

300 CHASE PARK SOUTH • SUITE 200 • HOOVER, ALABAMA 35244  
205-988-9112

**ADDENDUM NO. 5**  
**ADDITIONS AND ALTERATIONS TO HOMER SMILES STADIUM**  
**Architect Job No. 23-125**  
**September 24, 2024**  
**DCM # 20240208**

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**BIDS DUE:**

**Tuesday, October 1, 2024, until  
2:00 p.m., local time, held at  
Leeds City Board of Education  
1517 Hurst Ave. NE  
Leeds, AL 35094**

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The Plans and Specifications are hereby amended. The following supersedes all contrary and/or conflicting information and is made part of the contract documents.

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**GENERAL**

1. Please see the attached sign-in sheet from the Non-Mandatory Pre-Bid meeting held on September 19, 2024.

**SPECIFICATIONS**

1. **DELETE** Section 02760 – Synthetic Turf Field Conversion in its entirety and **ADD** the attached Section – 321814 – Synthetic Turf to replace it in its entirety. Synthetic Turf is for concrete Plaza areas ONLY. Existing football field to remain.

**DRAWINGS**

1. See REVISED Sheet C3.1 – Added underdrains for synthetic turf areas.
2. See REVISED Sheet C6.1 – Added underdrain detail.

**CLARIFICATIONS**

1. Reference Sheet E4.1 – Lower-Level Floor Plan – Power:
  - A. The power circuit for the elevator is not shown. Circuit to serve elevator is fed from a 100/3 shunt trip breaker in panel MPA. The 100/3 shunt trip breaker shall be connected to the fire alarm system. The elevator will be served with a 100/3 raintight fusible disconnect and fed with 3#3 & 1#8(G) THWN in 1-1/4" conduit. Verify circuit size with elevator manufacturer who is awarded this project.

**PART 1 - GENERAL:**

- 1.01** Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

**1.02 SUMMARY:**

- A. Furnish all labor, materials, tools and equipment necessary to all synthetic turf as indicated on the Drawings. The installation of all new materials shall be performed in strict accordance with the manufacturer's installation instructions and in accordance with all approved shop drawings.
- B. Perimeter edge attachment required for the system shall be as shown on the Drawings and as recommended by the manufacturer.
- C. Related Work includes:
  - 1. Section 32 1812 – Synthetic Turf Base and Drainage

**1.03 STANDARDS:**

- A. ASTM Standard Test Methods:
  - D5848 Standard Test Method for Mass Per Unit Area of Pile Yarn Floor Covering
  - D418 Standard Test Method for Testing Pile Yarn Floor Covering Construction
  - D1335 Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings
  - D1682 Standard Method of Test for Breaking Load and Elongation of Textile Fabrics
  - D5034 Standard Test Method of Breaking Strength and Elongation of Textile Fabrics(Grab Test)
  - F1015 Standard Test Method for Relative Abrasiveness of Synthetic Turf Playing Surfaces
  - D4491 Standard Test Methods for Water Permeability of Geotextiles by Permittivity
  - D2859 Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials
  - F355 Standard Test Method for Shock-Absorbing Properties of Playing Surfaces.
  - F1936 Standard Test Method for Shock-Absorbing Properties of North American Football Field Playing Systems as Measured in the Field
  - D1557 Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort.
  - D5823 Standard Test Method for Tuft Height of Pile Yarn Floorcoverings
  - F1551 Standard Test Methods for Comprehensive Characterization of Synthetic Turf Playing Surfaces and Materials: Suffix DIN 18-035, Part 6: Water Permeability of Synthetic Turf Systems and Permeable Bases
  - D3218 Standard Specification of Polyolefin Monofilaments (Ribbon Thickness & Width)
  - D1907 Standard Test Method for Linear Density of Yarn by the Skein Method
- B. The Synthetic Turf Council, Inc., Suggested Guidelines for the Essential Elements of Synthetic Turf Systems.

**1.4 SUBMITTALS:**

- A. Prior to the Architect approval of a specified synthetic turf system, specify in writing that turf system does not violate any other manufacturer's patents, patents allowed or patents pending.

- B. Standard printed specifications of the synthetic turf system to be installed on this project along with Manufacturer's data.
- C. An affidavit attesting that the synthetic turf material to be installed meets the requirements defined by the manufacturer's currently published specifications and any modifications outlined in those technical specifications.
- D. Three (3) synthetic turf samples, 8"x8" in size, of each color of the same synthetic turf to be installed.
- E. Prior to ordering of materials:
  - 1. Submit Shop Drawings indicating:
    - a) Layout.
    - b) Methods of attachment and perimeter conditions.
    - e) Installation details
  - 2. Submit the fiber manufacturer's name, type of fiber and composition of fiber.
- F. Prior to Final Acceptance, submit to the Owner:
  - 1. Three (3) copies of Maintenance Manuals, which will include all necessary instructions for the proper care and preventative maintenance of the synthetic turf system, including painting and markings.
  - 2. Project Record Documents: Record actual locations of seams, drains or other pertinent information.
  - 3. Warranty: Submit Manufacturer Warranty and ensure that forms have been completed in Owner's name and registered with Manufacturer.

#### **1.5 QUALITY ASSURANCE:**

- A. Installer Qualifications:
  - 1. Provide competent workmen skilled in this specific type of synthetic grass installation.
  - 2. The designated supervisory personnel on the project must be certified, in writing by the turf Manufacturer, as competent in the installation of this material, including sewing seams and proper installation of the infill mixture.
  - 3. The Manufacturer shall have a representative on site to certify the installation and Warranty compliance.
- B. Prior to the beginning of installation, the installer of the synthetic turf shall inspect the sub-base and accept in writing the sub-base surface planarity and compaction.

#### **1.6 DELIVERY, STORAGE, AND HANDLING:**

- A. Deliver products to project site in wrapped condition.
- B. Store products under cover and elevated above grade.

#### **1.7 WARRANTIES:**

- A. Refer to General Conditions of the Contract for additional requirements.
- B. Provide a warranty to the owner that covers defects in materials and workmanship of the turf for a period of 8 years from the date of Substantial Completion. The turf manufacturer must verify that their onsite representative has inspected the installation and that the work conforms to the manufacturer's requirements.
- C. The turf manufacturer's warranty shall include general wear and damage caused from UV degradation. The warranty shall specifically exclude vandalism, and acts of God beyond the control of the owner or the manufacturer.
- D. Provide a Warranty to the owner that covers defects in the installation workmanship, and

further warrant that the installation was done in accordance with both the manufacturer's recommendations and any written directives of the Manufacturer's onsite representative.

