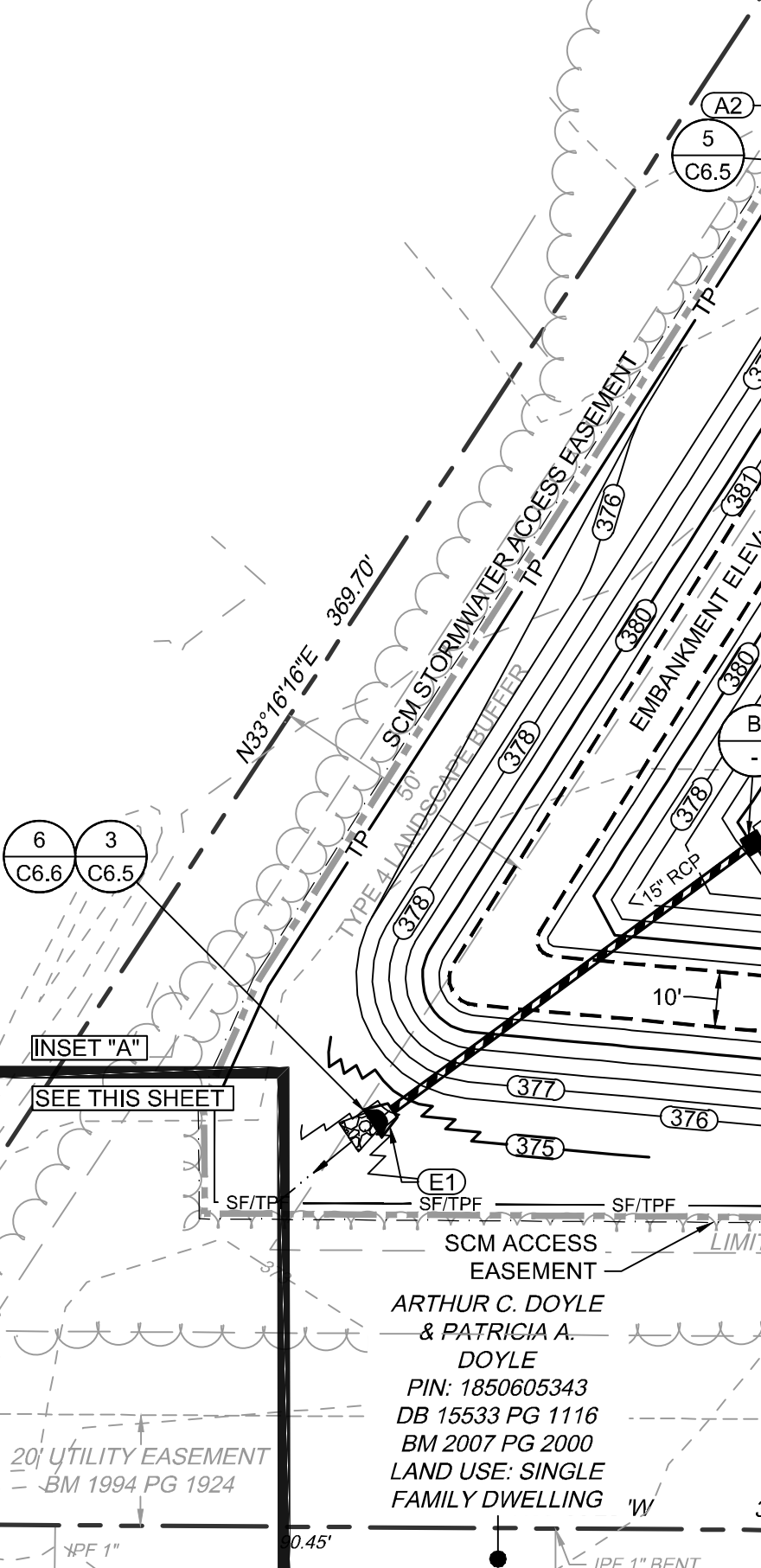
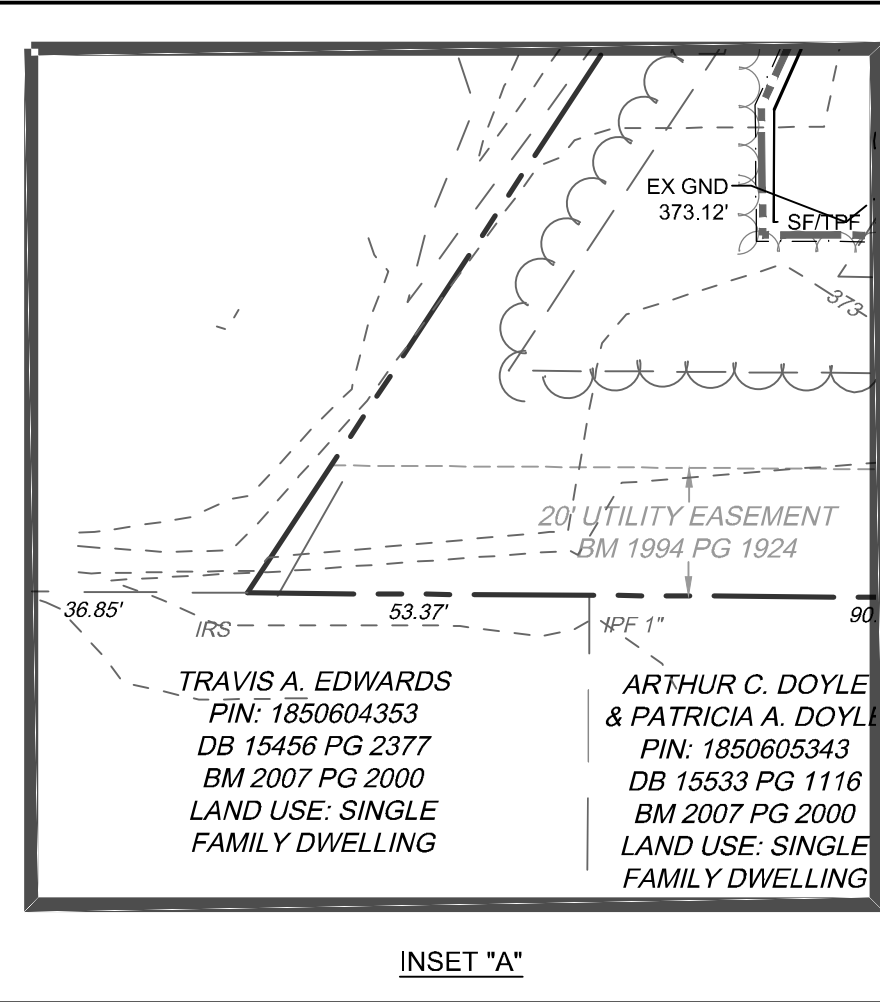
**JONES DAIRY STORAGE FACILITY**  
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

**SITE PLAN**

JOB NO. 54832  
 SHEET NO. C2.0



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- ### GRADING & DRAINAGE NOTES
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE ROLESVILLE, WAKE COUNTY, NCDOT AND OSHA STANDARDS AND SPECIFICATIONS.
  - COORDINATE THE PROJECT SCHEDULE WITH THE OWNER, AND ADJACENT USERS OF THE PROPERTY. MAINTAIN TRAFFIC FLOW AND DO NOT INTERRUPT UTILITIES AROUND THE SITE. DO NOT DISTURB OPERATIONS OF ADJACENT SITES AND FACILITIES AND/OR THEIR OWNER'S ONGOING OPERATIONS.
  - ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, VALVE BOXES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISHED GRADE.
  - ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY.
  - ALL SPOT ELEVATIONS INDICATED ARE AT TOP OF CURB UNLESS NOTED OTHERWISE.
  - SPOT GRADE ABBREVIATIONS:
    - TC: TOP OF CURB
    - EP: EDGE OF PAVEMENT
    - HP: HIGH POINT
    - SWK: SIDEWALK
    - FFE: FINISHED FLOOR ELEVATION
    - TW: TOP OF WALL
    - BW: BOTTOM OF WALL
    - FL: FLOW LINE
    - GND: GROUND
    - EX GND: EXISTING GROUND
  - SPOT ELEVATIONS ARE GIVEN AT THE MAJORITY OF THE MAJOR BREAK POINTS BUT IT SHOULD NOT BE ASSUMED THAT ALL NECESSARY SPOT ELEVATIONS ARE SHOWN. DUE TO SPACE LIMITATIONS, THERE MAY BE OTHER CRITICAL SPOTS NOT LABELED THAT SHOULD BE TAKEN INTO CONSIDERATION. THE CONTRACTOR SHALL REVIEW THE GRADING PLAN IN DETAIL AND SHALL ENSURE THAT ALL CRITICAL GRADE POINTS ARE STAKED AND FOLLOWED TO PROVIDE POSITIVE DRAINAGE.
  - ALL ELEVATIONS ARE BASED ON NC GRID NORTH (NAD 83 2011).
  - THE CONTRACTOR SHALL USE NC ONE CALL (811) TO LOCATE ALL UNDERGROUND UTILITIES. PRIVATE UTILITIES SHALL BE LOCATED BY A PRIVATE LOCATE SERVICE AT THE EXPENSE OF THE CONTRACTOR.
  - INSTALL ALL STORM SEWERS TO PROVIDE REQUIRED CLEARANCES TO CROSSING UTILITIES AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
  - PROVIDE HALF-BENCH CONCRETE INLET SHAPING FOR ALL CONCRETE STORM SEWER STRUCTURES.
  - ALL ROOF DRAINS FROM BUILDING 'A' SHALL BE 8" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. ALL ROOF DRAINS FROM BUILDING 'B', 'C', AND 'D' SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN. MATCH PIPE CROWNS WITH CONNECTION TO DROP INLET.
  - PVC ROOF DRAIN PIPING UNDER PAVEMENT SHALL HAVE 24-IN MINIMUM COVER. IF ROOF DRAIN PIPING UNDER PAVEMENT HAS LESS THAN 24-IN COVER, ROOF DRAIN PIPING SHALL BE 8" DIP (IN LIEU OF PVC).
  - JOINT FILL AND CALK EACH CONCRETE EXPANSION JOINT AND WHERE CONCRETE PAVEMENT ABUTS OTHER PAVEMENTS, SIDEWALKS, OR HARD SURFACES.
  - MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT IN ACCORDANCE WITH NCDCEQ LAND QUALITY REQUIREMENTS AND AS DIRECTED BY THE NCDCEQ AND CIVIL ENGINEER.
  - FLUSH ALL SEDIMENT OUT OF STORM DRAINAGE PIPES AND STRUCTURES FOLLOWING SITE STABILIZATION AND AT THE END OF CONSTRUCTION. FLUSH OUT PIPES AS NEEDED THROUGHOUT CONSTRUCTION TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM.
  - IN DISTURBED AREAS, AMEND THE TOP 6 INCHES OF LAWN AREAS WITH TOPSOIL FROM THE SITE.
  - ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK.
  - IF CONTRACTOR NOTICES ANY DISCREPANCIES IN ANY OF THESE SLOPE REQUIREMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER & ENGINEER PRIOR TO POURING ANY CONCRETE. PRIOR TO FINAL PROJECT ACCEPTANCE, PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY SYSTEMS AND STORM SEWERS.
  - ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR USING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

- ### KEY NOTES
- 8 C6.4 DOWNSPOUT BOOT CONNECTOR
  - 1 C6.5 STORM SEWER CLEANOUT
  - 2 C6.5 STORM DRAINAGE TRENCHES
  - 3 C6.5 FLARED END SECTION
  - 4 C6.5 YARD INLET
  - 5 C6.5 CONCRETE DROP INLET
  - 6 C6.5 STORM SEWER MANHOLE
  - 7 C6.5 STORM SEWER MANHOLE COVER
  - 4A C6.6 SILT FENCE (COMBINATION FENCE; SEE TREE FENCE DETAIL; SEE EROSION CONTROL PLAN)
  - 4B C6.6 TREE PROTECTION FENCE (SEE EROSION CONTROL PLAN)
  - 6 C6.6 RIP RAP OUTLET PROTECTION (SEE EROSION CONTROL PLAN)
  - A PROVIDE SMOOTH PAVING TRANSITION
  - B CONCRETE RISER STRUCTURE (SEE SHEET C3.3)
  - C CLASS B RIP RAP. SEE SCM DETAIL SHEETS.

### LEGEND

	EXISTING	PROPOSED
FENCE	- - - - -	- - - - -
GAS LINE	- - - - -	- - - - -
POWER LINE	- - - - -	- - - - -
TELEPHONE LINE	- - - - -	- - - - -
WATER LINE	- - - - -	- - - - -
SANITARY SEWER LINE	- - - - -	- - - - -
CABLE TV LINE	- - - - -	- - - - -
FIBER OPTIC LINE	- - - - -	- - - - -
RCP STORM PIPE	- - - - -	- - - - -
PVC STORM PIPE	- - - - -	- - - - -
ROOF DRAIN PIPE	- - - - -	- - - - -
HP STORM PIPE	- - - - -	- - - - -
CONSTRUCTION LIMITS	- - - - -	- - - - -
LIGHT POLE	○	○
SITE BOLLARD	●	●
UTILITY POLE	○	○
SANITARY SEWER MANHOLE	⊙	⊙
STORM SEWER MANHOLE CLEANOUT (SANITARY OR STORM)	⊙	⊙
DROP INLET	⊙	⊙
FIRE HYDRANT	⊙	⊙
WATER VALVE	⊙	⊙
TELECOM BOX	⊙	⊙
DRAINAGE STRUCTURE ID:	○	○

# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

## JONES DAIRY STORAGE FACILITY

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

### GRADING & DRAINAGE PLAN

THIS DRAWING PREPARED AT THE  
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DATE	DRAWN BY
04/05/2023	L. BARNES

DATE	DESIGNED BY
	G. FRANK

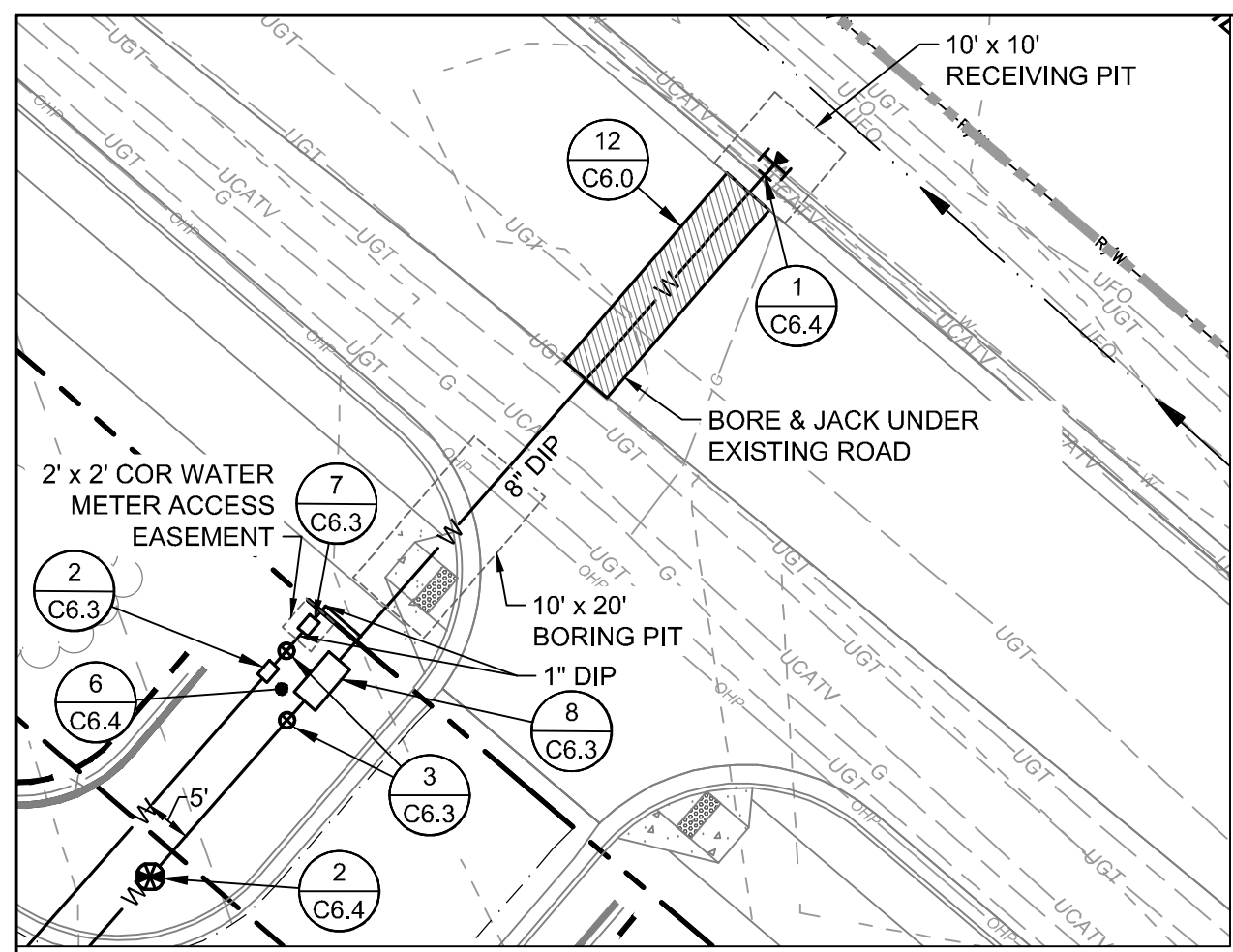
DATE	CHECKED BY
	G. FRANK

DATE	SCALE
	AS SHOWN

JOB NO.  
**54832**

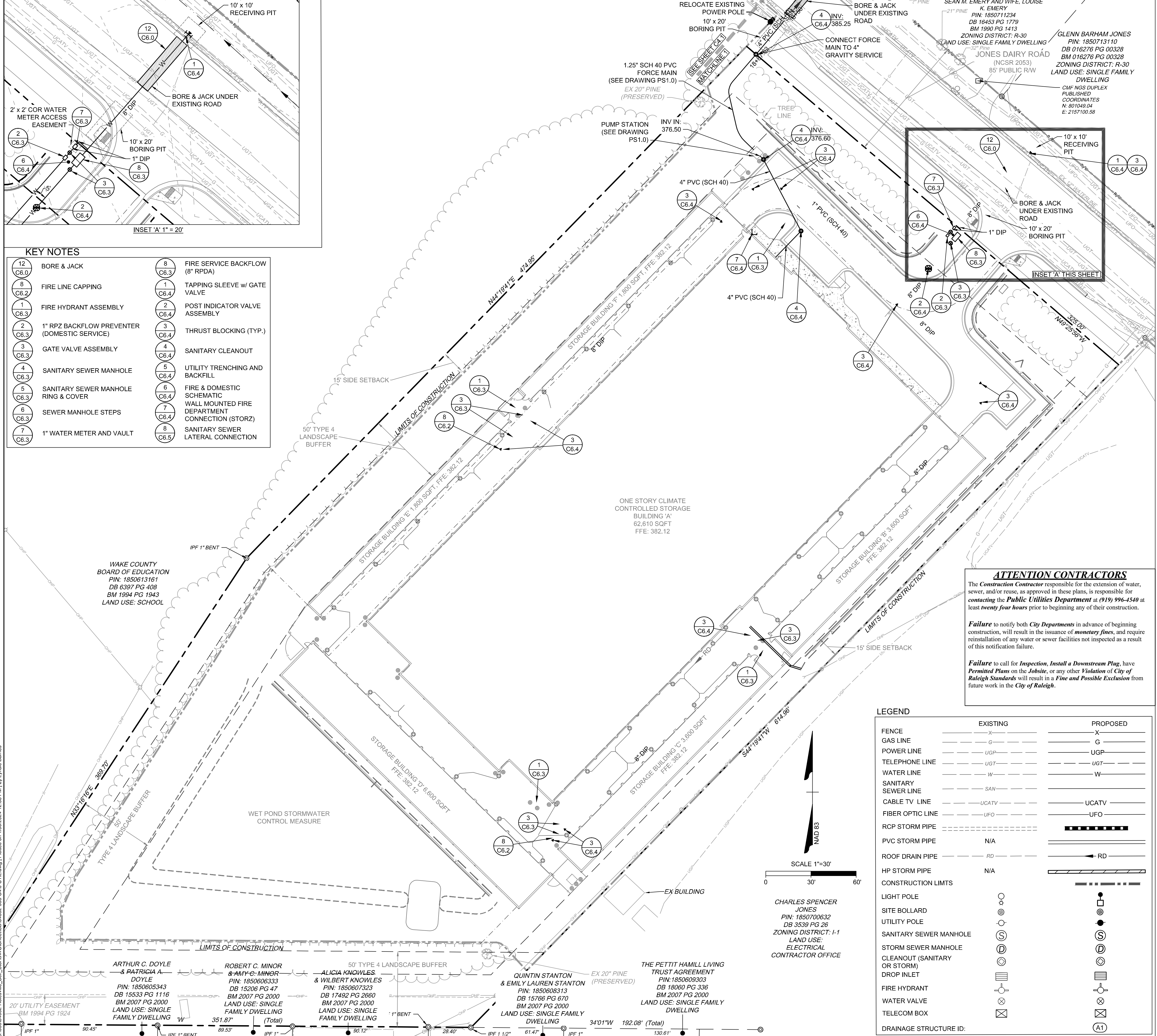
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**C3.0**

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**KEY NOTES**

12 C6.0	BORE & JACK	8 C6.3	FIRE SERVICE BACKFLOW (8" RPDA)
8 C6.2	FIRE LINE CAPPING	1 C6.4	TAPPING SLEEVE w/ GATE VALVE
1 C6.3	FIRE HYDRANT ASSEMBLY	2 C6.4	POST INDICATOR VALVE ASSEMBLY
2 C6.3	1" RPZ BACKFLOW PREVENTER (DOMESTIC SERVICE)	3 C6.4	THRUST BLOCKING (TYP.)
3 C6.3	GATE VALVE ASSEMBLY	4 C6.4	SANITARY CLEANOUT
4 C6.3	SANITARY SEWER MANHOLE	5 C6.4	UTILITY TRENCHING AND BACKFILL
5 C6.3	SANITARY SEWER MANHOLE RING & COVER	6 C6.4	FIRE & DOMESTIC SCHEMATIC WALL MOUNTED FIRE DEPARTMENT CONNECTION (STORZ)
6 C6.3	SEWER MANHOLE STEPS	7 C6.4	SANITARY SEWER LATERAL CONNECTION
7 C6.3	1" WATER METER AND VAULT	8 C6.5	



**CITY OF RALEIGH UTILITY NOTES**

- ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
- UTILITY SEPARATION REQUIREMENTS:
  - A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL
  - WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER
  - WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS
  - 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER
  - MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49)
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**LEGEND**

	EXISTING	PROPOSED
FENCE	-X-	-X-
GAS LINE	-G-	-G-
POWER LINE	-UGP-	-UGP-
TELEPHONE LINE	-UGT-	-UGT-
WATER LINE	-W-	-W-
SANITARY SEWER LINE	-SAN-	-SAN-
CABLE TV LINE	-UCATV-	-UCATV-
FIBER OPTIC LINE	-UFO-	-UFO-
RCP STORM PIPE	-RCP-	-RCP-
PVC STORM PIPE	-N/A-	-N/A-
ROOF DRAIN PIPE	-RD-	-RD-
HP STORM PIPE	-N/A-	-N/A-
CONSTRUCTION LIMITS	-DASHED-	-DASHED-
LIGHT POLE	○	○
SITE BOLLARD	⊙	⊙
UTILITY POLE	○	○
SANITARY SEWER MANHOLE	⊙	⊙
STORM SEWER MANHOLE	⊙	⊙
CLEANOUT (SANITARY OR STORM)	⊙	⊙
DROP INLET	⊙	⊙
FIRE HYDRANT	⊙	⊙
WATER VALVE	⊙	⊙
TELECOM BOX	⊙	⊙
DRAINAGE STRUCTURE ID:	⊙	⊙

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 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**SITE UTILITY PLAN**

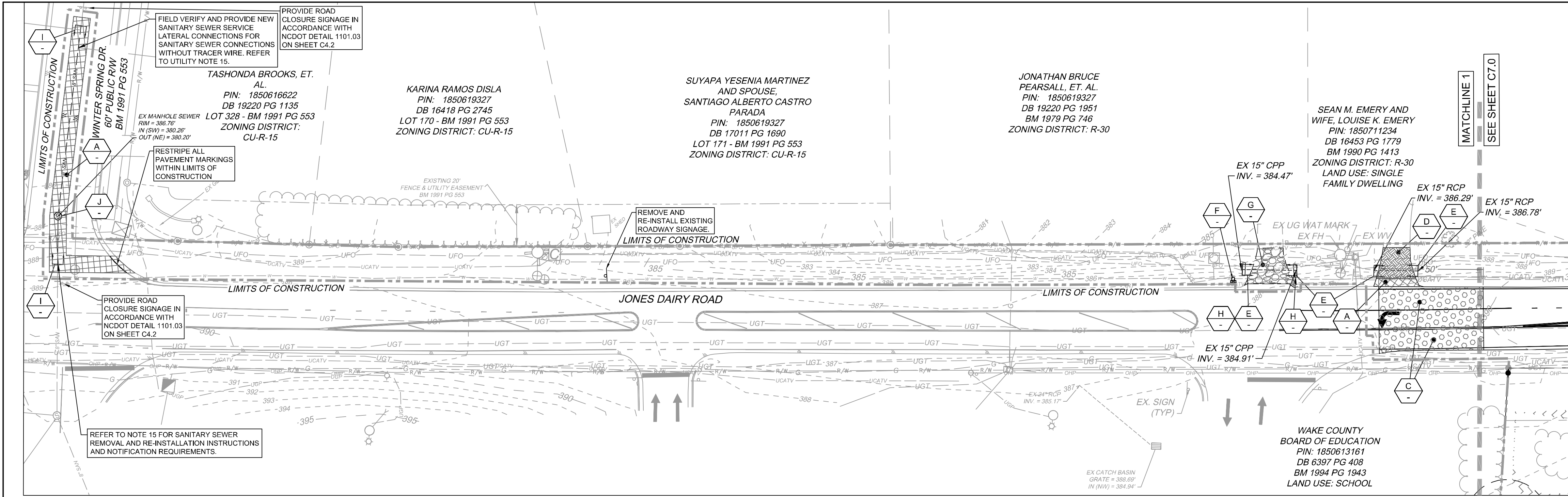
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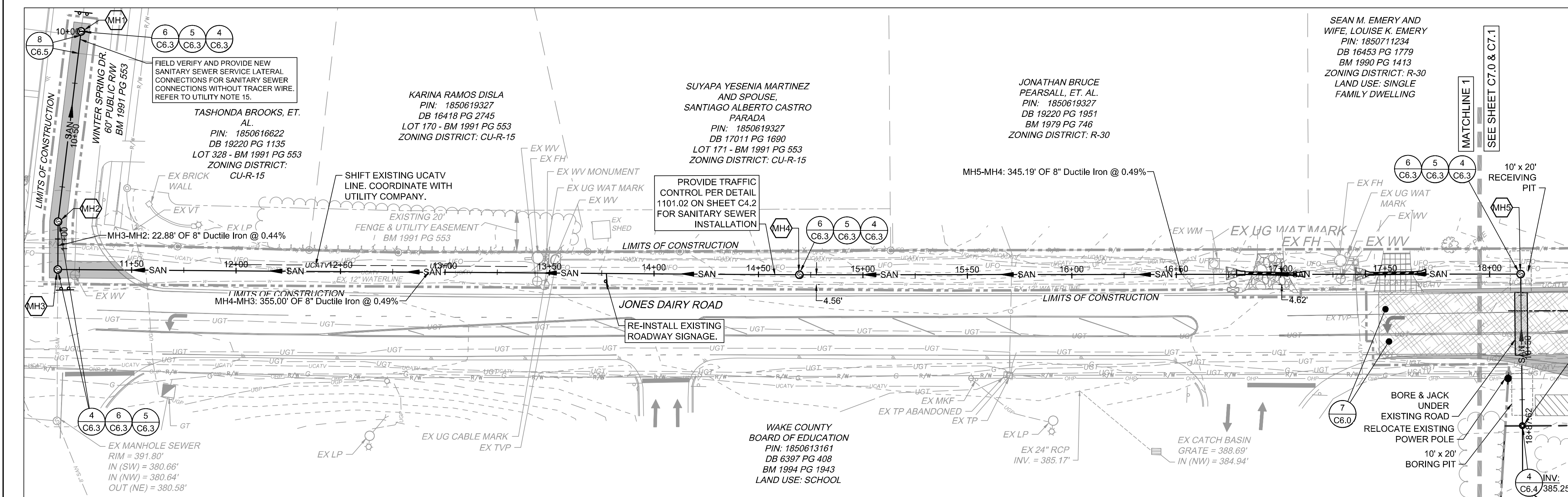
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JOB NO. 54832  
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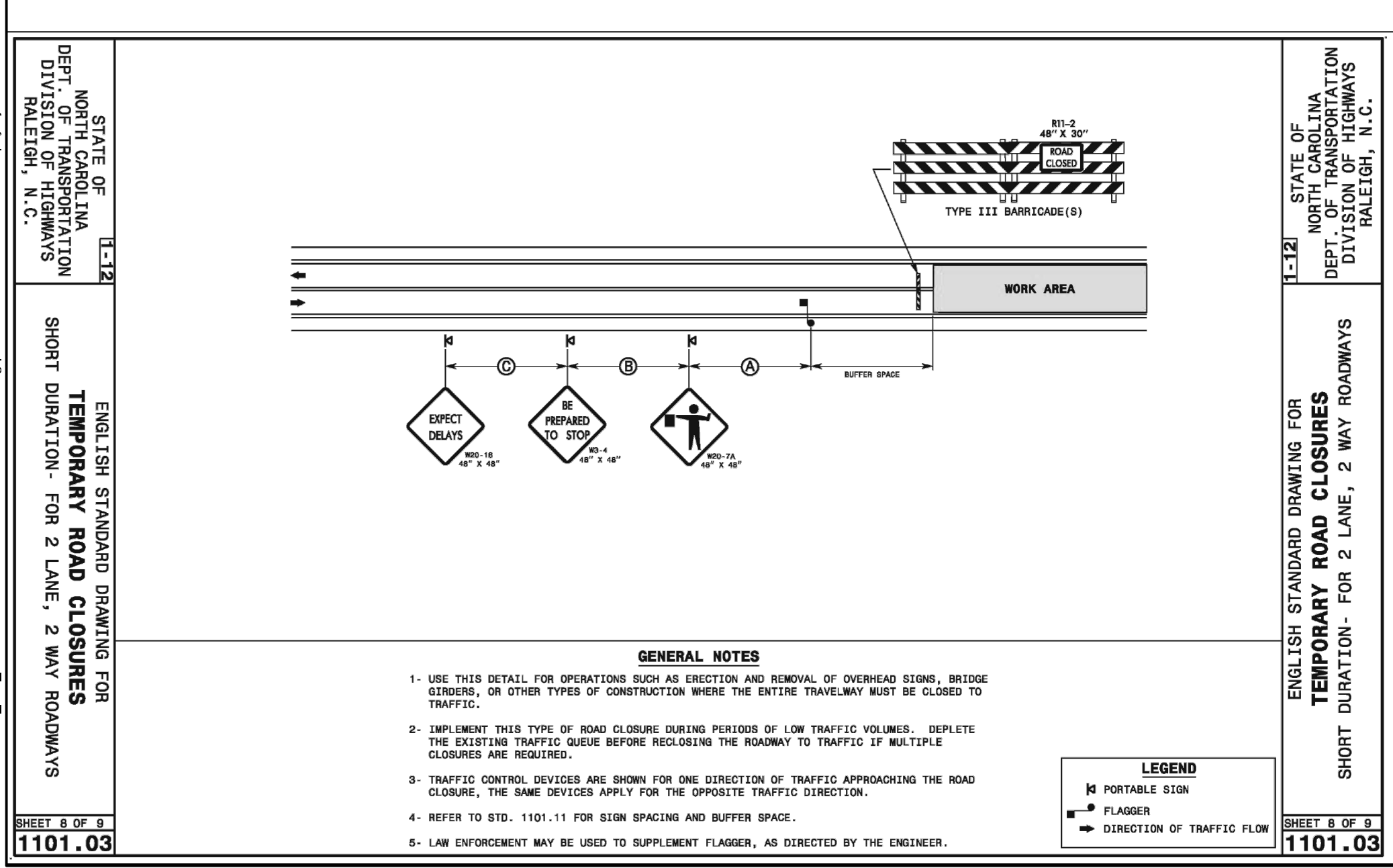
PLAN VIEW 1 - EX CONDITIONS & DEMOLITION



PLAN VIEW 2 - SITE & UTILITY PLAN

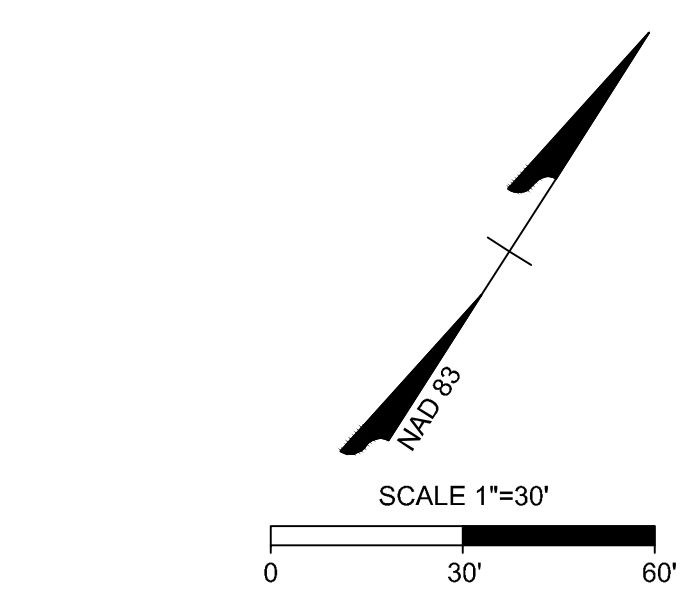
CITY OF RALEIGH UTILITY NOTES

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KEY NOTES

A	REMOVE ASPHALT PAVEMENT AND STONE BASE	2	STANDARD DUTY CONCRETE PAVEMENT
B	50-FT MILL TAPER FROM 0" - 1.5" (SEE C7.0)	6	NCDOT ASPHALT (FULL DEPTH)
C	SAW CUT AND REMOVE CONCRETE AT NEAREST JOINT.	7	NCDOT OVERLAY
D	REMOVE AND REPLACE EXISTING CULVERT	4	SANITARY SEWER MANHOLE
E	REMOVE & REINSTALL MAIL BOX AFTER UTILITY INSTALLATION	5	SANITARY SEWER MANHOLE RING & COVER
F	REMOVE EXISTING GRAVEL	6	SEWER MANHOLE STEPS
G	REMOVE EXISTING HEADWALL	4	SANITARY CLEANOUT
H	REMOVE SANITARY SEWER PIPE	5	UTILITY TRENCHING AND BACKFILL
I	REMOVE SANITARY SEWER STRUCTURE	8	SANITARY SEWER LATERAL CONNECTION



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 OFF-SITE UTILITY PLAN

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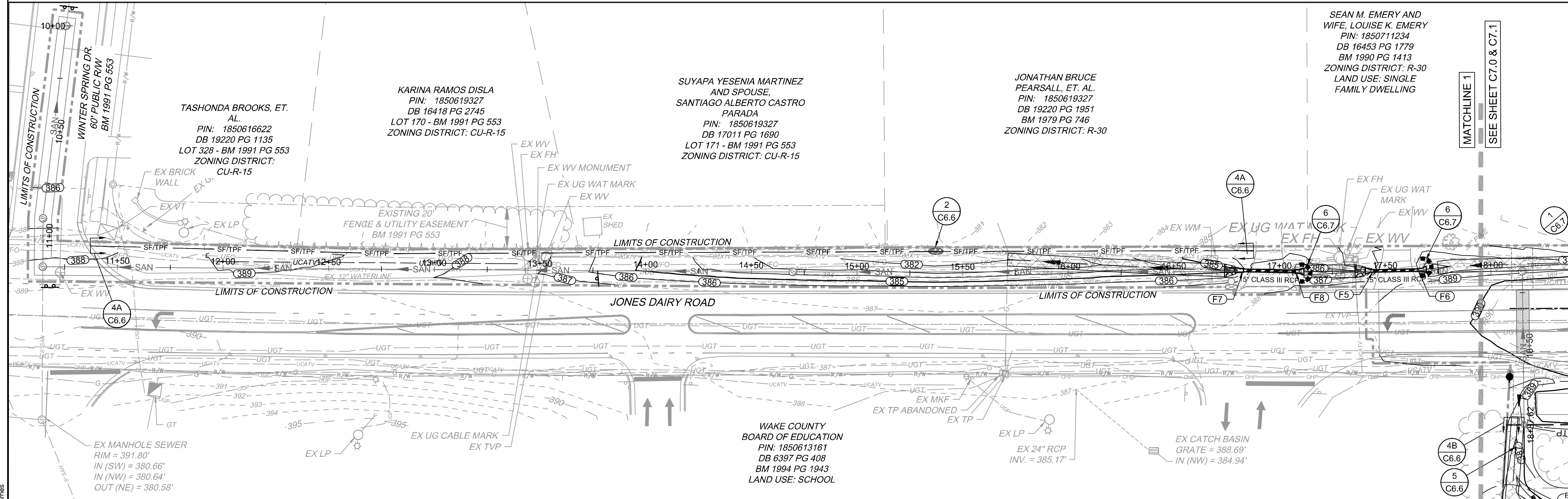
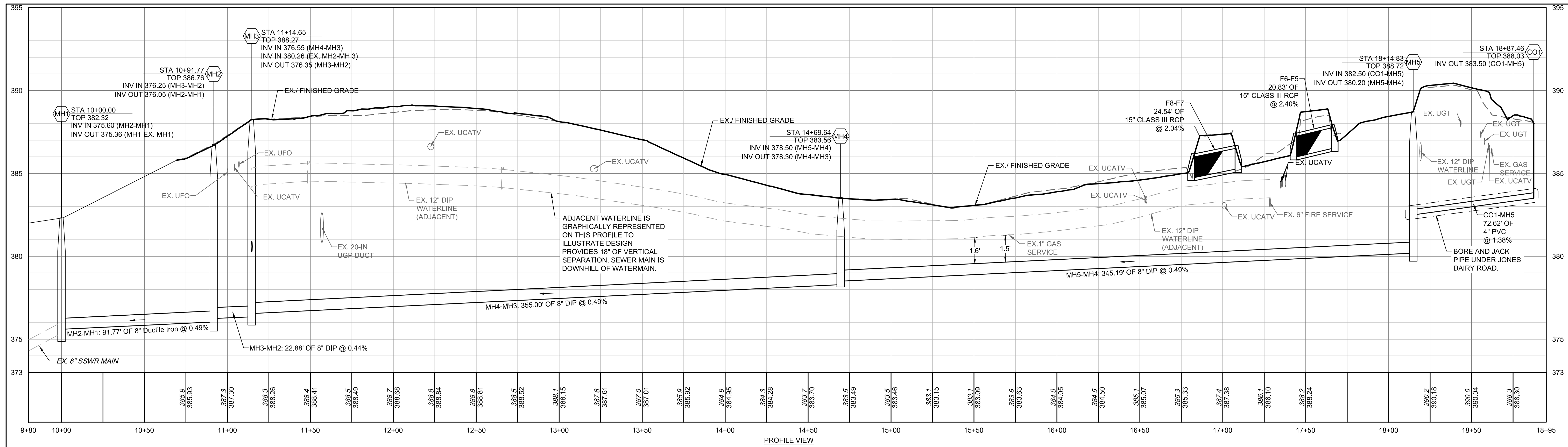
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YOUR VISION ACHIEVED THROUGH OURS.

DATE	DRAWN BY
04/05/2023	L. BARNES

DESIGNED BY	CHECKED BY	SCALE
G. FRANK	G. FRANK	AS SHOWN

JOB NO. 54832  
 SHEET NO. C4.1

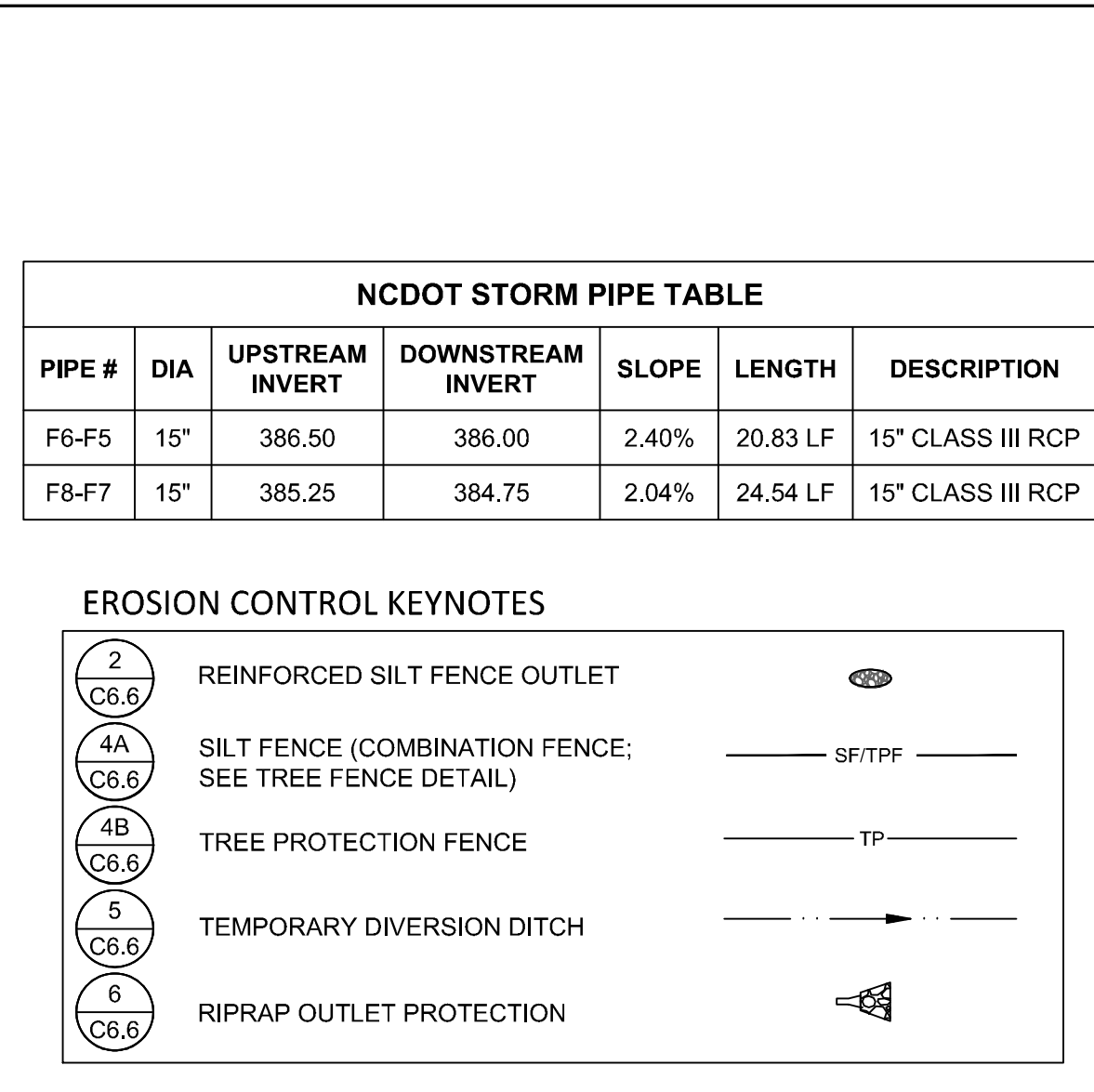
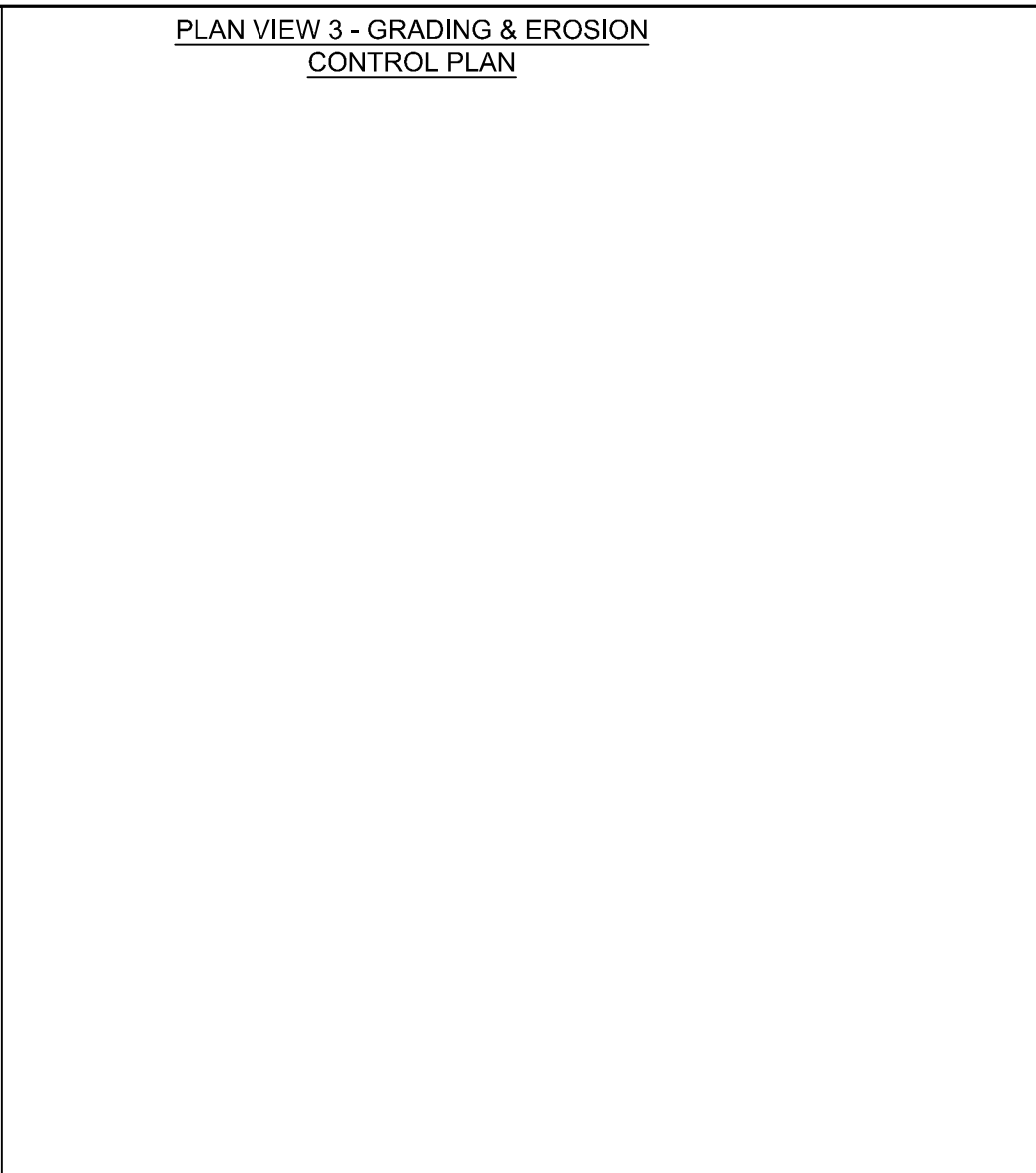
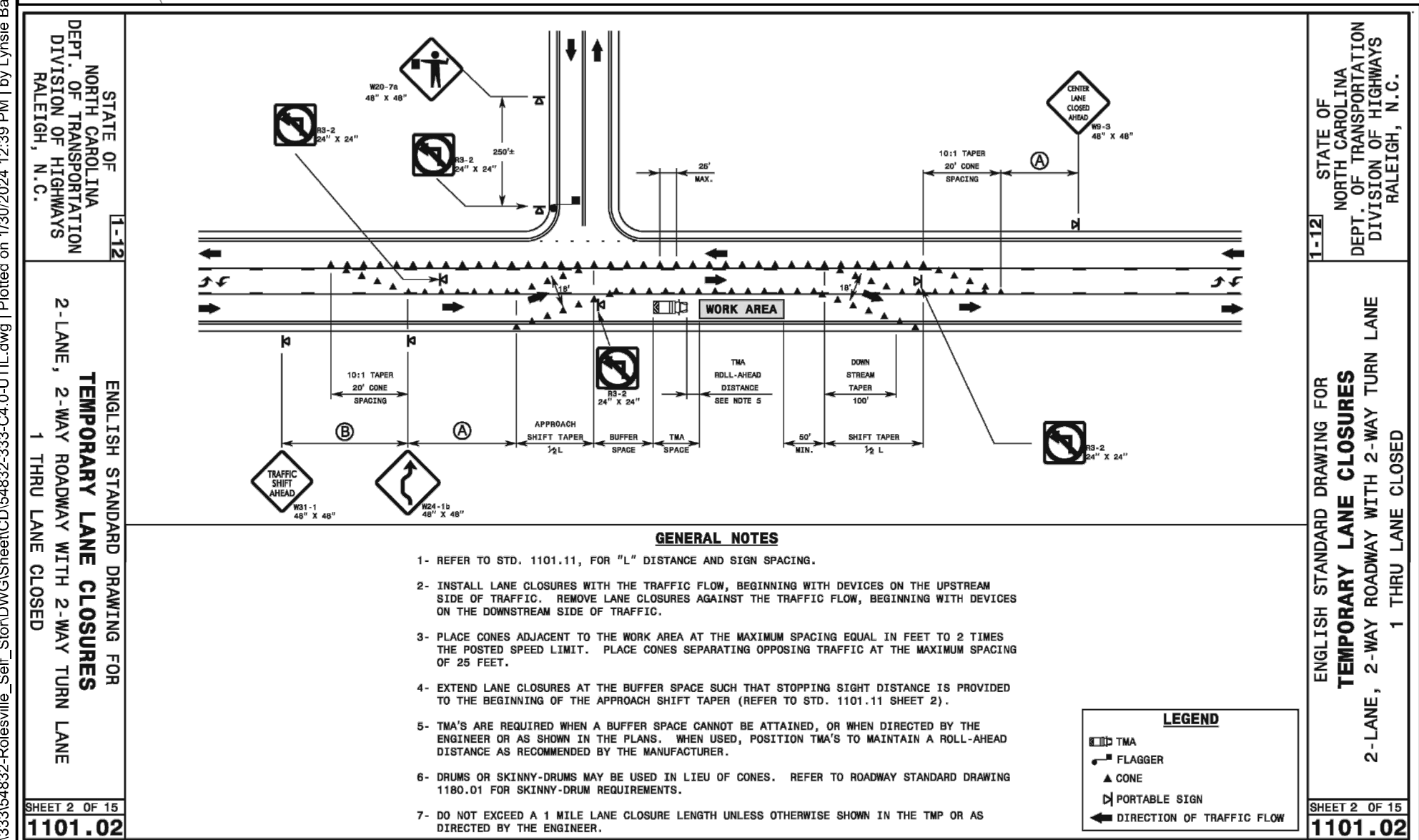


