

# Miriam & Sidney Stoneman Playground Improvements

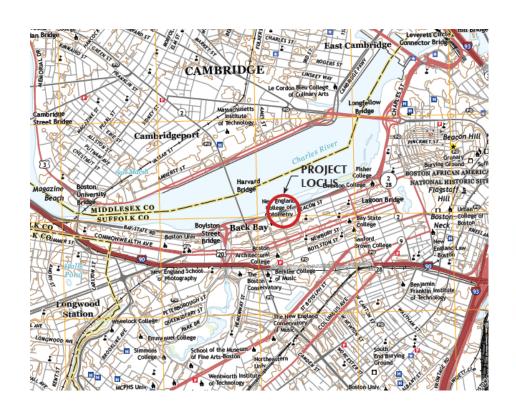


Boston Landmarks Commission December 10, 2019



## **Project Background**

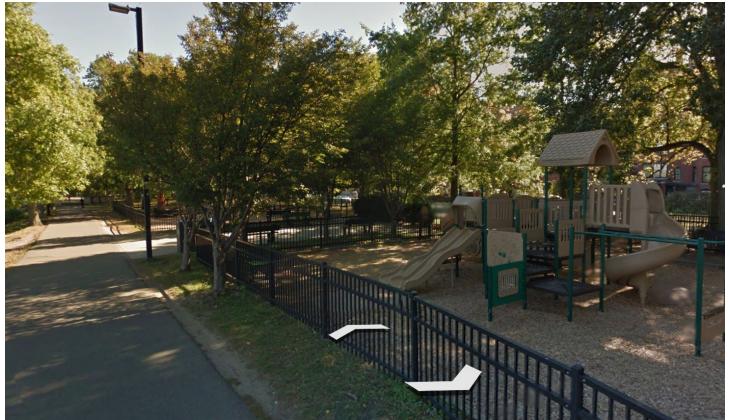
- Playground was built in 2001 with play areas for ages 2-5 and 5-12
- In 2018, it was determined that playground upgrades were warranted



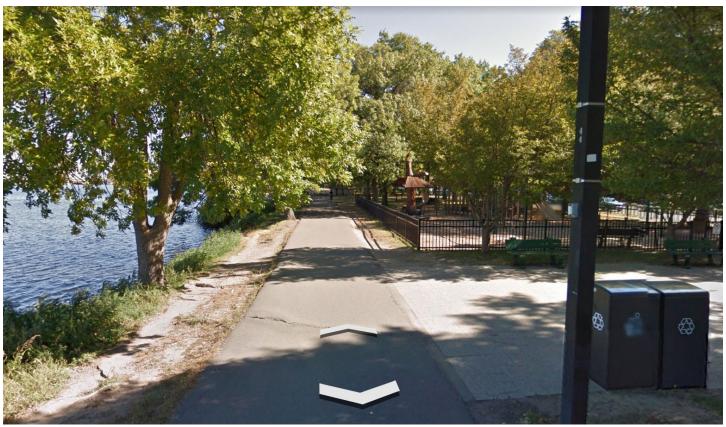




View from the east of the Project Site looking southwest



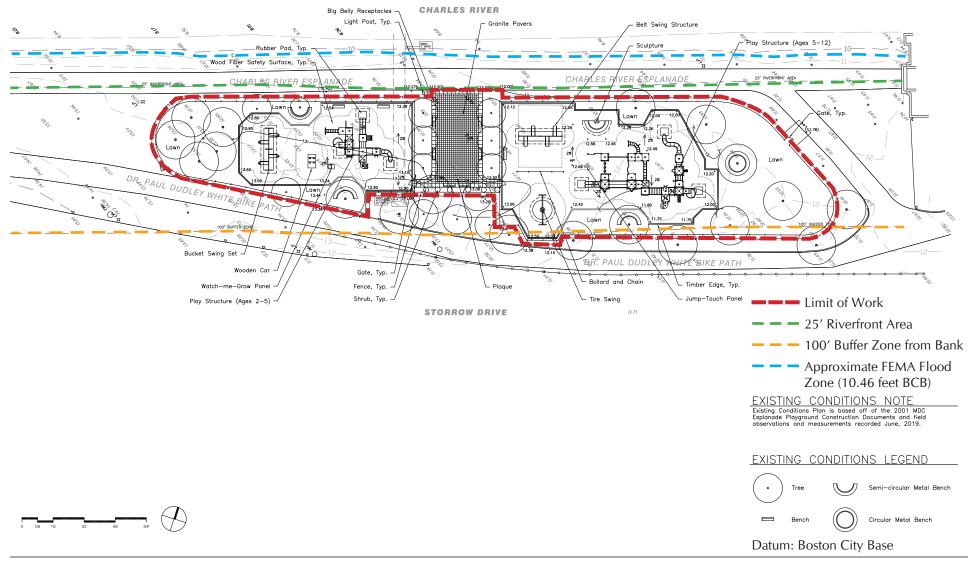
View of the Project Site looking east from the Charles River Esplanade



View of the entry plaza looking east from the Charles River Esplanade



View of the Project Site and Dr. Paul Dudley White Bike Path looking north from Storrow Drive



Boston, Massachusetts

Wetland Resource Areas Source: Fort Point Associates, Inc., 2019



## **Project Objectives**

- 1. Replace **old**, **worn-out** equipment
- 2. Improve equipment accessibility
- Improve equipment play value and interactivity
- Incorporate nature- and music-themed equipment to create a sense of place





## **Project Partners**

- Department of Conservation and Recreation
- CBA Landscape Architects
- Fort Point Associates, Inc.





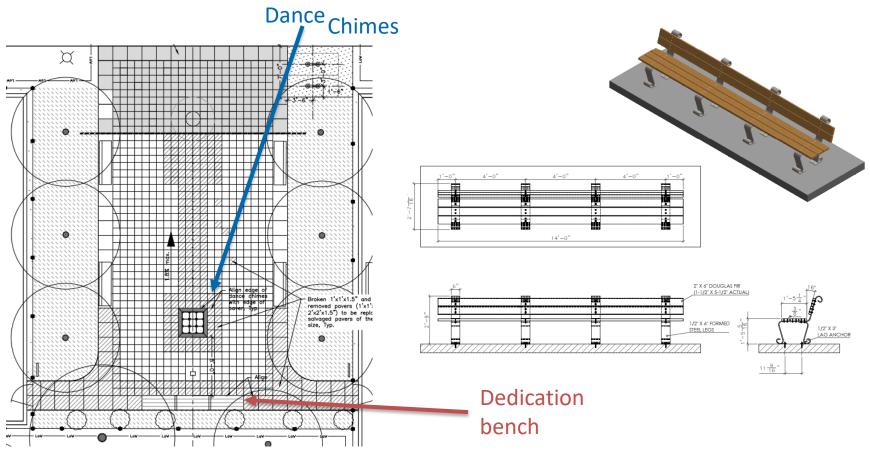
Dance Chimes will be installed on the playground's entry plaza:







Dance Chimes will be accompanied by a bench in the Shurcliff style, painted dark green

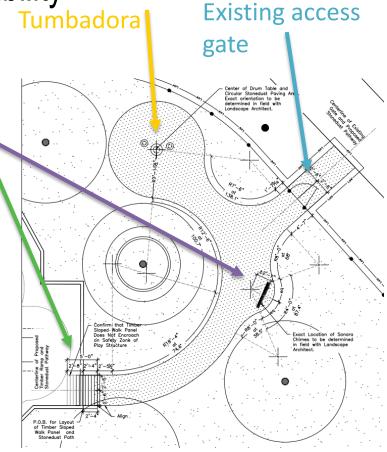




Sonora and Tumbadora Drums will be installed in a crushed stone dust pathway area, improving accessibility









Sonora and Tumbadora Drums will be installed in a crushed stone dust pathway area, improving accessibility



Existing access gate

Access ramp from 5-12 playground

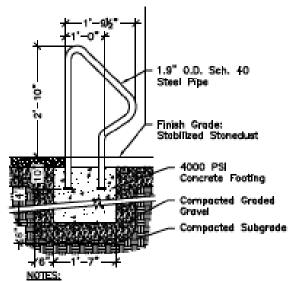


## **Project Scope: Entry Plaza**

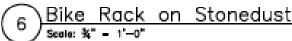
- Bench with Dance Chimes
- Replacing cracked & uneven granite plaza pavers

Adding (2) bike racks





- Bike Rack to be Embedded Mount Swerve Bike Rack by Dero Bike Racks, of Fridely, MN. Or Approved Equal. Bike rack to be not dip galvanized steel. Color to be black. Submit product Rerature for approval by Landscape Architect prior
- to ordering.
- 4. Follow at Manufacturer's installation instructions and specifications.





