

STA. 1+26.40-31' LT  
FURNISH & INSTALL ACO CROSS  
SIDEWALK TRENCH DRAIN SYSTEM  
SEE DETAIL (2) DTL-2

STA. 1+20.12-32' LT  
DOWEL INTO EXISTING  
SIDEWALK @ 24" O.C.  
TYPICAL AT ALL NEW CONC. TO  
EXIST. CONC. LOCATIONS  
SEE SIMILAR DETAIL (6) DTL-1 SIM

STA. 1+20.12-32' LT TO  
STA. 2+39.33-32' LT  
4" STANDARD CONC. APPROX. 1189 SF  
'RAWHIDE' COLORED CONC. APPROX. 309 SF  
'ROSEMARY' COLORED CONC. APPROX. 641 SF

STA. 1+28.78-35' RT  
FURNISH & INSTALL ACO CROSS  
SIDEWALK TRENCH DRAIN SYSTEM  
SEE DETAIL (2) DTL-2

STA. 1+28.78-30' RT TO  
STA. 2+41.45-37' RT  
4" STANDARD CONC. APPROX. 967 SF  
'RAWHIDE' COLORED CONC. APPROX. 451 SF  
'ROSEMARY' COLORED CONC. APPROX. 600 SF

STA. 1+28.78-31' RT  
DOWEL INTO EXISTING  
SIDEWALK @ 24" O.C.  
TYPICAL AT ALL NEW CONC. TO  
EXIST. CONC. LOCATIONS  
SEE SIMILAR DETAIL (6) DTL-1 SIM

STA. 1+52.16-32' LT  
FURNISH & INSTALL ACO CROSS  
SIDEWALK TRENCH DRAIN SYSTEM  
SEE DETAIL (2) DTL-2

STA. 1+58.86-35' LT &  
STA. 1+61.17-35' LT  
FURNISH & INSTALL (2)  
9X4 TREE GRATES  
SEE DETAIL (1&3) DTL-6

STA. 2+34.27-31.7' LT  
6" REINF. CONC. DRIVEWAY  
APPROACH PER CITY DETAIL  
APPROX. 521 SF  
SEE DETAIL (6) DTL-1

DECORATIVE CONCRETE PANEL  
TYPICAL AT ENTRIES. PLAN:  
COLORED CONC. PANEL  
SEE DETAIL (1) DTL-2

STA. 2+88.22-35' LT,  
STA. 3+15.34-35' LT &  
STA. 3+45.18-35' LT  
FURNISH & INSTALL (3)  
9X4 TREE GRATES  
SEE DETAIL (1&3) DTL-6

DECORATIVE CONCRETE PANEL  
TYPICAL AT ENTRIES. PLAN:  
COLORED CONC. PANEL  
SEE DETAIL (1) DTL-2

STA. 2+82.21-31' RT  
STA. 2+95.21-31' RT  
STA. 3+14.72-31' RT  
STA. 3+27.86-31' RT  
STA. 3+50.57-31' RT  
STA. 3+64.16-31' RT  
FURNISH & INSTALL ACO  
CROSS SIDEWALK  
TRENCH DRAIN SYSTEM  
SEE DETAIL (2) DTL-2

STA. 2+73.31-36.8' RT TO  
STA. 3+71.71-62' RT  
FURNISH & INSTALL (3)  
RAIN GARDEN PLANTERS  
SEE DETAIL (1-4) DTL-4

STA. 2+94.74-39' RT TO  
STA. 3+84.19-30.7' RT  
FURNISH & INSTALL 4"  
DRAIN PIPE, APPROX. 57 LF

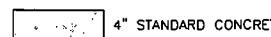

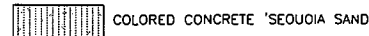
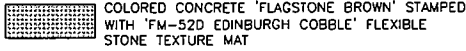
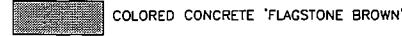
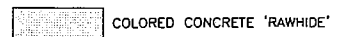

STA. 2+82.6-39' RT TO  
STA. 3+84.19-34.8' RT  
FURNISH & INSTALL 4"  
PERFORATED DRAIN PIPE,  
APPROX. 55 LF

DECORATIVE CONCRETE PANEL  
TYPICAL AT ENTRIES. PLAN:  
COLORED CONC. PANEL  
SEE DETAIL (1) DTL-2

STA. 2+36.09-32' RT  
6" REINF. CONC. DRIVEWAY  
APPROACH PER CITY DETAIL  
APPROX. 407 SF  
SEE DETAIL (6) DTL-1

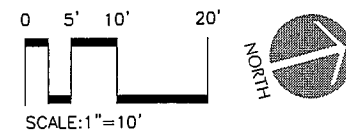
STA. 2+65.46-36.7' RT TO  
STA. 4+03.80-32.7' RT  
4" STANDARD CONC. APPROX. 1491 SF  
'RAWHIDE' COLORED CONC. APPROX. 431 SF  
'ROSEMARY' COLORED CONC. APPROX. 550 SF

CONCRETE TYPE KEY:

-  4" STANDARD CONCRETE
-  6" CONCRETE DRIVEWAY APPROACH
-  COLORED CONCRETE 'SEQUIOIA SAND'
-  COLORED CONCRETE 'FLAGSTONE BROWN' STAMPED WITH 'FM-52D EDINBURGH COBBLE' FLEXIBLE STONE TEXTURE MAT
-  COLORED CONCRETE 'FLAGSTONE BROWN'
-  COLORED CONCRETE 'RAWHIDE'
-  COLORED CONCRETE 'ROSEMARY'

NOTES:  
1. ALL CONCRETE FINISHES TO BE MEDIUM BROOM FINISH, ALTERNATING DIRECTIONS EA. SQUARE.  
2. CONCRETE COLORS SUPPLIED BY: DAVIS COLORS, 3700 EAST OLYMPIC BLVD. LOS ANGELES, CA 90023-3123 1.800.356.4848  
3. FLEXIBLE TEXTURE MAT SUPPLIED BY: BRICKFORM - RAFCO PRODUCTS, 11061 JERSEY BLVD. RANCHO CUCAMONGA, CA 91730 800.483.9628 www.brickform.com

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**Wyss Associates, Inc.**

Landscape Architecture - Golf Course Architecture - Parks & Recreation Design  
728 Sixth Street Rapid City, South Dakota 57701-3670 605.348.2268 Fax 605.348.6506 email: info@wyssassociates.com



517 7th Street Rapid City SD 57701  
ph: 605.342.2470 fax: 605.342.2377  
www.4front.biz



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Review Set

Scale: AS SHOWN

Designed By: MF  
Drawn By: MFM/JAW  
Design Date: 12-23-09  
Print Date: 7-02-10

Internal Job No: 08103

Surveyed By: Survey Date:

Revisions:

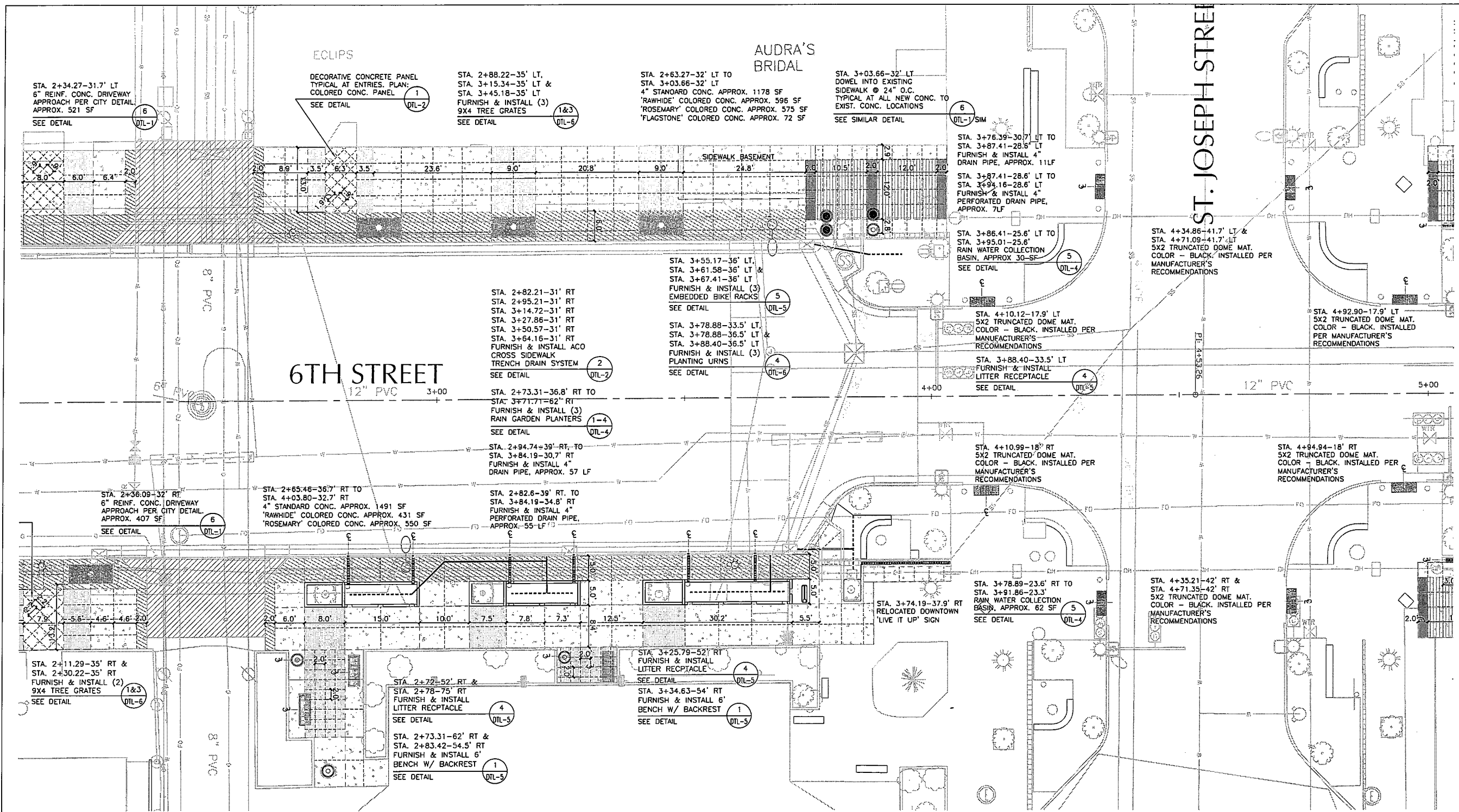
**DOWNTOWN STREET RECONSTRUCTION**  
**SIXTH STREET**  
**OMAHA STREET TO KANSAS CITY STREET**  
RAPID CITY, SOUTH DAKOTA

CITY PROJECT #  
ST10-1817









Sheet Title:  
6TH ST.- KC TO ST JOE

LAYOUT PLAN  
STA 1+00 TO 3+00

Sheet:  
**L-1**



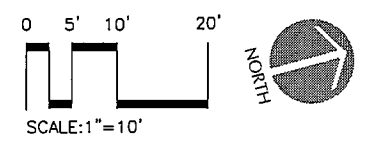
**CONCRETE TYPE KEY:**

 4" STANDARD CONCRETE	 6" CONCRETE DRIVEWAY APPROACH
 COLORED CONCRETE 'SEQUOIA SAND'	 COLORED CONCRETE 'FLAGSTONE BROWN' STAMPED WITH 'FM-520 EDINBURGH COBBLE' FLEXIBLE STONE TEXTURE MAT
 COLORED CONCRETE 'FLAGSTONE BROWN'	<b>NOTES:</b>
 COLORED CONCRETE 'RAWHIDE'	1. ALL CONCRETE FINISHES TO BE MEDIUM BROOM FINISH, ALTERNATING DIRECTIONS EA. SQUARE.
 COLORED CONCRETE 'ROSEMARY'	2. CONCRETE COLORS SUPPLIED BY: DAVIS COLORS, 3700 EAST OLYMPIC BLVD., LOS ANGELES, CA 90023-3123, 1.800.356.4848
 SECTION: TYPICAL CONCRETE PAVING SEE DETAIL	3. FLEXIBLE TEXTURE MAT SUPPLIED BY: BRICKFORM - RAFCO PRODUCTS, 11061 JERSEY BLVD., RANCHO CUCAMONGA, CA 91730, 800.483.9628, www.brickform.com

**EXISTING UTILITIES LOCATIONS:**  
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**Wyss Associates, Inc.**  
 Landscape Architecture - Golf Course Architecture - Parks & Recreation Design

728 Sixth Street Rapid City, South Dakota 57701-3670 605.348.2268 Fax 605.348.6506 email: info@wyssassociates.com



Prepared For: Public Works Department  
 517 7th street rapid city sd 57701  
 ph: 605.342.9470 fax: 605.342.2377  
 www.4front.biz

ARCHITECTURE ENGINEERING GIS SURVEYING

FOUR FRONT DESIGN INC.

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Designed By: MF	Drawn By: MF/MJ/AW
Design Date: 12-23-09	Print Date: 7-02-10
Internal Job No: 08103	Surveyed By: Survey Date:
Revisions:	

**DOWNTOWN STREET RECONSTRUCTION**  
**SIXTH STREET**  
 OMAHA STREET TO KANSAS CITY STREET  
 RAPID CITY, SOUTH DAKOTA

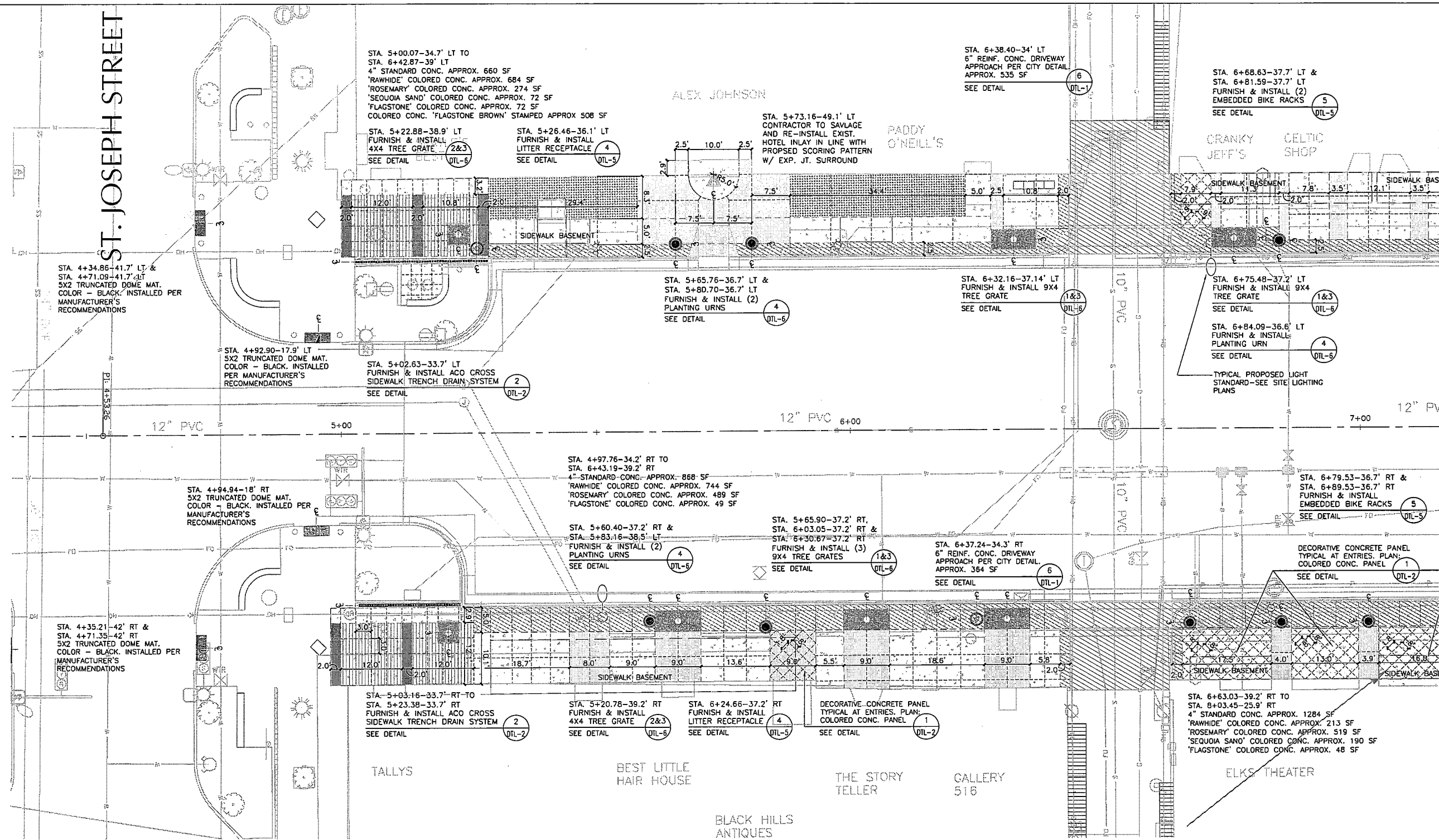
CITY PROJECT # ST10-1817

Sheet Title: 6TH ST. - KC TO ST JOE

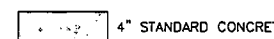

LAYOUT PLAN  
 STA 3+00 TO 4+50

Sheet: **L-2**

ST. JOSEPH STREET



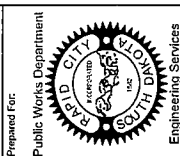
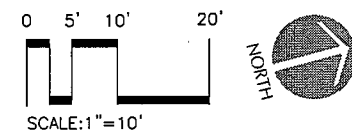
CONCRETE TYPE KEY:

- |   |   |  |  |
|---|---|--|--|
|  | 4" STANDARD CONCRETE                        |    | 6" CONCRETE DRIVEWAY APPROACH  |
|   | COLORED CONCRETE 'SEQUOIA SAND'             |  | COLORED CONCRETE 'FLAGSTONE BROWN' STAMPED WITH 'FM-520 EDINBURGH COBBLE' FLEXIBLE STONE TEXTURE MAT |
|   | COLORED CONCRETE 'FLAGSTONE BROWN'          | <b>NOTES:</b>  |  |
|   | COLORED CONCRETE 'RAWHIDE'                  | 1. ALL CONCRETE FINISHES TO BE MEDIUM BROOM FINISH, ALTERNATING DIRECTIONS EA. SQUARE.   |  |
|   | COLORED CONCRETE 'ROSEMARY'                 | 2. CONCRETE COLORS SUPPLIED BY: DAVIS COLORS, 3700 EAST OLYMPIC BLVD., LOS ANGELES, CA 90023-3123, 1.800.356.4848                                |  |
|   | SECTION: TYPICAL CONCRETE PAVING SEE DETAIL | 3. FLEXIBLE TEXTURE MAT SUPPLIED BY: BRICKFORM - RAFCO PRODUCTS, 11061 JERSEY BLVD., RANCHO CUCAMONGA, CA 91730, 800.483.9628, www.brickform.com |  |

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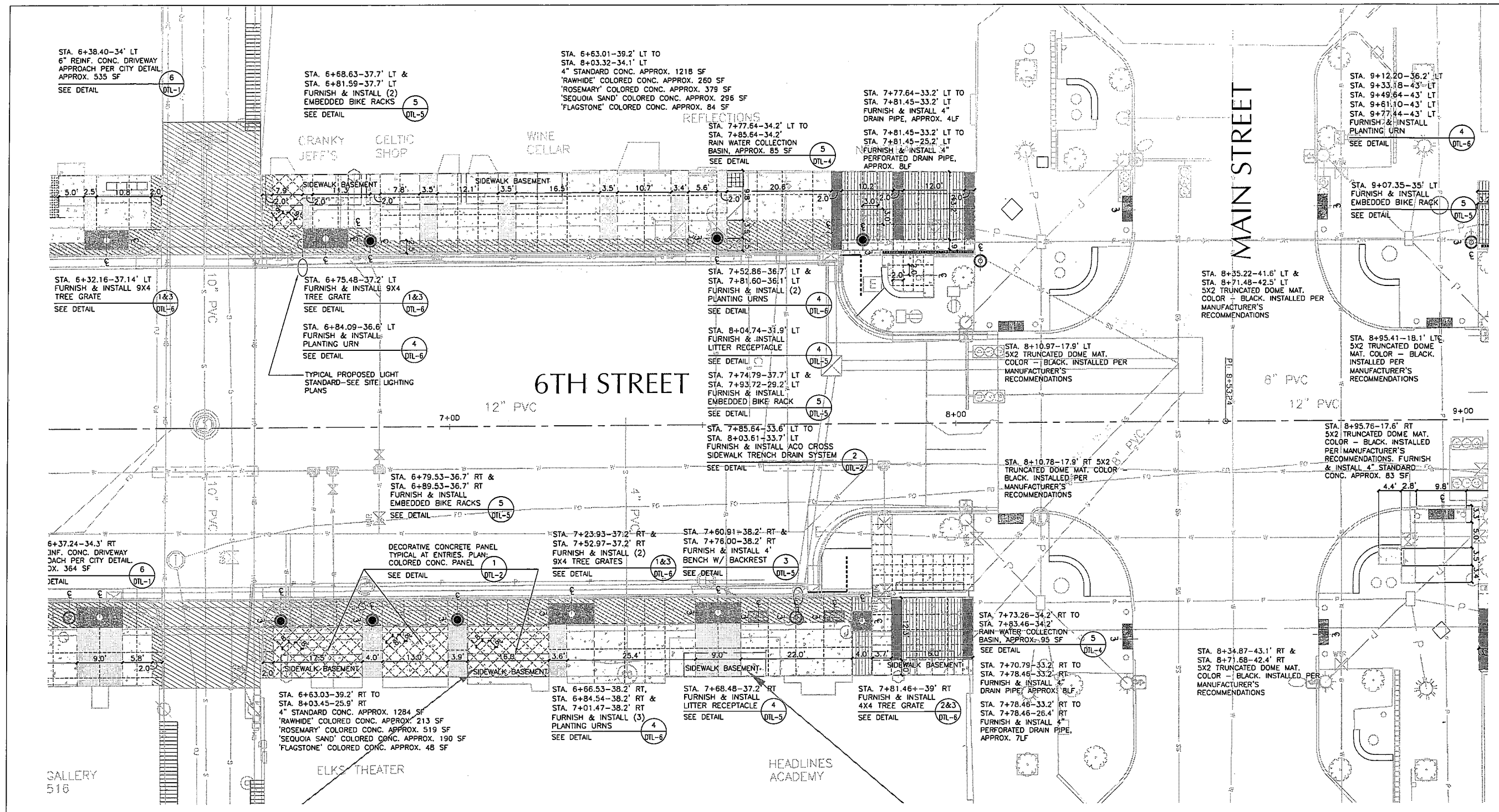


