



City Of Torrington

ENGINEERING DEPARTMENT
(860) 489-2234

140 Main Street • City Hall
Torrington, CT 06790-5245
Fax: (860) 489-2550

March 29, 2016,

Re: "Newfield Road Culvert Replacement"

ADDENDUM # 1

- A. Replace the "Plan Showing Existing Culvert at Sta. 75+00 Newfield Road Culvert Replacement" Dated March 16, 2016 plan dated March 28 2016 Revised Pipe Size. This plan has been revised to show the proposed pipe as a 60" HDPE pipe with 54" adapters.
- B. Replace the Bid proposal in its entirety pages C-11A thru C-11D with the enclosed revised Bid Proposal pages C-11A thru C-11D.
- C. Replace the technical specification "Summary of Work" section 01005 with the enclosed Summary of Work" section 01005 dated 3/29/2016
- D. Replace the technical specification "Storm Drainage" section 02500 with the enclosed Storm Drainage" section 02500 dated 3/29/2016

BID PROPOSAL
“Newfield Road Culvert Replacement”
TORRINGTON, CONNECTICUT
BID # NCR-027-040616

The BIDDER, in compliance with the invitation to bid for the **“Newfield Road Culvert Replacement”** project, having examined the plans and specifications with related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all engineering, labor, materials, and supplies, and to construct the project in accordance with the contract documents; within the time set forth therein, and at the unit prices stated below. These prices are to cover all expenses incurred in performing the work required under the contract documents, of which this proposal is a part.

1. PROJECT IDENTIFICATION:

The project work under the Contract Documents may be the whole or only a part is generally described as written in the Technical Specification. The project work for the most part includes replacing an existing corrugated metal pipe culvert with a high density plastic pipe culvert, modifying existing endwalls and associated work and providing associated clearing and turf establishment and pavement restoration. Also included in the project is applying an asphaltic coating to an existing corrugated metal pipe in the project vicinity. The project work includes furnishing all equipment, labor, material, plant, and superintendence to perform all work.

2. THIS BID IS SUBMITTED TO:

The City of Torrington, Torrington, Connecticut 06790

3. BIDDER’S OBLIGATIONS & REPRESENTATIONS

- A. The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an Agreement with the CITY in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Unit Prices and within the Contract Times indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.
- B. This Bid will remain subject to acceptance for 90 days after the day of Bid opening. BIDDER will sign and deliver the required number of counterparts of the Agreement with any Bond and other documents required by the Information for Bidders and Form of Bid within 7 days after the CITY’S Notice of Award date.
- C. In submitting this Bid, BIDDER represents and agrees, as more fully set forth in the Agreement, that:
 - 1. BIDDER has examined and carefully studied the Bid Documents and the following Addenda (Bidder acknowledges receipt of all the following addenda)

<u>Addendum No.</u>	<u>Addendum Date</u>
Addendum # _____	_____
Addendum # _____	_____
Addendum # _____	_____

- 2. BIDDER has visited the Site and become familiar with the general, local and Site conditions that may affect cost, progress, performance and furnishing of the Work.
- 3. BIDDER is familiar with all applicable federal, state, and local Laws and Regulations that may affect cost, progress, performance and furnishing of the Work.
- 4. BIDDER has carefully studied all available reports of explorations and tests of subsurface conditions at or contiguous to the Site and all available drawings of physical conditions relating to existing surface or subsurface structures at or contiguous to the Site which have been made available by CITY or has

performed his own such studies, explorations and tests. BIDDER has correlated the information and observations obtained from visits to the Site, reports and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents.

- D. BIDDER is aware of the general nature of the work to be performed by CITY and others at the Site that relates to Work for which this Bid is submitted as indicated in the Contract Documents.
- E. BIDDER has given CITY written notice of all conflicts, errors, ambiguities or discrepancies that BIDDER has discovered in the Contract Documents and the written resolution thereof by CITY is acceptable to BIDDER, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.
- F. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; BIDDER has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; BIDDER has not solicited or induced any individual or entity to refrain from submitting a Bid; and BIDDER has not sought by collusion to obtain for itself any advantage over any other BIDDER or over CITY.
- G. Any other representation required by Laws and Regulations.

4. CONTRACT BID PRICE

This bid was determined on the basis of the lump sum bid price as shown in below. The bidder understands that the Contract shall be awarded on the basis of the Total Lump Sum Bid amount shown below as Contract Total Bid Price which is the sum total of the Lump Sum Culvert Replacement Price and the Lump Sum Asphaltic Pipe Coating Price. The Contract Total Bid Price will be used as the basis for payment during the construction of the project.

A. Lump Sum Culvert Replacement Price:

(Use words)
(\$ _____)
(Use figures)

B. Lump Sum Asphaltic Pipe Coating Price:

(Use words)
(\$ _____)
(Use figures)

C. CONTRACT TOTAL BID PRICE for:

(Use words)
(\$ _____)
(Use figures)

5. CONTRACT TIMES

A. BIDDER agrees that the Work will be completed within the Milestone limits as follows:

1. Dates for Substantial Completion and Final Payment

The CONTRACTOR shall be substantially complete with the project work within 14 days of the date on the Notice to Proceed. The CONTRACTOR shall have an additional 7 days after the substantial completion date to have all work completed and ready for final payment.

2. BIDDER accepts the provisions of the Contract Agreement as to liquidated damages in the event of failure to complete the Work within the Milestone times specified.

6. EXHIBITS

A. The documents/forms as listed in the Information to Bidders are made a condition of this Bid

7. COMMUNICATIONS

A. Communications concerning this Bid shall be directed to the address, phone number, email address and facsimile number of BIDDER indicated below.

8. TERMINOLOGY

A. The terms used in this Bid which are defined in the Standard General Conditions of the Contract between City and Bidder included as part of the Contract Documents have the meanings assigned to them in the Standard General Conditions. Terms defined in the Invitation to Bid and Information for Bidders are used with the same meaning in this Bid.