**SANITARY SEWER SCHEDULE**

MH1	TOP = 382.32 INV IN = 375.60 (SW) INV OUT = 375.36 (NE)	MH4	TOP = 383.56 INV IN = 378.50 (SE) INV OUT = 378.30 (NW)
MH2	TOP = 386.76 INV IN = 376.25 (SW) INV OUT = 376.05 (NE)	MH5	TOP = 388.72 INV IN = 382.50 (SW) INV OUT = 380.20 (NW)
MH3	TOP = 388.27 INV IN = 376.55 (SE) INV IN = 380.26 (NE) INV OUT = 376.35 (NE)		

**PIPE TABLE**

PIPE NAME	SIZE	LENGTH	SLOPE	BEARING
CO1-MH5	4"	72.62 LF	1.38%	N40° 05' 55"E
MH3-MH2	8"	22.88 LF	0.44%	N41° 04' 56"E
MH5-MH4	8"	345.19 LF	0.49%	N49° 16' 50"W
MH4-MH3	8"	355.00 LF	0.49%	N48° 48' 46"W
MH2-MH1	8"	91.77 LF	0.49%	N47° 42' 17"E



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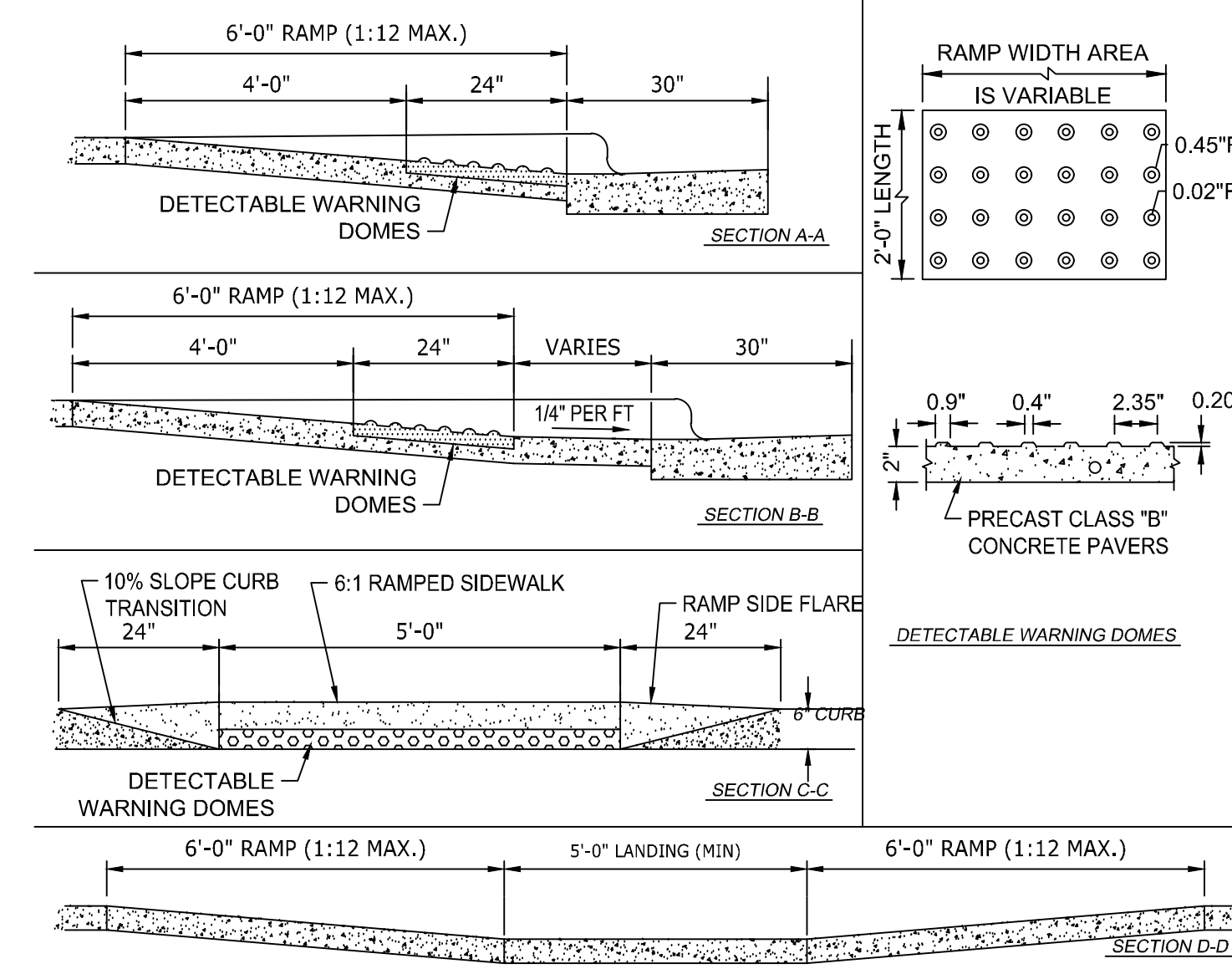
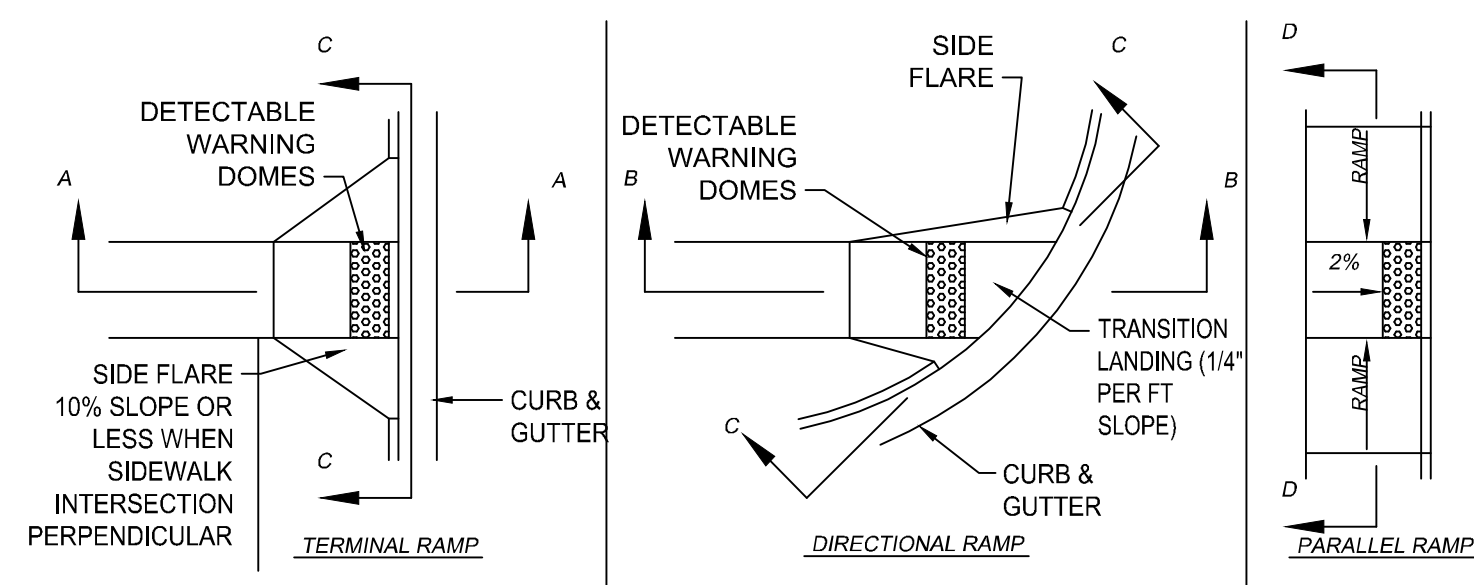
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**JONES DAIRY STORAGE FACILITY**  
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

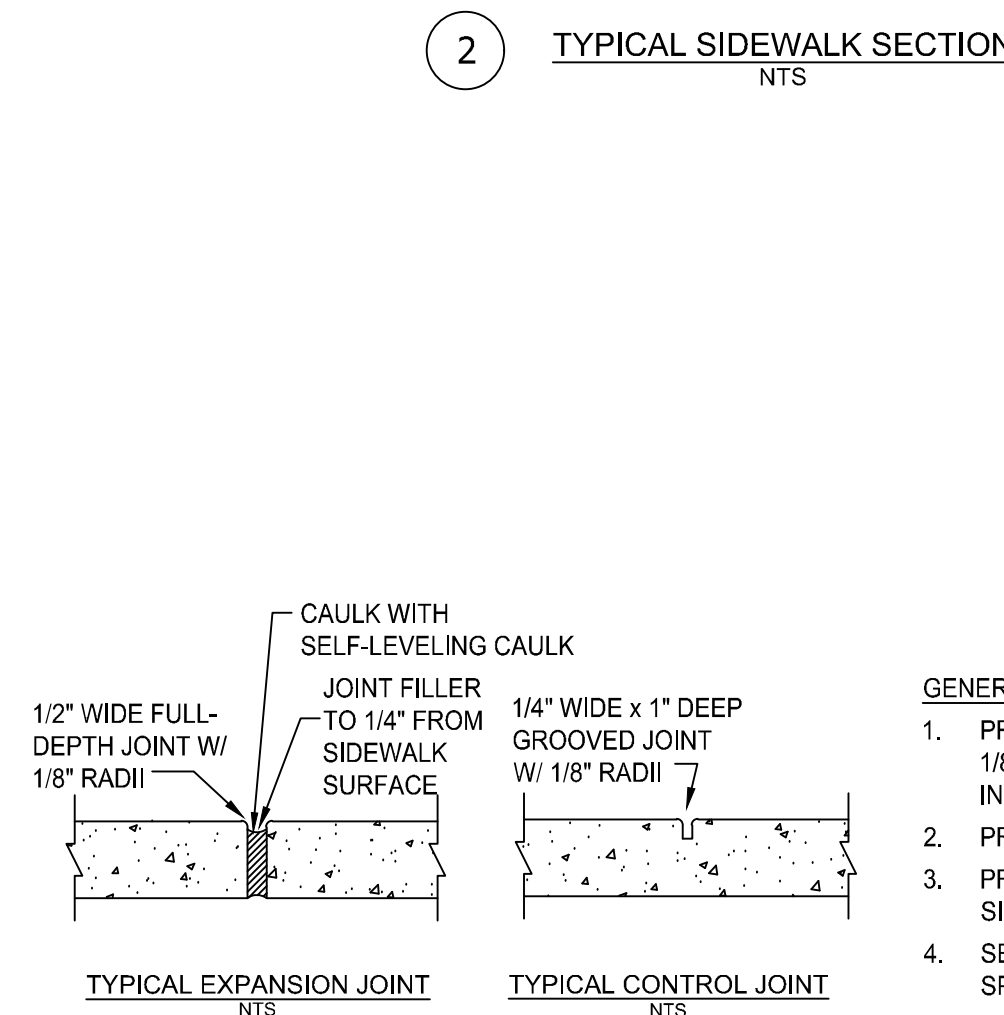
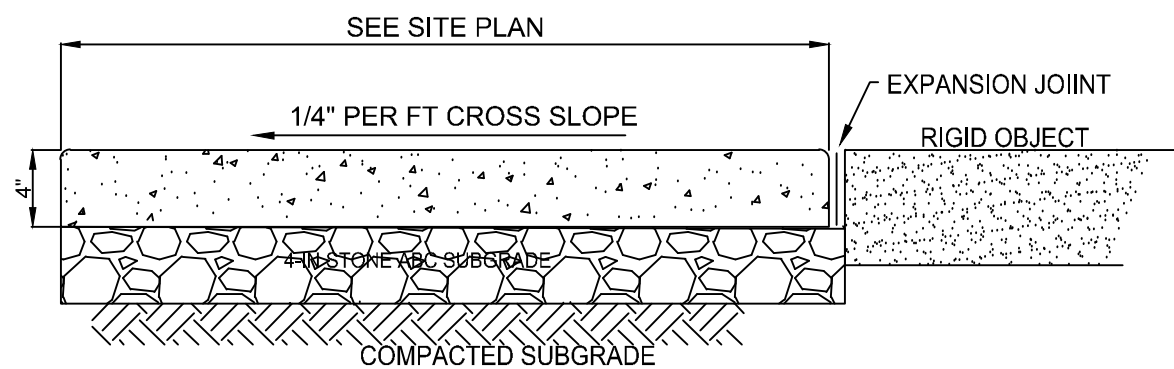
**OFF-SITE UTILITY PLAN & PROFILE**

JOB NO. 54832  
SHEET NO. C4.2

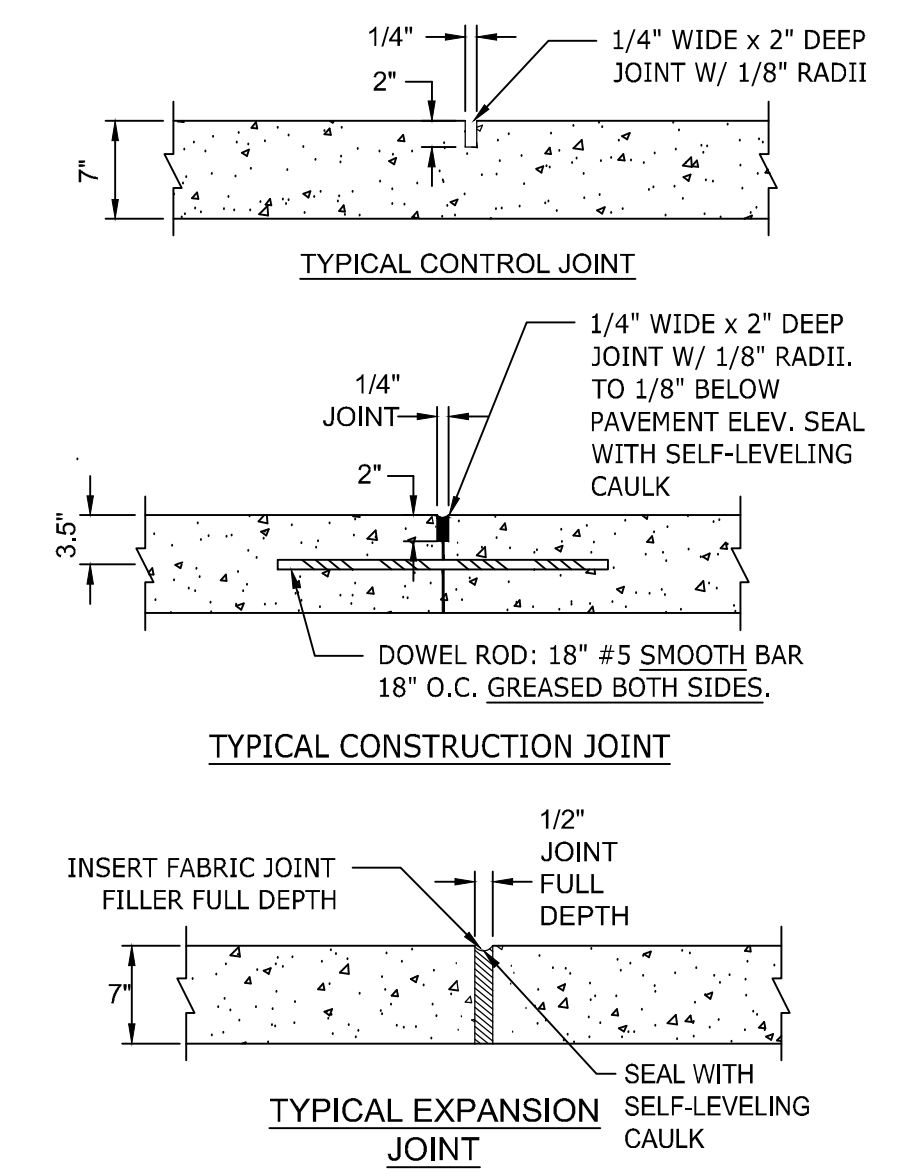
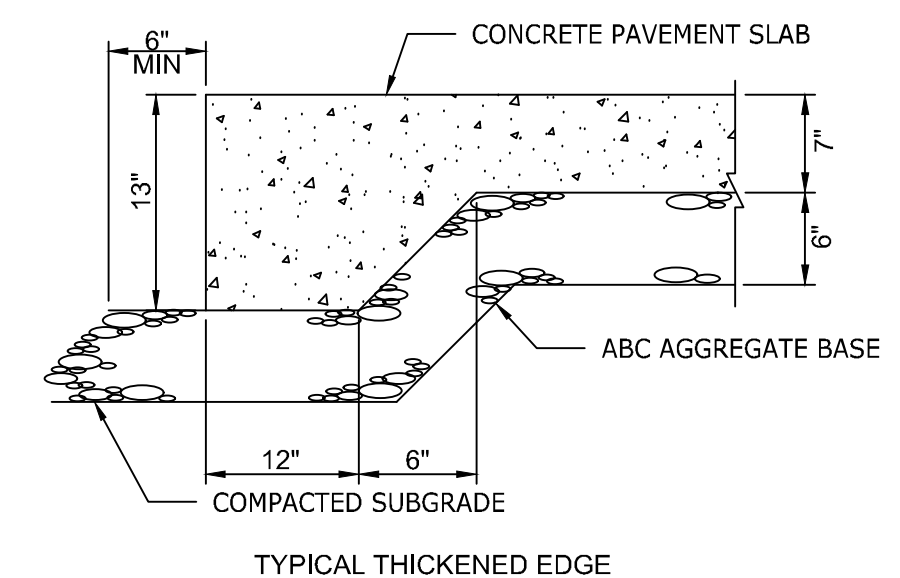




- NOTES:**
- NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 17/1' (1:12) IN RELATIONSHIP TO THE GRADE OF THE STREET. WHERE SIDEWALK INTERSECTS RAMP PERPENDICULAR, SIDE FLARES SHALL BE LESS THAN 10% SLOPE.
  - IN NO CASE SHALL THE WIDTH OF THE ACCESS RAMP BE LESS THAN 48" (4'-0")
  - DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN.
  - FLARES MAY BE SLOPED GREATER THAN 10% WHEN A SIDEWALK IS NOT INTERSECTING PERPENDICULAR WITH RAMP



- GENERAL NOTES:**
- PROVIDE GROOVE CONTROL JOINT 1-IN DEEP WITH 1/8-IN RADI IN SIDEWALK AT 5' INTERVALS UNLESS INDICATED OTHERWISE.
  - PROVIDE 1/2-IN EXPANSION JOINT AT 50' INTERVALS.
  - PROVIDE 1/2-IN EXPANSION JOINT WHERE THE SIDEWALK ABUTS ANY RIGID STRUCTURE.
  - SEE SPECIFICATIONS FOR ADDITIONAL JOINT SPACING REQUIREMENTS.
  - ALL CONCRETE SHALL BE 3,000 P.S.I. WITH BROOM FINISH.
  - ALL SIDEWALKS SHALL HAVE 2% OR LESS CROSS SLOPE.
  - ALL SIDEWALKS SHALL HAVE 5% OR LESS LONGITUDINAL SLOPE.
  - CAULK ALL EXPANSION JOINTS WITH SELF LEVELING COMPOUND.



**CONCRETE PAVEMENT DIMENSIONS**

CONC SLAB THICKNESS = 7"  
 ABC THICKNESS = 6"  
 REINFORCEMENT = 6x6 - W2.9xW2.9  
 DOWEL RODS = 18" #5 SMOOTH BARS GREASED BOTH SIDES

- NOTES:**
- ALL CONCRETE PAVEMENT SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI MIN. (ASTM C39).
  - CONTROL JOINTS SHALL BE SPACED AT 10' O.C.E.W. MAX. OR AS INDICATED ON THE PLAN.
  - EXPANSION JOINTS SHALL BE SPACED AT 30' O.C.E.W. MAX. OR AS INDICATED ON THE PLAN AND WHERE CONCRETE PAVEMENT ABUTS ANY RIGID OBJECT.
  - INSTALL THICKENED EDGES ALONG ALL EDGES / SIDES OF CONCRETE PAVEMENT.
  - O.C.E.W. REFERS TO "ON CENTER EACH WAY".
  - CAULK ALL EXPANSION JOINTS WITH SELF LEVELING COMPOUND.

1 ACCESSIBLE CURB RAMPS N.T.S.

2 CONCRETE SIDEWALK N.T.S.

12 HEAVY DUTY CONCRETE PAVEMENT N.T.S.

**COMPACTION NOTES:**

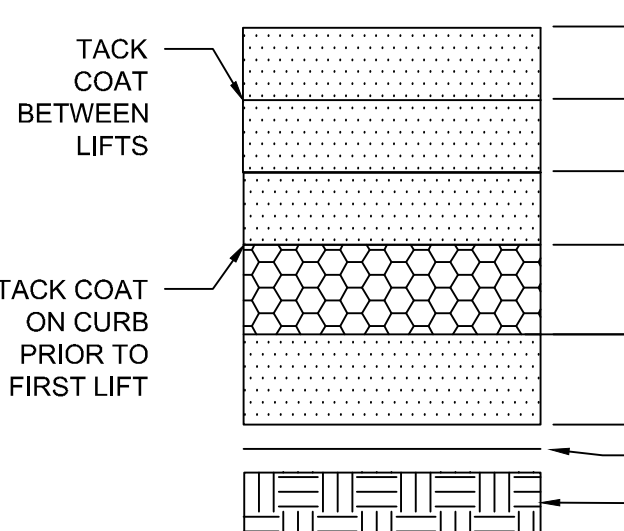
SUBGRADE AND ABC STONE

- COMPACT TO MAXIMUM DRY DENSITY PER ASTM D698 STANDARD PROCTOR AND WITHIN 3% MAXIMUM MOISTURE CONTENT.
- COMPACT SUBGRADE SOIL TO 95%
- COMPACT ABC STONE TO 100%.
- REFER TO NCDOT SPECIFICATION FOR ADDITIONAL INFORMATION.

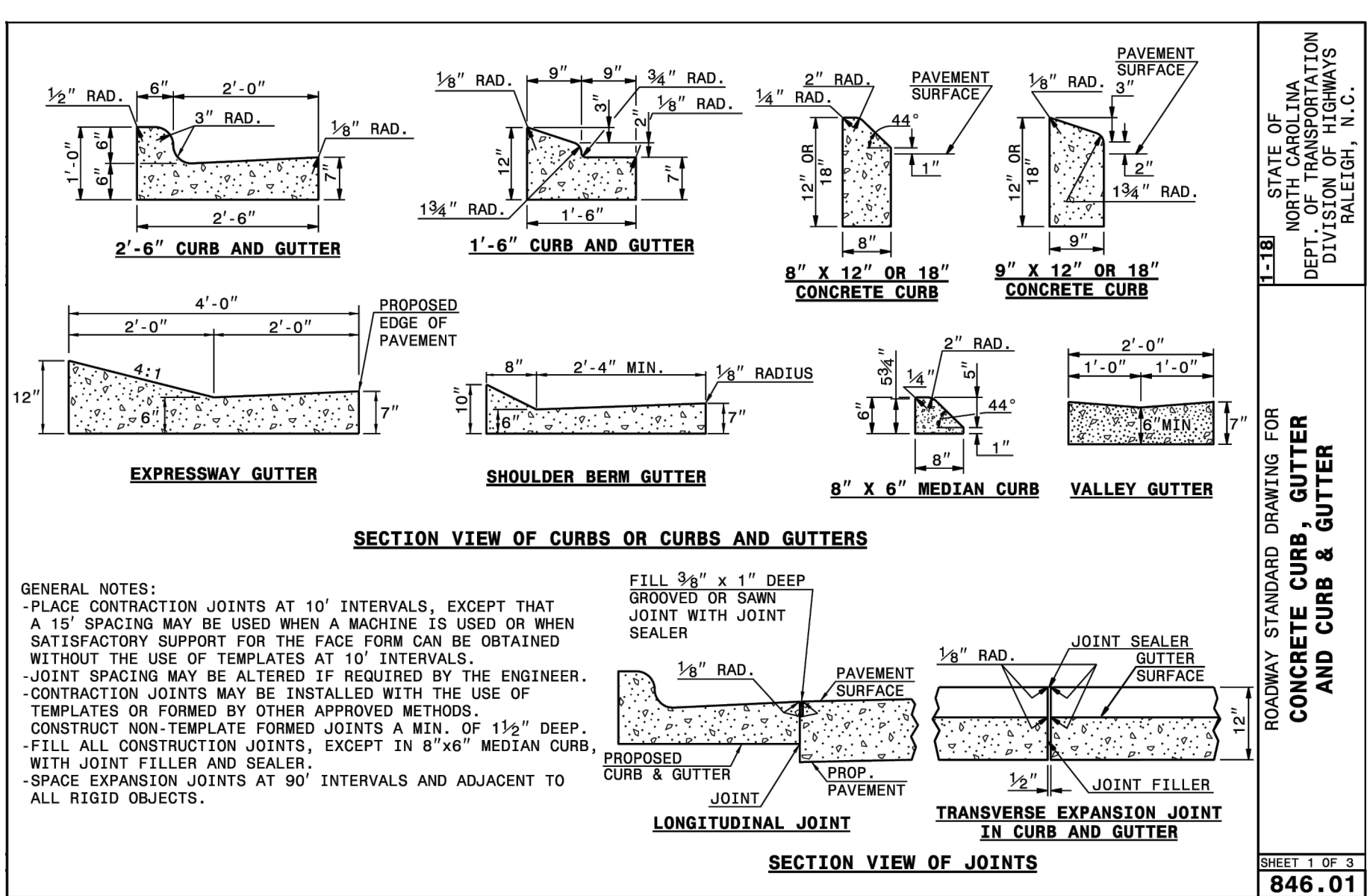
ASPHALT

- COMPACT ASPHALT TO 92% MAXIMUM SPECIFIC GRAVITY.
- REFER TO NCDOT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

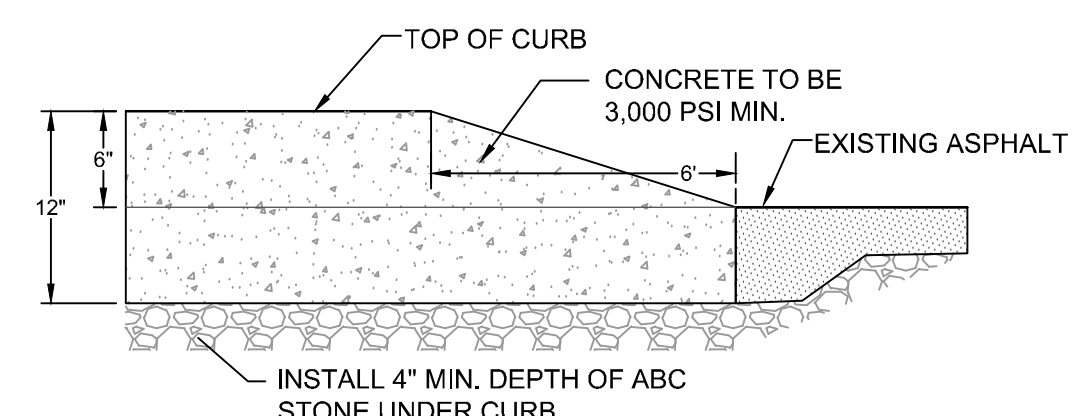
KEYNOTE	4 C6.0	5 C6.0	6 C6.0	7 C6.0	8 C6.0
PATTERN	[Pattern]	[Pattern]	[Pattern]	[Pattern]	[Pattern]
CLASSIFICATION	STANDARD DUTY ASPHALT	LIGHT DUTY ASPHALT	NCDOT FULL DEPTH ASPHALT	NCDOT OVERLAY	ASPHALT MULTI-USE PATH
TYPE S-9.5B (2018) SURFACE COURSE	3" (2-1.5" LIFTS)	3" (2-1.5" LIFTS)	-	-	2"
TYPE S-9.5C (2018) SURFACE COURSE	-	-	3" (2-1.5" LIFTS)	1.5"	-
TYPE I-19.0C (2018) INTERMEDIATE COURSE	-	-	4"	-	-
NCDOT CABC STONE	8"	6"	-	-	4"
B 25.0C BASE COURSE	-	-	5"	-	-



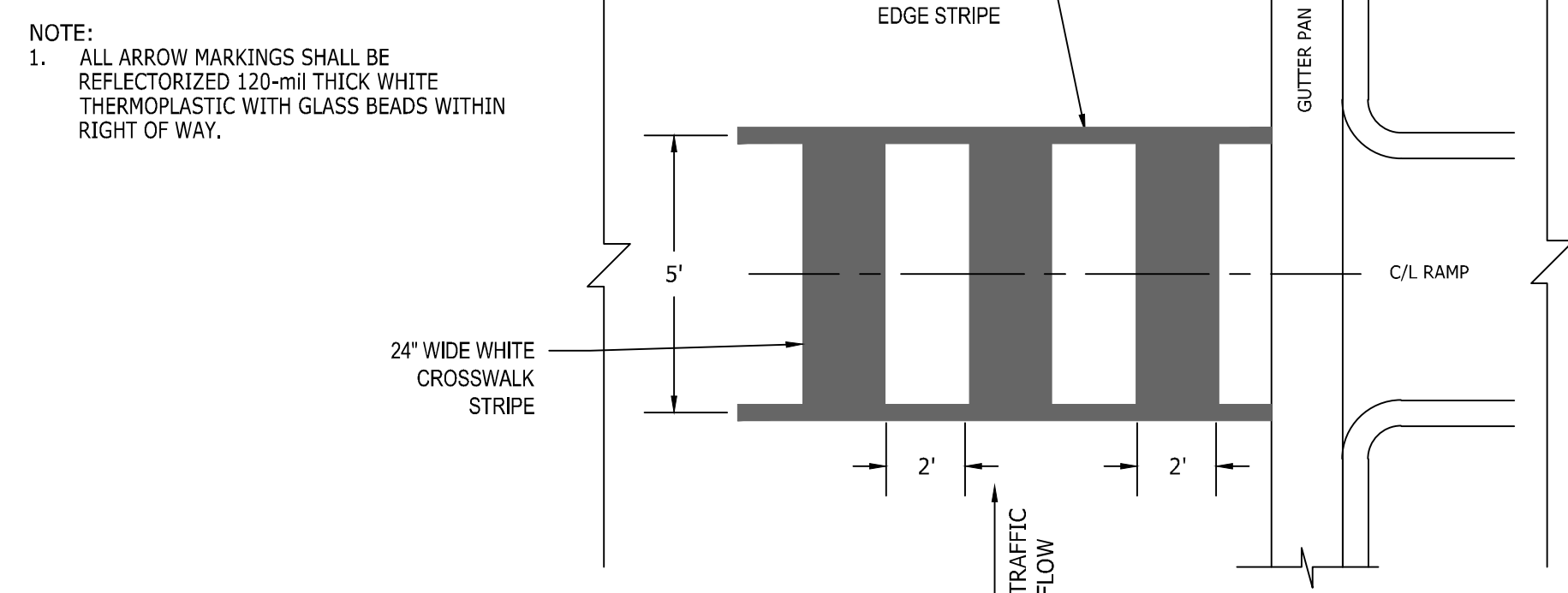
- NOTES:**
- THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ADEQUATE THICKNESS REQUIRED FOR INTERMEDIATE PAVING. INCREASES IN THE DESIGN PAVEMENT SECTION TO FACILITATE INTERMEDIATE PAVING SHALL BE PROVIDED AT NO ADDITIONAL COST.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.
  - CONTRACTOR IS RESPONSIBLE FOR THEIR OWN QC TESTING, PROOF ROLL, AND REQUIREMENTS NOTED IN SPECIFICATIONS.
  - OWNER WILL ACQUIRE 3RD PARTY QC TESTING SERVICES FOR SOILS AND PAVEMENTS.
  - REFER TO NCDOT SPECIFICATIONS FOR ADDITIONAL INFORMATION.



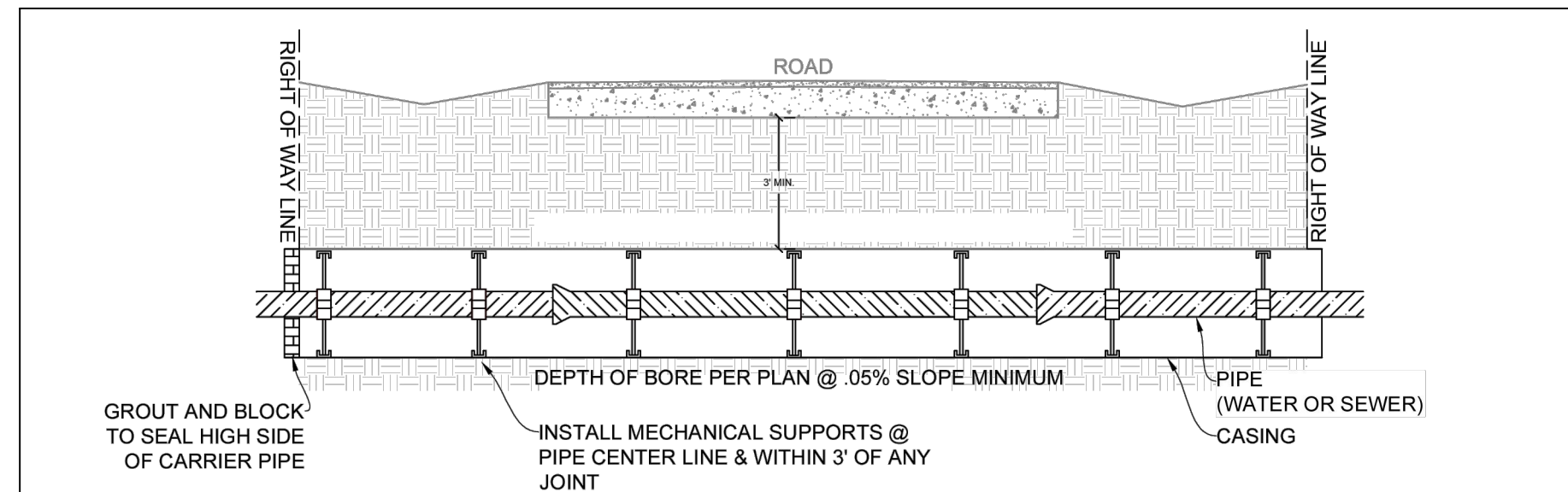
9 NCDOT 30" CONCRETE CURB AND GUTTER N.T.S.



10 CURB ENDING TAPER N.T.S.



11 HIGH VISIBILITY CROSS WALK MARKING N.T.S.



- NOTES:**
- CASING SHALL BE UNCOATED SPIRAL WELDED STEEL MEETING ASTM A-139, GRADE B WITH A YIELD STRENGTH OF 35,000 PSI.
  - CROSSINGS ON NCDOT MAINTAINED ROADS TO BE IN ACCORDANCE WITH CURRENT NCDOT STANDARDS AND APPROVED ENCROACHMENT AGREEMENT.
  - RESTRAINED JOINT PIPE ONLY. MEGE-LUGS ARE NOT PERMITTED.
  - SUPPORTS SHALL BE MANUFACTURED BY ADVANCE PRODUCTS & SYSTEMS, INC, PIPELINE SEAL AND INSULATOR LTD, OR BWM COMPANY.
  - THREE SUPPORTS SHALL BE INSTALLED ON EACH PIPE SEGMENT.
  - LARGER ENCASMENT SIZES MAY BE UTILIZED AT THE DISCRETION OF THE DESIGN ENGINEER AND/OR CONTRACTOR FOR EASE OF INSTALLATION AS LONG AS ALL OTHER DESIGN CRITERIA IS MET.
  - ALL PIPES 36" AND LARGER SHALL REQUIRE 4 SUPPORTS.

Carrier Pipe Nominal Diameter (inches)	Casing Minimum Inside Diameter (inches)	Casing Nominal Wall Thickness (inches)
6	14	0.375
8	16	0.375
10	18	0.375
12	20	0.375
14	24	0.375
16	30	0.500
18	30	0.500
20	36	0.500
24	36	0.625
30	42	0.625
36	48	0.750
42	54	0.875

12 BORE & JACK N.T.S.



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DATE: 04/05/2023  
 DRAWN BY: L. BARNES  
 DESIGNED BY: G. FRANK  
 CHECKED BY: G. FRANK  
 SCALE: AS SHOWN

**TIMMONS GROUP**

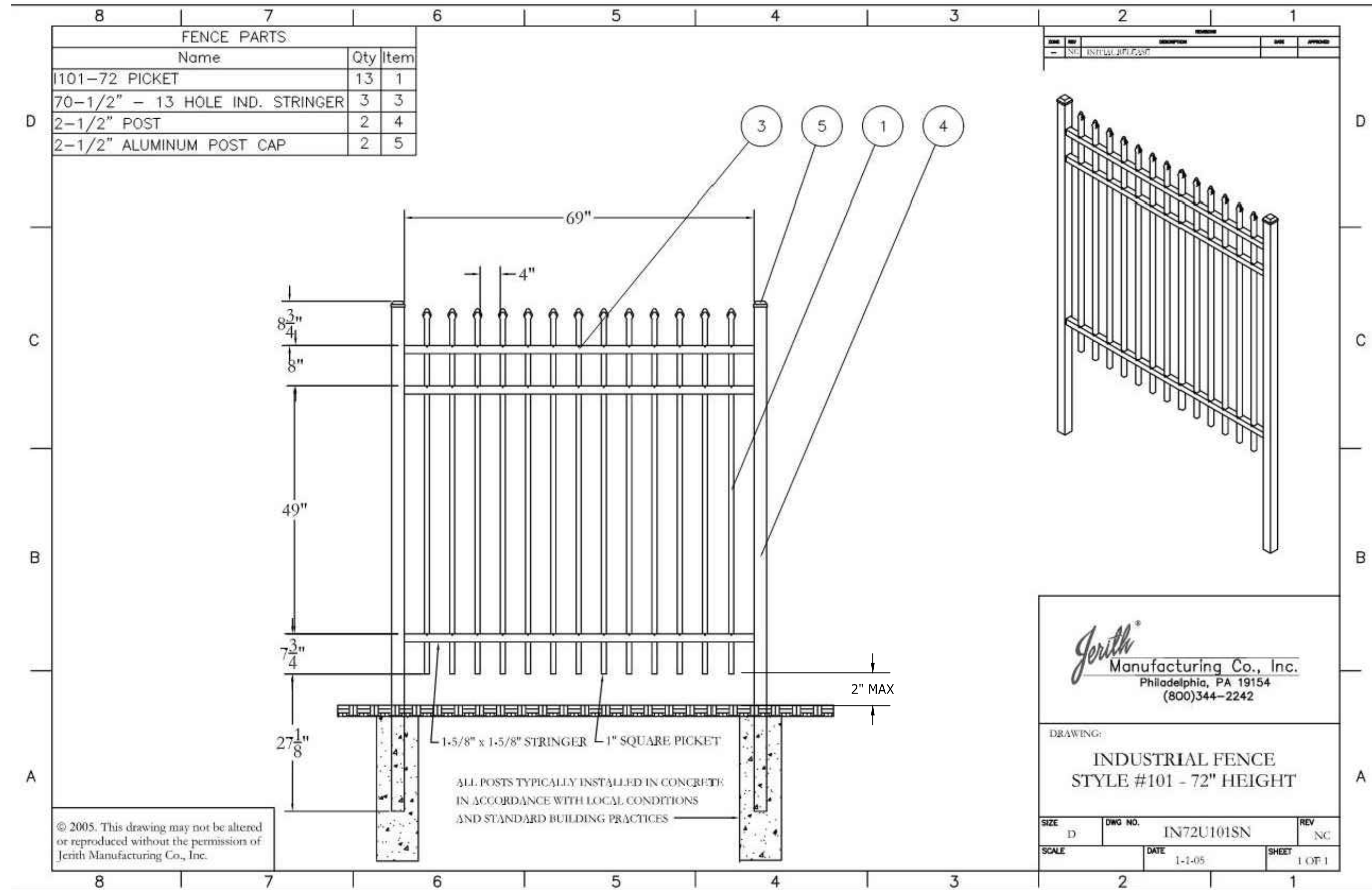
NORTH CAROLINA LICENSE NO. C-1652

**JONES DAIRY STORAGE FACILITY**

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

**SITE DETAILS**

JOB NO. 54832  
 SHEET NO. C6.0



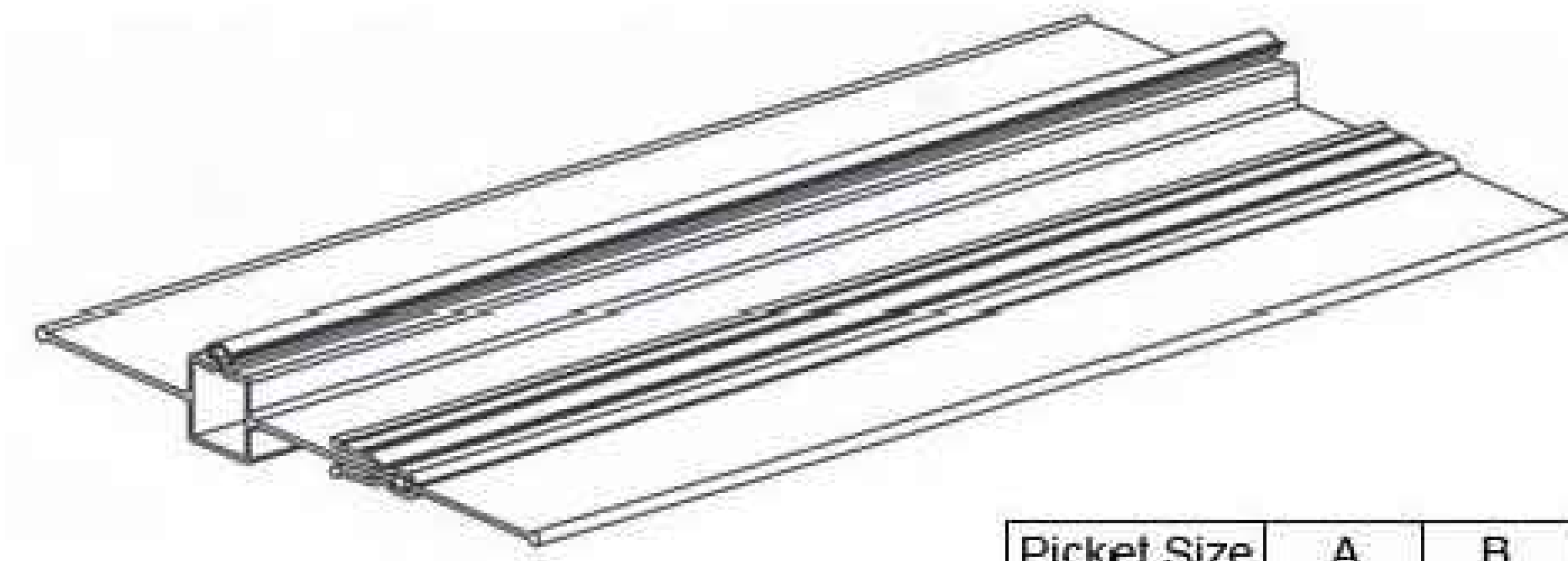
**Jerith**  
Manufacturing Co., Inc.  
Philadelphia, PA 19154  
(800)344-2242

DRAWING:  
**INDUSTRIAL FENCE  
STYLE #101 - 72" HEIGHT**

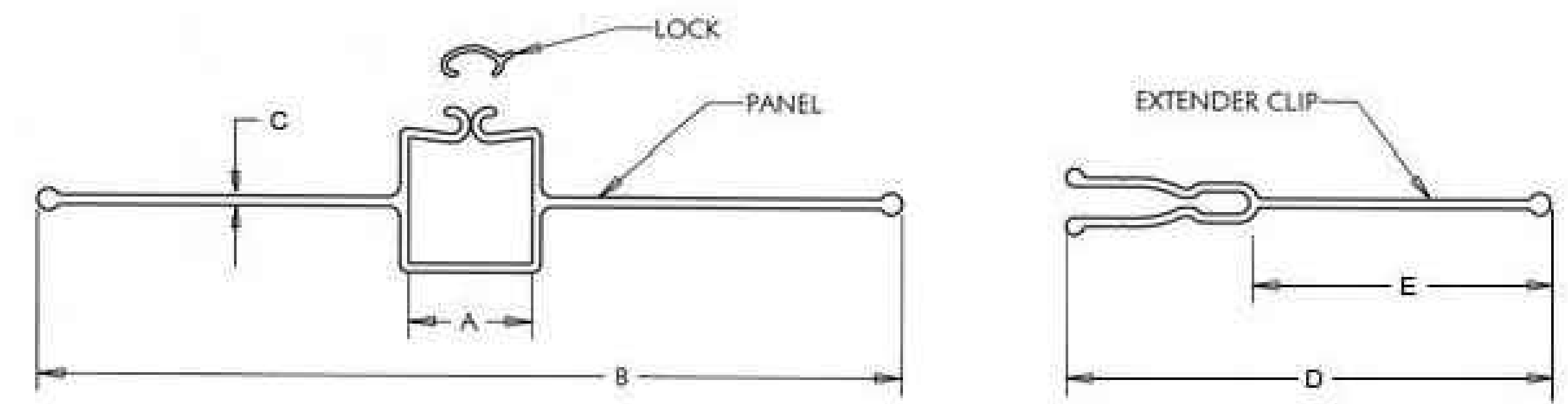
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SCALE: 1-1-05    DATE: 1-1-05    SHEET: 1 OF 1

- NOTES:  
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2. PROVIDE BUILDING PERMITTING AS REQUIRED BY WAKE COUNTY

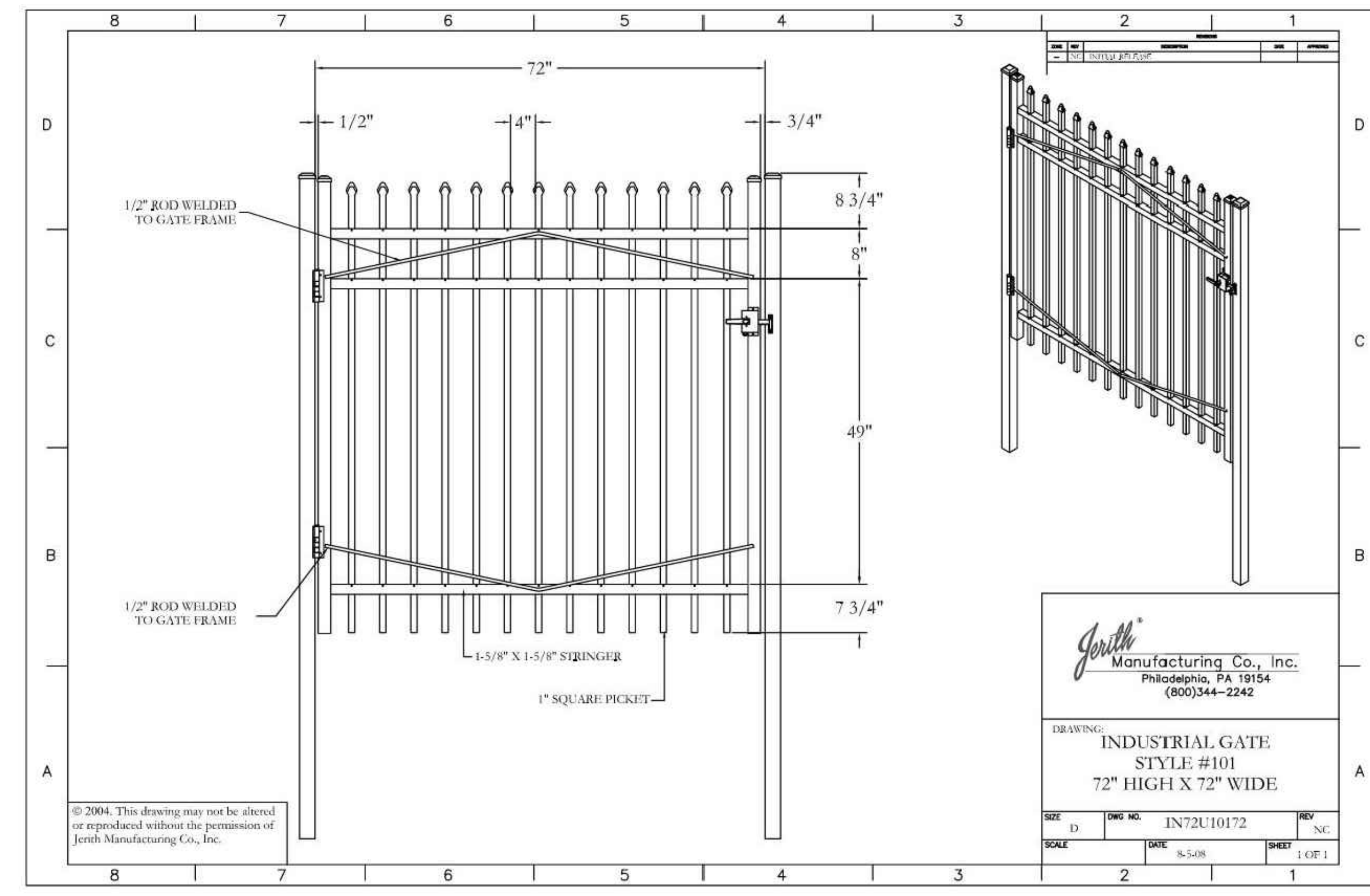
① ORNAMENTAL FENCE (6' HEIGHT) N.T.S.