## Increasing Play Value for ages 2-5

- Remove:
  - Broken Gear Panel
  - Broken Periscope Panel
- Install:
  - Ring-A-Bell Panel
  - Bongos Panel
- Repair:
  - Wooden Car
- Donate:
  - Watch-Me-Grow Panel







## **Increasing Play Value for ages 2-5**



Watch-Me-Grow Panel



Ring-A-Bell Panel, to be ordered in matching green and beige colors

Bongos Panel, to be ordered in matching green and beige colors





## **Increasing Play Value for ages 5-12**

- Replace:
  - Corkscrew and Fire pole
  - Net climber and Ladder climber
- Donate:
  - Jump Touch Panel
  - Net climber and Ladder climber
- Remove:
  - Bollard and chain

Non-compliant Fire pole



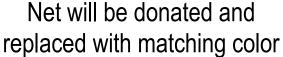
Non-compliant Corkscrew

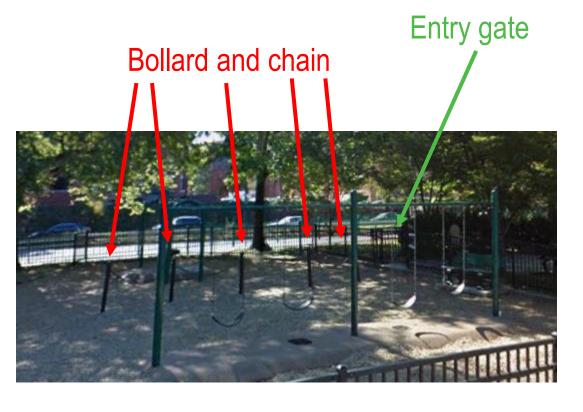




## **Increasing Accessibility and Aesthetics**









## **Increasing Accessibility and Aesthetics**

- Replenish safety surfacing (Engineered Wood Fiber, or EWF)
- Bring tree benches within playground borders to improve accessibility
- Lawn aeration & reseeding



Move border to make bench accessible



Add more EWF



## Thank You!

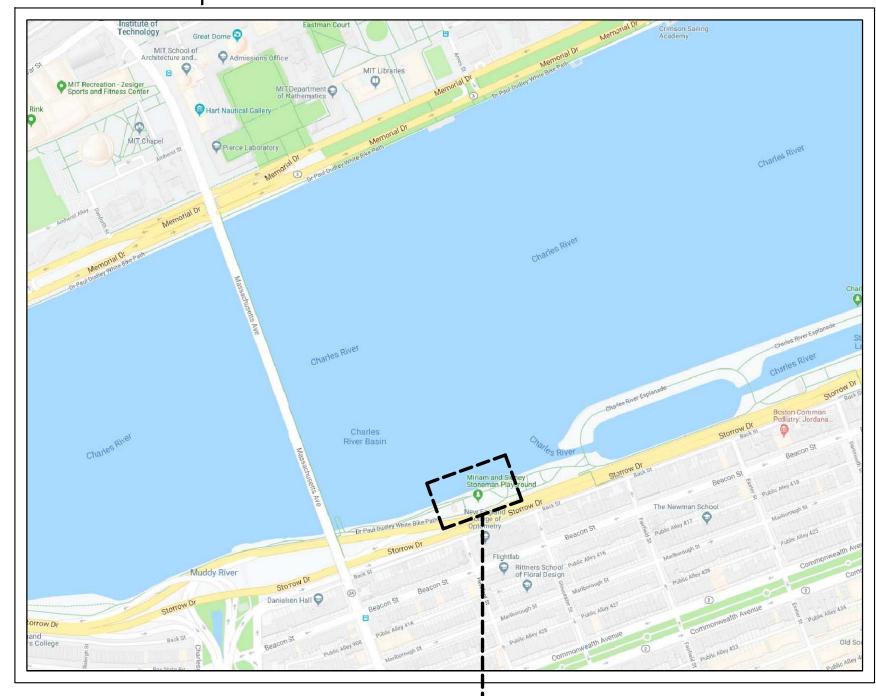


# Appendix

## STONEMAN PLAYGROUND IMPROVEMENTS

Charles River Esplanade
Boston, MA

### Locus Map



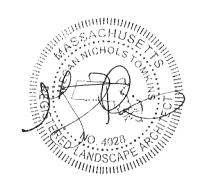
Project Location

Construction Documents

September 30, 2019

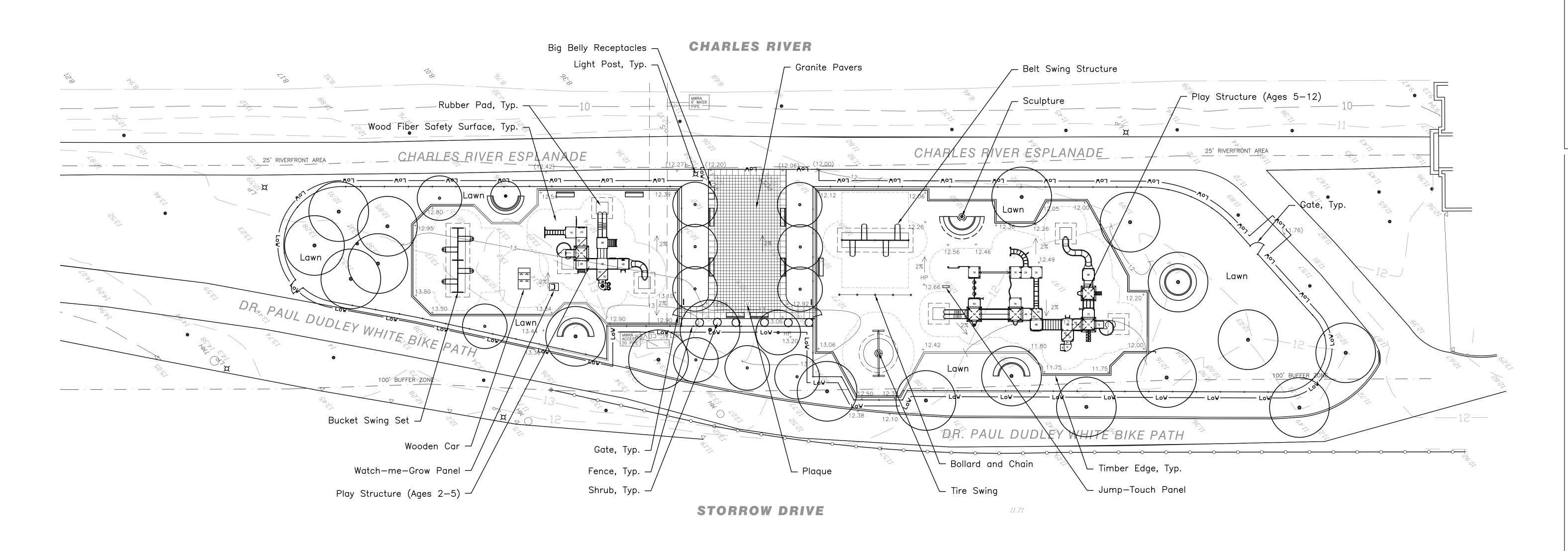
## CBA Landscape Architects LLC

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



## DRAWING LIST CBA - Project No. 1907

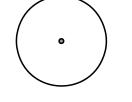
- L0.1 Existing Conditions Plan
- L1.0 Removals Plan
- L2.0 Materials & Layout Plan
- L2.1 Materials & Layout Enlargements
- L3.0 Site Details
- L3.1 Site Details



## EXISTING CONDITIONS NOTE

Existing Conditions Plan is based off of the 2001 MDC Esplanade Playground Construction Documents and field observations and measurements recorded June, 2019.