- E. All turf warranties shall be non-prorated, limited to repair or replacement of the affected areas, at the option of the Manufacturer, and shall include all necessary materials, labor, transportation costs, etc. to complete said repairs. All warranties are contingent on the full payment by the Owner of all pertinent invoices.
- F. Provide a Warranty to the Owner that the proposed products, materials, and processes do not infringe any patents or other intellectual property owned or controlled by the third party, and are not the subject of any notice, allegation, assertion, claim, or suit by a third party that the products, materials, or processes infringe a patent or other intellectual property owned or controlled by the third party.
- G. If a third party alleges, asserts, or claims that products, materials, or processes submitted infringe patents or other intellectual property owned or controlled by the third party, fully indemnify, and hold harmless the Owner and Design Consultants from and against any such allegation, assertion, or claim, and all associated suits, actions, demands, losses, liabilities, judgments, awards, damages, payments, settlements, costs, fees, and expenses. This duty to defend, fully indemnify, and hold harmless specifically includes, without limitation, all costs incurred by the Owner and Design Consultants to replace the infringing products, materials, or processes.

## **2.0 PRODUCTS:**

### **2.1 GENERAL:**

- A. The turf fabric shall be manufactured and installed by a sole responsible entity. Installation "subcontractors" shall not be permitted unless pre-qualified and approved by the Landscape Architect.
- B. All components and their installation method shall be designed and manufactured for the use on outdoor installations. The materials specified are to withstand full climate exposure, be resistant to insect infestation, rot, fungus, mildew, ultra-violet light and heat degradation, and shall have the basic characteristics of flow through drainage, allowing free movement of surface run-off through the turf and into the subsurface drainage layer.
- C. The finished playing surface shall appear as mowed grass with no irregularities.

### **2.2 APPROVED MANUFACTURERS/MODEL:**

- A. FieldTurf - ZeroLawn ZL12 (Basis of Design)
- B. Act Global/Xtreme Turf – Multiplay
- C. Challenger Turf – ELFR2
- D. Approved Substitute

### **2.3 APPROVED INFILL MATERIAL (min. 4#/SF) :**

- A. Sand, Approved by Manufacturer
- B. Approved Substitute

### **2.4 MISCELLANEOUS:**

- A. Thread for sewing seams of turf shall be as recommended by the synthetic turf Manufacturer.
- B. Glue and seaming fabric for inlaying lines and markings shall be as recommended by the synthetic turf Manufacturer.

## **PART 3 - EXECUTION:**

### **3.1 GENERAL:**

- A. The installation shall be performed in full compliance with approved Shop Drawings.
- B. Only trained technicians, skilled in the installation of athletic synthetic turf systems working under the direct supervision of the approved installer supervisors, shall undertake any cutting, sewing, gluing, topdressing or brushing operations.
- C. The designated supervisory personnel on the project must be certified, in writing by the turf Manufacturer, as competent in the installation of the system.

### **3.2 EXAMINATION:**

- A. Verify that all sub-base, drainage and leveling is complete prior to installation.
- B. The surface to receive the synthetic turf shall be inspected by the Installer, and prior to the beginning of installation, the Installer must accept in writing the sub-base surface planarity and compaction. The surface must be perfectly clean as installation commences and shall be maintained in that condition throughout the process.
- C. The compaction of the aggregate base shall be 98%, according to Standard Proctor, and the surface tolerance shall not exceed 0-1/4 inch over 10 feet and 0-1/2" from design grade.

### **3.3 INSTALLATION:**

- A. Install system in accordance with Manufacturer's instructions. Any variance from these requirements must be accepted in writing, by the Manufacturer's onsite representative, and submitted to the Landscape Architect/Owner, verifying that the changes do not in any way affect the warranty. Infill materials shall be approved by the Manufacturer and installed in accordance with the Manufacturer's standard procedures.
- B. The carpet rolls are to be installed directly over the properly prepared base. Extreme care should be taken to avoid disturbing the base, both in regard to compaction and planarity. Repair and properly compact any disturbed areas of the base.
- C. The carpet rolls shall be laid out across the installation area. Turf shall be of sufficient length to limit seams. Utilizing sewing or gluing procedures, each roll shall be attached to the next.
- D. Infill materials shall be applied in numerous thin lifts. The turf shall be brushed as the mixture is applied. The infill material shall be installed to a depth determined by the Manufacturer. The Infill materials shall be installed to fill the voids between the fibers and allow the fibers to remain vertical and non-directional.
- E. Synthetic turf shall be attached to the perimeter edge detail in accordance with the Manufacturer's standard procedures. Edge detail shall result in a straight, tight, firmly attached edge that will resist de- lamination forces associated with normal use.

### **3.5 CLEANING:**

- A. Protect installed turf from subsequent construction operations.
- B. Do not permit traffic over unprotected surface.
- C. Contractor shall provide the labor, supplies, and equipment as necessary for final cleaning of surfaces and installed items.

- D. All usable remnants of new material shall be come the property of the Owner.
- E. The Contractor shall keep the area clean throughout the project and clear of debris.
- F. Surfaces, recesses, enclosures, etc., shall be cleaned as necessary to leave the work area in a clean, immaculate condition ready for immediate occupancy and use by the Owner.

**3.6 OTHER MATERIALS AND EQUIPMENT:**

- A. Repair Materials – Upon substantial completion, provide directly to Owner the following items in the minimum quantities indicated:
  - 1. Turf Fabric, 500 sf with at least one piece 15' wide and 30' long.
  - 2. 250 lbs. infill in weatherproof bags.

**END OF SECTION**





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LATHAN  
ARCHITECTS

ADDITIONS AND ALTERATIONS TO:  
**HOMER SMILES STADIUM**  
1771 WHITMIRE STREET, LEEDS, AL 35094  
LEEDS CITY SCHOOLS



SHEET TITLE:  
DRAINAGE PLAN

PROJ. MGR.: CAH  
DRAWN: LBH  
DATE: JUNE 28, 2024

REVISIONS  
1 9/23/24-ADD #5

JOB NO. 23-125  
SHEET NO:

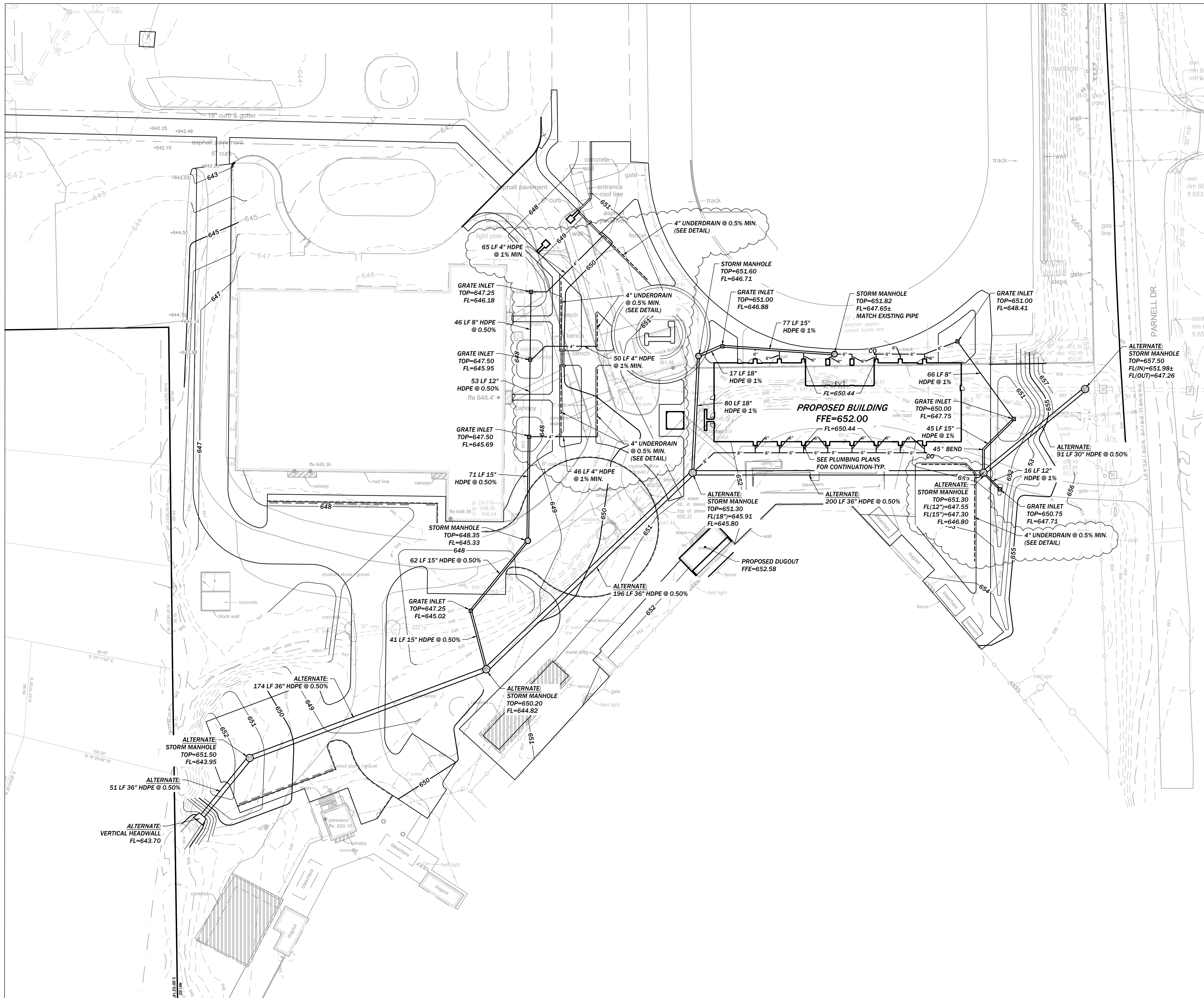
C3.1

NOTES:

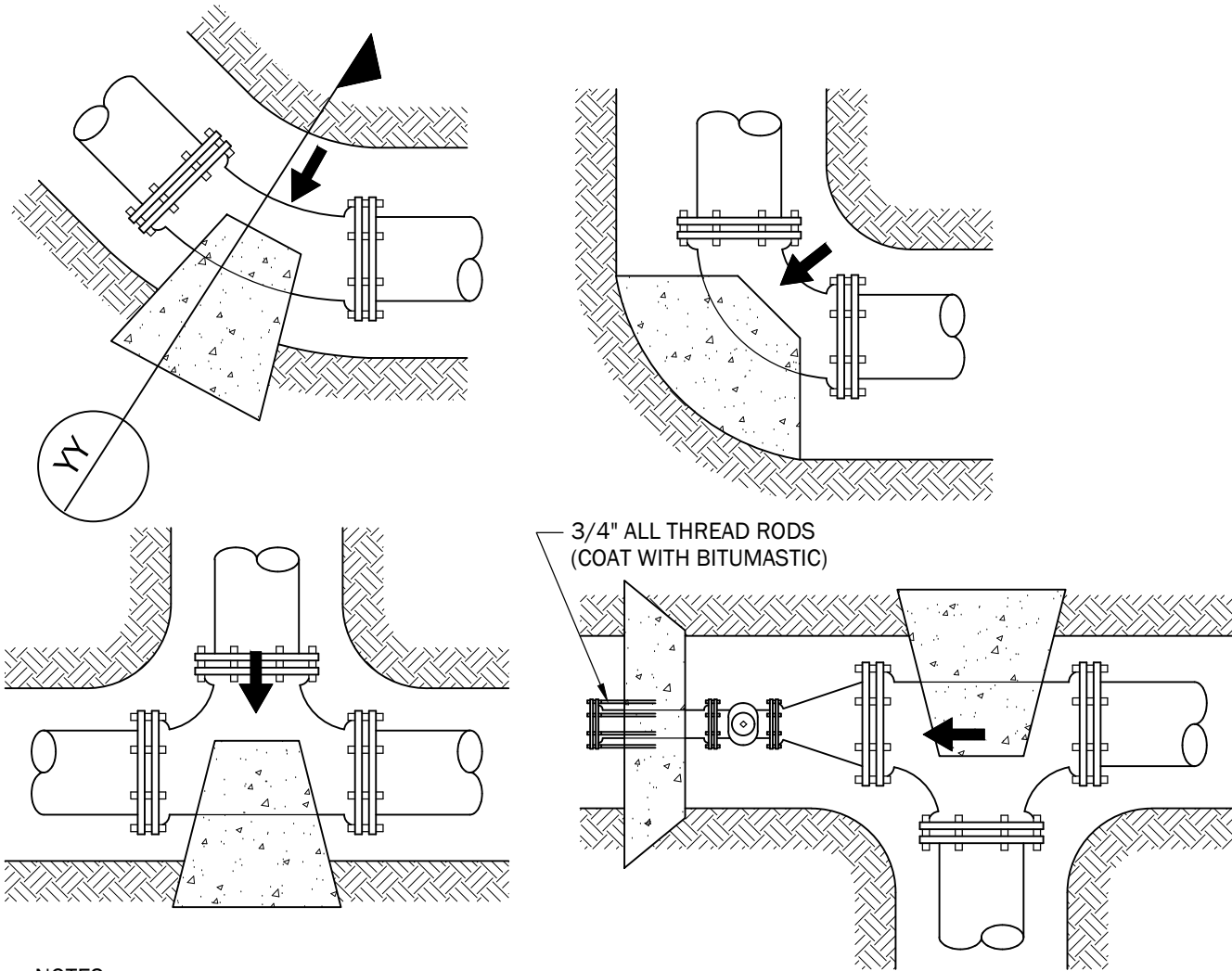
- SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
- SEE SHEET C3.0 FOR DETAILED GRADING INFORMATION.
- ALL ROOF DRAINS SHALL BE HDPE PIPE INSTALLED @ 1% MIN SLOPE.