Picket Size	A	B	C	D	E
5/8"	.70"	4.86"	0.050"	—	—
3/4"	.84"	5.00"	0.050"	—	—
1"	1.05"	5.21"	0.050"	—	—
Clip Size	—	—	—	2.75"	1.75"



② ORNAMENTAL FENCE PRIVACY SLATS N.T.S.



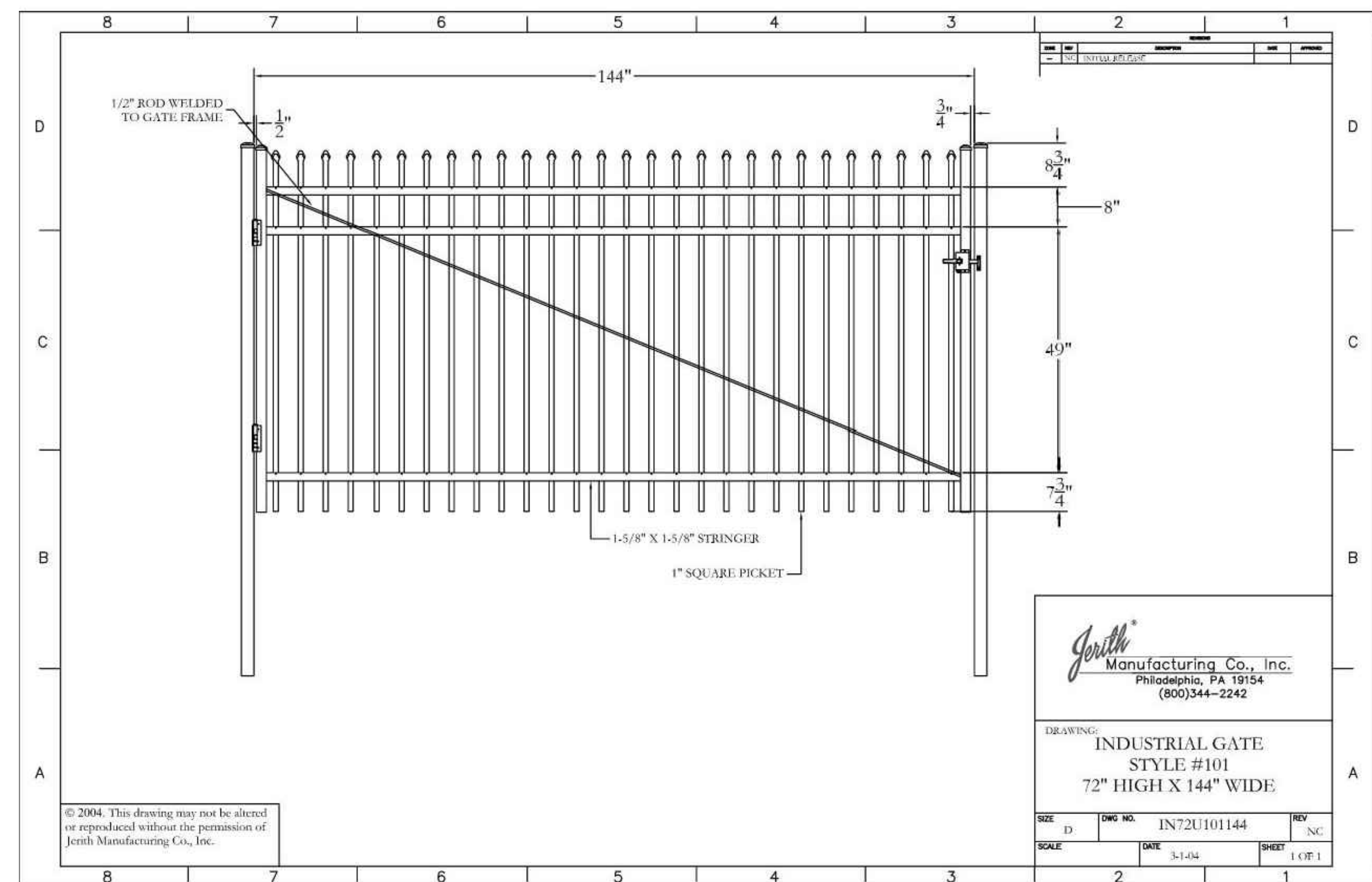
**Jerith**  
Manufacturing Co., Inc.  
Philadelphia, PA 19154  
(800)344-2242

DRAWING:  
**INDUSTRIAL GATE  
STYLE #101  
72" HIGH X 72" WIDE**

SIZE: D    DWG NO.: IN72U10172    REV: NC  
SCALE: 3-5-08    DATE: 3-5-08    SHEET: 1 OF 1

- NOTES:  
1. ALL FENCING SHALL BE INSTALLED PER MANUFACTURES STANDARDS AND SPECIFICATIONS.  
2. PROVIDE BUILDING PERMITTING AS REQUIRED BY WAKE COUNTY

③ ORNAMENTAL GATES (SEE PLANS FOR GATE WIDTH) N.T.S.



**Jerith**  
Manufacturing Co., Inc.  
Philadelphia, PA 19154  
(800)344-2242

DRAWING:  
**INDUSTRIAL GATE  
STYLE #101  
72" HIGH X 144" WIDE**

SIZE: D    DWG NO.: IN72U101144    REV: NC  
SCALE: 3-1-04    DATE: 3-1-04    SHEET: 1 OF 1

③ ORNAMENTAL GATES (SEE PLANS FOR GATE WIDTH) N.T.S.



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DATE	REVISION DESCRIPTION
06/07/2023	ADDRESSED TOWN OF ROLESVILLE COMMENTS
08/07/2023	ADDRESSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS
11/01/2023	ADDRESSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS

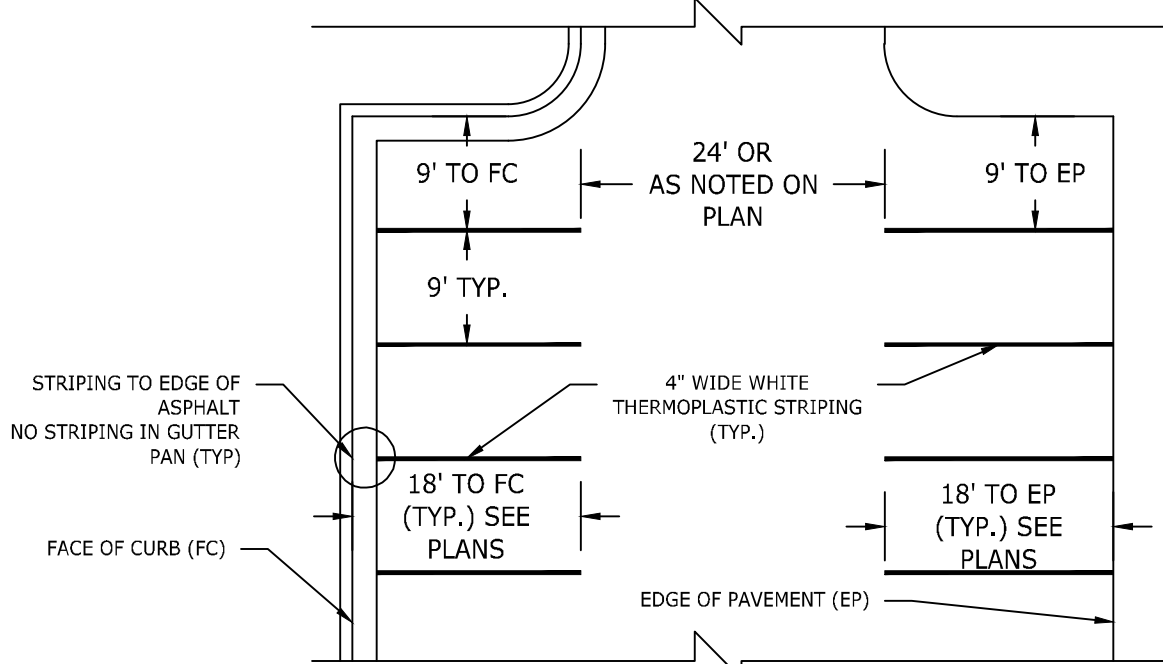
DATE: 04/05/2023  
DRAWN BY: L. BARNES  
DESIGNED BY: G. FRANK  
CHECKED BY: G. FRANK  
SCALE: AS SHOWN

**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652  
**JONES DAIRY STORAGE FACILITY**  
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
SITE DETAILS

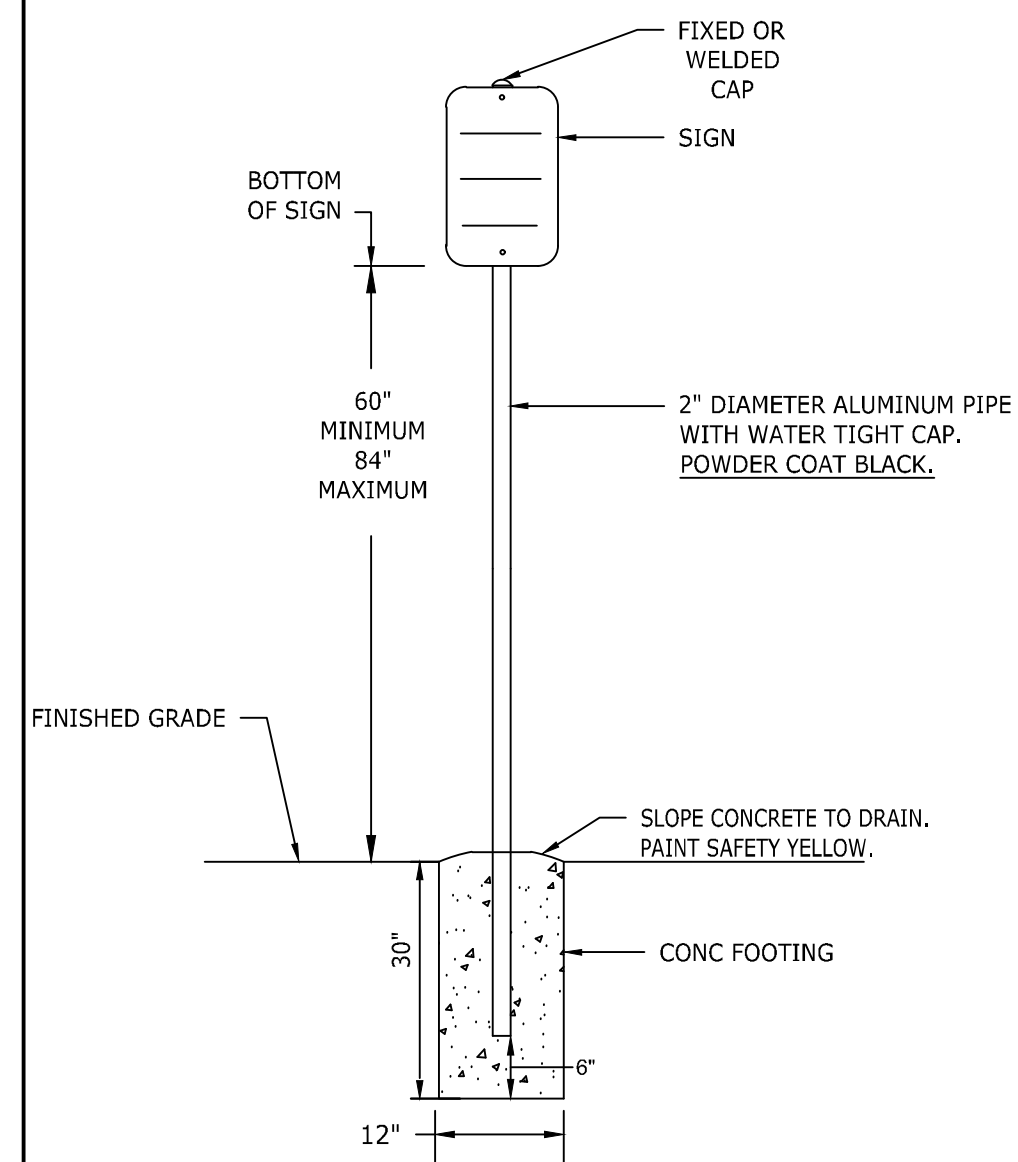
JOB NO.: 54832  
SHEET NO.: C6.1

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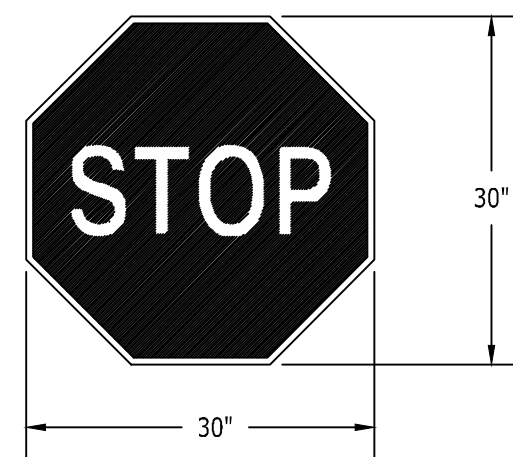
- NOTE:  
 1. ALL PARKING STALL MARKINGS SHALL BE 2 COATS 15-mil THICK ALKYD RESIN PAINT.  
 2. FC = FACE OF CURB  
 3. EP = EDGE OF PAVEMENT



1 PARKING STALL AND TRAFFIC STRIPE N.T.S.

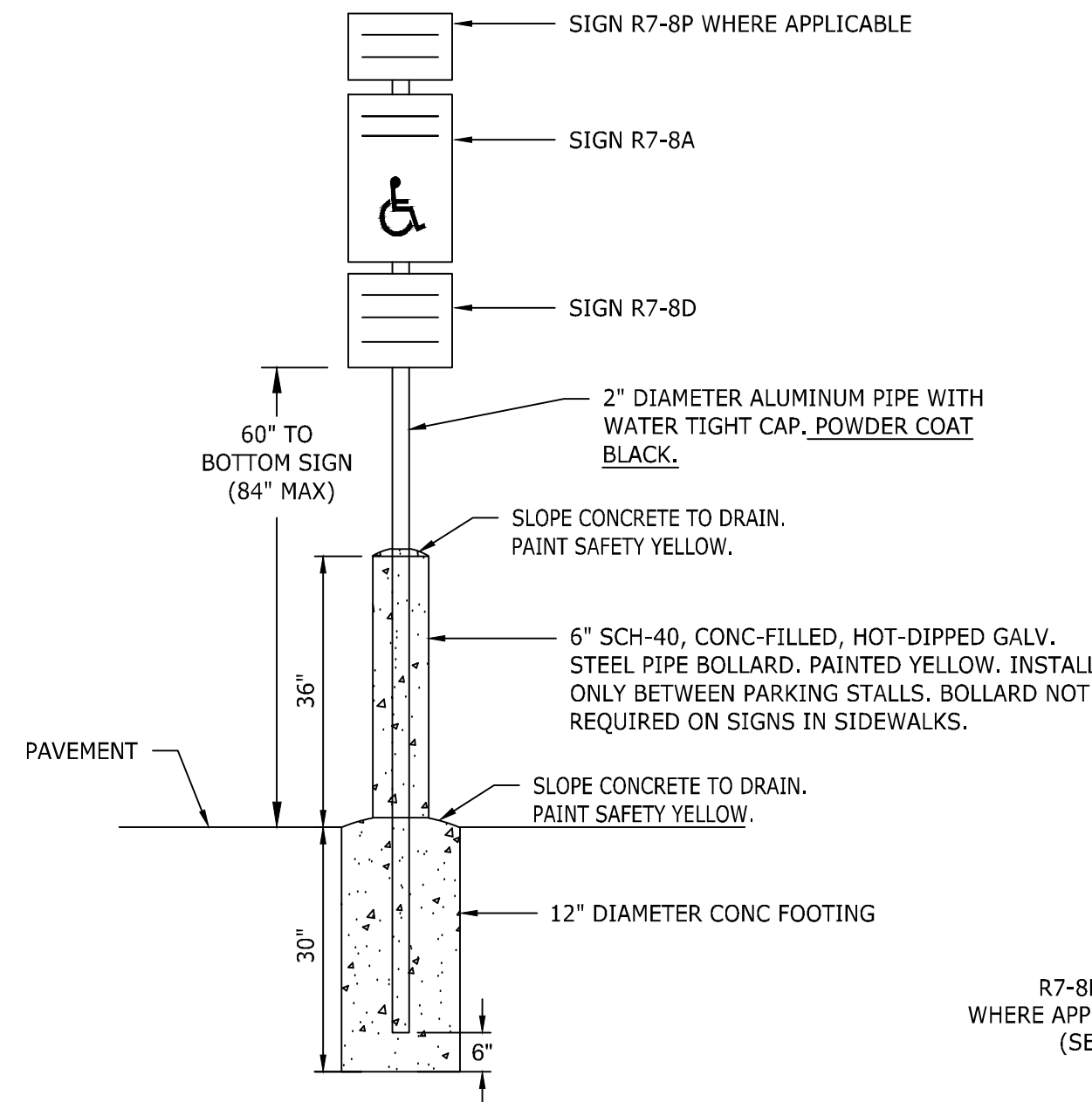


- NOTES:  
 1. MOUNTING HEIGHT TO BOTTOM OF SIGN SHALL BE 60" FROM BOTTOM OF SIGN TO PAVEMENT OR 84" IN PEDESTRIAN AREAS UNLESS OTHERWISE NOTED.  
 2. ALL SIGNAGE SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING.  
 3. SIGNS SHALL BE FABRICATED FROM ALUMINUM ALLOY SHEETS.  
 4. SIGNS SHOULD MEET MUTCD AND NCDOT STANDARDS AND SPECIFICATIONS FOR ROADWAY SIGNAGE AND FOUNDATIONS.



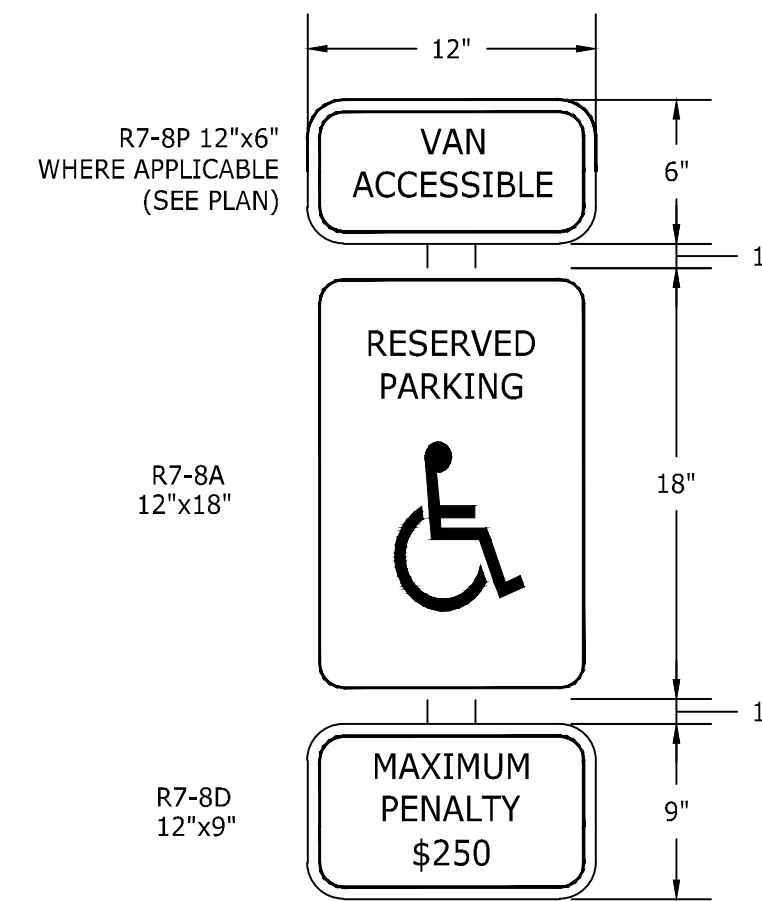
13 MUTCD STANDARD R1-1

2 TYPICAL ROADWAY SIGN N.T.S.

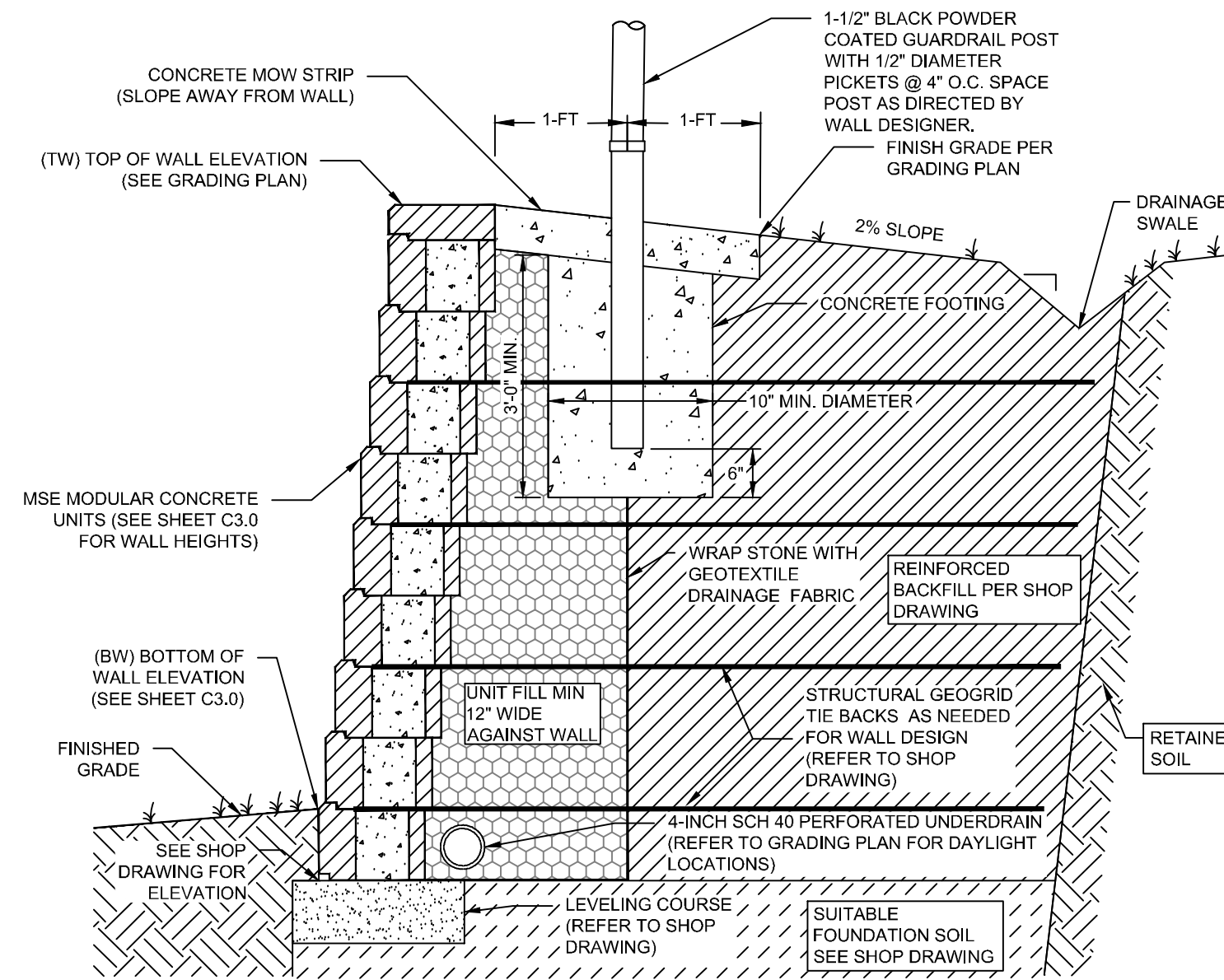


- NOTES:  
 1. MOUNTING HEIGHT TO BOTTOM OF SIGN SHALL BE 60" FROM BOTTOM OF SIGN TO PAVEMENT OR 84" IN PEDESTRIAN AREAS UNLESS OTHERWISE NOTED.  
 2. ALL SIGNAGE SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING. SIGNS SHALL BE FABRICATED FROM ALUMINUM ALLOY SHEETS.  
 3. ALL MOUNTING HARDWARE SHALL BE GALVANIZED.  
 4. "VAPS" ON PLANS DENOTES VAN ACCESSIBLE PARKING SIGN. INSTALL R7-8A, R7-8D, & R7-8P.  
 5. "APS" ON PLANS DENOTES ACCESSIBLE PARKING SIGN. INSTALL R7-8A & R7-8D ONLY.

3 ACCESSIBLE PARKING SIGN N.T.S.

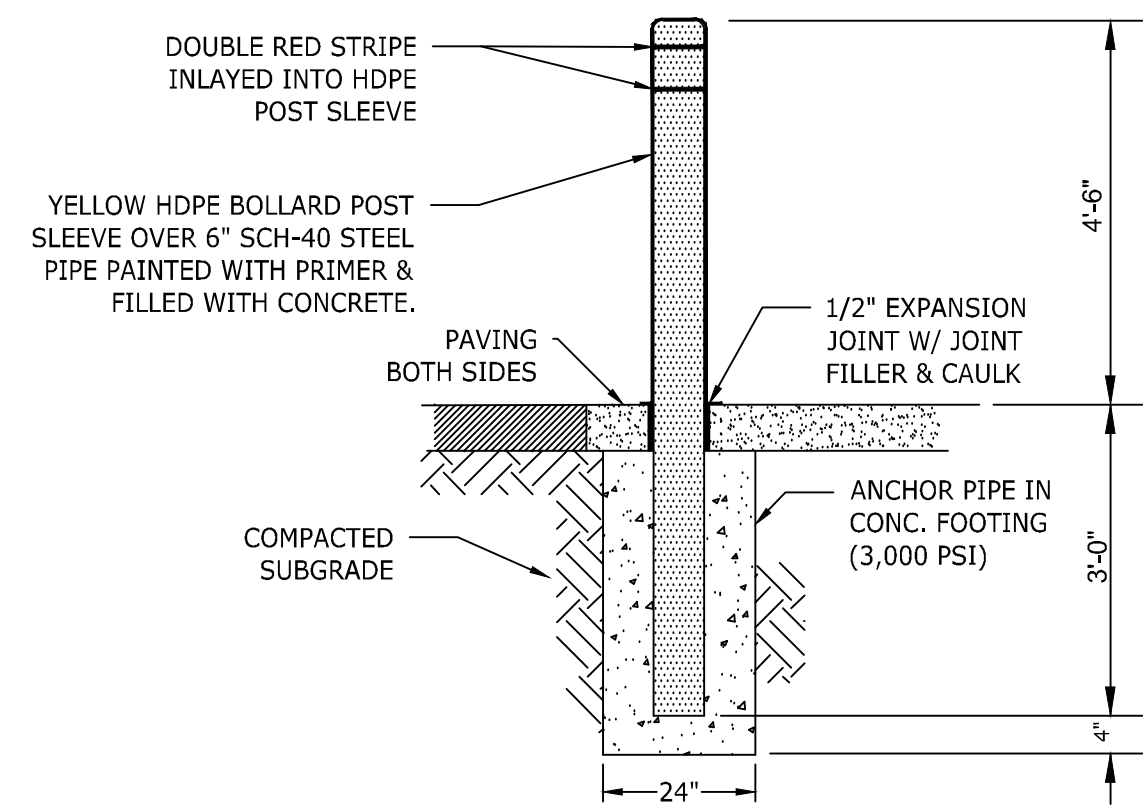


4 MODULAR BLOCK RETAINING WALL WITH BLACK SAFETY FENCE N.T.S.

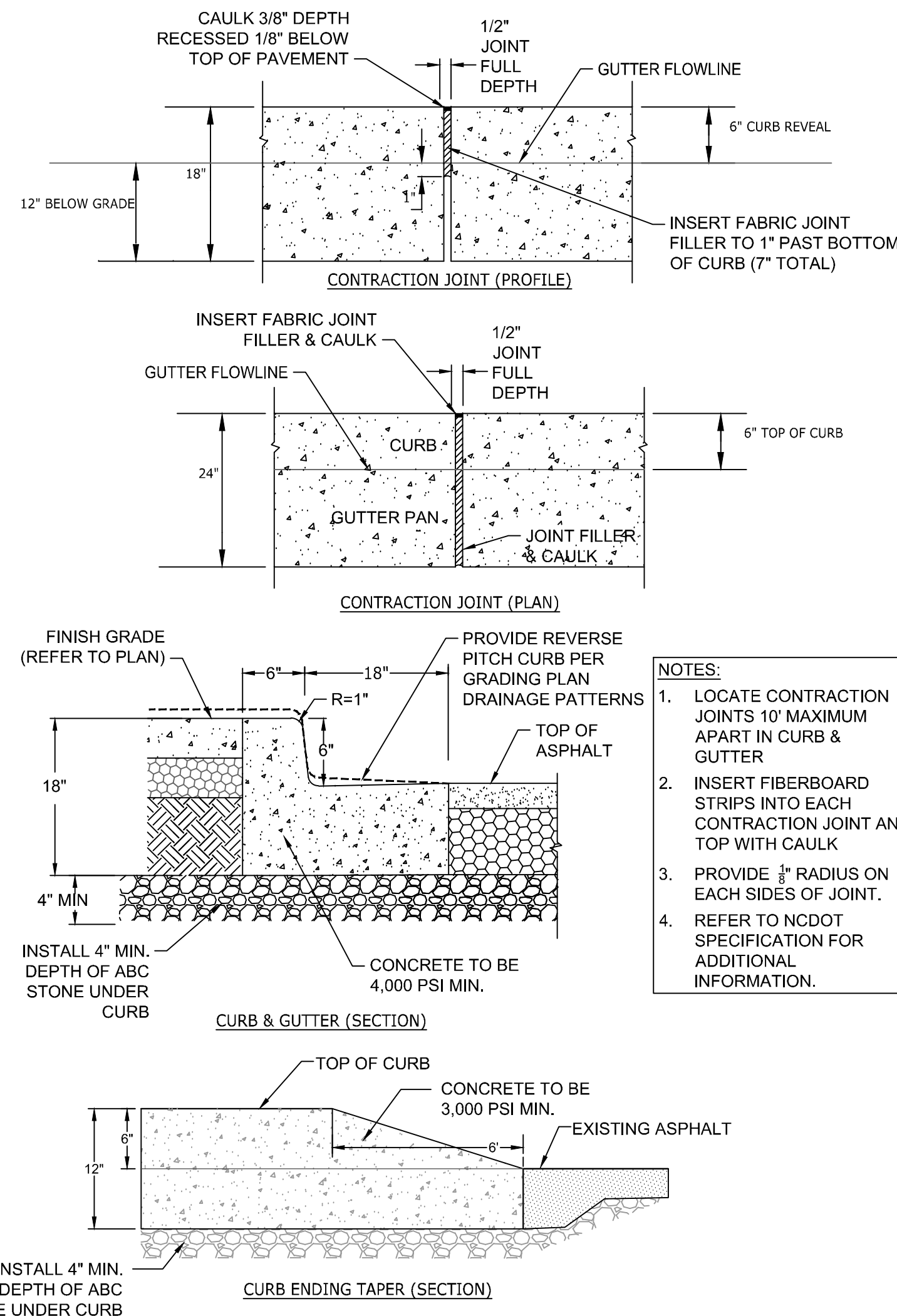


- NOTES:  
 1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SHOP DRAWING OF WALL DESIGN, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER (REGISTERED IN NORTH CAROLINA), FOR APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR MUST BE CERTIFIED TO BUILD THE WALL OR HAVE LICENSE PROFESSIONAL ENGINEER CERTIFY CONSTRUCTION.  
 2. FURNISH AND INSTALL ALL MATERIALS IN ACCORDANCE WITH THE SIGNED AND SEALED RETAINING WALL SHOP DRAWING.  
 3. MODULAR CONCRETE WALL UNITS SHALL CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000-PSI. UNITS SHALL HAVE STRAIGHT, SPLITFACE EXTERIOR FACE. PROVIDE CAP UNITS WITH SMOOTH TOP SURFACES. BASIS OF DESIGN BLOCK IS ANCHOR DIAMOND PRO.  
 4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE MATERIALS IN THE REINFORCED ZONE FOR THE WALL CONSTRUCTION IN ACCORDANCE WITH THE SHOP DRAWINGS. ANY BORROW OR IMPORTED FILL MATERIAL REQUIRED FOR PROPER BACKFILLING OF THE WALL SHALL BE PROVIDED BY THE CONTRACTOR IN THE BASE BID CONTRACT. (REFER TO THE ATTACHED GEOTECHNICAL REPORT FOR EXISTING ONSITE SOILS)  
 5. THE FOUNDATION SOIL (BELOW THE WALL AND GEOTEXTILE TIE BACKS) MUST MEET THE REQUIREMENTS IN THE SHOP DRAWING. THESE SOILS WILL BE TESTED BY THE MATERIAL TESTING COMPANY HIRED BY THE OWNER. SHOULD THE SITE SOILS NOT MEET THE REQUIREMENTS CONSULT WITH THE WALL DESIGNER AND CIVIL ENGINEER PRIOR TO CONSTRUCTION.  
 5.1. PROVIDE A DESIGN THAT WORKS WITH THE FOUNDATION SOILS (REFER TO ATTACHED GEOTECHNICAL REPORT).  
 6. ACCOUNT FOR PREMIUM COLOR BLOCK IN THE BID. BASIS OF DESIGN COLOR IS ANCHOR DIAMOND PRO PLANTATION.  
 7. REFER TO WALL MANUFACTURERS SPECIFICATIONS AND GEOTECHNICAL ENGINEERING REPORT BY TIMMONS GROUP, DATED MARCH 10, 2023, INCLUDING OTHER ACCEPTABLE MSE WALL SYSTEMS BASED ON OWNER APPROVAL.

4 MODULAR BLOCK RETAINING WALL WITH BLACK SAFETY FENCE N.T.S.

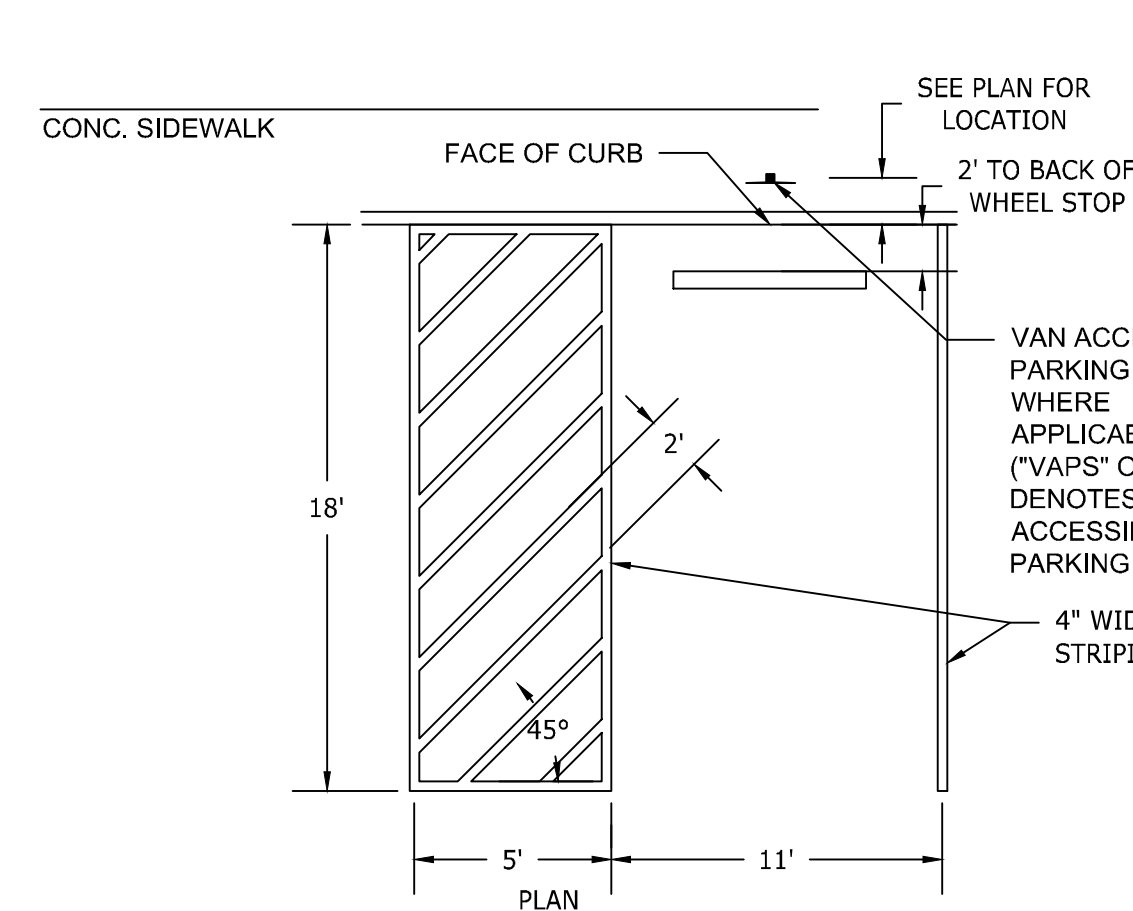


5 6" STEEL BOLLARD w/ HDPE SLEEVE N.T.S.



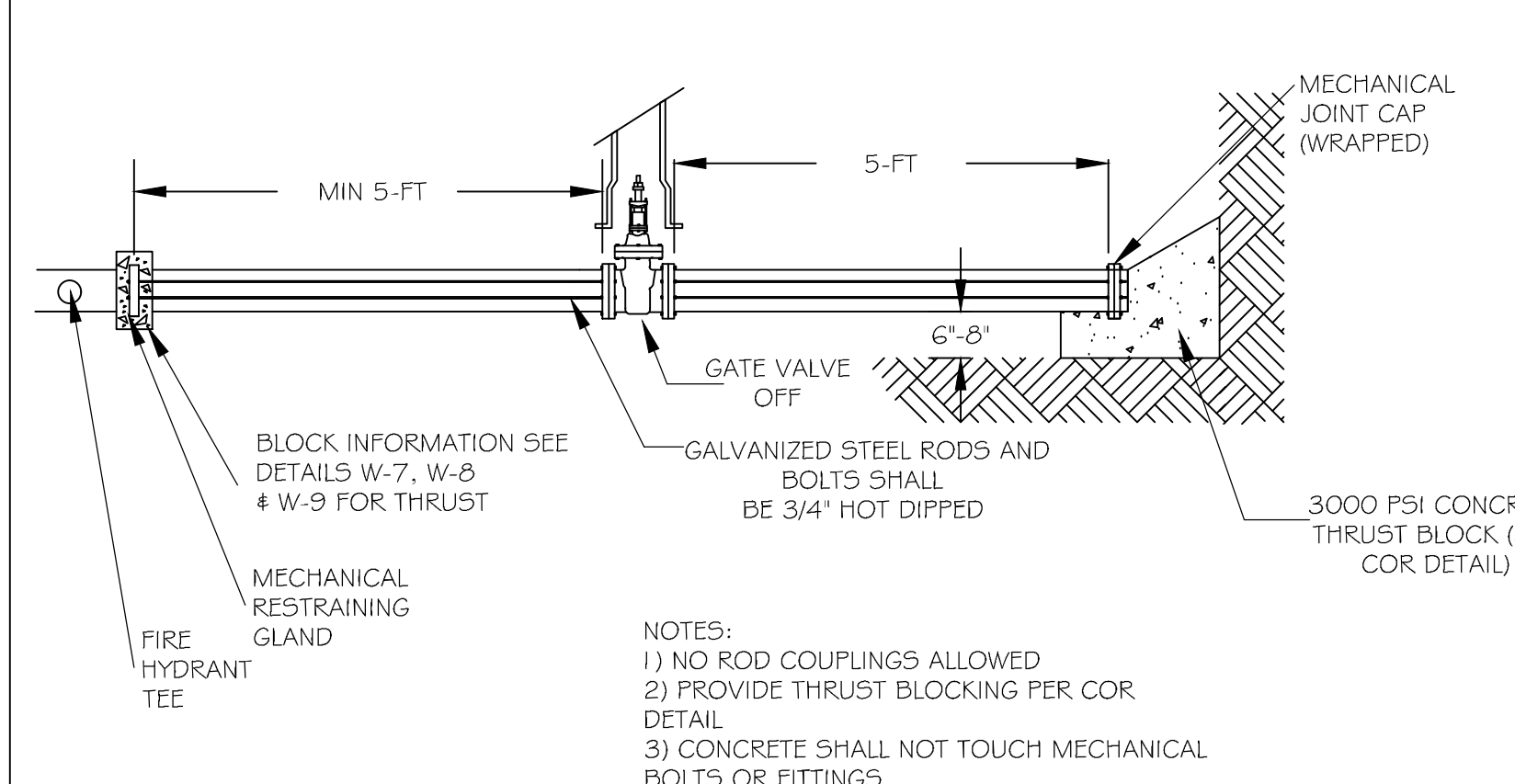
- NOTES:  
 1. LOCATE CONTRACTION JOINTS 10' MAXIMUM APART IN CURB & GUTTER.  
 2. INSERT FIBERBOARD STRIPS INTO EACH CONTRACTION JOINT AND TOP WITH CAULK.  
 3. PROVIDE 1/2" RADIUS ON EACH SIDES OF JOINT.  
 4. REFER TO NCDOT SPECIFICATION FOR ADDITIONAL INFORMATION.

6 24" CONCRETE CURB & GUTTER N.T.S.



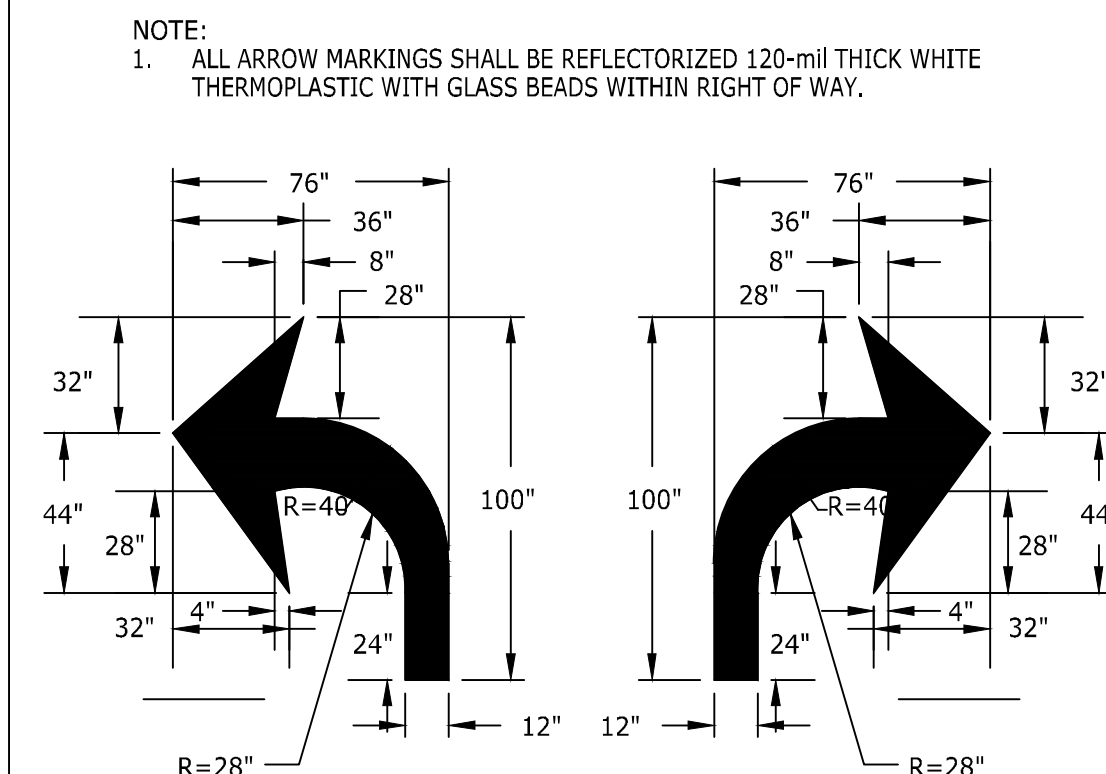
- NOTE:  
 1. ALL PARKING STALL MARKINGS SHALL BE 2 COATS 15-mil THICK ALKYD RESIN PAINT.

