

# LUONGO SQUARE STREETScape AND TRAFFIC FLOW IMPROVEMENTS

PROVIDENCE · RHODE ISLAND

90% SUBMISSION

AUGUST 2010

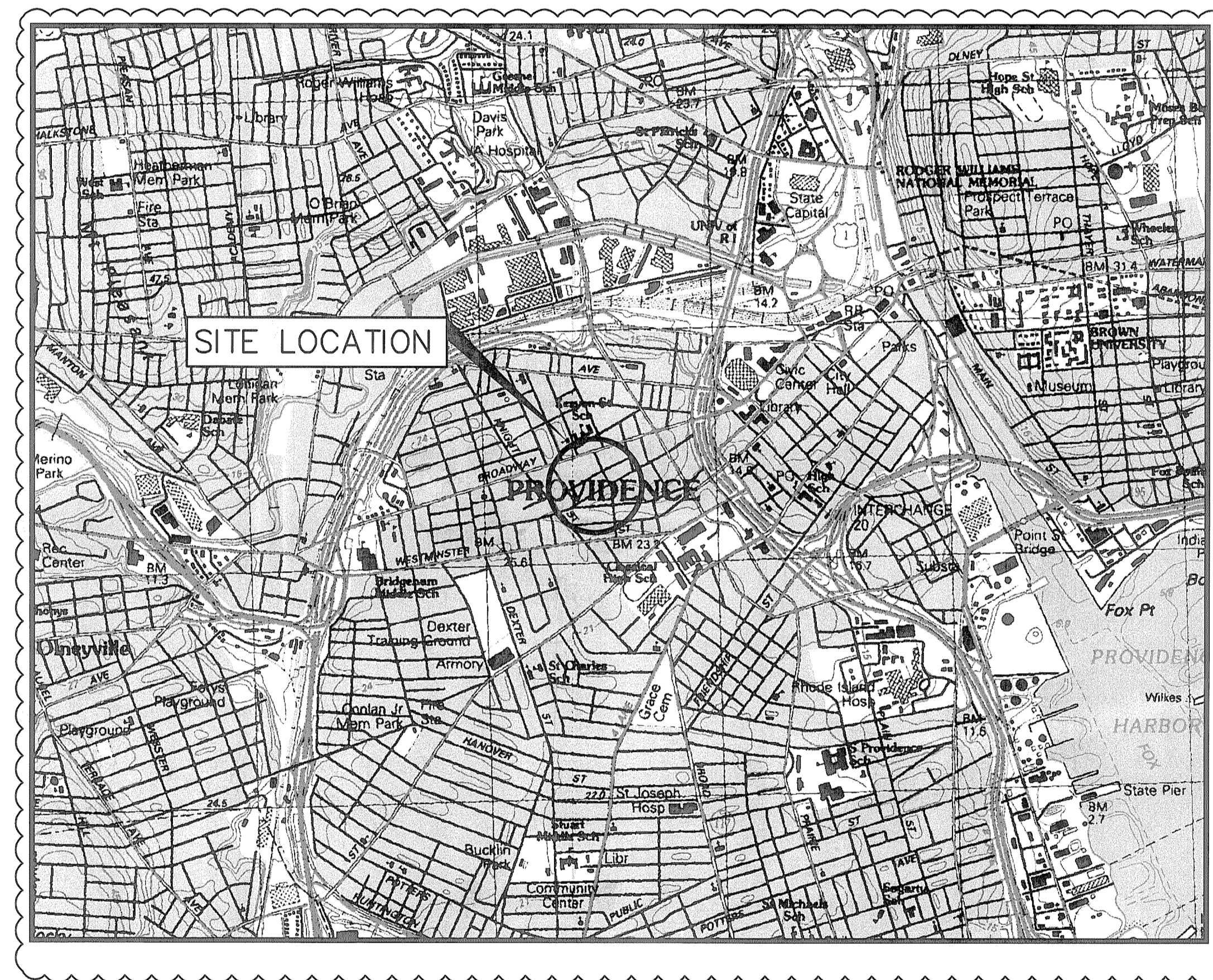
R.I.F.A.P. No. XXX-XXXXXXX R.I.C. No. XXXX-XX-XXX

**PROJECT TEAM**



**FUSS & O'NEILL**  
*Discipline to Deliver*  
 317 IRON HORSE WAY, SUITE 204  
 PROVIDENCE, RI 02908  
 401.861.3070  
 www.FandO.com

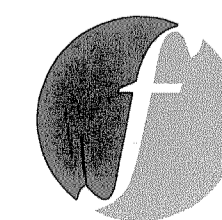
**BRADFORD ASSOCIATES**  
 LANDSCAPE ARCHITECTS  
 25 CREIGHTON ST., PROVIDENCE, RI, 02906- 1518  
 TEL (401) 521.6867 FAX (401) 454.8491



LOCATION MAP  
 SCALE: 1" = 1,500'

PREPARED FOR  
**CITY OF PROVIDENCE**  
 DEPARTMENT OF PUBLIC WORKS  
 700 ALLENS AVENUE  
 PROVIDENCE, RI 02905  
 (401) 467-7950

PREPARED BY



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**SHEET INDEX**

SHEET No.	SHEET TITLE
GI-001	COVER SHEET
GI-002	STANDARD PLAN SYMBOLS & STANDARD LEGEND
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GI-005	JOB SPECIFIC SYMBOLS, LEGEND & NOTES
	GENERAL PLAN
	LOCATION PLAN
	LANDSCAPE DETAILS
	PLANTING PLAN, PLANT LIST, DETAILS AND NOTES
	MISCELLANEOUS DETAILS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 REVIEWED SITE PLAN APPLICATION NO.: 11-0109  
 DATED JUL 13 2011  
 SEE LETTER OF SAME DATE  
*Charles A. Haber*