## EXISTING CONDITIONS LEGEND



Tree



Semi—circular Metal Bench





Circular Me



L0.1

DATE: 09-30-2019

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

FILE: 1907-L1.0-E.C. & Demo.dwg

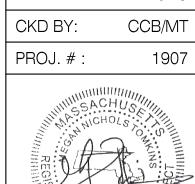
CCB/MT

DWN BY:

CKD BY:

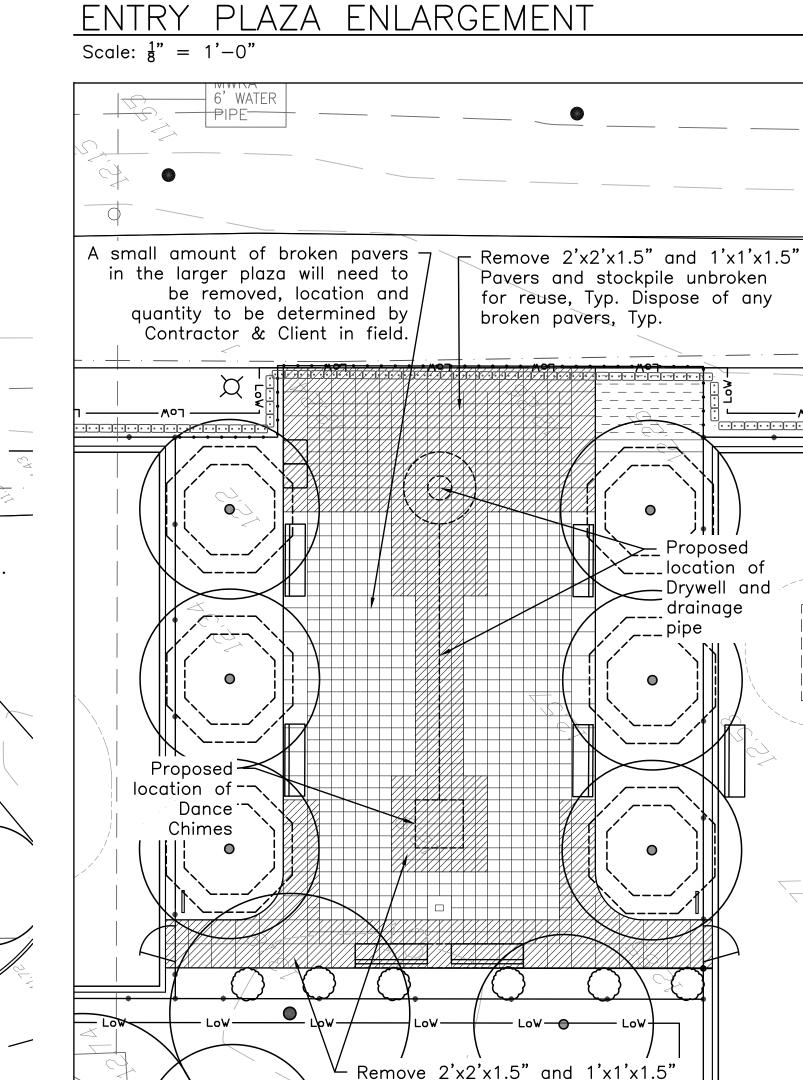
PROJ.#:

S



3. Landscape Architect and Owner's Representative to approve

Architect or Owner.

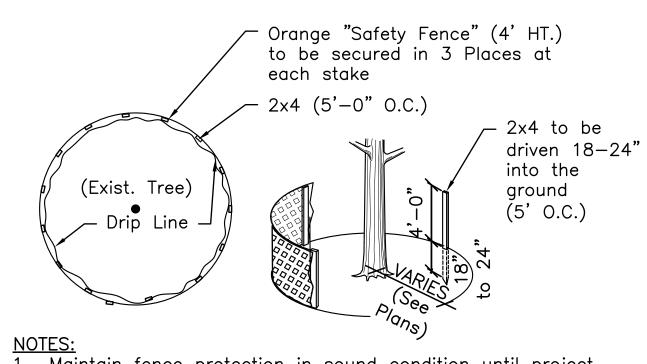


1. Diagram of broken pavers is schematic. Contractor shall review with Landscape Architect all broken pavers that will be need to be removed for disposal. At completion of project, all unused and unbroken pavers are to be disposed of by Contractor or stockpiled at location designated by Esplanade Association or DCR. Choice is to be made by the Esplanade Association.

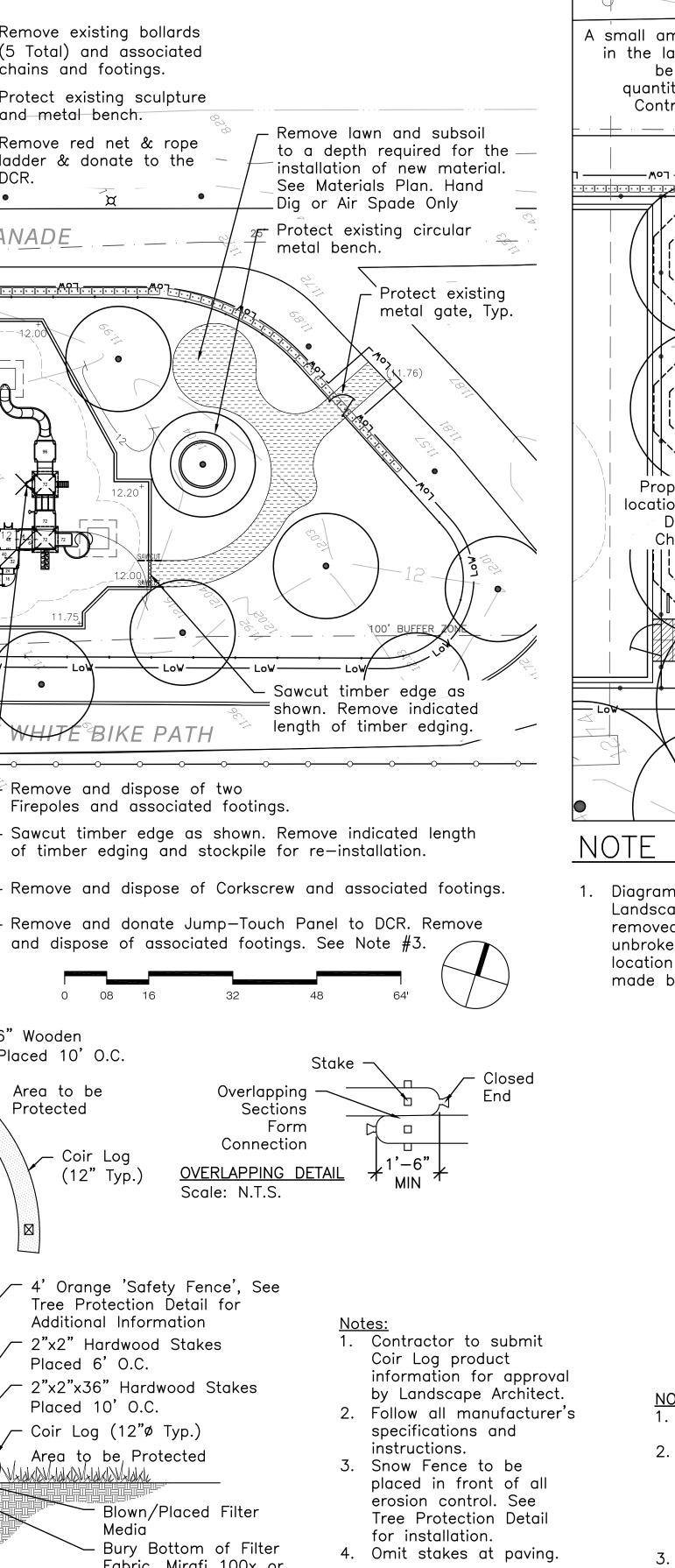
broken pavers.

