

**City of Boston
Reconstruction of Broad Street**

As Part of the Crossroads Initiative

**Abutters Preconstruction
Informational Meeting
February 24, 2010**

Project Limits:

State Street to Greenway/Surface Road



General Scope of Work:

- Narrowing of Existing Roadway/
Widening of Sidewalks
- Addition of Urban Design Elements
(trees/lighting/seating/street furniture)
- Related drainage and utility work
- Related Areaway Work

Team Overview

City of Boston/BRA

- Peter Gori, BRA
- David Mallen, Public Works
- Ed Hesford, BTB

Designer: HDR Engineers

- Jerry Friedman, P.E.
- Richard Kelley, P.E.

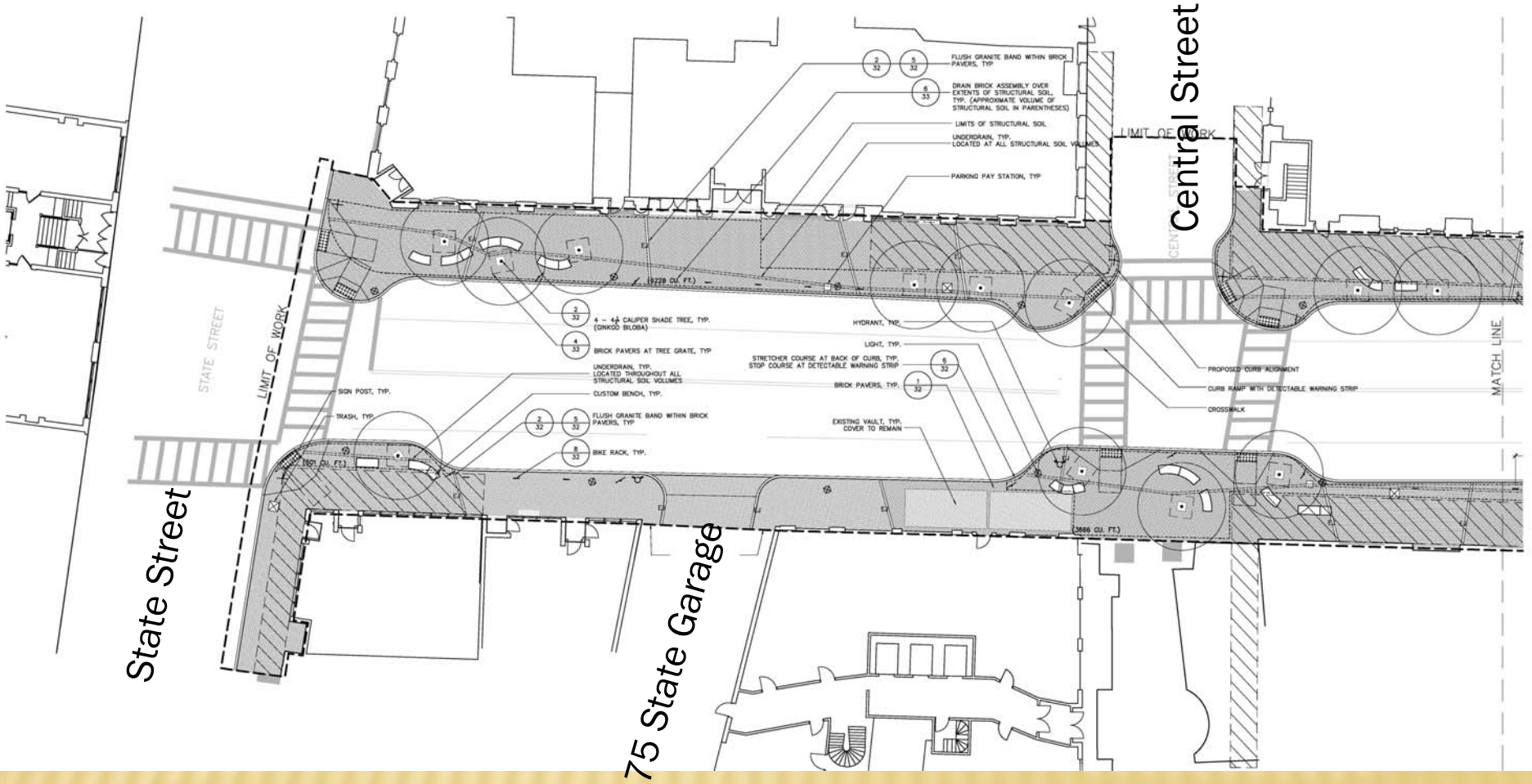
Resident Engineer: Bryant Associates

- Jim Comeau, P.E.

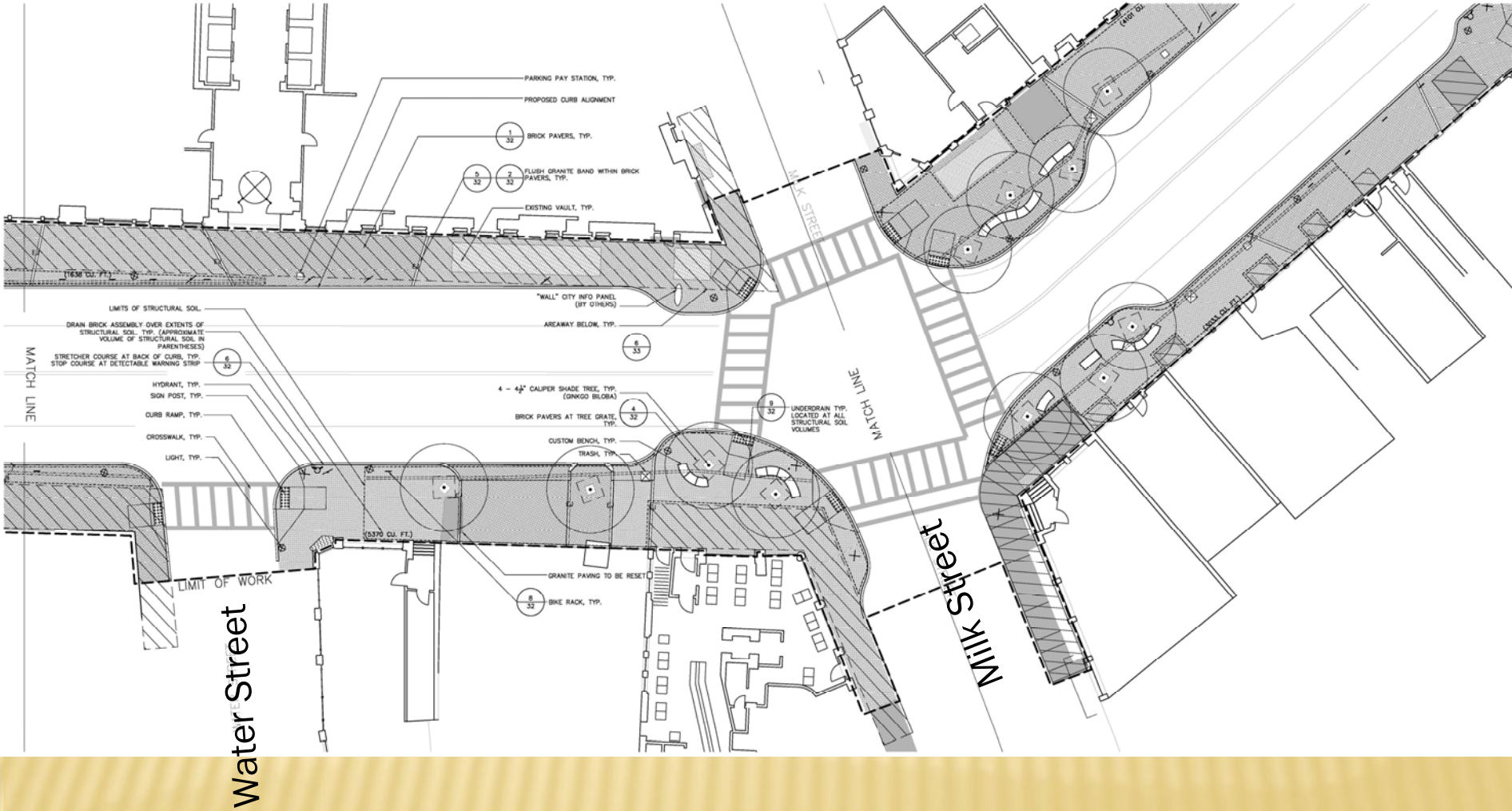
Contractor: J.Derenzo

- Peter Burch, Project Manager
- Steve Ando, General Superintendent
- Site Superintendent, TBD