7 ACCESSIBLE PARKING SPACE LAYOUT N.T.S.

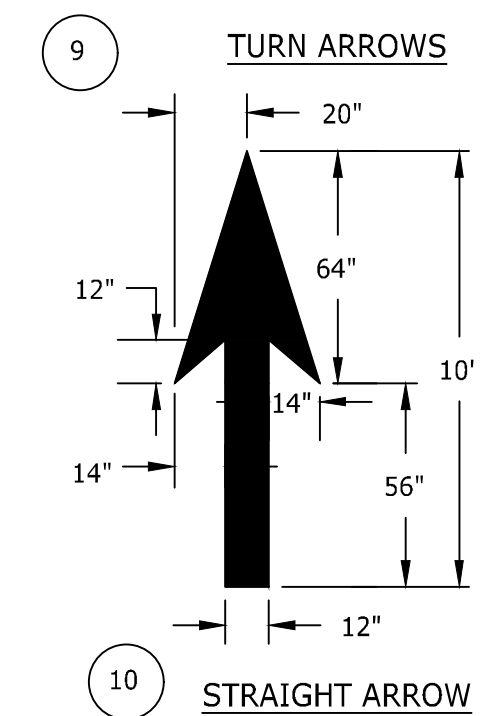


- NOTES:  
 1) NO ROD COUPLINGS ALLOWED  
 2) PROVIDE THRUST BLOCKING PER COR DETAIL  
 3) CONCRETE SHALL NOT TOUCH MECHANICAL BOLTS OR FITTINGS

8 FIRE LINE CAPPING DETAIL N.T.S.



9 TURN ARROWS



10 STRAIGHT ARROW

9 TRAFFIC ARROWS N.T.S.

MUTCD STANDARD SD 11-03

PAIN 4" YELLOW LINE (2-COATS ALKYD RESIN PAINT)

FIRE LANE

\*\* FIRE LANE MARKING SHALL CONSIST OF A 4" SOLID YELLOW STRIPE AND 8" HIGH YELLOW TEXT "FIRE LANE" AT 50' INTERVALS.

10 FIRE LANE MARKINGS N.T.S.



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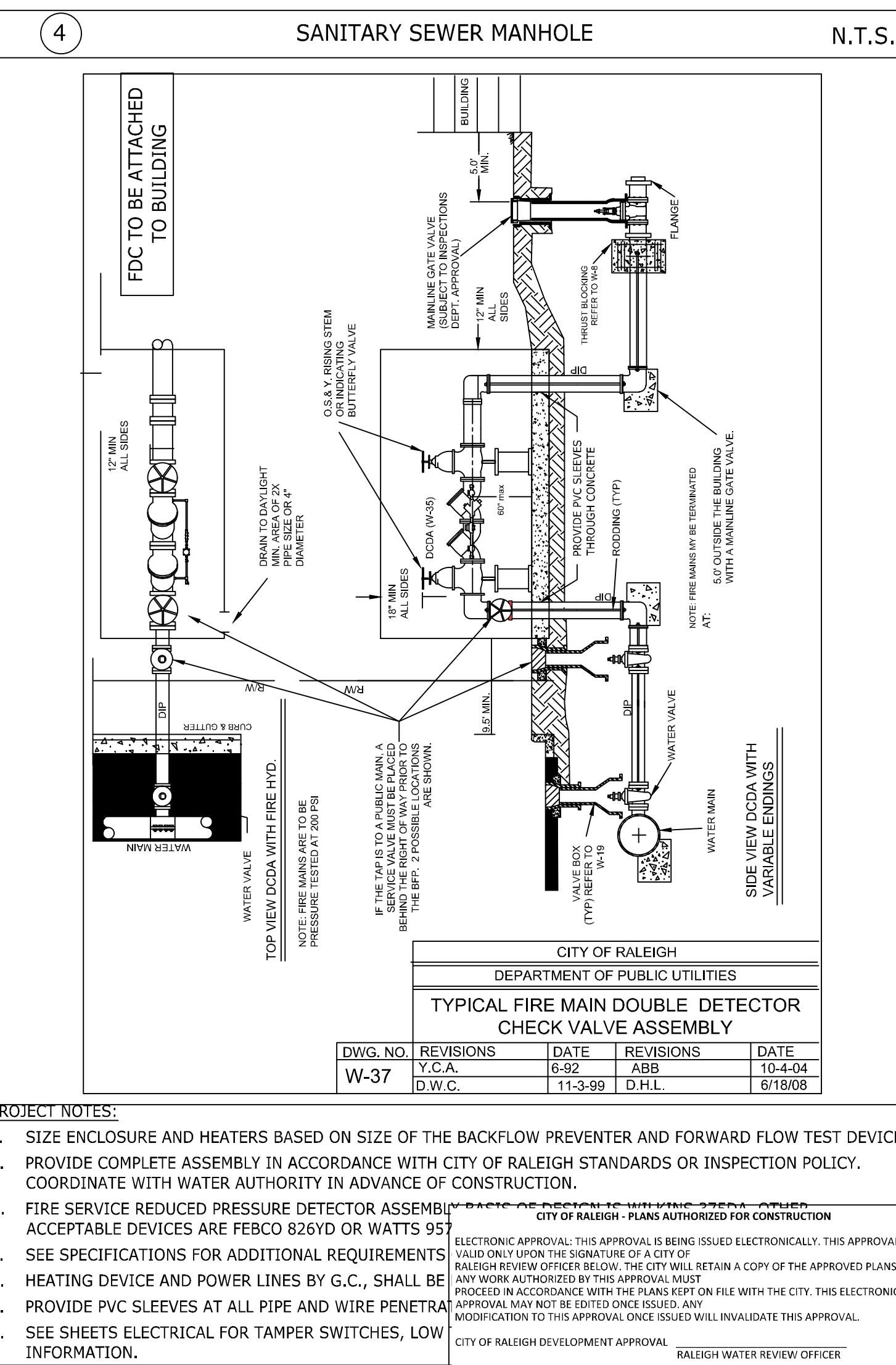
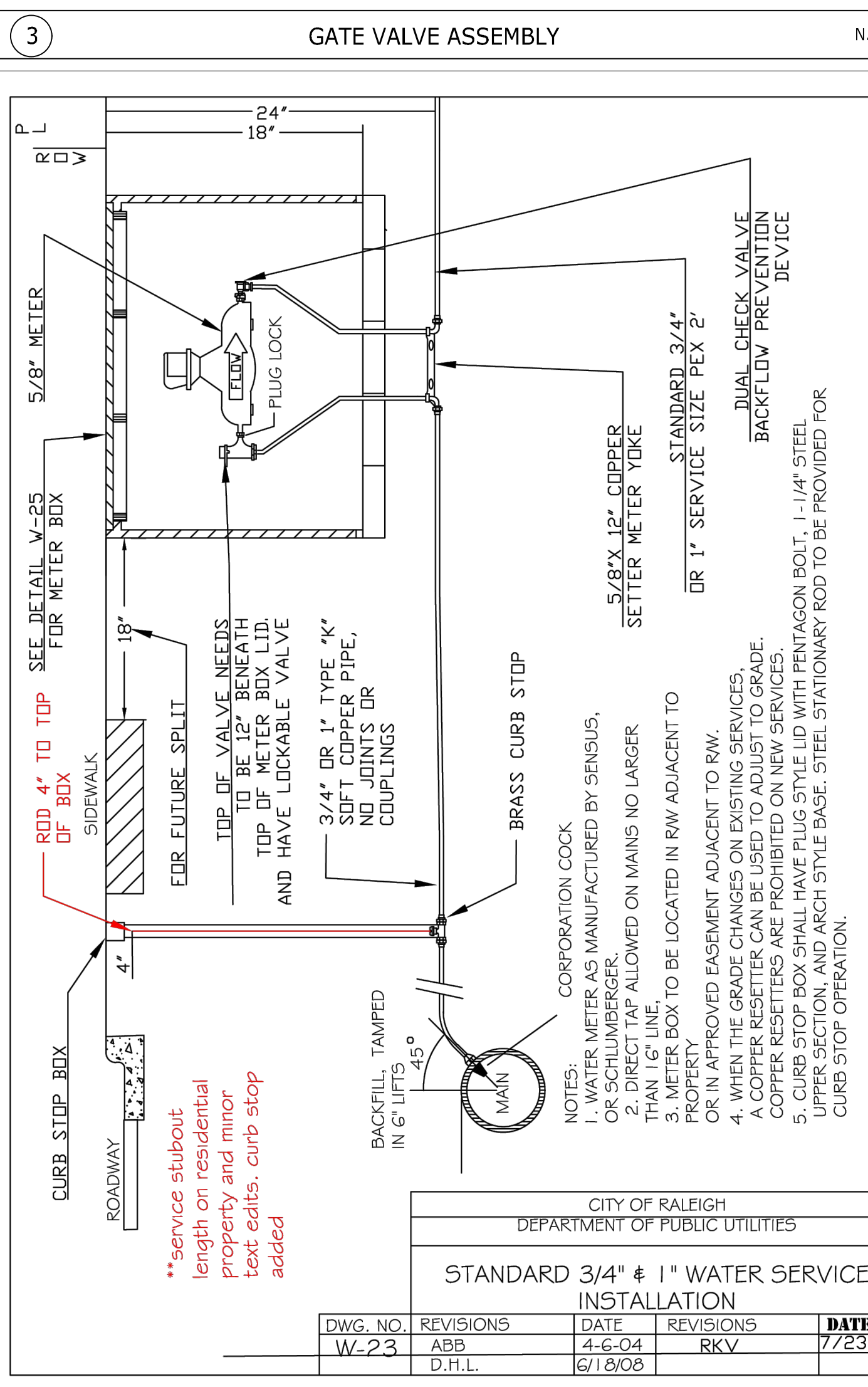
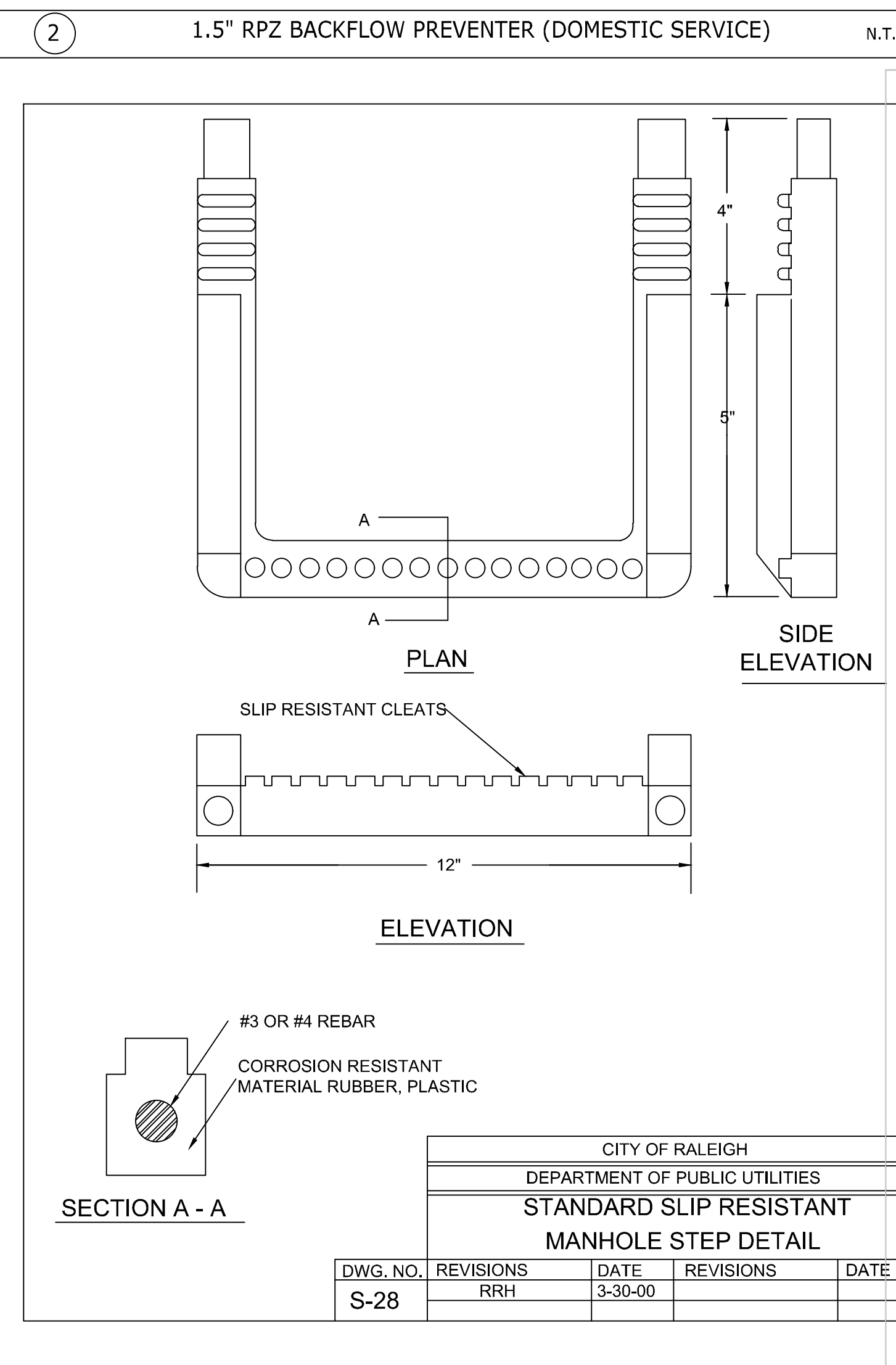
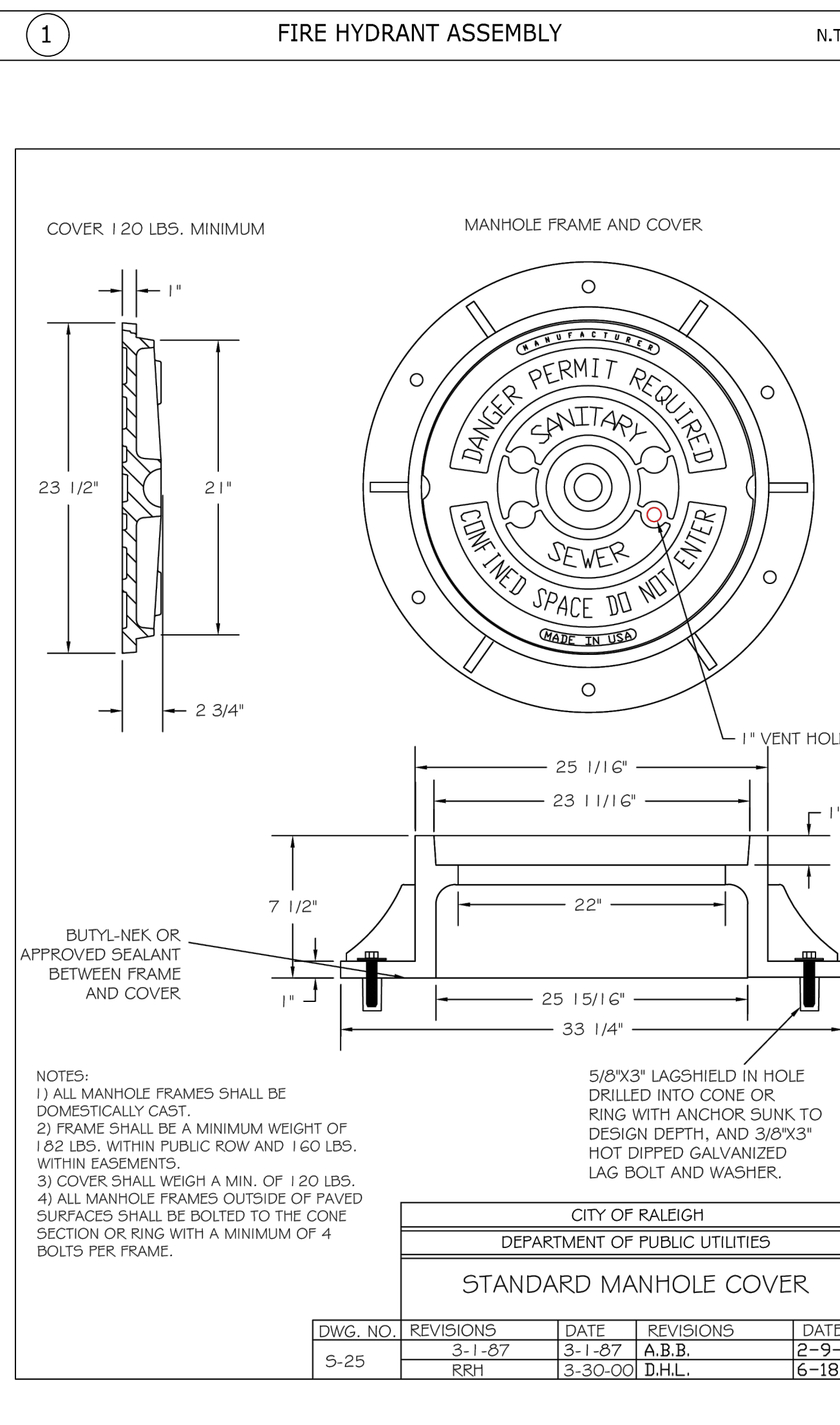
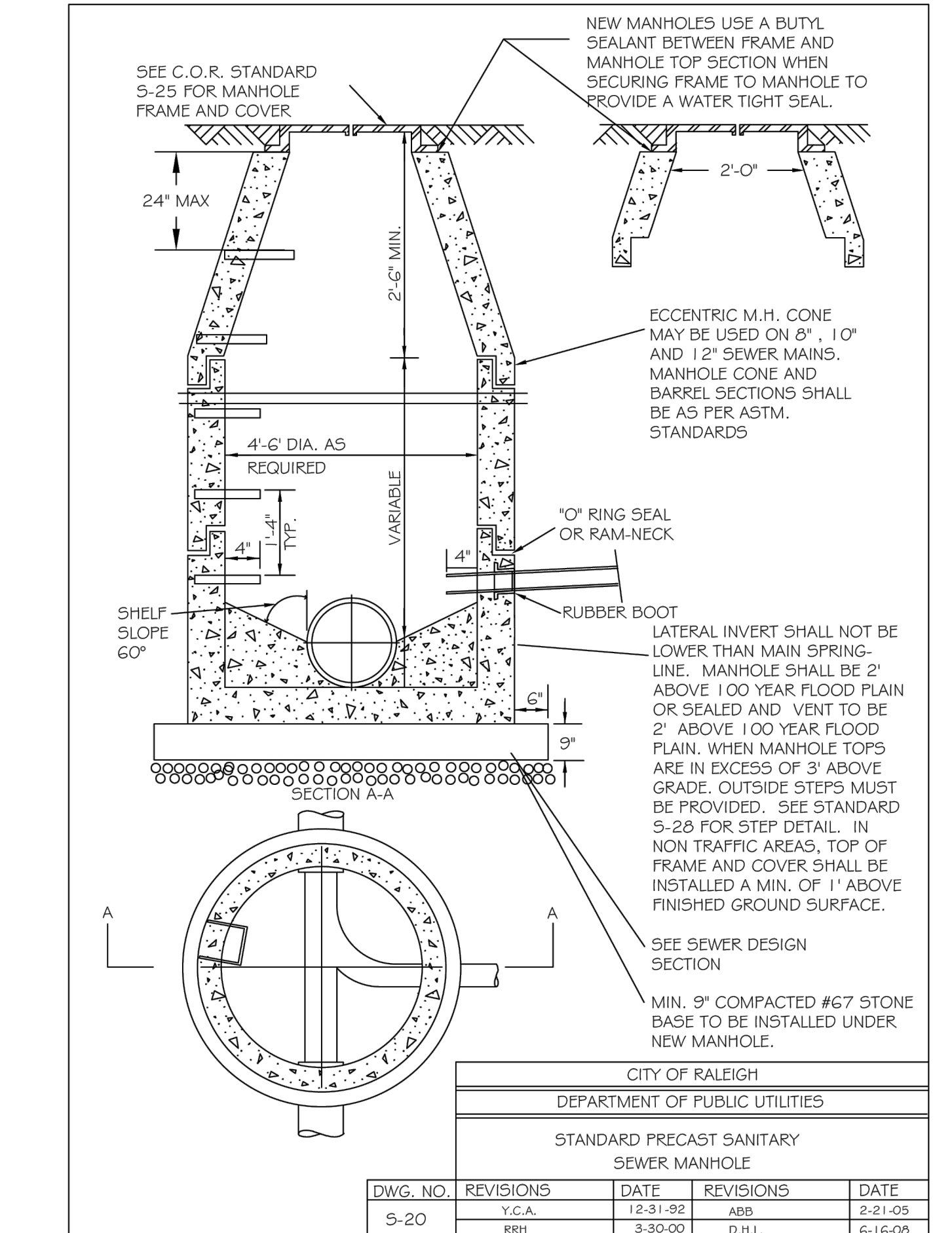
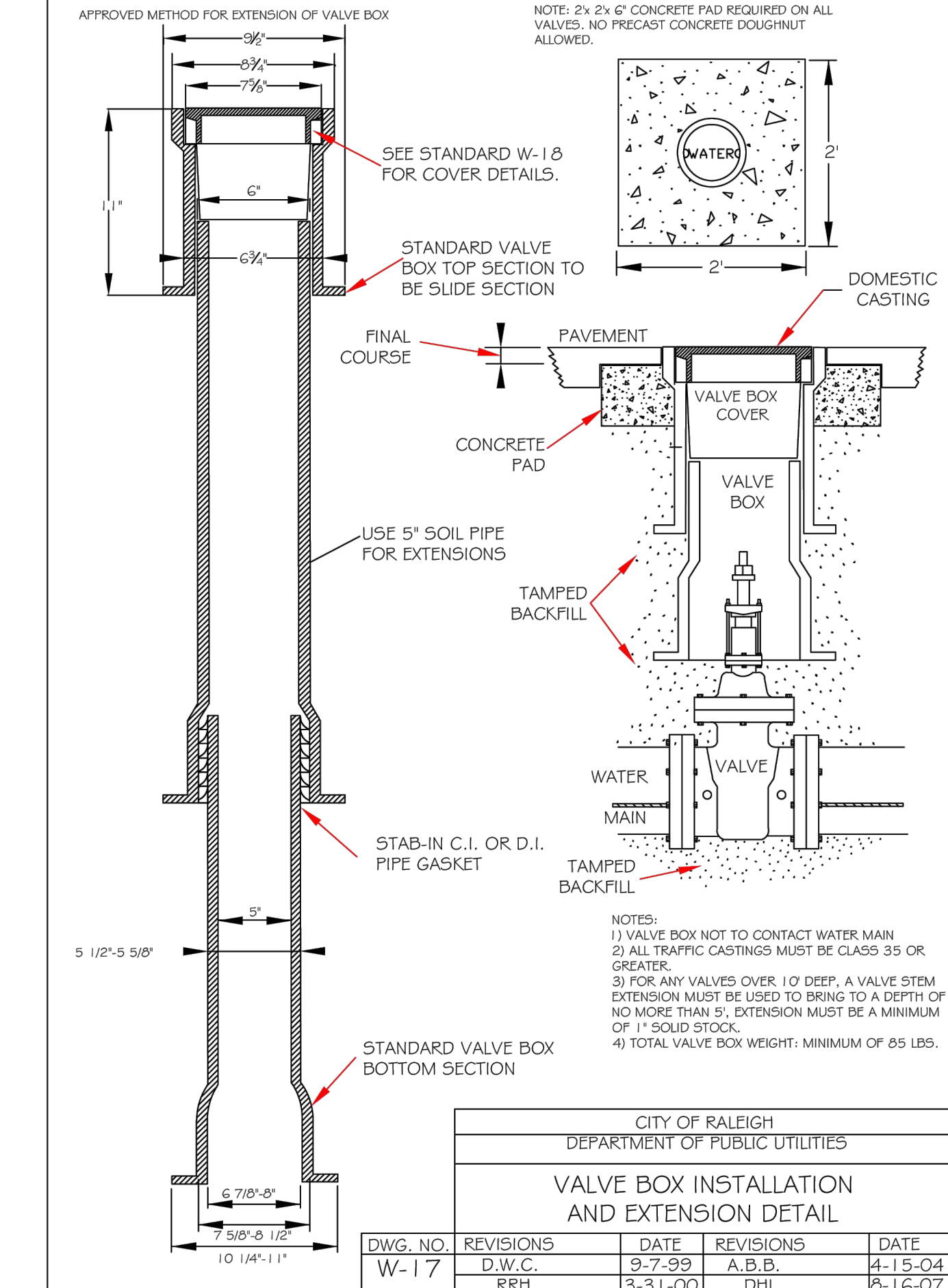
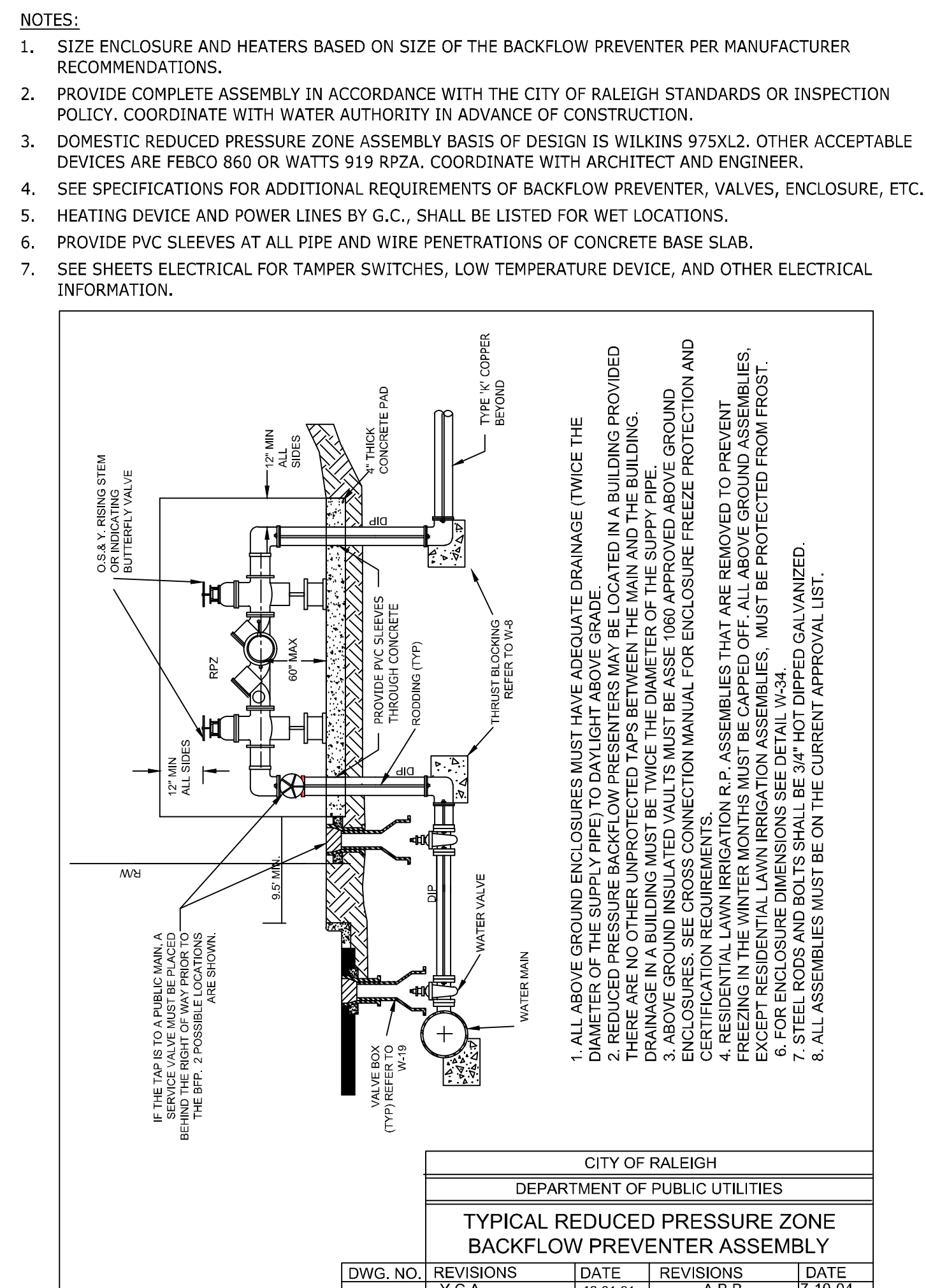
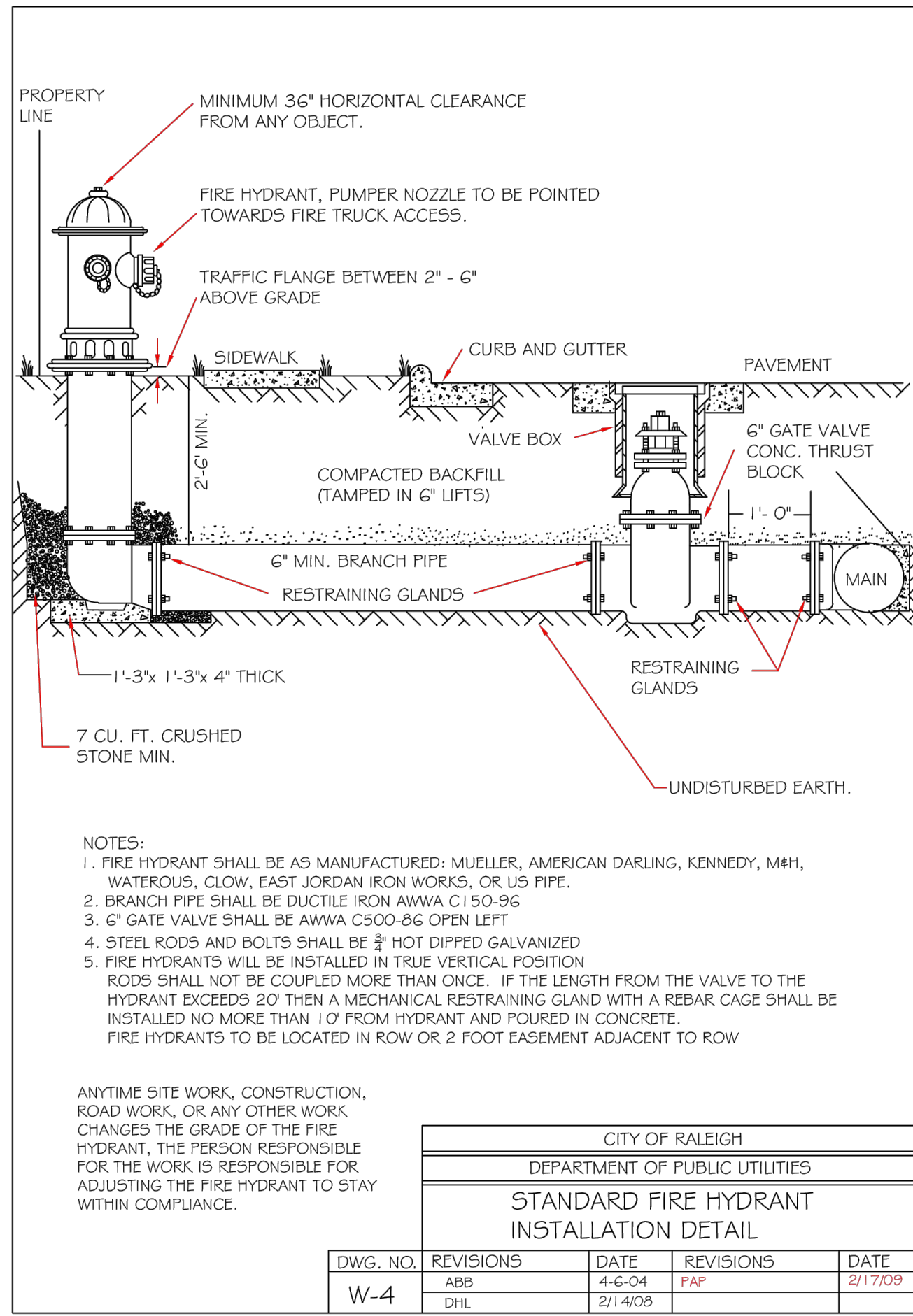
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DATE	06/07/2023
DATE	04/05/2023
DRAWN BY	L. BARNES
DESIGNED BY	G. FRANK
CHECKED BY	G. FRANK
SCALE	AS SHOWN

**TIMMONS GROUP**  
 NORTH CAROLINA LICENSE NO. C-1652  
**JONES DAIRY STORAGE FACILITY**  
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
 SITE DETAILS

JOB NO.	54832
SHEET NO.	C6.2

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⑤ SANITARY SEWER MANHOLE RING & COVER N.T.S.

⑥ MANHOLE STEPS N.T.S.

⑦ 1" WATER METER AND VAULT N.T.S.

⑧ FIRE SERVICE BACKFLOW (8" RPDA) N.T.S.

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06/07/2023	ADDRESSED TOWN OF ROLESVILLE COMMENTS
08/07/2023	ADDRESSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS
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DATE	DATE
04/05/2023	

DATE	BY
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	G. FRANK
	G. FRANK

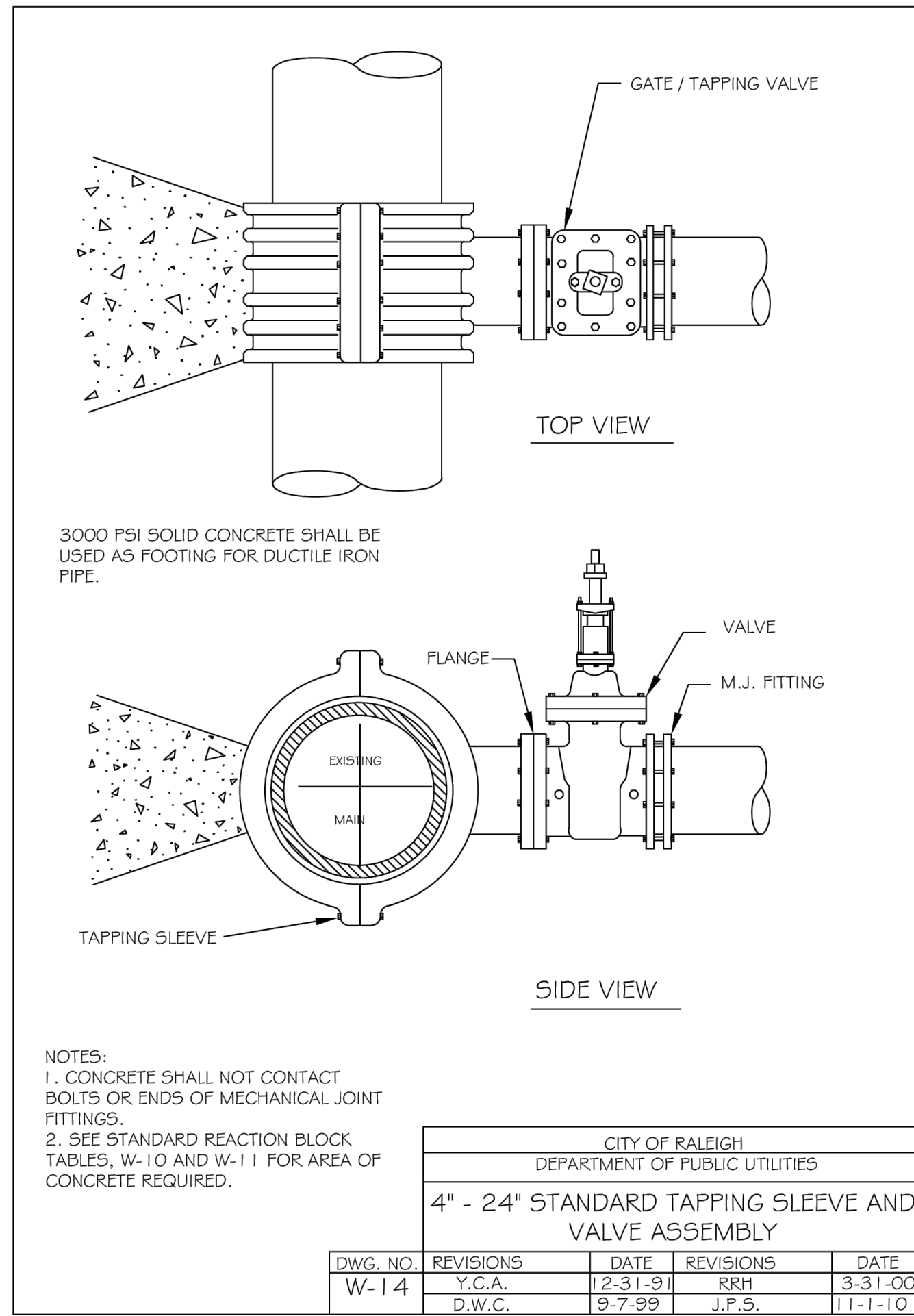
SCALE  
AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652  
 JONES DAIRY STORAGE FACILITY  
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
 SITE DETAILS

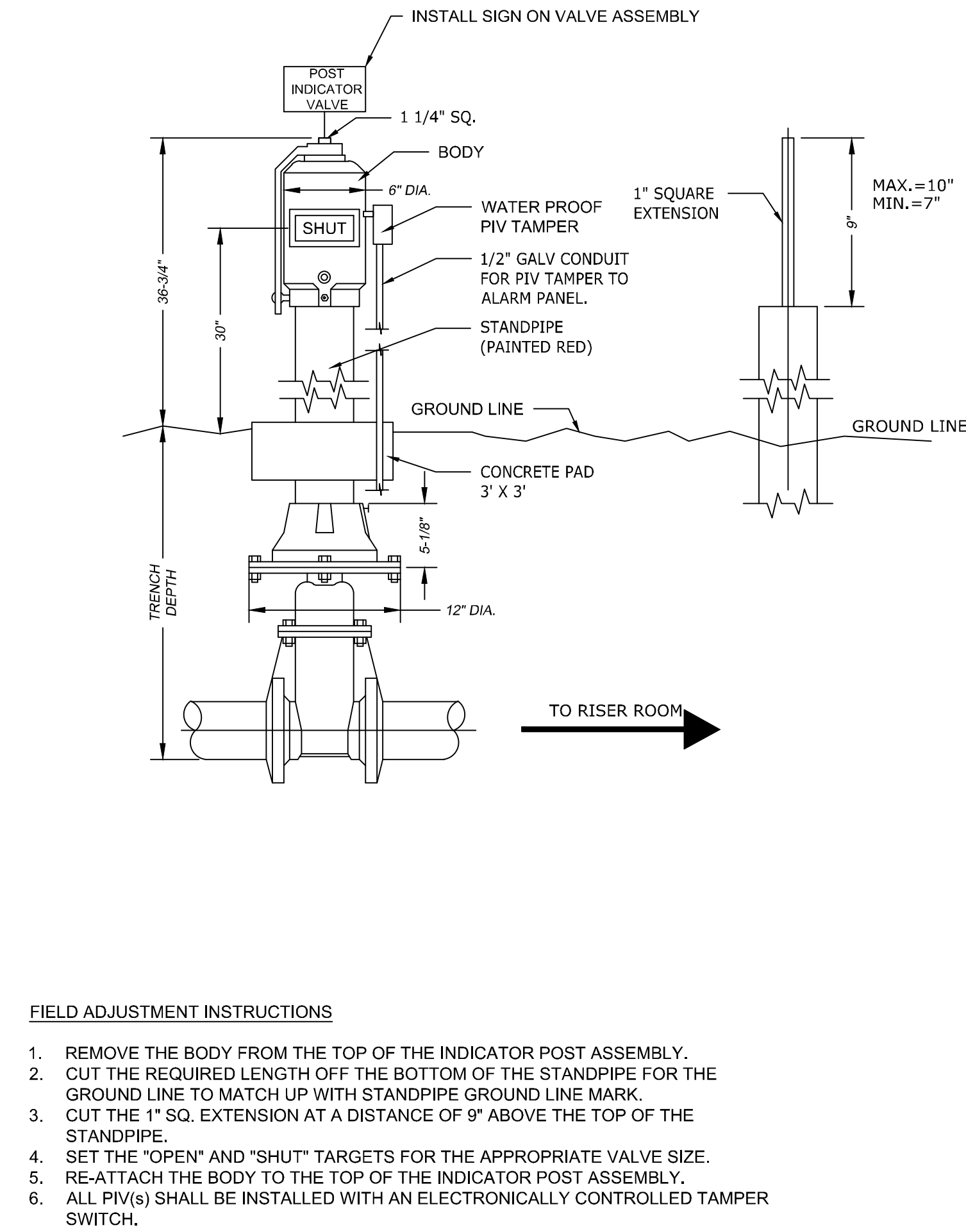
JOB NO.	SHEET NO.
54832	C6.3

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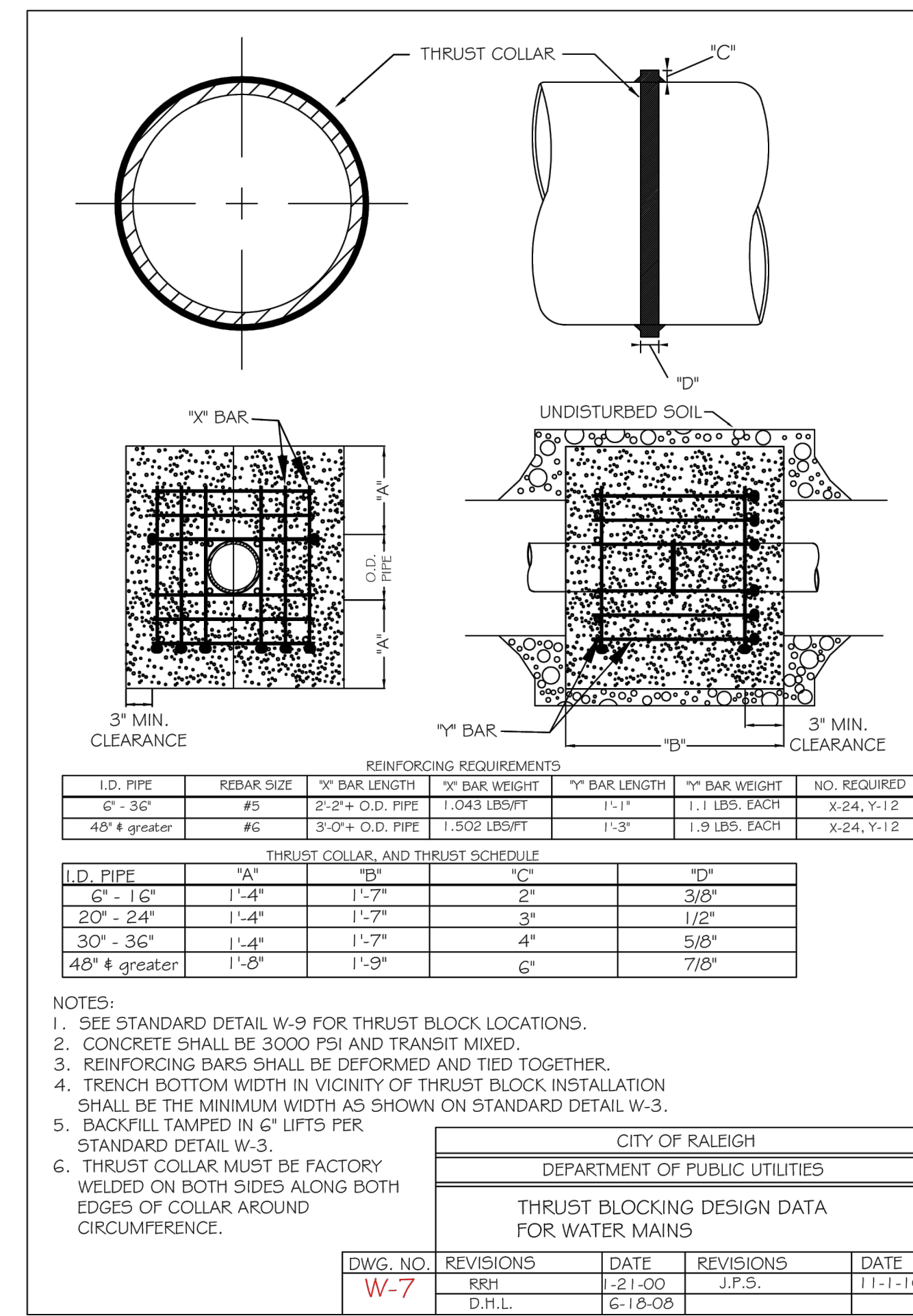
1 TAPPING SLEEVE w/ GATE VALVE

N.T.S.



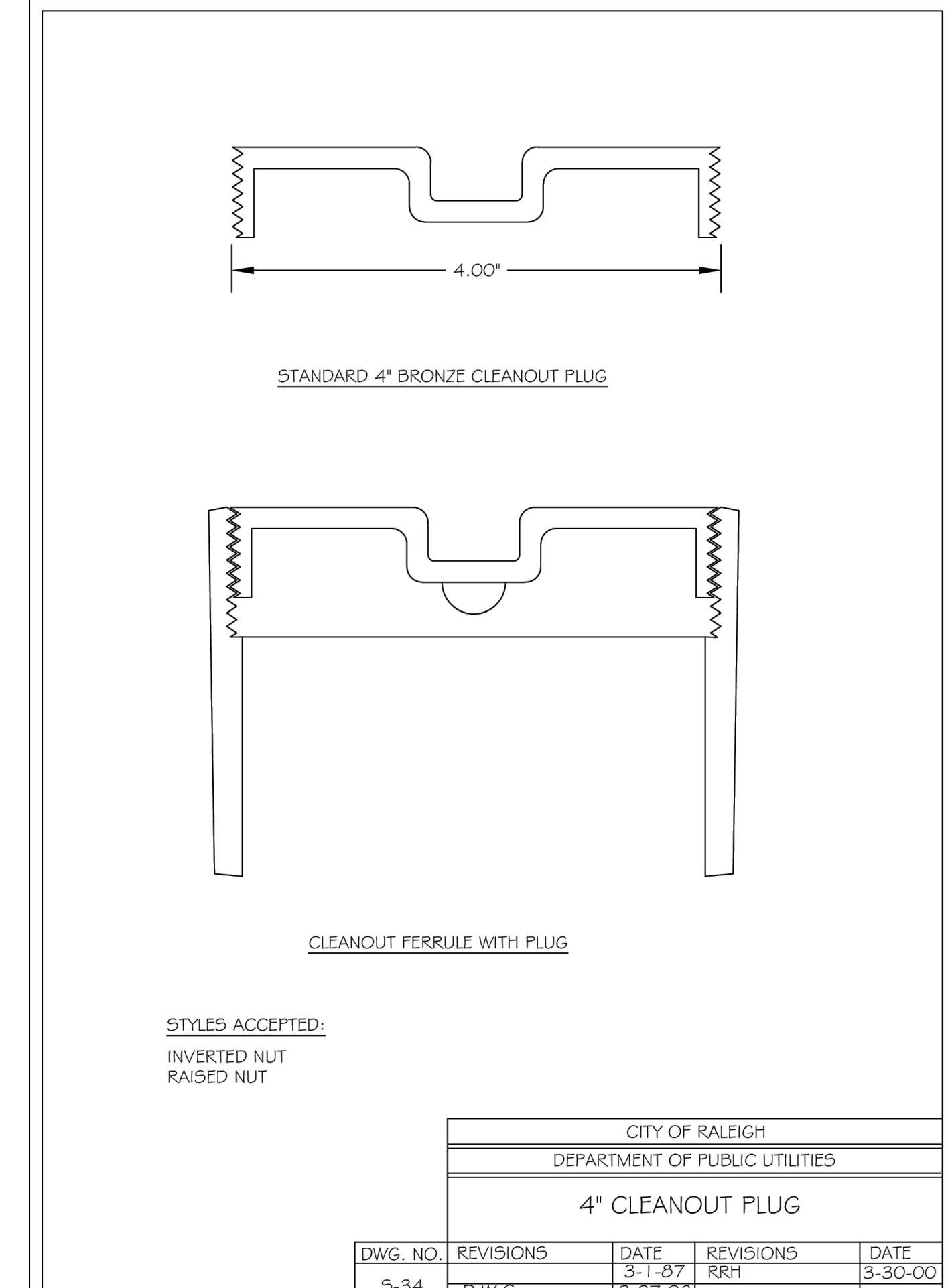
2 POST INDICATOR VALVE ASSEMBLY

N.T.S.