9. SUBMISSION

SUBMITTED on _____, 2016

State Contractor License No. _____

If BIDDER is a Corporation

By _____ (SEAL)
(Corporation Name)

(State of incorporation)

By _____ (SEAL)
(Printed Name of person authorized to sign)

Duly Authorized Signature _____ *Title*

Attest _____
(Secretary)

Business address: _____

Phone: _____ Fax #: _____ Email Address: _____

Bidder's DUNS # _____

Date of Qualification to do Business (out-of-state) corporation in Connecticut: _____

If BIDDER is a Partnership

By _____ (SEAL)
(Firm Name)

(General Partner Printed Name)

Duly Authorized Signature _____ *Title*

Business address: _____

Phone: _____ Fax #: _____ Email Address: _____

Bidder's DUNS # _____

If BIDDER is a Joint Venture

By _____ (SEAL)
(Printed Name)

Duly Authorized Signature _____ *Title*

(Business Address)

By _____ (SEAL)
(Printed Name)

Duly Authorized Signature _____ *Title*

(Business Address)

Phone: _____ Fax #: _____ Email Address: _____

Bidder's DUNS # _____

(Each joint venturer must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above).

If BIDDER is an Individual

By _____ (SEAL)
(Individual's Printed Name)

Duly Authorized Signature _____ *Title*

Doing business as _____

Business address: _____

Phone: _____ Fax #: _____ Email Address: _____

Bidder's DUNS # _____

SECTION 01005

SUMMARY OF WORK

PART 1 - GENERAL

1.01 CONTRACT DOCUMENT

The general provisions of the CONTRACT, including General and Supplementary Conditions and General Requirements, apply to the work specified in this sub-section.

1.02 SPECIFICATION ARRANGEMENT

Titles to and arrangements of sections and paragraphs in these specifications are used merely for convenience and shall not be taken as a correct or complete segregation of the several categories of materials, equipment and labor, nor as an attempt to outline or define jurisdictional procedures.

1.03 INTENT

The entire work provided for in the Technical Specifications and on the Drawings shall be constructed and finished in every respect in a good, workmanlike and substantial manner. All parts necessary for the proper and complete execution of the Work whether the same may have been specifically mentioned or not, or indicated in a manner corresponding with the rest of the Work as if the same were particularly described and specially provided for herein. It is not intended that the Drawings shall show every detailed piece of material or equipment, but such parts and pieces as may be in accordance with the best practices and regulatory requirements, even though not shown, shall be furnished and installed. All materials and equipment shall be new unless specifically stated otherwise in these CONTRACT DOCUMENTS.

1.04 SCOPE

The work required by these specifications shall include furnishing all labor, skill, supervision, tools, construction plant, equipment and materials and performing all operations necessary for the properly completed CONTRACT work as shown on the specification drawings, as mentioned in these Specifications and as required, to the complete satisfaction of the CITY and their authorized representatives.

1.05 PROJECT DESCRIPTION

The work involves the construction of the following:

The work includes furnishing all equipment, labor, material, superintendence, and associated restoration work required to complete replacement of an existing 7'x5' corrugated metal arch pipe culvert with a new 60" high density poly ethylene pipe and 54" adapters on Newfield Road, and the applications of new asphaltic coating on an existing 42" pipe on Newfield Road. Work includes excavation, pipe and adapter installation, backfilling, compacting, clearing and grubbing, restoration of road shoulders, paving patch work and, guide rail removal and reinstallation, turf establishment, masonry work on the concrete head wall and end wall, and associated miscellaneous work and materials.

END OF SECTION

SECTION 02500

STORM DRAINAGE

PART 1 - GENERAL

1.01 SCOPE OF THE WORK

- A. Storm drainage work includes, but is not limited to, construction of storm sewers, drainage structures, modification of headwalls and end walls, riprap, ditching, backfilling, shoring, and dewatering of trenches for storm sewers as required for safe and workmanlike construction all in conformity with the lines, grades, dimensions and details shown on the Contract Drawings, or as ordered, and in accordance with the provisions of these technical specifications for the various materials and work which constitute the completed structure.
- B. Pipe bedding in accordance with the details shown on the Contract Drawings is included.

1.02 QUALITY ASSURANCE

- A. Storm drain pipe may be inspected at the manufacturing source as well as at the job site by City.
- B. Contractor shall notify City for inspection of pipe and drainage structure installation prior to backfilling trenches.

1.03 JOB CONDITIONS

- A. Construction of the drainage system shall proceed as early in the construction program as possible. Maintain adequate drainage of the project area at all times. Prevent flooding of adjacent roads and private properties.

PART 2 - MATERIALS

Materials: The materials to be used in the construction shall be those indicated on the Contract Drawings or ordered by the Engineer and shall conform to CDOT Form 816 Standard Specification, Section M.08. Protective compound material shall conform to CDOT Form 816 Standard Specification, Section M.03.01-11. Pervious material shall conform to CDOT Form 816 Standard Specification, Section M.02.05.

2.01 BEDDING MATERIAL

- A. Bedding material shall comply with CDOT Form 816 Standard Specification, Section M.02 and M.01.01 which shall be 3/4" broken stone – No. 6.

2.02 STORM DRAIN PIPE MATERIALS

- A. 60" High Density Polyethylene Storm pipe and 54" adapters (HDPE) shall be smooth interior surface (Type S) without perforations, conforming to CDOT Form 816 Standard Specification, Section M.08.01.

2.05 APPURTENANCE MATERIAL

A. Brick:

- 1. Clay or Shale Brick: Comply with ASTM C32 for sewer brick and manhole brick, grade as selected. Brick dimensions shall be 4" x 8" x 2½" nominal and shall yield the wall thickness as shown on the plans.
- 2. Concrete Masonry Units: Comply with ASTM C139.

- B. Mortar shall conform to CDOT Form 816 Standard Specification, Section M.11.04 and comply with ASTM C270, Type M, for the pipe joints and manhole and inlet brickwork.