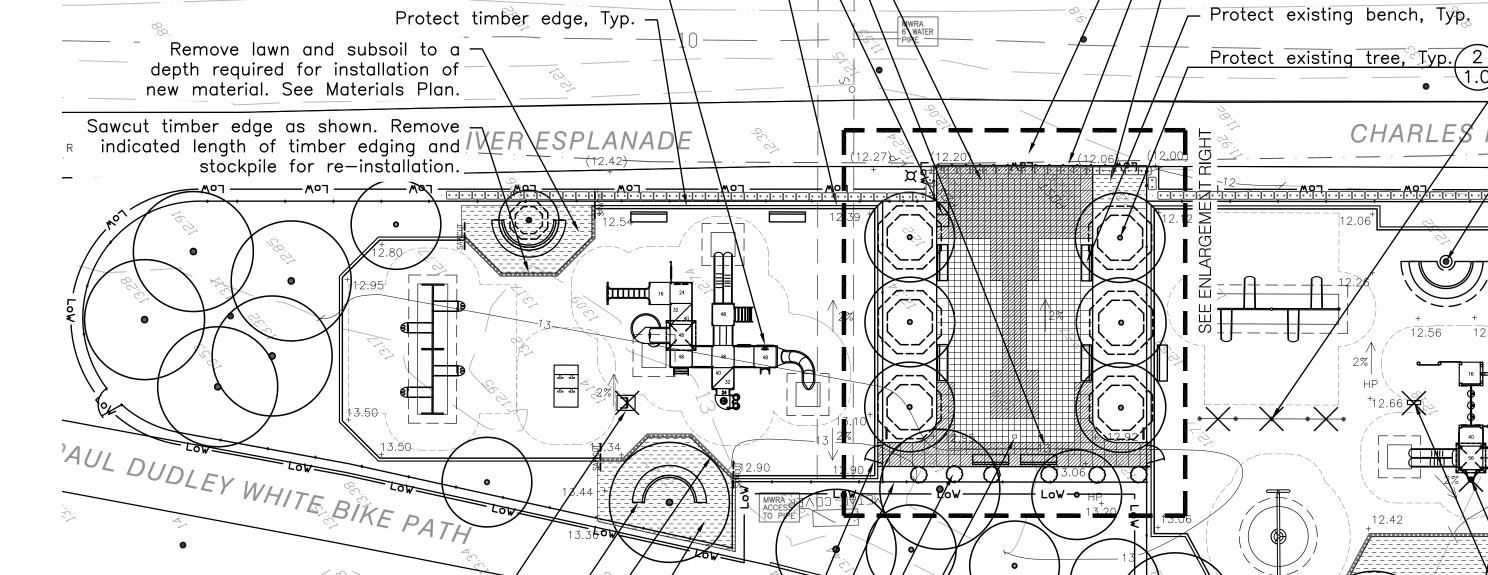
Pavers and stockpile unbroken

for reuse, Typ. Dispose of any



- 1. Maintain fence protection in sound condition until project completion.
- 2. Protective fence to run along dripline unless otherwise required to install improvements. Spray or stake layout of all proposed paving edges and site features within the dripline of existing trees before beginning any demolition work or remove existing material in order to determine the maximum extents of site fencing.
- fence placement in field before construction begins.
- 4. Do not relocate approved fence without notifying Landscape





Protect existing

Protect existing

Protect existing -

shrub, Typ.

metal gate, Typ.

metal fence, Typ.

Remove pavers; Dispose of any broken pavers; Stockpile for reuse all unbroken pavers, Typ. SEE ENLARGEMENT ON RIGHT.

Remove Big Belly receptacles. —

Save and protect for reinstallation.

Remove and dispose of Periscope -

Panel and Gear Panel.

Protect existing timber edge, Typ. —

#### Remove Turf & Thatch, Hand Dig Protect existing plaque. or Air Spade only

100' BUFFER ZONE

Remove and donate —

metal bench, Typ.

Sawcut timber edge as —

shown. Remove indicated

length of timber edging and

stockpile for re-installation.

footings. See Note #3.

Protect existing semi-circular -

Watch-Me-Grow Panel to DCR.

Remove and dispose of associated

## DEMOLITION & REMOVALS NOTES 1. The Landscape Contractor shall verify location of and

protect all utilities, drainage, and sub-drainage structures,

2. Landscape Contractor shall review items to be removed with Landscape Architect prior to commencement of work.

prior to starting construction. Call DIG-SAFE.

- 3. The DCR shall retain the right of first refusal for any items to be removed from the site. If the DCR elects to retain materials or furnishings from the site, the Contractor shall deliver the selected items to the DCR's yard at no additional cost to the Owner. All other materials slated for disposal shall be disposed of off-site properly and in accordance with all local and state regulations.
- 4. Protect from damage all trees, walls, curbs, paving, play equipment, furniture, and any other site feature that is not designated for removal.
- 5. Inspection and pruning of existing trees are to be by others.
- 6. Any damaged item not scheduled for removal shall be restored by the Contractor to the Owner's satisfaction at no extra charge.
- 7. Contractor to be given directions on how to access the site by the Esplanade Association. These are to be followed at all times.

## DEMOLITION & REMOVALS LEGEND

STORROW DRIVE

Erosion Control, Typ. (1)

- Construction Fencing, Typ.

Remove lawn and subsoil

See Materials Plan

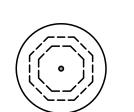
Remove Turf & Thatch

Hand Dig or Air Spade Only

to a depth required for the

installation of new material.

Limit-of-Work Line Erosion Control (See Detail L1/1.0)



Protect Existing Tree (See Detail L2/1.0)

Construction Fencing

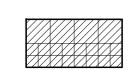
CHARLES RIVER



Remove indicated length of timber edge. (Stockpile for re-installation unless noted otherwise).



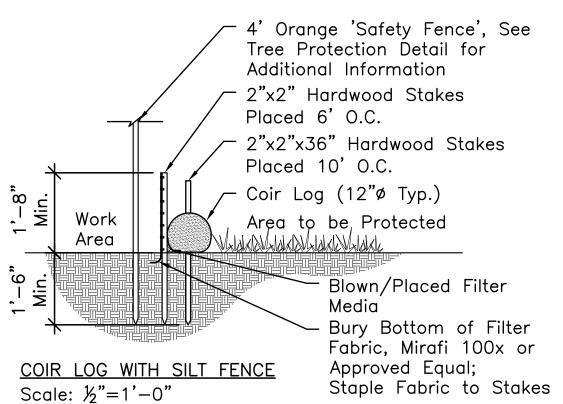
Remove Object



Remove Unbroken Granite Pavers and Stockpile for Reuse; Dispose of any Broken Granite Pavers, Typ. SEE ENLARGEMENT ON THIS SHEET.



Remove lawn and subsoil to a depth required for installation of new material. See Materials



Remove existing bollards

(5 Total) and associated

Protect existing sculpture

Remove red net & rope

ladder & donate to the

- Remove and dispose of two

Firepoles and associated footings.

Overlapping

Connection

OVERLAPPING DETAIL

Scale: N.T.S.

Sections

Form

metal bench.

chains and footings.

and metal bench

RIVER ESPLANADE

11.71

Work Area

COIR LOG PLAN

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

Water Flow

2"x2"x36" Wooden

Stakes Placed 10' O.C.

Area to be

Coir Log

(12" Typ.)

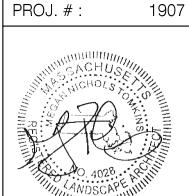
Protected

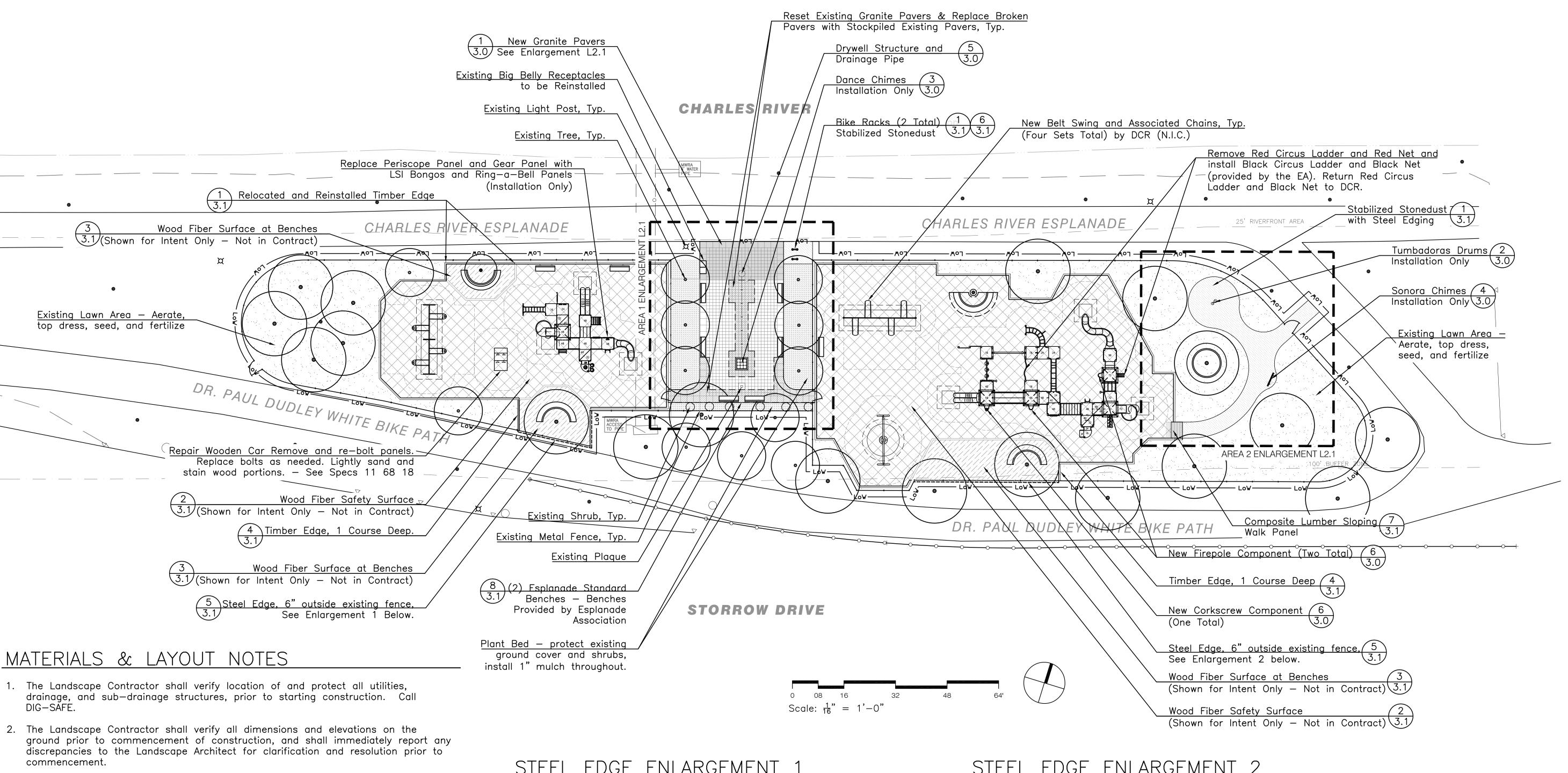
placed in front of all erosion control. See Tree Protection Detail for installation. 4. Omit stakes at paving.