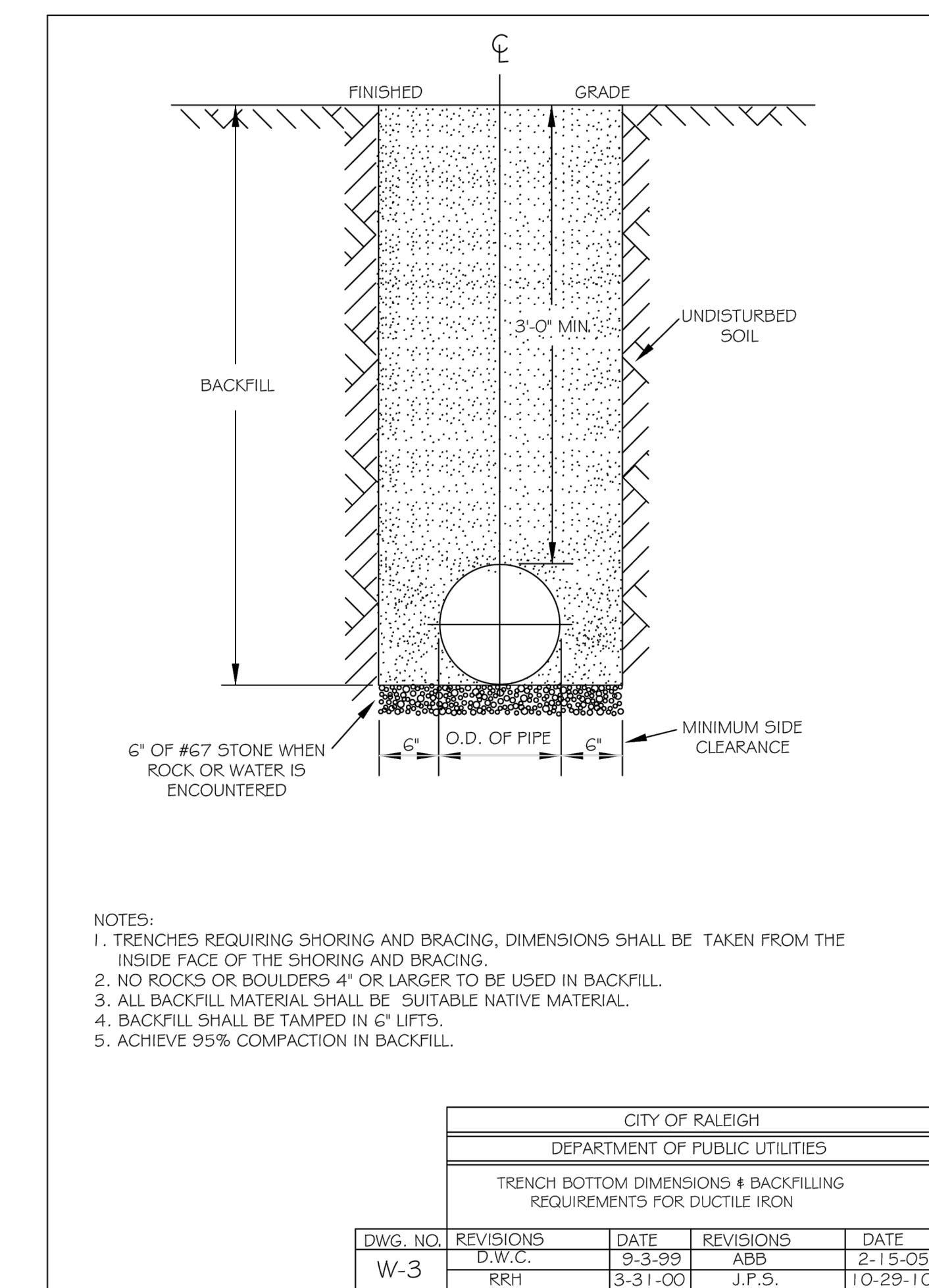
3 THRUST BLOCKING

N.T.S.



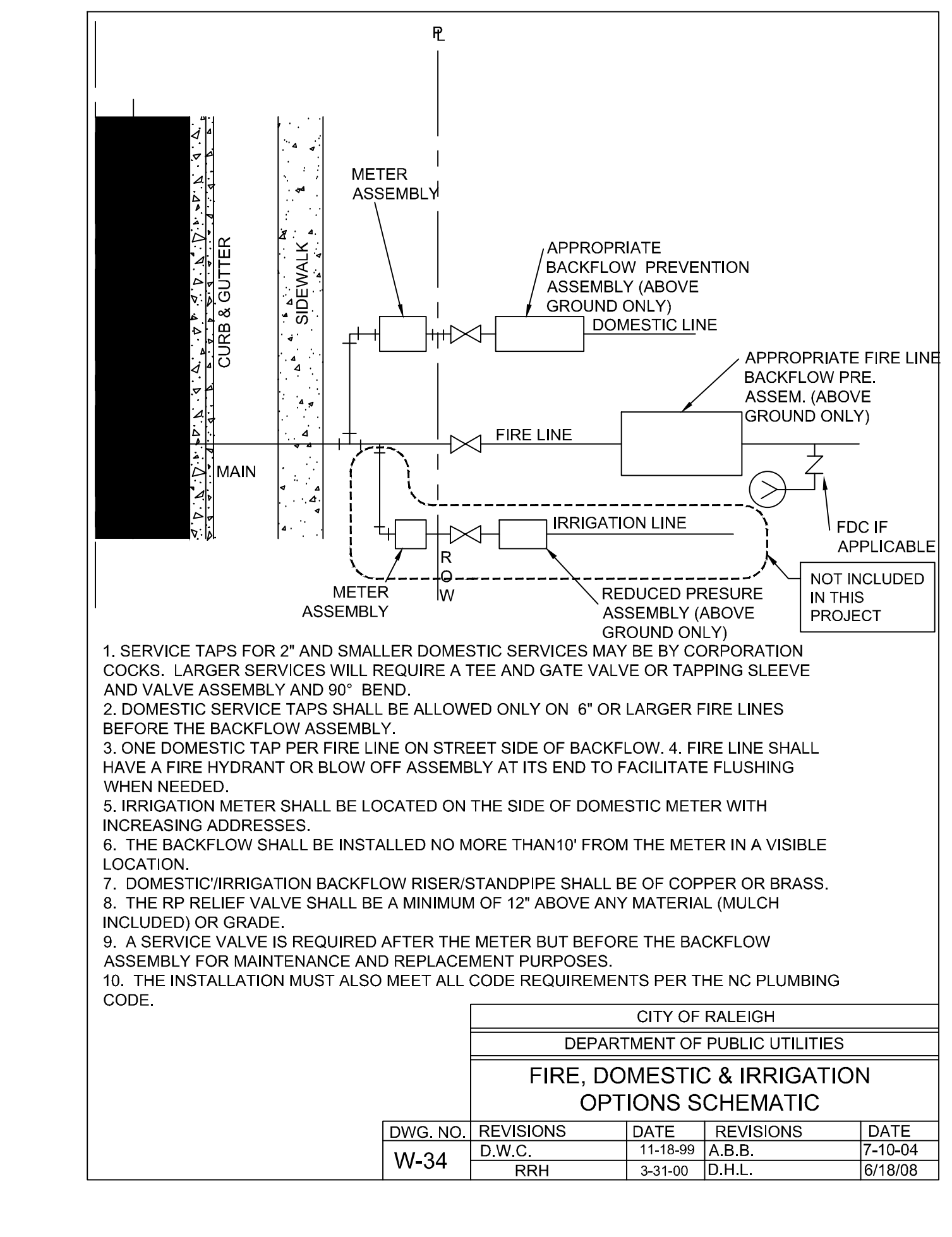
4 SANITARY SEWER CLEANOUT

N.T.S.



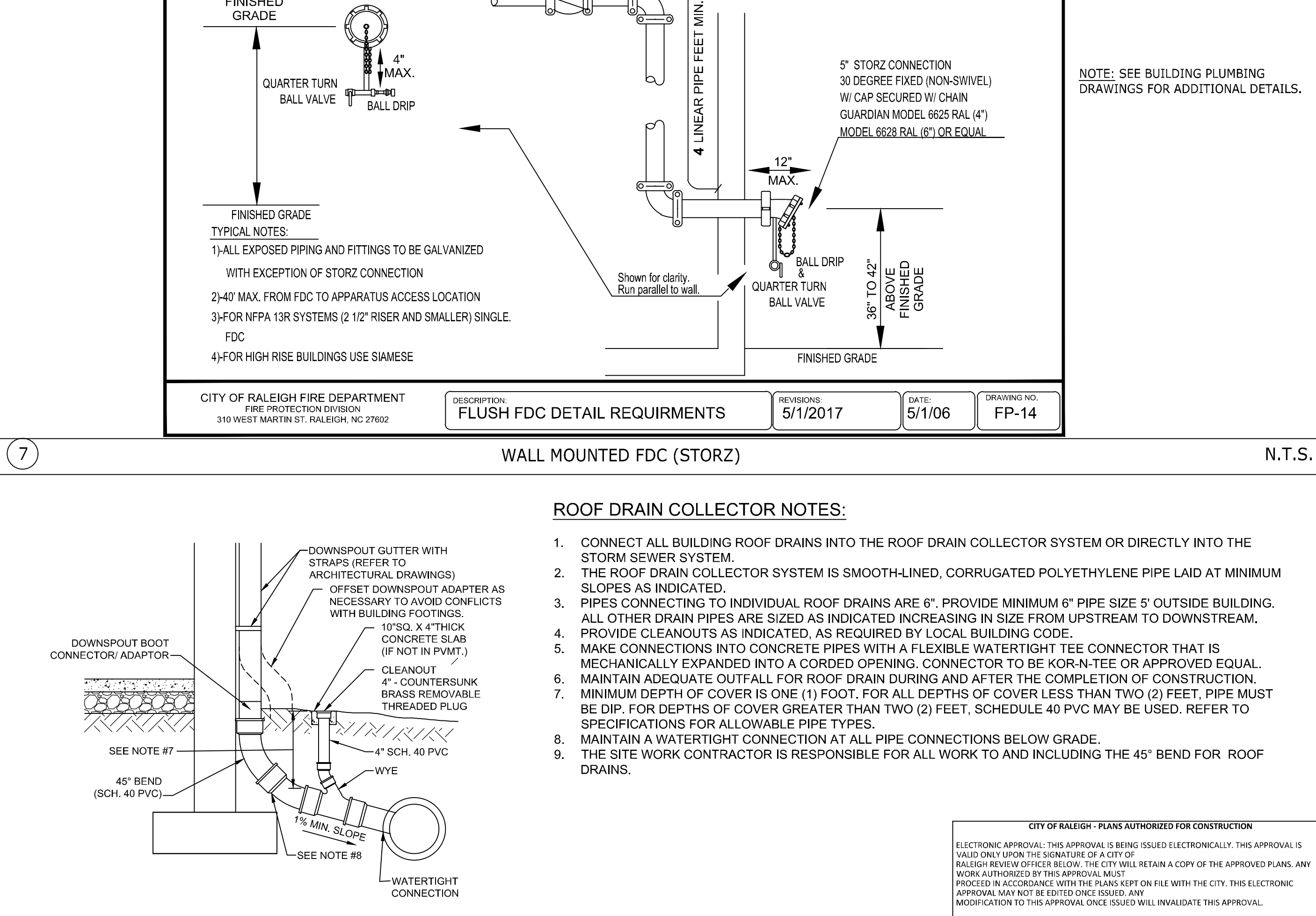
5 UTILITY TRENCHING AND BACKFILL

N.T.S.



6 FIRE, DOMESTIC, & IRRIGATION OPTIONS

N.T.S.



7 WALL MOUNTED FDC (STORZ)

N.T.S.

8 4" X 5" DOWNSPOUT BOOT CONNECTOR



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DATE

04/05/2023

DRAWN BY

L. BARNES

DESIGNED BY

G. FRANK

CHECKED BY

G. FRANK

SCALE

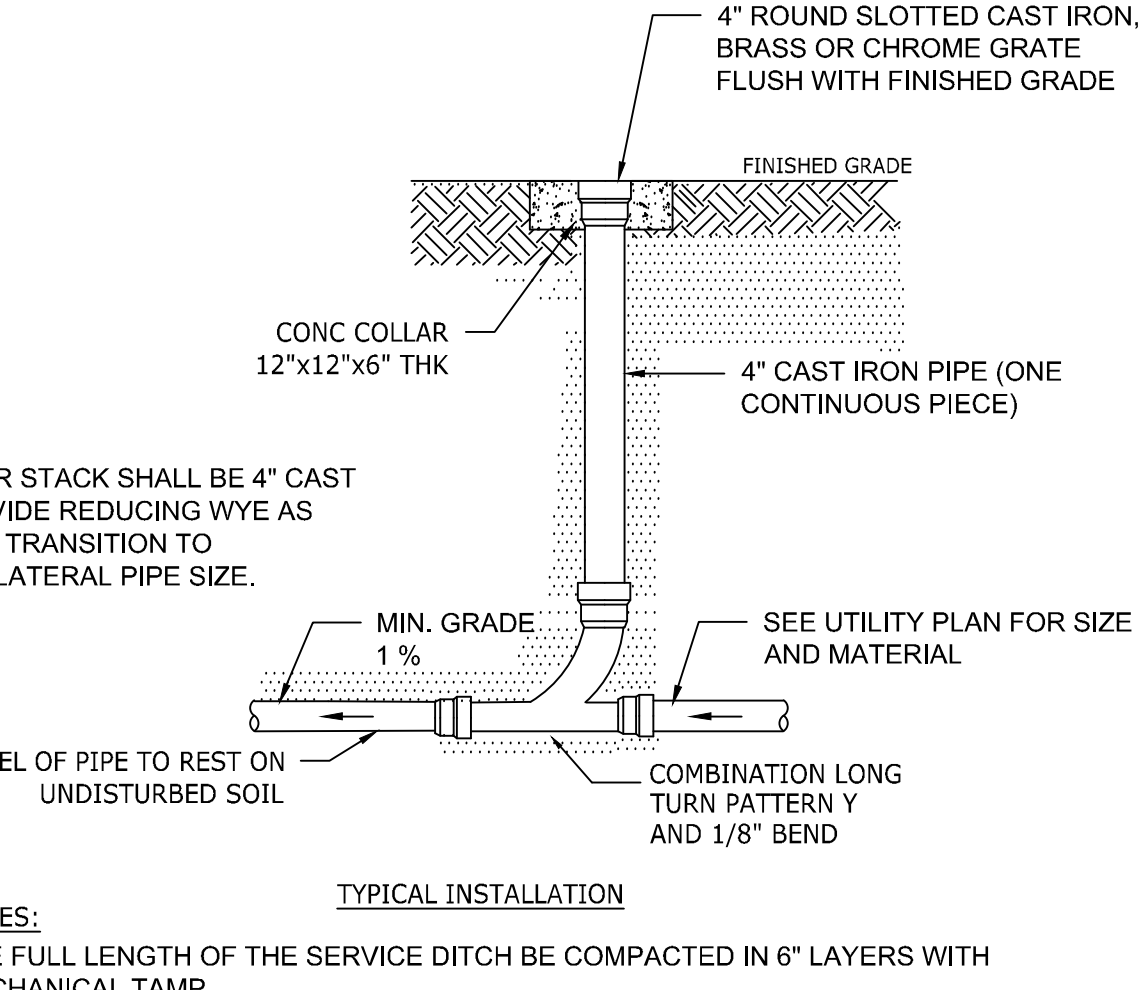
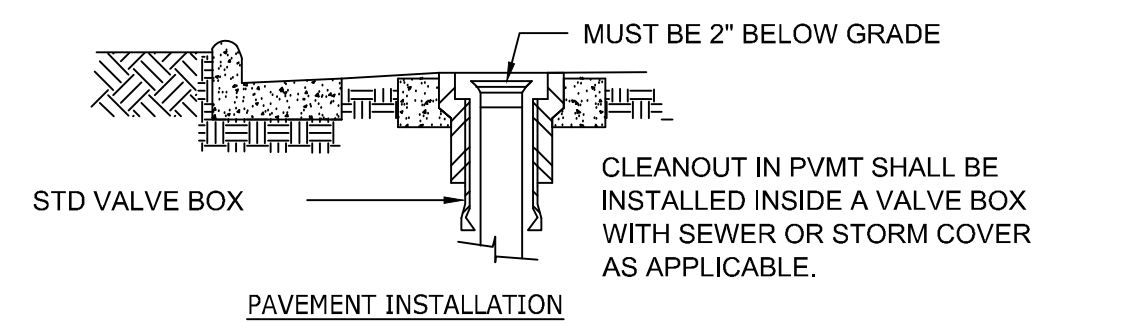
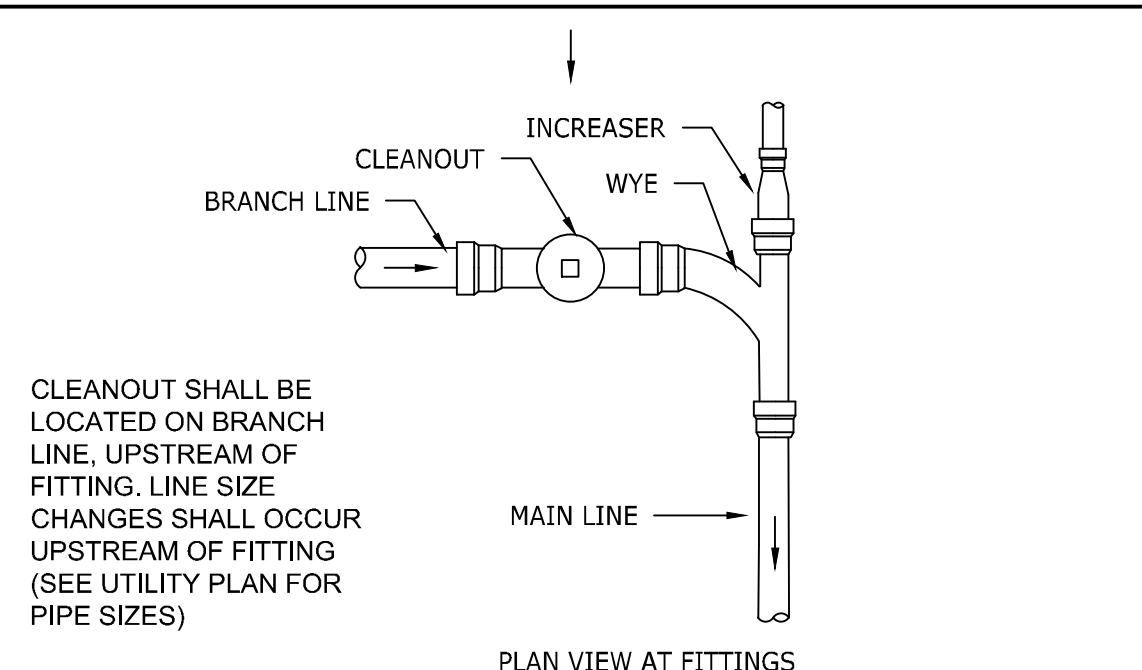
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**JONES DAIRY STORAGE FACILITY**  
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**SITE DETAILS**

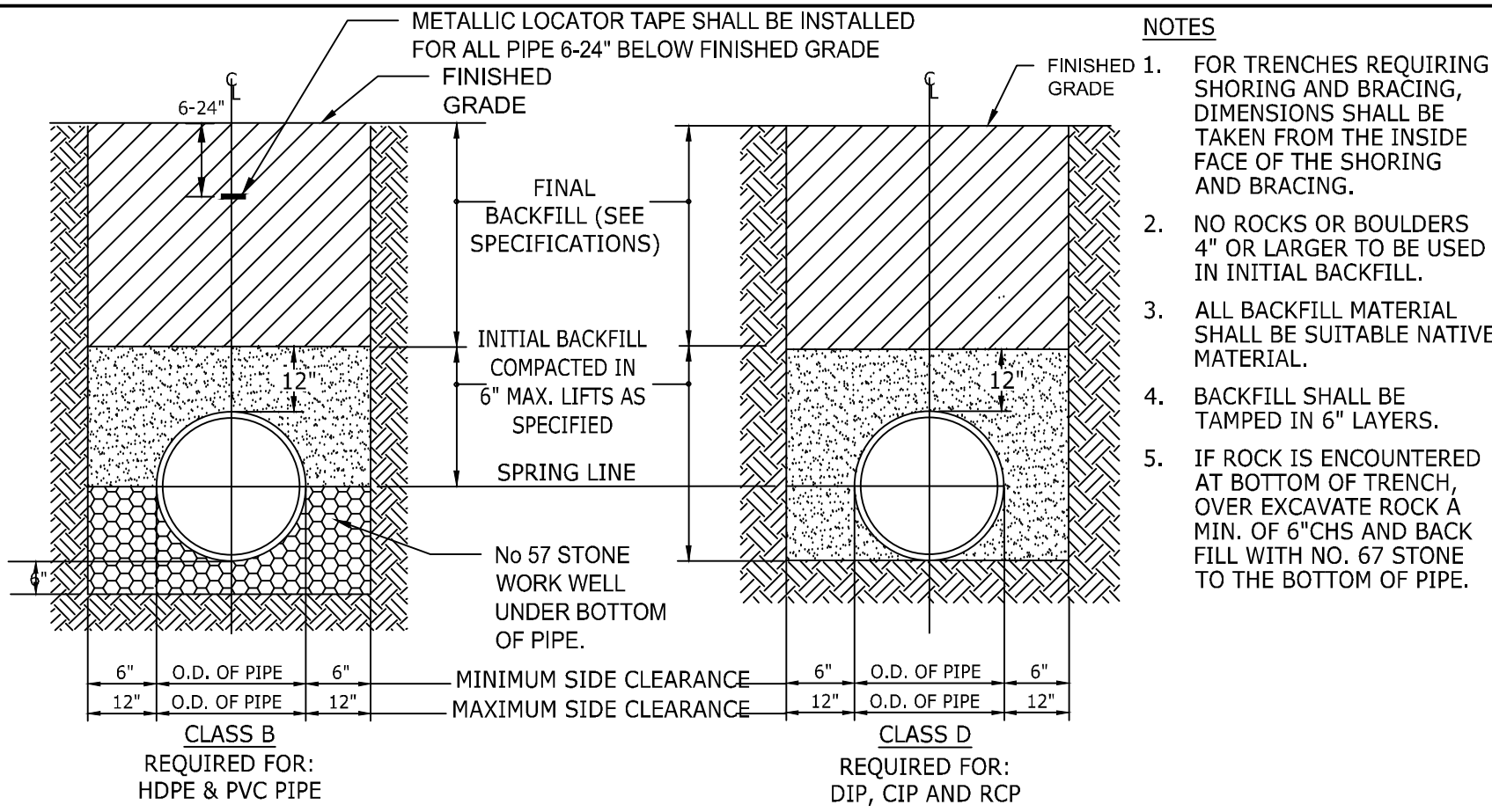
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SHEET NO.  
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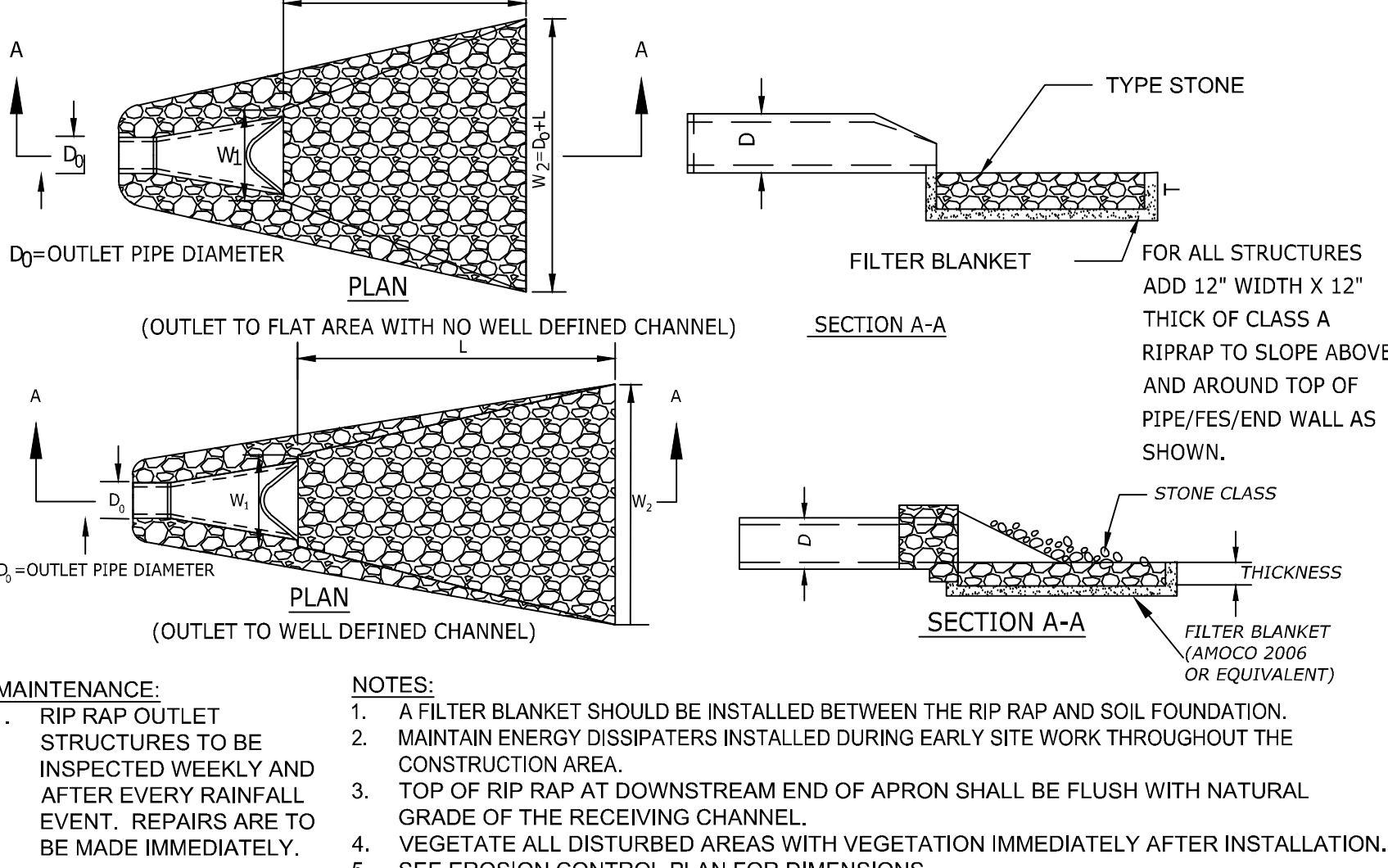
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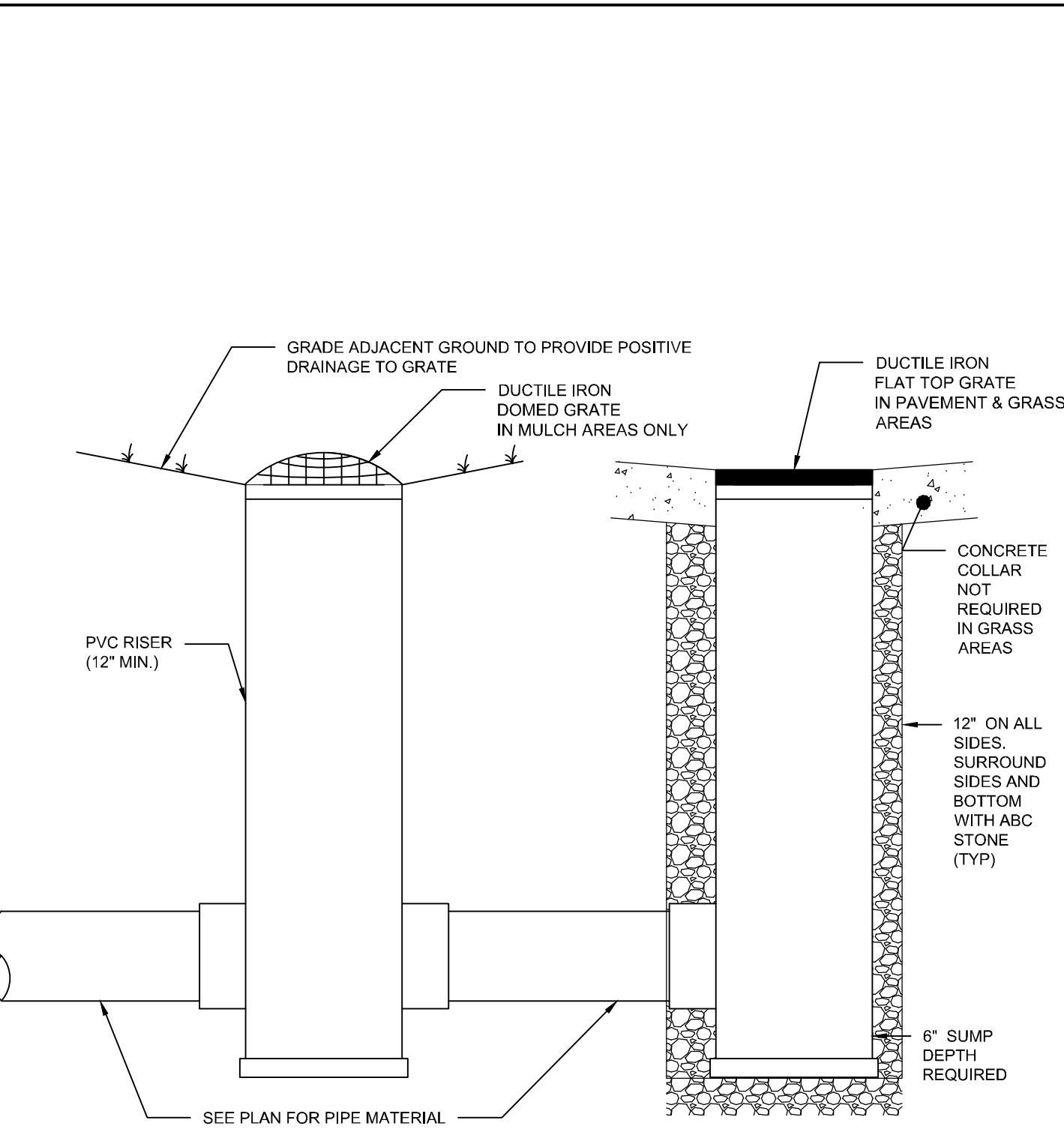
1 STANDARD SEWER CLEANOUT N.T.S.



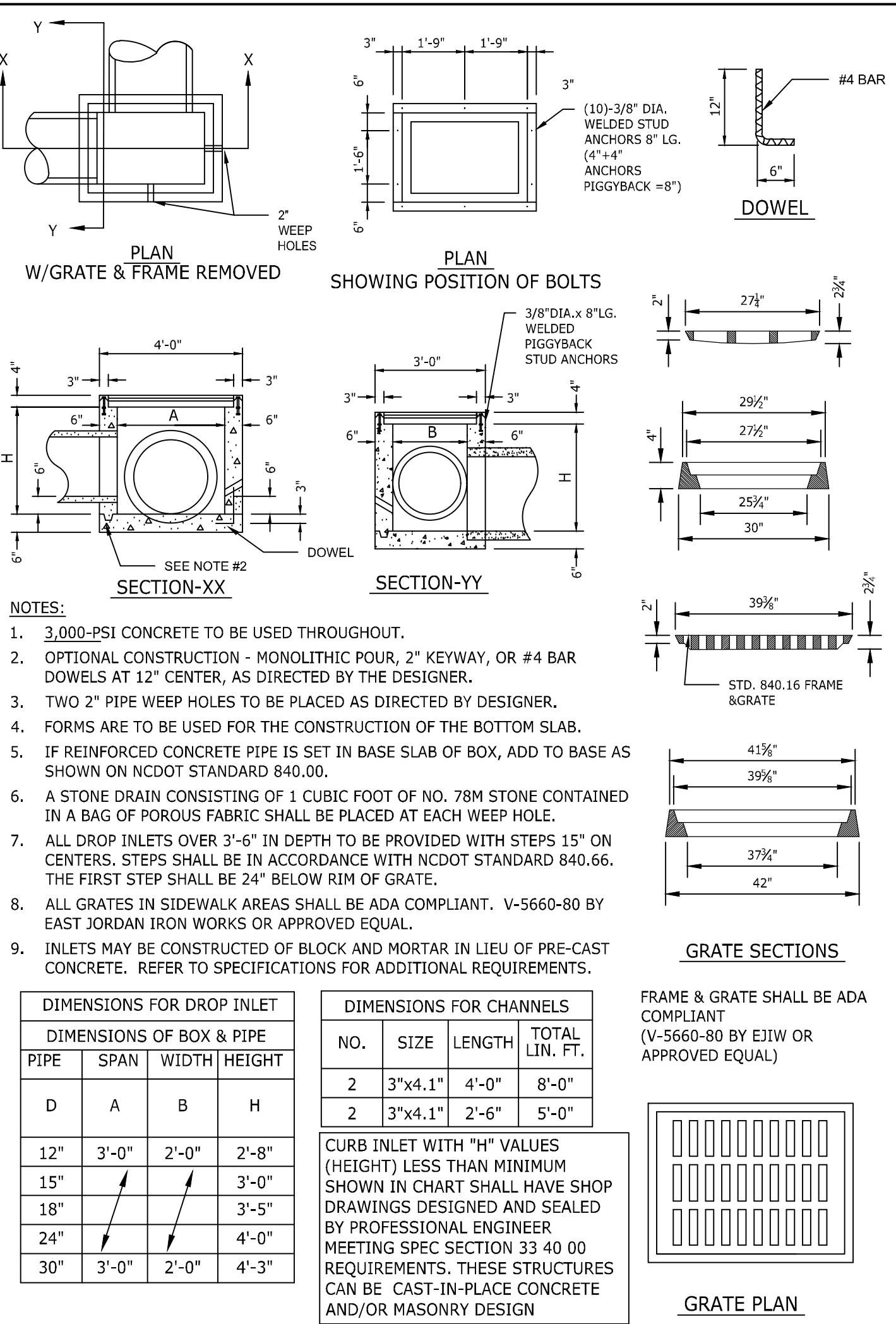
2 STORM SEWER TRENCHES N.T.S.



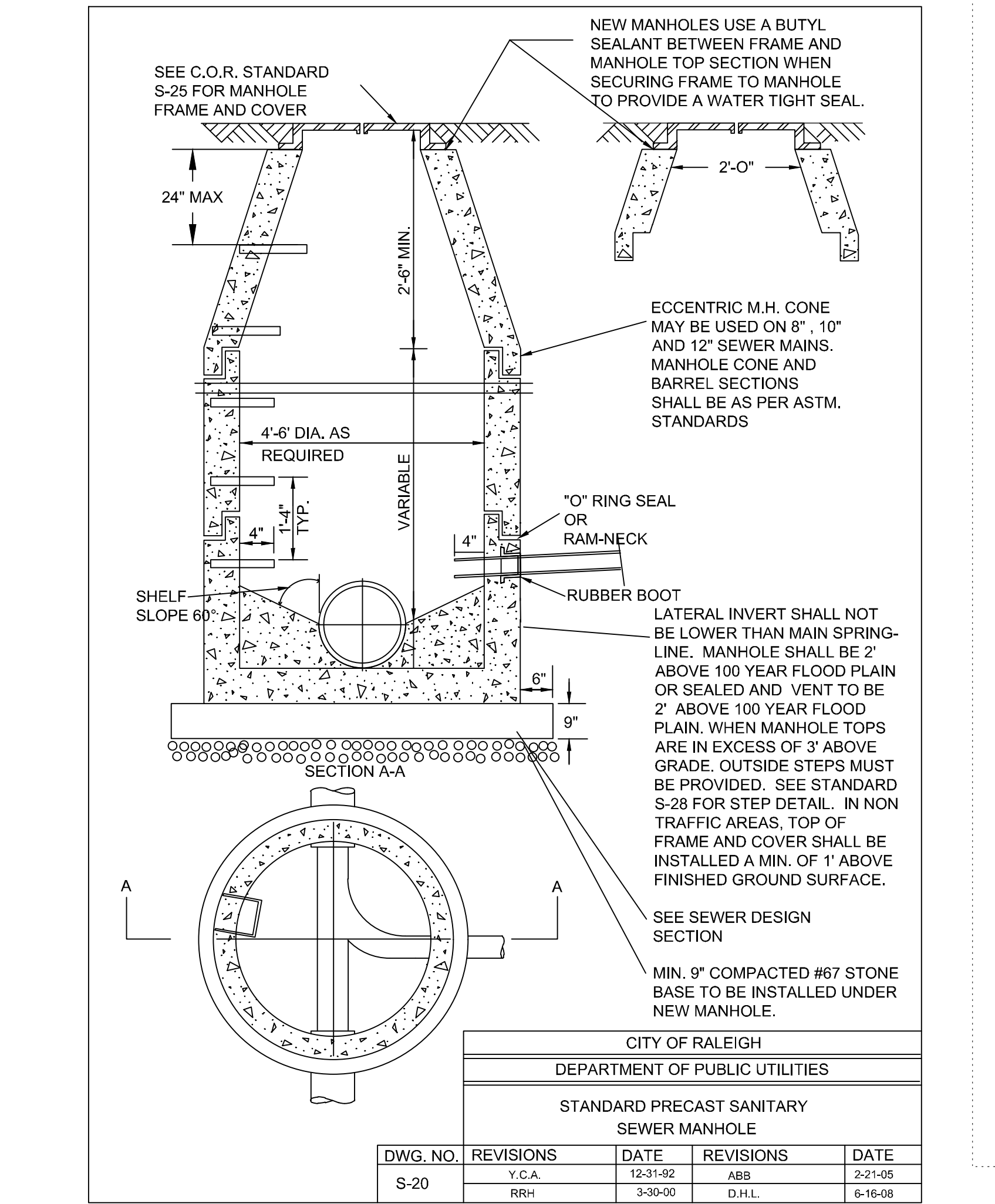
3 FLARED END SECTION N.T.S.



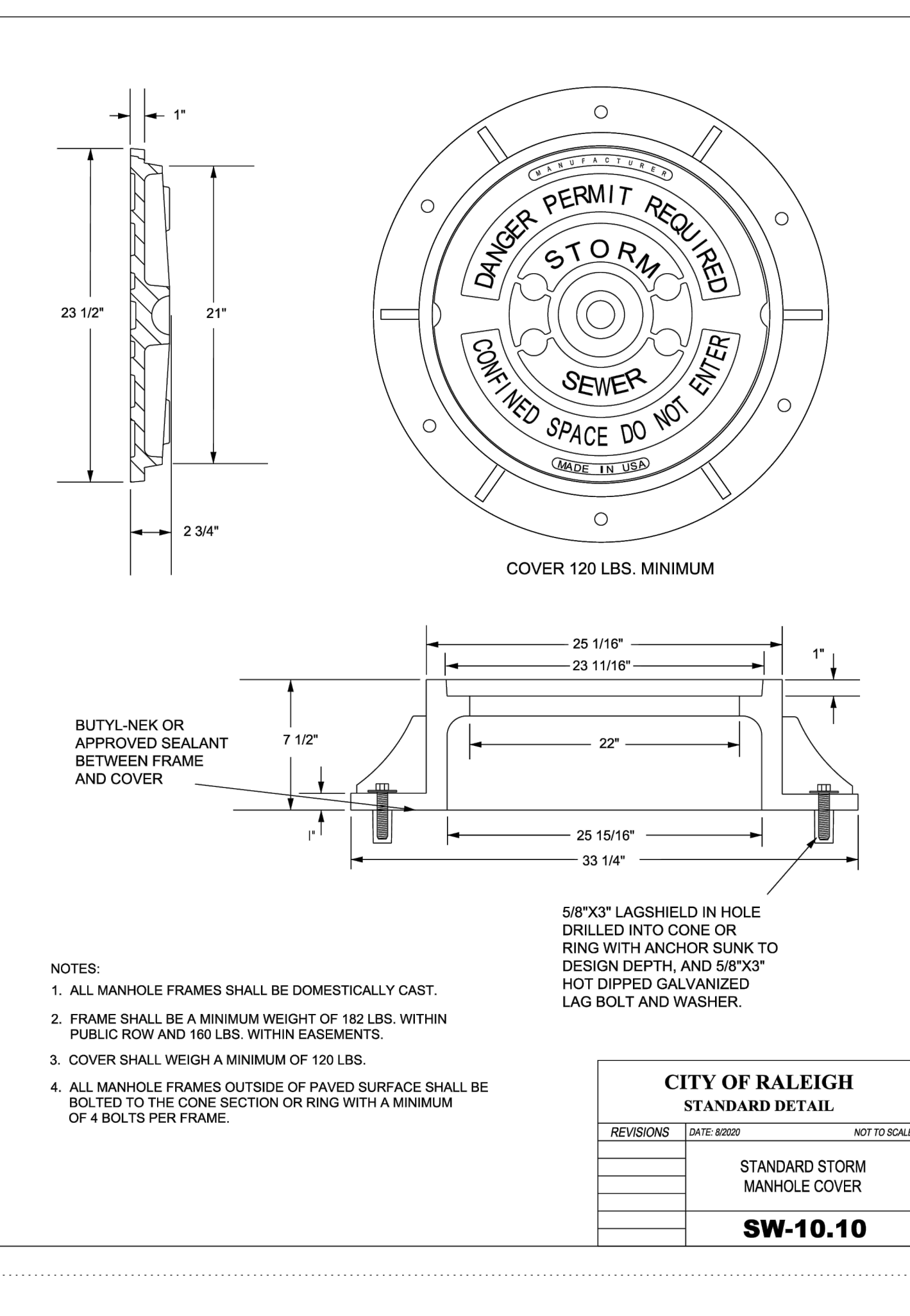
4 YARD INLET N.T.S.



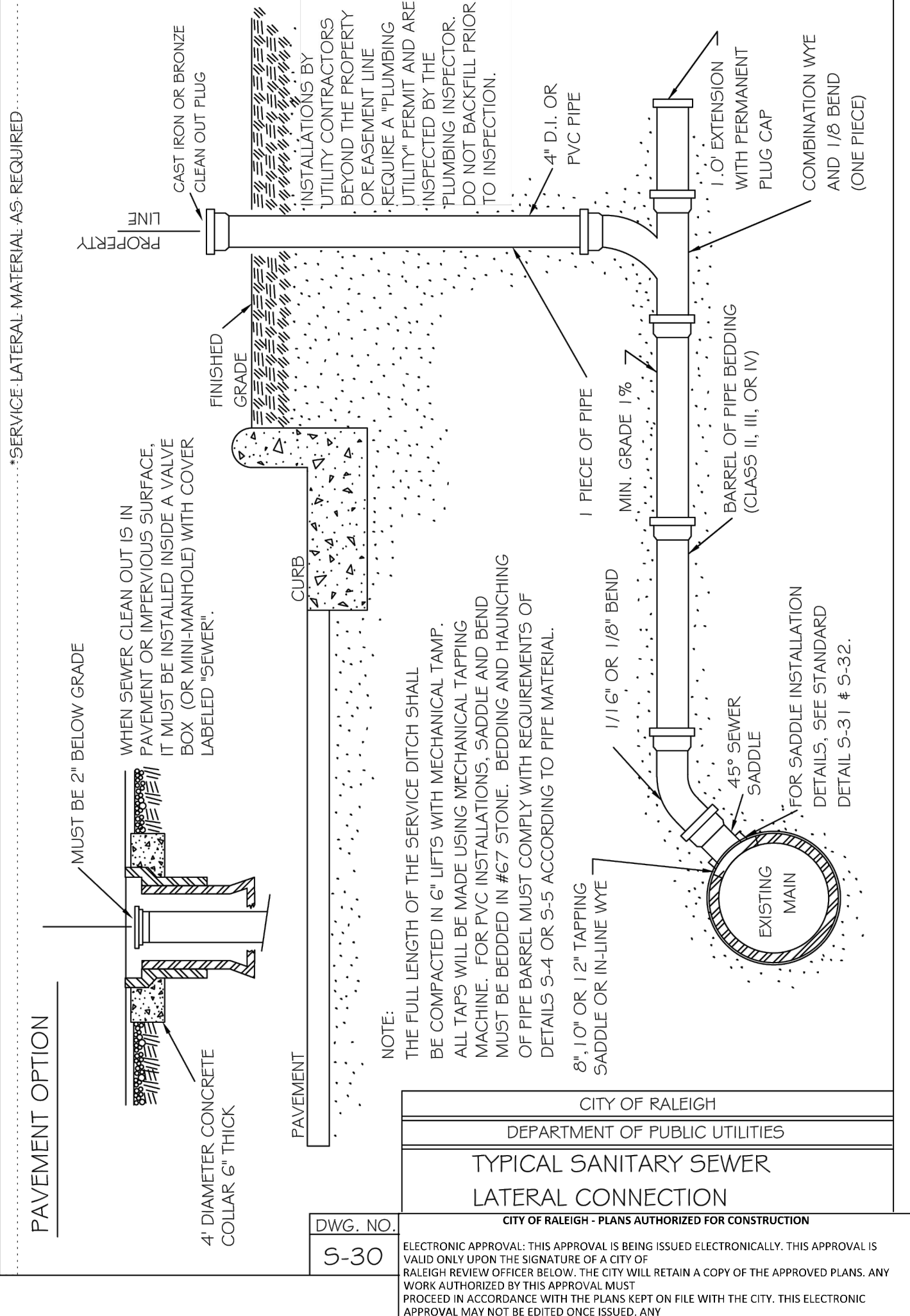
5 STANDARD CONCRETE DROP INLET N.T.S.



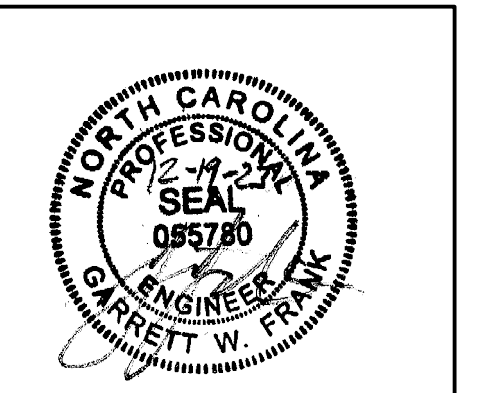
6 SANITARY SEWER MANHOLE N.T.S.



