

CHAPTER 27: DOWNTOWN STREETScape STANDARDS

- 27.00 Introduction and Goals**
- 27.01 Streetscape Elements**
- 27.02 Streetscape Details**
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27.00 INTRODUCTION AND GOALS

The purpose of this chapter is to provide guidance for the design and construction of streetscape elements in accordance with criteria and standards established by the City of Champaign. The goal is to design and construct streetscape elements in the downtown area in accordance with this chapter of the Manual of Practice, and Section 30-46 and 30-47 of the City Code. The downtown area is illustrated in Attachment 26.00.



Revisions	Date	Not to Scale
File Name	CITY OF CHAMPAIGN DOWNTOWN AREA	

27.01 STREETScape ELEMENTS

1. Paving and Curbs
 - a. PCC concrete with broom finish.
 - b. Brick paver strip with controlled low-strength material (CLSM) underlayment.
 - c. Entire right-of-way to be paved surface. Paving extends from back of curb to building face (if building face is within 5' of right-of-way).
 - d. 10' preferred primary clear walkway, 6' minimum (refer to ADA guidelines for additional requirements).
 - e. Painted "ladder" style crosswalks (without parallel lines) per Downtown Crosswalk Guidelines
 - f. Cast-in-place planter curb for all raised planter locations.

2. Lighting and Traffic Signals
 - a. Pedestrian Lights: Downtown standard, with approximate spacing of 70' o.c. alternate.
 - b. Vehicular Light Assembly: Downtown standard, spaced every other light, one side of the street.

Note: Spacing and requirements listed are approximate. Submit photometric calculations in conformance with Manual of Practice Chapter 13: Right-of-way Light Design and Construction Standards.

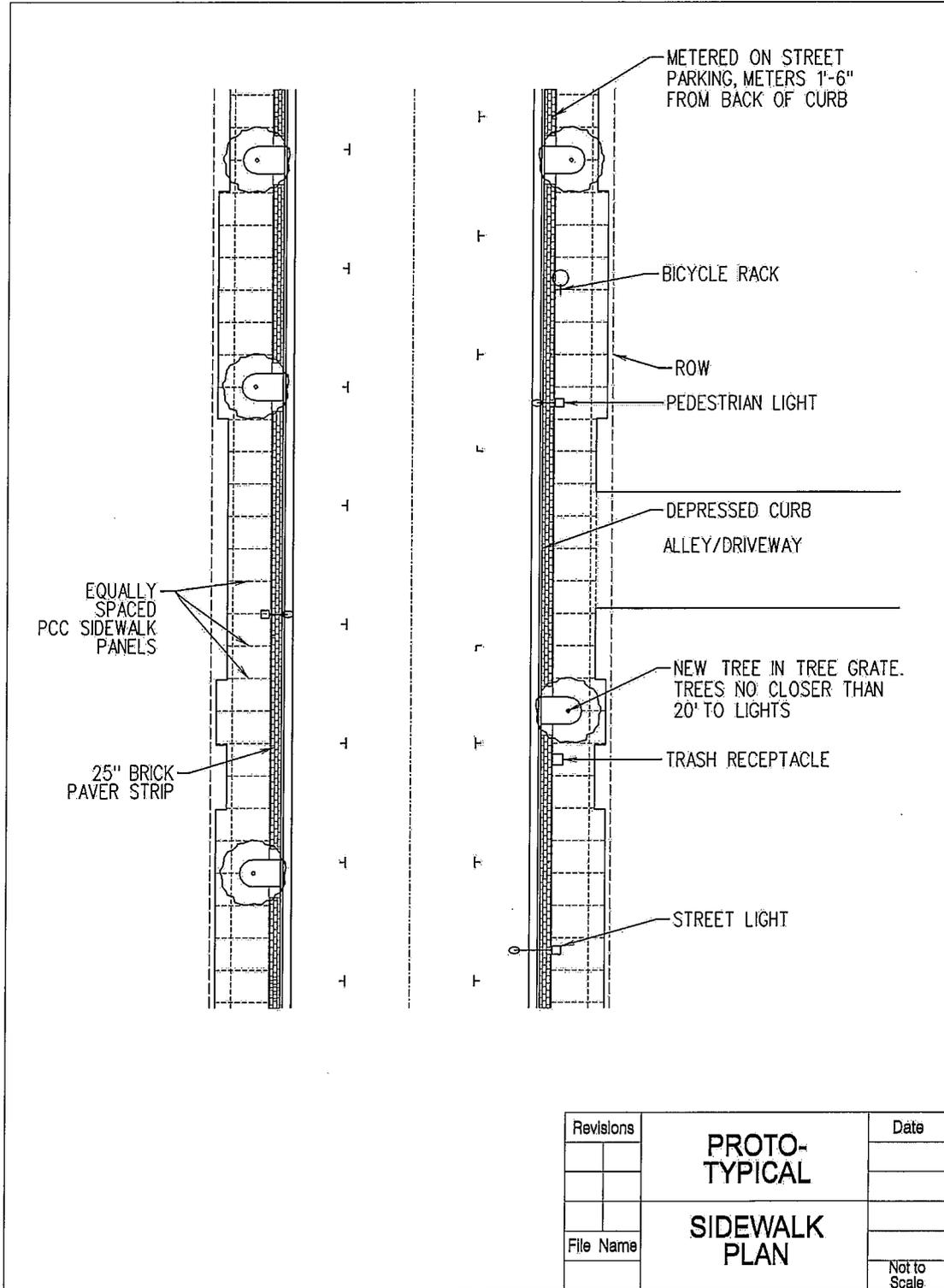
3. Street Furnishings
 - a. Bench: Located on a case-by-case basis – placement should not obstruct pedestrian flow.
 - b. Trash Receptacle: Located on a case-by-case basis - placement should not obstruct pedestrian traffic flow.
 - c. Bike Rack: Located on a case-by-case basis – placement should not obstruct pedestrian flow.
 - d. Ornamental Bollard: Placed at intersection locations to define accessible ramp and depressed curb areas, as needed.
 - e. Freestanding Planters: Size and number varies. Place at intersections and limited mid-block locations arranged near light poles. Evaluate on a case-by-case basis – placement should not obstruct pedestrian flow.
4. Signage and Specialties
 - a. Signage – Regulatory: Locate per City of Champaign Manual of Practice Chapter 12, Traffic Control and Regulatory Signage.

- b. Signage – Street Name: Internally Illuminated located on traffic signal poles where possible. Locate per City of Champaign Manual of Practice Chapter 12, Traffic Control and Regulatory Signage, where traffic signals do not exist.
 - c. High Visibility Pedestrian Signs per MUTCD Standards shall be provided at intersections where warranted by high pedestrian traffic levels.
5. Planting
- a. Trees: Preserve existing trees where possible. New trees placed in tree grates. Refer to Manual of Practice Chapter 24: Right-of-Way Street Tree Standards for approved species and other requirements.
 - b. Plant Materials: Submit per Article X: Landscaping of the City of Champaign Zoning Code.
6. Geometry and Engineering
- a. Specific roadway geometry and engineering related to curb radii, neckdowns, lane widths, drainage and other similar items to be determined based on specific project criteria. Refer to relevant Manual of Practice Chapters for additional information.

7. Specialty Areas / Elements

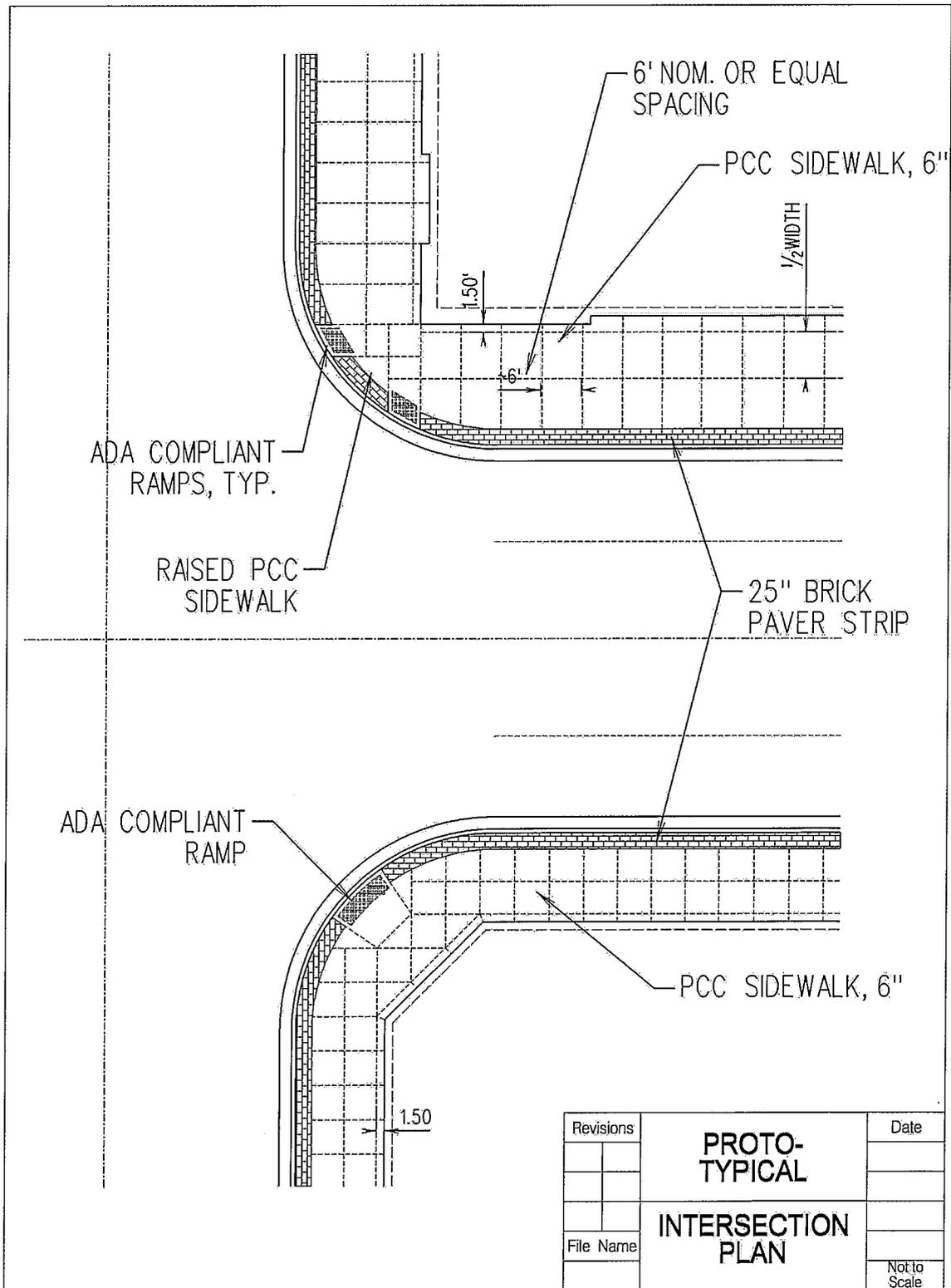
- a. Specialty Areas / Elements will be reviewed on a case-by-case basis and will be subject to City review and approval. Requirements as defined in other sections of the Manual of Practice will apply to Specialty Areas / Elements.
- b. Damage to Streetscape areas to be repaired in kind. All pavement repairs shall be full slab, and sidewalk repairs shall be full panels.
- c. Any projection into the right-of-way shall maintain a minimum clearance from adjacent trees, light poles and other elements as approved by the City.

