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 <u>Revised sheets L1.0, L2.0, L3.0, L4.0, L5.0, L7.0, L7.2, and L7.4</u>. 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 <u>NOT Changed</u>.

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?

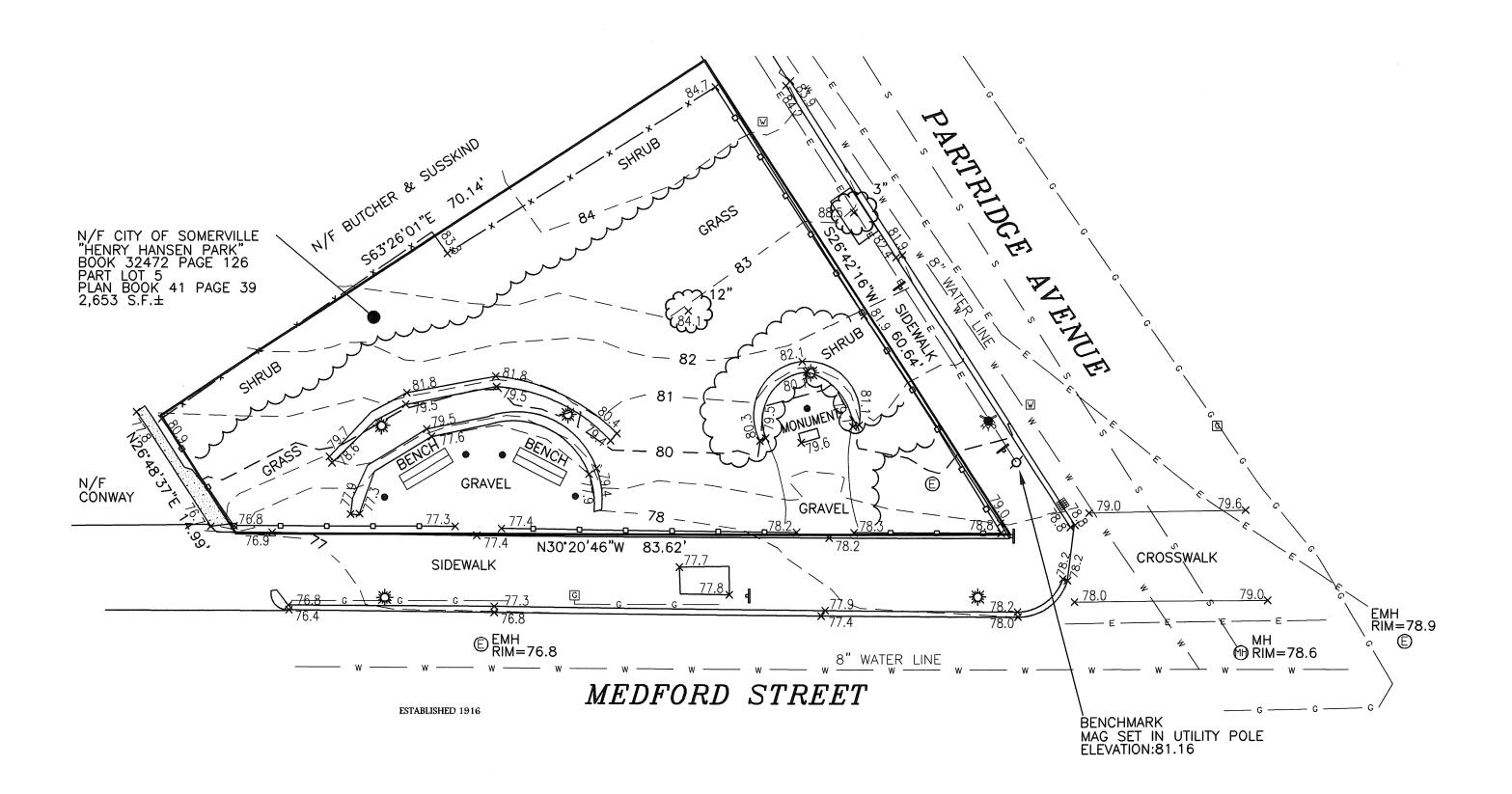
No; as noted on L6.0 under irrigation notes, the Contractor shall provide a design/build system that meets the listed performance specifications, but no specific plan has been prepared.

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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.



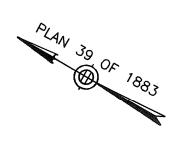
TMH RIM=77.9 ①



EVERETT M. BROOKS CO. SURVEYORS & ENGINEERS

49 LEXINGTON STREET WEST NEWTON, MA 02465

(617) 527~8750 info@everettbrooks.com





LEGEND

Ø UTILITY POLE

W WATER GATE

HYDRANT

G GAS GATE

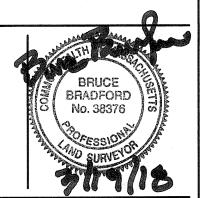
DRAIN MANHOLE

E CATCH BASIN

LIGHT POLE

71.4 X SPOT ELEVATION ----71 EXISTING CONTOUR

---- E ---- ELECTRIC LINE



PLAN OF LAND IN SOMERVILLE, MA

HENRY HANSEN PARK **EXISTING CONDITIONS**

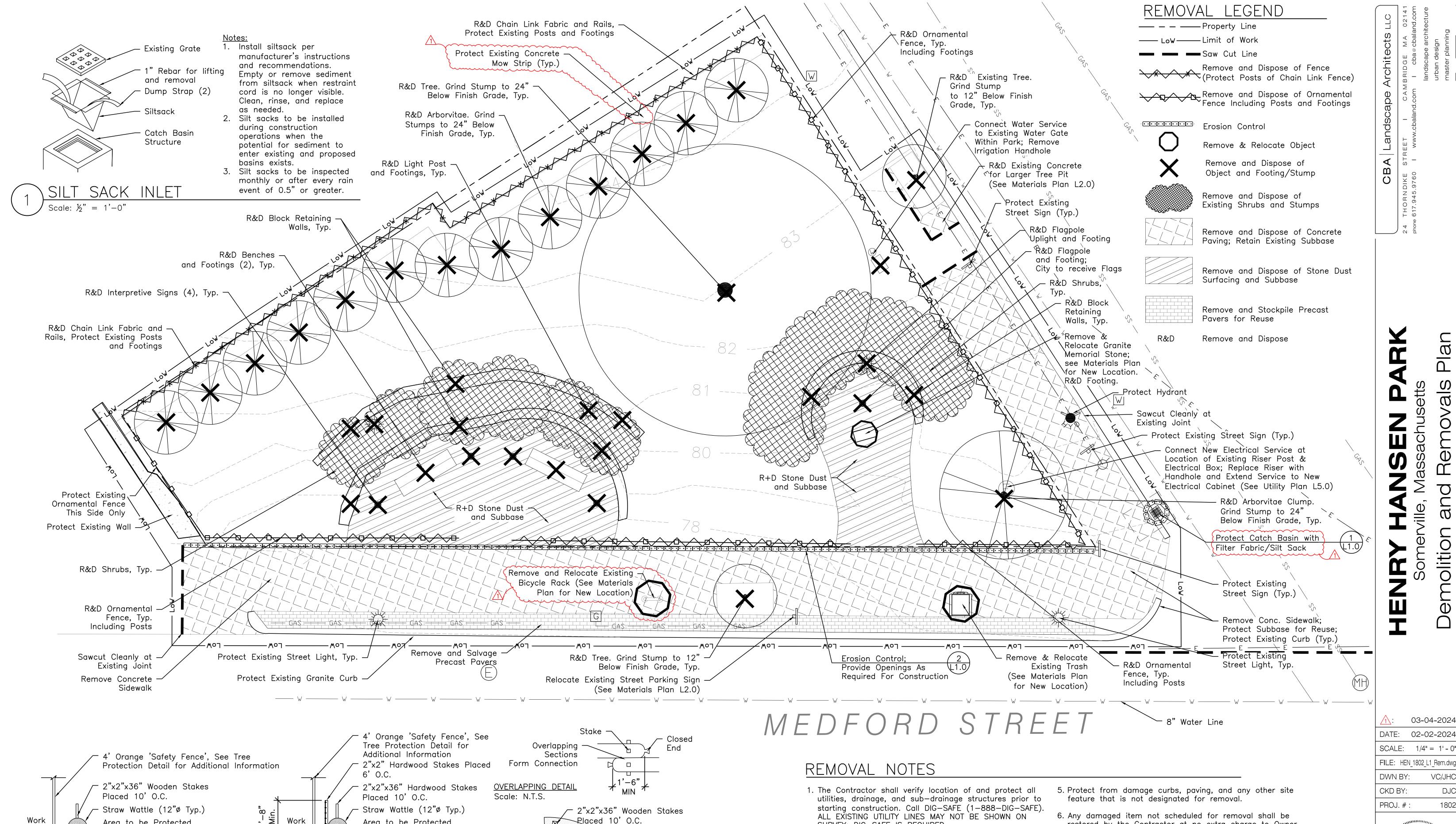
SCALE: 1 IN.= 10 FT. DATE: MARCH 19, 2018 DRAWN: GAR

REVISIONS:

CHECK: BB

3/28/18 VARIOUS

PROJECT NO. 25482



Area to be

Straw Wattle

(12" Typ.)

Protected

Work Area

STRAW WATTLE PLAN

Scale: $\frac{1}{4}$ "=1'-0"

Water Flow

Area to be, Protected Area to be Protected Work

STRAW WATTLE WITH SILT FENCE 100x or Approved

Blown/Placed

Bury Bottom of

Filter Fabric, Mirafi

Filter Media

Filter Media STRAW WATTLE WITHOUT SILT FENCE

Blown/Placed

1. Contractor to submit Straw Wattle product information for approval by Landscape Architect.

Equal; Staple Fabric Scale: $\frac{1}{2}$ "=1'-0" to Stakes

2. Follow all manufacturer's specifications and instructions. 3. Snow Fence to be placed in front of all erosion control.

- SURVEY; DIG-SAFE IS REQUIRED
- 2. Contractor shall complete all demolition and removals required to complete the intent of the proposed design.
- 3. The Owner shall have right of first refusal on all removed materials not indicated for reuse or stockpiling. Contractor is responsible for proper disposal of all refused materials, off—site and in accordance with all local and state regulations.
- 4. Protect from damage all removed items designated for reuse in the project, or for reuse or stockpiling by the City of Somerville. All materials claimed by the City for future use shall be delivered by the Contractor to the Department of Public Works storage yard.
- restored by the Contractor at no extra charge to Owner.
- 7. Temporary fencing with construction signage shall be installed around the perimeter of the work and staging areas to secure project site and notify the public of the closure for construction; see Specifications section 01 56 00 and 10 14 00. The Temporary Fencing shall be the minimum necessary to enclose the work and staging unless otherwise directed in the Field. All public pathways outside the indicated fencing shall remain open.
- 8. Contractor shall review items to be removed, proposed staging areas, access routes, and intended procedure for accomplishing the Work with the Landscape Architect and Owner's Representative prior to commencement of work.



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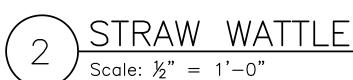
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03-04-2024

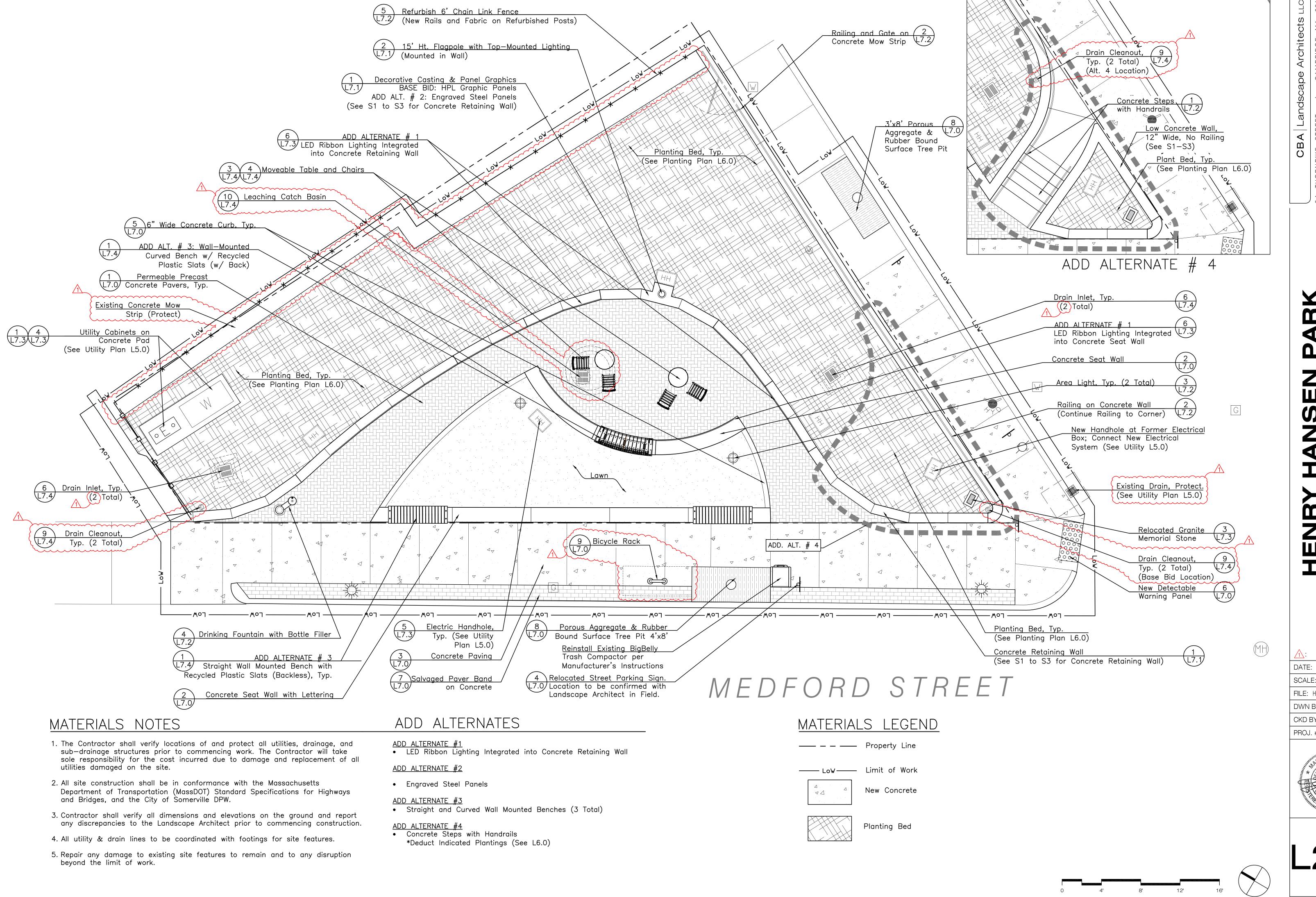
VC/JHC

DJC

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Scale: $\frac{1}{2}$ "=1'-0"



