



# Robertson County Tennessee

*Jody Stewart, Finance Director*

*Finance Department*

523 South Brown Street, Springfield, TN 37172

(615) 384-0202

Fax (615) 384-0237

POST DATE: **June 16, 2023**

## **BID 1526: Earthwork and Asphalt Paving for Innovation Academy Parking Lots**

Pre-Bid Meeting: **June 22, 2023 at 10:00 AM**

The pre-bid meeting will be held at Innovation Academy located at  
715 5<sup>th</sup> Ave W, Springfield, TN 37172

Sealed bids must be received by: **June 29, 2023 at 10:00 AM**

Robertson County Finance Office  
523 South Brown Street  
Springfield, TN 37172

**THE OUTSIDE OF THE ENVELOPE MUST BE MARKED WITH THE BIDDER'S COMPANY NAME, ITEM BID, TIME OF BID OPENING, DATE OF BID OPENING, BID NO. 1526 AND MUST BE MARKED "SEALED BID, DO NOT OPEN."**

Bids are opened and read aloud to the public at the Robertson County Finance Office, 523 S. Brown Street, Springfield, TN 37172 immediately after the bid receipt deadline. Each vendor may submit more than one bid provided each bid meets the stated specifications. Each bid must be submitted in a separate sealed envelope with the appropriate notation on the outside. All bids must be signed by an authorized agent and submitted on the prescribed forms. Submission of bids by telegraph, telephone, or other electronic means is strictly prohibited. Any brand name called for the bid specifications is provided as a reference only. Alternate brand name items offered for bid must be equivalent as to function, basic design, type and quality of material, method of construction, and any required dimensions. Bidder must attach a letter of exception to specifications.

For assistance with technical / product information contact Clint Corbin, Supervisor, School Building and Grounds at (615) 384-0213. For assistance with bid procedures contact Taylor Tomblin, Robertson County Finance Office at (615) 384-0202 or by email: [ttomblin@robcofn.org](mailto:ttomblin@robcofn.org).

**Note: Robertson County reserves the right to reject any or all bids, to waive any technicalities or informalities, and to accept any bid deemed in the best interest of the County. All bids will be considered in accordance with Title VI and without regard to age, sex, color, race, creed, national origin, religious persuasion, marital status, political belief, or disability that does not prohibit the performance of duty.**

ROBERTSON COUNTY SCHOOLS  
BID 1526 INFORMATION

For

Earthwork and Asphalt Paving  
Innovation Academy Parking Lots

Department of Buildings & Grounds  
3470 Hwy 41 South Springfield TN.

## Robertson County Schools

Invitation to bid for Earthwork and Asphalt Paving per drawings provided:

Innovation Academy

715 5<sup>th</sup> Ave W.

Springfield, TN 37172

### **Purpose of Request for Bid**

The purpose of this bid is to solicit proposals from qualified vendors for construction of 4 asphalt parking areas and associated storm drainage. To include retention area, storm structures, asphalt paving, striping, and landscaping per drawings attached to this solicitation.

### **Nature of Proposal**

Each interested vendor shall be responsible for the review of information contained herein, other information which may be requested, site visitation as required, and other efforts as necessary for the submission of a comprehensive bid which will represent the vendor's best offer as a provider of Earthwork and Asphalt Paving for the Robertson County School System.

Each bid shall be complete, and it shall be outlined and identified by the sections of this request to facilitate evaluation and to prevent evaluators from the unnecessary searching and arranging of materials for evaluation purposes. In the preparation of each bid, attention should be given to the criteria referenced herein that will be used for award determination purposes.

### **Program Requirements**

#### **General**

The contractor shall furnish all supervision, labor, equipment, tools, and other materials required for work as stated below for the Robertson County School System

#### **Scope of Program**

##### **General**

Provide all labor, material, and equipment to install all elements of functional parking areas and associated earthwork per drawings provided by Klobber Engineering Services dated November 8, 2022.

Scope of Work Items include but are not limited to:

Demolition of items per plans (Robertson County will be responsible for removal of portable classrooms)

Surveying for control points and grading purposes

Installation of temporary roads/laydown areas

Installation of all temporary and permanent erosion controls and soil stabilization

Earthwork as required to bring site(s) to grade and provide for stormwater system installation.  
All stormwater structures and piping per drawings provided.  
All required stone material to provide subbase for asphalt section per drawings.  
All Asphalt paving material, labor, and equipment.  
All pavement markings as shown on drawings.  
Labor, material, and equipment for all concrete curbing and sidewalks as shown in the drawings.  
Labor, material, and equipment for all landscaping as shown per drawings.

Project is requested to be priced in two phases/work packages

**Phase 1:** To consist of the northern parking areas and associated stormwater retention area. Intent would be to provide the north parking area directly behind visitor side bleachers first. This lot would hopefully be brought to grade and gravel installed to provide a parking area for students prior to the Fall 2023 semester while work continues adjacent areas.

**Phase 2:** To consist of the single west area parking lot and southernmost parking lot closest to 5<sup>th</sup> Ave. These parking areas include tie in to the retention area for the west lot and underground storm chambers at the south lot.

### **Space**

To the extent possible, additional detailed information shall be furnished to the vendor upon request; however, through actual measurement, use of existing drawings and/or other means, it shall be the responsibility of the vendor to verify measurements as deemed applicable for the submission of a proposal.

### **Special Requirements for the Submission of a Bid**

#### **Bid Bond**

A bid bond executed by a security company authorized to do business in the state of Tennessee, in the amount of 5% of the total amount of the bid, must be submitted to the Robertson County finance department within (10) ten working days of the bid being accepted by the Robertson County School Board. The security bond must be made payable to the Robertson County School Board. Failure to comply will result in rejection of bid.

#### **Qualifications**

Each vendor shall submit evidence of qualifications which would influence the ability to satisfactorily perform the installation defined elsewhere in this document.

#### **Pre-Bid Conference and Tour of Facility**

There will be a pre-bid visit at Innovation Academy on June 22, 2023 at 10:00 AM. Innovation Academy is located at 715 5<sup>th</sup> Ave W Springfield, TN 37172. Supplemental visits to schools can be arranged if needed by contacting the Buildings and Grounds Department @ 615-384-0213. Bidders will be held responsible for information provided at this meeting whether in attendance or not. Attendance is strongly encouraged to ensure all aspects of the project are understood.

## **Format of Proposal**

Each bid shall be formatted identically to the outline of this request. The intent here is to facilitate evaluation by the committee members with a minimum of effort and delay. Therefore, each bid should include information/materials that are clearly marked and separately segregated as required for easy and quick location and identification of that section of this request to which it pertains.

## **Acceptance of Bid and Rejections**

The contract will be awarded to the qualified contractor whose offer conforms to the conditions and requirements of this bid and will be most advantageous to the Robertson County School System. The committee's evaluation of criteria, cost and other factors will be taken into consideration.

The Robertson County schools reserve the right to reject any or all offers and to waive informalities and minor irregularities in bids received.

This Request for bid does not commit the Robertson County School System to contract for services from this solicitation.

A written award or contract furnished to the successful contractor, within the time of acceptance specified in the offer, shall be deemed to result in a binding contract without further action by either party.

## **Firm Offer**

Each vendor must agree in advance in written form to submit a bid with cost figures which will be firm for at least thirty calendar days after the opening date of the bid.

## **Evaluation of Bids**

### **Evaluation**

Officials of the Robertson County schools will conduct an evaluation of bids submitted in response to this solicitation. In the process of evaluation, the vendor's total bid shall be considered.

During the process of evaluation, the officials may need additional information. This need will be communicated to the vendor, and each vendor shall be responsible for responding in written form or by appearing before the officials as requested.

## **Contract**

### **Award**

It is the full intent, assuming that satisfactory bids are received, to award a contract, within 7 days of project award.

### **Termination/Cancellation**

Robertson County Schools reserves the right to cancel the contract upon thirty days written notice for reasons of nonperformance within the terms and conditions of this request for bid or conditions beyond our control such as inadequate funding.

### **Payments**

Payment for services received will be made upon receipt of invoice and inspection by county personnel of proper operation and performance of the units

### **Insurance**

The contractor shall provide at all times during the contract period the following insurance coverage:

Workman's Compensation - Statutory Limits

Comprehensive general liability for bodily injury in the sum of \$1,000,000 each person and \$1,000,000 each occurrence and \$1,000,000 property damage, including personal injury.

Automobile liability insurance with basic limits \$1,000,000 each occurrence and \$500,000 property damage, including personal injury.

Umbrella liability limits net loss limits of liability \$1,000,000 each occurrence and \$1,000,000 each aggregate.

The bidder shall furnish the Robertson County School System certificates of insurance within 21 working days after acceptance of a contract.

Robertson County school system must have ten (10) days' notice of cancellation or change in insurance coverage and give its approval.

### **Addenda**

Any 'Addenda' or instructions to bidders issued by the county school system prior to the time for receiving bids shall be covered in the proposal and in closing a contract they shall become a part thereof.

## **Responsibilities of Contractor**

### **Personnel**

All matters pertaining to the recruitment, screening, hiring, and retention shall be the exclusive responsibility of the contractor. These matters shall be done fully in compliance with existing statutes and regulations pertaining to affirmative action, no discrimination, wage and hour and any other stipulation germane to prudent personnel management. The contractor shall comply with all State of Tennessee laws, regulations, and requirements regarding people working with or in the proximity of minor children, including, but not limited to background checks with law enforcement authorities and fingerprinting.

All personnel shall be dressed in a manner authorized by the contractor. The personnel shall be neat and clean in appearance. Uniforms and badges with picture identification shall be worn which fully identify the worker as a member of the contractor's work force.

Employees with police records will be cleared through the Robertson County schools Board of Education's personal director before being assigned duties under this contract. (Contractor shall be responsible for the submission of police clearance record within 24 hours upon request.)

The contractor shall not pay less than the minimum wage rate. Contractor shall pay all taxes pertaining to his employees as required by law. All employees shall be bonded in the amount of \$50,000 (3<sup>rd</sup> Party Fidelity Bond).

Any employee whose work habits and/or conduct are deemed objectionable shall be removed from the work force upon request of the authorized Robertson County schools representative.

### **Safety**

The contractor shall be responsible for the training as necessary in the application of chemicals and the use of equipment to facilitate safe conditions for the employees and the Robertson County School System's students and staff.

### **Security**

The contractor shall be responsible for training employees in the security requirements of the Robertson County School System and shall be responsible for the enforcement of the same. The Robertson County School System requires the contractor provide a list of all personnel hired by name, social security number, date of birth, sex, race and address. The contractor shall have at the contractor's expense a background check of all employees through the T.B.I. and F.B.I., and, if the employee is not a citizen, provide documentation of the employee's legal status to work prior to employment. Additionally, each employee shall be informed of the following:

The Contractor shall be responsible for safeguarding against loss, theft or damage to all Robertson County school's property, materials, equipment and accessories that might be exposed to the contractor's personnel.

Guns, knives or other dangerous weapons shall not be allowed on campus.

Alcohol and drugs are prohibited on the campus.

Keys, which may be distributed at the beginning of each work period, shall be returned to the building supervisor at the end of each work period. Keys that will be required by the contractor and employees will be approved by the administration of the Robertson County schools and will be controlled by the person to be named after award of contract. In any event the contractor shall be fully responsible for the security and appropriate use of the keys which may be issued. Additionally, the contractor shall be fully responsible for the replacement of any keys that are lost and the changing of locks when deemed necessary by Robertson County Schools.

### **Supervision**

All supervision as required for the execution of those contractual responsibilities assumed by the contractor shall be done by the contractor or his/her designated representative.

### **Damage**

The contractor shall be responsible for the repair/replacement to the satisfaction of the Robertson County School's representative for any damage to the facility caused by any employee of the contractor. The contractor will be responsible for any fines assessed the school system for fire alarm activation due to employee error or the use of equipment producing emissions, etc.

### **Equipment and Supplies/Materials**

The procurement and maintenance of all equipment required for the successful execution of this contractual obligation shall be the contractor's responsibility. The contractor will provide Robertson County schools with a list of equipment and supplies available to each school.

The list of equipment will be provided to the school system with the bid and be evaluated before the contract is awarded.

The Robertson County School System will provide locked storage spaces, but it shall not be responsible for losses that may be incurred due to theft and/or vandalism. All equipment shall be maintained properly and kept in clean condition by the contractor. All materials will be stored to meet local codes. Machines requiring battery charging will be done in proper areas.

A listing of all chemicals and equipment that will be used by the contractor must be submitted for approval prior to initial service under the contract. Changes may be made only after duly authorized.

All chemicals and equipment must meet or exceed OSHA requirements and commonly recognized safety requirements. Material safety data sheets will be maintained on each job site for all chemicals used in the cleaning processes.



The Contractor must furnish all needed safety equipment and protective devices necessary for the safety of all building occupants and property of the Robertson County School System.

**Emergencies**

All emergency conditions shall be promptly reported to the county school system's authorized representative.

**Contractor's Representative**

A representative of the contractor shall be appointed within 24 hours after receipt of contract.

**Responsibilities of Robertson County Schools**

**Storage**

Contractor is responsible for all safe storage of equipment and materials. If items need to stay on site for multiple days, an area will be provided by the county. Contractor is responsible for locking and/or securing all equipment

**Trash Disposal**

Contractor is responsible for providing an onsite dumpster for construction use. Dumpster shall not impede any driveways or current parking areas used by the school

**Facility Keys**

The Robertson County School System will furnish keys that may be required by the contractor. The keys are not to be duplicated.

**Robertson County school's representative**

After the award of the contract the Robertson County schools' representative will be named. This representative shall be available, within reason, any time for consultation and liaison purposes, and communications from the contractor shall be handled through this person.

SITE PLAN FOR

# ROBERTSON COUNTY INNOVATION ACADEMY

715 5TH AVENUE WEST  
SPRINGFIELD, TN  
ROBERTSON COUNTY

### SHEET INDEX

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C1.03	—————	NORTH LOT GRADING PLAN
C1.04	—————	NORTH LOT DRAINAGE PLAN
C1.05	—————	NORTH LOT STABILIZATION PLAN
C1.06	—————	NORTH LOT LANDSCAPING PLAN
C1.07	—————	SOUTH LOT DEMO, INITIAL EPSC, & SITE LAYOUT
C1.08	—————	SOUTH LOT GRADING, DRAINAGE, & FINAL STABILIZATION PLAN
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C2.02	—————	CONSTRUCTION DETAILS
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C2.04	—————	ADS CHAMBER DETAILS



Vicinity Map  
Not to Scale



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JOSHUA M. LYON, P.E. TN#112231



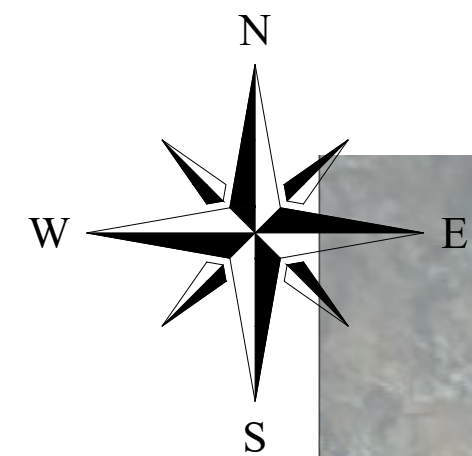
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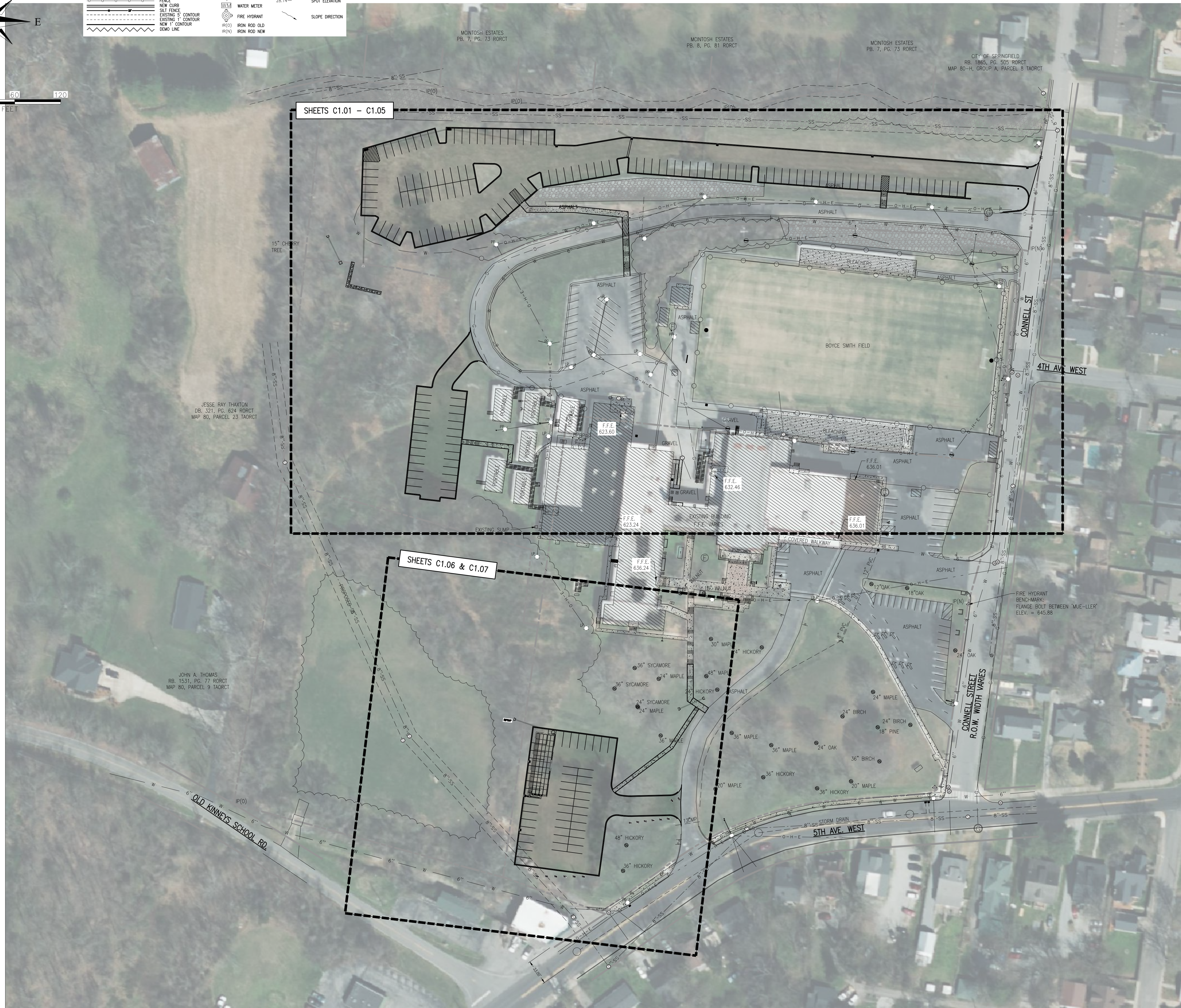
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SCALE IN FEET

LEGEND:

- PROPERTY LINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- OVERHEAD ELECTRIC LINE
- FENCE
- NEW CURB
- SILT FENCE
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- NEW 1' CONTOUR
- DEMO LINE
- MANHOLE
- C/O CLEAN OUT
- PP/P POWER POLE
- WATER METER
- FIRE HYDRANT
- IRON ROD OLD
- IRON ROD NEW
- PIPE INVERT
- PIPE INVERT
- SPOT ELEVATION
- SLOPE DIRECTION



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NO.	BY	DATE	DESCRIPTION



JOSHUA M. LYON, P.E. TN#112331

CONSTRUCTION DOCUMENTS

**ROBERTSON COUNTY  
INNOVATION ACADEMY**

715 5TH AVENUE WEST  
SPRINGFIELD, TN  
ROBERTSON COUNTY

DRAWN BY: CJN  
CHECKED BY: JML  
PROJECT NO.: C02921

OVERALL SITE LAYOUT  
SHEET NUMBER  
**C1.00**

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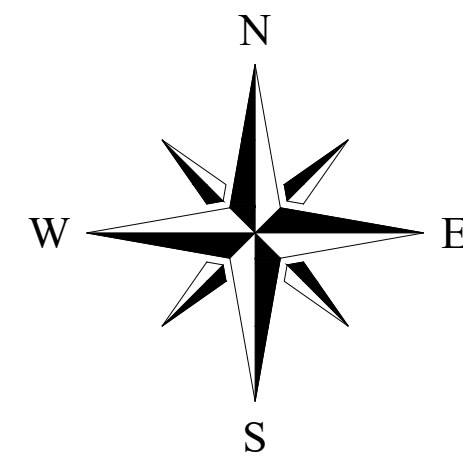
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LEGEND:

- PROPERTY LINE
- EXISTING WATER LINE
- EXISTING SANITARY LINE
- OVERHEAD ELECTRIC LINE
- FENCE
- NEW CURB
- SILT FENCE
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- NEW 1' CONTOUR
- DEMO LINE
- MANHOLE
- CLEAN OUT
- POWER POLE
- WATER METER
- FIRE HYDRANT
- IRON ROD OLD
- IRON ROD NEW
- PIPE INVERT
- INV. = 23.42
- 23.14
- SPOT ELEVATION
- SLOPE DIRECTION

INITIAL EROSION CONTROL SHALL BE ADJUSTED DURING GRADING OF THE SITE TO CONFORM TO CHANGING CONTOURS. CONTRACTOR SHALL ADJUST SILT FENCE AND CHECK DAMS TO MATCH PROPOSED CONTOURS AFTER GRADING IS COMPLETE. SEE SHEET C1.03.