- C. Concrete for storm drainage construction shall be in accordance with CDOT Form 816 Standard Specification, Section M.03.01. Strength shall be 4,000 psi at age 28 days.

PART 3 - CONSTRUCTION METHODS

3.01 GENERAL

- A. All pipes will be laid in an open trench of dimensions as shown in Details on the Contract Drawings. No projecting pipe conditions will be allowed.
- B. Lengths of storm drain pipe shown on the Contract Drawings are approximate distances inside wall to inside wall of structures. Contractor shall install pipe based on actual field conditions. Slopes of pipe specified on the Contract Drawings shall be verified by field measurement prior to trenching.

3.02 STRUCTURES

- 1. The existing headwall openings are for an elliptical pipe shape. The contractor shall place the new round shape 60" HDPE pipe into this opening using detailed HDPE adapters and seal up the excess openings with a concrete collar as shown on the contract drawings. Concrete shall conform to section 2.05 C.

3.03 PIPE LAYING

- A. Pipe laying shall proceed upgrade where practicable. Pipe shall be laid true to line and grade with a straight and uniform invert. Pipe shall not be laid in a wet or muddy

trench. Trenches shall be dewatered as required and the bottom shall be firm, smooth, and properly shaped as specified.

3.04 BACKFILLING

- A. Backfilling above crushed stone bedding shall be done with selected material, free from rocks larger than 5 inches in size and free of debris. Crushed stone shall be carefully placed and tamped around and over the pipe to avoid displacement of the pipe or damage to the joints. All backfill shall be placed in 8-inch lifts and shall meet material and compaction requirements of Section 02220 of the City of Torrington Special Provisions/Technical Specifications.

3.05 APPURTENANCES

- A. All drainage structures are to be constructed as shown on the Contract Drawings. Refer to site plans for location and size.
 - 1. All pipe entering drainage structures shall be cut and ground smooth with the face of the wall. Breaking the pipe will not be acceptable.
 - 2. All joints around pipe and structure walls at the face of the wall shall be packed full with mortar.
 - 3. The bottom of drainage structures shall be clean of all debris and walls shall be wiped clean of mortar as work progresses.
 - 4. Pipes or drainage structures shall not be broken by impact methods. Cutting of pipe with a pipe saw is required. Alteration or modification of any drainage structure shall be accomplished by means of saw cutting or coring. All reasonable precautions shall be taken to prevent damage to the pipes and drainage structures.

3.08 CLEANUP

- A. Pipes and structures shall be left clean and free from mud or debris of any kind. When looked through, each line between structures shall show a full circle of light. Otherwise, Contractor shall be required to remove and replace the defective portion of the work.

3.08 WORKMANSHIP

- A. Any pipe which is not in true alignment and grade and properly placed as to the center line of the road or which shows any undue settlement after laying, or is damaged, shall be taken up and re-laid or replaced without extra compensation.

3.09 CONNECTIONS TO EXISTING STORM SEWERS AND STRUCTURES

- A. The CONTRACTOR shall make all connections to the existing facilities as indicated on the Contract Drawings and as herein specified, or as directed.
- B. The CONTRACTOR shall furnish all pipe, fittings and appurtenances. The CONTRACTOR shall do all excavation and backfill as required.

- C. Existing pipelines damaged by the CONTRACTOR shall be replaced by him at his own expense in a manner approved by the ENGINEER.