0 30 60 90  
SCALE: 1"=30'







- NOTES:
- THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.
  - CONCRETE SHALL BE KEPT CLEAR OF JOINT AND JOINT ACCESSORIES.
  - BEARING AREA OF THRUST BLOCKS ARE BASED ON 150 PSI TEST PRESSURE AND AN ALLOWABLE SOIL BEARING OF 2000 PSF. BEARING AREAS VALUES SHALL BE ADJUSTED IF THE SPECIFICATIONS REQUIRE A DIFFERENT TEST PRESSURE OR ALLOWABLE SOIL BEARING. PROVIDE ADDITIONAL AREA IF DICTATED BY THE CONDITIONS ACTUALLY ENCOUNTERED.
  - ANY SPECIAL THRUST BLOCKING DETAILED ON THE PLANS SHALL SUPERSEDE THIS DETAIL.
  - VERTICAL BENDS THAT REQUIRE A THRUST BLOCK VOLUME GREATER THAN 5 C.Y. REQUIRE SPECIAL BLOCKING DETAILS.
  - ALL PRESSURE PIPE 3 INCHES IN DIAMETER AND OVER SHALL BE PROVIDED WITH CONCRETE THRUST RESTRAINTS.

**THRUST BLOCKING DETAILS & NOTES**  
NOT TO SCALE

TABLE "A"  
BEARING AREA FOR THRUST BLOCKS SHALL BE ADJUSTED TO MATCH FIELD CONDITIONS ENCOUNTERED.

DIA. (IN.)	TEE, WYE, PLUG, CAP	MINIMUM BEARING AREA OF THRUST BLOCKS (SQ. FT.)			
		90° BEND PLUGGED CROSS	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.3	2.0	1.0	—	—
6	2.8	4.0	2.0	—	—
8	4.8	6.8	3.7	1.9	1.0
10	7.3	10.3	5.5	2.8	1.4
12	10.3	14.5	7.8	4.0	2.0
14	13.8	19.5	10.6	5.4	2.7
16	17.8	25.2	13.6	6.9	3.5
18	22.4	31.7	17.1	8.7	4.4
20	27.5	38.9	21.0	10.7	5.4
24	39.2	55.4	30.0	15.3	7.7
30	60.3	85.3	46.2	23.5	11.8
36	86.4	122.2	66.1	33.7	16.9
42	116.6	164.9	89.3	45.5	22.8
48	152.0	214.9	116.3	59.3	29.7
54	192.0	271.6	147.0	74.9	37.6

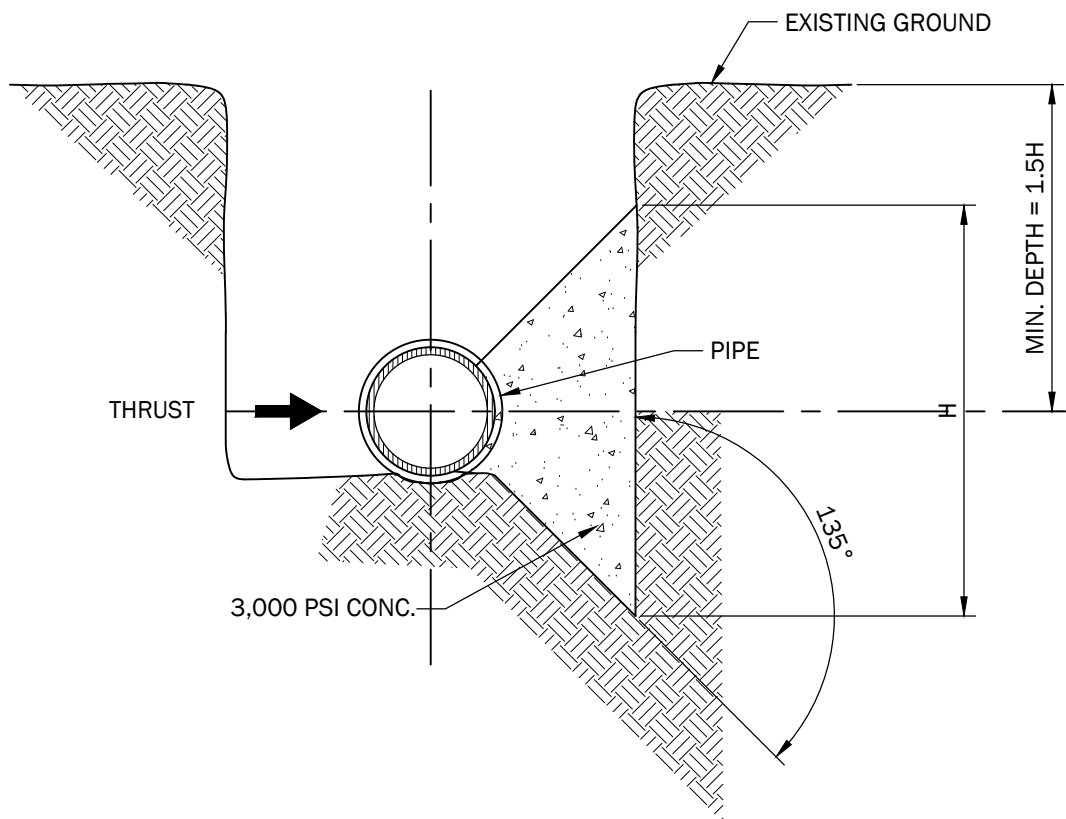
MINIMUM REQUIRED BEARING AREA FOR CONCRETE THRUST BLOCKS  
HORIZONTAL

FITTING SIZE	BEND ANGLE		
	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.1	0.4	0.2
6	2.7	1.0	0.4
8	4.0	1.5	0.7
10	6.0	2.3	0.9
12	8.5	3.2	1.3
14	11.5	4.3	1.8
16	14.8	5.6	2.3