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Scale: AS SHOWN  
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 Drawn By: MFM/JAW  
 Design Date: 12-23-09  
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 Surveyed By: Survey Date:  
 Revisions:

DOWNTOWN STREET RECONSTRUCTION  
 SIXTH STREET  
 OMAHA STREET TO KANSAS CITY STREET  
 RAPID CITY, SOUTH DAKOTA

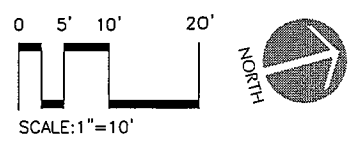
CITY PROJECT #  
 ST10-1817  
 Sheet Title:  
 6TH ST. - KC TO ST JOE  
 LAYOUT PLAN  
 STA 4+50 TO 7+00  
 Sheet:  
 L-3



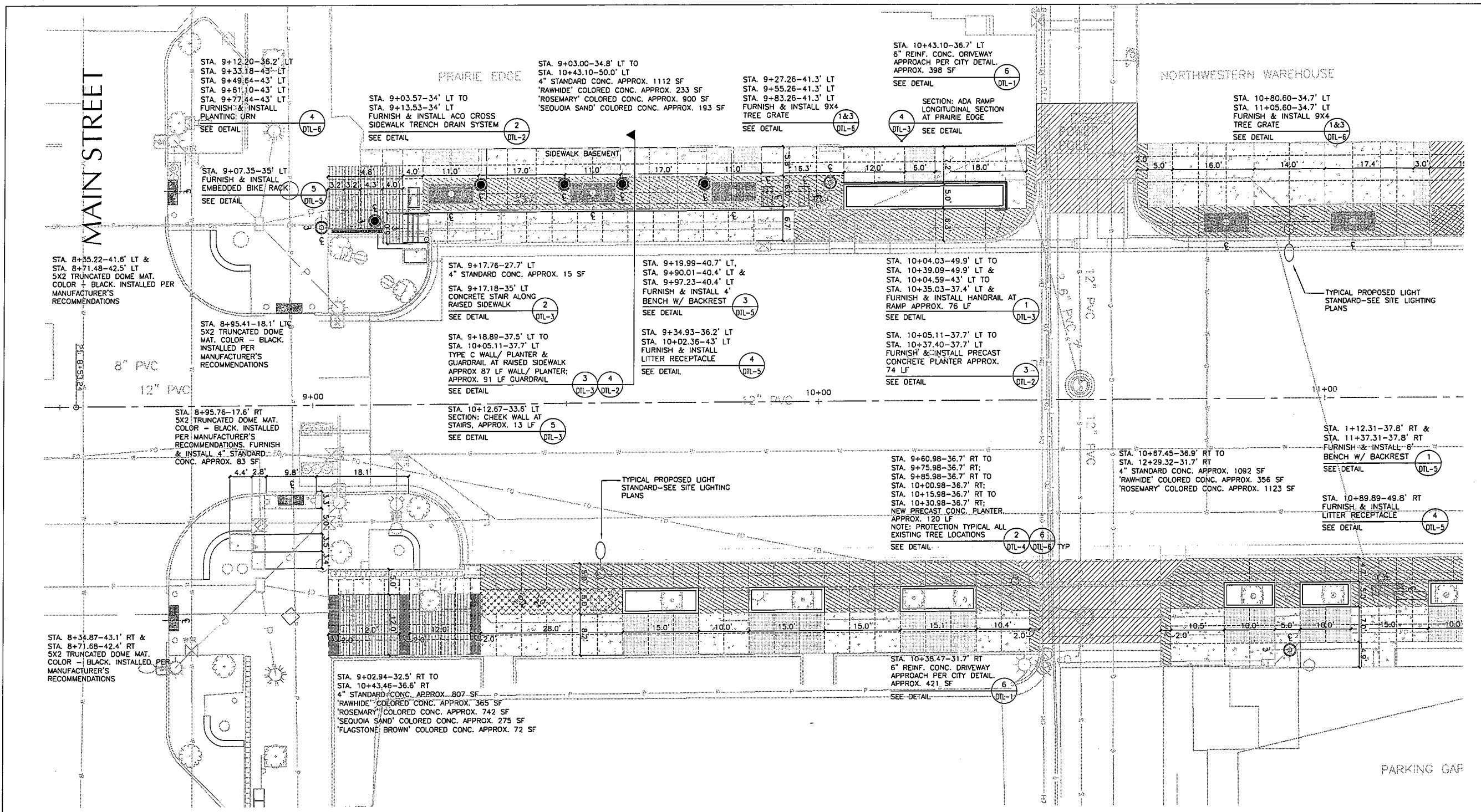
CONCRETE TYPE KEY:

- 4" STANDARD CONCRETE
  - 6" CONCRETE DRIVEWAY APPROACH
  - COLORED CONCRETE 'SEQUOIA SAND'
  - COLORED CONCRETE 'FLAGSTONE BROWN' STAMPED WITH 'FM-520 EDINBURGH COBBLE' FLEXIBLE STONE TEXTURE MAT
  - COLORED CONCRETE 'FLAGSTONE BROWN'
  - COLORED CONCRETE 'RAWHIDE'
  - COLORED CONCRETE 'ROSEMARY'
- NOTES:  
 1. ALL CONCRETE FINISHES TO BE MEDIUM BROOM FINISH, ALTERNATING DIRECTIONS EA. SQUARE.  
 2. CONCRETE COLORS SUPPLIED BY: DAVIS COLORS, 3700 EAST OLYMPIC BLVD, LOS ANGELES, CA 90023-3123, 1.800.356.4848  
 3. FLEXIBLE TEXTURE MAT SUPPLIED BY: BRICKFORM - RAFCO PRODUCTS, 11061 JERSEY BLVD, RANCHO CUCAMONGA, CA 91730, 800.483.9628, www.brickform.com

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 728 Sixth Street Rapid City, South Dakota 57701-3670 605.348.2268 Fax 605.348.6506  
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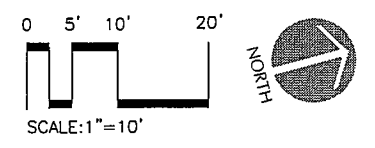
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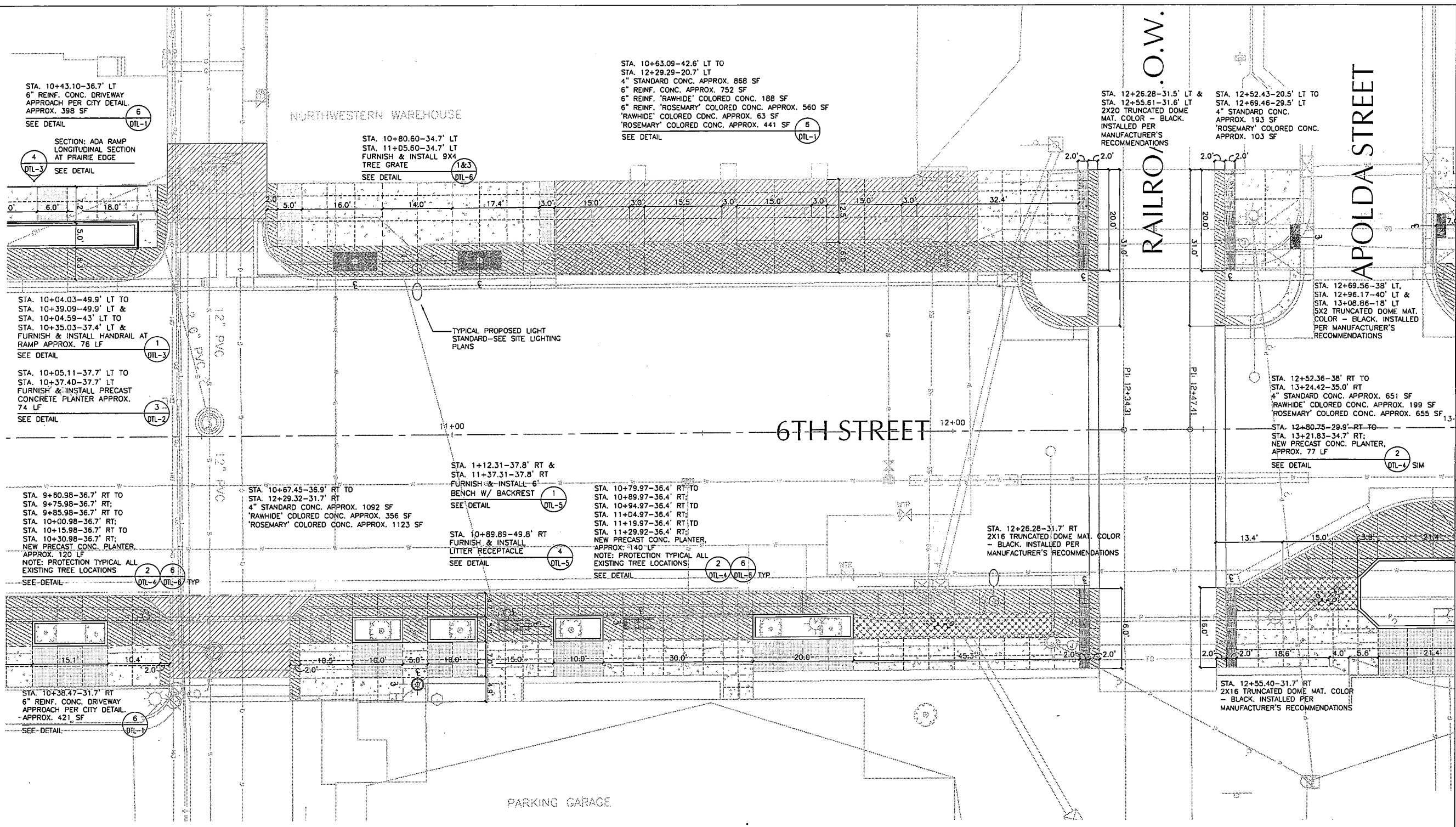
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|------------------------------------|---|
| 4" STANDARD CONCRETE               | 6" CONCRETE DRIVEWAY APPROACH   |
| COLORED CONCRETE 'SEQUOIA SAND'    | COLORED CONCRETE 'FLAGSTONE BROWN' STAMPED WITH 'FM-520 EDINBURGH COBBLE' FLEXIBLE STONE TEXTURE MAT  |
| COLORED CONCRETE 'FLAGSTONE BROWN' | <b>NOTES:</b>   |
| COLORED CONCRETE 'RAWHIDE'         | 1. ALL CONCRETE FINISHES TO BE MEDIUM BROOM FINISH.   |
| COLORED CONCRETE 'ROSEMARY'        | 2. ALTERNATING DIRECTIONS EA. SQUARE.   |
|                                    | 2. CONCRETE COLORS SUPPLIED BY:<br>DAVIS COLORS<br>3700 EAST OLYMPIC BLVD.<br>LOS ANGELES, CA 90023-3123<br>1.800.356.4848                                  |
|                                    | 3. FLEXIBLE TEXTURE MAT SUPPLIED BY:<br>BRICKFORM - RAFCO PRODUCTS<br>11061 JERSEY BLVD.<br>RANCHO CUCAMONGA, CA 91730<br>800.483.9628<br>www.brickform.com |
- SECTION: TYPICAL CONCRETE PAVING SEE DETAIL

EXISTING UTILITIES LOCATIONS:  
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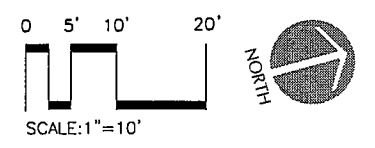


**CONCRETE TYPE KEY:**

	4" STANDARD CONCRETE		6" CONCRETE DRIVEWAY APPROACH
	COLORED CONCRETE 'SEQUOIA SAND'		COLORED CONCRETE 'FLAGSTONE BROWN' STAMPED WITH 'FM-520 EDINBURGH COBBLE' FLEXIBLE STONE TEXTURE MAT
	COLORED CONCRETE 'FLAGSTONE BROWN'	<b>NOTES:</b>	
	COLORED CONCRETE 'RAWHIDE'	1. ALL CONCRETE FINISHES TO BE MEDIUM BROOM FINISH, ALTERNATING DIRECTIONS EA. SQUARE.	
	COLORED CONCRETE 'ROSEMARY'	2. CONCRETE COLORS SUPPLIED BY: DAVIS COLORS, 3700 EAST OLYMPIC BLVD., LOS ANGELES, CA 90023-3123, 1.800.356.4848	
SECTION: TYPICAL CONCRETE PAVING		3. FLEXIBLE TEXTURE MAT SUPPLIED BY: BRICKFORM - RAFCO PRODUCTS, 11061 JERSEY BLVD., RANCHO CUCAMONGA, CA 91730, 800.483.9628, www.brickform.com	

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Prepared For: Public Works Department  
 City of Rapid City, South Dakota  
 517 7th Street Rapid City SD 57701  
 ph: 605.342.9470 fax: 605.342.2377  
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Revisions:

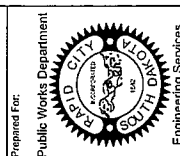
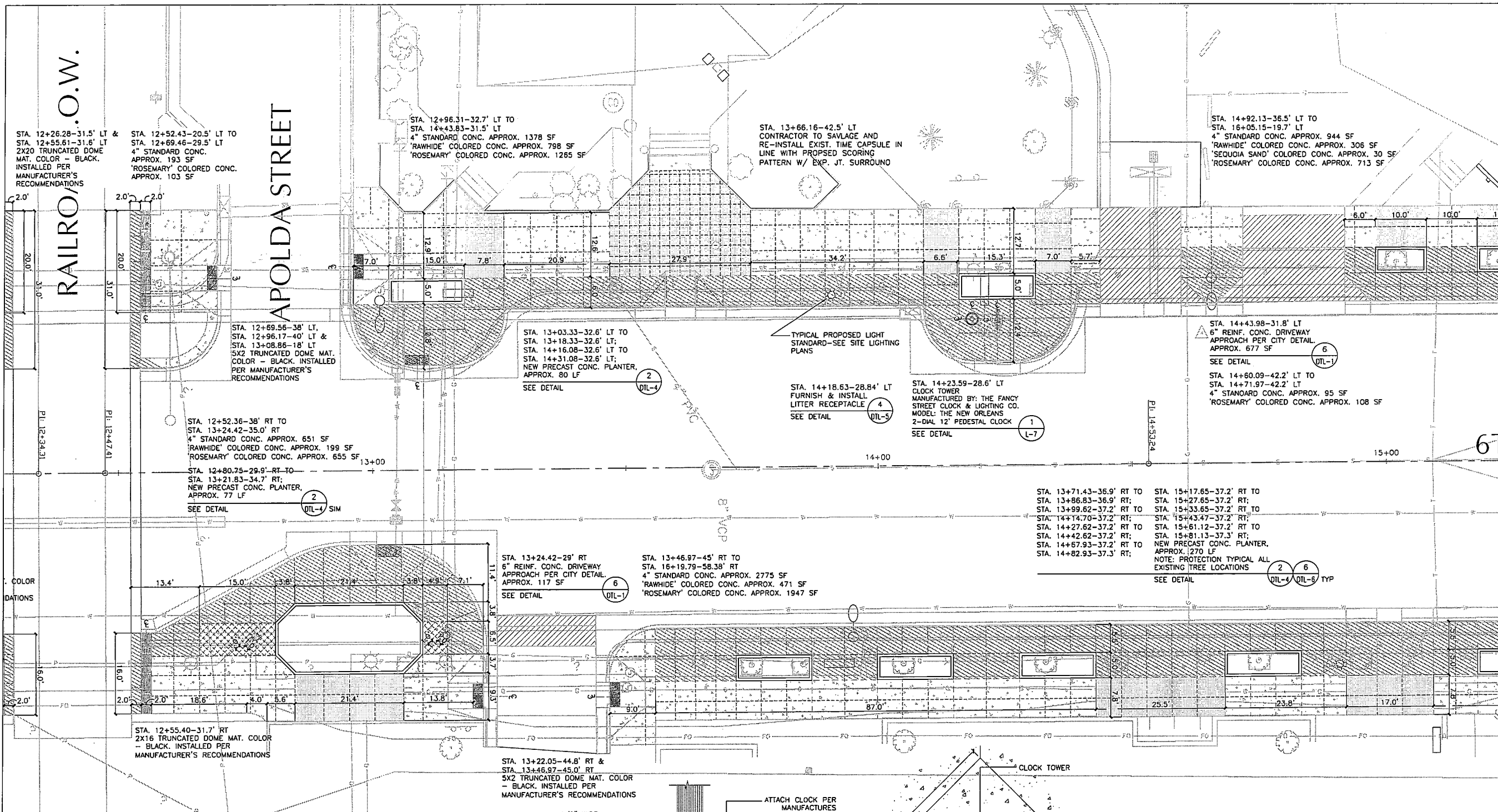
**DOWNTOWN STREET RECONSTRUCTION**  
**SIXTH STREET**  
**OMAHA STREET TO KANSAS CITY STREET**  
 RAPID CITY, SOUTH DAKOTA

CITY PROJECT # ST10-1817

Sheet Title: 6TH ST. - KC TO ST JOE

LAYOUT PLAN  
 STA 11+00 TO 13+00

Sheet: **L-6**



Public Works Department  
 517 7th Street Rapid City SD 57701  
 ph: 605.342.9470 fax: 605.342.2377  
 www.rapidcity.org



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 Surveyed By: Survey Date:

Revisions:

DOWNTOWN STREET RECONSTRUCTION  
 SIXTH STREET  
 OMAHA STREET TO KANSAS CITY STREET  
 RAPID CITY, SOUTH DAKOTA

CITY PROJECT # ST10-1817  
 Sheet Title: 6TH ST.- KC TO ST JOE  
 LAYOUT PLAN  
 STA 13+00 TO 15+50  
 Sheet: L-7



Prepared For:  
Public Works Department  
517 7th street rapid city sd 57701  
ph: 605.342.9470 fax: 605.342.2377  
www.rapidcity.gov

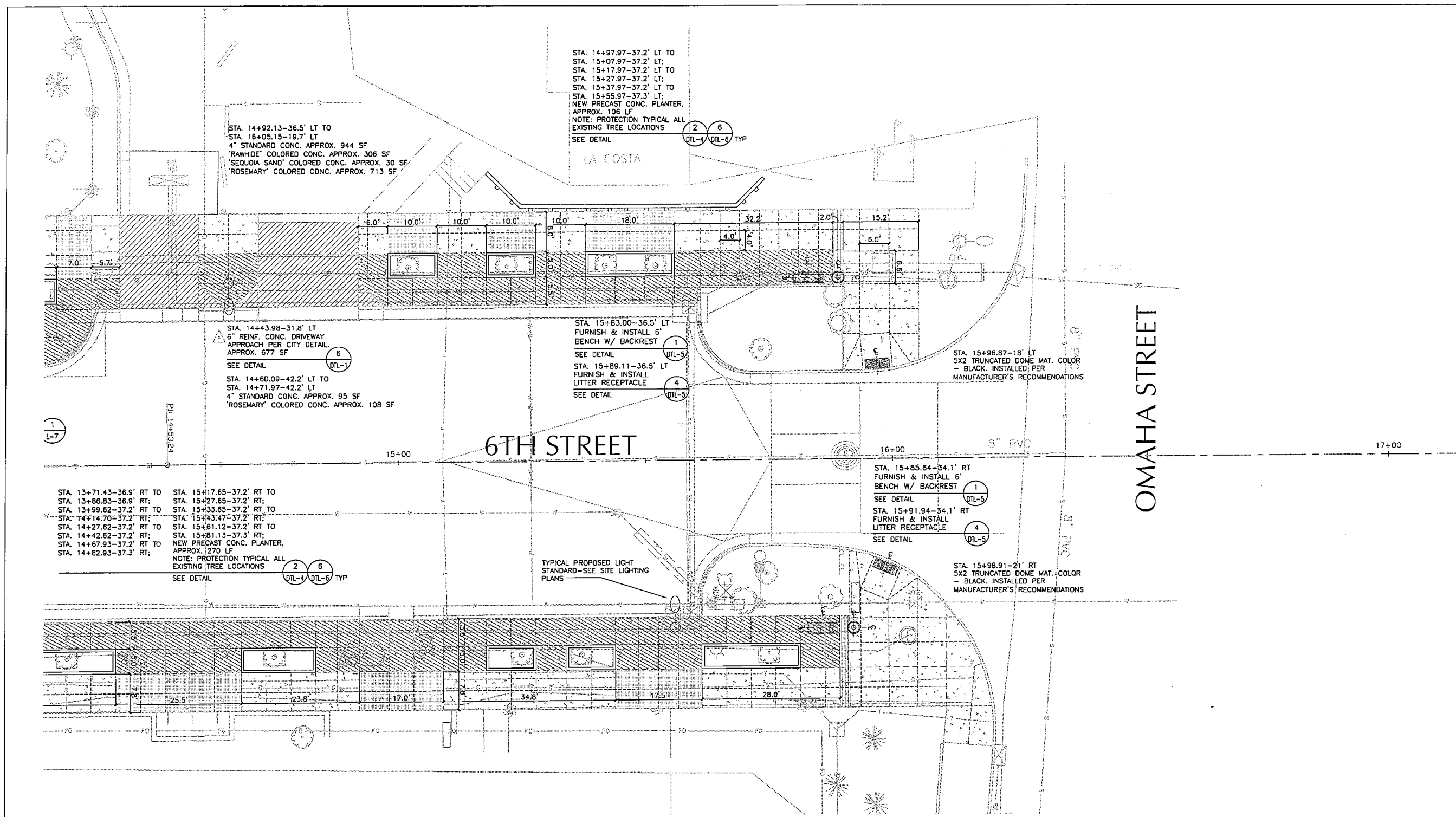


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Designed By: MF  
Drawn By: MFM/JAW  
Design Date: 12-23-09  
Print Date: 7-02-10  
Internal Job No: 08103  
Surveyed By: -  
Survey Date: -  
Revisions:

**DOWNTOWN STREET RECONSTRUCTION**  
**SIXTH STREET**  
**OMAHA STREET TO KANSAS CITY STREET**  
RAPID CITY, SOUTH DAKOTA

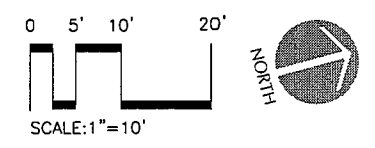
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Sheet Title: 6TH ST. - KC TO ST JOE  
LAYOUT PLAN  
STA 15+50 TO 16+00  
Sheet: L-8



