

**Addendum No. 3 to IFB 24-44**



**CITY OF SOMERVILLE, MASSACHUSETTS**  
**Department of Procurement and Contracting Services**  
**KATJANA BALLANTYNE**  
**MAYOR**

**To:** All Parties on Record with the City of Somerville as Holding IFB 24-44

**Henry Hansen Memorial Park Construction Services**

**From:** Sonia Castro

**Date:** 3/4/2024

**Re:** Q & A, Clarifications in Response to City & Engineering Review, and Revised sheets L1.0, L2.0, L3.0,  
L4.0, L5.0, L7.0, L7.2, and L7.4.

**Addendum No. 3 to IFB #24-44**

**Please acknowledge receipt of this Addendum by signing below and including this form in your proposal package. Failure to do so may subject the proposer to disqualification.**

**NAME OF COMPANY / INDIVIDUAL:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**CITY/STATE/ZIP:** \_\_\_\_\_

**TELEPHONE/FAX/EMAIL:** \_\_\_\_\_

**SIGNATURE OF AUTHORIZED INDIVIDUAL:** \_\_\_\_\_

**ACKNOWLEDGEMENT OF ADDENDA:**

**Addendum #1 \_\_\_\_\_ #2 \_\_\_\_\_ #3 \_\_\_\_\_ #4 \_\_\_\_\_**

## **Addendum No. 3 to IFB 24-44**

**Dear Bid Holders,**

With this Addendum #3 the City of Somerville is Providing Answers to Questions Received, Clarifications in Response to City & Engineering Review, and has Revised sheets L1.0, L2.0, L3.0, L4.0, L5.0, L7.0, L7.2, and L7.4. The remaining sheets are reissued for clarity only and marked as revision 1.

Specification Sections 01 41 00, 32 10 00, 32 33 00, and 33 40 00 are attached as other specification sections and have NOT Changed.

### **Questions and Answers:**

**Q1. Our concrete subcontractor ... would like to know where we obtain a copy of the pattern for the soldiers.**

**A1.** The detail and specifications clarify the intent of the formliners. They list the basis-of-design product for the formliners to establish the minimum standards, and the specifications and the detail's notes clarify that the assumption is that the designer will provide a CAD template to the selected supplier, whoever it is, and work with the supplier's standard patterns, assuming they're acceptable, to finalize the setup. The detail drawing itself shows the current layout of manufacturers' standard patterns, recesses and relief levels, and general arrangement, which establishes the expected level of detail and complexity; the exact design and pattern selection will be based on working with the selected supplier.

**Q2. How was the existing granite memorial stone installed?**

**A2.** The City is seeking clarification from the DPW, who installed the stone. Our working assumption (which bidders should assume for the purposes of bid preparation) is that the bottom granite piece is pinned with two (2) stainless steel pins, grouted in place, into the concrete footing below grade, and that the upper portion is similarly connected to the granite base by grouted stainless steel pins. The design team's recommendation is that the granite pieces of the monument itself not be separated from one another; only the connection to the concrete base below should be removed.

**3. Is there an irrigation plan for the proposed system?**

No; as noted on L6.0 under irrigation notes, the Contractor shall provide a design/build system that meets the listed performance specifications, but no specific plan has been prepared.

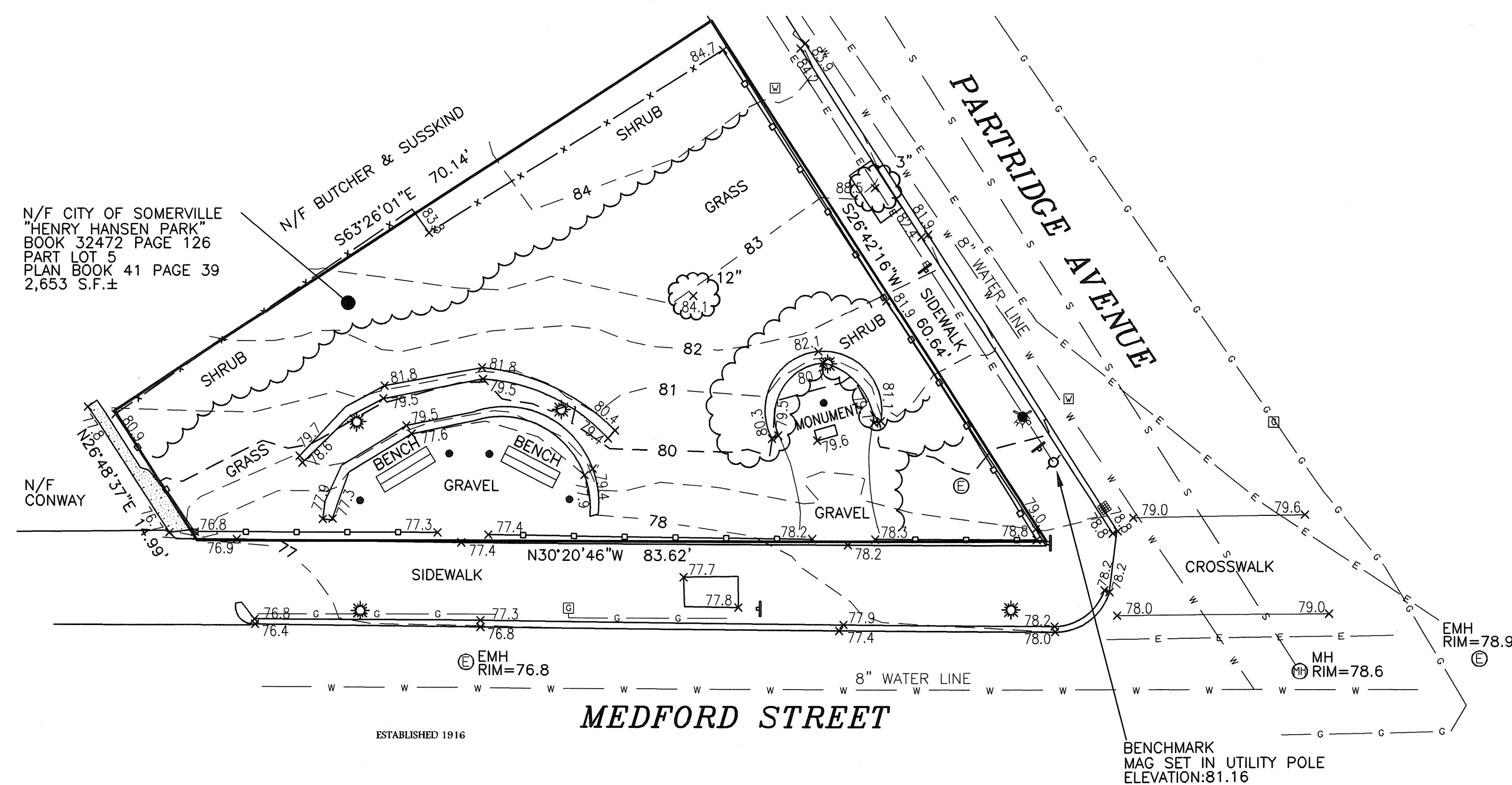
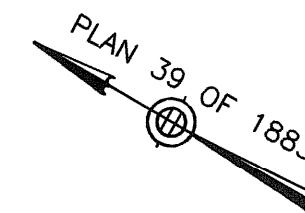
## **Addendum No. 3 to IFB 24-44**

### **Clarifications in Response to City & Engineering Review:**

The following items were noted by City officials after the initial IFB set was issued and are being changed to conform to City Standards, Permit Conditions, or Site Conditions observed in the field.

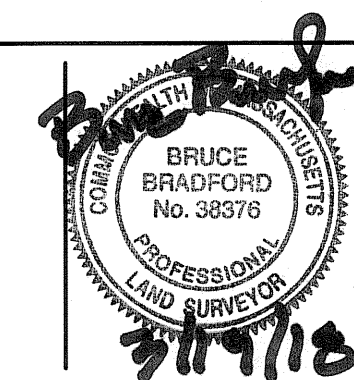
- 1.** The Concrete Sidewalk detail has been revised on L-7.0 to conform to the City standard (no welded wire mesh; the addition of polypropylene fiber reinforcement; additional thickness at driveways; and a tooled rather than a sawn joint). These changes are also reflected in Specification Section 32 10 00, Bases, Ballasts, Paving, and Edging.
- 2.** The Salvaged Paver Banding on Concrete detail (7/L7.0) and specifications (in 32 10 00) have been revised to utilize a bituminous setting bed rather than a mortar setting bed.
- 3.** There is an existing concrete mow strip along the northern property line. The drawings have been clarified (L1.0, L2.0, and L4.0) to reflect that that mow strip is intended to remain. Note that plant placement on L6.0 has been adjusted but the plant counts remain unchanged.
- 4.** There is an existing bicycle rack in the Medford Street sidewalk which was added during the project's design process and not captured on the initial drawings. L1.0, L2.0, and L3.0 have been revised to indicate that the bicycle rack should be removed and relocated (or replaced, should the contractor conclude that that is a less expensive or preferable option). Detail 9/L7.0 has been added to show the reinstallation of the bicycle rack, and it has been added to Section 32 33 00.
- 5.** The Engineering Department, as a permit condition, has required the removal of the connection to the existing street storm drainage system, and the replacement of the lower drain inlet with a leaching catch basin to which all other drainage in the park is connected. Sheets L1.0, L2.0 and L5.0 have been revised; accordingly, the drinking fountain detail 4/L7.2 has been revised to reflect the drain connection; and detail 10/L7.4 has been added for the Leaching Catch Basin.
- 6.** Drain cleanouts have been added to the ends of the perforated footer drain for the retaining wall. The cleanouts are shown in the new detail 9/L7.4.
- 7.** Water line sizes have been indicated on the Utility Plan (L5.0).
- 8.** Specification Section 01 41 00 Permits has been revised with updated Approval Conditions from the Engineering and Water Departments.

**End of Addendum 3.**



TMH  
RIM=77.9  
①

- LEGEND
- UTILITY POLE
  - WATER GATE
  - HYDRANT
  - GAS GATE
  - SEWER MANHOLE
  - DRAIN MANHOLE
  - CATCH BASIN
  - TREE
  - TREE
  - LIGHT POLE
  - SIGN
  - 71.4 X SPOT ELEVATION
  - EXISTING CONTOUR
  - ELECTRIC LINE
  - GAS LINE
  - FENCE
  - TREE LINE



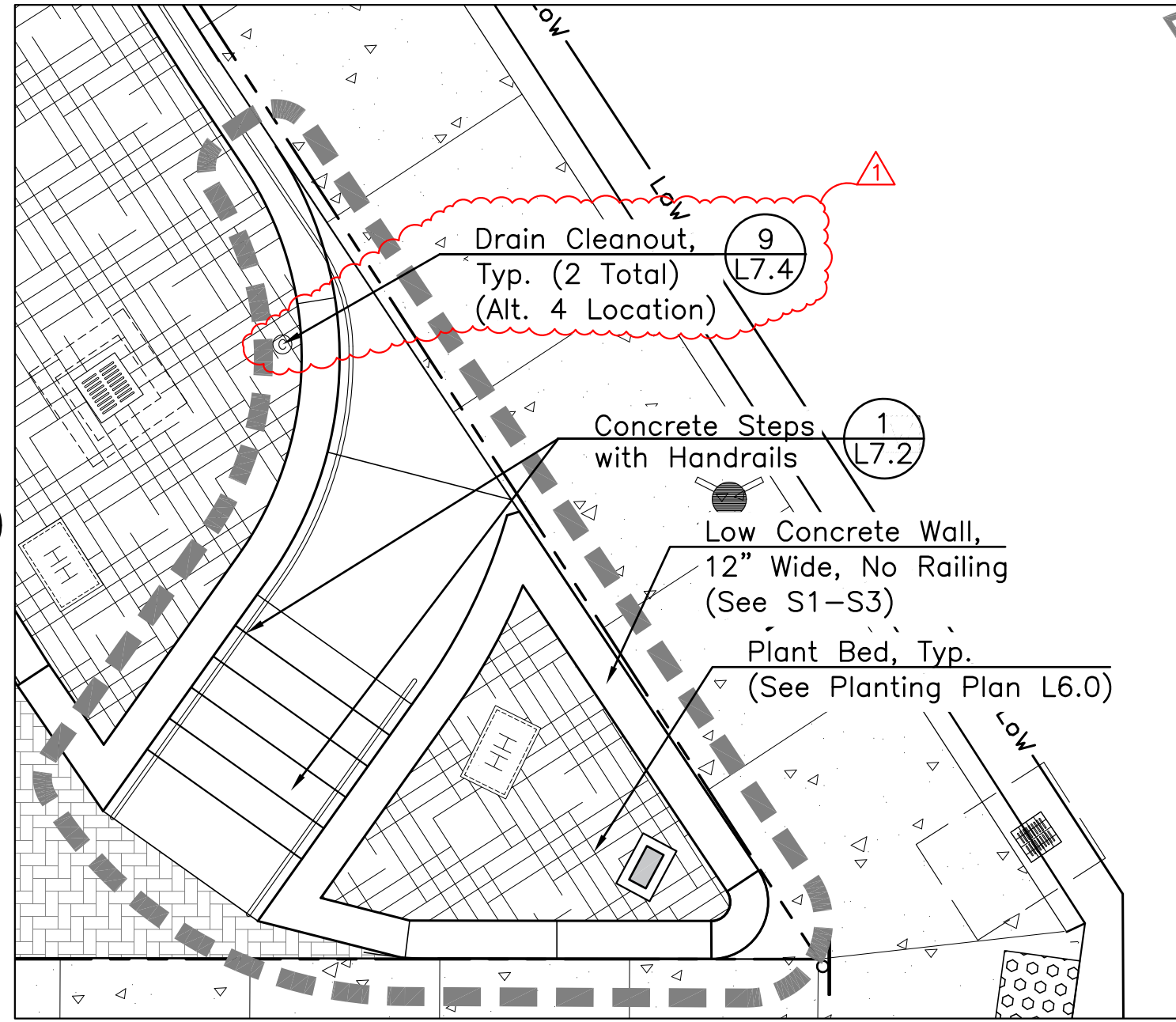
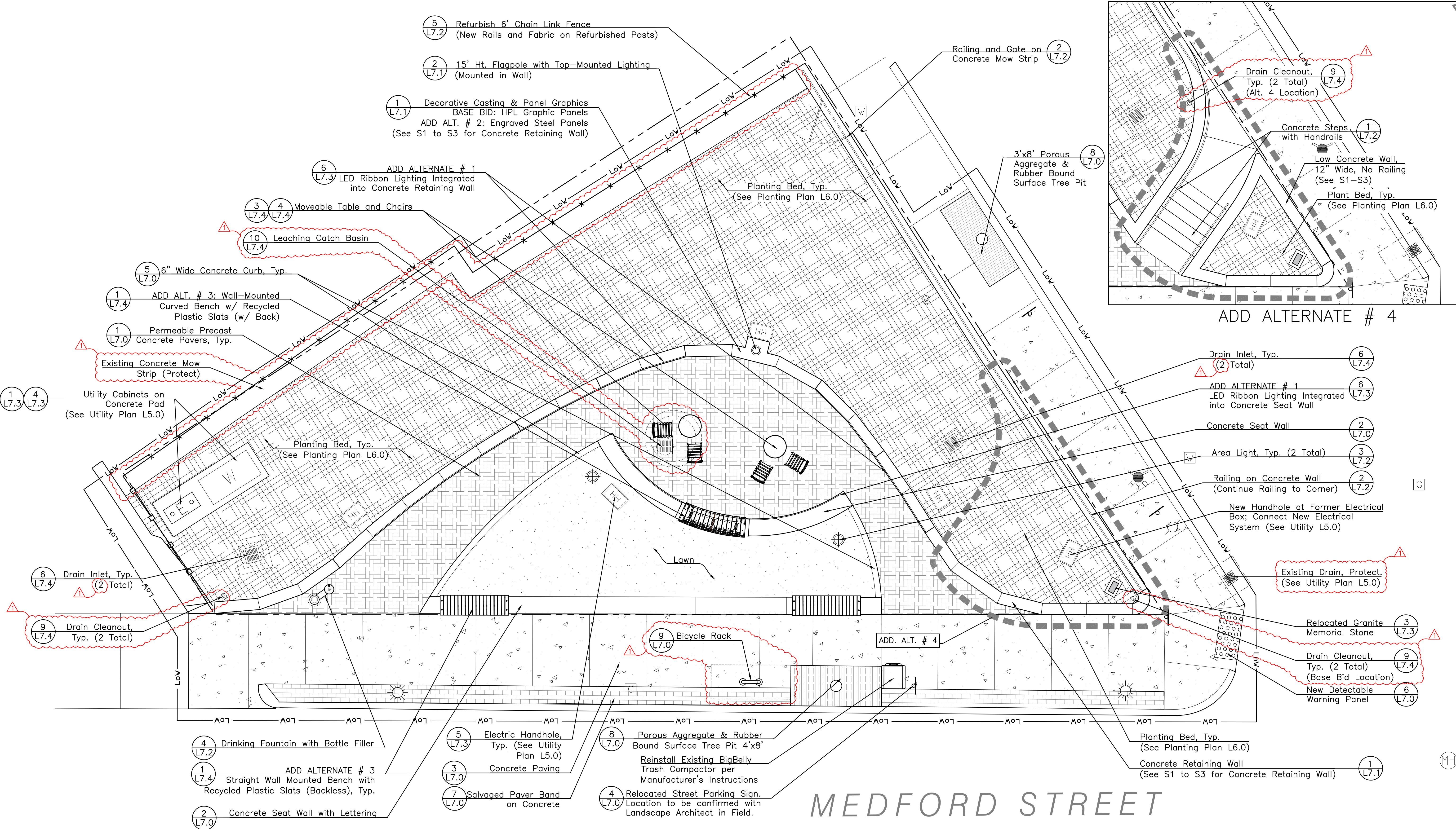
PLAN OF LAND IN  
SOMERVILLE, MA  
HENRY HANSEN PARK  
EXISTING CONDITIONS

SCALE: 1 IN. = 10 FT.  
DATE: MARCH 19, 2018  
DRAWN: GAR  
CHECK: BB

REVISIONS:	
3/28/18	VARIOUS

PROJECT NO. 25482





### MATERIALS NOTES

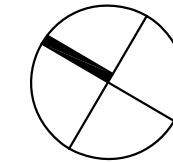
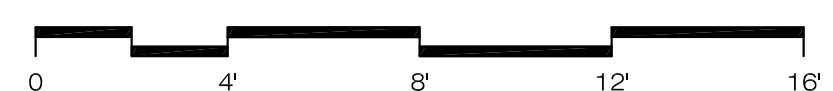
- The Contractor shall verify locations of and protect all utilities, drainage, and sub-drainage structures prior to commencing work. The Contractor will take sole responsibility for the cost incurred due to damage and replacement of all utilities damaged on the site.
- All site construction shall be in conformance with the Massachusetts Department of Transportation (MassDOT) Standard Specifications for Highways and Bridges, and the City of Somerville DPW.
- Contractor shall verify all dimensions and elevations on the ground and report any discrepancies to the Landscape Architect prior to commencing construction.
- All utility & drain lines to be coordinated with footings for site features.
- Repair any damage to existing site features to remain and to any disruption beyond the limit of work.

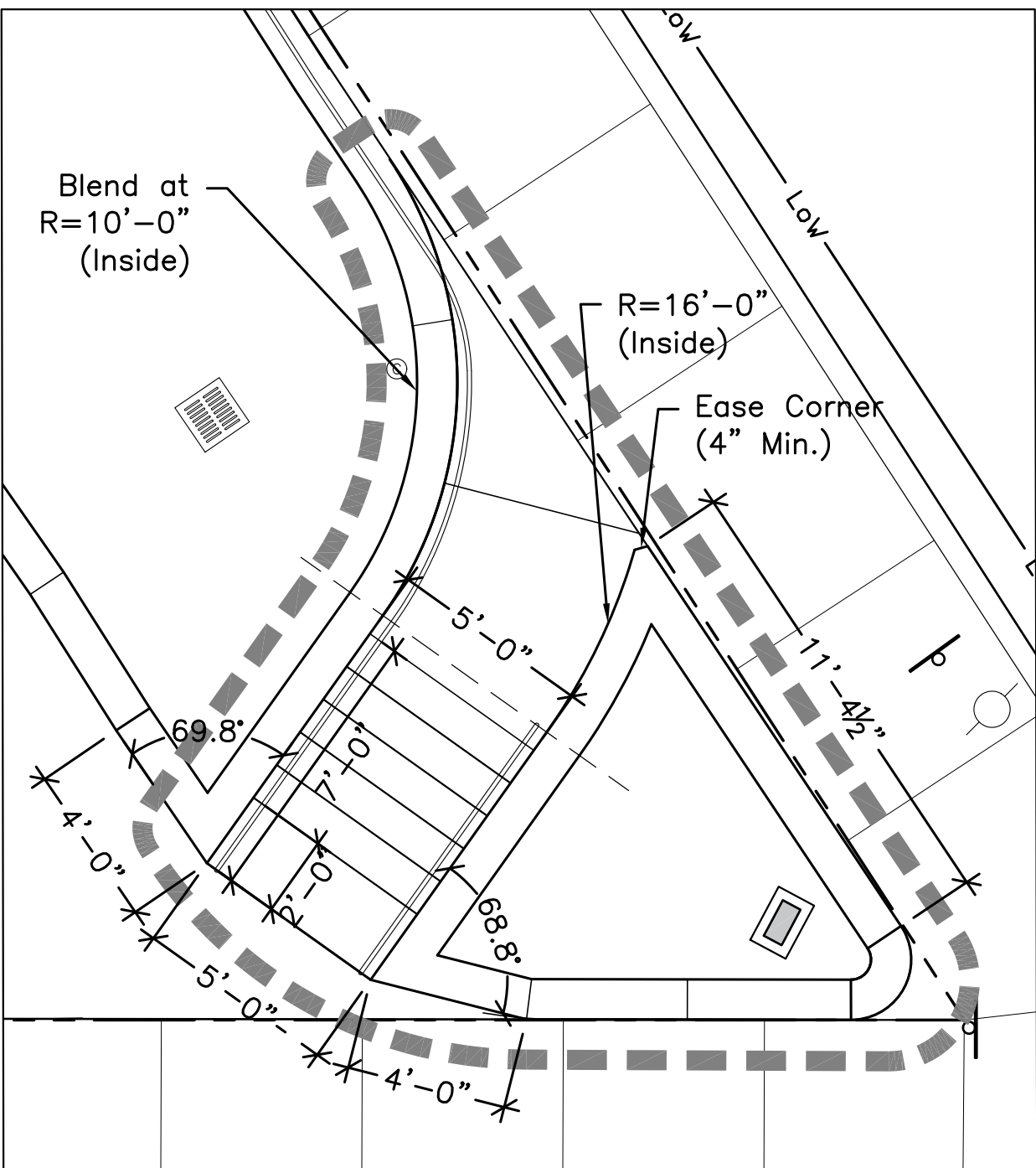
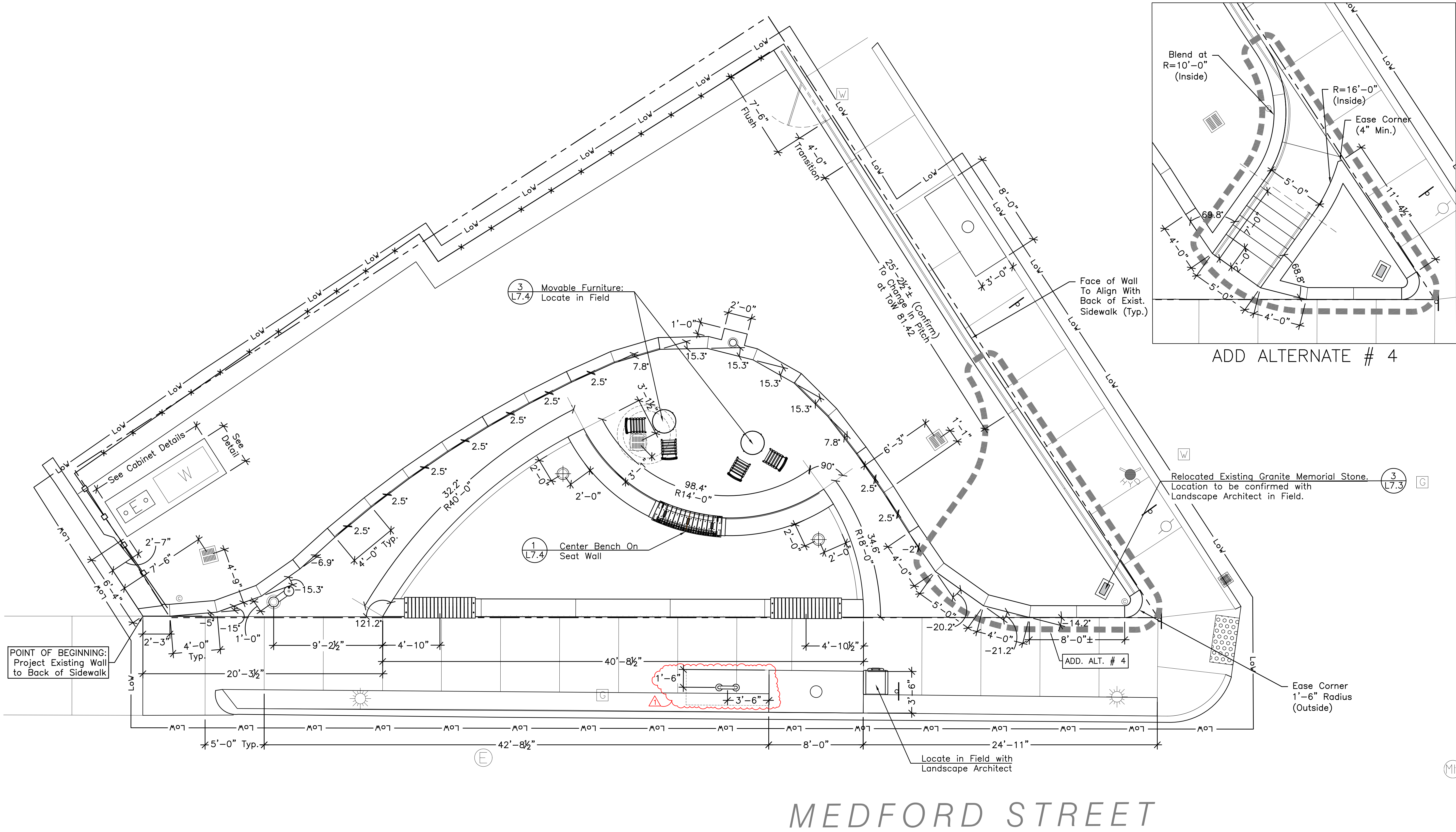
### ADD ALTERNATES