Erosion Control - Coir Log Scale:  $\frac{1}{2}$ " = 1'-0"

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

S





- 3. The Landscape Contractor shall stake layout of plan on the site for approval of Landscape Architect after demolition but before commencement of new construction.
- 4. Wood fiber safety surface is shown for intent only and is not in contract. Both playground equipment areas shall be replenished with wood fiber safety surfacing provided by the Esplanade Association except where existing rubber safety surfacing pads are located.

## MATERIALS & LAYOUT LEGEND

Limit-of-Work Line Existing Tree

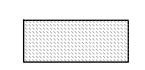
Wood Fiber Safety Surface

Wood Fiber Surface at Benches

Stabilized Stonedust

Relocated and Reinstalled Timber Edge

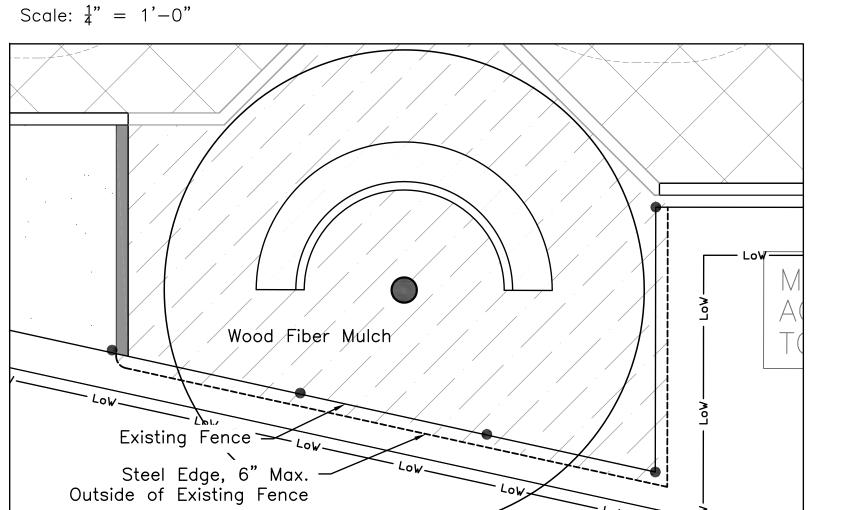
Existing Lawn Area -Top dress, seed, and fertilize



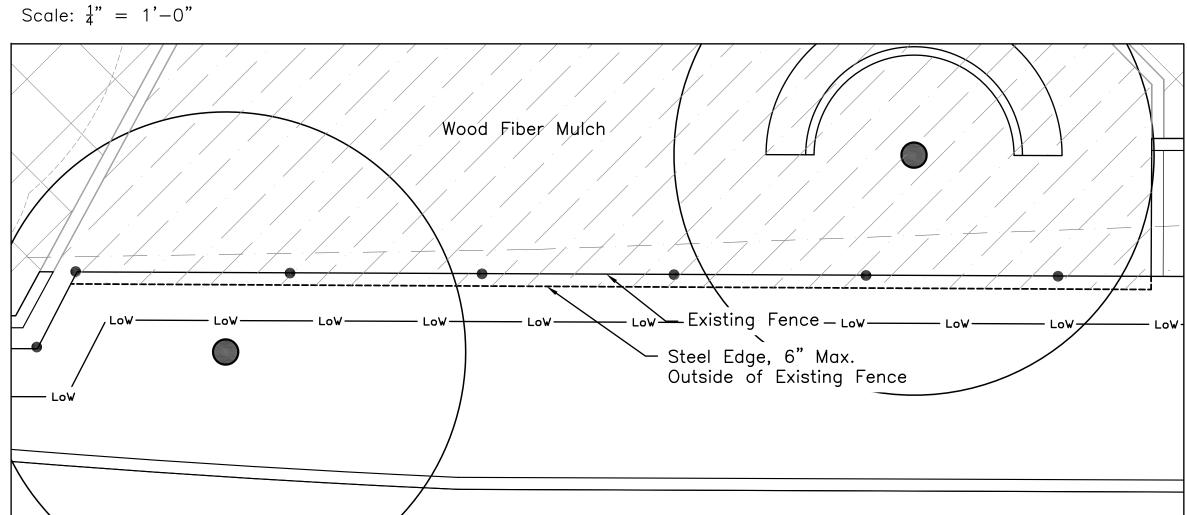
ground cover plants, install 1" mulch throughout.

