

Derby Street Park

289 Derby Street, Salem, MA

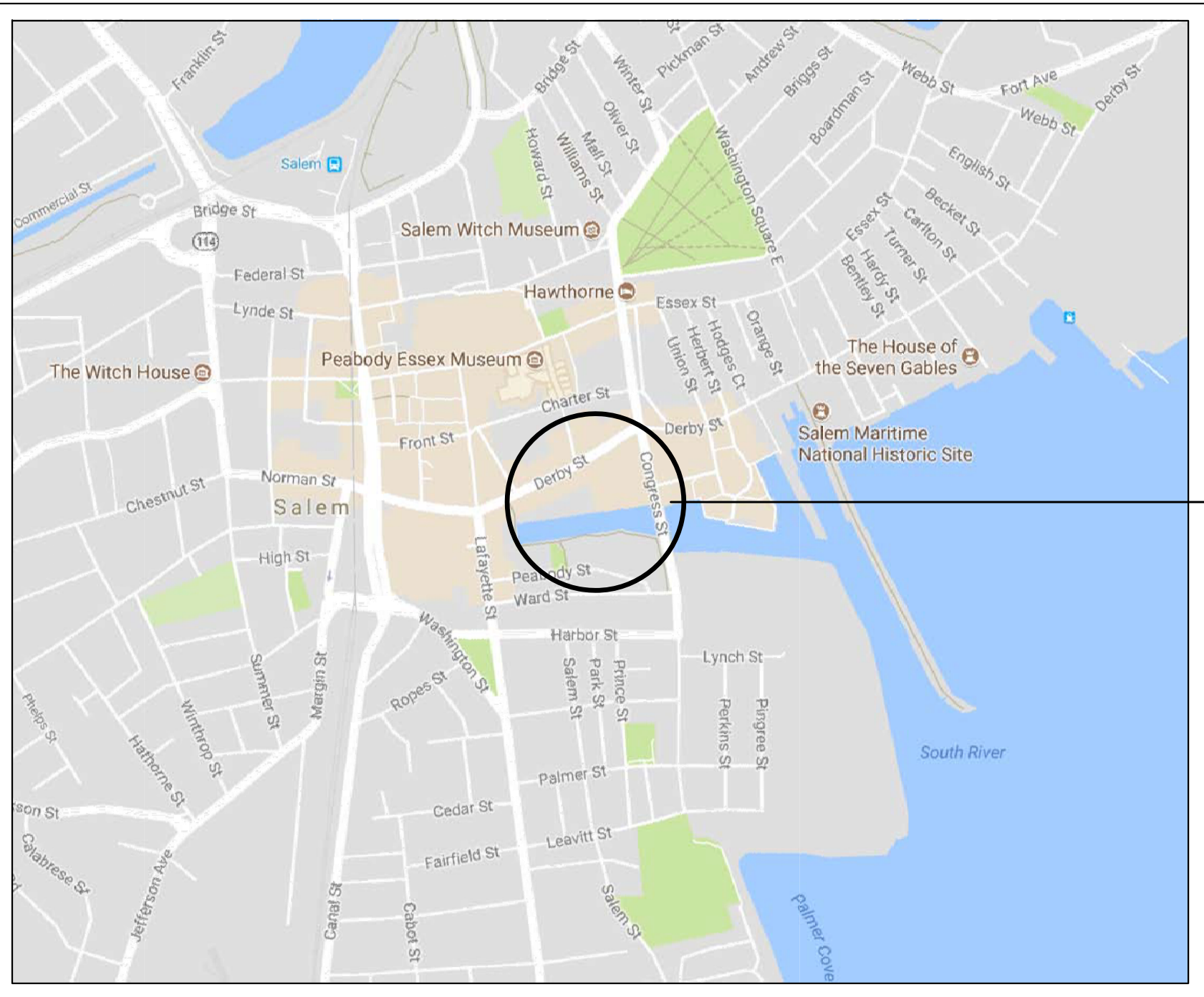
CBA | Landscape Architects LLC

24 THORNDIKE STREET | CAMBRIDGE MA 02141
phone 617.945.9760 | www.cbaland.com | cba@cbaland.com

landscape architecture
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Drawing List - Project No. 1709

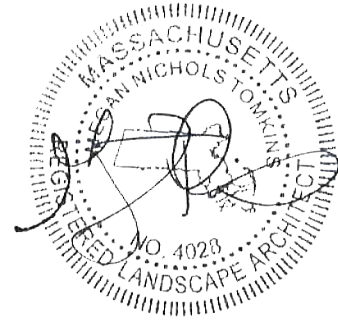
- L-0.1 Existing Conditions
- L-1.0 Demolition & Removals Plan
- L-2.0 Materials Plan
- L-3.0 Layout Plan - Walls
- L-3.1 Layout Plan - Paving
- L-3.2 Layout Plan - Site Features
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- C-3 Drainage & Water Utilities Detail II
- E-1.1 Electrical Plan
- E-1.2 Electrical Details



Location Plan

Project
Location

September 15, 2017
Construction Documents



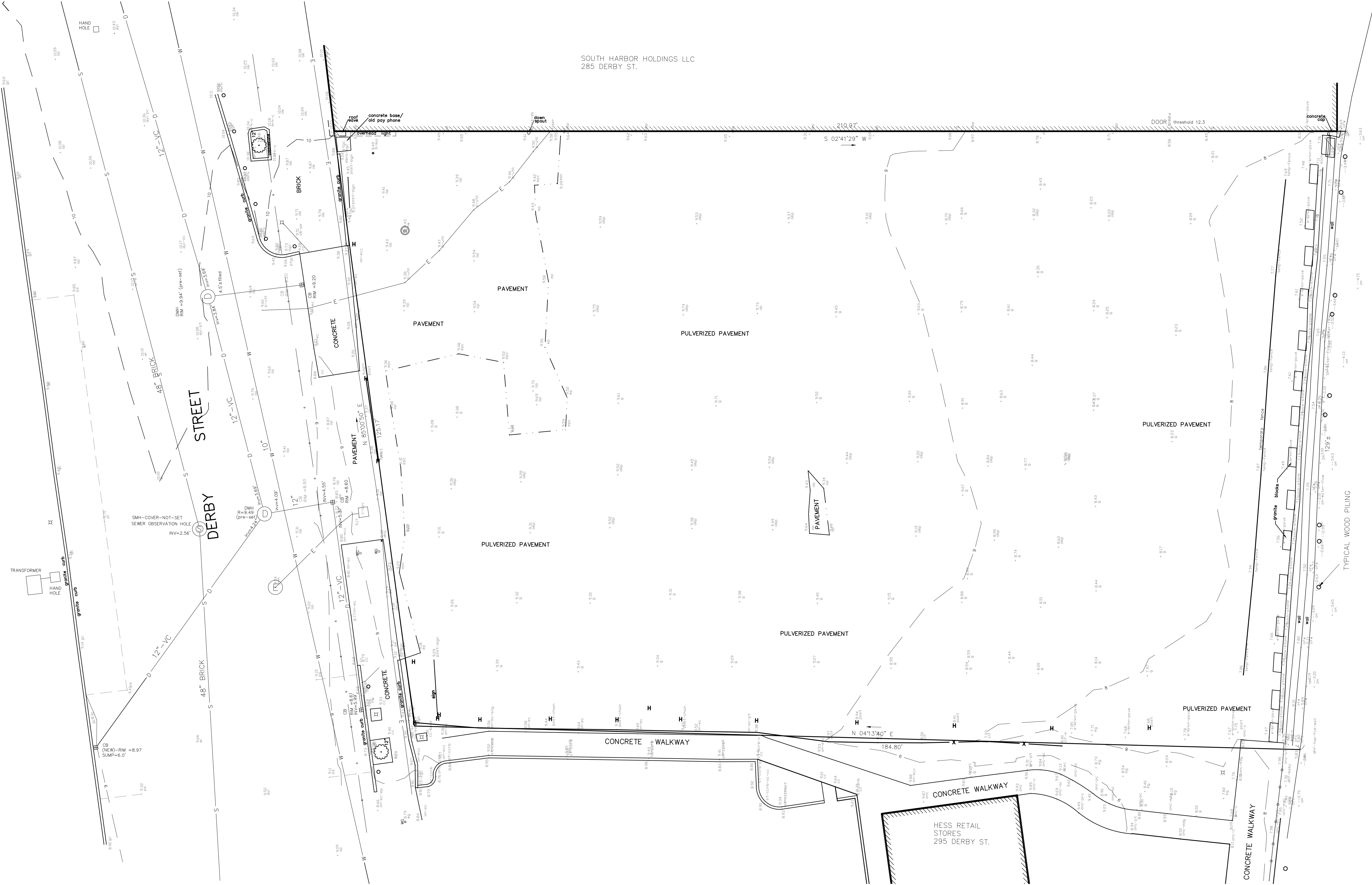
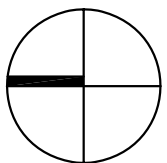
NOTES

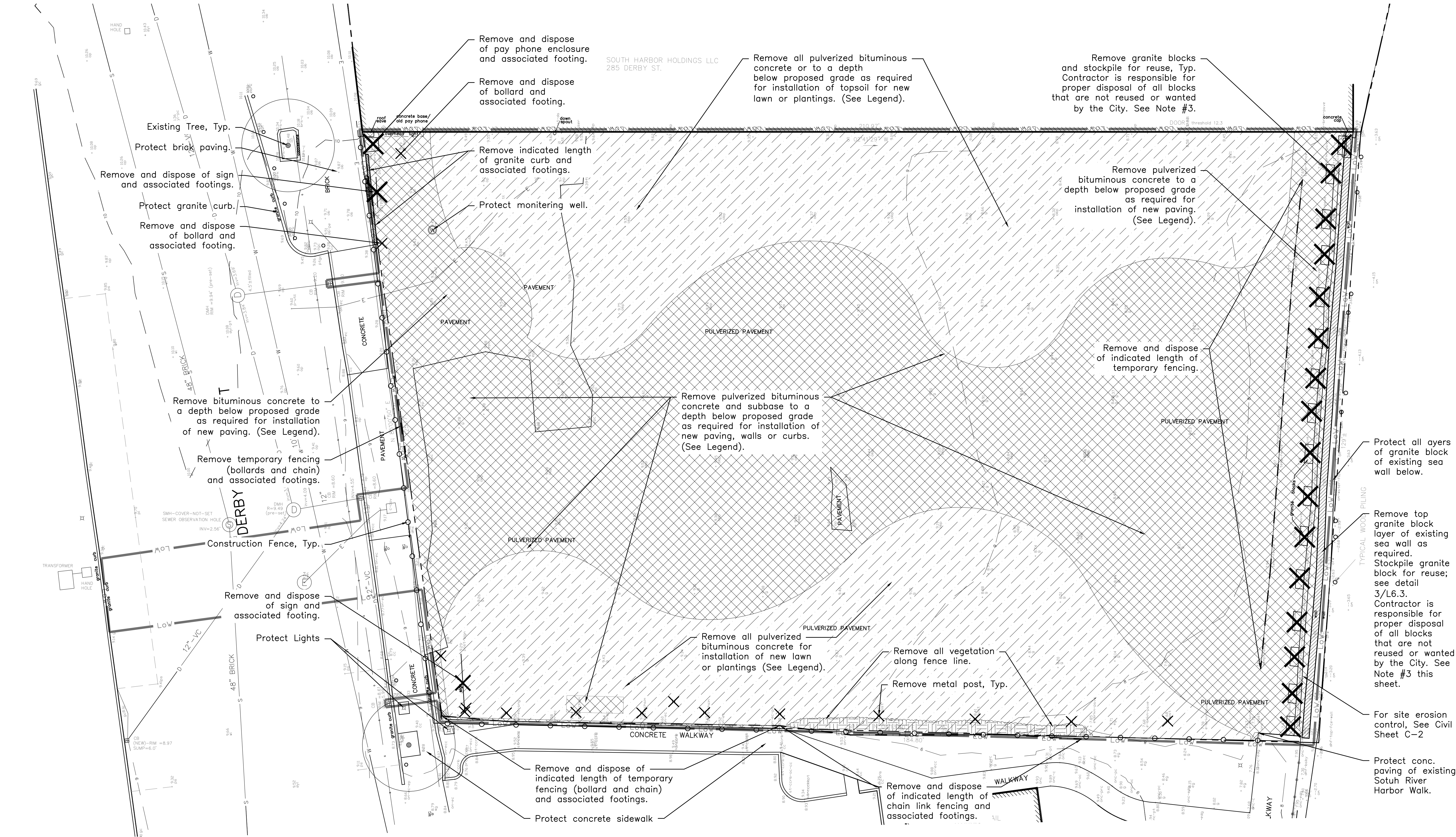
Survey by:
Griffin Engineering Group, LLC
495 Cabot Street, 2nd Floor
Beverly, MA 01915
Tel: 978-927-5111
Fax: 978-927-5103

July 03, 2017

LEGEND

- | | | | |
|-------|----------------------|---|----------------|
| — D — | DRAIN LINE | ⊙ | SEWER MANHOLE |
| — W — | WATER LINE | ⊙ | DRAIN MANHOLE |
| — S — | SEWER LINE | ⊙ | WATER GATE |
| — G — | GAS LINE | ⊙ | GAS GATE |
| — E — | UNDERGROUND ELECTRIC | ⊙ | CATCH BASIN |
| — x — | CHAIN LINK FENCE | ⊙ | DECIDUOUS TREE |
| — — | POST & CHAIN FENCE | ⊙ | FENCE POST |





DEMOLITION NOTES

- The Landscape Contractor shall verify location of and protect all utilities, drainage, and sub-drainage structures, prior to starting construction. Call DIG-SAFE. Cover existing catch basins with filter fabric.
- See Civil Drawings for location of and detail for erosion control.
- Landscape Contractor shall review items to be removed with Landscape Architect prior to commencement of work.
- The City of Salem shall retain the right of first refusal for any items to be removed from the site. If the City elects to retain materials or furnishings from the site, the Contractor shall deliver the selected items to the DPW's yard at no additional cost to the Owner. No other items are to be stockpiled at the DPW yard. All materials slated for disposal shall be disposed of off-site properly and in accordance with all local, state, and federal regulations.
- Protect from damage all trees, walls, curbs, paving, and any other site feature that is not designated for removal.
- All trees marked for protection are to be pruned by a licensed arborist. Landscape Architect to be present at the site during tree pruning.
- Any damaged item not scheduled for removal shall be restored by the Contractor to the Owner's satisfaction at no extra charge.
- For more information on pulverization of existing bituminous concrete and reuse as subbase, see Specifications Section 31 00 00 Earthwork.

DEMOLITION LEGEND

----- Property Line

--- Limit of Work

--- Construction Fence; see Specifications for silt fence requirements

--- Length of existing fence and associated footings to be removed

--- Top of Existing Sea Wall

✕ ✕ Remove and dispose of indicated object.

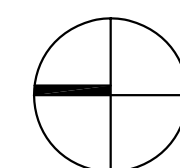
Remove (pulverized) bituminous concrete, subbase, and subsoil to a depth below proposed grade as required for installation of new paving, curbs, or walls. See Materials Plan, L-2.0 and Layout Plan L3.0. At the Contractor's discretion, reclaimed and pulverized bituminous concrete and base course may be used in lieu of processed gravel provided that material can meet Contract Specifications. See Specification Section 31 00 00 Earthwork for more information.

Remove all pulverized bituminous concrete, subbase, and subsoil for installation of topsoil for new lawn or plantings. See Materials Plan, L-2.0 and Layout Plan L3.0. At the Contractor's discretion, reclaimed and pulverized bituminous concrete and base course may be used in lieu of processed gravel provided that material can meet Contract Specifications. See Specification Section 31 00 00 Earthwork for more information.

Remove vegetation.

Existing Tree

0 05 10 20 30 40'



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DERBY STREET PARK

289 Derby Street, Salem, MA

DEMOLITION AND REMOVALS PLAN

DATE: 09-15-2017

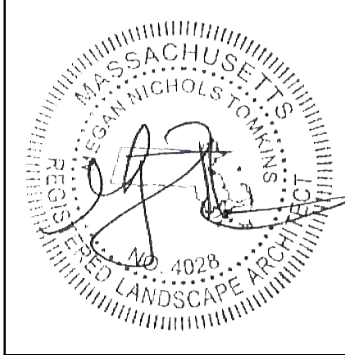
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FILE: DSP-EC & Demo-CD.dwg

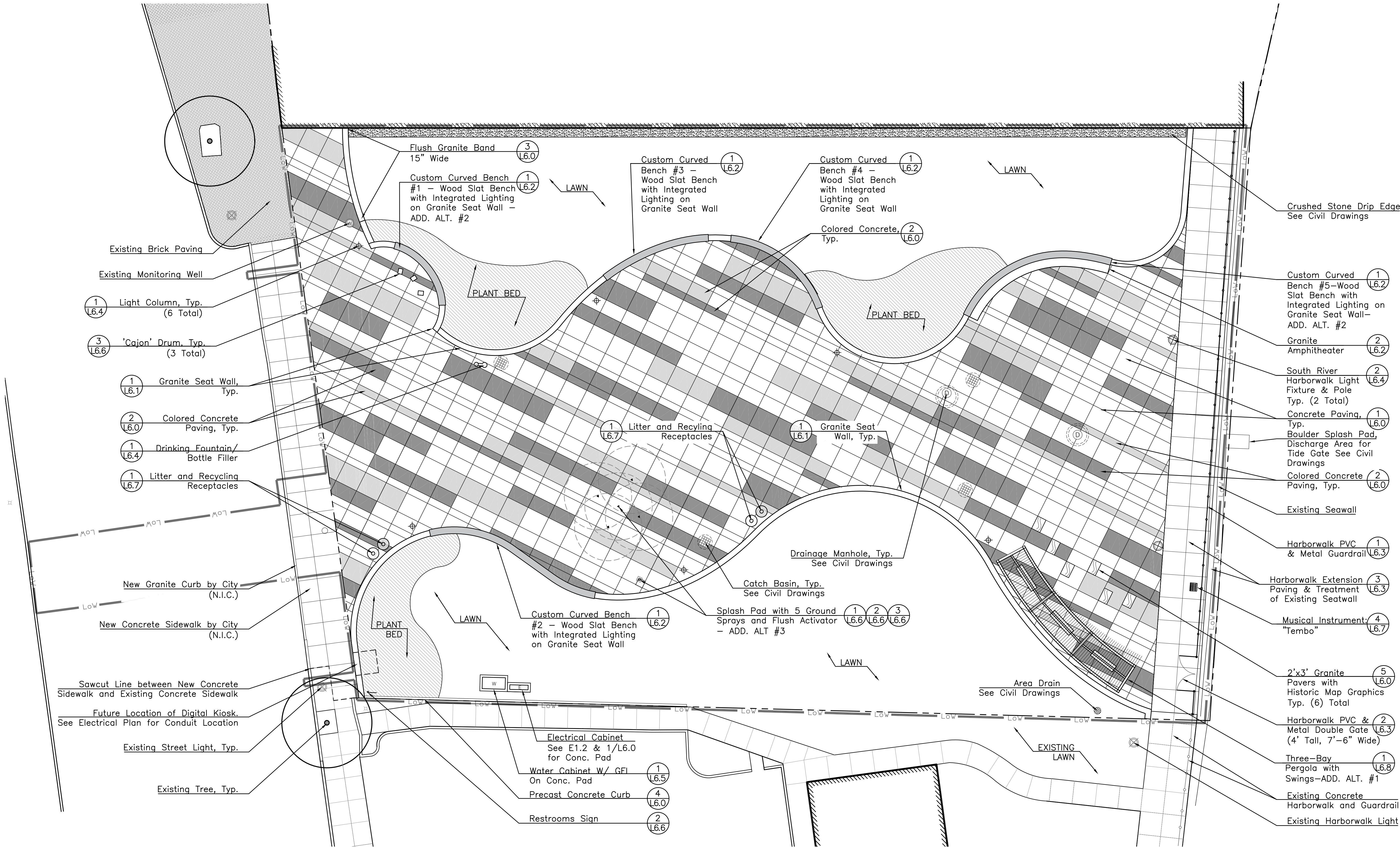
DWN BY: JHC, MNT

CKD BY: CCB

PROJ. #: 1709



L1.0



MATERIALS NOTES

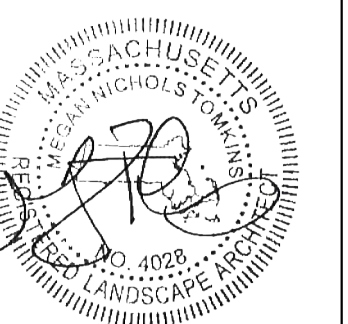
- The Landscape Contractor shall verify location of and protect all utilities, drainage, and sub-drainage structures.
- Landscape Contractor shall verify all dimensions and elevations on the ground and report any discrepancies to the Landscape Architect.
- Landscape Contractor shall stake layout of plan on the site for approval of Landscape Architect before commencement of construction and before ordering granite. All curves shall be staked with markers at a minimum of one every two feet.
- Layout shall be performed in the field by a registered surveyor.

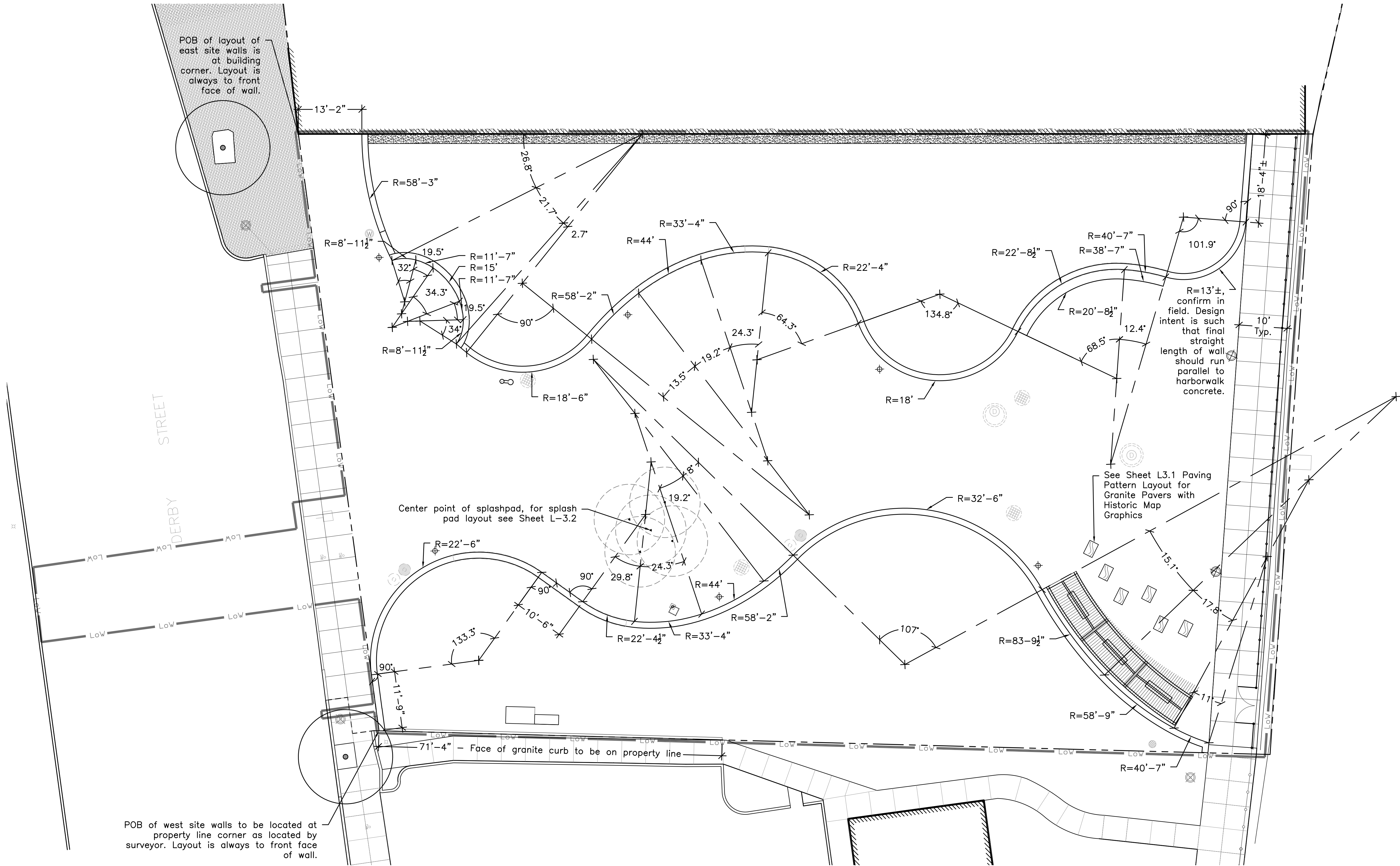
MATERIALS LEGEND

-----	Property Line		Concrete (No Color Added)		Proposed Pedestrian Light Column
—○—	Proposed Guardrail		Colored Concrete #1		Proposed Harborwalk Light
—LOW—	Limit of Work		Colored Concrete #2		Existing Light
	Proposed Perennial Bed				Existing Tree

ADD. ALTERNATES

- Add. Alternate #1 – Three Bay Pergola with Swings.
Add. Alternate #2 – Custom Curved Wood Slat Benches with Integrated Lighting for Bench #1 & Bench #5. (Granite Seat Wall is part of Base Bid).
Add. Alternate #3 – 5 Ground-Spray Splash Pad with Flush Mounted Activator.



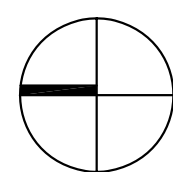


LAYOUT NOTES

1. The Landscape Contractor shall verify location of and protect all utilities, drainage, and sub-drainage structures. Call DIG-SAFE.
2. Landscape Contractor shall verify all dimensions and elevations on the ground prior to commencement of construction, and shall immediately report any discrepancies to the Landscape Architect for clarification and resolution prior to commencement.
3. The Landscape Contractor shall verify location of and protect all utilities, drainage, and sub-drainage structures.
4. Landscape Contractor shall stake layout of plan on the site for approval of Landscape Architect before commencement of construction and before ordering granite.
5. All layout shall be by the dimensions noted; do not scale directly from the plan. If clarification regarding a dimension or layout order is required, the Contractor shall contact the Landscape Architect. Layout to be done by a Massachusetts Registered Surveyor. CBA will make CAD drawings available for layout upon request.
6. Dimensions marked with "±" and/or "(Confirm)" 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.
7. See Sheet L3.1 for Layout of Paving. See Sheet L3.2 for Layout of Benches, Lights, Furniture, and other Site Features.