Prototypical Street Plan



Revisions	PROTO-TYPICAL	Date
File Name	SIDEWALK PLAN	
		Not to Scale

Prototypical Intersection Plan



27.02 STREETScape DETAILS

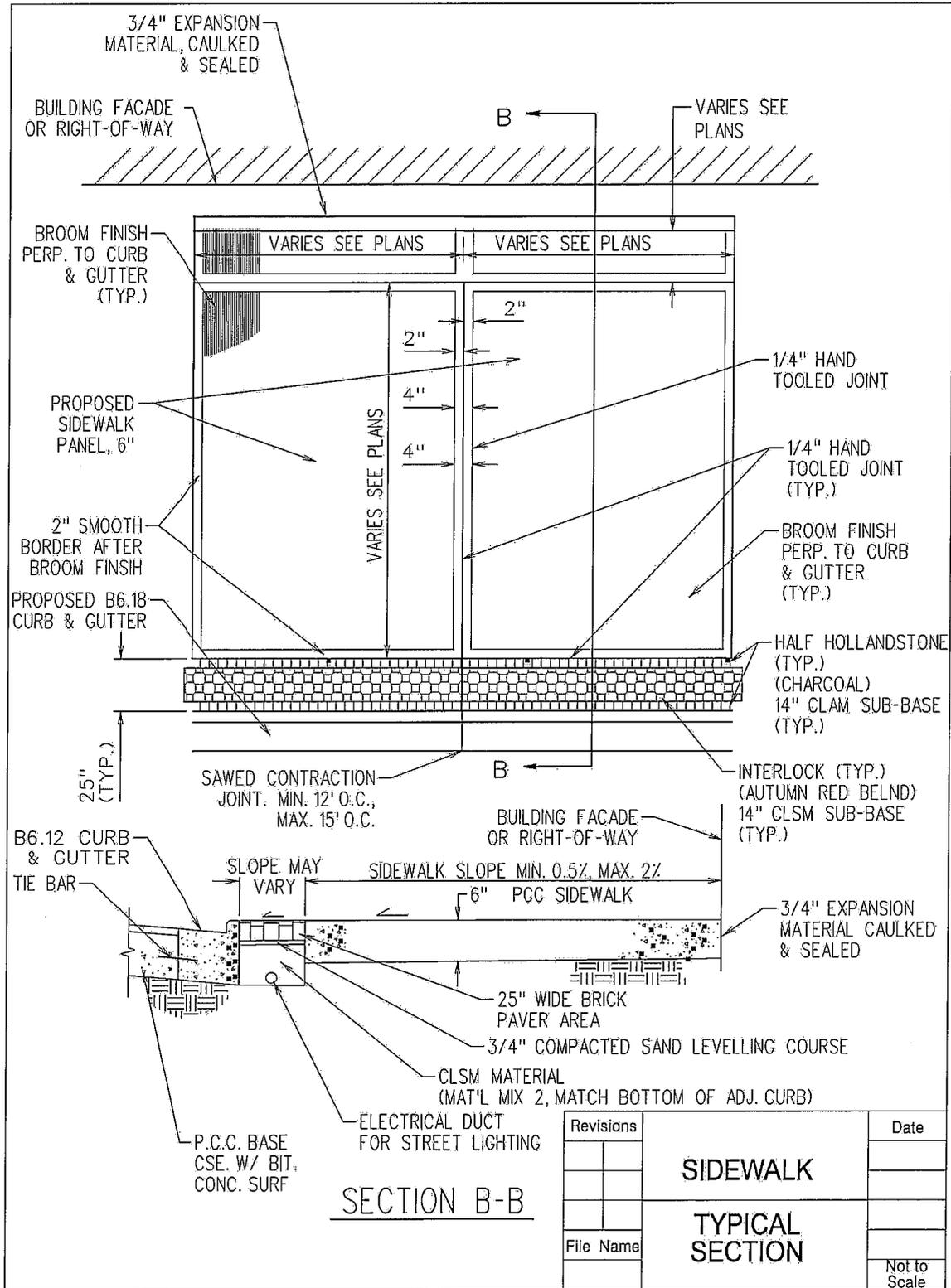
A. CITY OF CHAMPAIGN STANDARD DETAILS

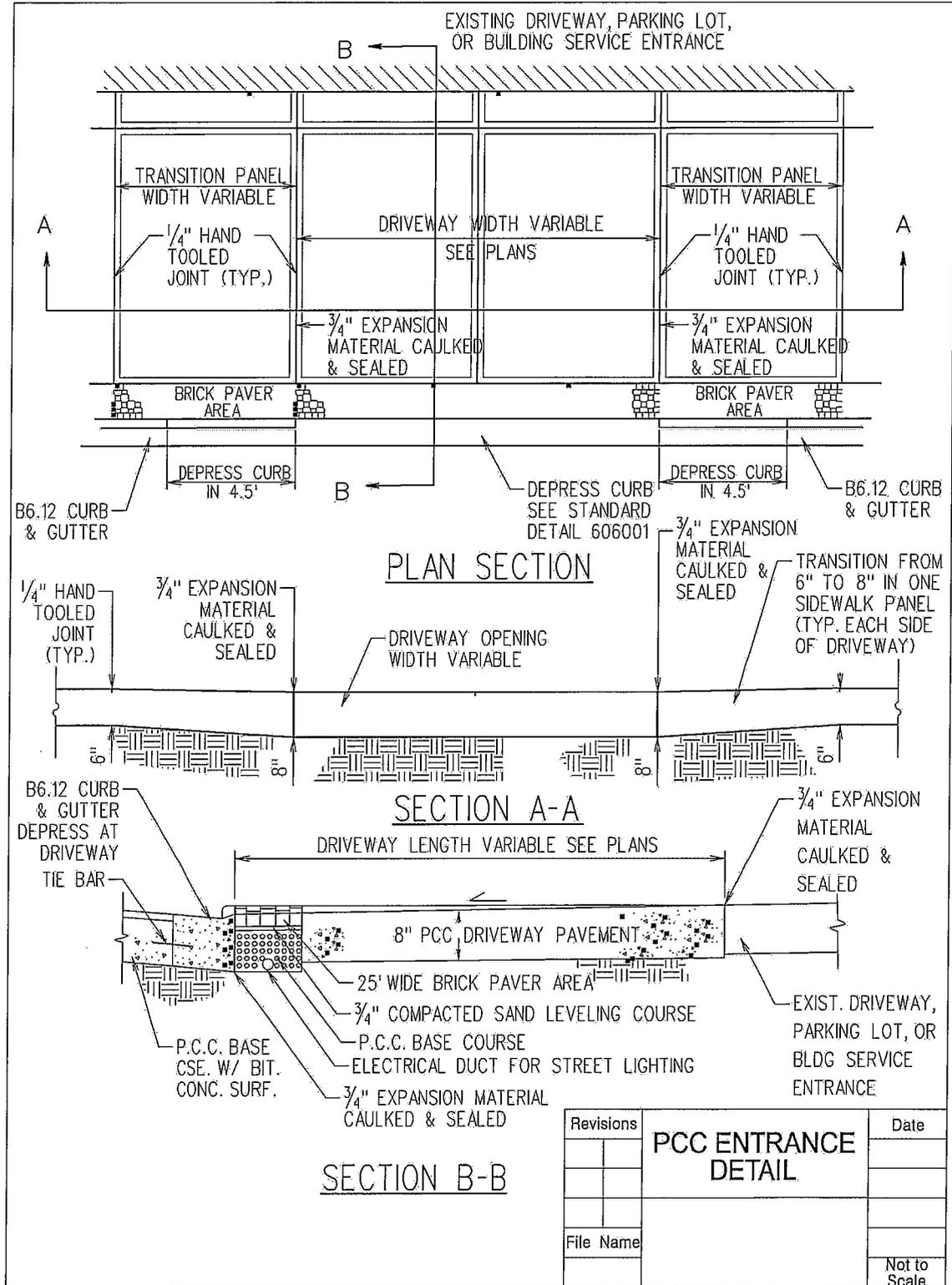
1. City of Champaign standard details as outlined in the Manual of Practice shall apply. Relevant Chapters of the Manual of Practice include:

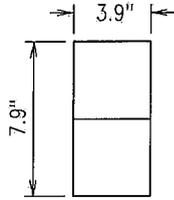
CHAPTER 10:	PAVEMENT
CHAPTER 11:	SIDEWALK
CHAPTER 12:	TRAFFIC CONTROL AND REGULATORY SIGNAGE
CHAPTER 13:	RIGHT-OF-WAY LIGHTING STANDARDS
CHAPTER 24:	RIGHT-OF-WAY STREET TREE STANDARDS

B. DOWNTOWN STREETScape STANDARD DETAILS

1. Paving and Curbs
 - a. Sidewalk – Typical Section & Plan
 - b. PCC Entrance Detail – Typical Section & Plan
 - c. Brick Paver Area Detail
 - d. Brick Paver – Terminal Point Detail
 - e. Accessible Sidewalk Ramps
 - f. Planter Curb – Cast-in-Place

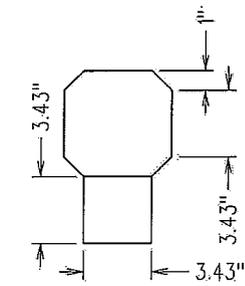




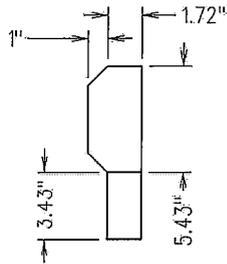


HALF HOLLANDSTONE
(COLOR GRAY)

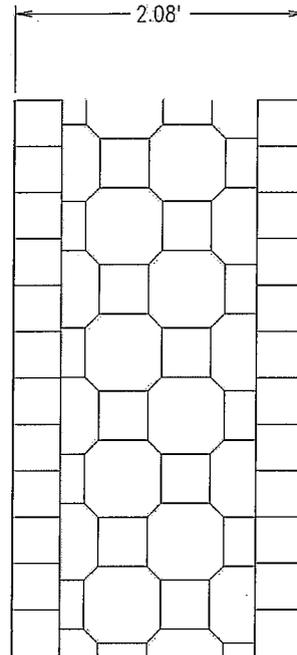
NOTE:
CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL LAYING WIDTH OF PAVER STRIP. DESIGN INTENT IS TO MINIMIZE CUTTING OF PAVERS. WIDTH OF PAVER STRIP IS APPROXIMATELY 25.0". CONTRACTOR SHALL CONSTRUCT MOCKUP FOR THE ENGINEERS INSPECTION & APPROVAL PRIOR TO PLACING STOCKPILED PAVERS. PAVERS SHALL BE COLOR BLENDED.