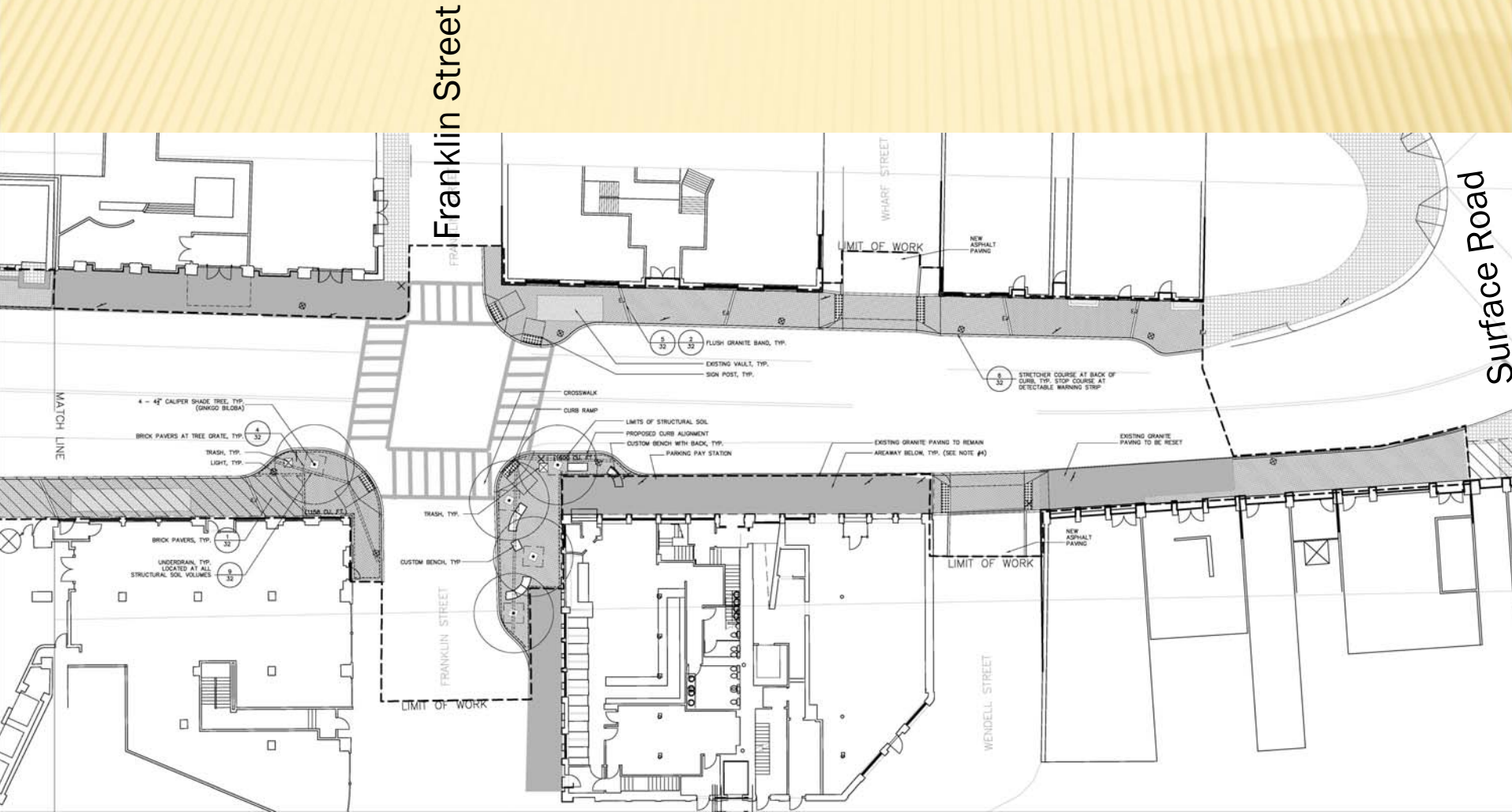
Design Section (State to Central):



Design Section (Central to Milk):

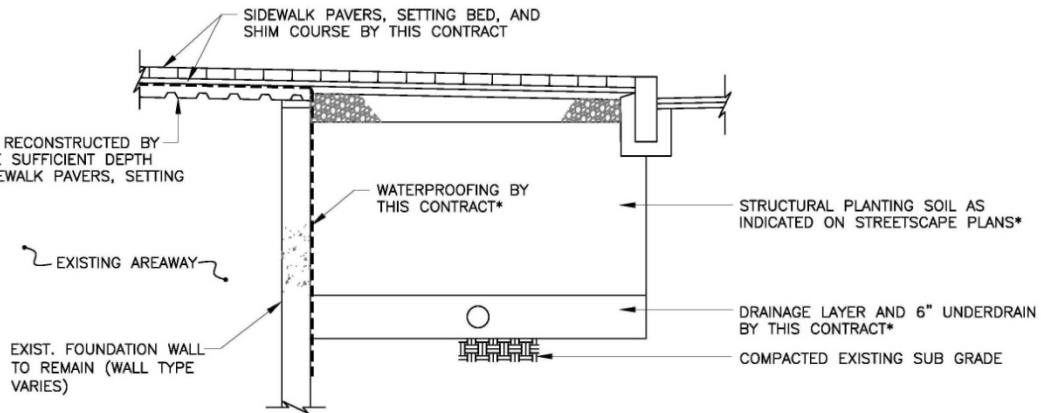


Design Section (Franklin to SASB):



Areaway Work (typical)

CONC. SLAB EXISTING OR RECONSTRUCTED BY BLDG. OWNER TO PROVIDE SUFFICIENT DEPTH FOR INSTALLATION OF SIDEWALK PAVERS, SETTING BED AND SHIM COURSE

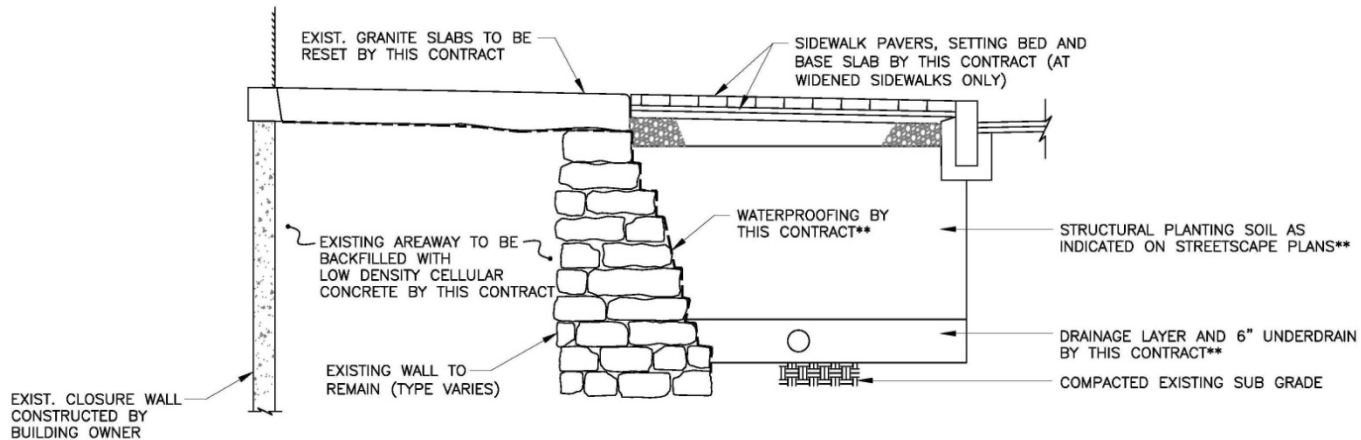


AREAWAY SIDEWALK - TYPE 1

N.T.S.

SEE SHEETS 17-18 FOR ADDITIONAL DETAILS

* STRUCTURAL PLANTING SOIL IS SHOWN AS A TYPICAL CONDITION ADJACENT TO TYPE 1 AREAWAYS. SEE STREETScape PLANS FOR ACTUAL LIMITS OF STRUCTURAL PLANTING SOIL. SEE SHEETS 17-18 FOR SPECIFIC LIMITS OF WATERPROOFING.