LAYOUT LEGEND

---	Property Line	⊕	Proposed Pedestrian Light Column
—○—	Proposed Guardrail	⊗	Proposed Harborwalk Light
—LoW—	Limit of Work	⊗	Existing Light
○	Existing Tree		



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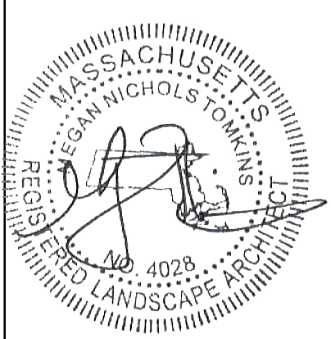
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DERBY STREET PARK

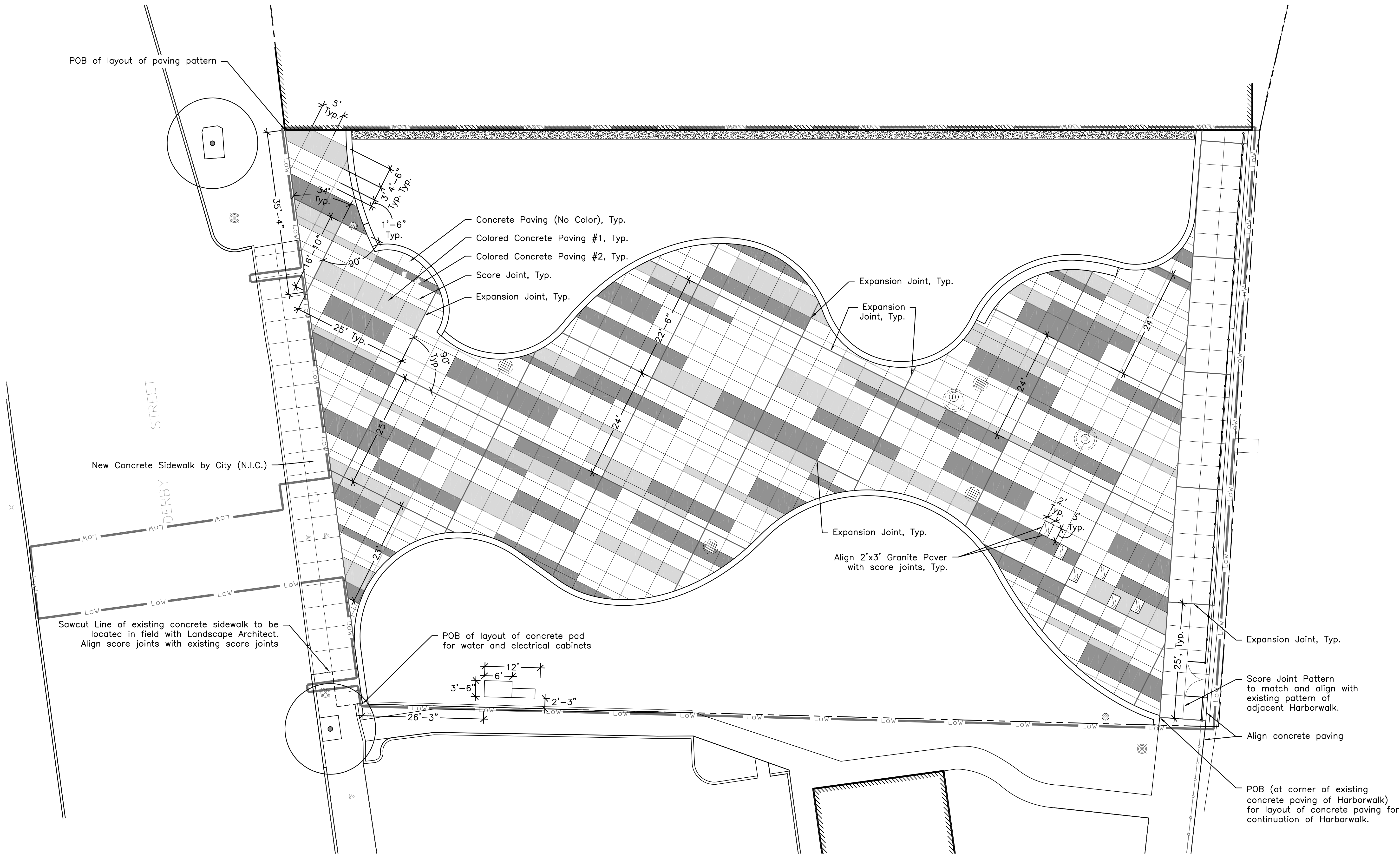
289 Derby Street, Salem, MA

LAYOUT PLAN - SITE WALLS

DATE: 09-15-2017
SCALE: 1" = 10' - 0"
FILE: DSP-Layout-CD.dwg
DWN BY: JHC, MNT
CKD BY: CCB
PROJ. #: 1709



L3.0

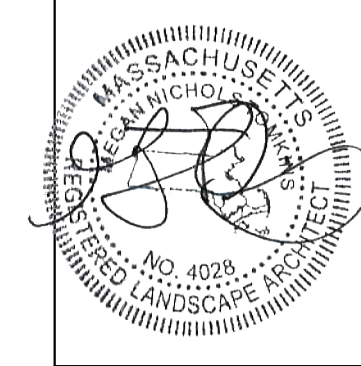
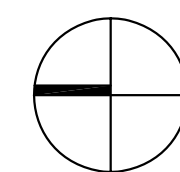
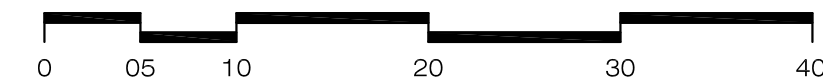


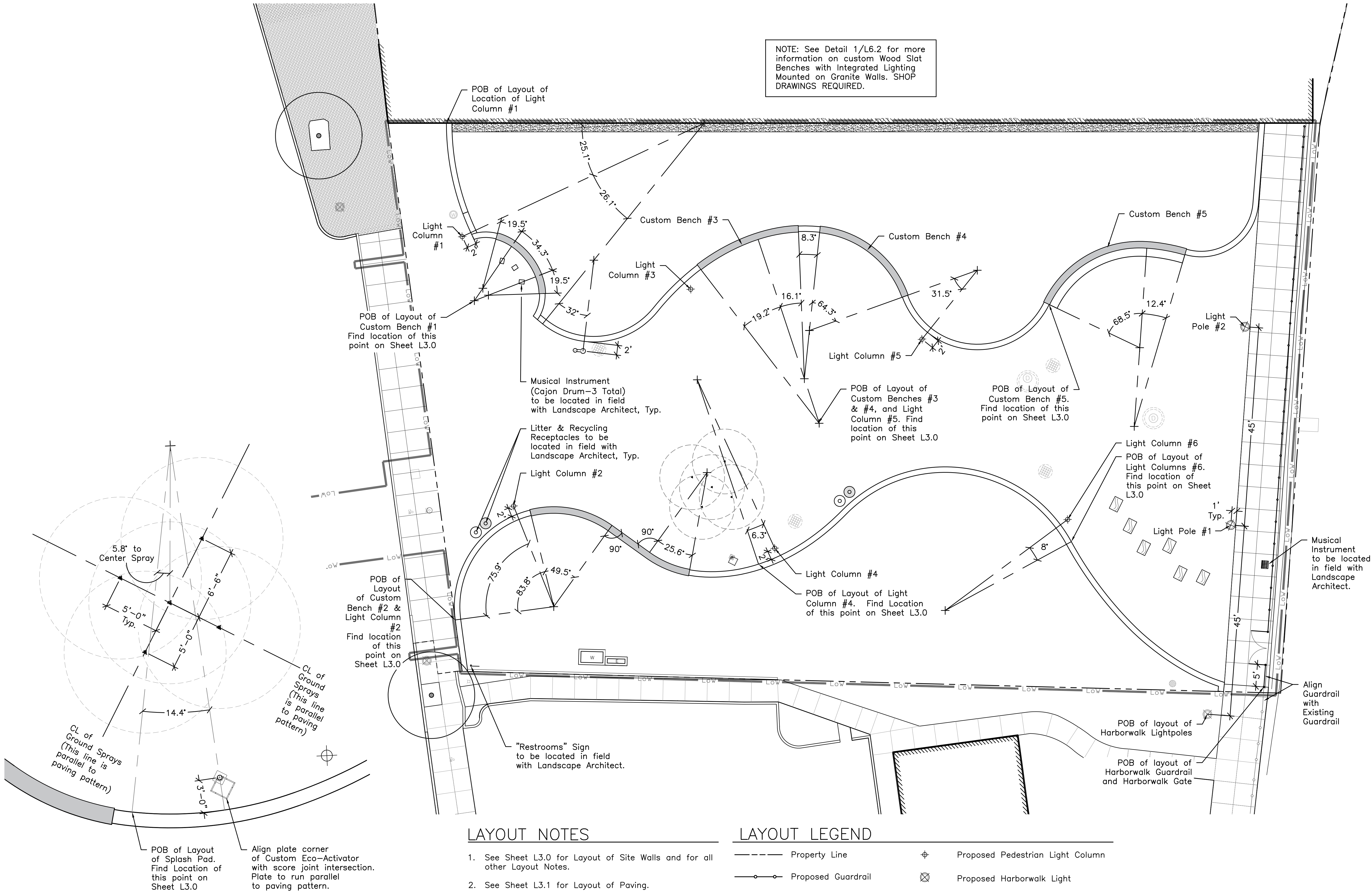
LAYOUT NOTES

- Expansion joints to be located as shown on plan, and wherever new paving pattern abuts structures, curbs, walls, or other paving areas.
- Score joints running perpendicular to the long axis of the park (from Derby Street to the Canal) to be located every 5'. Expansion joints running perpendicular to the long axis of the park to be located every 25'.
- Score joints running parallel to the long axis of park to be located every 1.5', 3', or 4.5'. See plan above for locations.
- See Sheet L3.0 for Layout of Site Walls. See Sheet L3.3 for Layout of Benches, Lights, Furniture, and other Site Features.

LAYOUT LEGEND

-----	Property Line		Concrete Paving
—o—o—	Proposed Guardrail		Colored Concrete Paving #1 French Grey C-14
—LOW—	Limit of Work		Colored Concrete Paving #2 Charcoal C-24
	Existing Tree	-----	Expansion Joint (every 25' maximum)





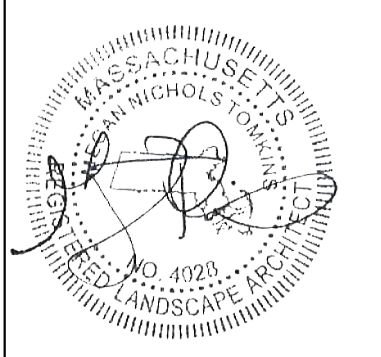
SPLASH PAD LAYOUT ENLARGEMENT
Scale: 1/4" = 1'-0"

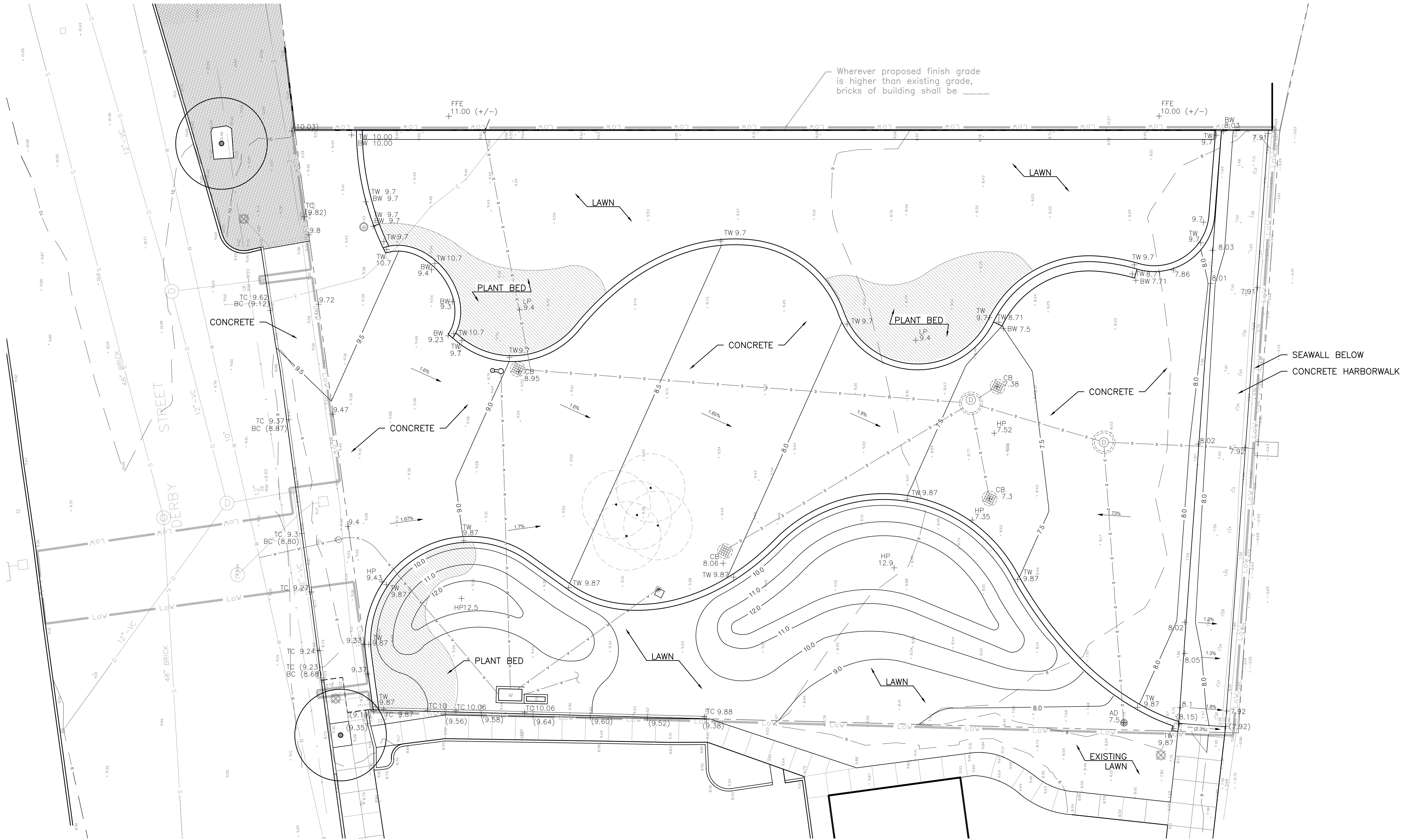
LAYOUT NOTES

1. See Sheet L3.0 for Layout of Site Walls and for all other Layout Notes.
2. See Sheet L3.1 for Layout of Paving.

LAYOUT LEGEND

---	Property Line	⊕	Proposed Pedestrian Light Column
—○—	Proposed Guardrail	⊗	Proposed Harborwalk Light
—LOW—	Limit of Work	⊗	Existing Light
○	Existing Tree		



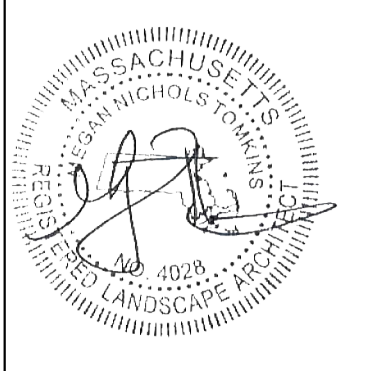


GRADING NOTES

1. The Landscape Contractor shall verify location(s) of and protect all utilities, drainage, and sub-drainage structures. Call DIG SAFE (888.344.7233).
2. Grade stakes to be set for approval by Landscape Architect prior to installation of gravel bases and prior to installation of all paving, edges, walls, and furniture.
3. All transitions to existing grades to be smooth and gradual. 1.8% max. cross-slopes on all paths.
4. Verify existing grades in field. Notify Landscape Architect of any discrepancies or conflicts.
5. Contractor shall notify Landscape Architect if any proposed conditions exceed 4.8% slope and 1.8% cross slope once subbase materials are installed and prior to installing finish material.
6. Any area outside the Limit of Work Line which is disturbed shall be restored to previous conditions at no cost to the owner.
7. See Sheet Civil Drawings for Drainage and Water Utility Plan and Details.

GRADING LEGEND

---	Property Line	+9.43	Proposed Spot Grade	- - - - -	Proposed Drainage Line
---	Limit of Work	+(9.23)	Existing Spot Grade	- v - v -	Proposed Water Line
- o - o -	Proposed Guardrail	CB	Catch Basin	- e - e -	Proposed Electrical Line
- 9.0 -	Proposed Contour	AD	Area Drain		
- 9 - -	Existing Contour	BW	Bottom of Wall		
o	Existing Tree	TW	Top of Wall		
		BC	Bottom of Curb		
		TC	Top of Curb		

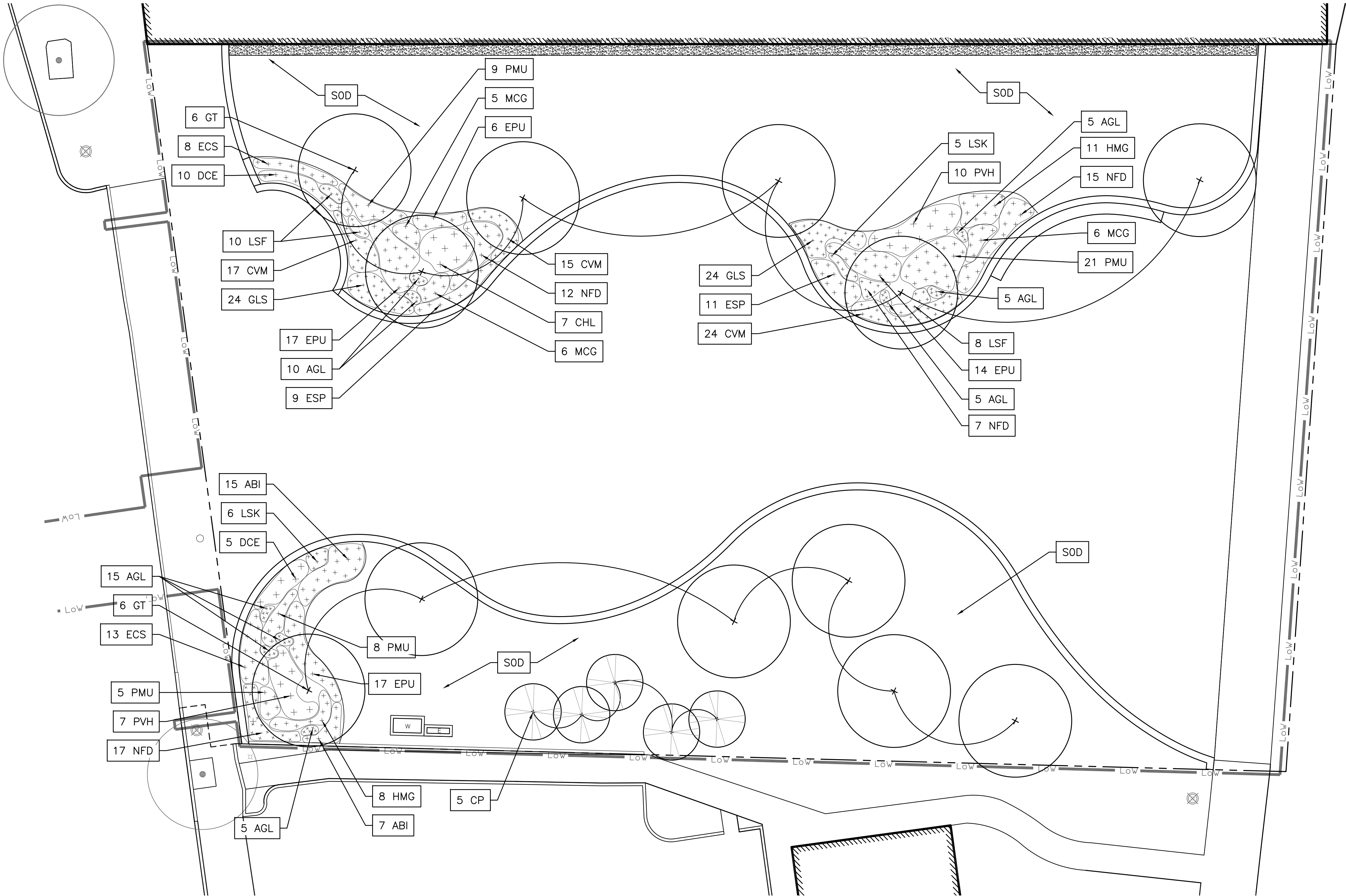


PLANTING NOTES

1. The Landscape 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 these drawings.
3. All plant materials to conform to guidelines established by the American Standard for Nursery Stock published by the American Assn. of Nurserymen, current edition.
4. All plant materials to be selected by the Landscape Architect with the Contractor at the nursery.
5. All plants to be located on the site for approval of the Landscape Architect prior to planting.
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 and lawns for one year following final acceptance. See Specifications for conditions of final acceptance.
8. All perennial planting beds to have a minimum of 18" of topsoil. All lawn areas to have a minimum of 12" of topsoil.
9. All plant beds to receive 3" shredded bark mulch; supply sample for approval of Landscape Architect.
10. Sod for lawn to be "Black Beauty" Tall Fescue Sod by Sodco, Inc., 264 Exeter Road, Slocum RI 02877 (ph. 800-341-6900). Sod to be an approximate mix of 70% Tall Fescue, 20% Bluegrass, and 10% Ryegrass.
11. If Allium 'Globemaster' is to be planted as a bulb instead of in a #1 pot, contractor to coordinate planting time to appropriate season as recommended by Landscape Architect.
12. 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 Twelve (12) zones and to be located within the Water Cabinet.
3. 'Pop-up' spray heads for use in lawn areas and trees in lawn.
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's Representative.
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.
9. Location of all irrigation lines must be reviewed with Landscape Architect. Lines must be kept as far as possible from existing trees, and as close as possible to curbs.

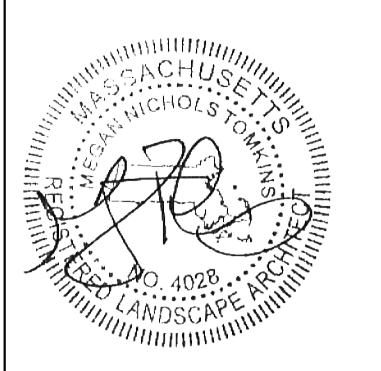


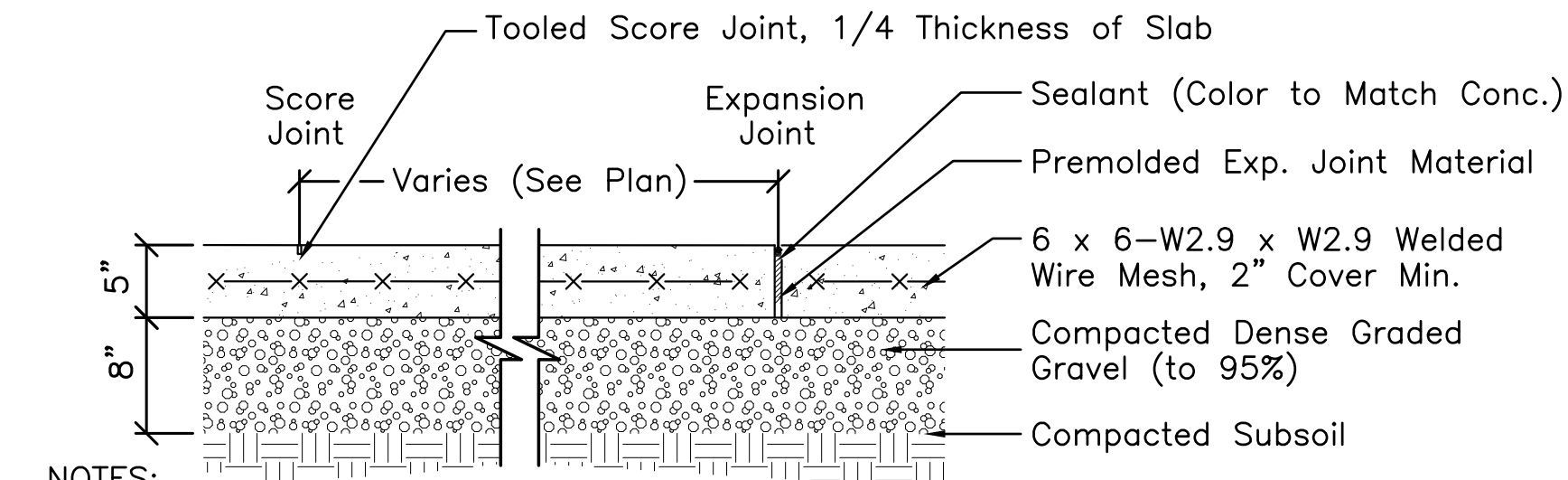
PLANT LIST

TREES					
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
GT	12	Gleditsia triacanthos var. inermis	Thornless Honeylocust	3.5"-4" Cal.	B&B
CP	5	Chamaecyparis obtusa 'Gracilis'	Japanese Falsecypress	10'-12' HT	B&B
PERENNIALS					
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
ABI	22	Amsonia 'Blue Ice'	Blue Ice Blue Star Flower	#1 Pot	24" Spacing, 12-15" H, May-Jun
AGL	45	Allium 'Globemaster'	Globemaster Ornamental Onion	#1 Pot/Bulb	12-18" Spacing, 32" H, May-Jun
CVM	56	Coreopsis verticillata 'Moonbeam'	Threadleaf Coreopsis	#1 Pot	24" Spacing, 18-24" H, Jun-Aug
ECS	21	Echinacea 'Cheyenne Spirit'	Cheyenne Spirit Coneflower	#1 Pot	12-24" Spacing, 12-30" H, Jun-Aug
EPU	54	Echinacea purpurea	Purple Coneflower	#1 Pot	24" Spacing, 24-60" H, Jun-Aug
GLS	48	Gaura lindheimeri 'Sparkle White'	Butterfly Gaura	#1 Pot	12-15" Spacing, 12-24" H, May-Sept
HMG	19	Helenium 'Mardi Gras'	Helen's Flower	#1 Pot	18" Spacing, 24-36" H, Aug-Oct
LSF	18	Liatris spicata 'Floristan White'	Floristan White Spike Gayfeather	#1 Pot	18" Spacing, 24-36" H, July-Aug
LSK	11	Liatris spicata 'Kobold Original'	Kobold Original Spike Gayfeather	#1 Pot	12" Spacing, 14" H, July-Aug
MCG	17	Monarda fistulosa 'Claire Grace'	'Claire Grace' Wild Bergamot	#1 Pot	24" Spacing, 36" H, July-Aug
NFD	51	Nepeta fassennii 'Dropmore'	'Dropmore' Catmint	#1 Pot	18" Spacing, 24" H, June-Aug
PMU	43	Pycnanthemum muticum	Clustered Mountainmint	#1 Pot	12-24" Spacing, 12-36" H, July-Sept
GRASSES					
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
CHL	7	Chasmanthium latifolia	Northern Sea Oats	#1 Pot	36" Spacing, 36" H, Autumn
DCE	15	Deschampsia cespitosa	Tussock Grass	#1 Pot	36" Spacing, 18-36" H, Summer
ESP	20	Eragrostis spectabilis	Purple Lovegrass	#1 Pot	12-24" Spacing, 12-24" H, July-Aug
PVH	17	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	#1 Pot	36" Spacing, 48-60" H, Aug-Oct

PLANTING LEGEND

- Property Line
- Existing Tree
- Proposed Dediduous Tree
- Proposed Coniferous Tree
- Proposed Perennials



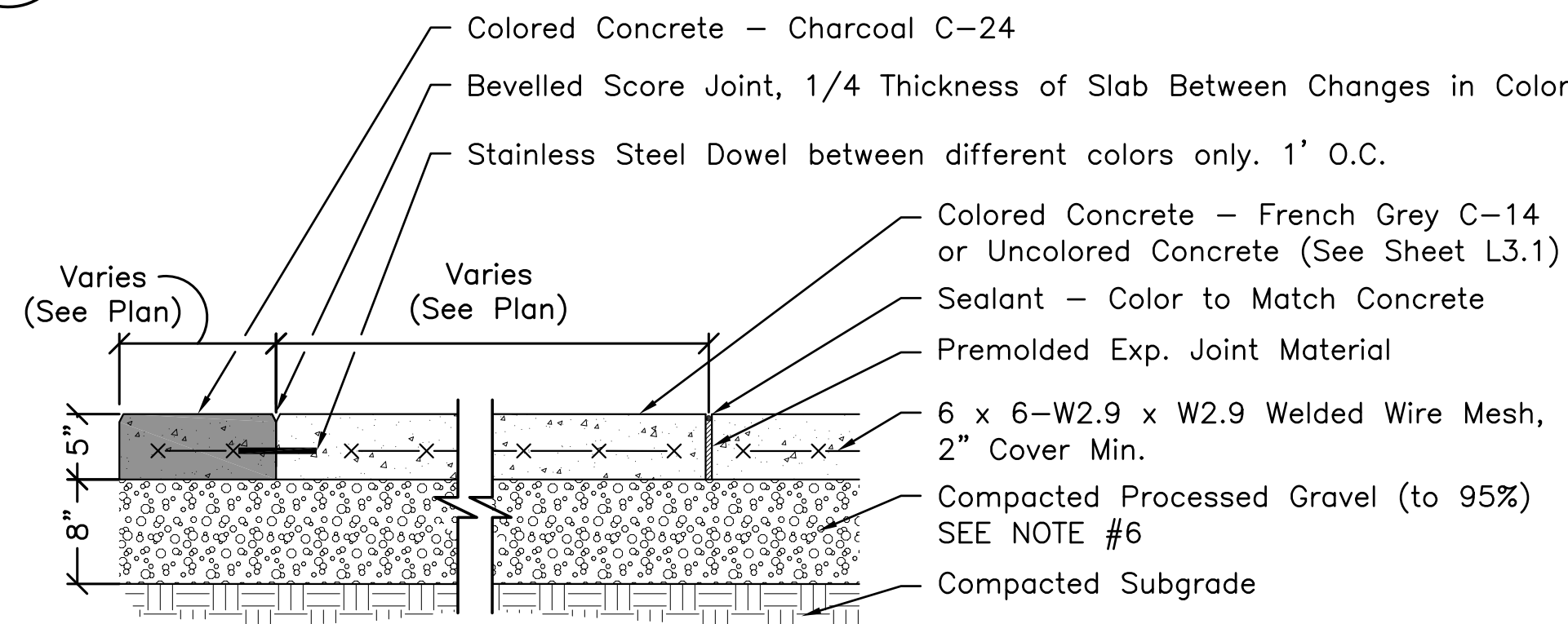


NOTES:

1. Score joints every 6' (maximum), both directions (see Sheet L3.1 for paving pattern and expansion joint layout). Expansion joints every 25' (maximum). Locate expansion joints where paving abuts structures, curbs, walls, or existing paving.
2. Concrete to be 4000 PSI (28 days), light broom finish.
3. All paving shall slope to drain (1.8% maximum cross slope). Coordinate with existing grades.
6. At the Contractor's discretion, reclaimed and pulverized bituminous concrete and base course may be used in lieu of processed gravel provided that material can meet Contract Specifications. See Specification Section 31 00 00 Earthwork for more information.

1) CONCRETE PAVING

Scale: 1"=1'-0"

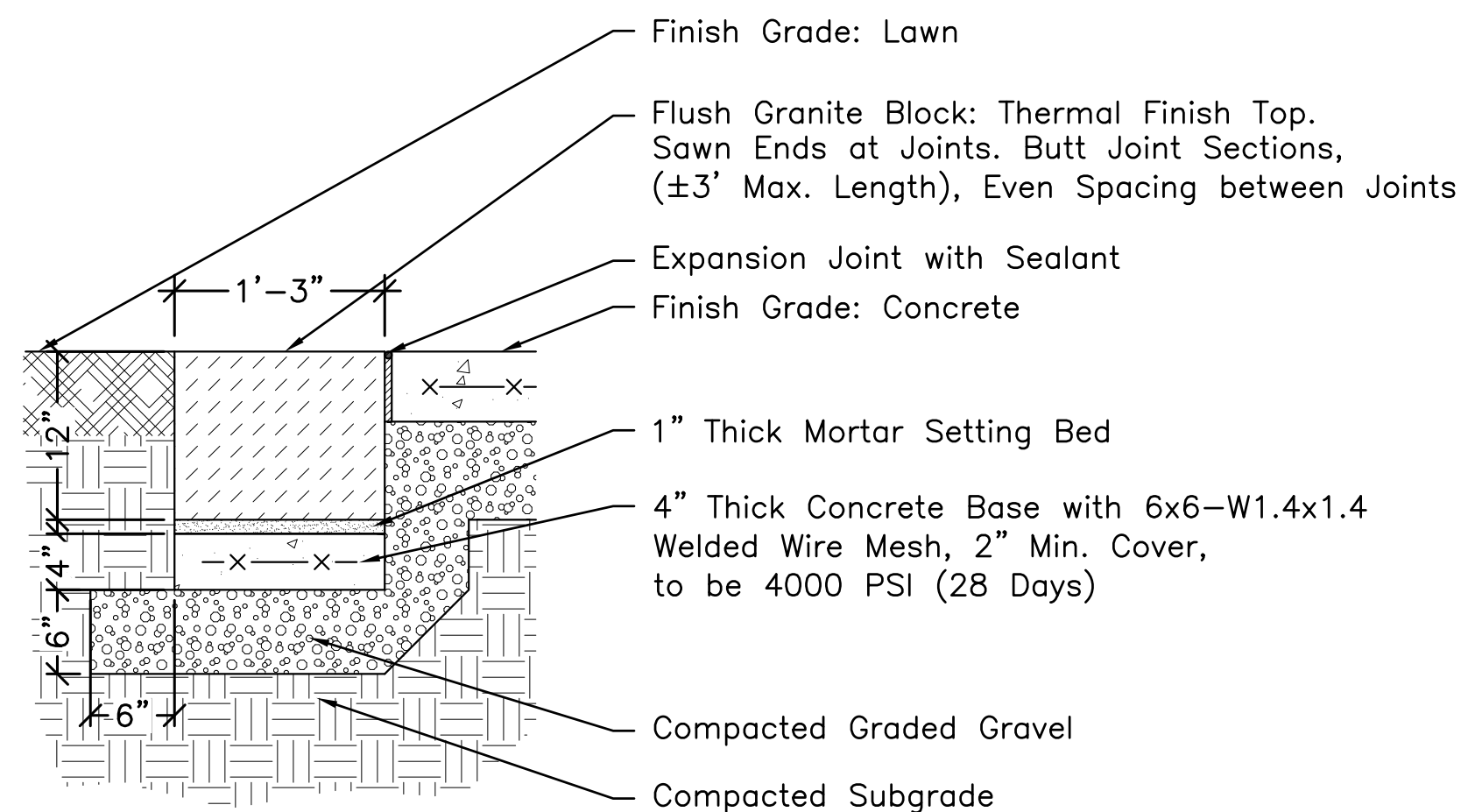


NOTES:

1. SEE DRAWING L3.1 FOR LAYOUT OF PAVING AND EXPANSION JOINT PATTERN.
2. Expansion joints every 25' (maximum). Locate expansion joints where paving abuts structures, curbs, walls, or existing paving.
3. Colored Concrete to be made with CHROMIX Admixtures and cured with LITHOCHROME Colorwax by SCOFIELD. (PH: 1800-800-9900). Apply per manufacturer's directions. Colors to be Charcoal C-24 and French Grey C-14. Provide 4'x4' sample of each color for approval by Landscape Architect. All concrete to be sealed with a product that is manufactured by the same company that makes the color admixture.
4. Concrete to be 4000 PSI (28 days), light broom finish.
5. All paving shall slope to drain (1.8% maximum cross slope).
6. At the Contractor's discretion, reclaimed and pulverized bituminous concrete and base course may be used in lieu of processed gravel provided that material can meet Contract Specifications. See Specification Section 31 00 00 Earthwork for more information.