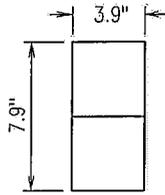
UNI-DECOR
(COLOR AUTUMN
RED BLEND)



UNI-DECOR EDGING
(COLOR AUTUMN RED
BLEND)

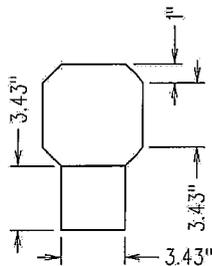


Revisions	BRICK PAVER AREA DETAIL	Date
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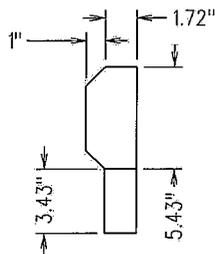


HALF HOLLANDSTONE
(COLOR GRAY)

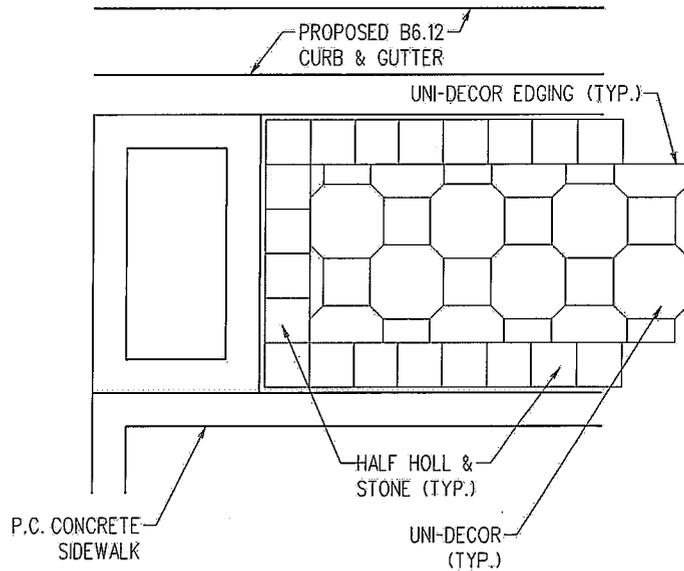
NOTE:
CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL LAYING WIDTH OF PAVER STRIP. DESIGN INTENT IS TO MINIMIZE CUTTING OF PAVERS. WIDTH OF PAVER STRIP IS APPROXIMATELY 25.0". CONTRACTOR SHALL CONSTRUCT MOCKUP FOR THE ENGINEERS INSPECTION & APPROVAL PRIOR TO ORDERING PAVERS. PAVER SHALL BE COLOR BLENDED WHILE LAYING FROM SEVERAL DIFFERENT PALLETS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.



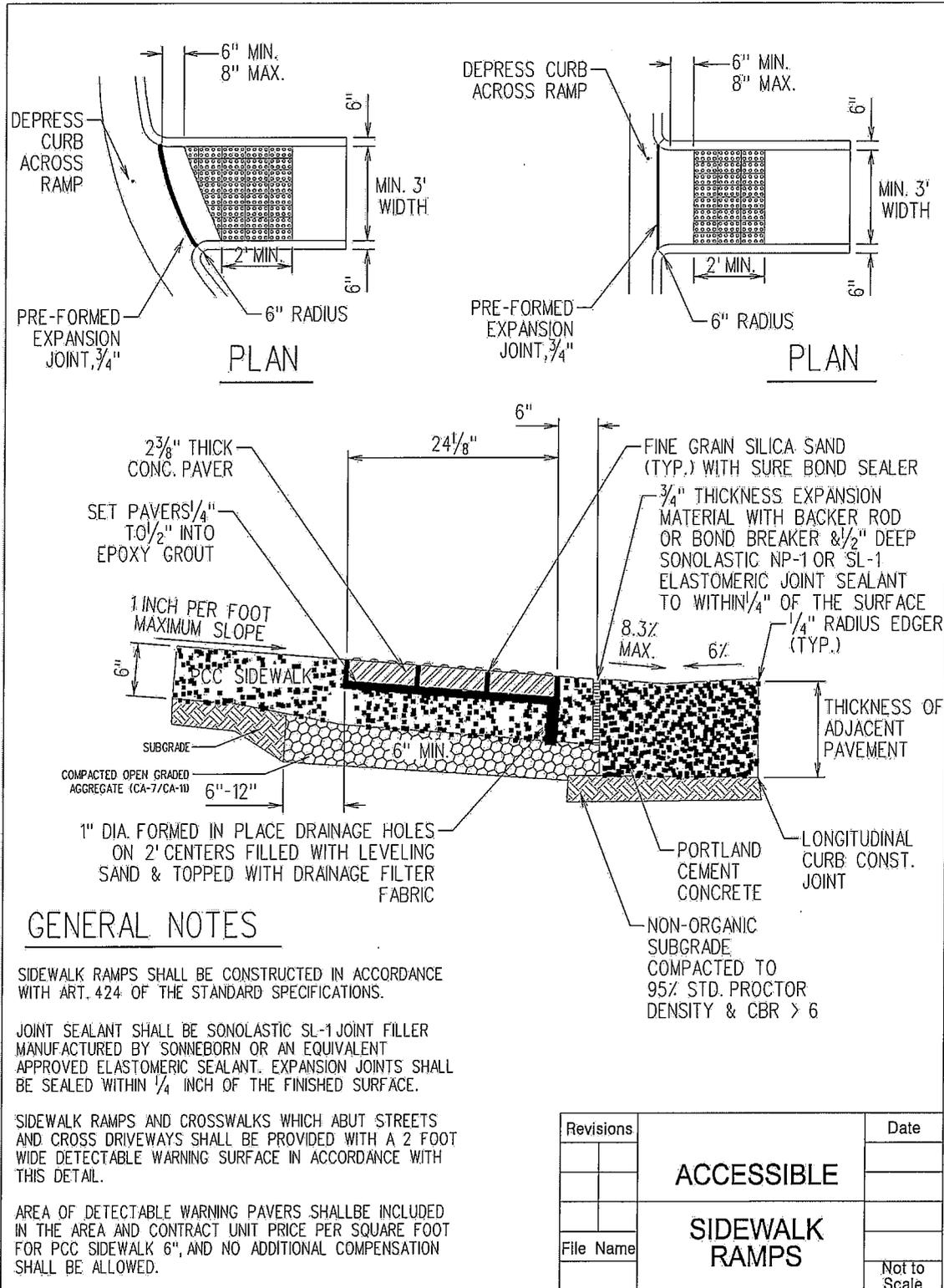
UNI-DECOR
(COLOR AUTUMN
RED BLEND)

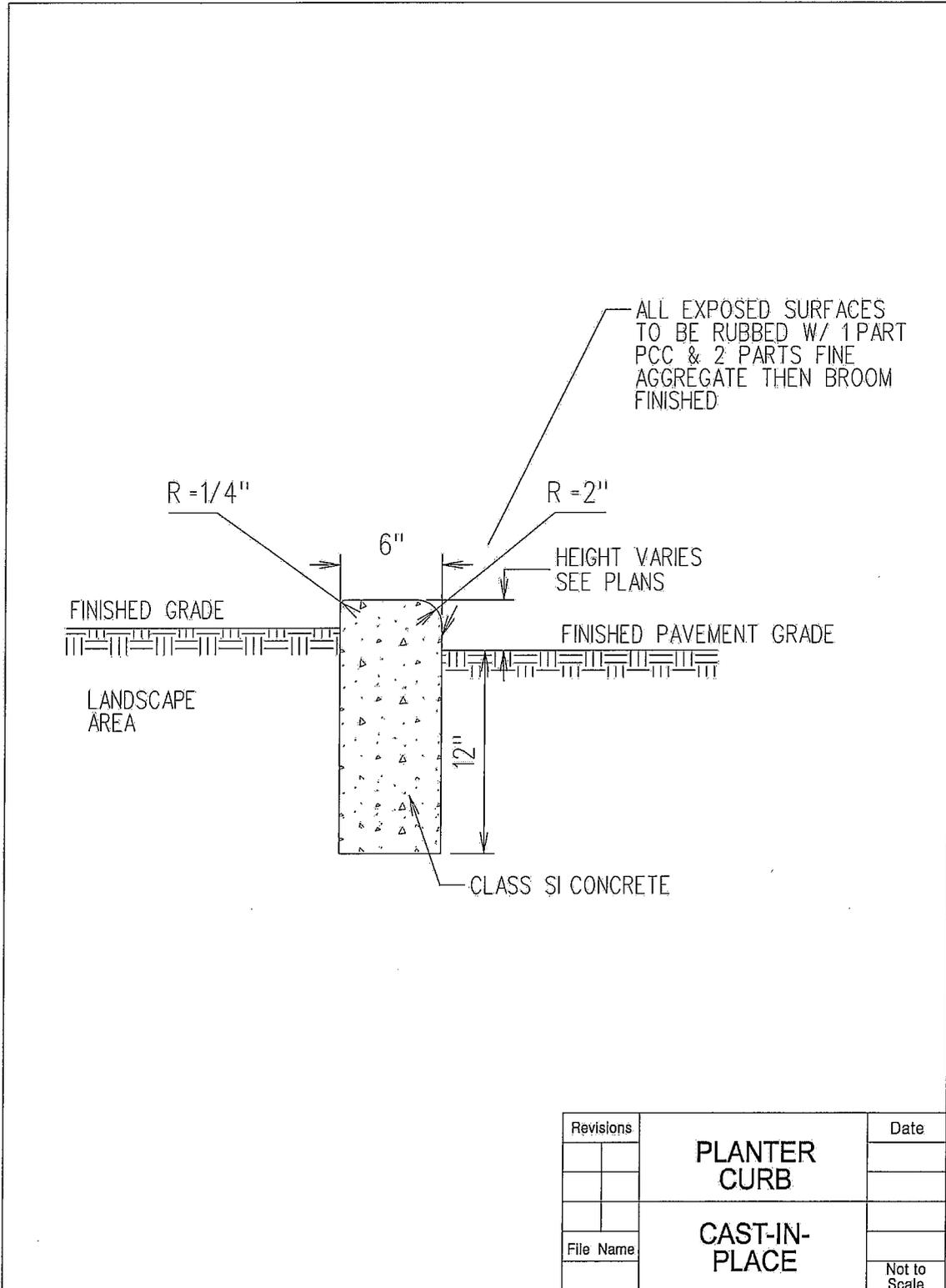


UNI-DECOR EDGING
(COLOR AUTUMN RED
BLEND)