7 STANDARD STORM MANHOLE COVER N.T.S.



8 SANITARY SEWER N.T.S.



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	DESIGNED BY G. FRANK
	CHECKED BY G. FRANK
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# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

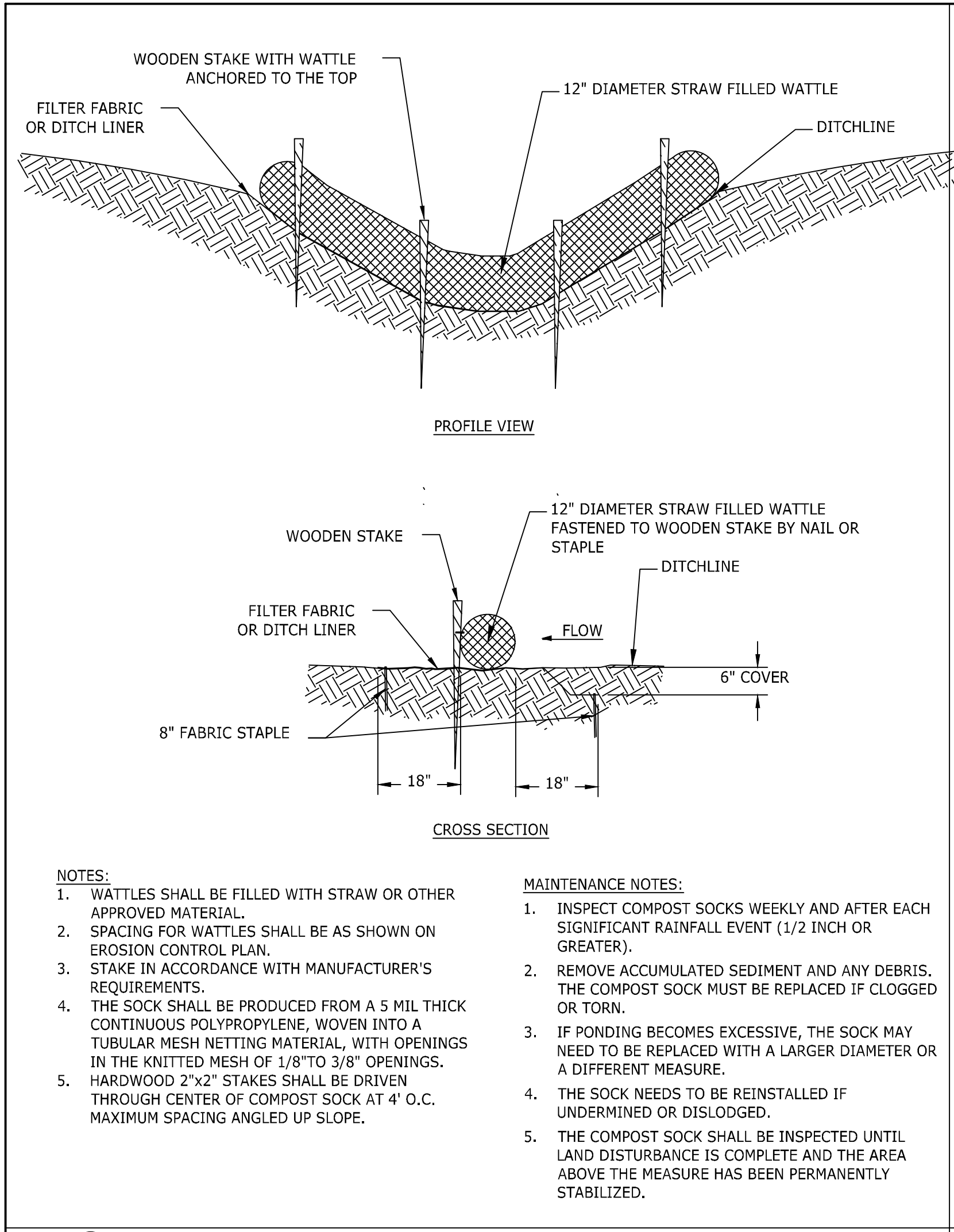
## JONES DAIRY STORAGE FACILITY

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

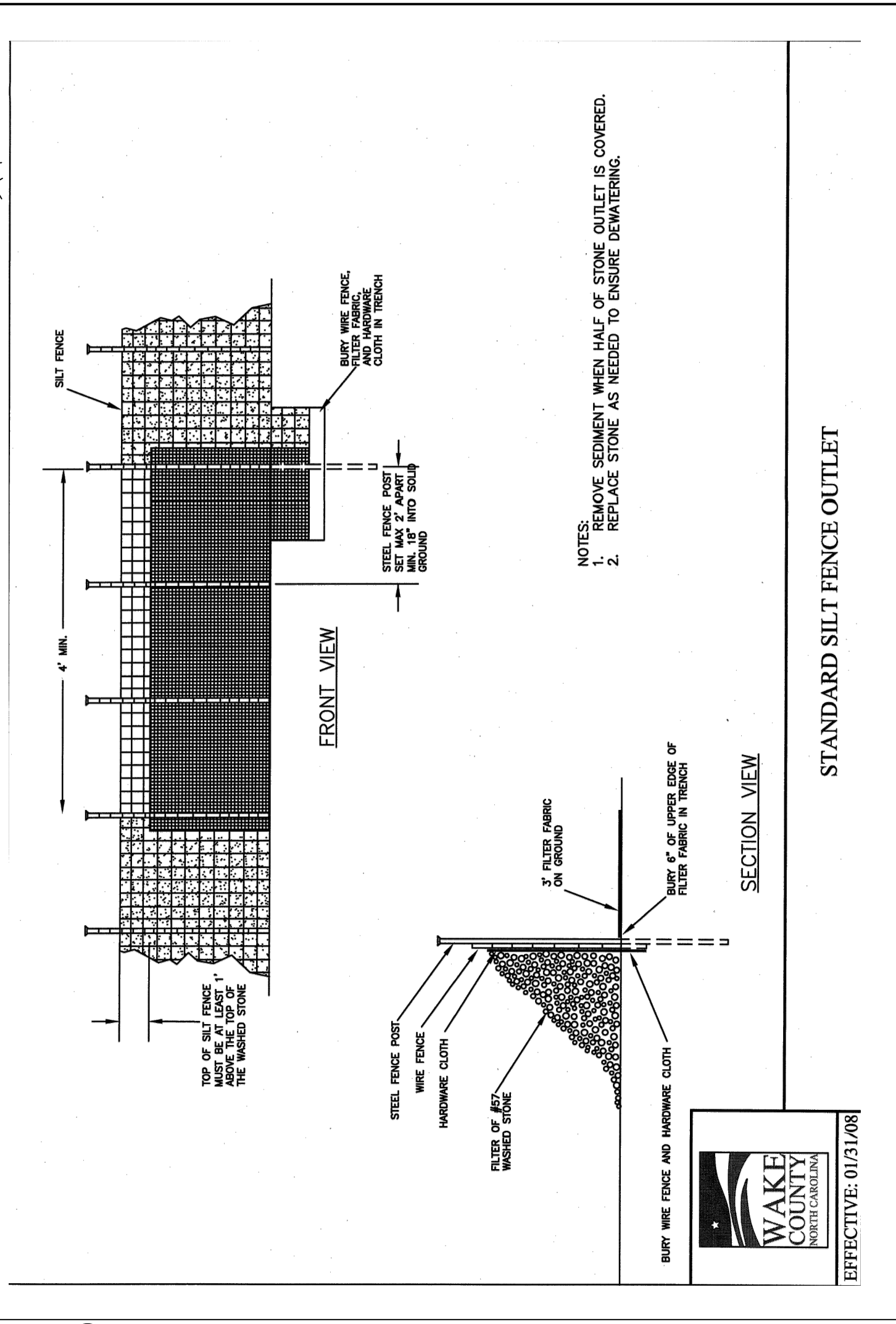
### SITE DETAILS

JOB NO. 54832  
SHEET NO. C6.5

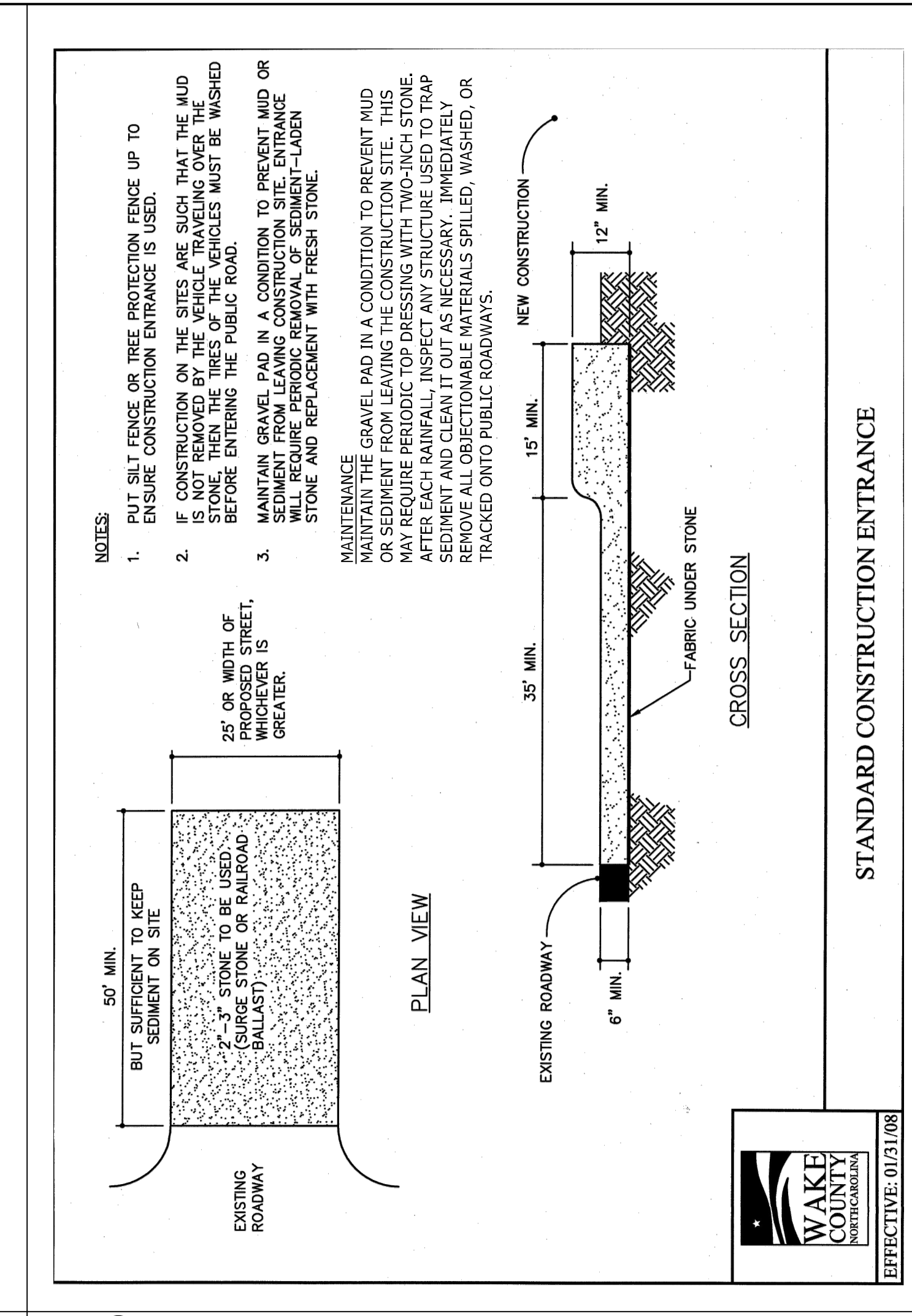
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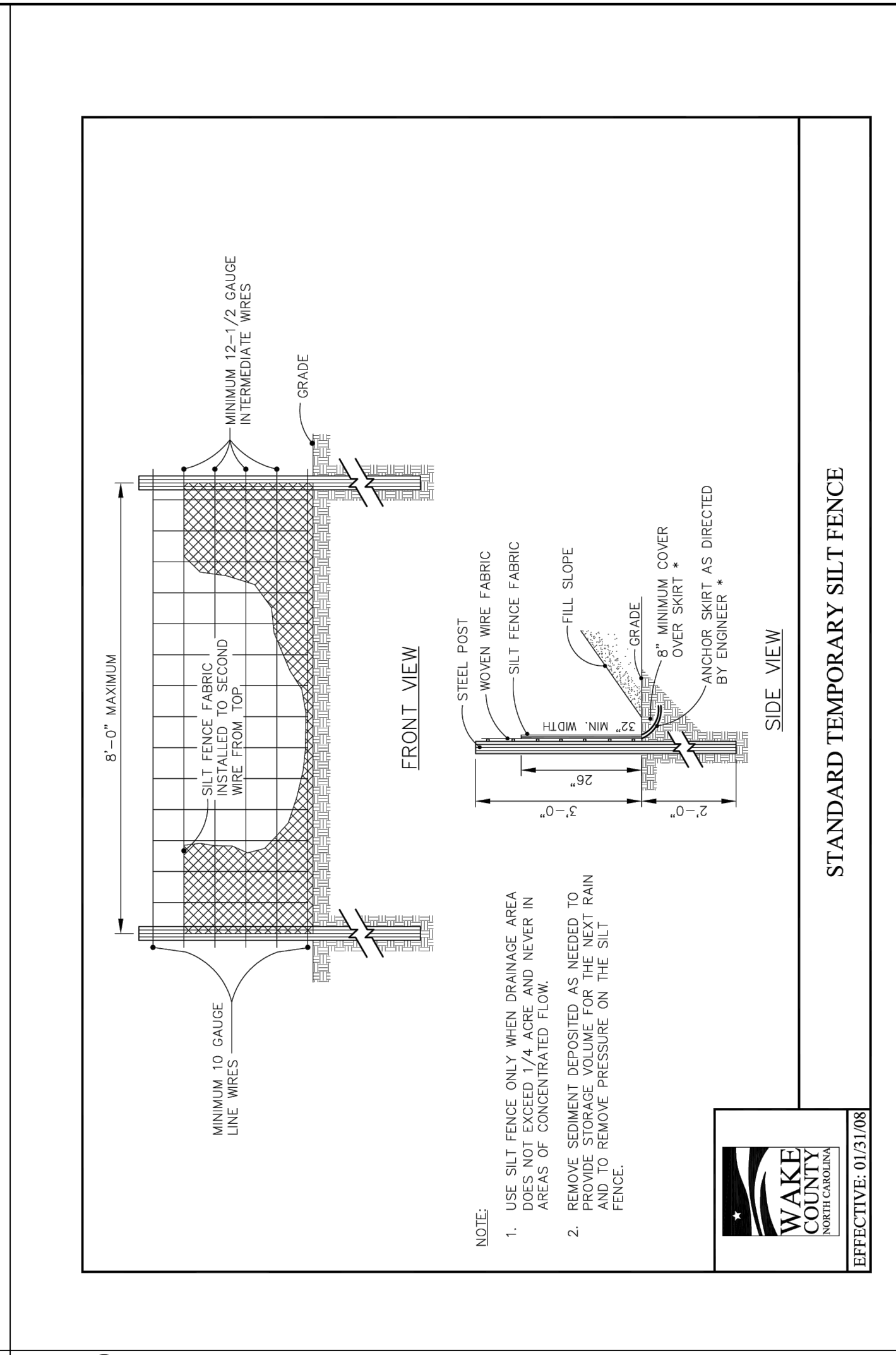
1 CHECK DAM N.T.S.



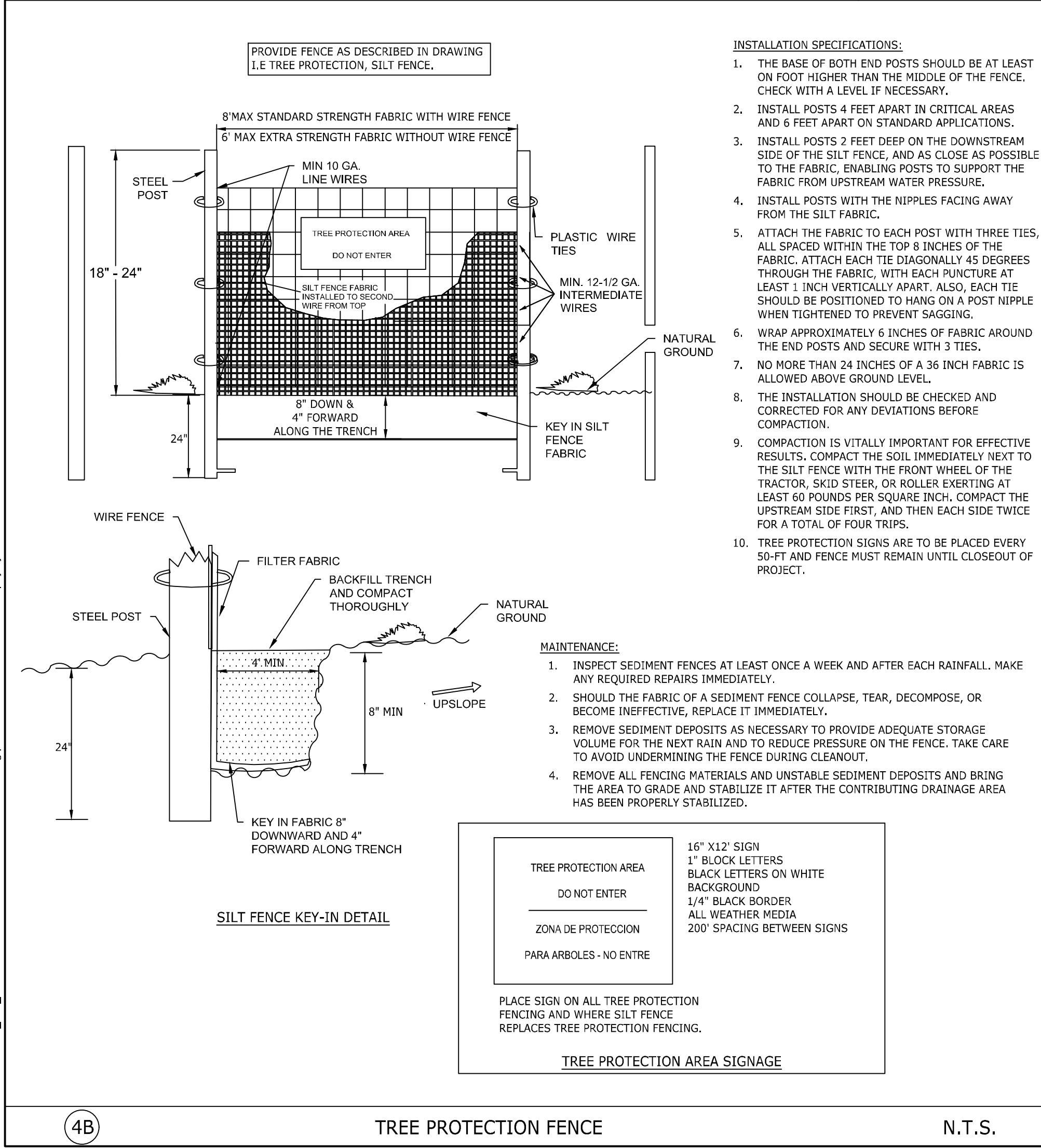
2 REINFORCED SILT FENCE OUTLET N.T.S.



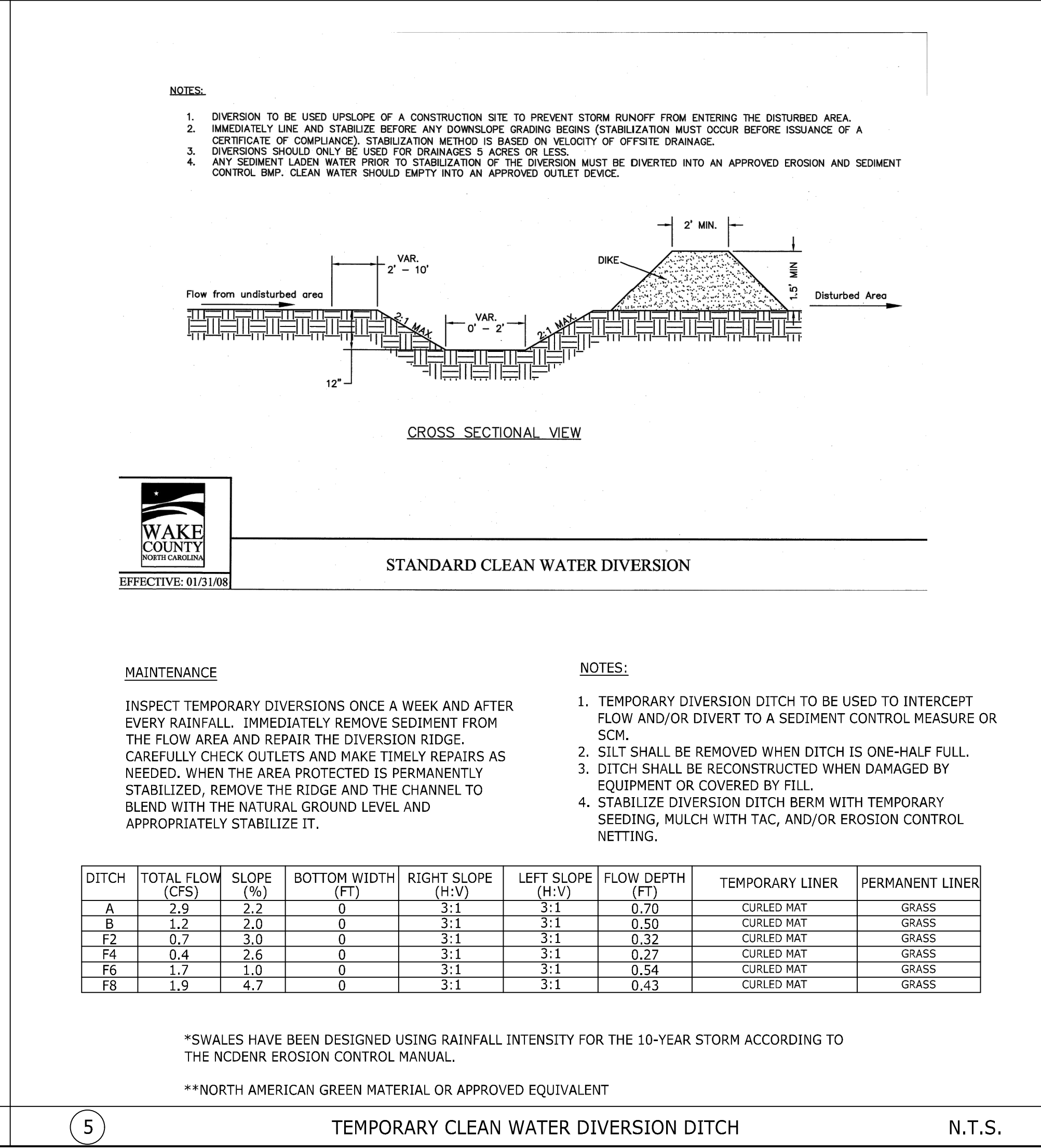
3 GRAVEL CONSTRUCTION ENTRANCE N.T.S.



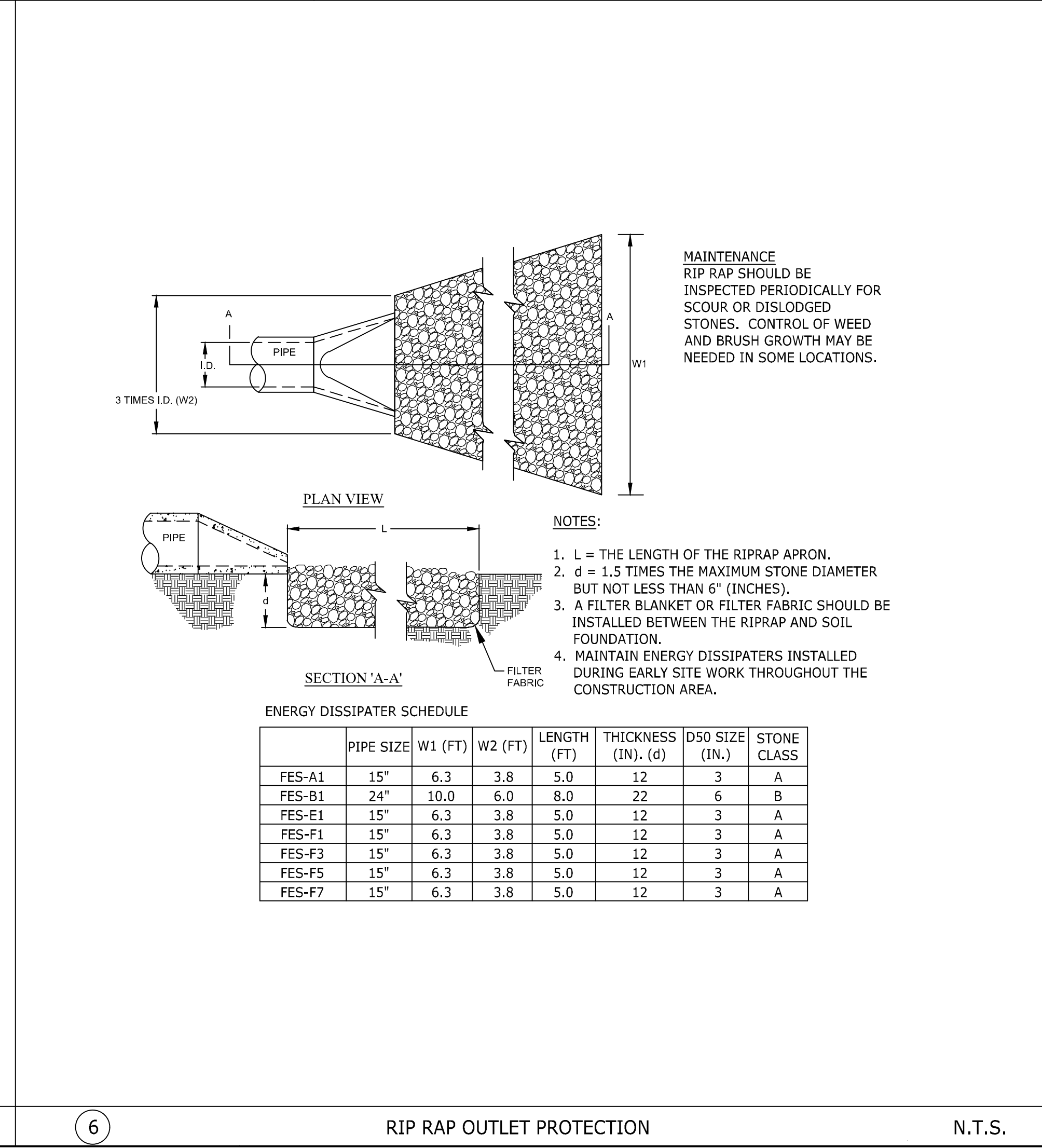
4A TEMPORARY SEDIMENT FENCE N.T.S.



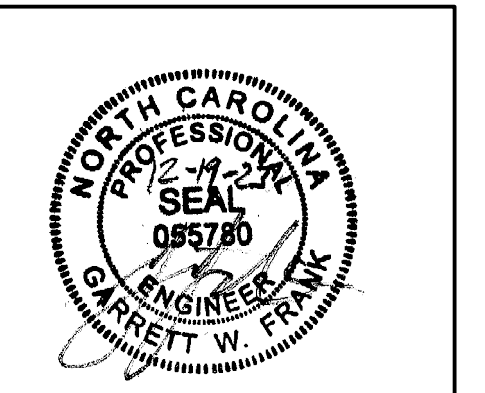
4B TREE PROTECTION FENCE N.T.S.



5 TEMPORARY CLEAN WATER DIVERSION DITCH N.T.S.



6 RIP RAP OUTLET PROTECTION N.T.S.



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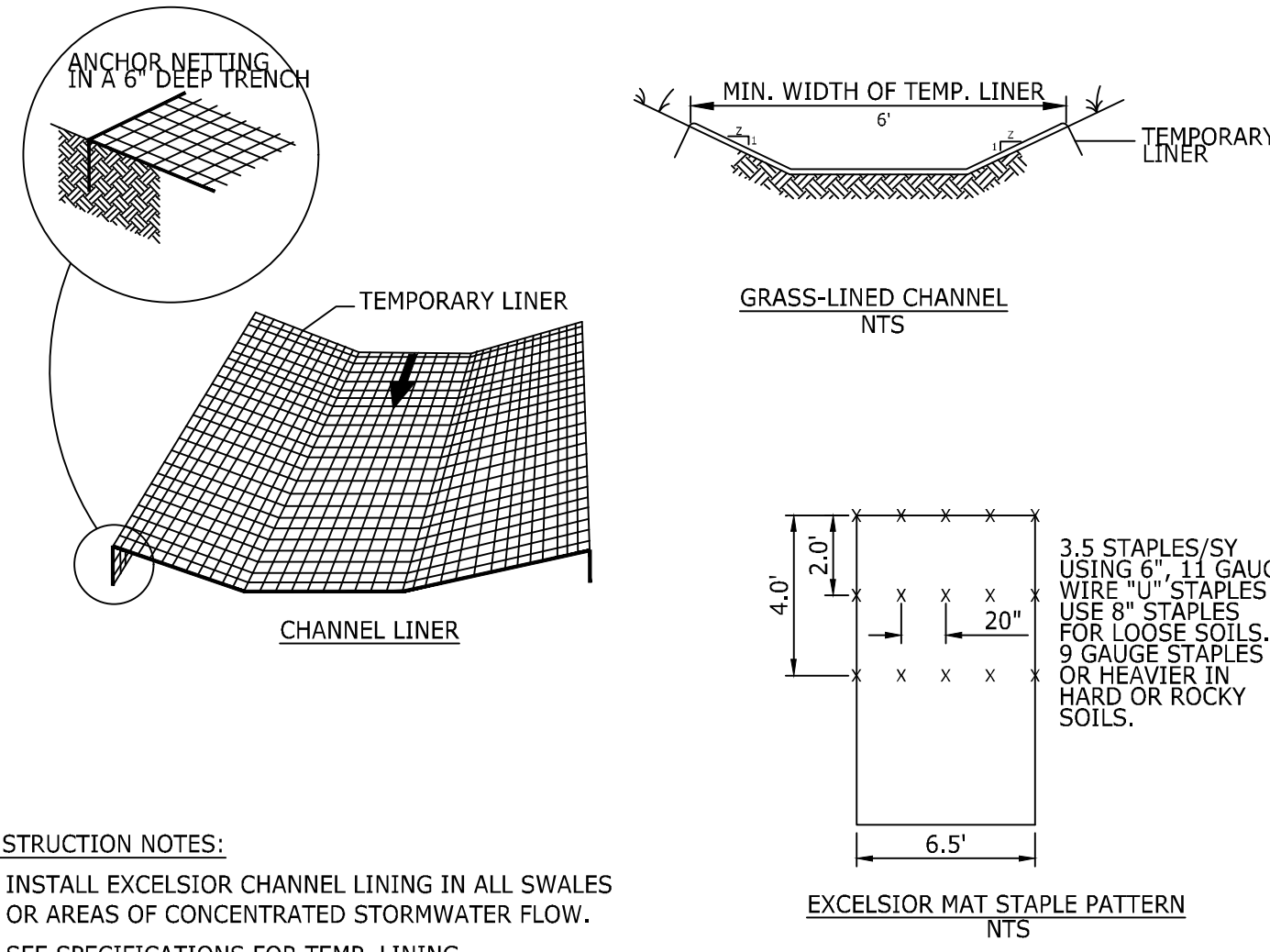
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 NORTH CAROLINA LICENSE NO. C-1652

**JONES DAIRY STORAGE FACILITY**  
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

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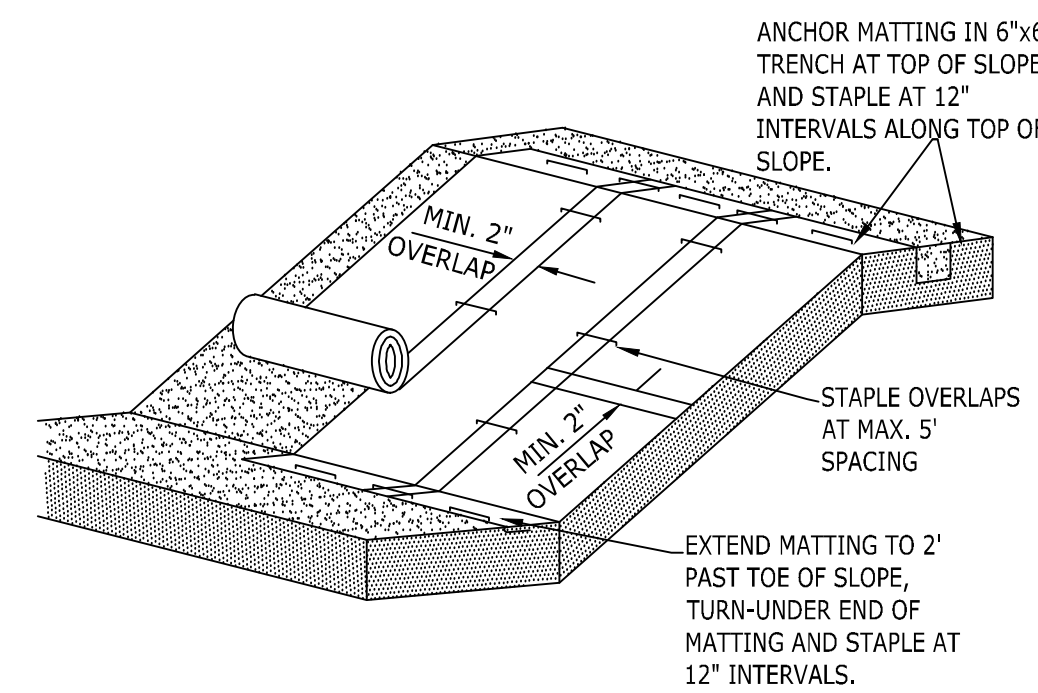


**CONSTRUCTION NOTES:**

1. INSTALL EXCELSIOR CHANNEL LINING IN ALL SWALES OR AREAS OF CONCENTRATED STORMWATER FLOW.
2. SEE SPECIFICATIONS FOR TEMP. LINING REQUIREMENTS.
3. PREPARE SOIL BEFORE INSTALLING MATS OR NETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
4. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE NET OR MAT IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
5. ROLL CENTER MAT OR NET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL.
6. PLACE MAT OR NET END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE.
7. FULL LENGTH EDGE OF MAT OR NET AT TOP SIDE SLOPES SHALL BE ANCHORED IN 6" DEEP TRENCH AFTER STAPLING.
8. MATS OR NETS SHALL BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED.
9. THE TERMINAL END OF THE MAT OR NET MUST BE ANCHORED IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

**MAINTENANCE NOTES:**

1. GRASS-LINED CHANNELS TO BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL EVENT, DURING THE ESTABLISHMENT AND AFTER THE ESTABLISHMENT PERIOD.
2. REPAIRS ARE TO BE MADE IMMEDIATELY.
3. REMOVE SEDIMENT ACCUMULATIONS TO MAINTAIN DESIGNED CARRYING CAPACITY.
4. GRASS TO BE HEALTHY AND IN VIGOROUS CONDITIONS AT ALL TIMES.

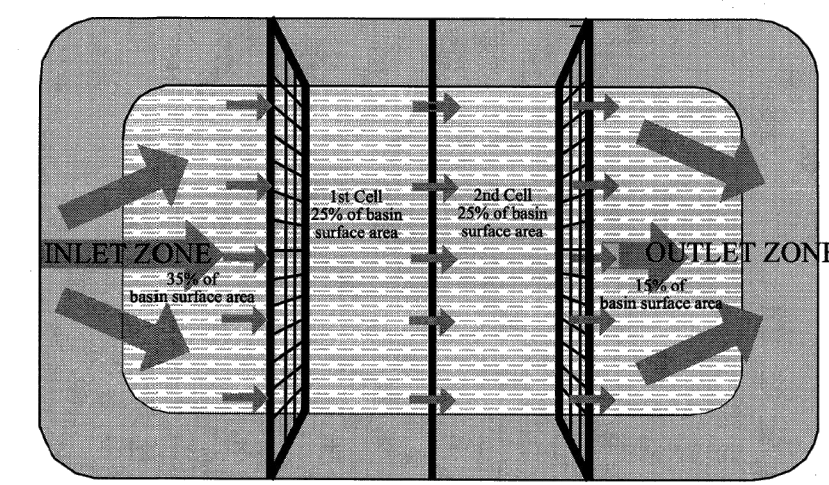


**NOTES:**

1. SLOPE SURFACE SHALL BE SMOOTH PRIOR TO PLACEMENT OF MATTING TO ENSURE PROPER SOIL CONTACT.
2. LIME, FERTILIZE, AND SEED PRIOR TO PLACING MATTING. PLANT SHRUBS, TREES, ETC. FOLLOWING PLACEMENT OF MATTING.
3. ON SLOPES FLATTER THAN 4:1, ROLLS MAY BE PLACED IN HORIZONTAL STRIPS.
4. DO NOT STRETCH MATTING TIGHT. ALLOW ROLLS TO CONFORM TO ANY IRREGULARITIES.
5. INSTALL STAPLES IN PATTERNS AS RECOMMENDED BY MATTING MANUFACTURER.

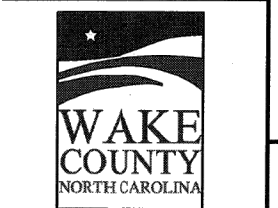
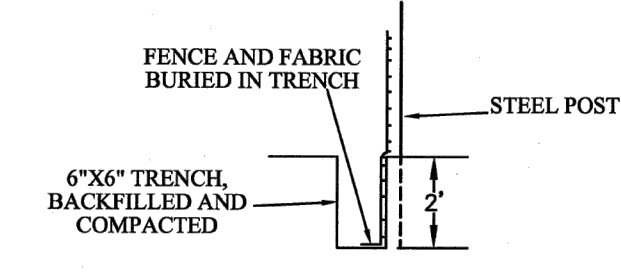
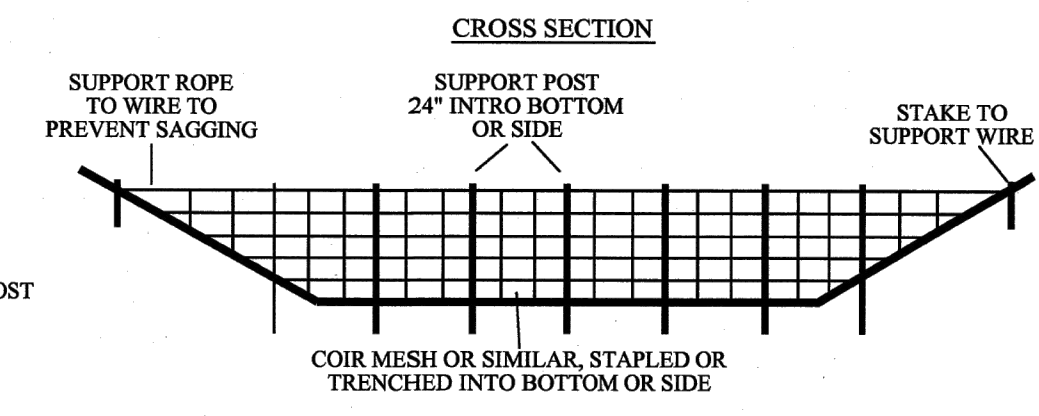
**MAINTENANCE NOTES:**

1. INSPECT MATTING AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2" OR GREATER) RAINFALL AND REPAIR IMMEDIATELY AS NEEDED.
2. ENSURE GOOD CONTACT WITH SOIL SURFACE IS MAINTAINED AND EROSION DOES NOT OCCUR BENEATH MATTING.
3. AREAS OF MATTING THAT ARE DAMAGED OR WHERE NOT IN CLOSE CONTACT WITH THE SOIL SHALL BE REPAIRED AND STAPLED.
4. IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREAS PROTECTED.
5. MONITOR AND REPAIR MATTING AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.



**NOTES:**

1. BAFFLE MATERIAL SHOULD BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.
2. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE 1ST BAY, WHICH SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE. PROVIDE 3 BAFFLES (USE TWO IF LESS THAN 30 FEET IN LENGTH). PROVIDE 5 BAFFLES FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
3. BAFFLE SHALL BE 700 GM2 COIR EROSION BLANKET.
4. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE BERMS.
5. INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH RAINFALL.



EFFECTIVE: 01/31/08

**STANDARD BAFFLES DETAIL**

**MAINTENANCE**

INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

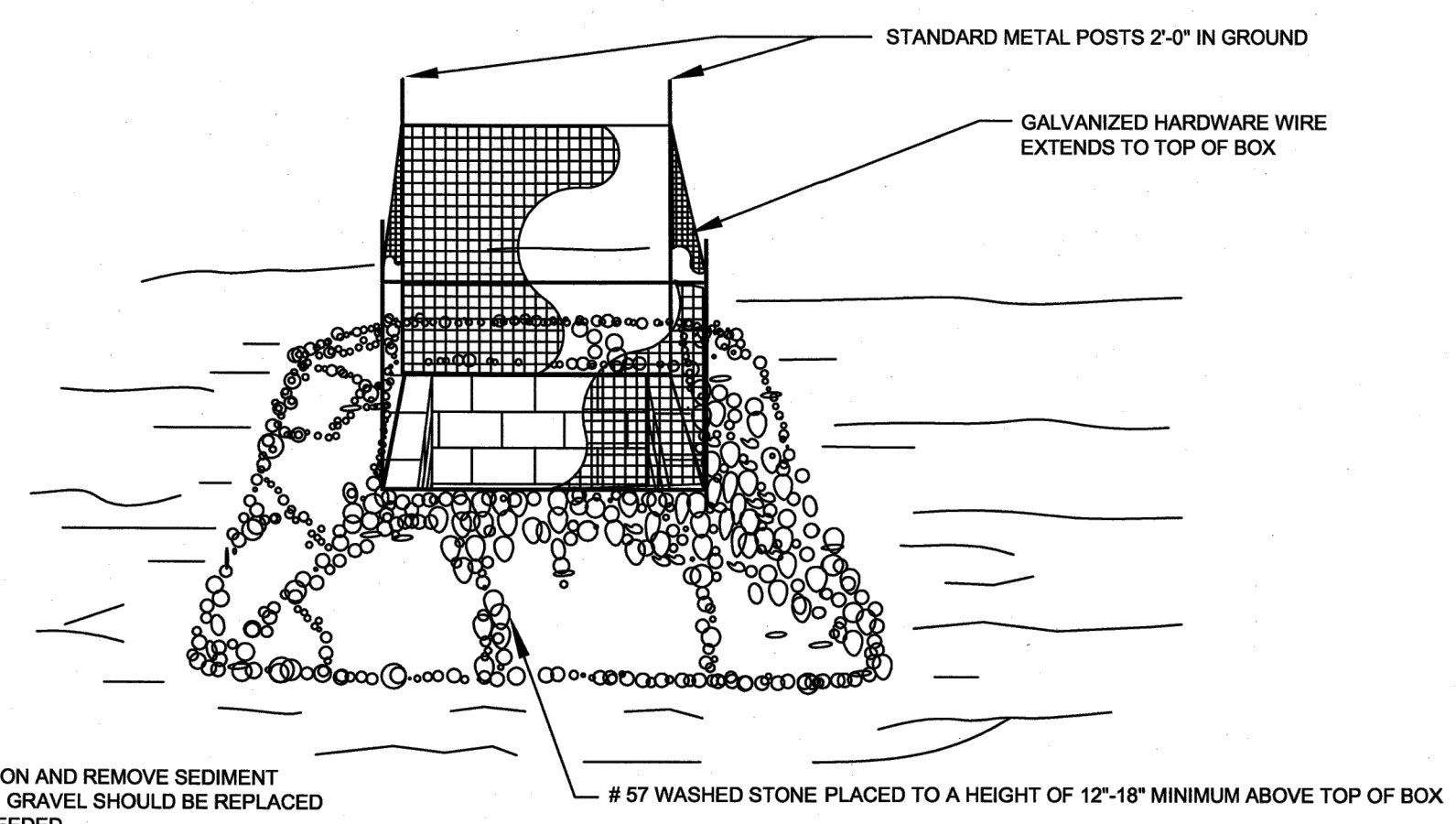
REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.

REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

① TEMPORARY CHANNEL LINING N.T.S.

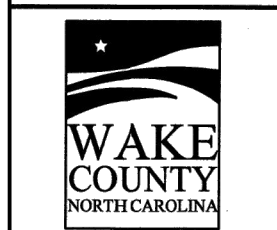
② ROLLED EROSION CONTROL PRODUCT N.T.S.

③ COIR MESH BAFFLES (NCDNR 6.65) N.T.S.



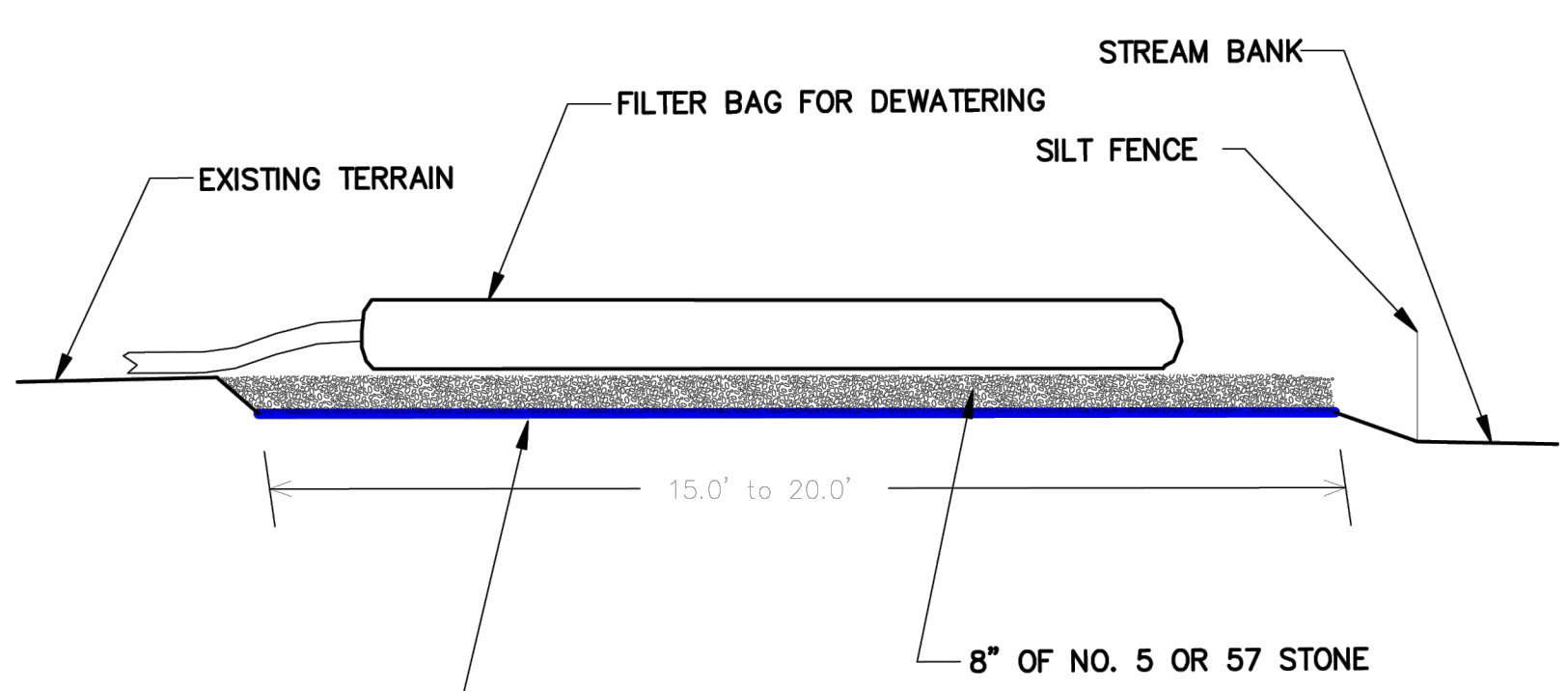
**NOTE:**

1. INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.



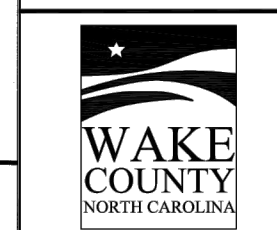
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**STANDARD GRAVEL YARD INLET PROTECTION**



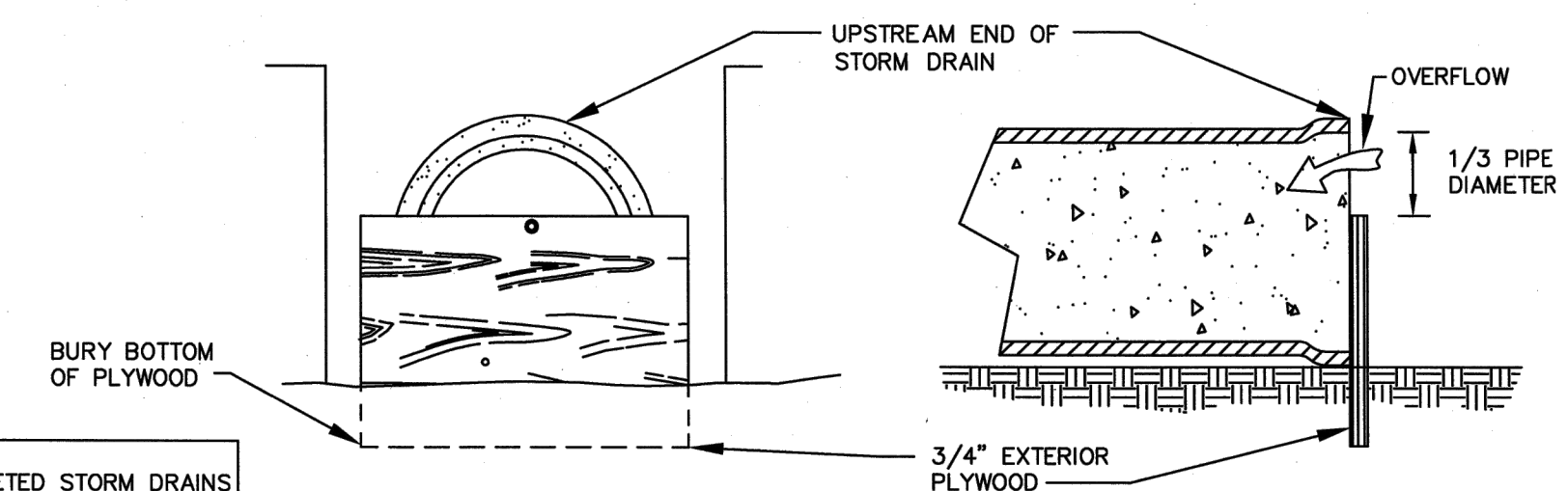
**NOTES**

PROVIDE STABILIZED OUTLET TO STREAM BANK. WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE FILTER BAG FOR DEWATERING ABOVE NATURAL GROUND.

