PROJECT MANUAL

FOR

SHELLY PARK

201 SOUTH FRANKLIN STREET

MANCHESTER, IOWA 52057

DATE: 1-03-23

PREPARED BY: LARRY KURTZ

ALIGN ARCHITECTURE AND PLANNING

END OF SECTION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Identification of project team members and their contact information.

1.02 OWNER:

A. Name: City Of Manchester, Iowa
   1. 208 East Main Street.
   2. City: Manchester.
   3. Zip Code: 52057.
   4. Telephone: 563-927-1116.

B. Primary Contact: All correspondence from the Contractor to the Architect will be through this party, unless alternate arrangements are mutually agreed upon at preconstruction meeting.
   1. Title: Project Architect.
   2. Name: Larry Kurtz.
   3. Email: lkurtz@alignplc.com.

END OF SECTION

PROCUREMENT AND CONTRACTING REQUIREMENTS

SPECIFICATIONS

END OF SECTION

FROM:

1.01 THE City Of Manchester (HEREINAFTER REFERRED TO AS Owner):

A. City of Manchester, Iowa

B. Address:
208 East Main Street
Manchester, Iowa, 52057

1.02 Align Architecture and planning (HEREINAFTER REFERRED TO AS Architect):

A. Align Architecture and Planning

B. Address:
327 E. 4th Street #204
Waterloo, Iowa
319, 233 1163

1.03 DATE: 12-5-2022

1.04 TO: POTENTIAL BIDDERS

A. Your firm is invited to submit an offer under seal to Owner for construction of a facility located at:
Manchester City all @ 208 East Main St
Manchester, IowaProject Location ZIP 52057

Before 2 pm local standard time on the 8th day of February, 2023, for:

B. Project: Shelly Park Renovation

C. Bid Documents for a Stipulated Sum contract may be obtained from the office of the Owner free of charge upon receipt of a refundable deposit, by cash, in the amount of $20 for one set.

1.05 SIGNATURE

A. By: _____
1. Signed: _____
2. (Authorized signing officer)

END OF SECTION

SUMMARY

1.01 RELATED DOCUMENTS

A. Document 001113 - Advertisement for Bids.

B. Document 004100 - Bid Form.

C. Document 004301 - Bid Form Supplements Cover Sheet.

D. Document 004322 - Unit Prices Form.

E. Document 004373 - Proposed Schedule of Values Form.

F. Document 004328 - Items Eligible For Tax Rebate Form.

G. Document 007300 - Supplementary Conditions:

INVITATION

2.01 BID SUBMISSION

A. Bids signed and under seal, executed, and dated will be received at the office of the Owner at 2 p.m. p.m. local standard time on Wed Feb 8th, 2023

2.02 INTENT

A. The intent of this Bid request is to obtain an offer to perform work to complete project named Shelly Park for a Stipulated Sum contract, in accordance with Contract Documents.

2.03 WORK IDENTIFIED IN THE CONTRACT DOCUMENTS

A. Project Location:
Project Location Address 1.201 South Franklin Street
Manchester, IowaProject Location ZIP .

2.04 CONTRACT TIME

A. Perform the Work in 120 calendar days. The bidder may suggest a revision to the Contract Time with a specific adjustment to the Bid Amount.

SITE ASSESSMENT

3.01 SITE EXAMINATION

A. Examine the project site before submitting a bid.

QUALIFICATIONS

4.01 EVIDENCE OF QUALIFICATIONS

4.02 SUBCONTRACTORS/SUPPLIERS/OTHERS

A. Owner reserves the right to reject a proposed subcontractor for reasonable cause.

BID SUBMISSION

5.01 SUBMISSION PROCEDURE

A. Bidders shall be solely responsible for the delivery of their bids in the manner and time prescribed.

B. An abstract summary of submitted bids will be made available to all bidders following bid opening.

5.02 BID INELIGIBILITY

A. Bids that are unsigned, improperly signed or sealed, conditional, illegible, obscure, contain arithmetical errors, erasures, alterations, or irregularities of any kind, may at the discretion of the Owner, be declared unacceptable.

B. Bid Forms, Appendices, and enclosures that are improperly prepared may, at the discretion of Owner, be declared unacceptable.

BID ENCLOSURES/REQUIREMENTS

6.01 PERFORMANCE ASSURANCE

A. Accepted Bidder: Provide a Performance bond as described in 007300 - Supplementary Conditions.

B. Include the cost of performance assurance bonds in the Bid Amount.

6.02 INSURANCE

6.03 BID FORM REQUIREMENTS

A. Complete all requested information in the Bid Form and Appendices.

B. Taxes: Refer to Supplementary Conditions for inclusion of taxes, procedures for tax rebate claims, products that are tax exempt, and [_____].

6.04 BID FORM SIGNATURE

A. The Bid Form shall be signed by the bidder, as follows:

1. Sole Proprietorship: Signature of sole proprietor in the presence of a witness who will also sign. Insert the words "Sole Proprietor" under the signature. Affix seal.
2. Partnership: Signature of all partners in the presence of a witness who will also sign. Insert the word "Partner" under each signature. Affix seal to each signature.
3. Corporation: Signature of a duly authorized signing officer(s) in their normal signatures. Insert the officer's capacity in which the signing officer acts, under each signature. Affix the corporate seal. If the bid is signed by officials other than the president and secretary of the company, or the president/secretary/treasurer of the company, a copy of the by-law resolution of their board of directors authorizing them to do so, must also be submitted with the Bid Form in the bid envelope.
4. Joint Venture: Each party of the joint venture shall execute the Bid Form under their respective seals in a manner appropriate to such party as described above, similar to the requirements of a Partnership.

6.05 ADDITIONAL BID INFORMATION

A. The lowest bidder will be requested to complete the Supplements To Bid Forms within 24 hours after submission of bids.

B. Submit the following Supplements concurrent with bid submission:
1. Document 004336 - Proposed Subcontractors Form: Include the names of all Subcontractors and the portions of the Work they will perform.
2. Document 004322 - Unit Prices Form: Include a listing of unit prices specifically requested by Contract Documents.

OFFER ACCEPTANCE/REJECTION

7.01 DURATION OF OFFER

A. Bids shall remain open to acceptance and shall be irrevocable for a period of sixty (60) days after the bid closing date.

7.02 ACCEPTANCE OF OFFER

A. Owner reserves the right to accept or reject any or all offers.

END OF SECTION

THE PROJECT AND THE PARTIES

1.01 TO:

A. CITY OF MANCHESTER, IOWA
Shelly Park Renovation @ 201 South Franklin Street
Manchester, IowaProject Location ZIP

1.02 SUBMITTED BY: (Bidder to enter name and address)

A. Bidder's Full Name _____
1. Address _____
2. City, State, Zip_____

1.03 OFFER

A. Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Bid Documents prepared by ALIGN ARCHITECTURE AND PLANNING for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:

B. _____
_____ dollars
($_____), in lawful money of the United States of America.

C. We have included the required security deposit as required by the Instruction to Bidders.

D. We have included the required performance assurance bonds in the Bid Amount as required by the Instructions to Bidders.
1. The cost of the required performance assurance bonds is _ _____ _dollars ($_____), in lawful money of the United States of America.

1.04 ACCEPTANCE

A. This offer shall be open to acceptance and is irrevocable for thirty days from the bid closing date.

B. If this bid is accepted by Owner within the time period stated above, we will:
1. Execute the Agreement within seven days of receipt of Notice of Award.
2. Furnish the required bonds within seven days of receipt of Notice of Award.
3. Commence work within To be determined days after written Notice to Proceed of this bid.

C. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

1.05 CONTRACT TIME

A. If this Bid is accepted, we will:

B. Complete the Work by 5-31-2023.

1.06 ADDENDA

1.07 BID FORM SIGNATURE(S)

A. The Corporate Seal of

B. _____

C. (Bidder - print the full name of your firm)

D. was hereunto affixed in the presence of:

E. _____

F. (Authorized signing officer, Title)

G. (Seal)

H. _____

I. (Authorized signing officer, Title)

1.08 If the Bid is a joint venture or partnership, add additional forms of execution for each member of the joint venture in the appropriate form or forms as above.

END OF SECTION

PARTICULARS

THE CITY WILL PROVIDE A FORM FOR USE BY CONTRACTOR TO USE IN DESCRIBING PROJECT ITEMS THAT ARE NOT TAXED.

END OF SECTION

PART 1 GENERAL

1.01 PROJECT

A. Project Name: Shelly Park Renovation

B. Owner's Name: City of Manchester, Iowa.

C. Architect's Name: Align Architecture and Planning.

D. The Project consists of the.[DEMOLITION OF EXISTING CONCRETE , REGRADING OF THE SITE. INSTALLATION OF NEW CONCRETE TRAIL, LARGE STONE RETAINING WALLS AND FEATURES, FINISH GRADING AND PLANTING. REMOVAL OF AND RELOCATION OF EXISTING WATER AND ELECTRICAL LINES AND REINSTALLATION OF CONDUITS FOR FUTURE USE AND PLANTING.

1.02 CONTRACT DESCRIPTION

A. Contract Type: A single prime contract based on a Stipulated Price as described in Document 005200 - Agreement Form.

1.03 DESCRIPTION OF ALTERATIONS WORK

A. Plumbing: DISCONNECT EXISTING SYSTEM..

B. Electrical Power and Lighting: DISSCONNECT EXISTING SYSTEM.

C. Owner will remove the following items before start of work:
1. CONCRETE RETAINNING WALLS.
2. TREES TO BE REMOVED.
3. SIGNAGE .
4. DRINKING FOUNTAIN.
5. ELECTRICAL METER DISCONNECT

1.04 OWNER OCCUPANCY

A. Owner intends to occupy the Project upon Substantial Completion. PARK WILL BE CLOSED DURING CONSTRUCTION PERIOD BY CONTRACTOR FENCING. RIVERSIDE WALKWAY TO REMAIN OPEN DURING CONSTRUCTION.

END OF SECTION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Procedures for preparation and submittal of applications for progress payments.

1.02 RELATED REQUIREMENTS

A. Section 005200 - Agreement Form: Contract Sum, retainages, payment period, monetary values of unit prices.

B. Section 007200 - General Conditions: Additional requirements for progress payments, final payment, changes in the Work.

1.03 SCHEDULE OF VALUES

A. Use Schedule of Values Form: To delineate work and determine progress for payment.

B. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit draft to Architect for approval.

C. Forms filled out by hand will not be accepted.

1.04 APPLICATIONS FOR PROGRESS PAYMENTS

A. Payment Period: Submit at intervals stipulated in the Agreement.

B. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit sample to Architect for approval.

C. Forms filled out by hand will not be accepted.

D. Execute certification by signature of authorized officer.

E. Submit one electronic and three hard-copies of each Application for Payment.

END OF SECTION

PART 1 GENERAL

1.01 PROJECT COORDINATOR

A. Cooperate with the Project Coordinator in allocation of mobilization areas of site; for field offices and sheds, for [_____] access, traffic, and parking facilities.