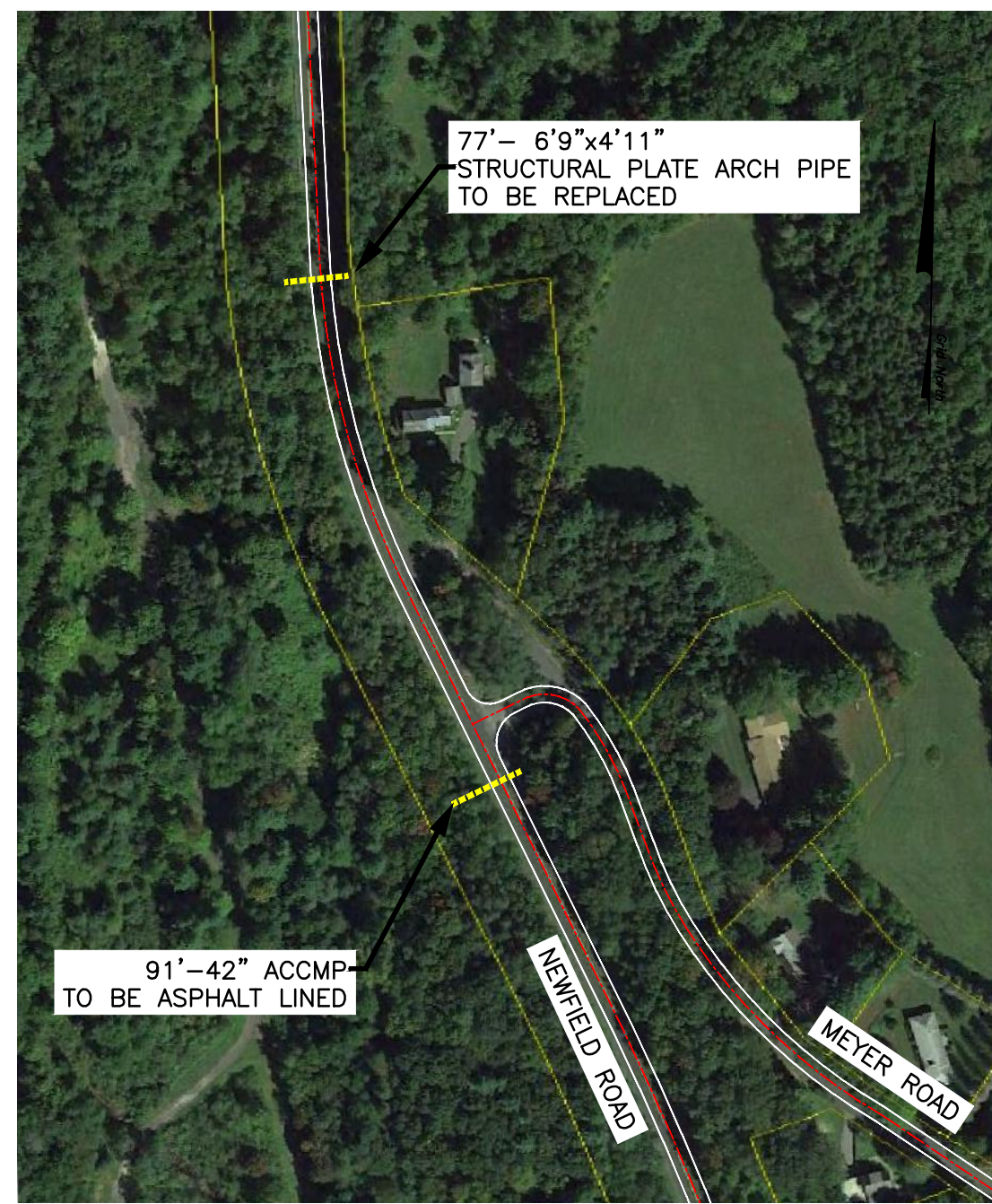
3.10 INTERFERENCE

- A. The CONTRACTOR shall develop a program for the construction and placing in service of the new works subject to the approval of the ENGINEER. All works involving cutting into and connecting to the existing facilities shall be planned so as to interfere with operation of the existing facilities for the shortest possible time and when the demands on the system best permit such interference even to the extent of working outside of normal working hours to meet these requirements.
- B. The CONTRACTOR shall have all possible preparatory work done and shall provide all labor, tools, material supervision and equipment required to do the work in one continuous operation.
- C. The CONTRACTOR shall have no claim for additional compensation, by reason of delay or inconvenience, for adapting his operations to the needs of the public.

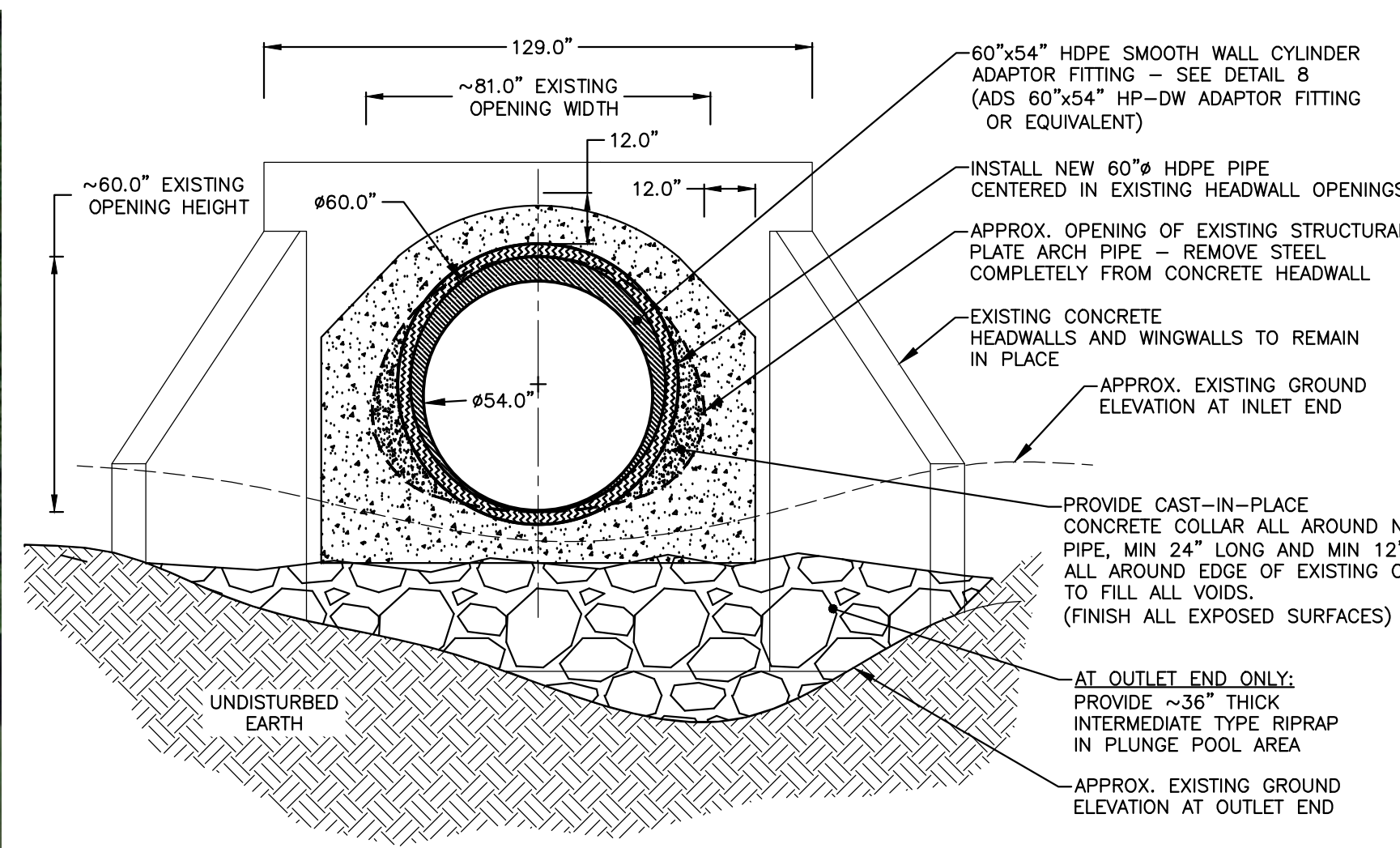
PART 4 – METHOD OF MEASUREMENT AND PAYMENT

This item will not be measured for payment. All costs in connection with this work shall be included in the Contract lump sum bid price.