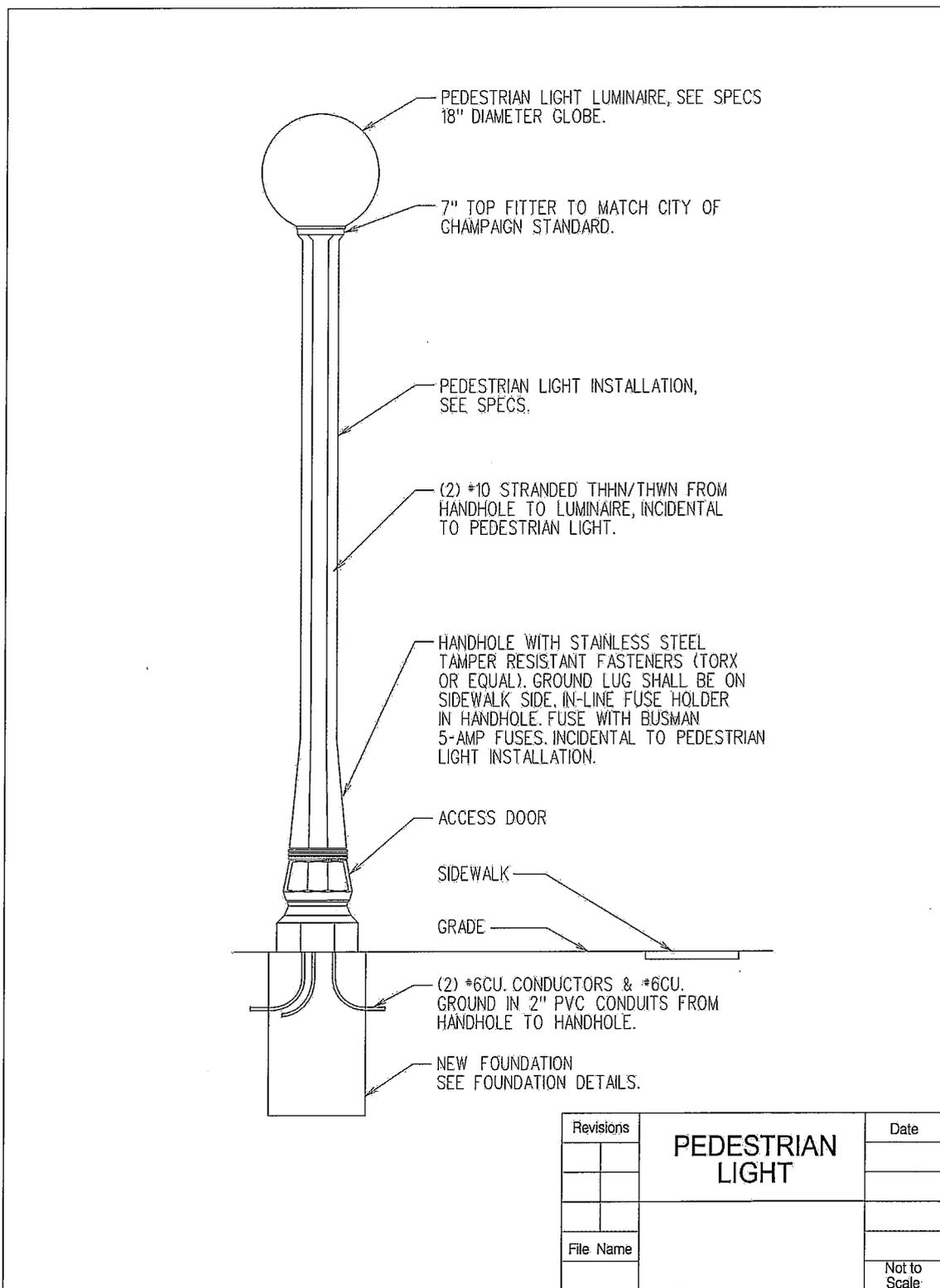
Revisions	BRICK PAVER AREA DETAIL	Date
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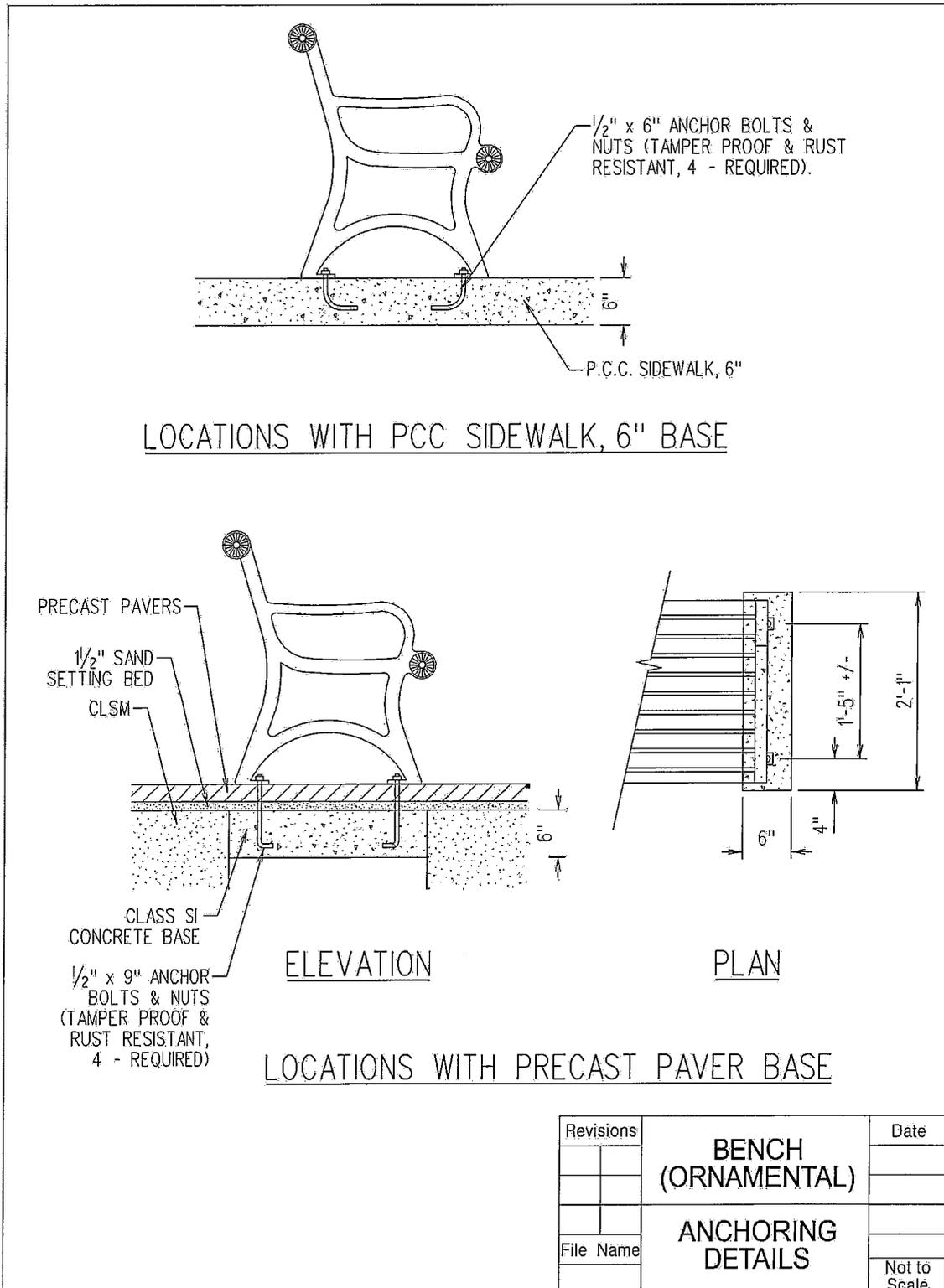
B. DOWNTOWN STREETScape STANDARD DETAILS (cont.)