B. During construction, coordinate use of site and facilities through the Project Coordinator.

C. Comply with Project Coordinator's procedures for intra-project communications; submittals, reports and records, schedules, coordination drawings, and recommendations; and resolution of ambiguities and conflicts.

D. Comply with instructions of the Project Coordinator for use of temporary utilities and construction facilities. Responsibility for providing temporary utilities and construction facilities is identified in Section 011000 - Summary.

E. Coordinate field engineering and layout work under instructions of the Project Coordinator.

F. Make the following types of submittals to Architect through the Project Coordinator:
   1. Stone Quarry selection and delivery .
   2. Precast steps.
   3. Metal Handrail.
   4. Concrete mix design.
   5. Plumbing and Electrical items

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRECONSTRUCTION MEETING

A. Attendance Required:
   1. Owner.
   2. Architect.
   3. Contractor.

B. Agenda:
   1. Execution of Owner-Contractor Agreement.
   2. Submission of executed bonds and insurance certificates.
   3. Distribution of Contract Documents.
   4. Submission of list of subcontractors, list of products, schedule of values, and progress schedule.
   5. Designation of personnel representing the parties to Contract, Contractor and Architect.
   6. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
   7. Scheduling.

3.02 SITE MOBILIZATION MEETING

A. Attendance Required:
   1. Contractor.
   2. Owner.
   3. Architect.
   4. Contractor's superintendent.
   5. Major subcontractors.

B. Agenda:
   1. Use of premises by Owner and Contractor.
   2. Owner's requirements.
   3. Construction facilities and controls provided by Owner.
   4. Temporary utilities provided by Owner.
   5. Survey and building layout.
   6. Security and housekeeping procedures.
   7. Schedules.
   8. Application for payment procedures.
   9. Procedures for testing.
   10. Procedures for maintaining record documents.
   11. Requirements for start-up of equipment.
   12. Inspection and acceptance of equipment put into service during construction period.

C. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

3.03 CONSTRUCTION PROGRESS SCHEDULE

A. If preliminary schedule requires revision after review, submit revised schedule within 10 days.

B. Within 20 days after review of preliminary schedule, submit draft of proposed complete schedule for review.
   1. Include written certification that major contractors have reviewed and accepted proposed schedule.

C. Within 10 days after joint review, submit complete schedule.

D. Submit updated schedule with each Application for Payment.

END OF SECTION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Prevention of erosion due to construction activities.

B. Prevention of sedimentation of waterways, open drainage ways, and storm and sanitary sewers due to construction activities.

C. Restoration of areas eroded due to insufficient preventive measures.

D. Compensation of Owner for fines levied by authorities having jurisdiction due to non-compliance by Contractor.

1.02 RELATED REQUIREMENTS

A. Section 311000 - Site Clearing: Limits on clearing; disposition of vegetative clearing debris.

B. Section 312200 - Grading: Temporary and permanent grade changes for erosion control.

C. Section 321123 - Aggregate Base Courses: Temporary and permanent roadways.

1.03 REFERENCE STANDARDS

A. ASTM D4355/D4355M - Standard Test Method for Deterioration of Geotextiles by Exposure to Light, Moisture, and Heat in a Xenon Arc-Type Apparatus 2021.

B. ASTM D4491/D4491M - Standard Test Methods for Water Permeability of Geotextiles by Permittivity 2022.

C. ASTM D4533/D4533M - Standard Test Method for Trapezoid Tearing Strength of Geotextiles 2015.

D. ASTM D4632/D4632M - Standard Test Method for Grab Breaking Load and Elongation of Geotextiles 2015a.

E. ASTM D4751 - Standard Test Methods for Determining Apparent Opening Size of a Geotextile 2021a.

F. ASTM D4873/D4873M - Standard Guide for Identification, Storage, and Handling of Geosynthetic Rolls and Samples 2017 (Reapproved 2021).

1.04 PERFORMANCE REQUIREMENTS

A. Also comply with all more stringent requirements of SWPPP Erosion and Sedimentation Control Manual.

B. Develop and follow an Erosion and Sedimentation Prevention Plan and submit periodic inspection reports.

C. Do not begin clearing, grading, or other work involving disturbance of ground surface cover until applicable permits have been obtained; furnish all documentation required to obtain applicable permits.

D. Timing: Put preventive measures in place as soon as possible after disturbance of surface cover and before precipitation occurs.

E. Storm Water Runoff: Control increased storm water runoff due to disturbance of surface cover due to construction activities for this project.
   1. Prevent runoff into storm and sanitary sewer systems, including open drainage channels, in excess of actual capacity or amount allowed by authorities having jurisdiction, whichever is less.
   2. Anticipate runoff volume due to the most extreme short term and 24-hour rainfall events that might occur in 25 years.

F. Erosion On Site: Minimize wind, water, and vehicular erosion of soil on project site due to construction activities for this project.
   1. Control movement of sediment and soil from temporary stockpiles of soil.
   2. Prevent development of ruts due to equipment and vehicular traffic.
   3. If erosion occurs due to non-compliance with these requirements, restore eroded areas at no cost to Owner.

G. Sedimentation of Waterways On Site: Prevent sedimentation of waterways on the project site, including rivers, streams, lakes, ponds, open drainage ways, storm sewers, and sanitary sewers.
   1. If sedimentation occurs, install or correct preventive measures immediately at no cost to Owner; remove deposited sediments; comply with requirements of authorities having jurisdiction.

H. Maintenance: Maintain temporary preventive measures until permanent measures have been established.

1.05 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Erosion and Sedimentation Control Plan:
   1. Include:
      a. Site plan identifying soils and vegetation, existing erosion problems, and areas vulnerable to erosion due to topography, soils, vegetation, or drainage.
      b. Site plan showing grading; new improvements; temporary roads, traffic accesses, and other temporary construction; and proposed preventive measures.
      c. Other information required by law.
      d. Format required by law is acceptable, provided any additional information specified is also included.
   2. Obtain the approval of the Plan by authorities having jurisdiction.
   3. Obtain the approval of the Plan by Owner.

C. Certificate: Mill certificate for silt fence fabric attesting that fabric and factory seams comply with specified requirements, signed by legally authorized official of manufacturer; indicate actual minimum average roll values; identify fabric by roll identification numbers.

D. Inspection Reports: Submit report of each inspection; identify each preventive measure, indicate condition, and specify maintenance or repair required and accomplished.

PART 2 PRODUCTS

2.01 MATERIALS

A. Mulch: Use one of the following:

B. Silt Fence Fabric: Polypropylene geotextile resistant to common soil chemicals, mildew, and insects; non-biodegradable; in longest lengths possible; fabric including seams with the following minimum average roll lengths:
   1. Average Opening Size: 30 U.S. Std. Sieve (0.600 mm), maximum, when tested in accordance with ASTM D4751.
   2. Permittivity: 0.05 sec^-1, minimum, when tested in accordance with ASTM D4491/D4491M.
   3. Ultraviolet Resistance: Retaining at least 70 percent of tensile strength, when tested in accordance with ASTM D4355/D4355M after 500 hours exposure.
   4. Tensile Strength: 100 pounds-force (450 N), minimum, in cross-machine direction; 124 pounds-force (550 N), minimum, in machine direction; when tested in accordance with ASTM D4632/D4632M.
   5. Elongation: 15 to 30 percent, when tested in accordance with ASTM D4632/D4632M.
   6. Tear Strength: 55 pounds-force (245 N), minimum, when tested in accordance with ASTM D4533/D4533M.
   7. Color: Manufacturer's standard, with embedment and fastener lines preprinted.

C. Silt Fence Posts: One of the following, minimum 5 feet (1500 mm) long:

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine site and identify existing features that contribute to erosion resistance; maintain such existing features to greatest extent possible.

3.02 PREPARATION

A. Schedule work so that soil surfaces are left exposed for the minimum amount of time.

3.03 SCOPE OF PREVENTIVE MEASURES

A. In all cases, if permanent erosion resistant measures have been installed temporary preventive measures are not required.

B. Linear Sediment Barriers: Made of silt fences.
   1. Provide linear sediment barriers:
      a. Along downhill perimeter edge of disturbed areas, including soil stockpiles.

C. Mulching: Use only for areas that may be subjected to erosion for less than 6 months.

3.04 INSTALLATION

A. Silt Fences:

1. Store and handle fabric in accordance with ASTM D4873/D4873M.
2. Where slope gradient is steeper than 3:1 or barriers will be in place over 6 months, use nominal 28 inch (710 mm) high barriers, minimum 48 inch (1220 mm) long posts spaced at 6 feet (1830 mm) maximum, with fabric embedded at least 6 inches (150 mm) in ground.
3. Where slope gradient is steeper than 3:1 and vertical height of slope between barriers is more than 20 feet (6 m), use nominal 32 inch (810 mm) high barriers with woven wire reinforcement and steel posts spaced at 4 feet (1220 mm) maximum, with fabric embedded at least 6 inches (150 mm) in ground.
4. Install with top of fabric at nominal height and embedment as specified.
5. Do not splice fabric width; minimize splices in fabric length; splice at post only, overlapping at least 18 inches (460 mm), with extra post.
6. Wherever runoff will flow around end of barrier or over the top, provide temporary splash pad or other outlet protection; at such outlets in the run of the barrier, make barrier not more than 12 inches (300 mm) high with post spacing not more than 4 feet (1220 mm).

3.05 MAINTENANCE

A. Inspect preventive measures weekly, within 24 hours after the end of any storm that produces 0.5 inches (13 mm) or more rainfall at the project site, and daily during prolonged rainfall.

B. Repair deficiencies immediately.

C. Silt Fences:
1. Promptly replace fabric that deteriorates unless need for fence has passed.
2. Remove silt deposits that exceed one-third of the height of the fence.
3. Repair fences that are undercut by runoff or otherwise damaged, whether by runoff or other causes.

3.06 CLEAN UP

A. Remove temporary measures after permanent measures have been installed, unless permitted to remain by Architect.

B. Clean out temporary sediment control structures that are to remain as permanent measures.

C. Where removal of temporary measures would leave exposed soil, shape surface to an acceptable grade and finish to match adjacent ground surfaces.

END OF SECTION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Formwork for cast-in-place concrete, with shoring, bracing and anchorage.

B. Form accessories.

C. Form stripping.

1.02 RELATED REQUIREMENTS

A. Section 032000 - Concrete Reinforcing.

B. Section 033000 - Cast-in-Place Concrete.

C. Section 312316 - Excavation: Shoring and underpinning for excavation.

1.03 REFERENCE STANDARDS

A. ACI 301 - Specifications for Concrete Construction 2020.

1.04 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

PART 2 PRODUCTS

2.01 FORMWORK - GENERAL

A. Provide concrete forms, accessories, shoring, and bracing as required to accomplish cast-in-place concrete work.

B. Design and construct concrete that complies with design with respect to shape, lines, and dimensions.

C. Comply with applicable state and local codes with respect to design, fabrication, erection, and removal of formwork.

2.02 FORMWORK ACCESSORIES

A. Form Release Agent: Capable of releasing forms from hardened concrete without staining or discoloring concrete or forming bugholes and other surface defects, compatible with concrete and form materials, and not requiring removal for satisfactory bonding of coatings to be applied.