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NO.	BY	DATE	DESCRIPTION



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CONSTRUCTION DOCUMENTS

**ROBERTSON COUNTY  
INNOVATION ACADEMY**

715 5TH AVENUE WEST  
SPRINGFIELD, TN  
ROBERTSON COUNTY

DRAWN BY: CJN  
CHECKED BY: JML  
PROJECT NO.: C02921

**NORTH LOT  
DEMO & INITIAL  
EPSC**

SHEET NUMBER  
**C1.01**

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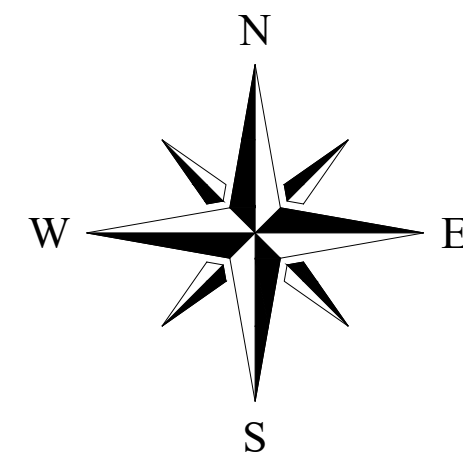
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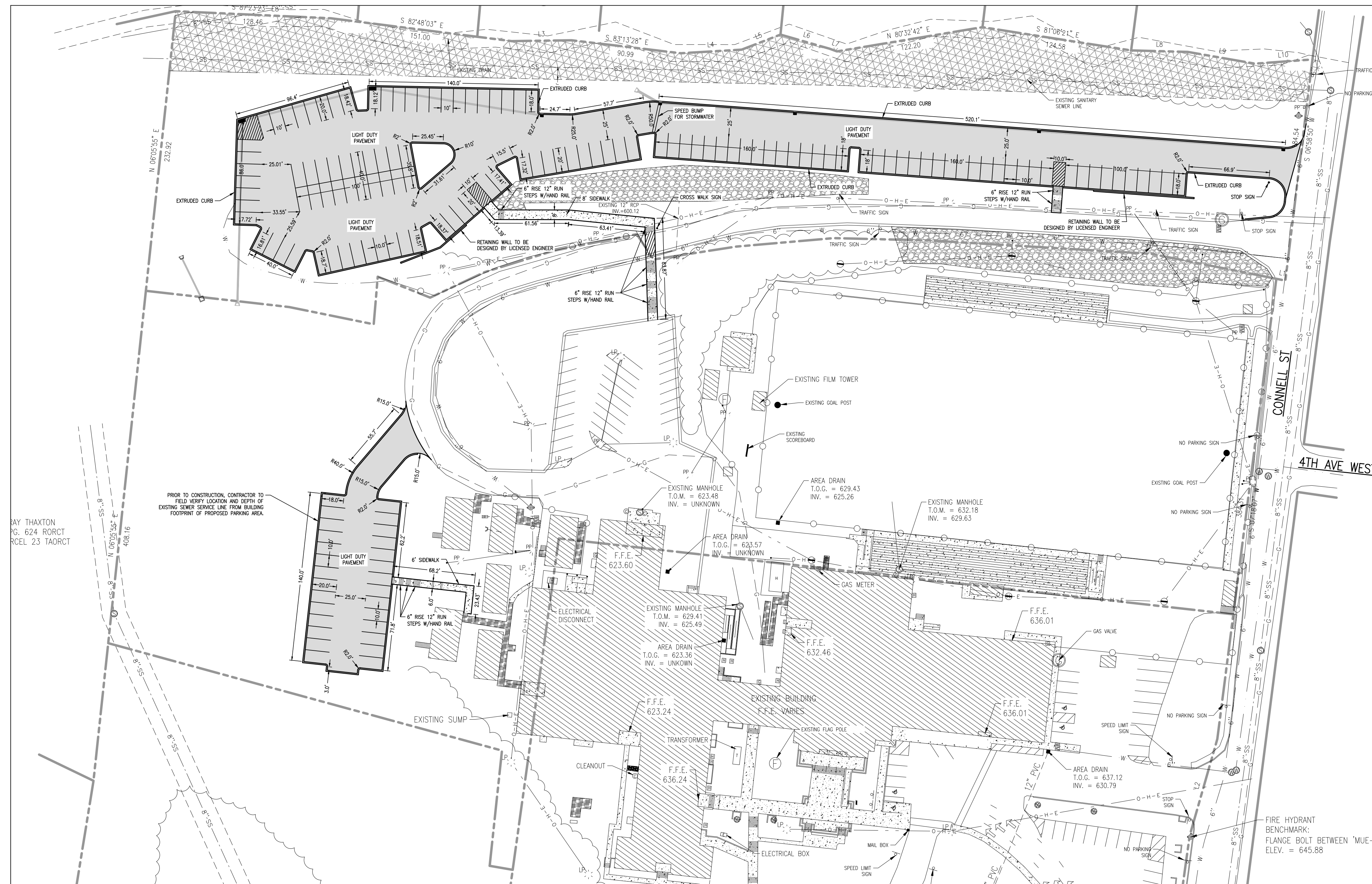
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SCALE IN FEET

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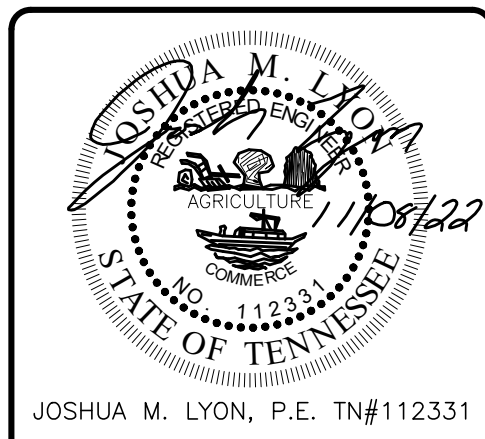
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- SILT FENCE
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- EXISTING 1' CONTOUR
- NEW 1' CONTOUR
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715 5TH AVENUE WEST  
 SPRINGFIELD, TN  
 ROBERTSON COUNTY

DRAWN BY: CJN  
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NORTH LOT SITE LAYOUT

SHEET NUMBER  
**C1.02**

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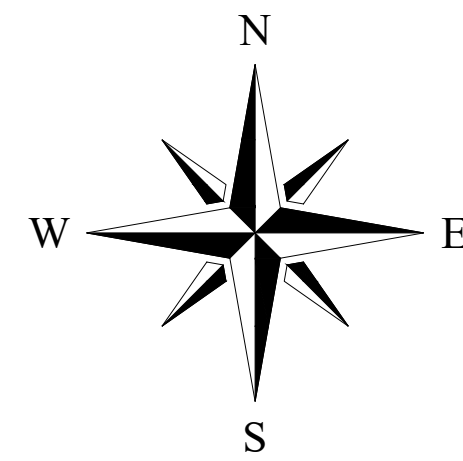
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SCALE IN FEET

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- 23.14
- PIPE INVERT
- SPOT ELEVATION
- SLOPE DIRECTION

**STABILIZATION LEGEND:**

- ▨ SOD
- ▨ MATTING
- ▨ SEED & STRAW
- ▨ RIP RAP
- ▨ MULCH



RAY THAXTON  
PG. 624 (ROCT)  
RCEL 23-1A(ROCT)

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715 5TH AVENUE WEST  
SPRINGFIELD, TN  
ROBERTSON COUNTY

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**NORTH LOT GRADING PLAN**

SHEET NUMBER  
**C1.03**

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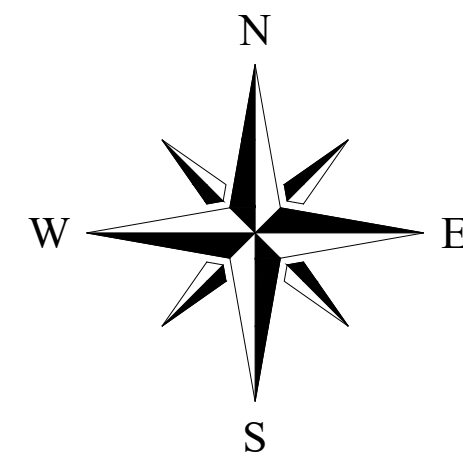
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DRAIN PIPE DATA																
DESIGN INFO.								AS-BUILT								
PIPE NUMBER	FROM STRUCTURE	INVERT	TO STRUCTURE	INVERT	PIPE LENGTH (FEET)	PIPE DIAMETER (INCHES)	PIPE MATERIAL	SLOPE (%)	Q <sub>c</sub> (CFS)	25 YR Q <sub>c</sub> (CFS)	VELOCITY (FPS)	FROM STRUCTURE	TO STRUCTURE	PIPE LENGTH (FEET)	SLOPE (%)	Q <sub>c</sub> (CFS)
1	A-9	607.35	A-8	599.55	200	15	HDPE	3.90%	15.28	0.17	12.45					
2	A-8	599.30	A-7	590.95	200	15	HDPE	4.17%	15.81	4.52	12.89					
3	A-7	590.95	A-6	586.30	109	15	HDPE	4.27%	15.99	11.15	13.03					
4	A-6	585.80	A-5	585.30	20	24	HDPE	2.50%	42.86	37.90	13.64					
5	A-4	581.65	A-3	576.30	137	15	HDPE	3.91%	15.29	0.91	12.46					
6	A-3	576.05	A-2	574.35	106	18	HDPE	1.60%	15.94	4.11	9.02					
7	A-2	574.35	A-1	571.80	150	18	HDPE	1.70%	16.41	7.47	9.29					

ALL INFRASTRUCTURE TO BE PRIVATE

DRAINAGE STRUCTURE DATA								
DESIGN INFORMATION							AS-BUILT	
STRUCTURE NUMBER	STRUCTURE TYPE	SIZE	GRATE	*RIM ELEV.	INVERT	PIPE COVERAGE (IN.)	RIM ELEV.	INVERT
A-9	SINGLE CURB INLET	28" x 28"	3103-V	613.35	607.35	54.75		
A-8	SINGLE CURB INLET	28" x 28"	3103-V	603.05	599.30	27.75		
A-7	SINGLE CURB INLET	28" x 28"	3103-V	594.45	590.95	24.75		
A-6	SINGLE CURB INLET	28" x 28"	3103-V	589.70	585.80	20.05		
A-5	HEADWALL W/ ENERGY DISSIPATORS	6'	-	-	585.30	-		
A-4	SINGLE CURB INLET	28" x 28"	3103-V	584.65	581.65	18.75		
A-3	DOUBLE DROP INLET	28" x 63.5"	4310	579.80	576.05	24.50		
A-2	DOUBLE DROP INLET	28" x 63.5"	4310	578.60	574.35	30.50		
A-1	HEADWALL W/ ENERGY DISSIPATORS	6'	-	-	571.80	-		

ALL INFRASTRUCTURE TO BE PRIVATE

\*RIM ELEV. @ BOTTOM OF CURB

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 WWW.KLOBERENGINEERING.COM

NO.	BY	DATE	DESCRIPTION



JOSHUA M. LYON, P.E. TN#112331

CONSTRUCTION DOCUMENTS

**ROBERTSON COUNTY INNOVATION ACADEMY**

715 5TH AVENUE WEST  
 SPRINGFIELD, TN  
 ROBERTSON COUNTY

DRAWN BY: C/JN  
 CHECKED BY: JML  
 PROJECT NO.: C02921

NORTH LOT DRAINAGE PLAN

SHEET NUMBER  
**C1.04**

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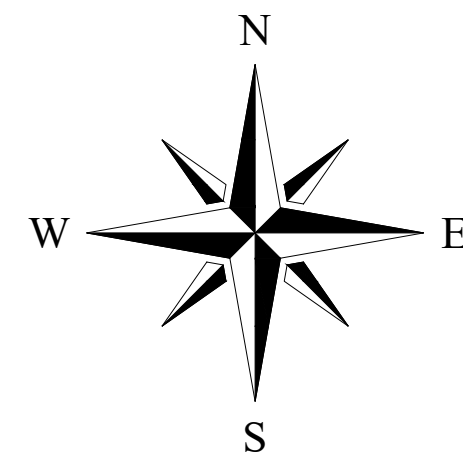
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**LEGEND:**

- PROPERTY LINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- OVERHEAD ELECTRIC LINE
- FENCE
- NEW CURB
- SILT FENCE
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- NEW 1' CONTOUR
- DEMO LINE
- MANHOLE
- CLEAN OUT
- POWER POLE
- WATER METER
- FIRE HYDRANT
- IRON ROD OLD
- IRON ROD NEW
- PIPE INVERT
- SPOT ELEVATION
- SLOPE DIRECTION

**STABILIZATION LEGEND:**

- SOD
- MATTING
- SEED & STRAW
- RIP RAP
- MULCH



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**ROBERTSON COUNTY INNOVATION ACADEMY**

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 SPRINGFIELD, TN  
 ROBERTSON COUNTY

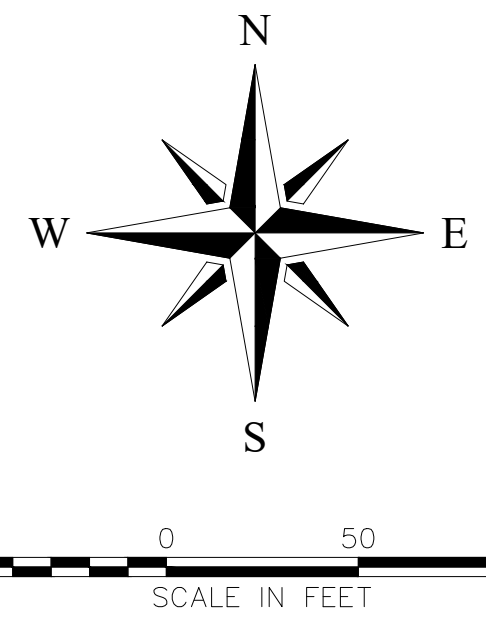
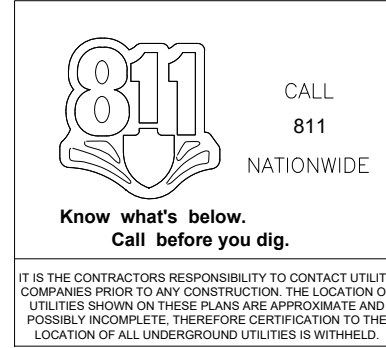
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 PROJECT NO.: C02921

**NORTH LOT STABILIZATION PLAN**

SHEET NUMBER  
**C1.05**

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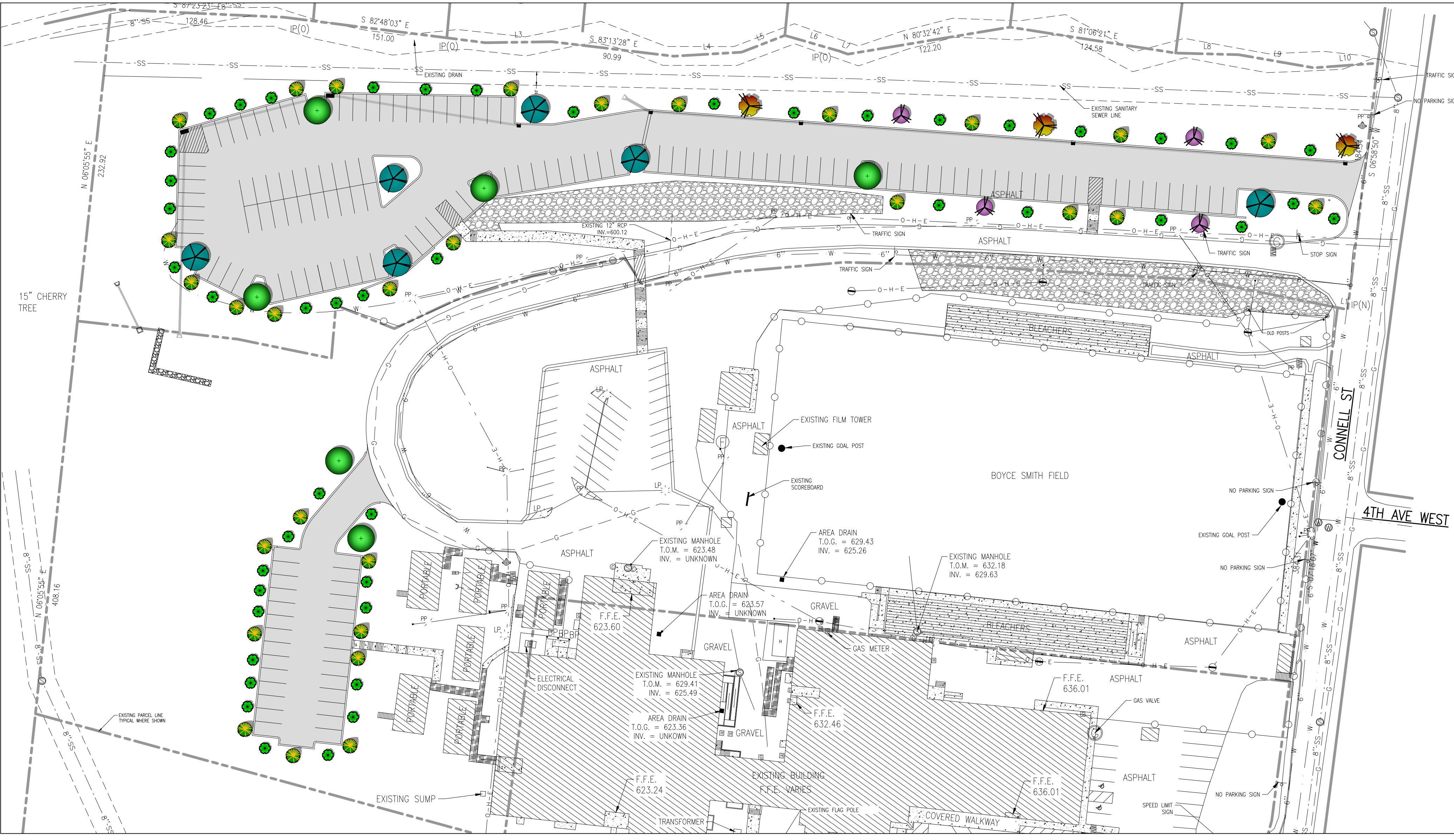


**LEGEND:**

	PROPERTY LINE		MANHOLE		PIPE INVERT
	EXISTING WATER LINE		CLEAN OUT		SPOT ELEVATION
	EXISTING SEWER LINE		POWER POLE		SLOPE DIRECTION
	OVERHEAD ELECTRIC LINE		WATER METER		
	NEW CURB		FIRE HYDRANT		
	SET FENCE		IRON ROD OLD		
	EXISTING 5' CONTOUR		IRON ROD NEW		
	EXISTING 1' CONTOUR				
	NEW 1' CONTOUR				
	DEMO LINE				

**LANDSCAPE NOTES:**

- WHEN APPLICABLE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING TREES TO REMAIN. NO HEAVY EQUIPMENT SHOULD BE PERMITTED TO OPERATE OR BE STORED, NOR ANY MATERIALS TO BE HANDLED OR STORED, WITHIN THE DRIPLINES OF TREES OUTSIDE THE LIMIT OF GRADING.
- THE QUANTITIES INDICATED ON THE PLANT LIST AND PLAN ARE PROVIDED FOR THE BENEFIT OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY CALCULATIONS AND THE LIABILITY WHICH PERTAINS TO THOSE QUANTITIES AND TO ANY RELATED CONTRACT DOCUMENTS AND/OR PRICE QUOTATIONS. QUESTIONS SHOULD BE DIRECTED TO THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIALS SHALL BE NURSERY GROWN, GRADE "A" QUALITY, UNLESS OTHERWISE NOTED AND SHALL COMPLY WITH THE AMERICAN STANDARD FOR NURSERY STOCK: ANSI Z-60.1; LATEST EDITION, FOR SIZE AND QUALITY.
- SEE SPRINGFIELD LANDSCAPING ORDINANCE FOR ACCEPTABLE TREE/SHRUB SUBSTITUTIONS.
- THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES AND TO PROTECT UTILITIES THAT ARE TO REMAIN. THE CONTRACTOR SHALL REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
- ALL AREAS DISTURBED BY UTILITY TRENCHING, SITE AND BUILDING CONSTRUCTION SHALL BE STABILIZED WITH SEEDING AND SODDING AS SHOWN BY THE PLAN.
- SOIL USED FOR PLANTING SHALL CONSIST OF (5) PARTS TOPSOIL, (1) PART SAND AND (2) PARTS ORGANIC MATTER, MIXED WITH 1 POUND OF FERTILIZER PER CUBIC YARD.
  - A. SAND SHALL BE CLEAN MASONRY SAND.
  - B. ORGANIC MATTER SHALL BE PEAT MOSS, OR WELL COMPOSTED PINE BARK, OR APPROVED EQUAL AND SHALL BE FINELY GROUND AND FREE OF WEEDS.
  - C. ALL FERTILIZER SHALL BE 10-10-10 WITH MINOR ELEMENTS. FERTILIZER SHALL HAVE 40-50% OF ITS TOTAL NITROGEN IN A WATER INSOLUBLE FORM.
- PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANT BEDS AND SOD AREAS PRIOR TO INSTALLATION. TRIFLURAN OR AN APPROVED EQUAL SHALL BE USED.
- ALL PLANT BEDS SHALL HAVE A MINIMUM OF 3" DEEP MULCH. MULCH SHALL BE SHREDDED HARDWOOD.
- IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO CONFIRM MATERIAL QUANTITIES. IN THE EVENT OF A DISCREPANCY, THE QUANTITIES SHOWN ON THE PLAN SHALL TAKE PRECEDENCE OVER QUANTITIES SHOWN ON THE PLANT LIST.
- PRIOR TO FINAL PAYMENT, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER WITH COMPLETE WRITTEN INSTRUCTIONS ON PROPER CARE OF ALL SPECIFIED PLANT MATERIALS.
- THE LANDSCAPE INSTALLATION SHALL BE COORDINATED WITH THE IRRIGATION INSTALLATION WHEN APPLICABLE.
- THE LANDSCAPE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM STRUCTURES AND TAKE SPECIAL CARE TO INSURE THAT BED PREPARATION DOES NOT INHIBIT DRAINAGE.
- ALL LAWN AREAS SHALL BE CULTIVATED TO A DEPTH OF 4" PRIOR TO SODDING AND SEEDING. PREPARED TURF BEDS SHALL BE FREE FROM STONES OVER 2" DIAMETER, WEEDS AND OTHER DELETERIOUS MATERIAL.
- THE LANDSCAPE CONTRACTOR SHALL RAKE SMOOTH ALL SEED OR SOD AREAS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILLING BEHIND THE CURB SO GRADE IS LEVEL WITH TOP OF CURB.
- SODDED AREAS SHALL HAVE NO BARE AREAS. SEEDING AREAS SHALL BE CONSIDERED ACCEPTABLE WHEN FULL COVERAGE OF THE PERMANENT TURF GRASS SPECIES IS ESTABLISHED.
- CUT AWAY ROPES OR WIRES FROM B&B PLANTS. PULL BACK BURLAP FROM TOP OF ROOT BALL. DO NOT ALLOW BURLAP TO BE EXPOSED AT SURFACE. TOTALLY REMOVE BURLAP IF IT IS SYNTHETIC.
- IF CONTAINER GROWN PLANTS SHOW SIGNS OF BEING ROOT BOUND, SCORE ROOTS VERTICALLY.
- ALL PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- ALL REPLACEMENTS SHALL BE OF THE SAME TYPE, SIZE, AND QUALITY AS SPECIFIED ON THE PLANT LIST, UNLESS APPROVED OTHERWISE IN WRITING BY THE LANDSCAPE ARCHITECT.
- ANY MATERIAL THAT IS DEEMED TO BE 25% DEAD OR MORE SHALL BE CONSIDERED DEAD, AND MUST BE REPLACED AT NO CHARGE. A TREE IS CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED BACK, OR MORE THAN 25% OF THE CROWN IS DEAD.
- REPLACEMENTS SHALL BE MADE DURING THE NEXT PLANTING SEASON UNLESS THE LANDSCAPE CONTRACTOR AGREES TO AN EARLIER DATE.
  - PLANTING DATES
  - SPRING: MARCH 15 - APRIL 15
  - FALL: OCTOBER 1 - NOVEMBER 30
- THE LANDSCAPE CONTRACTOR WILL NOT BE RESPONSIBLE FOR PLANT MATERIAL THAT HAS BEEN DAMAGED BY VANDALISM, FIRE, RELOCATION, WILDLIFE, THEFT, OR OTHER ACTIVITIES BEYOND THE LANDSCAPE CONTRACTOR'S CONTROL.
- YARD HYDRANTS AND HOSE BIBS WILL BE THE PRIMARY SOURCE OF WATER FOR NEW LANDSCAPING.