2) COLORED CONCRETE PAVING

Scale: 1"=1'-0"

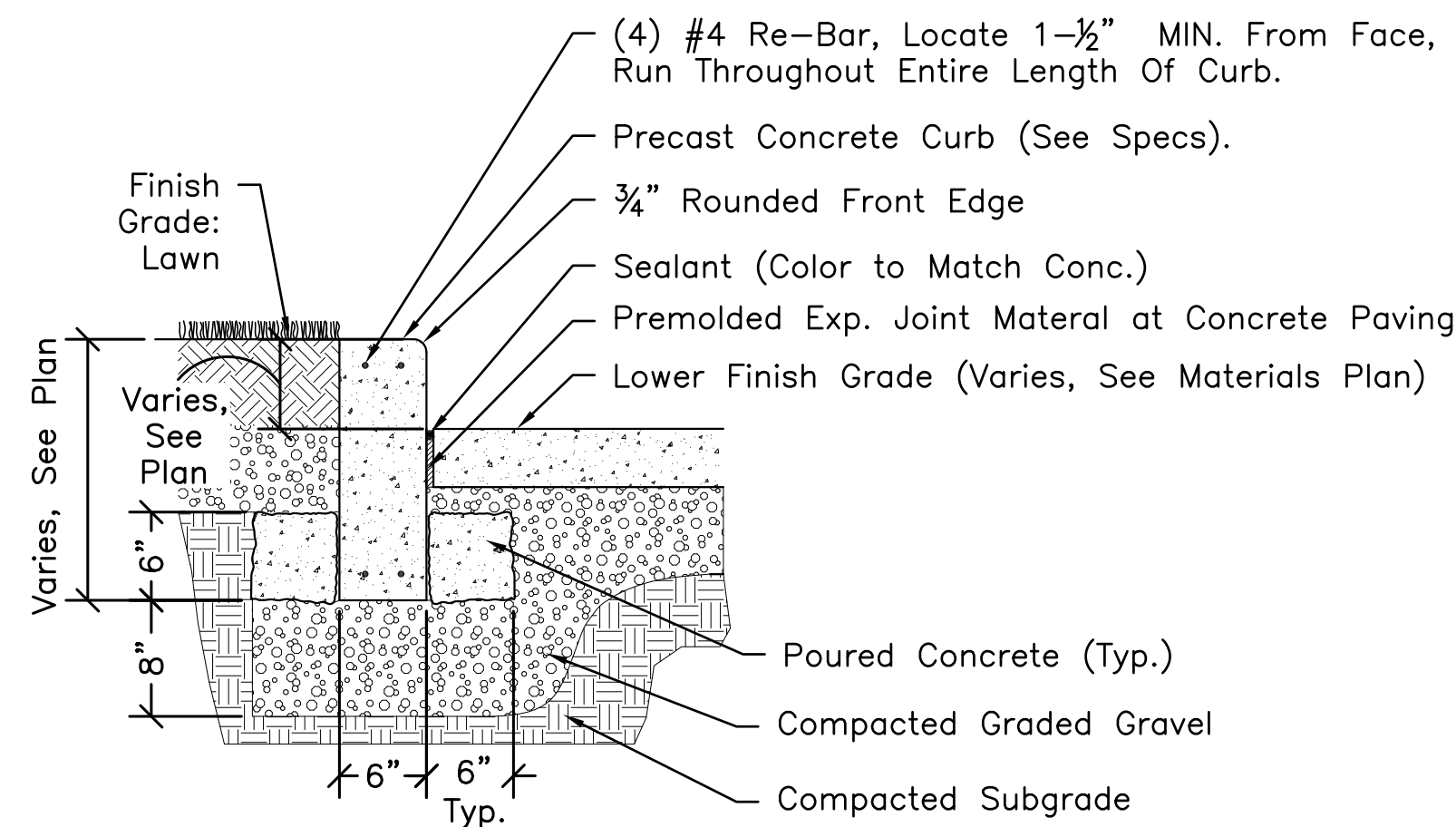


NOTES:

1. Granite to be "Callisto Silver Grey", "Chelmsford Grey" or Approved Equal. Provide sample of granite for approval.
2. SHOP DRAWINGS REQUIRED showing block lengths and top treatments to confirm layout. Submit drawings for approval by Landscape Architect before ordering material.

7 FLUSH GRANITE BAND - 15" WIDE

Scale: 1"=1'-0"

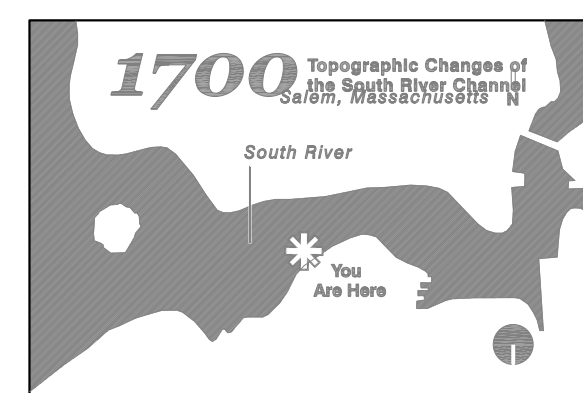
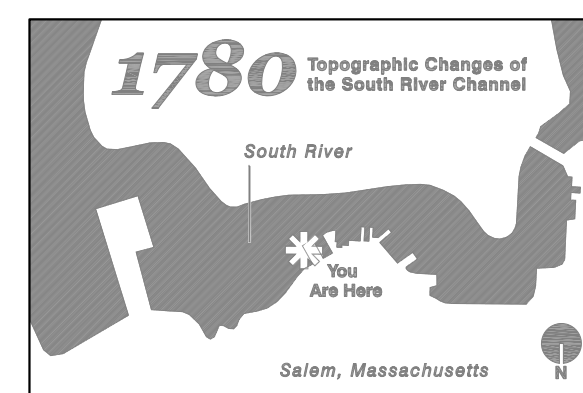
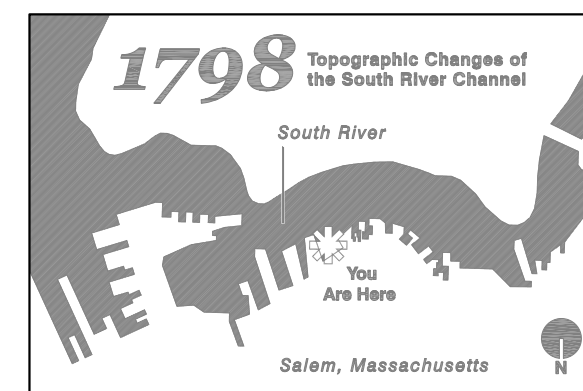
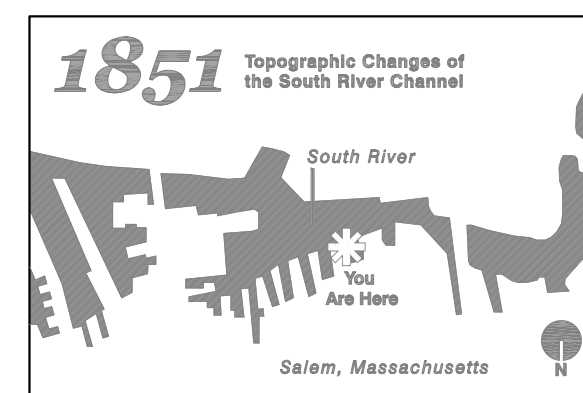
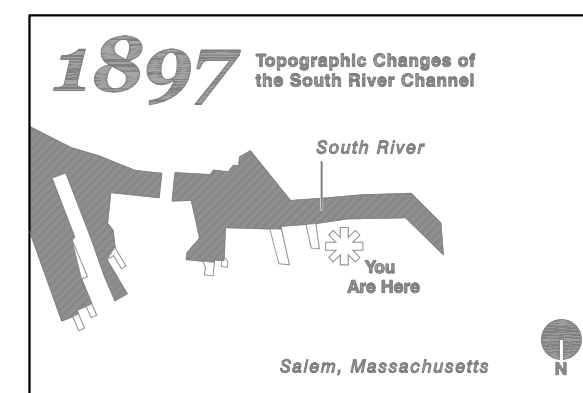
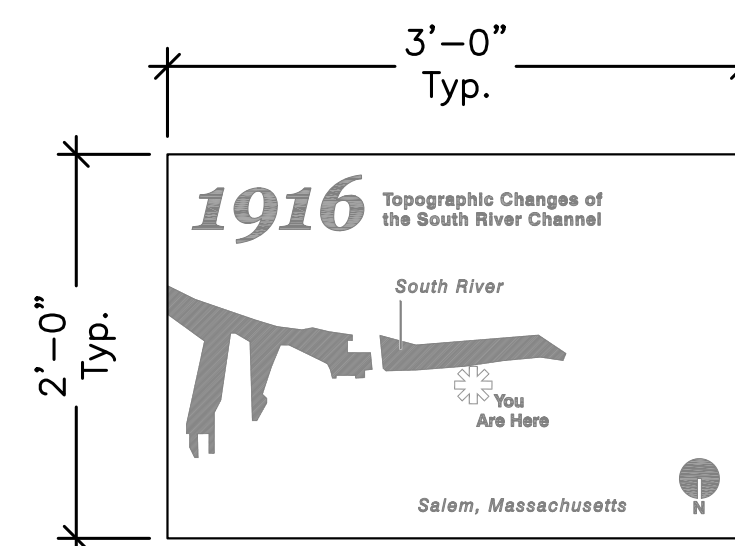


NOTES:

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

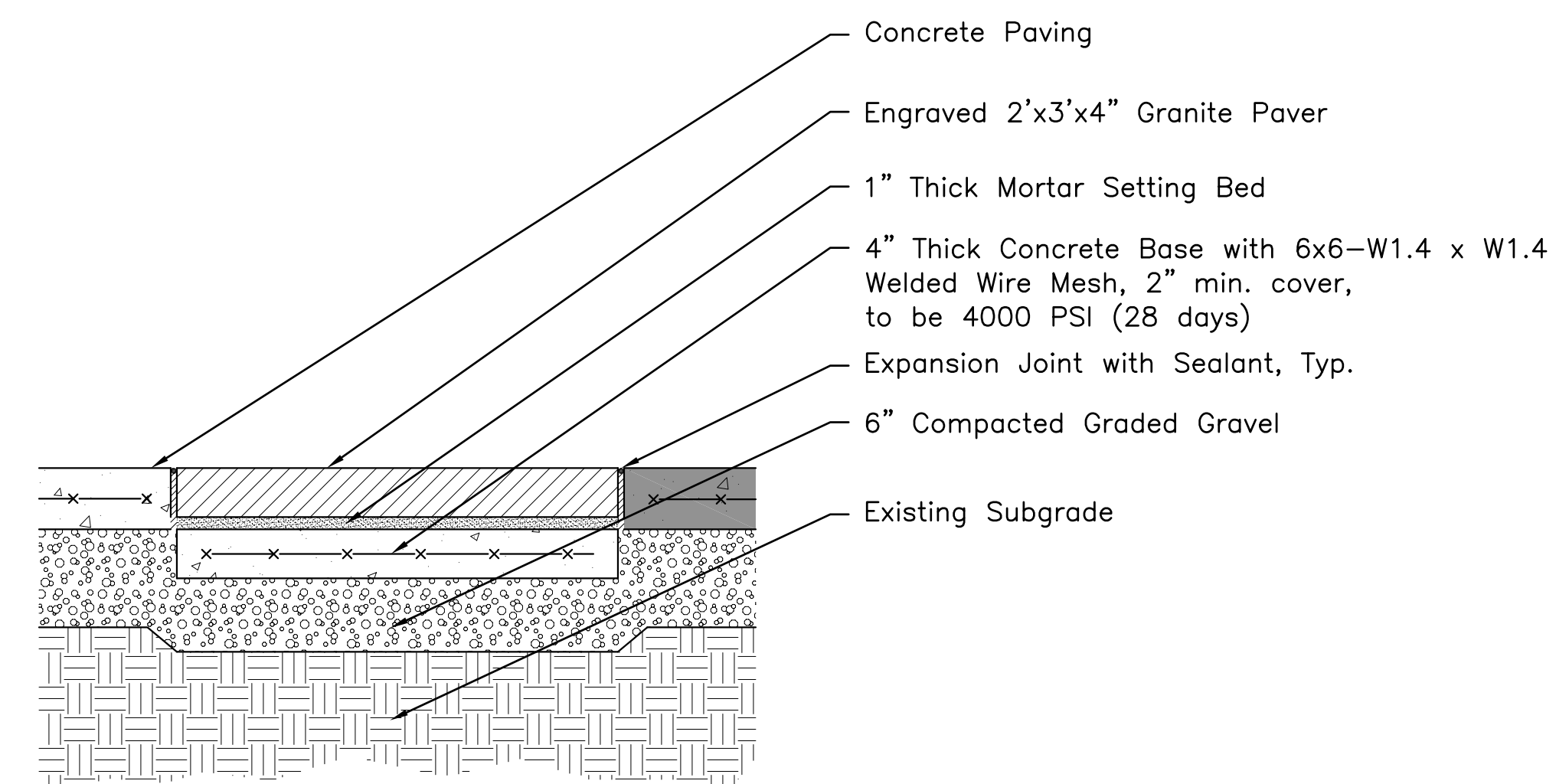
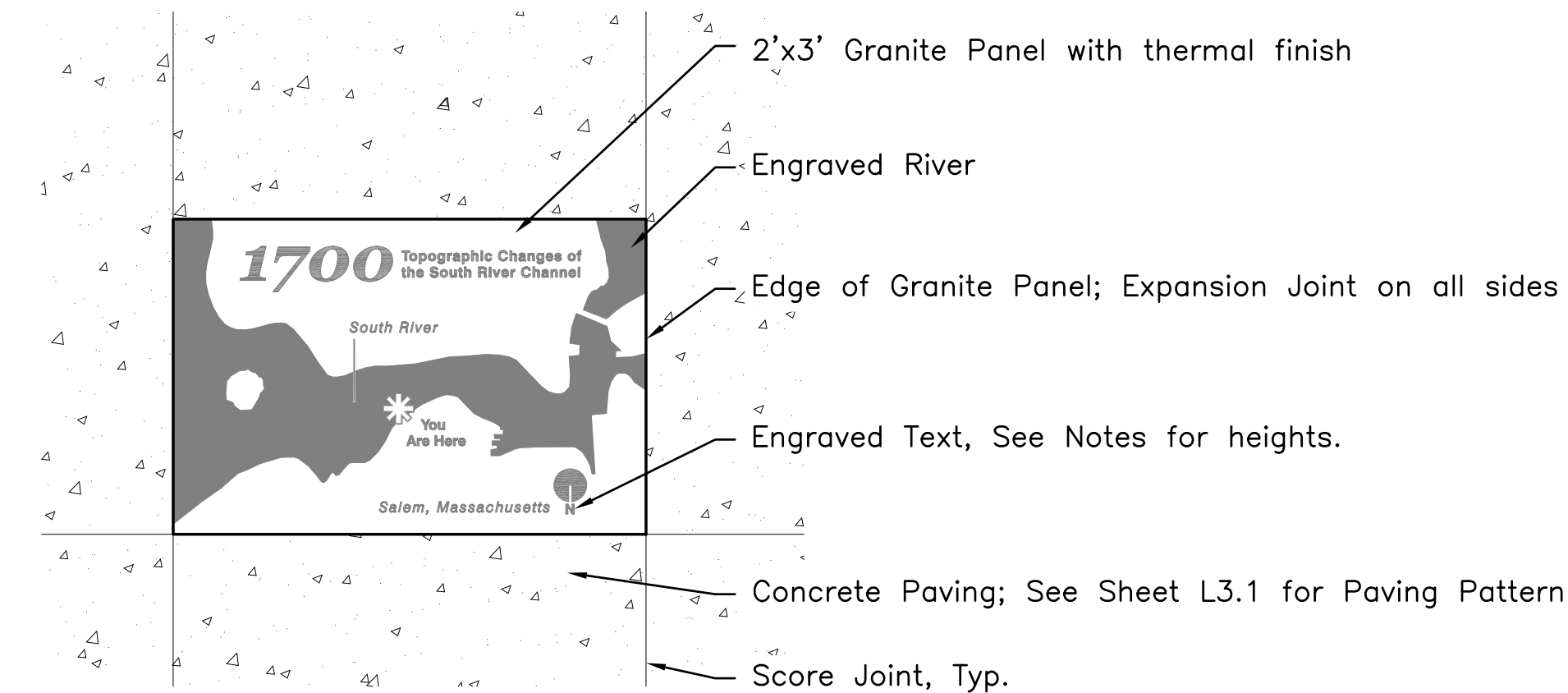
4) PRECAST CONCRETE CURB

Scale: 1" = 1'-0"



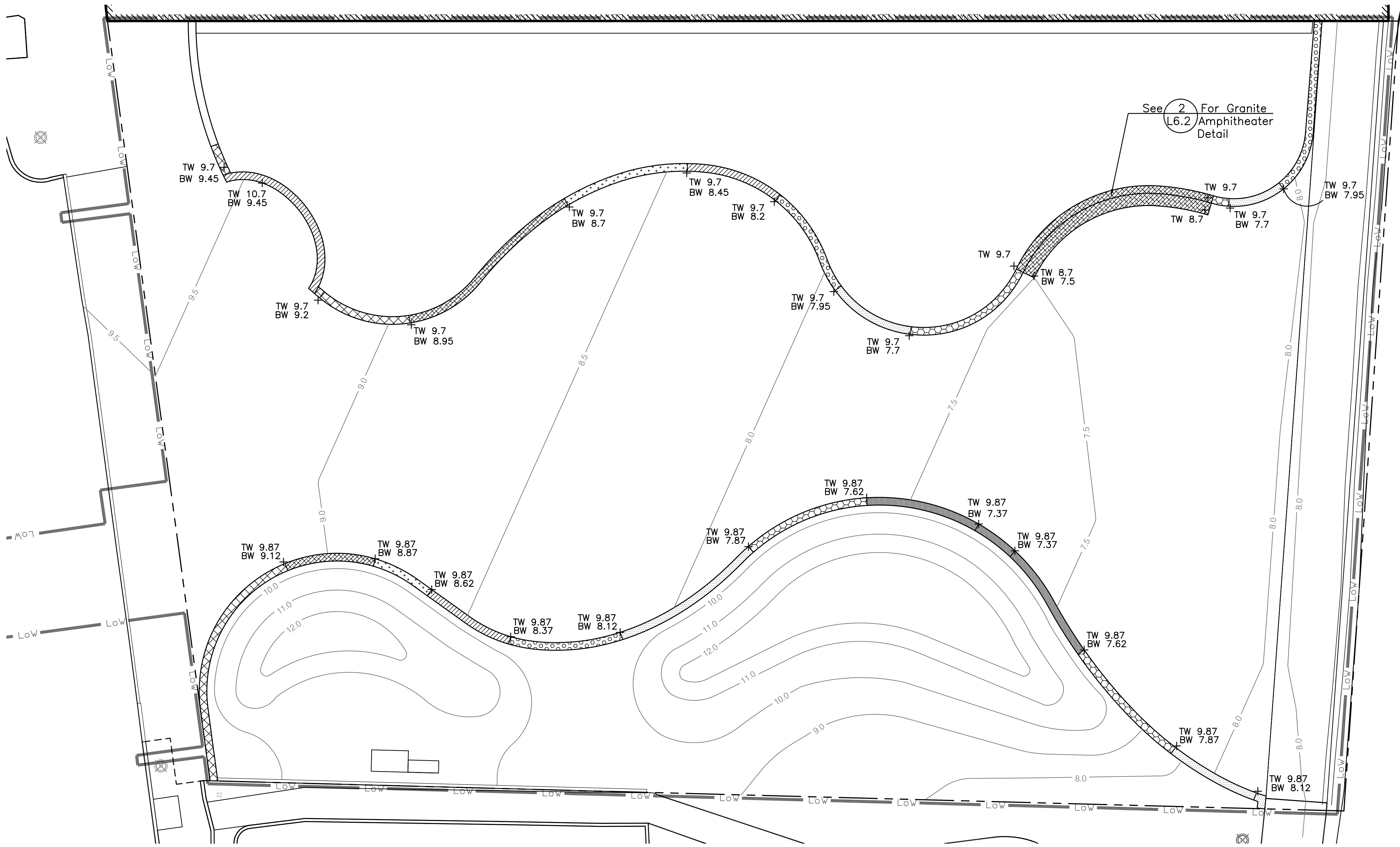
GRANITE PAVERS WITH HISTORIC MAP GRAPHICS

Scale: 1" = 1'-0"



NOTES:

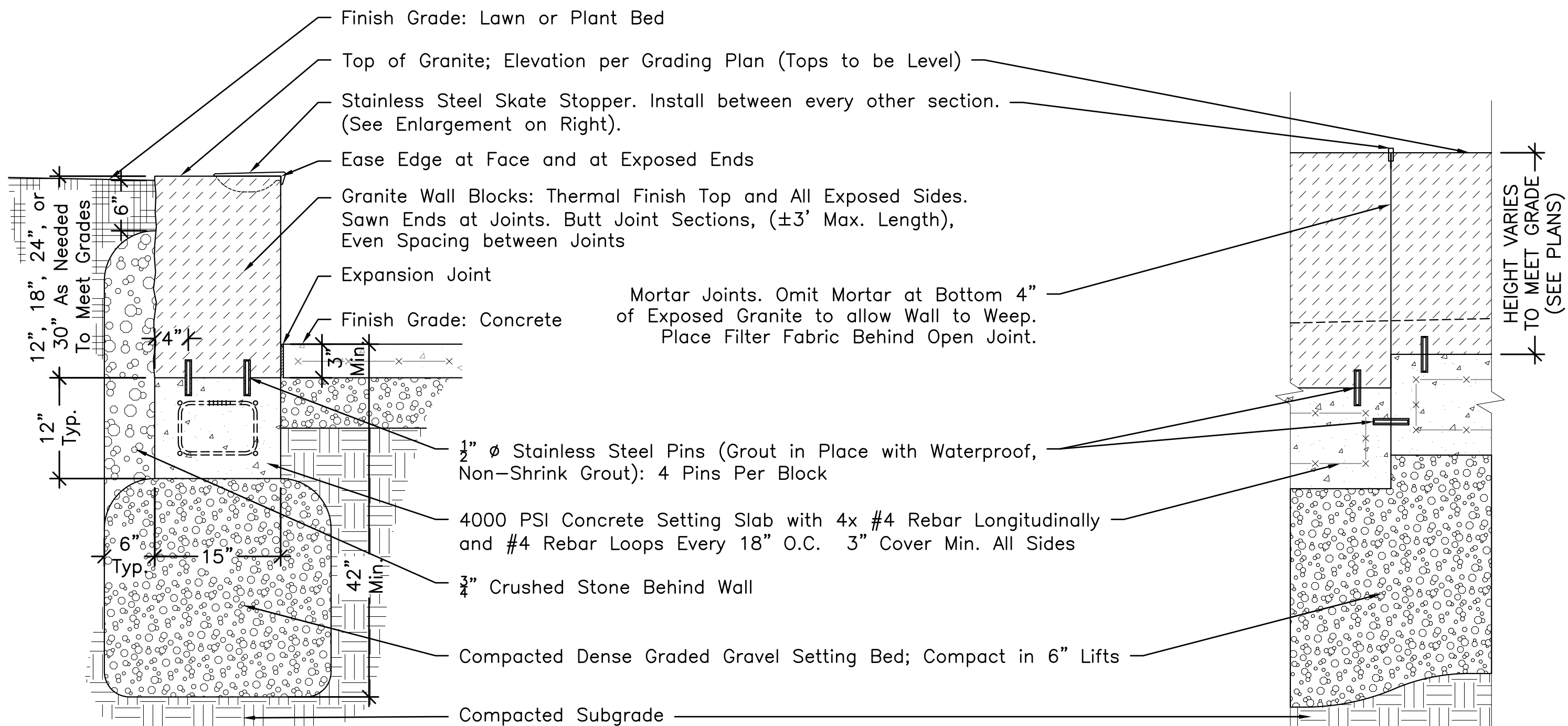
1. SHOP DRAWINGS REQUIRED.
2. Granite paver to be 24" wide, 36" long, and 4" deep.
3. Granite to be Woodbury Gray or Approved Equal with thermal finish.
4. Engravings to be maximum $\frac{3}{8}$ " depth. Contractor shall engrave granite using a "bleuing" process by Swenson Granite, or Approved Equal.
5. Date text height to be $\frac{3}{4}$ ".
6. All other text to be $\frac{3}{4}$ " height.
7. Landscape Architect shall provide Contractor with AutoCAD files for engraving map, symbols, numbers, and lettering. Fonts shall be confirmed with Owner and Landscape Architect prior to fabrication.
8. The Contractor shall coordinate the alignment and installation of the granite paver with the Landscape Architect prior to installation.
9. See Sheet L3.1 for location and layout of granite pavers.



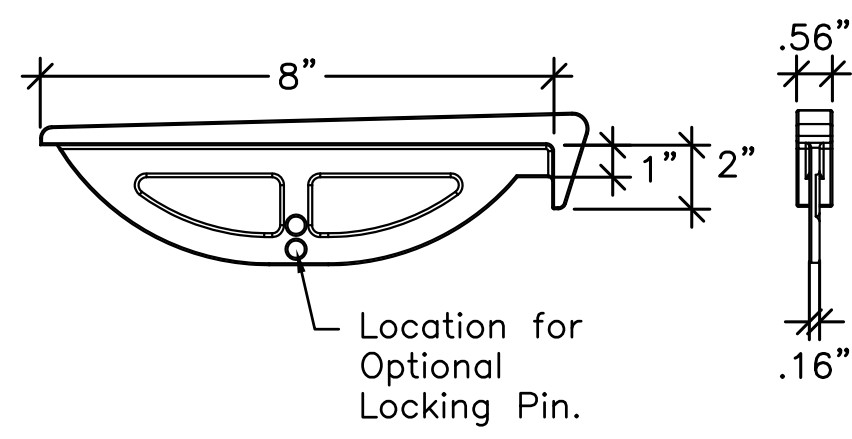
KEY:
Plan for Granite Block Heights

	1'		2'
	1'-3"		2'-3"
	1'-6"		2'-6"
	1'-9"		2'-9"

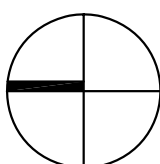
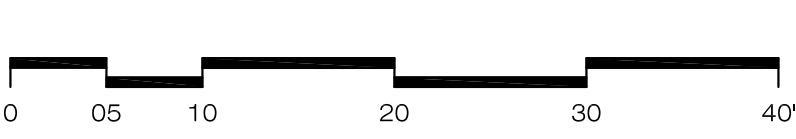
Note: Lengths showing granite block heights are approximate. Shop drawings are required before ordering granite.