Architects I ape

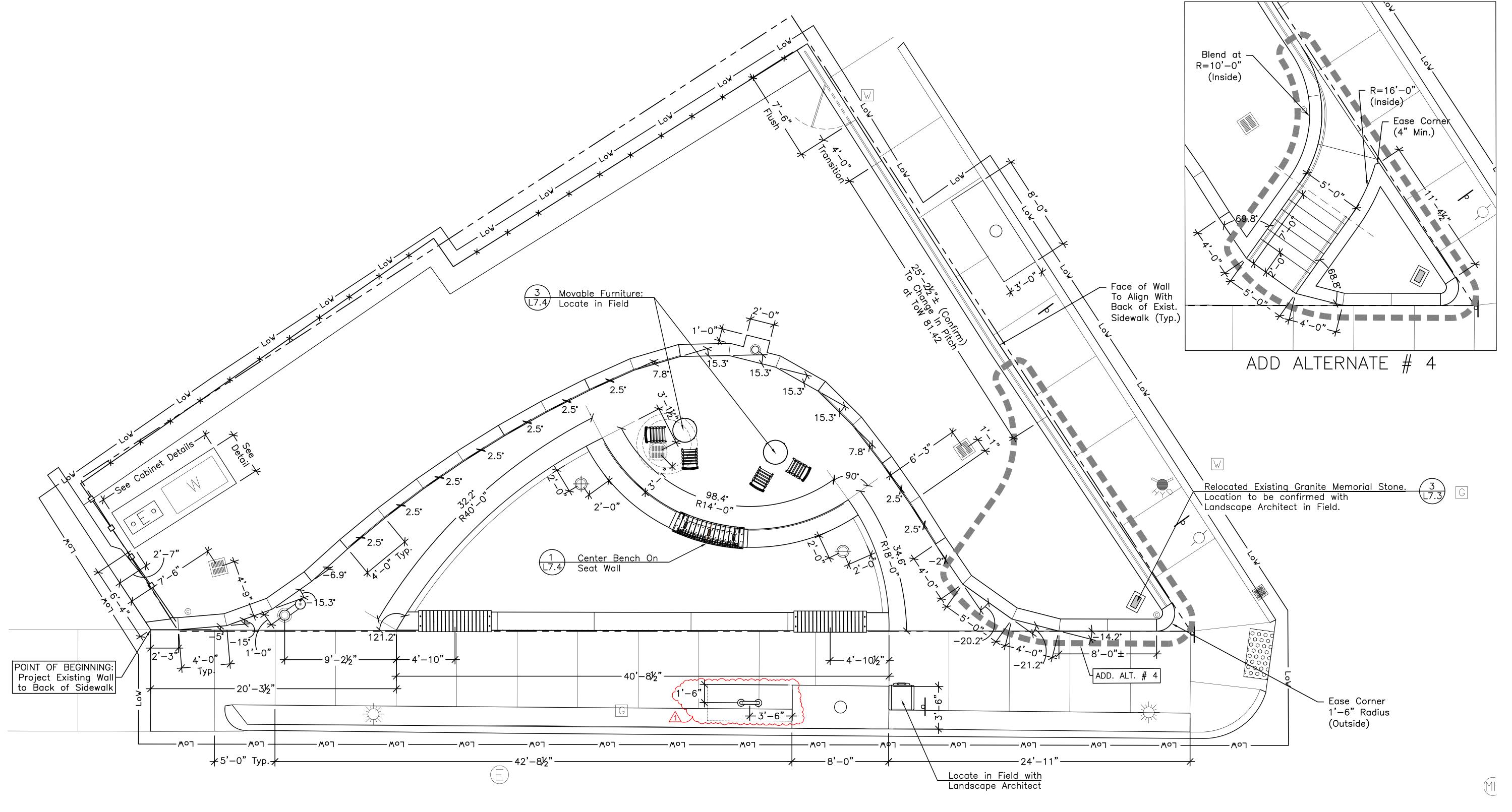
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03-04-2024 DATE: 02-02-2024

SCALE: 1/4" = 1' - 0"FILE: HEN 1802 L2 Mat.dwg DWN BY: VC/JHC CKD BY: DJC

PROJ.#:



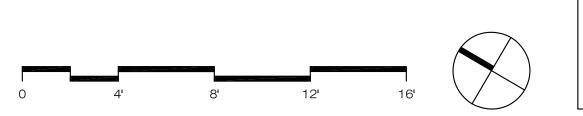


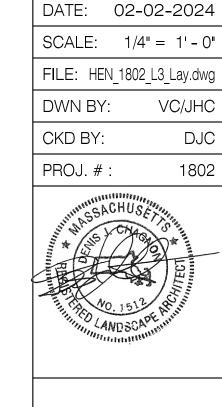
MEDFORD STREET

LAYOUT NOTES

- 1. 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.
- 2. Contractor shall verify all dimensions and elevations on the ground and report any discrepancies to the Landscape Architect before commencement of construction.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. Dimensions marked with "±" and/or "(VIF.)" 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.







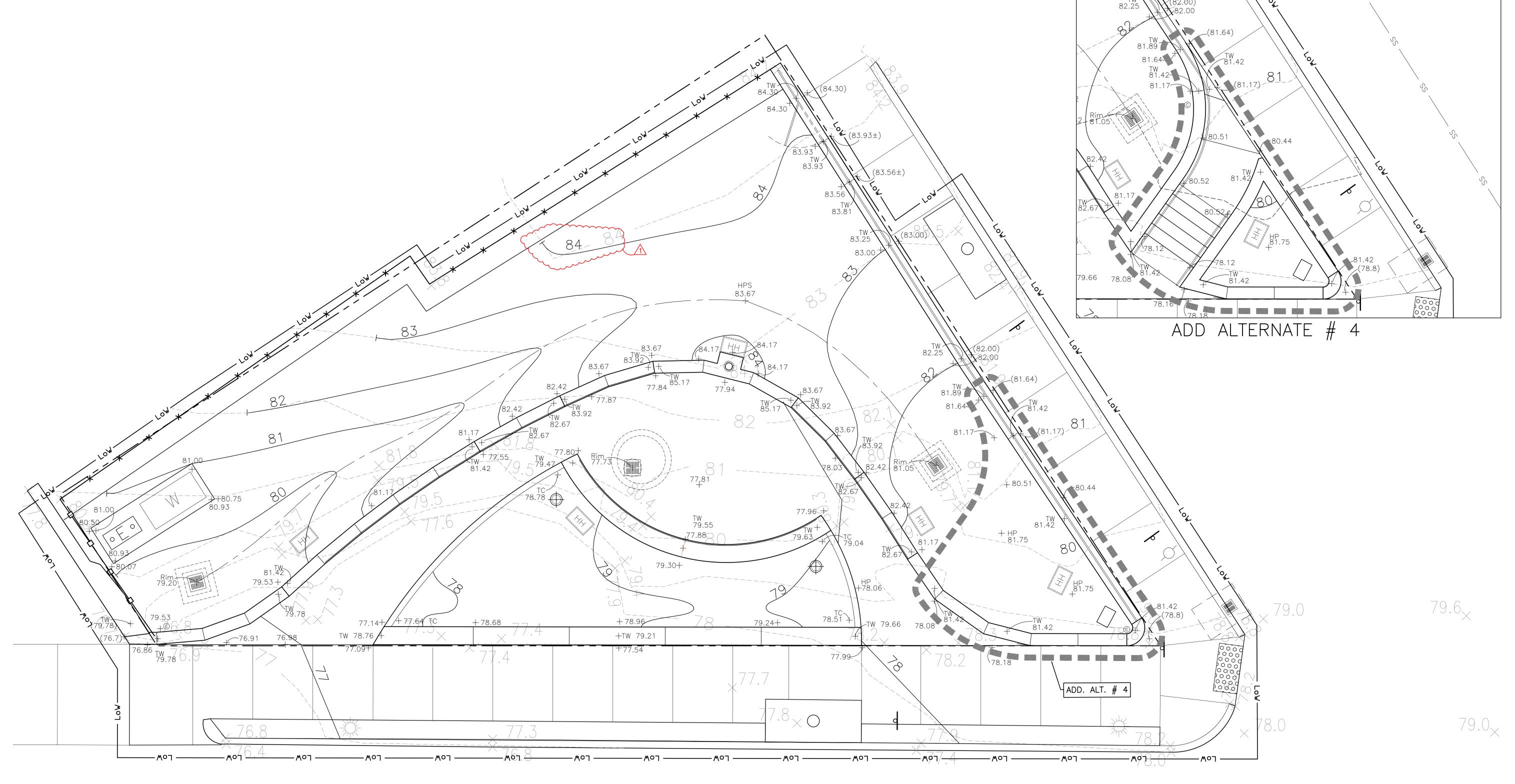
03-04-2024

CBA | Landsca

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HENRY

L3.0



MEDFORD STREET

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 ¼" 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	

DATE: 02-02-2024

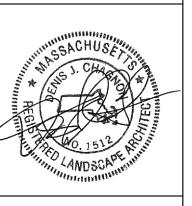
SCALE: 1/4" = 1'-0"

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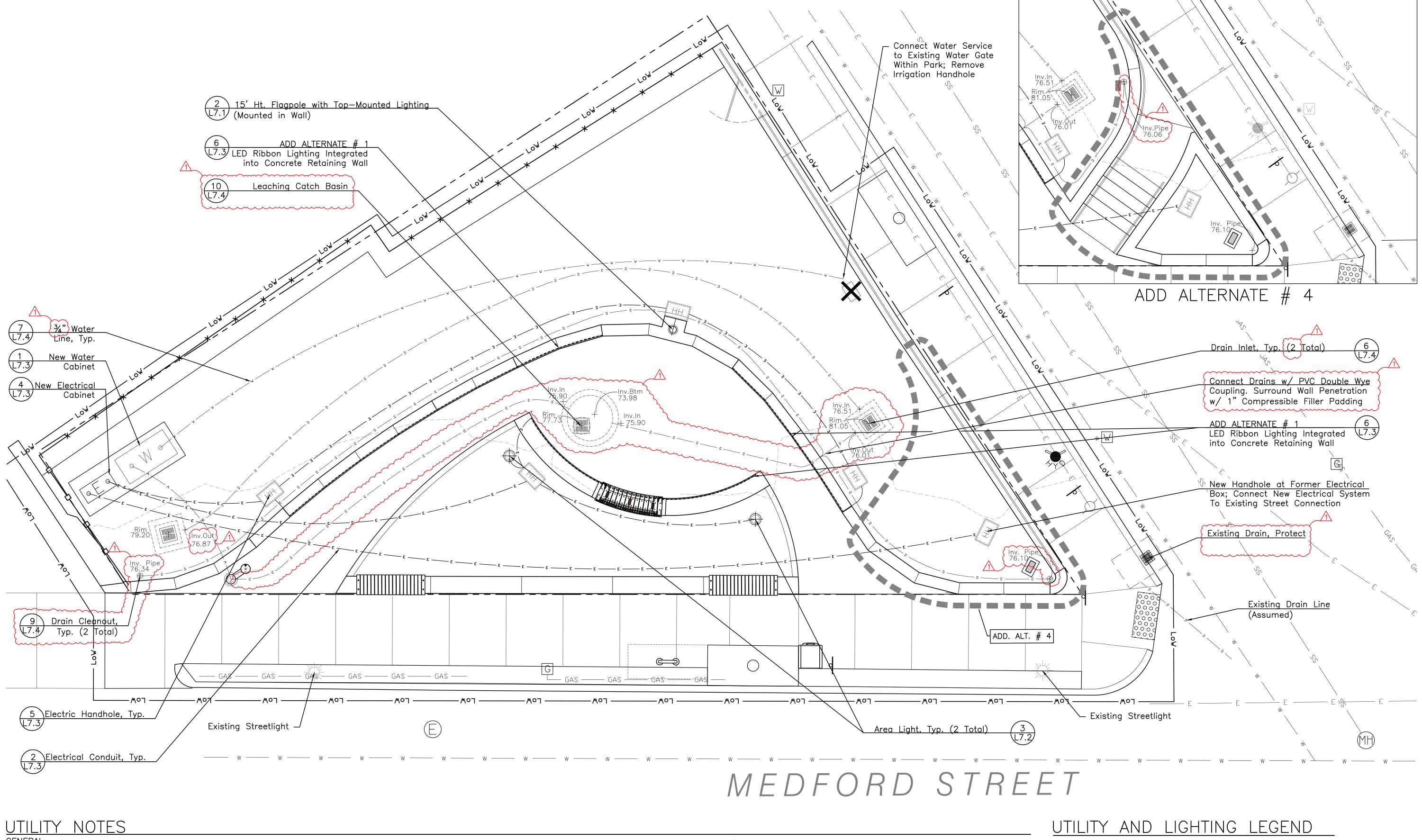
DWN BY: VC/JHC

CKD BY: DJC

PROJ. #: 1802



L4.0



GENERAL:

1. The Landscape Contractor shall protect all utilities prior to starting construction.

- 2. 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.
- 3. All covers & rims for drainage and utility structures are to be ADA compatible; replace covers which are not ADA compliant.
- 4. 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.