PART 3 EXECUTION

3.01 ERECTION - FORMWORK

A. Erect formwork, shoring and bracing to achieve design requirements, in accordance with requirements of ACI 301.

B. Provide bracing to ensure stability of formwork. Shore or strengthen formwork subject to overstressing by construction loads.

3.02 APPLICATION - FORM RELEASE AGENT

A. Apply form release agent on formwork in accordance with manufacturer's recommendations.

3.03 FORM REMOVAL

A. Do not remove forms or bracing until concrete has gained sufficient strength to carry its own weight and imposed loads.

END OF SECTION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Reinforcing steel for cast-in-place concrete.

B. Supports and accessories for steel reinforcement.

1.02 RELATED REQUIREMENTS

A. Section 031000 - Concrete Forming and Accessories.

B. Section 033000 - Cast-in-Place Concrete.

1.03 REFERENCE STANDARDS

A. ACI 301 - Specifications for Concrete Construction 2020.

B. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement 2022.

C. ASTM A706/A706M - Standard Specification for Deformed and Plain Low-Alloy Steel Bars for Concrete Reinforcement 2022.

D. CRSI (DA4) - Manual of Standard Practice 2009.

E. CRSI (P1) - Placing Reinforcing Bars, 10th Edition 2019.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Reinforcing Steel:
   1. Commercial Metals Company; Rebar: www.cmc.com/#sle.

2.02 REINFORCEMENT

A. Reinforcing Steel: ASTM A615/A615M, Grade 60 (60,000 psi) (420 MPa).
   1. Plain billet-steel bars.

B. Reinforcing Steel: ASTM A706/A706M, deformed low-alloy steel bars.
   1. Unfinished.

C. Reinforcement Accessories:
   1. Tie Wire: Annealed, minimum 16 gauge, 0.0508 inch (1.29 mm).
   2. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for adequate support of reinforcement during concrete placement.

2.03 FABRICATION

A. Fabricate concrete reinforcing in accordance with CRSI (DA4) - Manual of Standard Practice.

PART 3 EXECUTION

3.01 PLACEMENT

A. Place, support and secure reinforcement against displacement. Do not deviate from required position.

B. Maintain concrete cover around reinforcing as follows:
   1. Slabs on Fill: 2 inch ([____] mm).

END OF SECTION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Concrete formwork.

B. Floors and slabs on grade.

1.02 RELATED REQUIREMENTS

A. Section 031000 - Concrete Forming and Accessories: Forms and accessories for formwork.

B. Section 032000 - Concrete Reinforcing.

C. Section 079200 - Joint Sealants: Products and installation for sealants and joint fillers for saw cut joints and isolation joints in slabs.

D. Section 079513 - Expansion Joint Cover Assemblies.

1.03 REFERENCE STANDARDS

A. ACI 301 - Specifications for Concrete Construction 2020.

B. ACI 306R - Guide to Cold Weather Concreting 2016.

1.04 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

B. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions.

C. Mix Design: Submit proposed concrete mix design.
   1. Indicate proposed mix design complies with requirements of ACI 301, Section 4 - Concrete Mixtures.

PART 2 PRODUCTS

2.01 REINFORCEMENT MATERIALS

A. Comply with requirements of Section 032000.

END OF SECTION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Aggregate base course.

B. Paving aggregates.

C. Geocell grids.

1.02 RELATED REQUIREMENTS

A. Section 310519 - Geosynthetics for Earthwork.

B. Section 312200 - Grading: Preparation of site for base course.

C. Section 312316.13 - Trenching: Compacted fill over utility trenches under base course.

D. Section 312323 - Fill: Topsoil fill at areas adjacent to aggregate base course.

E. Section 312323 - Fill: Compacted fill under base course.

F. Section 321313 - Concrete Paving: Finish concrete surface course.

1.03 REFERENCE STANDARDS

A. AASHTO M 147 - Standard Specification for Materials for Aggregate and Soil–Aggregate Subbase, Base, and Surface Courses 2017 (Reapproved 2021).

B. ASTM D6693/D6693M - Standard Test Method for Determining Tensile Properties of Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembranes 2020.

PART 2 PRODUCTS

2.01 MATERIALS

A. Blended Aggregate: Pit run stone; free of shale, clay, friable material and debris. 3/4" base rock with fines.

B. Geocell Grid: High density polyethylene, perforated.
   1. Cell Depth: 3 inches (76 mm).
   2. Cell Area: 45 sq in (290 sq cm), nominal.
   3. Tensile Strength: 1,000 psf (16 018 ksm), minimum when tested in accordance with ASTM D6693/D6693M.

END OF SECTION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. New trees, plants, and ground cover.

B. Mulch and Fertilizer.

C. Maintenance.

D. Tree Pruning.

1.02 RELATED REQUIREMENTS

A. Section 312200 - Grading: Topsoil material.

B. Section 312323 - Fill: Topsoil material.

1.03 PRICE AND PAYMENT PROCEDURES

A. Unit Prices:
   1. See Section 012200 - Unit Prices, for additional unit price requirements.
   2. Plants: By the unit. Includes preparation of subsoil, placing topsoil, planting, watering and maintenance to specified time period.

1.04 REFERENCE STANDARDS

A. ANSI A300 Part 1 - American National Standard for Tree Care Operations - Tree, Shrub, and Other Woody Plant Management - Standard Practices (Pruning) 2017.

1.05 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Certificate: Certify fertilizer and herbicide mixture approval by authority having jurisdiction.

1.06 QUALITY ASSURANCE

A. Nursery Qualifications: Company specializing in growing and cultivating the plants with three years documented experience.

B. Installer Qualifications: Company specializing in installing and planting the plants approved by nursery.

C. Maintenance Services: Performed by installer.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver fertilizer in waterproof bags showing weight, chemical analysis, and name of manufacturer.

B. Protect and maintain plant life until planted.

C. Deliver plant life materials immediately prior to placement. Keep plants moist.

1.08 FIELD CONDITIONS

A. Do not install plant life when ambient temperatures may drop below 35 degrees F (2 degrees C) or rise above 90 degrees F (32 degrees C).

B. Do not install plant life when wind velocity exceeds 30 mph (48 k/hr).

1.09 WARRANTY

A. See Section 017800 - Closeout Submittals, for additional warranty requirements.

B. Provide one year warranty.

C. Warranty: Include coverage for one continuous growing season; replace dead or unhealthy plants.

D. Replacements: Plants of same size and species as specified, planted in the next growing season, with a new warranty commencing on date of replacement.

1.10 MAINTENANCE (SEE END OF SECTION)

A. See Section 017000 - Execution and Closeout Requirements, for additional requirements relating to maintenance service.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. Comply with regulatory agencies for fertilizer and herbicide composition.

B. Provide certificate of compliance from authority having jurisdiction indicating approval of plants, fertilizer and herbicide mixture.

C. Plant Materials: Certified by federal department of agriculture; free of disease or hazardous insects.

2.02 PLANTS

A. Plants: Species and size identified in plant schedule, grown in climatic conditions similar to those in locality of the work.

2.03 MULCH MATERIALS

2.04 ACCESSORIES

A. Wrapping Materials: Burlap.

B. Stakes: Softwood lumber, pointed end.

C. Plant Protectors: Rubber sleeves over cable to protect plant stems, trunks, and branches.

D. Decorative Cover: Fir bark chips, 2 inch ([____] mm) minimum and 3 inch ([____] mm) maximum size.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that prepared subsoil and planters are ready to receive work.

B. Saturate soil with water to test drainage.

3.02 PLANTING

A. Place plants for best appearance for review and final orientation by Engineer

B. Set plants vertical.

C. Remove non-biodegradable root containers.

D. Set plants in pits or beds, partly filled with prepared plant mix, at a minimum depth of 6 inches (of 150 mm) under each plant. Remove burlap, ropes, and wires, from the root ball.

E. Place bare root plant materials so roots lie in a natural position. Backfill soil mixture in 6 inch (150 mm) layers. Maintain plant life in vertical position.

F. Saturate soil with water when the pit or bed is half full of topsoil and again when full.

3.03 PLANT SUPPORT

A. Brace plants vertically with plant protector wrapped guy wires and stakes to the following:
   1. Tree Caliper: 1 inch (25 mm); Tree Support Method: 1 stake with one tie
   2. Tree Caliper: 1 to 2 inches (25 to 50 mm); Tree Support Method: 2 stakes with two ties

3.04 TREE PRUNING

A. Prune trees as recommended in ANSI A300 Part 1.

B. Prune newly planted trees as required to remove dead, broken, and split branches.

3.05 FIELD QUALITY CONTROL

A. Plants will be rejected if a ball of earth surrounding roots has been disturbed or damaged prior to or during planting.

3.06 MAINTENANCE

A. Provide maintenance at no extra cost to Owner; Owner will provide for water on site @ hose bib.

B. Irrigate sufficiently to saturate root system and prevent soil from drying out.

C. Remove dead or broken branches and treat pruned areas or other wounds.

D. Neatly trim plants where necessary.

E. Immediately remove clippings after trimming.

F. Control growth of weeds. Apply herbicides in accordance with manufacturer's instructions.

G. Control insect damage and disease. Apply pesticides in accordance with manufacturers instructions.

H. Remedy damage from use of herbicides and pesticides.

I. Replace mulch when deteriorated.

J. Maintain wrappings, guys, turnbuckles, and stakes. Adjust turnbuckles to keep guy wires tight. Repair or replace accessories when required.

3.07 SCHEDULE - PLANT LIST

A. Provide plants on plant legend. Plants to be located on site by owners representative. :

END OF SECTION

Addendum #1 1-30-2024

Shelly Park Renovation Project - 2022

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Administrative items:

1. There is no bid security required. “in the offer 1.03 C.-“Security deposit is not required”.

2. Bid submission please provide:

    1. Executed 8 1/2”x11” Bid form 004100-1 and 004100-2

    2. Item 1.06 “ ADDENDA” Please acknowledge receipt of this Addenda #1. Stating “ *Addendum #1 received”*

    3. Also Provide, fully executed and attached in this addendum #1, the “Project Estimate and Bid Form dated 1-30-2023

3. **Provide deduct alternate price to remove sod installation from the project. 5,706 sq. ft.** See revised bid sheet with alternate**.**

4. Please recognize revised Items #7 and #8 of “Project Estimate and Bid Form” with clarification of topsoil salvage and placement.