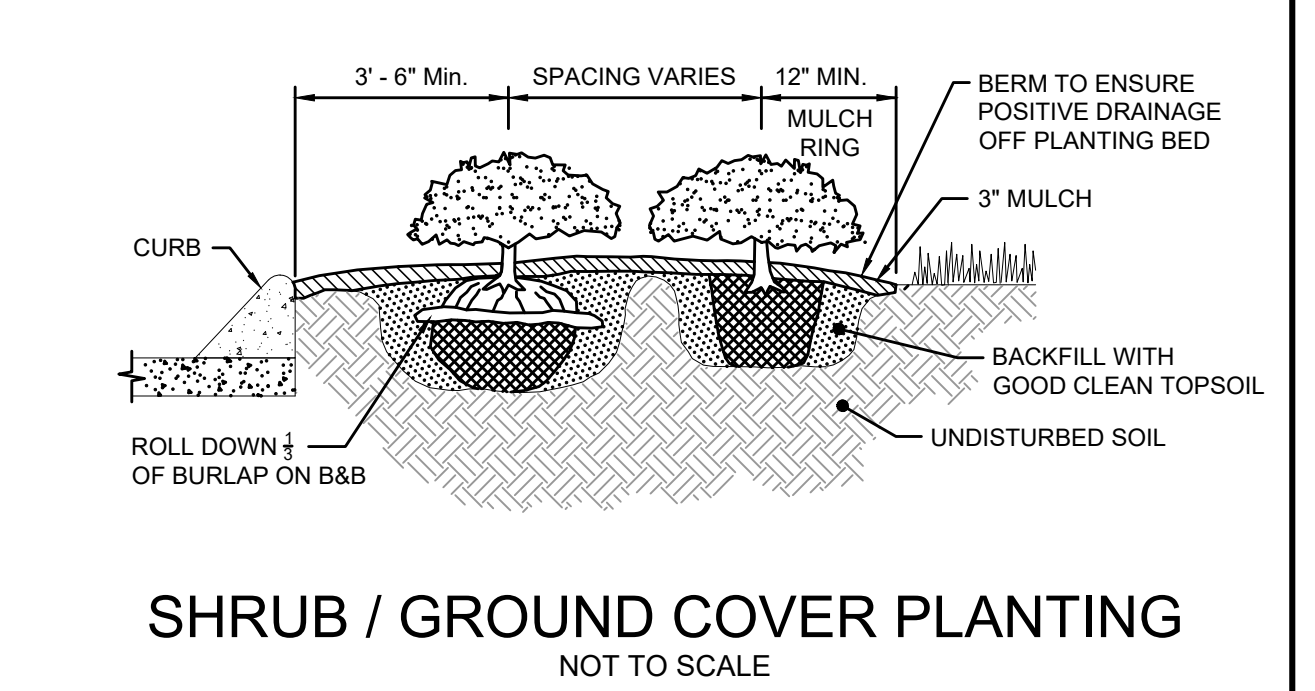
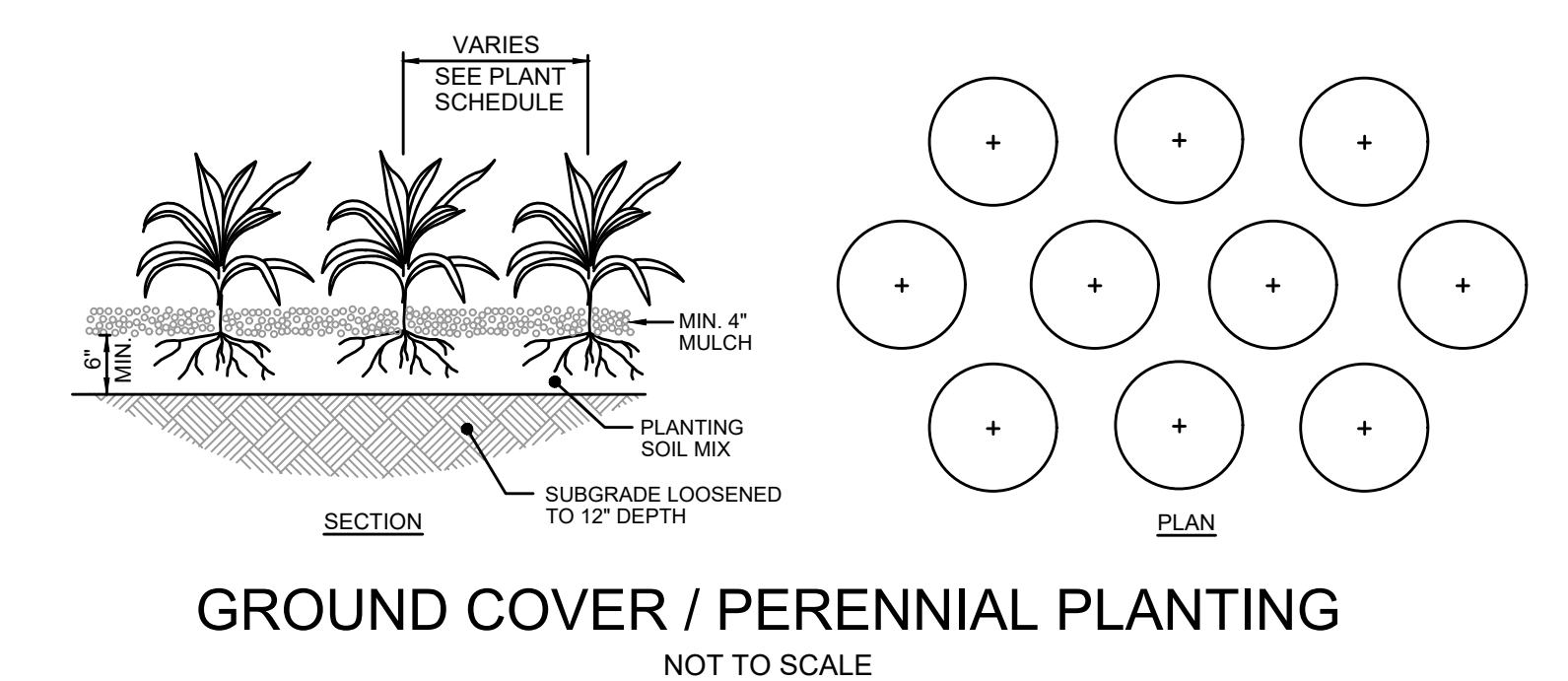
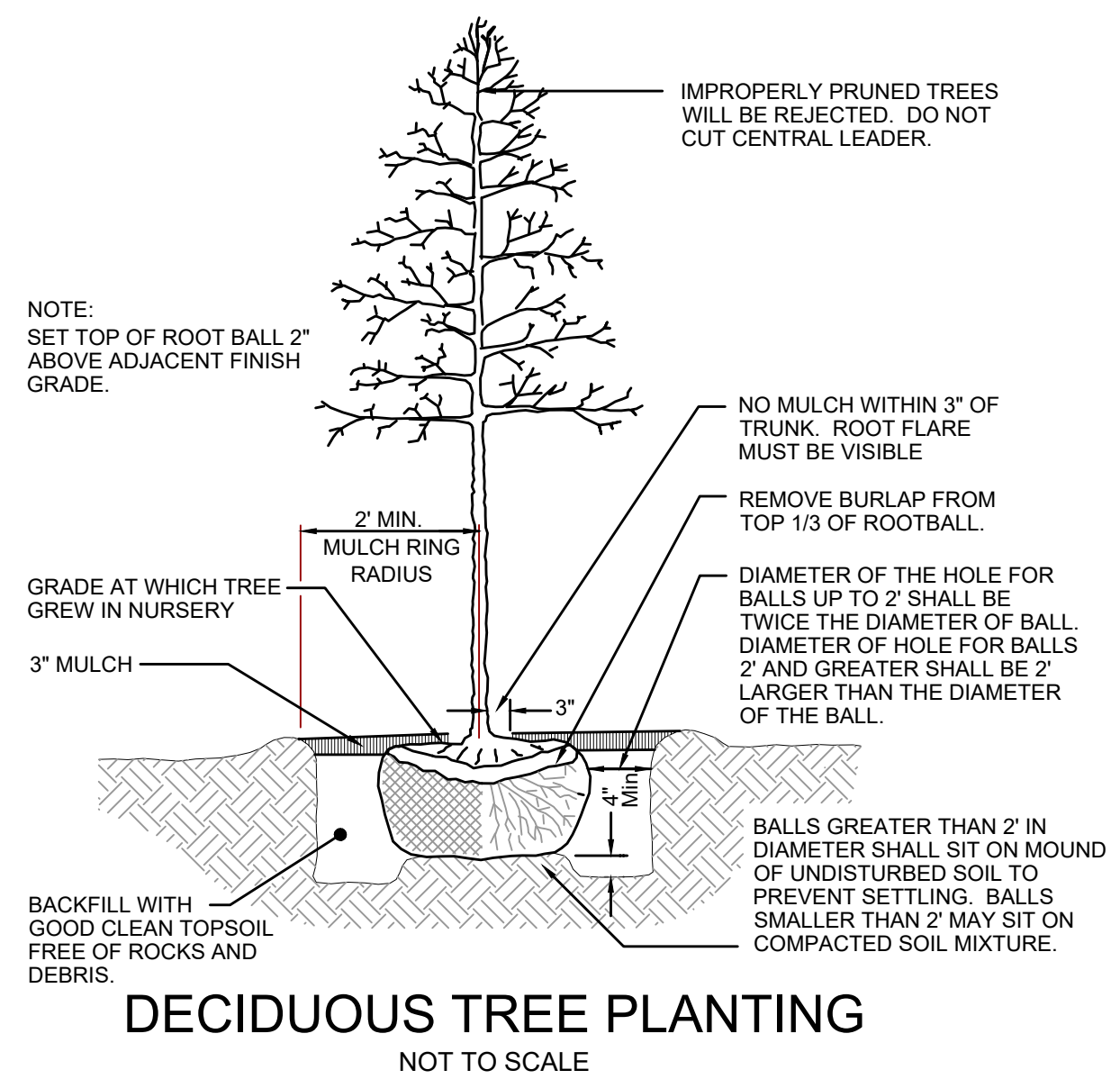


**TREE/SHRUB LEGEND**

CANOPY TREES	
	ENGLISH OAK
	AMERICAN SYCAMORE
UNDERSTORY TREES	
	CHEROKEE CHIEF DOGWOOD
	YOSHINO CHERRY
SHRUBS	
	NELLIE R STEVENS HOLLY
	GREEN GIANT ARBORVITAE

**PLANT SCHEDULE**

QTY.	COMMON NAME	HEIGHT	TRUNK
<b>CANOPY TREES</b>			
6	ENGLISH OAK	10' - 12'	2" Cal.
6	AMERICAN SYCAMORE	10' - 12'	2" Cal.
12	TOTAL - CANOPY TREES		
<b>UNDERSTORY TREES</b>			
3	CHEROKEE CHIEF DOGWOOD	7' Min.	2" Cal.
4	YOSHINO CHERRY	7' Min.	2" Cal.
19	TOTAL - ALL TREES		
<b>SHRUBS</b>			
46	NELLIE R STEVENS HOLLY	18" Min.	3 Gal.
29	GREEN GIANT ARBORVITAE	18" Min.	3 Gal.
75	TOTAL - SHRUBS		



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REVISIONS

NO.	BY	DATE	DESCRIPTION

**CONSTRUCTION DOCUMENTS**

**ROBERTSON COUNTY INNOVATION ACADEMY**

715 5TH AVENUE WEST  
 SPRINGFIELD, TN  
 ROBERTSON COUNTY

DRAWN BY: CJN  
 CHECKED BY: JML  
 PROJECT NO.: C02921

**NORTH LOT LANDSCAPING PLAN**

SHEET NUMBER  
**C1.06**

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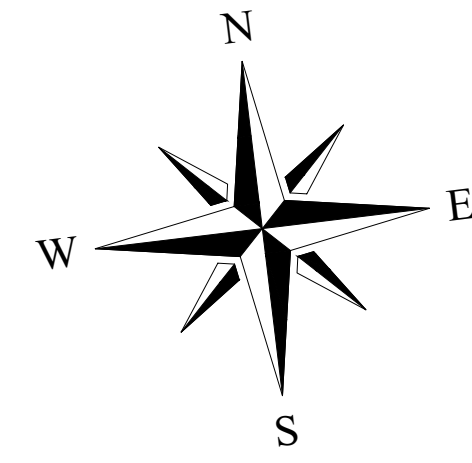
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SCALE IN FEET

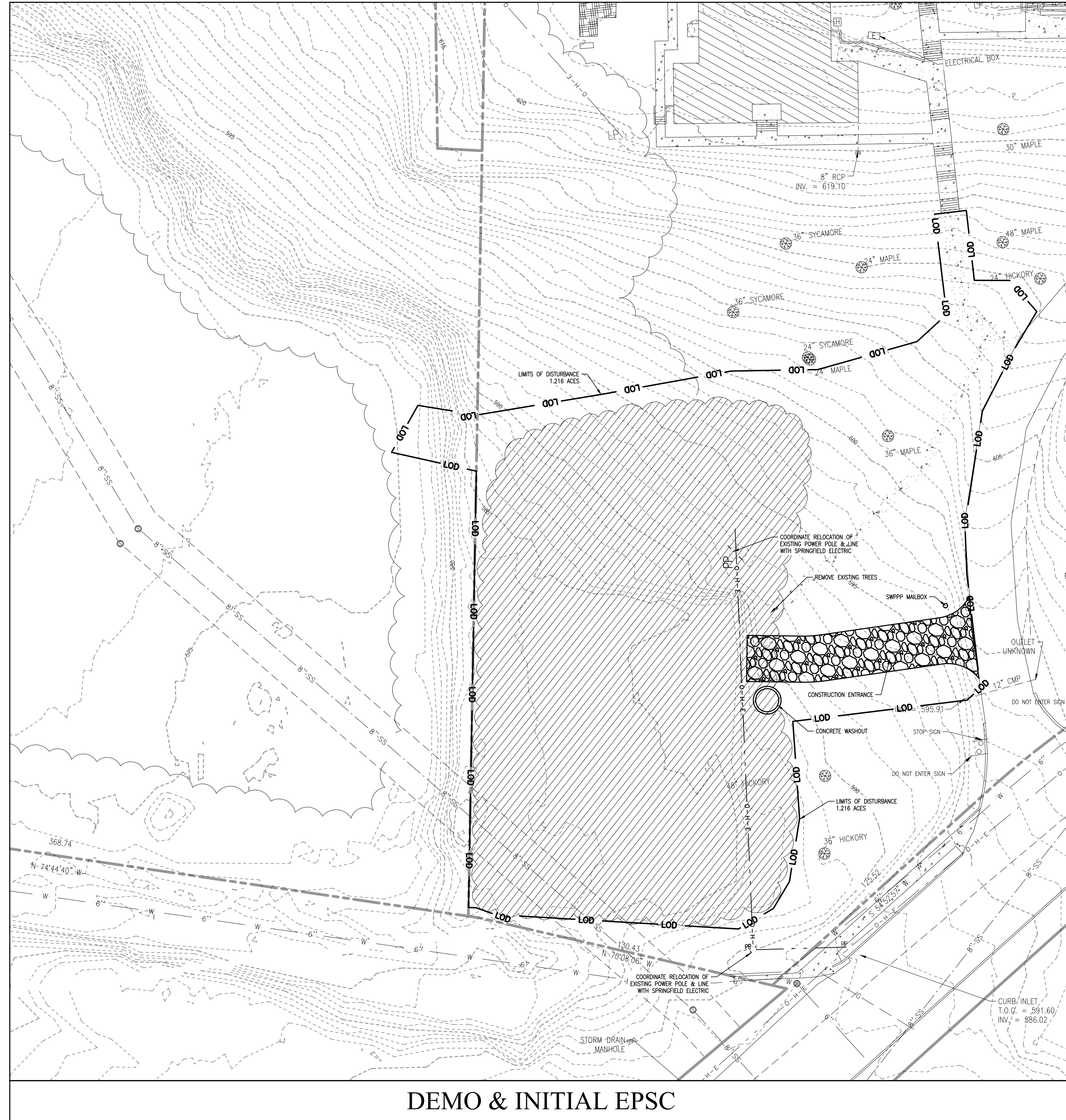
LEGEND:

- PROPERTY LINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- OVERHEAD ELECTRIC LINE
- FENCE
- NEW CURB
- SILT FENCE
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- NEW 1' CONTOUR
- DEMO LINE
- MANHOLE
- C/O CLEAN OUT
- PP POWER POLE
- WATER METER
- FIRE HYDRANT
- IR(O) IRON ROD OLD
- IR(N) IRON ROD NEW
- PIPE INVERT
- SPOT ELEVATION
- SLOPE DIRECTION

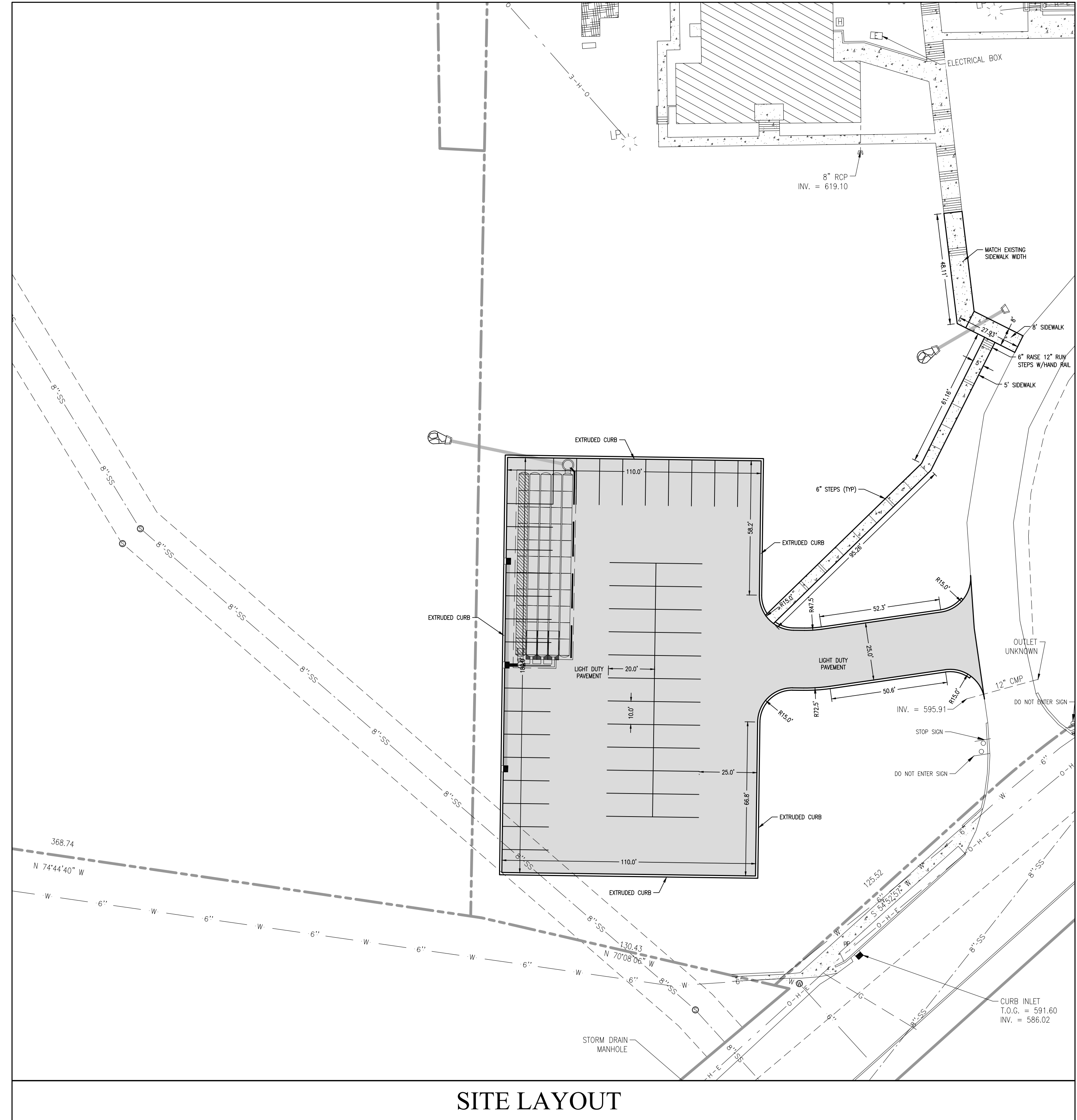
STABILIZATION LEGEND:

- SOD
- MATTING
- SEED & STRAW
- RIP RAP
- MULCH

INITIAL EROSION CONTROL SHALL BE ADJUSTED DURING GRADING OF THE SITE TO CONFORM TO CHANGING CONTOURS. CONTRACTOR SHALL ADJUST SILT FENCE AND CHECK DAMS TO MATCH PROPOSED CONTOURS AFTER GRADING IS COMPLETE. SEE SHEET C1.07.



DEMO & INITIAL EPSC

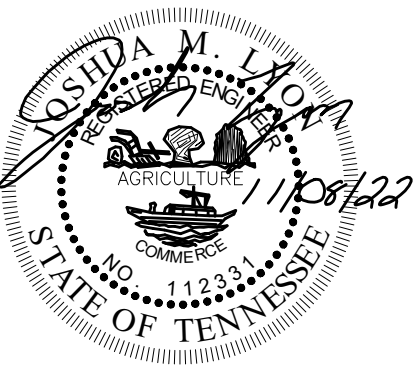


SITE LAYOUT

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NO.	BY	DATE	DESCRIPTION



JOSHUA M. LYON, P.E. TN#112331

CONSTRUCTION DOCUMENTS

ROBERTSON COUNTY INNOVATION ACADEMY

715 5TH AVENUE WEST SPRINGFIELD, TN ROBERTSON COUNTY

DRAWN BY: CJN CHECKED BY: JML PROJECT NO.: C02921

SOUTH LOT DEMO, INITIAL EPSC, & SITE LAYOUT

SHEET NUMBER C1.07

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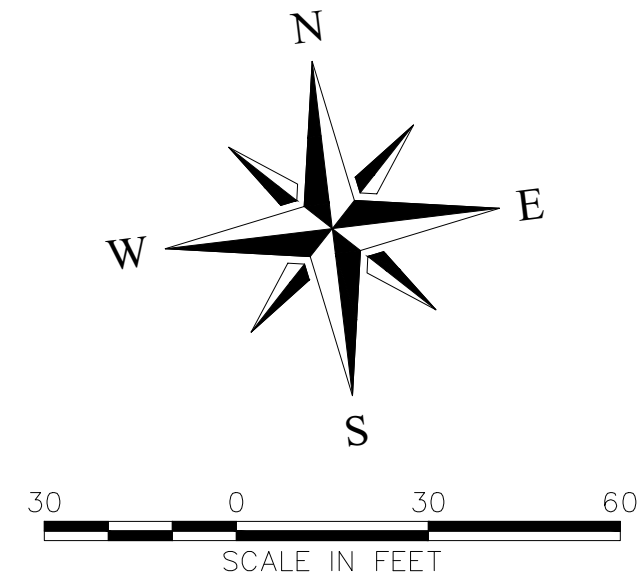
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LEGEND:

- PROPERTY LINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- OVERHEAD ELECTRIC LINE
- FENCE
- NEW CURB
- SET FENCE
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- NEW 1' CONTOUR
- DEMO LINE
- MANHOLE
- CLEAN OUT
- POWER POLE
- WATER METER
- FIRE HYDRANT
- IRON ROD OLD
- IRON ROD NEW
- PIPE INVERT
- SPOT ELEVATION
- SLOPE DIRECTION

STABILIZATION LEGEND:

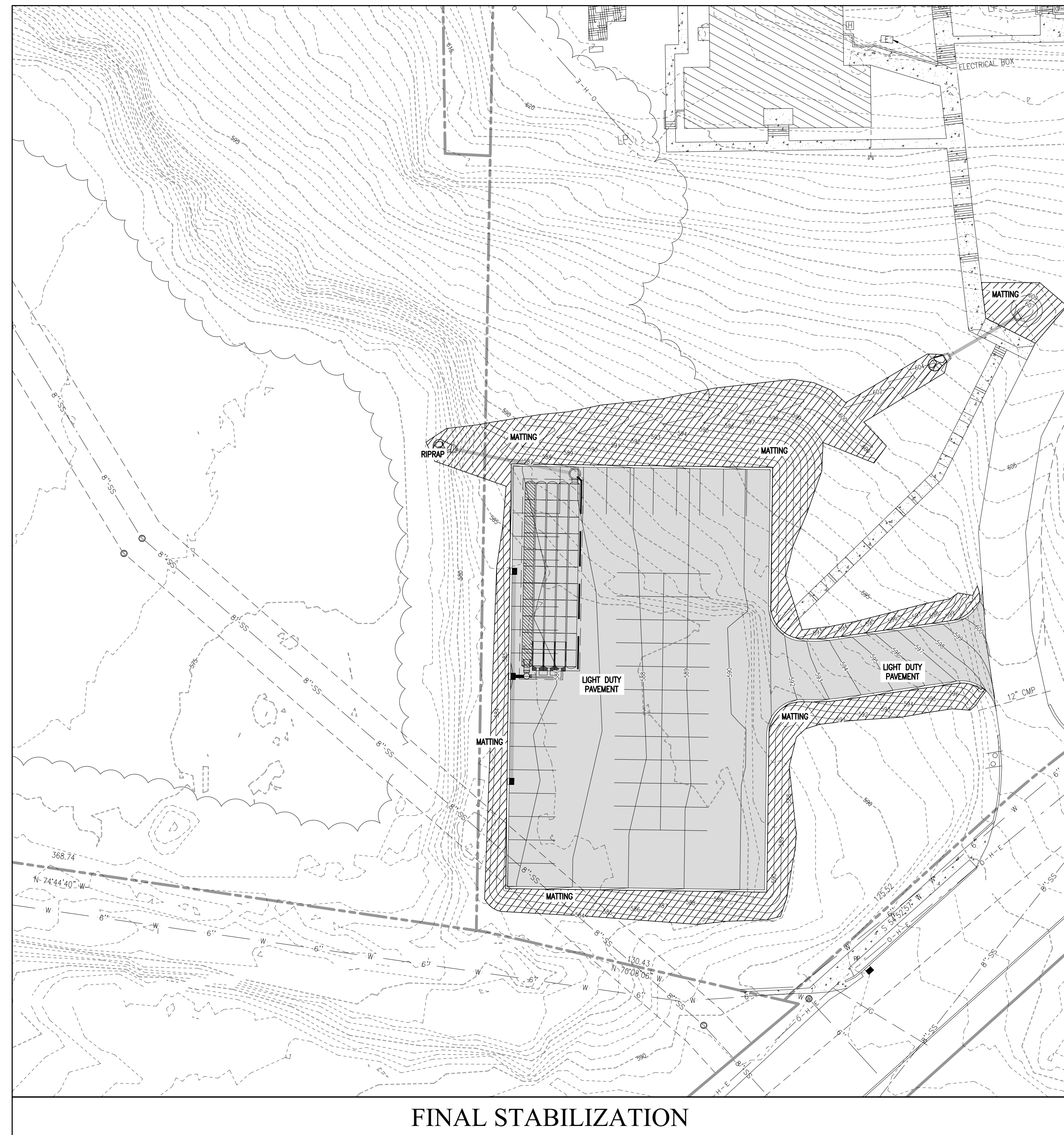
- SOD
- MATTING
- SEED & STRAW
- RIP RAP
- MULCH

DRAIN PIPE DATA											
DESIGN INFO.						AS-BUILT					
PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	INVERT	PIPE LENGTH (FEET)	PIPE DIAMETER (INCHES)	PIPE MATERIAL	SLOPE (%)	Q <sub>s</sub> (CFS)	25 YR Q <sub>s</sub> (CFS)	VELOCITY (FPS)	
8	B-6	S80.90	B-4	S80.45	42	15	HDPE	1.07%	8.01	2.09	6.53
9	B-5	S80.90	B-4	S80.45	42	15	HDPE	1.07%	8.01	1.38	6.53
10	B-4	S80.45	B-3	S80.40	3	15	HDPE	1.07%	9.99	5.04	8.14
11	B-2	S79.90	B-1	S79.00	50	15	HDPE	1.80%	10.38	2.21*	8.46
*VALUE TAKEN FROM HYDROCAD											
12	C-2	606.00	C-1	605.00	30	15	HDPE	3.33%	14.13	3.36	11.51
ALL INFRASTRUCTURE TO BE PRIVATE											