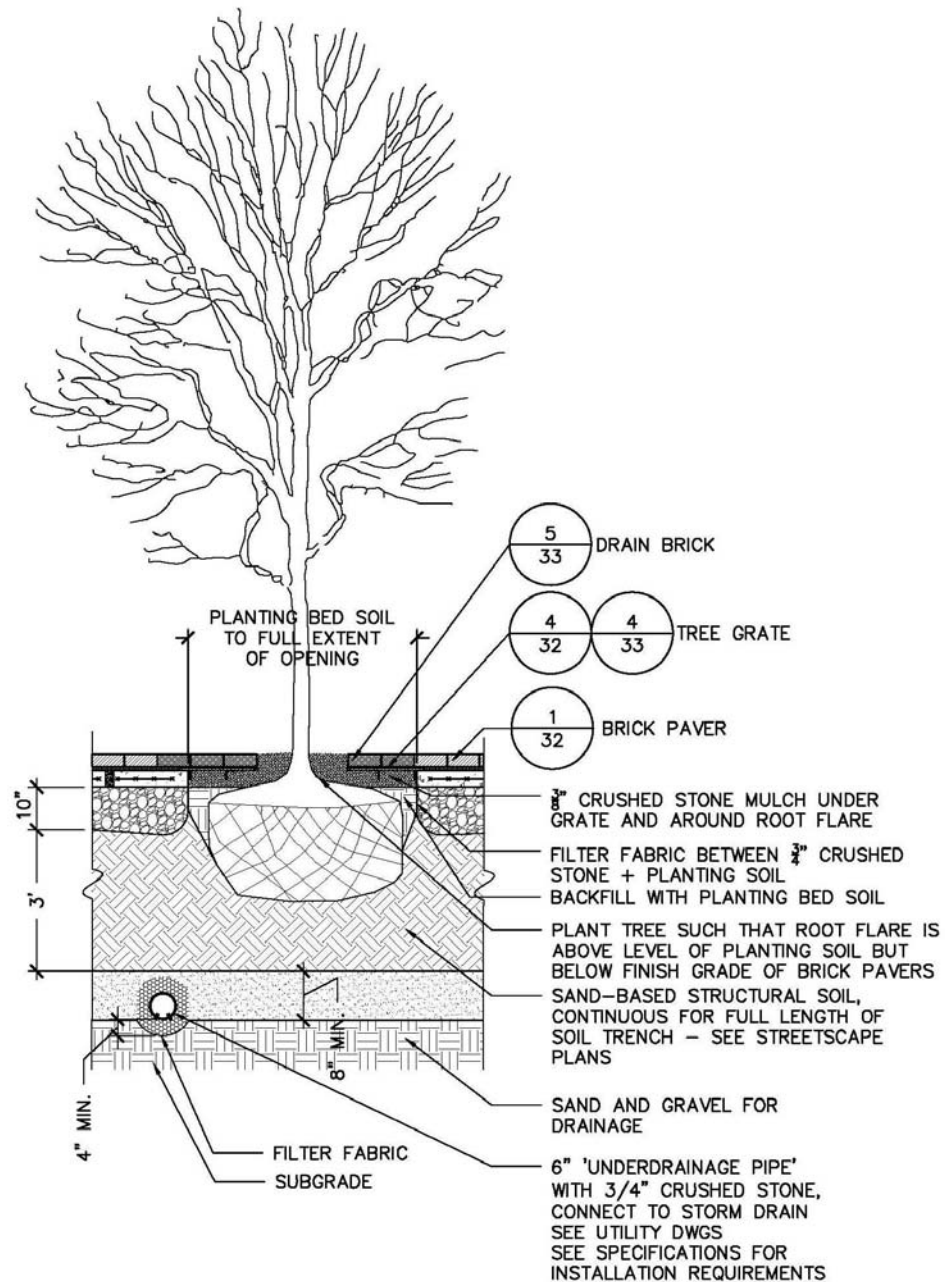
AREAWAY SIDEWALK - TYPE 2 AND 3*

N.T.S.

* TYPE 2 IS SHOWN. TYPE 3 IS SIMILAR, EXCEPT EXIST GRANITE SLAB TO BE DISCARDED AND PAVER SIDEWALK TO BE CONSTRUCTED OVER BACKFILLED AREAWAY.

** STRUCTURAL PLANTING SOIL IS SHOWN AS A TYPICAL CONDITION ADJACENT TO AREAWAYS. SEE STREETScape PLANS FOR ACTUAL LIMITS OF STRUCTURAL PLANTING SOIL. SEE SHEETS 17-18 FOR SPECIFIC LIMITS OF WATERPROOFING.

Tree Planting/ Structural Soil



9

TREE PLANTING IN STRUCTURAL SOIL

SCALE: 3/8" = 1'-0"

section

Tree Planting/ Ginkos



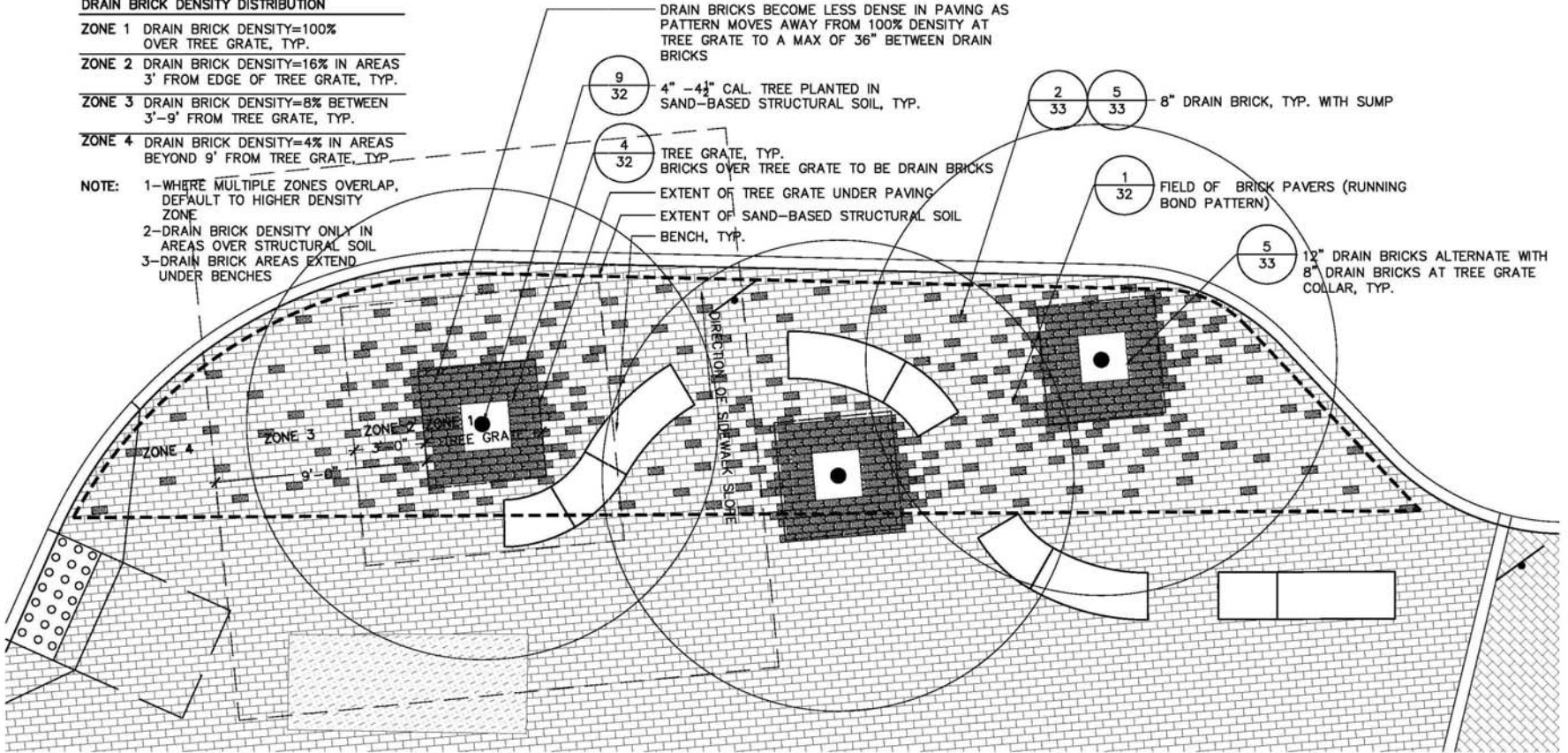
Water Harvesting

DRAIN BRICK DENSITY DISTRIBUTION

- ZONE 1 DRAIN BRICK DENSITY=100% OVER TREE GRATE, TYP.
- ZONE 2 DRAIN BRICK DENSITY=16% IN AREAS 3' FROM EDGE OF TREE GRATE, TYP.
- ZONE 3 DRAIN BRICK DENSITY=8% BETWEEN 3'-9' FROM TREE GRATE, TYP.
- ZONE 4 DRAIN BRICK DENSITY=4% IN AREAS BEYOND 9' FROM TREE GRATE, TYP.