- ADD ALTERNATE #1**
- LED Ribbon Lighting Integrated into Concrete Retaining Wall
- ADD ALTERNATE #2**
- Engraved Steel Panels
- ADD ALTERNATE #3**
- Straight and Curved Wall Mounted Benches (3 Total)
- ADD ALTERNATE #4**
- Concrete Steps with Handrails
  - \*Deduct Indicated Plantings (See L6.0)

### MATERIALS LEGEND

- Property Line
- LoW Limit of Work
- New Concrete
- Planting Bed





ADD ALTERNATE # 4

# HENRY HANSEN PARK

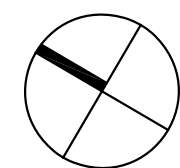
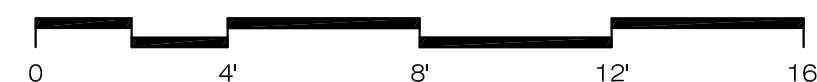
Somerville, Massachusetts  
Layout Plan

## LAYOUT NOTES

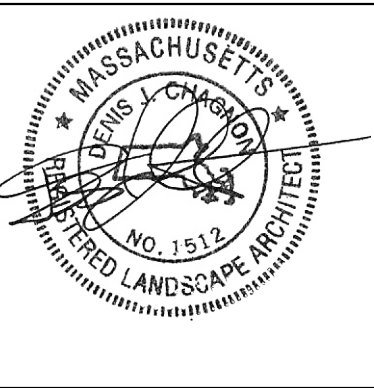
- The Contractor shall verify location of and protect all utilities, drainage, and sub-surface drainage structures. All utility lines and subsurface drainage to be coordinated with footings for site features.
- Contractor shall verify all dimensions and elevations on the ground and report any discrepancies to the Landscape Architect before commencement of construction.
- Contractor shall stake layout of plan on the site for approval of Landscape Architect before commencement of construction. All curves shall be staked with markers at a minimum of one every two feet.
- Property lines shall be marked in the field by a Registered Surveyor, and all Layout shall be performed by a Registered Surveyor or via GPS. An AutoCAD file will be provided to the Contractor for use in GPS based layout at the Contractor's request.
- Where not otherwise indicated, all dimensions are to the faces of curbs and walls and to the centerlines of paths or other items shown. Dimensions are measured perpendicular to guidelines, centerlines, and features unless otherwise indicated.
- All Layout shall be by the dimensions noted or via GPS; do not scale directly from the plan. If clarification regarding a dimension or layout order is required, the Contractor shall contact the Landscape Architect.
- Dimensions marked with "±" and/or "(V.I.F.)" are intended for confirmation of conformance to the expected conditions and (where applicable) that acceptable slopes and clearances are provided. Once layout has been established using other dimensions, the Contractor shall verify these dimensions (to within a tolerance of 1/2") and report any discrepancy to the Landscape Architect for acceptance or instruction regarding adjustment. These dimensions should not be used to lay out elements.

## LAYOUT LEGEND

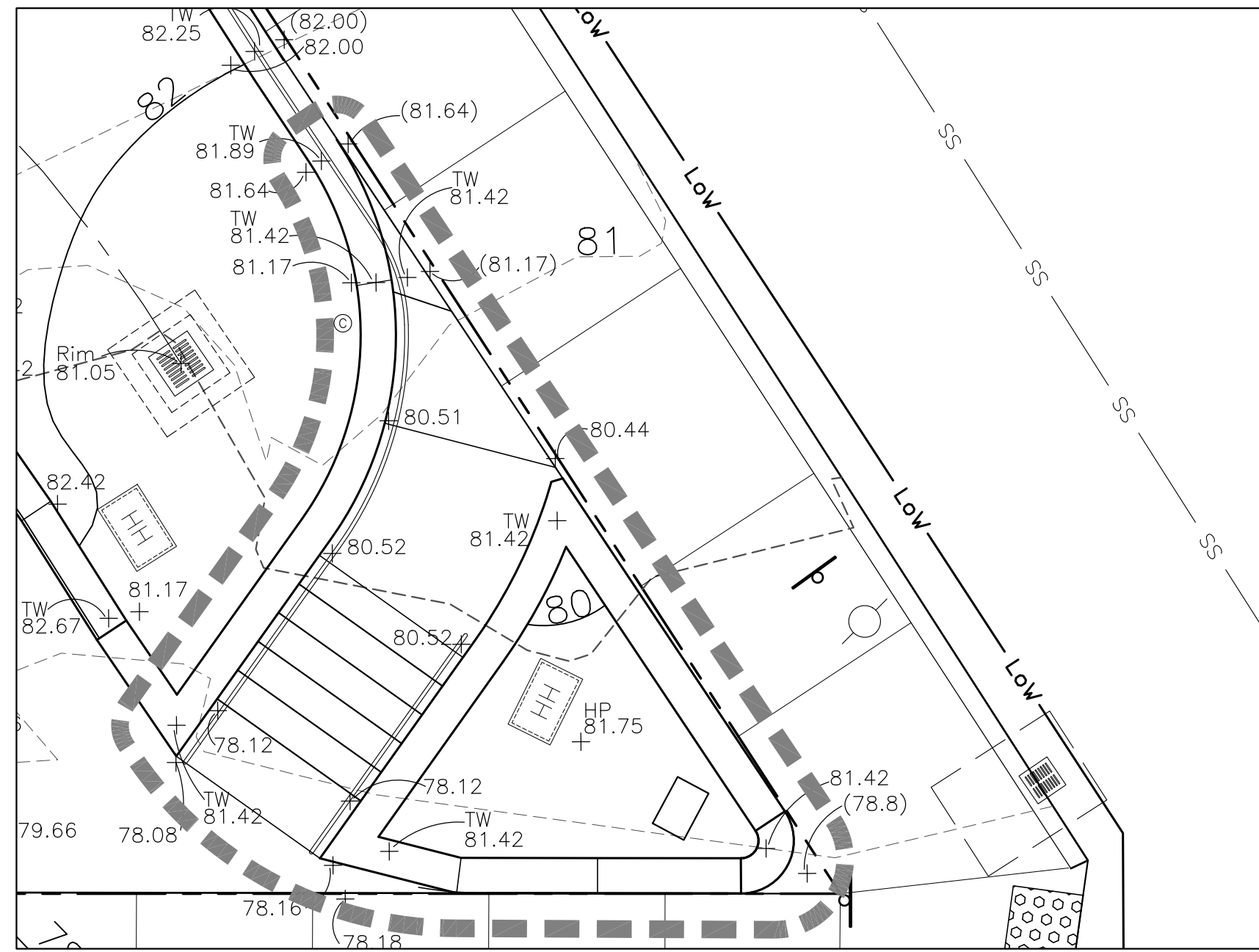
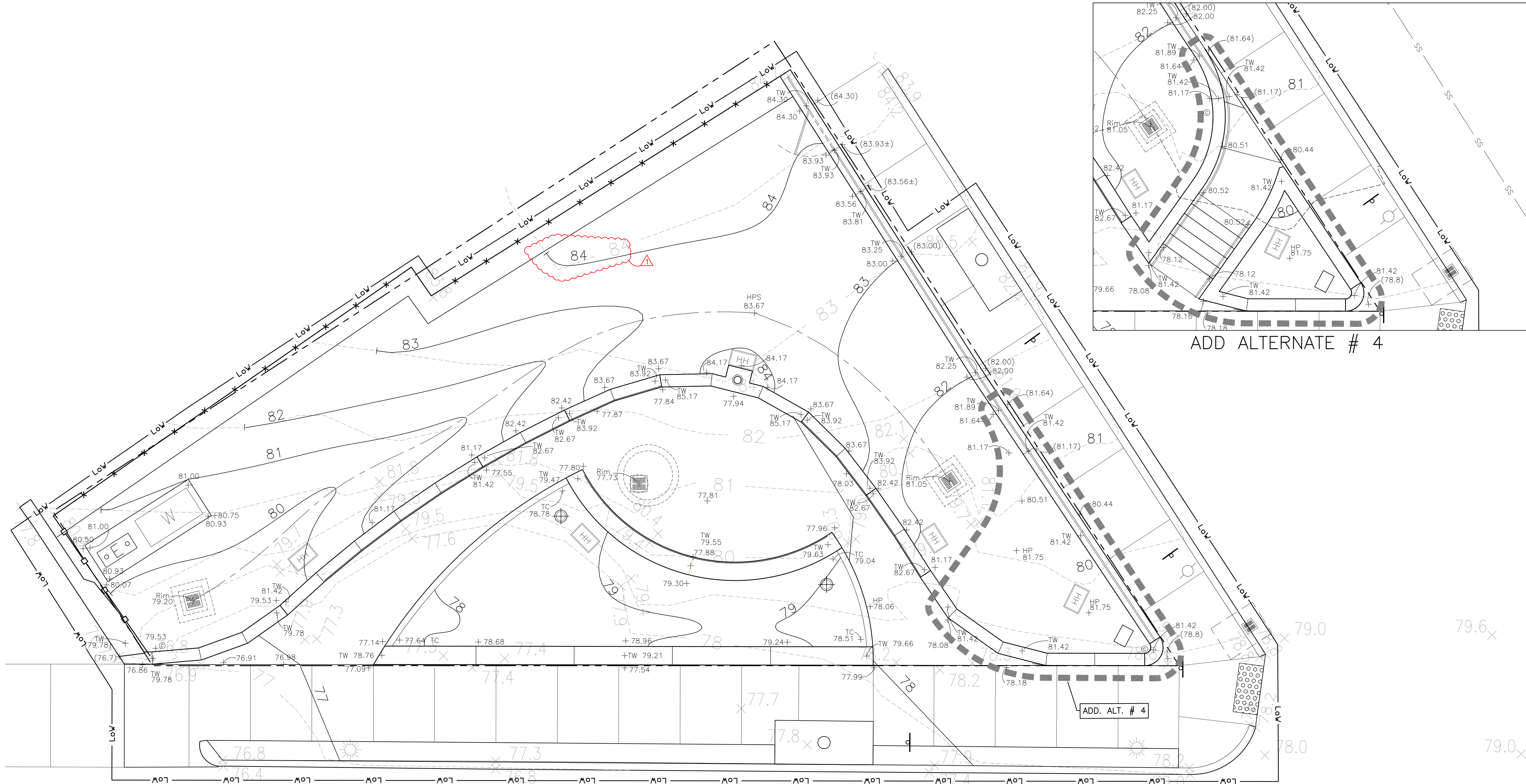
- Property Line  
— LoW — Limit of Work



DATE:	02-02-2024
SCALE:	1/4" = 1' - 0"
FILE:	HEN_1802_L3_Lay.dwg
DWN BY:	VC/JHC
CKD BY:	DJC
PROJ. #:	1802



L3.0



ADD ALTERNATE # 4

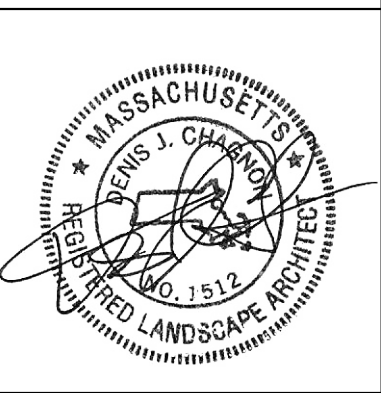
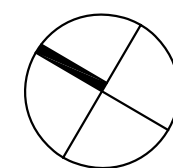
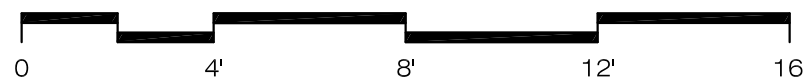
## GRADING NOTES

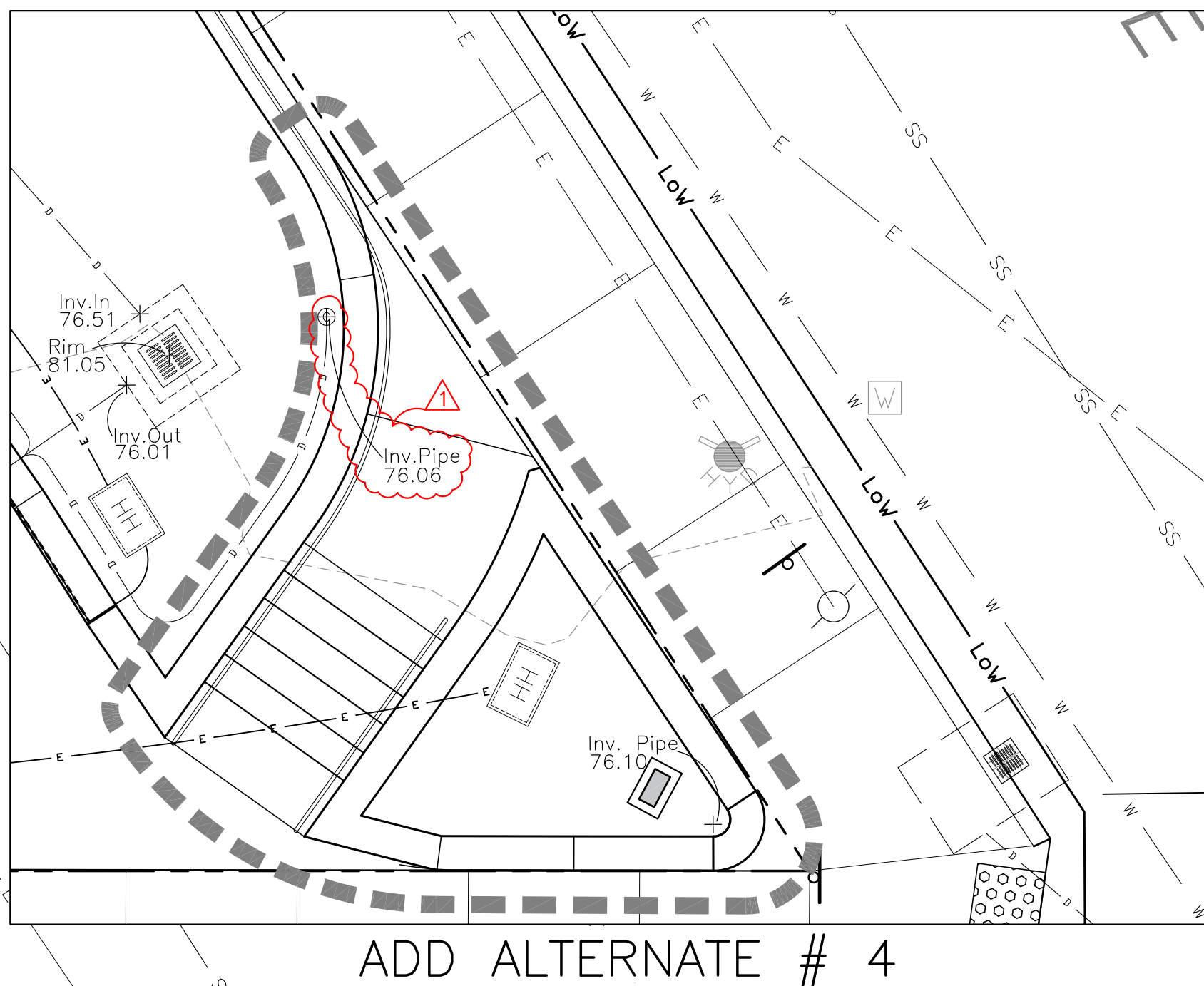
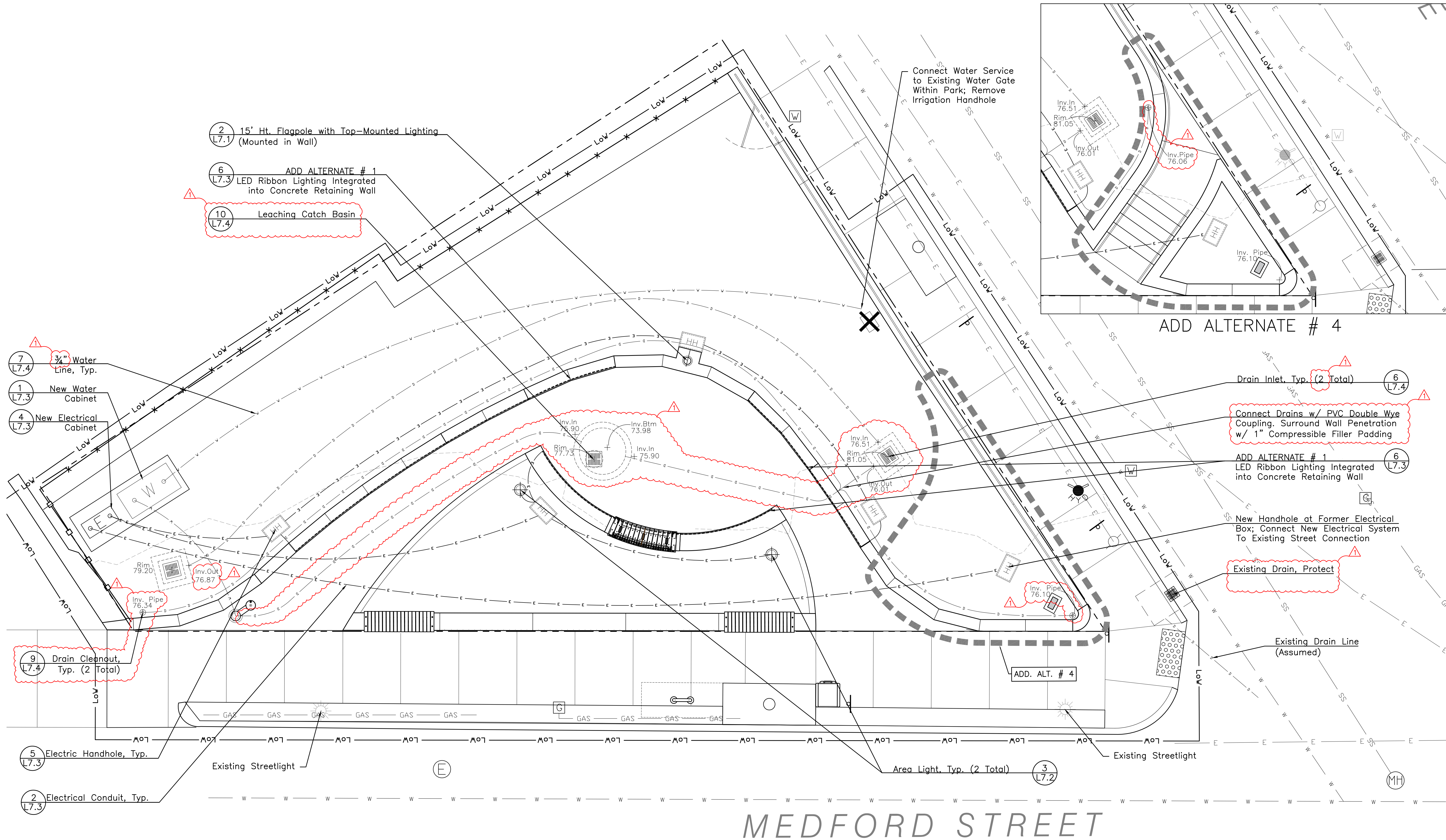
1. The Landscape Contractor shall verify location of and protect all utilities, drainage, and sub-drainage structures prior to commencing work.
2. All site construction shall be in conformance with the Massachusetts Department of Transportation (MassDOT) standard specifications for highways and bridges, and the City of Somerville DPW.
3. Landscape Contractor shall verify all utility locations, dimensions and elevations on the ground and report any discrepancies to the Landscape Architect prior to commencing construction. Before construction starts all utility companies (public and private) must be contacted, including those in control of utilities not shown on this plan. Contact "Dig Safe" and report any discrepancies in writing to the Landscape Architect and receive written instructions before proceeding.
4. The Contractor shall verify all existing grades in the field and then report any discrepancies to the Landscape Architect.
5. Grade stakes to be set for approval by the Landscape Architect prior to installation of gravel bases and prior to all paving, edges, and walls.

6. All transitions to existing grades to be smooth and gradual.
7. Pitch evenly between spot grades. Any discrepancies not allowing an even pitch to occur shall be reported to the Landscape Architect prior to continuing work.
8. All stairs shall have a wash, not to exceed  $\frac{1}{4}$ " per foot unless specified by the Landscape Architect.
9. Handicap Accessible Areas shall be in conformance with the rules and regulations of the Architectural Access Board and the American With Disabilities Act.
10. All utility & drain lines to be coordinated with footings for site features.
11. Repair any damage to existing site features to remain and to any disruption beyond the limit of work.