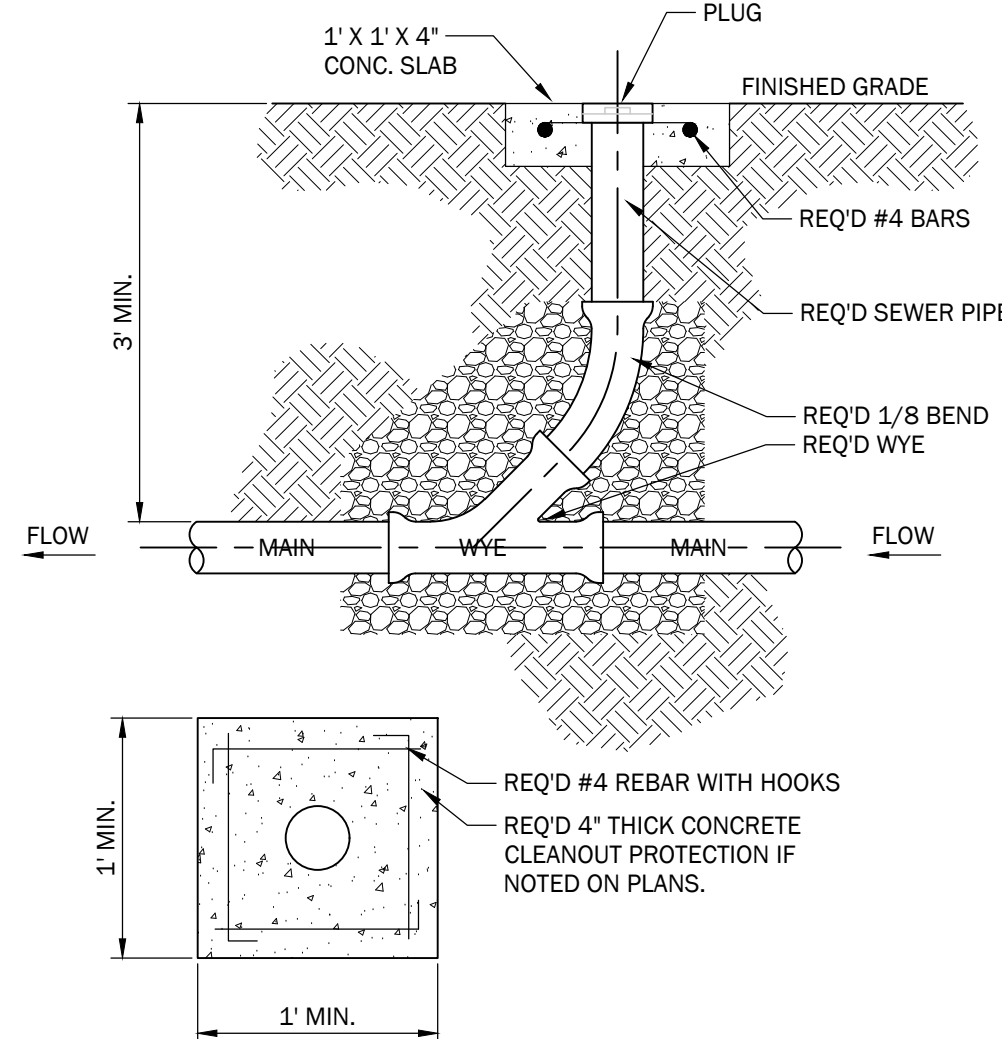
VERTICAL

STEEL RODS OVER FITTING AND EMBEDDED IN CONCRETE. COAT WITH BITUMASTIC. (SEE TABLE TO THE RIGHT FOR SIZES AND EMBEDMENT.)

FITTING SIZE	ROD SIZE	EMBEDMENT SIZE
12" and less	6	30"
14" - 16"	8	36"