NOTE: 1-WHERE MULTIPLE ZONES OVERLAP, DEFAULT TO HIGHER DENSITY ZONE
 2-DRAIN BRICK DENSITY ONLY IN AREAS OVER STRUCTURAL SOIL
 3-DRAIN BRICK AREAS EXTEND UNDER BENCHES

DRAIN BRICKS BECOME LESS DENSE IN PAVING AS PATTERN MOVES AWAY FROM 100% DENSITY AT TREE GRATE TO A MAX OF 36" BETWEEN DRAIN BRICKS



6

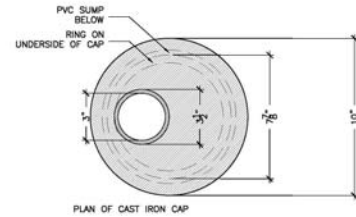
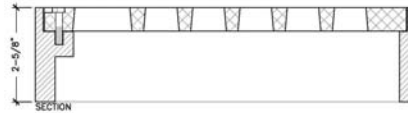
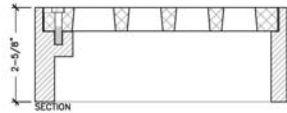
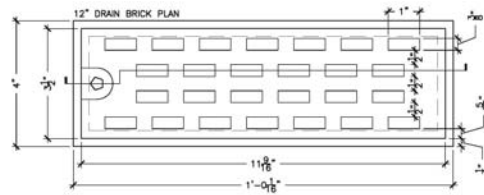
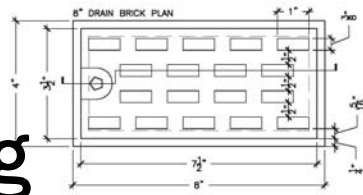
DRAIN BRICK LAYOUT TYP.

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

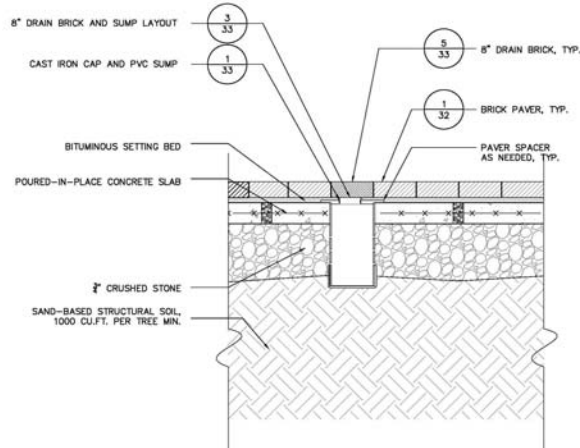
PLAN

Water Harvesting

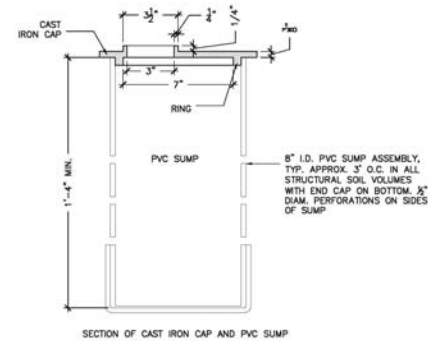
NOTES:
 1. DRAIN BRICK TO BE CAST (GREY) IRON.
 2. DRAIN BRICK TO ACCOMMODATE N-20 LOADING.



5 DRAIN BRICK
 SCALE: 6" = 1'-0" AS NOTED



2 SUMP
 SCALE: 1" = 1'-0" SECTION



1 SUMP ASSEMBLY
 SCALE: 3" = 1'-0" SECTION

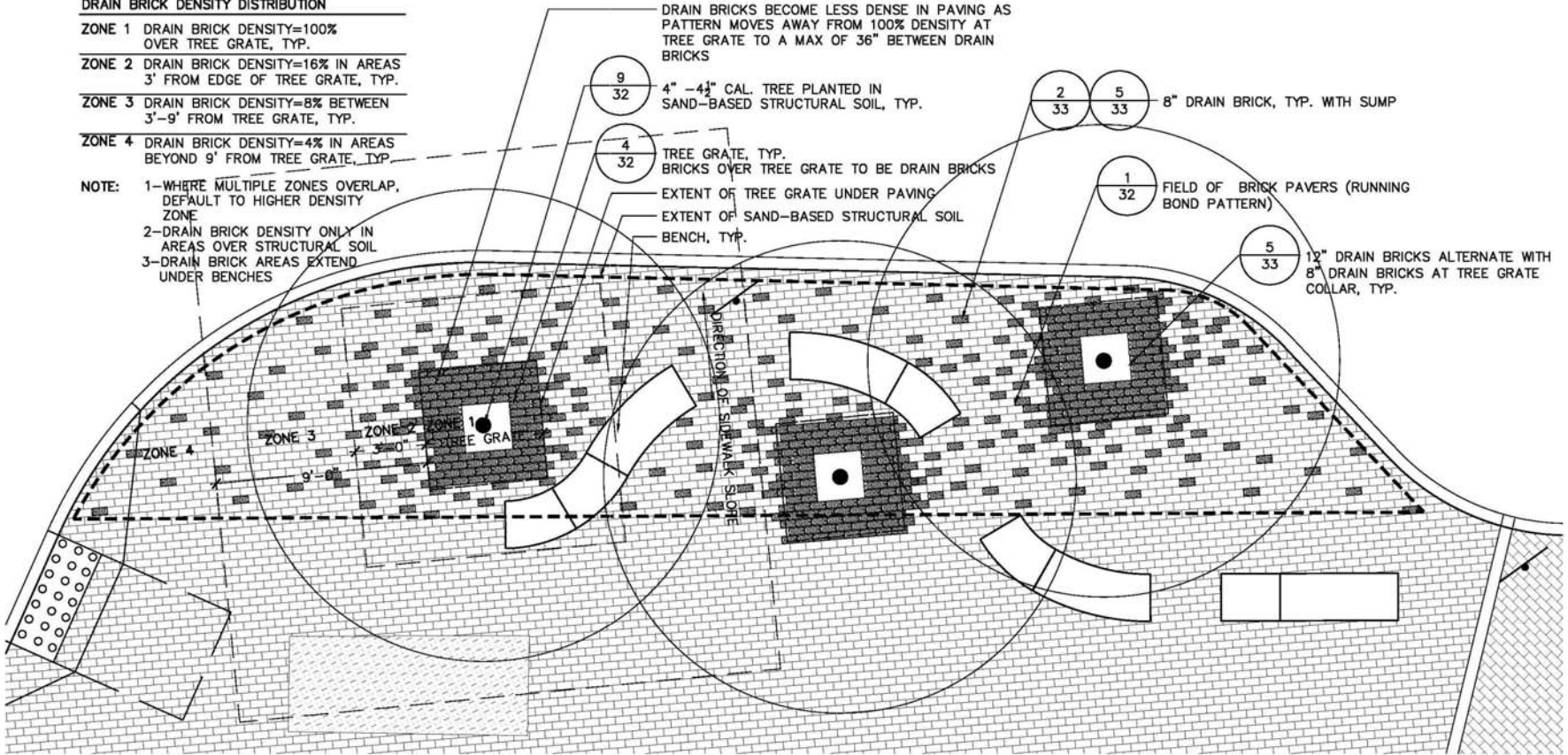
Water Harvesting

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DRAIN BRICKS BECOME LESS DENSE IN PAVING AS PATTERN MOVES AWAY FROM 100% DENSITY AT TREE GRATE TO A MAX OF 36" BETWEEN DRAIN BRICKS



9
32

4
32

2
33

5
33

1
32

5
33

4" - 4 1/2" CAL. TREE PLANTED IN SAND-BASED STRUCTURAL SOIL, TYP.