5. 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:

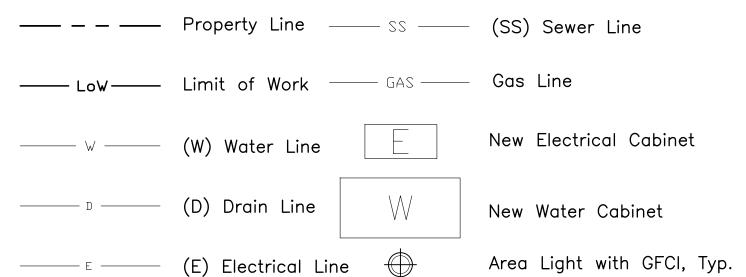
6. Extend existing electrical connection from current meter post to new electrical cabinet as shown; remove meter post and electrical box and replace with lockable in-ground handhole to facilitate connection.

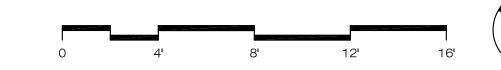
7. All Conduit to be $1\frac{1}{2}$ minimum unless otherwise approved.

DRAINAGE:

8. Landscape Contractor to verify all invert elevations prior to construction.

- 9. All covers & rims for drainage and utility structures are to be ADA compatible; replace covers which are not ADA compliant.
- 10. 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.







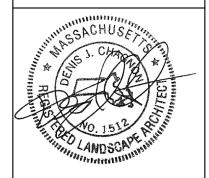
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03-04-2024 DATE: 02-02-2024 SCALE: 1/4" = 1' - 0"

FILE: HEN_1802_L6_Uti.&Lig.dwg DWN BY: VC/JHC CKD BY: PROJ.#:



L5.0

PLANTING LIST QTY BOTANICAL NAME NOTES COMMON NAME 32 ES 3-3.5" Cal., B&B Red Maple Acer rubrum 3.5-4" Cal., B&B LT Tulip Tree Liriodendron tulipifera 14 AM 3-3.5" Cal., B&B Persian Ironwood Parrotia persica 3-3.5" Cal., B&B Multi-stem Betula nigra 'Cully' Heritage (clump) Heritage River Birch Betula nigra 'Cully' Heritage (single) 3-3.5" Cal., B&B Single stem Heritage River Birch SHRUBS, PERENNIALS AND GRASSES COMMON NAME BOTANICAL NAME Achillea millefolium 'Paprika' 12" O.C., 12-24" Ht #1 Pot Yarrow False Indigo 18" O.C., 18-24" Ht 37 BA Baptisia australis #1 Pot Echinacea hybrida 'Cheyenne Spirit' #1 Pot 12" O.C., 18"-30" Ht 126 Cheyenne Spirit Echinacea 18" O.C., 24-36" Ht EΡ Echinacea purpurea 'White Swan' White Swan Purple Coneflower #1 Pot 56 PS #1 Pot 12" O.C., 18-24" Ht ES 93 Eragrostis spectabilis Purple Lovegrass 22 SS 18" O.C., 36"-48" Ht Monarda didyma 'Jacob Cline' Red Beebalm #1 Pot MDPhlox stolonifera 'Blue Emerald Cushion' Creeping Phlox 10" O.C., 4-6" Ht PS 2 Qt. 26 EP 17 24" O.C., 24-36" Ht PF Potentilla fruticosa 'Abbotswood' Shrubby Cinquefoil #3 Pot #1 Pot 18" O.C., 24-48" Ht 39 SS Little Bluestem Schizachyrium scoparium 20 ES #3 Pot 30" O.C., 3-4' Ht. VΡ 28 Viburnum prunifolium 'Ovation' Blackhaw Viburnum 17 BA ALTERNATE # 4 PLANT DEDUCTIONS: COMMON NAME BOTANICAL NAME 18 MD #1 Pot Achillea millefolium 'Paprika' Yarrow #1 Pot False Indigo -7 Baptisia australis Echinacea purpurea 'White Swan' #1 Pot -24White Swan Purple Coneflower #1 Pot Eragrostis spectabilis Purple Lovegrass 18 MD 2 BM 34 EH

ADD ALTERNATE # 4 30 EH PP 10 PF 13 BA 51 ES 17 SS 18 AM 32 AM 35 EP 23 EP 62 EH 23 EP 20 PS 68 PS 7 PF 18 EP 49 PS SOD ' SOD LAWN / 1: Plant placement adjusted; no ADD. ALT. # 4 other changes. Included for clarity.

PLANTING NOTES

- 1. The Contractor shall protect all utilities prior to starting construction.
- 2. The Contractor shall supply all plant materials in quantities sufficient to complete all planting shown on this drawing.
- 3. All plant materials to conform to guidelines established by the American Standard for Nursery Stock published by the American Assn. of Nurserymen.
- 4. All plant materials to be selected by the Landscape Architect at the nursery unless otherwise directed by the Landscape Architect.
- 5. All plants to be located on the site for approval of the Landscape Architect prior to installation.

- 6. If the Plant List does not agree with the Planting Plan, the Plan shall be followed.
- 7. The Contractor shall guarantee all plant materials for one year following installation.
- 8. All plant beds to receive 3" un—dyed shredded bark mulch; supply sample for approval by Landscape Architect.
- 9. 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.
- 10. No substitution of plant materials shall be allowed without approval of Landscape Architect.

IRRIGATION NOTES
1. 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,

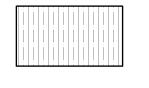
section 32 80 00.

- 2. 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.
- 3. '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.
- 4. Irrigation system to be guaranteed for one (1) year following installation. Contractor to provide first winterization and spring start up.
- 5. Contractor to provide irrigation sleeves under paved areas. Seal all pipe ends and joints tightly.
- 6. Contractor to provide an "As—Built Plan", which includes sleeve locations, zone information and Operation Instructions.
- 7. Location of rain gauge to be determined in field with Landscape Architect and Owner.
- 8. 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.

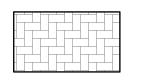
PLANTING LEGEND

— - - — Property Line

—— LoW—— Limit of Work



Porous Aggregate Surface Tree Pit



Permeable Concrete

PROJ. #: 1802

03-04-2024

VC/JHC

DATE: 02-02-2024

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

FILE: HEN 1802 L5 Pla.dwg

DWN BY:

CKD BY:

Architects |
MBRIDGE MA

CBA | Landscape A

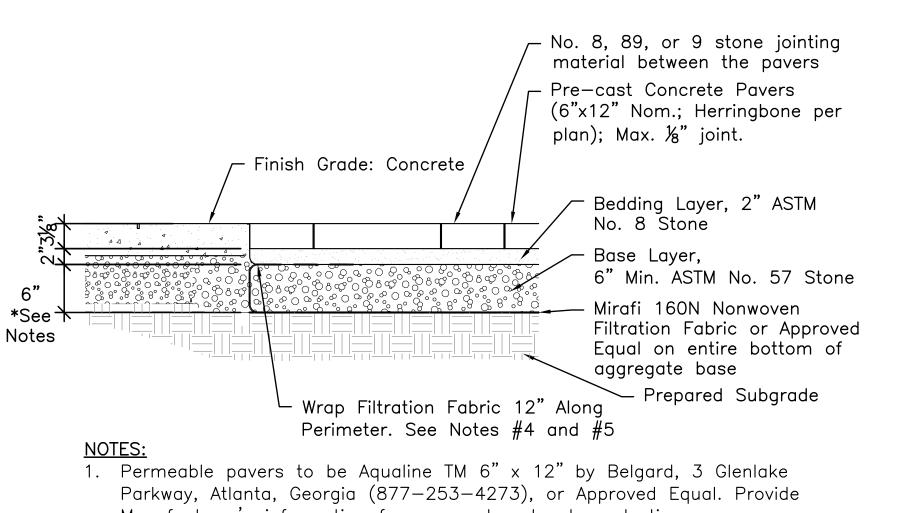
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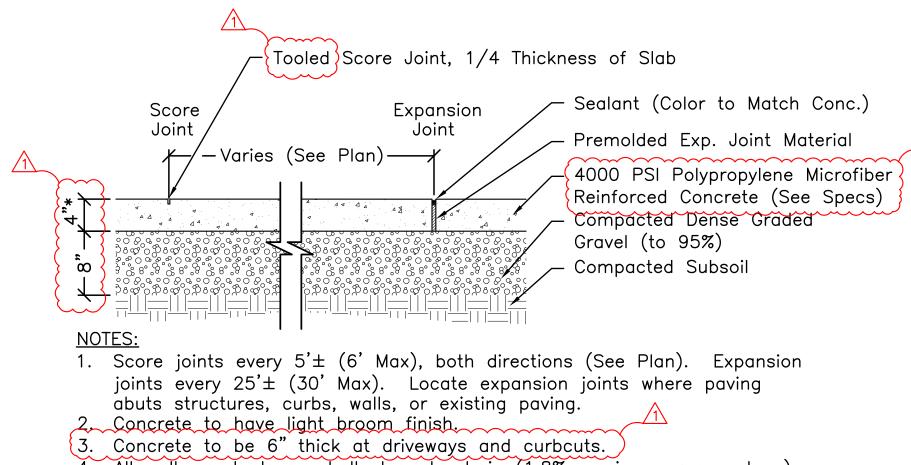
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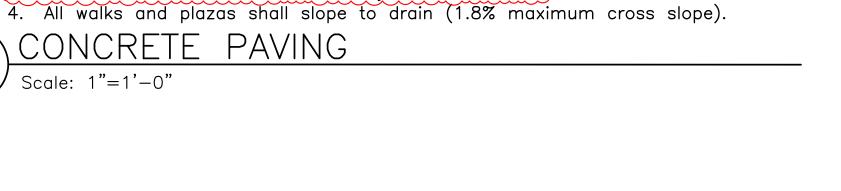
L6.0



- Manufacturer's information for approval and color selection.
- 2. Landscape Architect to select color from Manufacturer's full line. Lay pavers in patterns shown on plan.
- 3. Contractor to confirm infiltration rate of existing soils and notify Landscape Architect before beginning paving work.
- 4. Do not cover entire top of aggregate base with Geotextile.
- 5. Geotextile to be turned up at edges per Manufacturer's instructions.

PERMEABLE PRECAST CONCRETE PAVERS Scale: 1"=1'-0"





Existing Granite

Cast-in-Place

Pad 24"x48"

-Score Joint

Concrete

1. Pad to be Federal Color #20109, matching City

3. Install new Curb Ramp and Tactile Warning Panel;

DETECTABLE WARNING PANEL

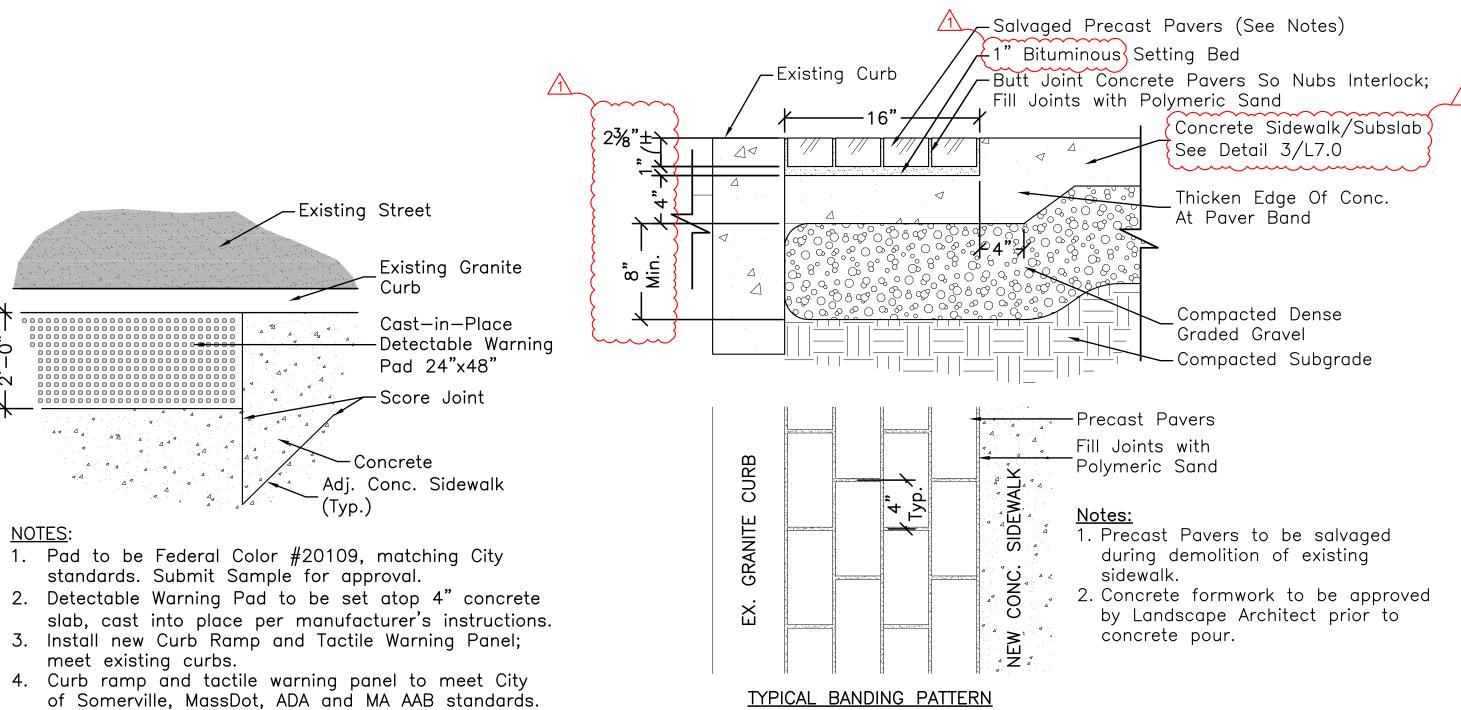
standards. Submit Sample for approval.

meet existing curbs.