Plant Bed - protect existing

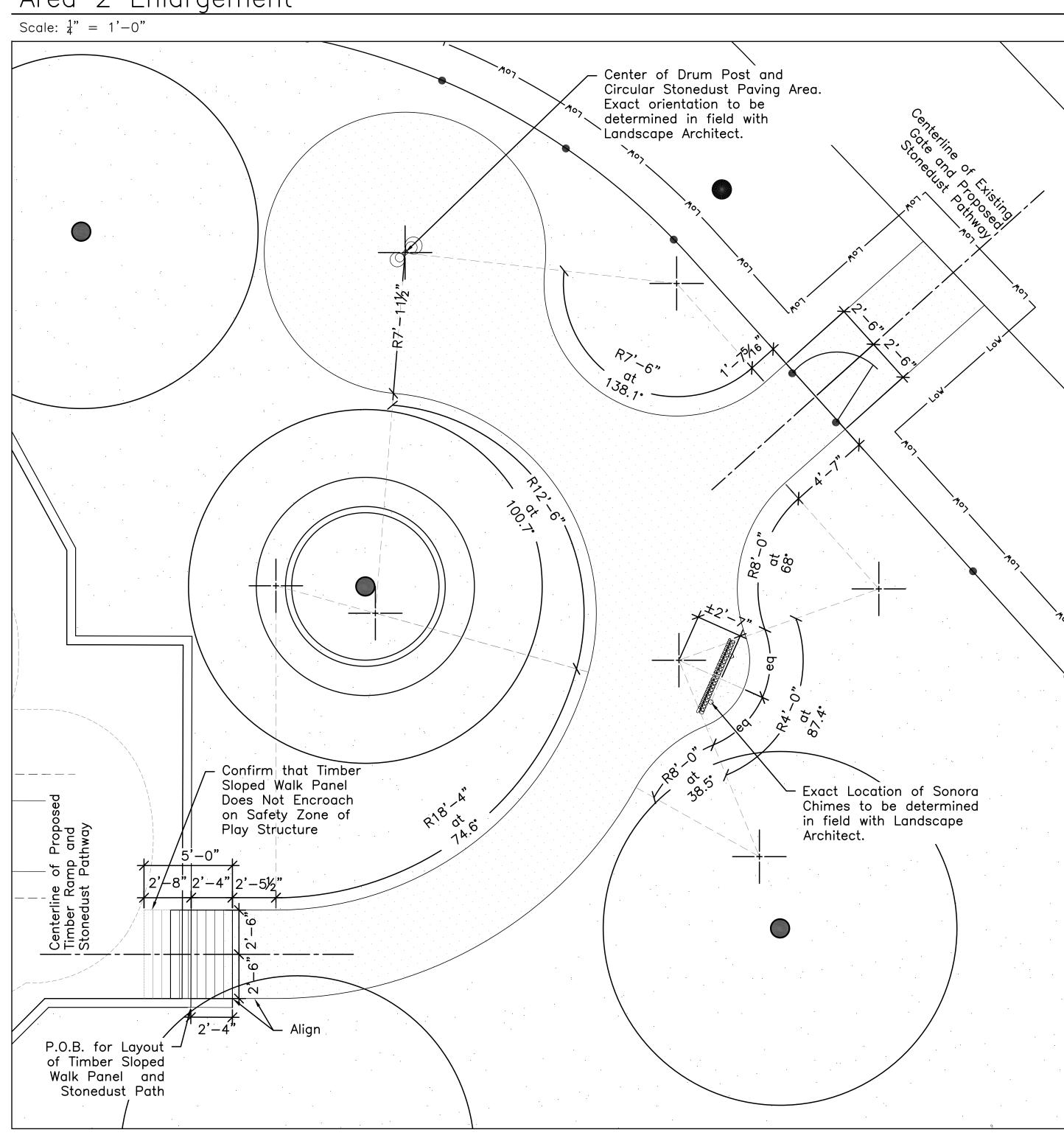
## STEEL EDGE ENLARGEMENT



## STEEL EDGE ENLARGEMENT 2



## Area 2 Enlargement



### MATERIALS & LAYOUT NOTES

- 1. Granite paving pattern shall match existing.
- 2. New granite pavers shall be 2.5" thick. (Area is shaded in gray).
- 3. Any broken pavers beyond this area shall be replaced with salvaged granite pavers (1.5" thick).
- 4. Powerwash all existing granite pavers that have been reset or have remained.
- 5. Exact locations of dance chimes and benches to be determined in field with Landscape Architect.

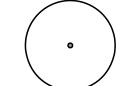
## GRADING NOTES

— LoV——— LoV———

- 1. Grading of plaza shall be maintained except where pavers have settled. For settled pavers that are being reset, add stonedust to bring pavers back to original grade.
- 2. Grade stakes to be set for approval by Landscape Architect prior to installation of gravel bases and prior to installation of all paving and equipment.
- 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 1.8% cross slope once subbase materials are installed and prior to installing finish
- 6. Any area outside the Limit of Work Line which is disturbed shall be restored to previous conditions at no cost to the owner.

## LEGEND

Limit-of-Work Line



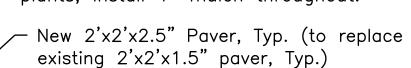
Existing Tree

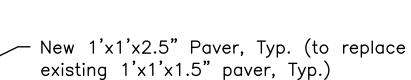


Existing Lawn Area -Top dress, seed, and fertilize

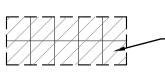


Plant Bed — protect existing ground cover plants, install 1" mulch throughout.

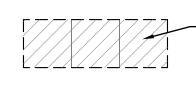




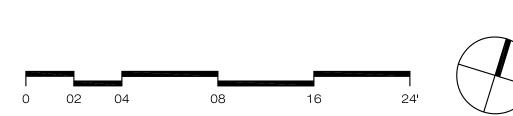
New Stabilized Stone Dust Paving



— Reset existing 1'x1'x1.5" Paver, Typ. Contractor to replace any broken pavers with stockpiled 1'x1'x1.5".



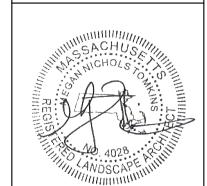
Reset existing 2'x2'x1.5" Paver, Typ. Contractor to replace any broken pavers with stockpiled 2'x2'x1.5". A small amount of broken existing 2'x2'x1.5" pavers may need to be replaced with new 2'x2'x1.5" pavers, quantities to be determined by Contractor during demolition.



**A** STONEM

DATE: 09-30-2019 SCALE: 1/4" = 1' - 0"FILE: 1907-L2-Mats&Layout.dwg

DWN BY: CKD BY: CCB/MT PROJ.#:



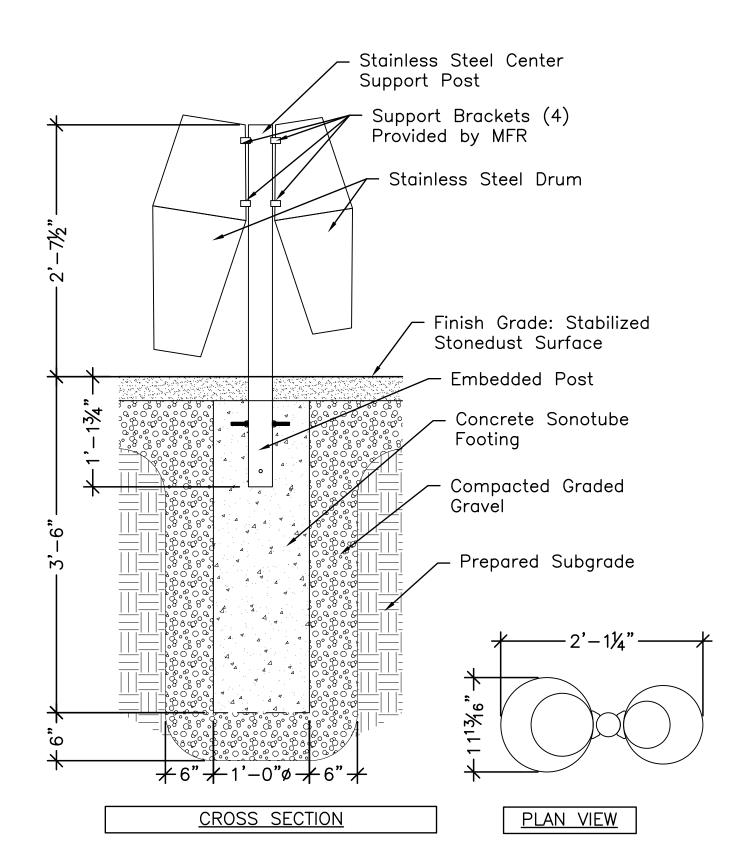
NOTES:

1. New granite pavers to match existing in color. Provide physical sample for approval by Landscape Architect and Owner.

Butt joint pavers and sweep joints with stonedust.
 Sizes vary. See Plans.

Granite Pavers (New or Reset)

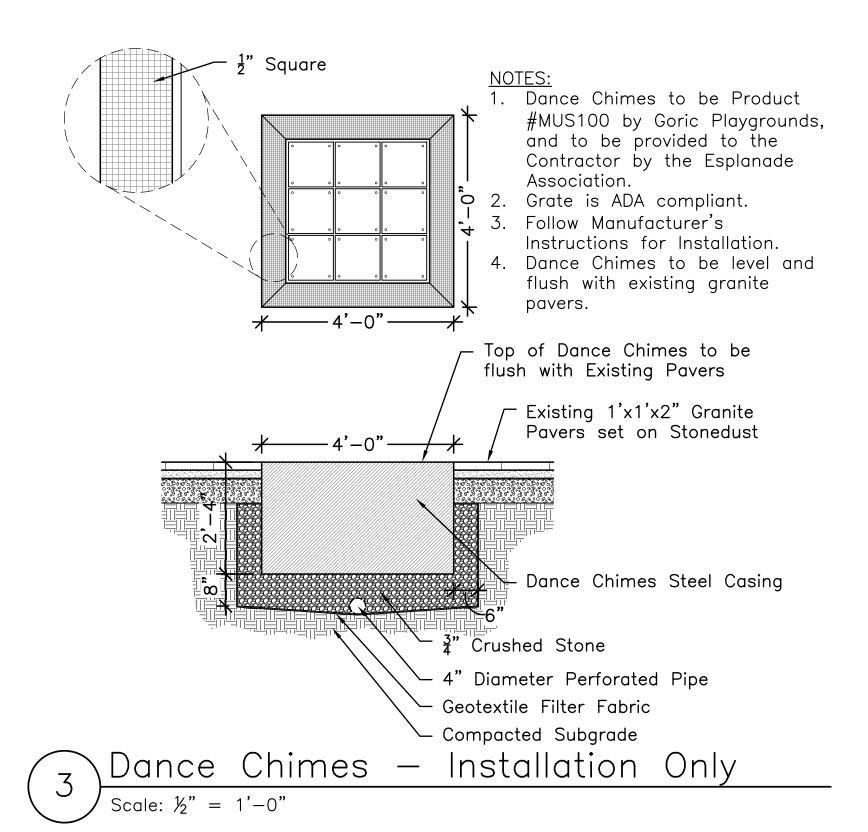
Scale: 1" = 1'-0"