DRAINAGE STRUCTURE DATA							
DESIGN INFORMATION						AS-BUILT	
STRUCTURE NUMBER	STRUCTURE TYPE	SIZE	GRATE	*RIM ELEV.	INVERT	PIPE COVERAGE (IN.)	RIM ELEV.
B-6	**SINGLE CURB INLET	28" x 28"	3103	584.95	580.90	31.35	
B-5	**SINGLE CURB INLET	28" x 28"	3103	584.95	580.90	31.35	
B-4	**SINGLE CURB INLET	28" x 28"	3103	584.95	580.45	36.75	
B-3	NYLOPLAST DRAIN BASIN	30"	SOLID	585.10	580.40	39.15	
B-2	NYLOPLAST DRAIN BASIN W/ INTERNAL WEIR	48"	SOLID	586.90	579.90	66.75	
B-1	HEADWALL W/ ENERGY DISSIPATORS	4'	-	-	579.00	-	
C-2	HEADWALL	4'	-	-	606.00	-	
C-1	HEADWALL W/ ENERGY DISSIPATORS	4'	-	-	605.00	-	
**W/ADS INLET FITLER LITE "62UTENYCB22"				*RIM ELEV. @ BOTTOM OF CURB			
ALL INFRASTRUCTURE TO BE PRIVATE							



GRADING & DRAINAGE PLAN



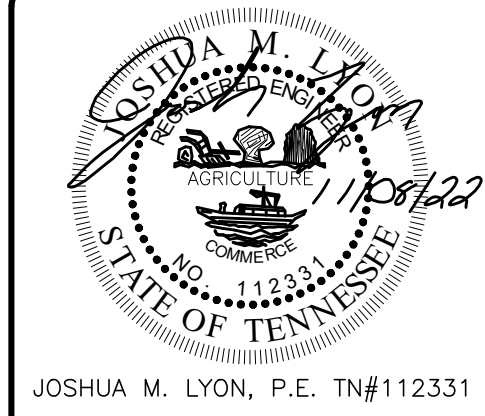
FINAL STABILIZATION

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REVISIONS

NO.	BY	DATE	DESCRIPTION



JOSHUA M. LYON, P.E. TN#112331

CONSTRUCTION DOCUMENTS

**ROBERTSON COUNTY  
INNOVATION ACADEMY**

715 5TH AVENUE WEST  
SPRINGFIELD, TN  
ROBERTSON COUNTY

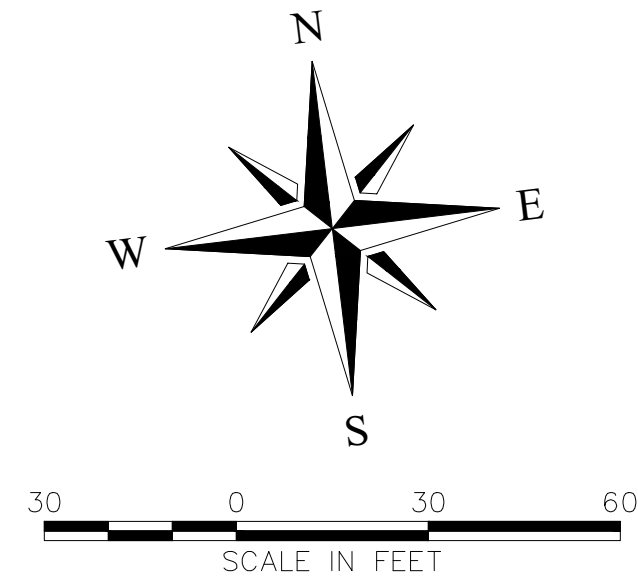
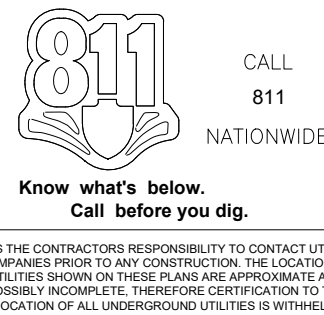
DRAWN BY: CJN  
CHECKED BY: JML  
PROJECT NO.: C02921

SOUTH LOT  
GRADING,  
DRAINAGE, & FINAL  
STABILIZATION PLAN  
SHEET NUMBER

**C1.08**

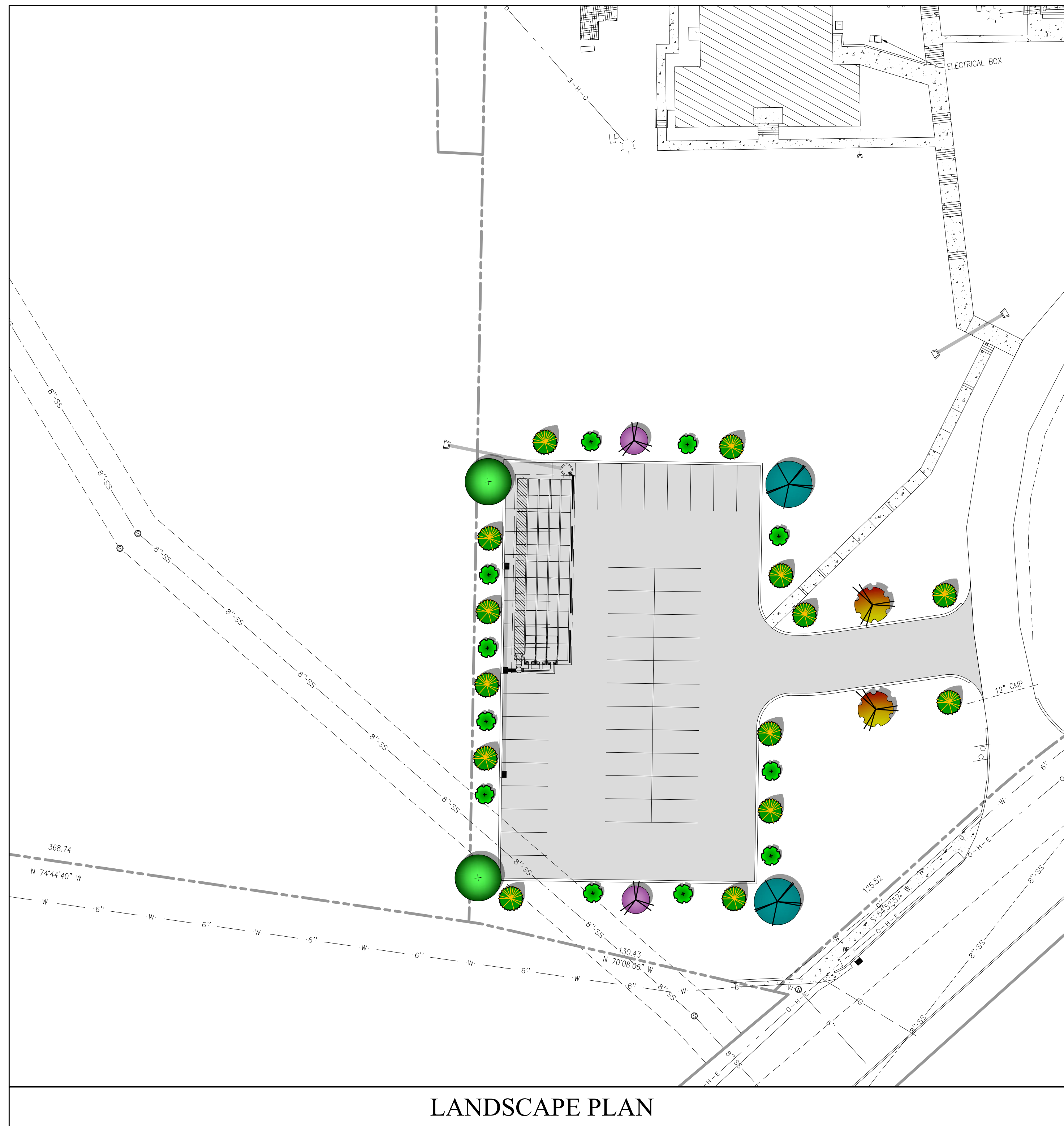
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LEGEND:

- PROPERTY LINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- OVERHEAD ELECTRIC LINE
- FENCE
- NEW CURB
- SET FENCE
- EXISTING 3" CONTOUR
- EXISTING 1" CONTOUR
- NEW 1" CONTOUR
- DEMO LINE
- MANHOLE
- C/O CLEAN OUT
- PP/O POWER POLE
- WATER METER
- FIRE HYDRANT
- IRON ROO OLD
- IRON ROO NEW
- PIPE INVERT
- INV. = 23.42
- 28.14
- SPOT ELEVATION
- SLOPE DIRECTION



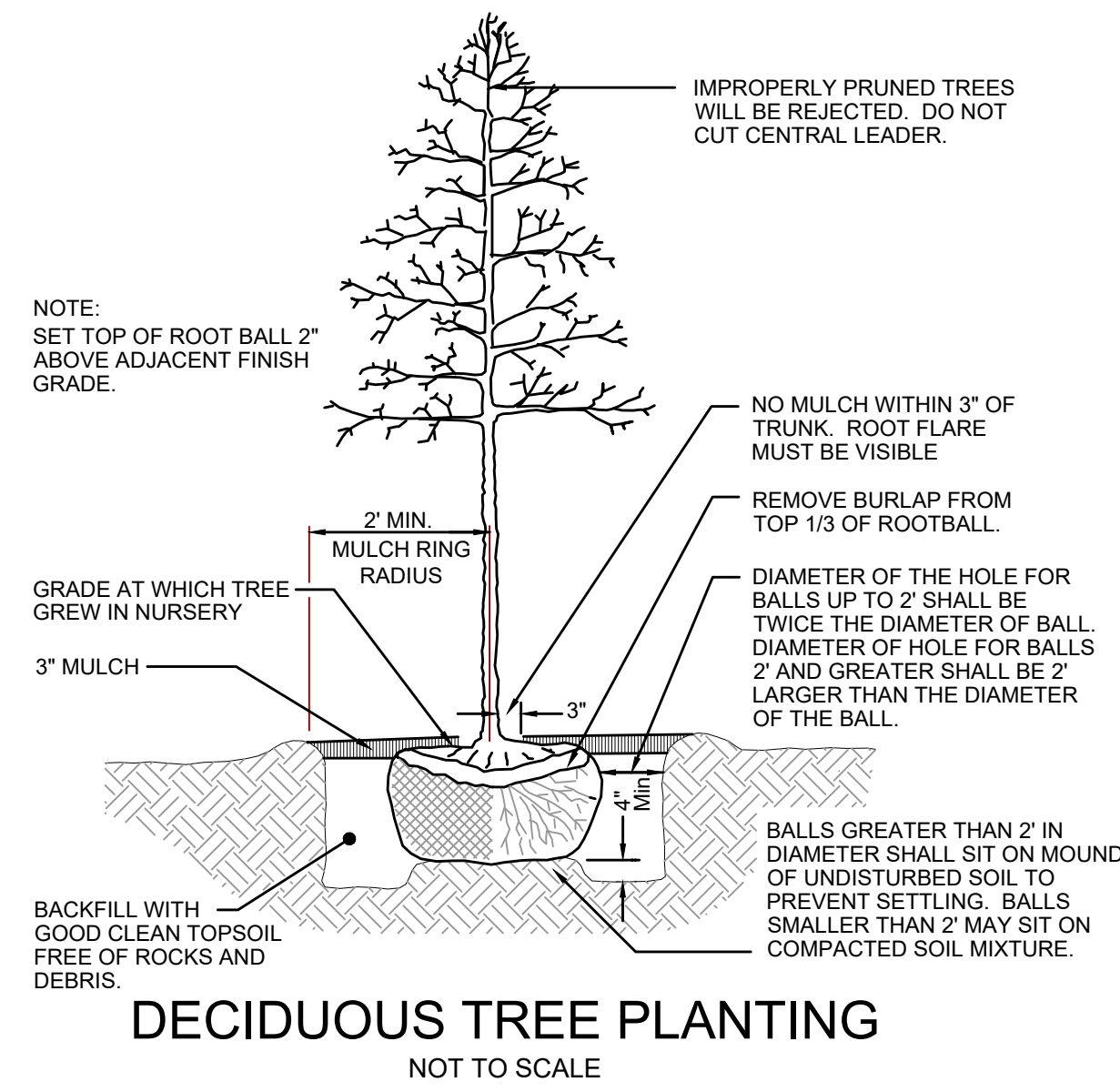
LANDSCAPE PLAN

TREE/SHRUB LEGEND	
<b>CANOPY TREES</b>	
	ENGLISH OAK
	AMERICAN SYCAMORE
<b>UNDERSTORY TREES</b>	
	CHEROKEE CHIEF DOGWOOD
	YOSHINO CHERRY
<b>SHRUBS</b>	
	NELLIE R STEVENS HOLLY
	GREEN GIANT ARBORVITAE

PLANT SCHEDULE			
QTY.	COMMON NAME	HEIGHT	TRUNK
<b>CANOPY TREES</b>			
2	ENGLISH OAK	10' - 12'	2" Cal.
2	AMERICAN SYCAMORE	10' - 12'	2" Cal.
4	TOTAL - CANOPY TREES		
<b>UNDERSTORY TREES</b>			
2	CHEROKEE CHIEF DOGWOOD	7' Min.	2" Cal.
2	YOSHINO CHERRY	7' Min.	2" Cal.
8	TOTAL - ALL TREES		
<b>SHRUBS</b>			
11	NELLIE R STEVENS HOLLY	18" Min.	3 Gal.
14	GREEN GIANT ARBORVITAE	18" Min.	3 Gal.
25	TOTAL - SHRUBS		

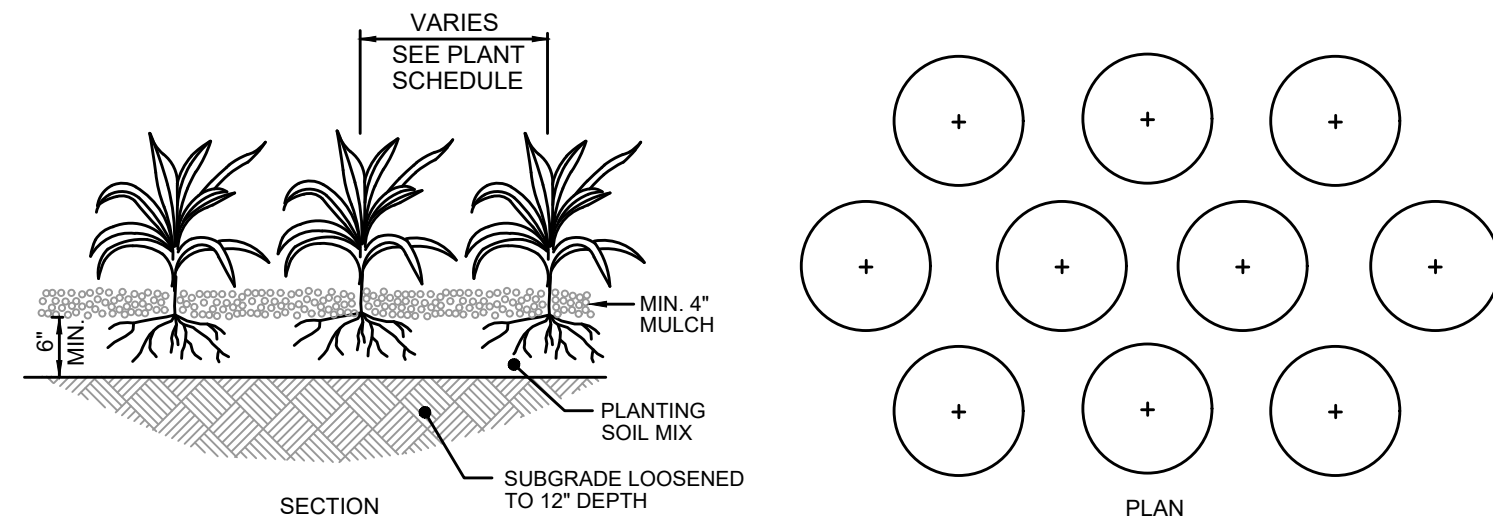
LANDSCAPE NOTES:

- WHEN APPLICABLE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING TREES TO REMAIN. NO HEAVY EQUIPMENT SHOULD BE PERMITTED TO OPERATE OR BE STORED, NOR ANY MATERIALS TO BE HANDLED OR STORED, WITHIN THE DRIFLINES OF TREES OUTSIDE THE LIMIT OF GRADING.
- THE QUANTITIES INDICATED ON THE PLANT LIST AND PLAN ARE PROVIDED FOR THE BENEFIT OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY CALCULATIONS AND THE LIABILITY WHICH PERTAINS TO THOSE QUANTITIES AND TO ANY RELATED CONTRACT DOCUMENTS AND/OR PRICE QUOTATIONS. QUESTIONS SHOULD BE DIRECTED TO THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIALS SHALL BE NURSERY GROWN, GRADE "A" QUALITY, UNLESS OTHERWISE NOTED AND SHALL COMPLY WITH THE AMERICAN STANDARD FOR NURSERY STOCK: ANSI Z-60.1; LATEST EDITION, FOR SIZE AND QUALITY.
- SEE SPRINGFIELD LANDSCAPING ORDINANCE FOR ACCEPTABLE TREE/SHRUB SUBSTITUTIONS.
- THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES AND TO PROTECT UTILITIES THAT ARE TO REMAIN. THE CONTRACTOR SHALL REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
- ALL AREAS DISTURBED BY UTILITY TRENCHING, SITE AND BUILDING CONSTRUCTION SHALL BE STABILIZED WITH SEEDING AND SOODING AS SHOWN BY THE PLAN.
- SOIL USED FOR PLANTING SHALL CONSIST OF (5) PARTS TOPSOIL, (1) PART SAND AND (2) PARTS ORGANIC MATTER, MIXED WITH 1 POUND OF FERTILIZER PER CUBIC YARD.
  - A. SAND SHALL BE CLEAN MASONRY SAND.
  - B. ORGANIC MATTER SHALL BE PEAT MOSS, OR WELL COMPOSTED PINE BARK, OR APPROVED EQUAL AND SHALL BE FINELY GROUND AND FREE OF WEEDS.
  - C. ALL FERTILIZER SHALL BE 10-10-10 WITH MINOR ELEMENTS. FERTILIZER SHALL HAVE 40-50% OF ITS TOTAL NITROGEN IN A WATER INSOLUBLE FORM.
- PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANT BEDS AND SOD AREAS PRIOR TO INSTALLATION. TREFLAN OR AN APPROVED EQUAL SHALL BE USED.
- ALL PLANT BEDS SHALL HAVE A MINIMUM OF 3" DEEP MULCH. MULCH SHALL BE SHREDDED HARDWOOD.
- IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO CONFIRM MATERIAL QUANTITIES. IN THE EVENT OF A DISCREPANCY, THE QUANTITIES SHOWN ON THE PLAN SHALL TAKE PRECEDENCE OVER QUANTITIES SHOWN ON THE PLANT LIST.
- PRIOR TO FINAL PAYMENT, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER WITH COMPLETE WRITTEN INSTRUCTIONS ON PROPER CARE OF ALL SPECIFIED PLANT MATERIALS.
- THE LANDSCAPE INSTALLATION SHALL BE COORDINATED WITH THE IRRIGATION INSTALLATION WHEN APPLICABLE.
- THE LANDSCAPE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM STRUCTURES AND TAKE SPECIAL CARE TO INSURE THAT BED PREPARATION DOES NOT INHIBIT DRAINAGE.
- ALL LAWN AREAS SHALL BE CULTIVATED TO A DEPTH OF 4" PRIOR TO SOODING AND SEEDING. PREPARED TURF BEDS SHALL BE FREE FROM STONES OVER 2" DIAMETER, WEEDS AND OTHER DELETERIOUS MATERIAL.
- THE LANDSCAPE CONTRACTOR SHALL RAKE SMOOTH ALL SEED OR SOD AREAS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILLING BEHIND THE CURB SO GRADE IS LEVEL WITH TOP OF CURB.
- SODDED AREAS SHALL HAVE NO BARE AREAS. SEEDING AREAS SHALL BE CONSIDERED ACCEPTABLE WHEN FULL COVERAGE OF THE PERMANENT TURF GRASS SPECIES IS ESTABLISHED.
- CUT AWAY ROPES OR WIRES FROM B&B PLANTS. PULL BACK BURLAP FROM TOP OF ROOT BALL. DO NOT ALLOW BURLAP TO BE EXPOSED AT SURFACE. TOTALLY REMOVE BURLAP IF IT IS SYNTHETIC.
- IF CONTAINER GROWN PLANTS SHOW SIGNS OF BEING ROOT BOUND, SCORE ROOTS VERTICALLY.
- ALL PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- ALL REPLACEMENTS SHALL BE OF THE SAME TYPE, SIZE, AND QUALITY AS SPECIFIED ON THE PLANT LIST, UNLESS APPROVED OTHERWISE IN WRITING BY THE LANDSCAPE ARCHITECT.
- ANY MATERIAL THAT IS DEEMED TO BE 25% DEAD OR MORE SHALL BE CONSIDERED DEAD, AND MUST BE REPLACED AT NO CHARGE. A TREE IS CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED BACK, OR MORE THAN 25% OF THE CROWN IS DEAD.
- REPLACEMENTS SHALL BE MADE DURING THE NEXT PLANTING SEASON UNLESS THE LANDSCAPE CONTRACTOR AGREES TO AN EARLIER DATE.
  - PLANTING DATES:
  - SPRING: MARCH 15 - APRIL 15
  - FALL: OCTOBER 1 - NOVEMBER 30
- THE LANDSCAPE CONTRACTOR WILL NOT BE RESPONSIBLE FOR PLANT MATERIAL THAT HAS BEEN DAMAGED BY VANDALISM, FIRE, RELOCATION, WILDLIFE, THEFT, OR OTHER ACTIVITIES BEYOND THE LANDSCAPE CONTRACTOR'S CONTROL.
- YARD HYDRANTS AND HOSE BIBS WILL BE THE PRIMARY SOURCE OF WATER FOR NEW LANDSCAPING.