## GRADING LEGEND

- Property Line
- LoW — Limit of Work
- - - - - Existing Contour
- 78 — Proposed Contour
- + 79.24 Proposed Spot Grade
- + (81.42) Existing Spot Grade





## UTILITY NOTES

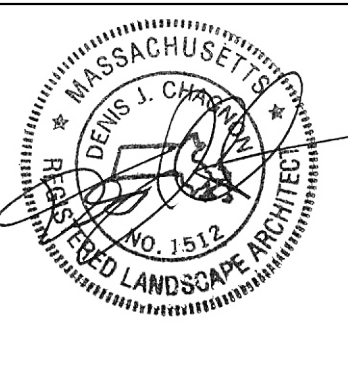
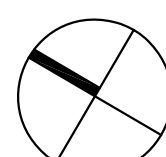
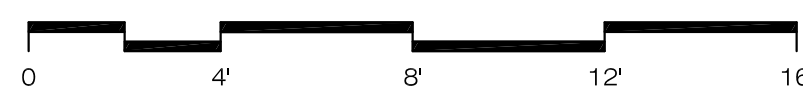
- GENERAL:**
- The Landscape Contractor shall protect all utilities prior to starting construction.
  - All plumbing and electrical work shall comply with local, state and federal codes and with all City of Somerville standards. All services abandoned, discontinued, or terminated as part of the work shall be made safe according to the applicable codes. Structures abandoned as part of the work shall be removed and disposed of.
  - All covers & rims for drainage and utility structures are to be ADA compatible; replace covers which are not ADA compliant.
  - Proposed conduit and water supply lines shown are schematic layouts only; adjust as needed to avoid footings and existing structures. Contractor shall submit proposed conduit layout, wiring, and plumbing diagrams for approval before beginning utility work, and shall submit as-built drawings showing installed line locations upon completion.

- WATER:**
- The Contractor shall furnish and install a new above-grade Water Cabinet on concrete pad at the location shown on the plans, supplied from the existing street line as needed.
- ELECTRICAL:**
- Extend existing electrical connection from current meter post to new electrical cabinet as shown; remove meter post and electrical box and replace with lockable in-ground handhole to facilitate connection.
  - All Conduit to be 1 1/2" minimum unless otherwise approved.

- DRAINAGE:**
- Landscape Contractor to verify all invert elevations prior to construction.
  - All covers & rims for drainage and utility structures are to be ADA compatible; replace covers which are not ADA compliant.
  - Proposed drain lines shown are schematic layouts only; adjust as needed to avoid footings and existing structures. Contractor shall submit as-built drawings showing installed locations upon completion.

## UTILITY AND LIGHTING LEGEND

- |     |                     |     |                            |
|-----|---------------------|-----|----------------------------|
| --- | Property Line       | SS  | (SS) Sewer Line            |
| LoW | Limit of Work       | GAS | Gas Line                   |
| W   | (W) Water Line      | E   | New Electrical Cabinet     |
| D   | (D) Drain Line      | W   | New Water Cabinet          |
| E   | (E) Electrical Line | ⊕   | Area Light with GFCI, Typ. |

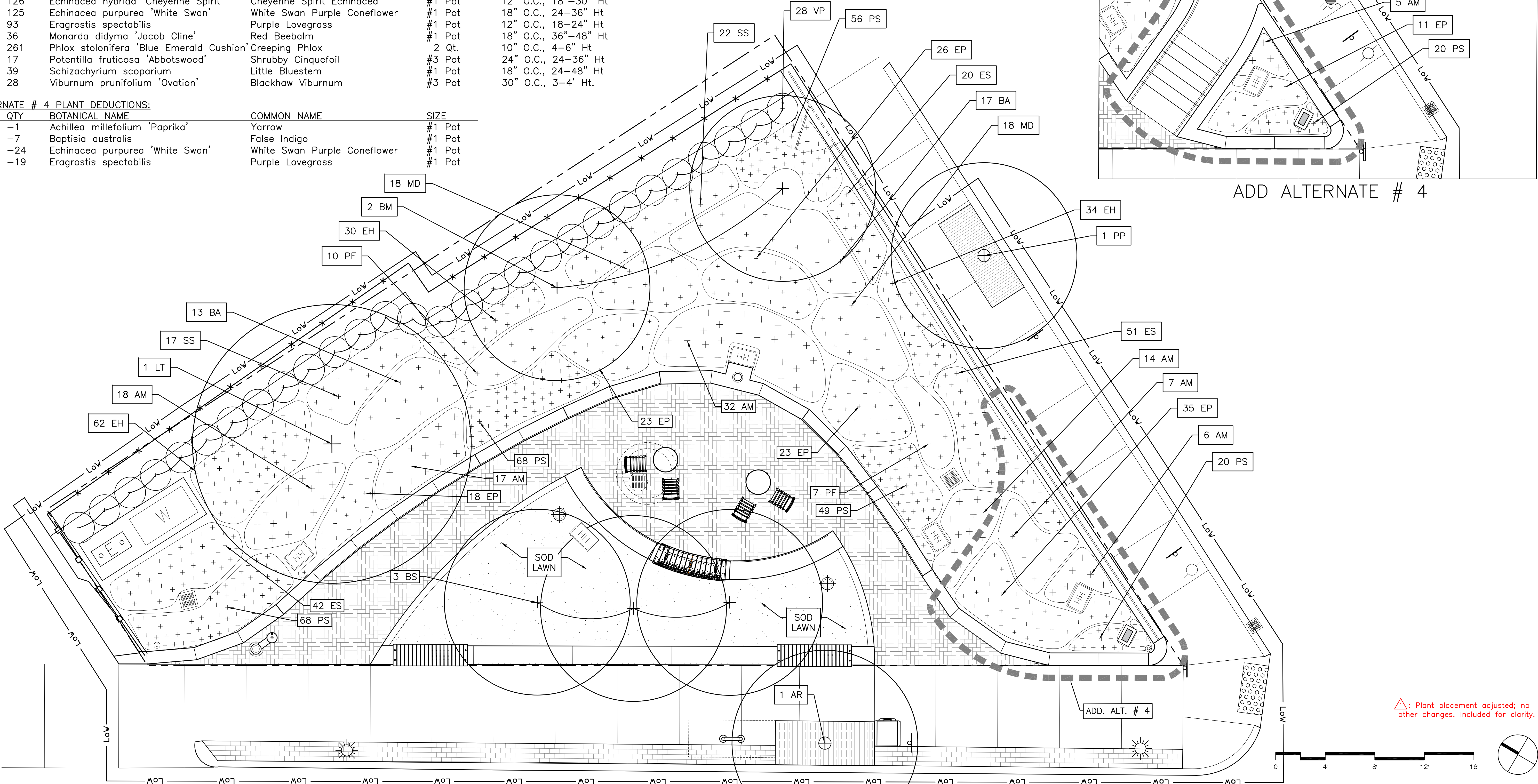


PLANTING LIST

TREES					
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
AR	1	Acer rubrum	Red Maple	3-3.5" Cal., B&B	
LT	1	Liriodendron tulipifera	Tulip Tree	3.5-4" Cal., B&B	
PP	1	Parrotia persica	Persian Ironwood	3-3.5" Cal., B&B	
BM	2	Betula nigra 'Cully' Heritage (clump)	Heritage River Birch	3-3.5" Cal., B&B	Multi-stem
BS	3	Betula nigra 'Cully' Heritage (single)	Heritage River Birch	3-3.5" Cal., B&B	Single stem

SHRUBS, PERENNIALS AND GRASSES					
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
AM	87	Achillea millefolium 'Paprika'	Yarrow	#1 Pot	12" O.C., 12-24" Ht
BA	37	Baptisia australis	False Indigo	#1 Pot	18" O.C., 18-24" Ht
EH	126	Echinacea hybrida 'Cheyenne Spirit'	Cheyenne Spirit Echinacea	#1 Pot	12" O.C., 18"-30" Ht
EP	125	Echinacea purpurea 'White Swan'	White Swan Purple Coneflower	#1 Pot	18" O.C., 24-36" Ht
ES	93	Eragrostis spectabilis	Purple Lovegrass	#1 Pot	12" O.C., 18-24" Ht
MD	36	Monarda didyma 'Jacob Cline'	Red Beebalm	#1 Pot	18" O.C., 36"-48" Ht
PS	261	Phlox stolonifera 'Blue Emerald Cushion'	Creeping Phlox	2 Qt.	10" O.C., 4-6" Ht
PF	17	Potentilla fruticosa 'Abbotswood'	Shrubby Cinquefoil	#3 Pot	24" O.C., 24-36" Ht
SS	39	Schizachyrium scoparium	Little Bluestem	#1 Pot	18" O.C., 24-48" Ht
VP	28	Viburnum prunifolium 'Ovation'	Blackhaw Viburnum	#3 Pot	30" O.C., 3-4' Ht.

ALTERNATE # 4 PLANT DEDUCTIONS:					
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
AM	-1	Achillea millefolium 'Paprika'	Yarrow	#1 Pot	
BA	-7	Baptisia australis	False Indigo	#1 Pot	
EP	-24	Echinacea purpurea 'White Swan'	White Swan Purple Coneflower	#1 Pot	
ES	-19	Eragrostis spectabilis	Purple Lovegrass	#1 Pot	



PLANTING NOTES

- The Contractor shall protect all utilities prior to starting construction.
- The Contractor shall supply all plant materials in quantities sufficient to complete all planting shown on this drawing.
- All plant materials to conform to guidelines established by the American Standard for Nursery Stock published by the American Assn. of Nurserymen.
- All plant materials to be selected by the Landscape Architect at the nursery unless otherwise directed by the Landscape Architect.
- All plants to be located on the site for approval of the Landscape Architect prior to installation.
- If the Plant List does not agree with the Planting Plan, the Plan shall be followed.
- The Contractor shall guarantee all plant materials for one year following installation.
- All plant beds to receive 3" un-dyed shredded bark mulch; supply sample for approval by Landscape Architect.
- All lawn areas to be sod. Remove old lawn, weeds and mulch and rototill. Add topsoil so that all lawn areas have a minimum 6" depth of topsoil. See specs for soil and sod requirements, maintenance and warranty.
- No substitution of plant materials shall be allowed without approval of Landscape Architect.

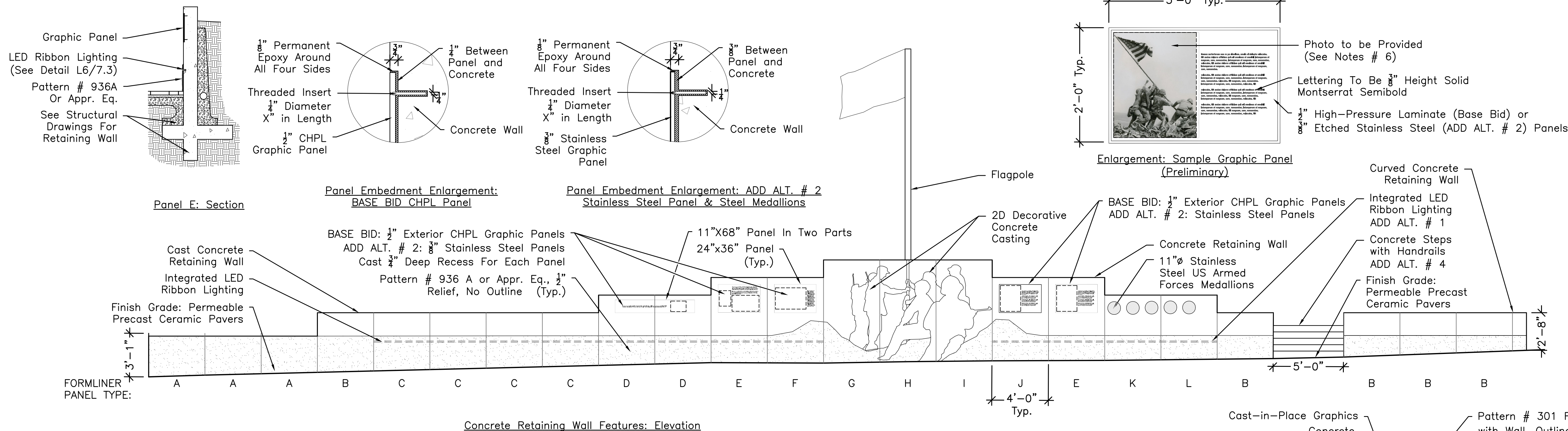
IRRIGATION NOTES

- Irrigation system to be design/build. Irrigation company and design to be approved by Landscape Architect; provide plan for approval, before installation begins. See specifications, section 32 80 00.
- Control box and clock to be approved and shall be sized to provide 100% coverage of all proposed planting beds and lawns. Control box to have a maximum of eight (8) zones and to be located within the new water cabinet.
- 'Pop-up' spray heads for use in lawn areas and trees. 'Drip' system for use in all perennial and new shrub beds. Drip for the new shrub beds shall not be installed until after plants are installed. Existing perimeter shrub beds to be irrigated by over spray from lawn areas.
- Irrigation system to be guaranteed for one (1) year following installation. Contractor to provide first winterization and spring start up.
- Contractor to provide irrigation sleeves under paved areas. Seal all pipe ends and joints tightly.
- Contractor to provide an "As-Built Plan", which includes sleeve locations, zone information and Operation Instructions.
- Location of rain gauge to be determined in field with Landscape Architect and Owner.
- One irrigation "zone" shall be used to provide a time-controlled valve on the spray feature line, in order to limit spray operation to official park hours.

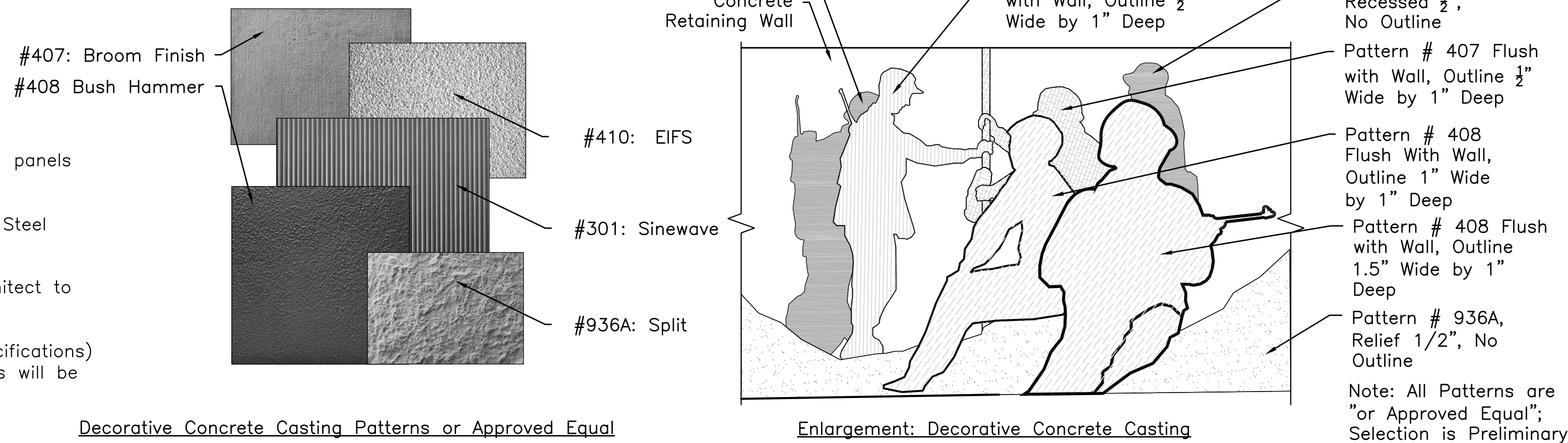
PLANTING LEGEND

- Property Line
- Limit of Work
- Porous Aggregate Surface Tree Pit
- Permeable Concrete Pavers



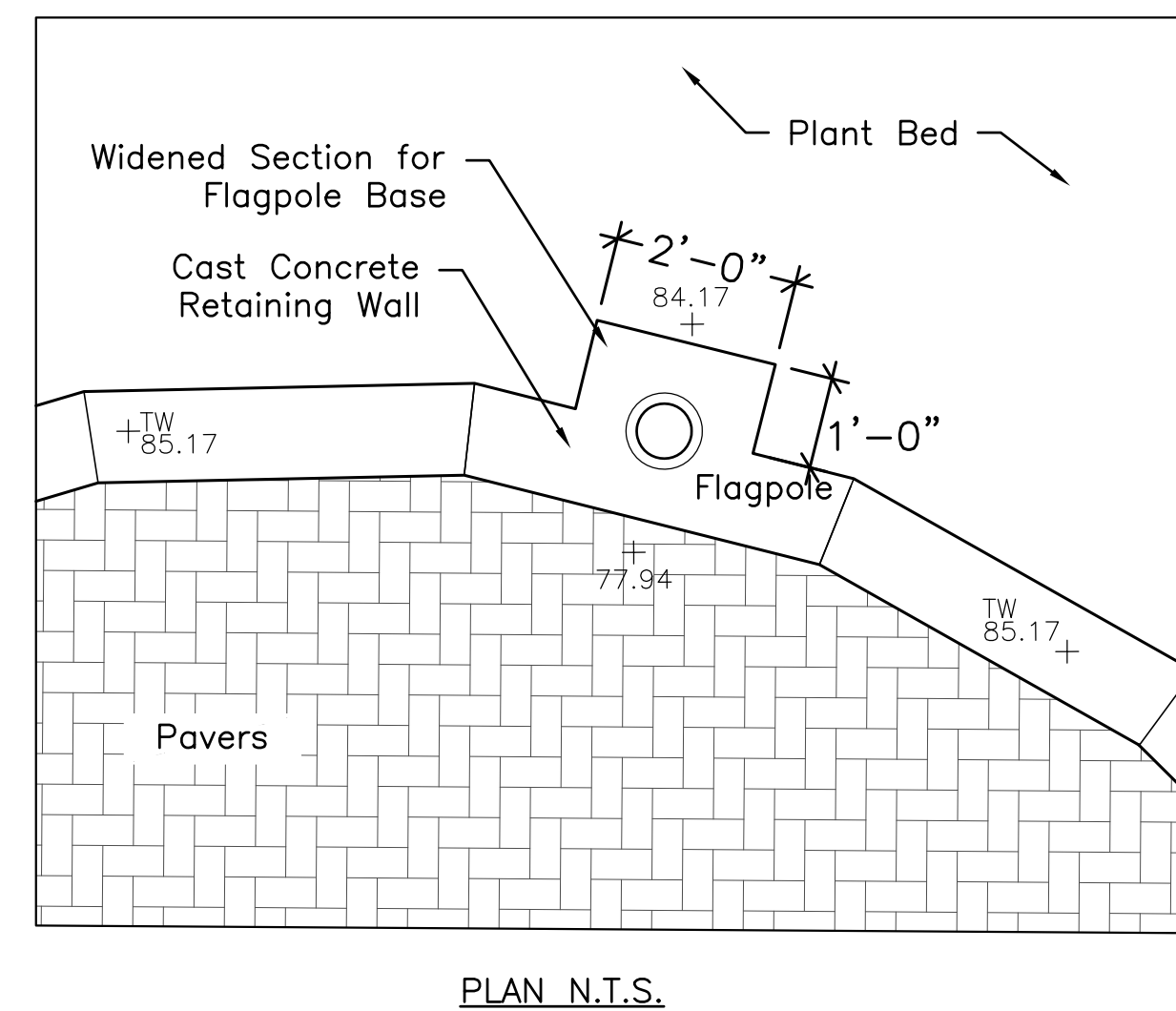
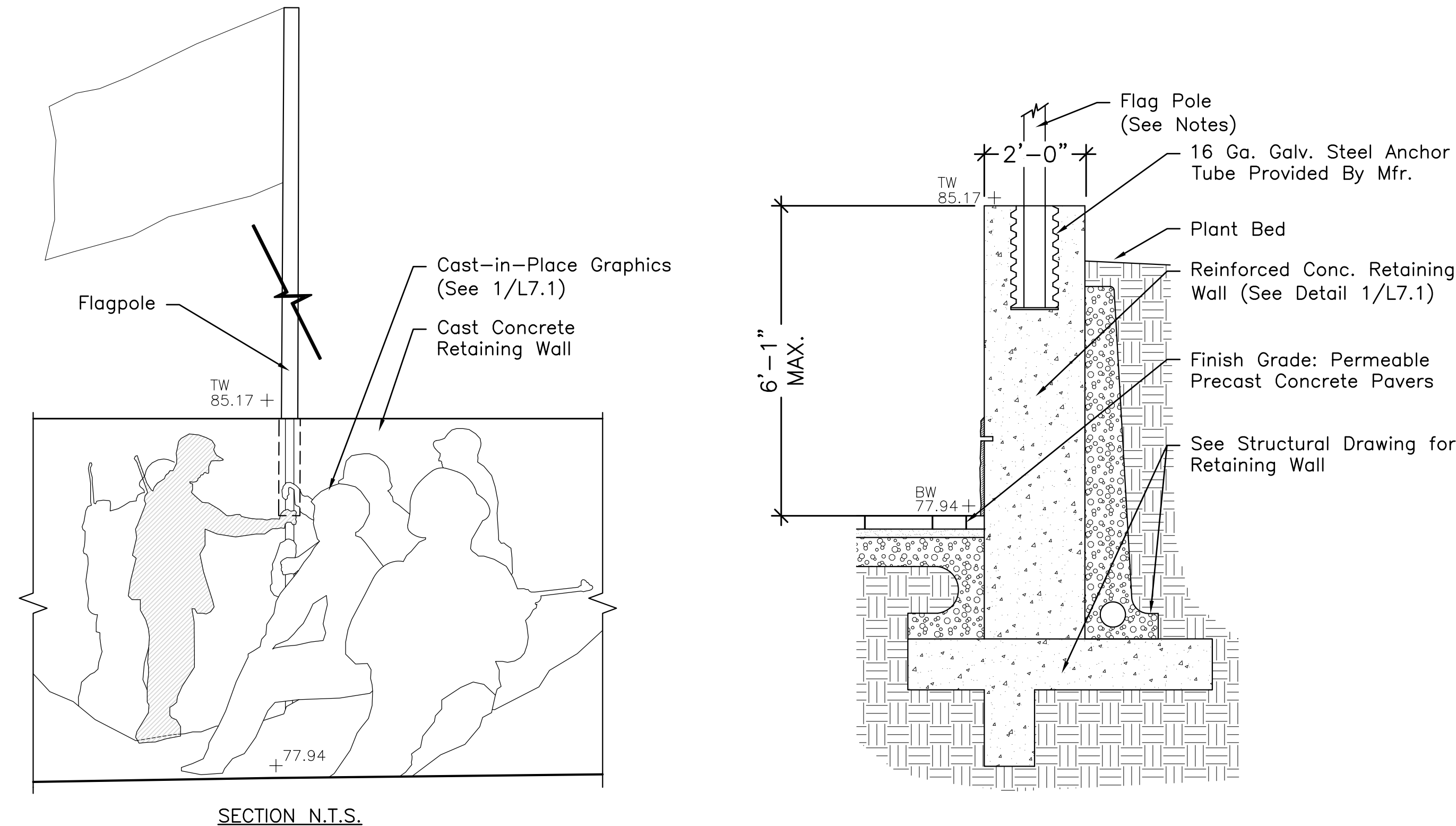


- NOTES:**
1. SHOP DRAWINGS REQUIRED FOR ALL FORM LINERS.
  2. Decorative Castings shall be created through the use of a set of custom Elastomeric, ABS, or HIPS formliners (depending on final application needs) as produced by Architectural Polymers Inc of Palmerton, PA or Approved Equal. Final design drawings to be provided for all wall panels by Landscape Architect to Contractor in coordination with system fabricator.
  3. BASE BID: Graphics Panels shall be High-Pressure-Laminate Panels as produced by Fossil Graphics; or Approved Equal.
  4. ALTERNATE # 2: Graphic Panels shall be etched 3/8" stainless steel panels with black paint fill; see specifications.
  5. US Armed Forces Branch Medallions shall be etched 3/8" Stainless Steel medallions with black paint fill (Base Bid); see specifications.
  6. Final design for all graphics shall be supplied by Landscape Architect to the fabricator(s) during construction.
  7. All pattern numbers are from basis-of-design supplier (see specifications) and are preliminary; if an alternate supplier is proposed, patterns will be selected by Landscape Architect.