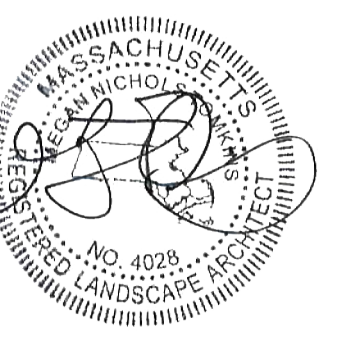
SKATE STOPPER ENLARGEMENT

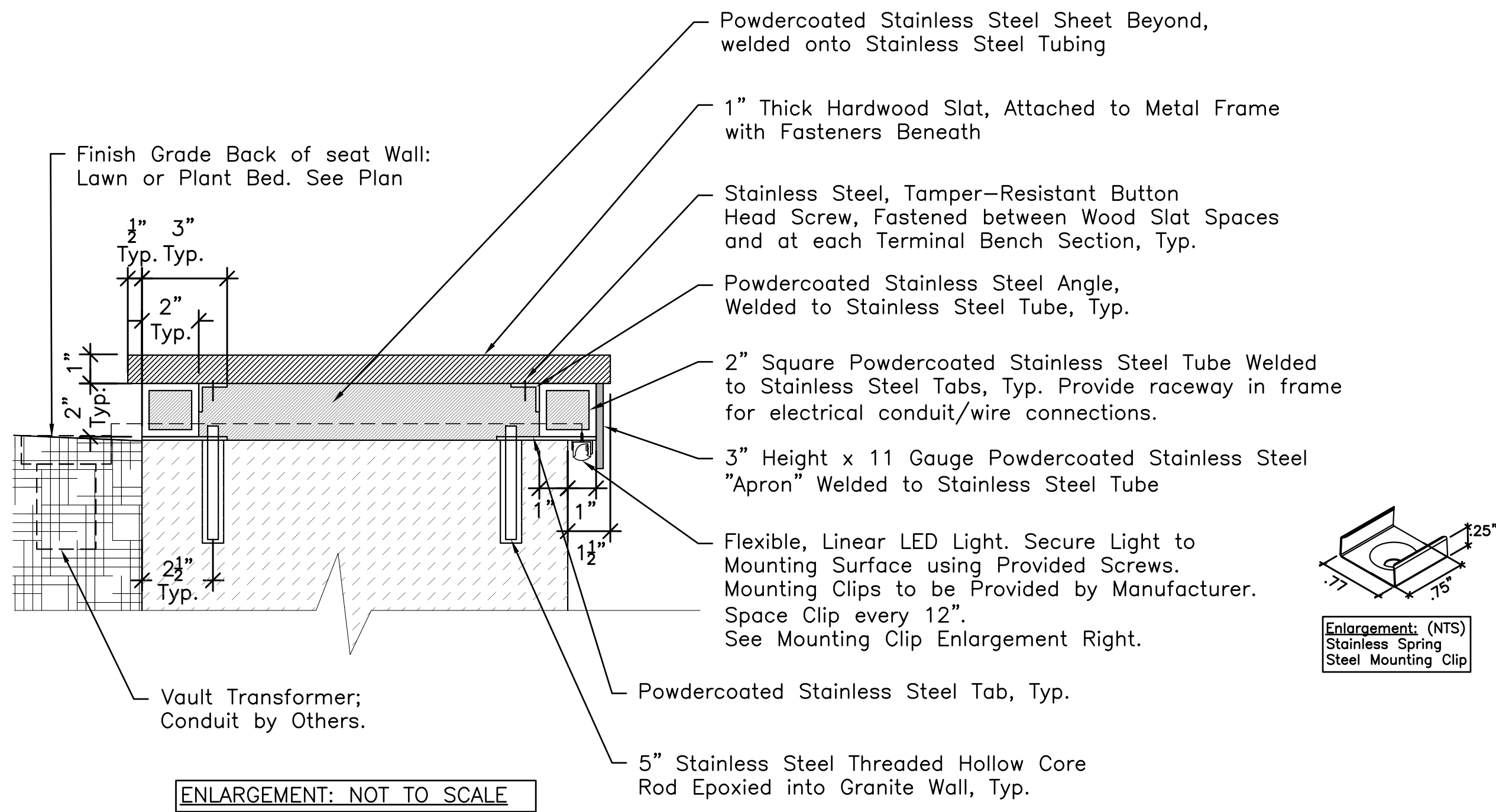


- NOTES:
- Granite to be "Callisto Silver Grey," "Chelmsford Grey," or Approved Equal. Provide sample of granite for approval.
 - SHOP DRAWINGS REQUIRED** showing block lengths and end/face treatments to confirm layout. Submit drawings for approval by Landscape Architect before ordering material.
 - Skate Stoppers to be 316 Stainless Steel Insert by Skate Stoppers®, El Cajon, CA 92020, 619-447-6374, info@skatestoppers.com.
 - Skate Stoppers to be installed between every other granite section. Skate Stoppers not needed in areas where benches will be mounted on top of granite. Follow all Manufacturer's instructions for installation.



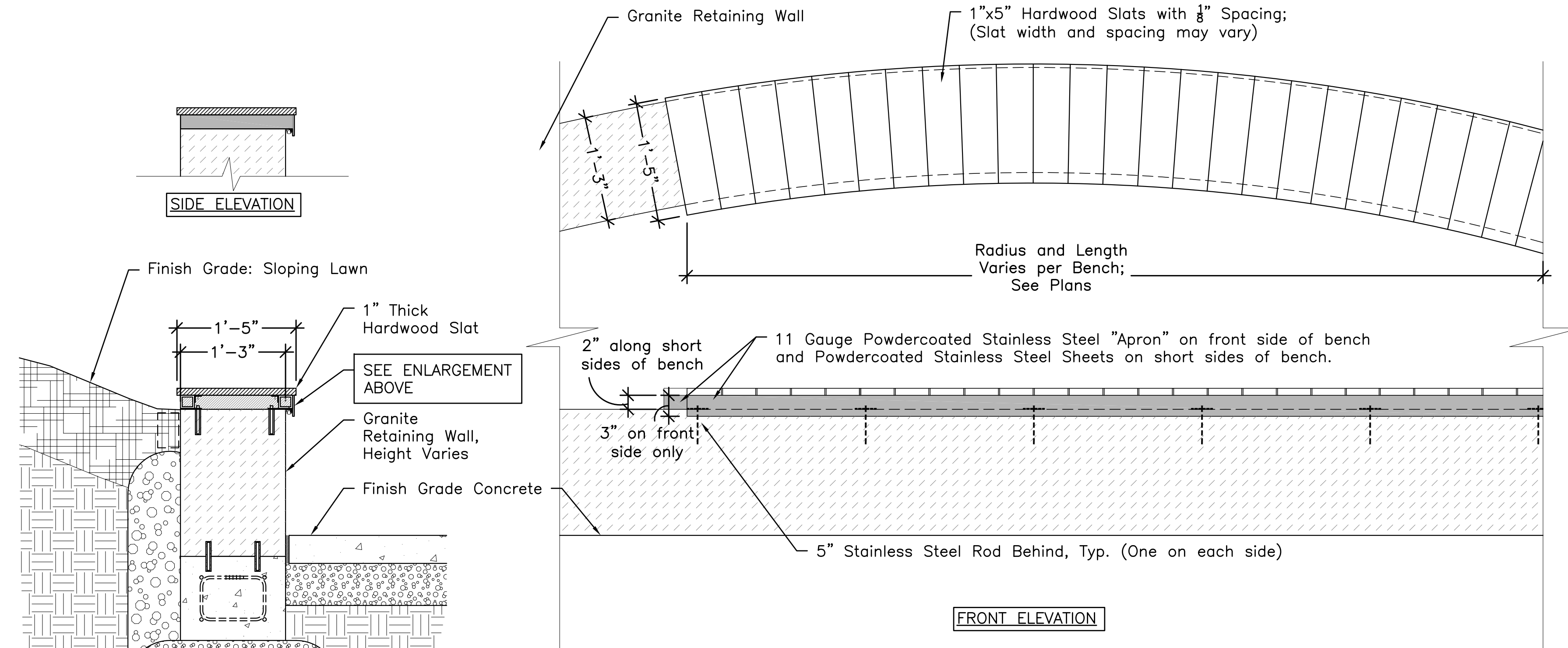
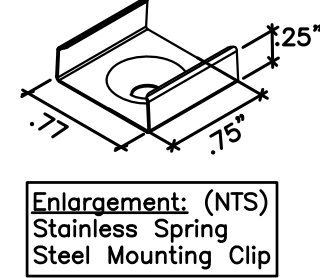
1 GRANITE SEAT WALL WITH METAL SKATE STOPPERS
Scale: 1" = 1'-0"





Integrated LED Lighting Notes:

1. SHOP DRAWINGS REQUIRED.
2. Install according to all applicable codes and per manufacturer's instructions. Confirm all grounding.
3. Light Fixtures to be: Q-Tran: Q-CAP-D3 or Approved Equal. (Local Q-Tran Representative: OmniLite)
4. Transformers for groups of runs shall be located in vaults in plant bed behind benches, vaults to be Q-Vaults 5-BZ-FR by Q-tran, or approved equal.
5. Transformer for benches 1, 2, and 5, to be Q-SET-300-120/24 by Q-Tran or approved equal. Benches 1 & 2 to share a transformer per basis of design. Note: Bench 2 is base bid, benches 1 & 5 are add alternate #2.
6. Transformer for benches 3 & 4 to be Q-SET-360-120/24 by Q-Tran or approved equal. Benches 3 & 4 to share a transformer per basis of design. Note: Benches 3 & 4 are base bid.
7. See Electrical Drawings voltage information.
8. Butt Joint ends of adjacent 16' (or as needed) lengths; cover all ends of lengths with manufacturer-provided end caps. Where adjacent runs meet at the conduit/connection end, abut ends as closely as feasible.

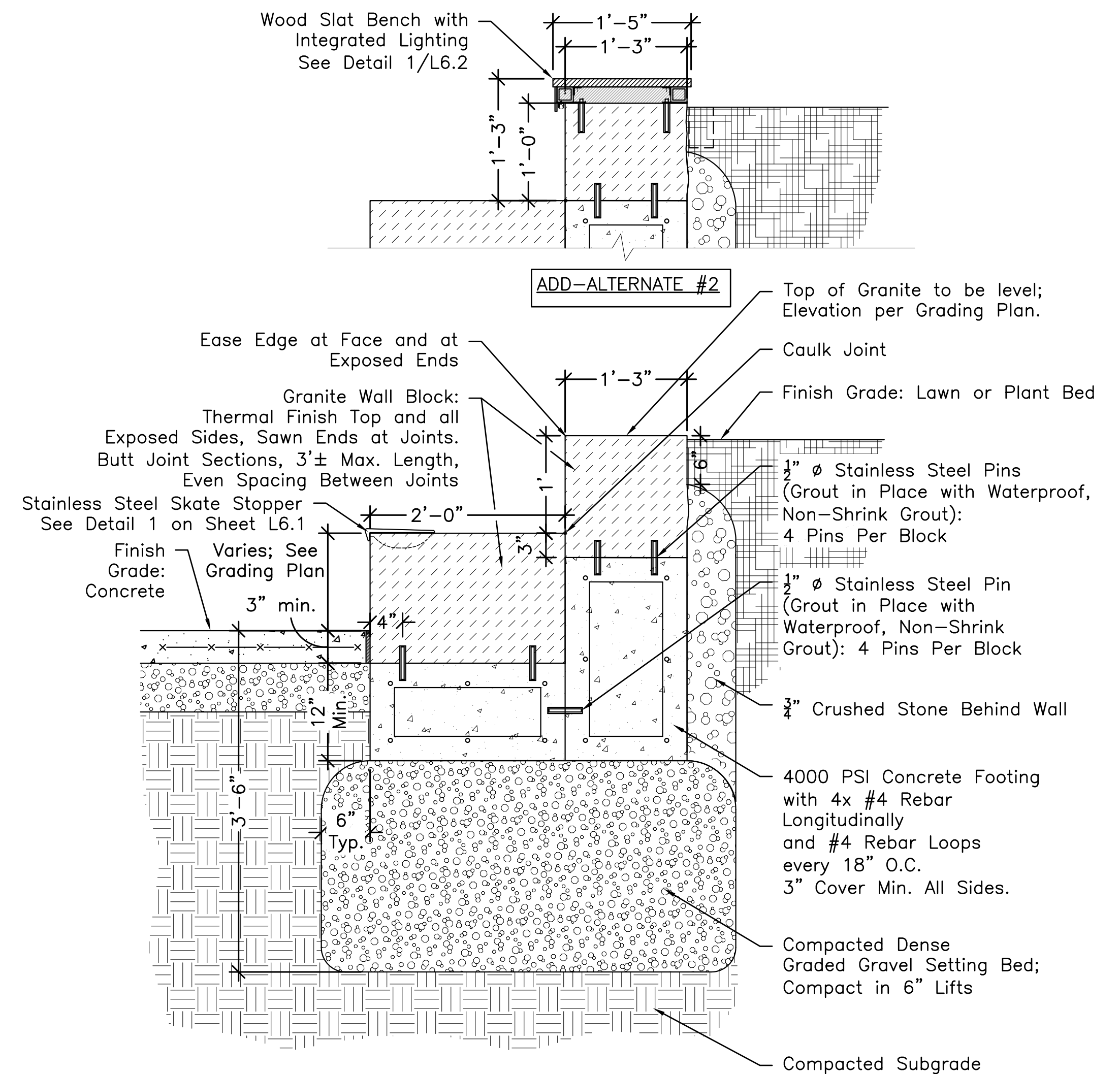


Notes:

1. SHOP DRAWINGS REQUIRED.
2. Benches to be custom benches by Forms + Surfaces (30 Pine St. Pittsburgh, PA 15223), or Tournesol Siteworks (2930 Faber St. Union City, CA 94587), or Landscape Forms (7800 E Michigan Ave. Kalamzoo, MI 49048), or approved equal.
3. Wood slats to be 1x5 (Nominal) FSC 100% Jatoba Hardwood.
4. Metal framework to be powder-coated stainless steel. Powdercoat color to be determined by Landscape Architect.
5. Non-corrosive anchor hardware provided by others.
6. Final metal framework design and mounting connections to be designed by Manufacturer and approved by Landscape Architect.
7. See Sheet L2.0 for locations of Add-Alternate #2 Benches with Integrated Lighting.
8. See Sheet L3.2 for layout of benches.
9. See Notes above and Specifications for more information on integrated lighting.

WOOD-SLAT BENCH WITH INTEGRATED LIGHTING – BASE BID BENCHES #2, #3, #4 (ADD. ALTERNATE #2 – BENCHES #1 AND #5)

Scale: 1" = 1'-0"

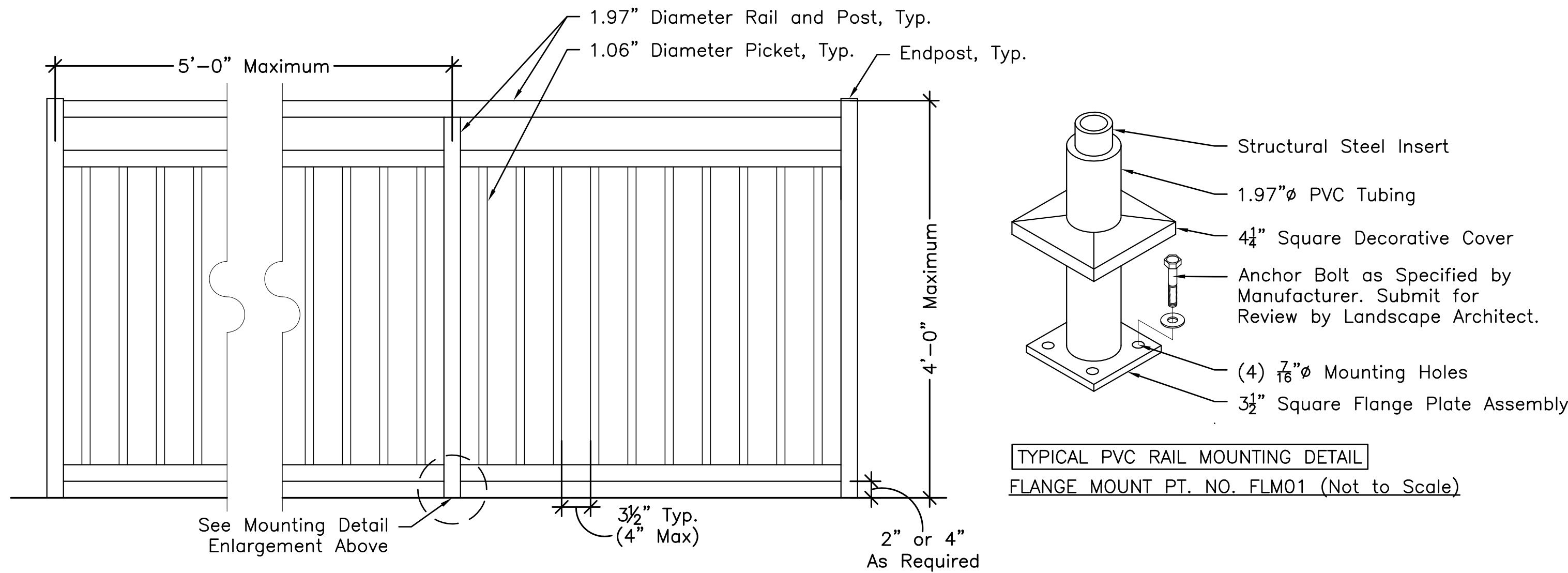


NOTES:

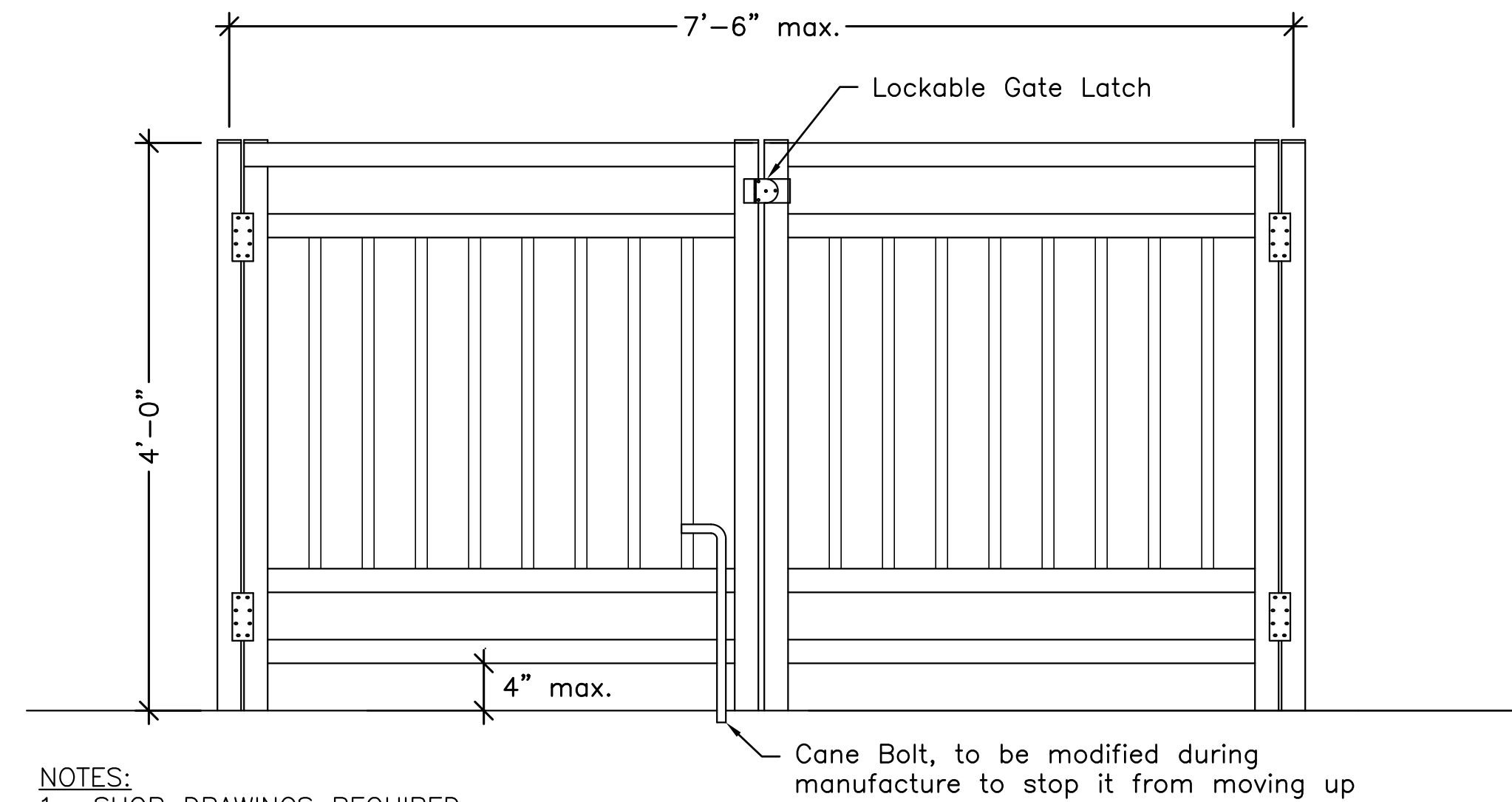
1. Granite to be "Callisto Silver Grey," "Chelmsford Grey," or Approved Equal. Provide sample of granite for approval.
2. SHOP DRAWINGS REQUIRED showing block lengths and end/face treatments to confirm layout. Submit drawings for approval by Landscape Architect before ordering material.

GRANITE AMPHITHEATER – BASE BID (ADD. ALTERNATE #2 – WOOD SLAT BENCH #5)

Scale: 1" = 1'-0"



- NOTES:
- Gaurdrail to be Series Avcon "Malibu" by Advanced Products, LLC (to match existing guardrail). Color to be black.
 - Contact: (732) 286-9496, info@avcon.com, www.avcon.com.
 - Follow all manufacturer's specifications and installation instructions.



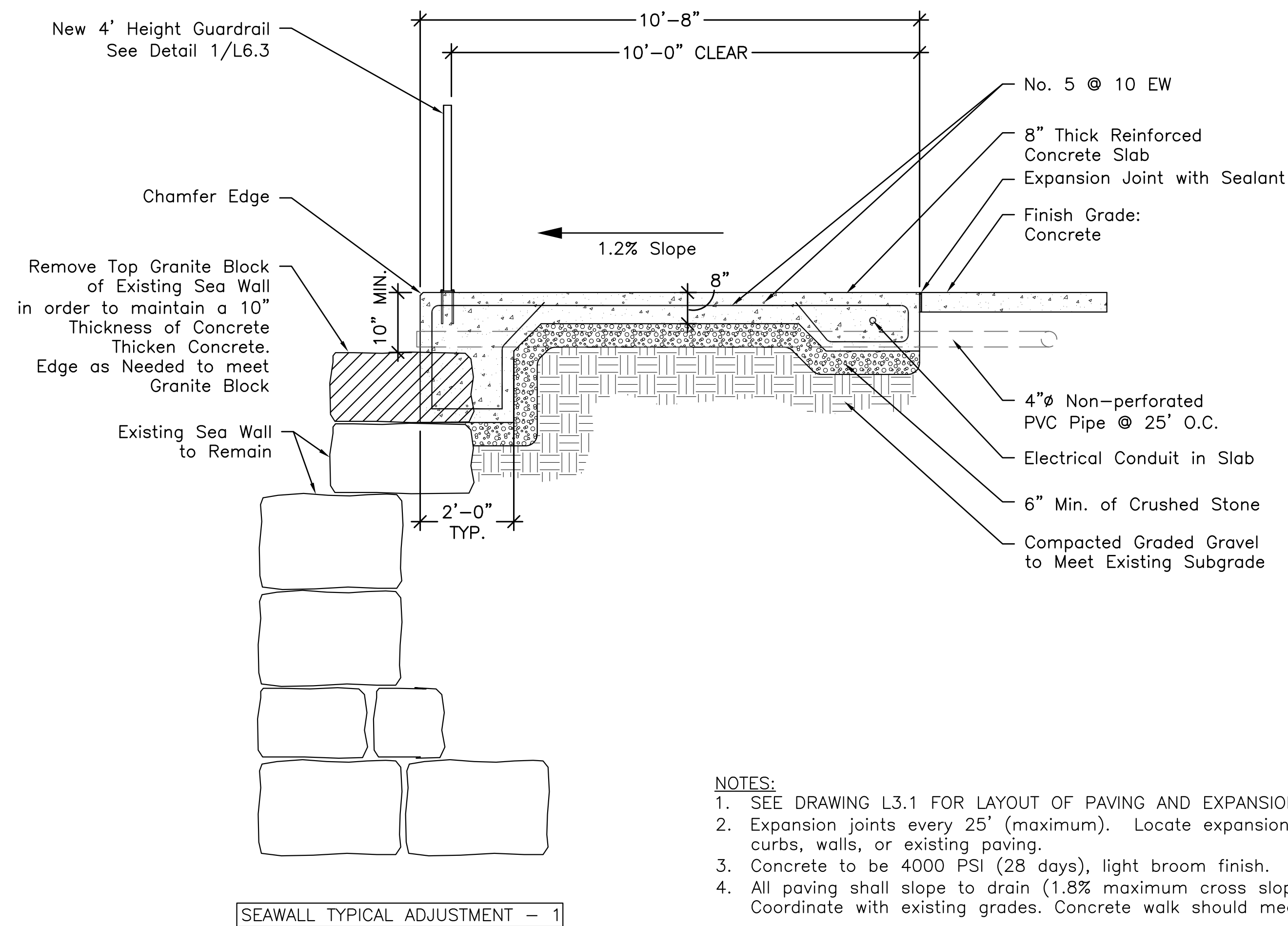
- NOTES:
- SHOP DRAWINGS REQUIRED.
 - Gate to be Series Avcon "Cape Cod" by Advanced Products, LLC. Color to be black.
 - Upper Rails and Bottom Rail to align with those of Harborwalk Guardrail.
 - Contact: (732) 286-9496, info@avcon.com, www.avcon.com.
 - Follow all manufacturer's specifications and installation instructions.
 - Gate Product to be the same Manufacturer used for Guardrail Product used along Harborwalk adjacent to the site..

1 HARBORWALK PVC AND METAL GUARDRAIL

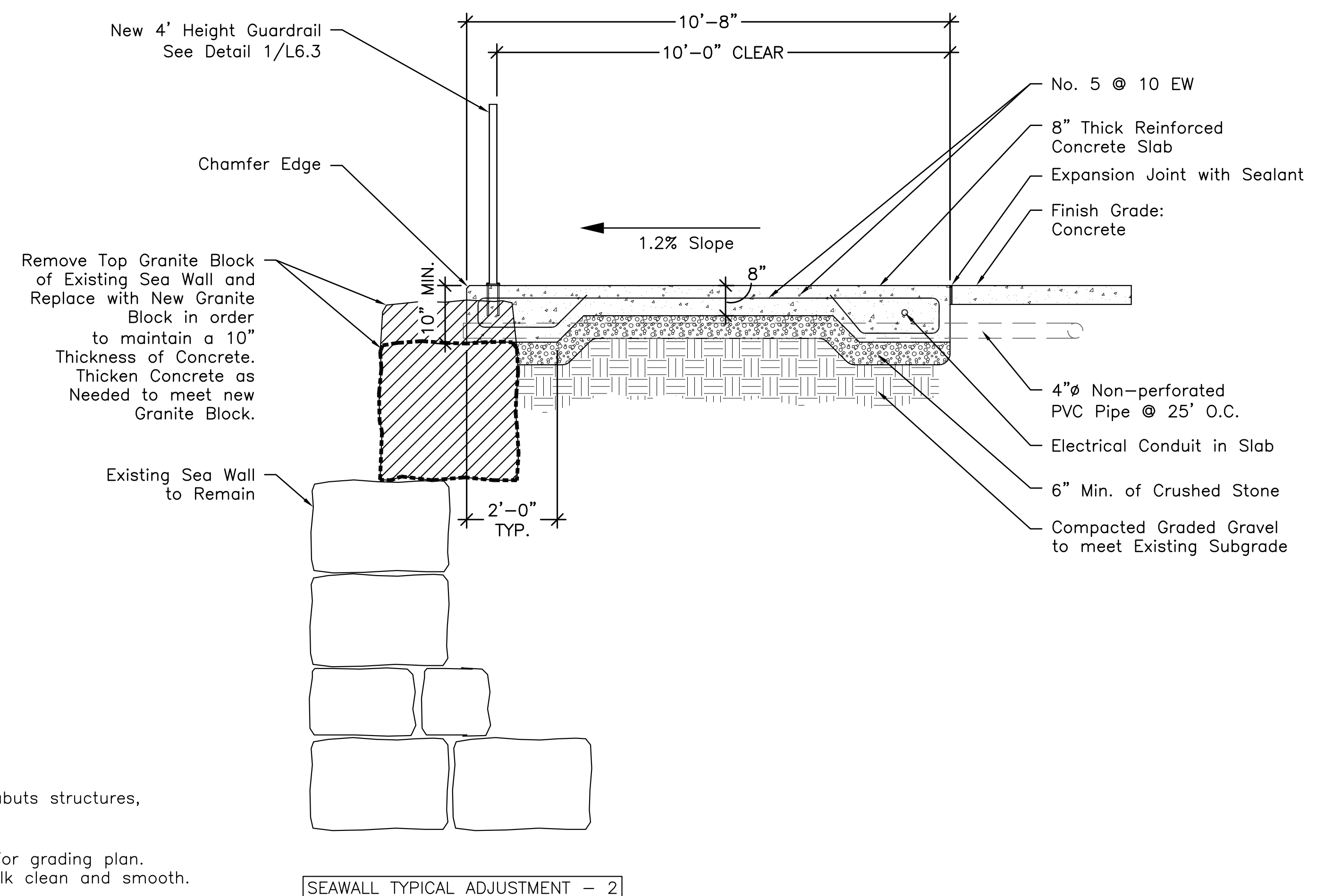
Scale: 1" = 1'-0"

2 HARBORWALK PVC AND METAL DOUBLE GATE

Scale: 1" = 1'-0"

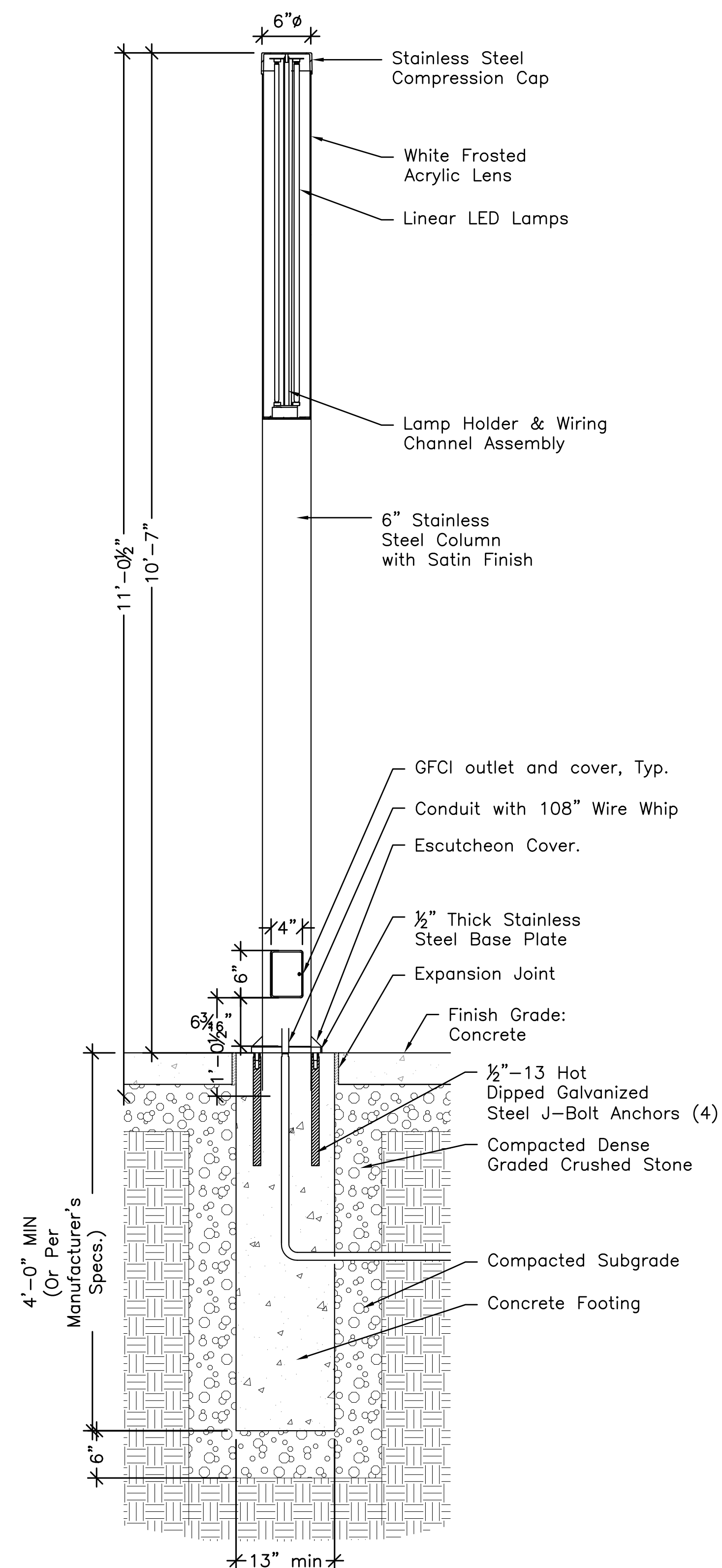


- NOTES:
- SEE DRAWING L3.1 FOR LAYOUT OF PAVING AND EXPANSION JOINT PATTERN.
 - Expansion joints every 25' (maximum). Locate expansion joints where paving abuts structures, curbs, walls, or existing paving.
 - Concrete to be 4000 PSI (28 days), light broom finish.
 - All paving shall slope to drain (1.8% maximum cross slope). See Sheet L4.0 for grading plan. Coordinate with existing grades. Concrete walk should meeting existing harborwalk clean and smooth.