PROJ. No.: 2003-251.A20  
 DATE: AUGUST 2010  
**GI-001**







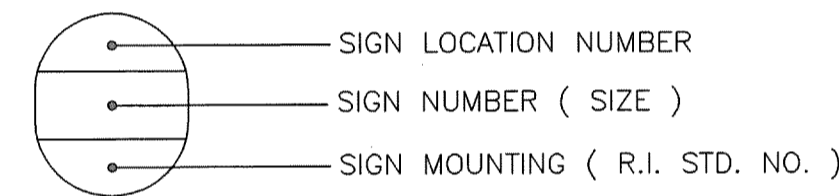
**GENERAL LEGEND:**

- 7.1.0 PRECAST CONCRETE CURB, R.I. STD. 7.1.0
- 7.3.3 GRANITE WHEELCHAIR RAMP TRANSITION CURB, R.I. STD. 7.3.3
- 7.3.4 GRANITE 2'-0" RADIUS CORNER, R.I. STD. 7.3.4
- 18.2.0 PRECAST TYPE "A" HANDHOLE, R.I. STD. 18.2.0
- 24.2.0 SIGN POST SELECTION AND INSTALLATION DETAILS, R.I. STD. 24.2.0
- 24.6.0 PARKING SIGN MOUNTING DETAIL, R.I. STD. 24.6.0
- 24.6.1 STREET SIGN MOUNTING DETAIL, R.I. STD. 24.6.1
- 43.1.0 CEMENT CONCRETE SIDEWALK, R.I. STD. 43.1.0
- 43.3.0 WHEELCHAIR RAMP, R.I. STD. 43.3.0
- 43.5.0 CEMENT CONCRETE DRIVEWAY, R.I. STD. 43.5.0
- 51.1.0 TREE PROTECTION DEVICE, R.I. STD. 51.1.0
- AV ADJUST VALVE BOX TO GRADE
- CCB CLEAN CATCH BASIN
- DFP REMOVE AND DISPOSE FLEXIBLE PAVEMENT
- DSW REMOVE & DISPOSE SIDEWALK
- DT REMOVE & DISPOSE ISOLATED TREE
- DW DRIVEWAY DEVELOPMENT FOR 2'-0" CURB RETURN
- PCW PROPOSED CROSSWALK (SEE DETAIL)
- PGC GRANITE CURB, PROVIDENCE STANDARD
- RHH REMOVE, HANDLE, HAUL, TRIM, RESET CURB EDGING, STRAIGHT, CIRCULAR, ALL TYPES
- RCB RECONSTRUCT CATCH BASIN HEAD
- RRS REMOVE AND RESET SIGN
- RSS REMOVE AND STOCKPILE SIGN
- SGC STOCKPILE GRANITE CURB
- TI-1 BITUMINOUS SURFACE COURSE TYPE 1-1

**GENERAL NOTES:**

1. ALL ITEMS NOT REFERENCED FOR MODIFICATION WILL BE "EXISTING TO REMAIN" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF PROVIDENCE AND THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE A SAFE STOCKPILE LOCATION. ALL GRANITE CURBING SHALL BE DELIVERED TO THE DPW YARD, AND STACKED WHERE DIRECTED.
3. ANY DAMAGE TO EXISTING STATE, CITY, OR PRIVATE PROPERTY CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
4. ALL DISTURBED AREAS INCLUDING THE CONTRACTOR'S STOCKPILE AREAS WITHIN RIGHT-OF-WAY SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE CITY.
5. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.
6. ALL SIDEWALKS AND DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE FULL DEPTH SAWCUT AT THE PROPERTY LINE, UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE ENGINEER. NEW CONCRETE SIDEWALKS MUST BE PLACED WITHIN SEVEN(7) CONSECUTIVE WORKING DAYS AFTER REMOVAL OF THE OLD SIDEWALK.
7. DURING ALL PHASES OF EXCAVATION AND CONSTRUCTION OF THE NEW SIDEWALKS, THE CONTRACTOR SHALL PROTECT THE WALLS, STEPS, BUILDINGS, ETC. FROM DAMAGE AND COLLAPSE AT NO ADDITIONAL COST TO THE CITY. RESULTING DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE, AND TO THE APPROVAL OF THE ENGINEER. ANY WALLS, STEPS, BUILDING, ETC. WHICH ARE IN POOR CONDITION PRIOR TO CONSTRUCTION SHALL BE NOTED WITH THE ENGINEER PRIOR TO THE START OF THE CONSTRUCTION.
8. ANY LOCATIONS WHERE NEW SIDEWALK WILL BE GREATER THAN 5 FEET IN WIDTH AN ADDITIONAL LONGITUDINAL CONTROL JOINT WILL BE REQUIRED AT NO ADDITIONAL COST TO THE CITY.
9. THE COST OF ANY CURB CUTTING REQUIRED TO INSTALL NEW CURB SHALL BE INCLUDED IN THE UNIT PRICE BID FOR NEW CURB.
10. CUTTING AND MATCHING IS TO BE DONE IN SUCH A MANNER AS TO PROVIDE FOR A STRAIGHT, NEAT CUT LINE.
11. CONSTRUCTION JOINTS WITH 1/4" PREMOLDED EXPANSION JOINT FILLER SHALL BE PLACED EVERY 20'-0" O.C. MAXIMUM WITHIN THE SIDEWALK.
12. IF SIDEWALK IS TO ABUT A SMOOTH WALL, FOUNDATION OR STATIONARY OBJECT, A FULL DEPTH EXPANSION JOINT FILLER SHALL BE PLACED BETWEEN THE SIDEWALK CONCRETE & THE SURFACE OF THE WALL, FOUNDATION OR STATIONARY OBJECT.
13. IF THE SIDEWALK IS TO ABUT AN IRREGULAR WALL, FOUNDATION OR STATIONARY OBJECT, A FULL DEPTH EXPANSION JOINT FILLER SHALL BE PLACED FOUR INCHES FROM THE IRREGULAR SURFACE & CONCRETE SHALL BE PLACED BETWEEN THE ABOVE MENTIONED SURFACES AND THE EXPANSION JOINT MATERIAL.
14. SIDEWALK JOINTS SHALL BE SPACED TO FALL ALONG THE ENDS OF THE TREE PITS, WITH NO MORE THAN ONE JOINT FALLING WITHIN THE TREE PIT.
15. SIGNS MOUNTED ON EXISTING UTILITY POLES ARE TO REMAIN UNLESS NOTED OTHERWISE ON THE PLANS.
16. EXISTING CURB IS TO REMAIN IN PLACE UNLESS NOTED OTHERWISE ON THE PLANS. CURBING TO REMAIN WHICH IS DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN-KIND AT NO COST TO THE CITY.
17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT OBLITERATED BEFORE CONTROL POINTS ARE LOCATED AND CONSTRUCTION LAYOUT IS ESTABLISHED. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED IN SUFFICIENT DETAIL, THEREBY ENABLING HIM TO CONSTRUCT THE PROJECT IN CONFORMITY WITH THE PLANS AND SPECIFICATIONS. SURVEY WILL BE PROVIDED BY THE CONTRACTOR. THE RESIDENT ENGINEER WILL NOT AUTHORIZE CONSTRUCTION ACTIVITIES TO BEGIN UNTIL HE IS SATISFIED THAT ALL GROUND CONTROL HAS BEEN ESTABLISHED, TIED DOWN, AND DULY RECORDED IN STANDARD FIELD BOOKS.
18. THE EXISTING GRANITE CATCH BASIN LIDS SHALL BE REUSED IN THE RECONSTRUCTION OF CATCH BASIN HEADS.

**TYPICAL SIGN DESIGNATION SYMBOL:**



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 REVIEWED SITE PLAN APPLICATION NO.: 11-c169  
 DATED JUL 13 2011  
 SEE LETTER OF SAME DATE  
*Charles H. Walker*

Environmental Management  
 JUN 29 2011  
 Office of Water Resources

CTB: FO STANDARD.ctb  
 LMAN:  
 IMS VIEW:  
 UCS: WORLD

No.	DATE	DESCRIPTION	BY
1.			