**CONCRETE TYPE KEY:**

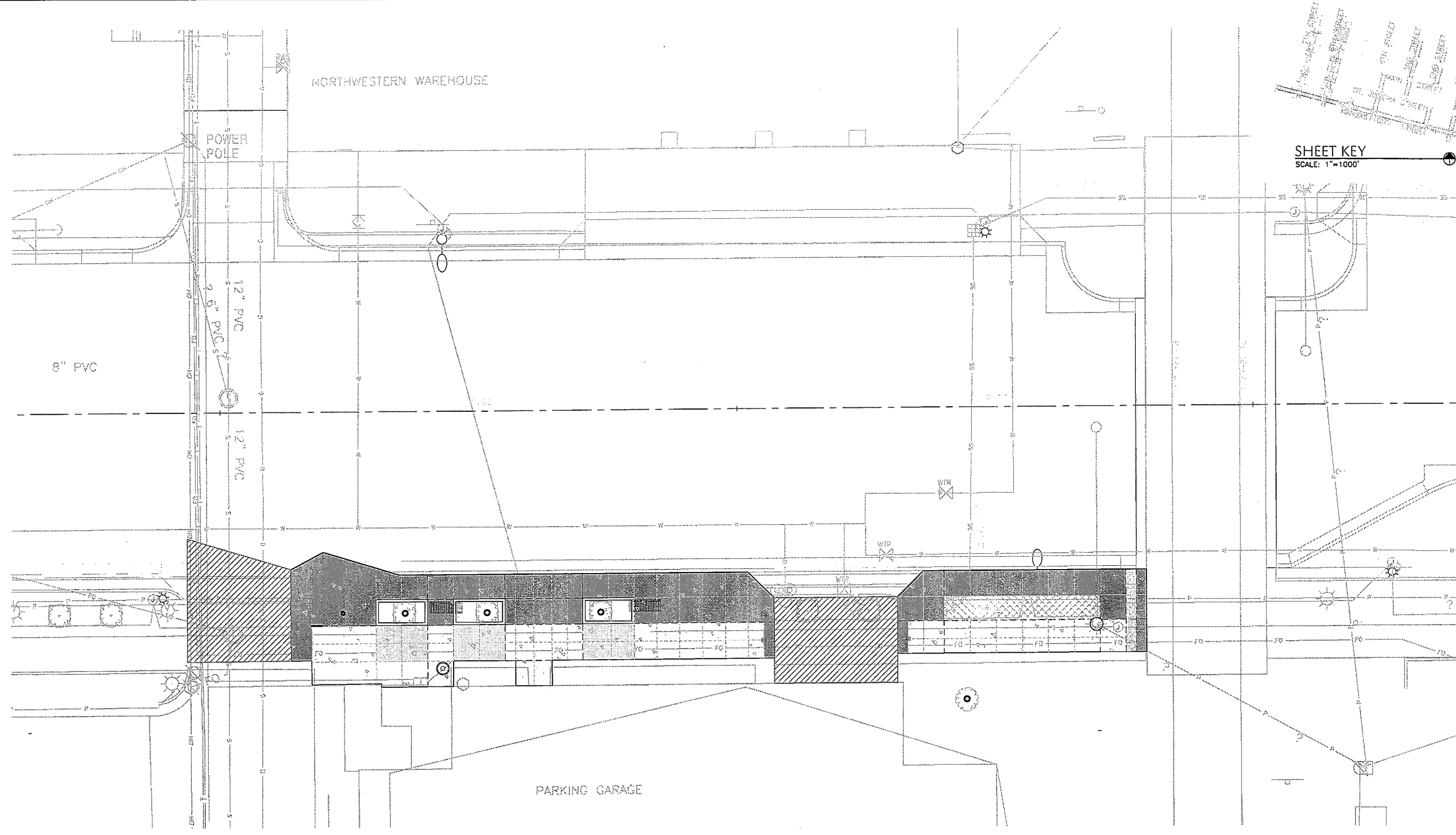
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|---|-------------------------------------|--|---|
|   | 4" STANDARD CONCRETE                |  | 6" CONCRETE DRIVEWAY APPROACH   |
|   | COLORLED CONCRETE 'SEQUOIA SAND'    |  | COLORLED CONCRETE 'FLAGSTONE BROWN' STAMPED WITH 'FM-520 EDINBURGH COBBLE' FLEXIBLE STONE TEXTURE MAT |
|   | COLORLED CONCRETE 'FLAGSTONE BROWN' | <b>NOTES:</b>  |   |
|   | COLORLED CONCRETE 'RAWHIDE'         | 1. ALL CONCRETE FINISHES TO BE MEDIUM BROOM FINISH, ALTERNATING DIRECTIONS EA. SQUARE.   |   |
|   | COLORLED CONCRETE 'ROSEMARY'        | 2. CONCRETE COLORS SUPPLIED BY: DAVIS COLORS, 3700 EAST OLYMPIC BLVD., LOS ANGELES, CA 90023-3123, 1.800.356.4848                                |   |
| SECTION: TYPICAL CONCRETE PAVING (3) SEE DETAIL (DTL-1) |                                     | 3. FLEXIBLE TEXTURE MAT SUPPLIED BY: BRICKFORM - RAFCO PRODUCTS, 11061 JERSEY BLVD., RANCHO CUCAMONGA, CA 91730, 800.483.9628, www.brickform.com |   |

**EXISTING UTILITIES LOCATIONS:**  
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNERS OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONTACT THE SOUTH DAKOTA ONE CALL NOTIFICATION CENTER 2025 CENTRE POINTE BOULEVARD #310 MENDOTA HEIGHTS, MN 55120 1-800-781-7474

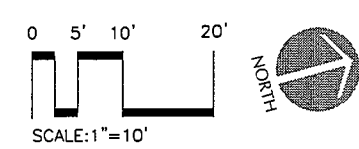


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










**SHEET KEY**  
SCALE: 1"=1000'



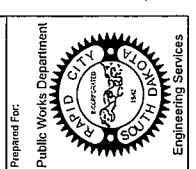
**CONCRETE TYPE KEY:**

- |  |  |
|--|--|
|  4" STANDARD CONCRETE               |  6" CONCRETE DRIVEWAY APPROACH  |
|  COLORED CONCRETE 'SEOUIA SAND'     |  COLORED CONCRETE 'FLAGSTONE BROWN' STAMPED WITH 'FM-520 EOINBURGH COBBLE' FLEXIBLE STONE TEXTURE MAT |
|  COLORED CONCRETE 'FLAGSTONE BROWN' | <b>NOTES:</b>  |
|  COLORED CONCRETE 'RAWHIDE'         | 1. ALL CONCRETE FINISHES TO BE MEDIUM BROOM FINISH, ALTERNATING DIRECTIONS EA. SQUARE.   |
|  COLORED CONCRETE 'ROSEMARY'        | 2. CONCRETE COLORS SUPPLIED BY:<br>OAVIS COLORS<br>3700 EAST OLYMPIC BLVD.<br>LOS ANGELES, CA 90023-3123<br>1.800.356.4848   |
|  | 3. FLEXIBLE TEXTURE MAT SUPPLIED BY:<br>BRICKFORM - RAFCO PRODUCTS<br>11061 JERSEY BLVD.<br>RANCHO CUCAMONGA, CA 91730<br>800.483.9528<br>www.brickform.com                              |

SECTION: TYPICAL CONCRETE PAVING (3)  
SEE DETAIL (DTL-1)

**EXISTING UTILITIES LOCATIONS:**  
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517 7th Street Rapid City SD 57701  
ph: 605.342.9470 fax: 605.342.2377  
www.front.biz  
ARCHITECTURE ENGINEERING  
GIS SURVEYING



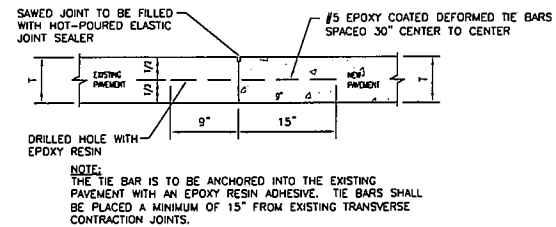
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Review Set

Scale: AS SHOWN

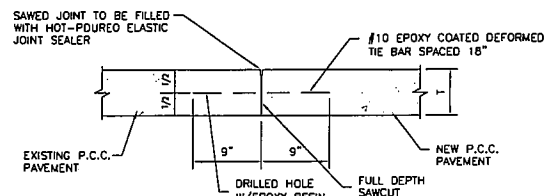
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Design Date: 12-23-09	Print Date: 7-02-10
Internal Job No: 08103	
Surveyed By:	Survey Date:
Revisions:	

**DOWNTOWN STREET RECONSTRUCTION  
SIXTH STREET  
OMAHA STREET TO KANSAS CITY STREET**  
RAPID CITY, SOUTH DAKOTA

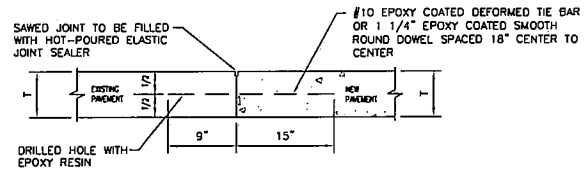
CITY PROJECT #  
ST10-1817  
Sheet Title:  
6TH ST.- KC TO ST JOE  
ALTERNATE  
LAYOUT PLAN  
STA 10+50 TO 12+50  
Sheet:  
**L-ALT**



LONGITUDINAL SAWED JOINT  
T = EXISTING AND NEW PAVEMENT THICKNESS

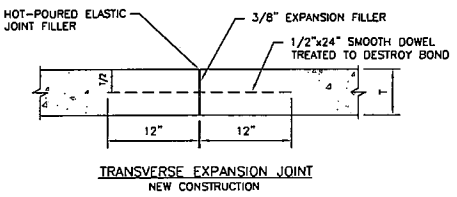


TRANSVERSE/LONGITUDINAL CONSTRUCTION JOINT W/ TIE BARS  
(EXISTING P.C.C. PAVEMENT)

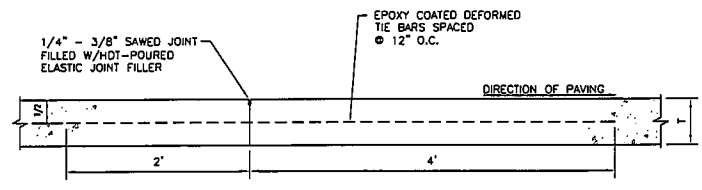


TRANSVERSE EXPANSION JOINT  
T = EXISTING AND NEW PAVEMENT THICKNESS

1 DTL-1 LONGITUDINAL JOINTS CONNECTING NEW PAVEMENT TO EXISTING  
SCALE: X" = X'-X"



TRANSVERSE EXPANSION JOINT  
NEW CONSTRUCTION

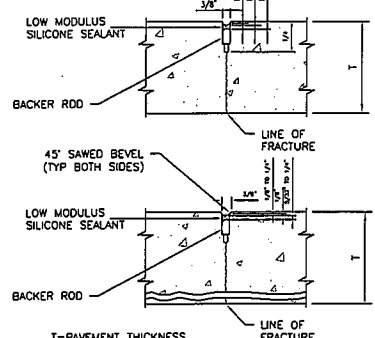


TRANSVERSE CONSTRUCTION JOINT WITH TIE BARS  
NEW CONSTRUCTION

NOTES:  
FOR TRANSVERSE CONSTRUCTION JOINTS, THE #4 EPOXY COATED DEFORMED TIE BARS SHALL BE SPACED 12" CENTER TO CENTER AND APPROXIMATELY 6" FROM THE PAVEMENT EDGES. WHEN A TRANSVERSE CONSTRUCTION JOINT IS MADE, NO PAVING WILL BE DONE IN THIS AREA FOR 12 HOURS.

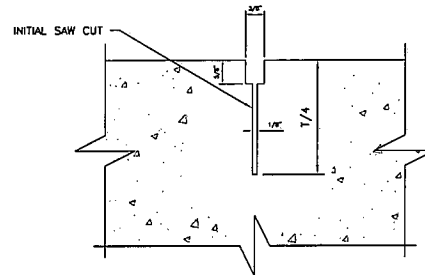
THE DISTANCE BETWEEN A TRANSVERSE CONSTRUCTION JOINT WITH TIE BARS AND AN ADJACENT TRANSVERSE CONTRACTION JOINT AT ROADWAY CENTERLINE SHALL BE 7 TO 8 FEET.

4 DTL-1 TRANSVERSE JOINT DETAILS  
SCALE: X" = X'-X"



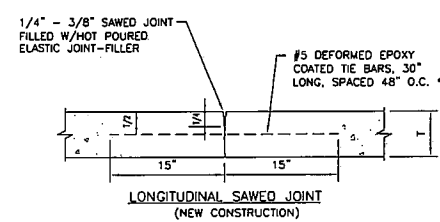
NOTE:  
THE FIRST SAW CUT TO CONTROL CRACKING SHALL BE A MINIMUM OF 1/4 THE DEPTH OF THE PAVEMENT. ADDITIONAL SAWING FOR WIDENING THE SAW CUT TO PROVIDE THE WIDTH FOR THE INSTALLATION OF THE LOW MODULUS SILICONE JOINT SEALANT WILL BE NECESSARY. BACKER ROD SHALL BE NON-MOISTURE ABSORBING RESILIENT MATERIAL APPROXIMATELY 25% LARGER IN DIAMETER THAN THE WIDTH OF THE JOINT TO BE SEALED.

TRANSVERSE CONTRACTION JOINT  
W/ BACKER ROD & SILICONE SEAL  
NEW CONSTRUCTION

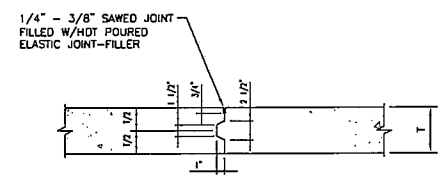


DETAIL A

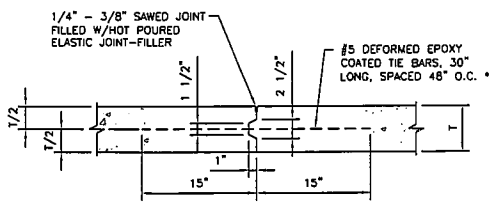
2 DTL-1 JOINT DETAILS  
SCALE: X" = X'-X"



LONGITUDINAL SAWED JOINT  
(NEW CONSTRUCTION)



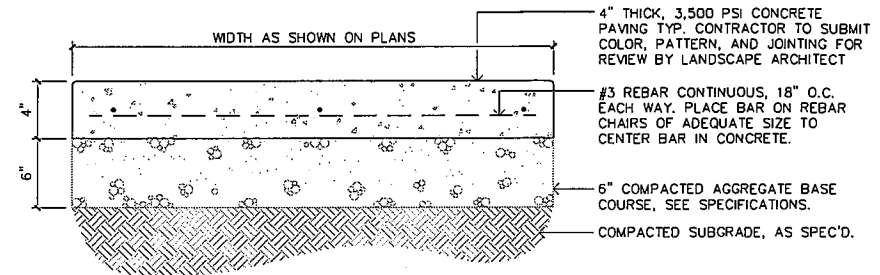
LONGITUDINAL CONSTRUCTION JOINT W/O TIE BARS  
(NEW CONSTRUCTION)



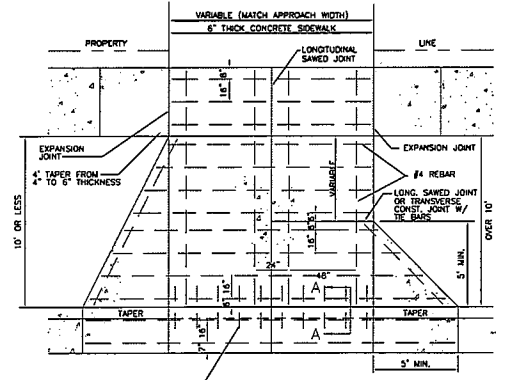
LONGITUDINAL CONSTRUCTION JOINT W/ TIE BARS  
(NEW CONSTRUCTION)

\* #4 DEFORMED EPOXY COATED TIE BAR, 30" LONG, SPACED 36" O.C. IF BENT BARS ARE PROPOSED

5 DTL-1 LONGITUDINAL JOINTS DETAILS  
SCALE: X" = X'-X"

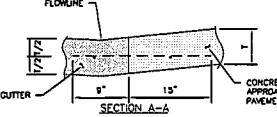


3 DTL-1 SECTION: TYPICAL CONCRETE PAVING  
SCALE: 1 1/2" = 1'-0"



NOTE:  
MINIMUM DEPTH OF GRANULAR MATERIAL PLACED UNDER REINFORCED DRIVEWAY APPROACH SHALL BE 4".

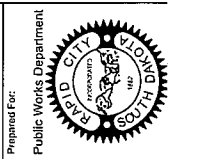
REINFORCED DRIVEWAY & SIDEWALK SHALL BE PLACED AT ALL ALLEY ENTRANCES & AT DRIVEWAYS INTO PROPERTY WHICH IS MULTI-FAMILY, COMMERCIAL, LIGHT INDUSTRIAL & HEAVY INDUSTRIAL. #4 EPOXY COATED REBAR SHALL BE PLACED AS PER DETAIL, & TIED TOGETHER. TWO INCH (2") CLEARANCE SHALL BE MAINTAINED BETWEEN BOTTOM OF CONCRETE & REBAR. (PROPERTY LINE SIDEWALK SHOWN)



6 DTL-1 REINFORCED DRIVEWAY APPROACH  
SCALE: X" = X'-X"



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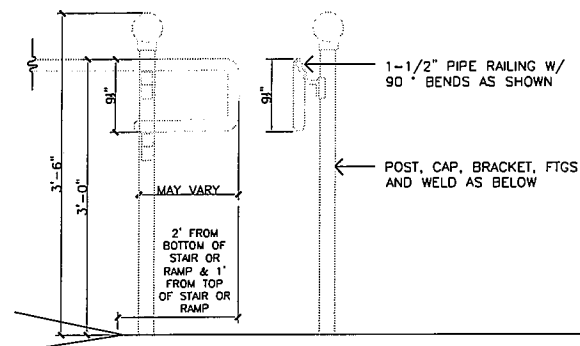
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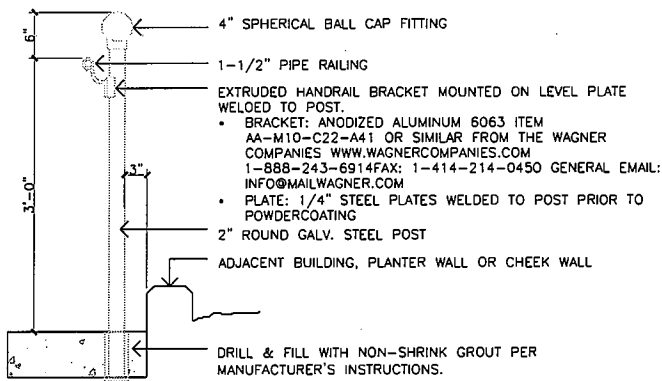
DOWNTOWN STREET RECONSTRUCTION  
SIXTH STREET  
OMAHA STREET TO KANSAS CITY STREET

CITY PROJECT #  
ST10-1817  
Sheet Title:  
6TH ST.- KC TO ST JC  
SITE DETAILS  
Sheet:  
DTL-1





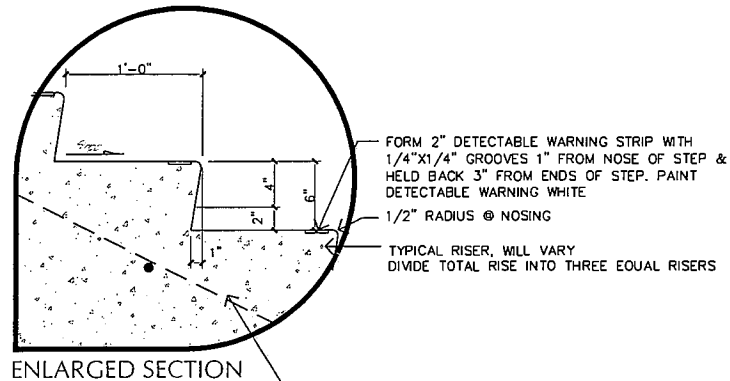
FRONT VIEW END SECTION  
SIDE VIEW END SECTION



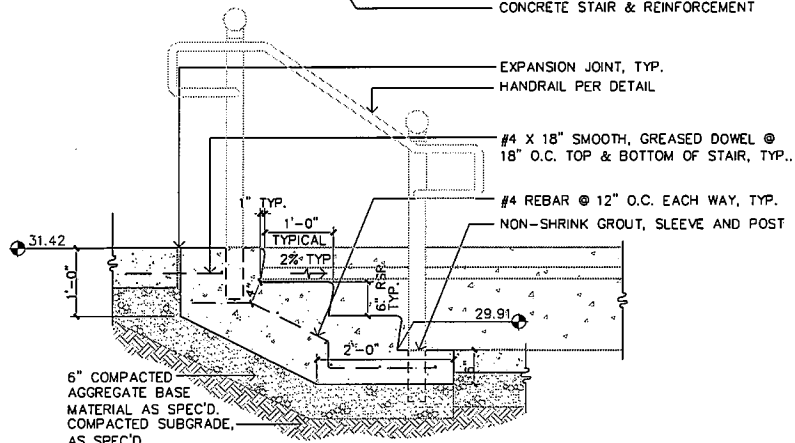
RAILING SECTION

- NOTE:
- ALL PARTS OF HAND RAIL SYSTEM ARE TO BE POWDERCOATED BLACK
  - WELD CAP, BRACKET PAD & GRIND SMOOTH PRIOR TO POWDER COATING