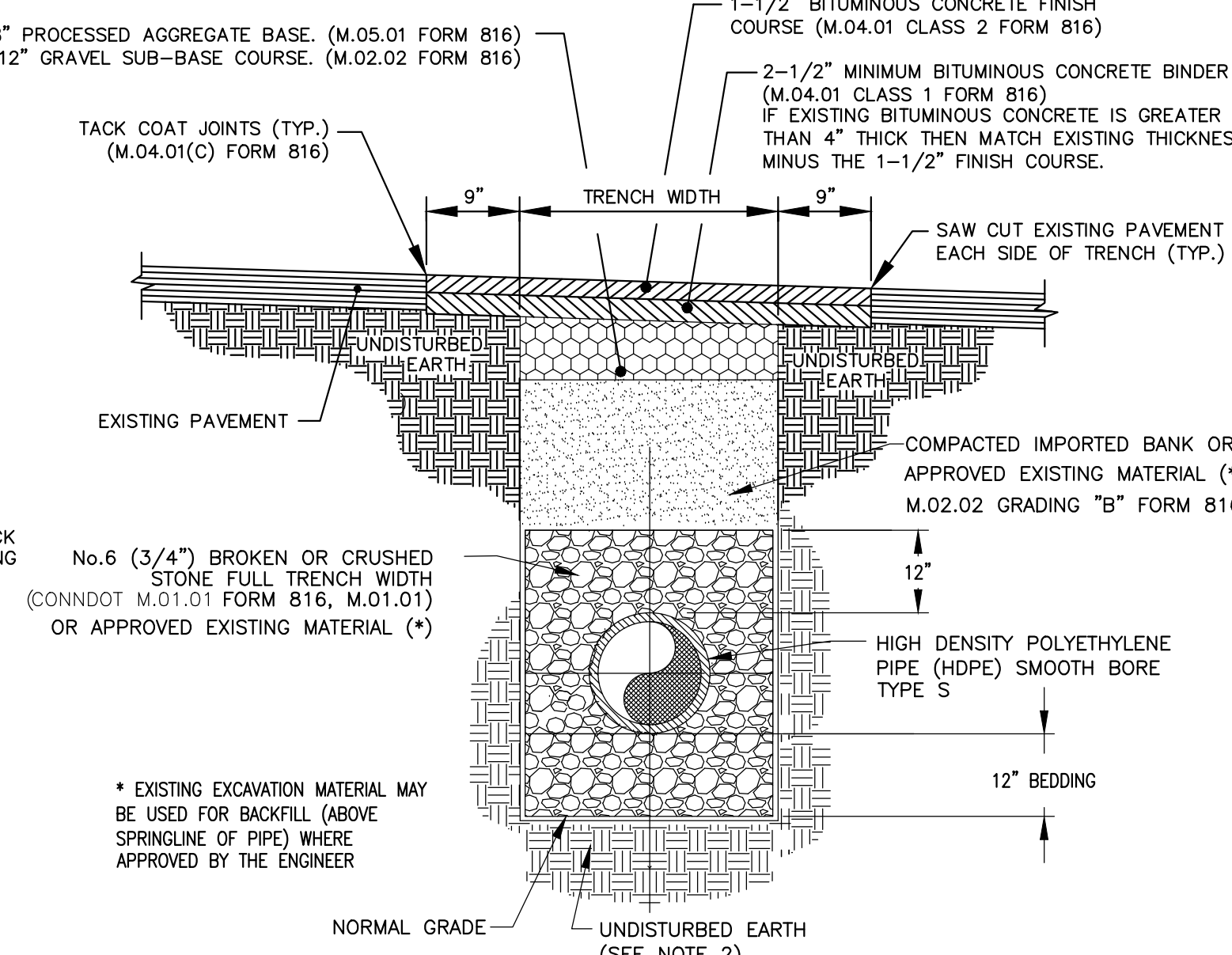
END OF SECTION



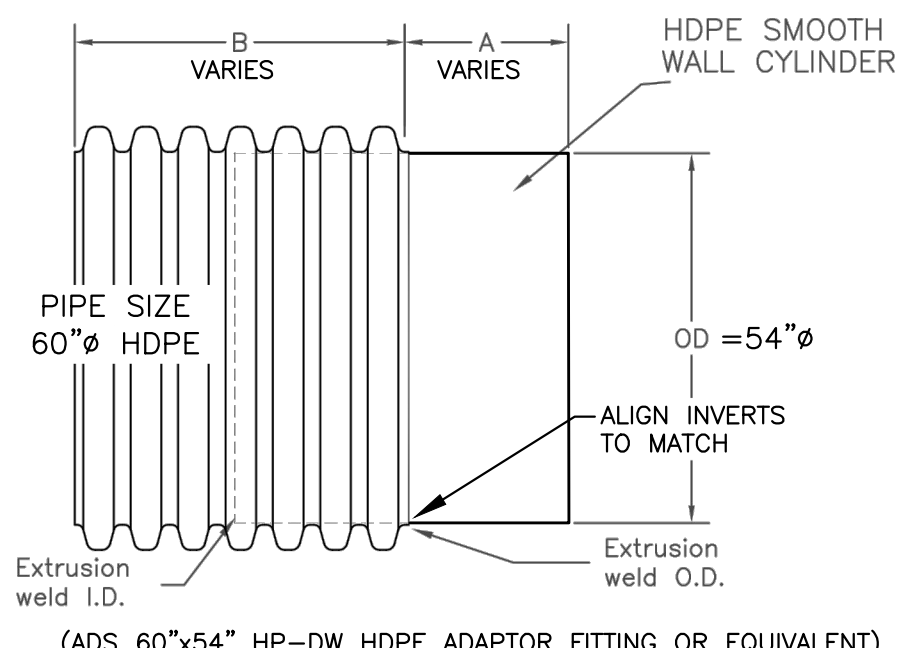
1 GENERAL SITE PLAN
SCALE: NTS



3 CULVERT END SECTION DETAIL
NTS

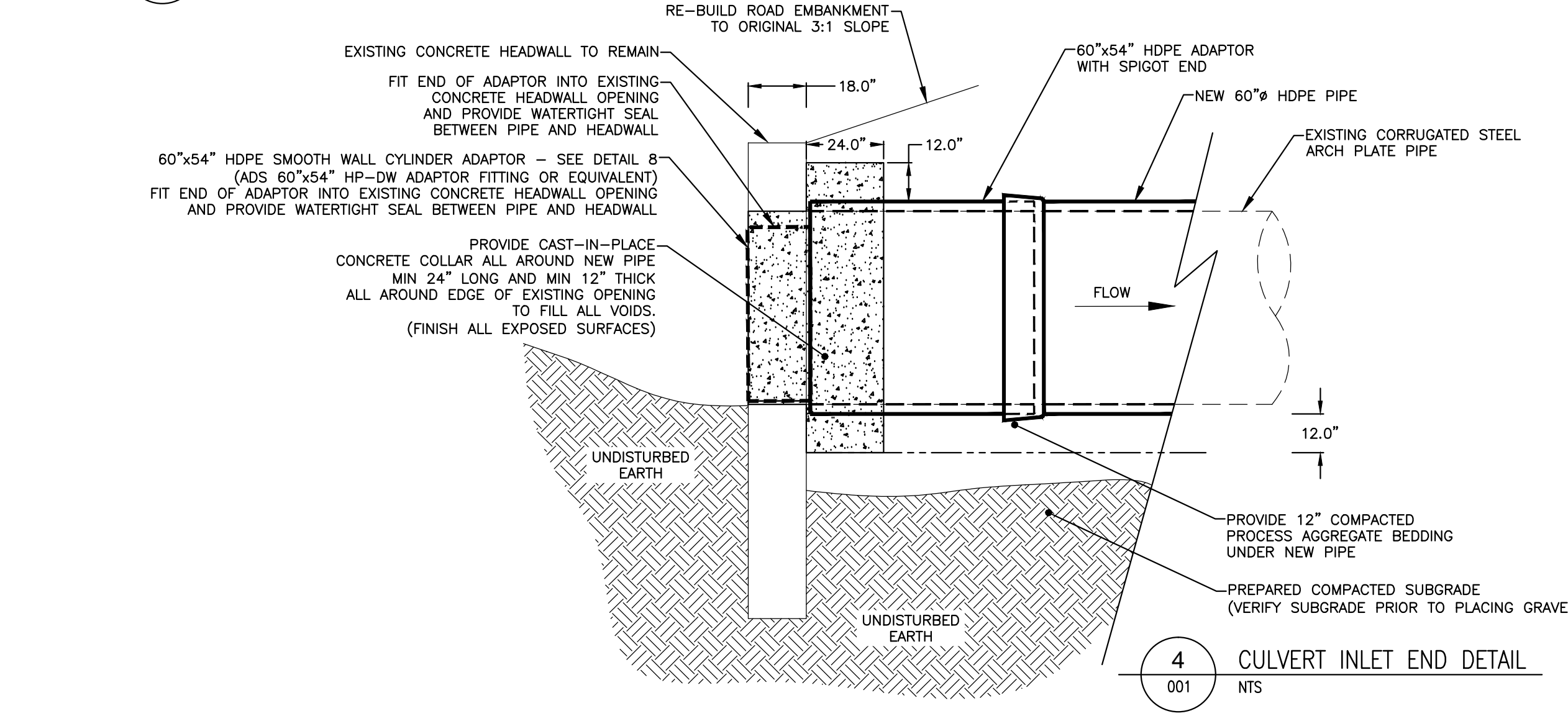


2 TYPICAL STORM DRAINAGE TRENCH HDPE PIPE IN PAVED AREAS
SCALE: NTS

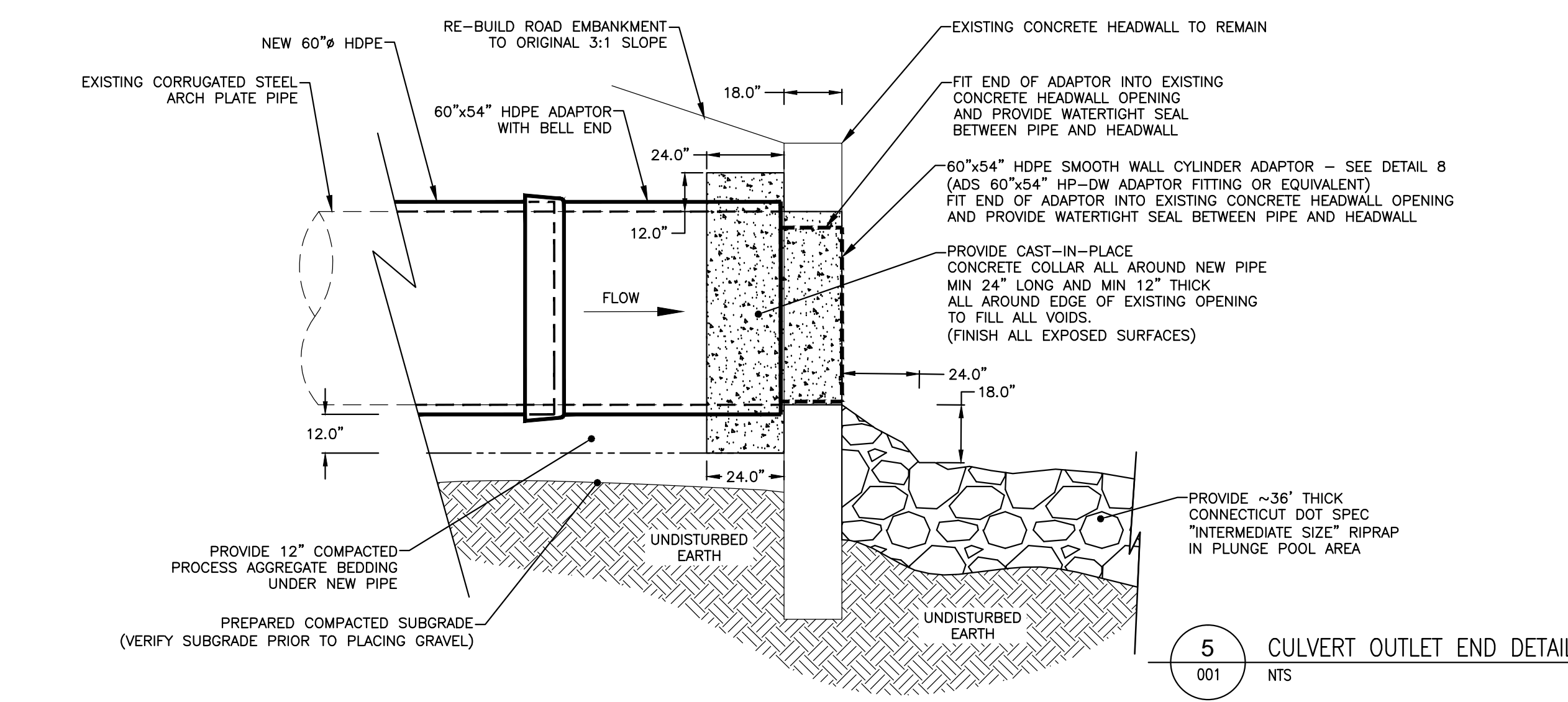