REVISIONS

PROJ. MANAGER:	DLH
CHIEF DESIGNER:	DAK
REVIEWED BY:	DATE

SEAL	SEAL
------	------

SCALE:	HORZ.: N.T.S.
	VERT.:
DATUM:	
	HORZ.: N.T.S.
	VERT.:
GRAPHIC SCALE	

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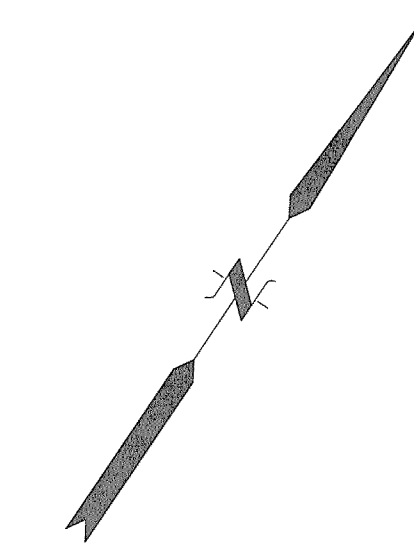
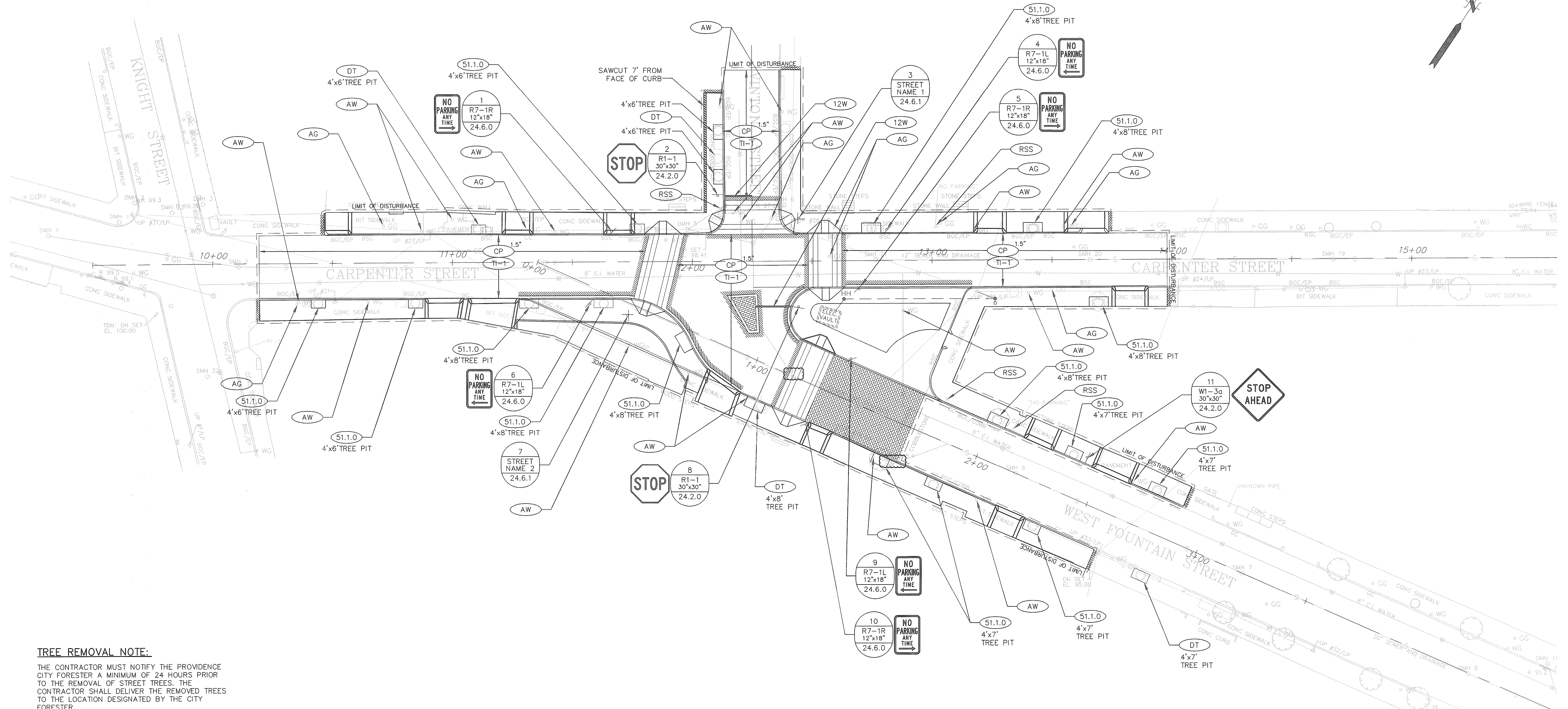
317 IRON HORSE WAY SUITE 204 PROVIDENCE RI 02908 401.861.3070

CITY OF PROVIDENCE  
 JOB SPECIFIC SYMBOLS,  
 LEGEND & NOTES  
 LUONGO SQUARE STREETSCAPE

PROVIDENCE RHODE ISLAND

PROJ. No.: 2003-251.A20  
 DATE: AUGUST 2010

**GI-005**



**TREE REMOVAL NOTE:**

THE CONTRACTOR MUST NOTIFY THE PROVIDENCE CITY FORESTER A MINIMUM OF 24 HOURS PRIOR TO THE REMOVAL OF STREET TREES. THE CONTRACTOR SHALL DELIVER THE REMOVED TREES TO THE LOCATION DESIGNATED BY THE CITY FORESTER.

**STREET NAME LEGEND**

STREET NAME SIGN 1 : CARPENTER STREET  
VINTON STREET

STREET NAME SIGN 2 : CARPENTER STREET  
WEST FOUNTAIN STREET

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
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*Charles A. Herbert*

Environmental Management  
Office of Water Resources  
JUN 29 2011

No.	DATE	DESCRIPTION	BY
1.			
REVISIONS			

PROJ. MANAGER: DLH	SEAL
CHIEF DESIGNER: DAK	SEAL
REVIEWED BY: DATE	

SCALE:

HORIZ.: 1" = 20'

VERT.:

DATUM:

HORIZ.:

VERT.:

20 10 0 20

GRAPHIC SCALE

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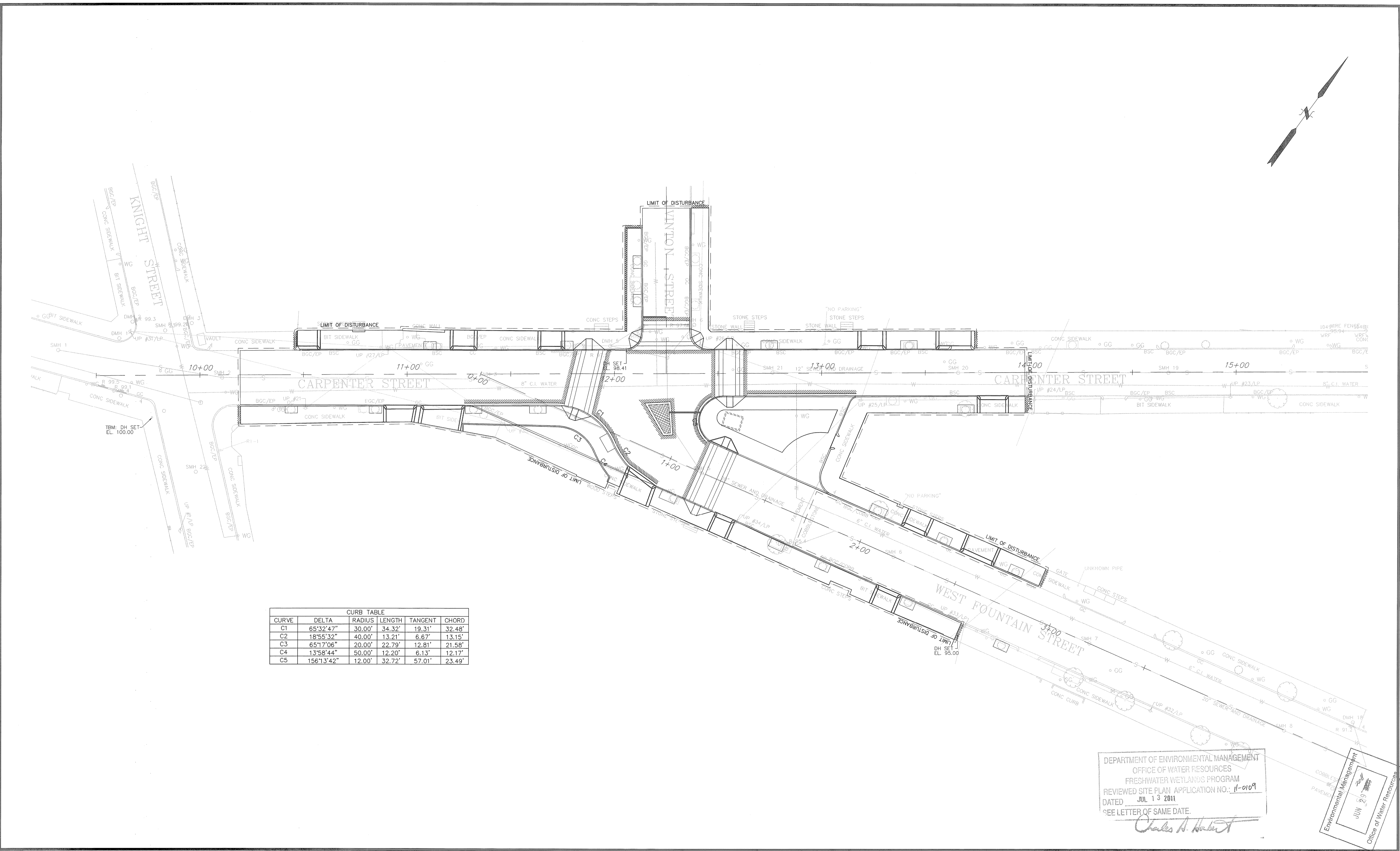
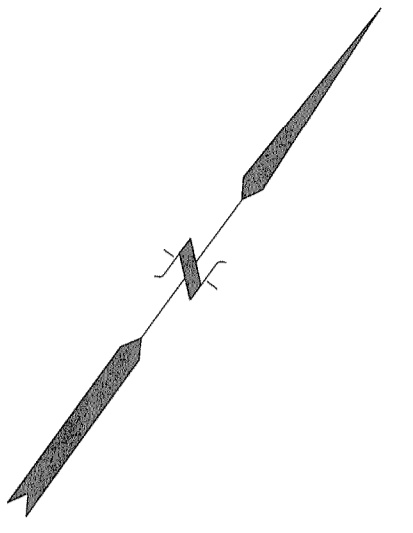
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CITY OF PROVIDENCE  
GENERAL PLAN  
LUONGO SQUARE STREETScape

PROVIDENCE RHODE ISLAND

PROJ. No.: 2003-251A20  
DATE: AUGUST 2010

**CS-101**



CURB TABLE					
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD
C1	65°32'47"	30.00'	34.32'	19.31'	32.48'
C2	18°55'32"	40.00'	13.21'	6.67'	13.15'
C3	65°17'06"	20.00'	22.79'	12.81'	21.58'
C4	13°58'44"	50.00'	12.20'	6.13'	12.17'
C5	156°13'42"	12.00'	32.72'	57.01'	23.49'

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*Charles A. Habert*

Environmental Management  
 JUN 29 2011  
 Office of Water Resources

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REVISIONS			

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REVIEWED BY: DATE	

SCALE:  
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 GRAPHIC SCALE

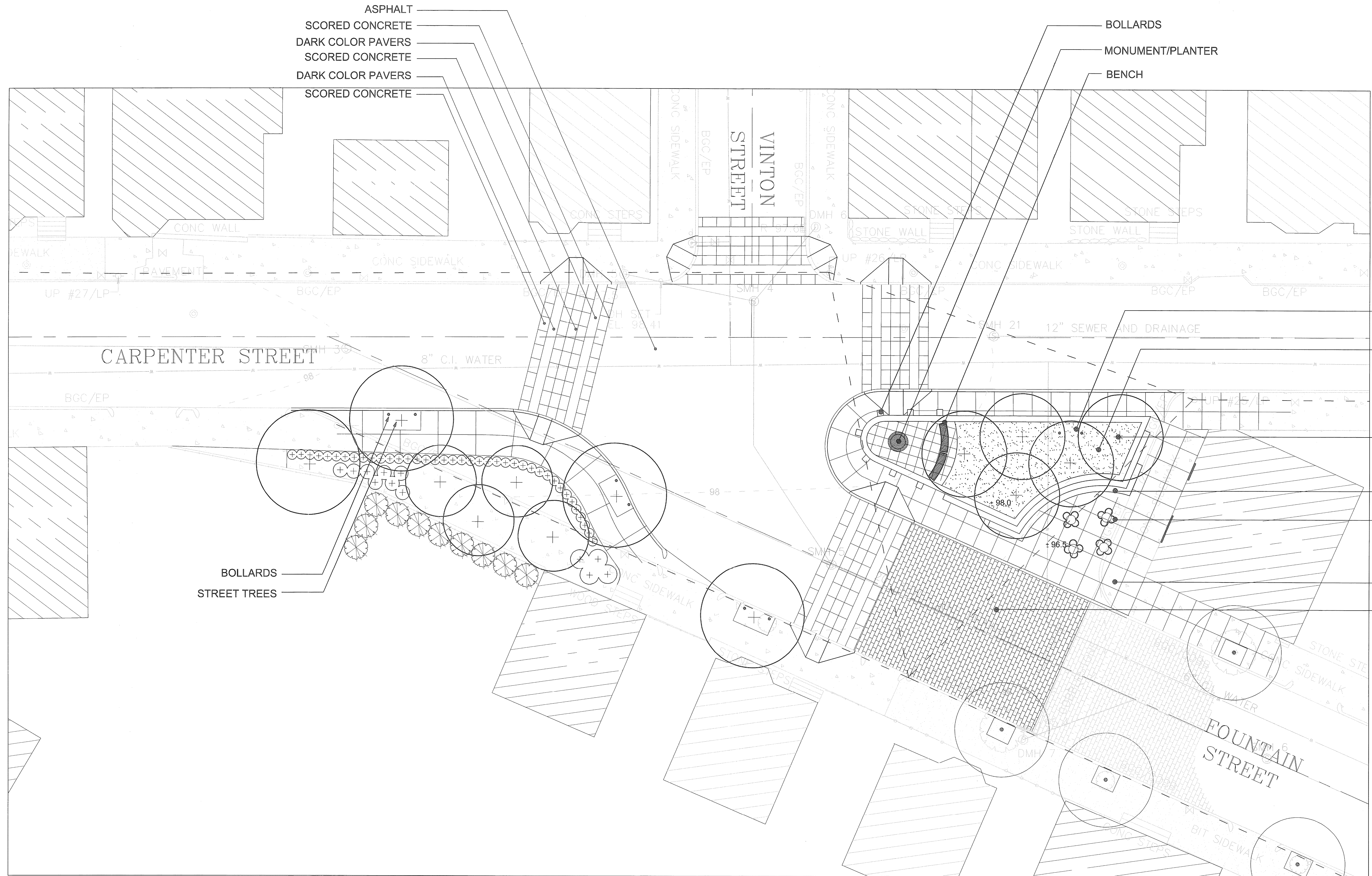
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CITY OF PROVIDENCE  
 LOCATION PLAN  
 LUONGO SQUARE STREETSCAPE  
 PROVIDENCE RHODE ISLAND