## 1 DECORATIVE CASTINGS AND GRAPHIC PANELS ON CURVING CONCRETE RETAINING WALL

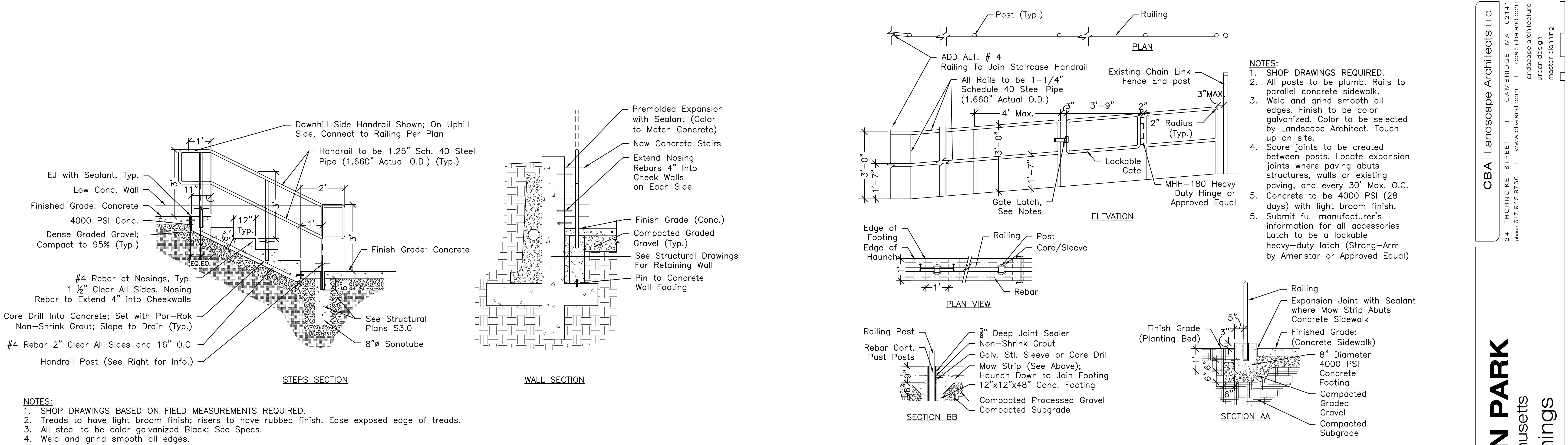
Scale: 1/4" = 1'-0"



- NOTES:**
1. SHOP DRAWINGS REQUIRED
  2. Flagpole to be 17 feet in total height, with 15 feet exposed, 5" butt diameter, and .188" thick walls of 6063-T6 aluminum, Satin finish.
  3. The flagpole shall be able to withstand a max unflagged wind speed of 145 mph and a max flagged wind speed of 101 mph.
  4. The flagpole is to have an internal rope-based halyard system with revolving truck and integrated Dark Sky compliant LED Downlight.
  5. Flagpole is to be Model SG-PA-GS-INT-RP-15x5x188-1-SAT by Eagle Mountain Flag & Flagpole, or Approved Equal.
  6. A United States Flag shall be supplied by the Landscape Contractor, 3'x5' Nom. Size, made of 200 denier outdoor nylon with canvas headers and brass grommets.
  7. Flagpole LED Down Light to be integrated with the Truck Assembly, SG-3K-IHROT-RP-100 by Eagle Mountain or Approved Equal.
  8. Down Light to be powered by Above-Ground Power Supply for Dome Downlight by Eagle Mountain Flag & Flagpoles, item code DDLA9DRIVER, or Approved Equal. Power Supply to be located in Electrical Cabinet. Or in adjacent handhole if rated for in-ground installation.

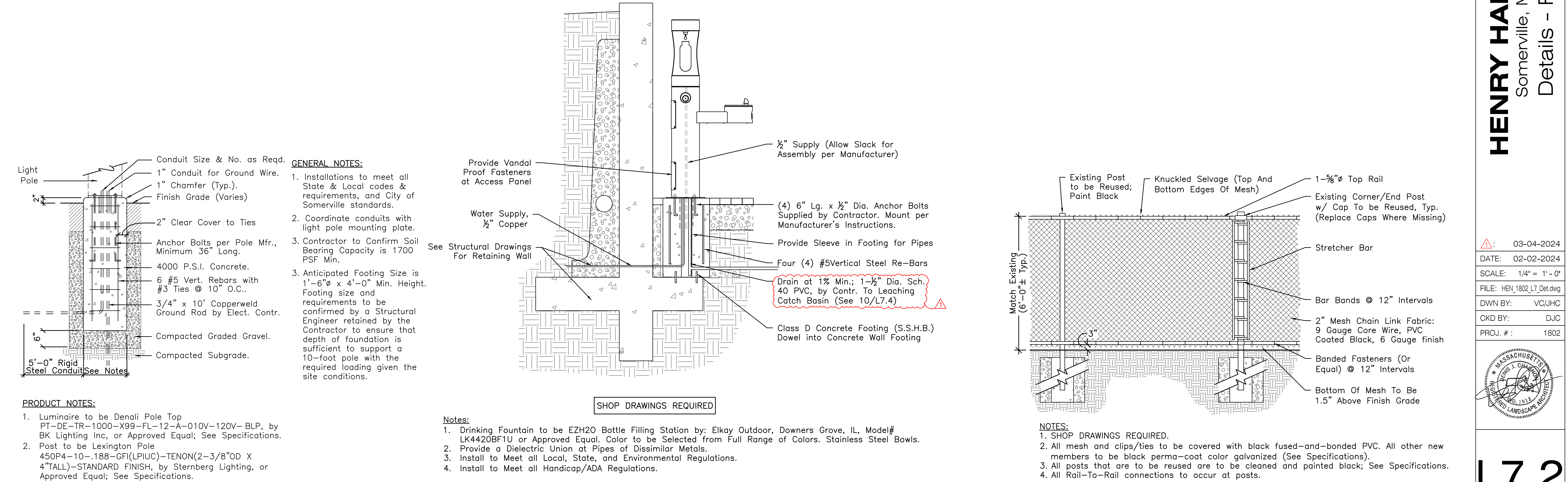
## 2 FLAGPOLE

Scale: 1/2" = 1'-0"



1 CONCRETE STEPS WITH HANDRAILS (ADD ALTERNATE # 4)  
Scale: 1/2" = 1'-0"

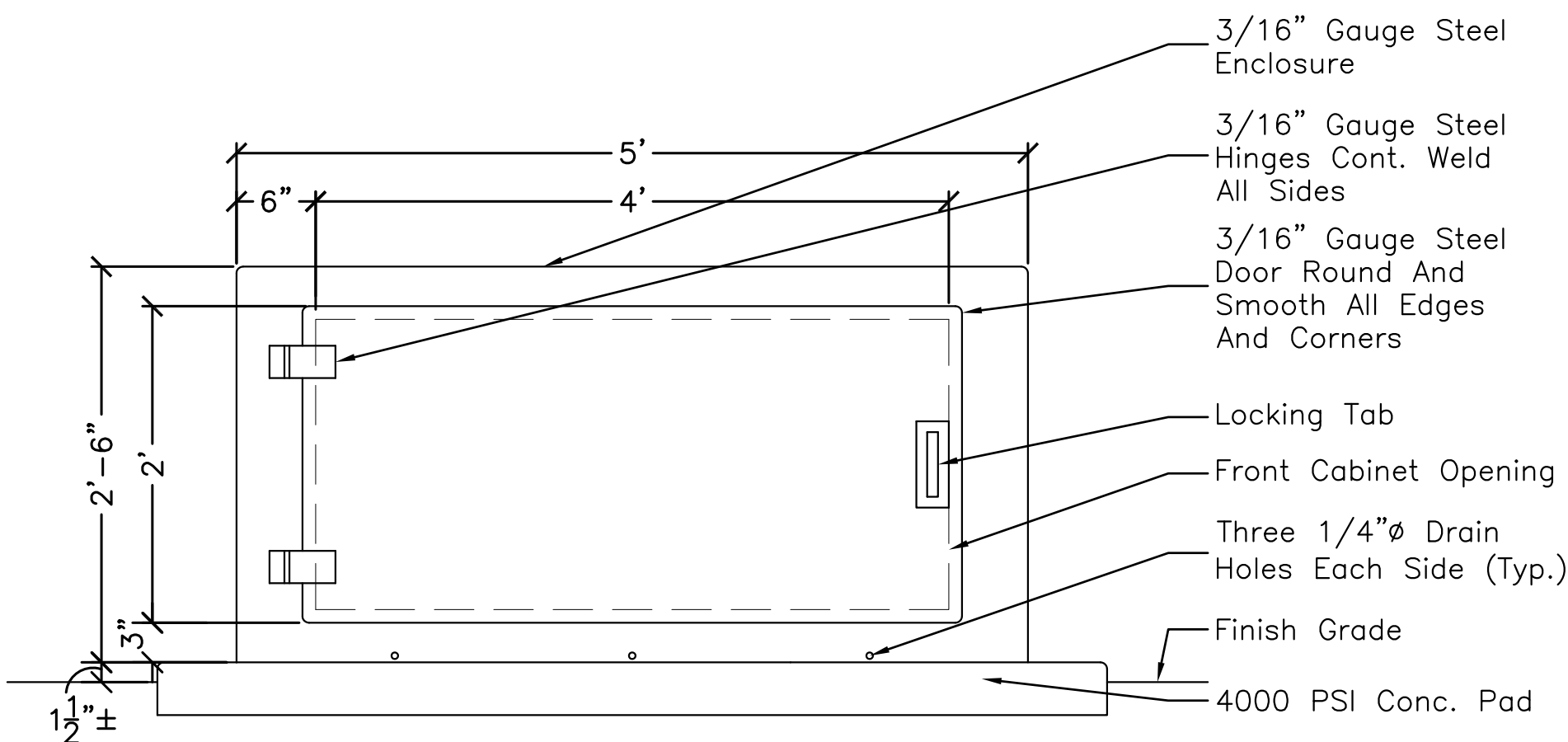
2 RAILING ON CONCRETE MOW STRIP  
1/2"=1'-0"



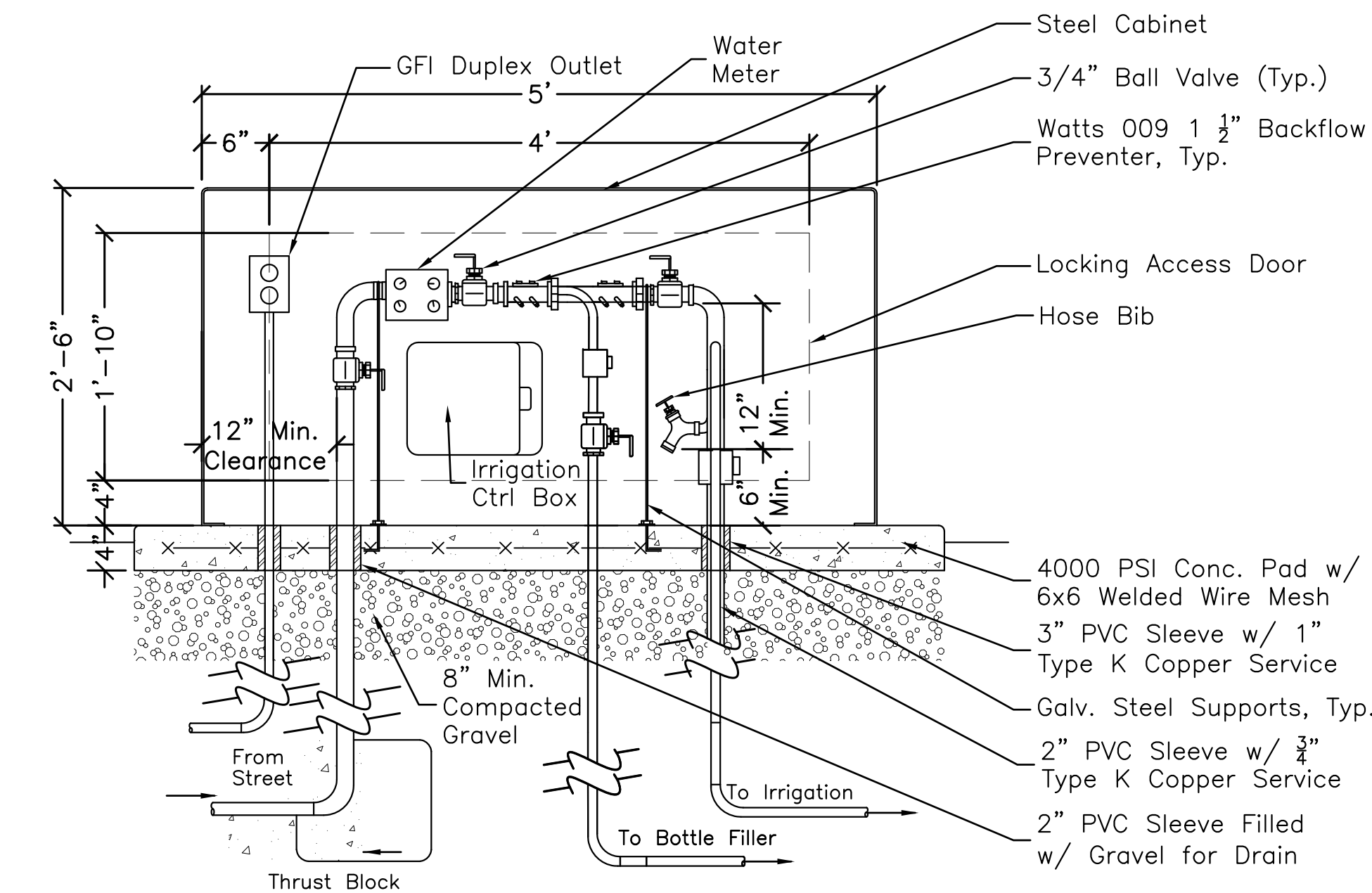
3 AREA LIGHT FOOTINGS & FIXTURE TYPE  
Scale: 3/4" = 1'-0"

4 DRINKING FOUNTAIN WITH BOTTLE FILLER  
Scale: 3/4" = 1'-0"

5 6' HT. BLACK CHAIN LINK FENCE W/ REUSED POSTS  
Scale: 1/2" = 1'-0"



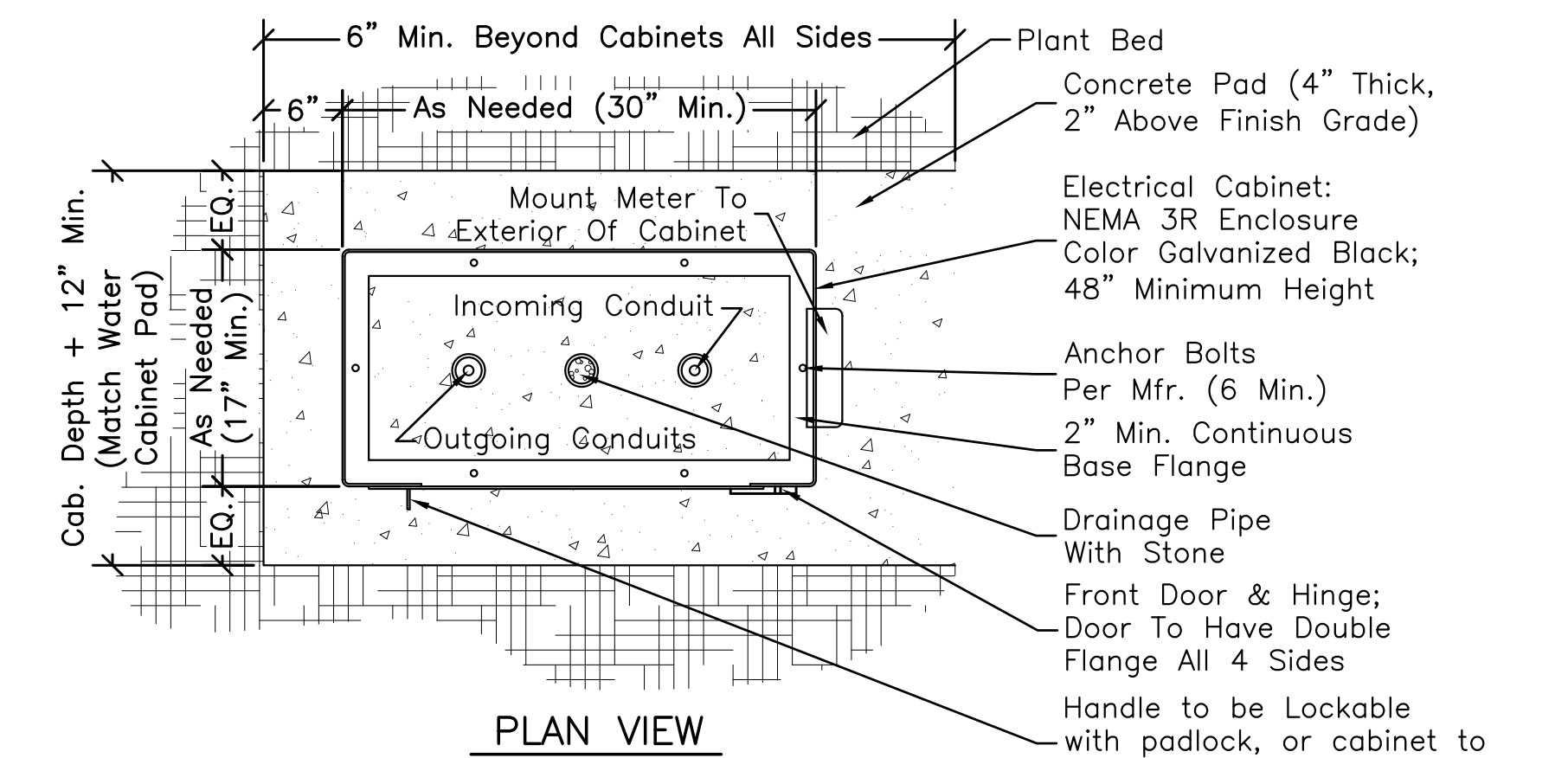
FRONT ELEVATION



SECTION

1 WATER CABINET WITH GFI ON CONCRETE PAD

Scale: 1" = 1'-0"



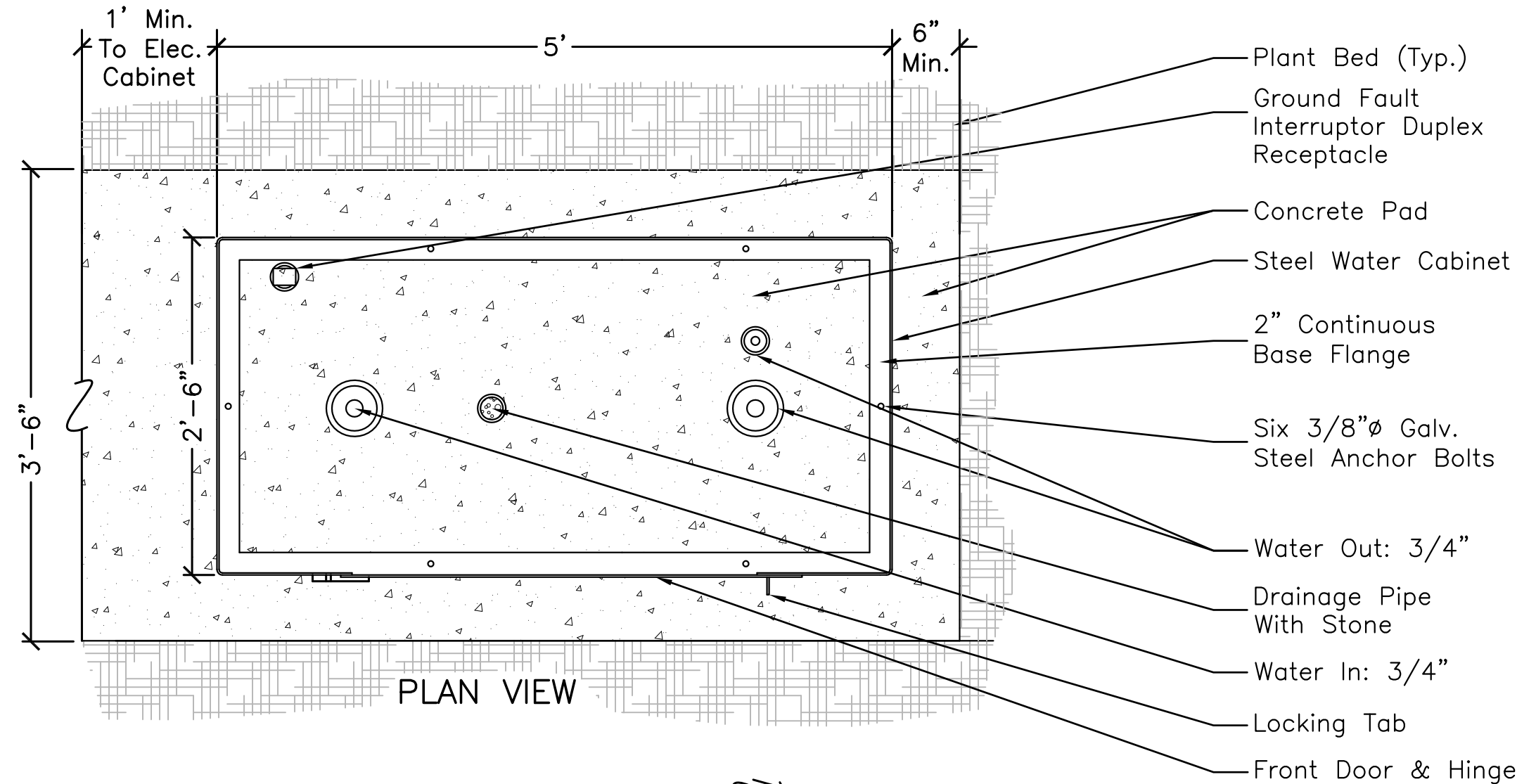
PLAN VIEW

SHOP DRAWINGS REQUIRED FOR CABINET & CONTENTS

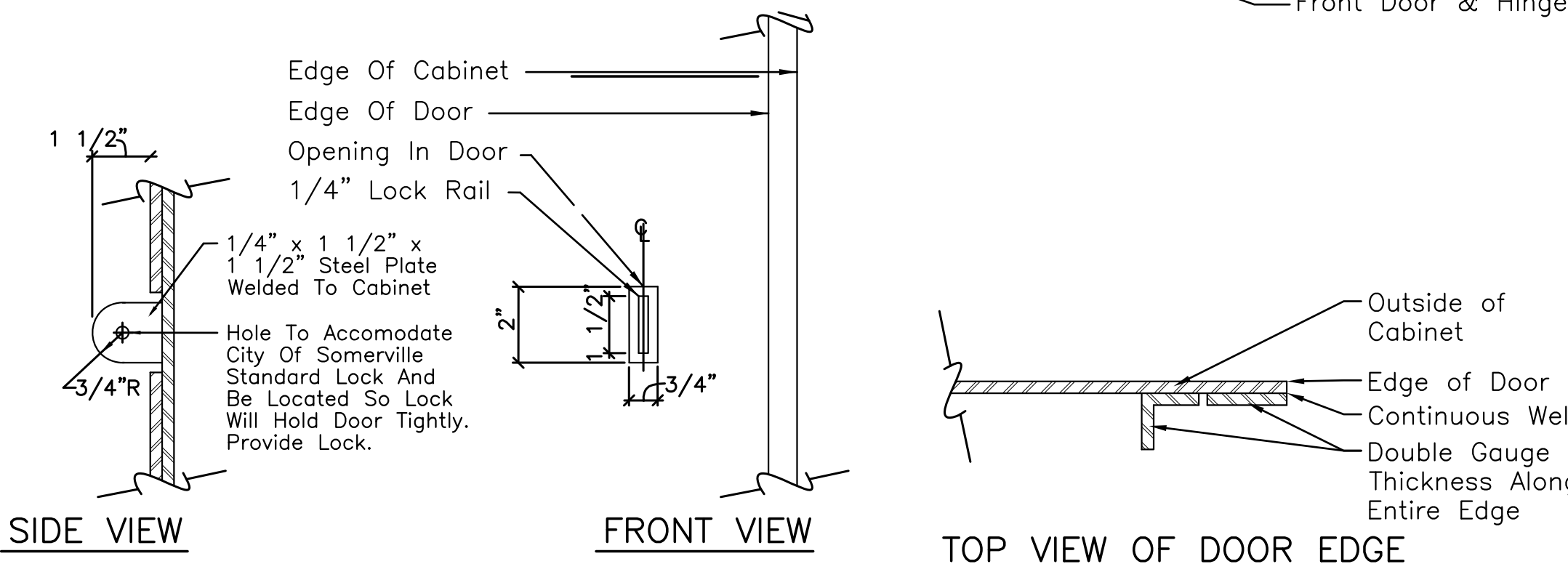
- NOTES:
- Contractor to purchase and install electric meter per City standards; see specifications. Meter to be readable from exterior of cabinet.
  - Astronomic Time Switch for lighting control to be sized by Electrician to handle electrical loads as required. GFCI to be on a separate circuit.
  - Door shall be latching and lockable. Contractor to provide padlock which meets City standards. Door to have full-length continuous hinge.
  - Cabinet shall be a UL-Listed, Ventilated NEMA 3R enclosure of 14-ga. minimum steel (color galvanized black). See Specifications.