1 SECTION: TYPICAL HAND RAIL SECTIONS  
DTL-3 SCALE: 1" = 1'-0"

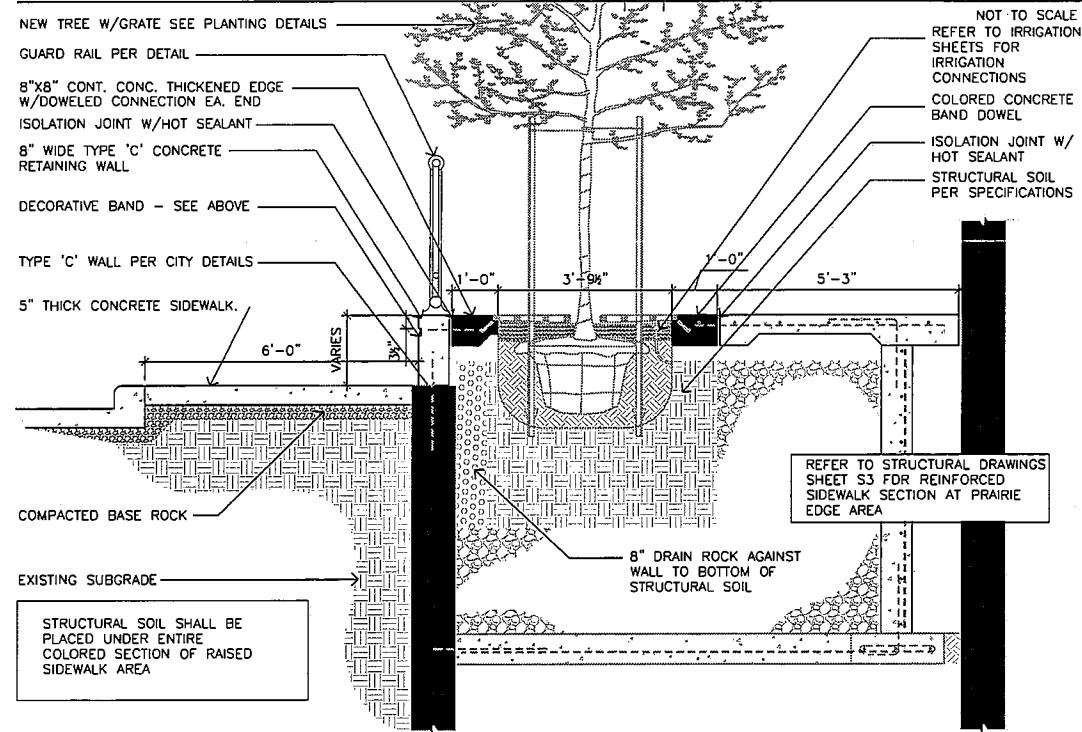


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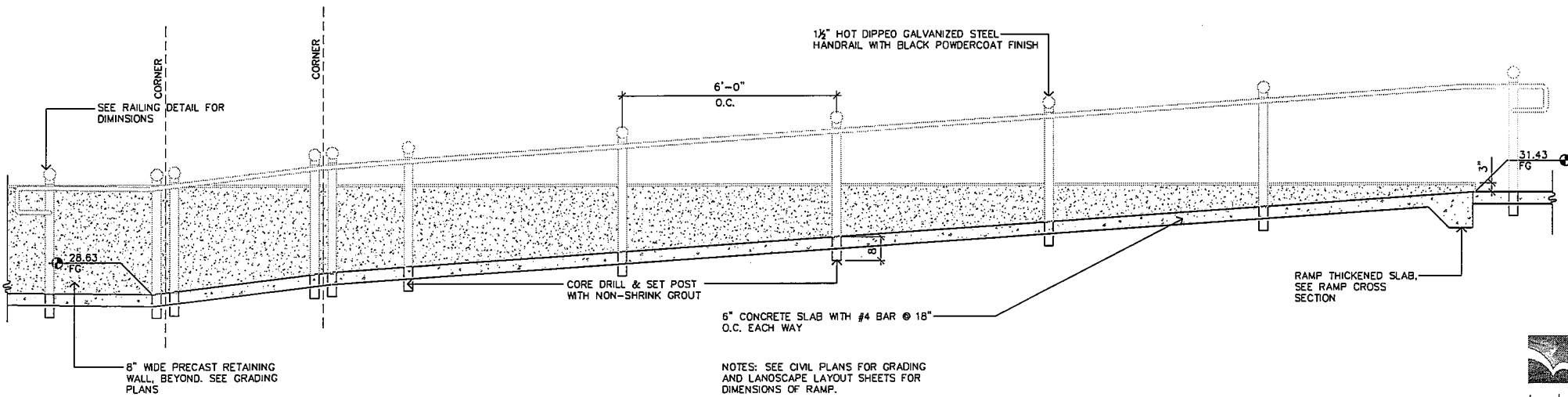


2 SECTION: TYPICAL CONCRETE STAIR ALONG RAISED SIDEWALK  
DTL-3 SCALE: 3/4" = 1'-0"

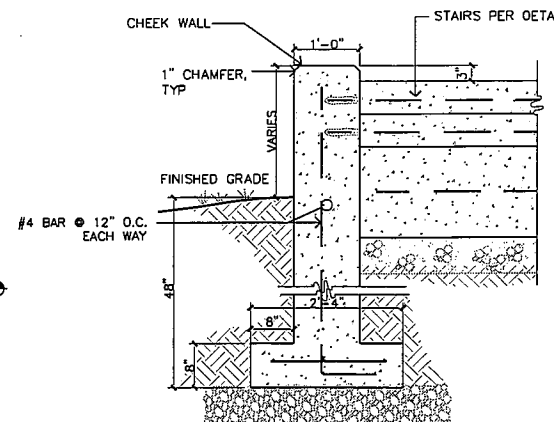
ELEVATION: DECORATIVE BAND DETAIL



3 SECTION: TYPE C WALL AND PLANTER AT RAISED SIDEWALK  
DTL-3 SCALE: 1/2" = 1'-0"



4 SECTION: ADA RAMP LONGITUDINAL SECTION at PRAIRIE EDGE  
DTL-3 SCALE: 1/2" = 1'-0"



5 SECTION: CHEEKWALL AT PRAIRIE EDGE  
DTL-3 SCALE: 3/4" = 1'-0"



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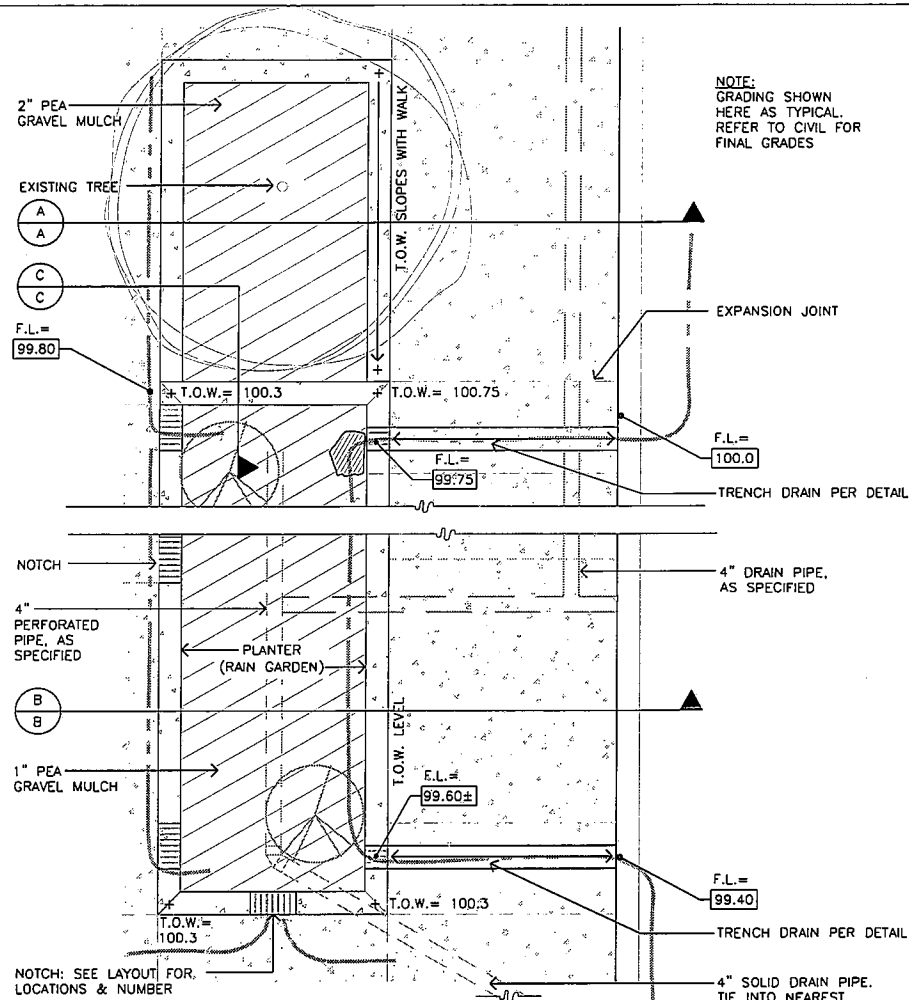
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DOWNTOWN STREET RECONSTRUCTION  
SIXTH STREET  
OMAHA STREET TO KANSAS CITY STREET

CITY PROJECT #  
ST10-1817  
Sheet Title:  
6TH ST. - KC TO ST JC  
SITE DETAILS

Sheet:  
DTL-3



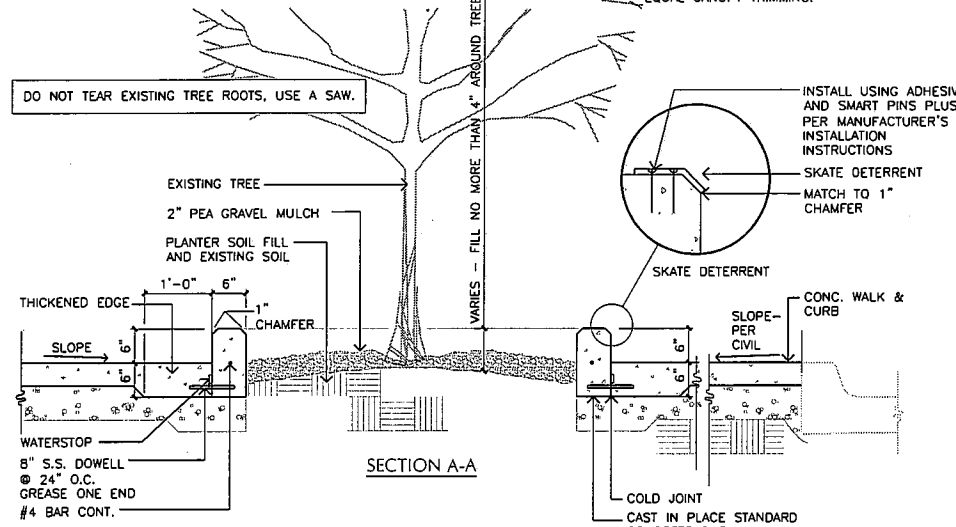
1 PLAN: RAIN GARDEN PLANTER  
SCALE: 1/2" = 1'-0"

NOTES:  
1. WATERSTOP TO BE HYDROTITE GREENSTREAK CJ-0725-3K-ADH (OR APPROVED EQUAL) CONTINUOUSLY APPLIED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH LEAKMASTER LV-1 WATER-SWELLING SEALANT AT ALL JOINTS, BENDS AND SPLICES. GREENSTREAK, 3400 TREE COURT INDUSTRIAL BLVD., ST. LOUIS, MO 63122-6614, 1-800-325-9504, HTTP://WWW.GREENSTREAK.COM/

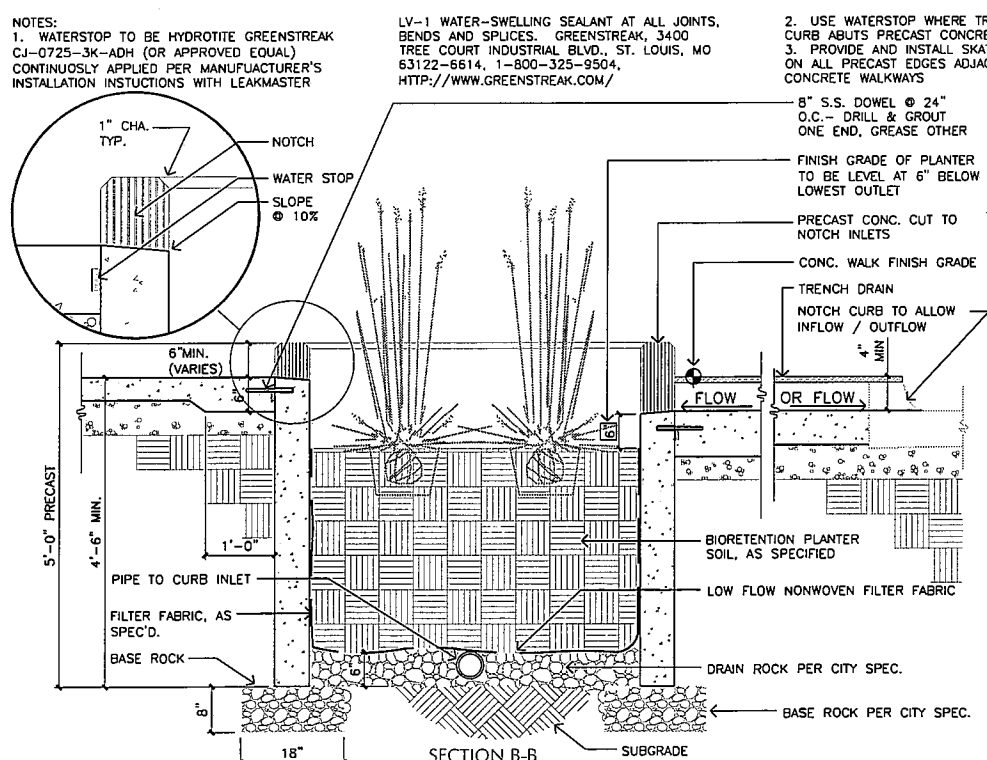
1-800-325-9504,  
HTTP://WWW.GREENSTREAK.COM/  
2. USE WATERSTOP WHERE TREE PLANTER CURB ABUTS PRECAST CONCRETE

RANGING FROM 28" TO 42" SKATESTOPPERS, 1547 N CUYAMACA ST, CA 92020 USA, 619-447-6374, HTTP://SKATESTOPPERS.COM

PLANTING SOILS:  
1. PLANTING SOIL SHRUB AND PERENNIAL BED MIX: ASTM D 5268 TOPSOIL, WITH PH RANGE OF 5.5 TO 7, A MINIMUM OF 4 PERCENT ORGANIC MATERIAL CONTENT; FREE OF STONES 1 INCH OR LARGER IN ANY DIMENSION AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH. MIX ASTM D 5268 TOPSOIL WITH THE FOLLOWING SOIL AMENDMENTS AND FERTILIZERS IN THE FOLLOWING QUANTITIES TO PRODUCE PLANTING SOIL:  
1.1. RATIO OF LOOSE COMPOST TO TOPSOIL BY VOLUME: 1:2;  
1.2. MANURE: ADD 1 CUBIC FOOT PER 20 SF SURFACE AREA;  
1.3. WEIGHT OF COMMERCIAL FERTILIZER PER 1000 SQ. FT.: 5/6  
1.4. WEIGHT OF SLOW-RELEASE FERTILIZER PER 1000 SQ. FT.: 5/6.  
2. BIORETENTION SOIL  
2.1. PREPARE BOTTOM OF BIORETENTION AREA TO DRAIN FREELY PRIOR TO INSTALLATION.  
2.2. PREPARE PRECAST WALLS, DRAINAGE PIPING, OUTFALLS, DRAIN PIPING, GEOTEXTILE BARRIER, IRRIGATION AND OTHER ITEMS WHICH WILL BE AFFECTED BY THESE AREAS PRIOR TO INSTALLATION.  
2.2.1. KEEP MATERIALS SEPARATE AND CLEAN.  
2.3. COMPOSITION: 66.6% DETENTION SAND, 33.3% COMPOST.  
2.3.1. DEPTH OF SOIL: 18" MIN, 42" MAX.  
2.3.2. MIX ON SITE AS INSTALLED.  
2.3.3. INSTALL WITH MINIMUM COMPACTION PROVIDED BY WALKING OVER AREA, WATER IN.  
3. BASIS OF PAYMENT  
3.1. ALL PLANTING SOILS (INCLUDING STRUCTURAL SOILS DESCRIBED SEPARATELY) WILL BE PAID AT THE CONTRACT UNIT PRICE PER CUBIC YARD IN INCLUDING EXCAVATIONS, FILTER FABRIC AND PREPARATIONS.  
3.2. PAYMENT OF THIS ITEM WILL ALSO BE FULL COMPENSATION FOR LABOR, EQUIPMENT, TOOLS, BACKFILLING, FURNISHING, PREPARING, TESTING AND PLACING MATERIALS AND INCIDENTALS NECESSARY, INCLUDING DISPOSAL OF EXCAVATION AND DISCARDED MATERIALS. PAYMENT INCLUDES DRAIN ROCK BUT EXCLUDES DRAIN PIPING.

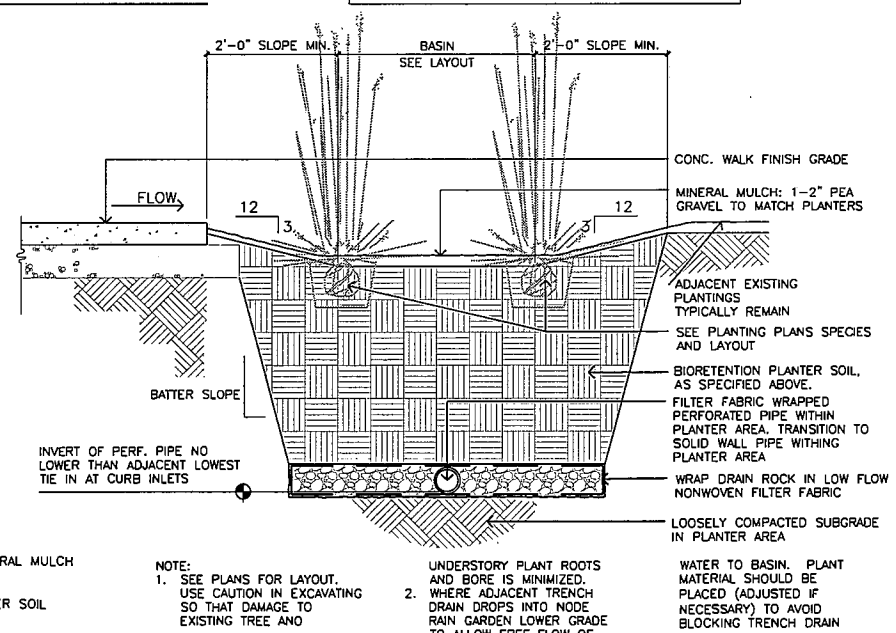


2 SECTION: EXISTING TREE AT RAIN GARDEN PLANTERS  
SCALE: 3/4" = 1'-0"



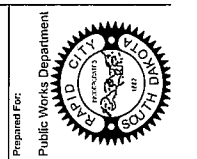
3 SECTION: RAIN GARDEN PLANTER  
SCALE: 3/4" = 1'-0"

4 SECTION: EXISTING TREE ROOT CLEARANCE  
SCALE: 3/4" = 1'-0"



5 SECTION: RAIN GARDEN AT NODES  
SCALE: 3/4" = 1'-0"

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Revisions:	

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SIXTH STREET  
OMAHA STREET TO KANSAS CITY STREET

CITY PROJECT #  
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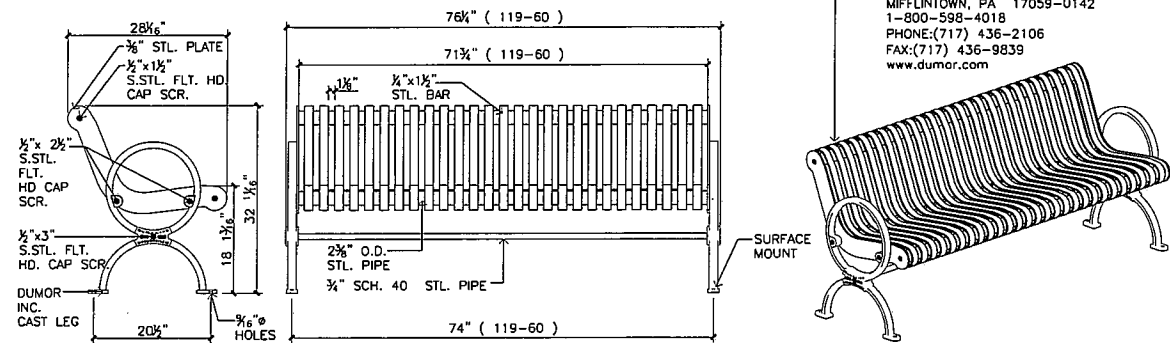
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6TH ST. - KC TO ST JC

SITE DETAILS

Sheet:  
DTL-4

**NOTES:**

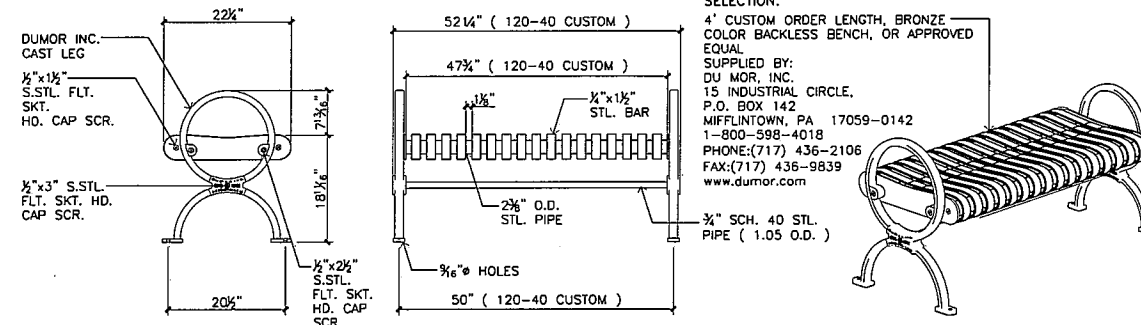
1. SURFACE MOUNT INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. ALL STEEL MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER COATING (COLOR BRONZE).
4. 1/2"x3/4" PLTD. EXPANSION ANCHOR BOLTS PROVIDED.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) REFERENCE NUMBER 017-039.