PROJ. No.: 2003-251A20  
 DATE: AUGUST 2010  
 XX-XXX



ASPHALT  
 SCORED CONCRETE  
 DARK COLOR PAVERS  
 SCORED CONCRETE  
 DARK COLOR PAVERS  
 SCORED CONCRETE

BOLLARDS  
 MONUMENT/PLANTER  
 BENCH

BIKE LOCK BOLLARD  
 STONE FINES ON STRUCTURAL PLANTING SOIL  
 CLOSELY SPACED LIGHT TEXTURE TREES  
 STEPS  
 TEMPORARY CAFE TABLES  
 STONE PAVERS  
 COBBLESTONE

BOLLARDS  
 STREET TREES

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 REVIEWED SITE PLAN APPLICATION NO.: 11-01-09  
 DATED JUL 13 2011  
 SEE LETTER OF SAME DATE.

*Charles A. Kaban*

Environmental Management  
 JULY 29 2011  
 Office of Water Resources

BRADFORD ASSOCIATES  
 LANDSCAPE ARCHITECTS  
 25 CREIGHTON ST., PROVIDENCE, RI, 02906-1518  
 TEL (401) 521.6867 FAX (401) 454.8491

SCALE: 1"=10'-0"  
 HORZ.:  
 VERT.:  
 DATUM:  
 HORZ.:  
 VERT.:  
 0 10 20  
 GRAPHIC SCALE

**fjo** FUSS & O'NEILL INC. Consulting Engineers  
 275 PROMENADE STREET, SUITE 350, PROVIDENCE, RI 02908  
 401.861.3070

CITY OF PROVIDENCE  
 PELIMINARY IMPROVEMENT PLAN  
 LUONGO SQUARE  
 PROVIDENCE RHODE ISLAND

PROJ. No.: 2003-251.A10  
 DATE: 04-09-04

LA-1

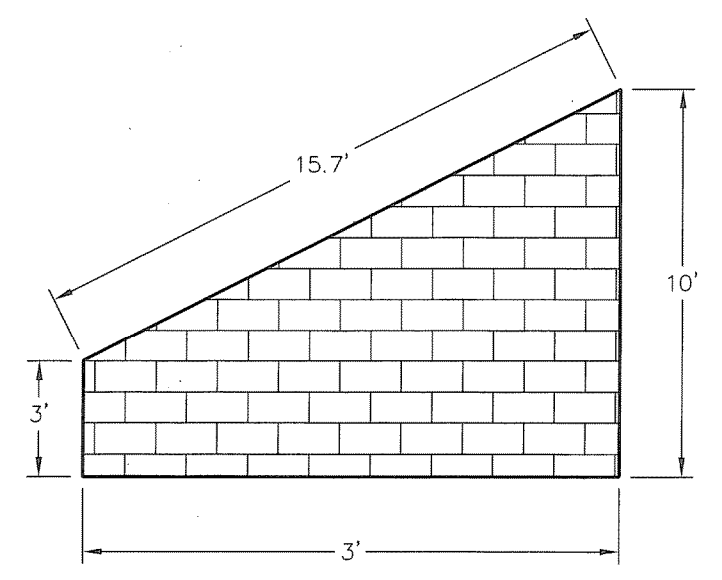
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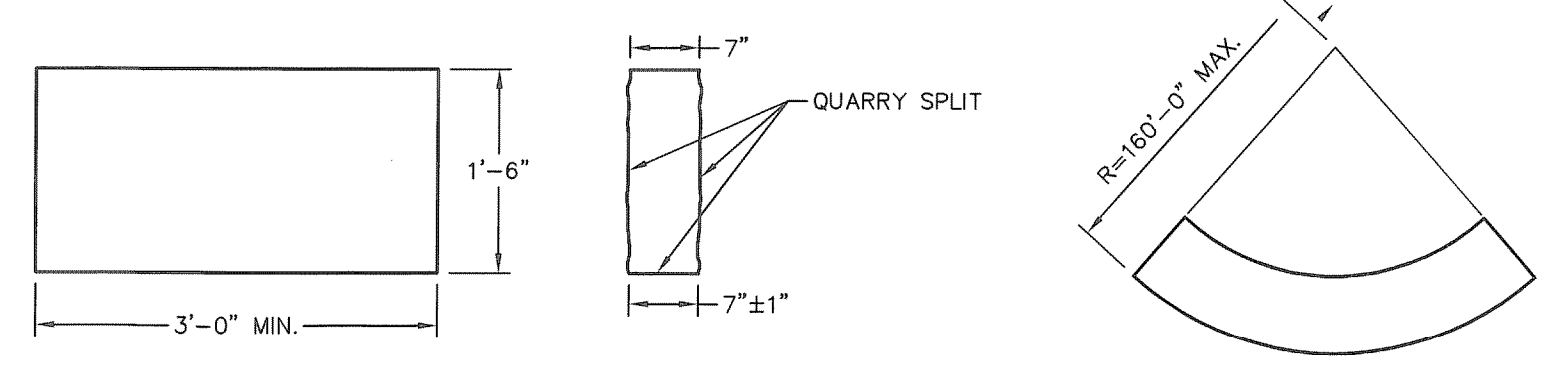
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MS VIEW:

UCS:



**PLAN**



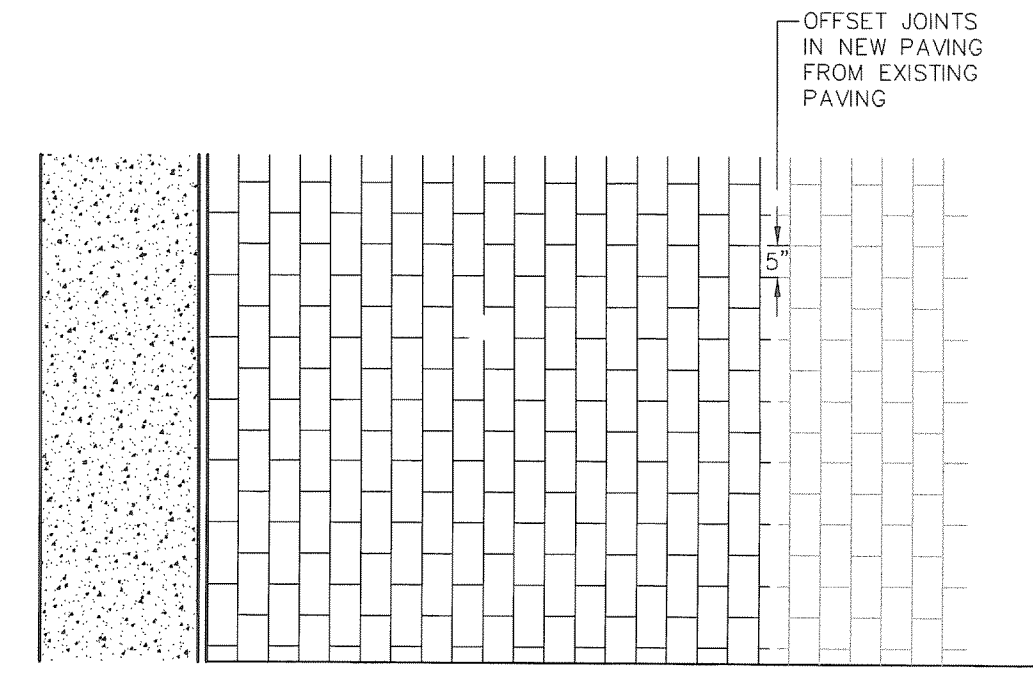
**CIRCULAR CURB**

**NOTES:**

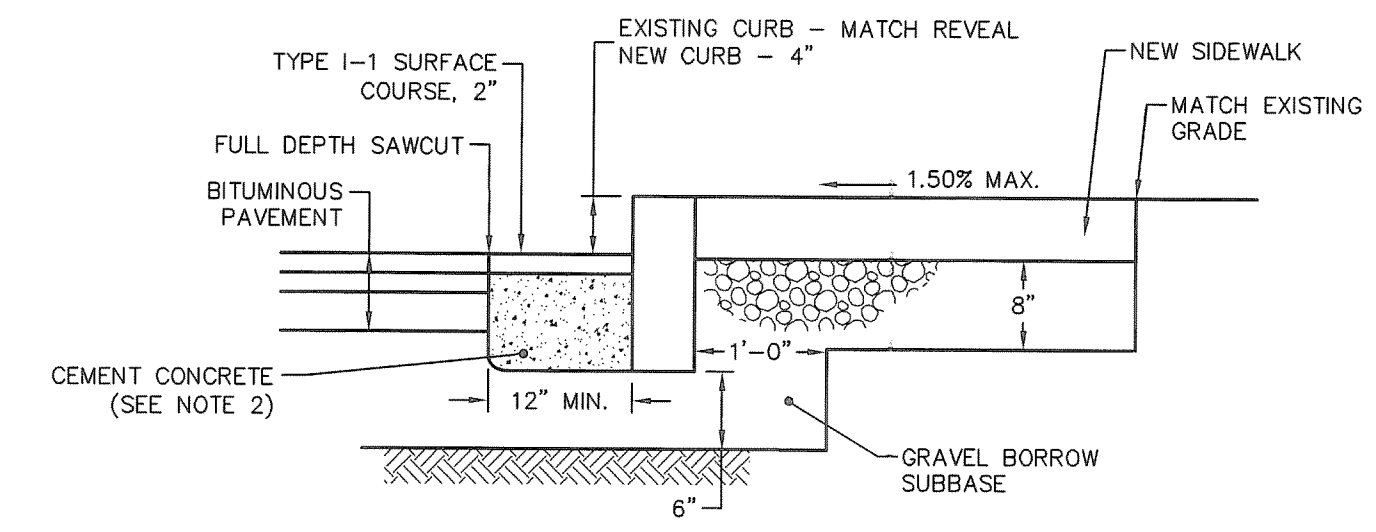
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT.
3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR PIECES TO BE 3'-0".
4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.

**GRANITE CURB, PROVIDENCE STANDARD** (PGC)

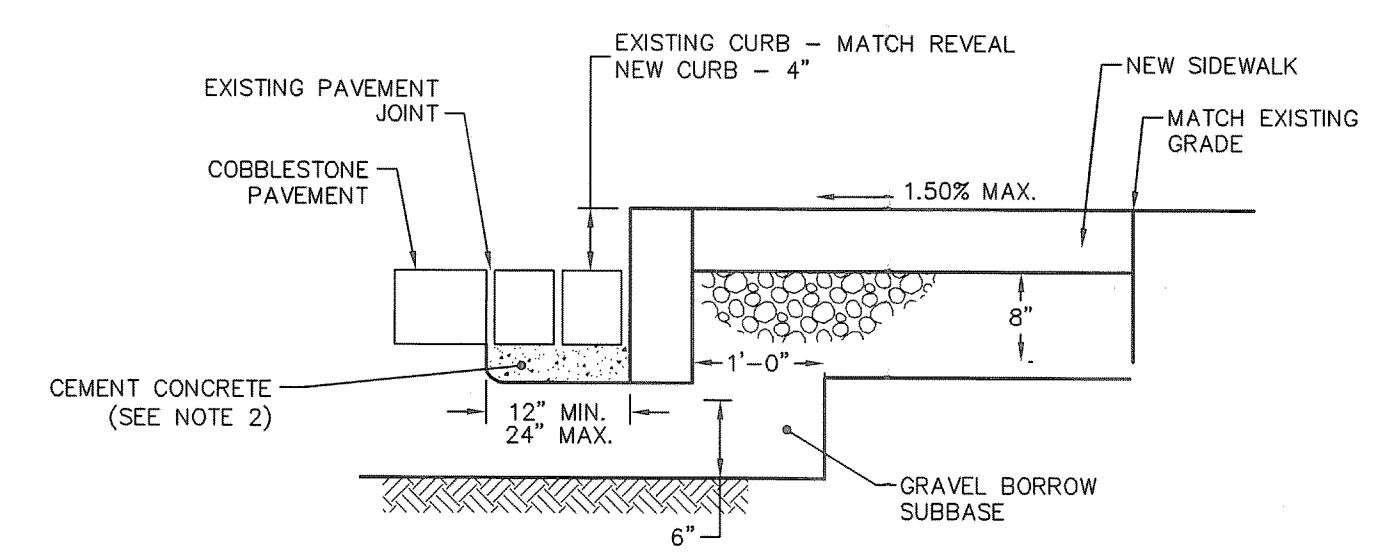
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**PLAN**