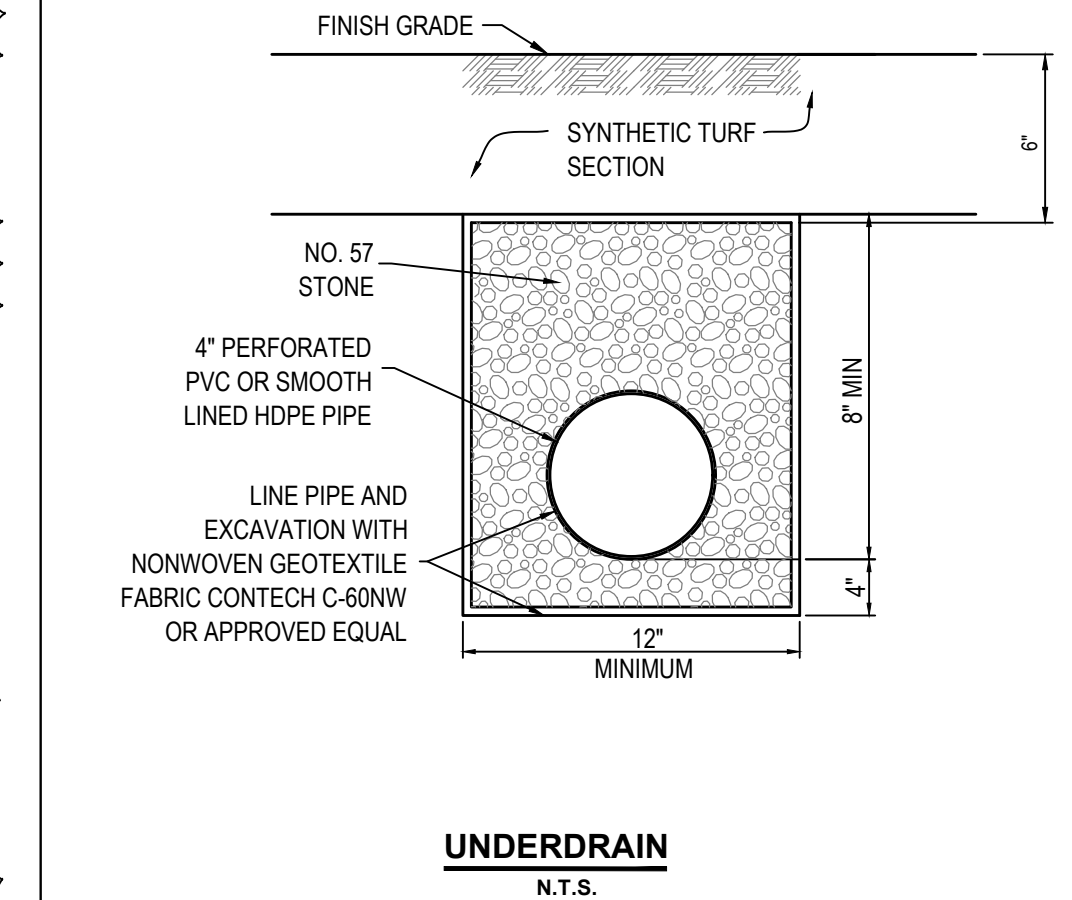


**TYP. SECTION @ THRUST BLOCKS**  
NOT TO SCALE

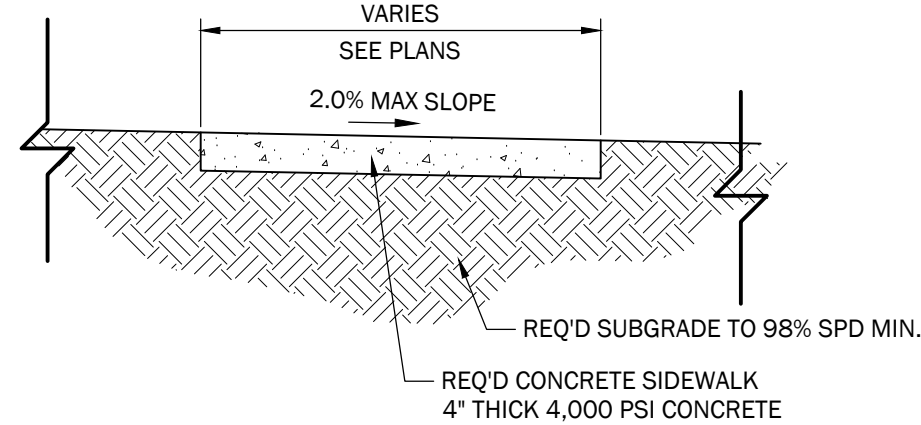
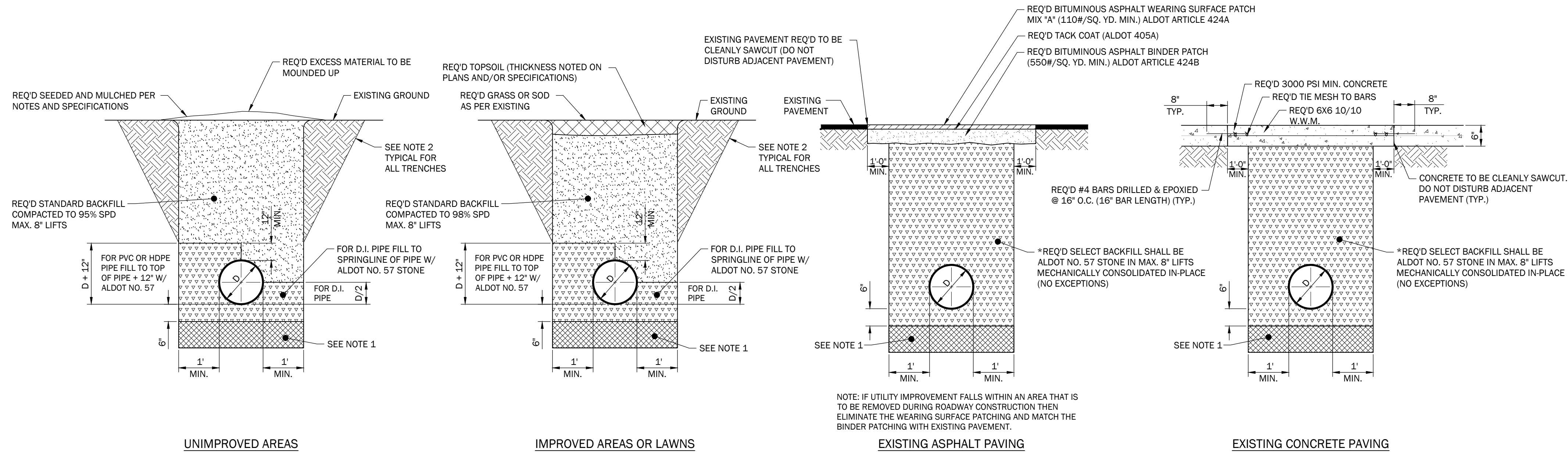


- NOTES:
- CLEANOUT CONCRETE PROTECTION SHALL BE USED AS NOTED ON THE PLANS.
  - CLEANOUTS LOCATED IN PAVED AREAS (SIDEWALK, ROADWAYS, ETC.) SHALL HAVE TRAFFIC RATED TOPS.