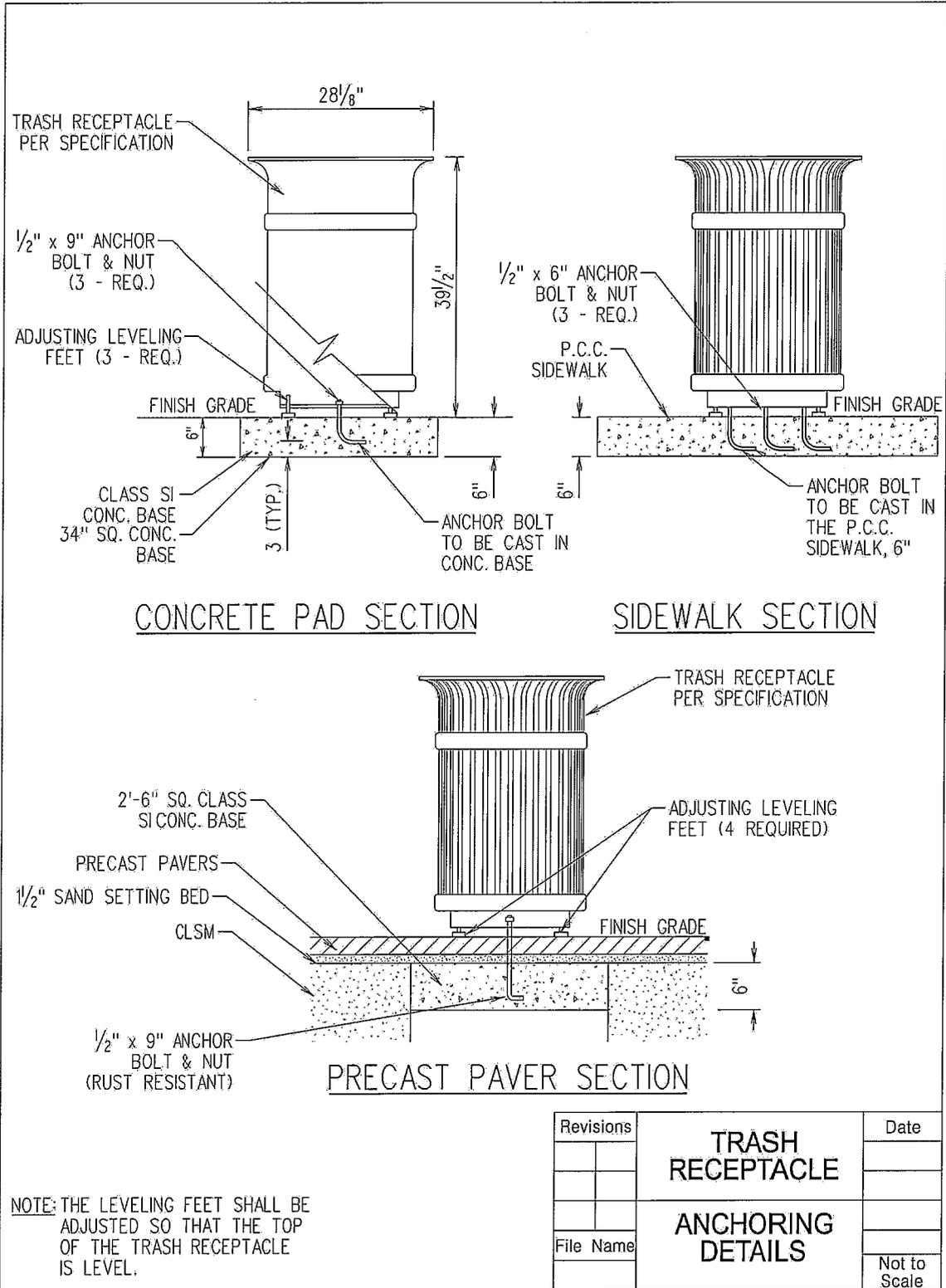
2. Street Lighting
 - a. Pedestrian Light
 - b. Street Light ?

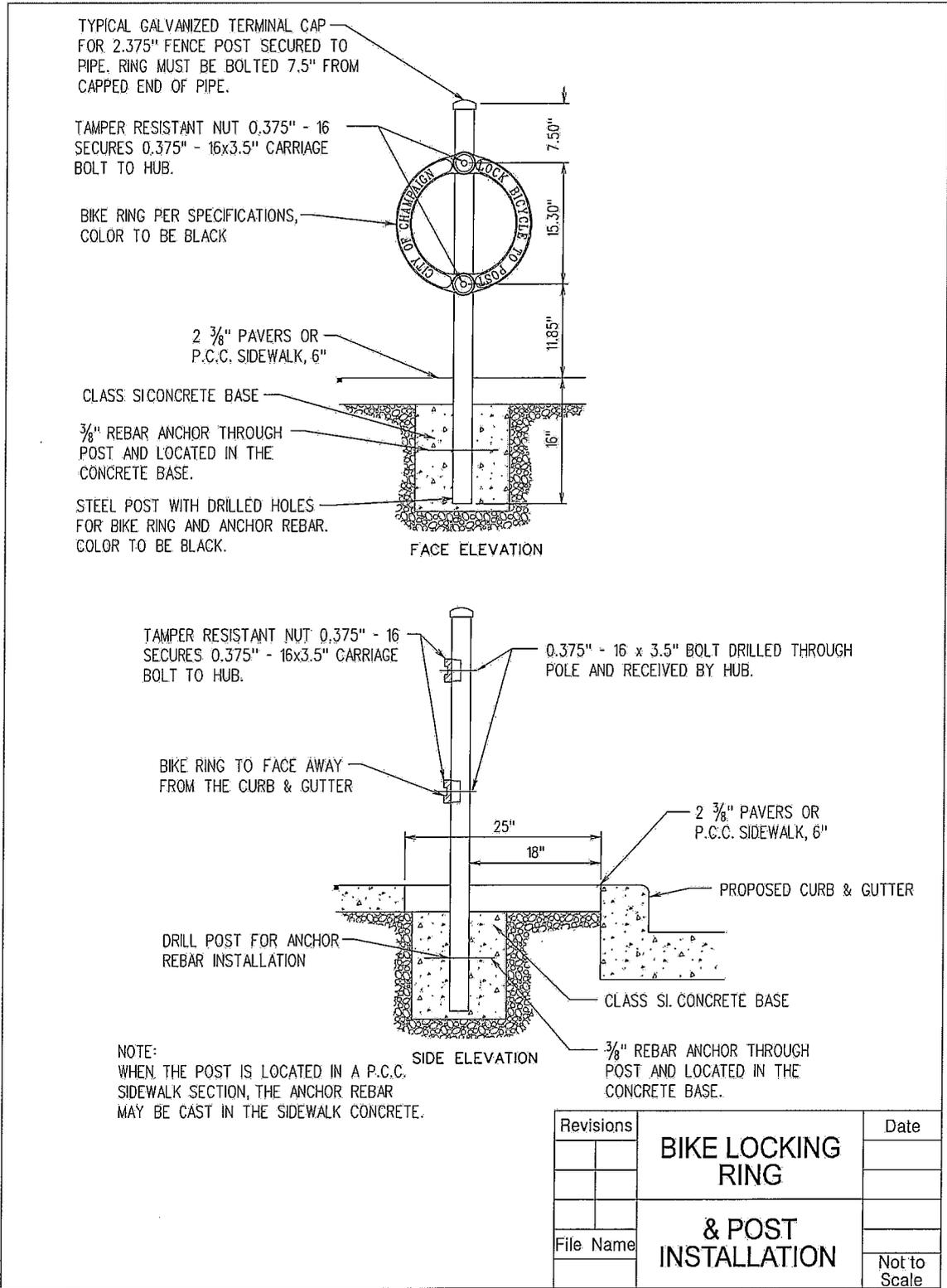


B. DOWNTOWN STREETScape STANDARD DETAILS (cont.)

3. Street Furnishings
 - a. Bench
 - b. Trash Receptacle
 - c. Bike Locking Ring
 - d. Ornamental Bollard
 - e. Ornamental Seat Wall
 - f. Freestanding Planter - Elevation
 - g. Freestanding Planter - Section







- ① THE BOLLARDS SHALL BE ONE PIECE HEAVY WALL CAST IRON WITH ACCESS DOOR TO BOLTS AT BASE.
- ② THE ORNAMENTAL BOLLARD SURFACE FINISH MATERIALS AND APPLICATION METHOD SHALL BE ONE COAT OF PRIMER THEN SAND WITH 400 GRIT SANDPAPER THEN TWO COATS OF GLOSS BLACK APPLIED TO A TOTAL FILM THICKNESS OF 3 MIL
- ③ THE NOMINAL HEIGHT SHALL BE 39 INCHES AND THE BASE DIAMETER SHALL BE 12 INCHES.
- ④ THE BOLLARD SHALL BE "BRIGHTON" STYLE AS MANUFACTURED BY TRYSTAN, 68 SWAN STREET, AYR, ONTARIO CANADA NOBLED, OR APPROVED EQUAL, THE UNITED STATES REPRESENTATIVE IS MARTIN MARION 1-800-495-3267.
- ⑤ THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING AN ORDER.

Revisions	Date
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	Not to Scale

1 PIECE HEAVY WALL CAST IRON BOLLARD, PER SPECIFICATIONS

(3) 3/4" x 24" x 3" HOOK FULLY GALVANIZED SET IN CONC. PILE. BOLT PROJECTION 3" ABOVE FOUNDATION. BOLT TEMPLATE SHALL BE SUPPLIED BY MANUFACTURER.

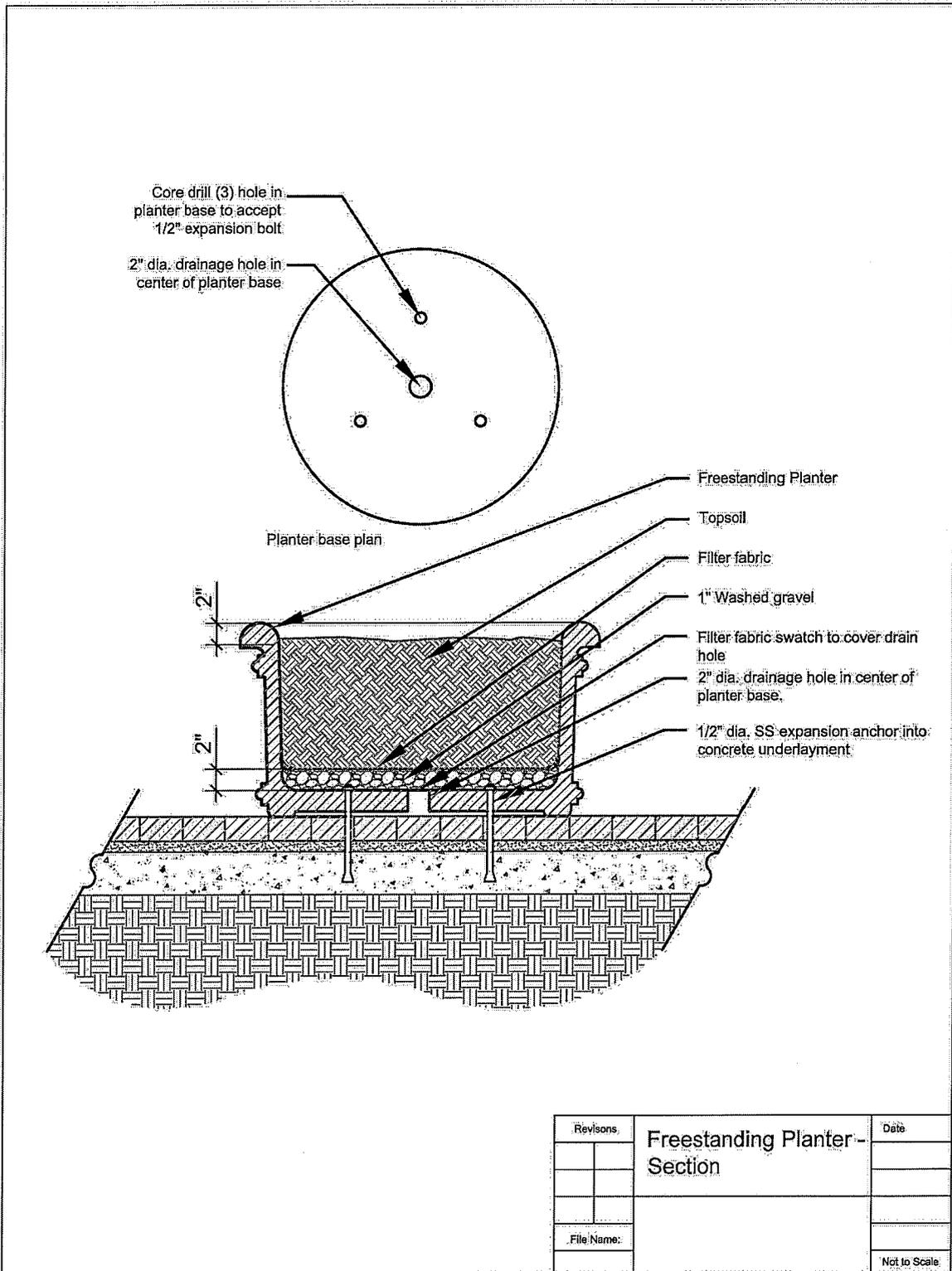
FOUNDATION TO BE INSTALLED FLUSH WITH PROPOSED PAVERS OR P.C.C. SIDEWALK

PROPOSED MODULAR CONCRETE PAVER OR 6" THICKNESS PROPOSED SIDEWALK

COMPACTED SUBGRADE TO 95% S.P.D.