Contact information:

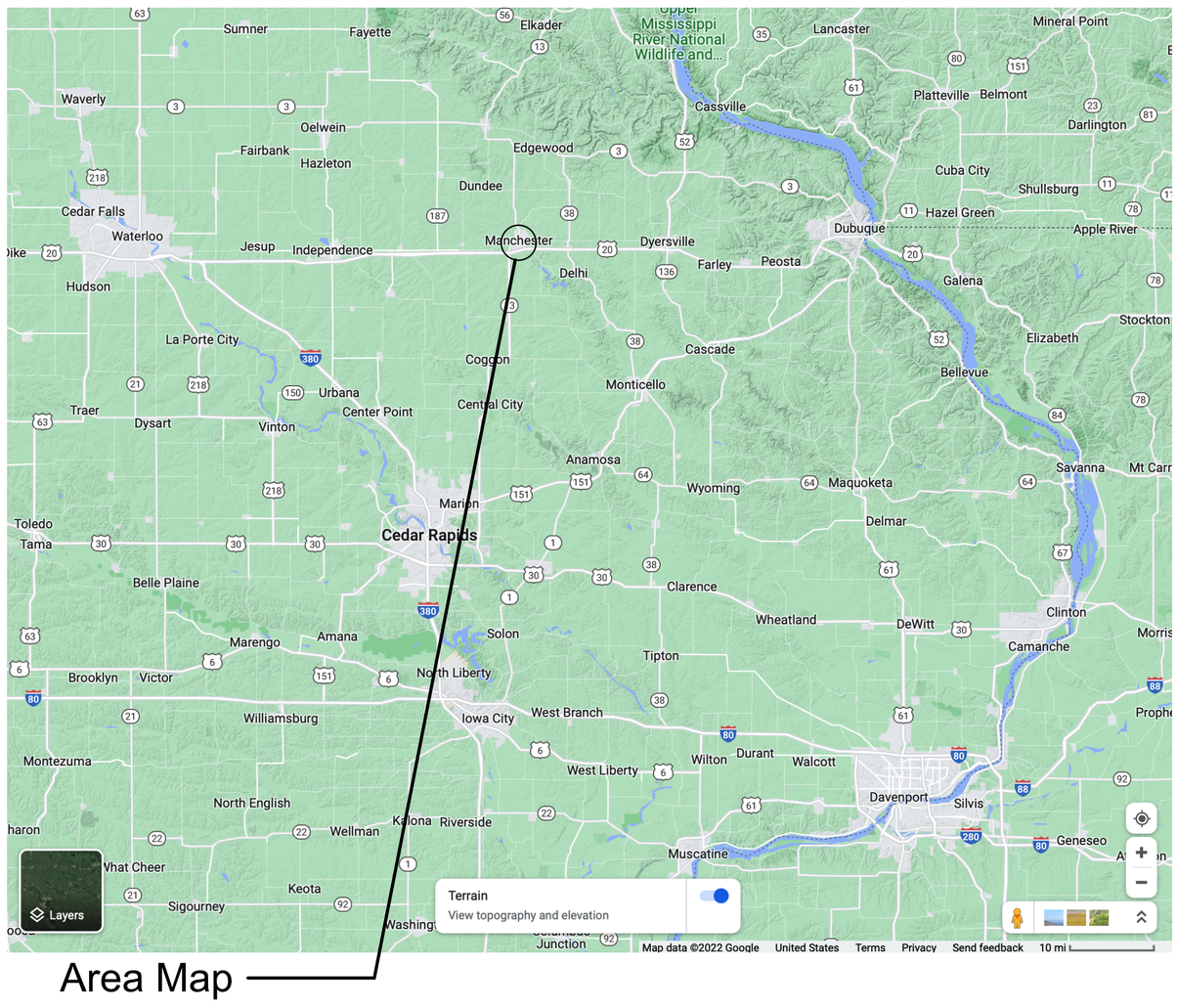
5. Tom Mercer @ River CIty Stone 608-778-0504

Project Estimate and Bid Form
Shelly Park Renovation - Manchester, Iowa
Addendum #1 - Attachment - 1/30/2023

Item Number	Work Item	Estimated Quantity	Unit	Description	Unit Price	Est. Total Price	Unit Price	Total Price
1	Mobilization	1	Lump Sum	Includes all costs associated with mobilization for the project. Bonding, permitting, SWPPP, staging area preparation, waste borrow, topsoil storage, fuel storage, fencing, stormwater controls, clearing and grubbing, access roads, machinery transportation, staging, removal of all machinery, and restoration of all impacted areas. No other items associated with mobilization and demobilization will be paid. Includes miscellaneous items needed for the project that are not incidental to other items and not specifically noted as items.	$48,000.00	$48,000.00		
2	Silt Fencing	300	Lin. Ft.	Includes acquisition, placement, maintenance, and removal of silt fencing.	$15.00	$4,500.00		
3	Concrete paving removal	3583	Sq Feet	Removal and disposal of all site concrete. Assumed depth of 5”.	$4.50	$16,123.50		
4	Survey/Layout	1	Lump Sum	Provide Control Data and survey/plan interpretation of new plans, locations and elevations grading cut and fill. It is estimated that the South side of the project will require 1 foot of fill and the North end will generate 3 foot of fill. It is therefore estimated that the site fill exceeds the cut . There is a unit price for the removal of fill.	$4,500.00	$4,500.00		
5	Concrete Stair Removal	1	Lump Sum	15’x10’ existing concrete stair removal and disposal.	$2,600.00	$2,600.00		
6	Demolition	1	Lump Sum	Includes the discovery and removal of existing utilities. Removal and disposal of Shelter footings. Removal of existing Drinking fountain and working with the Power Company to remove electrical meter. Removal of misc concrete, light poles and benches.	$15,000.00	$15,000.00		
7	Grade Cut	400	Cubic Yards	Includes the regrading cut and filling of suitable top soil behind new stone walls and planting areas. Remainder to be off hauled to City Yard. 400 - 127 = 273 cubic yards to be included. Additional soil removal to be paid for via unit price. Contractor to maintain load tickets for all removal for determination of export soil and determination of additional charges. Suitable top soil to remain on site and distributed in proposed planting areas.	$25.00	$10,000.00		
8	Grade Fill	127	Cubic Yards	Fill to be from cutting operations on site. Salvaged suitable black dirt to be placed in planting areas by grading contractor. 6” min depth of topsoil at all planting areas.	$25.00	$3,175.00		
9	Large Stone	390	Tons	Includes acquisition of Stones, transport, placement as directed, modifications to and fine setting of stone and final grading.	$350.00	$136,500.00		
10	Concrete Paving	2610	Sq Feet	Includes subgrade preparation and new stone base, forming, approval by Owner representative, placement of concrete, cold-weather precautions (if needed), finishing, testing, Expansion joints @locations shown on plan., and final approval by Owner representative. C-4 mix as basis for bid provide mix design submittal for approval.	$13.00	$33,930.00		
11	Pre cast Concrete stairs treads	3	Each	Includes acquisition and placement of stairs, base material and grading, survey, and finishing, Coordination with walkways and handrails.	$5,500.00	$11,000.00		
12	Metal Handrails	3	Each	Includes the fabrication and installation of 3 metal handrails.	$1,200.00	$3,600.00		
13	Electrical / Plumbing, Trenching and Sleeving	470	Lin Ft	Includes acquisition, placement, of conduits and underground boxes, grading, surveying to determine and confirm elevations, and final grading following sleeve placement. Includes the termination of existing utilities if not completed in demolition phase.	$10.00	$4,700.00		
14	Planting Trees, Shrubs & Lawns	1	Lump Sum	Includes the acquisition of and installation of all trees, shrubs, ground covers, sod, prep and fine grading within 1" of finished grade. To include weed fabric, plant basins, planting bark mulching fertilizer and staking and 1 year warranty from date of installation. Use SUDAS Standards for planting operations.	$35,000.00	$35,000.00		
ALT #1	Deduct alternate-Sod Planting	1	Lump Sum	Deduct the acquisition and installation of Sod lawn from Item #14 Planting. 5706 Sq ft Est.<$10,270>				
				Total		$328,628.50		