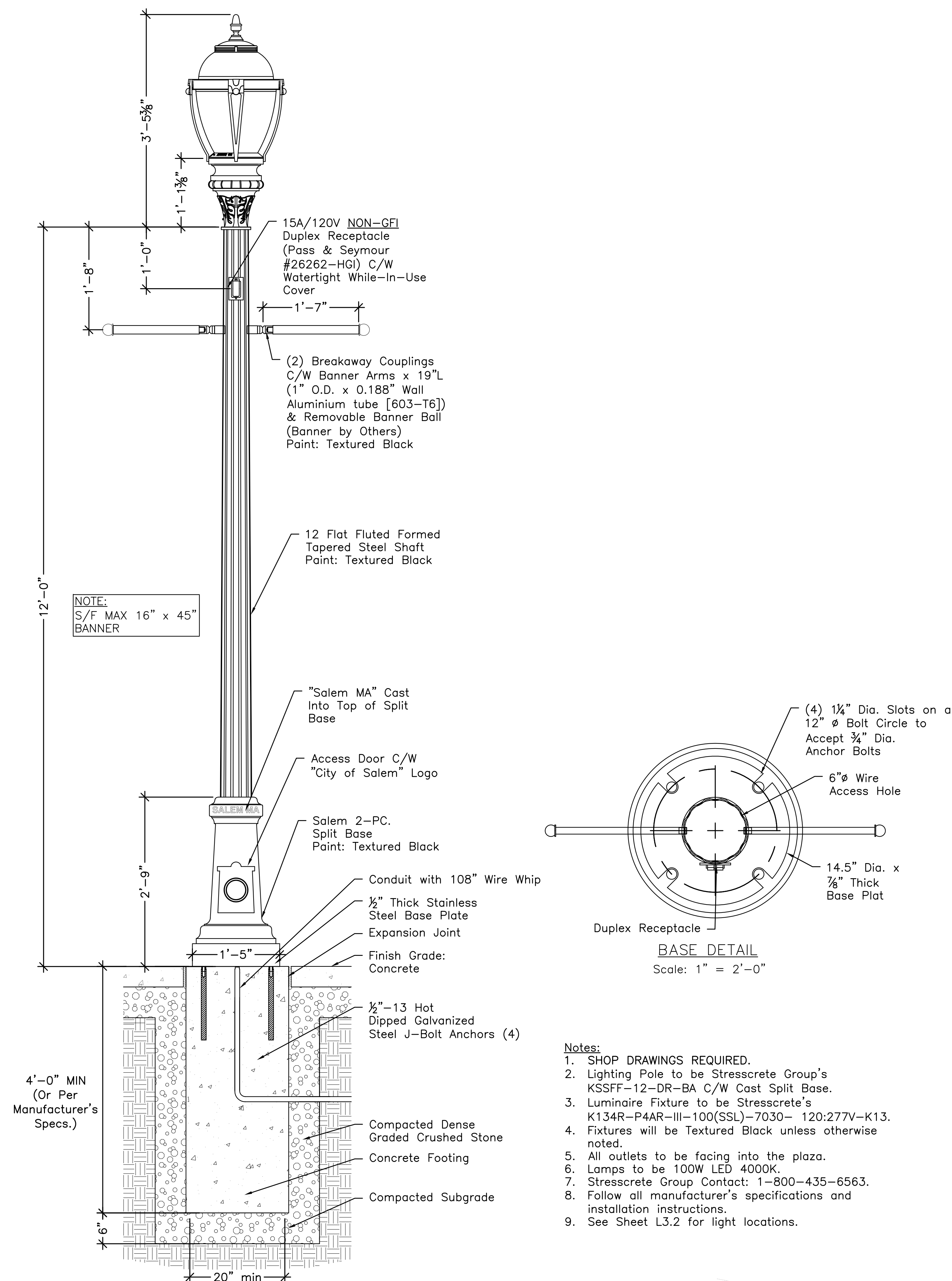


3 HARBORWALK EXTENSION - CONCRETE PAVING AND TREATMENT OF EXISTING SEAWALL

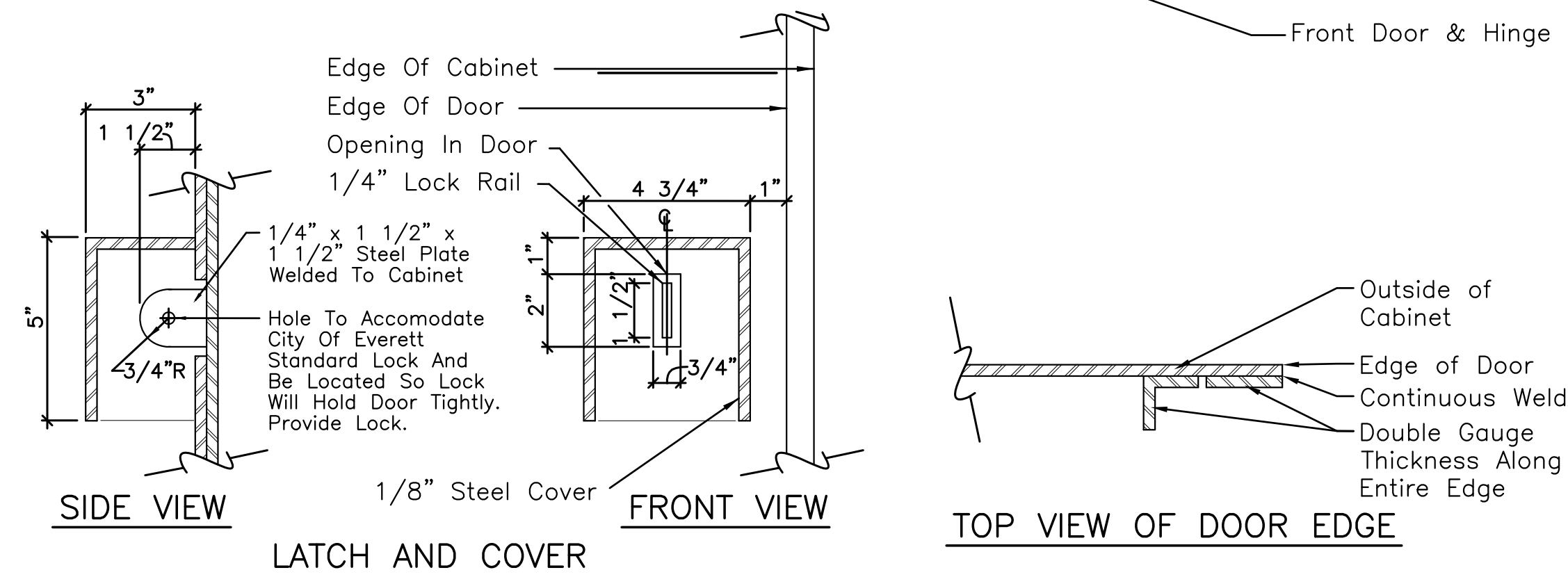
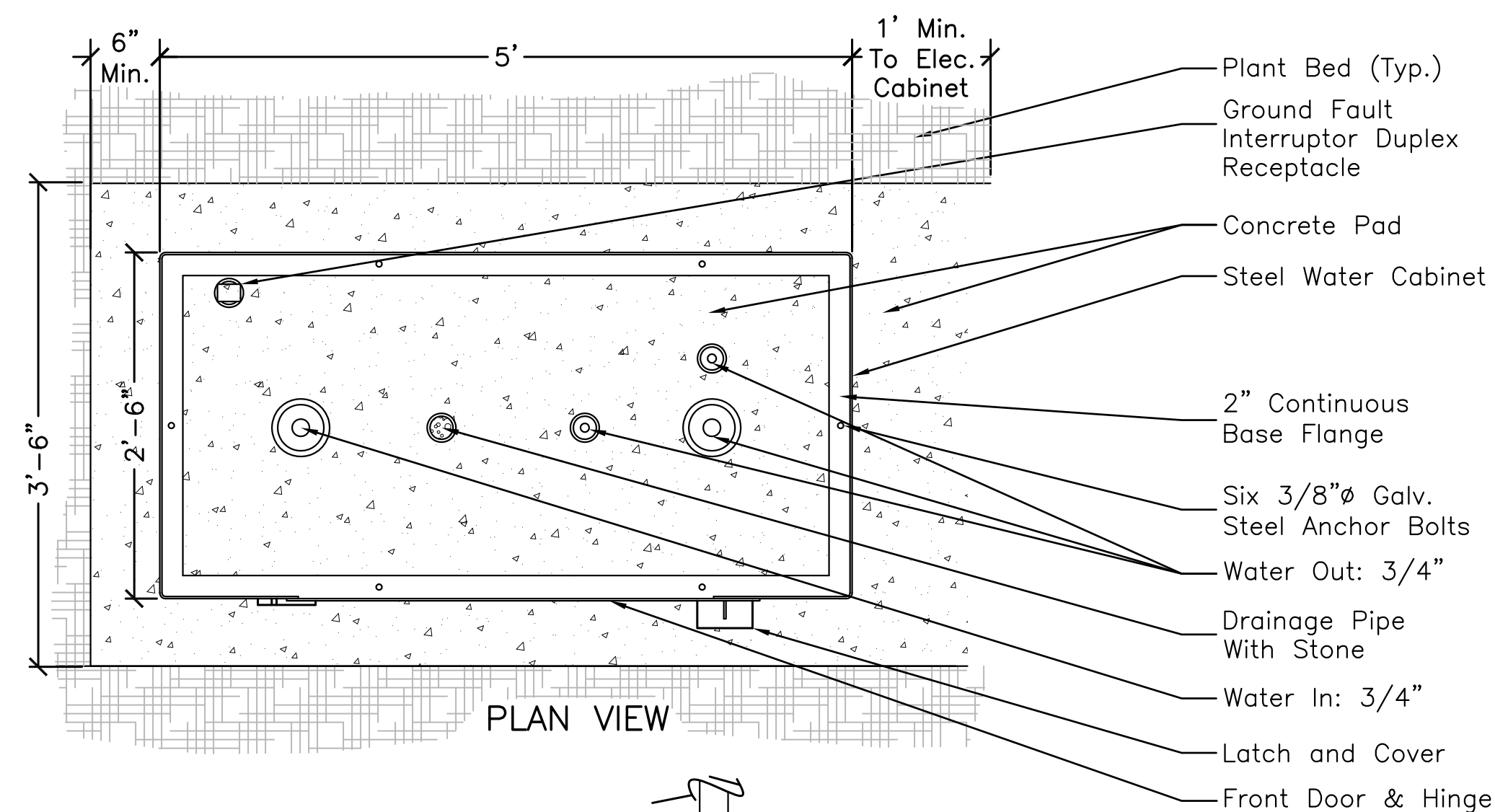
Scale: 1/2" = 1'-0"

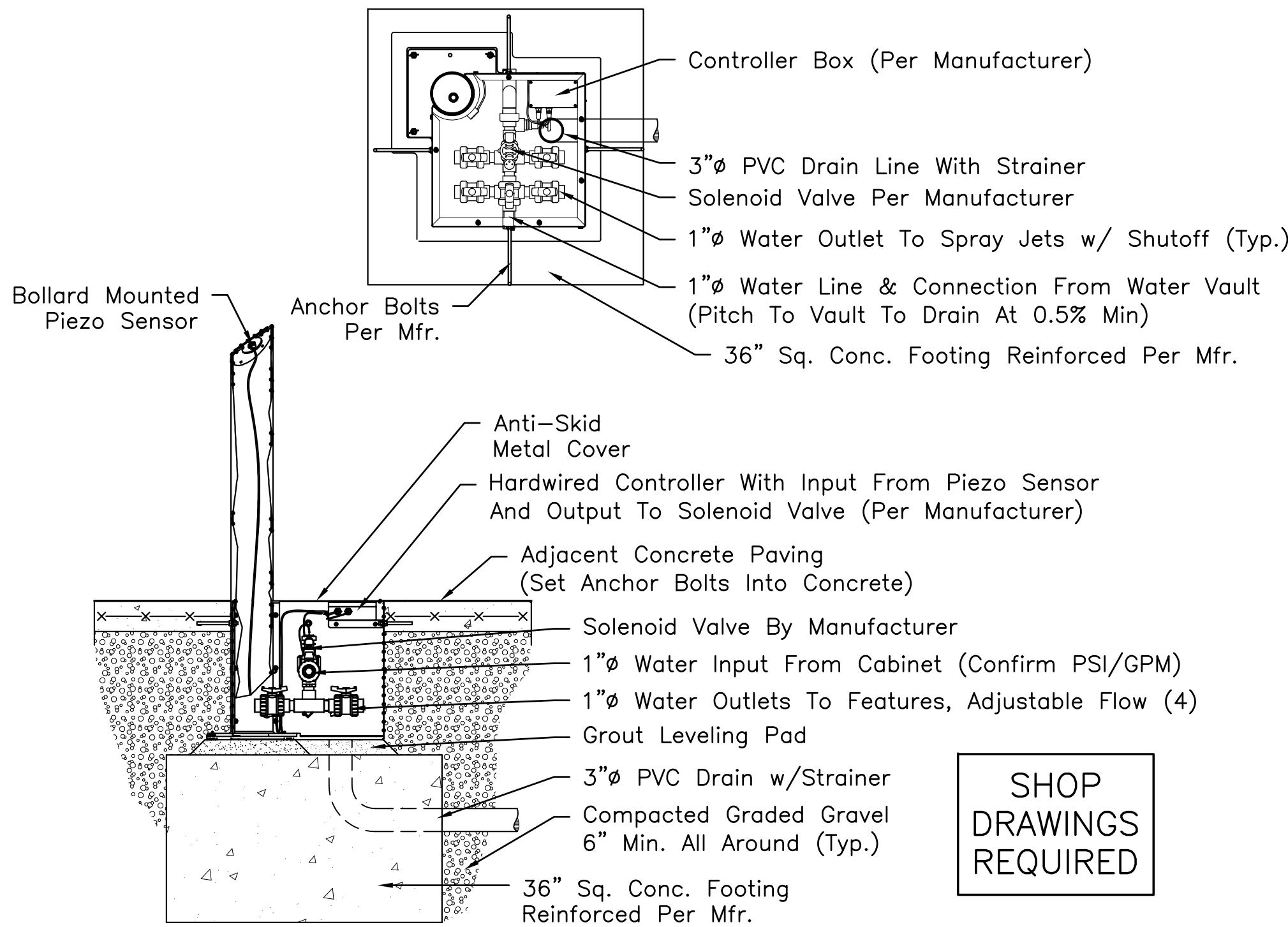


1 PEDESTRIAN SCALE LIGHT COLUMN
Scale: 1" = 1'-0"



2 SOUTH RIVER HARBOR WALK LIGHT FIXTURE AND POLE
Scale: 1" = 1'-0"



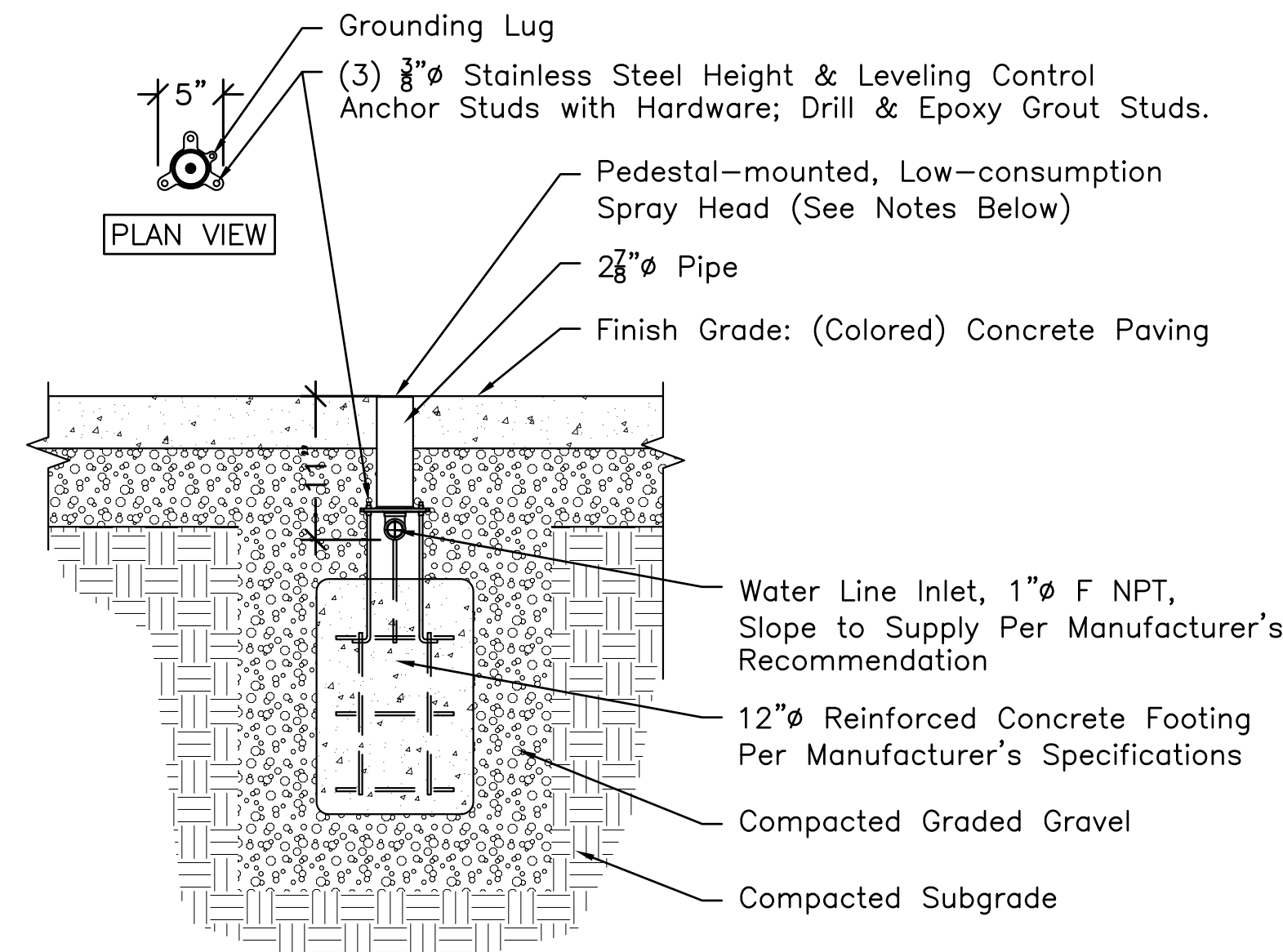


NOTES:

1. Activator shall be a bollard-operated standalone hardwired unit, produced by the same company as the spray jets, "Eco-Activator" by Waterplay Inc. of Kelowna, BC, or Appr. Equal.
2. Color of bollard, cover, and plate to be selected from standard colors by LA and Owner.
3. Install per manufacturer's instructions and according to all applicable Codes.

1 BOLLARD MOUNTED ACTIVATOR

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

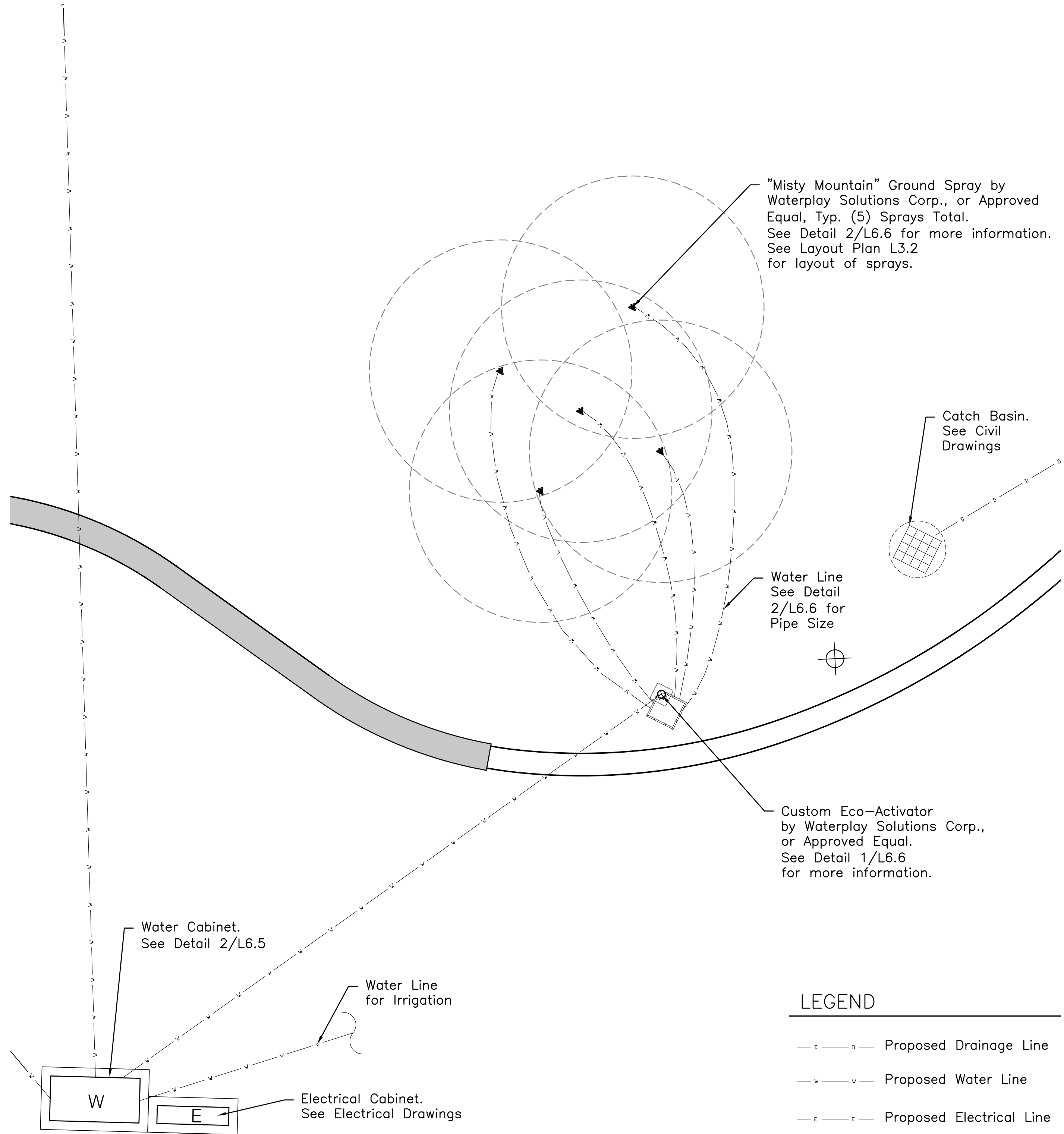


NOTES:

1. Spray to be "Misty Mountain" by WaterPlay Solutions Corp. (Kelowna, British Columbia, www.waterplay.com) or Approved Equal. Cap shall produce a soft conical mist of water. Water Flow Rate 1gpm max; Pressure 15 psi; Inlet Size 1"Ø NPT coupler.

2 GROUND SPRAY (ADD. ALTERNATE #3)

Scale: 1" = 1'-0"