CLASS SICONCRETE BASE (1" DIAMETER)

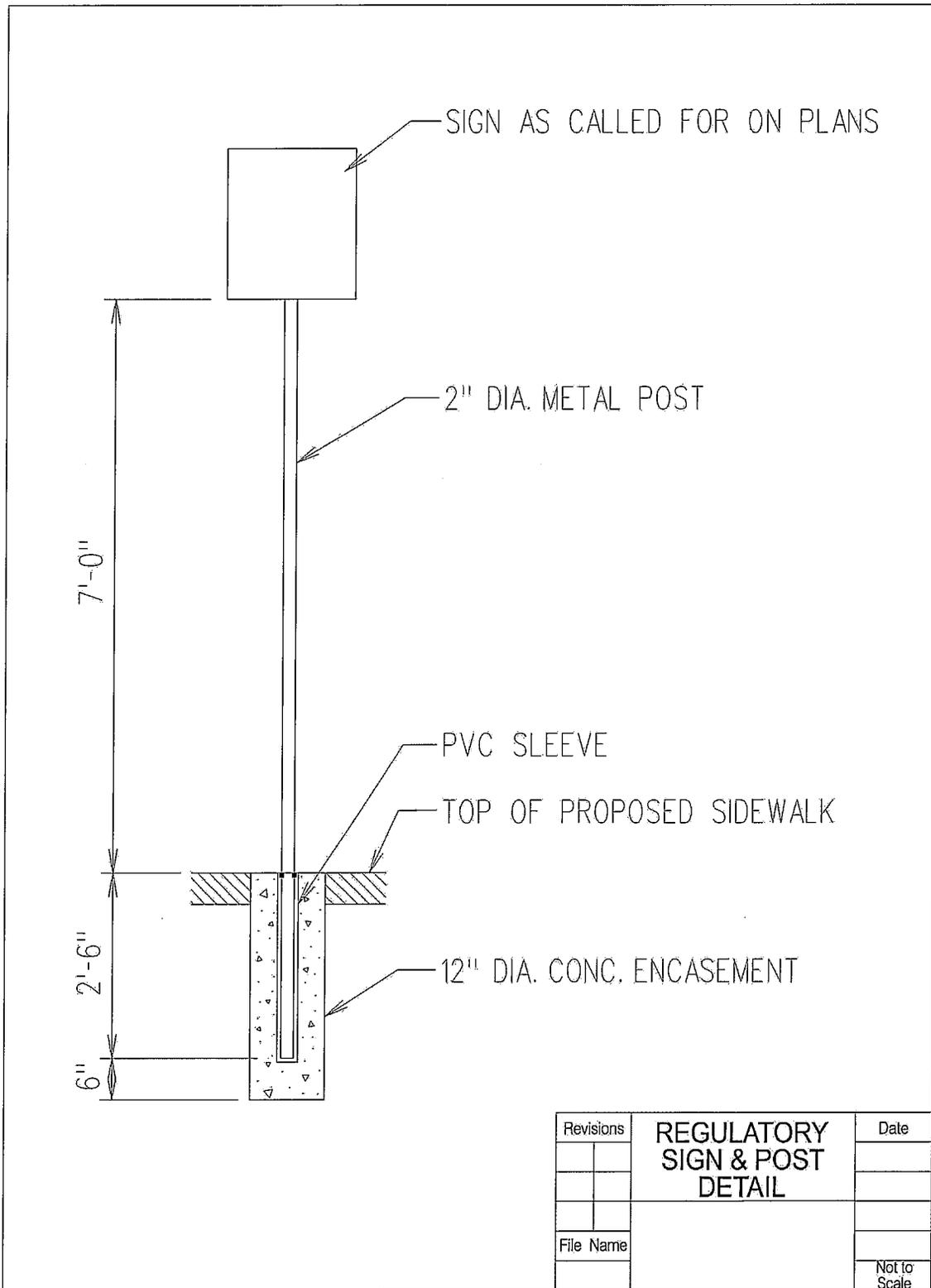
COMPACTED SUBBASE

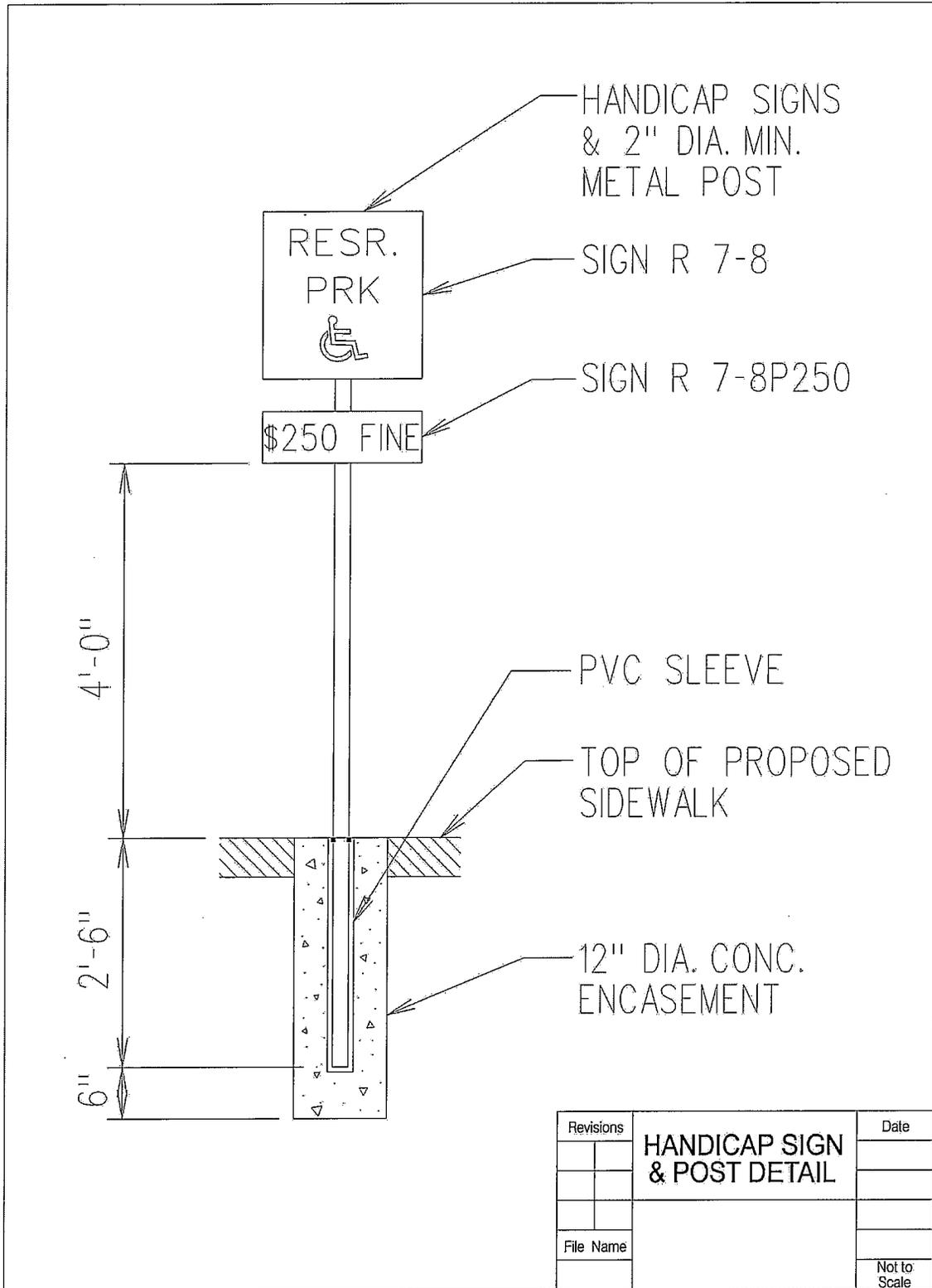


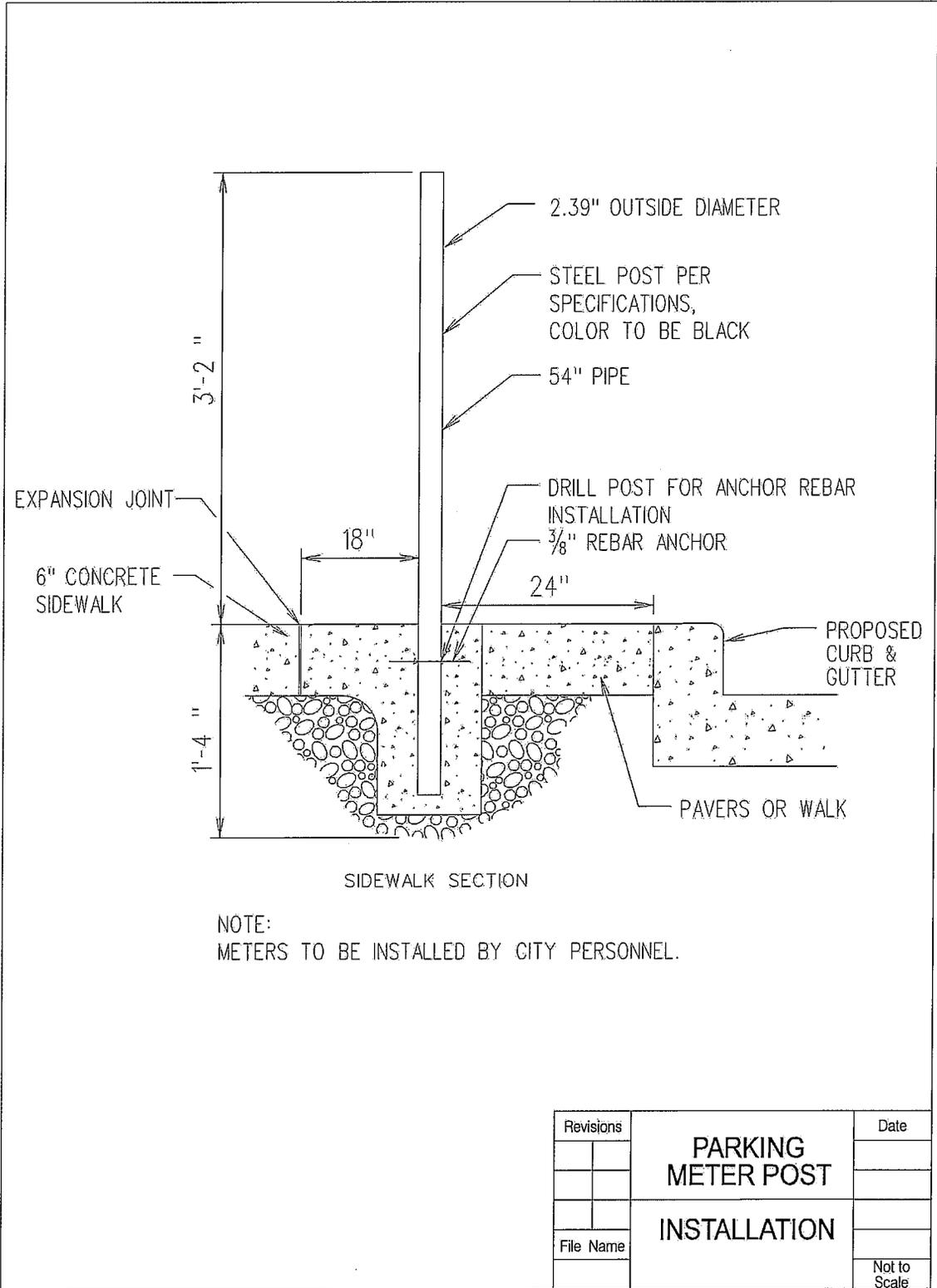
B. DOWNTOWN STREETSCAPE STANDARD DETAILS (cont.)

4. Signage and Specialties

- a. Signage – Regulatory Sign and Post Detail