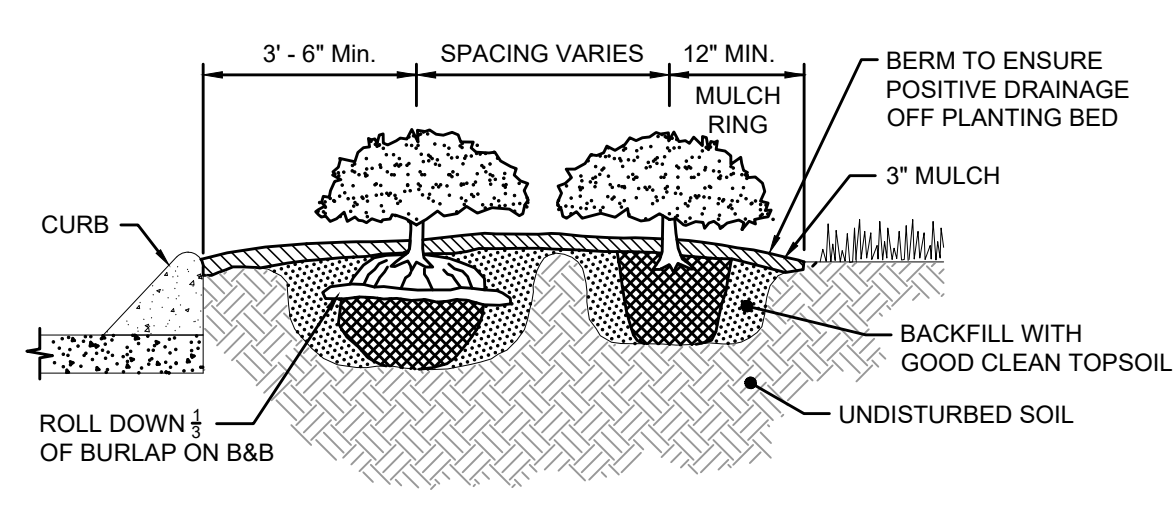
DECIDUOUS TREE PLANTING

NOT TO SCALE



GROUND COVER / PERENNIAL PLANTING

NOT TO SCALE



SHRUB / GROUND COVER PLANTING

NOT TO SCALE

**KLOBER ENGINEERING SERVICES**

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 3568 TOM AUSTIN HWY. SUITE 1, SPRINGFIELD, TN 37172  
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 WWW.KLOBERENGINEERING.COM

NO.	BY	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS

**ROBERTSON COUNTY INNOVATION ACADEMY**

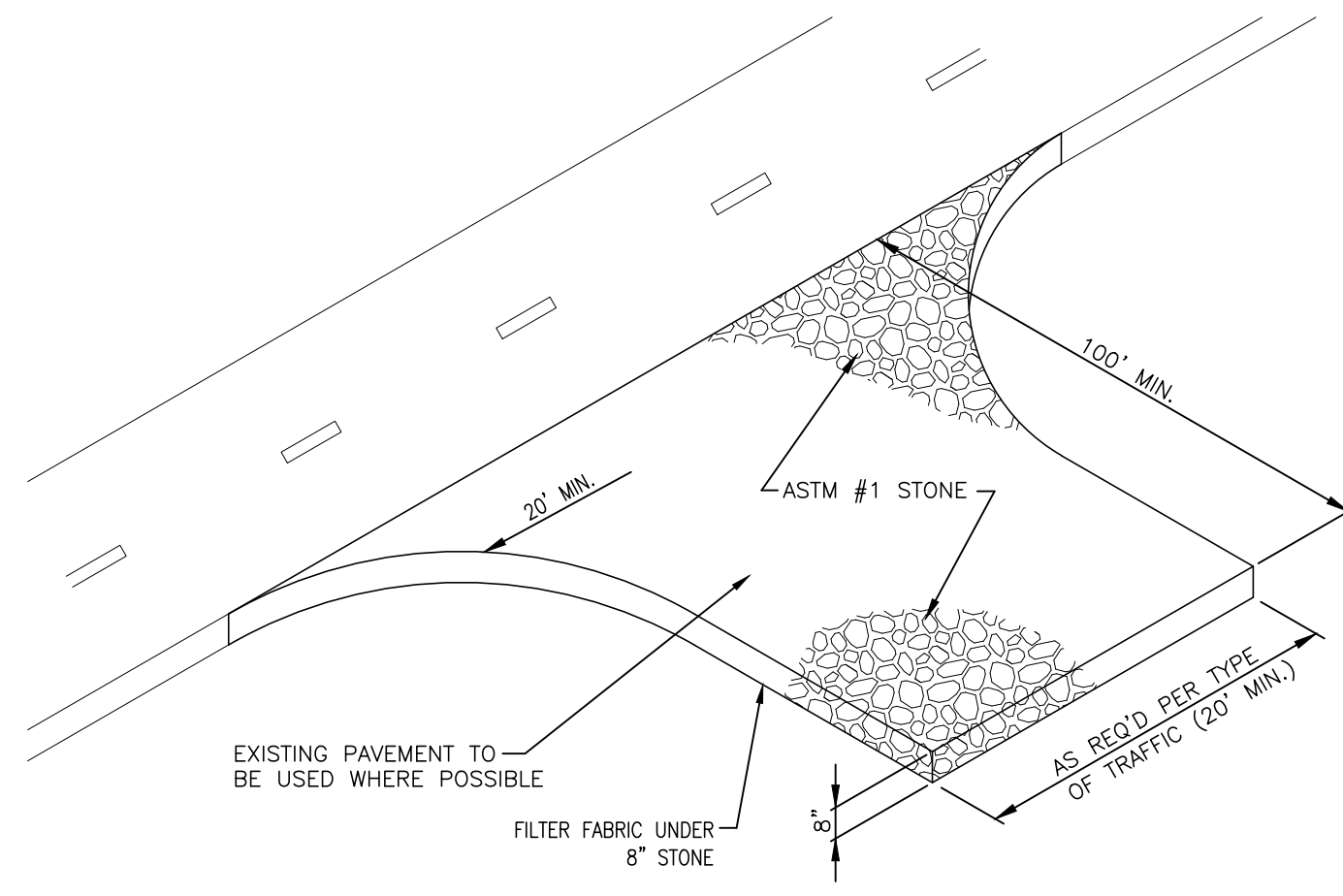
715 5TH AVENUE WEST  
 SPRINGFIELD, TN  
 ROBERTSON COUNTY

DRAWN BY: C/JN  
 CHECKED BY: JML  
 PROJECT NO.: C02921

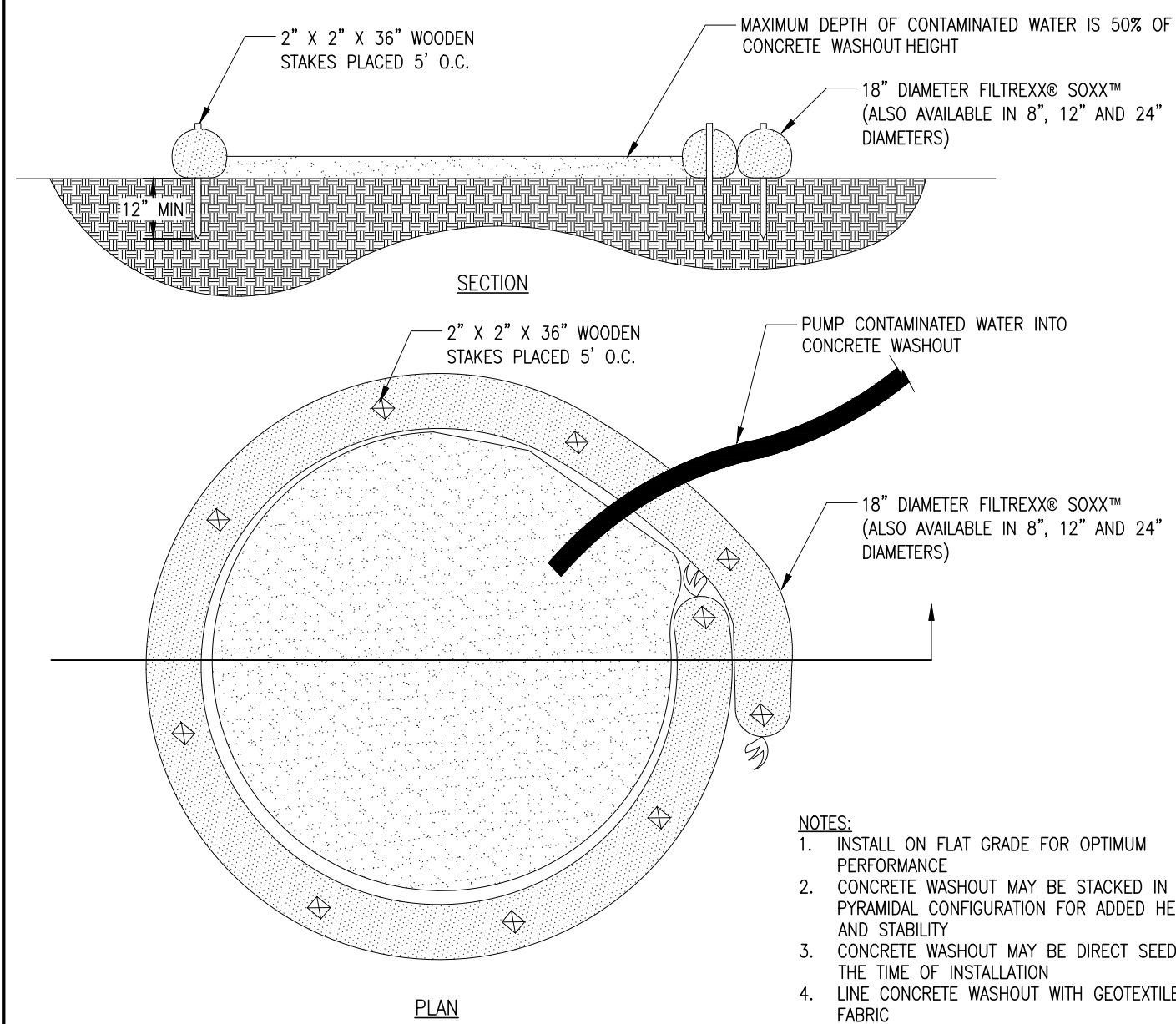
**SOUTH LOT LANDSCAPING PLAN**

SHEET NUMBER  
**C1.09**

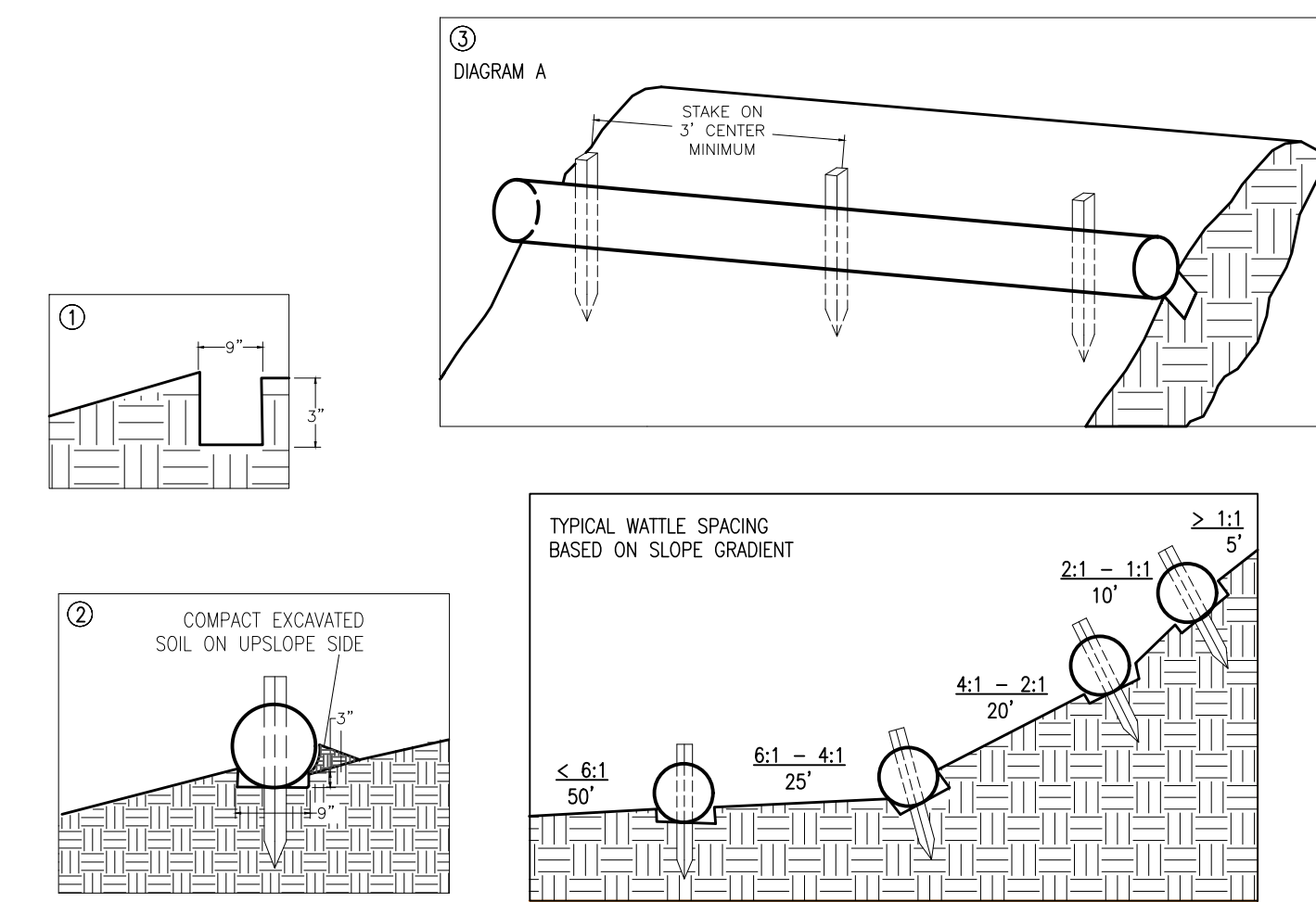
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**TEMPORARY CONSTRUCTION ENTRANCE DETAIL**  
NOT TO SCALE METRO STORMWATER MANAGEMENT MANUAL TCP-03

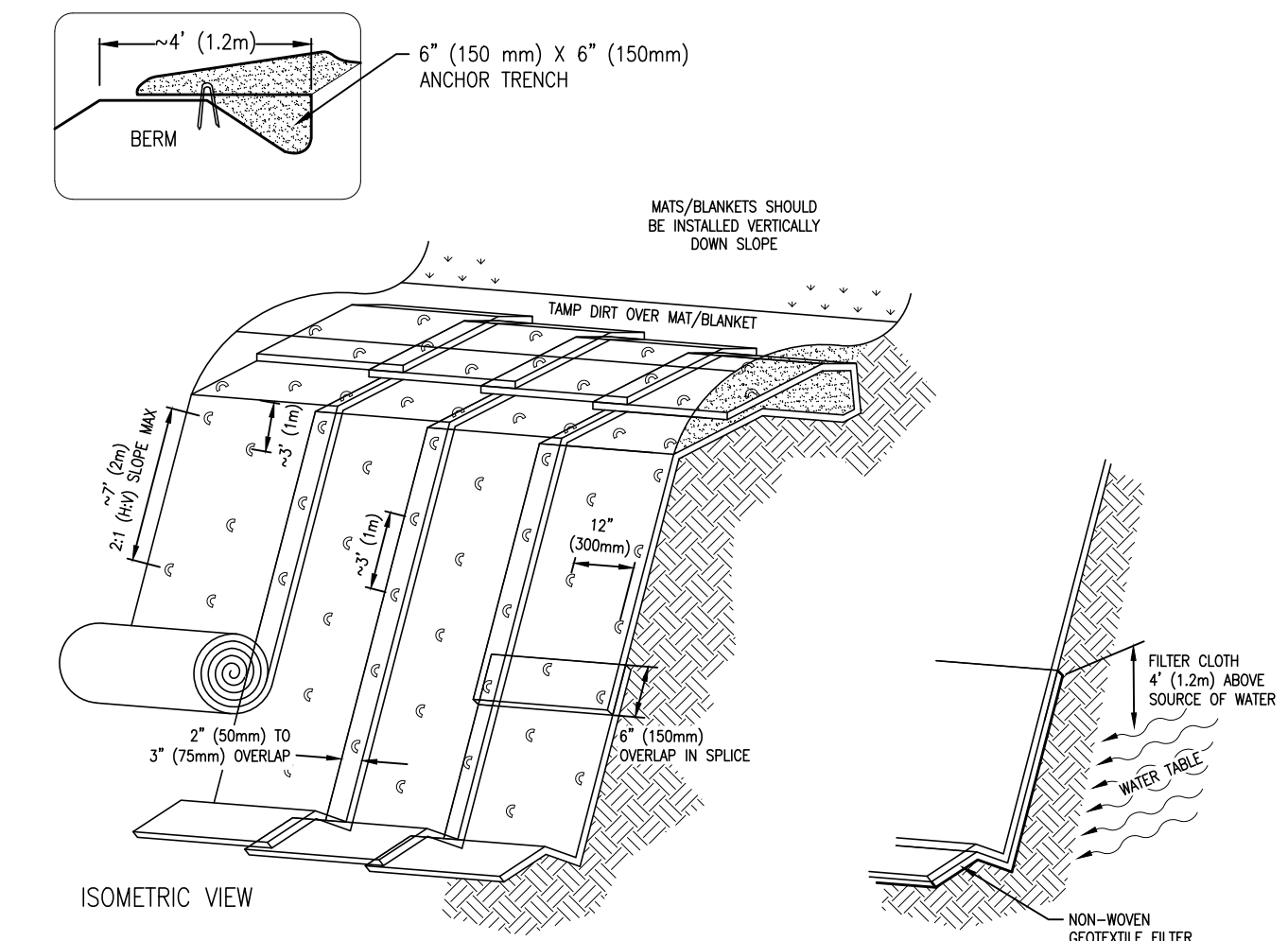


**FILTREXX® CONCRETE WASHOUT**  
NOT TO SCALE



1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3' (5-7.5 CM) DEEP X 9" (22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UPSLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPSLOPE SIDE. ADJACENT WATTLES SHOULD TIGHTLY ADJUT.
3. SECURE THE WATTLE WITH 18-24" (45.7-61 CM) STAKES EVERY 3-4' (0.9-1.2 M) AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" (5-7.5 CM) OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

**STRAW WATTLE ON SLOPE**  
NOT TO SCALE

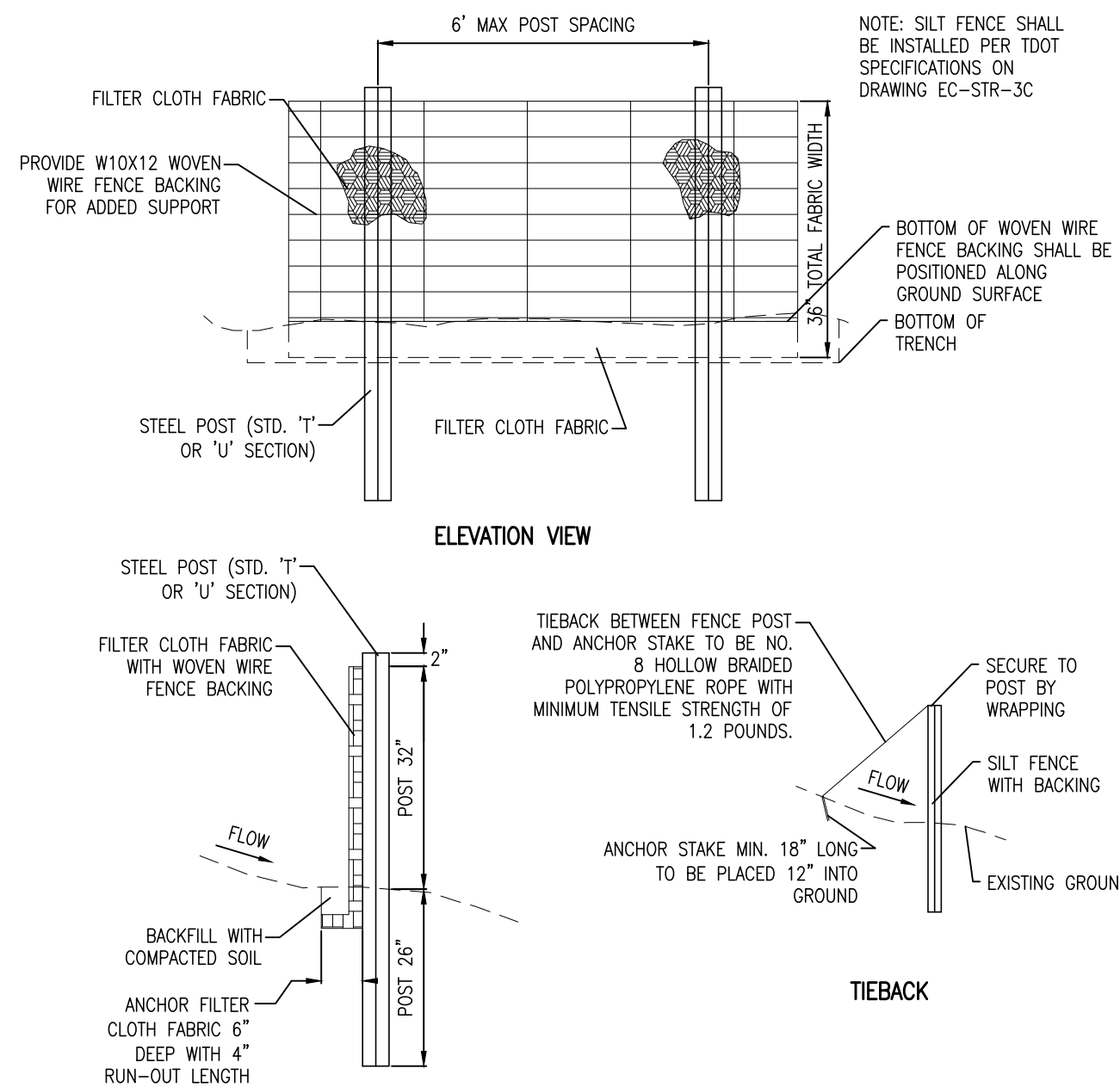


**TYPICAL SLOPE SOIL STABILIZATION**  
N.T.S.

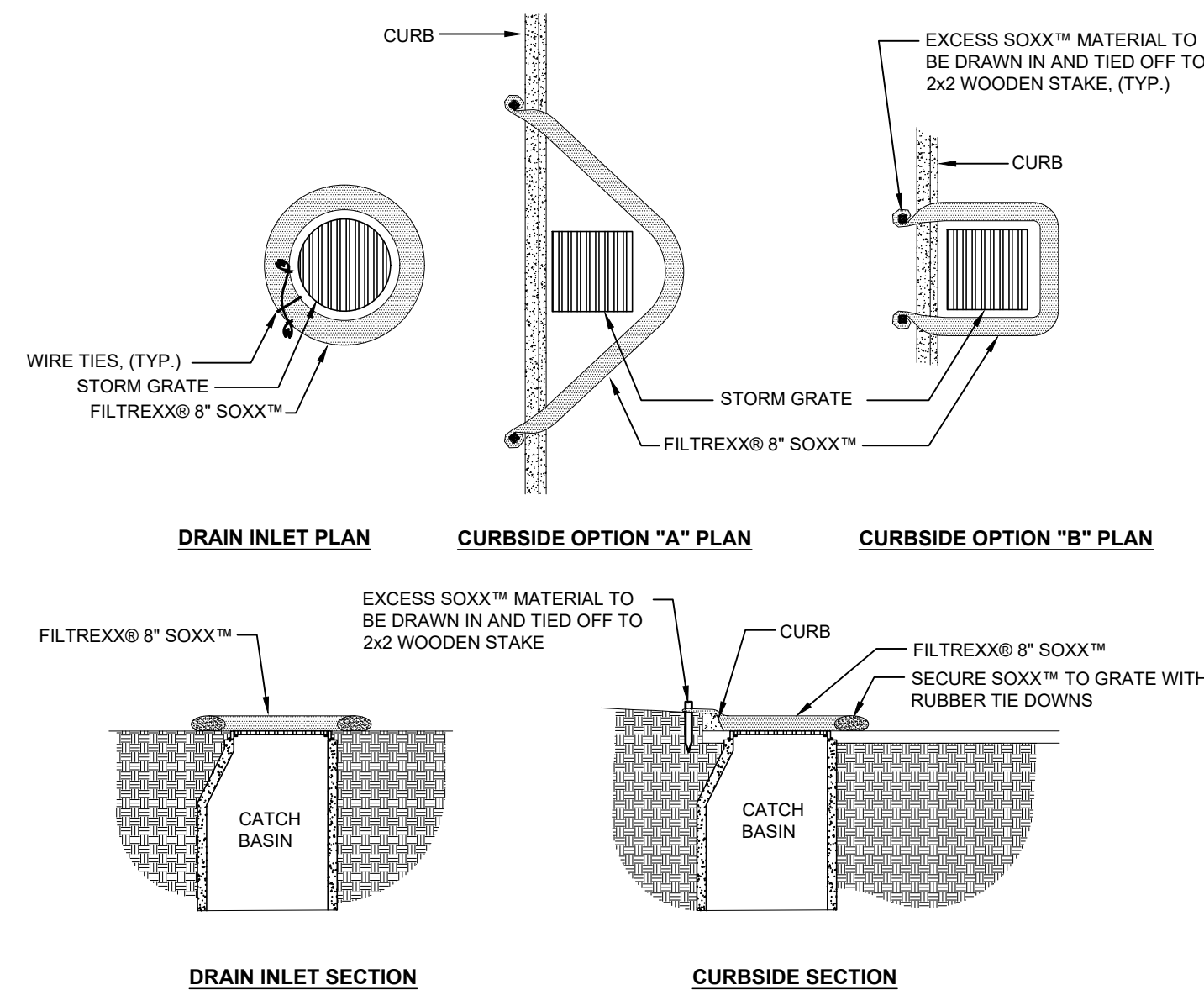
**WET SLOPE LINING**  
N.T.S.

- NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, SOIL CLOS, STICKS AND GRASS. MATS/BANKETS SHALL HAVE GOOD SOIL CONTACT
  2. LAY BANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

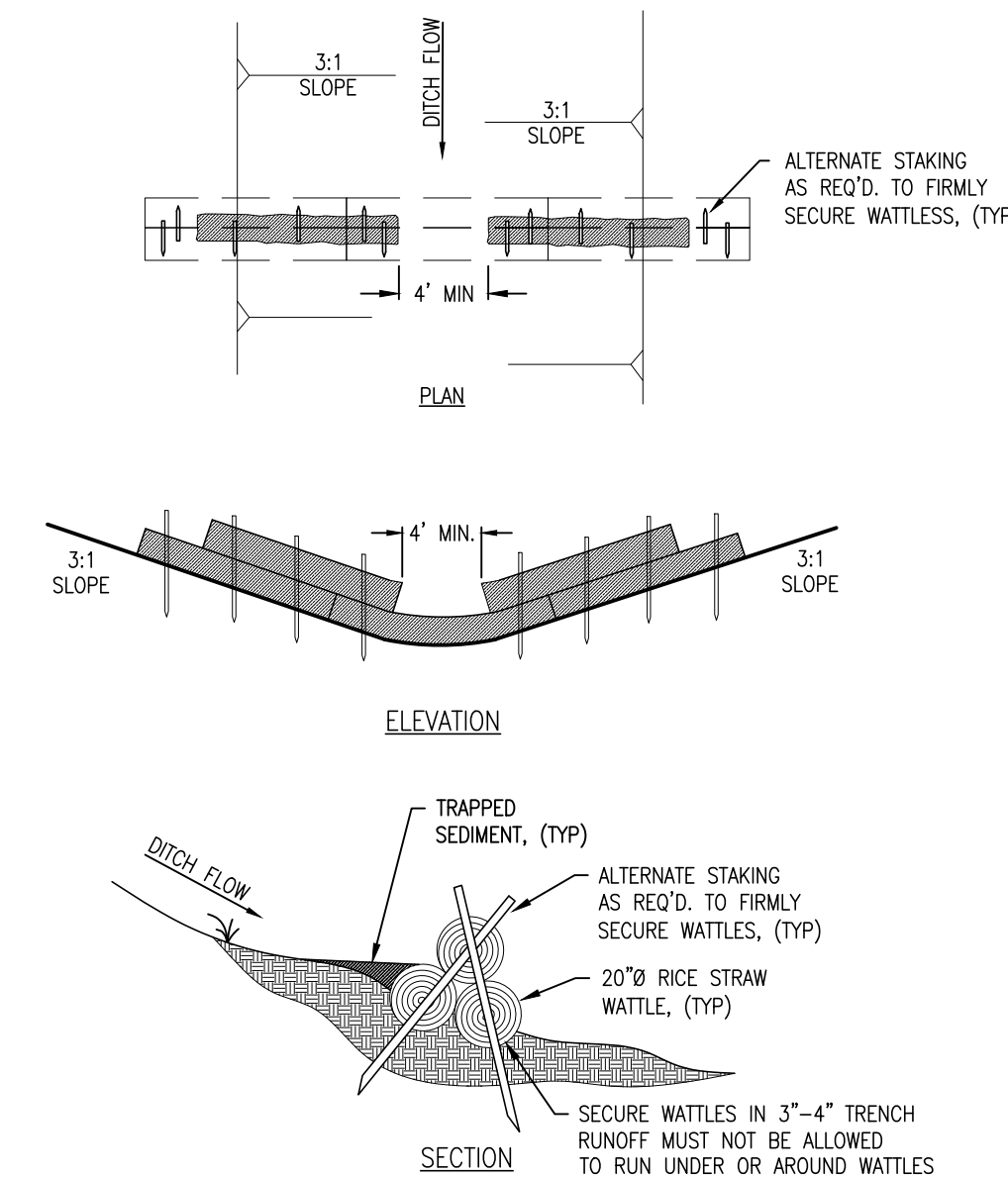
**GRASS MATTING PLACEMENT**  
METRO STORMWATER MANAGEMENT MANUAL PESC-02



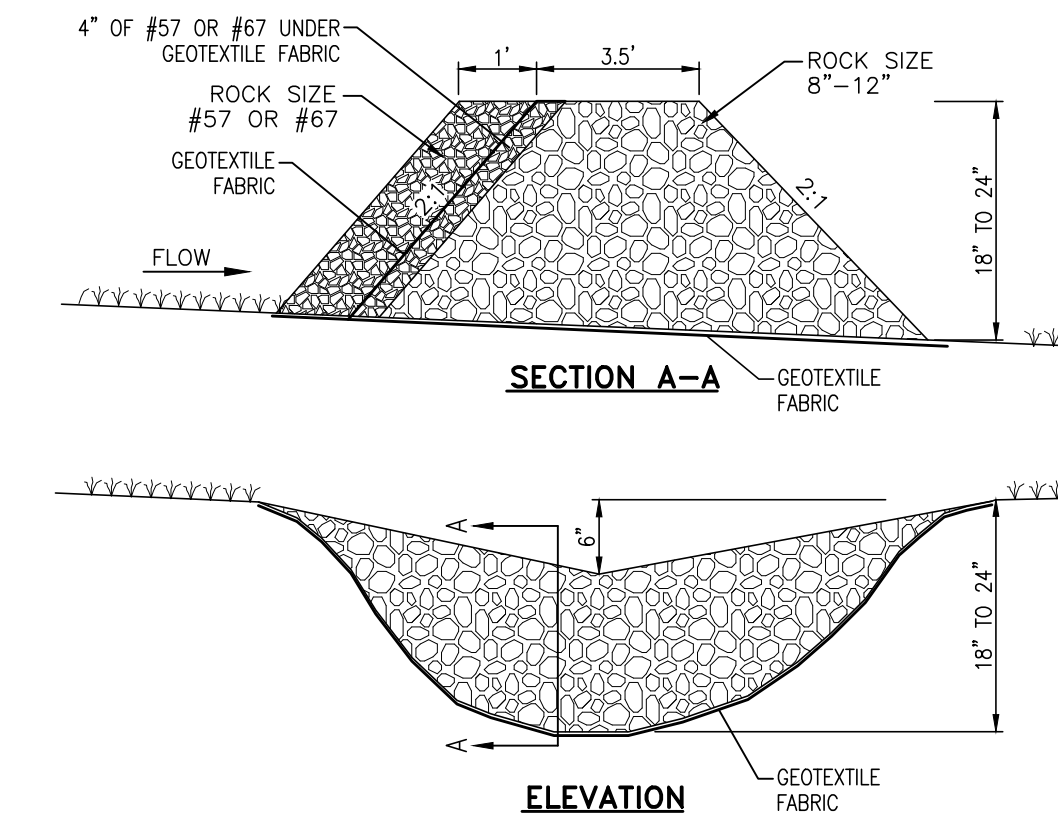
**TEMPORARY SILT FENCE WITH BACKING**  
NOT TO SCALE



**FILTREXX® INLET PROTECTION**  
NTS



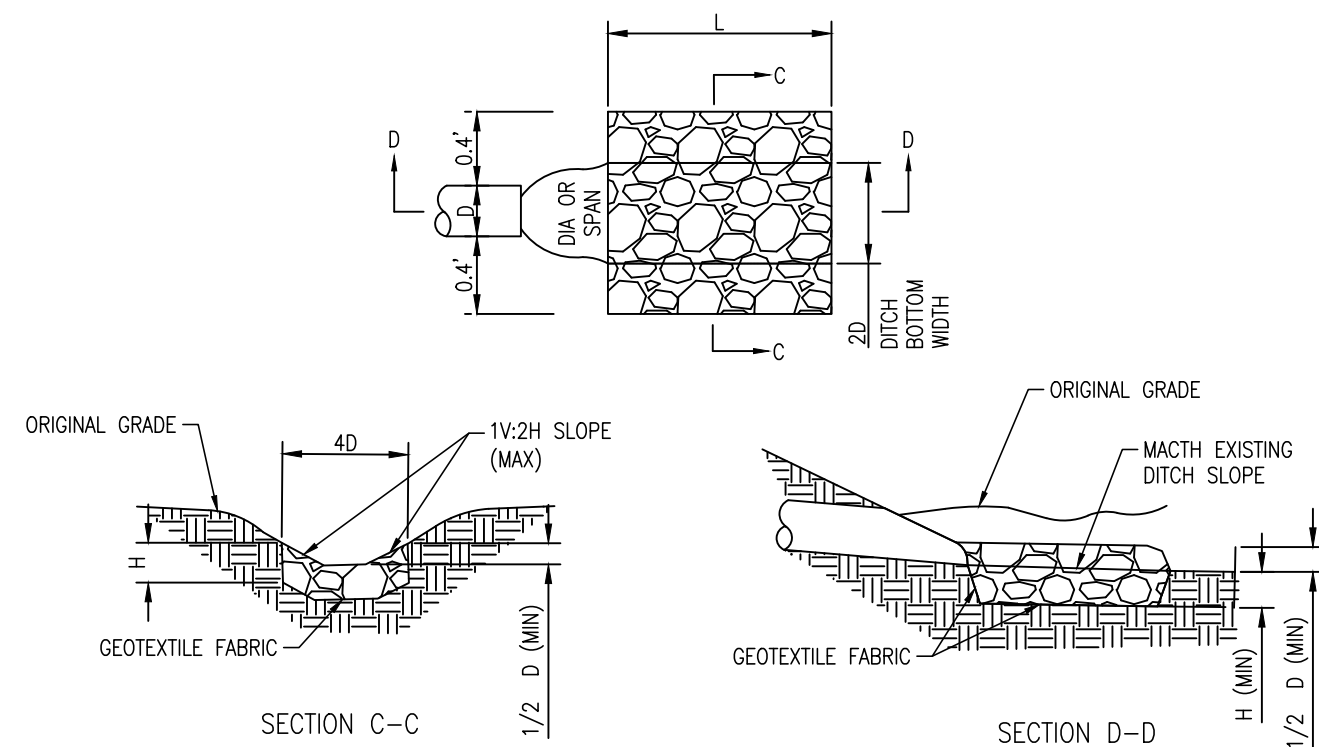
**STRAW FILTER CHECK DAM**  
NOT TO SCALE



**ROCK FILTER-CHECK DAM**  
NOT TO SCALE

**OUTLET WITH DITCH PROTECTIVE APRON DIMENSIONS AND ESTIMATED QUANTITIES**

	(D) - CULVERT SIZE IN INCHES	RIPRAP CLASS	(L) LENGTH OF APRON IN FEET	(H) DEPTH OF APRON IN FEET	(CY) ESTIMATED RIPRAP QUANTITY	(SY) ESTIMATED GEOTEXTILE FAB.
WITH END SECTION	12	2	4.0	1.5	0.9	5
	18	2	6.0	1.5	2.0	8
	24	2	8.0	1.5	3.6	13
	30	3	12.5	2.0	9.3	24
	36	3	15.0	2.0	13.4	32
	42	4	21.0	2.5	27.3	53
	48	4	24.0	2.5	35.6	65



**TYPICAL RIP-RAP APRON AT HEADWALL**  
NOT TO SCALE

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WWW.KLOBERENGINEERING.COM

NO.	BY	DATE	DESCRIPTION

JOSHUA M. LYON, P.E. TN#112331

**CONSTRUCTION DOCUMENTS**

**ROBERTSON COUNTY INNOVATION ACADEMY**

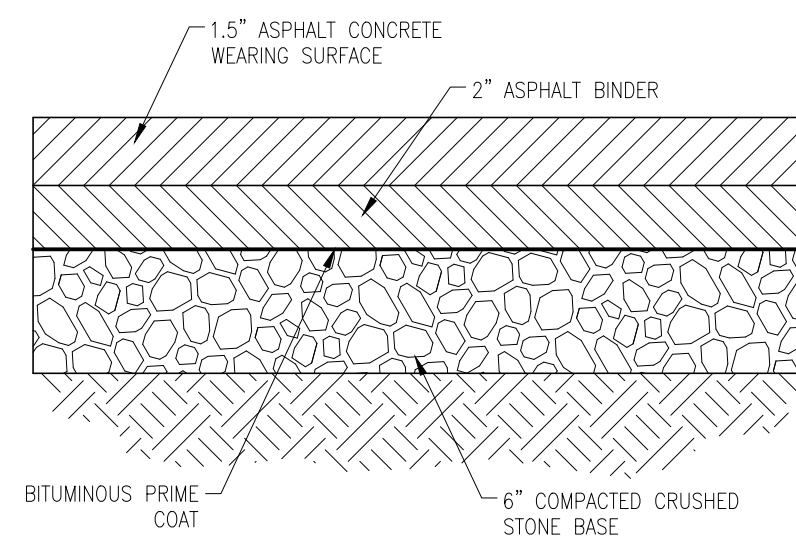
715 5TH AVENUE WEST  
SPRINGFIELD, TN  
ROBERTSON COUNTY

DRAWN BY: CJN  
CHECKED BY: JML  
PROJECT NO.: C02921

**CONSTRUCTION DETAILS**

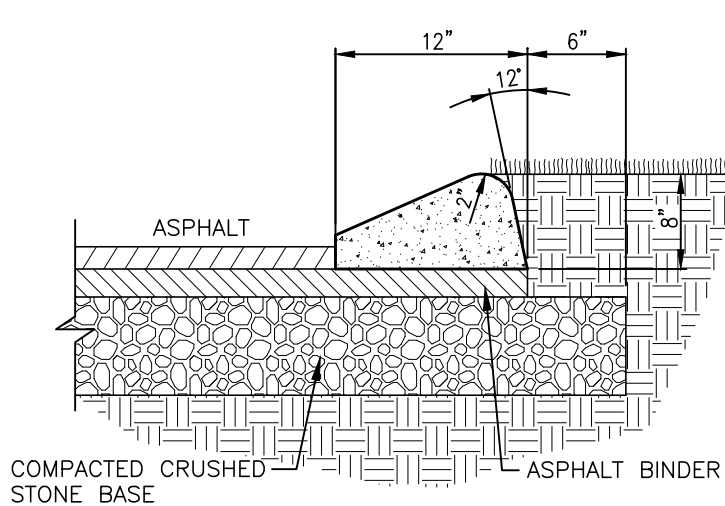
SHEET NUMBER  
**C2.01**

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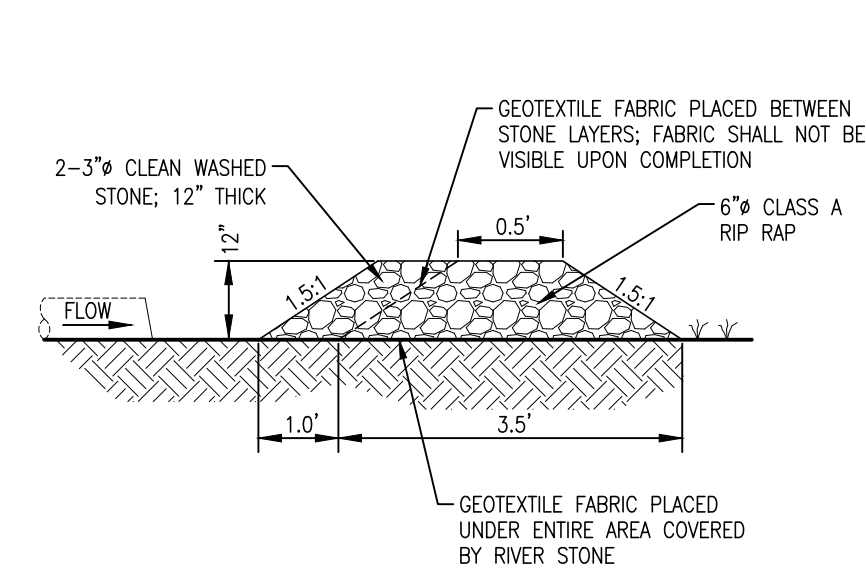


**LIGHT DUTY ASPHALT PAVING DETAIL**  
NOT TO SCALE

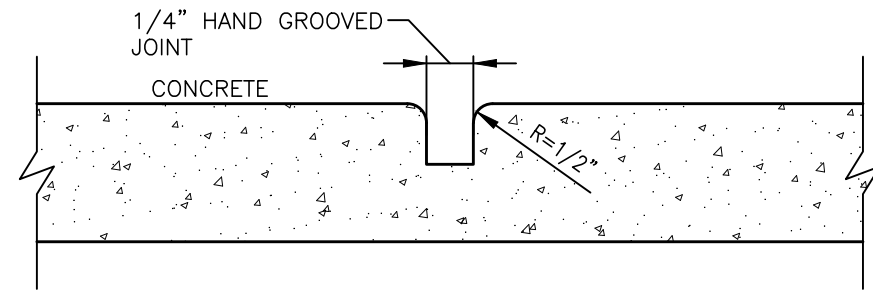
VERIFY PAVEMENT AND STONE THICKNESS WITH ANY CURRENT GEOTECH REPORT



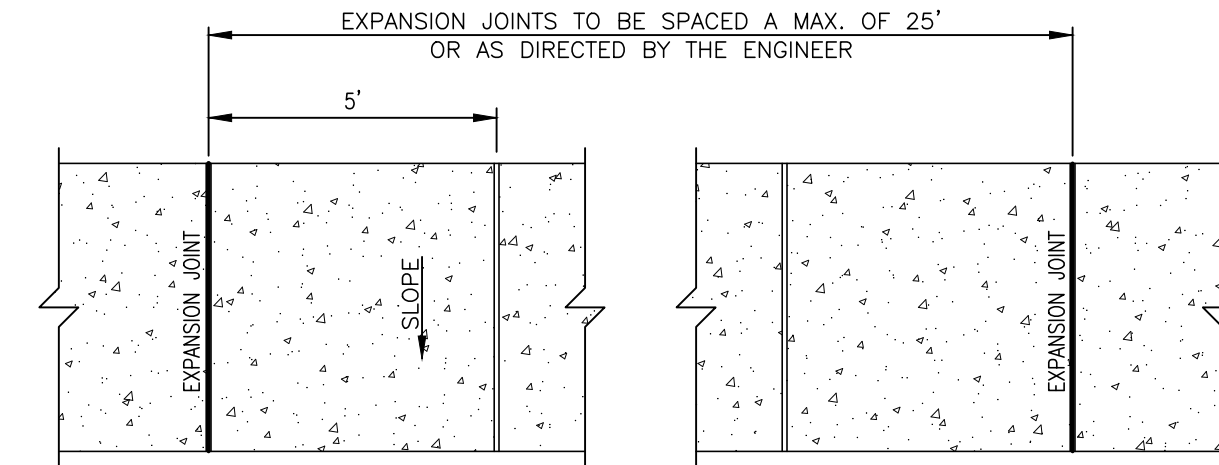
**EXTRUDED CURB DETAIL**  
NOT TO SCALE



**PRETREATMENT CELL WITH PERMEABLE STONE BERM**  
NOT TO SCALE

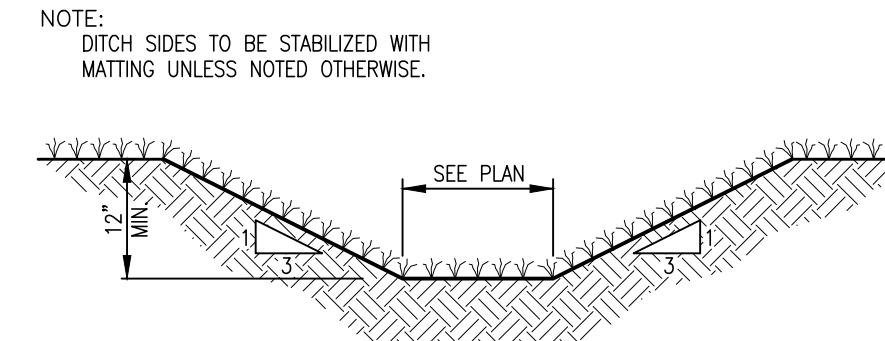


**CONTROL JOINT**  
NOT TO SCALE

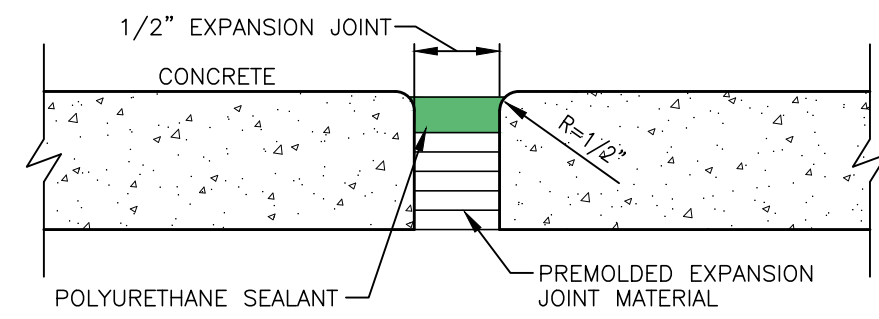


GENERAL NOTES:  
1. SIDEWALKS SHALL BE A MIN. OF 4" IN THICKNESS AND MAINTAIN A MIN. OF 3" CLEARANCE THROUGH THE PATH  
2. MAXIMUM CROSS SLOPE FOR SIDEWALKS SHALL BE 1:48 (VERTICAL:HORIZONTAL).

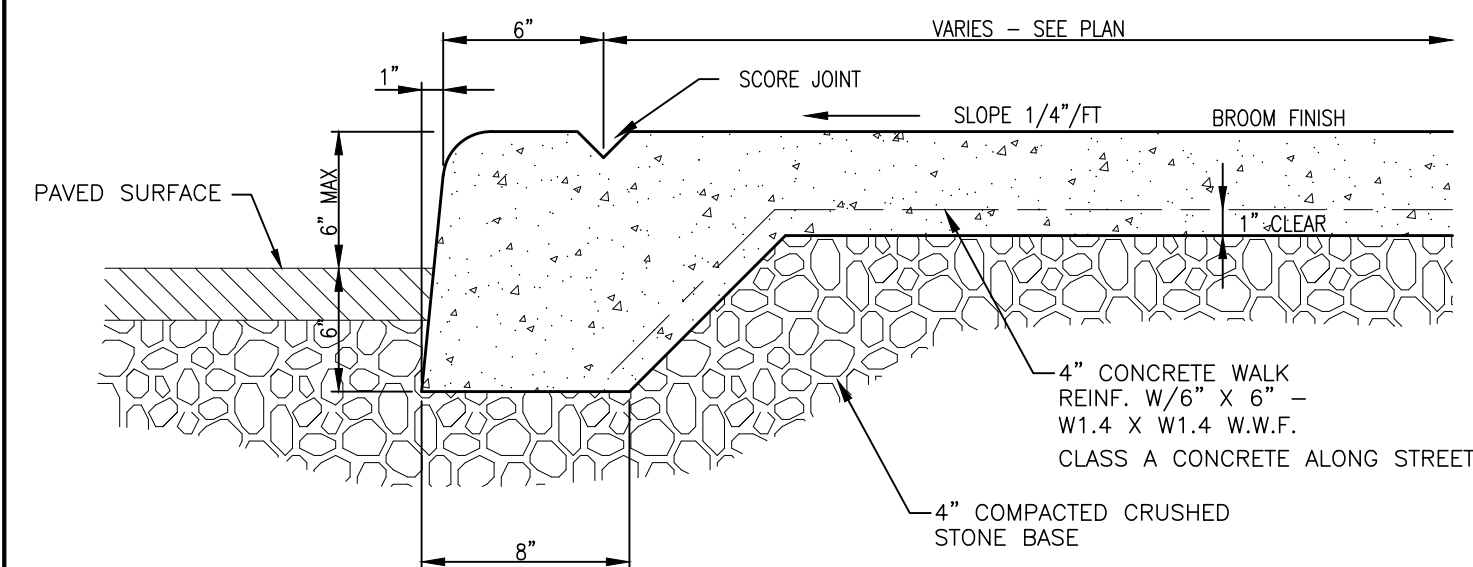
**TYPICAL CONCRETE SIDEWALK**  
NOT TO SCALE



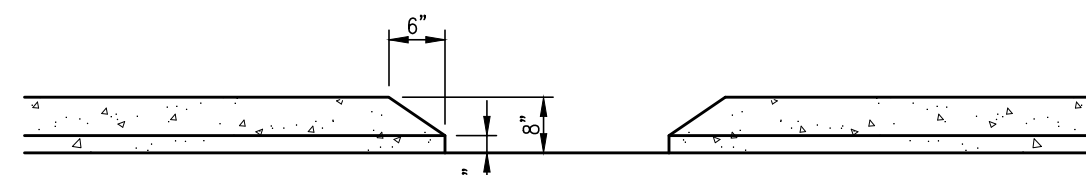
**TYPICAL FLAT BOTTOM DITCH DETAIL**  
NOT TO SCALE