NOTES:

Adj. Conc. Sidewalk

-Existing Street



SALVAGED PAVER BANDING ON CONCRETE

TYPICAL BANDING PATTERN

Scale: $1 - \frac{1}{2}$ " = 1'-0"

——±8'−0" (See Layout Plan)——/ · ½" Interrupted Chamfer (Typ.); See Axon Lawn or -/ 1'−6" / Control Joint at Top and Sides ¼"Th.x11"Ht. Aluminum Letters Set Plant Bed In ½"Dx14"Ht. Cast Recess (Shown), or Linear LED Lighting in 1"x1" Recess, As Indicated on L-2.0 (See Notes) Scale: $\frac{PLAN}{4}$ " = 1'-0" - Expansion Joint (Typ.) - Finished Grade Varies: Shown as Concrete X --- - 5000 PSI Concrete WallWith #5 Re-Bar, Chamfer Dimensions are 12"± OC along Centerline of Wall so that Chamfers on Each Side are Aligned Compacted Graded On Curved Wall Gravel 6" Min. All Sides, 12" Below #4 @ 16" O.C. Both Directions. Not Closer Than 2" To Exposed Edge. At Corners, Overlap Corner Bars 2'. Axon: Chamfer Layout

- 1. SHOP DRAWINGS INCLUDING JOINT LOCATIONS REQUIRED - See Layout Sheet L3.0 and Grading Sheet L4.0 for widths and elevations of wall and finish
- Conc. To Be 4000 PSI (28 Days) Air-Entrained; Super Plasticized with rubbed finish on top and all exposed faces. Wall may be precast or poured-in-place.
- All Rebar To Be No Closer Than 2" To Exposed Surface. 12" Min. Overlap At All Lap Splices.
- Control joints to be evenly spaced, at approx. 8' O.C. per plan. All Chamfered Edges to be laid out along centerline of wall along curve.
- Wall recess for lettering (straight wall) to be 1/2" deep by 14" high by 23'-2" long, with 11"x¼" Aluminum Letters reading "HENRY HANSEN MEMORIAL PARK" set on flush mount stud anchors (see specs for lettering information).
- 6. Wall recess for lighting (curved wall) to be as shown on Linear LED Lighting detail, 6/L7.3 (Alternate #1).
- 7. See 1/L7.4 for wall—mounted benches (Alternate # 3).

CONCRETE SEAT WALL WITH LETTERING Scale: $\frac{3}{4}$ " = 1'-0"

Existing Parking Sign

-Existing Sign Post

Concrete Sidewalk

2" Sq. Steel Tube

Anchor; Attach

Post To Anchor

Finish Grade:
Brick Paving

12"ø Conc.

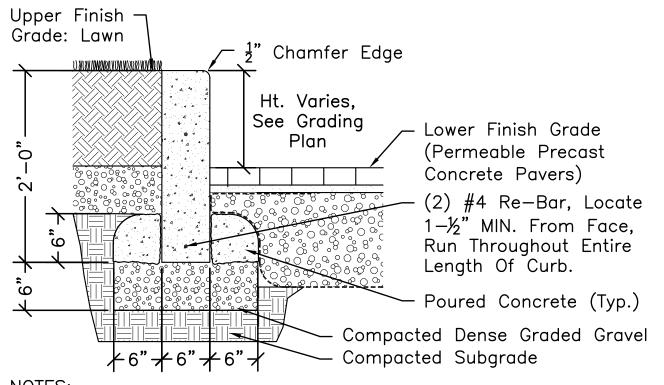
Footing

w/ 2 Bolts

X A

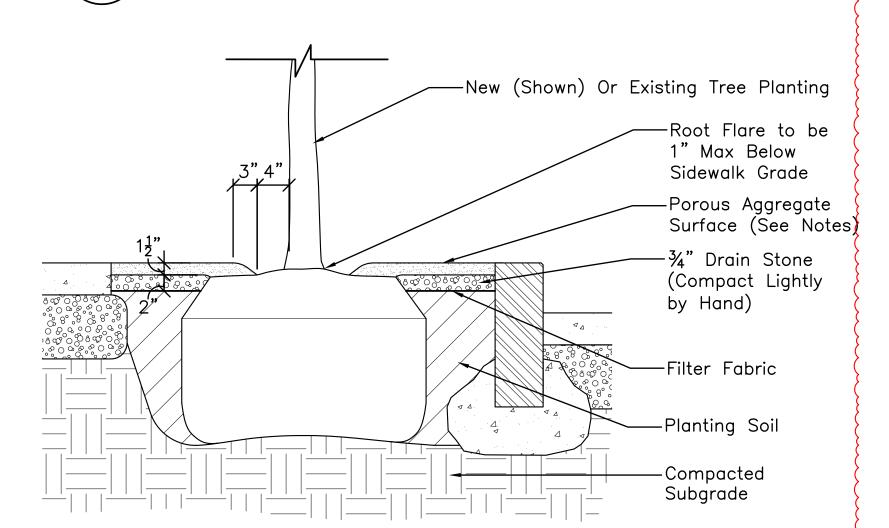
RESET STREET SIGN

Finish Grade:



1. Concrete To Be 5,000 PSI Air-Entrained, Super-Plasticized Concrete Top And 8" Down Front Face To Have Rubbed Finish. 2. All Concrete Edges To Be Butt Jointed With Adjacent Items And/Or Materials.

WIDE CONCRETE CURB



- 1. Porous Aggregate & Rubber Bound Surface to be a resin—bound mix of gravel and rubber particles by Perk-E-Pave, Porous Pave, FilterPave, or Approved Equal. See Specifications.
- 2. Leave 4" space from edge of porous surface to root flare for new trees, and 2" space or as instructed in the field by Landscape Architect for existing trees.
- 3. Colors to be selected by Landscape Architect from supplier's standard color range.
- 4. Must be installed by manufacturer certified personnel or authorized agent. 5. NOTE: Carefully work around root systems of existing trees when installing porous surface. NO TREE ROOTS SHOULD BE CUT.

POROUS PAVING TREE PIT DETAIL Scale: 1"=1'-0"

40 Steel Pipe $(2\frac{3}{8}^{\circ} \text{ O.D.})$ Finish Grade: Concrete ϕ_{16}^{7} " Holes for 3" Rebar by Installer 4,000 PSI Concrete Footing Compacted Dense Graded Gravel ø12" Compacted

8¼" Rad.

2" Schedule

Subgrade

1. Existing Bike Rack may be reused in lieu of new bike rack, if protected during demolition. If Contractor opts for replacement, submit proposed bike rack product for approval.

2. Finish to be powdercoated black. Touch up paint (if required) shall match original finish to the satisfaction of Owner's Rep.

BIKE RACK

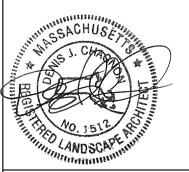
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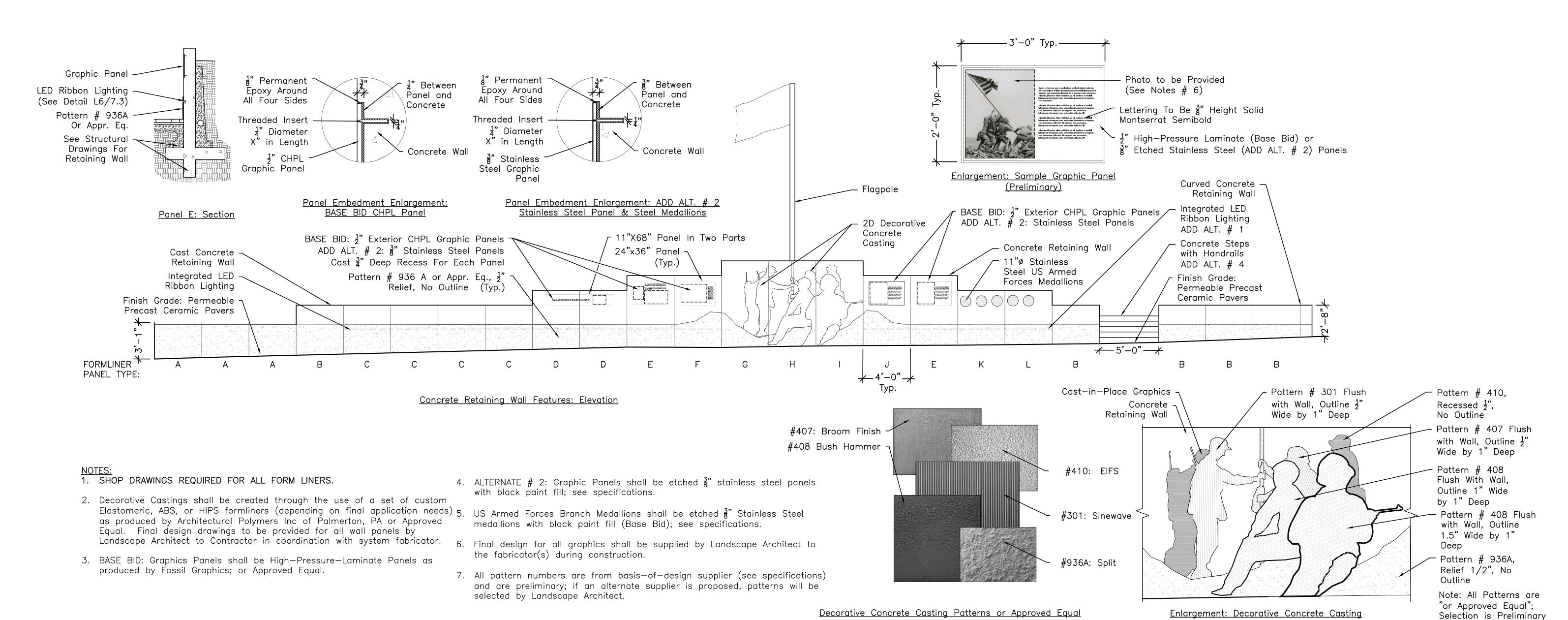
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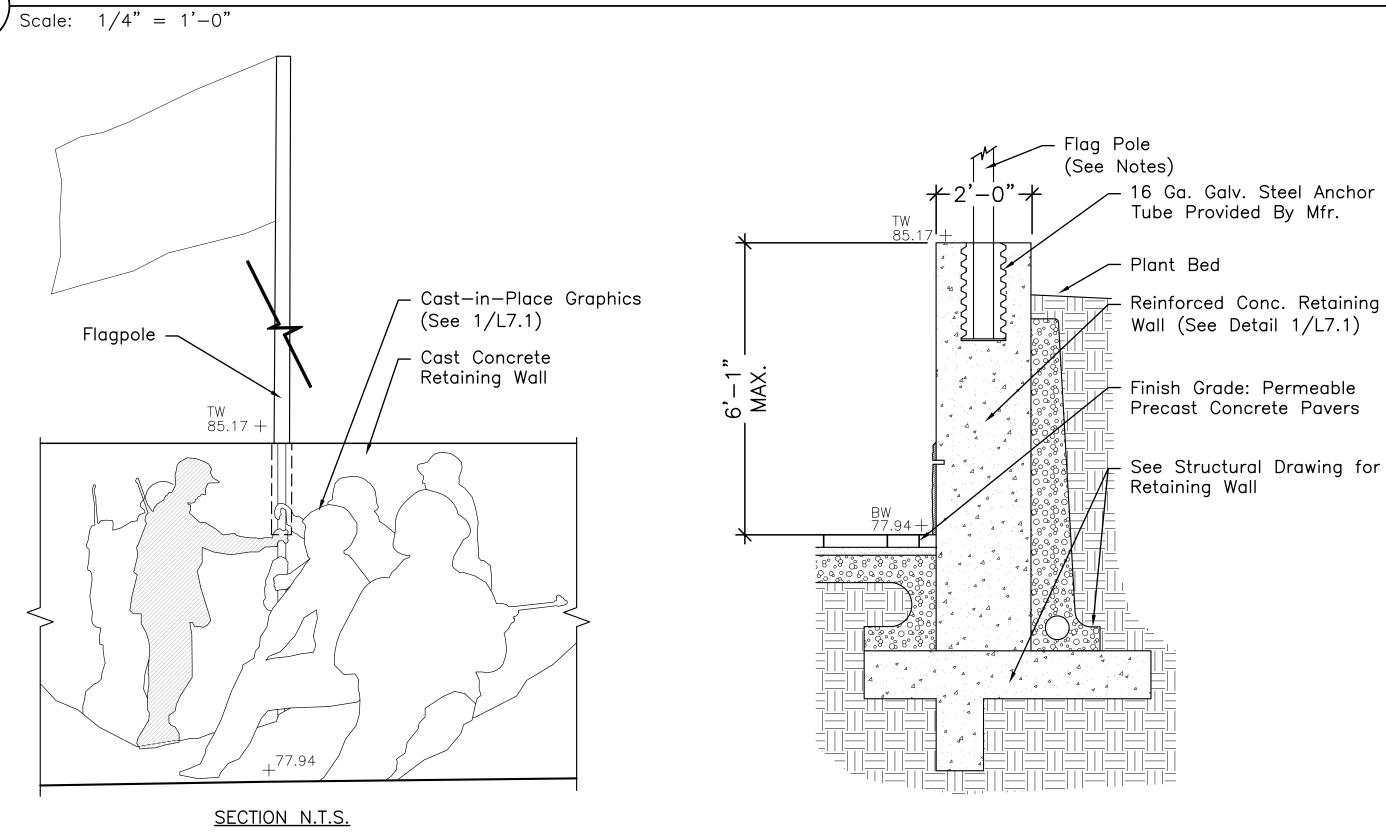
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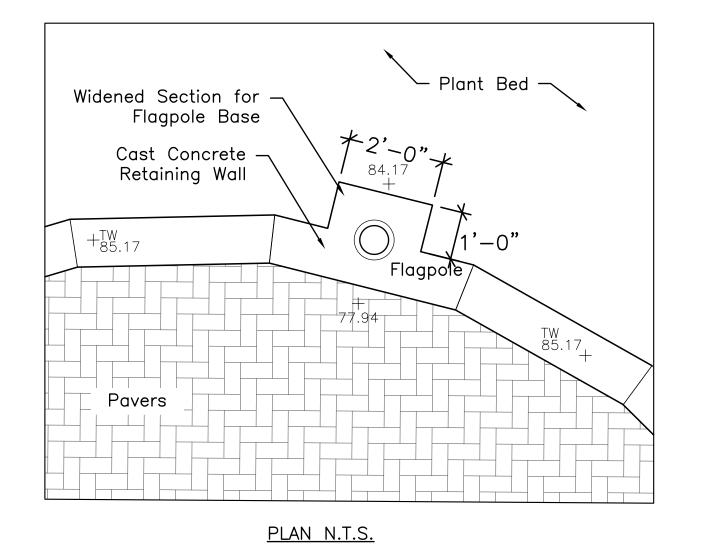
DWN BY: VC/JHC CKD BY: PROJ.#:





DECORATIVE CASTINGS AND GRAPHIC PANELS ON CURVING CONCRETE RETAINING WALL





halyard system with revolving truck and integrated Dark Sky compliant LED Downlight.

5. Flagpole is to be Model SG-PA-GS-INT-RP15x5x188-1-SAT by Eagle Mountain Flag &

Flagpole, or Approved Equal. 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

Power Supply for Dome Downlight by Eagle Mountain Flag & Flagpoles, item code DDLAGDRIVER, or Approved Equal. Power Supply to be located in Electrical Cabinet. Or in adjacent handhole if rated for in-ground installation.

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

6. A United States Flag shall be supplied by the

Eagle Mountain or Approved Equal.

Down Light to be powered by Above-Ground

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DATE: 02-02-2024

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

FILE: HEN 1802 L7 Det.dwg

DWN BY:

PROJ.#:

CKD BY:

- 1. SHOP DRAWINGS BASED ON FIELD MEASUREMENTS REQUIRED.
- 2. Treads to have light broom finish; risers to have rubbed finish. Ease exposed edge of treads.

Conduit Size & No. as Reqd.

Chamfer (Typ.).

Clear Cover to Ties

Anchor Bolts per Pole Mfr.

Finish Grade (Varies)

Minimum 36" Long.

— 4000 P.S.I. Concrete.

— 6 #5 Vert. Rebars with

-3/4" x 10' Copperweld

Ground Rod by Elect. Contr.

#3 Ties @ 10 0.C..

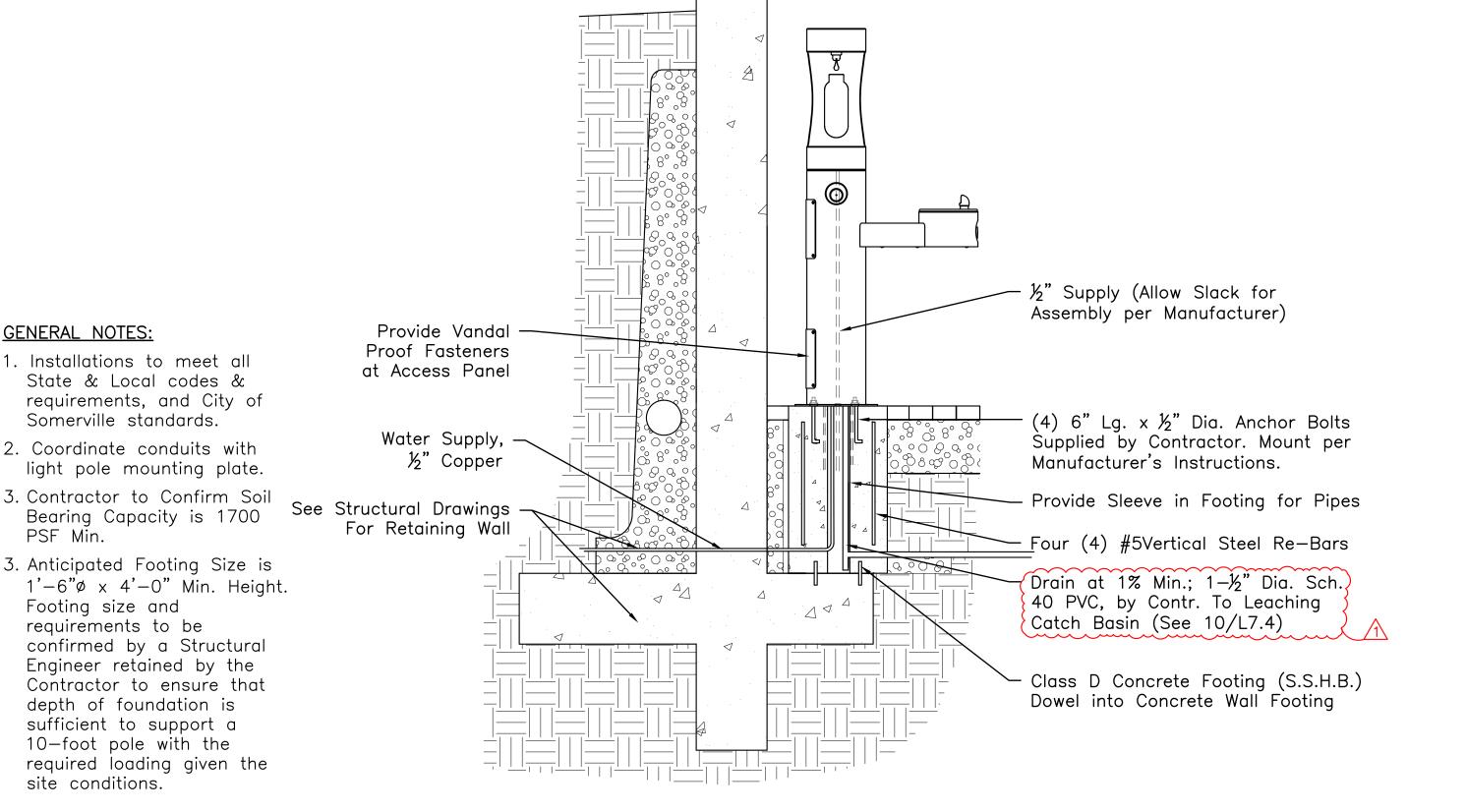
🚱 🖰 Compacted Graded Gravel.

🚟 Compacted Subgrade.

Conduit for Ground Wire.

- 3. All steel to be color galvanized Black; See Specs.
- 4. Weld and grind smooth all edges.

CONCRETE STEPS WITH HANDRAILS (ADD ALTERNATE # 4) Scale: $\frac{1}{2}$ " = 1'-0"



PRODUCT NOTES:

- 1. Luminaire to be Denali Pole Top PT-DE-TR-1000-X99-FL-12-A-010V-120V-BLP, by BK Lighting Inc, or Approved Equal; See Specifications.
- 2. Post to be Lexington Pole 450P4-10-.188-GFI(LPIUC)-TENON(2-3/8"OD X4"TALL)—STANDARD FINISH, by Sternberg Lighting, or Approved Equal; See Specifications.

Drinking Fountain to be EZH2O Bottle Filling Station by: Elkay Outdoor, Downers Grove, IL, Model#LK4420BF1U or Approved Equal. Color to be Selected from Full Range of Colors. Stainless Steel Bowls.

SHOP DRAWINGS REQUIRED

- 2. Provide a Dielectric Union at Pipes of Dissimilar Metals 3. Install to Meet all Local, State, and Environmental Regulations.
- 4. Install to Meet all Handicap/ADA Regulations.

AREA LIGHT FOOTINGS & FIXTURE TYPE

GENERAL NOTES:

PSF Min.

Somerville standards.

Footing size and

requirements to be

depth of foundation is sufficient to support a

10-foot pole with the

site conditions.

DRINKING FOUNTAIN WITH BOTTLE FILLER

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

—Post (Тур.) ← Railing <u>PLAN</u> ADD ALT. # 4 NOTES:
1. SHOP DRAWINGS REQUIRED. Railing To Join Staircase Handrail Existing Chain Link — $_{\prime}$ All Rails to be 1-1/4" Fence End post 2. All posts to be plumb. Rails to Schedule 40 Steel Pipe parallel concrete sidewalk. 3"MAX (1.660" Actual O.D.) Weld and grind smooth all edges. Finish to be color galvanized. Color to be selected 12" Radius by Landscape Architect. Touch (Typ.) up on site. Score joints to be created between posts. Locate expansion — Lockable joints where paving abuts Gate structures, walls or existing - MHH-180 Heavy paving, and every 30' Max. O.C. Duty Hinge or Concrete to be 4000 PSI (28 Gate Latch, Approved Equal days) with light broom finish. See Notes **ELEVATION** 5. Submit full manufacturer's information for all accessories. Edge of Railing — Post Latch to be a lockable Footing heavy—duty latch (Strong—Arm Core/Sleeve Edge of by Ameristar or Approved Equal) **1'** - Expansion Joint with Sealant PLAN VIEW where Mow Strip Abuts Concrete Sidewalk Finish Grade Railing Post -– Finished Grade: ʒ̃" Deep Joint Sealer (Planting Bed) - Non-Shrink Grout (Concrete Sidewalk) Rebar Cont. 8" Diameter Galv. Stl. Sleeve or Core Drill Past Posts 4000 PSI - Mow Strip (See Above); Concrete Haunch Down to Join Footing - 12"x12"x48" Conc. Footing Footing Compacted Compacted Processed Gravel Graded

RAILING ON CONCRETE MOW STRIP

Compacted Subgrade

SECTION BB

Existing Post · Knuckled Selvage (Top And — 1−%"ø Top Rail to be Reused; Bottom Edges Of Mesh) Paint Black Existing Corner/End Post w/ Cap To be Reused, Typ. (Replace Caps Where Missing) Stretcher Bar Bar Bands @ 12" Intervals 2" Mesh Chain Link Fabric: Gauge Core Wire, PVC Coated Black, 6 Gauge finish Banded Fasteners (Or Equal) @ 12" Intervals Bottom Of Mesh To Be 1.5" Above Finish Grade

Gravel

Compacted

Subgrade

SECTION AA

NOTES:
1. SHOP DRAWINGS REQUIRED.

- 2. All mesh and clips/ties to be covered with black fused—and—bonded PVC. All other new members to be black perma-coat color galvanized (See Specifications).
- 3. All posts that are to be reused are to be cleaned and painted black; See Specifications. 4. All Rail—To—Rail connections to occur at posts.

HT. BLACK CHAIN LINK FENCE W/ REUSED POSTS

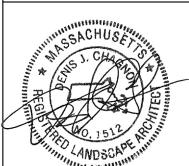
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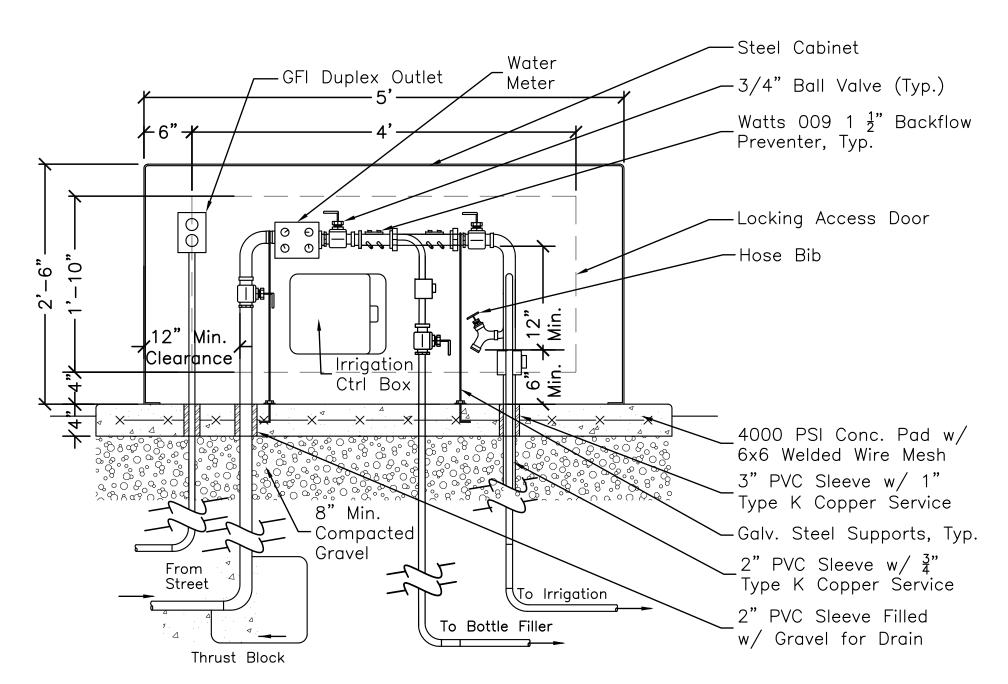
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FRONT ELEVATION



Edge Of Door Opening In Door -1/4" Lock Rail ¬ 1/2" Steél Plate Welded To Cabinet Hole To Accomodate City Of Somerville Standard Lock And Be Located So Lock Will Hold Door Tightly. Provide Lock. SIDE VIEW FRONT VIEW

-Outside of Cabinet —Edge of Door Continuous Weld Double Gauge Thickness Along Entire Edge TOP VIEW OF DOOR EDGE

-Plant Bed (Typ.)