- b. Signage – Handicap Sign and Post Detail
- c. Parking Meter Post Installation
- d. Signage – Street Name Sign





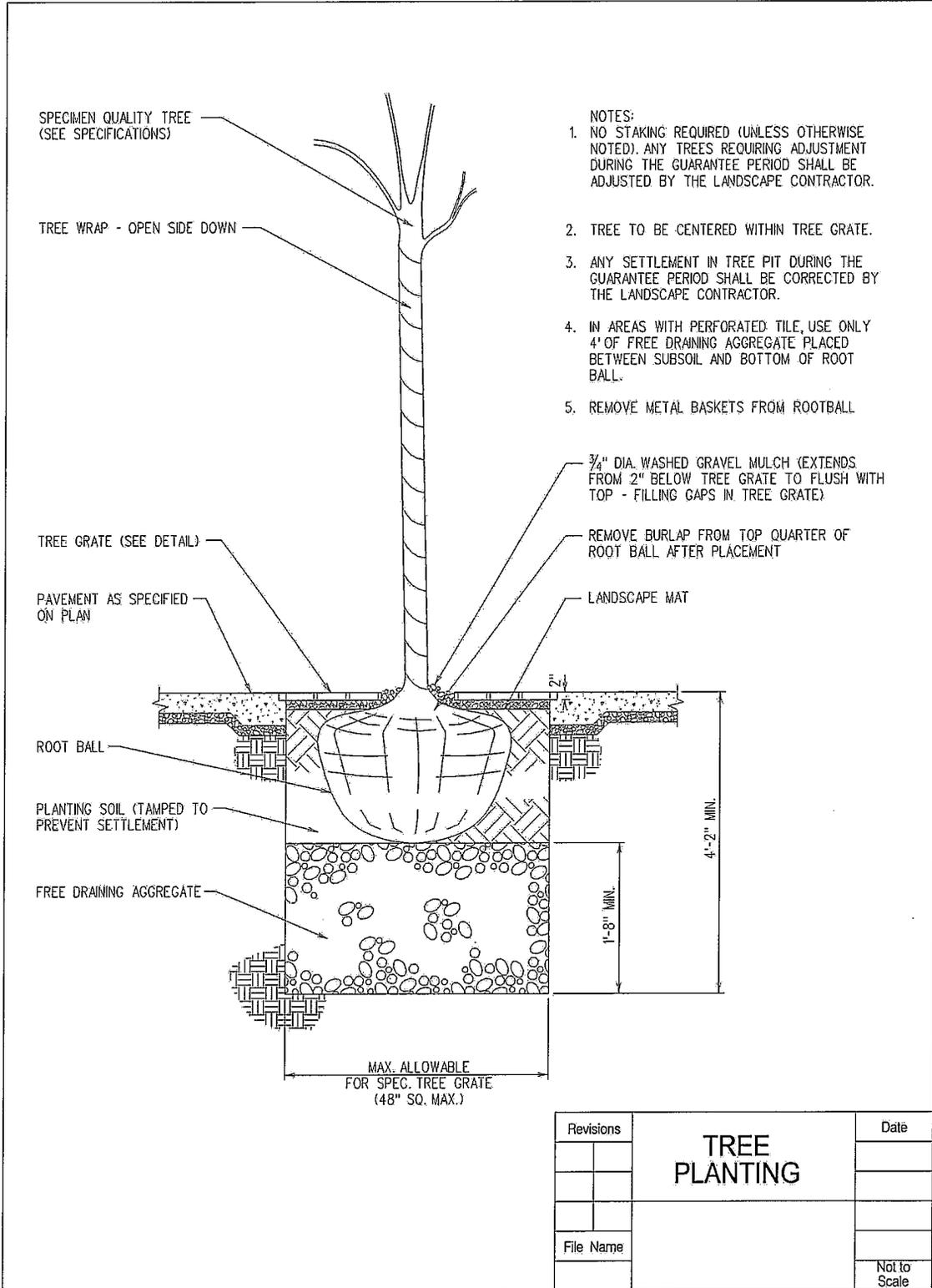


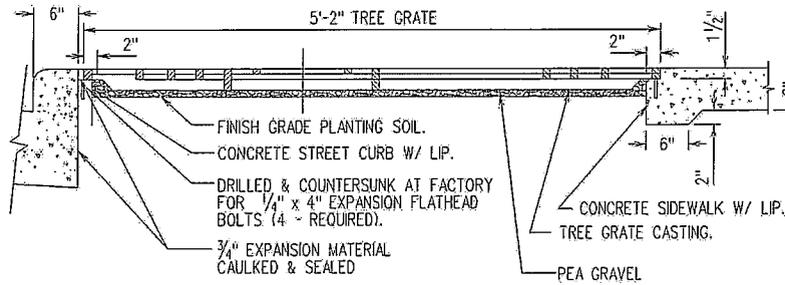
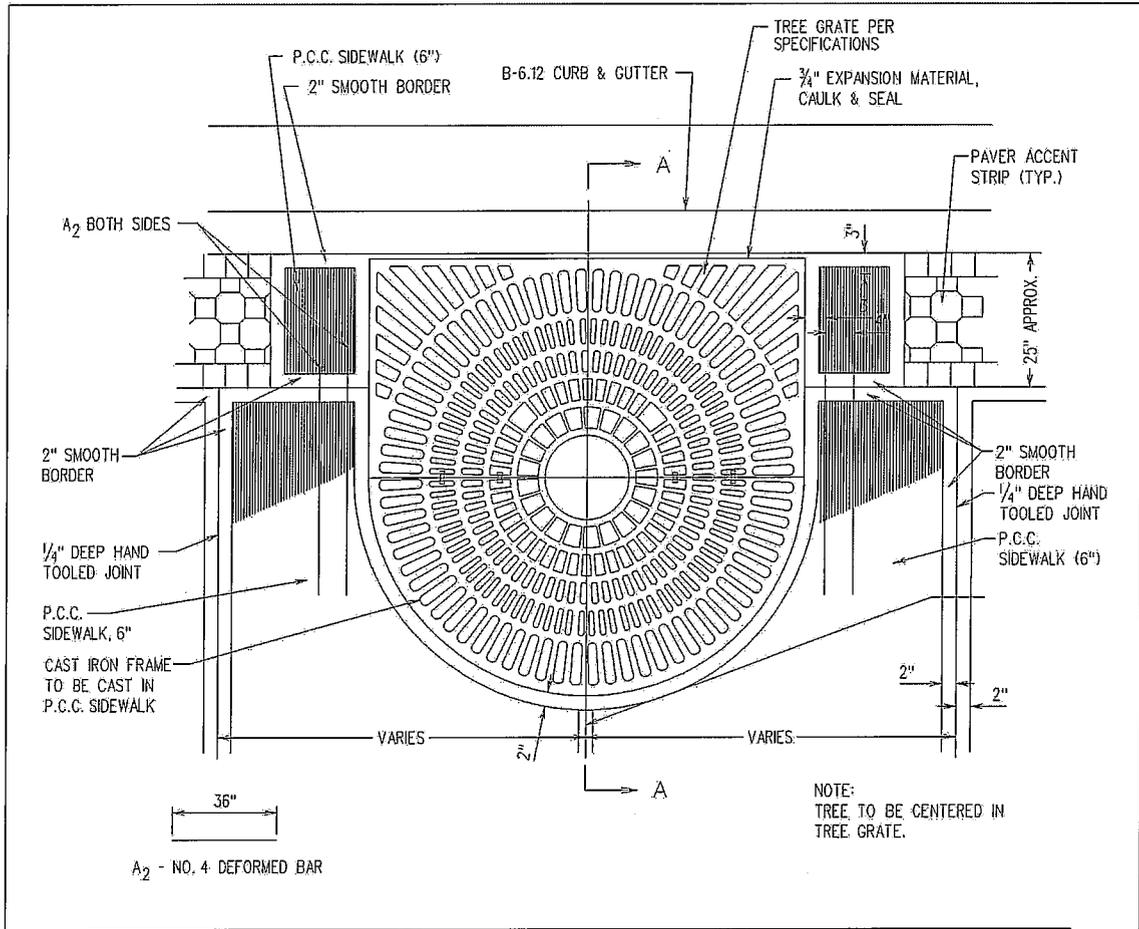
B. DOWNTOWN STREETSCAPE STANDARD DETAILS (cont.)