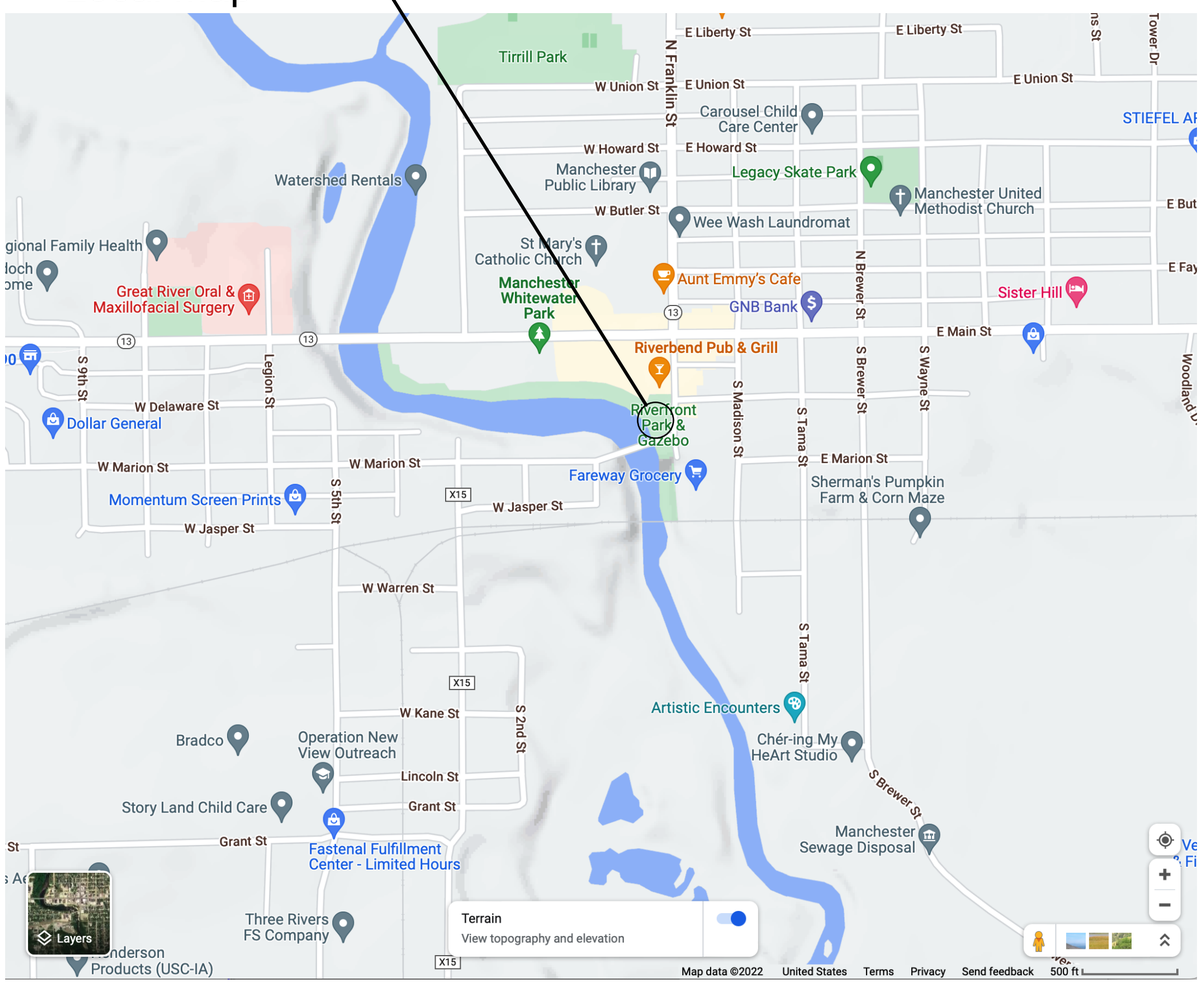
Shelly Park

Renovation Project - 2023



Area Map

Local Map



October 20,2022

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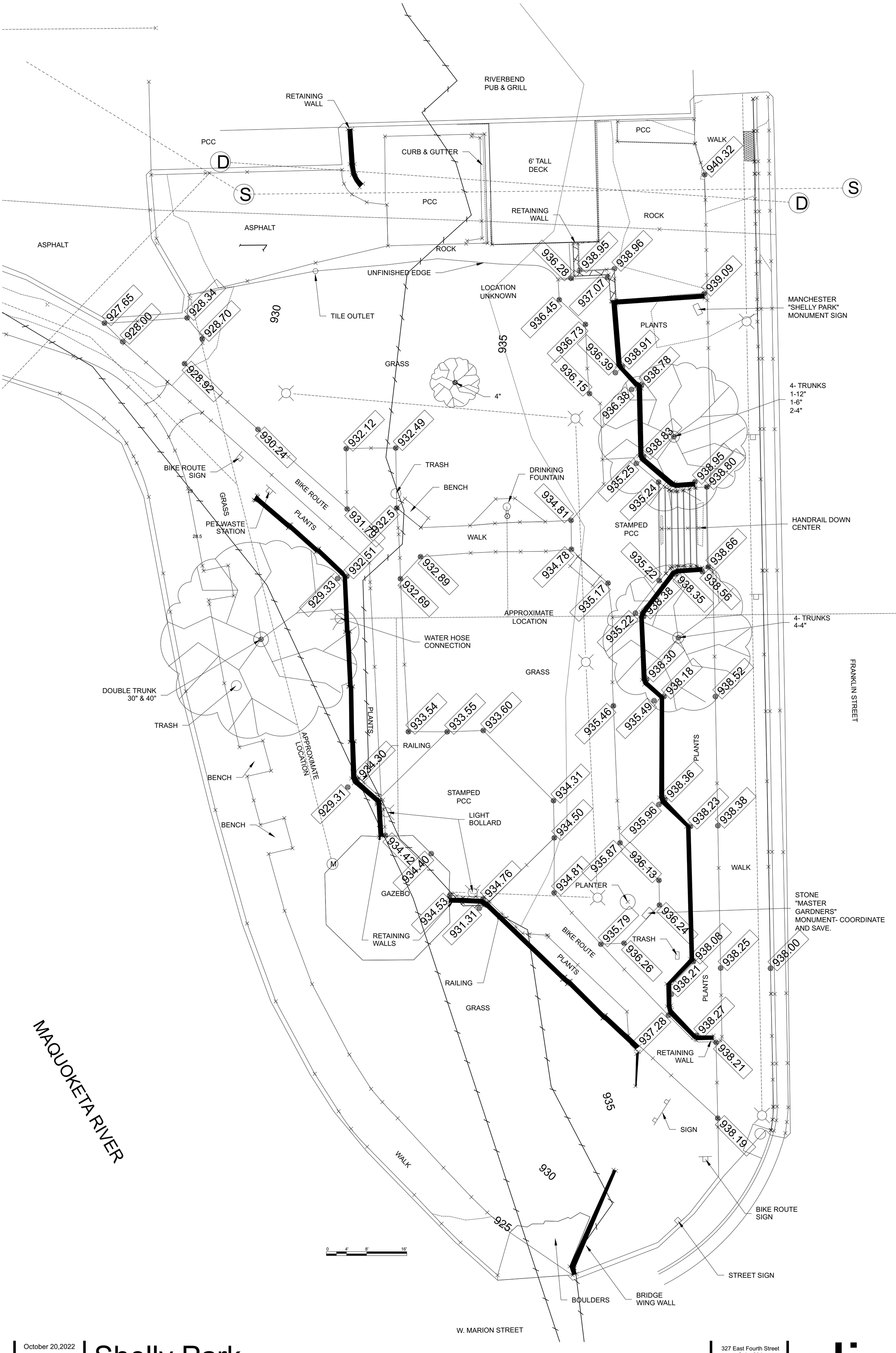

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0.1

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RIVERBEND PUB & GRILL
RETAINING WALL
PCC
CURB & GUTTER
6' TALL DECK
WALK
940.32
NEWER BLOCK WALL TO REMAIN
D
S
ASPHALT
ROCK
REMOVE MODULAR CONCRETE BLOCK RETAINING WALLS
936.28
938.95
938.96
939.09
937.07
UNFINISHED EDGE
LOCATION UNKNOWN
927.65
928.00
928.34
928.70
930
TILE OUTLET
936.45
MANCHESTER "SHELLY PARK" MONUMENT SIGN
PLANTS
936.73
936.39
936.15
938.91
938.78
WATERLINE TO BE LOCATED BY CONTRACTOR. DRINKING FOUNTAIN TO BE REMOVED BY OWNER.
935
GRASS
4"
4- TRUNKS 1-12" 1-6" 2-4"
928.92
930.24
(E) TREE ELEVATION +/- 934.50
932.12
932.49
936.38
TREE SHOWN- PREVIOUSLY REMOVED
EXISTING TREE TO BE RELOCATED BY CITY.
BIKE ROUTE SIGN
TRASH
BENCH
DRINKING FOUNTAIN
938.83
938.95
938.80
CONCRETE STEPS AND HANDRAILS TO BE REMOVED
BIKE ROUTE
GRASS
PLANTS
PET WASTE STATION
931.79
932.5
934.81
935.25
935.24
HANDRAIL DOWN CENTER
STAMPED PCC
WALK
MODULAR CONCRETE BLOCK RETAINING WALLS REMOVED BY OTHERS.
932.51
932.89
932.69
934.78
935.22
938.66
938.38
938.35
938.56
929.33
935.17
APPROXIMATE LOCATION
4- TRUNKS 4-4"
WATER HOSE CONNECTION
935.22
938.30
938.18
938.52
GRASS
FRANKLIN STREET
DOUBLE TRUNK 30" & 40"
COTTONWOOD TREE TO BE REMOVED BY CITY
TRASH
PLANTS
933.54
933.55
933.60
935.46
935.49
RAILING
APPROXIMATE LOCATION
934.30
3,583 sq ft
STAMPED PCC
934.31
938.36
3 EACH LIGHT POLES TO BE REMOVED BY CITY.
BENCH
CONCRETE PAVING TO BE REMOVED BY CONTRACTOR
929.31
LIGHT BOLLARD
934.50
938.23
938.38
PLANTER TO BE REMOVED BY OTHERS.
935.96
BENCH
934.42
934.40
935.87
936.13
934.81
WALK
EXISTING WOOD GAZEBO TO BE REMOVED BY CITY.
GAZEBO
934.76
PLANTER
STONE "MASTER GARDNERS" MONUMENT- COORDINATE AND SAVE.
934.53
931.31
936.24
CONCRETE WALK TO REMAIN AT RIVER EDGE
RETAINING WALLS
935.79
TRASH
936.26
938.08
938.25
938.00
BIKE ROUTE
PLANTS
938.21
PLANTS
938.27
RAILING
GRASS
937.28
MODULAR CONCRETE BLOCK RETAINING WALLS REMOVED BY OTHERS.
RETAINING WALL
938.21
935
SIGN
938.19
MAQUOKETA RIVER
WALK
930
925
BIKE ROUTE SIGN
0 4' 8' 16'
STREET SIGN
BOULDERS
BRIDGE WING WALL
North
W. MARION STREET

Demolition Plan
SCALE: 1/8" = 1'-0"

October 20,2022

1.0

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STEPPED WALL TYP TO MAINTAIN 20" HT ABOVE WALKWAY.

928
WALKWAY CONCRETE 1 A3.0
#1
EX
28.5
'A'
'B'
'C'
'D'
'E'
'F'
R 37'
R 22'
R 9'
R 5'
R 11'
R 27'-3"
3% LAWN SLOPE
HANDRAIL 2 A3.0
STAIR 3 A3.0
WALKWAY CONCRETE 1 A3.0
Concrete slab scribed to Feature stone
FeatureStone
Planting Area
13 sq ft
14 sq ft
68 sq ft
151 sq ft
152 sq ft
2,209 sq ft
Concrete walkway
Hand rail
5 R @ 7"
4 TREADS @ 11"
6 Risers @ 7"
6 R @ 7"
5 TREADS @ 14"+ (Varies)
3'-0"
5'-0"
8'-0"
6'MIN.
CW
LAWN
STONE STACKING TYPICAL 5 A3.0
M
BW 30.00 (Varies)
BW 28.33
BW 25.00
TW 36.66
TW 35.00
TW 33.33
TW 31.66
TW 30.00
TW 28.33
TW 26.66
TW 34
TW 32
TS 37.75
BS 33.5
(E) Sign
-2
-3
+1
0
EX

LEGEND

EXISTING CONTOUR

PROPOSED CONTOUR

TOP OF WALL ELEVATION

TYPICAL WALL ELEVATIONS- ELEVATION NUMBERS HAVE BEEN FORESHORTEN FOR SIMPLICITY. 935.0 = 35.0

LARGE STONES FOR PROJECT AVAILABLE AT LOCAL QUARRY SOUTH OF TOWN. 5 MILES.

FULL DEPTH EXPANSION JOINT WITH SMOOTH REBAR DOWELS @ 16" O.C WITH 1/2" FOAM EXPANSION JONT MATERIAL AND URETHANE JOINT @ TOP .