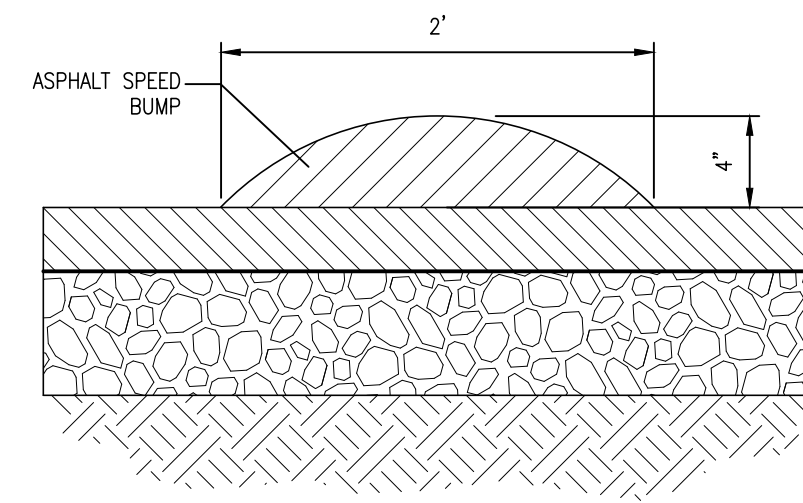
**EXPANSION JOINT**  
NOT TO SCALE



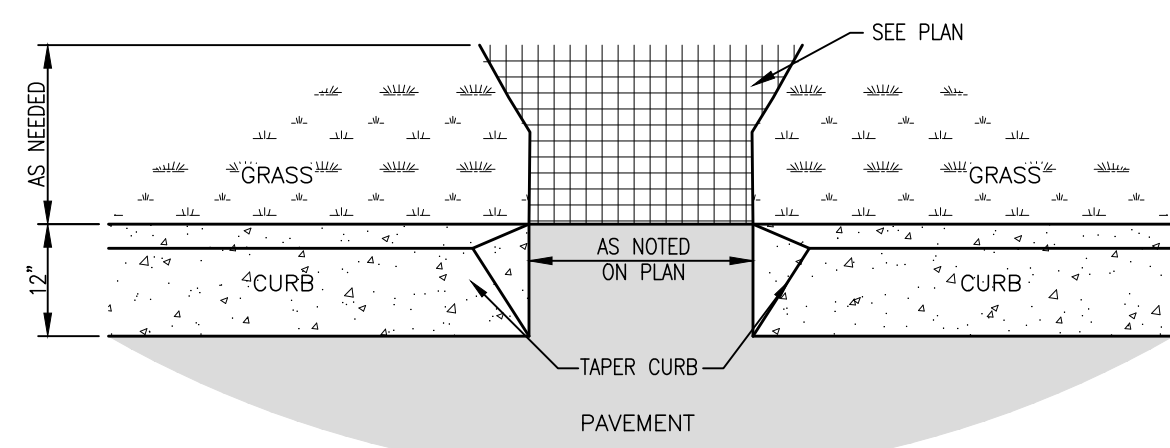
**CONCRETE SIDEWALK & HAUNCHED CURB**  
NOT TO SCALE



**CURB TAPER**



**SPEED BUMP DETAIL**  
NOT TO SCALE



**TYPICAL CURB CUT**  
NOT TO SCALE

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JOSHUA M. LYON, P.E. TN#112331

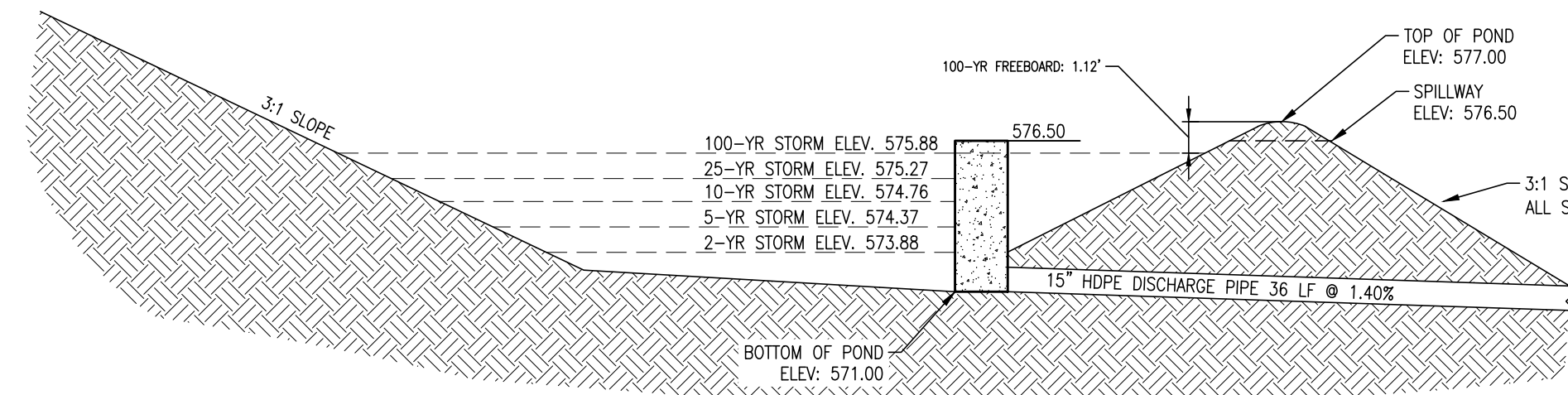
**CONSTRUCTION DOCUMENTS**

**ROBERTSON COUNTY INNOVATION ACADEMY**  
715 5TH AVENUE WEST  
SPRINGFIELD, TN  
ROBERTSON COUNTY

DRAWN BY:	CJN
CHECKED BY:	JML
PROJECT NO.:	C02921

**CONSTRUCTION DETAILS**

SHEET NUMBER  
**C2.02**



QUALITY/DETENTION POND CROSS SECTION  
NOT TO SCALE

STORM EVENT (yr)	NORTH BASIN - DRAINAGE SUMMARY				
	PRE-DEVELOPMENT		POST-DEVELOPMENT		TOTAL POST DEVELOPED
	AREA=	AREA TO WATER QUALITY POND=	POND BYPASS AREA=	7.663 AC	TOTAL POST DEVELOPED AREA TO BASIN=
2	10.293 AC	2.827 AC	7.663 AC	10.490 AC	10.490 AC
5	7.73	84.5	88.2	88.2	88.2
10	7.6 MIN	7.6 MIN	7.6 MIN	7.6 MIN	7.6 MIN
25	7.6 MIN	7.6 MIN	7.6 MIN	7.6 MIN	7.6 MIN
100	7.6 MIN	7.6 MIN	7.6 MIN	7.6 MIN	7.6 MIN

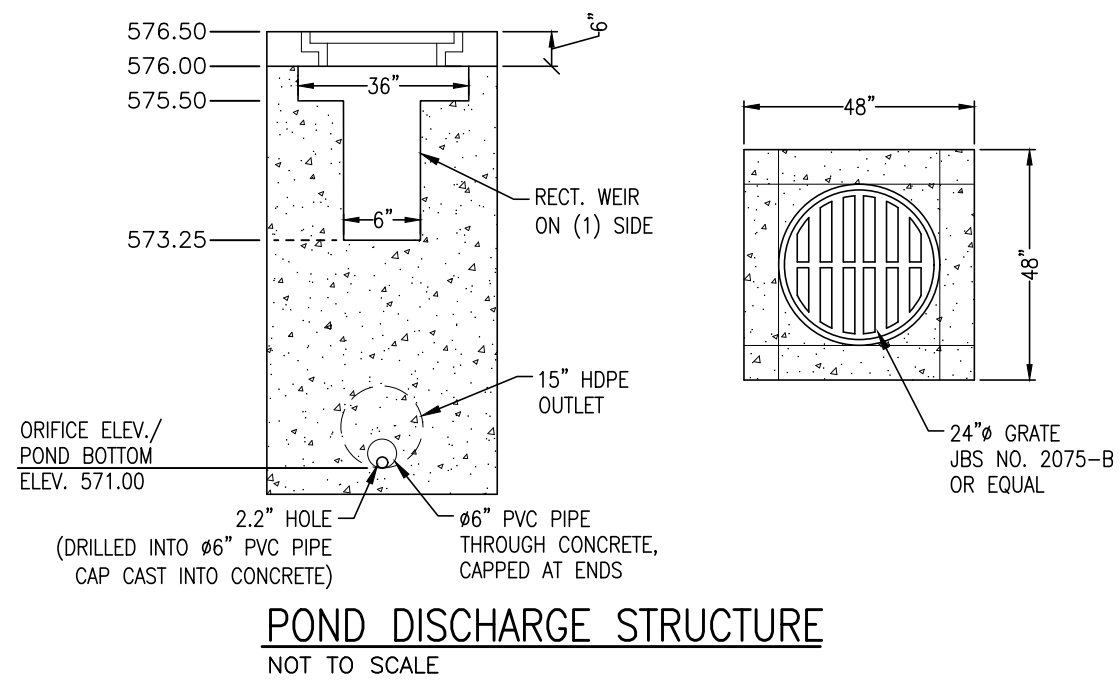
NORTH BASIN DRAINAGE SUMMARY

STORM EVENT (yr)	SOUTH BASIN - DRAINAGE SUMMARY				
	PRE-DEVELOPMENT		POST-DEVELOPMENT		TOTAL POST DEVELOPED
	AREA=	AREA TO UNDERGROUND ADS CHAMBERS=	POND BYPASS AREA=	1.679 AC	TOTAL POST DEVELOPED AREA TO BASIN=
2	2.473 AC	0.794 AC	1.679 AC	2.473 AC	2.473 AC
5	75.7	89.8	78.0	78.0	78.0
10	5.0 MIN	5.0 MIN	5.0 MIN	5.0 MIN	5.0 MIN
25	5.0 MIN	5.0 MIN	5.0 MIN	5.0 MIN	5.0 MIN
100	5.0 MIN	5.0 MIN	5.0 MIN	5.0 MIN	5.0 MIN

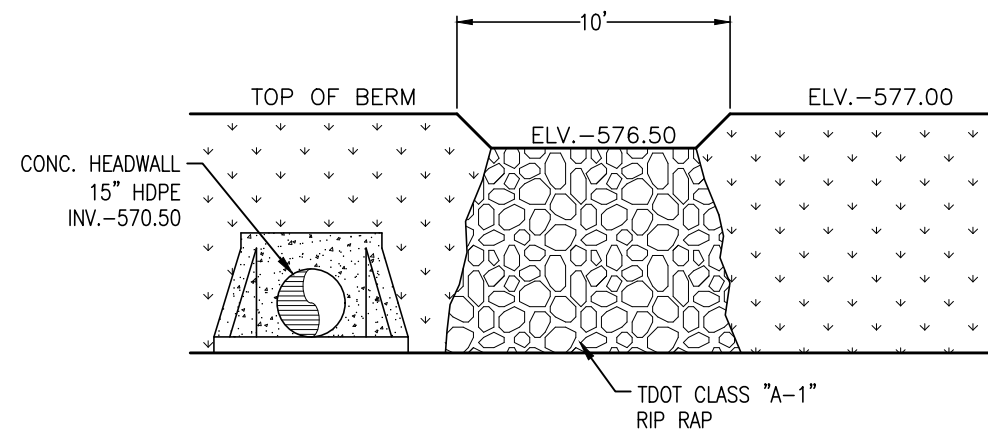
SOUTH BASIN DRAINAGE SUMMARY

ELEVATION	WATER QUALITY/DETENTION POND	
	TOTAL STORAGE (ft³)	TOTAL DISCHARGE (cfs)
571	0	0.00
572	1080	0.12
573	5430	0.18
574	11764	0.36
575	19088	2.14
576	27453	7.07
577	36930	12.09

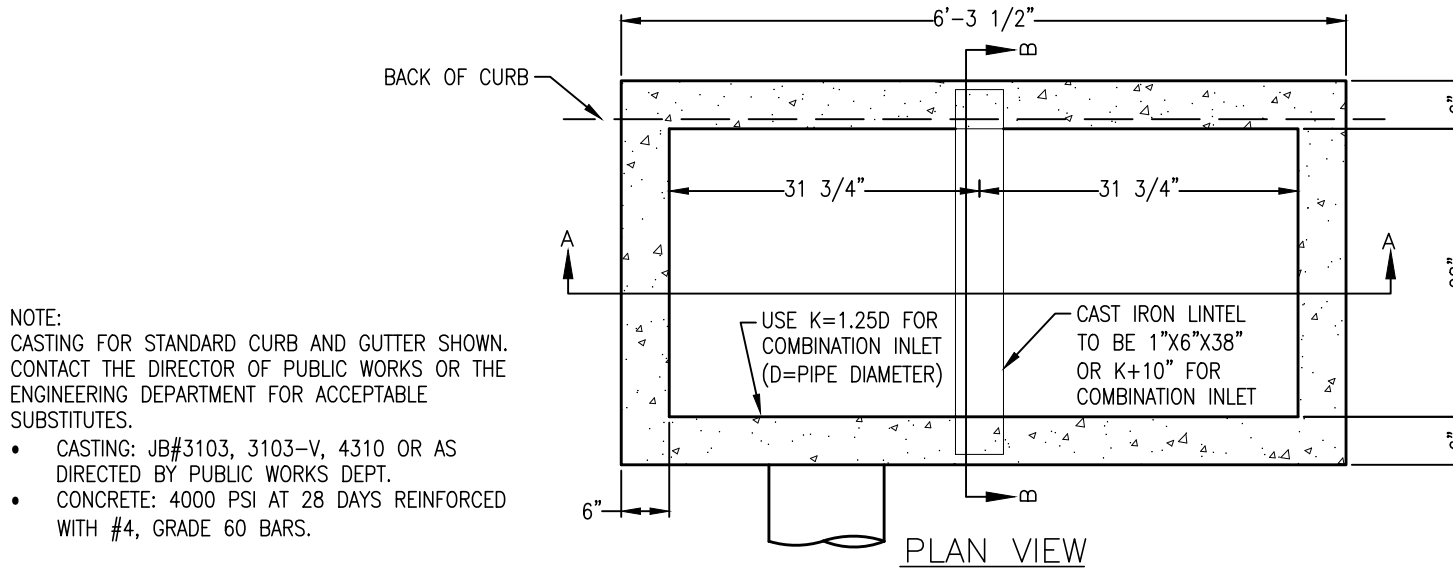
Outlets: 2.2" ORIFICE @ ELEV=571.00  
0.5' RECTANGULAR WEIR @ ELEV=573.25  
3.0' RECTANGULAR WEIR @ ELEV=575.50



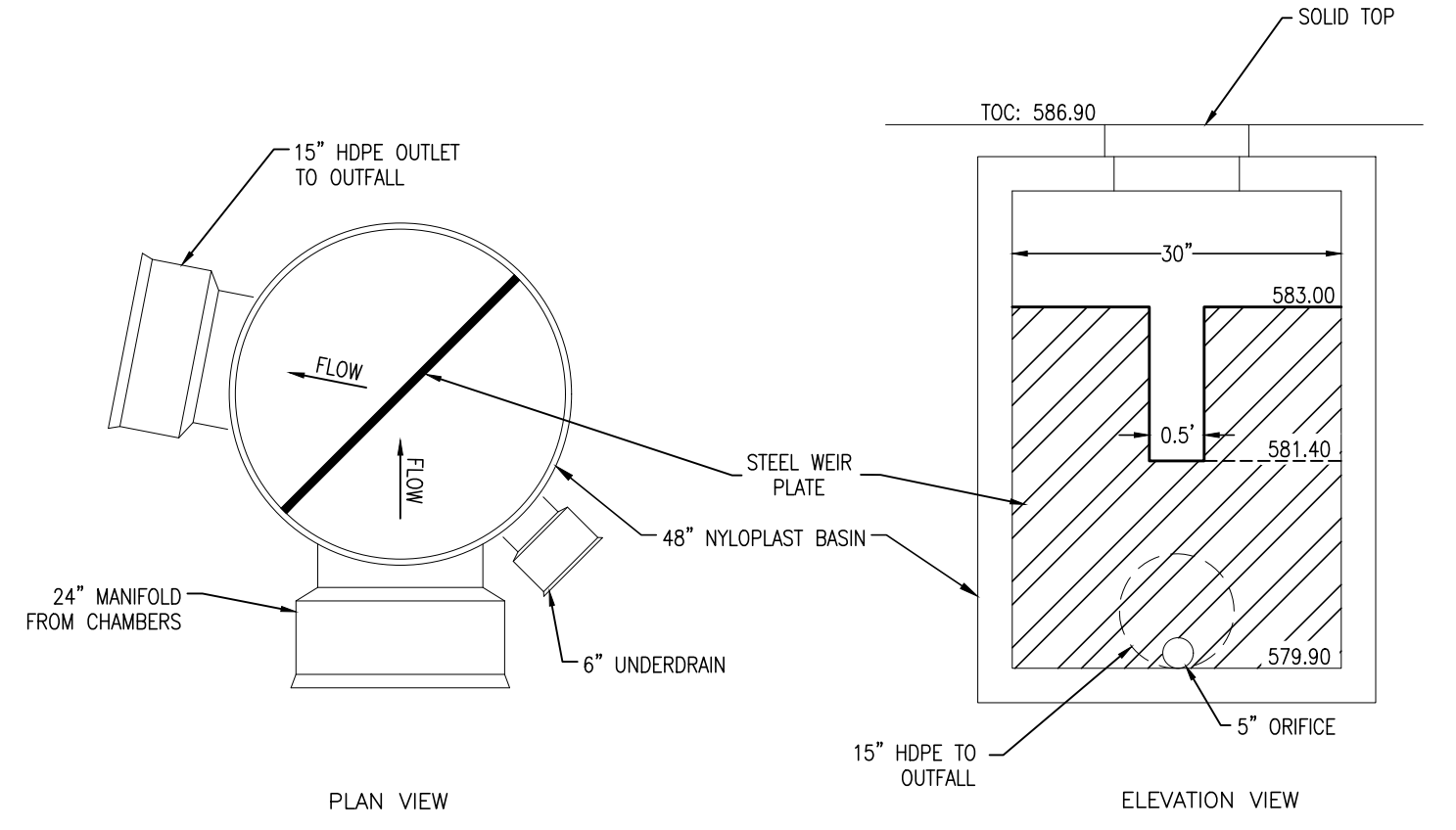
POND DISCHARGE STRUCTURE  
NOT TO SCALE



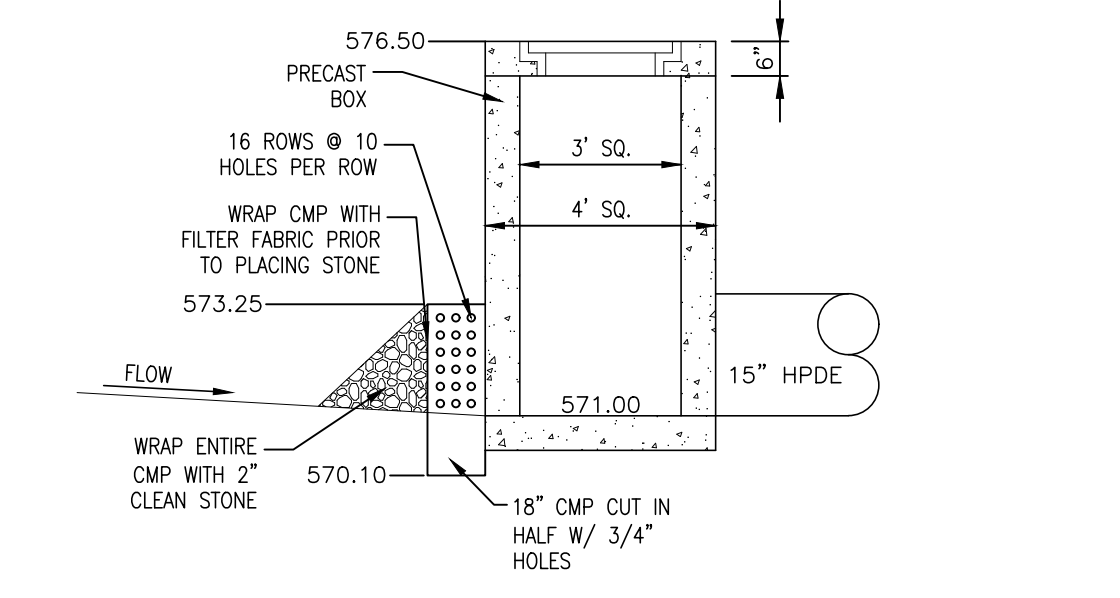
EAST POND SPILLWAY  
NOT TO SCALE



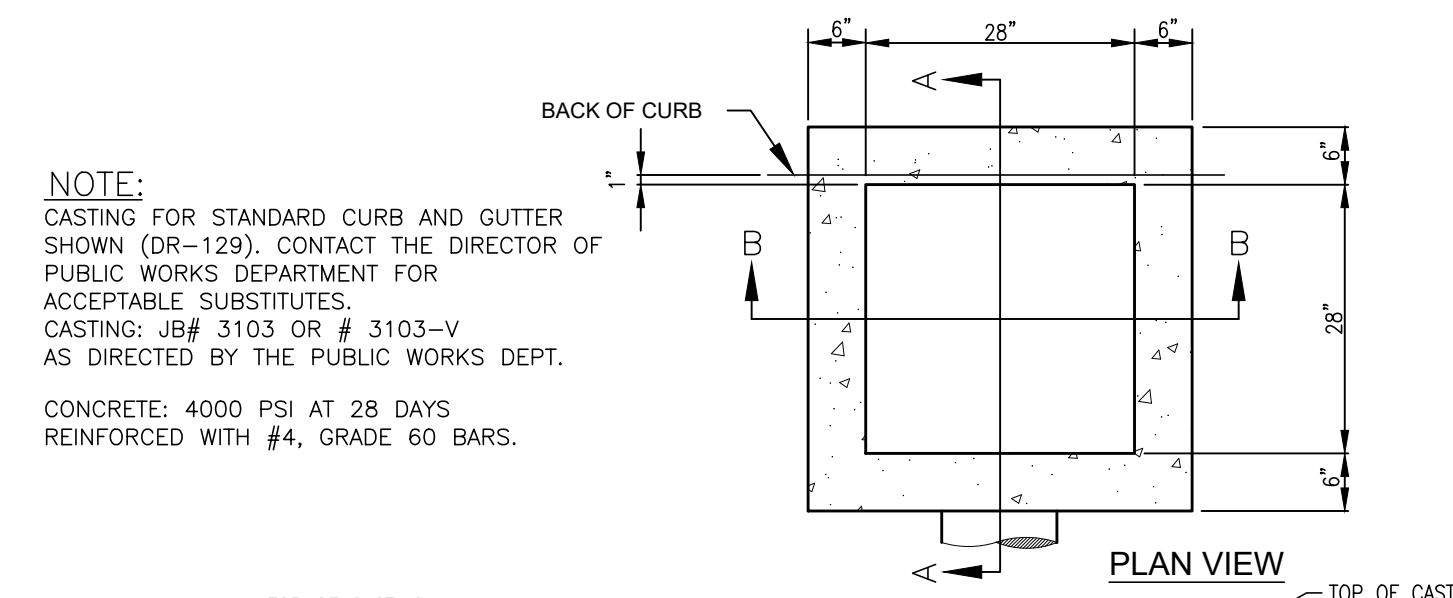
TYPICAL PRECAST DOUBLE INLET  
NOT TO SCALE



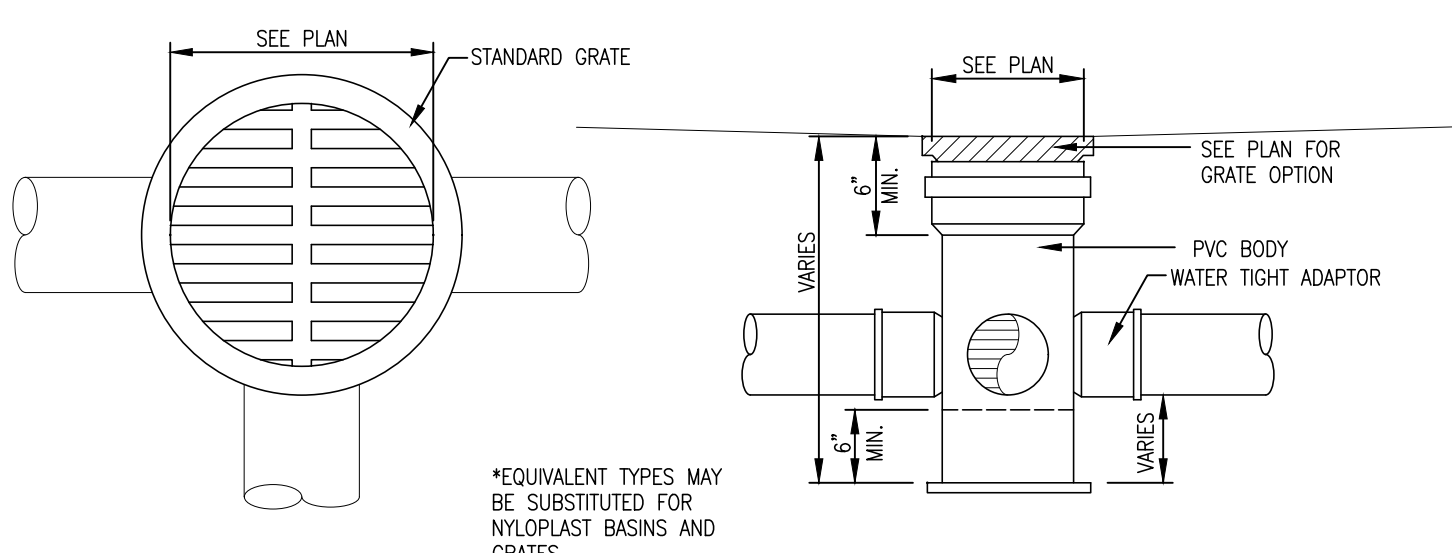
48" NYLOPLAST BASIN W/ INTERNAL WEIR  
(UNDERGROUND CHAMBER OUTLET CONTROL STRUCTURE)  
NOT TO SCALE