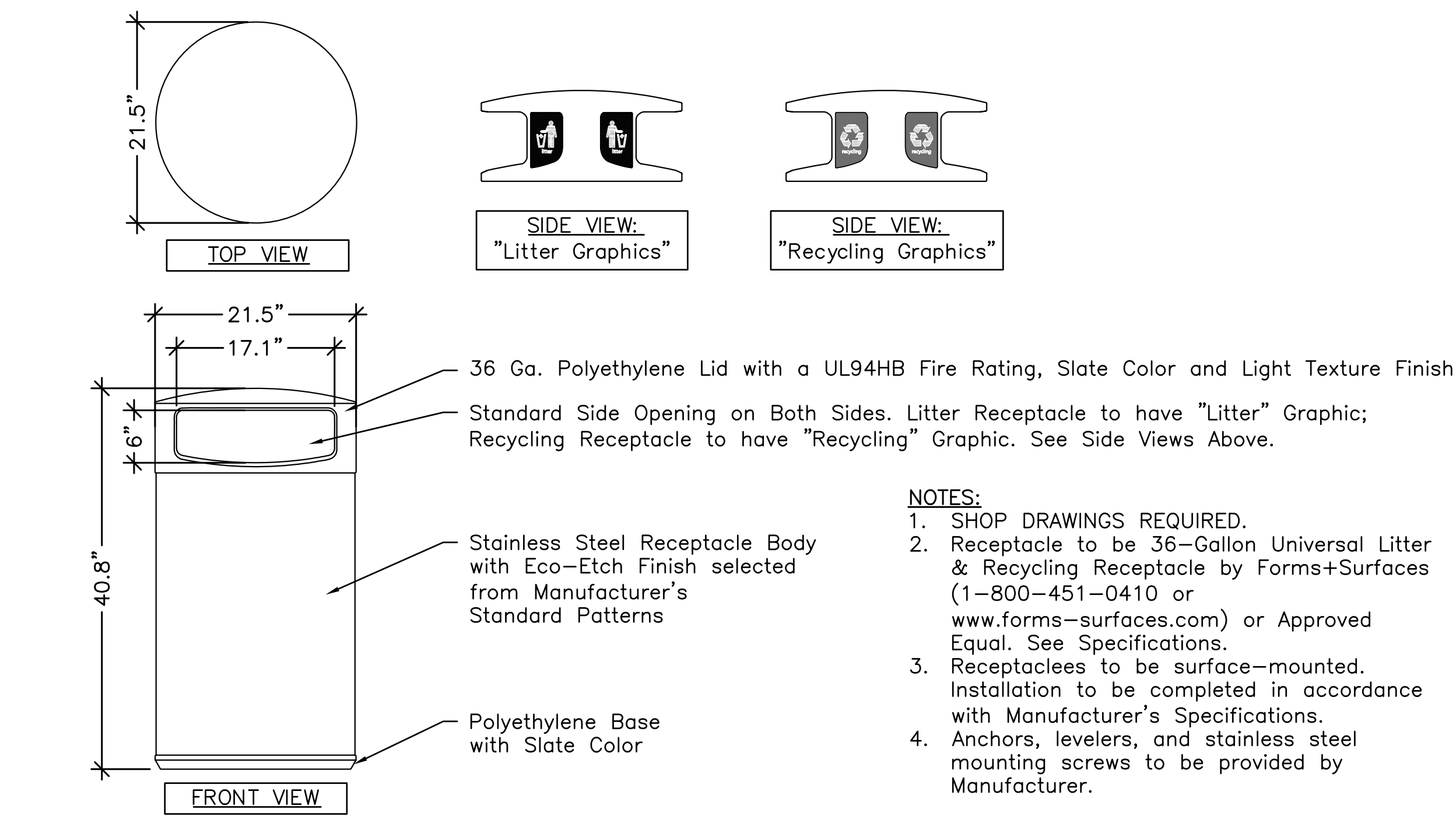


LEGEND

- Proposed Drainage Line
- Proposed Water Line
- Proposed Electrical Line

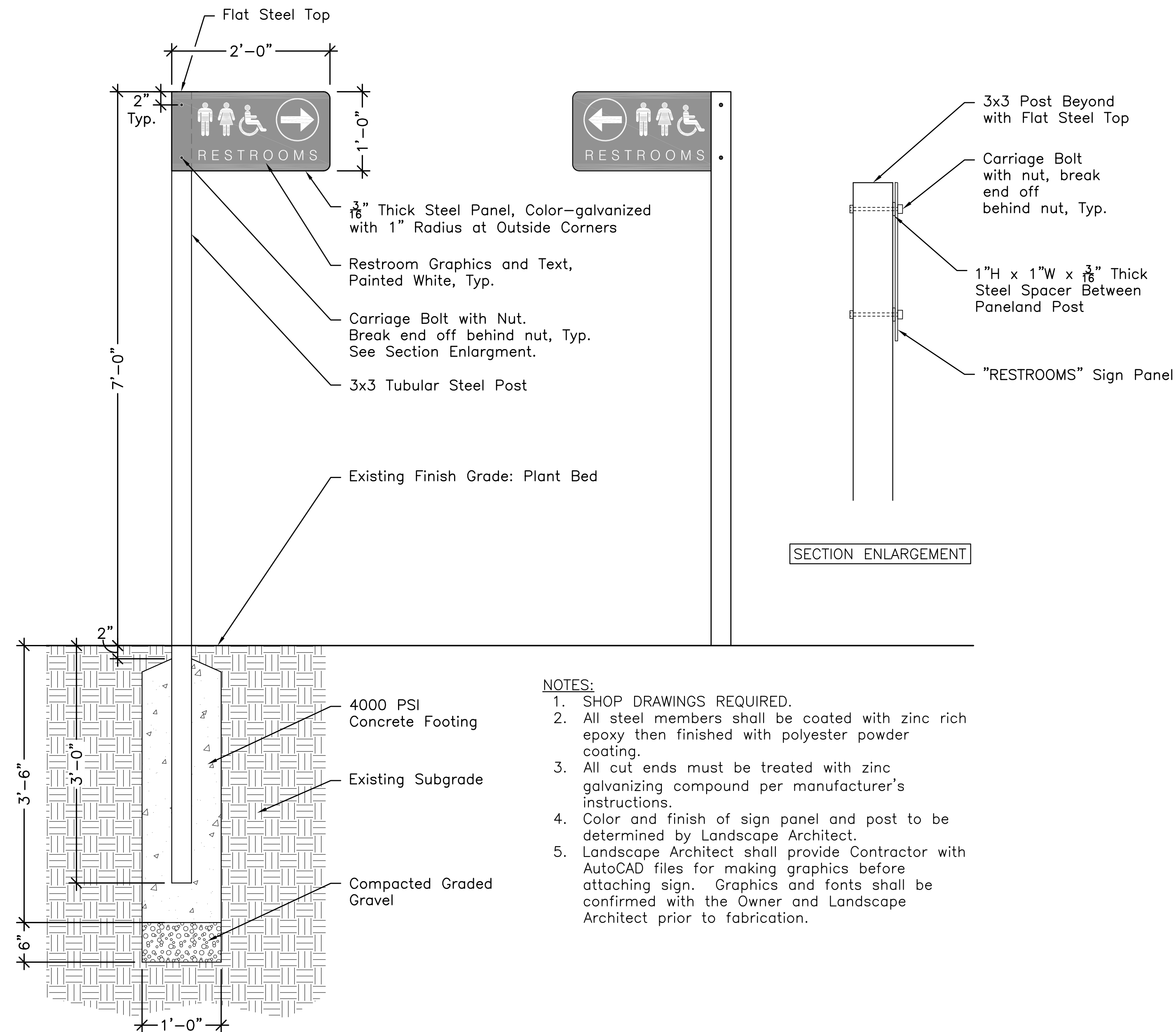
3 SPLASH PAD PLUMBING DIAGRAM (ADD. ALTERNATE #3) SCHEMATIC ONLY

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



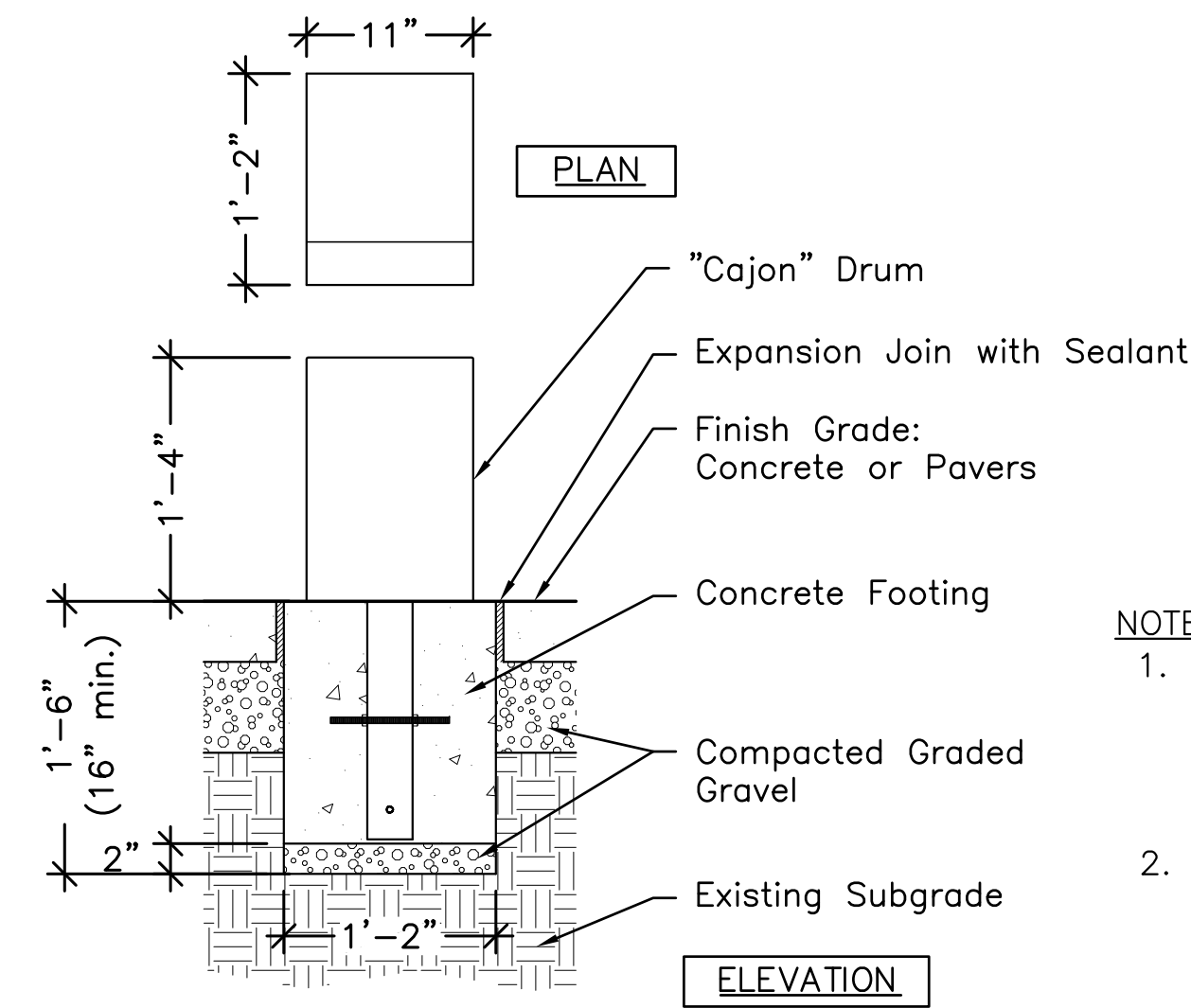
1 LITTER AND RECYCLING RECEPTACLE

Scale: 1" = 1'-0"



2 RESTROOM SIGN

Scale: 1" = 1'-0"

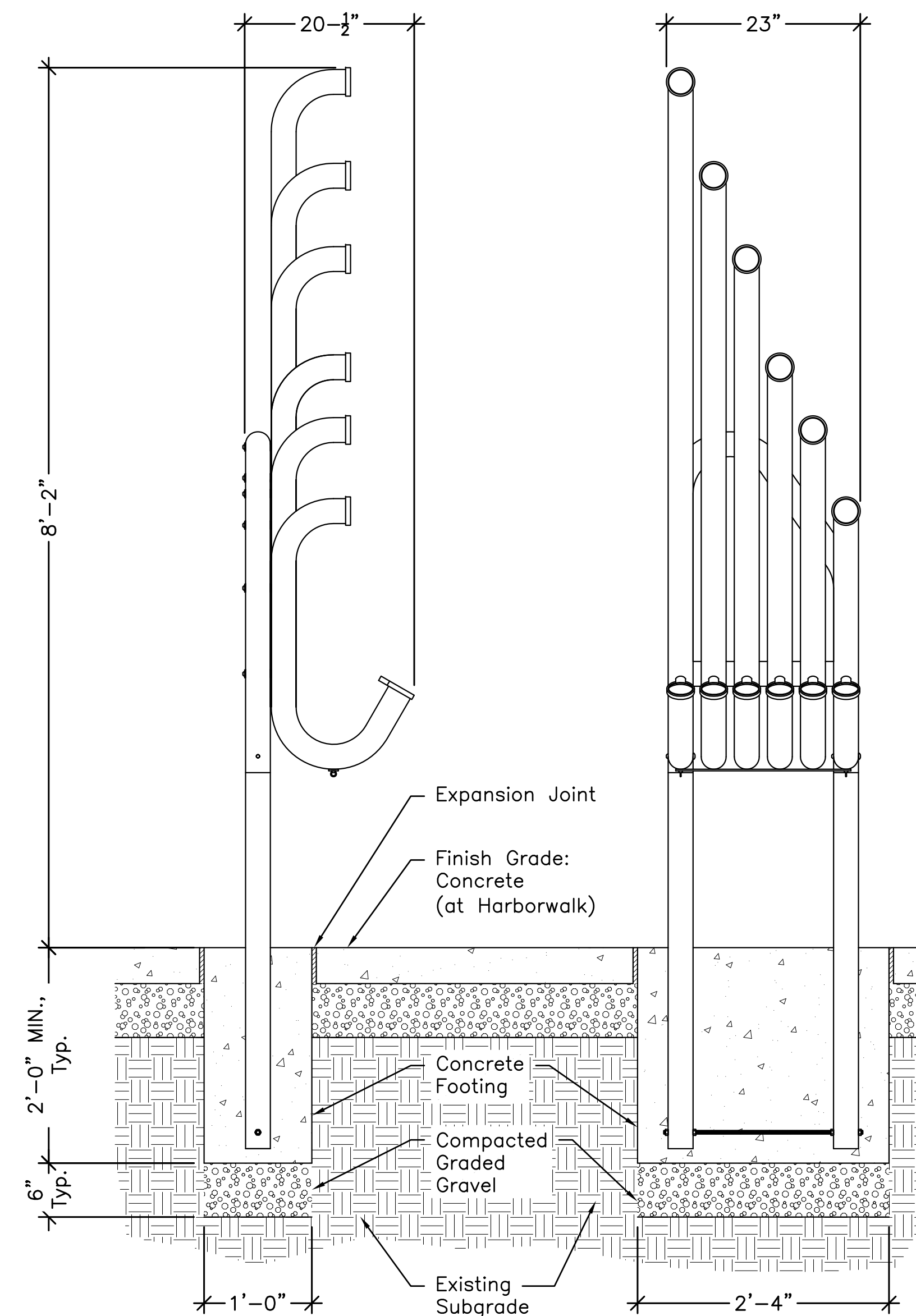


NOTES:

1. Musical instrument to be "Cajon" Drum by Percussion Play (Petersfield, Hampshire GU31 4DX. 1-866-882-9170. www.percussionplay.com)
2. Installation to be completed in accordance with Manufacturer's Specifications.

3 'CAJON' DRUM

Scale: 1" = 1'-0"

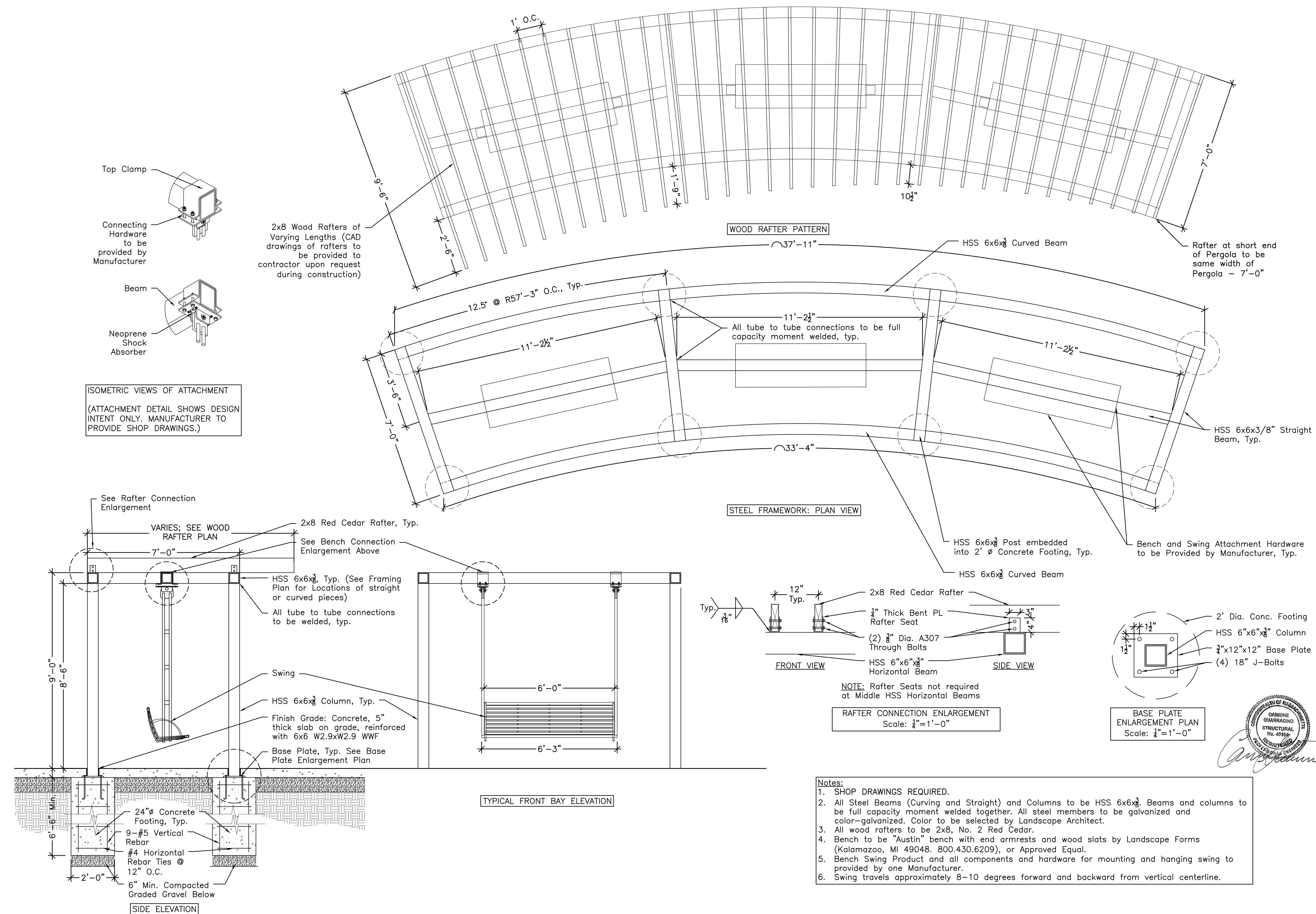


NOTES:

1. Musical instrument to be "Pentatonic Tembos" (Aerophones) by Percussion Play (Petersfield, Hampshire GU31 4DX. 1-866-882-9170. www.percussionplay.com)
2. Installation to be completed in accordance with Manufacturer's Specifications.

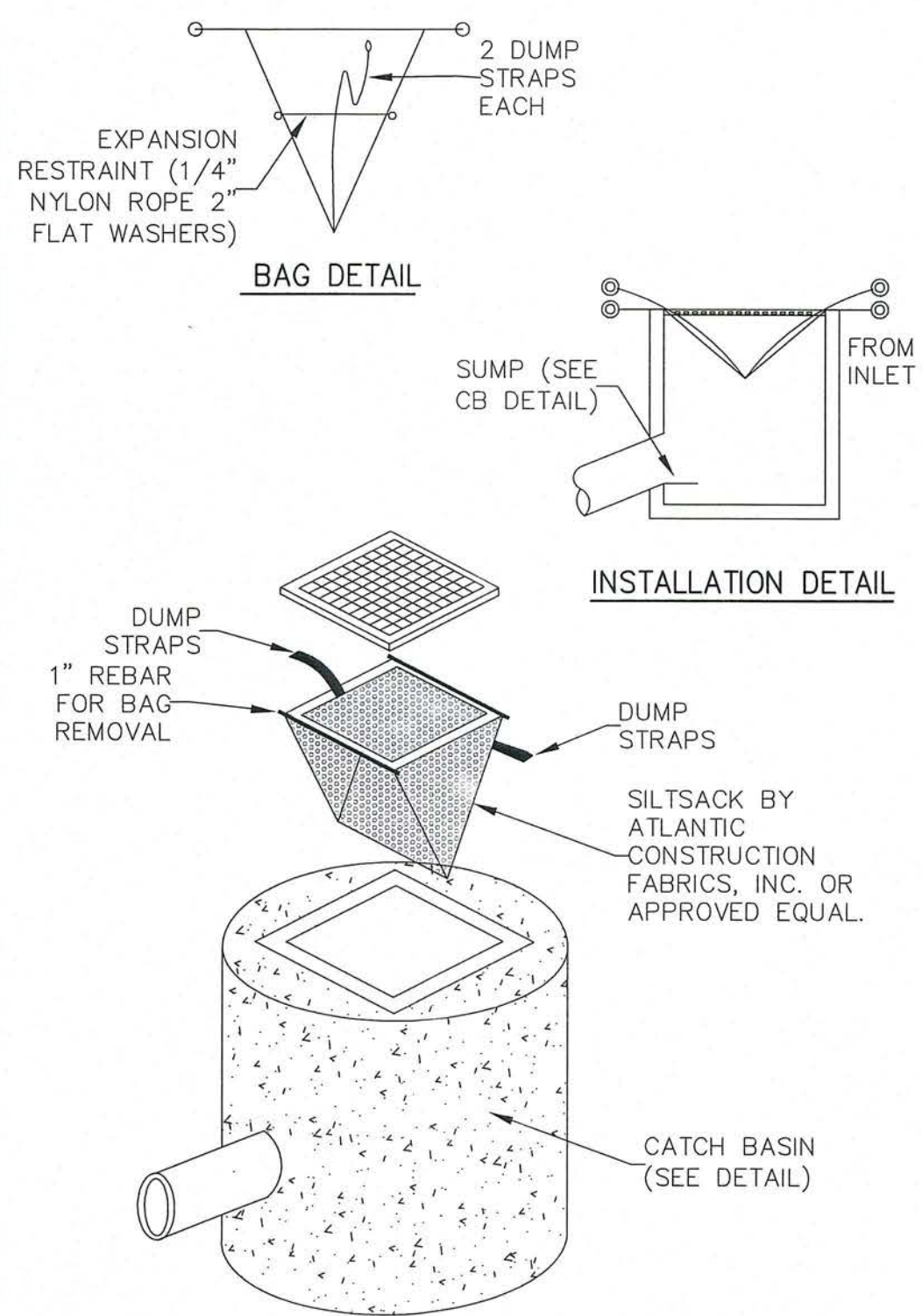
4 MUSICAL INSTRUMENT: "PENTATONIC TEMBOS"

Scale: 1" = 1'-0"

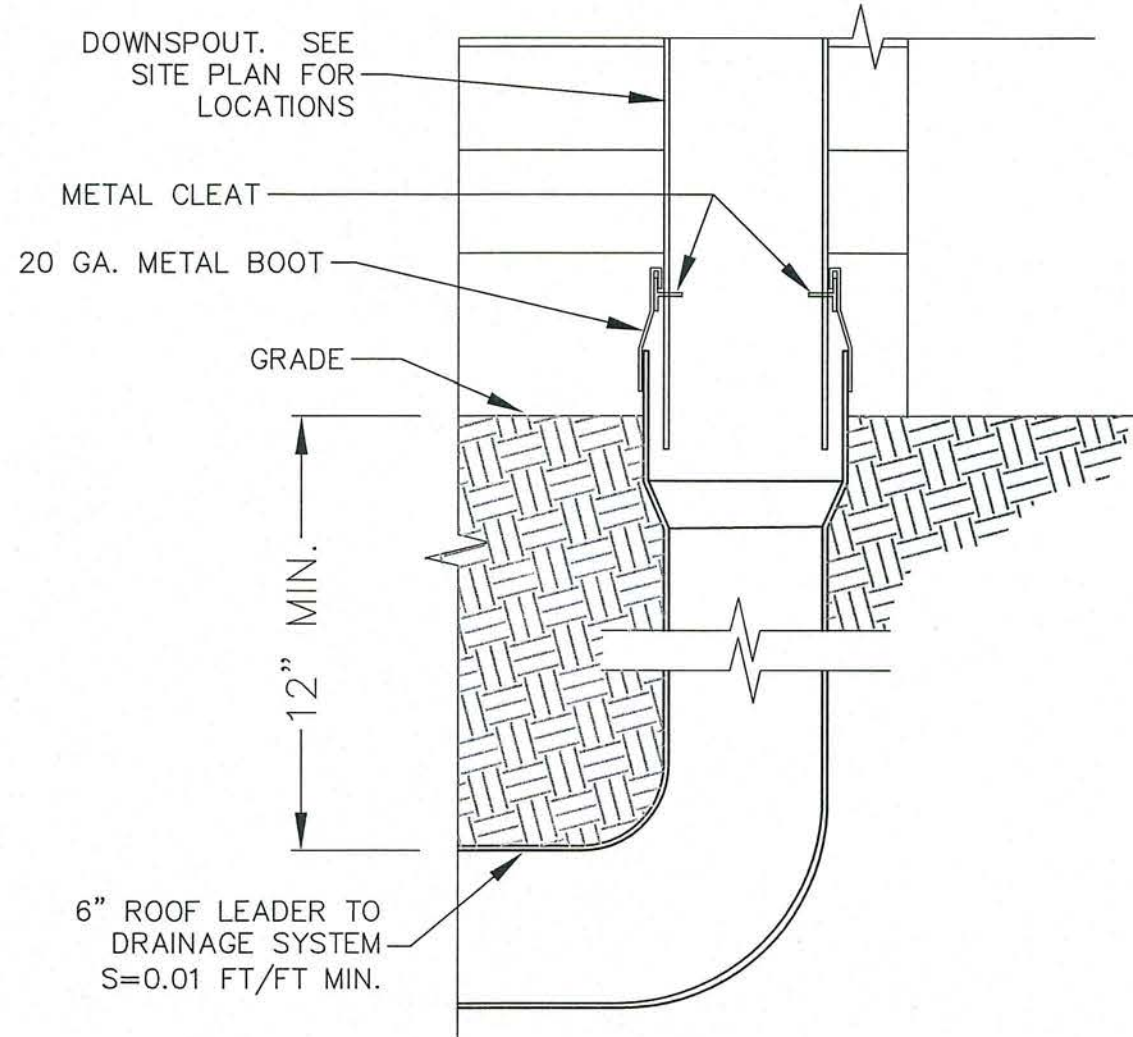


3-BAY PERGOLA WITH SWINGS – ADD. ALTERNATE #1
Scale: 1/2" = 1'-0" or as noted

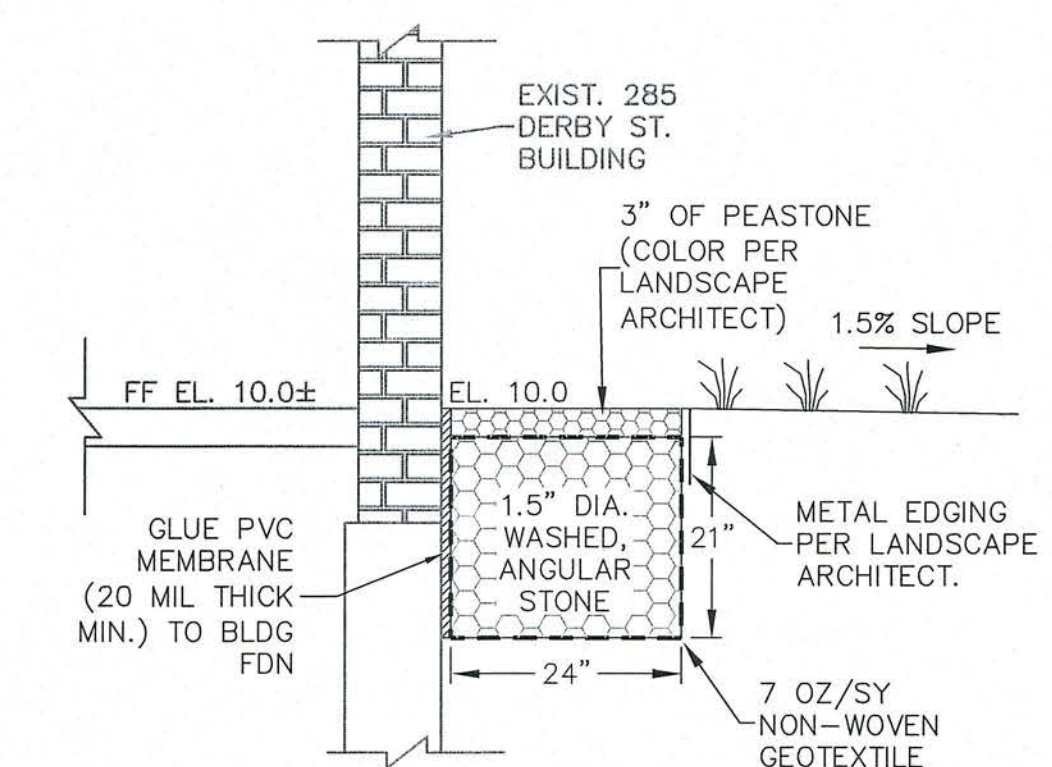
24 THORNDIKE STREET | CAMBRIDGE MA 02141
phone 617.945.9760 | www.cbaland.com | cbg@cbaland.com



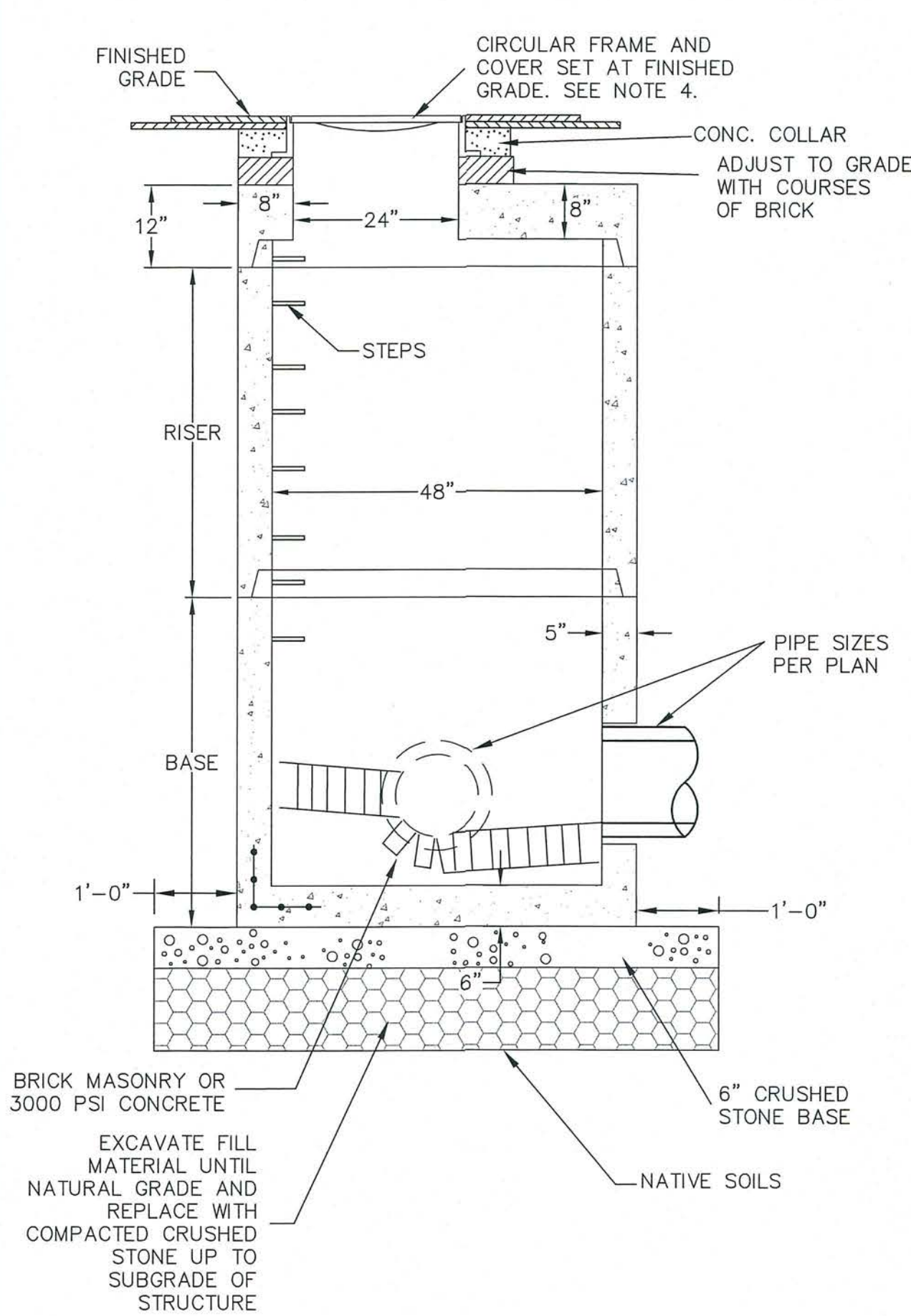
SILT SACK
SCALE: N.T.S.



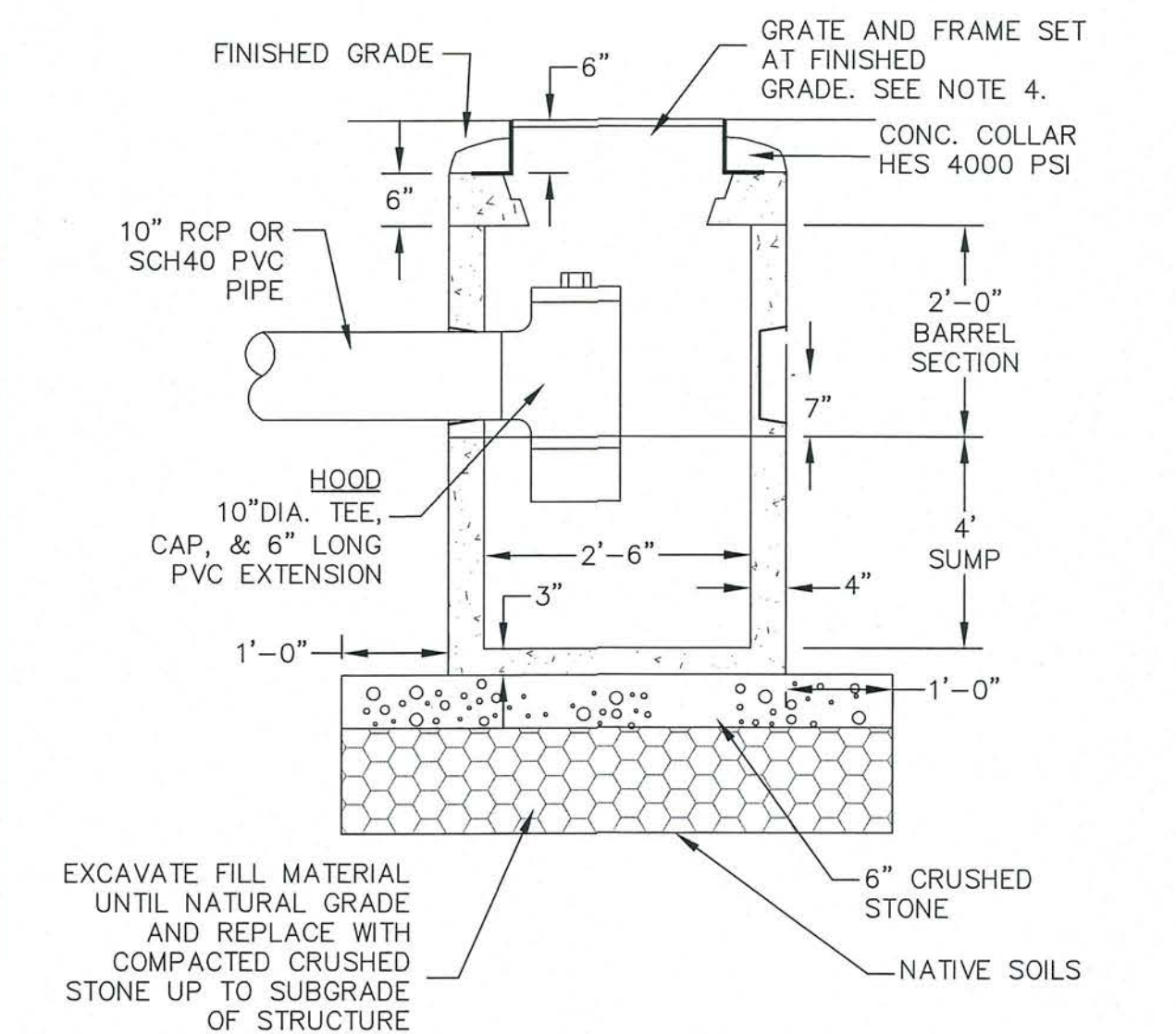
TYPICAL DOWNSPOUT CONNECTION DETAIL
SCALE: N.T.S.