**CLEANOUT DETAIL**  
NOT TO SCALE



**UNDERDRAIN**  
N.T.S.

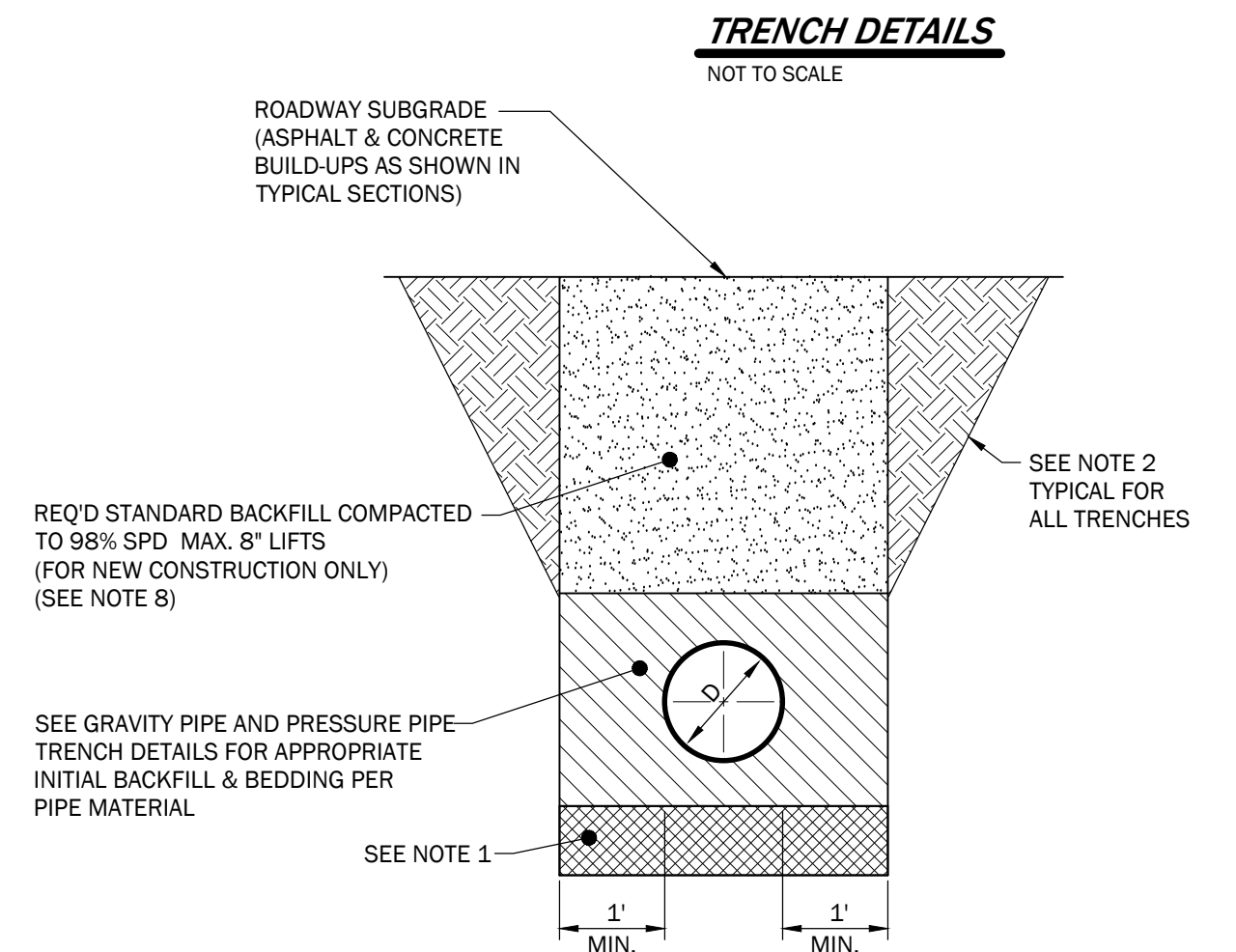


- NOTES:
- EXPANSION JT. REQ'D. @ 40' MAX. INTERVALS BUT NOT LESS THAN 30' WITH EXPANSION JOINT MATERIAL.
  - CONTRACTION JOINTS SHALL BE HAND-TOOLED ONLY IN LOCATIONS AS INDICATED BY THE SCORING PATTERN SHOWN IN THE CONSTRUCTION PLANS. JOINTS SHALL BE INSTALLED AT A DEPTH OF 1/4 THICKNESS OF THE SLAB MIN. NO SAW-CUT OF JOINTS IS ALLOWED.
  - SIDEWALKS SHALL HAVE AN EXPANSION JOINT INSTALLED IN ALL LOCATIONS WHERE NEW IMPROVEMENTS MEET EXISTING INFRASTRUCTURE.
  - SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
  - THE CONTRACTOR SHALL PROVIDE 3 MOCKUP PANELS (AT MINIMUM 3' X 3' IN SIZE) THAT HE FLOATS LIGHT BROOM, MEDIUM BROOM, AND HEAVY BROOM. THE OWNER WILL CHOOSE THE FINISH THEY DESIRE FOR THE PROJECT AND THE CONTRACTOR WILL PROCEED AS DIRECTED.
  - ALL STONE SHALL BE MECHANICALLY COMPACTED IN PLACE. NO EXCEPTIONS.
  - CONTRACTOR SHALL REFERENCE THE PLANS FOR THE CONCRETE SIDEWALK SCORING PATTERN. THE CONTRACTOR SHALL MATCH THIS PATTERN AS SHOWN.
  - EXPANSION JOINT MATERIAL SHALL BE PUSHED DOWN 1/8" FROM TOP OF SIDEWALK.
  - EXPANSION JOINT MATERIAL SHALL BE CONTINUOUS THROUGH THE OVERALL DEPTH OF THE SIDEWALK.