EX
AT 6 LOCATIONS

0 4' 8' 16'

North

Layout/Grading Plan
SCALE: 1/8" = 1'-0"

October 20,2022

1.1

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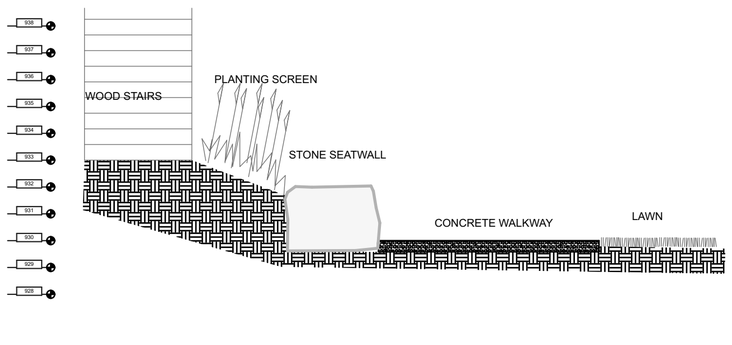
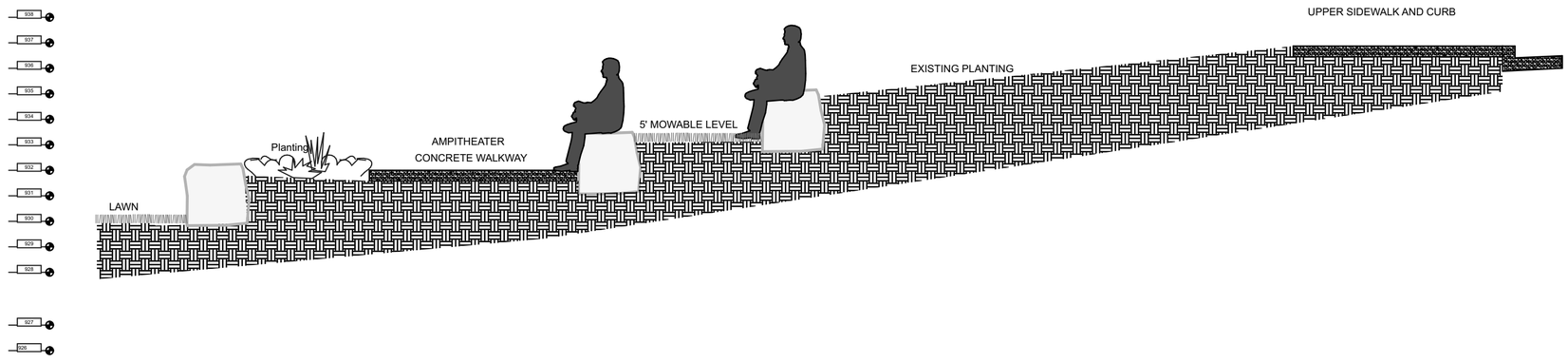


A 2.0

Section North Edge

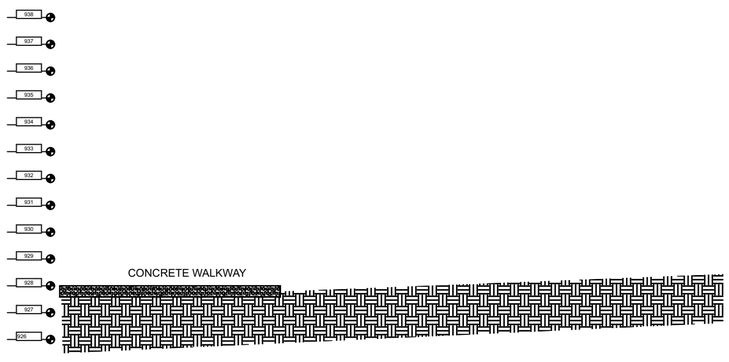
SCALE: 1/4" = 1'-0"

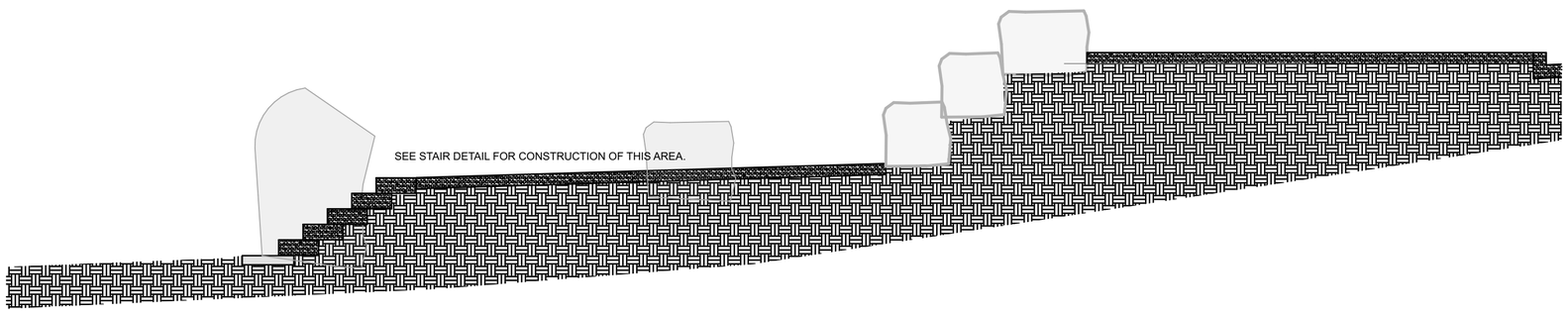


B 2.0

Section @ Seating

SCALE: 1/4" = 1'-0"

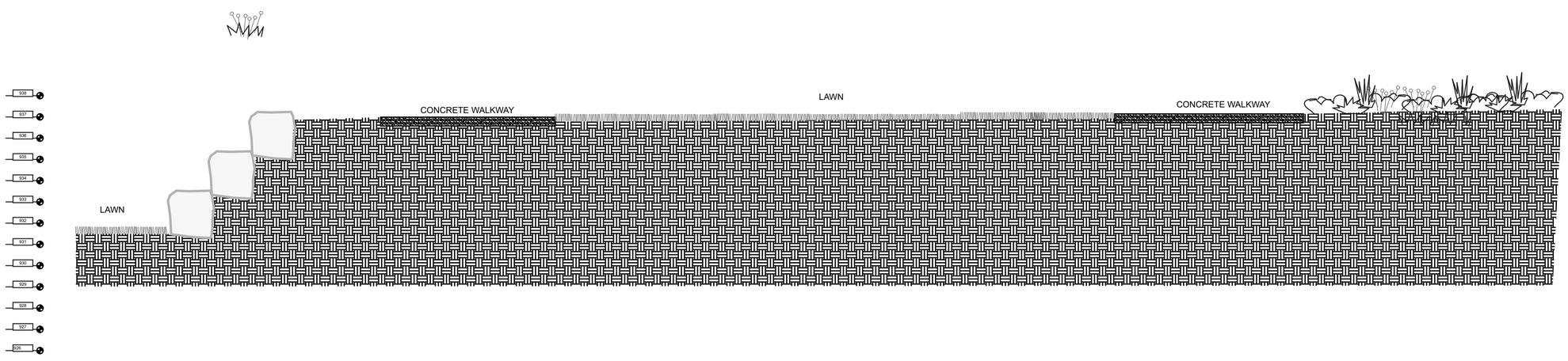




C 2.0

Section of Lawn-North Edge

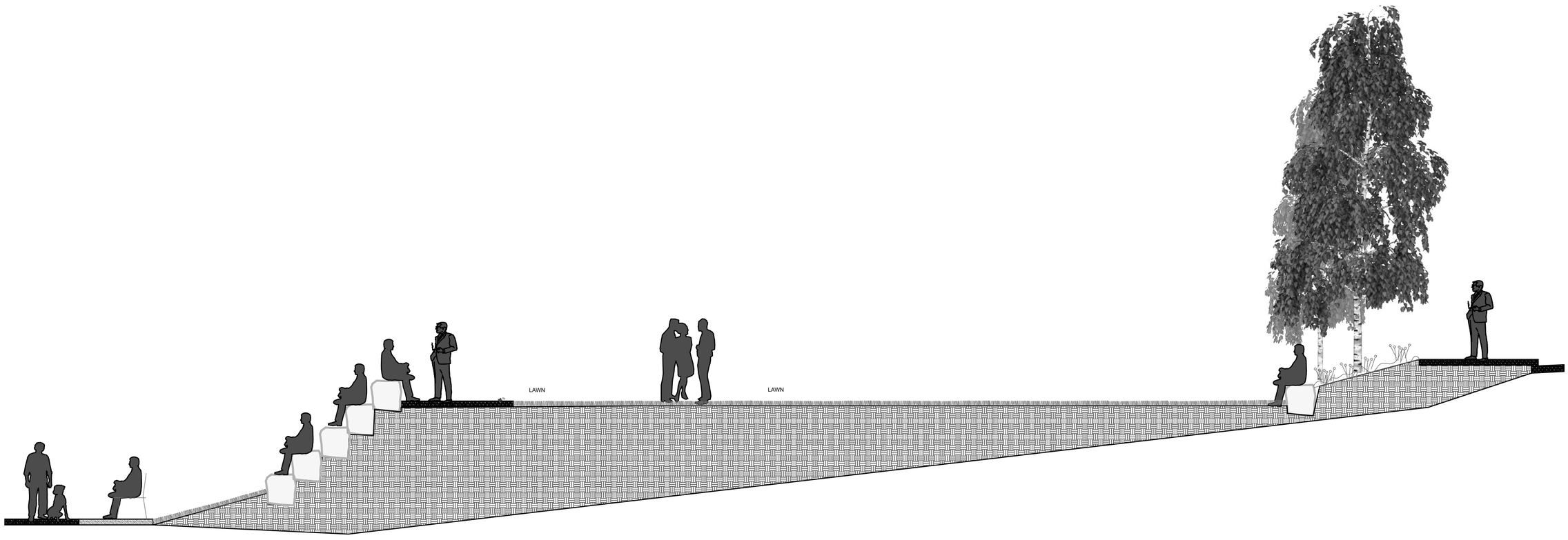
SCALE: 1/4" = 1'-0"



D 2.0

Section North /South

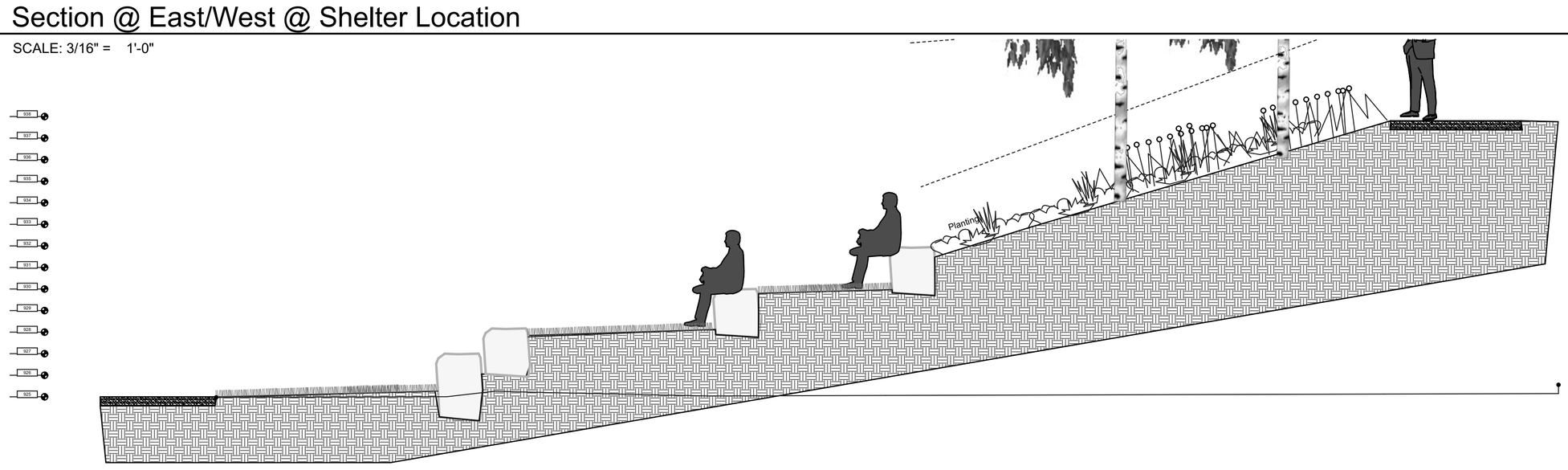
SCALE: 1/4" = 1'-0"