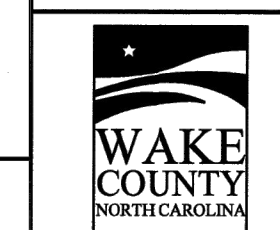
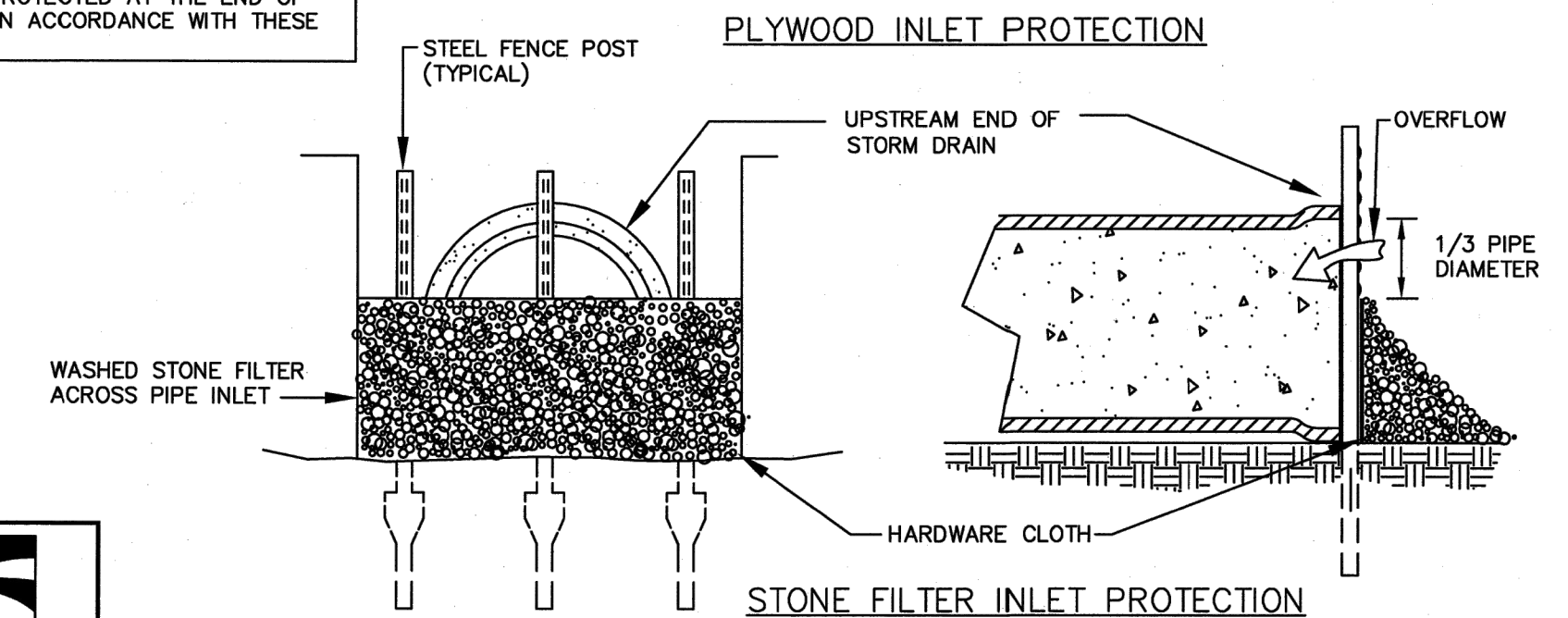


EFFECTIVE: 01/31/08

**STANDARD FILTER BAG FOR DEWATERING ACTIVITIES**



**NOTE:** ALL PARTIALLY COMPLETED STORM DRAINS SHALL BE PROTECTED AT THE END OF EACH DAY IN ACCORDANCE WITH THESE DETAILS.



EFFECTIVE: 01/31/08

**STANDARD PIPE INLET PROTECTION (PLYWOOD & STONE)**

④ YARD INLET PROTECTION N.T.S.

⑤ DEWATERING PUMP WITH SILT BAG N.T.S.

⑥ PIPE INLET PROTECTION N.T.S.



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**JONES DAIRY STORAGE FACILITY**

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

**SITE DETAILS**

JOB NO.	54832
SHEET NO.	C6.7

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TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**ROAD WIDENING PLAN - DEMO, SITE AND SIGNAGE & STRIPING PLANS**  
JOB NO. 54832  
SHEET NO. C7.0

**DEMOLITION KEY NOTES**

A	REMOVE ASPHALT PAVEMENT AND STONE BASE	
B	REMOVE TREE CLEARING	
C	50-FT MILL TAPER FROM 0" - 1.5" (SEE C7.0)	
D	SAW CUT AND REMOVE CONCRETE AT NEAREST JOINT.	
E	REMOVE AND REPLACE EXISTING CULVERT	
F	RELOCATE EXISTING MAILBOX	
G	REMOVE EXISTING GRAVEL	
H	REMOVE EXISTING HEADWALL	
I	REMOVE SANITARY SEWER PIPES	
J	REMOVE SANITARY SEWER STRUCTURE	

- SITE LAYOUT NOTES**
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE ROLESVILLE, WAKE COUNTY, NCDOT AND OSHA STANDARDS AND SPECIFICATIONS.
  - ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, BUILDING WALL FACE OR PROPERTY LINE, UNLESS OTHERWISE NOTED.
  - ALL RADII ARE DIMENSIONED FROM BACK OF CURB. IF NOT STATED, RADIUS DIMENSION IS 5'.
  - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, UTILITIES AND GRADES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING ANY RELATED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
  - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
  - AT LEAST 72 HOURS PRIOR TO CONSTRUCTION OR EXCAVATION THE CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) TO HAVE EXISTING UTILITIES LOCATED. ALL PRIVATE UTILITIES SHALL BE LOCATED AS NEEDED BY A PRIVATE UTILITY LOCATE COMPANY EMPLOYED BY THE CONTRACTOR.
  - ALL CURB AND GUTTER OFFSITE SHALL BE 30" WIDE UNLESS NOTED OTHERWISE.
  - ALL DISTURBED CURB & GUTTER AND ASPHALT SHALL BE REPLACED PER PROJECT DETAILS AND NCDOT STANDARDS AND SPECIFICATIONS.
  - RAISE ALL STRUCTURES AT NO ADDITIONAL COST TO THE OWNER SO THAT THE TOP OF THE STRUCTURE EQUALS THE FINISH GRADE OF THE NEW ASPHALT.
  - COORDINATE THE PROJECT SCHEDULE WITH THE CIVIL ENGINEER AND OWNER. ANY UTILITY INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER AT LEAST 72 HOURS PRIOR TO THE INTERRUPTION.
  - PROVIDE A SMOOTH TRANSITION BETWEEN NEW ASPHALT AND EXISTING ASPHALT SURFACES.
  - ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK. NOTIFY ENGINEER IF THIS CANNOT BE ACHIEVED.
  - REFER TO SHEET C2.0 FOR THE CTP COMPLIANCE DIAGRAM.

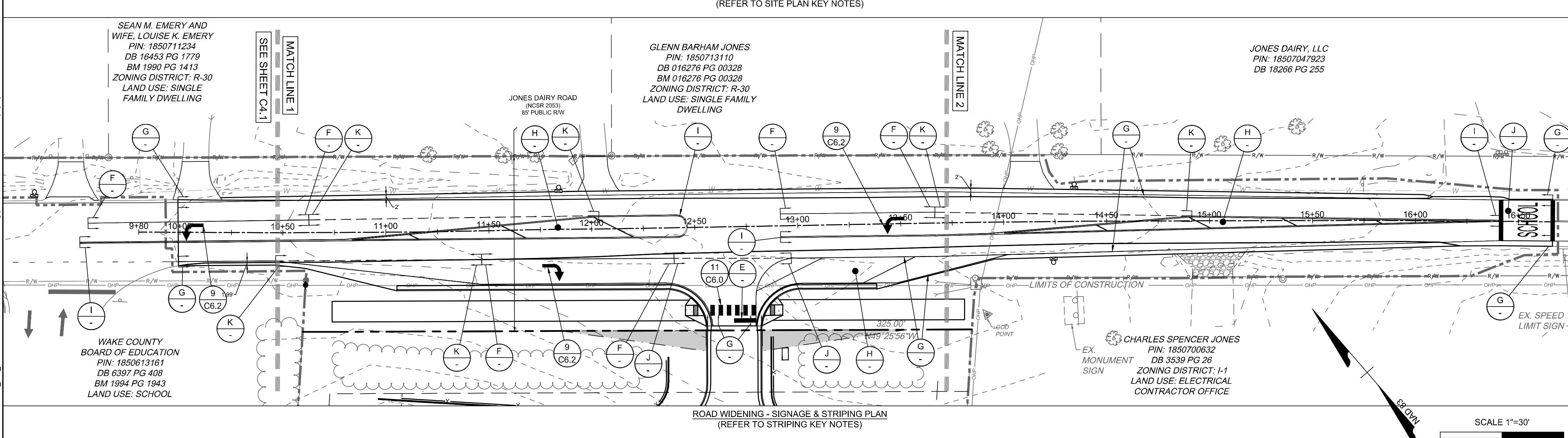
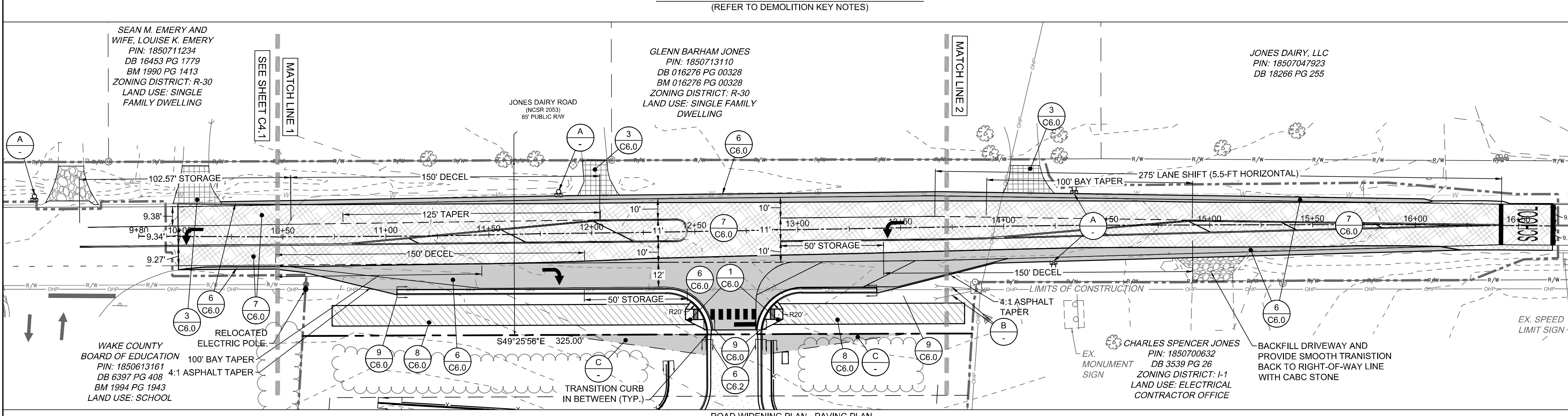
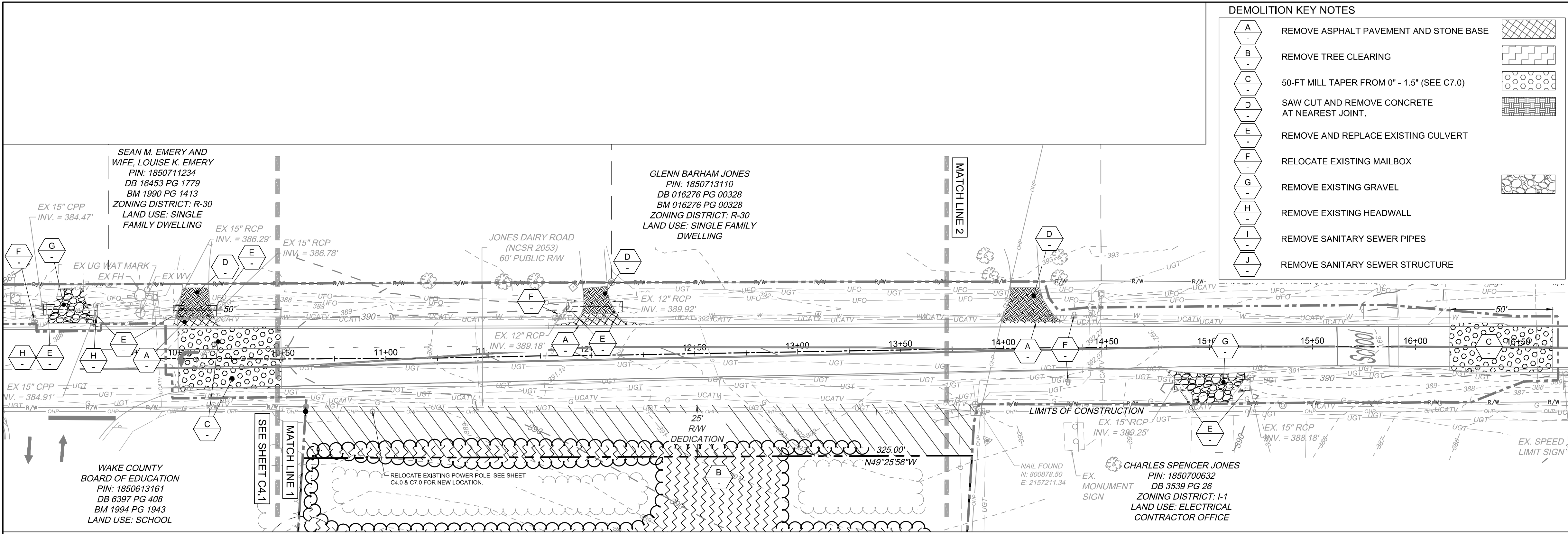
**SITE PLAN KEY NOTES**

1 C6.0	ACCESSIBLE CURB RAMP	
2 C6.0	STANDARD DUTY CONCRETE PAVEMENT	
3 C6.0	HEAVY DUTY CONCRETE PAVEMENT	
4 C6.0	STANDARD DUTY ASPHALT PAVEMENT	
5 C6.0	LIGHT DUTY ASPHALT PAVEMENT	
6 C6.0	NCDOT ASPHALT (FULL DEPTH)	
7 C6.0	NCDOT OVERLAY	
8 C6.0	ASPHALT MULTI-USE PATH	
9 C6.0	NCDOT 30" CONCRETE CURB & GUTTER	
10 C6.0	CURB ENDING TAPER	
11 C6.2	24" CONCRETE CURB & GUTTER	
A	RELOCATED MAILBOX	
B	RELOCATE OR PROVIDE TURN DOWN GUY WIRE BAR	
C	10-FT X 70-FT SIGHT TRIANGLE	
D	1.5" MILL & LAP JOINT (1.5" S-9.5B)	

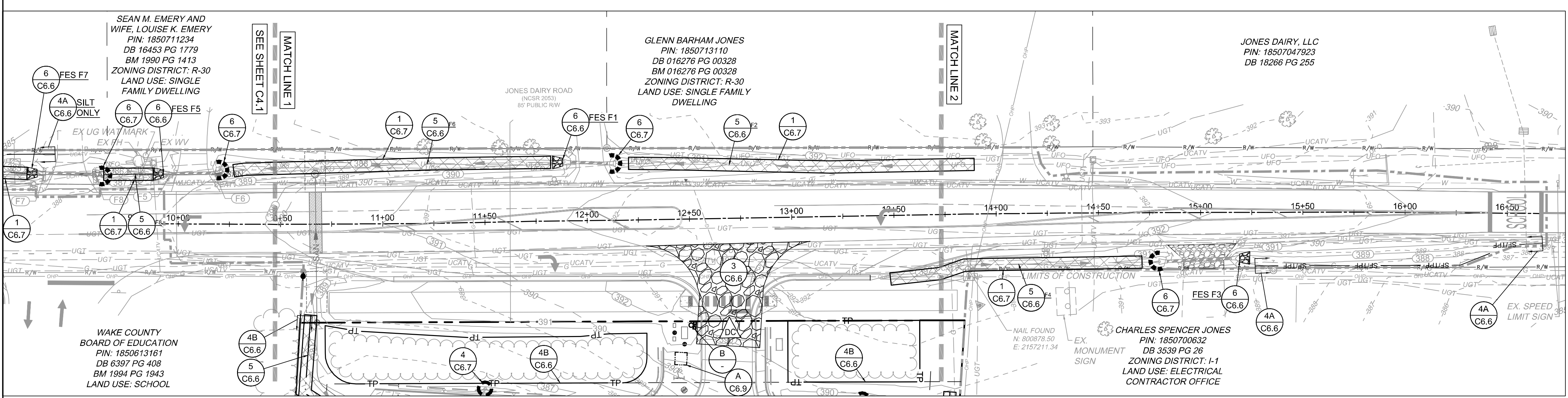
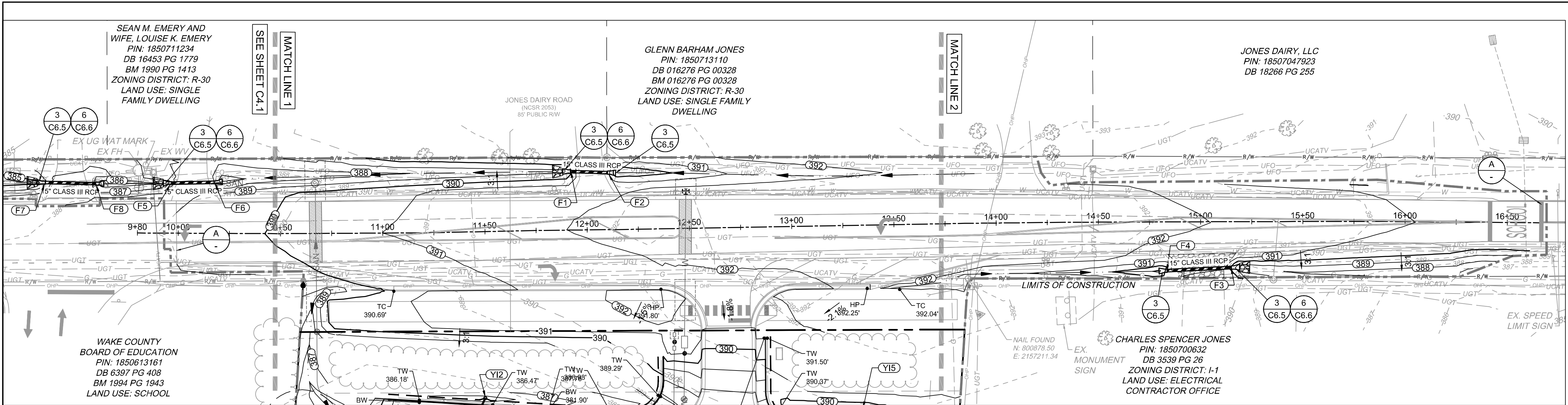
- TRAFFIC CONTROL NOTES**
- ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
  - ALL PAVEMENT MARKINGS WITHIN RIGHT-OF-WAY SHALL BE THERMOPLASTIC.
  - ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
  - ALL SIGNAGE SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING.
  - SIGNS SHALL BE FABRICATED FROM ALUMINUM ALLOY SHEETS.
  - ALL MOUNTING HARDWARE SHALL BE GALVANIZED.
  - "VAPS" ON PLANS DENOTES VAN ACCESSIBLE PARKING SIGN. INSTALL R7-8A, R7-8D, & R7-8P.
  - "APS" ON PLANS DENOTES ACCESSIBLE PARKING SIGN. INSTALL R7-8A & R7-8D ONLY.

**STRIPING KEY NOTES**

	NCDOT STD.	WIDTH	COLOR
11 C6.0	HIGH VISIBILITY CROSSWALK MARKINGS	-	WHITE
9 C6.2	TRAFFIC ARROWS	1205.08	WHITE
E	STOP BAR	1205.01	24-IN WHITE
F	LANE LINE	1205.1	4-IN WHITE
G	EDGE LINE	1205.1	4-IN WHITE
H	DIAGONAL LINES (2:1 SLOPE 45-FT SPACING)	1205.1	8-IN YELLOW
I	DOUBLE YELLOW CENTER LINE	1205.1	4-IN (EA) YELLOW
J	2'-6" SP MINI SKIP LINE	1205.1	4-IN WHITE
K	3'-9" SP MINI SKIP LINE	1205.1	4-IN WHITE
L	MULTI-LANE WIDTH "SCHOOL"	1205.8	WHITE

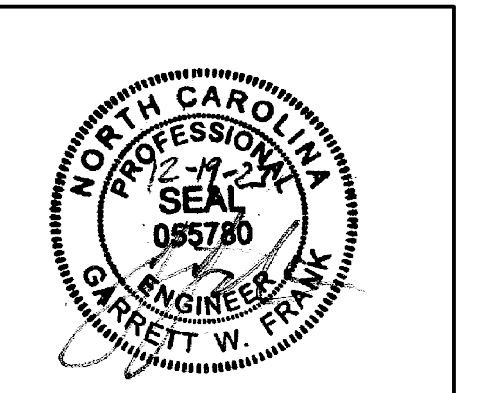


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**GRADING & DRAINAGE NOTES**

- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE ROLESVILLE, WAKE COUNTY, NCDOT AND OSHA STANDARDS AND SPECIFICATIONS.
- COORDINATE THE PROJECT SCHEDULE WITH THE OWNER, AND ADJACENT USERS OF THE PROPERTY, MAINTAIN TRAFFIC FLOW AND DO NOT INTERRUPT UTILITIES AROUND THE SITE. DO NOT DISTURB OPERATIONS OF ADJACENT SITES AND FACILITIES AND/OR THEIR OWNER'S ONGOING OPERATIONS.
- ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, VALVE BOXES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISHED GRADE.
- ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY.
- ALL SPOT ELEVATIONS INDICATED ARE AT TOP OF CURB UNLESS NOTED OTHERWISE.
- SPOT GRADE ABBREVIATIONS:
  - TC: TOP OF CURB
  - EP: EDGE OF PAVEMENT
  - HP: HIGH POINT
  - SWK: SIDEWALK
  - FFE: FINISHED FLOOR ELEVATION
  - TW: TOP OF WALL
  - BW: BOTTOM OF WALL
  - FL: FLOW LINE
  - GND: GROUND
  - EX GND: EXISTING GROUND
- SPOT ELEVATIONS ARE GIVEN AT THE MAJORITY OF THE MAJOR BREAK POINTS BUT IT SHOULD NOT BE ASSUMED THAT ALL NECESSARY SPOT ELEVATIONS ARE SHOWN. DUE TO SPACE LIMITATIONS, THERE MAY BE OTHER CRITICAL SPOTS NOT LABELED THAT SHOULD BE TAKEN INTO CONSIDERATION. THE CONTRACTOR SHALL REVIEW THE GRADING PLAN IN DETAIL AND SHALL ENSURE THAT ALL CRITICAL GRADE POINTS ARE STAKED AND FOLLOWED TO PROVIDE POSITIVE DRAINAGE.
- ALL ELEVATIONS ARE BASED ON NC GRID NORTH (NAD 83 2011).
- THE CONTRACTOR SHALL USE NC ONE CALL (811) TO LOCATE ALL UNDERGROUND UTILITIES. PRIVATE UTILITIES SHALL BE LOCATED BY A PRIVATE LOCATE SERVICE AT THE EXPENSE OF THE CONTRACTOR.
- INSTALL ALL STORM SEWERS TO PROVIDE REQUIRED CLEARANCES TO CROSSING UTILITIES AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
- PROVIDE HALF-BENCH CONCRETE INLET SHAPING FOR ALL CONCRETE STORM SEWER STRUCTURES.
- ALL ROOF DRAINS FROM BUILDING 'A' SHALL BE 8" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. ALL ROOF DRAINS FROM BUILDING 'B', 'C', AND 'D', SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN. MATCH PIPE CROWNS WITH CONNECTION TO DROP INLET.
- PVC ROOF DRAIN PIPING UNDER PAVEMENT SHALL HAVE 24-IN MINIMUM COVER. IF ROOF DRAIN PIPING UNDER PAVEMENT HAS LESS THAN 24-IN COVER, ROOF DRAIN PIPING SHALL BE 8" DIP (IN LIEU OF PVC).
- JOINT FILL AND CAULK EACH CONCRETE EXPANSION JOINT AND WHERE CONCRETE PAVEMENT ABUTS OTHER PAVEMENTS, SIDEWALKS, OR HARD SURFACES.
- MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT IN ACCORDANCE WITH NCDEQ LAND QUALITY REQUIREMENTS AND AS DIRECTED BY THE NCDCE AND CIVIL ENGINEER.
- FLUSH ALL SEDIMENT OUT OF STORM DRAINAGE PIPES AND STRUCTURES FOLLOWING SITE STABILIZATION AND AT THE END OF CONSTRUCTION. FLUSH OUT PIPES AS NEEDED THROUGHOUT CONSTRUCTION TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM.
- IN DISTURBED AREAS, AMEND THE TOP 6 INCHES OF LAWN AREAS WITH TOPSOIL FROM THE SITE.
- ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK.
- IF CONTRACTOR NOTICES ANY DISCREPANCIES IN ANY OF THESE SLOPE REQUIREMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER & ENGINEER PRIOR TO POURING ANY CONCRETE. PRIOR TO FINAL PROJECT ACCEPTANCE, PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY SYSTEMS AND STORM SEWERS.
- ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR USING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.



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11/07/2023	ADDRESSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS

DATE: 04/05/2023  
 DRAWN BY: L. BARNES  
 DESIGNED BY: G. FRANK  
 CHECKED BY: G. FRANK  
 SCALE: AS SHOWN

**TIMMONS GROUP**  
 NORTH CAROLINA LICENSE NO. C-1652

**JONES DAIRY STORAGE FACILITY**  
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

**ROAD WIDENING PLAN - GRADING, DRAINAGE & EROSION CONTROL PLAN**

JOB NO. 54832  
 SHEET NO. C7.1

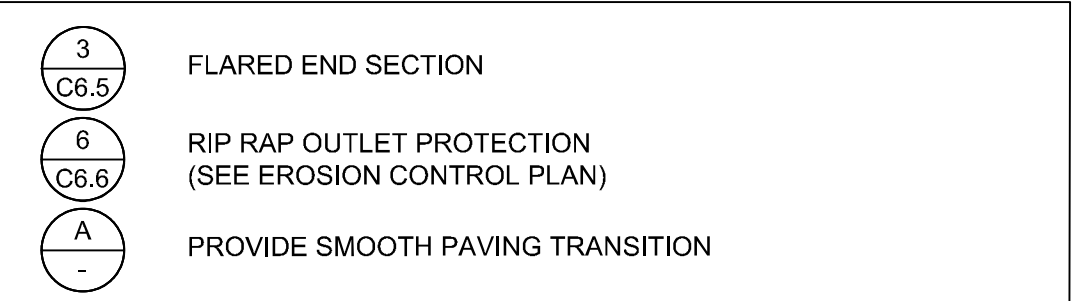
**NCDOT STORM PIPE TABLE**

PIPE #	DIA	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DESCRIPTION
F2-F1	15"	389.00	388.75	1.40%	17.85 LF	15" CLASS III RCP
F4-F3	15"	388.75	388.25	1.59%	31.45 LF	15" CLASS III RCP
F6-F5	15"	386.50	386.00	2.40%	20.83 LF	15" CLASS III RCP
F8-F7	15"	385.25	384.75	2.04%	24.54 LF	15" CLASS III RCP

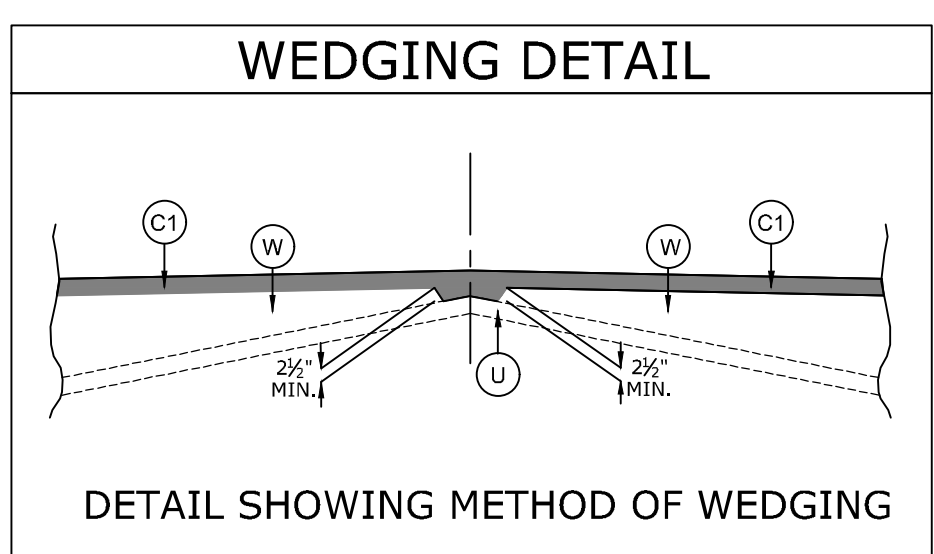
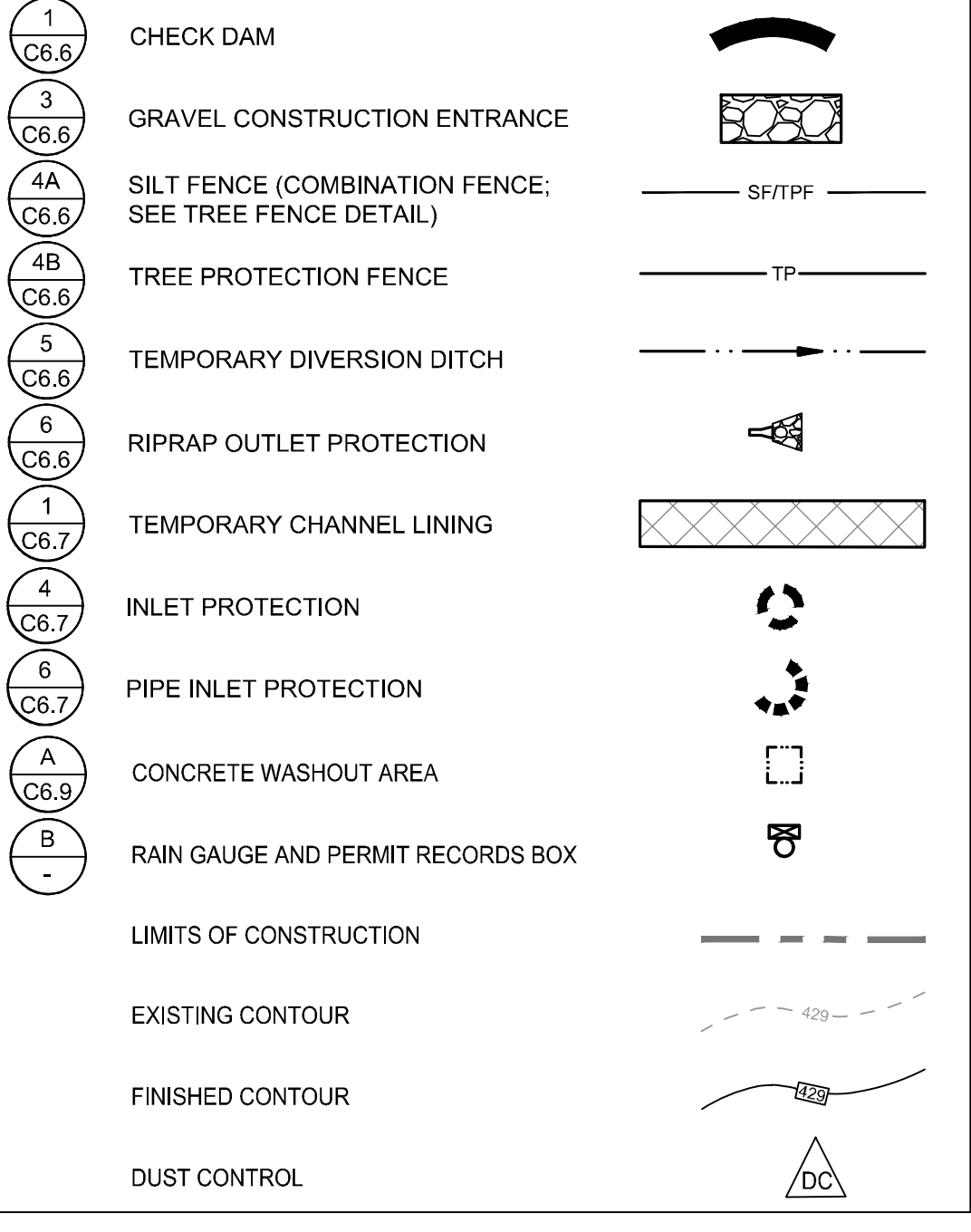
**EROSION CONTROL NOTES**

- THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ENGINEER.
- ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY.
- ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM.
- THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
- SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
- TREE PROTECTION INSPECTION SHALL BE COMPLETED PRIOR TO INSTALLING EROSION CONTROL DEVICES.
- ALL APPLICABLE E&S CONTROL MEASURES ARE TO BE PROPERLY MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- PERMANENT GROUND COVER SHALL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER).
- TOTAL DISTURBED AREA: 5.77 AC.

**GRADING & DRAINAGE KEY NOTES**



**EROSION CONTROL KEYNOTES**



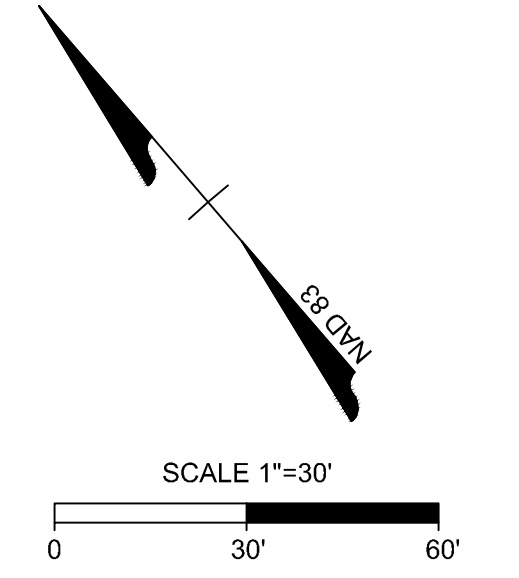
NOTE: MILL OR OVERLAY EXISTING PAVEMENT AS NECESSARY TO ACHIEVE REQUIRED CROSS SLOPE PER CROSS SECTIONS AND SUPERELEVATION TRANSITIONS. BUILD UP WITH ASPHALT CONCRETE INTERMEDIATE TYPE 119.0c AT VARIABLE DEPTH DEPENDING ON EXISTING CIRCUMSTANCES. REFER TO NCDOT ROAD DESIGN MANUAL FOR MINIMUM PAVEMENT LIFTS AND WEDGING REQUIREMENTS.

**PAVEMENT SCHEDULE**

Code	Description
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
W	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
U	EXISTING PAVEMENT

**NCDOT STORM STRUCTURE TABLE**

STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION
F1	390.44	N/A	15" FES
F2	390.19	N/A	15" FES
F3	389.69	N/A	15" FES
F4	390.19	N/A	15" FES
F5	387.44	N/A	15" FES
F6	387.94	N/A	15" FES
F7	386.19	N/A	15" FES
F8	386.69	N/A	15" FES



STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 WALETHR, N.C.

ENGLISH STANDARD DRAWING FOR  
 TEMPORARY LANE CLOSURES  
 2-LANE, 2-WAY ROADWAY - 1 LANE CLOSED

1101.02

**GENERAL NOTES FOR FLAGGER OPERATIONS**

- REFER TO STD. 1101-11 SHEET 4 FOR SIGN SPACING.
- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC.
- REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- PLACE CONES AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE WIDTH OF THE ROADWAY.
- EXTENDING TO THE BUFFER SPACE, EACH STOPPING SIGHT DISTANCE IS TO BE MAINTAINED AT ALL TIMES.
- DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 5 MINUTES AT A TIME.
- DRIVER OF VEHICLE MUST BE ADVISED BY CONES. REFER TO ROADWAY STANDARD 1101-11 FOR SIGN SPACING.
- USE FLAGGERS TO CONTROL TRAFFIC AT INTERSECTIONS AFFECTED BY THE LANE CLOSURE. INTERSECTIONS AFFECTED AT INTERSECTIONS WITH FLASHER AREA CLOSURE SHALL INTERSECTIONS PLACED 60 FEET IN THE FLASHER AREA AND REQUIRE THE USE OF LAW ENFORCEMENT.
- REFER TO 2009 MUTCD, CHAPTER 6, FOR FLAGGER CONTROL, REQUIREMENTS, AND PROCEDURES.
- DO NOT EXCEED A 1-MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TWP OR AS DIRECTED BY THE ENGINEER.

**GENERAL NOTES FOR PILOT CAR OPERATIONS**

- USE PILOT CAR WHEN DIRECTED BY THE ENGINEER.
- IF ROADWAY WIDTH IS LESS THAN 22 FEET, (TOP TO BOTTOM) CONES MAY NOT BE REQUIRED. THE WORK AREA IS TO BE A PILOT CAR ONLY. CONES ARE TO BE SET ALONG THE WORK AREA.
- CONES ARE ALWAYS REQUIRED IN THE UPSTREAM AND DOWNSTREAM TAPER.
- POINT TO THE REAR OF THE PILOT CAR FOLLOWING THE TRAFFIC FLOW.
- DO NOT EXCEED A MORE THAN ONE (1) MILE OF LANE CLOSURE, MEASURED FROM THE BEGINNING OF THE ROADWAY TO THE END OF THE ROADWAY.
- ADVISE RESIDENTS AND BUSINESS WITHIN THE LANE CLOSURE LIMITS ABOUT METHODS OF SAFE TRAVEL AND TRAFFIC DELAYS DURING PLANNED AND PILOT CAR OPERATIONS.

**LEGEND**

- FLAGGER
- CONE
- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW



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DESIGNED BY: G. FRANK

CHECKED BY: G. FRANK

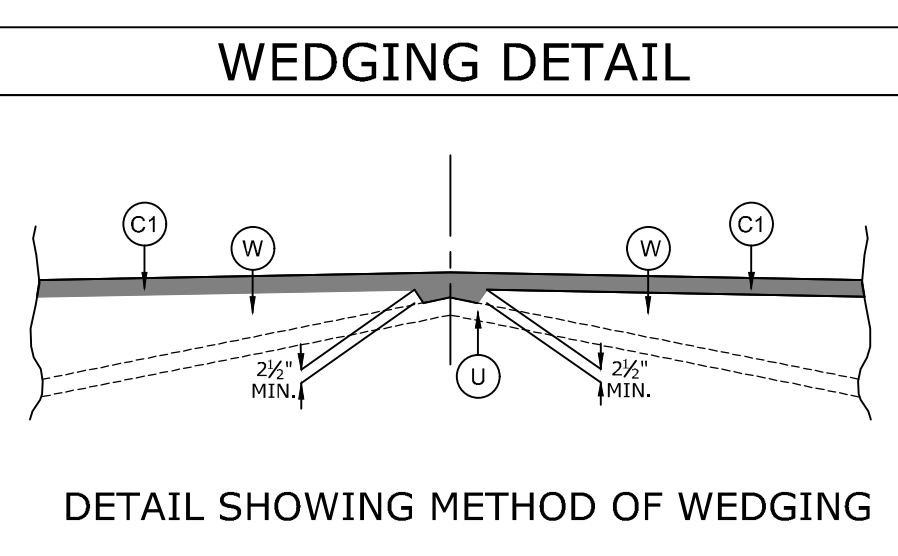
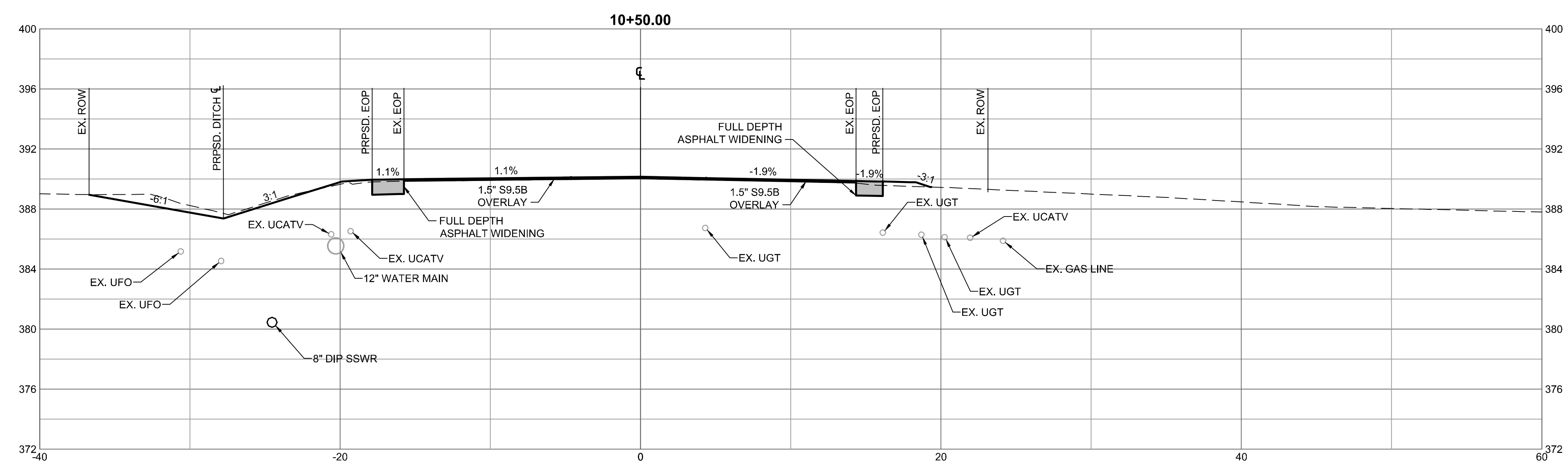
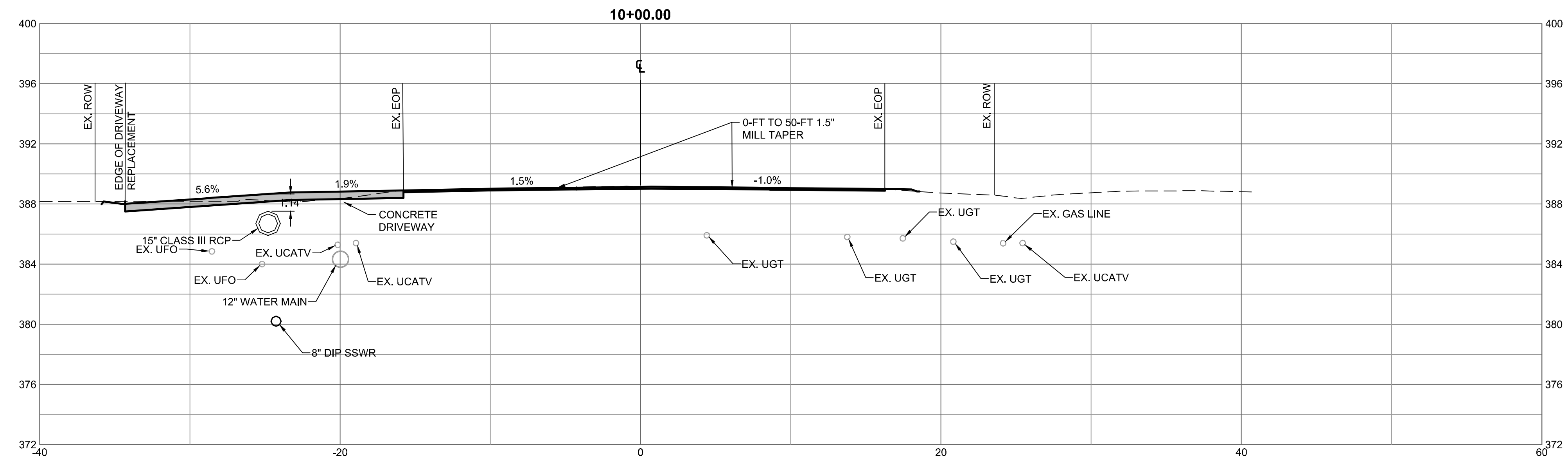
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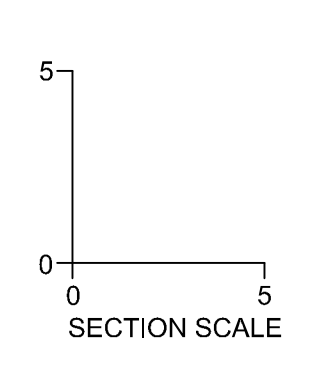
**JONES DAIRY STORAGE FACILITY**  
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**JONES DAIRY ROAD - CROSS SECTIONS STA. 10+00 - 10+50**

JOB NO. 54832  
 SHEET NO. C7.2



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
W	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
U	EXISTING PAVEMENT

NOTE: MILL OR OVERLAY EXISTING PAVEMENT AS NECESSARY TO ACHIEVE REQUIRED CROSS SLOPE PER CROSS SECTIONS AND SUPERELEVATION TRANSITIONS. BUILD UP WITH ASPHALT CONCRETE INTERMEDIATE TYPE 119.0c AT VARIABLE DEPTH DEPENDING ON EXISTING CIRCUMSTANCES. REFER TO NCDOT ROAD DESIGN MANUAL FOR MINIMUM PAVEMENT LIFTS AND WEDGING REQUIREMENTS.