4 ELECTRIC CABINET ON CONCRETE PAD

Scale: 1" = 1'-0"

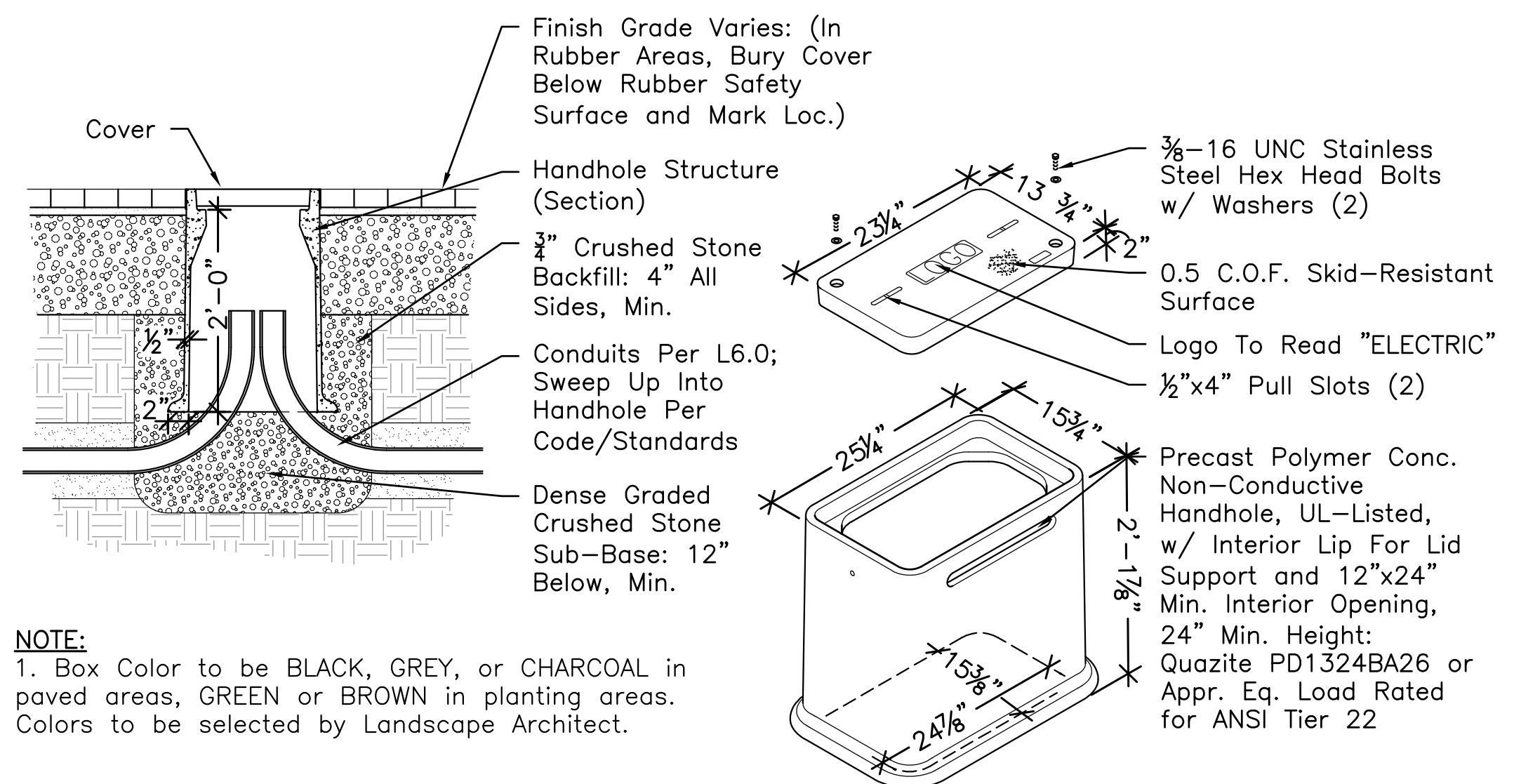


PLAN VIEW



LOCKING TAB

- NOTES:
- SHOP DRAWINGS REQUIRED.
  - Contractor to purchase Water Meter from City of Somerville and install Meter in Cabinet as indicated.
  - Contractor to provide Lock which meets City of Somerville requirements (Combination Padlock).
  - Irrigation spray heads need 10 PSI per head. Contractor shall procure and install Additional Pressure Regulators on each line as required to provide appropriate pressures for operation.
  - Irrigation Controller/Clock to be located in Water Cabinet.

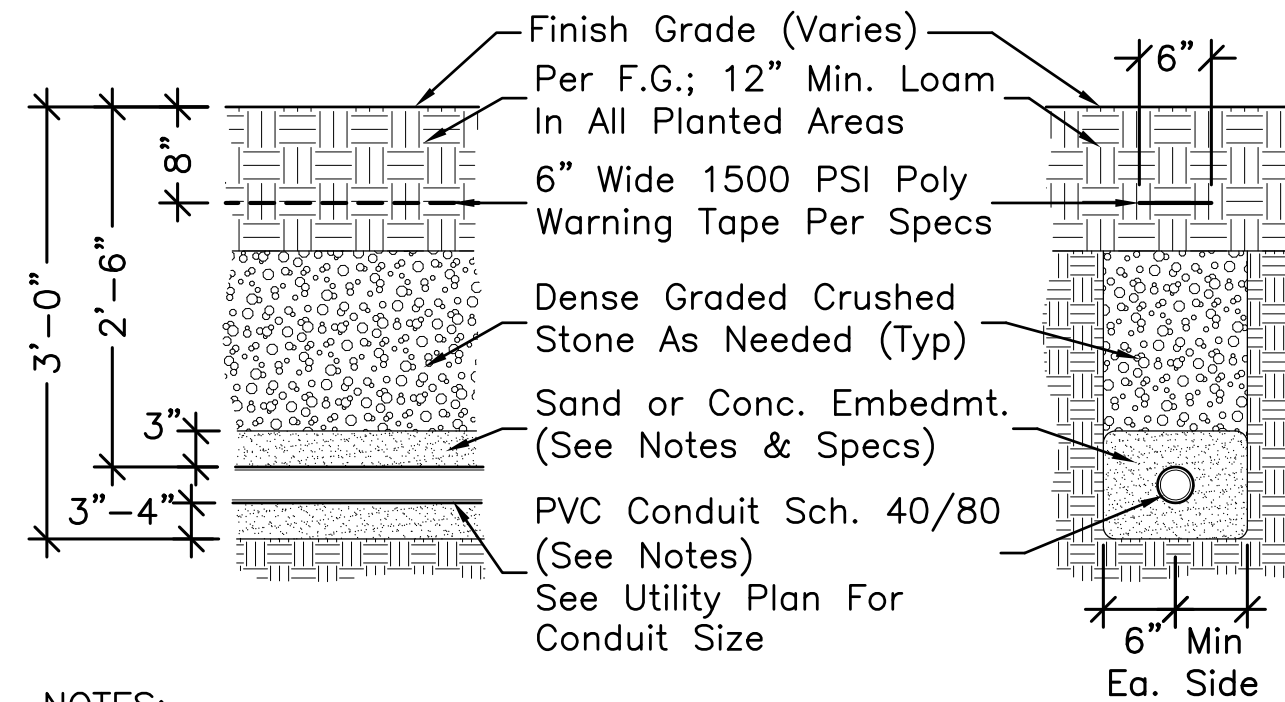


NOTE:

1. Box Color to be BLACK, GREY, or CHARCOAL in paved areas, GREEN or BROWN in planting areas. Colors to be selected by Landscape Architect.

5 ELECTRIC HANDHOLE

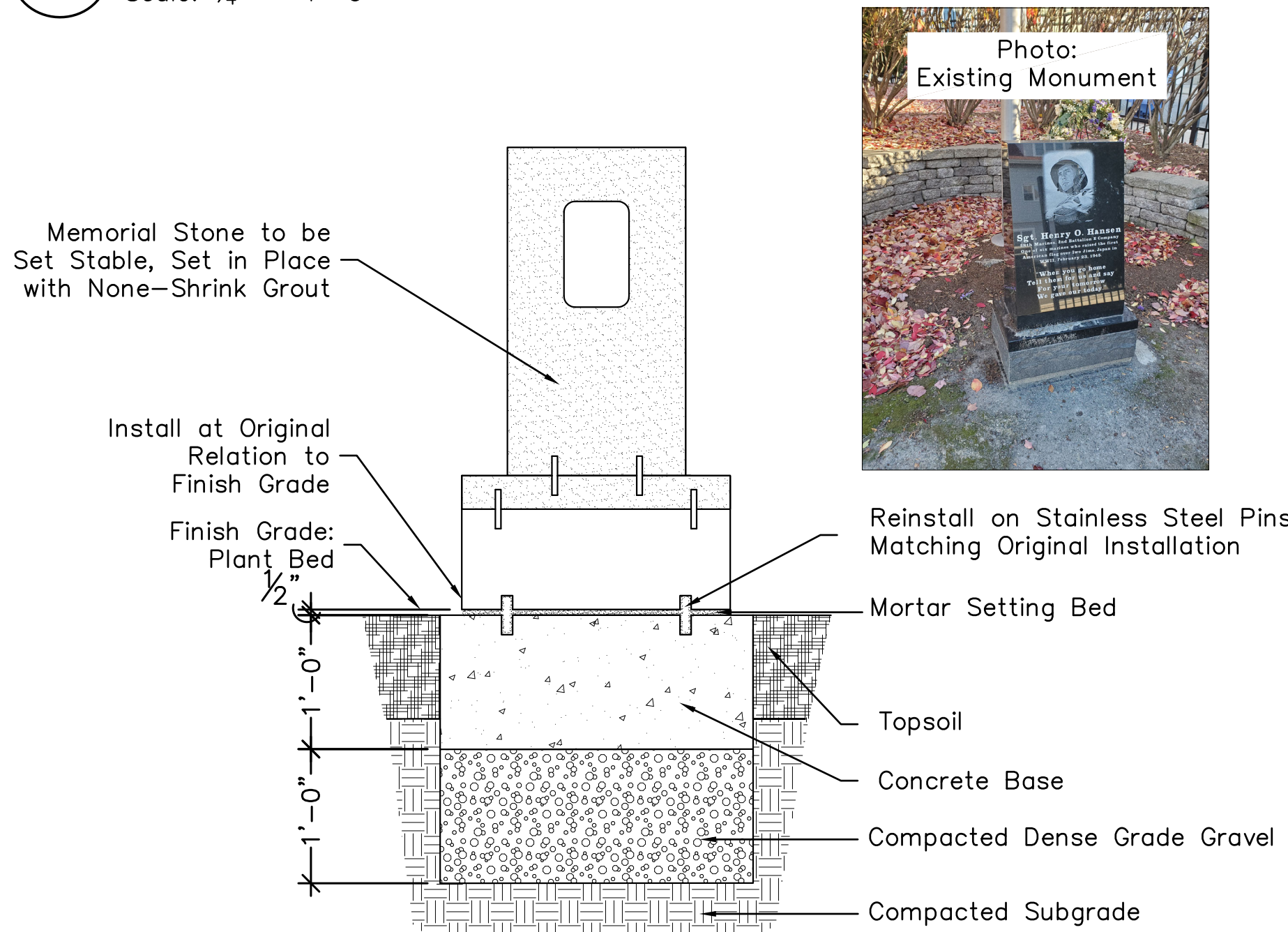
Scale: 3/4" = 1'-0"



- NOTES:
- All Conduit installation to meet all applicable State, Local, and Federal Codes, and all City of Somerville Standards.
  - Under planted areas and rubber surfaces, Sch40 Conduit and Sand embedment are acceptable. Under all paved areas, use Sch.80 Conduit and Concrete Embedment as noted in Specs.
  - Size Conduits as appropriate to required wiring; consider derating factors when applicable. Multiple conduits in a single duct bank shall be separated by 6" min. or per code.

2 ELECTRICAL CONDUIT INSTALLATION

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

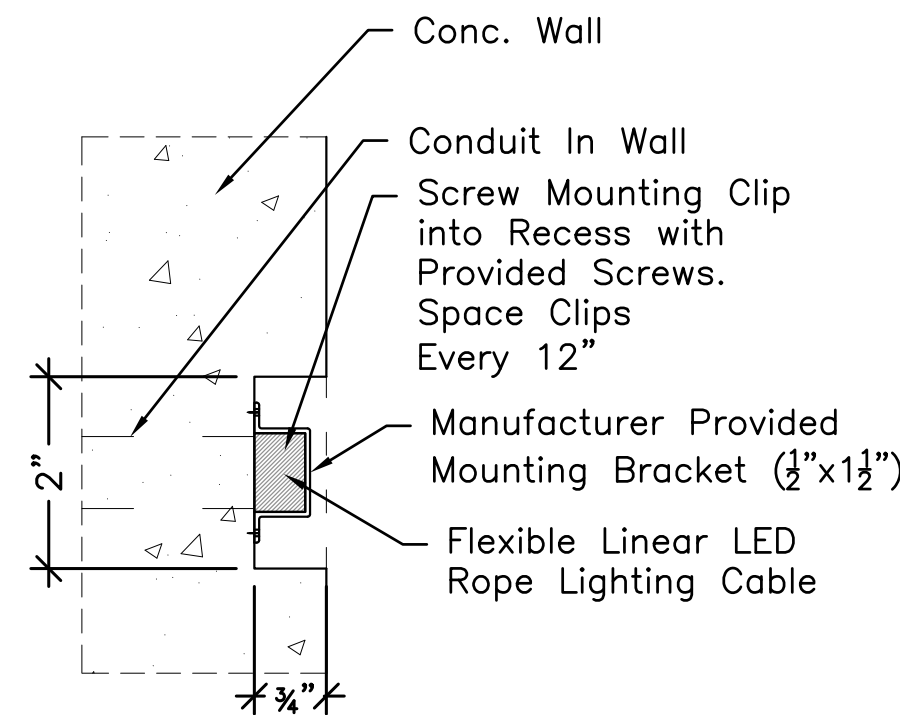


NOTES:

1. Final layout of monument stone to be approved by Landscape Architect in the field.

3 RESET EXISTING MONUMENT STONE

Scale: 1" = 1'-0"

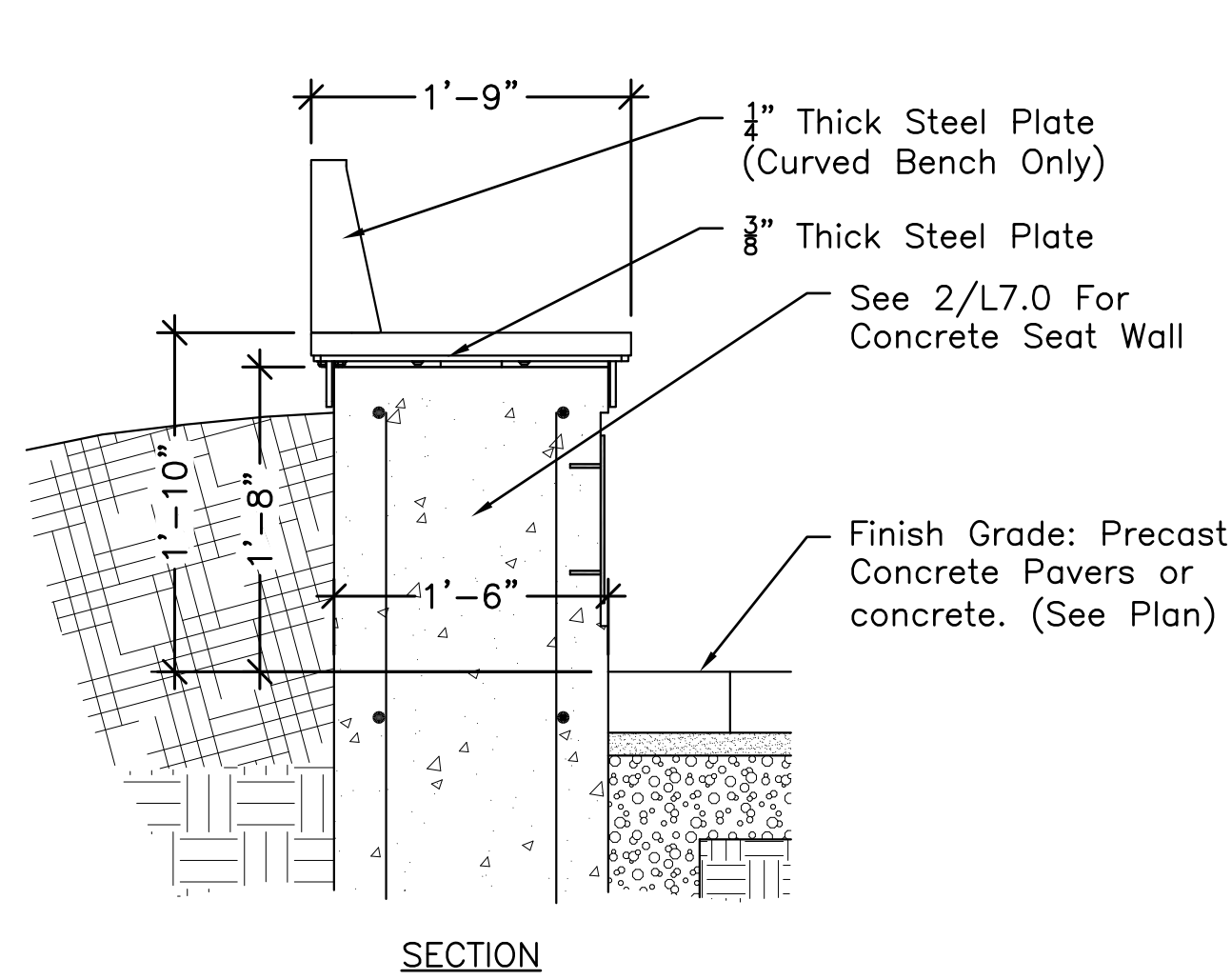


Notes:

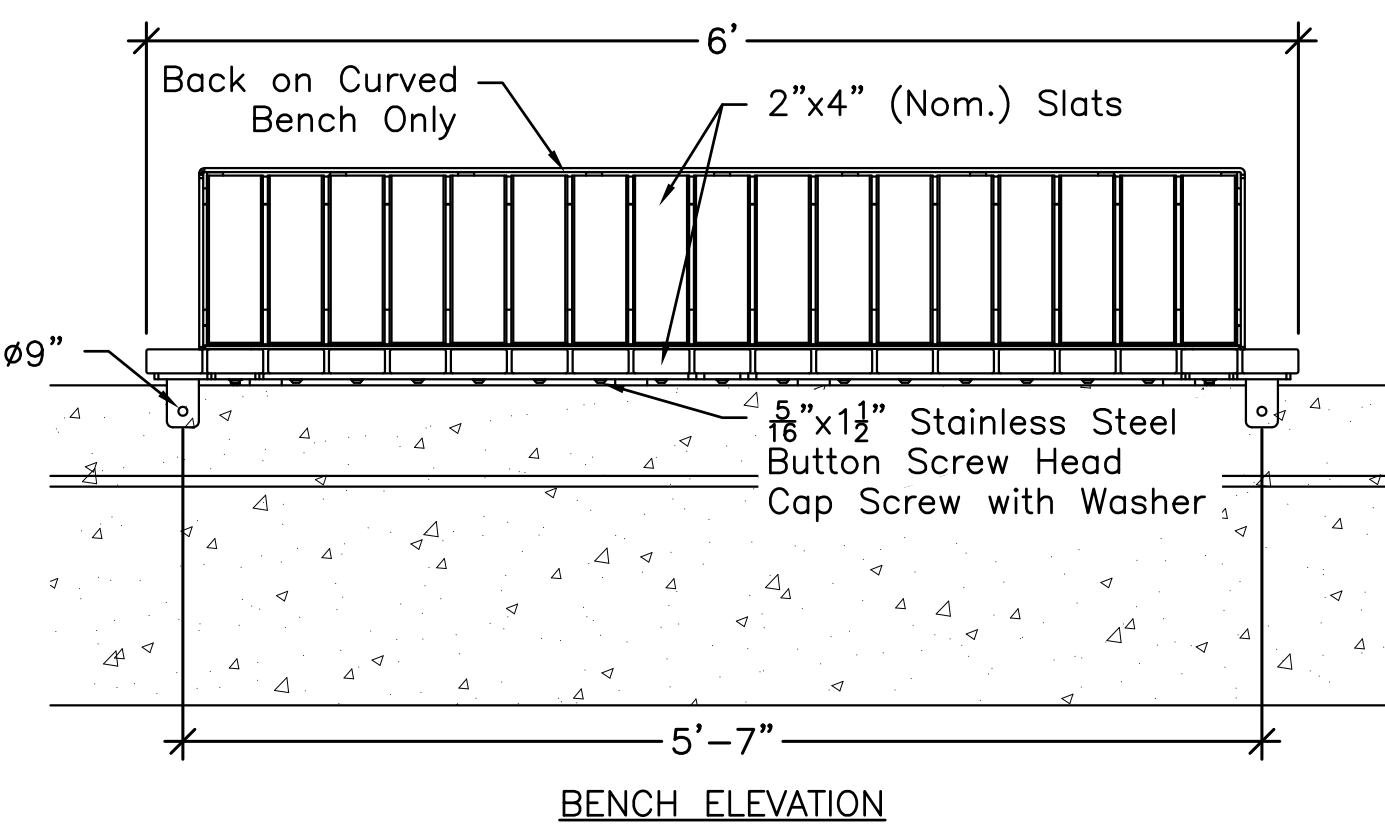
- Install according to all applicable codes and per manufacturer's instructions. Confirm all grounding.
- Secure rope light to recess with provided clips each 12".
- Light Fixtures to be: Duraflex Arch Top Flex: 30FT-DFA-TB-28-0-30-24-KT10UTL3-KT10UTS1 / DMLE1922242UD; 16FT-DFA-TB-28-0-30-24-KT10UTL3-KT10UTS1 / DMLE601242UD; 23FT-DFA-TB-28-0-30-24-KT10UTL3-KT10UTS1 / DMLE961242UD or Approved Equal.
- Remote drivers with NEMA3R enclosure mounted within adjacent handholes. See basis-of-design numbers above.