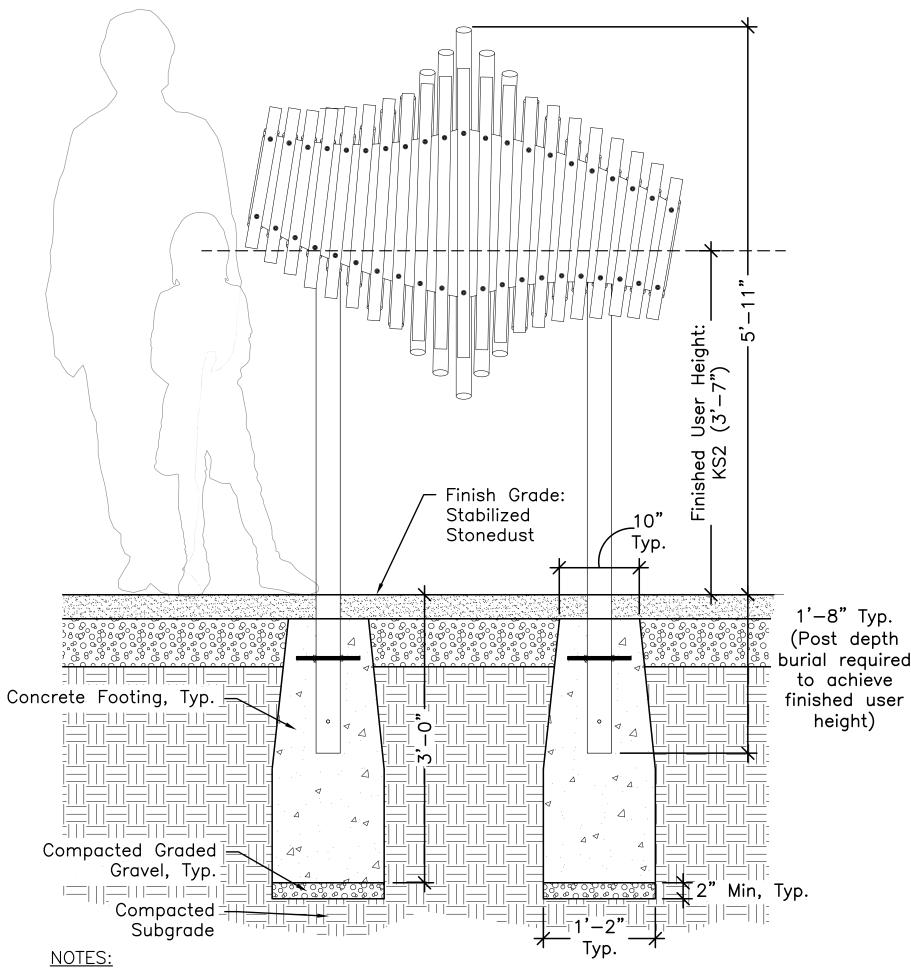
1. Tumbadoras Drum to be an Embedded Mount Tumbadoras by Percussion Play Outdoor Musical Instruments, and to be provided to the contractor by the Esplanade Association.

2. Follow Manufacturer's instructions for installation. 3. Exact location of drums to be determined and approved in field with Landscape Architect.

Tumbadoras Drums — Installation Only



PLAN VIEW

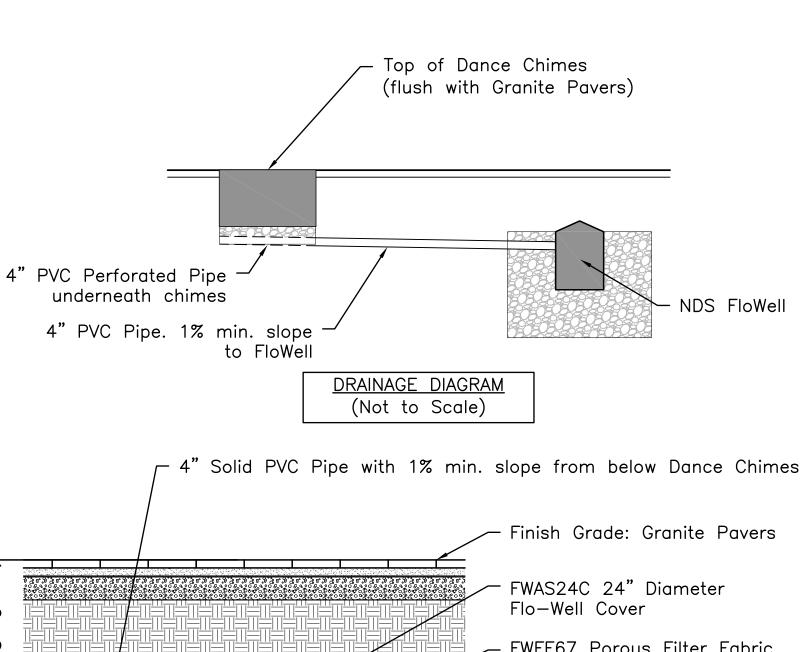


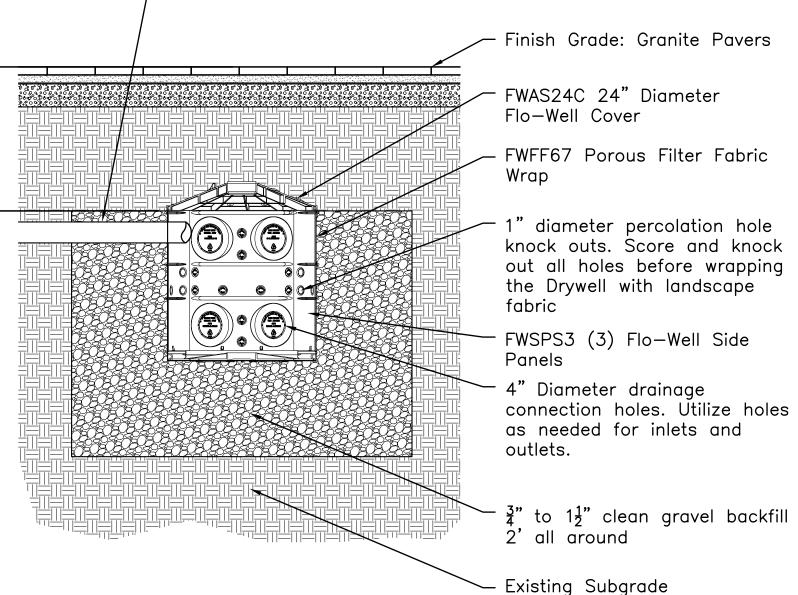
1. Sonora Chimes to be by Percussion Play, and to be provided to Contractor by the Esplanade Association.

2. Finished user height shall be KS2 (or 3'-7") for Ages 7-11. 3. Installation to be completed in accordance with Manufacturer's Specifications.

(Sonora Chimes to be buried at the correct depth for KS2 users). 4. Exact location of chimes to be determined and approved in field with

Landscape Architect. Sonora Chimes — Installation Only



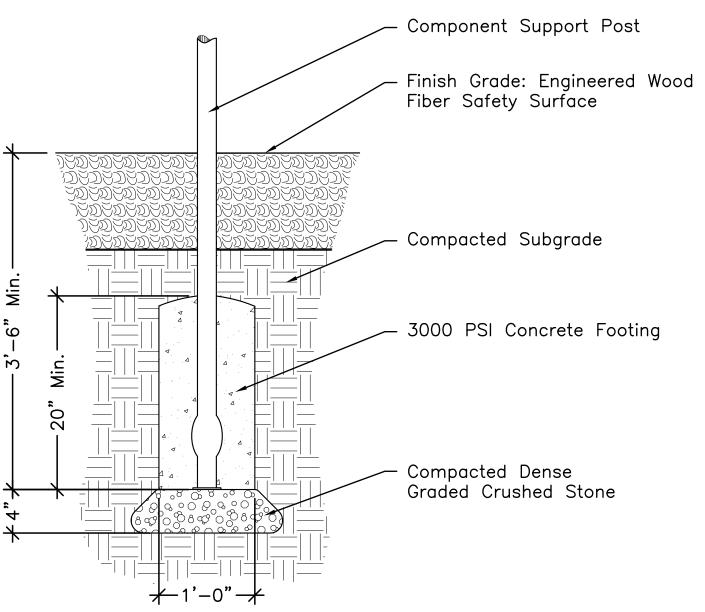


1. System to be FWAS24 by NDS (www.ndspro.com). 2. System must be installed 10' away from any structure or foundation.

3. Installation to be completed in accordance with manufacturer's specifications.

Drywell System

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



1. Playventure Corkscrew (one total) and Playventure Firepoles (two total) to be by Landscape Structures, Inc. of Delano MI, and provided to Contractor by the Esplanade Association.