8 60"x54" HDPE ADAPTOR FITTING
NTS

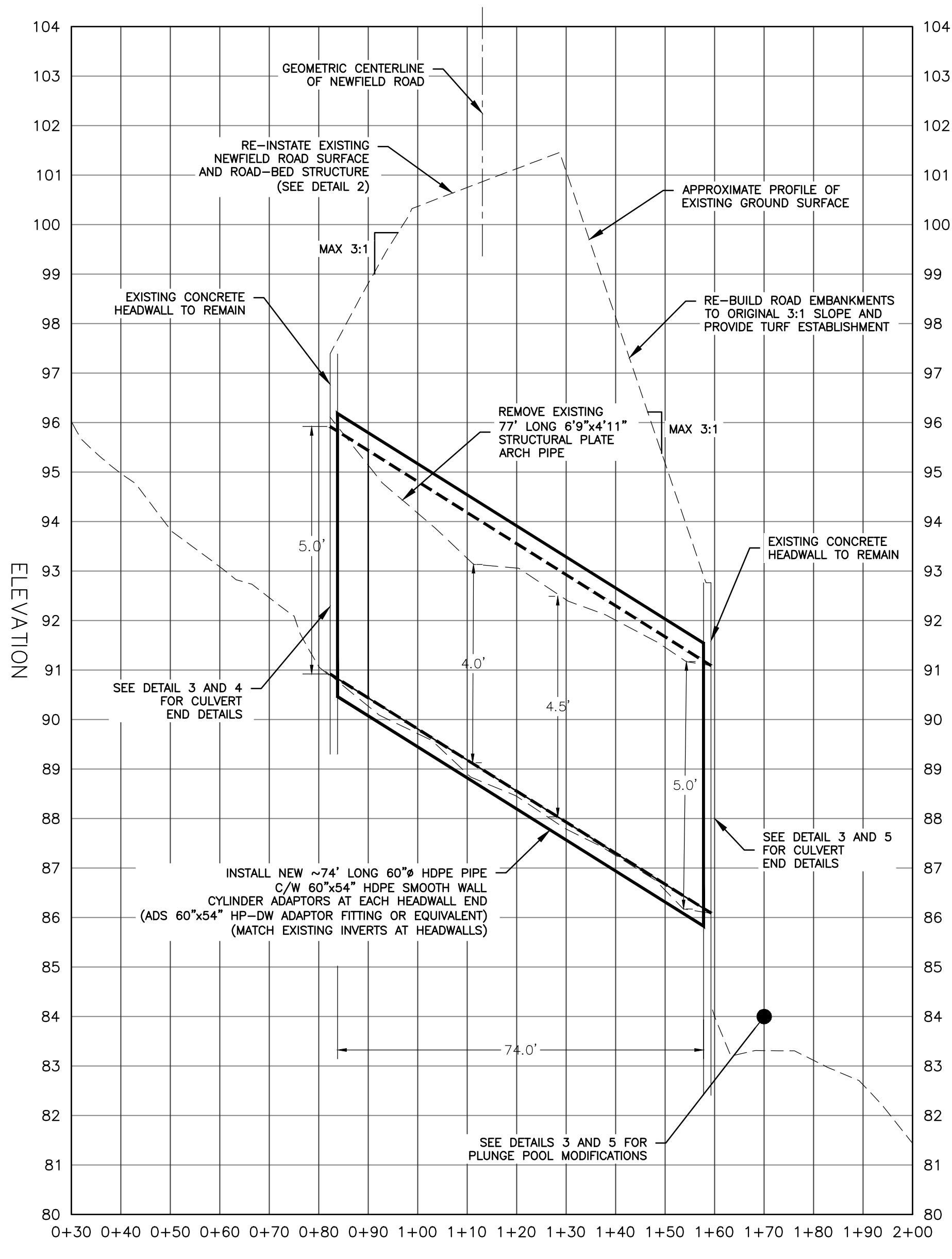
NOTES:
 1. BEDDING SHALL BE No.6 (3/4") CRUSHED STONE (CONDOT FORM 816 M.01.01) AS DIRECTED BY THE CITY ENGINEER.
 2. UNSUITABLE MATERIAL BELOW NORMAL GRADE SHALL BE REPLACED WITH No.6(3/4") CRUSHED STONE (CONDOT FORM 816, ART. M.01.01) AS DIRECTED BY THE CITY ENGINEER.
 3. ALL WORK MUST BE CONDUCTED IN STRICT ACCORDANCE WITH THE LATEST REGULATIONS OF OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) FOR EXCAVATIONS.
 4. IF EDGE OF TRENCH IS WITHIN TWO (2) FEET OF CURBED GUTTER LINE OR UNPAVED SHOULDER, THEN REMOVE AND REPLACE PAVEMENT.
 5. SHORING REQUIRED PER OSHA STANDARDS.