8" DRAIN BRICK, TYP. WITH SUMP

TREE GRATE, TYP. BRICKS OVER TREE GRATE TO BE DRAIN BRICKS
 EXTENT OF TREE GRATE UNDER PAVING
 EXTENT OF SAND-BASED STRUCTURAL SOIL
 BENCH, TYP.

FIELD OF BRICK PAVERS (RUNNING BOND PATTERN)

12" DRAIN BRICKS ALTERNATE WITH 8" DRAIN BRICKS AT TREE GRATE COLLAR, TYP.

DIRECTION OF SIDEWALK SLOPE

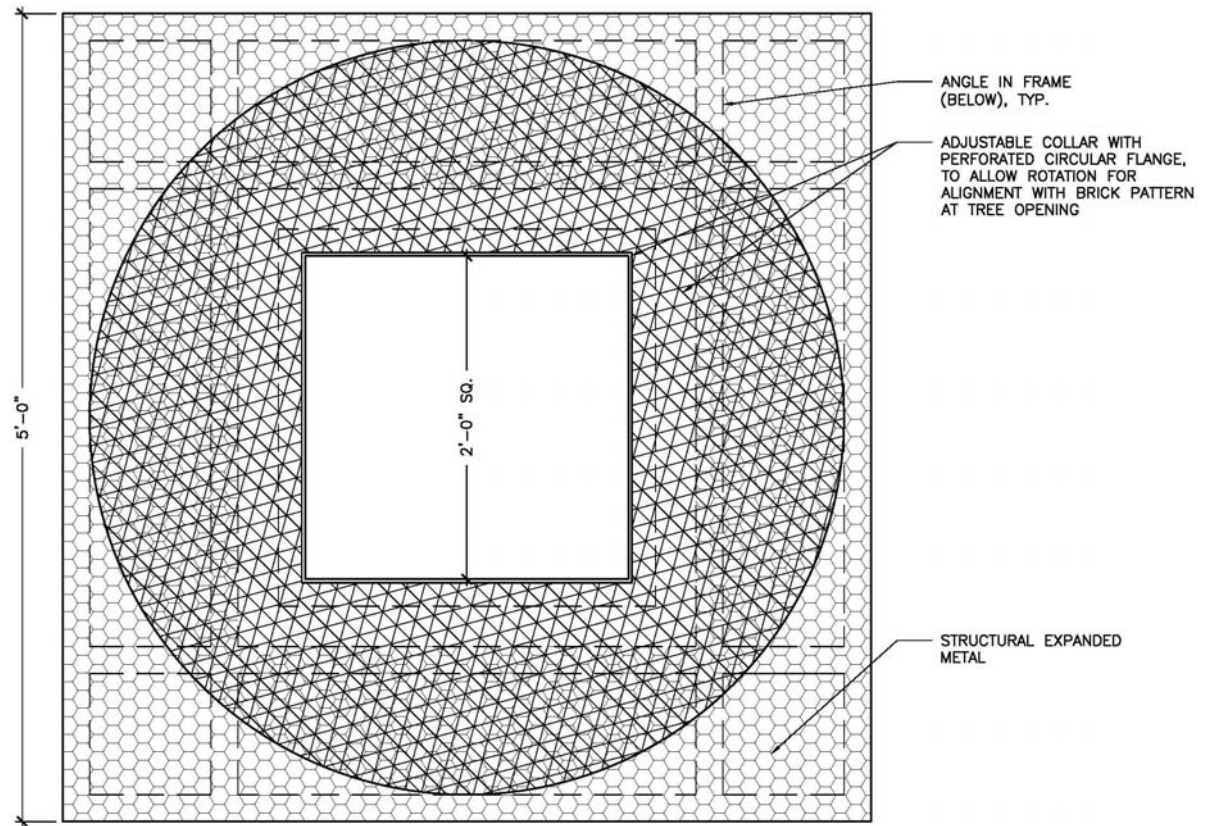
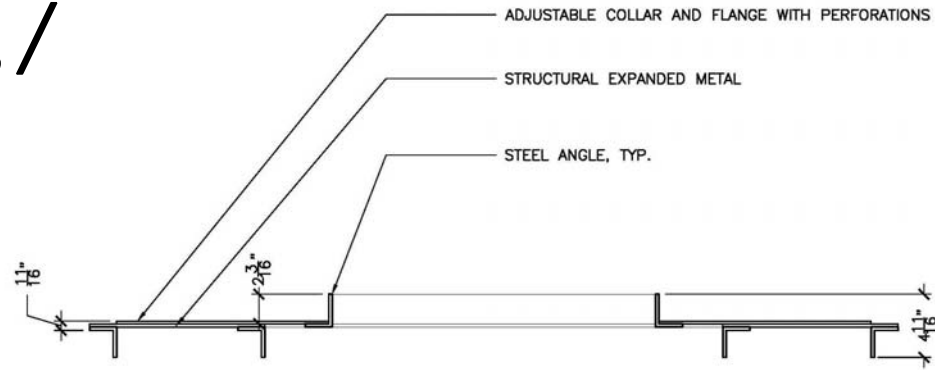
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DRAIN BRICK LAYOUT TYP.

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

PLAN

Water Harvesting / Paver Grates



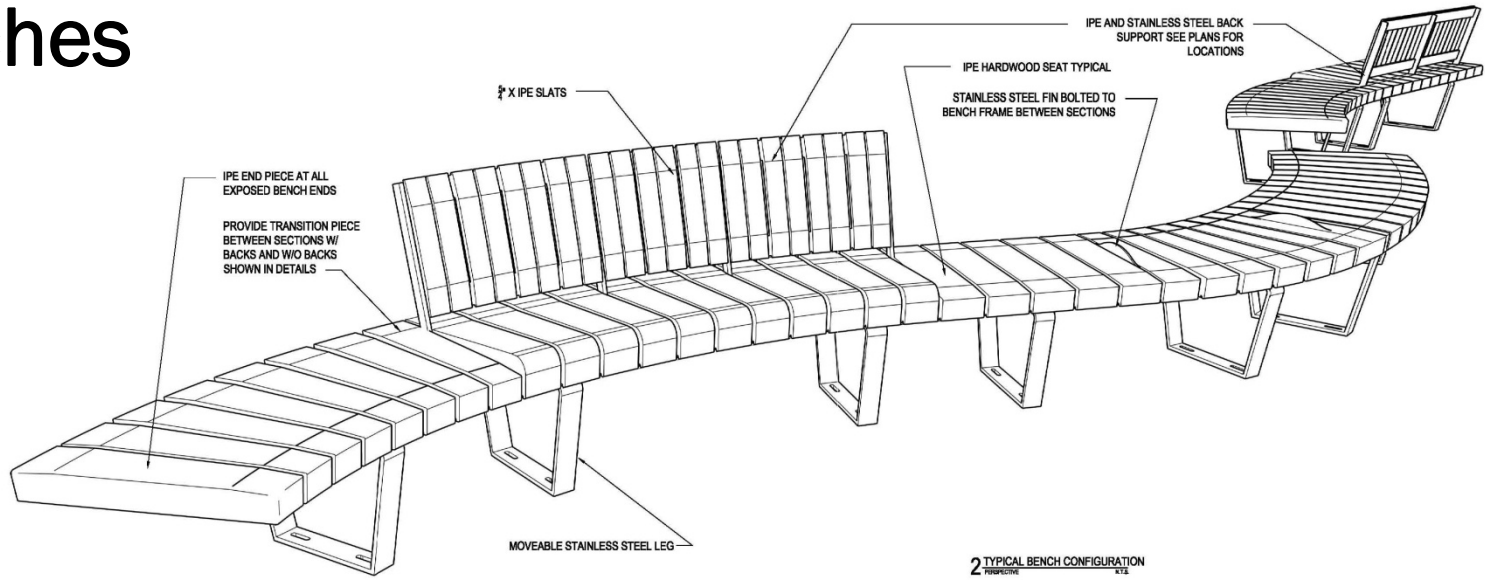
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TREE GRATE