**BITUMINOUS PAVEMENT**



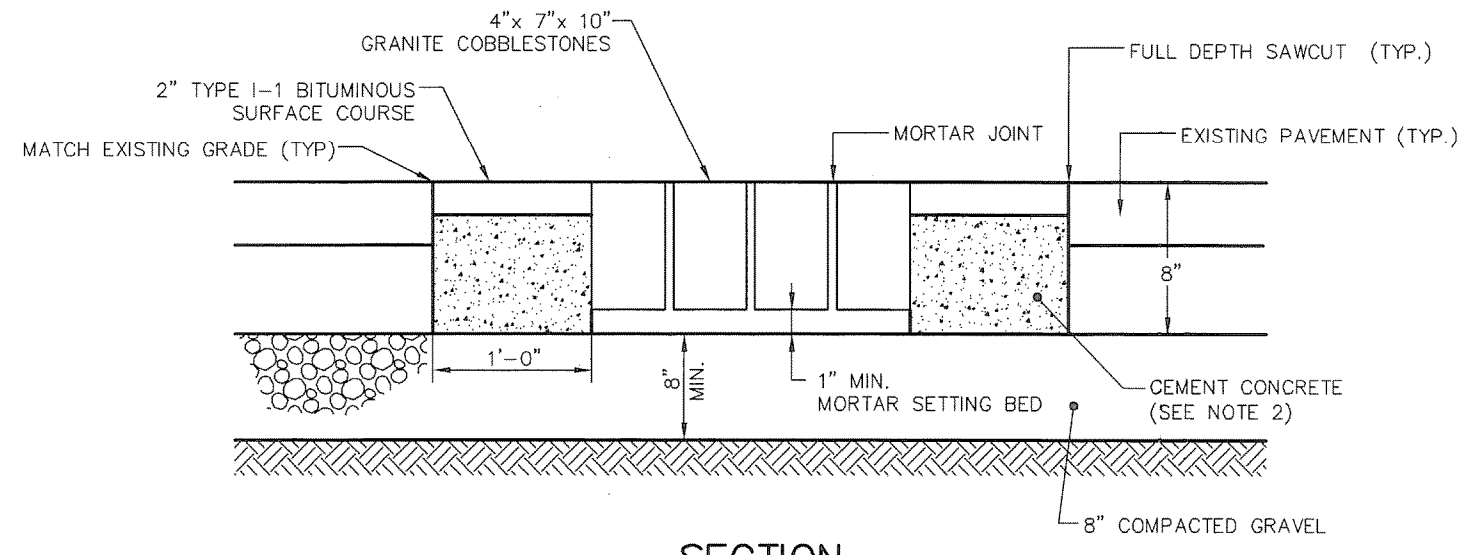
**COBBLESTONE PAVEMENT**

**NOTES:**

1. SHALL BE IN ACCORDANCE WITH SECTIONS 905 AND 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. CEMENT CONCRETE SHALL BE USED ONLY WHEN THE CURB IS SET ADJACENT TO EXISTING PAVEMENT, OTHERWISE THE CEMENT CONCRETE WILL BE ELIMINATED AND THE GRAVEL BROUGHT UP TO BOTTOM OF THE PAVEMENT.

**CURB SETTING/RESETTING DETAIL**

NOT TO SCALE



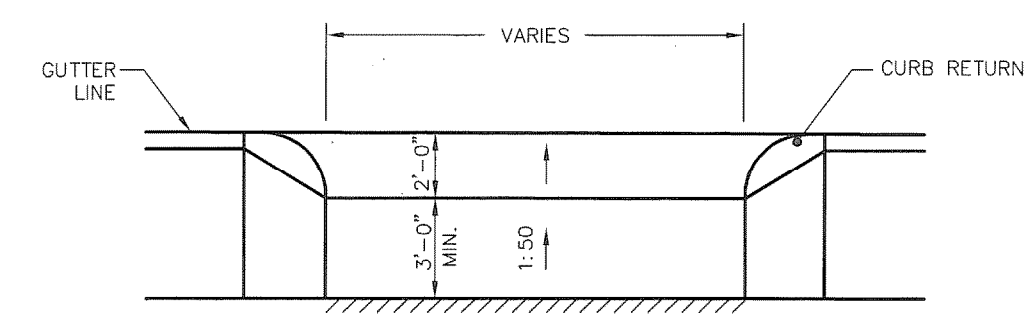
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**NOTES:**

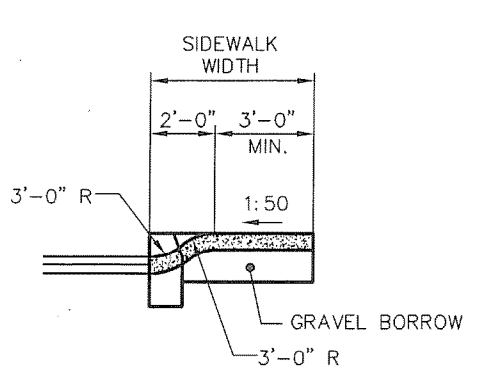
1. SHALL BE IN ACCORDANCE WITH SECTIONS 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. CEMENT CONCRETE SHALL BE USED ONLY WHEN THE COBBLESTONES ARE SET AFTER THE BASE AND/OR BINDER COURSES ARE IN PLACE, OTHERWISE THE CEMENT CONCRETE WILL BE ELIMINATED AND THE GRAVEL BROUGHT UP TO BOTTOM OF THE BASE COURSE.

**FLUSH COBBLE MEDIAN DETAIL**

NOT TO SCALE



**PLAN**



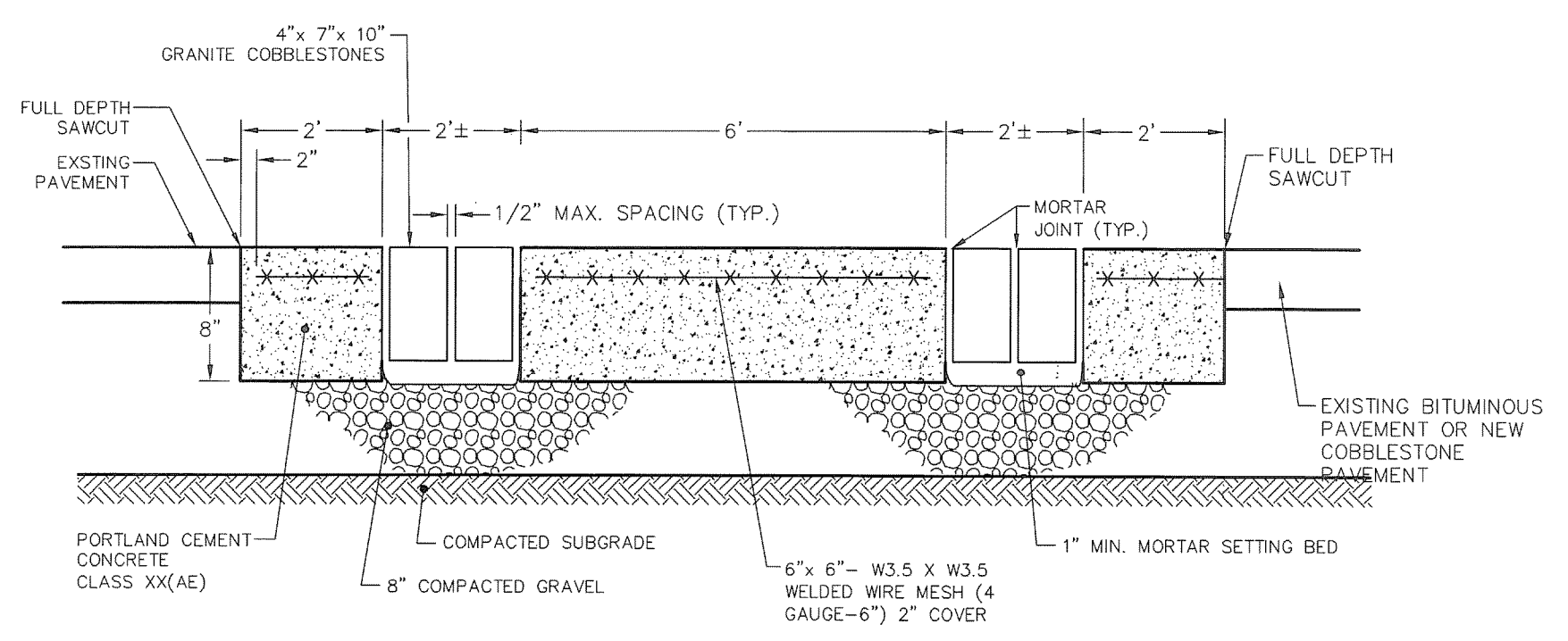
**SECTION**

**NOTES:**

- SHALL BE IN ACCORDANCE WITH SECTION 904 OR THE R.I. STANDARD SPECIFICATIONS.