E 2.0

Section @ East/West @ Shelter Location

SCALE: 3/16" = 1'-0"



E 2.0

Section @ East/West @ South End

SCALE: 1/4" = 1'-0"

October 20,2022

2.0

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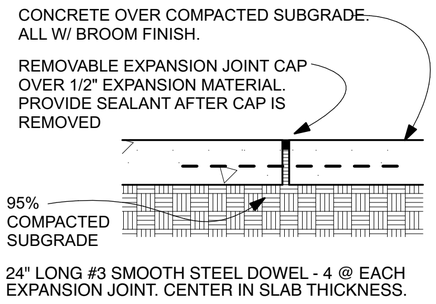
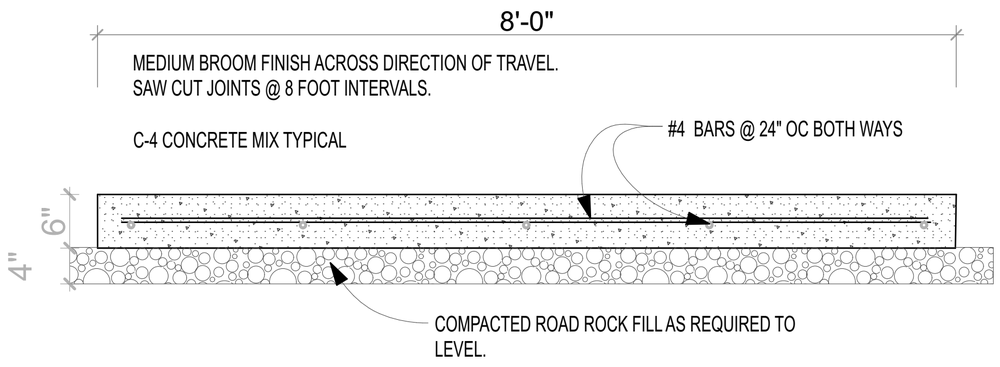
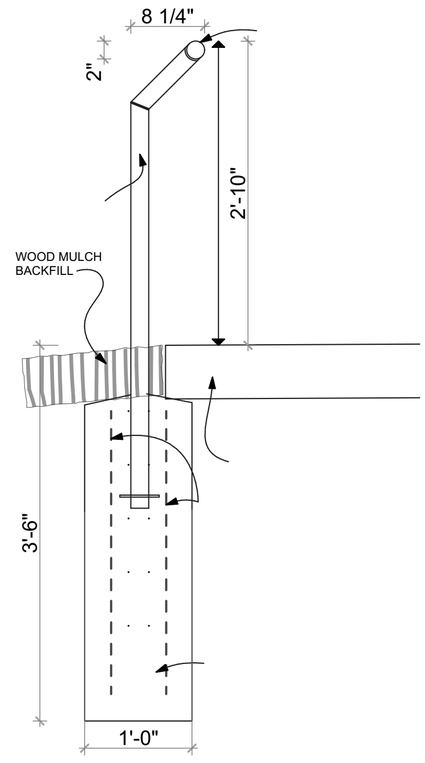


DOWEL SECTION

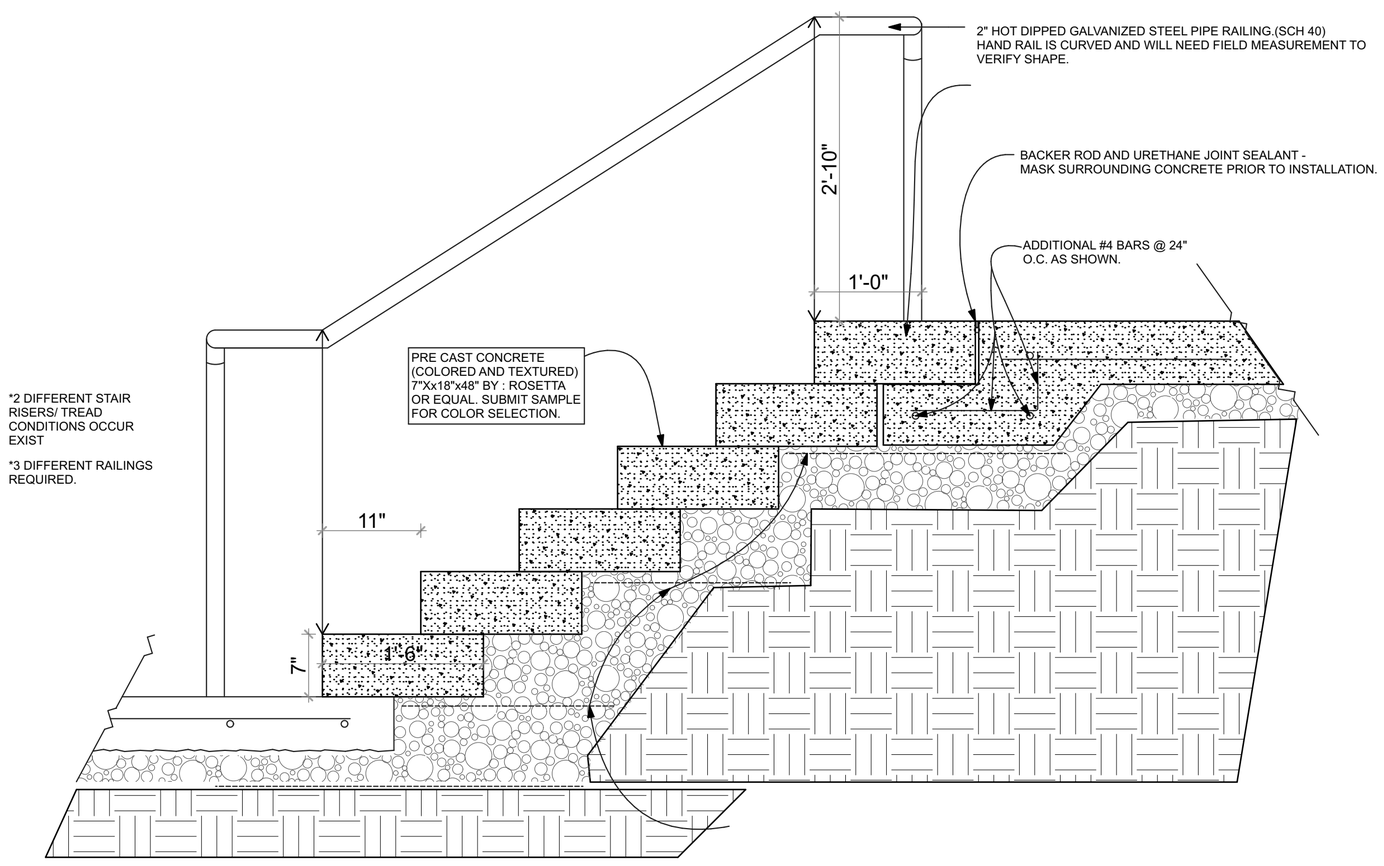
Expansion Joint Detail - See Plan for locations





1 / 3.0 Concrete Walkway Detail

SCALE: 1" = 1'-0"

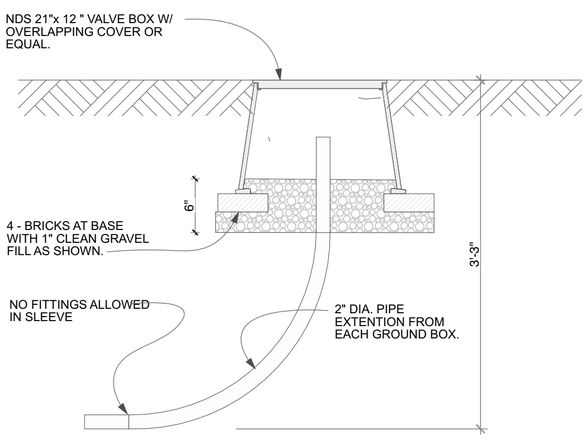


2 / 3.0 Concrete Walkway Detail

SCALE: 1" = 1'-0"

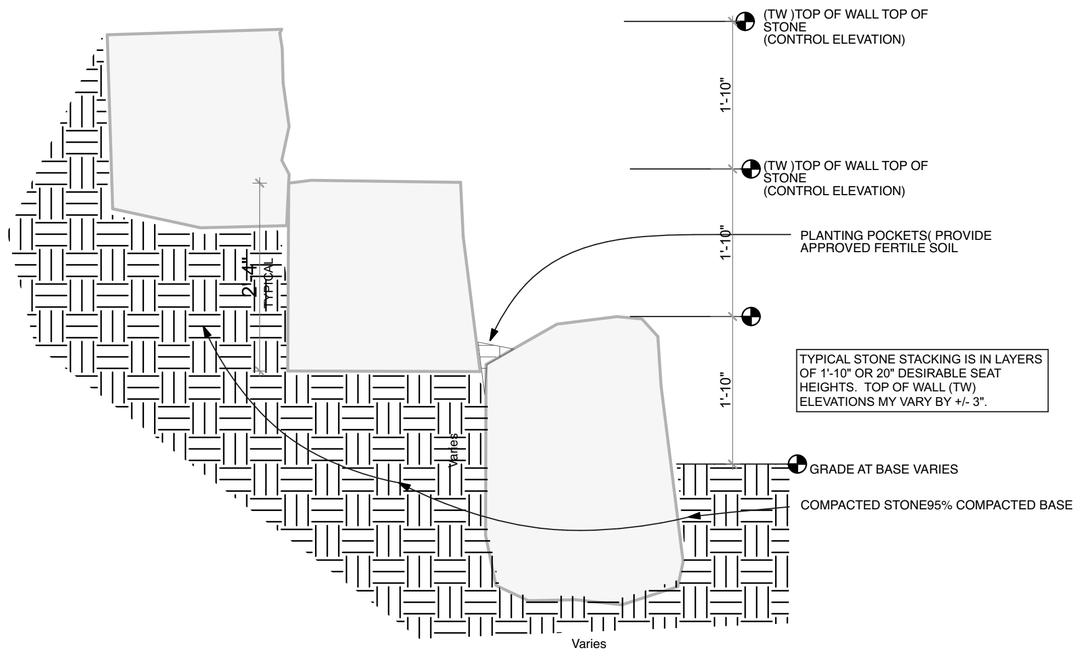
3 / 3.0 Precast Stair Detail

SCALE: 1" = 1'-0"