**1** 6' LONG ALL-METAL BENCH W/ BACKREST AND CAST IRON SUPPORTS  
DTL-5 SCALE: 3/4" = 1'-0"

**NOTES:**

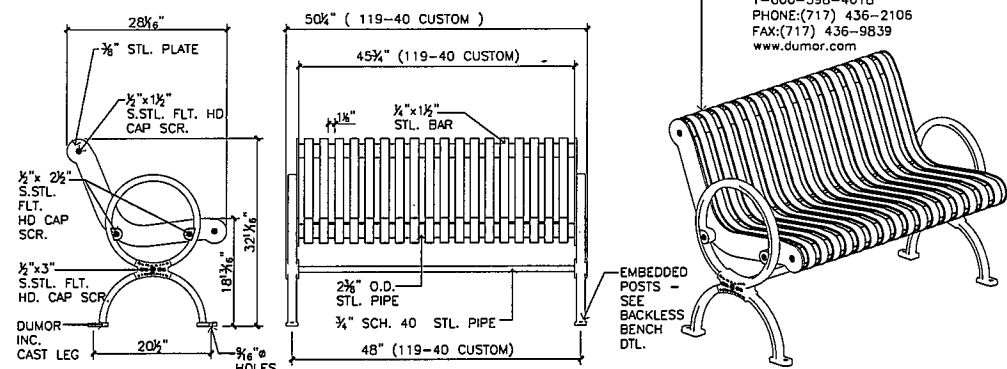
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER COATING (SEE COLOR OPTIONS).
4. 1/2"x3/4" PLTD. EXPANSION ANCHOR BOLTS PROVIDED.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) REFERENCE NUMBER 017-055



**2** 4' LONG BACKLESS METAL BENCH W/ CAST IRON SUPPORTS  
DTL-5 SCALE: 3/4" = 1'-0"

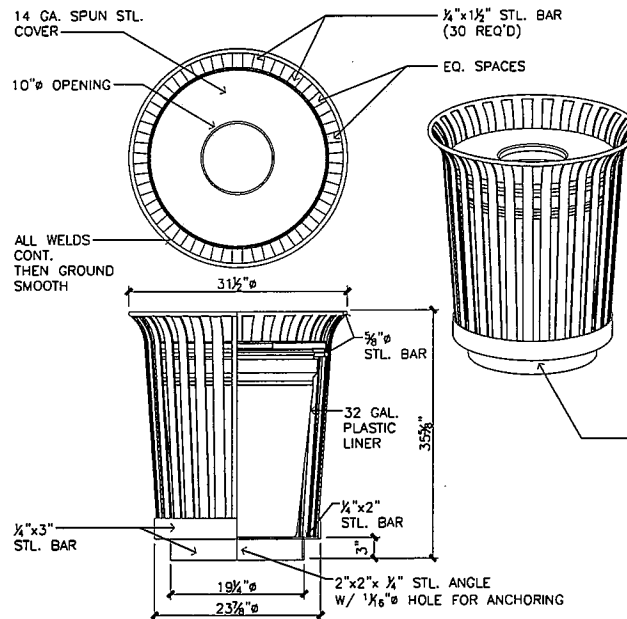
**NOTES:**

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2. DO NOT SCALE DRAWINGS.
3. ALL STEEL MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER COATING (COLOR BRONZE).
4. 1/2"x3/4" PLTD. EXPANSION ANCHOR BOLTS PROVIDED.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) CUSTOM ORDER ITEM



**3** 4' LONG ALL-METAL BENCH W/ BACKREST AND CAST IRON SUPPORTS  
DTL-5 SCALE: 3/4" = 1'-0"

**NOTE:**  
ALL RECEPTACLES TO BE VARIED, MULTIPLE COLORS. SUBMIT SAMPLES TO LANDSCAPE ARCHITECT FOR COLOR SELECTION.



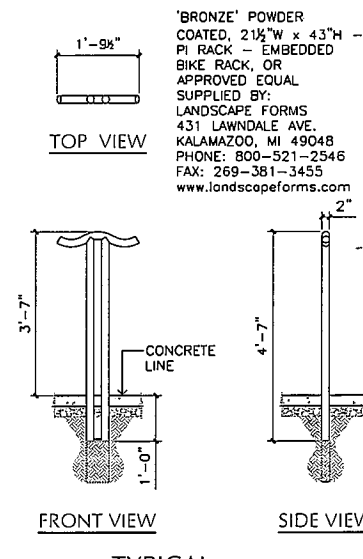
**4** TYPICAL RECEPTACLE  
DTL-5 SCALE: 3/8" = 1'-0"

**NOTES:**

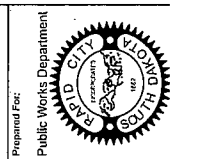
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER COATING (COLOR BRONZE).
3. 1/2"x3/4" PLTD. EXPANSION ANCHOR BOLTS PROVIDED.
- 32 GAL. PLASTIC LINER.
5. ALL WELDS CONTINUOUS THEN GROUNDED SMOOTH.
- CONTRACTOR'S NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) REFERENCE NUMBER 017-075B

**NOTE:**

- ALL BIKE RACKS TO BE VARIED, MULTIPLE COLORS. SUBMIT SAMPLES TO LANDSCAPE ARCHITECT FOR COLOR SELECTION.



**5** TYPICAL EMBEDDED BIKE RACK  
DTL-5 SCALE: 1/2" = 1'-0"



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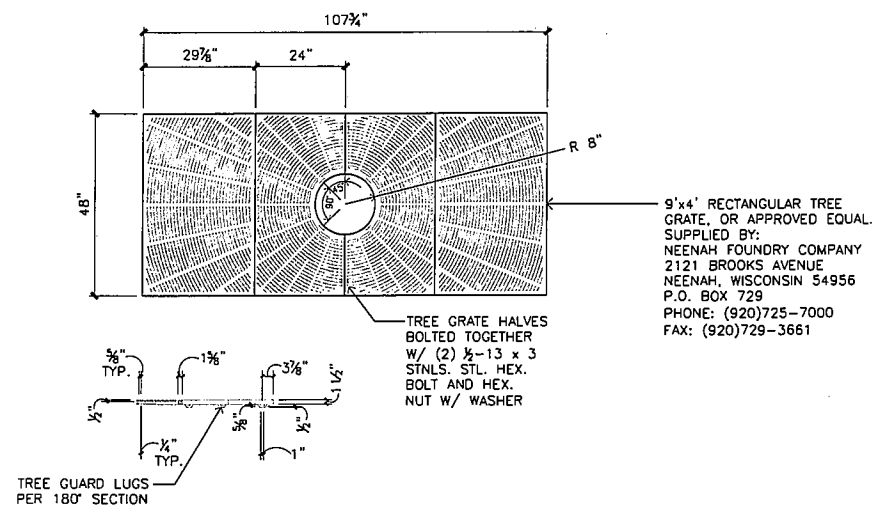


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DOWNTOWN STREET RECONSTRUCTION  
SIXTH STREET  
OMAHA STREET TO KANSAS CITY STREET

CITY PROJECT #	ST10-1817
Sheet Title:	6TH ST. - KC TO ST JC
	SITE DETAILS
Sheet:	DTL-5

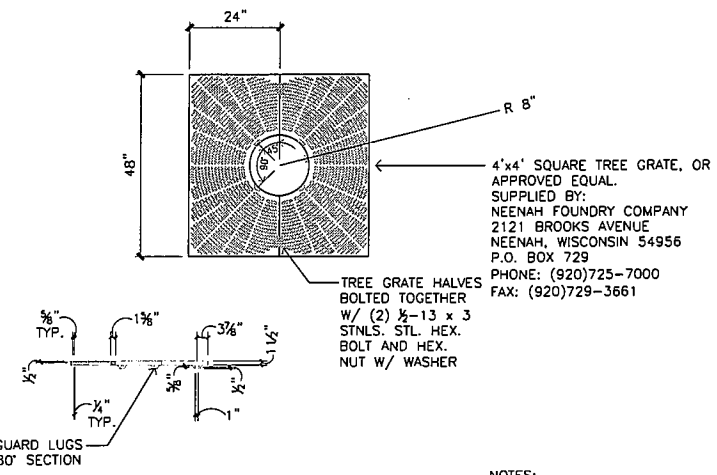


9'x4' RECTANGULAR TREE GRATE, OR APPROVED EQUAL. SUPPLIED BY: NEENAH FOUNDRY COMPANY 2121 BROOKS AVENUE NEENAH, WISCONSIN 54956 P.O. BOX 729 PHONE: (920)725-7000 FAX: (920)729-3661

COMPONENT NO'S: (2) TREE GRATE 8708-0017 (2) END SECTION 8708-0016 MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B FINISH: NO PAINT WEIGHT: 624#/SET

- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  2. CONTRACTORS NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info)
  3. REFERENCE NUMBER 071-003A.

1 R-8813 RECTANGULAR TREE GRATE 108" x 48" DTL-6 SCALE: 3/8" = 1'-0" FURNITUR\Tree Grates\Neenah R-8813.dwg

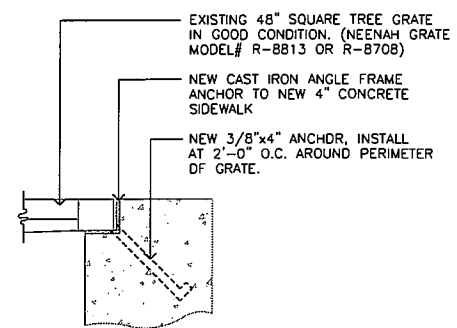


4'x4' SQUARE TREE GRATE, OR APPROVED EQUAL. SUPPLIED BY: NEENAH FOUNDRY COMPANY 2121 BROOKS AVENUE NEENAH, WISCONSIN 54956 P.O. BOX 729 PHONE: (920)725-7000 FAX: (920)729-3661

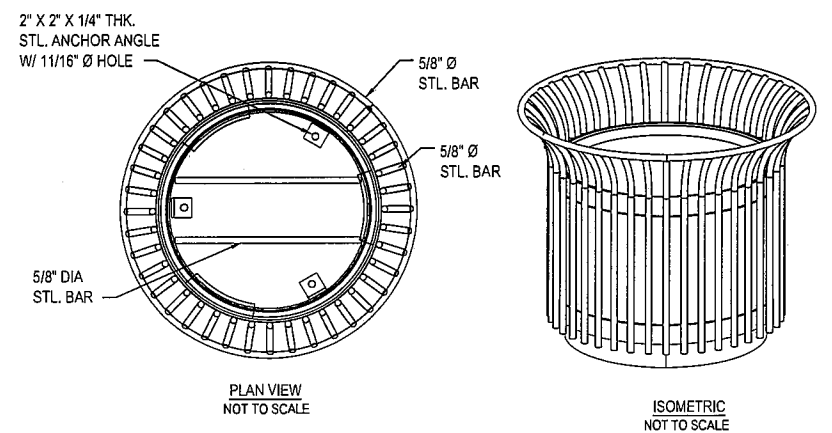
COMPONENT NO'S: (2) TREE GRATE 8708-0017 MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B FINISH: NO PAINT WEIGHT: 624#/SET

- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  2. CONTRACTORS NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info)
  3. REFERENCE NUMBER 071-003A.

2 R-8708 SQUARE TREE GRATE 48" x 48" DTL-6 SCALE: 3/8" = 1'-0" FURNITUR\Tree Grates\Neenah R-8708.dwg

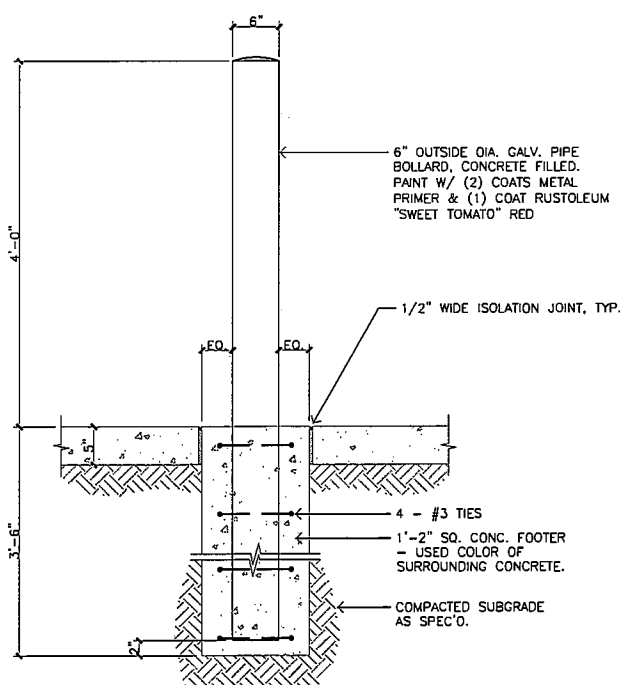


3 DETAIL: TREE GRATE FRAME AND ANCHOR DTL-6 SCALE: 3" = 1'-0" R:\wyss\Standards\Details\TREE\TREE\grate-anchors.dwg

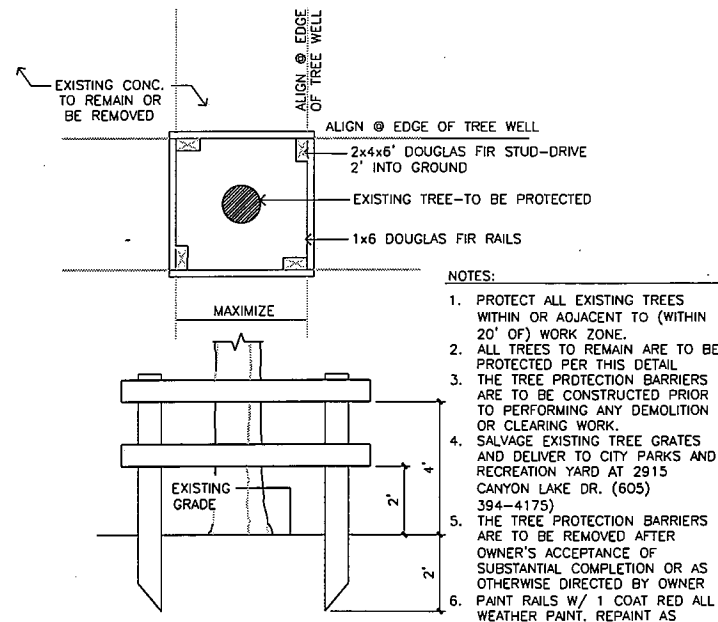


- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  2. DO NOT SCALE DRAWINGS.
  3. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
  4. 1/2" x 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.
  5. ALL WELDS CONT. THEN GROUND SMOOTH.
  6. CONTRACTOR'S NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) REFERENCE NUMBER 017-238.
  7. FILL WITH 3" DRAIN ROCK, A CIRCLE OF FILTER FABRIC AND PLANTER SOIL

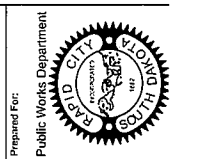
4 DUMOR PLANTING URN DTL-6 SCALE: 3/4" = 1'-0" R:\wyss\Standards\Details\FURNITUR\PLANTERS\Dumor 1866\PLANTER.dwg



5 SECTION: TYPICAL PIPE BOLLARD DTL-6 SCALE: 1" = 1'-0"



6 DETAIL: STREET TREE PROTECTION DTL-6 SCALE: 1" = 1'-0"



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ARCHITECTURE ENGINEERING  
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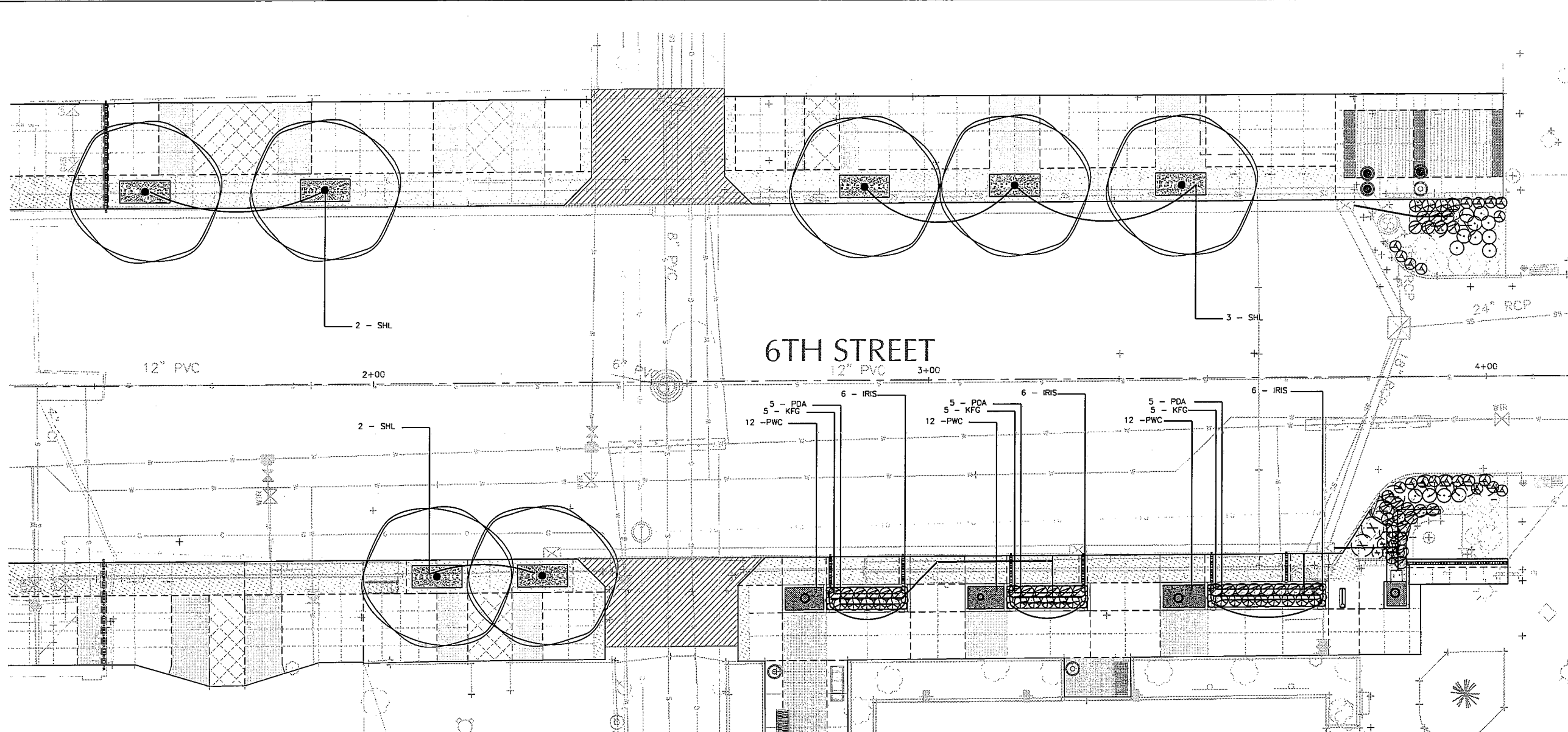


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Revisions:	

DOWNTOWN STREET RECONSTRUCTION  
SIXTH STREET  
OMAHA STREET TO KANSAS CITY STREET

CITY PROJECT #  
ST10-1817  
Sheet Title:  
6TH ST. - KC TO ST JC  
SITE DETAILS  
Sheet:  
DTL-6



PLANT LIST

ALT. QTY	QTY	SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	COMMENTS
DECIDUOUS TREES						
	5	NTA	NORTHERN TREASURE ASH	FRAXINUS 'NORTHERN TREASURE'	2" CAL.	SPACE PER PLANS
	7	SHL	SKYLINE HONEYLOCUST	GLEDITSIA TRIACANTHOS 'SKYLINE'	2" CAL.	SPACE PER PLANS
	7	BL	BOULEVARD LINDEN	TILIA AMERICANA 'BOULEVARD'	2" CAL.	SPACE PER PLANS
PERENNIALS						
	98	PDA	PURPLE DOME ASTER	ASTERNOVAE-ANGLIAE 'PURPLE DOME'	#1 CONTAINER	2.5' O.C.
-36	228	KFG	KARL FOERSTER GRASS	CALAMAGROSTIS ACUTIFOLIA 'KARL FOERSTER'	#1 CONTAINER	2' O.C.
-31	263	HFG	HAMLIN FOUNTAIN GRASS	PENNISETUM ALOPECUROIDES 'HAMLIN'	#1 CONTAINER	2' O.C.
	41	BOG	BLUE OAT GRASS	HELICTOTRICHON SEMPERVIRENS	#2 CONTAINER	1.5' O.C.
-3	187	SDL	STELLA D' ORO DAYLILY	HEMEROCALLIS 'STELLA D' ORO'	#1 CONTAINER	1.5' O.C.
	18	IRIS	BLUE FLAG IRIS	IRIS VERSICOLOR	#1 CONTAINER	1.5' O.C.
	51	PWC	PURPLE WINTER CREEPER	EUONYMUS FORTUNEI	#1 CONTAINER	1.5' O.C.
	143	RB	BLACK EYED SUSAN	RUDBECKIA HIRTA	#1 CONTAINER	1.5' O.C.
	4	RS	RUSSIAN SAGE	PERVSKIA ATRIPLICIFOLIA	#1 CONTAINER	1.5' O.C.

PLANTING URN PLANT LIST

ALL URN SHALL BE FILLED WITH THE FOLLOWING SPECIFIED PLANTS.

URN TYPE 1:  
BLAZING STAR: (LIATRIA PACHYSTACHYA)  
GOLDSTURM RUDBECKIA (RUDBECKIA FULGIDA 'GOLDSTURM')  
PURPLE POPPY MALLOW: (CALLIRHOE INVOLUCRATA)

URN TYPE 2:  
BLUE LITTLE BLUE STEM (SCHIZACHYRUM SCOPANUM)  
MAGNUS PURPLE CONEFLOWER (ECHINACEA PURPUREA MAGNUS)  
LOGAN CALHOUN POPPY MALLOW (CALLIRHOE ALCAEODIS 'LOGAN CALHOUN')

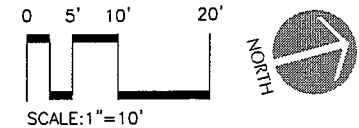
URN TYPE 3:  
RED MEXICAN HAT (RATIBIDA COLUMNIFERADO 'RED')  
CERISE QUEEN YARROW (ARCHILLEA MILLEFOLIUM)  
CREME BRULEE COREOPSIS (COREOPSIS VERTICILLATA 'CREME BRULEE')

GENERAL PLANTING NOTES

- CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED UTILITIES AT NO COST TO OWNER.
- ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN OR EQUIVALENT.
- ALL TREE AND SHRUB LOCATIONS SHALL BE STAKED BY CONTRACTOR AND APPROVED BY PROJECT LANDSCAPE ARCHITECT.
- ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
- ALL PLANTS AND STAKES SHALL BE SET PLUMB UNLESS OTHERWISE SPECIFIED.
- ALL PLANTS SHALL BE INSTALLED IN ACCORDANCE WITH ALL DRAWINGS AND SPECIFICATIONS.
- ALL SHRUB BEDS ARE TO RECEIVE PEA GRAVEL MULCH, TO A 4" MINIMUM DEPTH. PERENNIAL AREAS SHALL RECEIVE 2" MIN. DEPTH.
- ALL PLANTING BEDS SHALL BE STAKED BY CONTRACTOR AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO BED PREPARATION.
- CONTRACTOR SHALL PROVIDE SOIL FILL AS SPECIFIED FOR ALL PLANTING AREAS AND PITS.
- PLANTING SEASONS SHALL BE FROM APRIL 15 TO JUNE 15 AND FROM SEPTEMBER 15 TO NOVEMBER 1, UNLESS OTHERWISE INDICATED.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING HEALTH OF ALL PLANT MATERIAL INCLUDING TREES, SHRUBS, PERENNIALS, TURF GRASSES, AND NATIVE GRASSES UNTIL FINAL ACCEPTANCE OF PROJECT.
- ALL PLANTS SHALL BE SPRAYED WITH AN ANTIDESSICANT WITHIN 24 HOURS OF PLANTING, AND AT THE BEGINNING OF THEIR FIRST WINTER.
- THE CONTRACTOR SHALL REFER TO THE CONTRACT SPECIFICATIONS AND PLANTING DETAILS FOR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE A ONE (1) YEAR WARRANTY FOR ALL PLANT MATERIAL UNLESS OTHERWISE INDICATED IN SPECIFICATIONS.