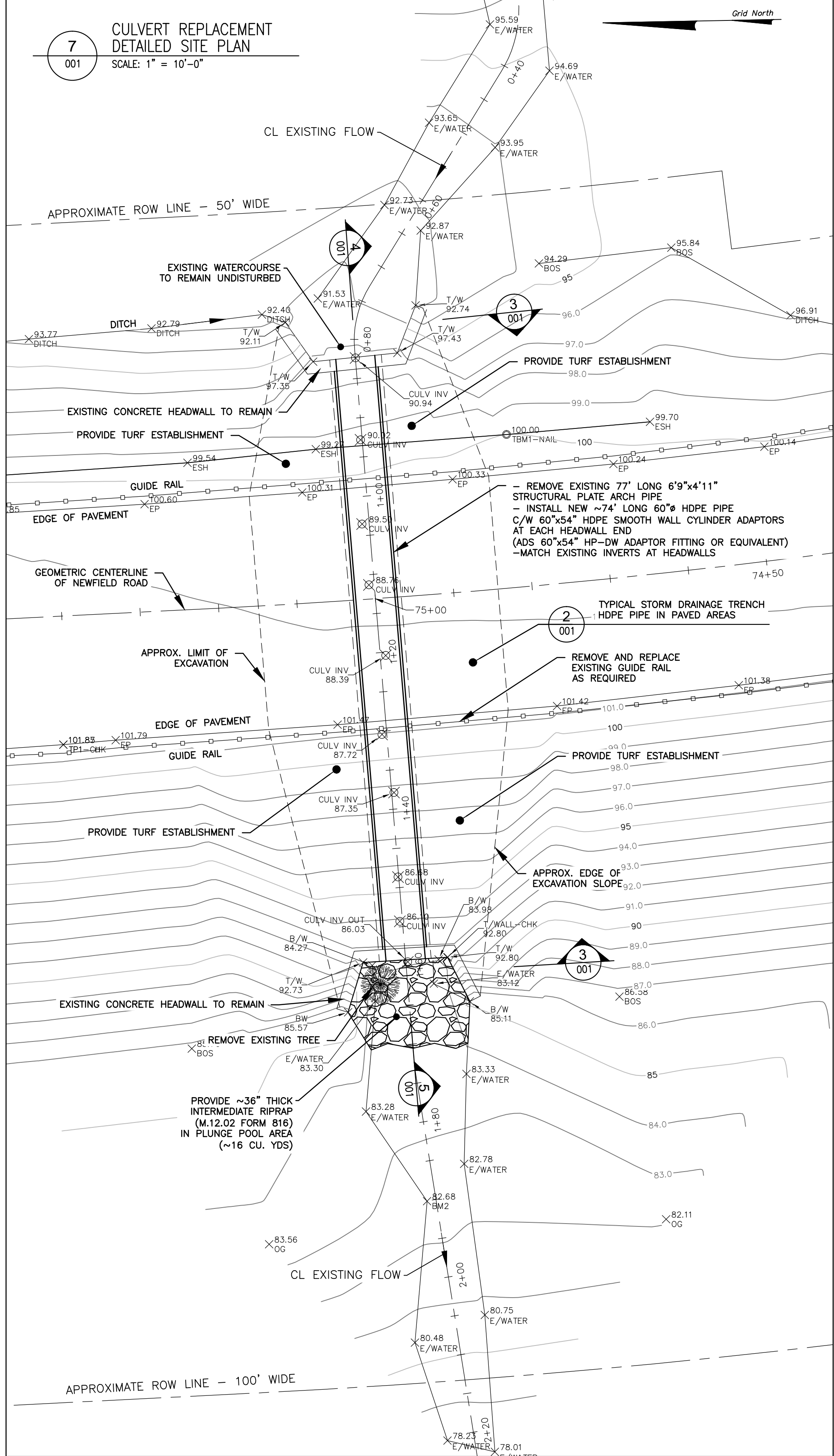
4 CULVERT INLET END DETAIL
NTS



5 CULVERT OUTLET END DETAIL
NTS



6 CULVERT PROFILE
SCALE: H: 1"=20'-0" V: 1"=2'



NOTES:
 1. CONTOURS SHOW EXISTING GRADES AT 1.0 FT INTERVAL
 2. ELEVATIONS SHOWN ARE IN UNITS OF FEET AND ARE SET TO LOCAL ASSUMED ELEVATION.
 3. TBM1-NAIL SET AT ASSUMED ELEVATION OF 100.0 FEET.
 4. ALL WORK TO CONFORM TO CITY OF TORRINGTON STANDARD SPECIFICATIONS/DETAILS AND APPLICABLE TENDER DOCUMENTS AND CONNECTICUT DOT SPECIFICATIONS WHERE APPLICABLE.

#	DATE	REVISION	P/J/K/K
1	16/03/16	ISSUED FOR TENDER	P/J/K/K
2	28/03/16	REVISED PIPE SIZE	P/J/K/K

Plan Showing Existing Culvert at STA 75+00 Newfield Road CULVERT REPLACEMENT
 prepared by
 City of Torrington Engineering Department

MARCH, 2016
 Scale: AS SHOWN

Drawn P/J/K/K
 Checked: M.W.
 SHEET NO. 001 OF 001

IMPORTANT NOTE:
 UNDERGROUND UTILITIES ARE APPROXIMATE
 PRIOR TO ANY EXCAVATION OR CONSTRUCTION CONTACT -
 "CALL BEFORE YOU DIG" 1-800-822-4455

1 INCH