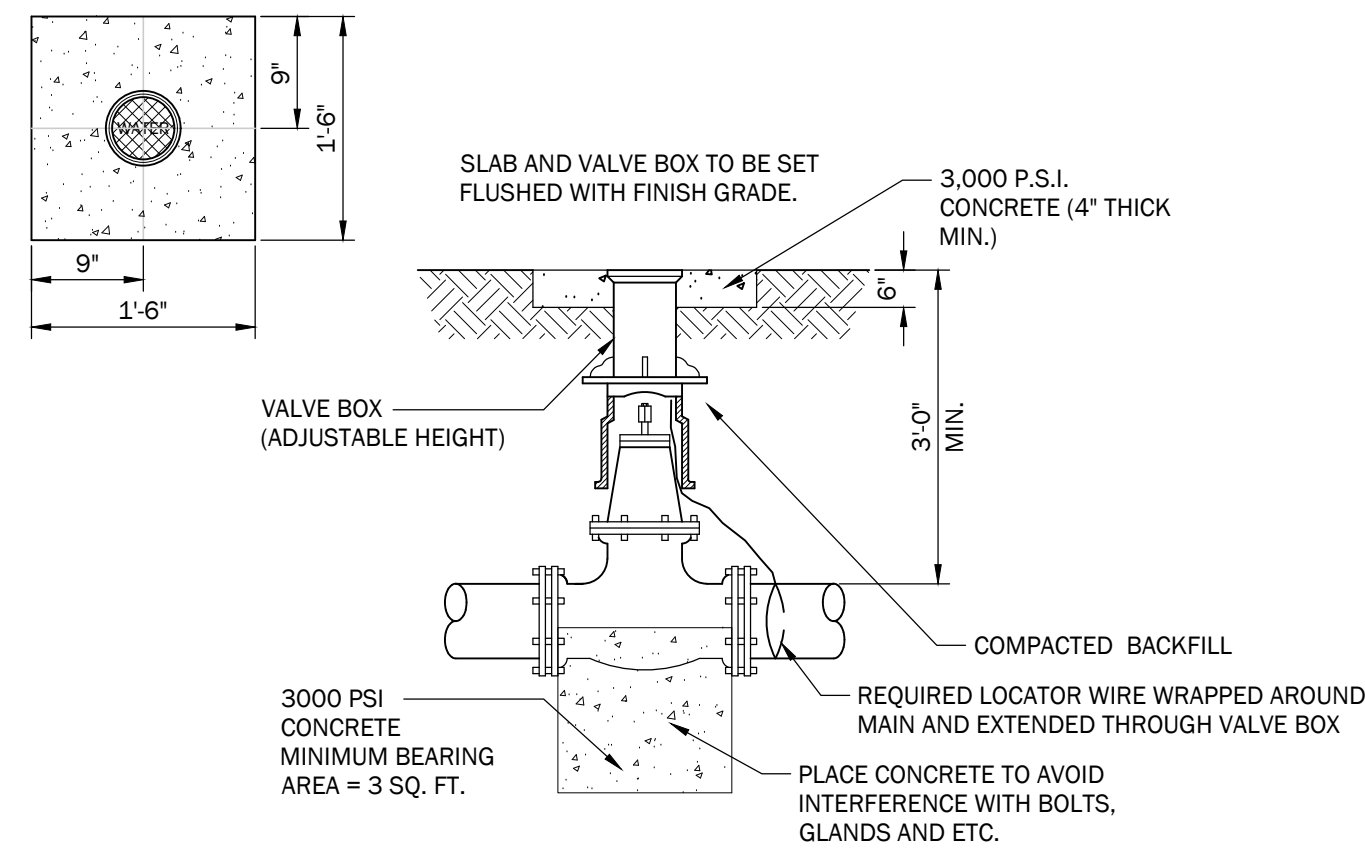
**CONCRETE SIDEWALK**  
NOT TO SCALE

- TRENCH DETAIL NOTES**
- TRENCH FOUNDATION REQUIRED IF DIRECTED BY THE ENGINEER, DEPTH VARIES.
  - THERE IS NO ADDITIONAL PAY FOR TRENCH LAY BACK, BENCHING, SHORING, TRENCH BOXES, ETC. THIS IS CONSIDERED A SUBSIDIARY OBLIGATION TO THE UTILITY INSTALLATION.
  - THE CONTRACTOR SHALL MECHANICALLY CONSOLIDATE ALL STONE BACKFILL IN MAXIMUM 8" LIFTS AS NOTED. FAILURE TO DO SO SHALL RESULT IN THE STONE BEING REMOVED/REINSTALLED AT THE CONTRACTOR'S EXPENSE OR ONLY PARTIAL PAYMENT BEING MADE FOR THE BID ITEM. STONE SHALL BE PLACED IN APPROPRIATE THICKNESS AND COMPACTED IN THE FOLLOWING SEQUENCE:  
(1) BEDDING (6" MIN.)  
(2) SPRINGLINE OF PIPE  
(3) ONE FOOT ABOVE TOP OF PIPE  
(4) 8" LIFTS FOR REMAINING TRENCH DEPTH
  - UNIMPROVED AREAS SHALL BE CONSIDERED AREAS WHERE NO PREVIOUS DEVELOPMENT HAS OCCURRED AND THE AREA IS NOT MAINTAINED REGULARLY SUCH AS A WOODED/FORRESTED AREA OR OPEN FIELD.
  - IMPROVED AREAS OR LAWNS SHALL BE CONSIDERED AREAS WHERE REGULAR MAINTENANCE OCCURS SUCH AS IN PUBLIC RIGHT-OF-WAYS AND ON PRIVATE PROPERTIES. SETTLEMENT OF ANY KIND IN THESE AREAS IS UNACCEPTABLE AND MAXIMUM EFFORT SHALL BE GIVEN TO ENSURE THE IMPROVED/LANDSCAPE AREAS ARE RETURNED TO THEIR PREVIOUS STATE, UNLESS FURTHER IMPROVED BY THE PROJECT.
  - PAVEMENT AREAS (ASPHALT OR CONCRETE) SHALL BE CONSIDERED ANY ROADWAY, DRIVE, SIDEWALK, PAVERS, PARKING LOT, ETC. WHERE THE EXISTING OR FINAL FINISH GRADE IS AN ASPHALT OR CONCRETE SURFACE.
  - IN AREAS OF EXISTING PAVEMENT, THE TRENCH SHALL BE BACKFILLED COMPLETELY WITH STONE AS SHOWN ON THE EXISTING PAVEMENT TRENCH DETAILS. THESE AREAS INCLUDE CROSSING OF EXISTING ROADWAYS, PARKING LOTS, SIDEWALKS, ETC., AND ARE AREAS WHERE EXCAVATED WIDTHS DO NOT ALLOW FOR COMPACTION AND TESTING OF STANDARD BACKFILL. THESE CONFINED AREAS TYPICALLY CANNOT BE BENCHED BACK AND REQUIRE TALLER TRENCH BOXES TO MAINTAIN OSHA REQUIREMENTS.

IN THE EVENT THAT THE EXISTING PAVEMENT AREA IS BEING COMPLETELY REMOVED TO A LIMIT THAT PROVIDES SUFFICIENT SPACE TO ALLOW PROPER VIBRATORY EQUIPMENT AND, IF NECESSARY, BENCHING OF SIDE SLOPES AS REQUIRED IN THE PROJECT EARTHWORK SPECIFICATIONS (BENCHING IS REQUIRED ON SLOPES GREATER THAN 4:1 SLOPE), THEN THE CONTRACTOR MAY FOLLOW THE TRENCH DETAIL FOR PAVED AREAS (NEW CONSTRUCTION). THIS DETAIL ALLOWS FOR THE USE OF EARTHEN BACKFILL AND WOULD ALSO REQUIRE THE CONTRACTOR TO ALLOW SUFFICIENT WIDTH THAT THE OWNER'S GEOTECHNICAL REPRESENTATIVE COULD TAKE PERIODIC COMPACTION TESTS. IF THE CONTRACTOR IS UNSURE OF WHERE STONE OR EARTHEN BACKFILL IS TO BE INSTALLED ON A PROSPECTIVE PROJECT, THEN THEY SHALL REQUEST CLARIFICATION DURING THE BIDDING OF THE PROJECT. THERE SHALL BE NO CLAIMS CONSIDERED AFTER THE PROJECT HAS BEEN BID.



**TRENCH DETAIL - PAVED SURFACES (NEW CONSTRUCTION)**  
NOT TO SCALE



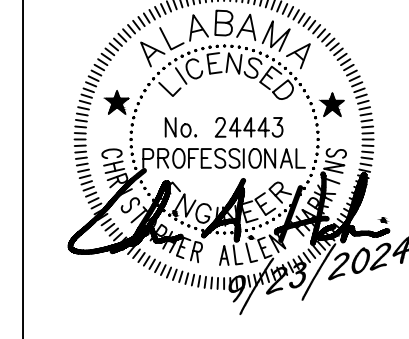
**GATE VALVE AND BOX DETAIL**  
NOT TO SCALE

**TTL**

Job No.: 241101225

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ADDITIONS AND ALTERATIONS TO:  
**HOMER SMILES STADIUM**  
1771 WHITMIRE STREET, LEEDS, AL 35094  
LEEDS CITY SCHOOLS



SHEET TITLE:  
CIVIL DETAILS

PROJ. MGR.: CAH  
DRAWN: LBH  
DATE: JUNE 28, 2024  
REVISIONS  
1 9/23/24-ADD #5

JOB NO. 23-125  
SHEET NO:

C6.1