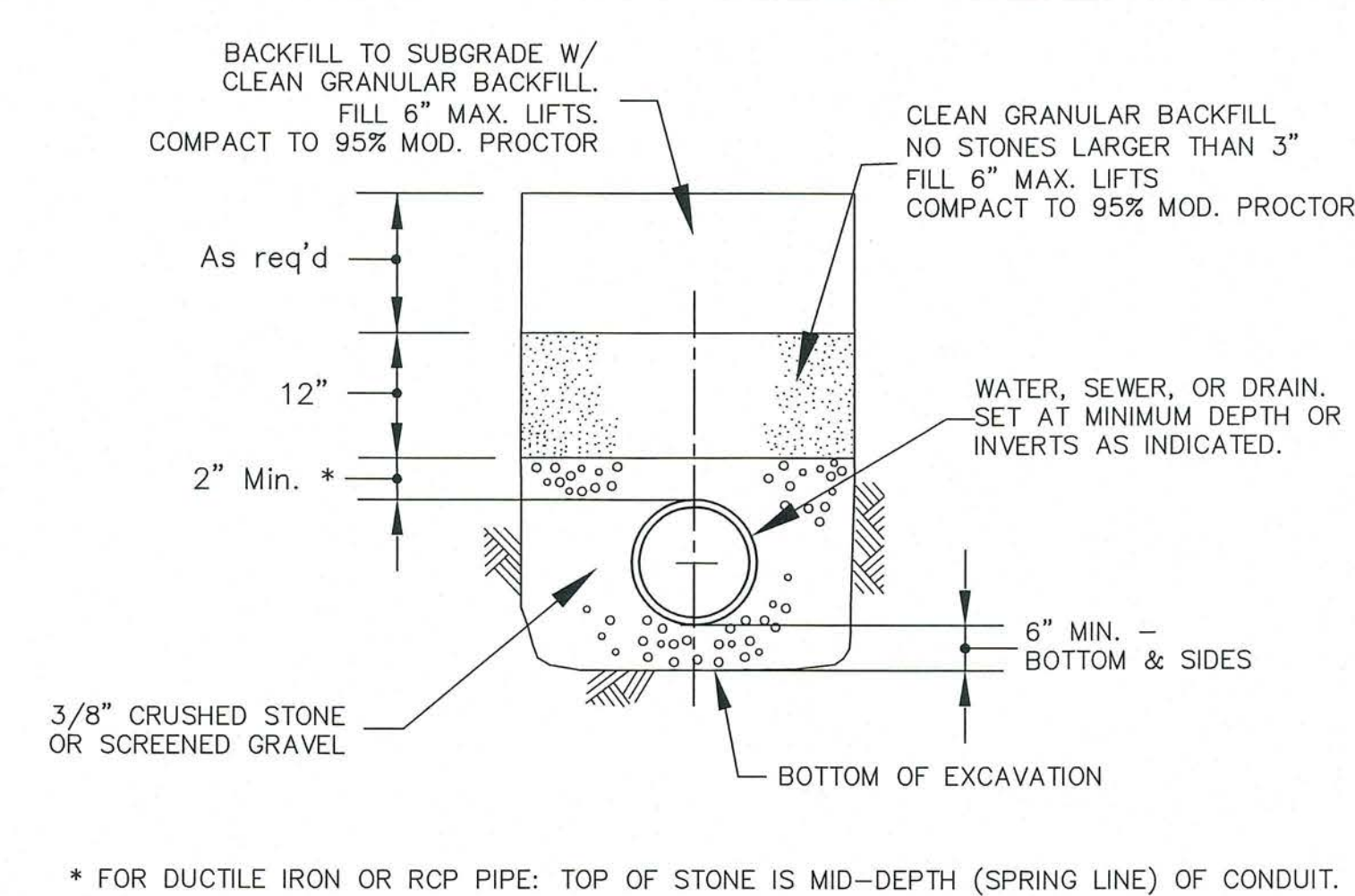
CRUSHED STONE DRIP EDGE
SCALE: N.T.S.



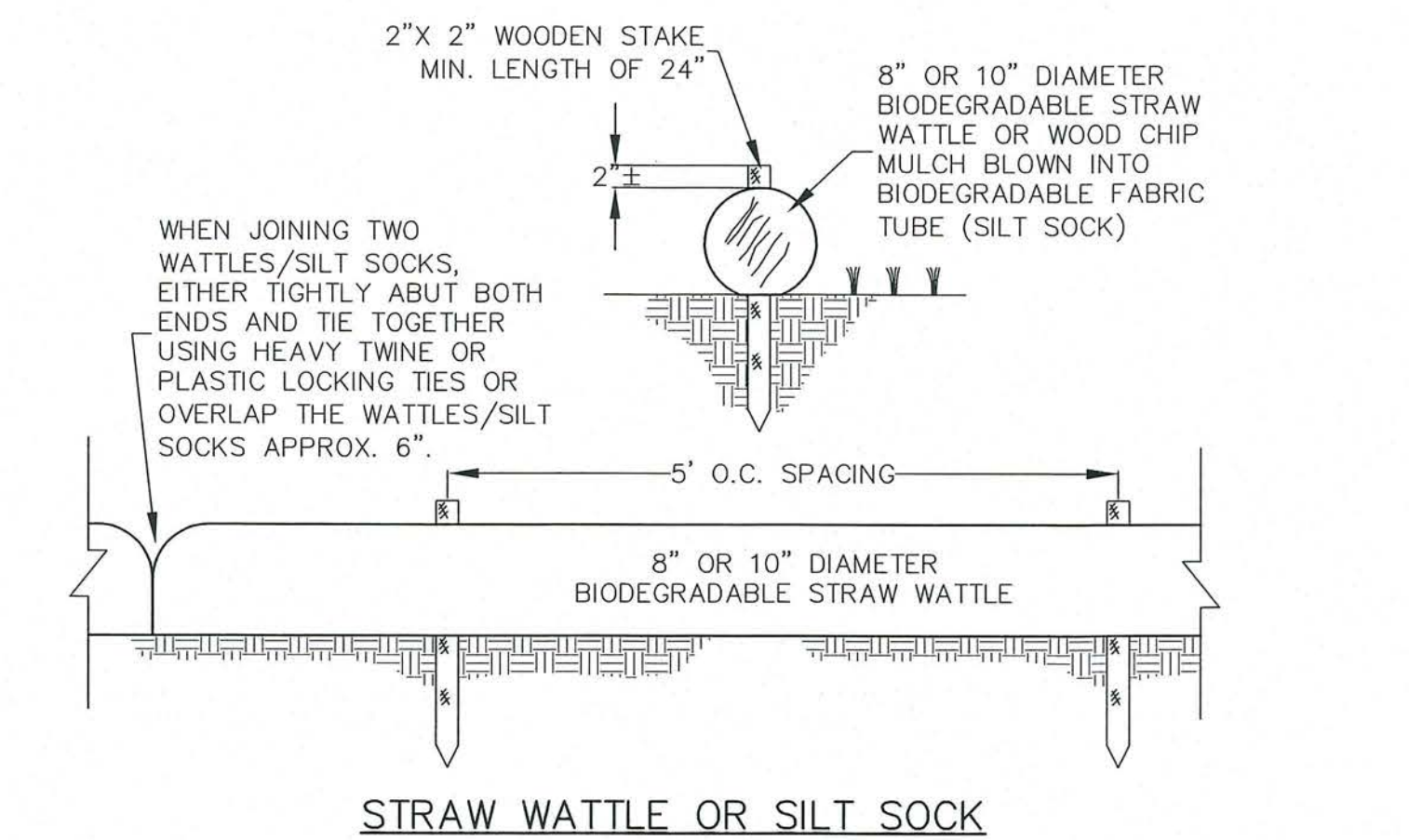
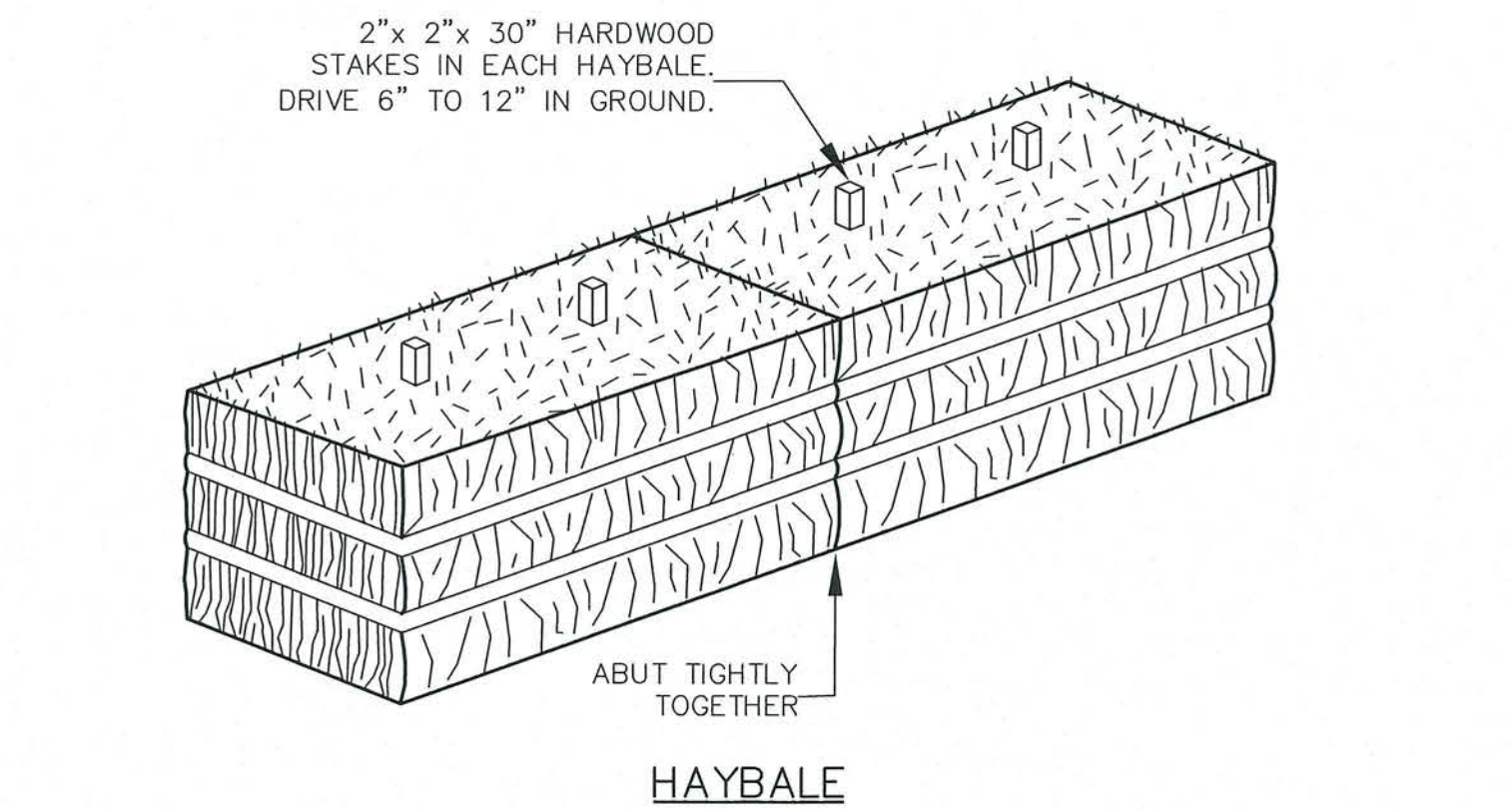
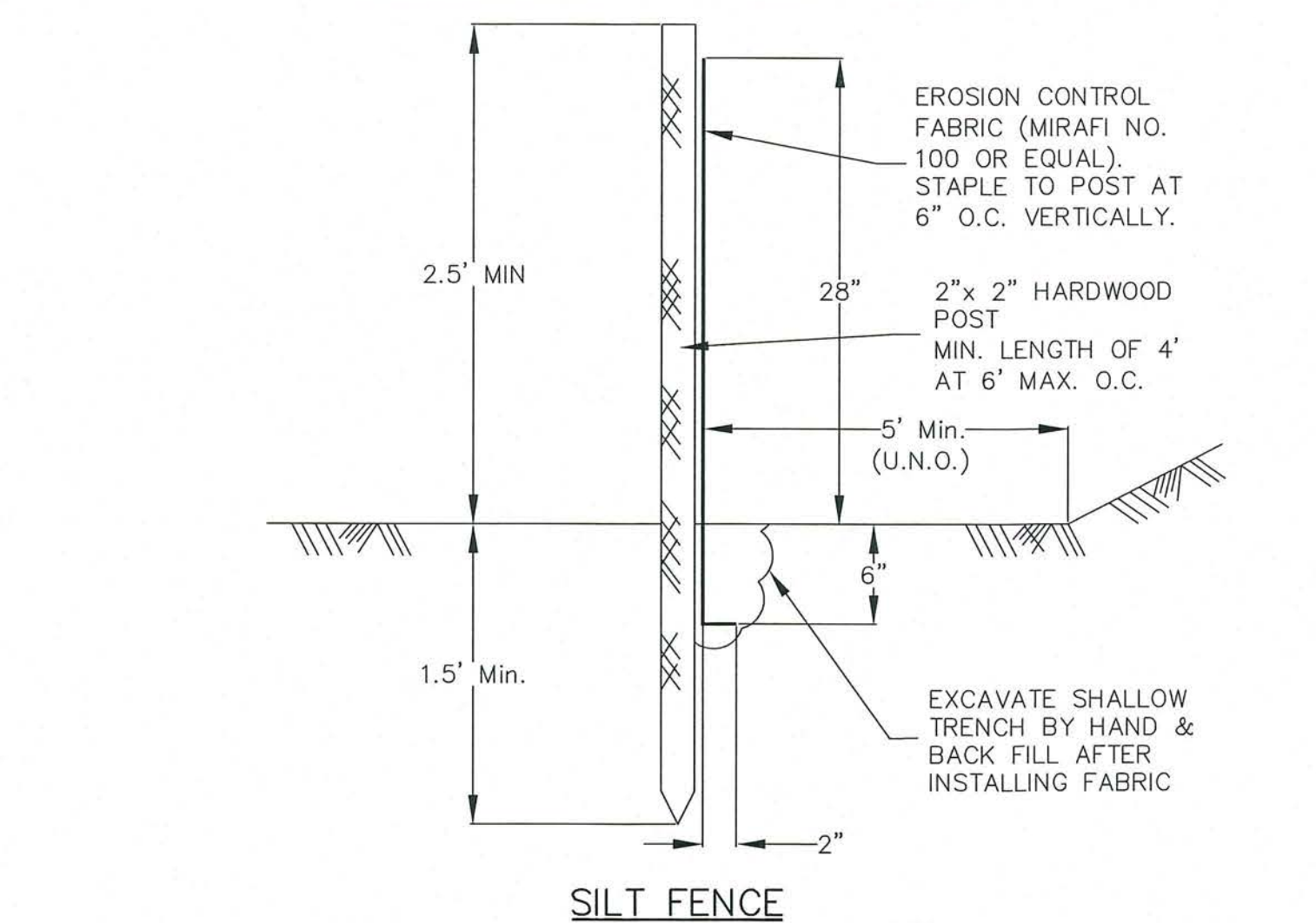
TYPICAL 4"Ø PRECAST DRAIN MANHOLE
SCALE: N.T.S.



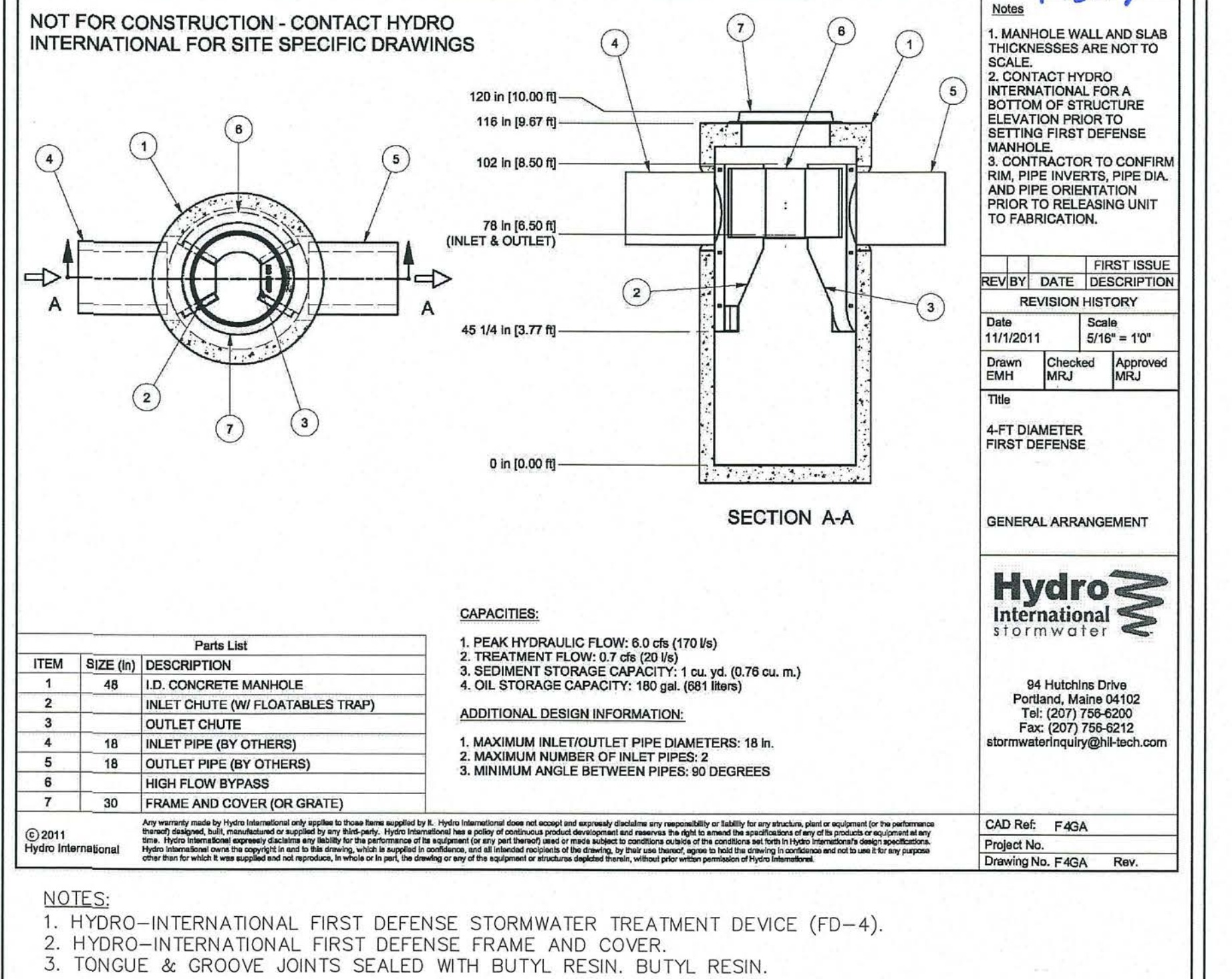
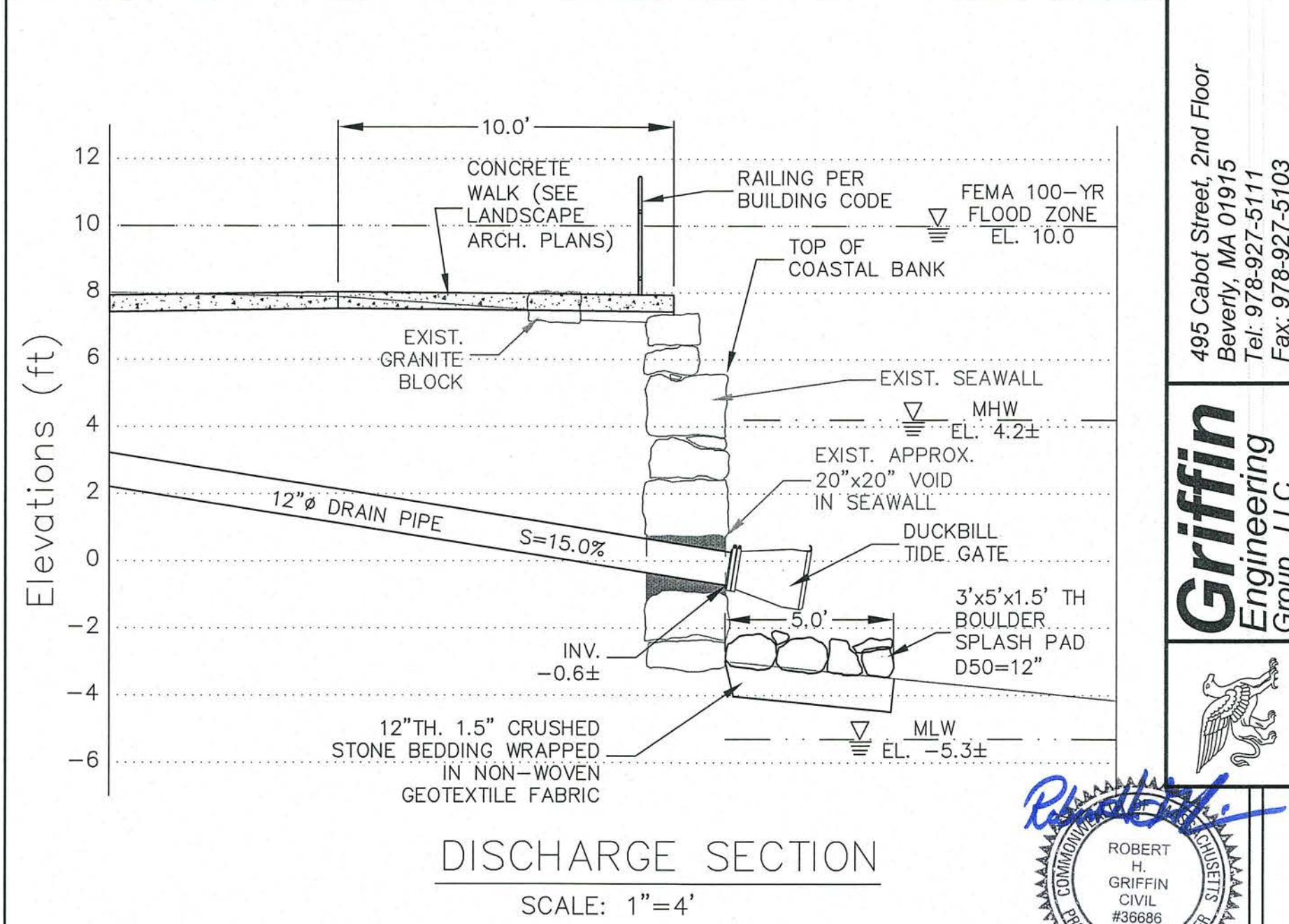
30"Ø PRECAST CATCH BASIN
SCALE: N.T.S.



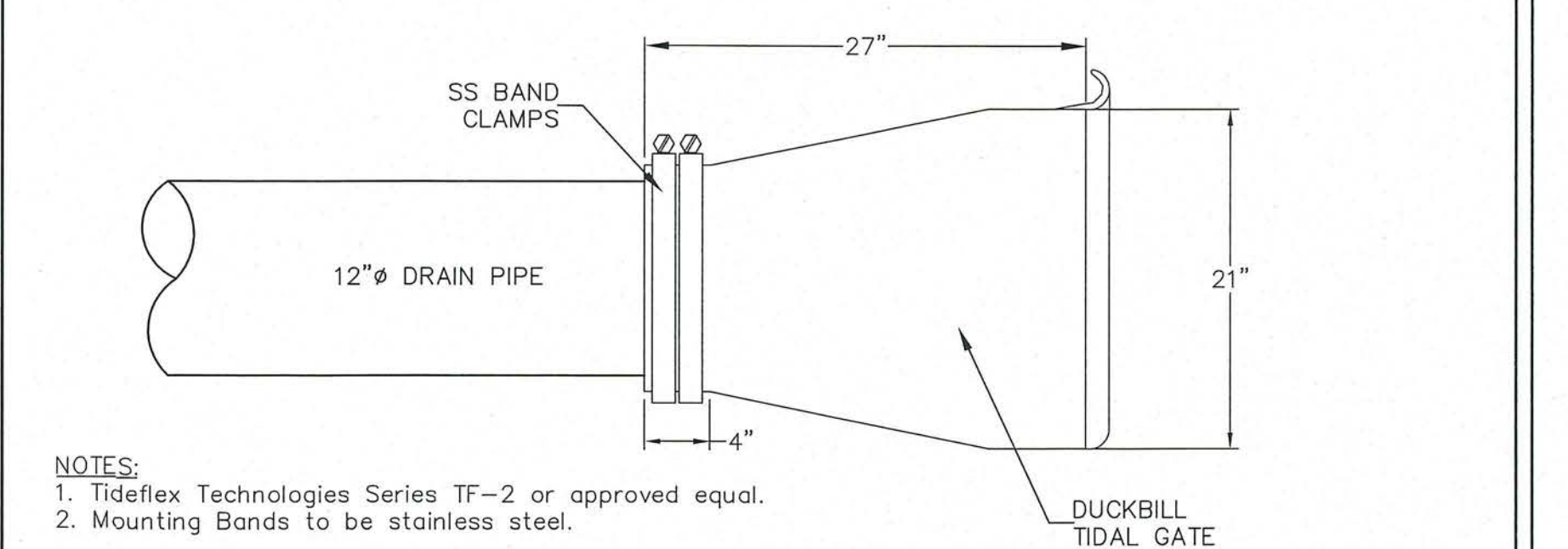
TYPICAL PIPE BEDDING SECTION
SCALE: N.T.S.



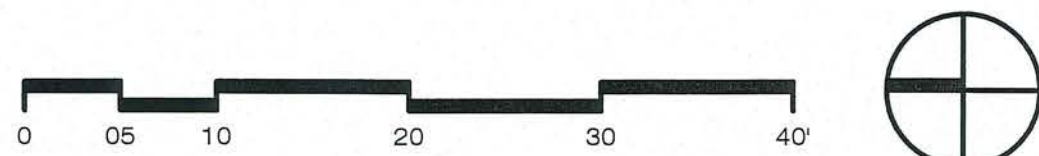
EROSION CONTROL
SCALE: N.T.S.



WATER QUALITY STRUCTURE (DMH 4)
SCALE: N.T.S.



DUCKBILL TIDAL GATE
SCALE: N.T.S.