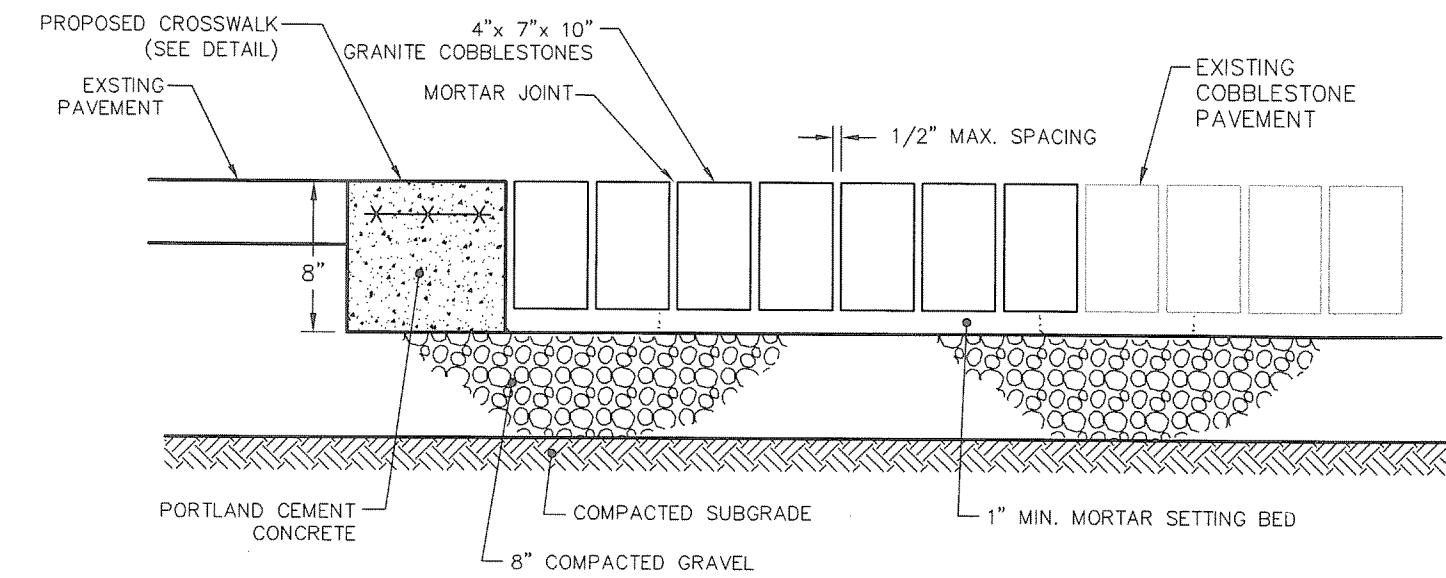
**DRIVEWAY DEVELOPMENT FOR 2'-0" CURB RETURN** (DW)

NOT TO SCALE



**PROPOSED CROSSWALK DETAIL**

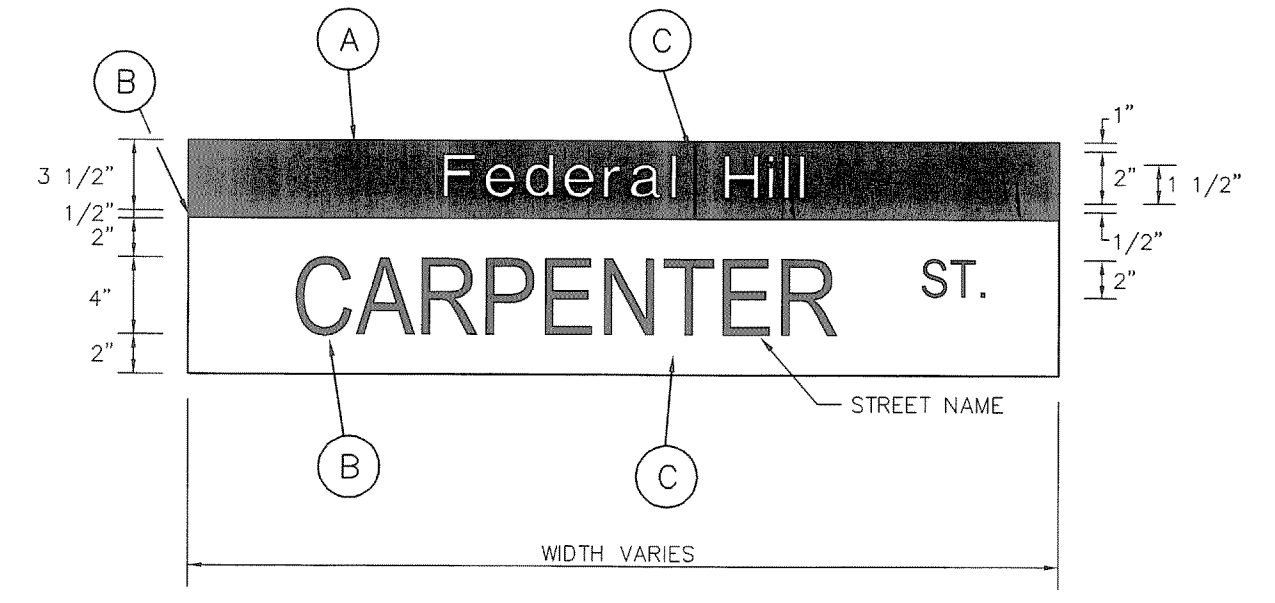
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**SECTION**

**COBBLESTONE PAVING DETAIL**

NOT TO SCALE



**GROUND MOUNTED**

**NOTES:**

1. STREET NAME SIGNS TO BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS.
2. SEE PLANS FOR STREET NAME LEGENDS.
3. SIGN PANELS SHALL BE ALUMINUM SHEETS CONFORMING TO THE RIOT STANDARD DETAILS.

**COLOR SCHEME**

- (A) = PMS 188 BURGUNDY
- (B) = PMS BLACK
- (C) = 3M SCOTCHLITE DIAMOND GRADE REFLECTIVE SHEETING, #990-10, WHITE

**FONTS**

SUBDISTRICT NAME= CG TRIUMPHATE BOLD (75%)  
STREET NAME= ARIAL NARROW

**STREET NAME SIGN DETAIL**

NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
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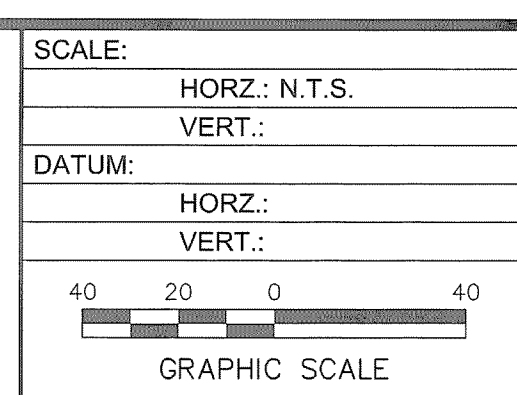
Environmental Management  
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Office of Water Resources

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CHIEF DESIGNER: DAK  
REVIEWED BY: DATE

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CITY OF PROVIDENCE  
MISCELLANEOUS DETAILS  
LUONGO SQUARE STREETSCAPE  
PROVIDENCE RHODE ISLAND

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XX-XXX