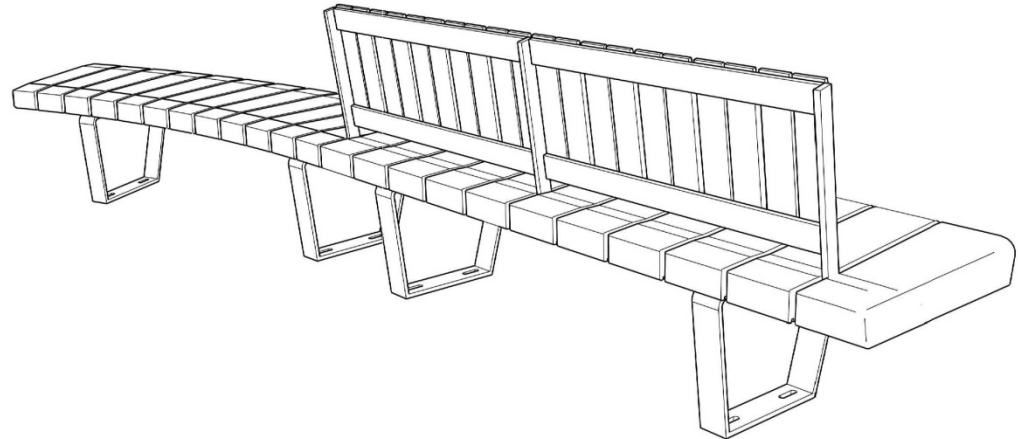
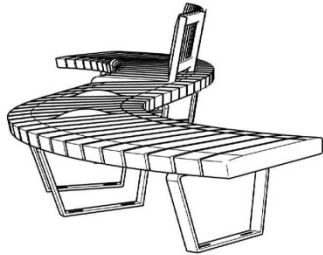
SCALE: 1 1/2" = 1'-0"

PLAN/SECTION

Benches

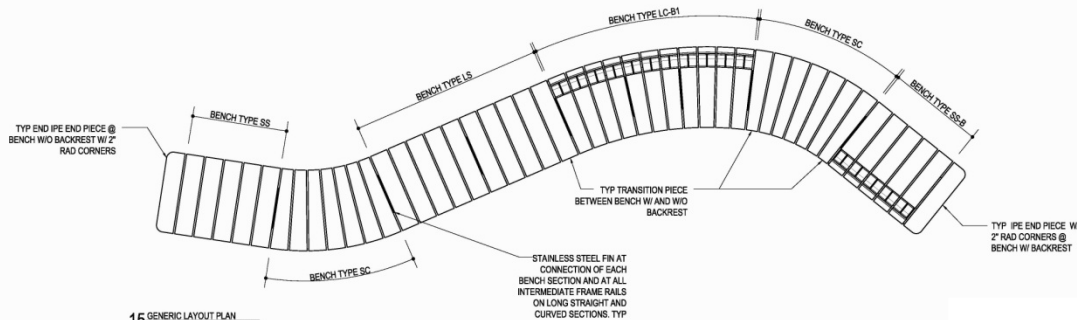
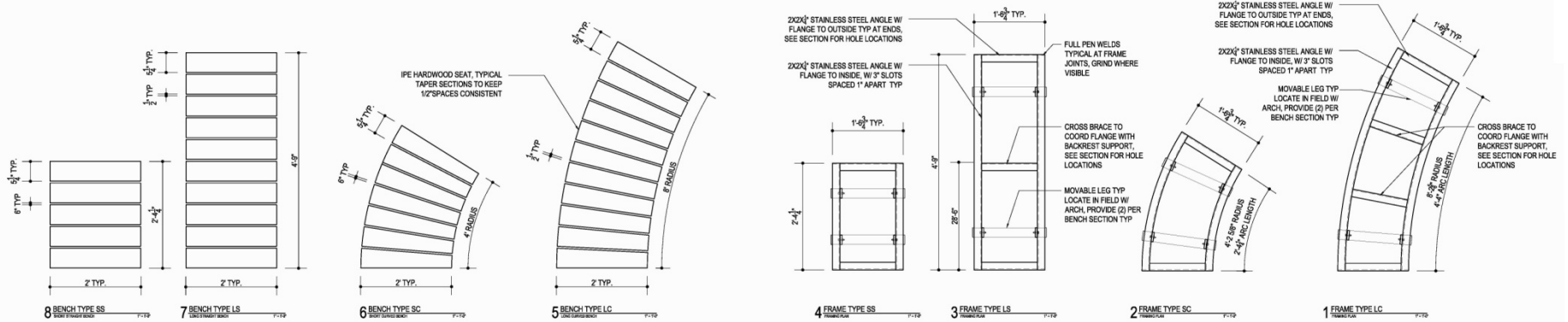
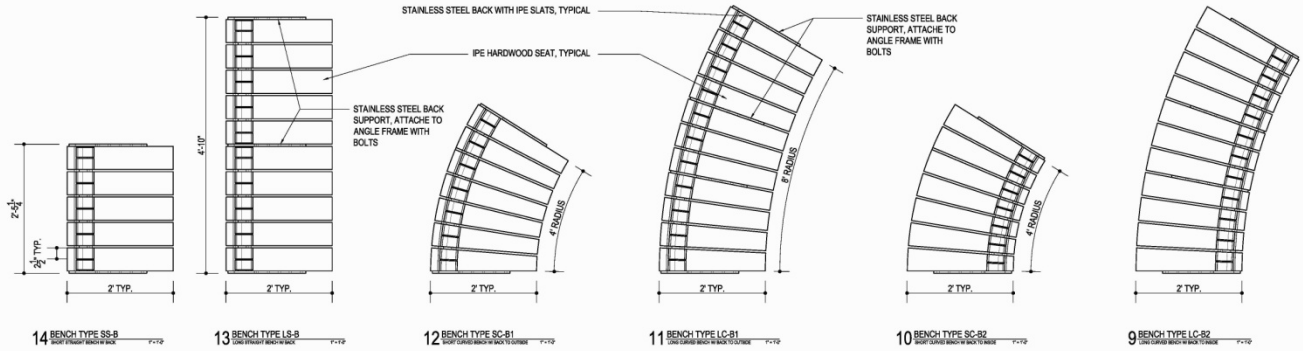


FOR MORE DETAILED INFORMATION ON THE BENCHES SEE SHEETS 35 AND 36.



1 TYPICAL BENCH CONFIGURATION
PERSPECTIVE

Benches



Schedule:

- September 10, 2009: Bid Opening
- Fall 2009/Winter 2010: Review of shop drawings and submittals
- April 1, 2010: Construction begins

General Conditions:

- Hours of Work:
 - M-F 9:30a – 3:30p
 - May seek 7:00a – 3:30p as needed
- Traffic to remain 2-way (typical)
- One-Way Traffic detours allowed, except at 75 State Garage

General Conditions continued:

- Parking plan:
 - Minimum of nine 30' commercial parking spaces
 - All parking to be Commercial (30 minute max.)
 - No 2 hour parking spaces or meters

Project Sign (Example)

TOGETHER, WE CAN

Invest in Neighborhoods

Broad Street Reconstruction

Project #09-22

Boston Public Works Department

Cities
Are
Neighborhoods



Thomas M. Menino, Mayor
City of Boston

General Conditions:

- Daily site clean-up including dust control and street and sidewalk closures (steel plate, etc.)
- Equipment and staging plan (including overnight storage) being developed with BTD
- Temporary pedestrian requirements
 - Entryway/retail access maintained
 - ADA-compliant ramps required
- Police Details provided (3 officers + Sgt.)