Griffin Engineering Group, LLC
495 Cabot Street, 2nd Floor
Beverly, MA 01915
Tel: 978-927-5111
Fax: 978-927-5103



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landscape architecture
urban design
master planning

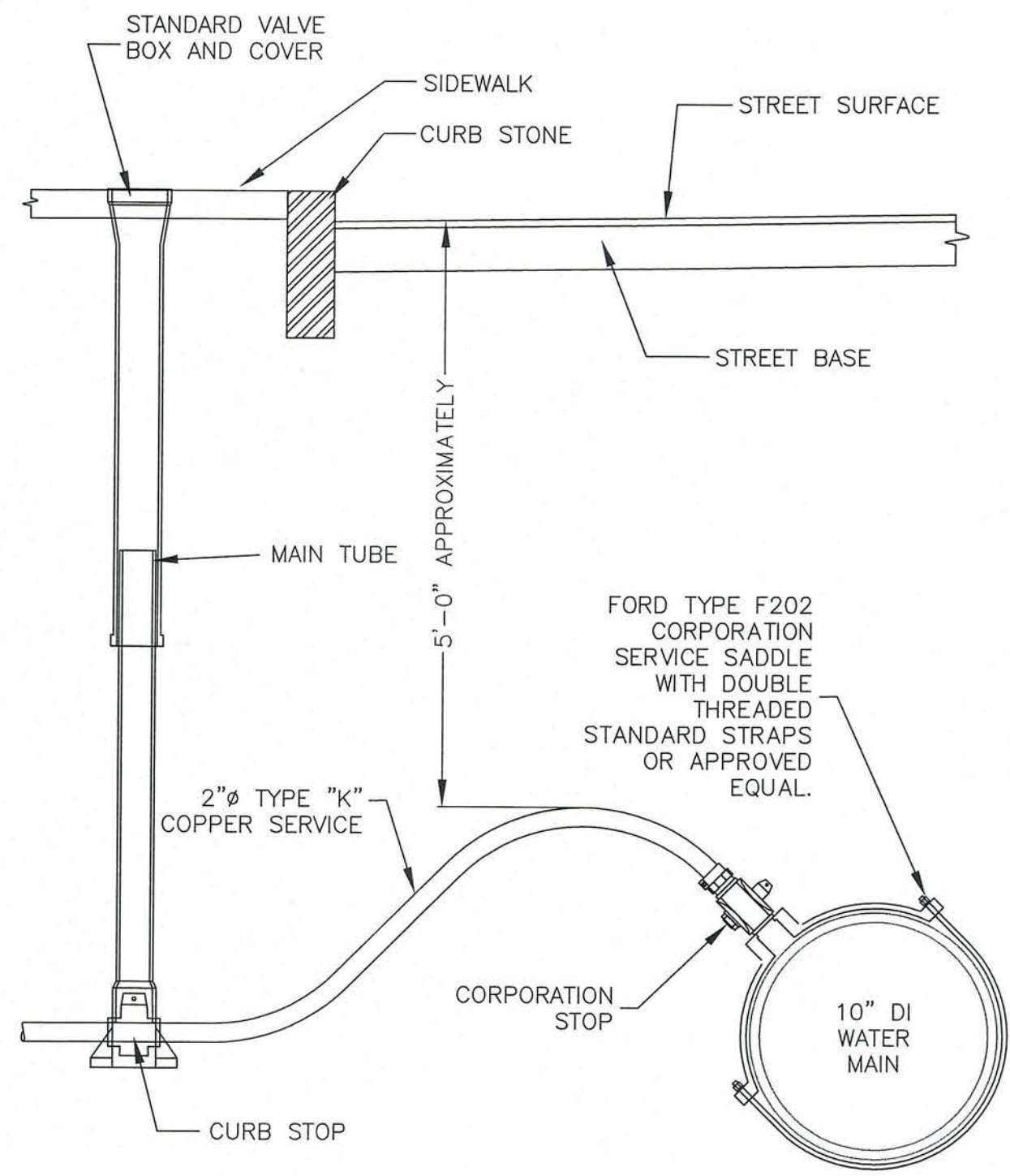
DERBY STREET PARK

289 Derby Street, Salem, MA

DRAINAGE & WATER UTILITIES DETAIL

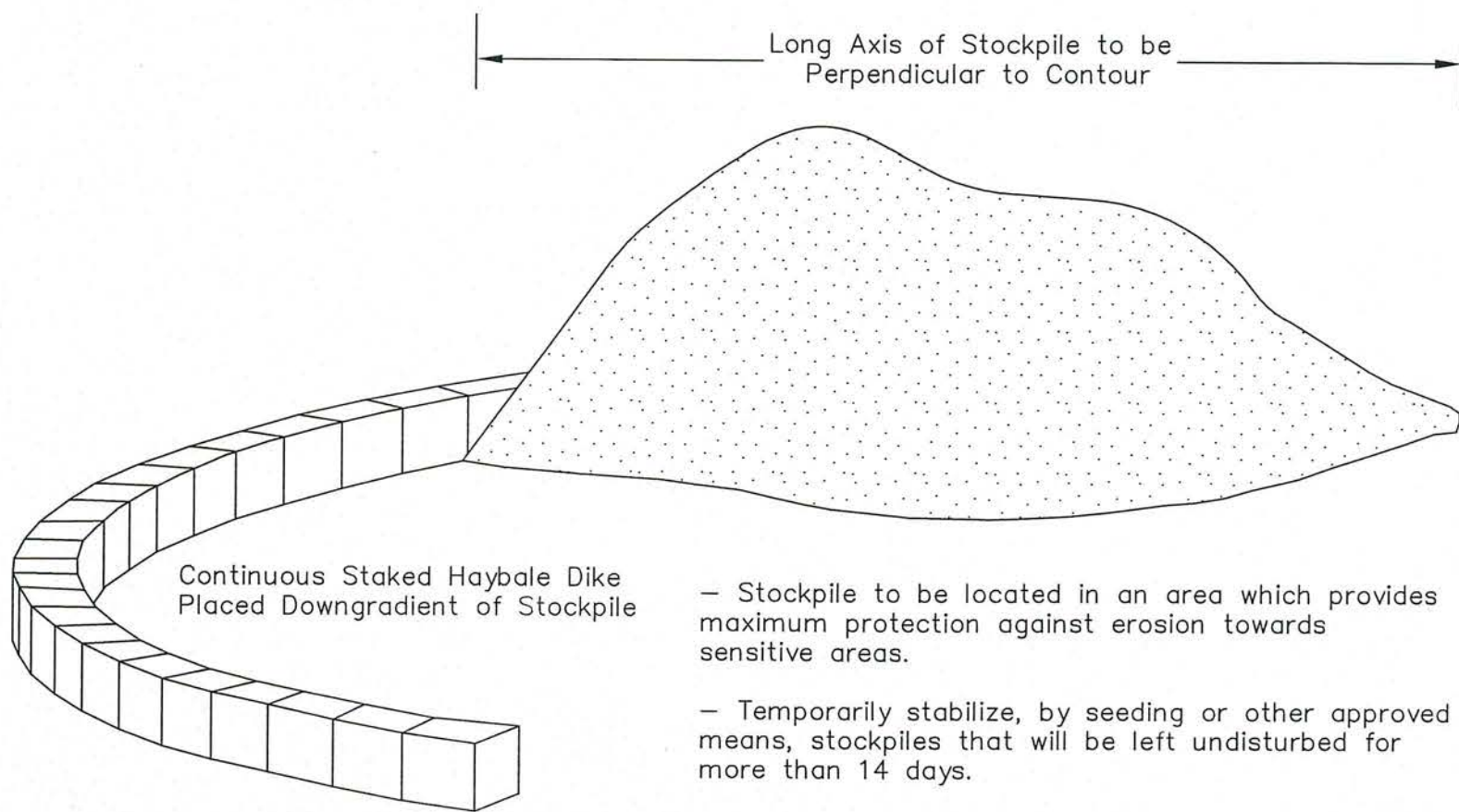
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SCALE: AS NOTED
FILE:
DWN BY:
CKD BY:
PROJ. #: 1709

C2

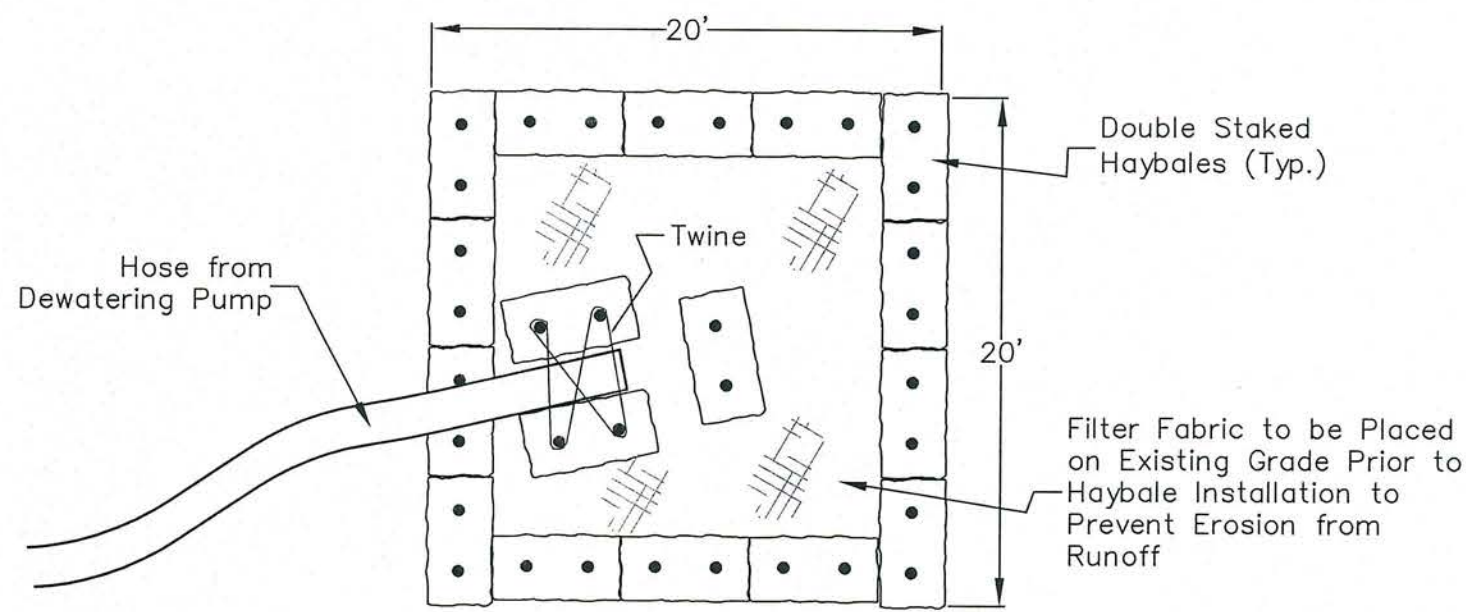


REFERENCE:
1) ALL CORPORATIONS SHALL BE SUBJECT TO A SUSTAINED HYDRAULIC PRESSURE OF 200 PSI.

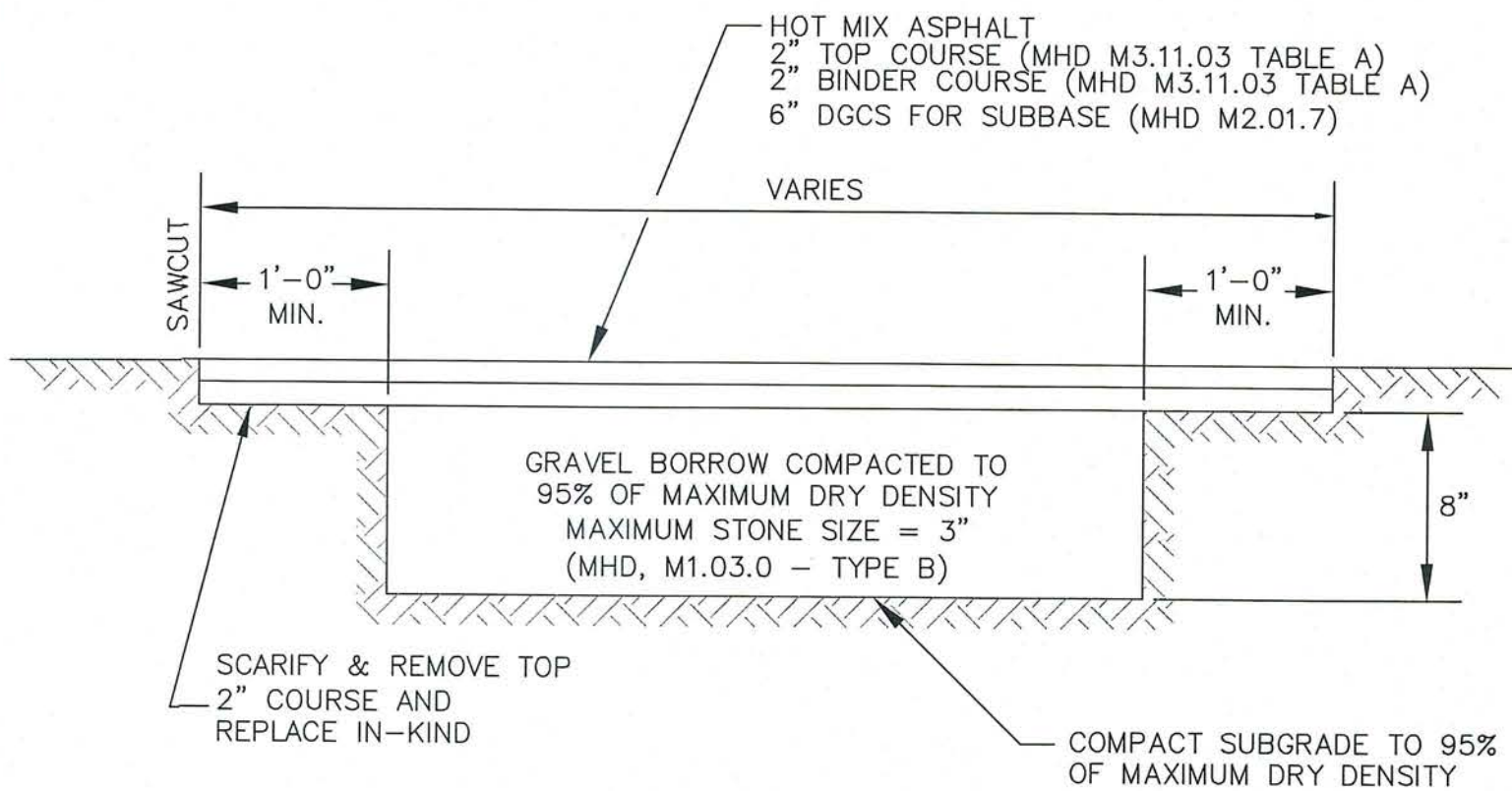
TYPICAL WATER CONNECTION FOR 2" SERVICE PIPE
SCALE: N.T.S.



TEMPORARY STOCKPILE
SCALE: N.T.S.

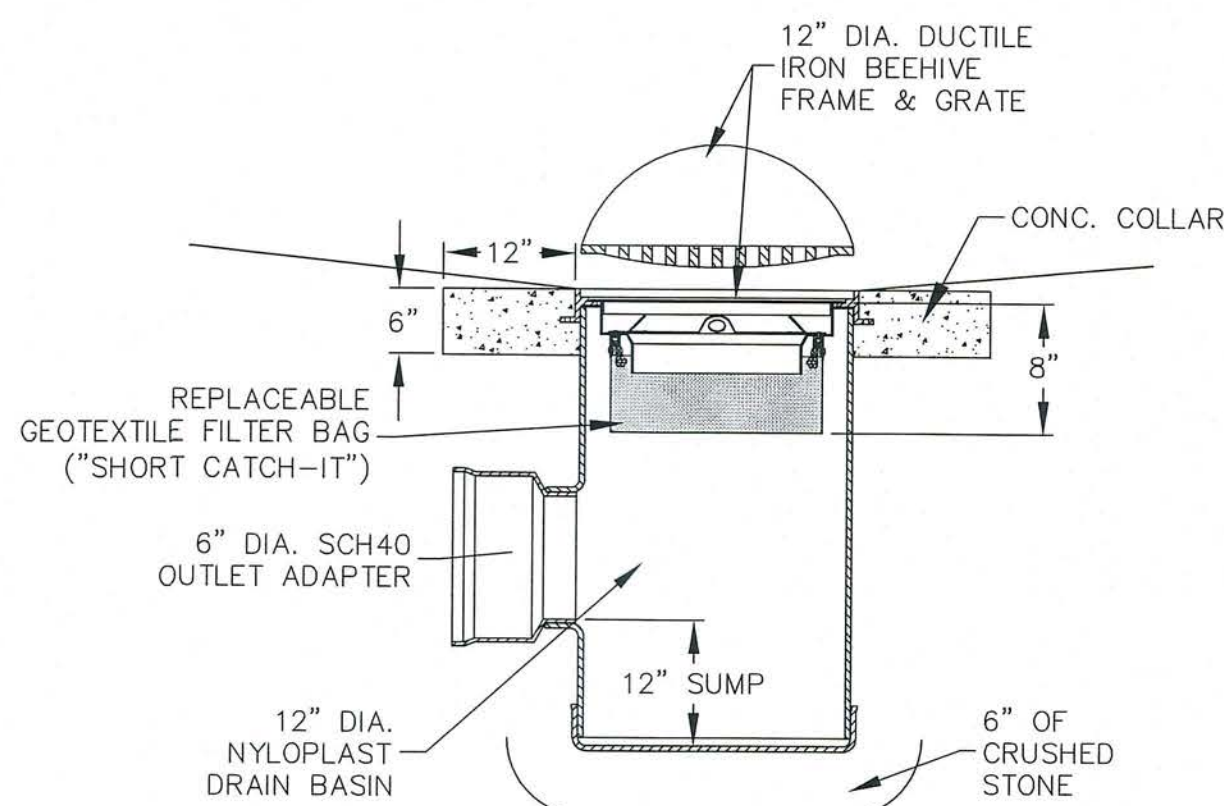


DEWATERING DETAIL (If Applicable)
SCALE: N.T.S.



- NOTES:
- 1) EXCAVATABLE FLOWABLE FILL WILL BE REQUIRED IN THE TRENCH WITHIN THE LIMITS OF DERBY STREET AS DIRECTED BY THE CITY OF SALEM ENGINEERING DEPARTMENT.
 - 2) CONTRACTOR TO OBTAIN STREET OPENING PERMIT FROM CITY OF SALEM.
 - 3) PAVEMENT RESTORATION SHALL BE PERFORMED BY USING INFRARED PAVEMENT REPAIR METHODS.
 - 4) DERBY STREET WAS RECENTLY PAVED IN JULY 2017. CITY OF SALEM WILL REQUIRE REPAVING THE FULL WIDTH OF THE ROADWAY FOR A SPECIFIC LENGTH DETERMINED BY THE CITY OF SALEM ENGINEERING DEPARTMENT. PAVEMENT MARKINGS SHALL BE RESTORED TO MATCH PRE-DEVELOPMENT CONDITIONS. FOR THE PURPOSE OF BID PREPARATION, CONSTRUCTOR SHALL ASSUME LENGTH TO BE 15-FT (x FULL WIDTH OF DERBY STREET PAVEMENT = 95 SY).
 - 5) CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STREET PATCH FOR ONE YEAR FROM COMPLETION OF PARK.

TYPICAL HOT MIX ASPHALT PAVEMENT RESTORATION
SCALE: N.T.S.



AREA DRAIN DETAIL
SCALE: N.T.S.



495 Cabot Street, 2nd Floor
Beverly, MA 01915
Tel: 978-927-5111
Fax: 978-927-5103

Griffin
Engineering
Group, LLC



CBA | Landscape Architects LLC

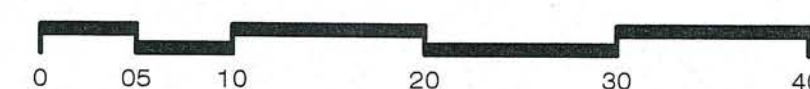
24 THORNDIKE STREET | CAMBRIDGE, MA 02141
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landscape architecture
urban design
master planning

DERBY STREET PARK

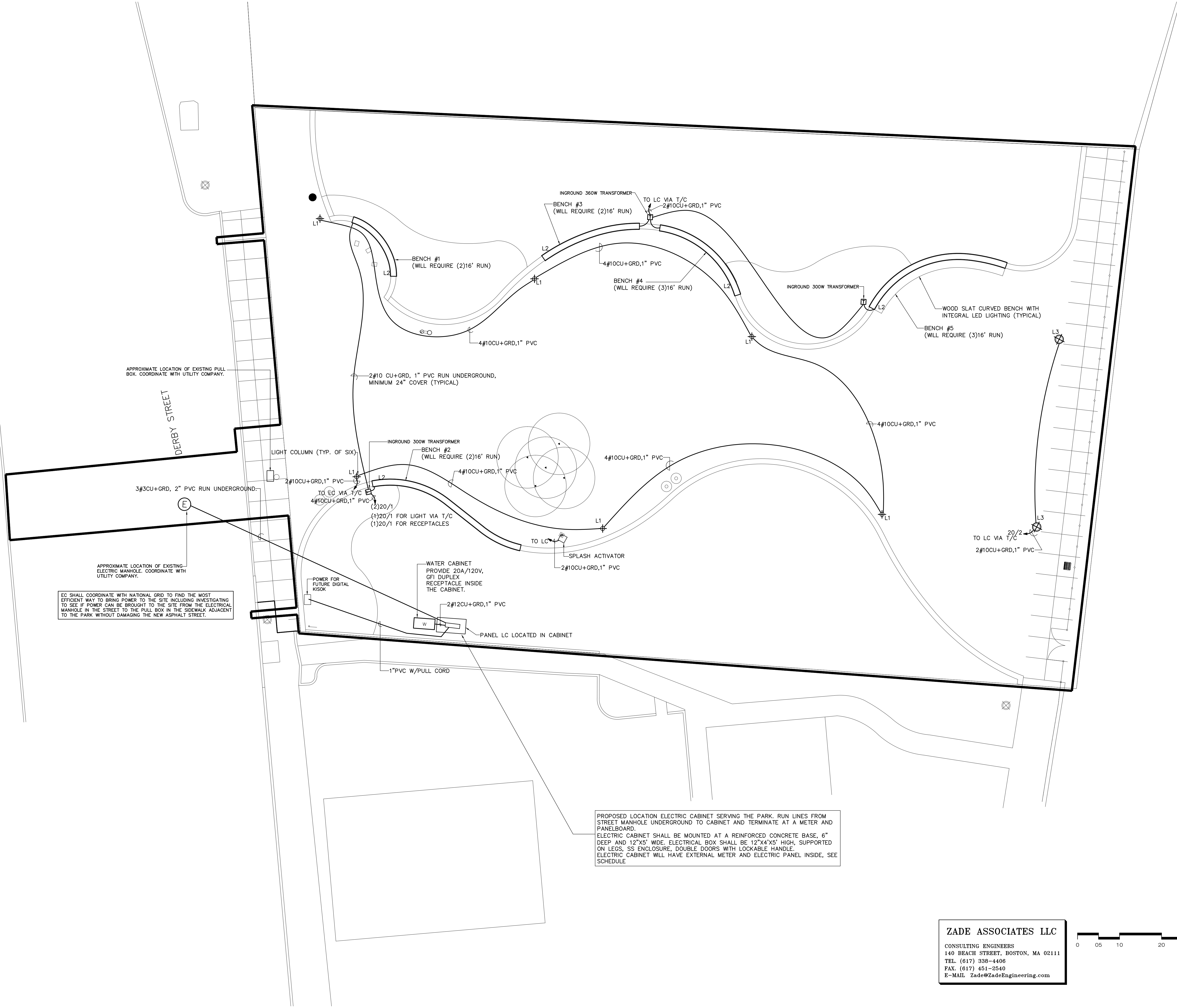
289 Derby Street, Salem, MA

DRAINAGE & WATER UTILITIES DETAIL II

DATE: 09-15-2017
SCALE: AS NOTED
FILE:
DWN BY:
CKD BY:
PROJ. #: 1709



C3



DERBY STREET PARK

289 Derby Street, Salem, MA

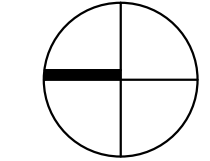
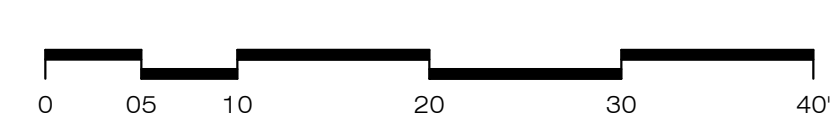
ELECTRICAL PLAN

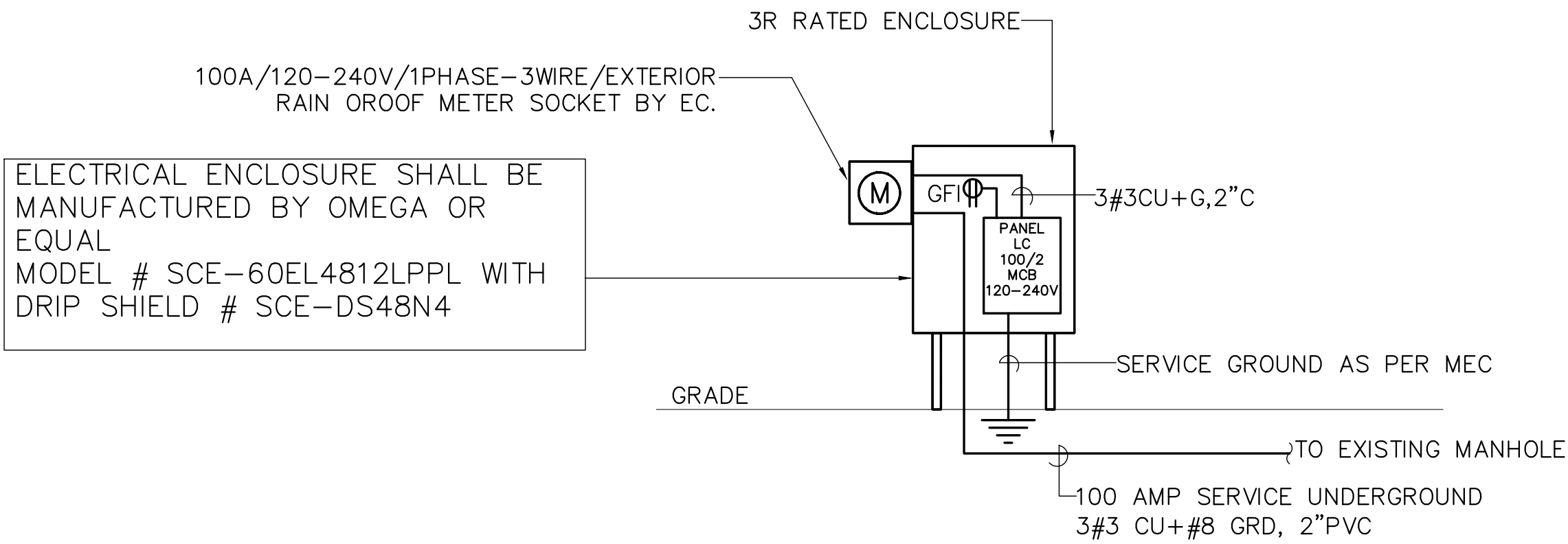
DATE: 09-15-2017
SCALE: 1"=10'-0"
FILE:
DWN BY: MP
CKD BY: MZ
PROJ. #: 1709



E1.1

ZADE ASSOCIATES LLC
CONSULTING ENGINEERS
140 BEACH STREET, BOSTON, MA 02111
TEL. (617) 338-4406
FAX. (617) 451-2540
E-MAIL Zade@ZadeEngineering.com



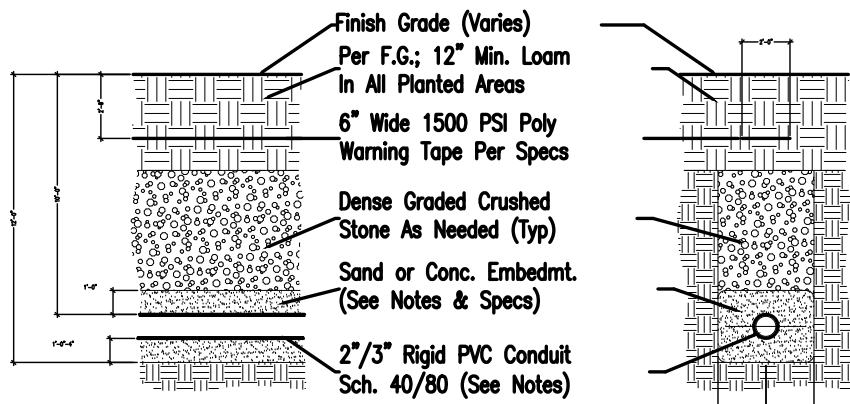


POWER RISER DIAGRAM
NTS

PANEL SCHEDULE							
ITEM	VOLT/PHS/W	MLO	MCB	CIRC	F:Flush S:Surf.	P:Plug B:Bolt	BRANCH BREAKERS SPR=SPARE SPC=SPACE
PANEL LC	240-120/1/3	-	100	20	-	-	(1)20/2, (10)20/1, (2) 20/1 GFI

FIXTURE SCHEDULE					
TYPE	MANUFACTURER	CATALOG NUMBER	VOLT	LAMP	DESCRIPTION
L1	FORMS+SURFACES	LPLCO-512	120	32W LED	LIGHT COLUMN WITH GFI OUTLET
L2	Q TRAN LED	eQ-D3-TL-3800K-5.0 (16' LONG)	120	5.0W/FT LED	ROPE LED LIGHT ALONG THE EDGE OF BENCH
L3	KING LUMINAIRE STRESSCRETE GROUP	FIXTURE # K134-EAR-II-150(MOG)-MH-208-K42 POLE # KSSFF-12-DR-BA	208	150W/MH	HARBOR POLE LIGHT WITH "CITY OF SALEM" LOGO
-					

FOR TYPE L2 ROPE LED LIGHT
INGROUND TRANSFORMER PRIMARY VOLTAGE SHALL BE 120V.
INGROUND TRANSFORMER SHALL BE Q-SET1 OR Q-SET2 AS
REQUIRED.
PROVIDE Q-VAULT-5 WEATHER PROOF HOUSING AS
REQUIRED.



- NOTES:
- All Conduit installation to meet all applicable State, Local, and Federal Codes, and all City of Chelsea Standards.
 - Under planted areas and rubber surfaces, Sch.40 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
Scale: 3/4" = 1'-0"

EXACT LOCATION AND TYPE OF ALL LIGHTING FIXTURES; MOUNTING HEIGHTS AND MOUNTING DETAILS SHALL BE COORDINATED WITH ARCHITECTURAL SITE PLAN AND ANY CONFLICTS SHALL BE BROUGHT TO ARCHITECT'S ATTENTION PRIOR TO ANY WORK DONE. OBTAIN LATEST COPY OF THE SITE PLAN FROM ARCHITECT PRIOR TO ANY WORK DONE.

ELECTRICAL SPECIFICATIONS

1.1 General

- The General Conditions and Drawings issued for this Project shall be considered as part of the Electrical Specifications.
- The term "This Contractor" as used under this Section and wherever used on the Drawings shall mean the Electrical Contractor.

1.2 Scope of Work

- The work under this Specification includes the furnishing of all labor and material as specified herein and as shown on the Drawings necessary to install a complete and ready for operation. Manufacturer's catalogue numbers are shown for reference purposes only. They are meant to provide a general description of the design and quality of materials required. Equivalent products by other manufacturers will be considered.

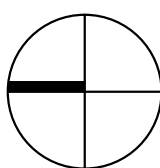
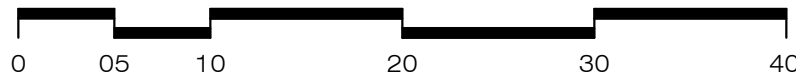
1.3 Codes and Specifications

- The work shall be conducted in accordance with the latest rules and regulations of the State of MASSACHUSETTS and the local codes as most recently issued, OSHA codes, National Electrical Codes and NFPA.
- All exposed wiring shall be in electric metallic tubing. All concealed wiring shall be in accordance with local codes.
- All branch circuit conductors shall be copper, minimum #12 AWG size THHN or THWH as required, 600V rated.
- All feeder conductors shall be copper, AWG size as noted XHHW insulation, 600V.

1.4 Coordination of Work

- The Contractor shall schedule and coordinate his work with all trades involved to insure proper installation and operation.
- The Contract Drawings are diagrammatic only and indicate the extent, general locations and arrangement of the piping and wiring of equipment. The exact locations shall be coordinated with Architectural Drawings and Documents of other trades.
- This Contractor shall verify fixture mounting and location against plans, elevations and detail drawings. Exact location of all fixtures shall be confirmed with owner's representative prior to rough-in.
- Submit Shop Drawings and product data within thirty (30) days after award of the Contract. Check, stamp and mark with project name submittals before transmitting to Architect. Indicate deviations from Contract Documents.
- This Contractor shall give notices, file plans, obtain permits and licenses, pay fees and back charges, and obtain the necessary approvals from authorities that have jurisdiction.
- Material and equipment shall be UL, ASME and AGA approved for intended service.
- Guarantee work in writing for one year from date of final acceptance. Repair or replace defective materials or installation at no cost to Owner. Correct damage caused in making necessary repairs and replacements under guarantee at no cost to the Owner.
- Submit guarantee to Architect before final payment.

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DATE:	09-15-2017
SCALE:	NTS
FILE:	
DWN BY:	MP
CKD BY:	MZ
PROJ. # :	1709