2. See Plans for locations.

3. Installation to be completed in accordance with Manufacturer's Specifications.

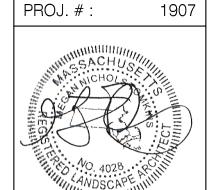
Post Footing for Corkscrew & Firepole Installation Only

**M** 

**CBA** | Land

DATE: 09-30-2019 SCALE: AS NOTED FILE: 1907-L4-Dets.dwg DWN BY: CKD BY: CCB/MT

S



Notes:

1. Stone Dust to meet adjacent finish grade smoothly. 2. See Specifications. Provide sample for approval.

3. Steel Edge to be painted black. Submit Product Literature for Approval.

## Stabilized Stonedust Paving

with Steel Edge

±6" Layer of New Engineered

Wood Fiber Surface Compact in 3" Lifts (or at depths that will be half the final) Existing Engineered Wood Fiber Surface

(Recompact as Needed) Existing Filter Fabric (Assumed)

Existing Compacted Graded Crushed Stone (Drainage Stone) (Assumed) Existing Compacted Subgrade (Assumed)

1. Engineered Wood Fiber Safety Surface is shown for intent only and is not in contract. Esplanade Association to provide and install at a later date.

2. Engineered Wood Fiber Surface to meet federal code requirements for playgrounds.

3. After compaction, wood surface to be flush with finish grades of existing timber edges and rubber safety surfacing.

## Wood Fiber Safety Surfacing

Not Included

— Compacted Subgrade

±4" Layer of New Engineered Wood Fiber Surface Compacted in a Single Layer, Transition from Wood Fiber Safety Surface At Playground, Areas to be Clean & Smooth.

1. Engineered Wood Fiber Surface at benches is shown for intent only and is not in contract. Esplanade Association to provide and install at a later date.

2. After compaction, wood surface to be flush with finish grades of existing timber

## Wood Fiber Surface at Benches

Not Included

— Finish Grade: See plans, Lawn shown  $-1\frac{1}{2}$ "ø x 1" Deep Wood Plug (Typ.) - ¾" Bevel All Exposed Edges #6 Rebar @ 4' O.C. and at all Joints, 2 Per Timber Min., Recess Top 1" and Seal with Plua. Finish Grade: Wood Fiber Surface, See Details 2 and 3 on L3.1 and Plans for Depths. 4"x6" Nominal Timbers (Dressed), to be Reused from Onsite. If Existing Lumber Cannot be Reused, Contractor to Match Existing. Compacted Graded Gravel Filter Fabric — Wrap and Secure Around Timbers (Both Sides) <u></u>
\$\darkappa 6" \darkappa 6" Compacted Subgrade

Timber Edge – 1 Course Deep

Finish Grade: Grass Finish Grade: Mulch Ryerson Steel Edge, Color to be black. ¼" x 5" Steel Edging with 18" stakes located 12" O.C. Compacted Subgrade

Notes:

1. Steel Edge to be painted black. Submit Product Literature for Approval.

Steel Edge

**SECTION** 

8

NO SCALE

4x4 Composite Extent of Play Equipment Lumber (Typ.) Safety Zone: Contractor Countersink Stake to Confirm in Field & Fill Hole with Wood Fiber Safety Surface Epoxy — Finish Grade: (Approx) Lawn 1x4 Bracing (Typ.) #6 Rebar 4' Long (Typ.) Compacted Graded Gravel

1. Shop Drawings Required.

2. Composite lumber members shall be HDPE Recycled Plastic Lumber with at least 85% recycled content, "Select" by Bedford Technology, 2424 Armour Road, PO Box 609, Worthington, MN 56187-0609, Phone (507) 372-5558, or Approved Equal. Walk panel designed to accomodate 75 PSF Live Load. Decking to have Simulated Wood Grain Top Surface.

Compacted Subgrade

- Screw 1x4 Composite

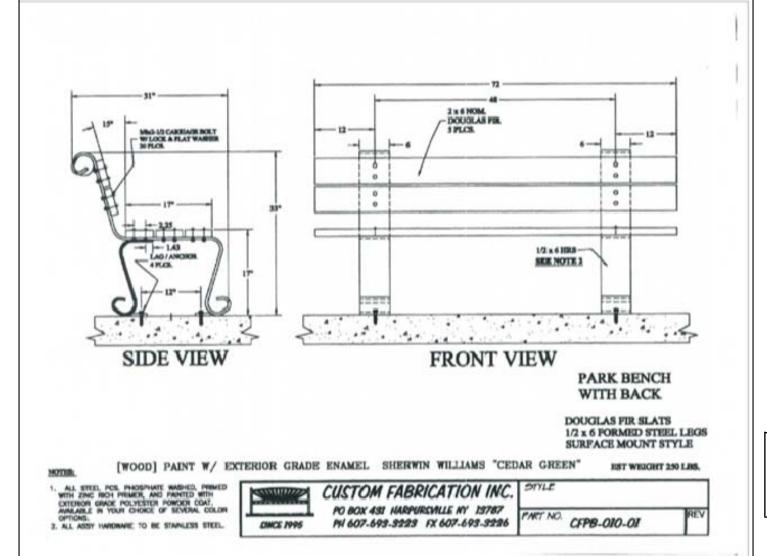
to Each 4x4 (Typ.)

Lumber Bracing

3. Sloped Walk Panel shall not encroach on play equipment safety zones. 4. New 6x6 Timber edges to be ACQ pressure treated lumber. DO NOT USE lumber treated with CCA.

5. All hardware to be stainless steel.

Composite Lumber Sloped Walk Panel



Bench to be provided to Contractor by Esplanade Association. 2. Contractor to follow Manufacturer's installation instructions.

Standard Wood and Metal Bench — Installation Only

—1'-9½"— ∠1'-0"<del></del> - 1.9" O.D. Sch. 40 Steel Pipe Finish Grade: Stabilized Stonedust 4000 PSI Concrete Footing Compacted Graded Gravel Compacted Subgrade

NOTES:

1. Bike Rack to be Embedded Mount Swerve Bike Rack by Dero Bike Racks, of Fridely, MN. Or Approved Equal.

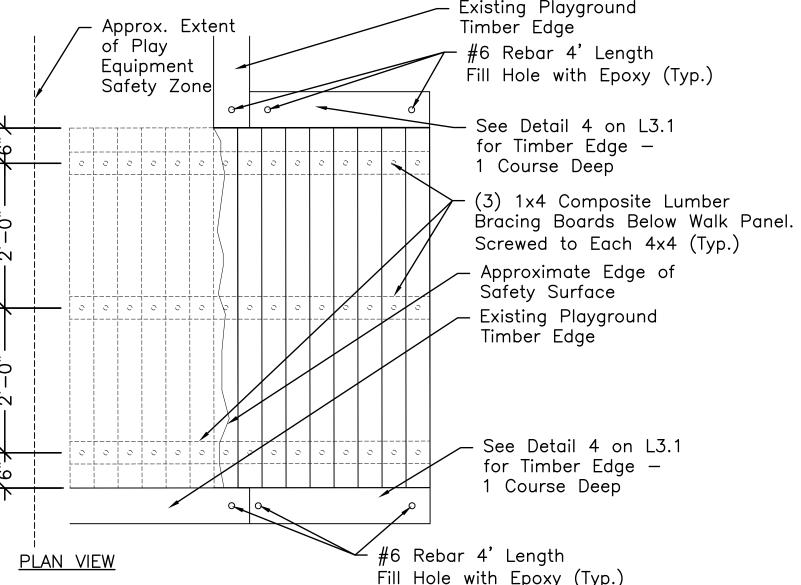
2. Bike rack to be hot dip galvanized steel. Color to be black.

3. Submit product literature for approval by Landscape Architect prior to ordering.

4. Follow all Manufacturer's installation instructions and specifications.

<u>Bike Rack on Stonedust</u>

– Existing Playground Timber Edge



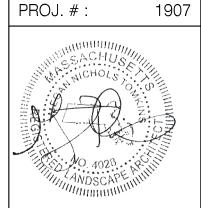
A

4

CBA | Landsca

DATE: 09-30-2019 SCALE: As Showr FILE: 1907-L4-Dets.dwg DWN BY: CKD BY: CCB/MT

S



L3.