BID ALTERNATE NOTES

- IF BID ALTERNATE IS CHOSEN A PLANT MATERIAL DEDUCTION WILL BE ISSUED. DEDUCTION QUANTITY IS CALLED OUT IN THE ALT. QTY COLUMN IN THE PLANTING SCHEDULE.
- ALL EXISTING PLANT MATERIAL WITHIN THE ALTERNATE BID AREA SHALL BE REMOVED, SALVAGED, AND REPLANTED WITHIN THE DOWNTOWN AREA. REPLANTING LOCATIONS SHALL BE FLAGGED BY THE LANDSCAPE ARCHITECT DURING CONSTRUCTION.

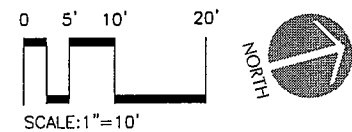
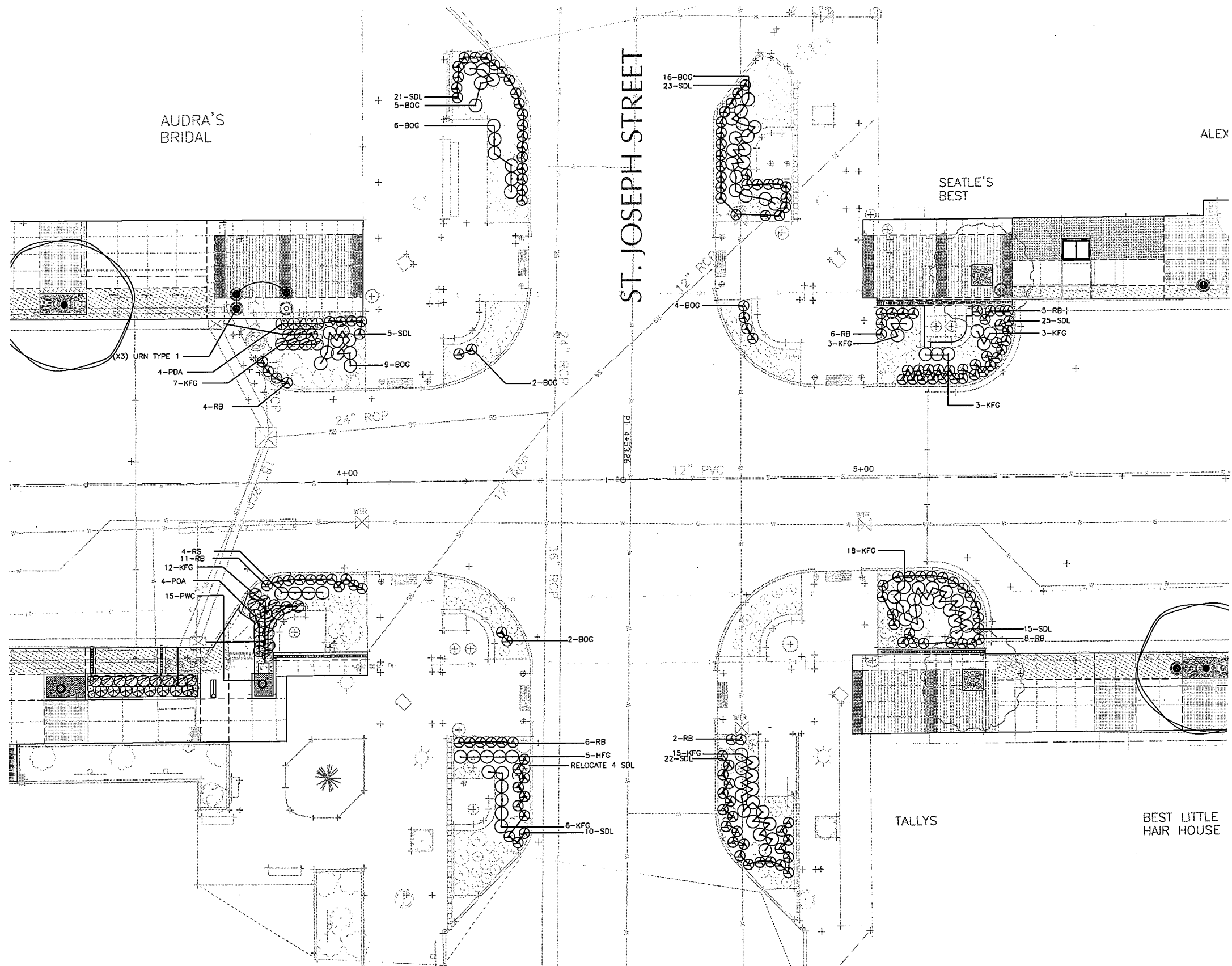


EXISTING UTILITIES LOCATIONS:  
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNERS OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONTACT THE SOUTH DAKOTA ONE CALL NOTIFICATION CENTER 2025 CENTRE POINTE BOULEVARD #310 MENDOTA HEIGHTS, MN 55120 1-800-781-7474





Wyss Associates, Inc.  
Landscape Architecture - Golf Course Architecture - Parks & Recreation Design  
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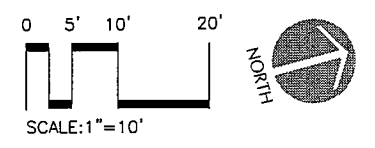
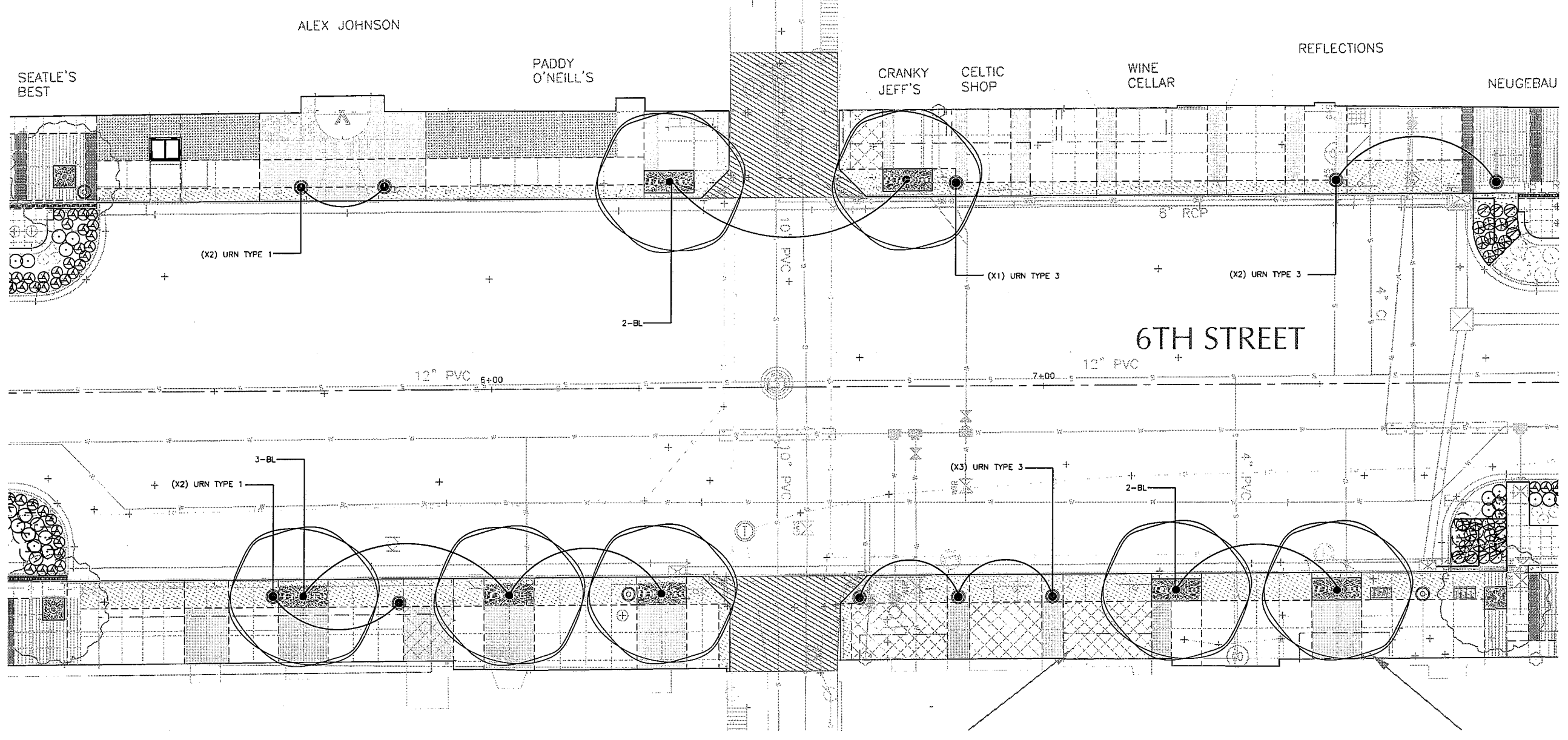
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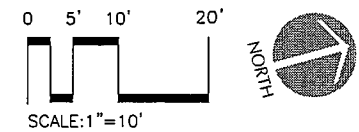
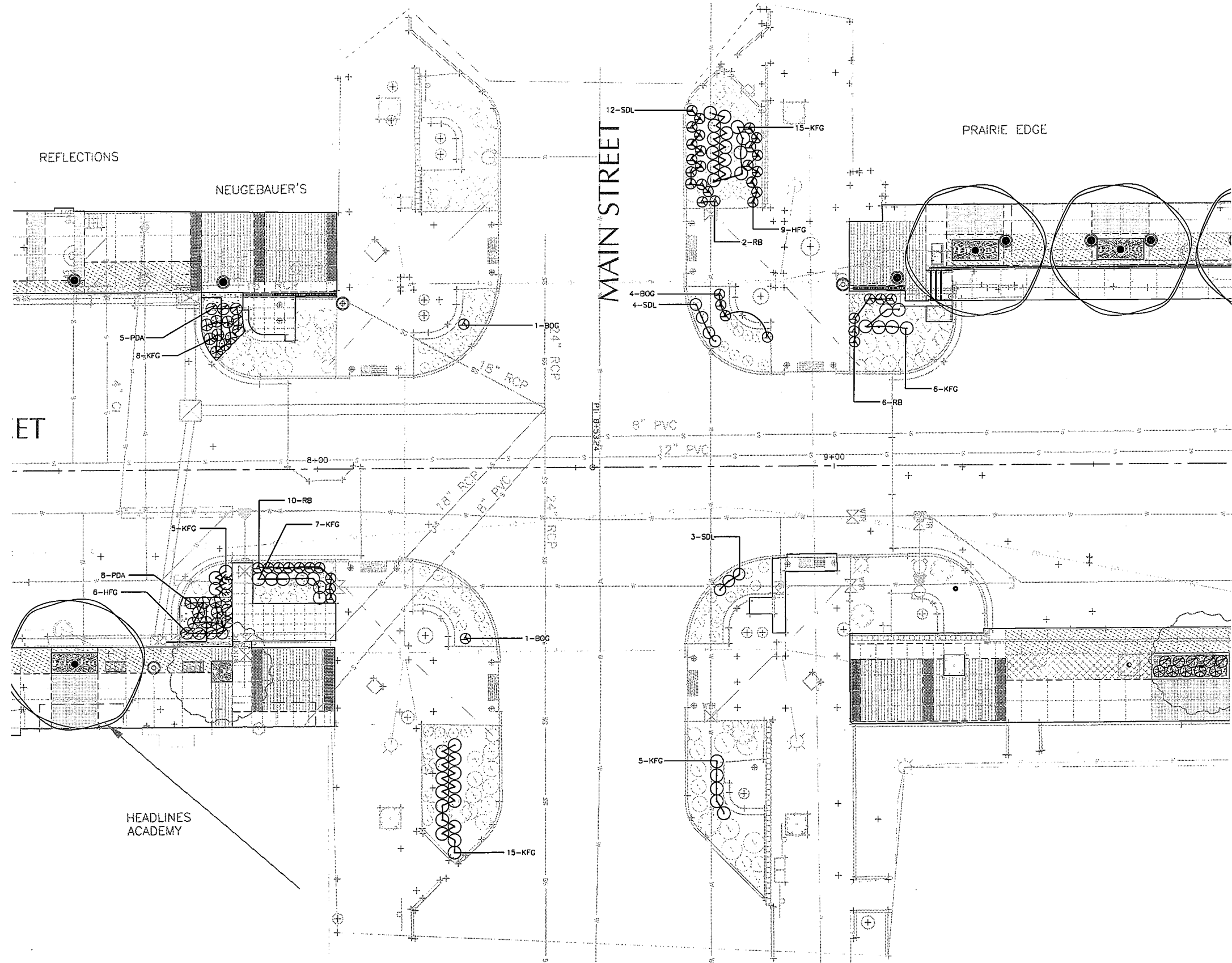
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**DOWNTOWN STREET RECONSTRUCTION**  
**SIXTH STREET**  
**OMAHA STREET TO KANSAS CITY STREET**  
 RAPID CITY, SOUTH DAKOTA

CITY PROJECT #	ST10-1817
Sheet Title:	6TH ST.- KC TO ST JOE
	PLANTING PLAN STA 4+00 TO 5+50
Sheet:	<b>P-2</b>






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**DOWNTOWN STREET RECONSTRUCTION**  
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CITY PROJECT #  
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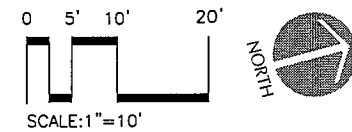
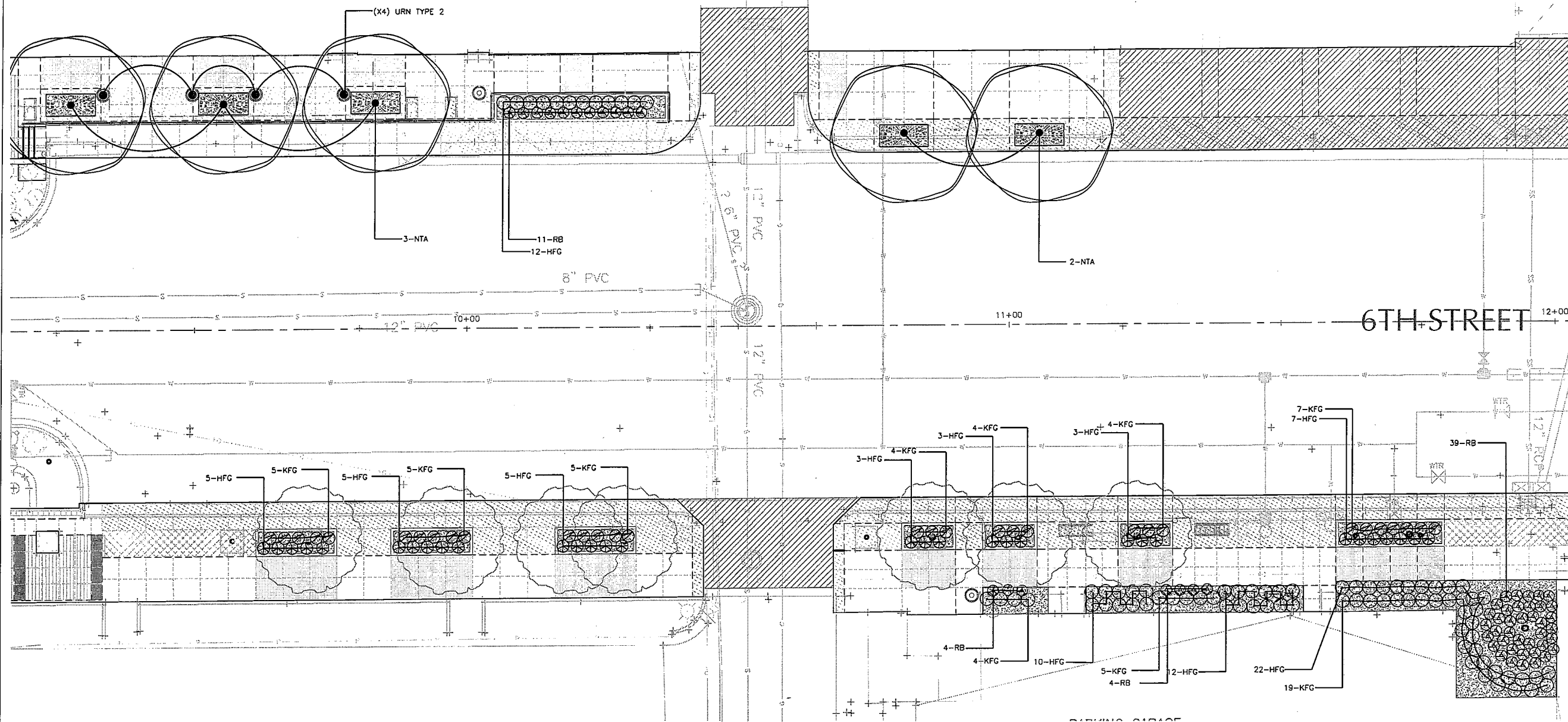
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PLANTING PLAN  
 STA 4+00 TO 5+50


Sheet:  
**P-2**

PRAIRIE EDGE

NORTHWESTERN WAREHOUSE




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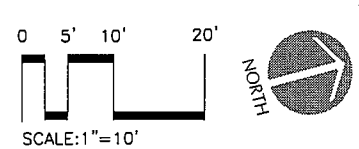
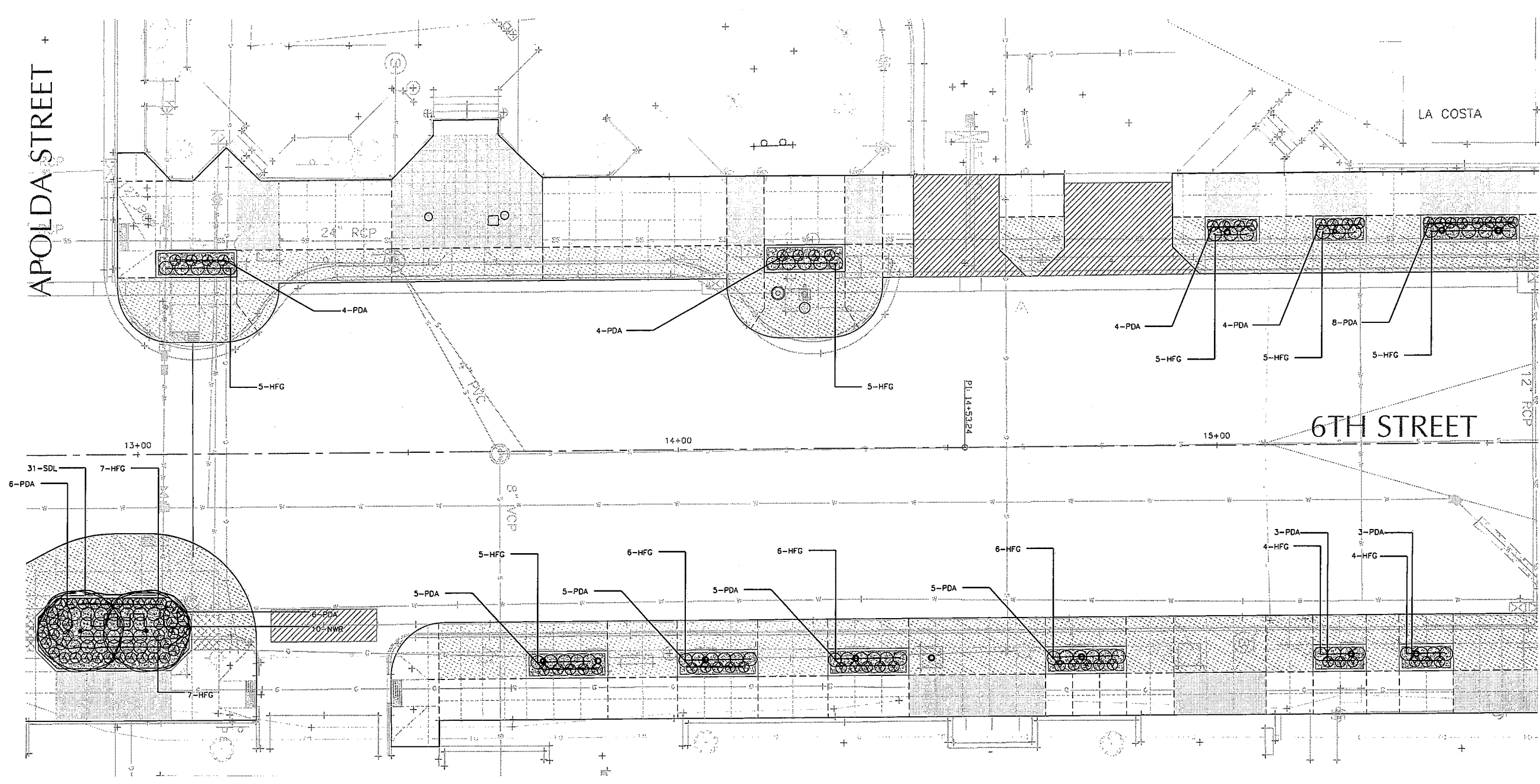
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**DOWNTOWN STREET RECONSTRUCTION**  
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CITY PROJECT #	ST10-1817
Sheet Title:	6TH ST.- KC TO ST JOE
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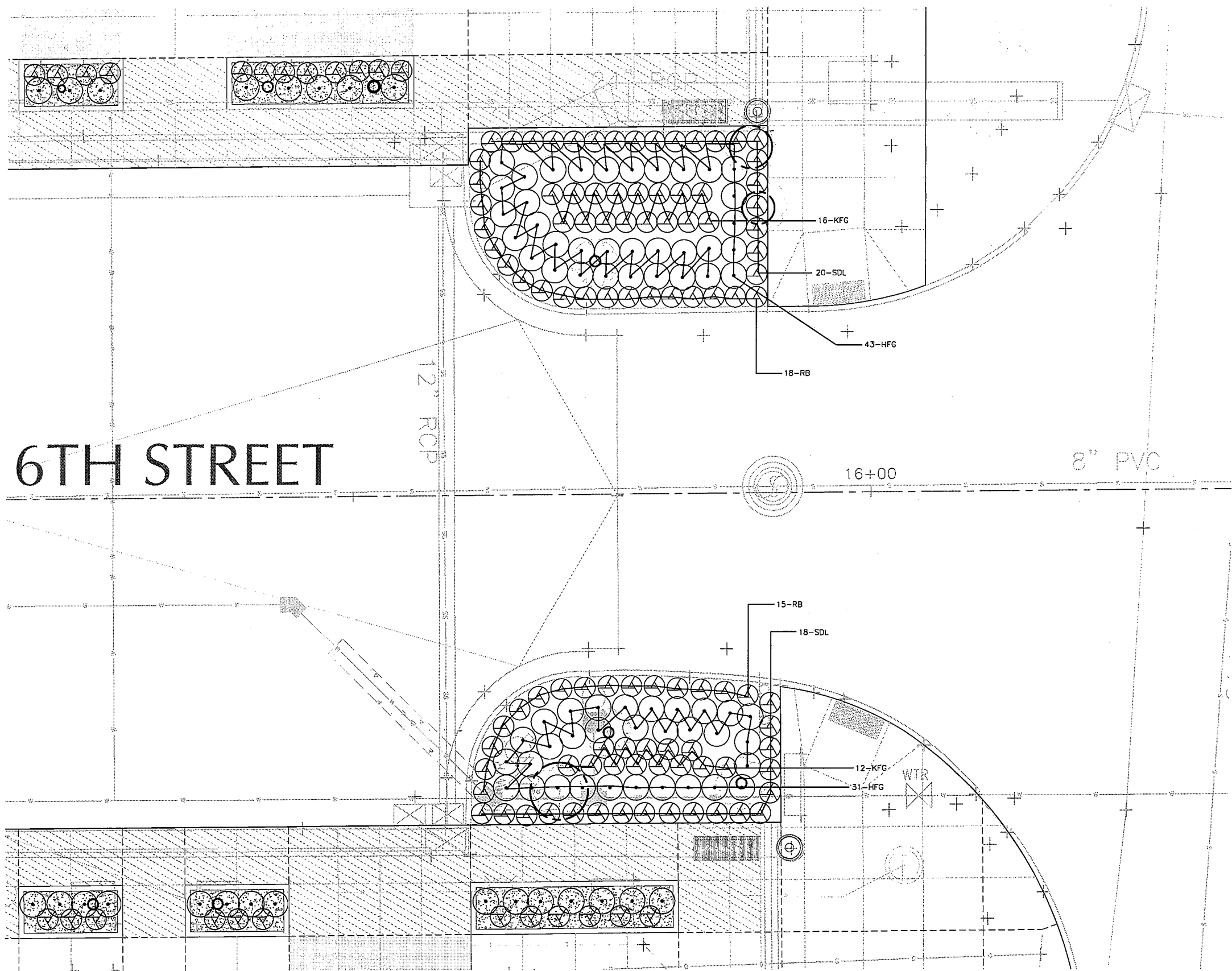