6 LED RIBBON LIGHT (ADD ALT. # 1)

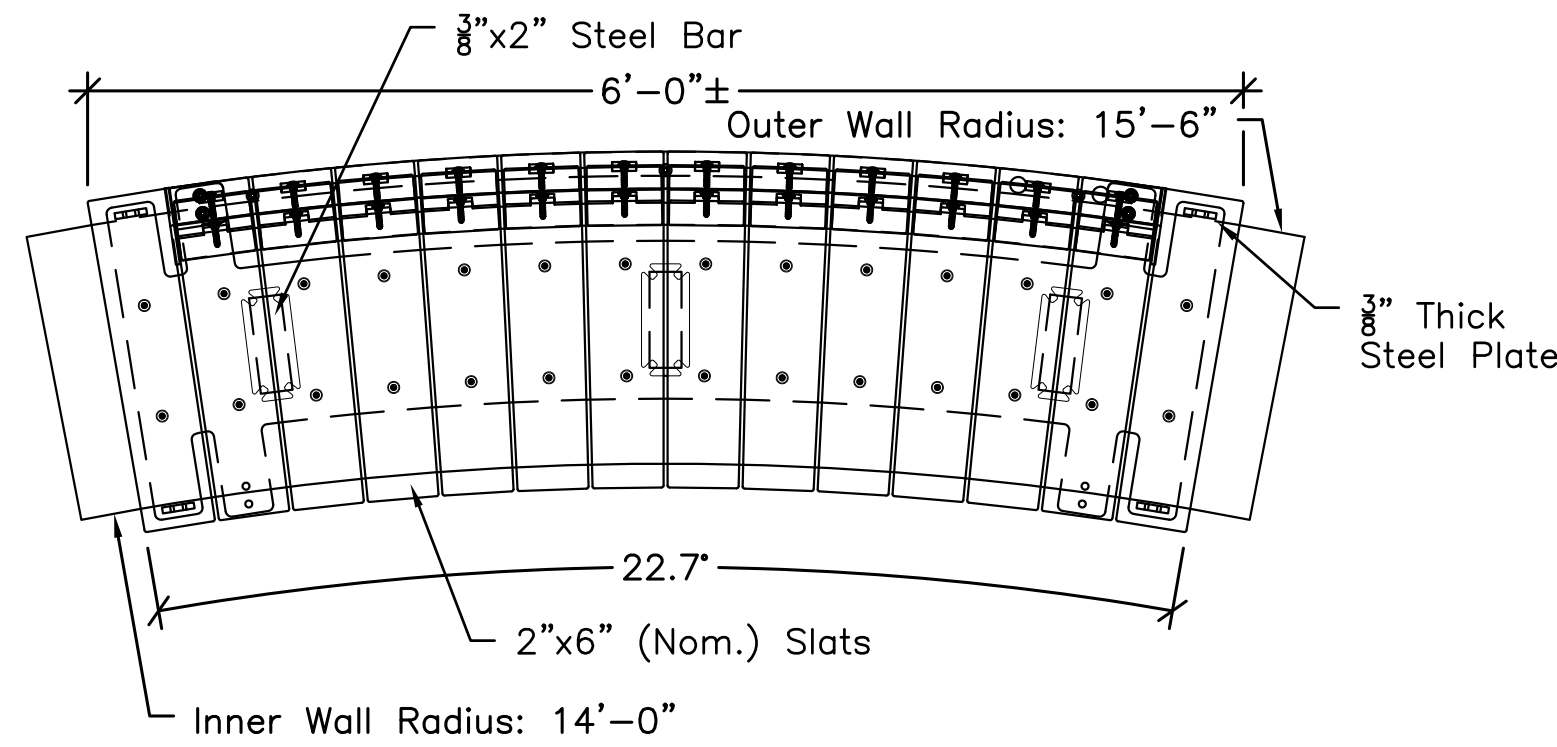
Scale: 6" = 1'-0"



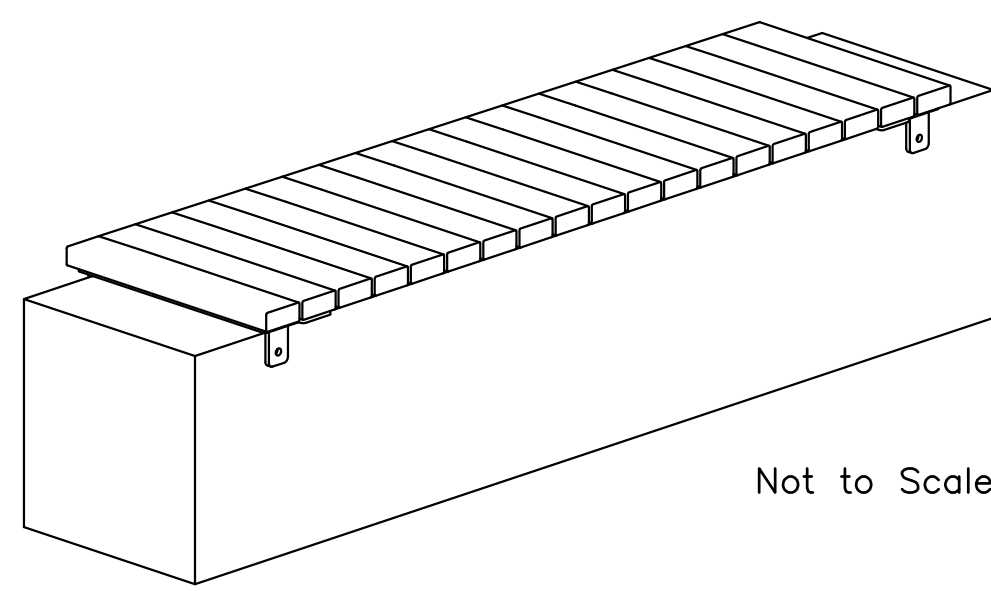
SECTION



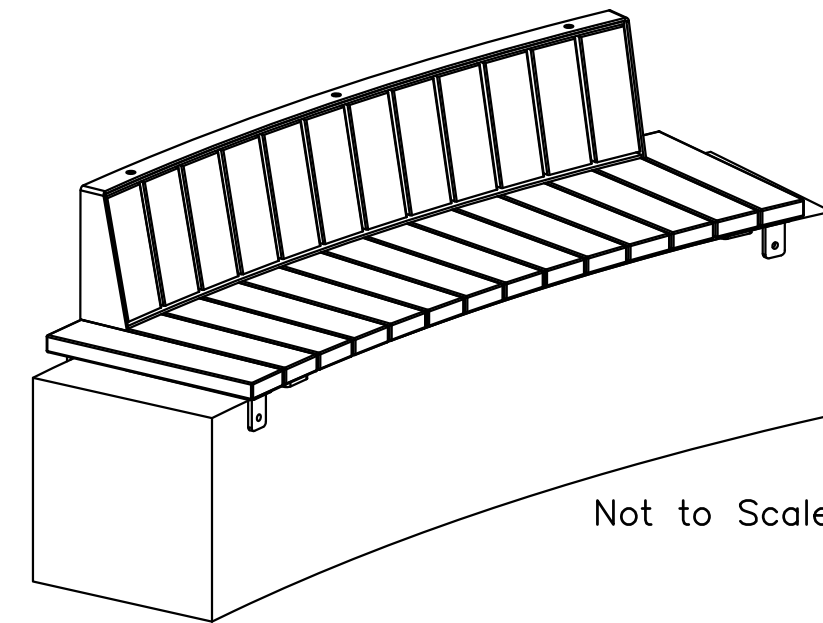
BENCH ELEVATION



CURVED BENCH PLAN

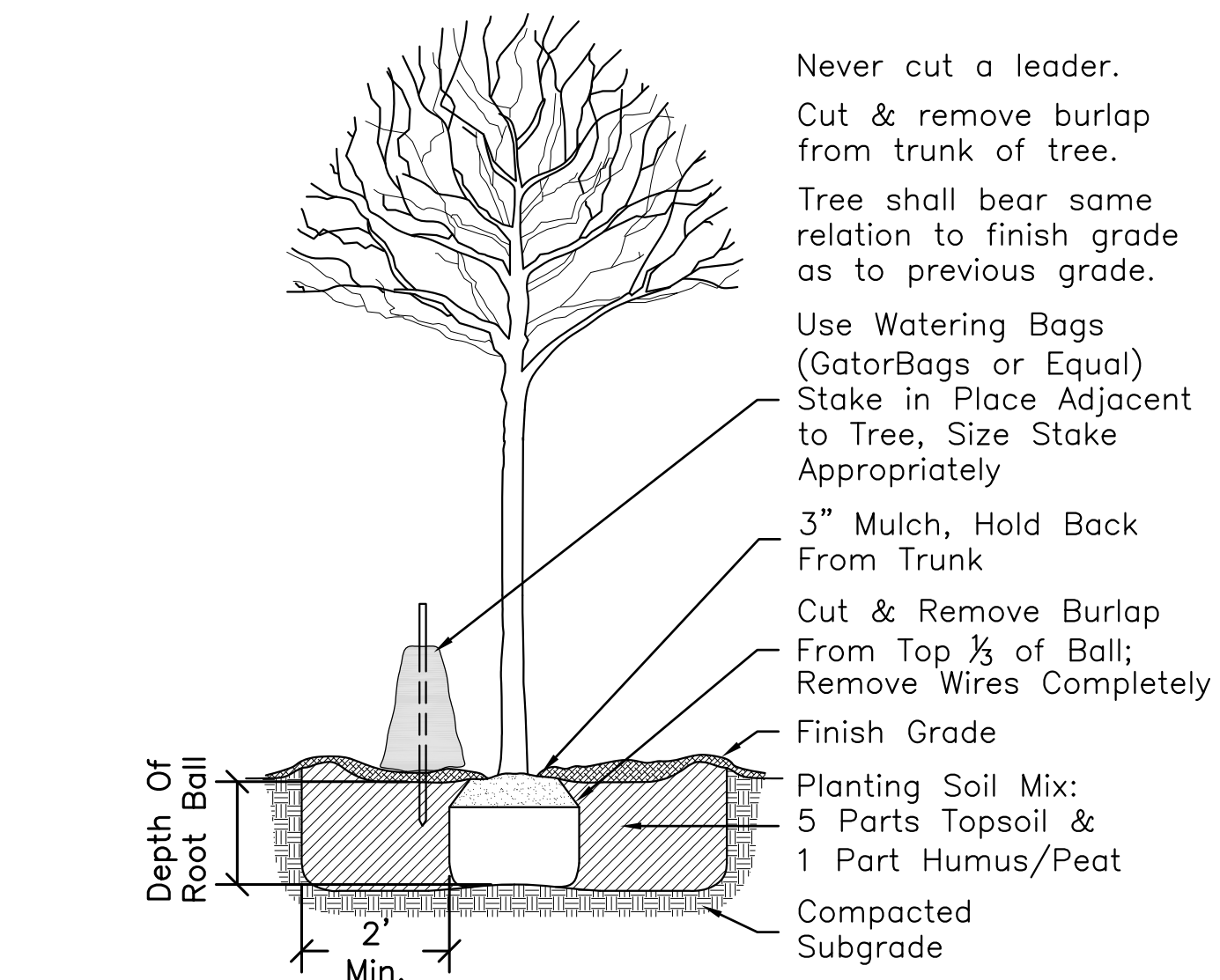


STRAIGHT BENCH (BACKLESS) ADD ALT. # 3



CURVED BENCH (BACKED)

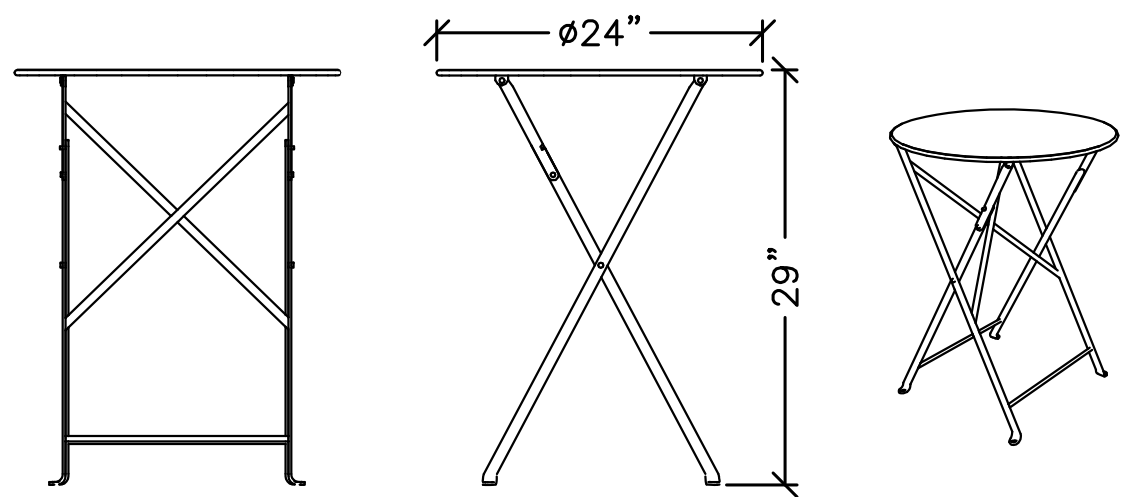
- Notes:**
1. SHOP DRAWINGS REQUIRED.
  2. Straight Benches to be DuMor Model #6B-405-6L, or Approved Equal. Curved Benches to be DuMor Model #64-224, or Approved Equal.
  3. Installation to be completed in accordance with Manufacturer's Specifications.
  4. Slats to be "Textured Wood Grain" Recycled Plastic (color blends) by DuMor or Approved Equal.
  5. All steel members coated with zinc rich epoxy then finished with polyester powder coating.
  6. Non-corrosive anchor hardware provided by contractor.
  7. Contractor to touch up all damage to finished with manufacturer's provided touch up kit.
  8. Colors to be selected from Manufacturer's standard options.



2 TREE PLANTING  
Scale: 3/8" = 1'-0"

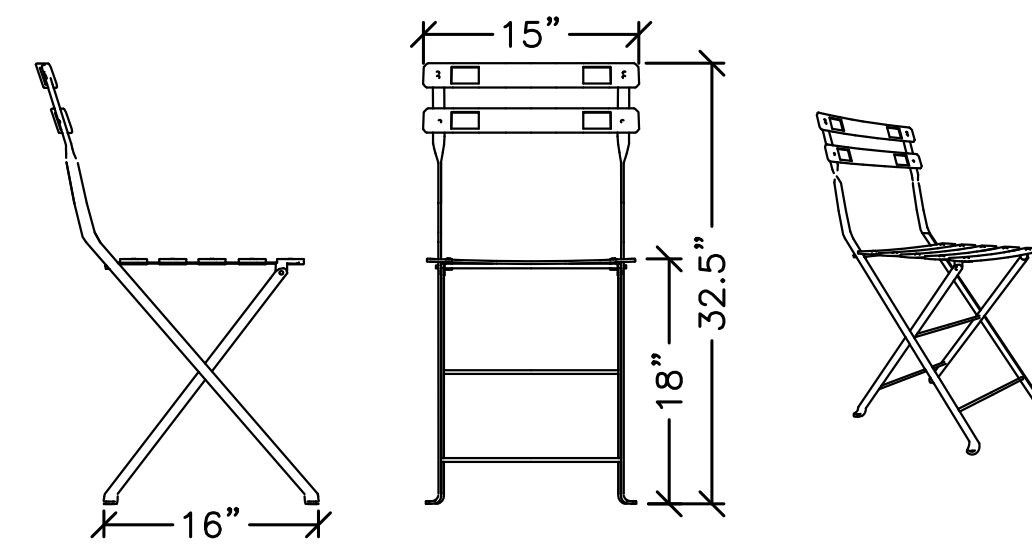
## 1 WALL-MOUNTED BENCH W/ SIMULATED WOOD-GRAIN RECYCLED PLASTIC SLATS (ADD ALT # 3)

Scale: 1" = 1'-0"



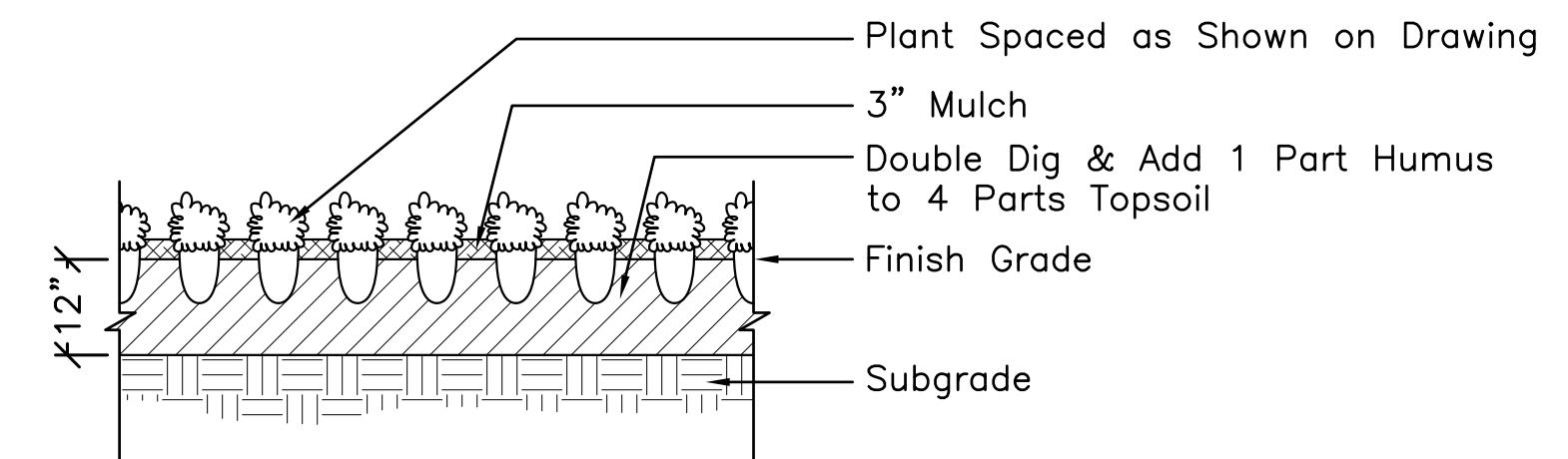
3 MOVEABLE TABLE  
Scale: 1/2" = 1'-0"

- Notes:**
1. SHOP DRAWINGS REQUIRED.
  2. Moveable Table to be Bistro Metal Folding Table (Model #024529) by Fermob, or Approved Equal.
  3. Installation to be completed in accordance with Manufacturer's Specifications.
  4. Contractor to touch up all damage to finished with manufacturer's provided touch up kit.
  5. Color to be Verbena.

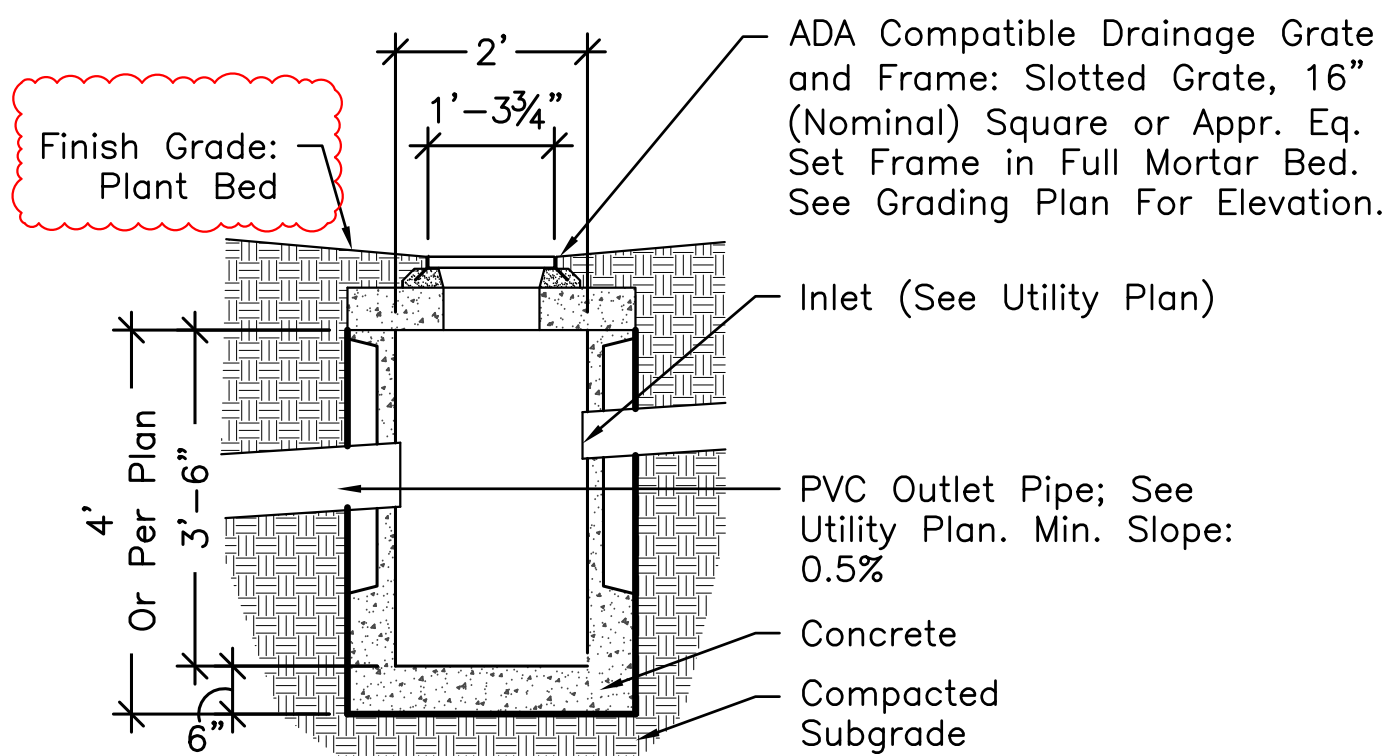


4 MOVEABLE CHAIR  
Scale: 1" = 1'-0"

- Notes:**
1. SHOP DRAWINGS REQUIRED.
  2. Moveable Chairs to be Bistro Metal Folding Chairs (Model #010129) by Fermob, or Approved Equal.
  3. Installation to be completed in accordance with Manufacturer's Specifications.
  4. Contractor to touch up all damage to finished with manufacturer's provided touch up kit.
  5. Color to be Verbena.