Communications:

- City of Boston 24-hour Hotline:

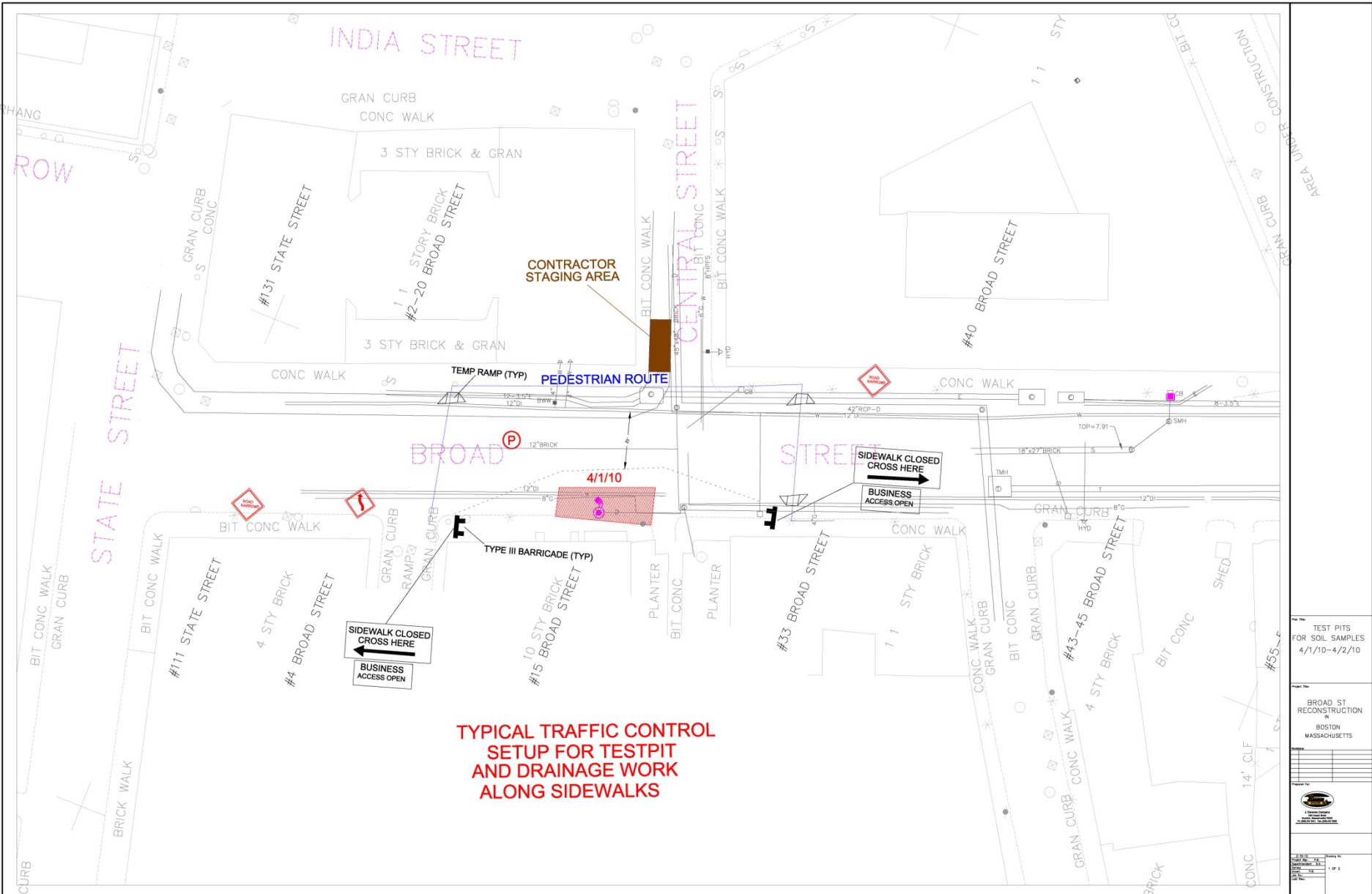
* 617-635-4500 *

- Bi-weekly project status email prepared and distributed by BRA Project Manager or Resident Engineer

Communications:

- Project Update example distributed
- Bi-weekly emails from BRA P.M. or Res. Engineer
- Site and utility coordination process
- Tenant issues, coordination process
- Public Meeting in mid-March
-

Work Zone Diagram - Test Pits (Example):



TEST PITS FOR SOIL SAMPLES
4/1/10-4/2/10

BROAD ST RECONSTRUCTION
BOSTON MASSACHUSETTS

DATE: 4/1/10
SCALE: 1" = 10'

PROJECT NO. 10-00000000

DATE: 4/1/10

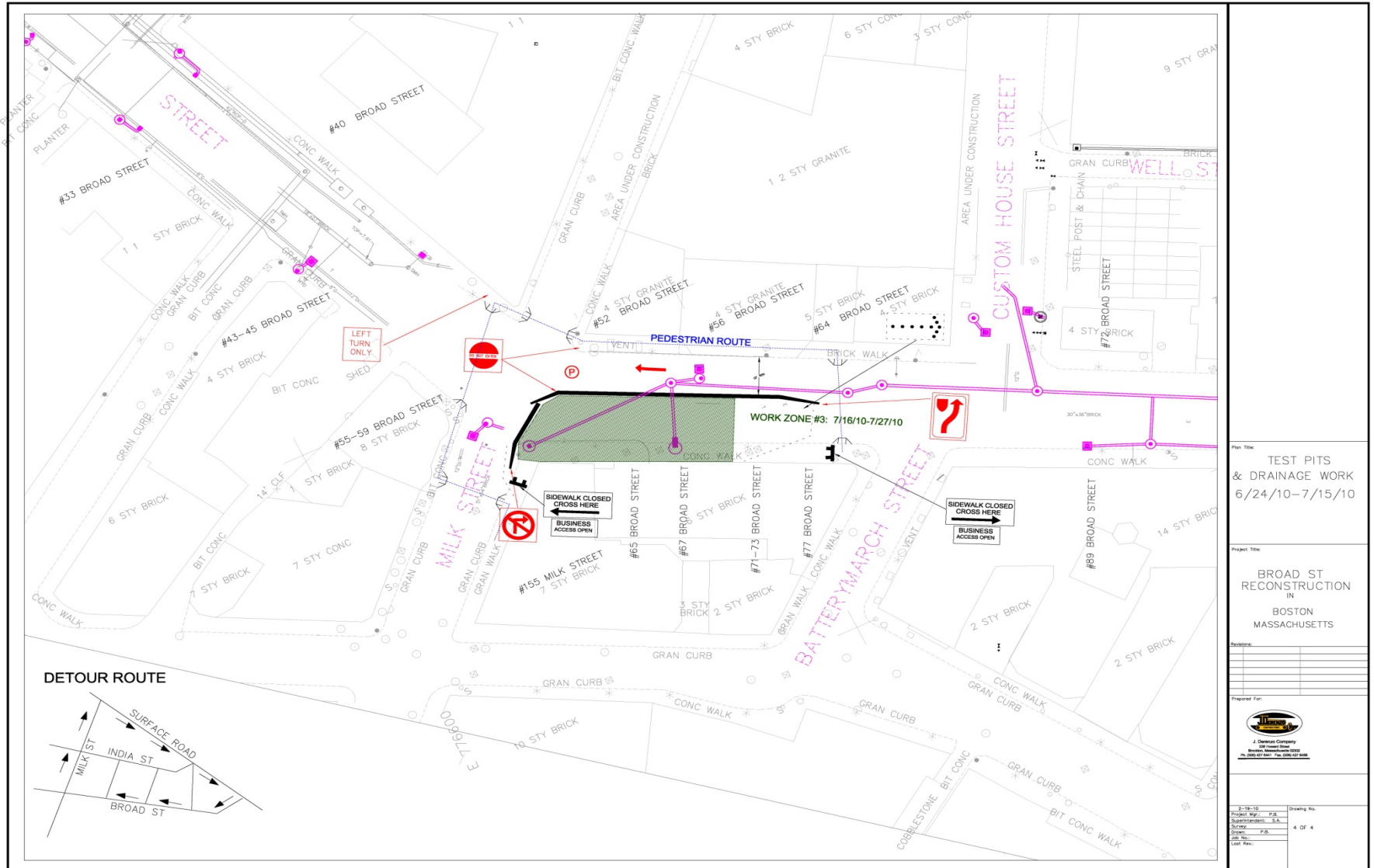
SCALE: 1" = 10'