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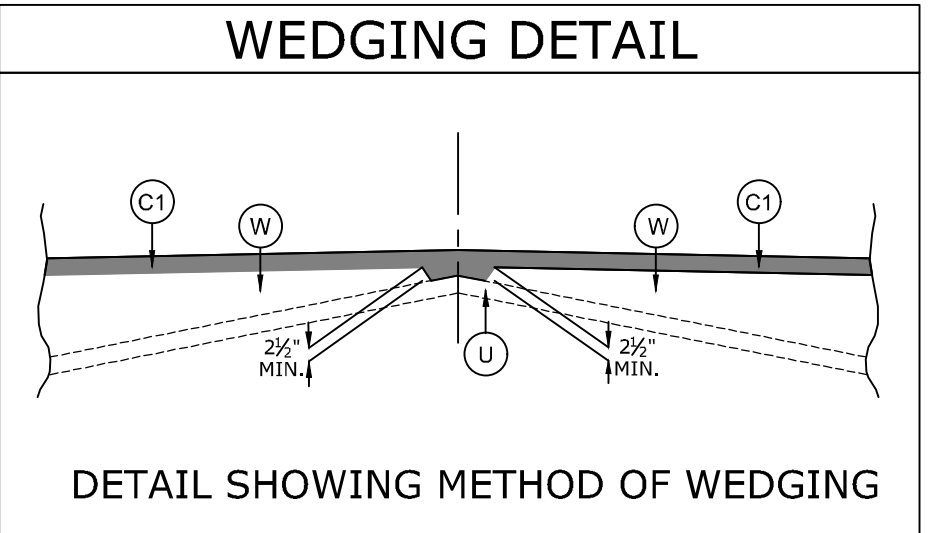
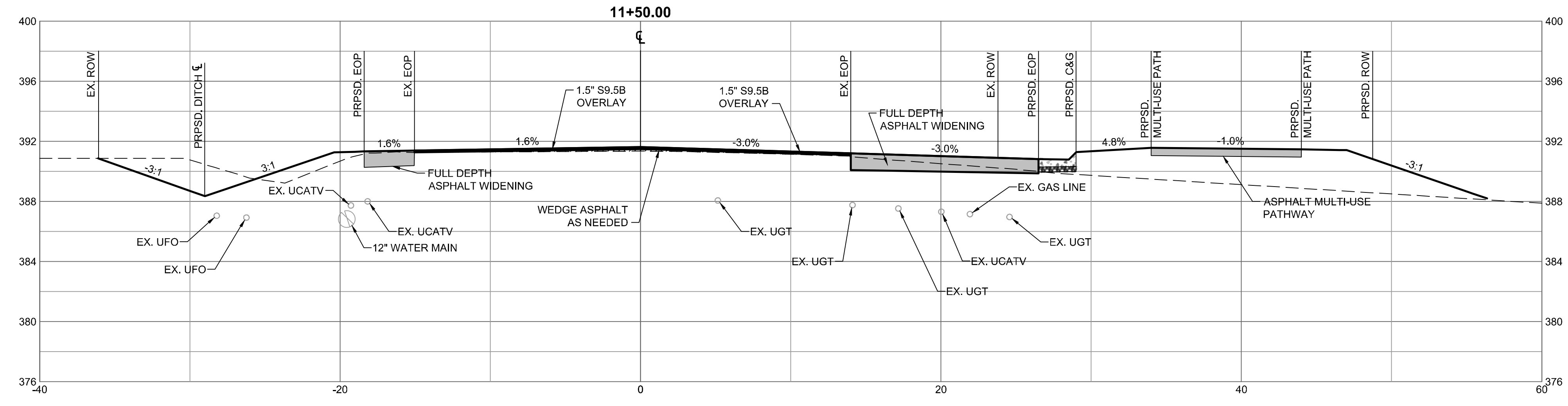
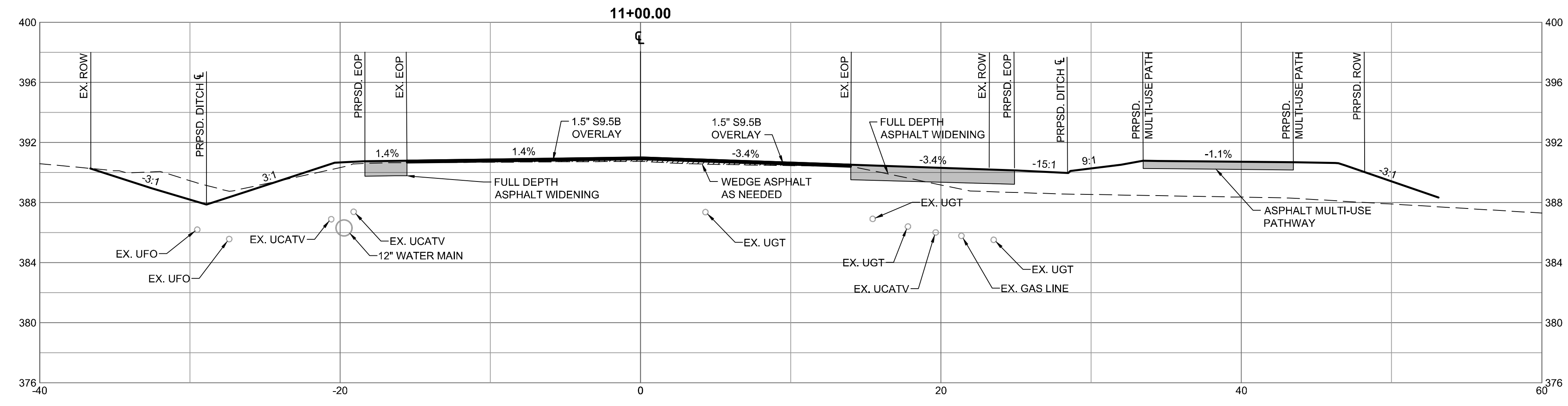
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 DESIGNED BY  
 G. FRANK  
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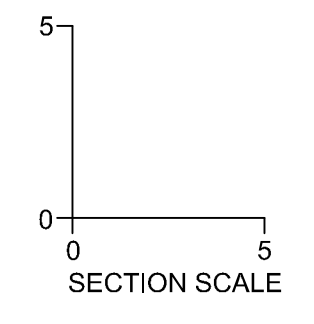
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**JONES DAIRY ROAD - CROSS SECTIONS STA. 11+00 - 11+50**

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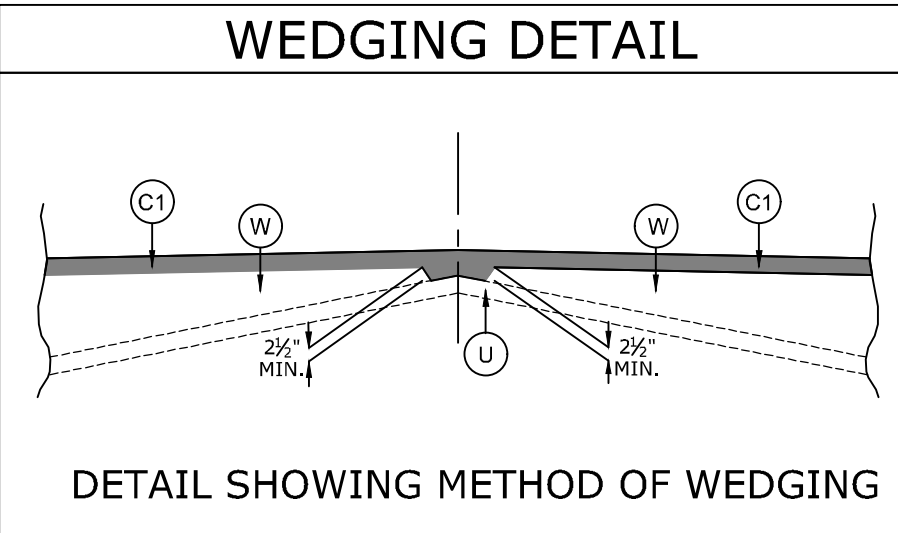
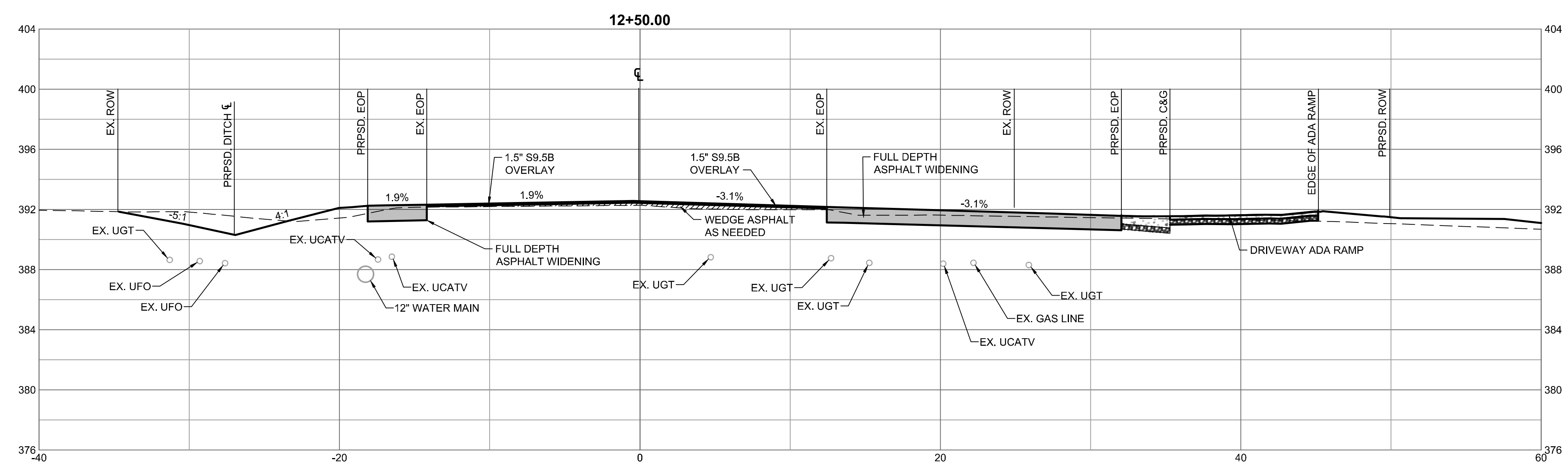
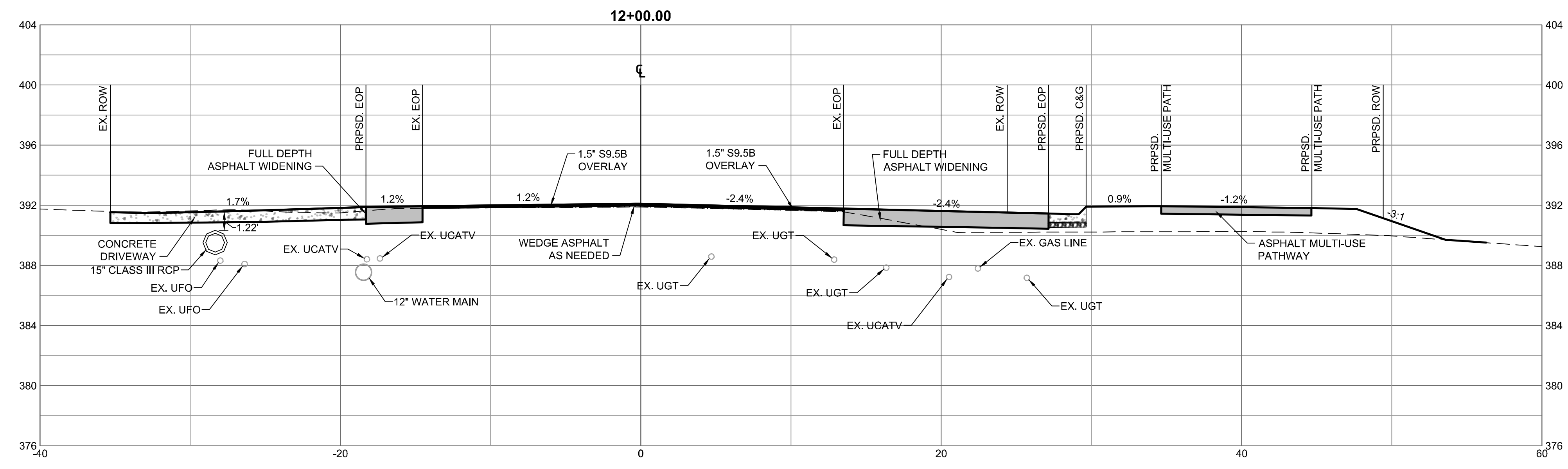
NORTH CAROLINA LICENSE NO. C-1652

## JONES DAIRY STORAGE FACILITY

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

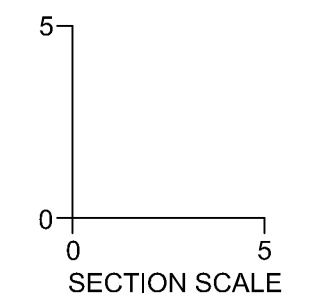
JONES DAIRY ROAD - CROSS SECTIONS STA. 12+00 - 12+50

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PAVEMENT SCHEDULE	
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W	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
U	EXISTING PAVEMENT

NOTE: MILL OR OVERLAY EXISTING PAVEMENT AS NECESSARY TO ACHIEVE REQUIRED CROSS SLOPE PER CROSS SECTIONS AND SUPERELEVATION TRANSITIONS. BUILD UP WITH ASPHALT CONCRETE INTERMEDIATE TYPE 119.0c AT VARIABLE DEPTH DEPENDING ON EXISTING CIRCUMSTANCES. REFER TO NCDOT ROAD DESIGN MANUAL FOR MINIMUM PAVEMENT LIFTS AND WEDGING REQUIREMENTS.



S:\33304832-Rolesville\_Site\33304832-2-NSFC.dwg | Printed on 11/09/2024 8:47 AM | by Lynak Barnes



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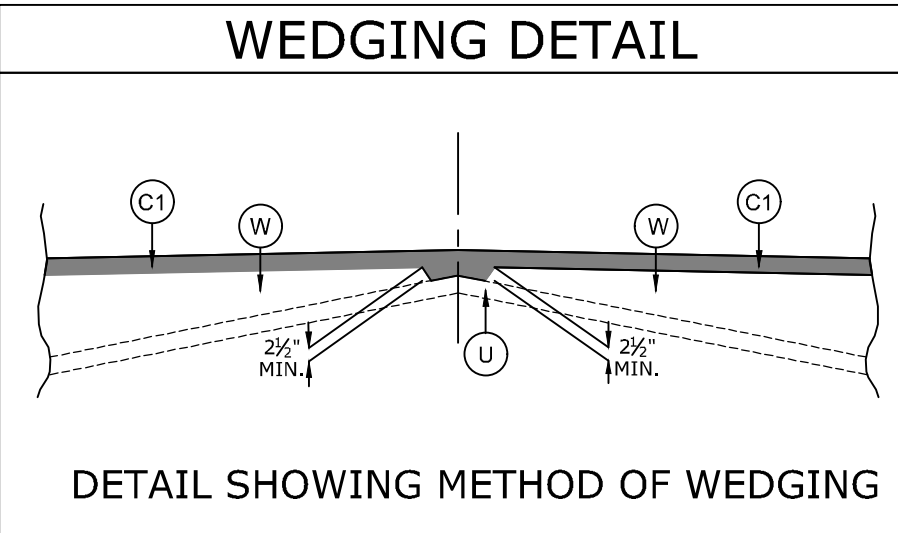
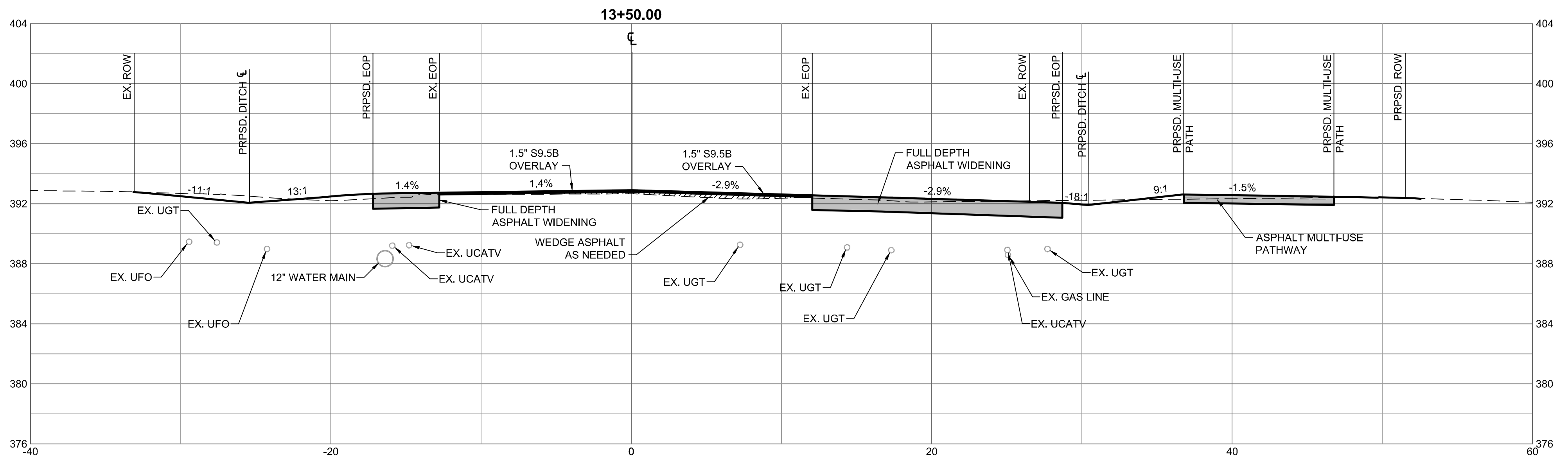
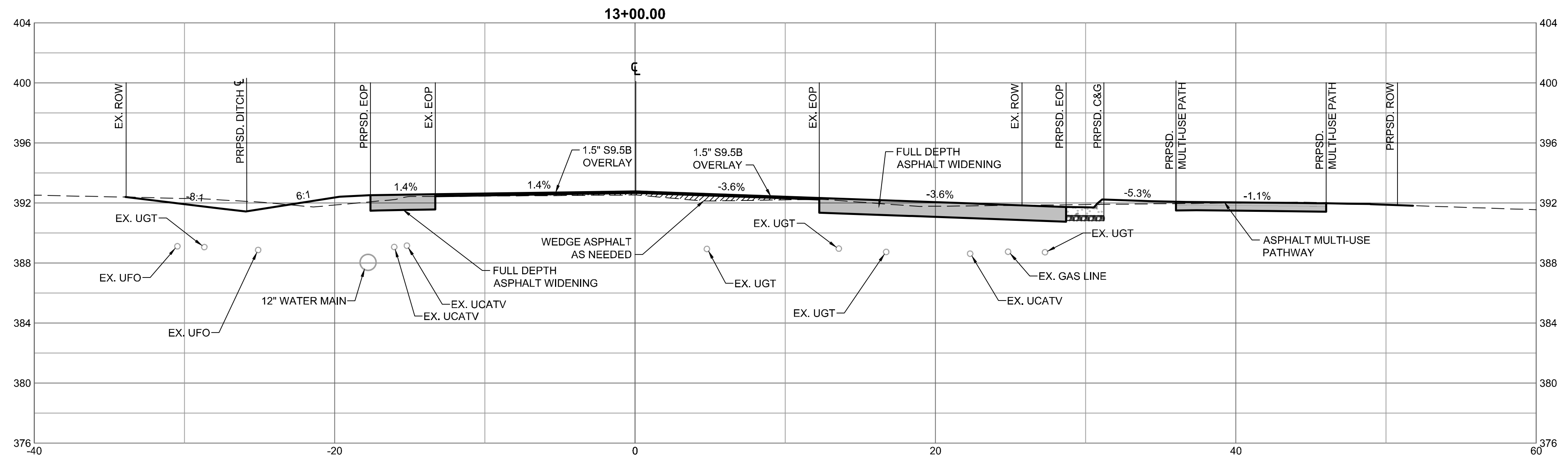
DATE  
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 L. BARNES  
 DESIGNED BY  
 G. FRANK  
 CHECKED BY  
 G. FRANK  
 SCALE  
 AS SHOWN

# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

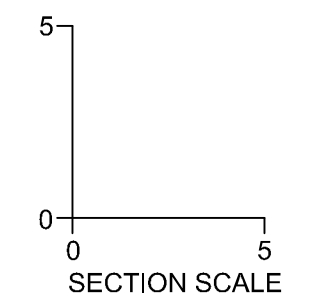
**JONES DAIRY STORAGE FACILITY**  
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**JONES DAIRY ROAD - CROSS SECTIONS STA. 13+00 - 13+50**

JOB NO.  
**54832**  
 SHEET NO.  
**C7.5**



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
W	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
U	EXISTING PAVEMENT

NOTE: MILL OR OVERLAY EXISTING PAVEMENT AS NECESSARY TO ACHIEVE REQUIRED CROSS SLOPE PER CROSS SECTIONS AND SUPERELEVATION TRANSITIONS. BUILD UP WITH ASPHALT CONCRETE INTERMEDIATE TYPE 119.0c AT VARIABLE DEPTH DEPENDING ON EXISTING CIRCUMSTANCES. REFER TO NCDOT ROAD DESIGN MANUAL FOR MINIMUM PAVEMENT LIFTS AND WEDGING REQUIREMENTS.



S:\33304832-Rolesville\_Sm\StorDWS\Sheet\C7.5-C7.5-ASEC.dwg | Plotted on 11/09/2024 8:47 AM | lbr, Lynak Barnes

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 CHECKED BY  
 G. FRANK  
 SCALE  
 AS SHOWN

# TIMMONS GROUP

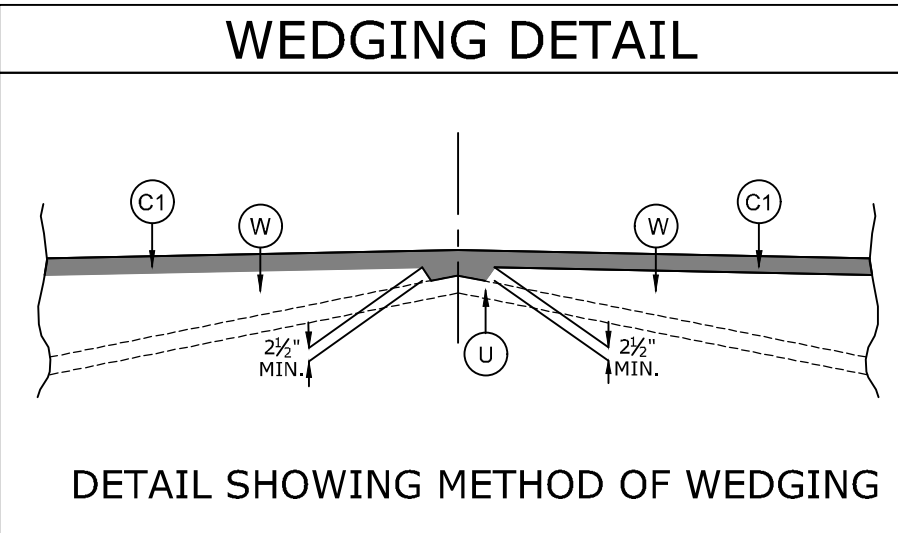
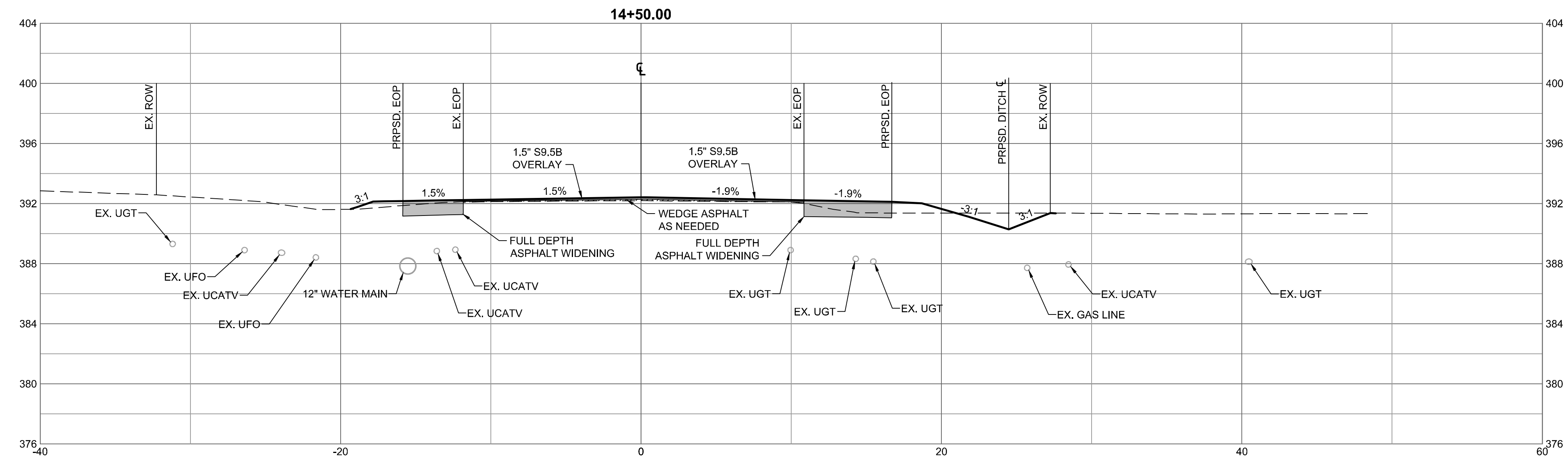
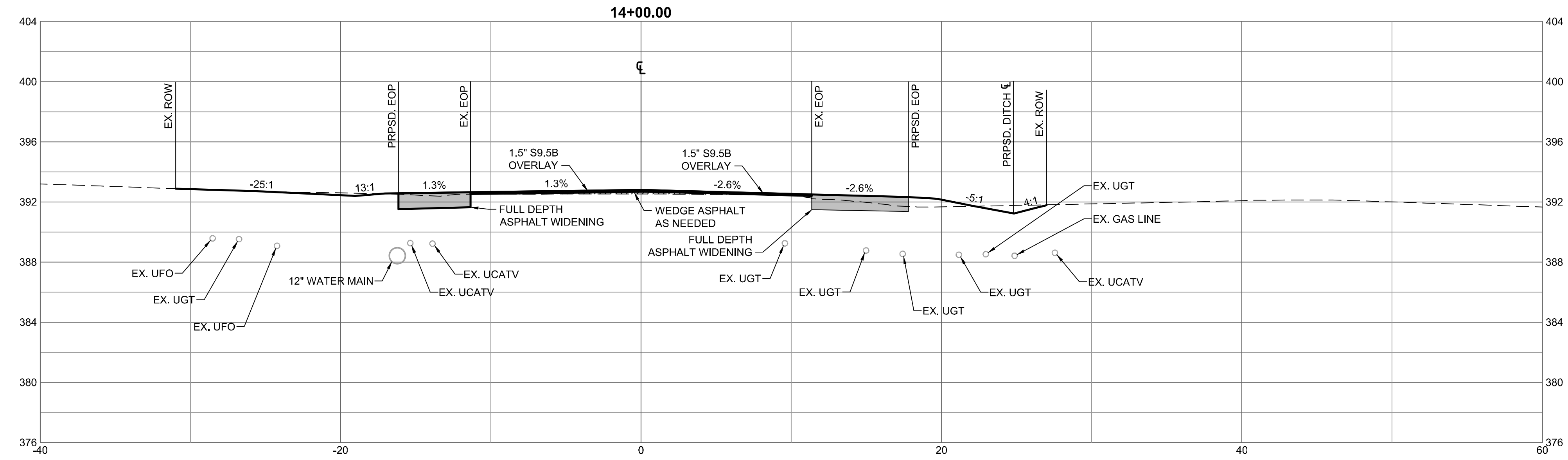
NORTH CAROLINA LICENSE NO. C-1652

**JONES DAIRY STORAGE FACILITY**  
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**JONES DAIRY ROAD - CROSS SECTIONS STA. 14+00 - 14+50**

DATE	REVISION DESCRIPTION
06/01/2023	ADDRESSED TOWN OF ROLESVILLE COMMENTS
08/01/2023	ADDRESSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS
11/01/2023	ADDRESSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS

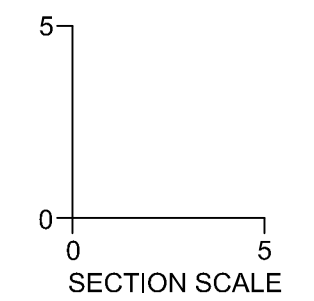
DATE	REVISION DESCRIPTION
06/01/2023	ADDRESSED TOWN OF ROLESVILLE COMMENTS
08/01/2023	ADDRESSED TOWN OF ROLESVILLE 2ND REVIEW COMMENTS
11/01/2023	ADDRESSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS

JOB NO.	54832
SHEET NO.	C7.6



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
W	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
U	EXISTING PAVEMENT

NOTE: MILL OR OVERLAY EXISTING PAVEMENT AS NECESSARY TO ACHIEVE REQUIRED CROSS SLOPE PER CROSS SECTIONS AND SUPERELEVATION TRANSITIONS. BUILD UP WITH ASPHALT CONCRETE INTERMEDIATE TYPE 119.0c AT VARIABLE DEPTH DEPENDING ON EXISTING CIRCUMSTANCES. REFER TO NCDOT ROAD DESIGN MANUAL FOR MINIMUM PAVEMENT LIFTS AND WEDGING REQUIREMENTS.



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11/01/2023	ADDRESSED TOWN OF ROLESVILLE 3RD REVIEW COMMENTS

DATE: 04/05/2023  
 DRAWN BY: L. BARNES  
 DESIGNED BY: G. FRANK  
 CHECKED BY: G. FRANK  
 SCALE: AS SHOWN

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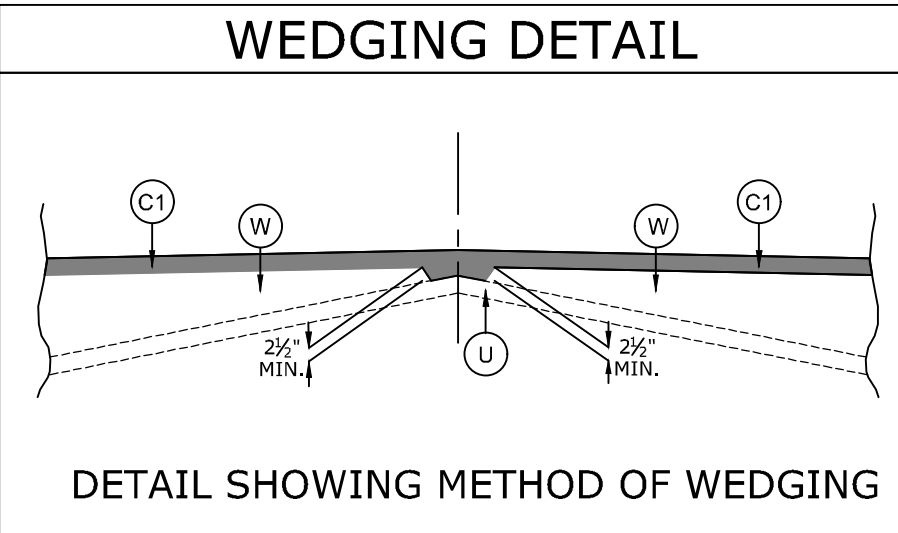
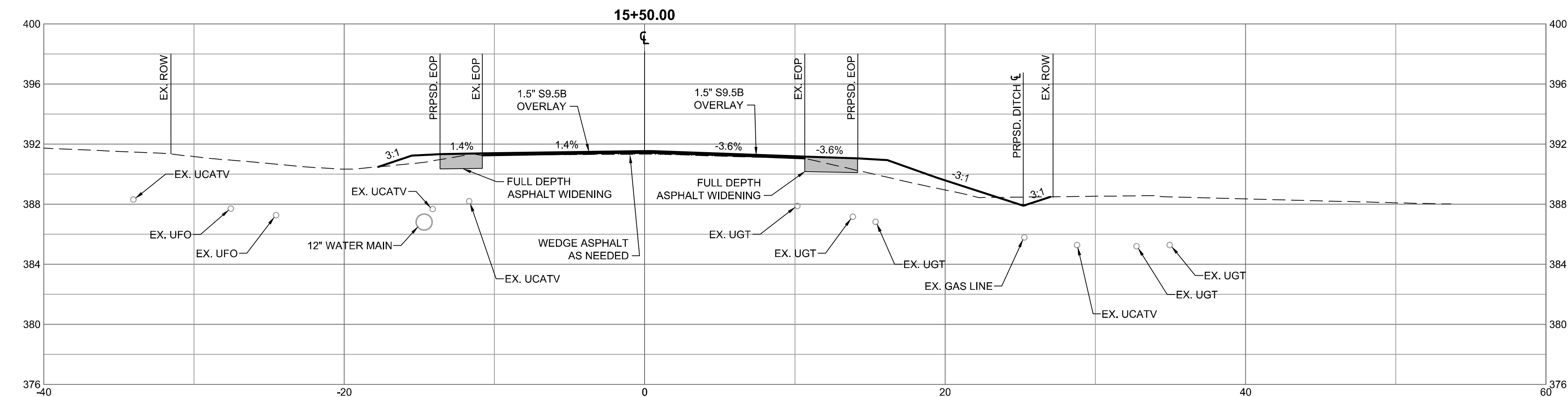
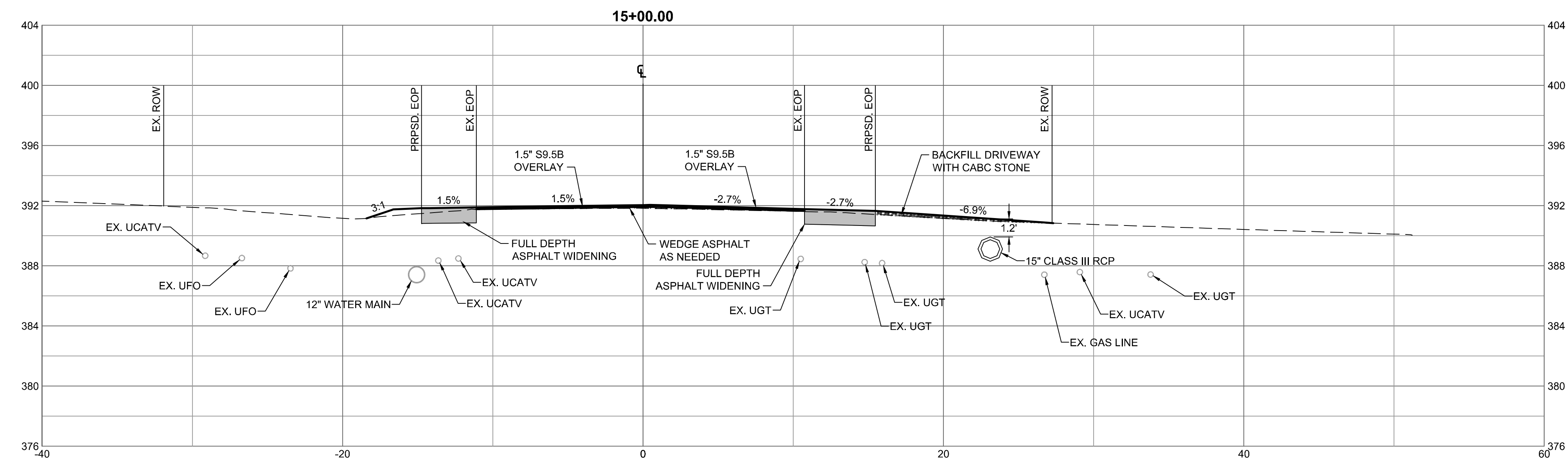
## JONES DAIRY STORAGE FACILITY

TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

### JONES DAIRY ROAD - CROSS SECTIONS STA. 15+00 - 15+50

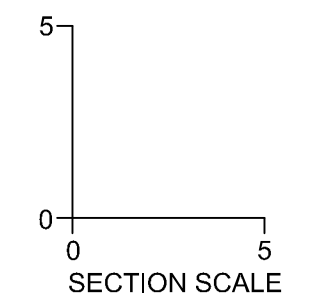
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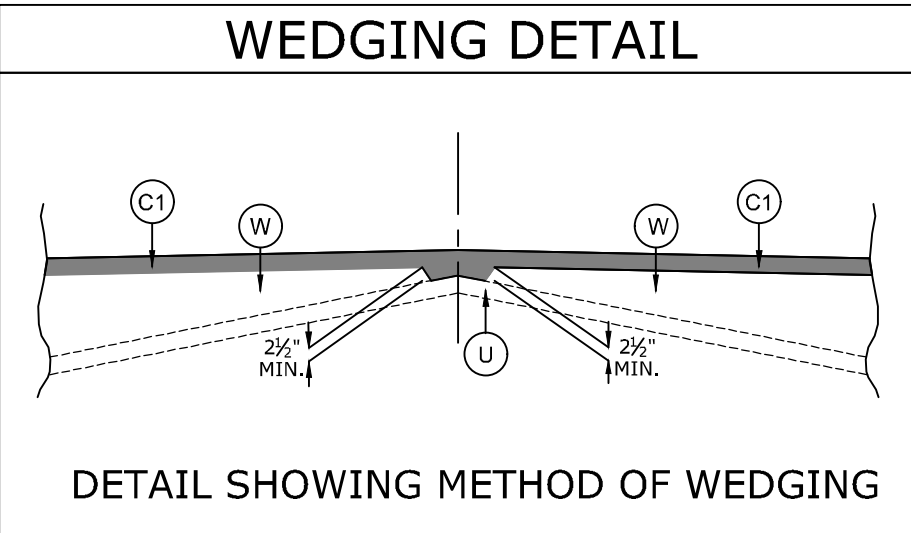
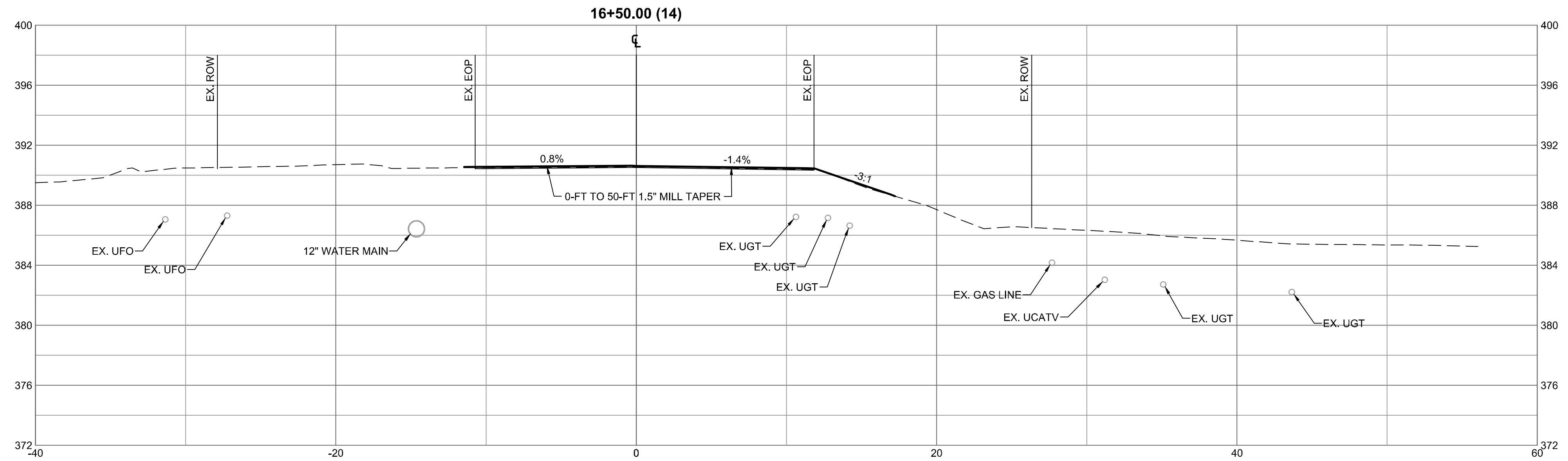
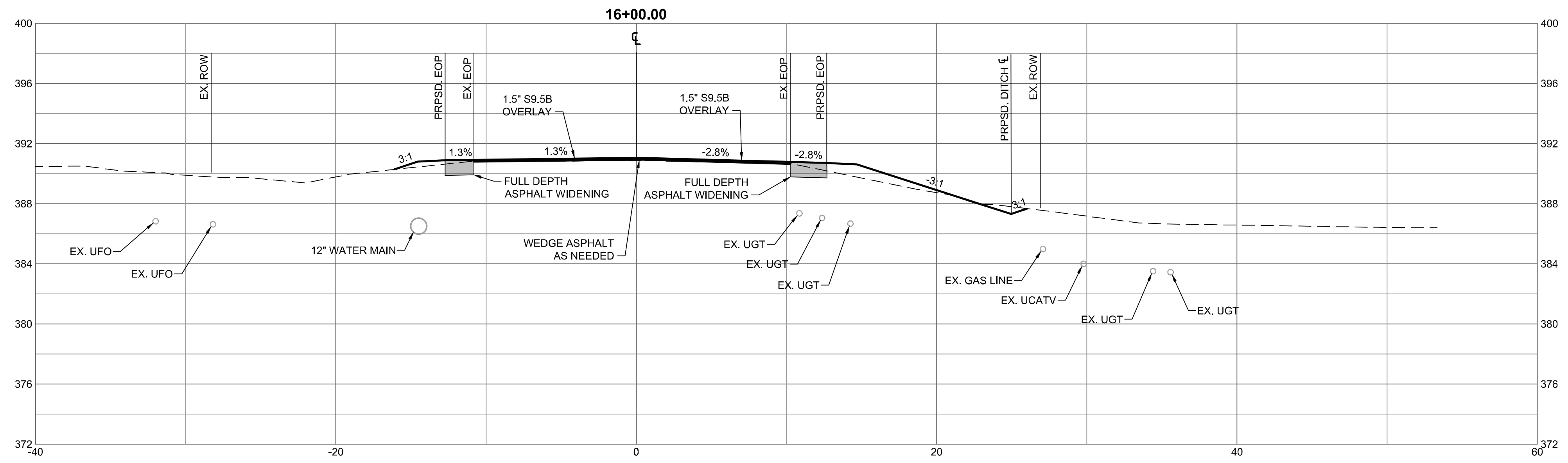
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
W	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
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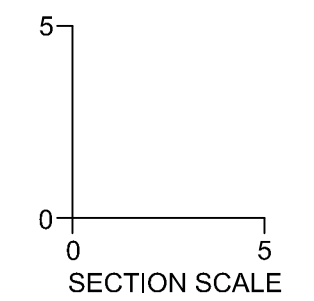
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PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
W	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C.
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 DESIGNED BY: G. FRANK  
 CHECKED BY: G. FRANK  
 SCALE: AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

JONES DAIRY STORAGE FACILITY

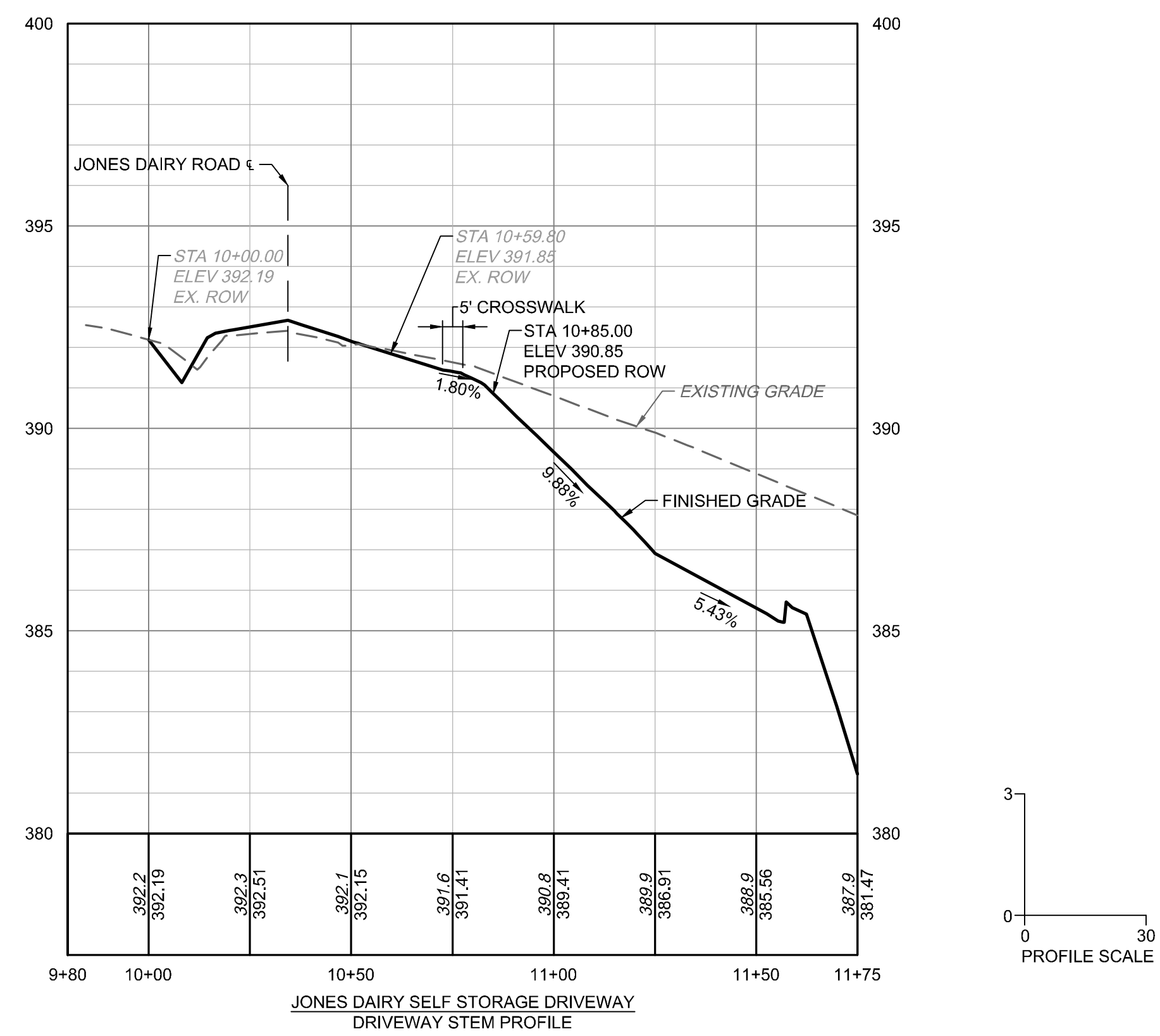
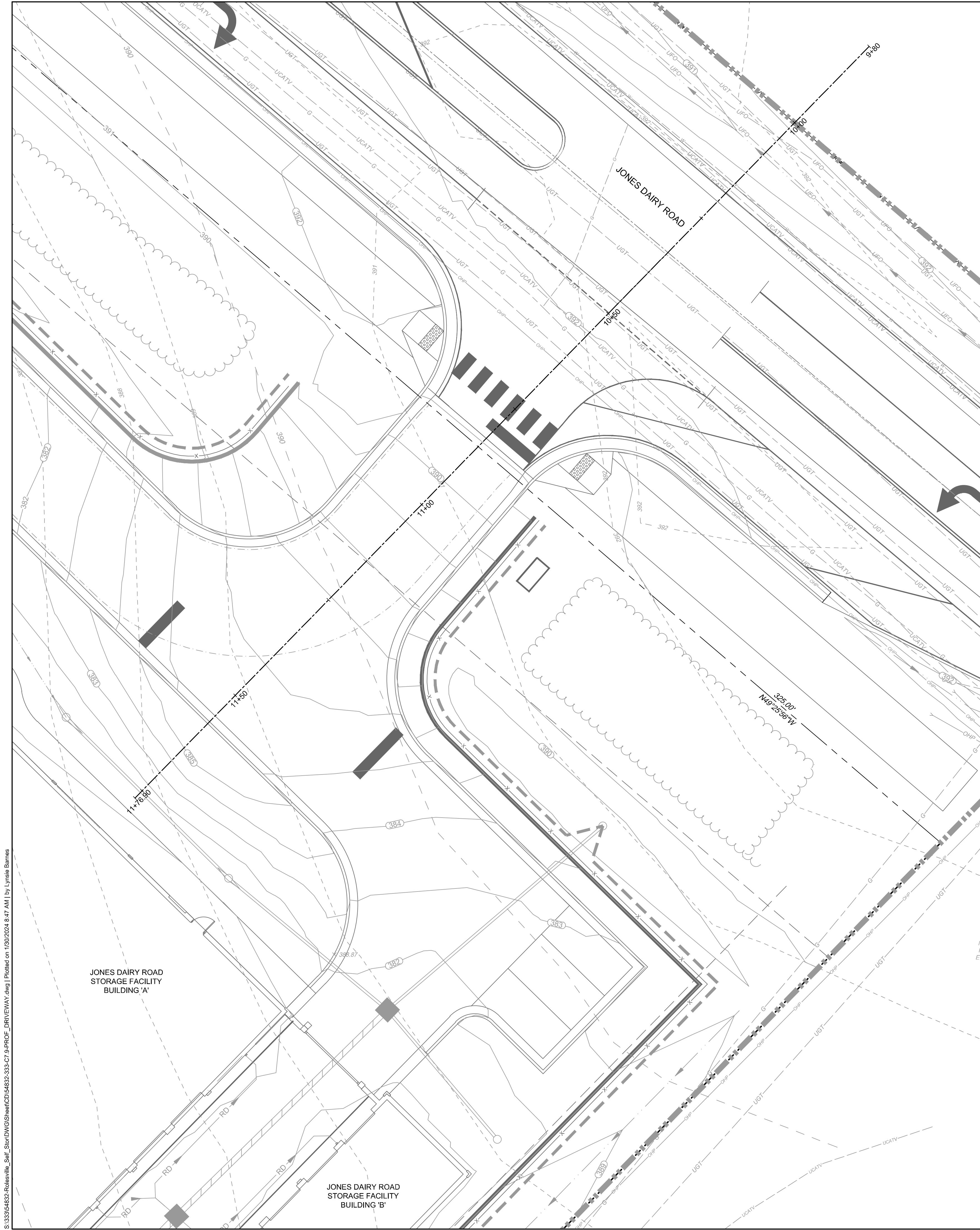
TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

JONES DAIRY ROAD - CROSS SECTIONS STA. 16+00 - 16+50

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 DESIGNED BY: G. FRANK  
 CHECKED BY: G. FRANK  
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**JONES DAIRY STORAGE FACILITY**  
 TOWN OF ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

**JONES DAIRY ROAD DRIVEWAY STEM PROFILE**

JOB NO. 54832  
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