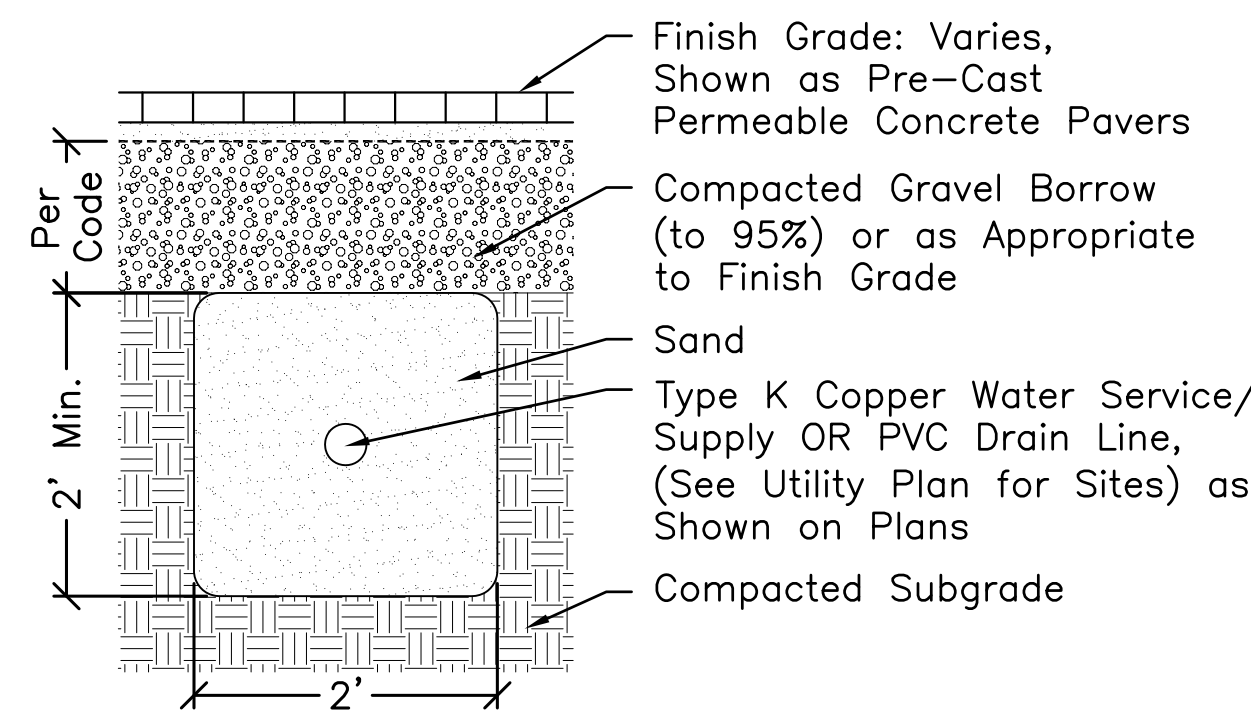


5 GROUNDCOVER & PERENNIALS  
Scale: 1/2" = 1'-0"



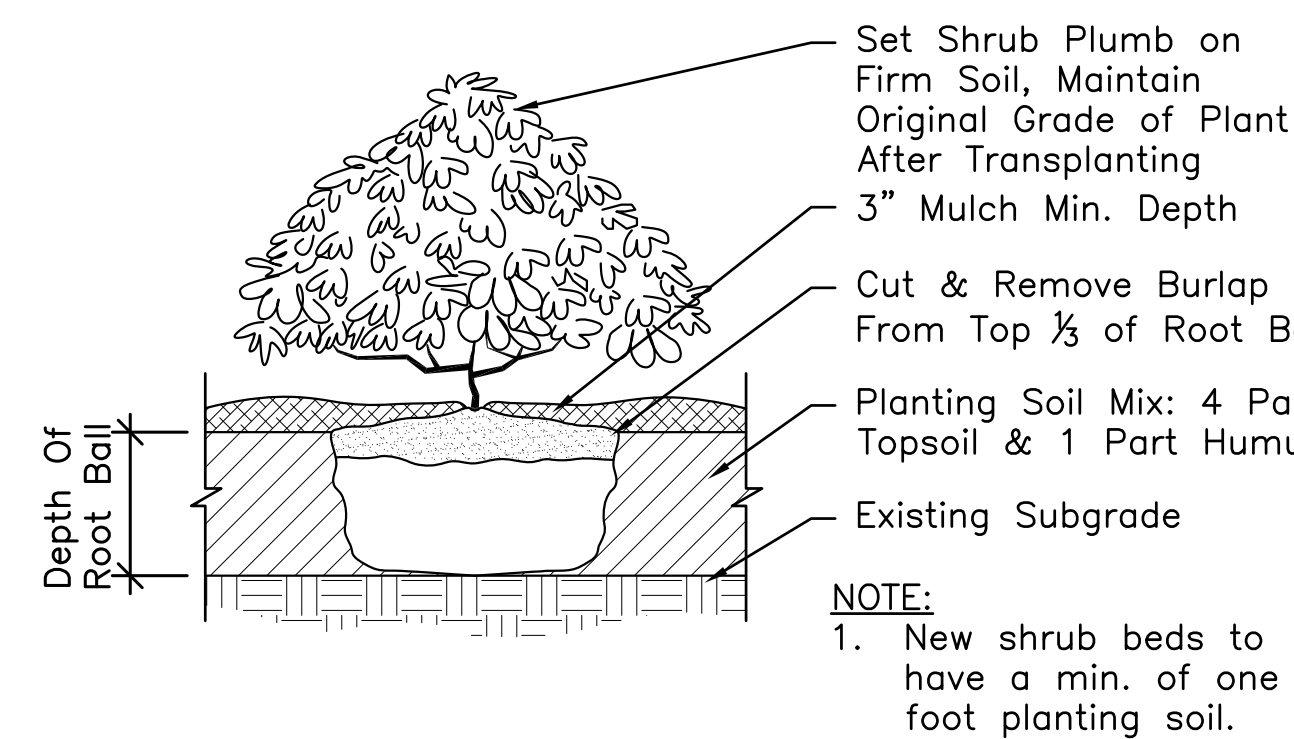
- Notes:**
1. SHOP DRAWINGS REQUIRED.
  2. Structure to be "Type 1 Base 24" Square Area Drain with Knockouts" with corresponding Top Slab with 12" Opening by Shea Concrete Products or Approved Equal.
  3. Drainage Inlet Grate to be an ADA-Compliant, 16" Square, Cast Iron grate. Grate to be powdercoated black.
  4. Frame to be an L-shaped Angle Iron Frame, set in full mortar bed.
  5. PVC outlets to slope per plans. Sloped pipe shall be 0.5% min. Confirm elevations and spot grades prior to construction.

6 PRECAST CONCRETE DRAINAGE INLET  
SCALE: 1" = 1'-0"

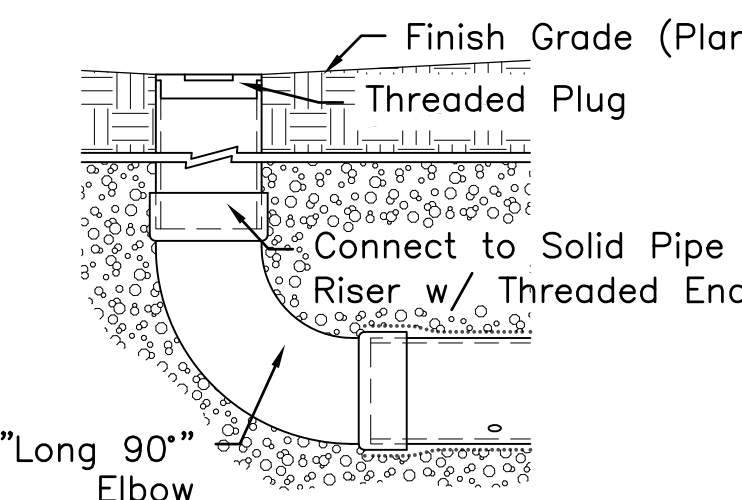


- NOTES:**
1. Water service supply to be 60" minimum below finish grade, or as required by Codes. Adjust depth of trench as required.
  2. Maintain 3' min. cover above storm drain lines, with 12" min. to be loam in planting areas.

7 WATER SUPPLY LINE/DRAIN LINE  
Scale: 3/4" = 1'-0"

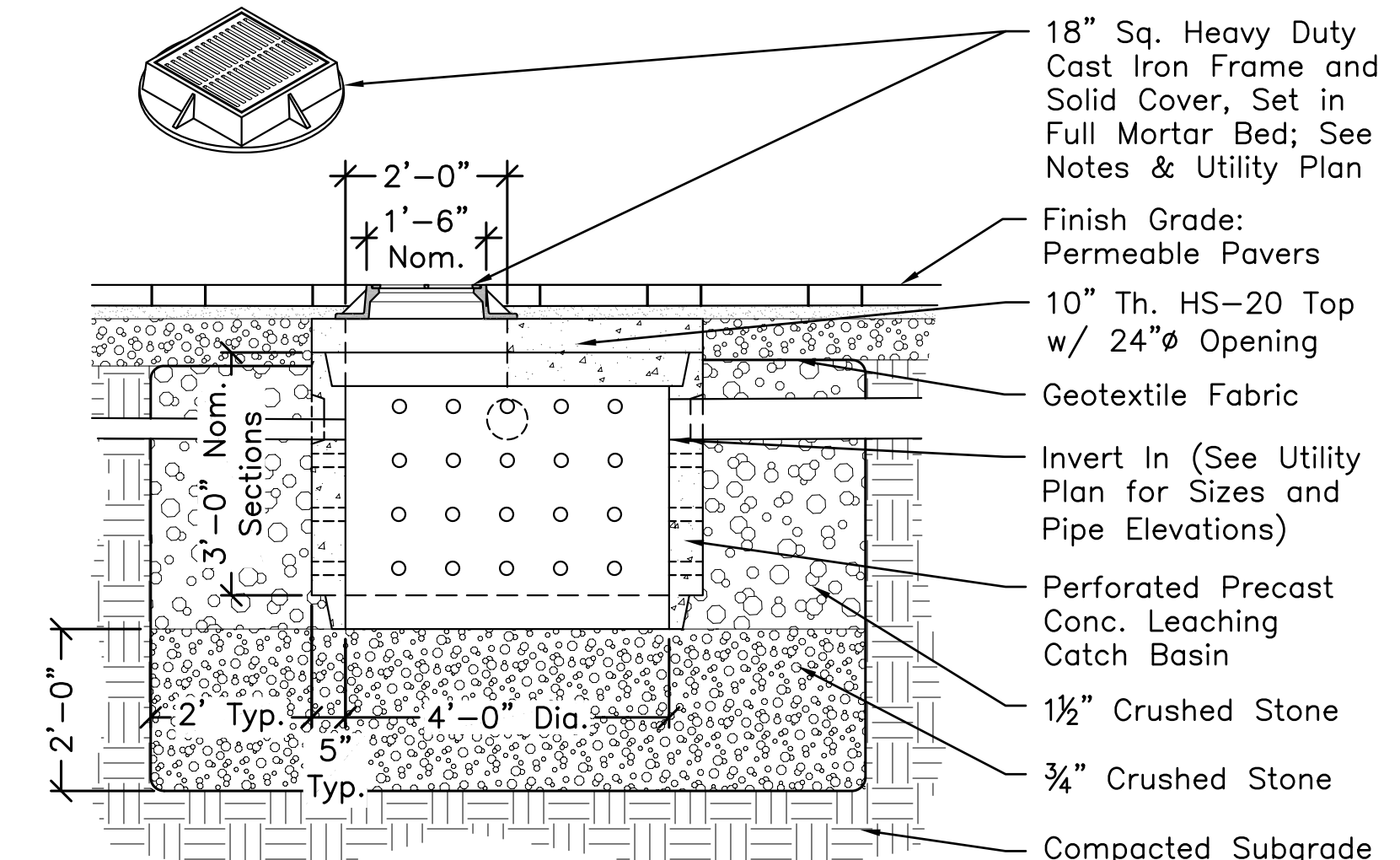


8 SHRUB PLANTING  
Scale: 1/2" = 1'-0"



9 DRAIN CLEANOUT  
Scale: 1 1/2" = 1'-0"

- NOTES:**
1. All pipe and fittings to be suitable for future cleaning with a "snake." Provide risers and caps where indicated on Utility Plan (L6.0).
  2. Caps to be a 4" Male NPT Flush Cleanout Plug (no vertical projection).



- NOTES:**
1. Leaching Catch Basin to be "4' Dia. Drywell" by Scituate Ray Precast of Marshfield, MA or Approved Equal. Structure shall meet or exceed ASTM C-478 and AASHTO M-199 Specs, and HS-20 Loading.
  2. Frame and Grate to be a square ADA-compliant cast gray iron grate and frame, powdercoated black, R-2569 by Neenah Foundry or Approved Equal.
  3. Seal all interior and exterior joints and all openings at inlet pipes with non-shrink hydraulic grout. Joints between sections to have butyl rubber sealant.
  4. Coat structure with two (2) coats of bituminous dampproofing.

10 LEACHING CATCH BASIN  
Scale: 1/2" = 1'-0"

SCOPE OF WORK

HENRY HANSEN MEMORIAL PARK IS A RECREATIONAL PARK AT THE CORNER OF MEDFORD STREET AND PARTRIDGE AVENUE IN SOMERVILLE, MASSACHUSETTS. THE PARK WAS ORIGINALLY CONSTRUCTED IN 2005 TO HONOR A LOCAL VETERAN. IN 2023, WISS, JANNEY, ELSTNER ASSOCIATES, INC. (WJE) WAS ENGAGED TO ASSIST CBA LANDSCAPE ARCHITECTS, LLC (CBA) IN DESIGNING A CAST-IN-PLACE CONCRETE CANTILEVERED RETAINING WALL AS A CENTRAL FEATURE OF CBA'S PARK REDESIGN. THIS DRAWINGS SET INCLUDES RETAINING WALL DESIGNS THAT GIVE CONSIDERATIONS FOR THE SITE'S GEOMETRIC CONSTRAINTS.

GENERAL NOTES

- CONSTRUCTION SHALL BE IN ACCORDANCE WITH IBC 2015, IEBC 2015, AND ANY APPLICABLE MIDDLESEX COUNTY AND MASSACHUSETTS STATE BUILDING CODES AND REGULATIONS.
- UNLESS SPECIFICALLY STATED OTHERWISE, THE MOST RECENT EDITION OF ALL CODES AND STANDARDS SHALL APPLY.
- THE CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE LATEST EDITION OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
- THE CONTRACTOR SHALL SUPPLY THE OWNER WITH SAFETY DATA SHEETS (SDS) FOR EACH CHEMICAL THAT WILL BE BROUGHT ONTO THE JOB SITE AND SHALL COMPLY WITH THE REQUIREMENTS OF THE OSHA COMMUNICATION STANDARD.
- THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS PRIOR TO STARTING THE WORK.
- THE WORK OF THIS PROJECT CONSISTS OF FURNISHING ALL ITEMS, MATERIALS, OPERATIONS OR METHODS LISTED, MENTIONED, INDICATED, OR SCHEDULED IN THESE DRAWINGS, INCLUDING ALL LABOR, MATERIALS, EQUIPMENT TRANSPORTATION, AND INCIDENTALS NECESSARY AND REQUIRED TO PERFORM THE WORK AND TO BRING THE PROJECT TO COMPLETION, NOTWITHSTANDING THAT EVERY ITEM OF LABOR OR MATERIALS OR ACCESSORIES REQUIRED TO MAKE THE INSTALLATION COMPLETE, MAY NOT BE SPECIFICALLY MENTIONED. CONTRACTOR MUST SUBMIT ALL MATERIALS FOR APPROVAL. ANY MATERIALS THAT DEVIATE FROM THE MATERIAL REQUIREMENTS PROVIDED SHALL INCLUDE A FORMAL SUBSTITUTION REQUEST.
- OWNER SHALL BE PROVIDED COMPLETE ACCESS WITHOUT TIME RESTRICTIONS TO ALL CONSTRUCTION AREAS PRIOR TO, DURING, AND AFTER COMPLETION OF CONSTRUCTION, AT NO ADDITIONAL COST TO OWNER.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION AND/OR CONSTRUCTION ACTIVITIES WITH THE OWNER.
- ANY NECESSARY OR REQUESTED CHANGES IN THE WORK SPECIFIED SHALL BE SUBMITTED TO THE OWNER FOR REVIEW WITH ADEQUATE TIME OF REVIEW BEFORE CHANGES ARE IMPLEMENTED.
- DIMENSIONS PROVIDED ARE APPROXIMATE BASED ON LIMITED FIELD MEASUREMENTS AND A LIMITED TOPOGRAPHIC SURVEY PROVIDED TO WJE BY CBA. THEY ARE PROVIDED FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SITE CONDITIONS AS NECESSARY PRIOR TO FINALIZING A BID, ORDERING MATERIAL, AND BEGINNING THE WORK. AS-BUILT CONDITIONS HAVE NOT BEEN FIELD VERIFIED BY WJE, MAY VARY SIGNIFICANTLY FROM THOSE SHOWN ON THESE DOCUMENTS, AND MAY IMPACT THE FINAL DESIGN. CONTRACTOR TO NOTIFY EOR OF ANY SITE CONFLICTS IN WORK AREA(S) PRIOR TO COMMENCING WORK.
- THE EXTENTS OF CONSTRUCTION IS SUBJECT TO FINAL APPROVAL AND QUANTITY VERIFICATION BY THE OWNER. QUANTITY OF ALL UNIT PRICE ITEMS SHALL BE VERIFIED PRIOR TO DEMOLITION. LACK OF VERIFICATION SHALL BE CAUSE FOR REJECTION OF QUANTITY FROM TOTAL TO BE COMPENSATED.
- UNANTICIPATED CONDITIONS ENCOUNTERED DURING THE COURSE OF THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER. NO ADDITIONAL WORK SHALL BE PERFORMED UNLESS APPROVED IN ADVANCE BY THE OWNER AND OWNER'S PROJECT MANAGER.
- THE CONTRACTOR SHALL LEAVE ELEMENTS THAT ARE TO REMAIN INTACT AND UNDISTURBED. THE CONTRACTOR SHALL REMOVE SIGNS, ELECTRICAL FIXTURES AND MISCELLANEOUS SURFACE MOUNTED ELEMENTS AS NECESSARY TO COMPLETE THE WORK. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL RESTORE AND REINSTALL SIGNS, ELECTRICAL FIXTURES AND MISCELLANEOUS SURFACE ELEMENTS TO THEIR ORIGINAL CONDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PORTIONS OF THE ADJACENT AND SURROUNDING SITE THAT IS DAMAGED AS A RESULT OF PERFORMANCE OF THE CONSTRUCTION. ANY SUCH DAMAGE SHALL BE REPORTED TO THE OWNER PRIOR TO REPAIRING DAMAGE.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL JOB SITE SAFETY DURING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE PROTECTIVE BARRIERS, FENCES, WALKWAY ENCLOSURES, ETC. TO ENSURE THE SAFETY OF PEDESTRIANS, VEHICULAR TRAFFIC, SITE FEATURES, ETC. AS APPROVED BY THE OWNER AND IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES. SUBMIT PEDESTRIAN SAFETY PLAN (COMPLETE WITH SIGNS, SIGN MATERIALS, SIGN MESSAGES, SIGN LOCATIONS AND FLOW RECONFIGURATION PATTERN) FOR APPROVAL PRIOR TO START OF CONSTRUCTION, WHICH MUST BE APPROVED PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL NOT UNREASONABLY ENCUMBER THE SITE WITH MATERIALS OR EQUIPMENT. THE MATERIALS AND EQUIPMENT STORED ON SITE SHALL BE CONFINED TO THE AREAS INDICATED BY THE OWNER. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE PROTECTION AND SAFEKEEPING OF PRODUCTS STORED ON PREMISES. MOVE ANY STORED MATERIAL PRODUCTS WHICH INTERFERE WITH OPERATIONS OF OWNER OR OTHER CONTRACTORS.
- THE CONTRACTOR SHALL TEMPORARILY SUPPORT OR REMOVE PRIOR TO THE WORK, AND REPLACE AFTER WORK IS COMPLETE, ANY PLUMBING LINES, ELECTRICAL CONDUIT, OR MECHANICAL EQUIPMENT THAT MAY INTERFERE WITH THE WORK. ALL SYSTEMS MUST REMAIN OPERATIONAL BY RELOCATING, TEMPORARILY RELOCATING, OR BY PROVIDING ALTERNATE SYSTEMS.
- CONTRACTOR MUST CONFIRM WITH THE OWNER BEFORE UTILIZING EXISTING UTILITIES. AS REQUIRED BY OWNER, TEMPORARY EXTENSIONS MAY BE MADE BY CONTRACTOR. ALL UTILITY HOOKUPS TO BE USED BY THE CONTRACTOR ARE SUBJECT TO APPROVAL BY THE OWNER AND SHALL BE PROVIDED, MAINTAINED, AND REMOVED AT THE COMPLETION OF THE PROJECT BY THE CONTRACTOR. MATERIALS MUST BE NEW AND MUST BE ADEQUATE IN CAPACITY FOR THE REQUIRED USAGE, MUST NOT CREATE UNSAFE CONDITIONS, AND SHALL NOT VIOLATE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS.
- THE CONTRACTOR SHALL ARRANGE FOR, OBTAIN, AND PAY FOR ALL OTHER TEMPORARY UTILITIES AND HOOKUPS NECESSARY TO COMPLETE THE WORK EXCEPT AS STATED OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY MEASURES AS REQUIRED TO CONTROL DUST AND FUMES IN WORK AREA.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND PROVIDE TEMPORARY PROTECTION TO PREVENT FIRE DURING THE CONSTRUCTION AS REQUIRED BY FEDERAL AND LOCAL LAWS AND ORDINANCES. PROVIDE ADEQUATE VENTILATION DURING THE USE OF VOLATILE OR NOXIOUS MATERIALS.
- SMOKING SHALL BE PROHIBITED DURING OPERATIONS WHERE THERE ARE COMBUSTIBLE MATERIALS PRESENT. "NO SMOKING" SIGNS SHALL BE CLEARLY POSTED IN THESE AREAS.
- CLEANUP AND DEBRIS REMOVAL SHALL BE UNDERTAKEN DAILY AND SHALL BE SATISFACTORY TO THE OWNER.
- CONTRACTOR SHALL COORDINATE DIRECTLY WITH OWNER FOR ACCESS TO CONSTRUCTION. CONTRACTOR TO NOTIFY OWNER A MINIMUM OF SEVEN DAYS IN ADVANCE IF VEHICLES, EQUIPMENT, OR OTHER ITEMS NEED TO BE RELOCATED TO EXECUTE WORK.
- CONTRACTOR TO PROVIDE ALL NECESSARY EROSION CONTROL AND PREVENTION AS REQUIRED BY ALL LOCAL AND FEDERAL LAWS AND REGULATIONS.