PROJECT NO. 10-00000000

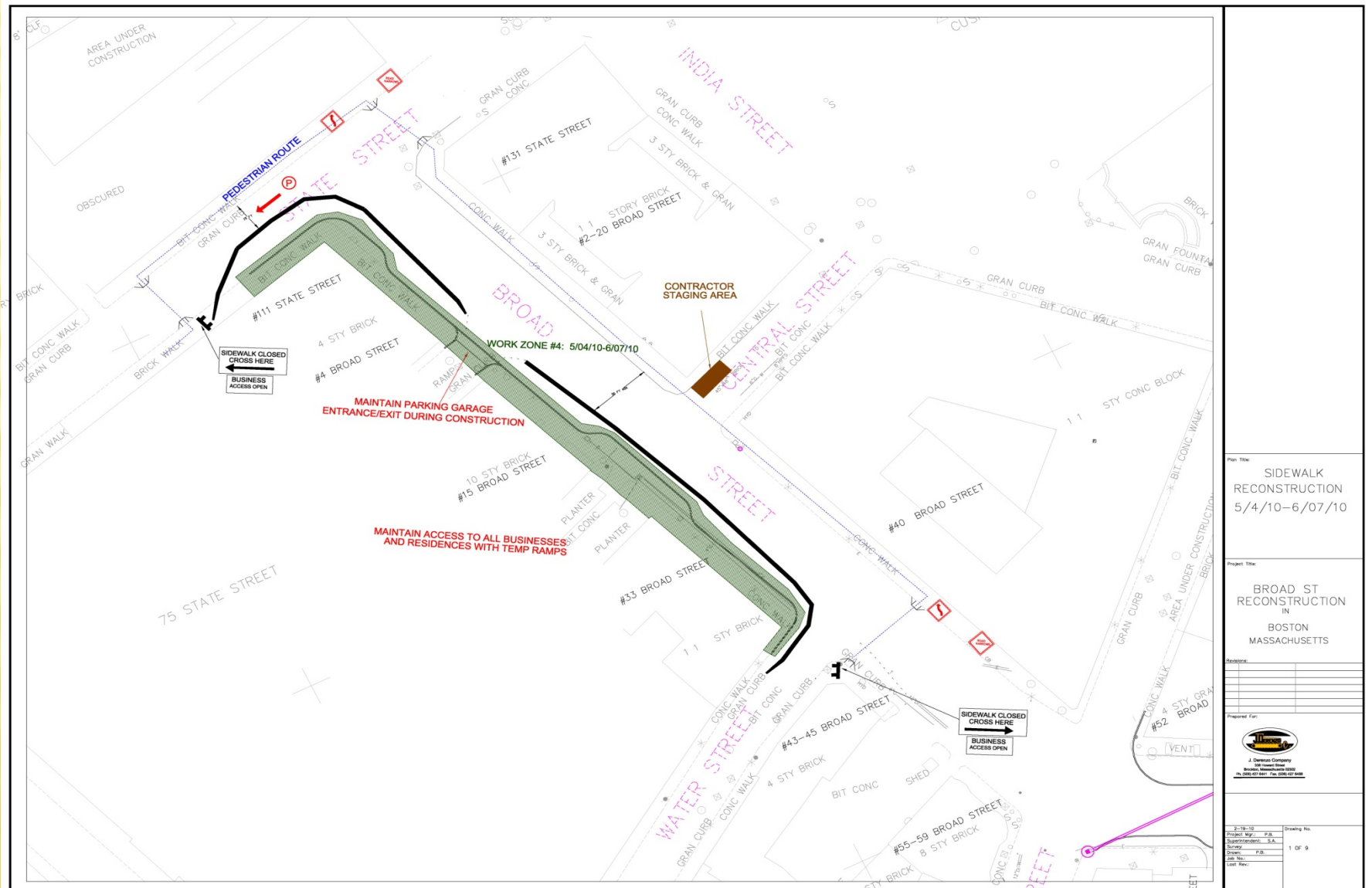
Work Zone Diagram - Drainage (Example):



Work Zone Diagram - Areaway/Excavation (Example):

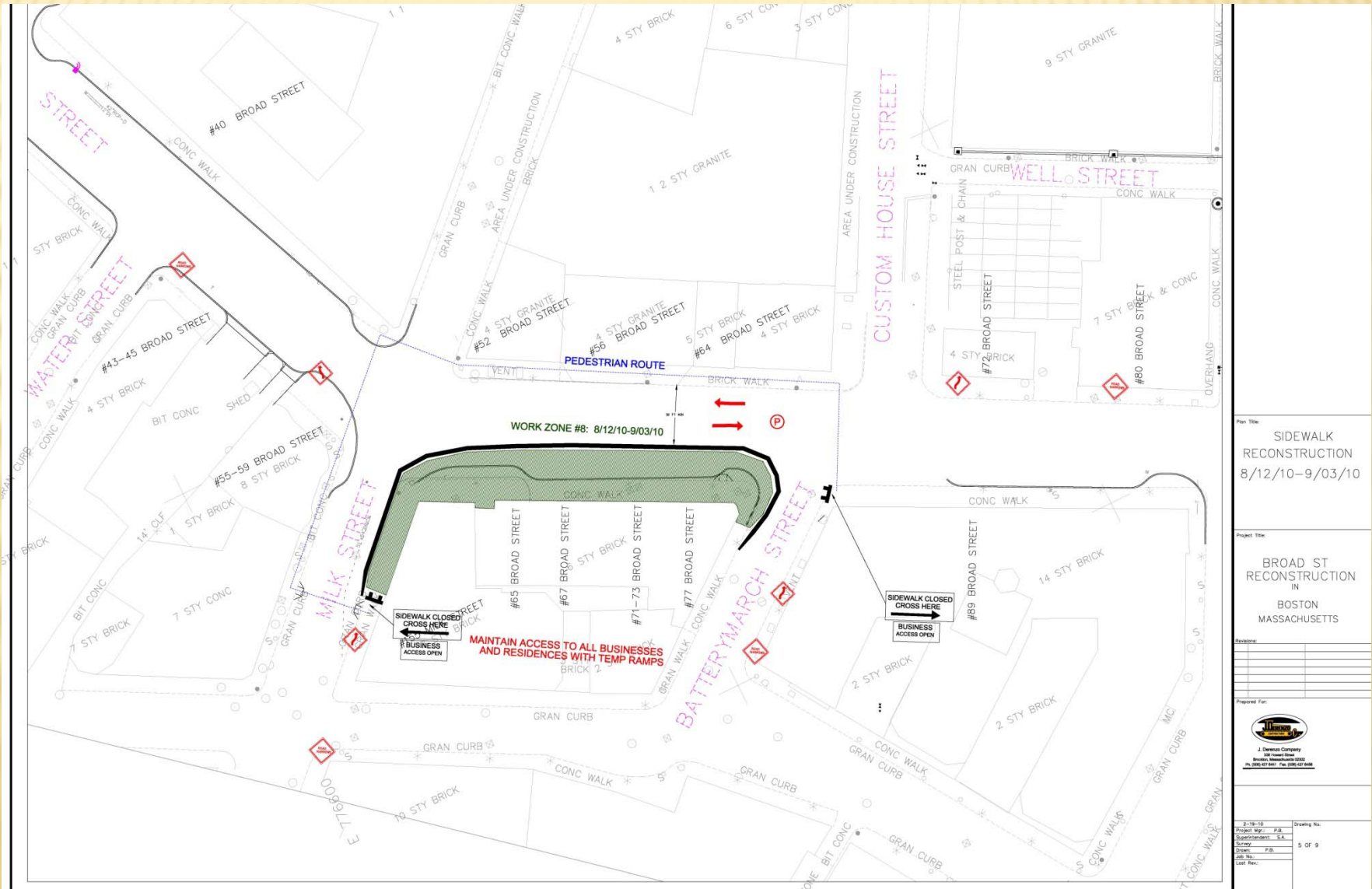


Work Zone Diagram – Sidewalk resurfacing (Example):



Plan Title	SIDWALK RECONSTRUCTION 5/4/10-6/07/10
Project Title	BROAD ST RECONSTRUCTION IN BOSTON MASSACHUSETTS
Revision	
Prepared For:	 J. Deane Company Boston, Vermont Street Ph: 603.661.4444 Fax: 603.661.4444
Sheet No.	1 OF 9

Work Zone Diagram - Excavation and Sidewalk resurfacing (Example):



Form Title:
SIDEWALK RECONSTRUCTION
 8/12/10-9/03/10

Project Title:
BROAD ST RECONSTRUCTION
 IN
 BOSTON
 MASSACHUSETTS

Revisions:

No.	Description

Prepared For:



J. Davidson Company
 500 Forest Street
 Boston, Massachusetts 02108
 Tel: (617) 457-4411 Fax: (617) 457-4414

Discussion and Questions

Mayor's 24 Hour Hotline:

* 617-635-4500 *

Peter D. Gori

peter.gori.bra@cityofboston.gov

617-918-4451