Interruptor Duplex

-Steel Water Cabinet

Ground Fault

-Concrete Pad

2" Continuous

Six 3/8"ø Galv.

-Water Out: 3/4"

Drainage Pipe

-Water In: 3/4"

-Front Door & Hinge

With Stone

-Locking Tab

Steel Anchor Bolts

Base Flange

Receptacle

LOCKING TAB

SHOP DRAWINGS REQUIRED.

Scale: $\frac{3}{4}$ " = 1'-0"

∤To Elec.

Cabinet

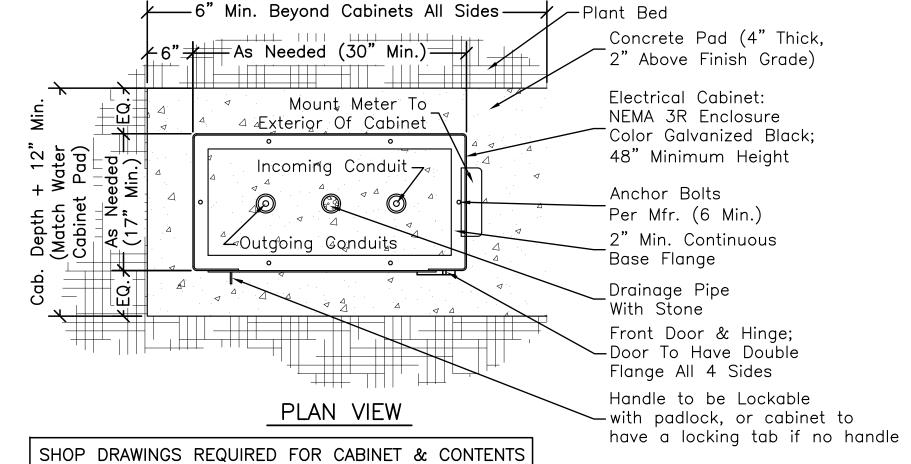
- 2. Contractor to purchase Water Meter from City of Somerville and install Meter in Cabinet as indicated
- 3. Contractor to provide Lock which meets City of Somerville requirements (Combination Padlock). 4. Irrigation spray heads need 10 PSI per head. Contractor shall procure and install Additional Pressure
- Regulators on each line as required to provide appropriate pressures for operation.
- 5. Irrigation Controller/Clock to be located in Water Cabinet.

PLAN VIEW

Edge Of Cabinet —

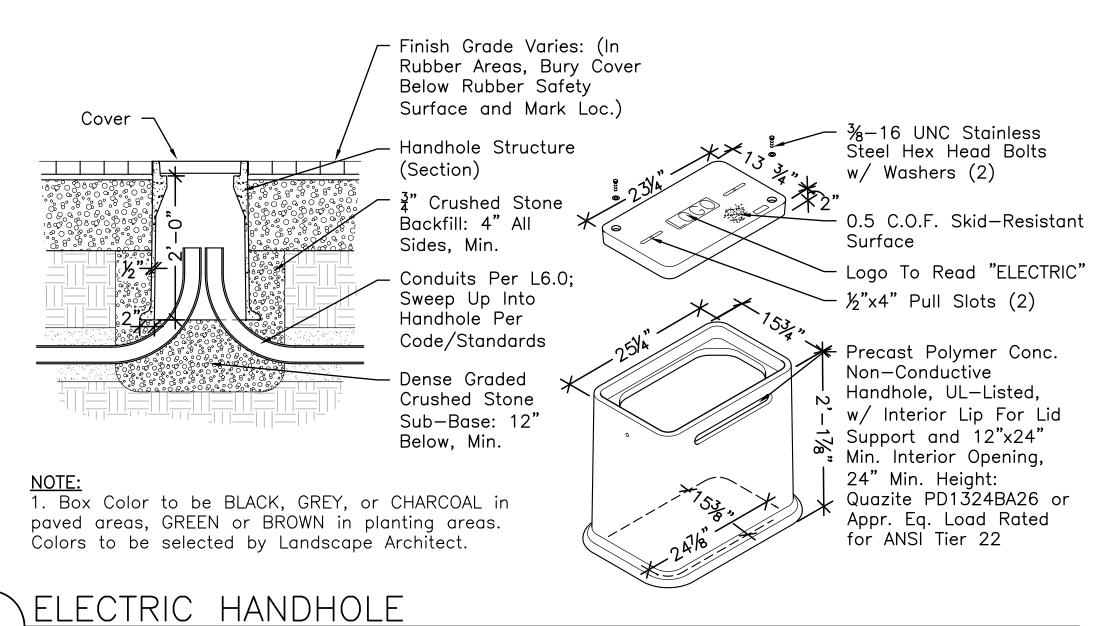
SECTION

WATER CABINET WITH GFI ON CONCRETE PAD



- NOTES:
 1. 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 Electrican 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.
 4. Cabinet shall be a UL—Listed, Ventilated NEMA 3R enclosure of 14—ga. minimum steel (color galvanized black). See Specifications.





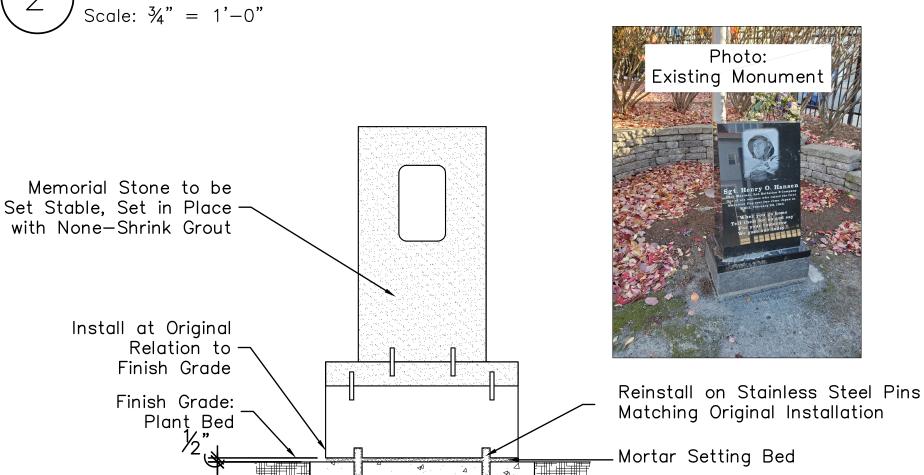
—Finish Grade (Varies) — Per F.G.; 12" Min. Loam In All Planted Areas 6" Wide 1500 PSI Poly Warning Tape Per Specs Dense Graded Crushed Stone As Needed (Typ) Sand or Conc. Embedmt. (See Notes & Specs) PVC Conduit Sch. 40/80 (See Notes) See Utility Plan For Conduit Size

1. All Conduit installation to meet all applicable State, Local, and Federal Codes, and all City of Somerville Standards.

2. 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.

3. 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.

CONDUIT INSTALLATION



Topsoil

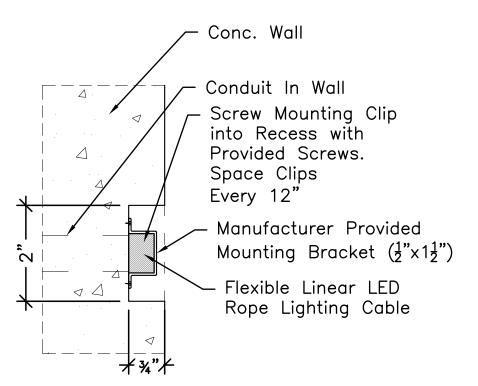
Concrete Base

- Compacted Subgrade

- Compacted Dense Grade Gravel

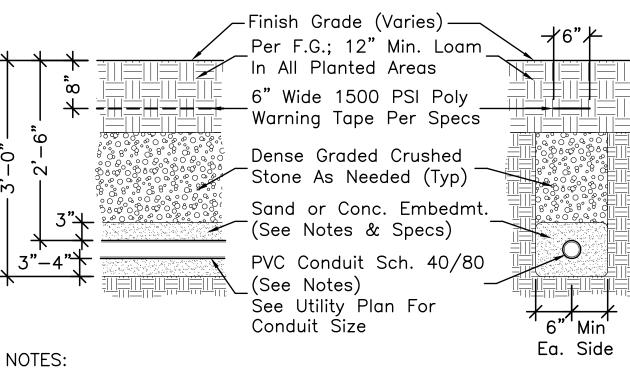
1. Final layout of monument stone to be approved by Landscape Architect in the field.

RESET EXISTING MONUMENT STONE



- 1. Install according to all applicable codes and per manufacturer's instructions. Confirm all grounding.
- 2. Secure rope light to recess with provided clips each 12".
- 3. 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.
- 3. Remote drivers with NEMA3R enclosure mounted within adjacent handholes. See basis-of-design numbers above.

<u>ED RIBBON LIGHT (ADD ALT. # 1)</u> \int Scale: 6" = 1'-0"



4 m \circ

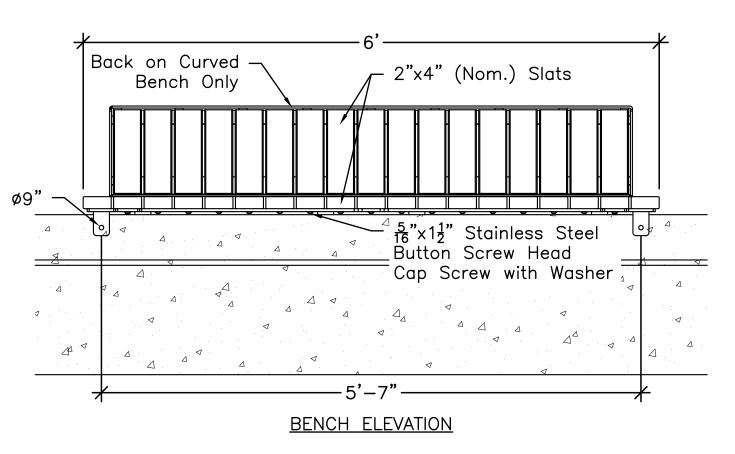
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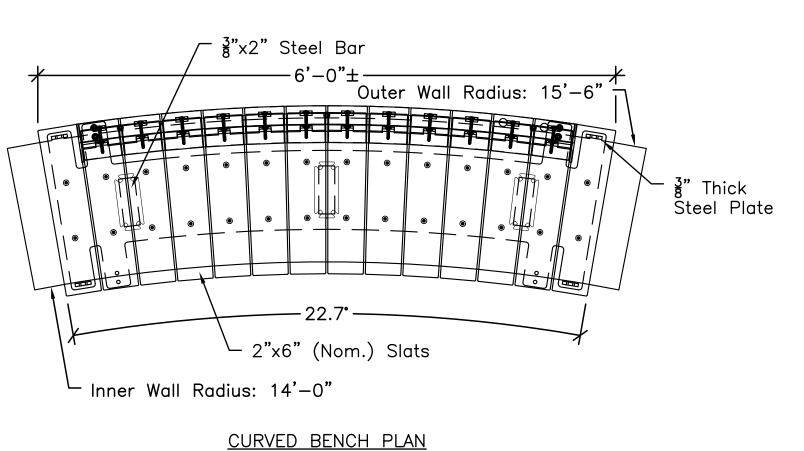
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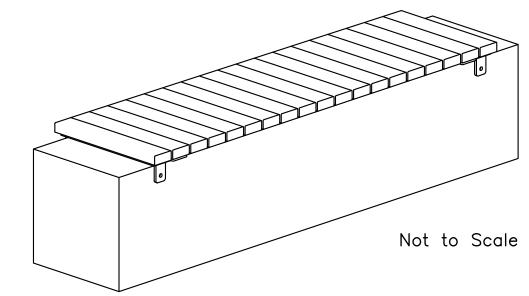




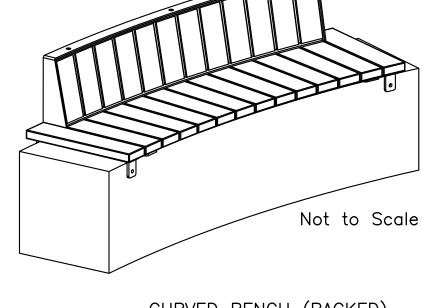
Never cut a leader. Cut & remove burlap from trunk of tree. Tree shall bear same relation to finish grade as to previous grade. Use Watering Bags (GatorBags or Equal) Stake in Place Adjacent to Tree, Size Stake Appropriately 3" Mulch, Hold Back From Trunk Cut & Remove Burlap From Top 1/3 of Ball; Remove Wires Completely Finish Grade Planting Soil Mix: 5 Parts Topsoil & 1 Part Humus/Peat Compacted 2 Subgrade TREE PLANTING

Notes: 1. SHOP DRAWINGS REQUIRED.

- 2. Straight Benches to be DuMor Model #6B-405-61, or Approved Equal. Curved Benches to be DuMor Model #64-224, or Approved Equal.
- 3. Installation to be completed in accordance with Manufacturer's
- 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.