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**DOWNTOWN STREET RECONSTRUCTION**  
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CITY PROJECT #	ST10-1817
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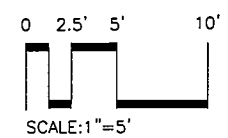


6TH STREET

12" RCP

16+00

8" PVC



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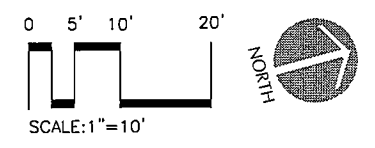
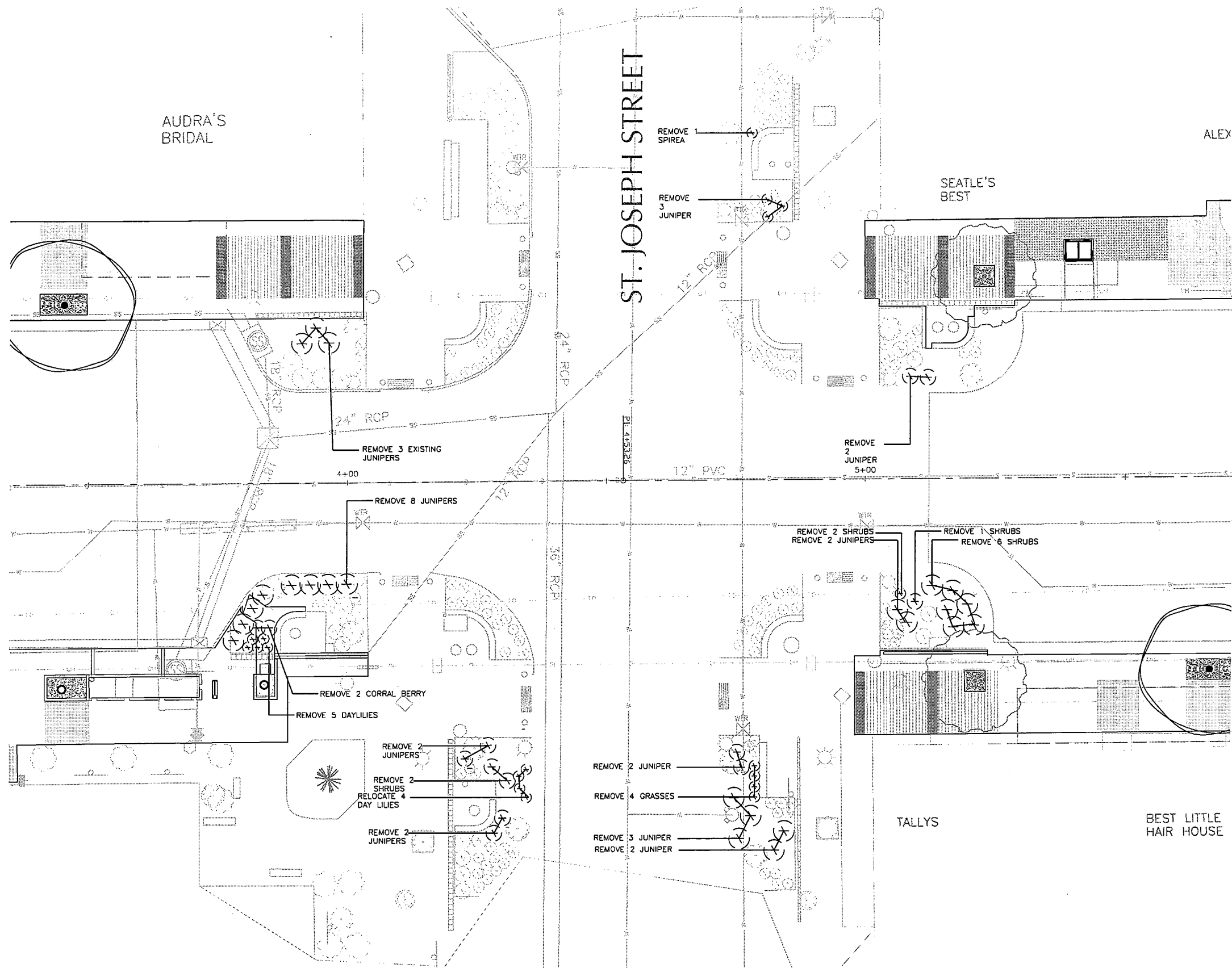


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Designed By: MF	Drawn By: MF/MJ/AW
Design Date: 12-23-09	Print Date: 7-02-10
Internal Job No: 08103	
Surveyed By:	Survey Date:
Revisions:	


**DOWNTOWN STREET RECONSTRUCTION**  
**SIXTH STREET**  
 OMAHA STREET TO KANSAS CITY STREET  
 RAPID CITY, SOUTH DAKOTA

CITY PROJECT#	ST10-1817
Sheet Title:	6TH ST.- KC TO ST JOE
	PLANTING PLAN STA 15+50 TO 16+00
Sheet:	<b>P-7</b>




**Wyss Associates, Inc.**  
 Landscape Architecture - Golf Course Architecture - Parks & Recreation Design  
 728 Sixth Street Rapid City, South Dakota 57701-3670 605.348.2268 Fax 605.348.6506  
 email: info@wyssassociates.com

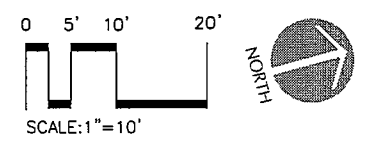
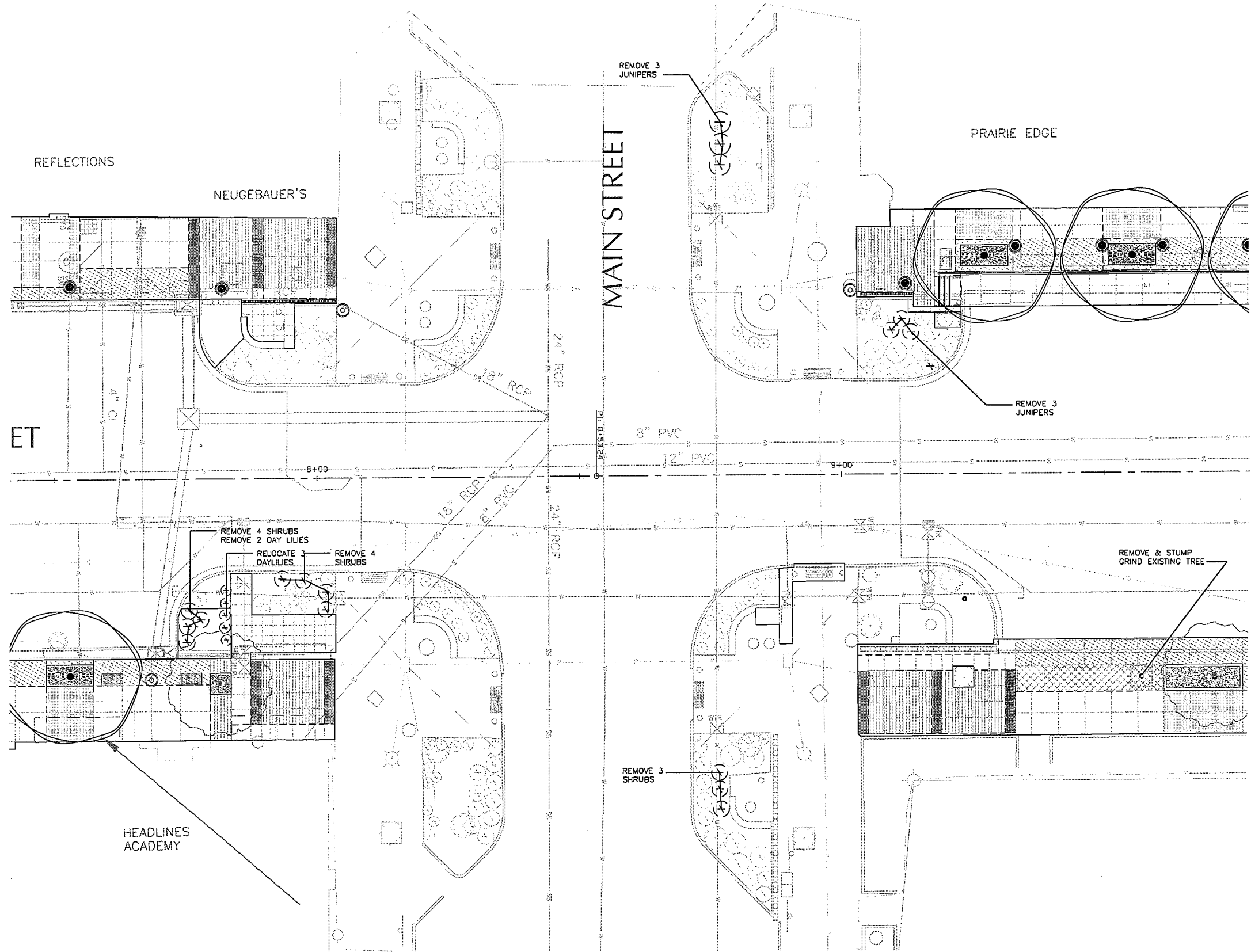
Prepared For:  
 Public Works Department  
  
 Engineering Services

Prepared By:  
  
 FRONT DESIGN INC.  
 ARCHITECTURE ENGINEERING GIS SURVEYING  
 517 7th street rapid city sd 57701  
 ph: 605.342.9470 fax: 605.342.2377  
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 Design Date: 12-23-09  
 Print Date: 7-02-10  
 Internal Job No: 08103  
 Surveyed By: \*  
 Survey Unit: \*  
 Revisions:

**DOWNTOWN STREET RECONSTRUCTION**  
**SIXTH STREET**  
**OMAHA STREET TO KANSAS CITY STREET**  
 RAPID CITY, SOUTH DAKOTA

CITY PROJECT #  
 ST10-1817  
 Sheet Title:  
 6TH ST.- KC TO ST JOE  
 PLANT REMOVAL  
 STA 3+50 TO 5+00  
 Sheet:  
**P-8**




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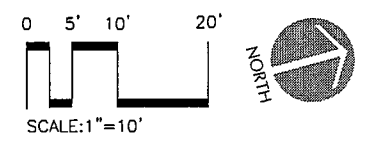
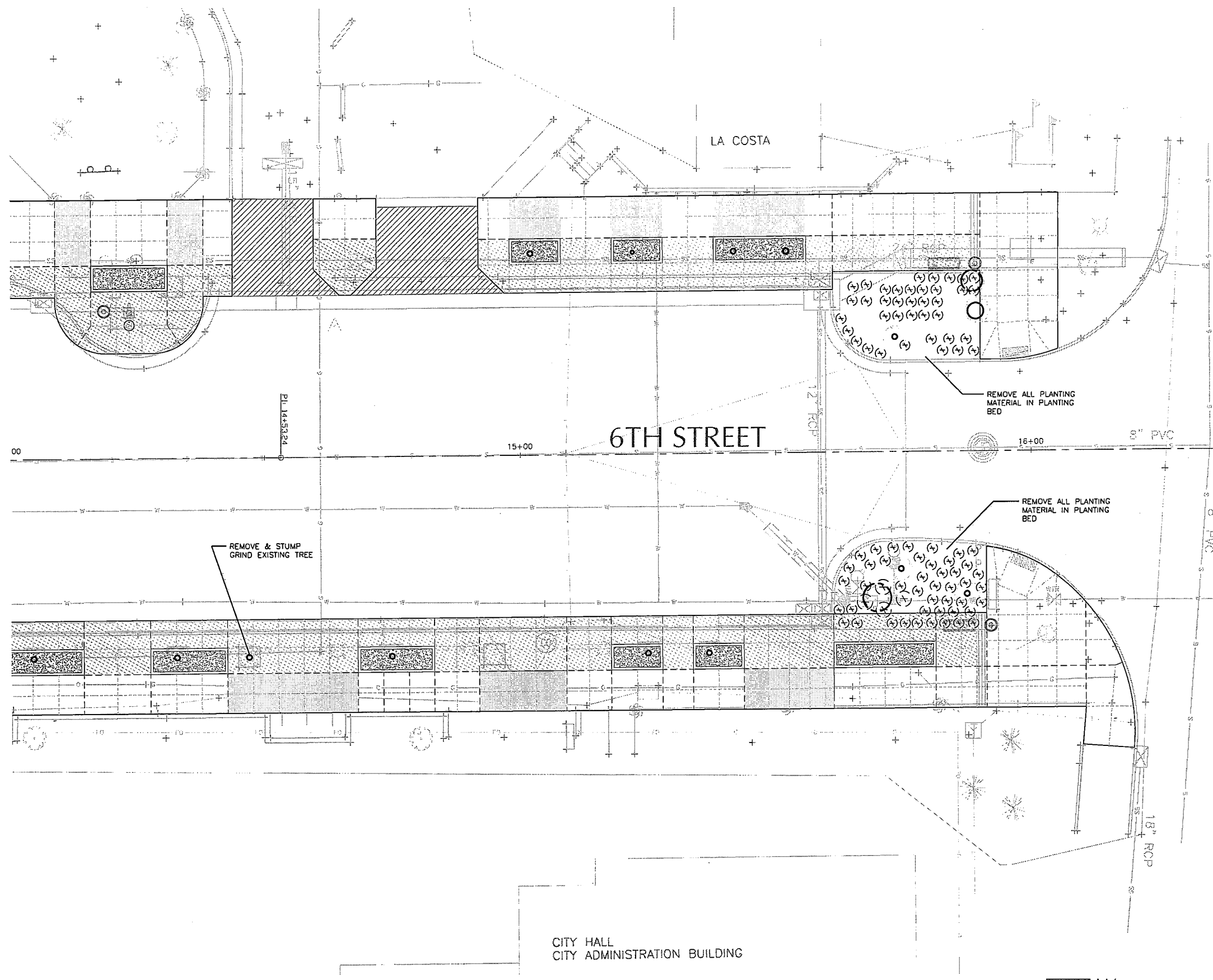
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**DOWNTOWN STREET RECONSTRUCTION**  
**SIXTH STREET**  
**OMAHA STREET TO KANSAS CITY STREET**  
 RAPID CITY, SOUTH DAKOTA

CITY PROJECT # ST10-1817
Sheet Title: 6TH ST.- KC TO ST JOE
PLANT REMOVAL STA 7+50 TO 9+00
Sheet: <b>P-9</b>





CITY HALL  
CITY ADMINISTRATION BUILDING

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SOUTH DAKOTA  
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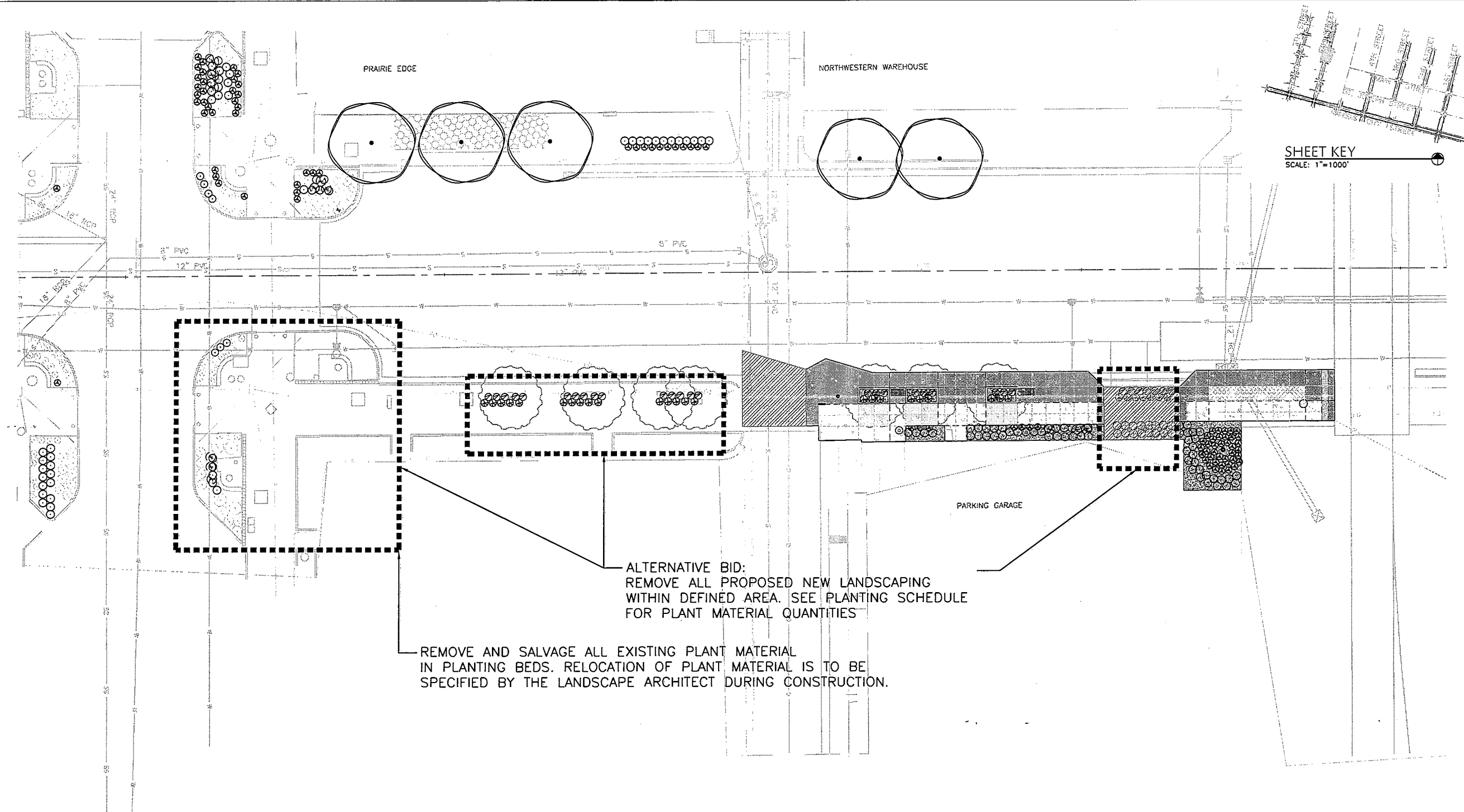
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Revisions:	

**DOWNTOWN STREET RECONSTRUCTION  
SIXTH STREET  
OMAHA STREET TO KANSAS CITY STREET**  
RAPID CITY, SOUTH DAKOTA

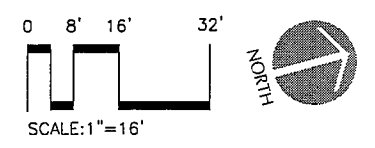
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Sheet Title: 6TH ST.- KC TO ST JOE
PLANT REMOVAL STA 14+50 TO 16+00
Sheet: <b>P-10</b>



**SHEET KEY**  
SCALE: 1"=1000'

ALTERNATIVE BID:  
REMOVE ALL PROPOSED NEW LANDSCAPING  
WITHIN DEFINED AREA. SEE PLANTING SCHEDULE  
FOR PLANT MATERIAL QUANTITIES

REMOVE AND SALVAGE ALL EXISTING PLANT MATERIAL  
IN PLANTING BEDS. RELOCATION OF PLANT MATERIAL IS TO BE  
SPECIFIED BY THE LANDSCAPE ARCHITECT DURING CONSTRUCTION.