4 / 3.0 Ground Box Detail

SCALE: 1" = 1'-0"



5 / 3.0 Typical Stone Stacking Detail

SCALE: 3/4" = 1'-0"

October 20,2022

3.0

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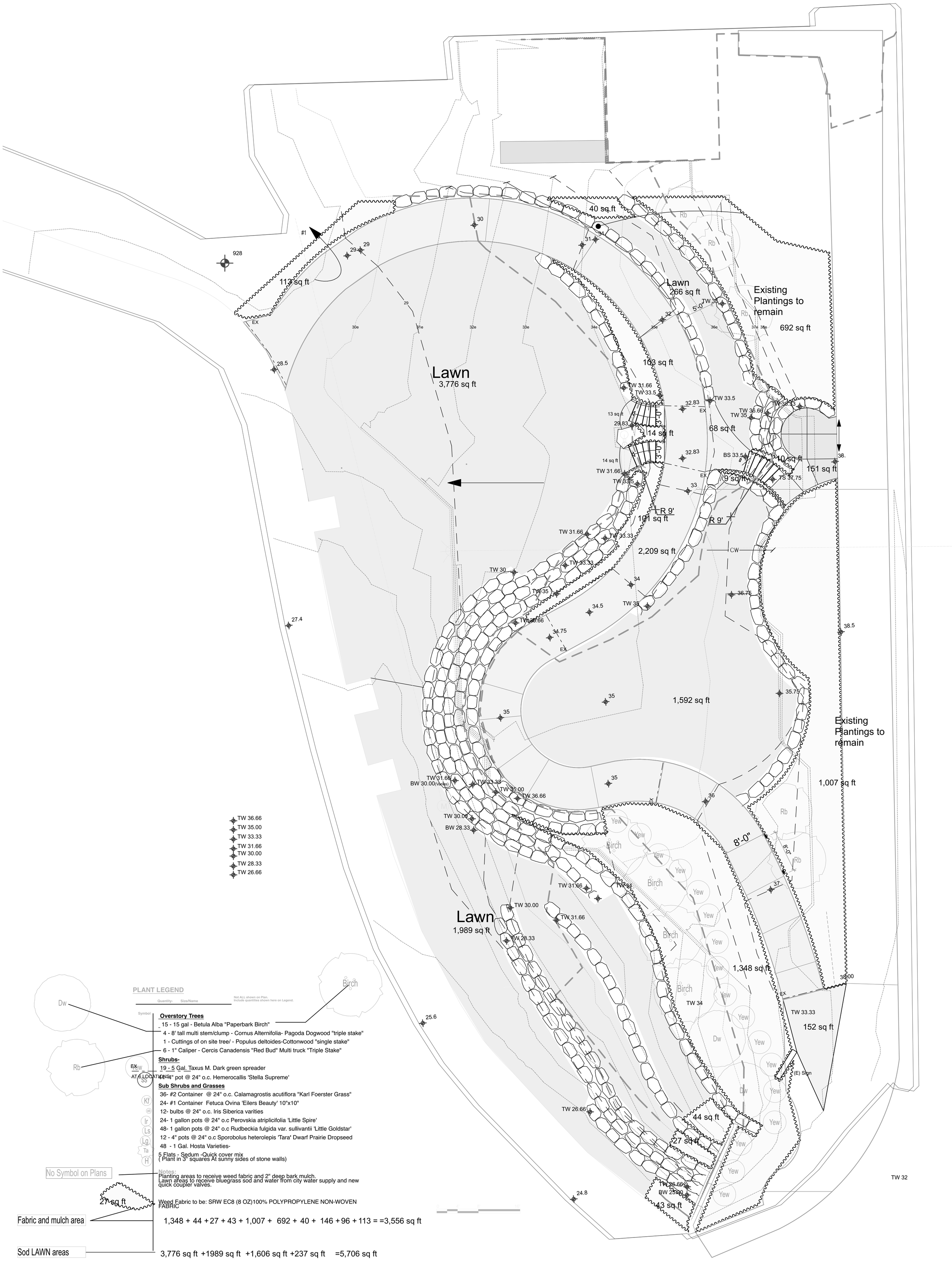

PLANT LEGEND

Not ALL shown on Plan.
Include quantities shown here on Legend.

Quantity- Size/Name

Symbol

Overstory Trees

15 - 15 gal - Betula Alba "Paperbark Birch"

4 - 8' tall multi stem/clump - Cornus Alternifolia- Pagoda Dogwood "triple stake"

1 - Cuttings of on site tree/ - Populus deltoides-Cottonwood "single stake"

6 - 1" Caliper - Cercis Canadensis "Red Bud" Multi truck "Triple Stake"

Shrubs-

19 - 5 Gal. Taxus M. Dark green spreader

AT 6 LOCATIONS 44 - 1 pot @ 24" o.c. Hemerocallis 'Stella Supreme'

Sub Shrubs and Grasses

36- #2 Container @ 24" o.c. Calamagrostis acutiflora "Karl Foerster Grass"

24- #1 Container Fetuca Ovina 'Eilers Beauty' 10"x10"

12- bulbs @ 24" o.c. Iris Siberica varities

24- 1 gallon pots @ 24" o.c Perovskia atriplicifolia 'Little Spire'

48- 1 gallon pots @ 24" o.c Rudbeckia fulgida var. sullivantii 'Little Goldstar'

12 - 4" pots @ 24" o.c Sporobolus heterolepis 'Tara' Dwarf Prairie Dropseed

48 - 1 Gal. Hosta Varieties-

5 Flats - Sedum -Quick cover mix
(Plant in 3" squares At sunny sides of stone walls)

No Symbol on Plans

Notes:
Planting areas to receive weed fabric and 2" deep bark mulch.
Lawn areas to receive bluegrass sod and water from city water supply and new quick coupler valves.

27 sq ft

Weed Fabric to be: SRW EC8 (8 OZ)100% POLYPROPYLENE NON-WOVEN FABRIC

Fabric and mulch area — 1,348 + 44 + 27 + 43 + 1,007 + 692 + 40 + 146 + 96 + 113 = =3,556 sq ft

Sod LAWN areas — 3,776 sq ft +1989 sq ft +1,606 sq ft +237 sq ft =5,706 sq ft

* All plants not shown on plan.
* Order amount of plants shown on legend- Plants to be placed on site by owners representative on planting day

North

Planting Plan

SCALE: 1/8" = 1'-0"

October 20,2022

4.0

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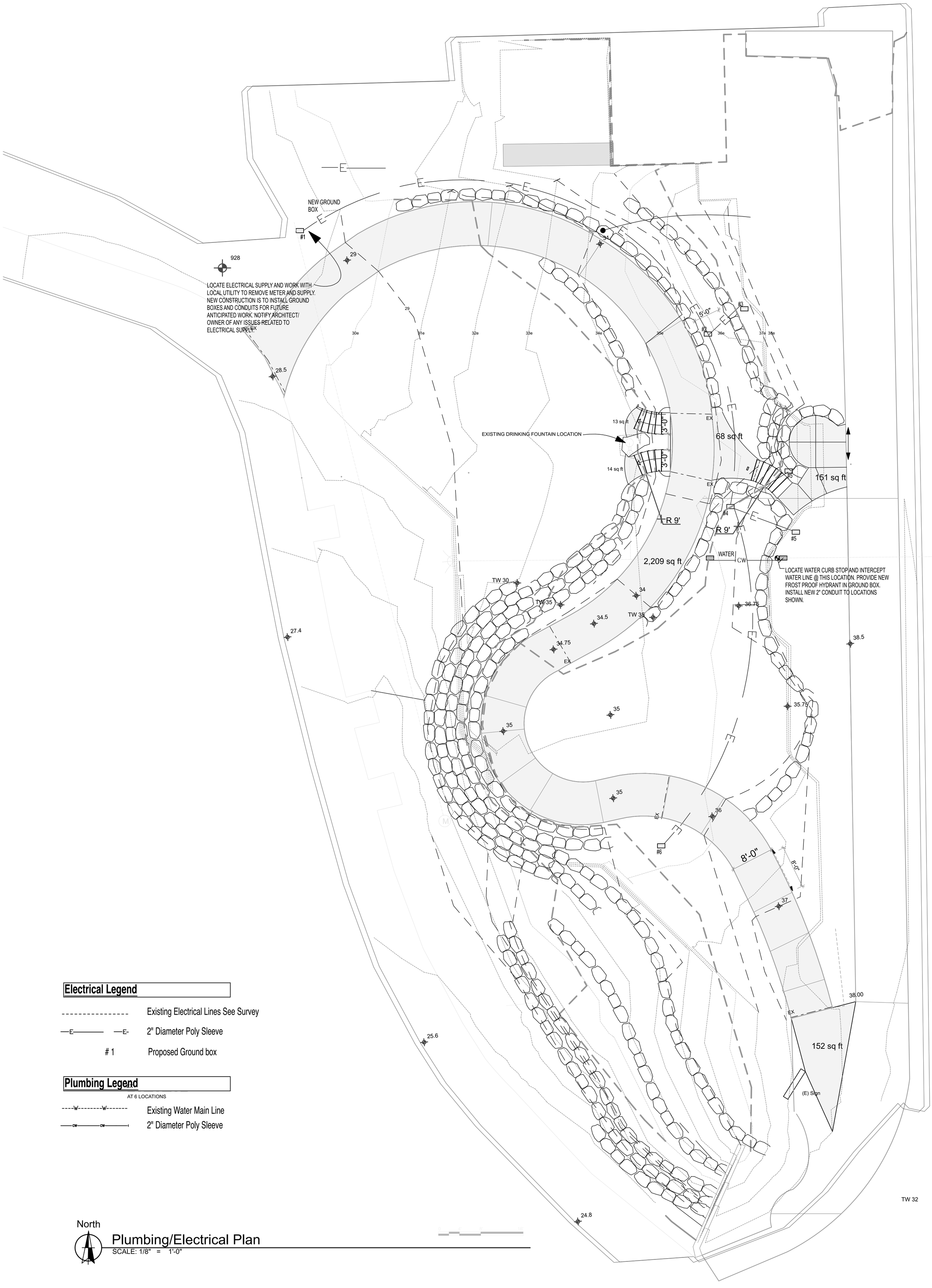

Electrical Legend

----------	Existing Electrical Lines See Survey
—E———— —E-	2" Diameter Poly Sleeve
# 1	Proposed Ground box

Plumbing Legend

AT 6 LOCATIONS

----W--------W-------	Existing Water Main Line
—CW———CW———(	2" Diameter Poly Sleeve

North

Plumbing/Electrical Plan

SCALE: 1/8" = 1'-0"

October 20,2022

5.0

Shelly Park

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