MATERIAL REQUIREMENTS

CAST-IN-PLACE CONCRETE

- REFERENCE SPECIFICATIONS SECTION 03 30 00 FOR COMPLETE REQUIREMENTS, INCLUDING REQUIREMENTS FOR SINGLE-USE FORMLINERS FOR ARCHITECTURAL CAST-IN-PLACE CONCRETE.
- ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2014 VERSION OF THE ACI BUILDING CODE (ACI 318-14), THE ACI DETAILING MANUAL (ACI 315), AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301).
- ALL CONCRETE SHALL BE READY-MIX AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4000 PSI FOR RETAINING WALLS. THE WATER TO CEMENT RATIO (W/C) SHALL NOT EXCEED 0.40 WITH A MAXIMUM AGGREGATE SIZE OF 3/4 INCHES IN ACCORDANCE WITH ASTM C33. ALL CONCRETE FOR SLABS SHALL HAVE A MINIMUM OF 520 LBS. OF CEMENT PER CUBIC YARD.
- SLUMP TESTS SHALL BE MADE DURING PLACEMENT OF CONCRETE OF READY MIXED CONCRETE AND SHALL MEET THE FOLLOWING:
  - 3" MAXIMUM PRIOR TO ADDITION OF APPROVED ADMIXTURES
  - 8" MAXIMUM AFTER THE ADDITION OF ADMIXTURES. WATER SHALL NOT BE ADDED TO THE CONCRETE AT THE JOBSITE.
- CONCRETE EXPOSED TO WEATHER SHALL HAVE 6% AIR ENTRAINMENT. SUBMIT MIX DESIGNS FOR REVIEW.
- ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 GRADE 60.
- REINFORCING STEEL SHALL HAVE A MINIMUM CLEAR COVER AS FOLLOWS, UNLESS NOTED OTHERWISE ON DRAWINGS:

CONCRETE POURED AGAINST EARTH:	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#5 OR SMALLER	1-1/2"
#6 OR LARGER	2"

CLEAR COVER SHALL BE CLEARLY SHOWN ON ALL REINFORCING BAR SHOP DRAWINGS.

- REINFORCING STEEL SHALL BE PLACED WITH STEEL CLEAR COVER AS INDICATED ON DRAWINGS. PROVIDE SUPPORT BEFORE THE CONCRETE IS PLACED AND MAINTAIN POSITION DURING PLACEMENT. PROVIDE PLASTIC TIPPED BOLSTERS AND CHAIRS AT EXPOSED SLABS AND BEAMS.
- REINFORCEMENT AND LAP SPLICES SHALL BE INSTALLED IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE" FROM THE CONCRETE REINFORCING STEEL INSTITUTE DEVELOPMENT LENGTHS, NOTED ON DRAWINGS, AND SPLICE/LAP LENGTHS OF ALL REINFORCING STEEL TO BE PER DETAILS.
- NO WELDING OF REINFORCING SHALL BE PERMITTED, UNLESS OTHERWISE INDICATED OR SUBMITTED AND APPROVED BY THE ENGINEER.
- SUBMIT ALL REINFORCING SHOP DRAWINGS FOR REVIEW PRIOR TO ANY FABRICATION.
- PLACING OF CONCRETE SHALL NOT COMMENCE UNTIL THE PLACEMENT OF REINFORCING HAS BEEN APPROVED BY THE ENGINEER AND THE INSPECTION AGENCY.
- ALL INSERTS AND SLEEVES SHALL BE CAST-IN-PLACE. VERIFY THE DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, ETC. AS REQUIRED BY ALL TRADES BEFORE THE CONCRETE IS POURED. OPENINGS NOT SHOWN ON THE DRAWINGS SHALL BE INSTALLED ONLY AFTER APPROVAL BY THE ENGINEER IS OBTAINED. DRAWINGS SHALL BE SUBMITTED FOR REVIEW SHOWING LOCATIONS AND DIMENSIONS OF ALL OPENINGS, SLEEVES, ETC. IN CAST-IN-PLACE RETAINING WALLS. THESE DRAWINGS SHALL BE COORDINATED BY THE CONTRACTOR. OPENINGS AND SLEEVES THROUGH CAST-IN-PLACE CONCRETE FRAMING IS PROHIBITED EXCEPT WHERE THOSE SLEEVES AND OPENINGS ARE SHOWN ON THE DRAWINGS OR WHERE THEY ARE SHOWN ON THE APPROVED SLEEVE AND OPENING DRAWINGS THAT HAVE BEEN SUBMITTED TO THE ENGINEER FOR REVIEW. SAW-CUTTING, CORING, OR DRILLING OF SLEEVES OR OPENING THROUGH PREVIOUSLY CAST CONCRETE IS NOT PERMITTED EXCEPT WHERE SPECIFICALLY REVIEWED AND APPROVED BY THE ENGINEER.
- LOCATION OF CONSTRUCTION JOINTS IN THE SLAB SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER. CONSTRUCTION JOINTS IN RETAINING WALL SHALL BE KEY JOINTED WITH REINFORCING CONTINUOUS ACROSS JOINT.

DESIGN CRITERIA

	LONG HEEL LENGTH	MID HEEL LENGTH	SHORT HEEL LENGTH
ACTIVE SOIL LOAD	= 450 PSF	365 PSF	300 PSF
PASSIVE SOIL LOAD	= 900 PSF	900 PSF	900 PSF
FRICTION COEFFICIENT	= 0.45	0.45	0.45

DRAWING SHEET INDEX

NO.	SHEET TITLE
S1	PROJECT INFORMATION
S2	SITE PLAN
S3	RETAINING WALL SECTIONS

COMMON SYMBOLS LEGEND

	DRAWING LABEL 1/4" = 1'-0"	PLAN / DETAIL NAME LABEL
	ELEVATION CALLOUT	
	SECTION CALLOUT	
	DETAIL / VIEW CALLOUT	
	KEYED NOTE / OBSERVATION	
	ELEVATION MARKER	
	NORTH ARROW	

Wiss, Janney, Elstner Associates, Inc.  
50 Congress Street, Suite 430  
Boston, Massachusetts 02109  
617.946.3400 tel | 617.946.0740 fax  
www.wje.com

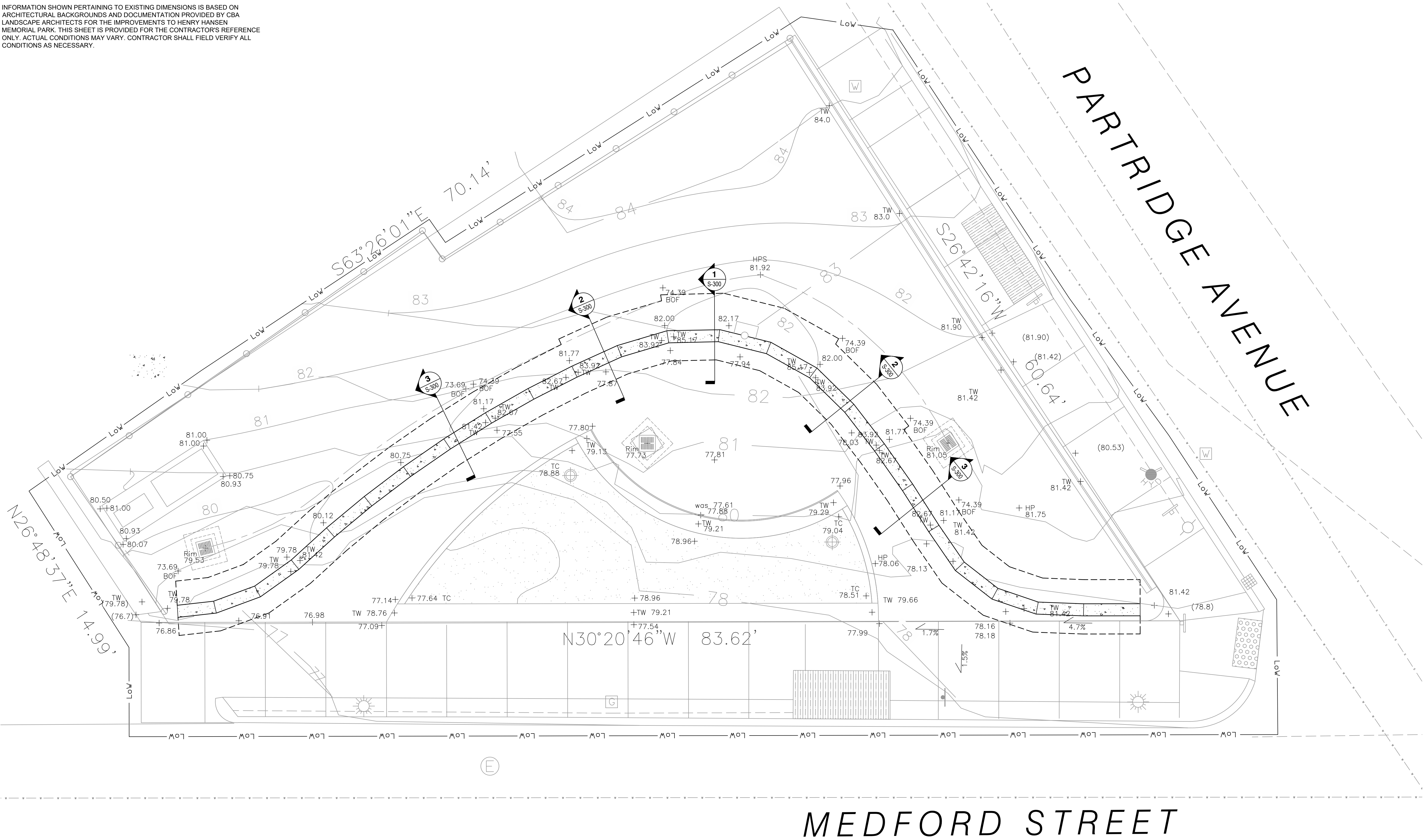
CBA | Landscape Architects LLC  
24 THORNDIKE STREET | CAMBRIDGE MA 02141  
phone 617.945.9760 | www.cbaland.com | cba@cbaland.com  
landscape architecture  
urban design  
master planning

HENRY HANSEN PARK  
Somerville, Massachusetts  
PROJECT INFORMATION

DATE: 2024-02-01  
SCALE: AS NOTED  
FILE:  
DWN BY: AHE  
CKD BY: KDK  
PROJ. # : 1802

S1

INFORMATION SHOWN PERTAINING TO EXISTING DIMENSIONS IS BASED ON ARCHITECTURAL BACKGROUNDS AND DOCUMENTATION PROVIDED BY CBA LANDSCAPE ARCHITECTS FOR THE IMPROVEMENTS TO HENRY HANSEN MEMORIAL PARK. THIS SHEET IS PROVIDED FOR THE CONTRACTOR'S REFERENCE ONLY. ACTUAL CONDITIONS MAY VARY. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AS NECESSARY.



1 SITE PLAN  
1/4" = 1'-0"

- SITE PLAN NOTES**
- SEE LANDSCAPE ARCH. FOR MORE INFORMATION ON GRADING AND DRAINAGE.
  - GRADE LINE BETWEEN ELEVATION MARKERS MAY VARY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SITE CONDITIONS. NOTIFY ENGINEER OF RECORD IF CONFLICTS ARISE.
  - CONTRACTOR TO LOCATE ALL UTILITIES IN THE WORK AREA PRIOR TO COMMENCING WORK. NOTIFY ENGINEER RECORD IF CONFLICTS ARISE.

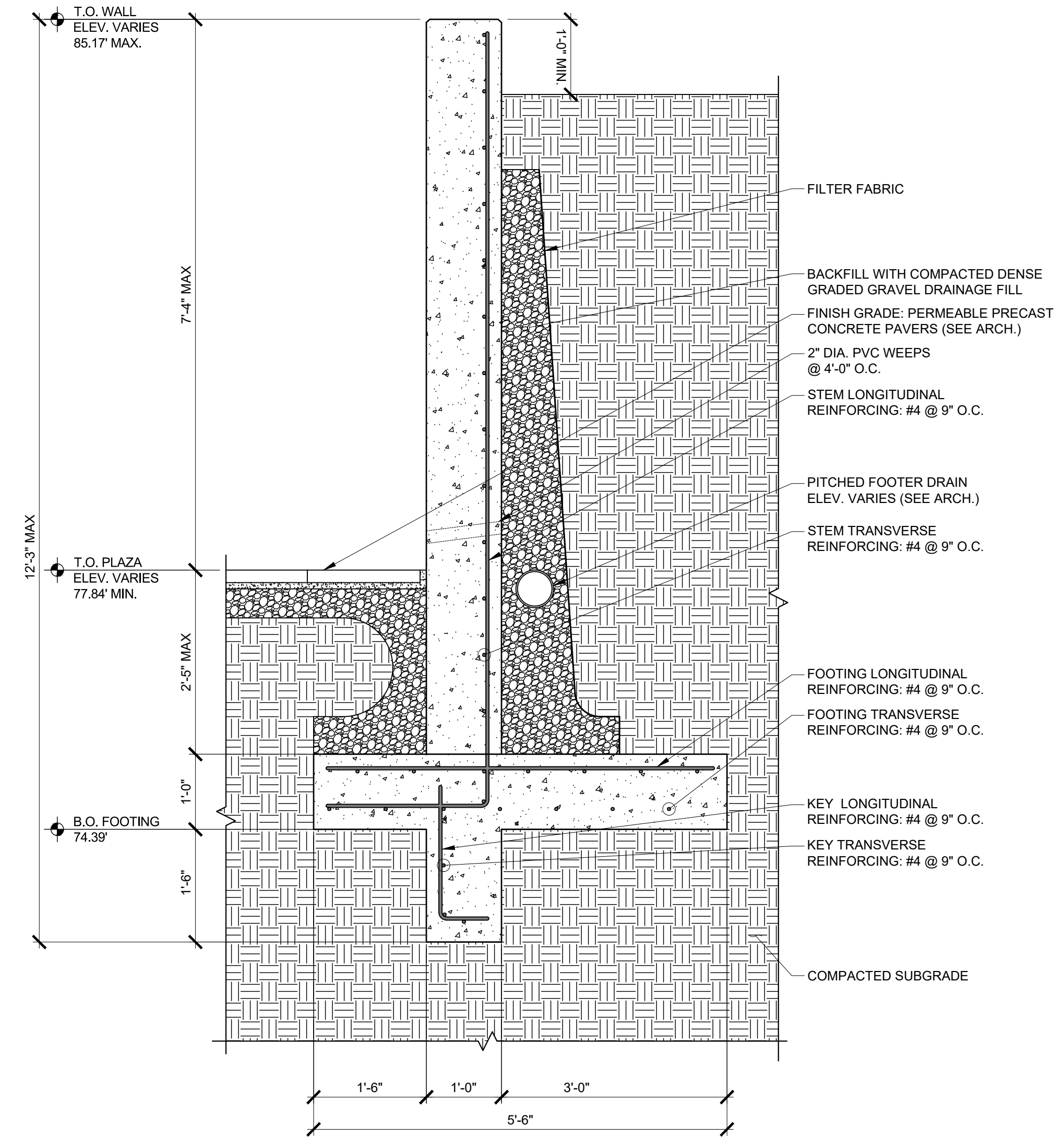
Wiss, Janney, Elstner Associates, Inc.  
50 Congress Street, Suite 430  
Boston, Massachusetts 02109  
617.946.3400 tel | 617.946.0740 fax  
www.wje.com

**HENRY HANSEN PARK**  
Somerville, Massachusetts  
PROJECT INFORMATION

DATE:	2024-02-01
SCALE:	AS NOTED
FILE:	
DWN BY:	AHE
CKD BY:	KDK
PROJ. # :	1802

CBA | Landscape Architects LLC  
24 THORNDIKE STREET I CAMBRIDGE MA 02141  
phone 617.945.9760 I www.cballand.com I cba@cballand.com  
landscape architecture  
urban design  
master planning

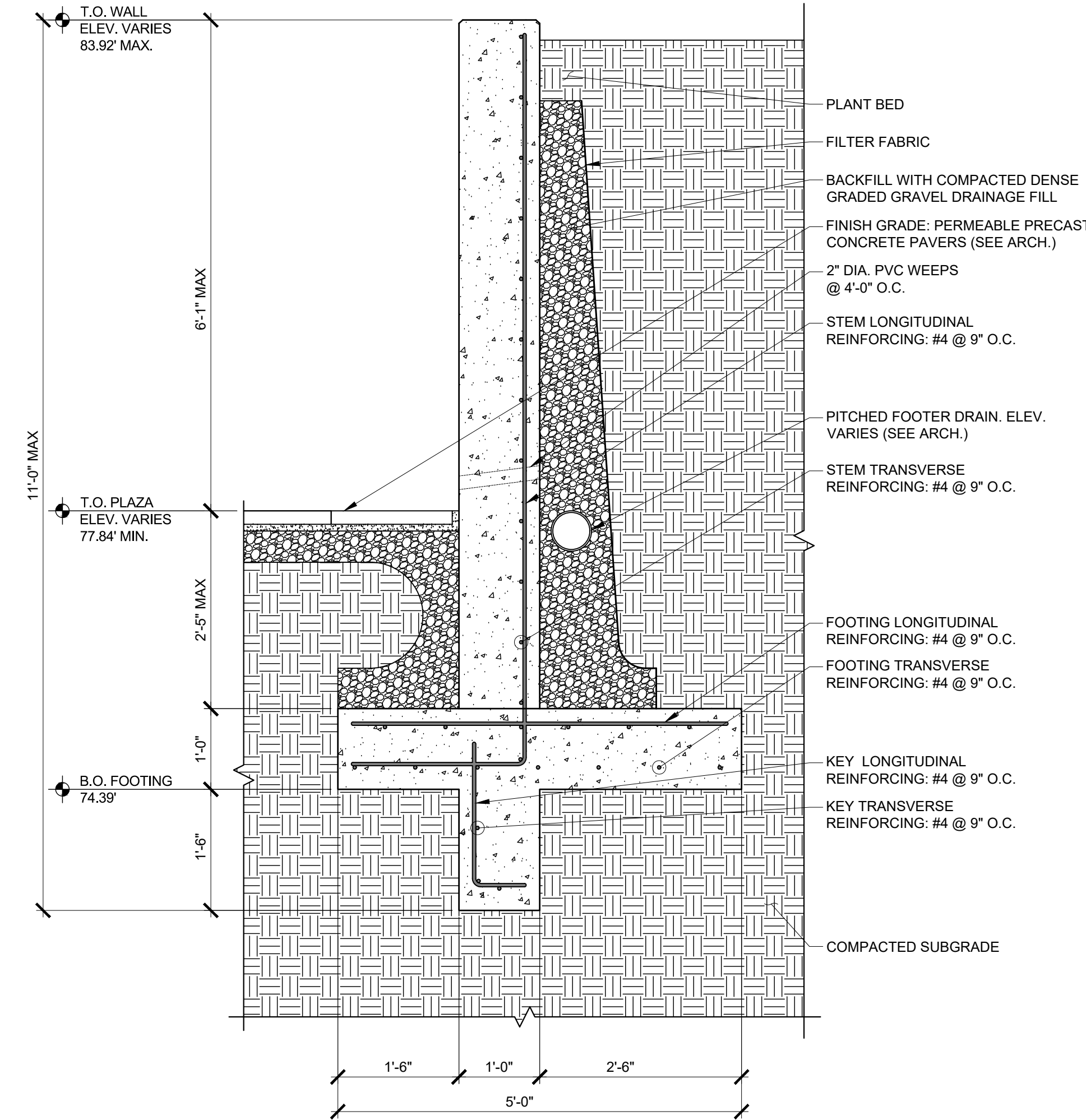
S2



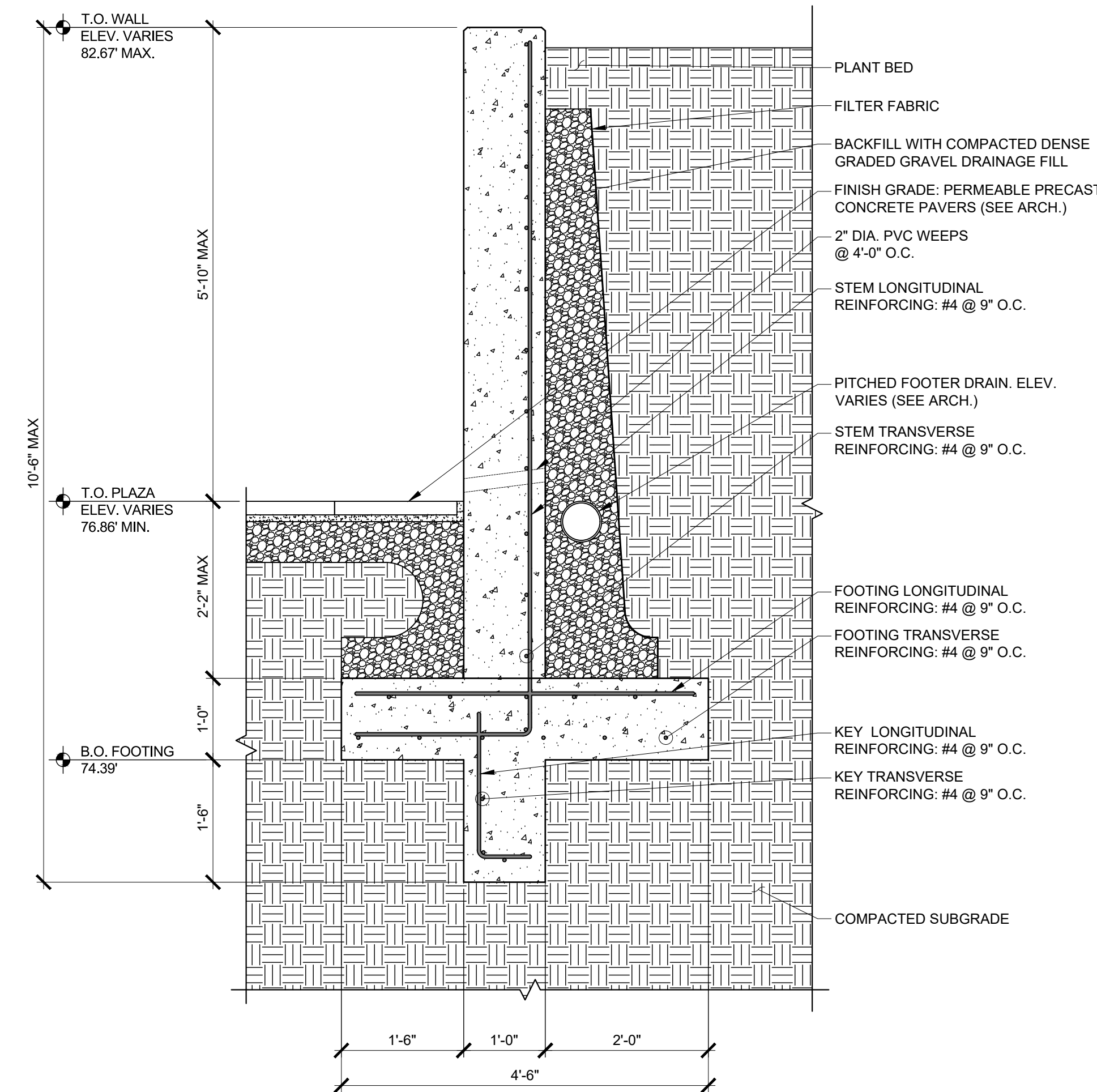
1 CANTILEVERED RETAINING WALL SECTION (SEGMENT 1)

NOTES (ALL WALL SEGMENTS)

- REFERENCE ARCH. GRADING PLAN FOR WALL ELEVATIONS.
- WALL FINISH TO BE CAST USING CUSTOM GRAPHIC FORM LINERS. SEE LANDSCAPE ARCH DETAIL 1/L7.1 FOR PATTERN.



2 CANTILEVERED RETAINING WALL SECTION (SEGMENT 2)



3 CANTILEVERED RETAINING WALL SECTION (SEGMENT 3)

DATE:	2024-02-01
SCALE:	AS NOTED
FILE:	
DWN BY:	AHE
CKD BY:	KDK
PROJ. #:	1802