5. Planting

- a. Tree Planting – Parkway and Tree Grate
- b. Tree Grate
- c. Tree Grate (offset)

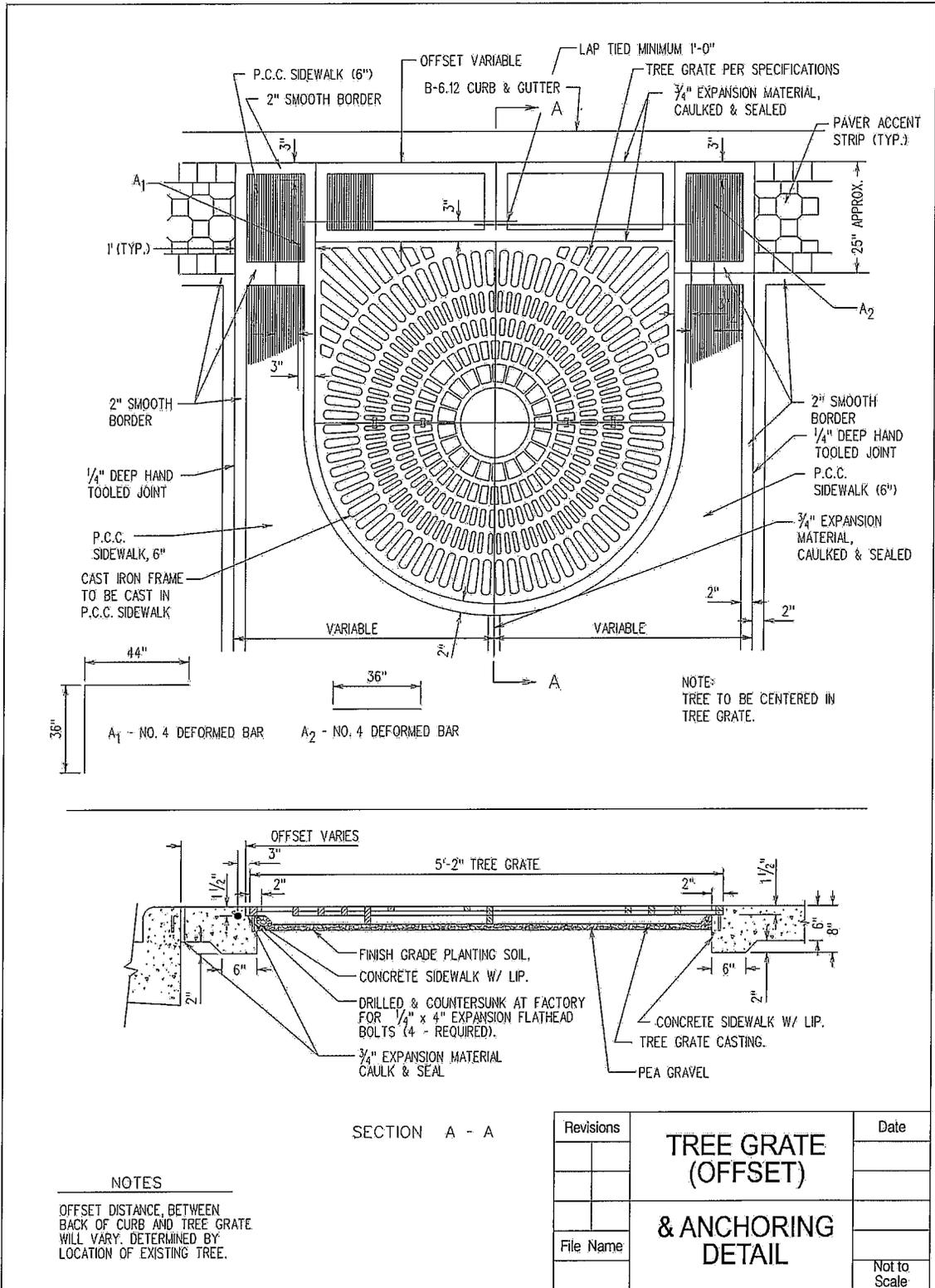
CHAPTER 27: DOWNTOWN STREETSCAPE STANDARDS





SECTION A - A

Revisions	Date
File Name	
TREE GRATE & ANCHORING DETAIL	
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26.04 STREETScape PRODUCT INFORMATION

A. CITY OF CHAMPAIGN STANDARD PRODUCTS

City of Champaign standard products as outlined in the Manual of Practice shall apply unless otherwise addressed in the Downtown standard products. Relevant Chapters of the Manual of Practice include:

CHAPTER 10:	PAVEMENT
CHAPTER 11:	SIDEWALK
CHAPTER 12:	TRAFFIC CONTROL AND REGULATORY SIGNAGE
CHAPTER 13:	RIGHT-OF-WAY LIGHTING STANDARDS
CHAPTER 24:	RIGHT-OF-WAY STREET TREE STANDARDS

B. DOWNTOWN STANDARD PRODUCTS

1. Paving and Curbs

- a. PCC Concrete: PCC PAVEMENT, DRIVEWAY PAVEMENT, SIDEWALK and COMBINATION CURB AND GUTTER shall be in accordance with Articles 420, 423, 424 and 606 of the Standard Specifications. All exposed surfaced shall be broom finished.
- b. Brick Pavers: Ornamental strip of pavers and interlocking pavers adjacent to back of curb shall conform to:
 - 1. Gray "half Holland stone" outline.
 - 2. Uni-Decor "Autumn Red Blend" interlocking pavers and edging pavers.
 - 3. Manufactured by Interpave Corporation, Cincinnati, OH or approved equal.Paver Strip shall be 25" wide. It shall be seated in a bed of leveling sand, finished thickness approximately 3/4". Leveling sand is laid on CLSM Underlayment.
- c. CLSM Underlayment: Controlled low-strength material under brick paver strip to bottom of adjacent curb and gutter shall be in accordance with Article 593 of the Standard Specifications.
- d. Joint Sealer: For all concrete sidewalk and entrances: Sonoborn SL-1 or NP-1 sealer or an approved equal shall be installed per manufacturer's directions.
- e. Concrete Planter Curb: Portland cement concrete, 6 inch height. Materials shall be in accordance with Article 606 of the Standard Specifications. Exposed surfaces shall be rubbed with 1 part PCC and 2 parts fine aggregate and broom finished.
- f. CLSM Underlayment: Controlled low-strength material under brick paver strip to bottom of adjacent curb and gutter shall be in accordance with Section 3.H.12. PORTLAND CEMENT CONCRETE SIDEWALK.

2. Street Lighting

- a. Pedestrian Light: Downtown Standard as Manufactured by Lumen, Inc. (217) 522-7267. See Details for specific information. Black powder coat finish.
- b. Vehicular Light: Downtown Standard as Manufactured by Lumen, Inc. (217) 522-7267. See Details for specific information. Black powder coat finish.

3. Street Furnishings

- a. Bench: Model # S-42, 36 gallon tank, as manufactured by DuMor; available through NuToys Leisure Products, Inc., Box 2121, LaGrange, IL (800) 368-2573. Color to be Black.
- b. Trash Receptacle: Model # 58-810 w/ center armrest, 6' or 8' long, as manufactured by DuMor; available through NuToys Leisure Products, Inc., Box 2121, LaGrange, IL (800) 368-2573. Color to be Black.
- c. Bicycle Locking Ring: Custom fabricated steel bike loop from Tilton Pattern Works, 301 Mayfield Drive, Danville, IL (217) 442-1502.
- d. Ornamental Bollard: Bollards shall be one piece heavy wall cast iron with access door to bolts at base. Color shall be factory finish black. The nominal height shall be 39 inches and the base diameter shall be 12 inches. The bollard shall be 'Brighton' style as manufactured by Trystan, represented by Martin Marion at Zenon Company, 400 Dundee, Ste.110, Buffalo Grove, Illinois 60089; (800) 495-3267 or (847) 215-6142; fax: (847) 215-6142; email: zenonsite@AOL.com, or equal as approved by Engineer.
- e. Ornamental Seat Wall: Portland cement concrete, variable height. Materials shall be in accordance with Article 606 of the Standard Specifications. Exposed surfaces shall be rubbed with 1 part PCC and 2 parts fine aggregate and broom finished.
- f. Freestanding Planters: Mediterranean style, Type X round shape, cast stone material as manufactured by Dura Art Stone, (800) 232-0332. Color to be S-18 with an acid finish. Type A: 36" wide x 17" tall; Type B: 36" wide x 30" tall; Type C: 48" wide x 22" tall; Type D: 60" wide x 17" tall

4. Signage and Specialties

- a. Signage – Regulatory: Shall be in conformance with the City of Champaign Manual of Practice Chapter 12: Traffic Control and Regulatory Signage, except as modified herein. Posts shall have a black powder coat finish.
- b. Signage – Standard Street Name: Shall be in conformance with the City of Champaign Manual of Practice Chapter 12: Traffic Control and Regulatory Signage, except as modified herein. Posts shall have a black powder coat finish.

- c. Signage – Street Name, Internally Illuminated: Downtown Standard. Custom fabricated per details and specification information. The sign shall consist of extruded aluminum top, bottom and door with cast aluminum ends. Fluorescent lighting will be provided by 2-800 MA standard lamps. The ballast shall be encased and potted and shall be provided by a major manufacturer with proven dependability. Fluorescent sockets will be D-Die snap-in-type sockets with rubber gasket on the lamp mating surface to prevent possible water damage. All wiring shall be 600 volts, 90 degree C, #18 AGW soft annealed copper wire. Wire connections will be made with insulated compression wire nuts. The sign face shall be .125" polycarbonate. All housing materials and connections shall be powder coated Black.
 - d. Signage – Downtown: Downtown Identification Signs: Downtown Standards as fabricated by the City of Champaign. See Details for specific information.
5. Planting
- a. Tree planting shall be in conformance with the City of Champaign Manual of Practice Chapter 24: Right-of-way street tree standards.
 - b. Tree Grate: Model R-8929 as manufactured by Neenah Foundry Company (800) 558-5075. 62" combination round-square with 12" diameter expandable tree opening.
 - c. All other planting materials and methods shall be submitted per the City of Champaign Zoning Code Article X: Landscaping.