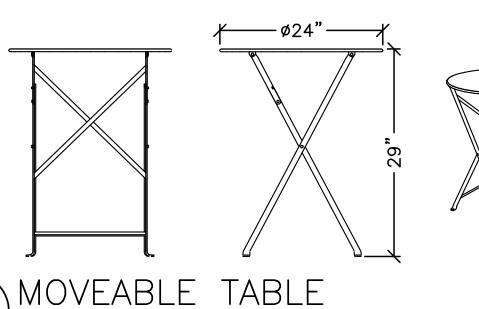


CURVED BENCH (BACKED)

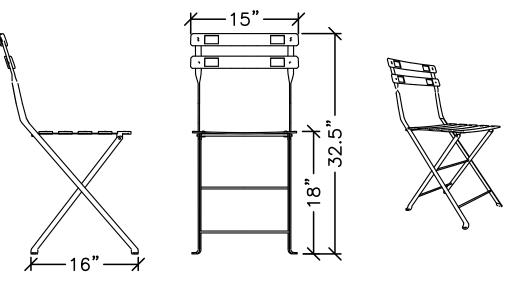
WALL-MOUNTED BENCH W/ SIMULATED WOOD-GRAIN RECYCLED PLASTIC SLATS (ADD ALT # 3)

Scale: 1" = 1'-0"

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



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



"Long 90""

MOVEABLE CHAIR

Notes:

1. SHOP DRAWINGS REQUIRED.

2. Moveable Chairs to be Bistro Metal Folding Chairs (Model #010129) by Fermob, or Approved Equal. Installation to be completed in accordance with Manufacturer's

Specifications. Contractor to touch up all damage to finished with manufacturer's

Set Shrub Plumb on

Original Grade of Plant

Firm Soil. Maintain

After Transplanting

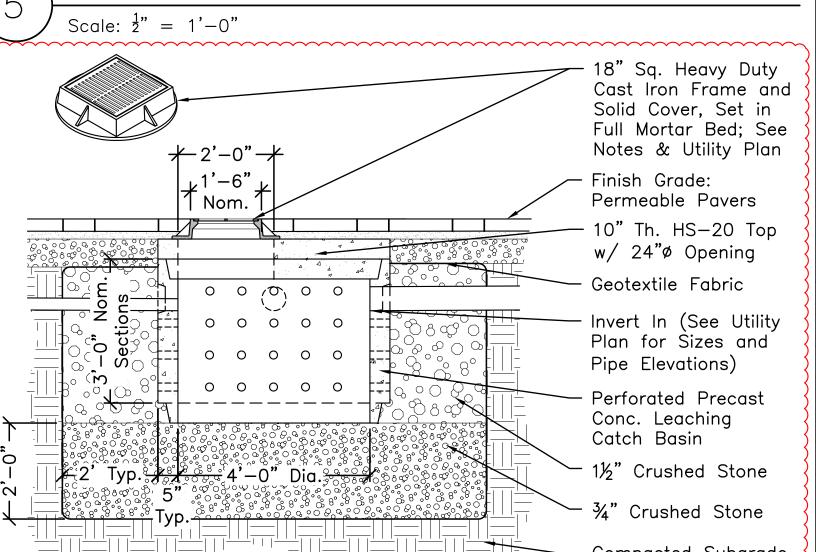
3" Mulch Min. Depth

- Cut & Remove Burlap

From Top 1/3 of Root Ball

provided touch up kit. 5. Color to be Verbena.





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.

3. Seal all interior and exterior joints and all openings at inlet pipes with nonshrink hydraulic grout. Joints between sections to have butyl rubber sealant.

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

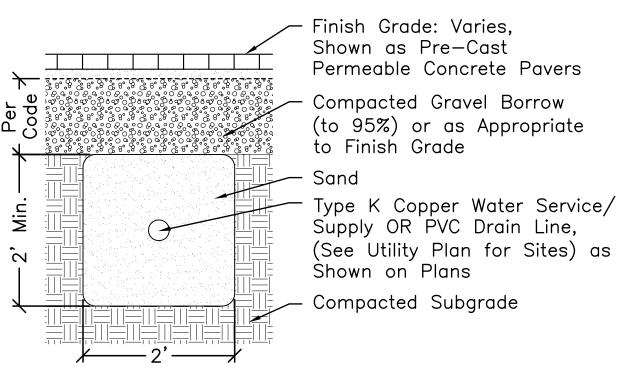
ADA Compatible Drainage Grate and Frame: Slotted Grate, 16" (Nominal) Square or Appr. Eq. Finish Grade: Set Frame in Full Mortar Bed. Plant Bed See Grading Plan For Elevation. Inlet (See Utility Plan) PVC Outlet Pipe; See Utility Plan. Min. Slope: Concrete Compacted Subgrade

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 arate. 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.



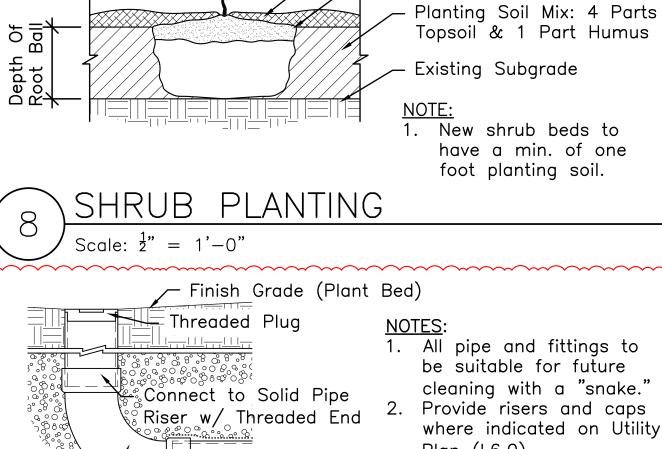
SCALE: 1" = 1'-0"



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.

WATER SUPPLY LINE/DRAIN LINE Scale: $\frac{3}{4}$ " = 1'-0"



1. All pipe and fittings to cleaning with a "snake." Provide risers and caps where indicated on Utility Plan (L6.0). 3. Caps to be a 4"ø Male

NPT Flush Cleanout Plug (no vertical projection).

DRAIN CLEANOUT Scale: $1\frac{1}{2}$ " = 1'-0"

DWN BY: CKD BY: PROJ.#: Compacted Subgrade

Plant Spaced as Shown on Drawing

-Double Dig & Add 1 Part Humus

3" Mulch

-Finish Grade

- Subgrade

to 4 Parts Topsoil

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.

4. Coat structure with two (2) coats of bituminous dampproofing.

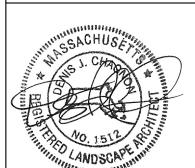
LEACHING CATCH BASIN

Z W U,

CBA

03-04-2024 DATE: 02-02-2024 SCALE: 1/4" = 1' - 0"FILE: HEN 1802 L7 Det.dwg

VC/JHC



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.

- 1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH IBC 2015, IEBC 2015, AND ANY APPLICABLE MIDDLESEX COUNTY AND MASSACHUSETTS STATE BUILDING CODES AND REGULATIONS.
- 2. UNLESS SPECIFICALLY STATED OTHERWISE, THE MOST RECENT EDITION OF ALL CODES AND STANDARDS SHALL APPLY.
- 3. THE CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE LATEST EDITION OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
- 4. 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.
- 5. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS PRIOR TO STARTING THE WORK.
- 6. 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.
- 7. 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.
- 8. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION AND/OR CONSTRUCTION ACTIVITIES WITH THE OWNER.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. 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
- 13. 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.
- 14. 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
- 15. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL JOB SITE SAFETY DURING CONSTRUCTION.
- 16. 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.
- 17. 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.
- 18. 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.
- 19. 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.
- 20. THE CONTRACTOR SHALL ARRANGE FOR, OBTAIN, AND PAY FOR ALL OTHER TEMPORARY UTILITIES AND HOOKUPS NECESSARY TO COMPLETE THE WORK EXCEPT AS STATED OTHERWISE.
- 21. THE CONTRACTOR SHALL PROVIDE TEMPORARY MEASURES AS REQUIRED TO CONTROL DUST AND FUMES IN WORK AREA.
- 22. 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.
- 23. SMOKING SHALL BE PROHIBITED DURING OPERATIONS WHERE THERE ARE COMBUSTIBLE MATERIALS PRESENT. "NO SMOKING" SIGNS SHALL BE CLEARLY POSTED IN THESE AREAS.
- 24. CLEANUP AND DEBRIS REMOVAL SHALL BE UNDERTAKEN DAILY AND SHALL BE SATISFACTORY TO THE OWNER.
- 25. 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.
- 26. CONTRACTOR TO PROVIDE ALL NECESSARY EROSION CONTROL AND PREVENTION AS REQUIRED BY ALL LOCAL AND FEDERAL LAWS

MATERIAL REQUIREMENTS

CAST-IN-PLACE CONCRETE

- 1. REFERENCE SPECIFICATIONS SECTION 03 30 00 FOR COMPLETE REQUIREMENTS, INCLUDING REQUIREMENTS FOR SINGLE-USE FORMLINERS FOR ARCHITECTURAL CAST-IN-PLACE CONCRETE.
- 2. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2014 VERSION OF THE ACI BUILDING CODE (ACI 318-14), THE ACI
- 3. 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
- 4. SLUMP TESTS SHALL BE MADE DURING PLACEMENT OF CONCRETE OF READY MIXED CONCRETE AND SHALL MEET THE FOLLOWING:
 - A. 3" MAXIMUM PRIOR TO ADDITION OF APPROVED ADMIXTURES
- 4. CONCRETE EXPOSED TO WEATHER SHALL HAVE 6% AIR ENTRAINMENT. SUBMIT MIX DESIGNS FOR REVIEW.

ASTM C33. ALL CONCRETE FOR SLABS SHALL HAVE A MINIMUM OF 520 LBS. OF CEMENT PER CUBIC YARD.

- 5. ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM DESIGNATION A615
- 6. REINFORCING STEEL SHALL HAVE A MINIMUM CLEAR COVER AS FOLLOWS, UNLESS NOTED OTHERWISE ON DRAWINGS:

- 7. 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.
- 8. 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.
- 9. NO WELDING OF REINFORCING SHALL BE PERMITTED, UNLESS OTHERWISE INDICATED OR SUBMITTED AND APPROVED BY THE
- 10. SUBMIT ALL REINFORCING SHOP DRAWINGS FOR REVIEW PRIOR TO ANY FABRICATION.
- 11. PLACING OF CONCRETE SHALL NOT COMMENCE UNTIL THE PLACEMENT OF REINFORCING HAS BEEN APPROVED BY THE ENGINEER AND
- 12. 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
- 13. 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

- DETAILING MANUAL (ACI 315), AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301).

- B. 8" MAXIMUM AFTER THE ADDITION OF ADMIXTURES. WATER SHALL NOT BE ADDED TO THE CONCRETE AT THE JOBSITE.
- GRADE 60.

CONCRETE POURED AGAINST EARTH:

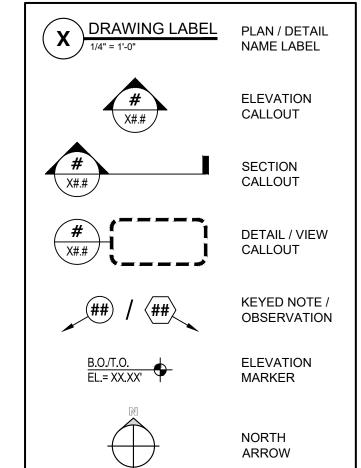
CONCRETE EXPOSED TO EARTH OR WEATHER: #5 OR SMALLER #6 OR LARGER

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

DRAWING SHEET INDEX

NO.	SHEET TITLE
S 1	PROJECT INFORMATION
S2	SITE PLAN
S 3	RETAINING WALL SECTIONS

COMMON SYMBOLS LEGEND



 $\mathbf{\Omega}$

DATE: 2024-02-01

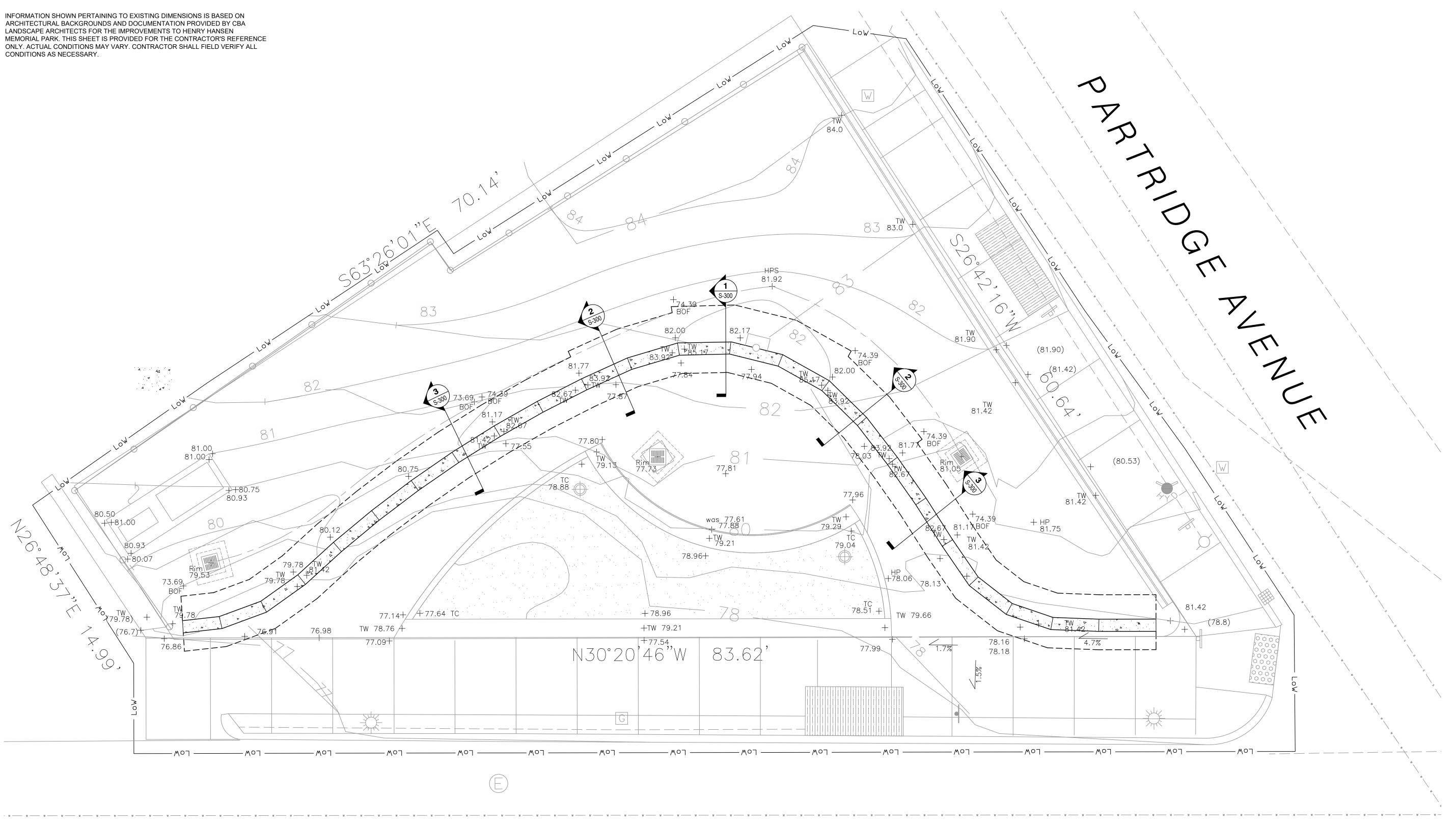
AS NOTED

SCALE:

DWN BY:

PROJ. #:

FILE:



MEDFORD STREET

SITE PLAN

1/4" = 1'-0"

SITE PLAN NOTES

1. SEE LANDSCAPE ARCH. FOR MORE INFORMATION ON GRADING AND DRAINAGE.

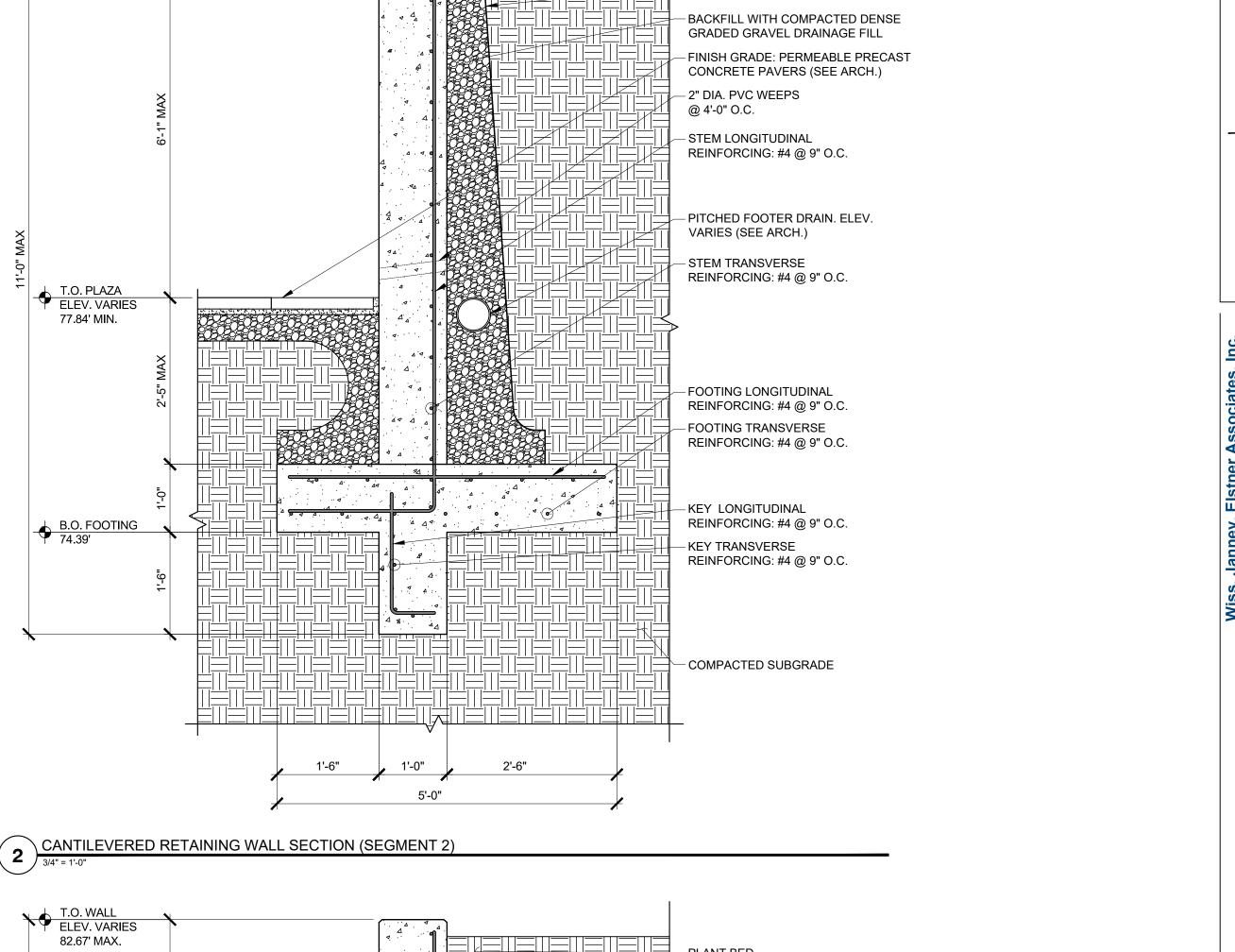
- GRADE LINE BETWEEN ELEVATION MARKERS MAY VARY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SITE CONDITIONS. NOTIFY ENGINEER OF RECORD IF CONFLICTS ARISE.
- 3. CONTRACTOR TO LOCATE ALL UTILITIES IN THE WORK AREA PRIOR TO COMMENCING WORK. NOTIFY ENGINEER RECORD IF CONFLICTS ARISE.

STREET

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

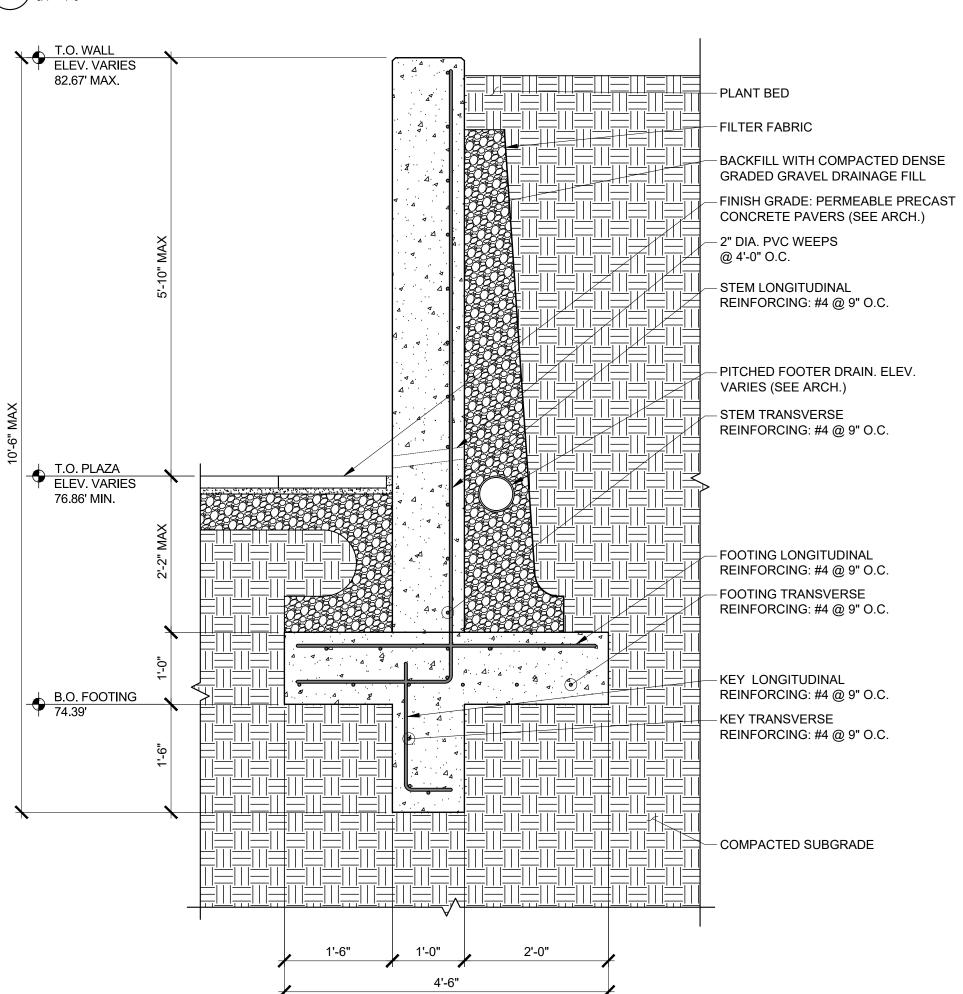
S2

PROJ. # :



- PLANT BED

-FILTER FABRIC

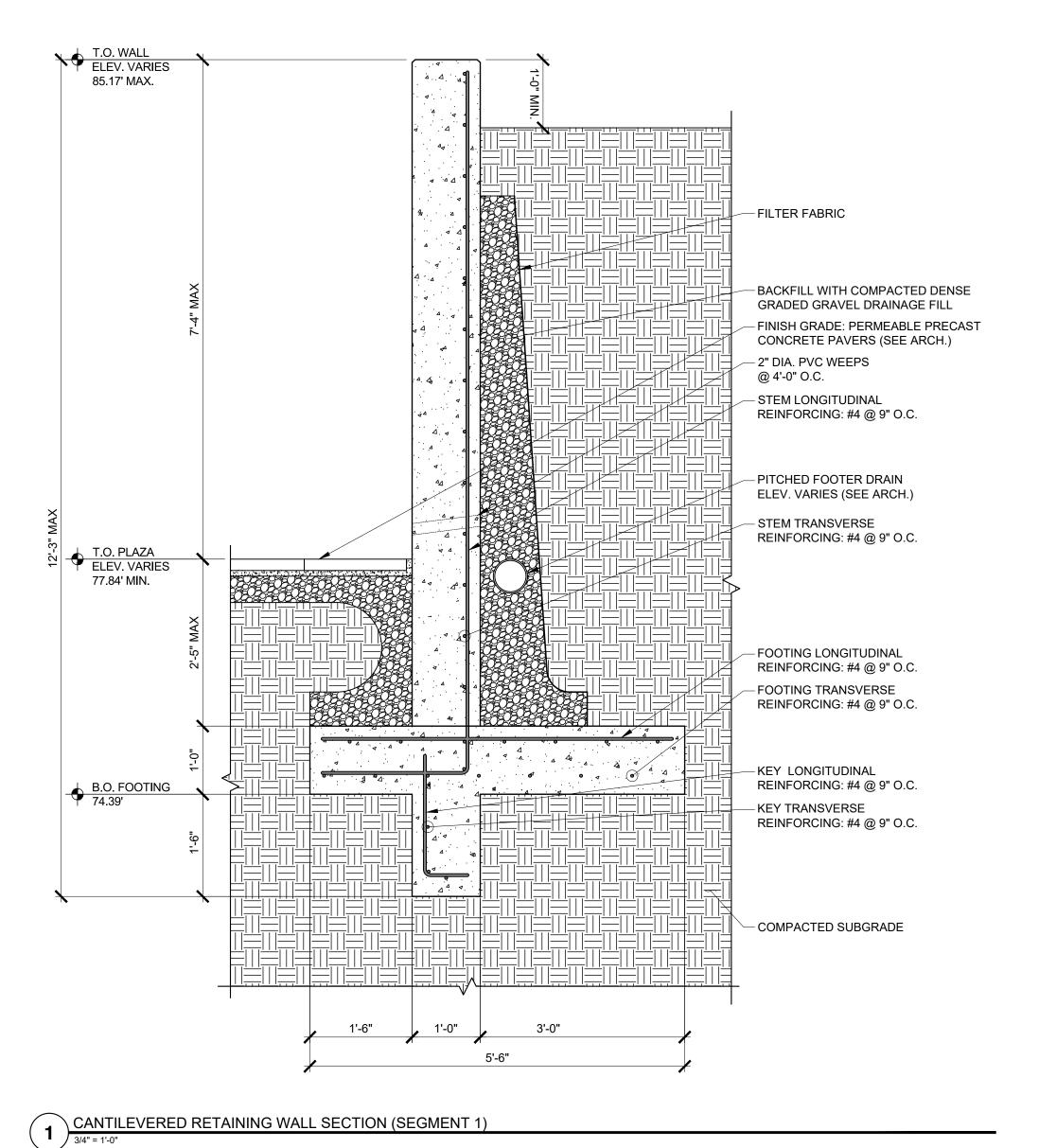


CANTILEVERED RETAINING WALL SECTION (SEGMENT 3)

3/4" = 1'-0"

T.O. WALL ELEV. VARIES 83.92' MAX.

T.O. PLAZA
ELEV. VARIES
77.84' MIN.



NOTES (ALL WALL SEGMENTS)

- 1. REFERENCE ARCH. GRADING PLAN FOR WALL ELEVATIONS. 2. WALL FINISH TO BE CAST USING CUSTOM GRAPHIC FORM LINERS. SEE LANDSCAPE ARCH DETAIL 1/L7.1 FOR PATTERN.