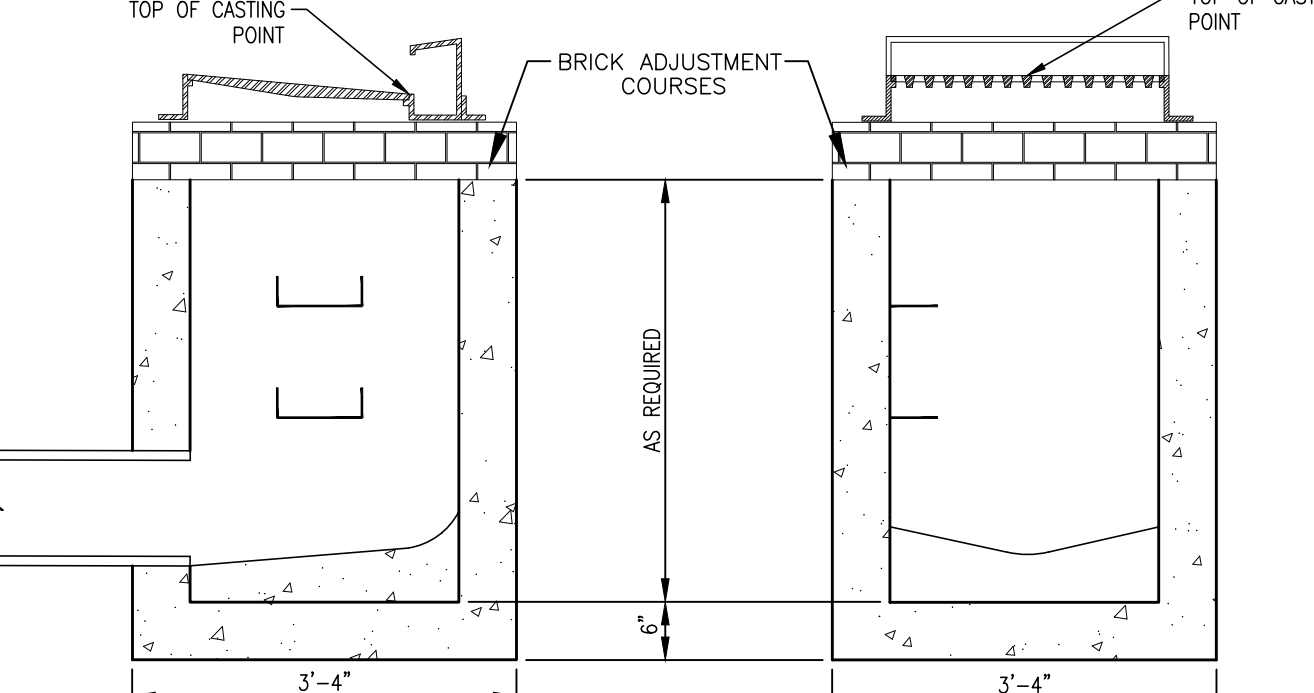
POND OUTLET PROTECTION  
NOT TO SCALE



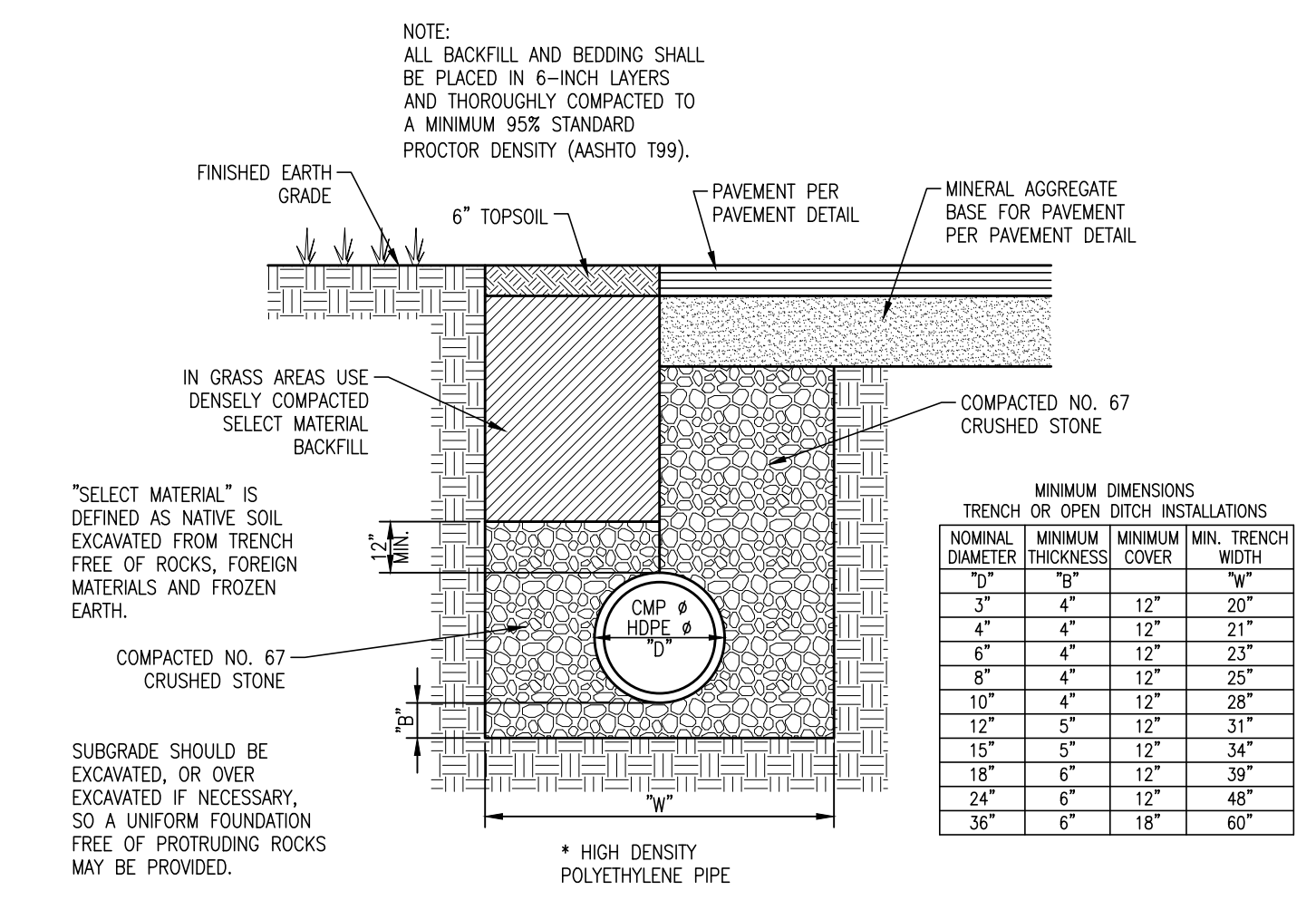
TYPICAL PRECAST SINGLE INLET  
NOT TO SCALE



NYLOPLAST DRAIN BASIN  
NOT TO SCALE



WINGED HEADWALL W/ENERGY DISSIPATORS  
NOT TO SCALE



CMP OR HDPE\* BEDDING (NON-PERFORATED)  
NOT TO SCALE

ADS INLET FILTERS LITE FOR NYLOPLAST BASIN

GRATE SIZE	LITE P/N	BAG DEPTH	BAG CAPACITY (FT³)	FLOW RATE (CFS)
8" DIA	62LITENY08	22"	0.2	0.9
10" DIA	62LITENY10	22"	0.3	1.2
12" DIA	62LITENY12	22"	0.4	1.4
15" DIA	62LITENY15	22"	0.6	1.7
18" DIA	62LITENY18	22"	0.9	2.1
24" DIA	62LITENY24	22"	1.6	2.8
30" DIA	62LITENY30	22"	2.8	3.6

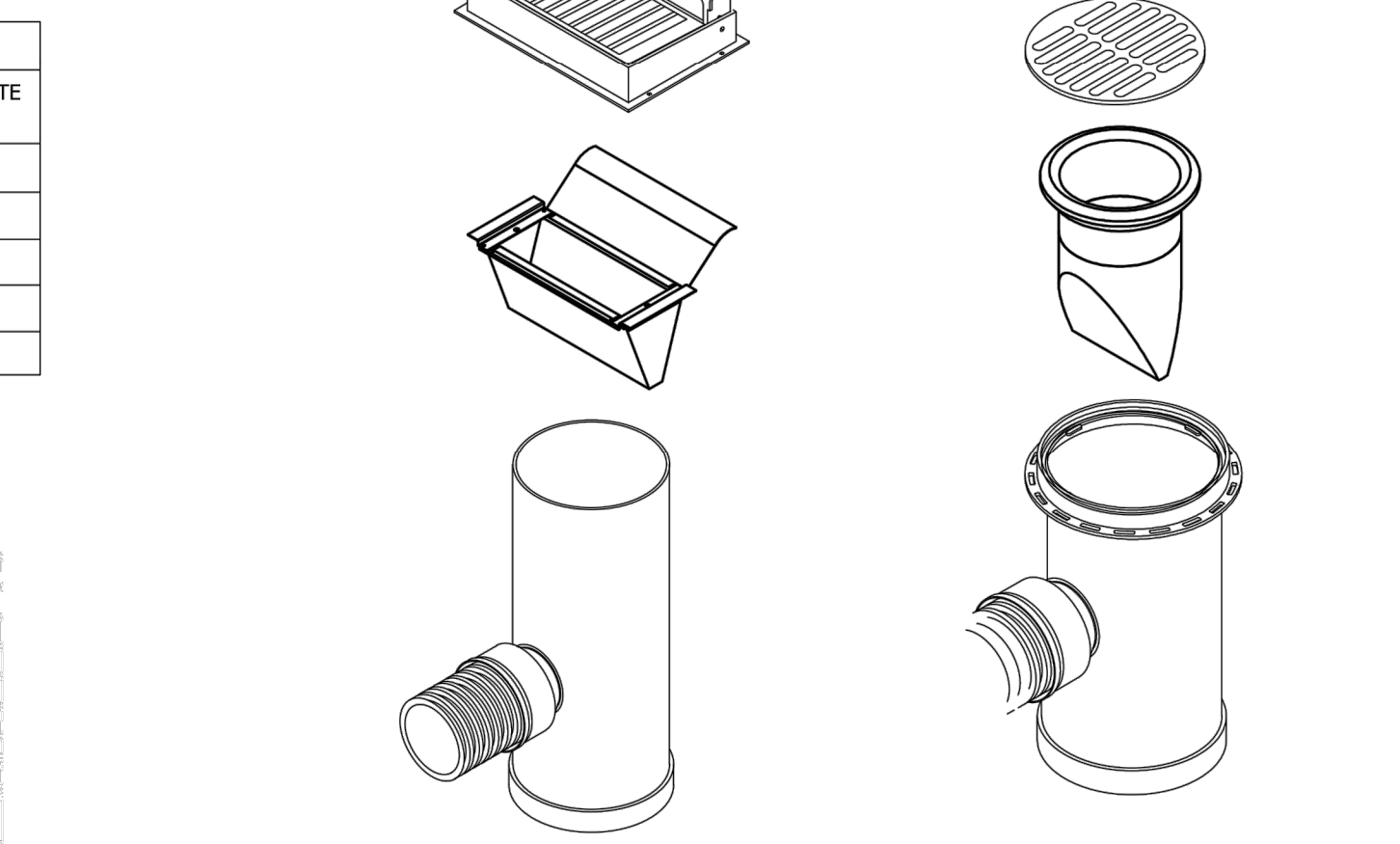
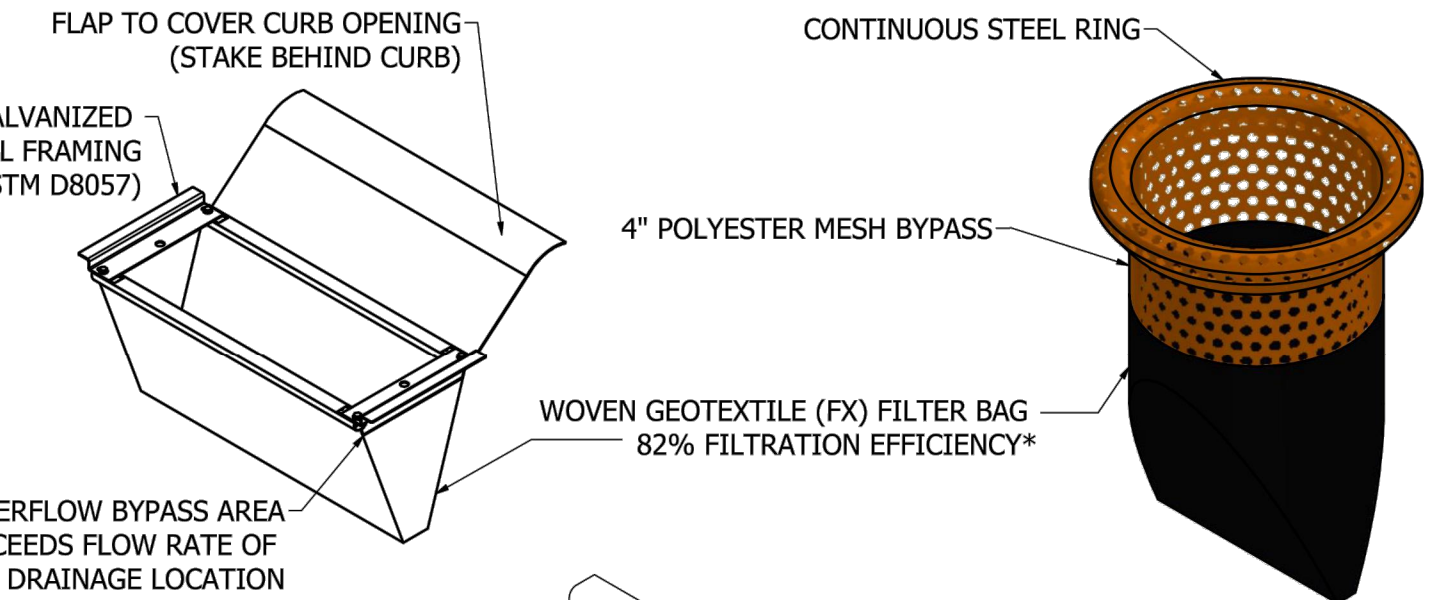
Note: All dome grates will need dome hanger kits supplied by Nyloplast.

GRATE SIZE	LITE P/N	BAG DEPTH	BAG CAPACITY (FT³)	FLOW RATE (CFS)
2' X 2' ROAD & HWY BASIN	62LITENY22	22"	3.1	1.9
2' X 2' CURB INLET BASIN	62LITENYCB22	22"	3.1	1.9
2' X 3' ROAD & HWY BASIN	62LITENY2436	22"	4.7	2.4
2' X 3' CURB INLET BASIN	62LITENYCB2436	22"	4.7	2.4
2' X 3' DUAL CURB INLET	62LITEDUAL2436	22"	9.4	4.8

Note: Road & Highway inlets require special consideration. Contact Flexstorm with basin information to order.

PROPERTY	TEST METHOD	ENGLISH	METRIC
TENSILE STRENGTH	ASTM D4632	350 x 225 Lbs	1557 x 1001 N
ELONGATION	ASTM D4632	20% x 15%	20% x 15%
CBR PUNCTURE	ASTM D6241	1000 Lbs	4448 N
TRAPEZOIDAL TEAR	ASTM D4533	110 x 75 Lbs	489 x 334 N
ENDURANCE			
UV RESISTANCE	ASTM D4355	90%	90%
APPARENT OPENING SIZE (AOS)	ASTM D4751	20 US STD SIEVE	0.850 mm
PERCENT OPEN AREA (POA)	CW-02215 Mod³	17%	17%
PERMITTIVITY	ASTM D4491	1.5 sec⁻¹	1.5 sec⁻¹
WATER FLOW RATE	ASTM D4491	200 gal/min/ft²	8145 l/min/m²

\*Filtration Efficiency Per TRI Environmental ASTM D 7351  
\*\*Meets ASTM D8057 Standard Specifications for Inlet Filters with a Rigid Frame



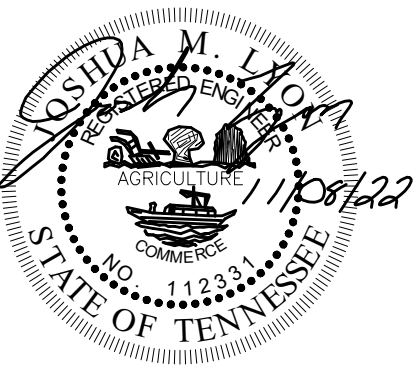
INSTALLATION INSTRUCTIONS

- Remove grate from the drainage structure.
- Clean stone and dirt from ledge/lip of the drainage structure.
- Place Flexstorm filter frame in the clear opening such that the hangers rest firmly on the ledge/lip of the structure.
- Replace the grate and confirm it is not elevated more than 1/8", the thickness of the steel hangers.

PROJ. NO.	DATE	REV.
1/25/2021		
1/26/2021		



NO.	BY	DATE	DESCRIPTION



CONSTRUCTION DOCUMENTS

ROBERTSON COUNTY INNOVATION ACADEMY  
715 5TH AVENUE WEST  
SPRINGFIELD, TN  
ROBERTSON COUNTY

DRAWN BY: CJN  
CHECKED BY: JML  
PROJECT NO.: C02921

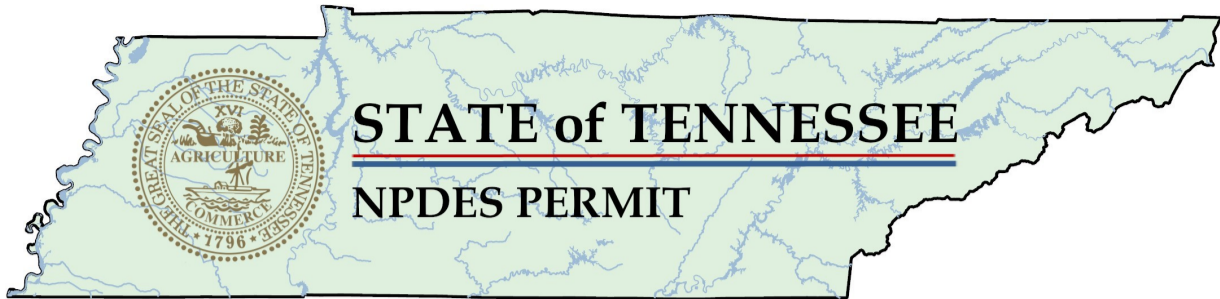
CONSTRUCTION DETAILS

SHEET NUMBER  
C2.03

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**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF WATER RESOURCES**

William R. Snodgrass - Tennessee Tower  
312 Rosa L. Parks Avenue, 11th Floor  
Nashville, Tennessee 37243-1102

**Tracking No. TNR246407**

Notice of Coverage (NOC) under the General NPDES Permit for  
**STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES (CGP)**

Under authority of the Tennessee Water Quality Control Act of 1977 (T.C.A. 69-3-101 et seq.) and the delegation of authority from the United States Environmental Protection Agency under the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 (33 U.S.C. 1251, et seq.) in accordance with effluent limitations, monitoring requirements and other conditions set forth herein. CGP requirements and permit overview are located [here](#). Your coverage under the CGP shall be terminated upon receipt of [Notice of Termination \(NOT\)](#).

Construction Project:	<b>Robertson County Schools - Innovation Academy Parking Lots</b>
Area of Disturbance:	<b>4.82 acres</b>
Master Tracking Number:	<b>TNR246407</b>
Permittee Name:	<b>Robertson County Schools</b>
Project Name:	<b>Robertson County Schools - Innovation Academy Parking Lots</b>
is authorized to discharge:	stormwater associated with construction activities
from facility location:	<b>715 5th Ave West, Springfield, TN 37172, Robertson County</b>
to receiving waters named:	<b>Sulphur Fork</b>
Effective date:	<b>12/16/2022</b>
Expiration date:	<b>09/30/2026</b>
Contractors:	<b>no contractor identified</b>

No Exceptional Tennessee Waters were identified by TDEC.  
CN-0759

RD A 2366

Print

NON-COLLUSION AFFIDAVIT

The agent of the bidding firm hereby certifies to the best of his/her knowledge and belief that this bid proposal to Robertson County, Tennessee has not been prepared in collusion with any other seller of similar products. The agent also certifies that the prices, terms and conditions of said bid proposal have not been communicated by the undersigned, nor by any employee or agent of the bidding firm, to any other seller of similar products and will not be communicated to any such seller prior to the official opening of said bid. The agent further states that no official or employee of Robertson County Government has promised any personal financial or other beneficial interest, either directly or indirectly in order to influence award of this bid.

---

**Authorized Signature, Title (Owner/ Corporate Officer)** **Date**

**Printed Name:** \_\_\_\_\_

---

**Company Name**

---

**Mailing Address**

---

**Telephone No.** **Fax No.**

**Contact preferred email address:** \_\_\_\_\_

DRUG-FREE WORKPLACE AFFIDAVIT

The undersigned, principal officer of \_\_\_\_\_, an employer of five (5) or more employees contracting with Robertson County, Tennessee government to provide construction services, hereby states under oath as follows:

1. The undersigned is a principal officer of \_\_\_\_\_ (hereinafter referred to as the "Company"), and is duly authorized to execute this Affidavit on behalf of the Company.
  
2. The Company submits this Affidavit pursuant to T.C.A. § 50-9-113, which requires each employer with no less than five (5) employees receiving pay who contracts with the state or any local government to provide construction services to submit an affidavit stating that such employer has a drug-free workplace program that complies with Title 50, Chapter 9, of the *Tennessee Code Annotated*.
  
3. The Company is in compliance with T.C.A. § 50-9-113.

---

**Authorized Signature, Title (Owner/ Corporate Officer)** **Date**

**Printed Name:** \_\_\_\_\_

---

**Company Name**

---

**Mailing Address**

---

**Telephone No.**

**Fax No.**

**Witness signature :** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Witness printed name:** \_\_\_\_\_

Robertson County, Tennessee  
Letter of Compliance

Successful bidder must comply with and provide this Letter of Compliance.

Amendments to the Tennessee Code Annotated Section 49-5-413 may require employers doing business with the Robertson County Board of Education to have their employees' criminal history records checked. The law provides that no employer or their employee(s):

1. Shall come in direct contact with school children, children in a childcare program; AND/OR
2. Shall enter the grounds of a school or childcare center operated by the Robertson County Board of Education when children are present without this compliance letter on file.

Your signature below indicates that you are fully aware of these requirements and that if applicable to your business relationship with the Robertson County Board of Education: (1) you have fully complied with the investigation required; and (2) you and any of your employees to which this applies are qualified to be in contact with the children and/or on school grounds as set forth by the Statute.

Further, you agree to hold Robertson County and/or its Board of Education harmless in all respects from any failure on your part to follow these requirements.

---

**Authorized Signature, Title (Owner/Corporate Officer)** **Date**

**Printed Name:** \_\_\_\_\_

---

**Company Name**

---

**Mailing Address**

---

**Telephone No.** **Fax No.**

**Contact preferred email address:** \_\_\_\_\_

# STATE OF TENNESSEE IRAN DIVESTMENT ACT AGREEMENT

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to Tennessee Code Annotated § 12-12-106.

Tenn. Code Ann. § 12-12-106 requires the chief procurement officer to publish, using credible information freely available to the public, a list of persons it determines engage in investment activities in Iran, as described in § 12-12-105.

While inclusion on this list would make a person ineligible to contract with the state of Tennessee, if a person ceases its engagement in investment activities in Iran, it may be removed from the list.

If you feel as though you have been erroneously included on this list please contact the Central Procurement Office at [CPO.Website@tn.gov](mailto:CPO.Website@tn.gov).

---

COMPANY NAME

---

DATE

---

REPRESENTATIVE

---

TITLE

**Non-Boycott of Israel Certification**

The Contractor certifies that it is not currently engaged in, and will not for the duration of the contract engage in, a boycott of Israel as defined by Tenn. Code Ann. § 12-4-119. This provision shall not apply to contracts with a total value of less than two hundred fifty thousand dollars (\$250,000) or to contractors with less than ten (10) employees.

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**BID #1526 Form**  
**Robertson County Schools**  
**June 29, 2023 at 10:00 A.M.**

Robertson County Schools is accepting sealed bid proposals for the following:

**Earthwork and Asphalt Paving for Innovation Academy**

Please provide prices based on the attached specifications.

LUMP SUM PRICE FOR PROJECT AT INNOVATION ACADEMY:

\$ \_\_\_\_\_

\_\_\_\_\_  
**Authorized Signature, Title (Owner/ Corporate Officer)**

\_\_\_\_\_  
**Date**

**Printed Name:** \_\_\_\_\_

\_\_\_\_\_  
**Company Name**

\_\_\_\_\_  
**Mailing Address**

\_\_\_\_\_  
**Telephone No.**

\_\_\_\_\_  
**Fax No.**

**Contact preferred email address:** \_\_\_\_\_