Prepared For:  
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08103	
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Revisions:

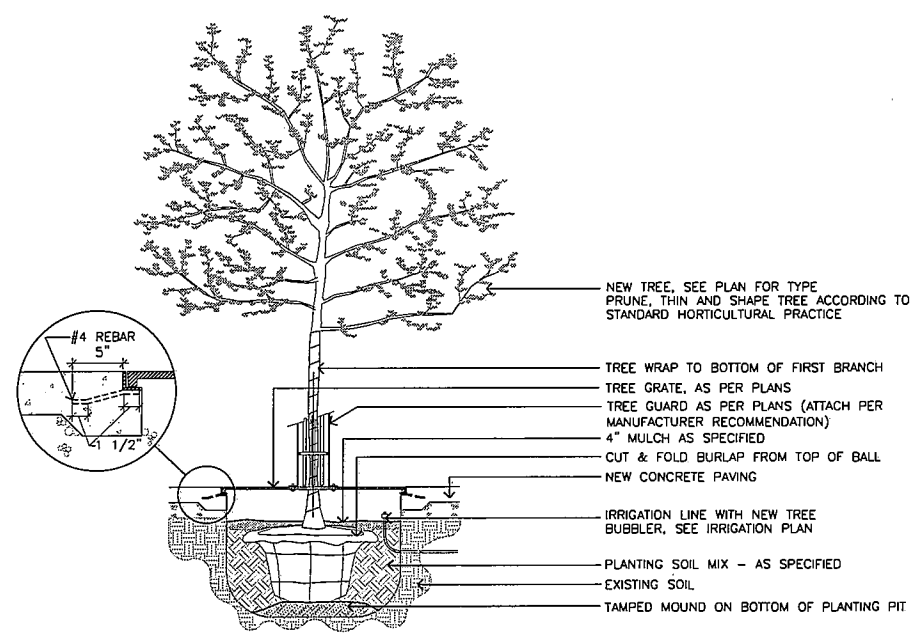
**DOWNTOWN STREET RECONSTRUCTION**  
**SIXTH STREET**  
**OMAHA STREET TO KANSAS CITY STREET**  
RAPID CITY, SOUTH DAKOTA

CITY PROJECT #  
ST10-1817

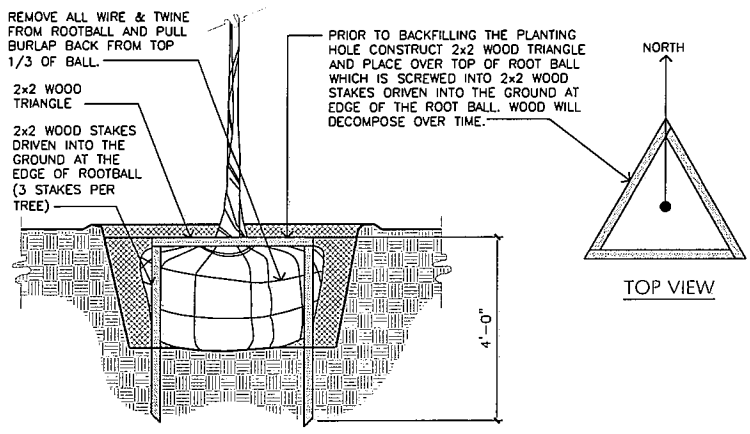
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6TH ST. - KC TO ST JOE  
ALTERNATE  
PLANTING PLAN  
STA 10+50 TO 12+50

Sheet:  
**P-ALT**

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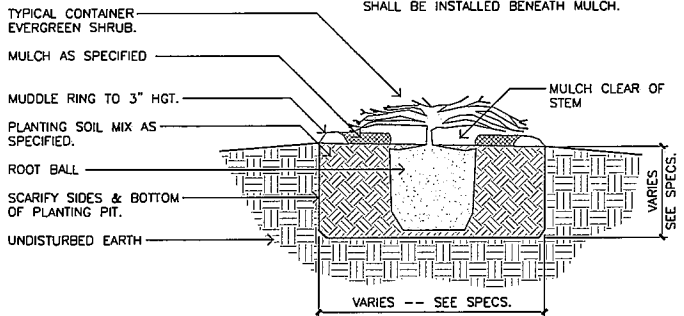
1 SECTION AT TREE GRATE  
PDTL-1 SCALE: 1/2" = 1'-0"



2 SECTION  
DETAIL: UNDERGROUND STABILIZATION  
OF B&B DECIDUOUS TREE  
PDTL-1 SCALE: 1/2" = 1'-0"

NOTES:

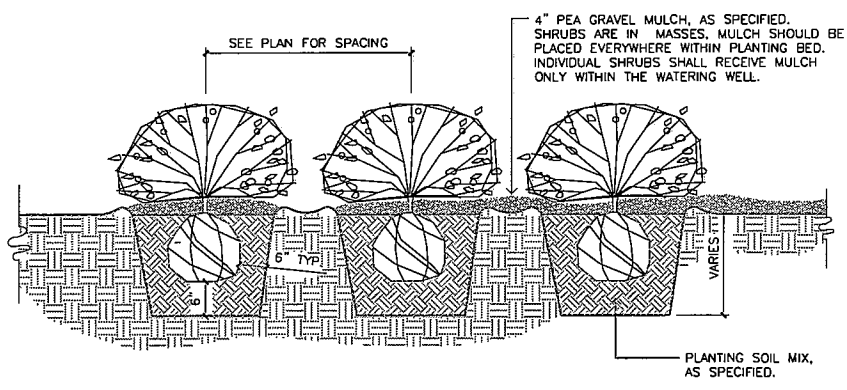
1. PLACE SPECIFIED MULCH AROUND ALL SHRUBS AT SPECIFIED DEPTH.
2. WHEN SHRUBS ARE PLACED IN PLANTING BEDS WITH MULTIPLE PLANTS, THE ENTIRE PLANTING BED SHALL RECEIVE MULCH, TYPICAL.
3. SHRUB PIT SHALL COMPLY WITH WIDTHS AND DEPTHS AS FOUND IN SPECIFICATIONS.
4. IF MINERAL MULCH IS SPECIFIED, USE GEOTEXTILE WEED BARRIER BENEATH MULCH.
5. IF BARK MULCH IS SPECIFIED, NO FABRIC SHALL BE INSTALLED BENEATH MULCH.



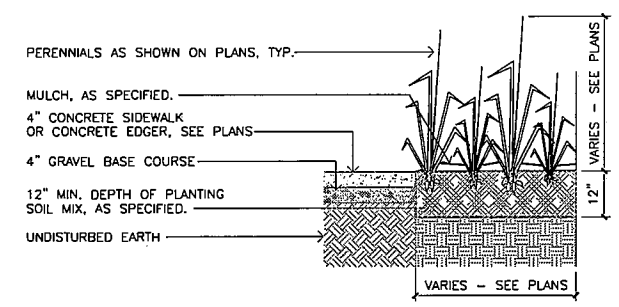
3 SECTION: CONTAINER CONIFEROUS SHRUB  
PDTL-1 NO SCALE

NOTE:

1. PEA GRAVEL MULCH AS SPECIFIED, USE GEOTEXTILE WEED BARRIER BENEATH MULCH.



4 SECTION: TYPICAL SHRUB PLANTING BED  
PDTL-1 NO SCALE



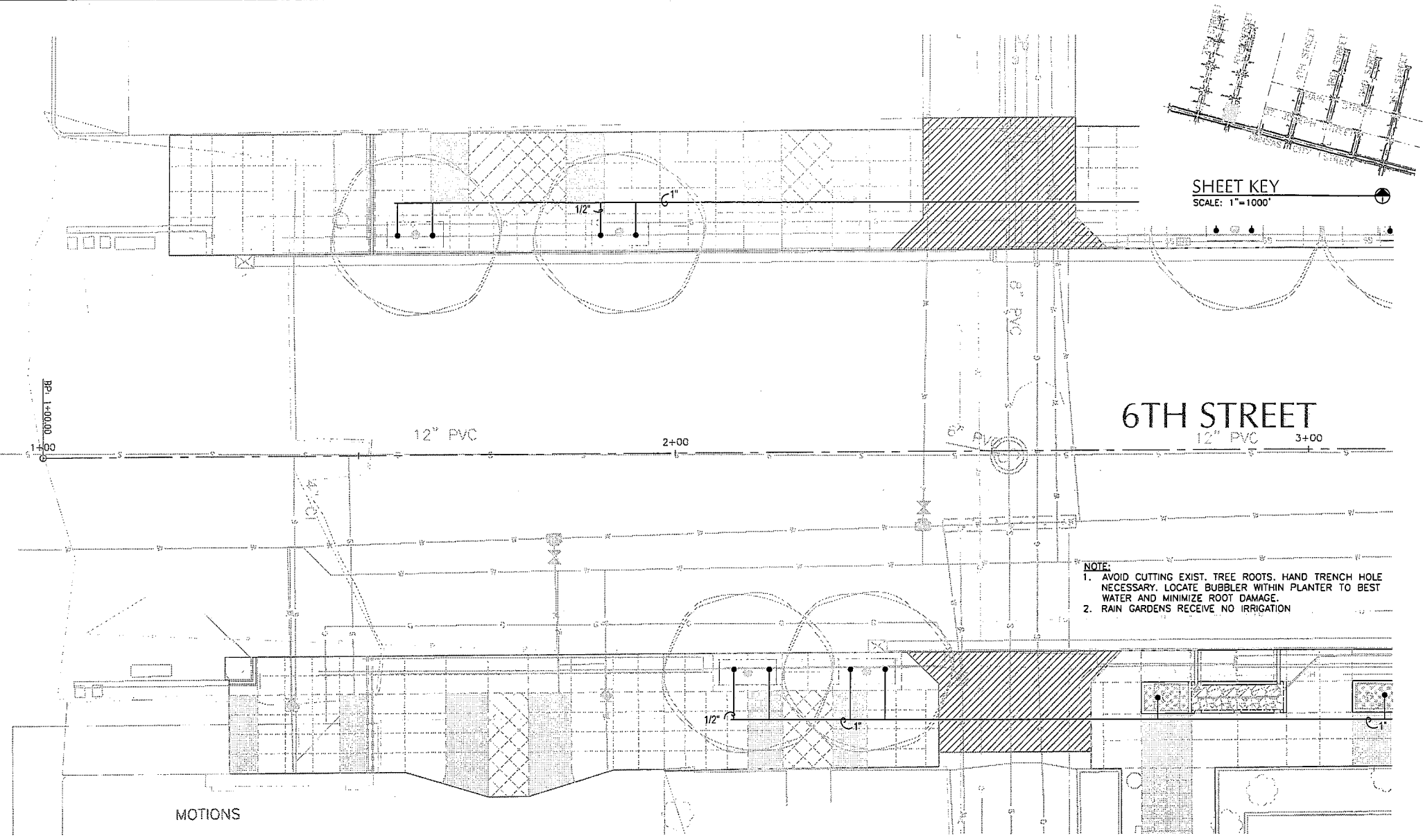
5 SECTION: PERENNIAL PLANTING BED DETAIL  
PDTL-1 SCALE: 1/2" = 1'-0"



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SHEET KEY  
SCALE: 1"=1000'

NOTE:  
1. AVOID CUTTING EXIST. TREE ROOTS. HAND TRENCH HOLE NECESSARY. LOCATE BUBBLER WITHIN PLANTER TO BEST WATER AND MINIMIZE ROOT DAMAGE.  
2. RAIN GARDENS RECEIVE NO IRRIGATION

KEY TO IRRIGATION PLAN

- ☒ POINT OF CONNECTION: CONTRACTOR TO PROVIDE WATER SERVICE TO IRRIGATION SYSTEM FROM THIS POINT
- 1-1/2" REDUCED PRESSURE BACK FLOW PREVENTER
- ☐ IRRIGATION CONTROLLER: NO NEW CONTROLLERS ARE REQUIRED. FIND EXISTING
- ☉ REMOTE CONTROL VALVE: FEB-PRS-D VALVE, OR APPROVED EQUAL
- ☉ QUICK COUPLING VALVE: RAIN BIRD SRC, OR APPROVED EQUAL
- ▲ MANUAL SHUTOFF VALVE: PLASTIC BALL VALVE (SAME SIZE AS LINE) FOR 2.5" AND LESS
- 1-1/2" IRRIGATION MAIN LINE: SCH 40 PVC PIPE (SEE PLAN FOR SIZE)
- NOT INDICATED SLEEVE: SCH 80 PVC OR SCH 40 PVC (SIZE PER PLAN) SCH 80-BENEATH ALL VEHICULAR TRAFFIC SCH 40-BENEATH ALL SIDEWALK OR ASPHALT
- LATERAL LINE: PVC CLASS 200 IPS PLASTIC PIPE. SIZE PER VALVE & AS NOTED ON PLANS
- ZONE KEY:  
15 2" VALVE SIZE  
198 GPM WATER DEMAND
- (\*) BEFORE A ZONE NUMBER DENOTES A XERI-SCAPE ZONE

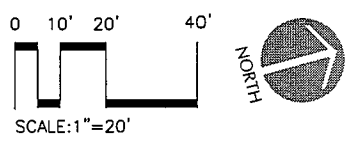
GENERAL IRRIGATION NOTES

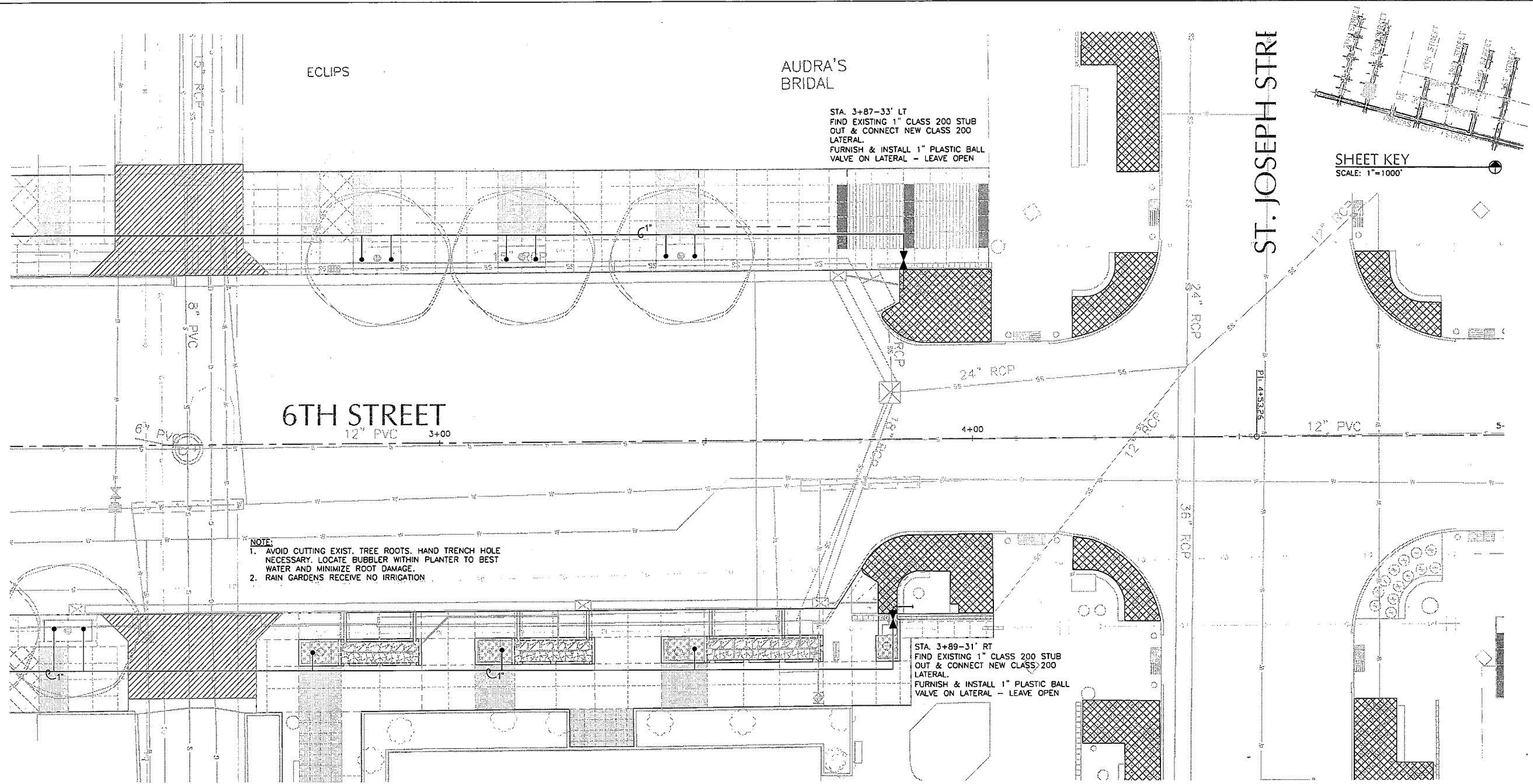
1. THIS SYSTEM IS DESIGNED TO OPERATE WITH A MINIMUM STATIC WATER PRESSURE OF 45 PSI AT THE POINT OF CONNECTION. THE CONTRACTOR SHALL VERIFY THE STATIC WATER PRESSURE AND OPERABILITY OF EACH INDIVIDUAL SYSTEM PRIOR TO COMMENCING WORK. IF NECESSARY, AT NEW POINT OF CONNECTION, CONTRACTOR SHALL INSTALL A PRESSURE REGULATING VALVE AND SET PRESSURE TO 70 PSI.
2. CONTRACTOR SHALL REPAIR DAMAGE DONE TO SITE ELEMENTS, DUE TO CONTRACTORS WORK, AT NO ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR SHALL THOROUGHLY DOCUMENT EXISTING CONDITION OF SITE PRIOR TO COMMENCING WORK AND SUBMIT TO THE OWNER COPIES OF DOCUMENTATION.
3. LOCATE NEW AND EXISTING (THAT ARE RESET) HEADS 4" FROM ADJACENT CURB AND PAVED SURFACES, AND 12" FROM ADJACENT BUILDINGS AND STRUCTURES.
4. CONFIRM EACH CONTROLLER HAS IT'S OWN COMMON WIRE AND THE CONDITION THEREOF.
5. CONTRACTOR SHALL USE FIELD LOCATOR SERVICE TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL HAND TRENCH AROUND UNDERGROUND UTILITIES AS REQUIRED BY LOCAL AUTHORITIES.
6. CONTRACTOR SHALL FIND 2 ADDITIONAL CONTROL WIRES THAT SHOULD BE IN PLACE FOR CONTROLLER ALONG EACH ENTIRE SYSTEM AND VERIFY THEY LOOP BACK TO EACH CONTROLLER. THESE WIRES WILL BE SPARES, AND ARE BEING USED TO EXPAND THE EXISTING SYSTEM SERVING THE INTERSECTION OF MAIN STREET AND SIXTH STREET TO THE NORTH.
7. VALVE LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL LOCATE BOXES IN PLANTING BEDS, NOT IN LAWNS.
8. MAINLINE AND LATERAL LINE LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL KEEP LINES OUT OF PAVED AREAS WHERE POSSIBLE. COMMON TRENCH IF POSSIBLE.
9. ADJUST RADIUS OF ALL SPRINKLERS TO MINIMIZE OVERTHROW.
10. INSTALL SLEEVES UNDER ALL PAVED SURFACES FOR BOTH MAINLINE & LATERALS. SLEEVES SHALL BE TWICE THE SIZE OF THE LINE THEY ENCASE.
11. SOLENOID VALVE ADJUSTMENT: CLOSE FLOW CONTROL UNTIL SPRINKLER RADIUS IS AFFECTED THEN OPEN 1/2 TURN FOR OPTIMUM DIAPHRAGM LIFE.
12. PIPE SIZES ARE NOTED ON PLAN.
13. CONTRACTOR TO VERIFY EACH EXISTING VALVE THAT IS BEING EXPANDED HAS THE CAPACITY TO EXTEND THE SYSTEM AS DESIGNED. IF FIELD TESTS INDICATE THE POTENTIAL FOR UNDERPERFORMING SYSTEMS IF INSTALLED AS DESIGNED, STOP WORK AND ALERT LANDSCAPE ARCHITECT AND CITY ENGINEER FOR REDESIGN.

GENERAL IRRIGATION NOTES CONTINUED...

1. REGARDING EXISTING IRRIGATION:  
ALERT LANDSCAPE ARCHITECT TO CONDITION OF EXISTING CLASS 200 LATERALS AT EXISTING STUB OUTS. IF CONDITION IS POOR STOP WORK. ALERT LANDSCAPE ARCHITECT AND CITY ENGINEER AND WAIT FOR DETERMINATION OF HOW TO CONTINUE.
2. PLANTING REMODEL AT NODES: REMOVE & STUB OUT EXISTING LATERALS AND MAIN THAT CONFLICTS WITH NEW LAYOUT. ADJUST EXISTING SPRAY IRRIGATION AS MADE NECESSARY BY NEW PLANTINGS. ALL NODE IRRIGATION SHOULD BE MADE TO GOOD WORKING ORDER UNLESS EXISTING DAMAGE IS DOCUMENTED AND PRESENTED BY CONTRACTOR TO LANDSCAPE ARCHITECT AND CITY ENGINEER PRIOR TO START OF WORK.
3. COORDINATE IRRIGATION WORK WITH CITY PARKS REPRESENTATIVES  
GARY GARNER OR SCOTT ANDERSON  
CITY OF RAPID CITY  
DEPT. OF PARKS AND RECREATION  
(605) 394-4175
4. IRRIGATION CONSISTS OF TWO BID ITEMS:  
4.1. NEW BACKFLOW PREVENTER, INCLUDING SALVAGING OLD DOUBLE CHECK VALVE AT NORTH EAST CORNER OF MAIN STREET AND SIXTH STREET, REMOVING VAULT, STUBBING OUT BELOW GRADE LINES, FILLING BELOW GRADE PORTIONS OF VAULT, REPAIRING SEAT WALL BRICK AND CAP ADJACENT TO OLD DOUBLE CHECK VALVE, NEW CONNECTION TO WATER VALVE, NEW REDUCED PRESSURE BACK FLOW PREVENTER, METER AND ASSOCIATED APPURTENANCES, NEW CONCRETE BASE, NEW COVER AND NEW MAINLINE CONNECTION TO EXISTING MAINLINE. PAYMENT WILL BE FULL COMPENSATION FOR MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED.
- 4.2. GENERAL IRRIGATION WHICH COMPRISES ALL OTHER IRRIGATION WORK NECESSARY TO COMPLETE PROJECT. PAYMENT WILL BE FULL COMPENSATION FOR MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED.

EXISTING UTILITIES LOCATIONS:  
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNERS OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONTACT THE SOUTH DAKOTA ONE CALL NOTIFICATION CENTER 2025 CENTRE POINTE BOULEVARD #310 MENDOTA HEIGHTS, MN 55120 1-800-781-7474





ECLIPS

AUDRA'S BRIDAL

ST. JOSEPH STRE

6TH STREET  
12" PVC 3+00

STA. 3+87-33' LT  
FIND EXISTING 1" CLASS 200 STUB  
OUT & CONNECT NEW CLASS 200  
LATERAL.  
FURNISH & INSTALL 1" PLASTIC BALL  
VALVE ON LATERAL - LEAVE OPEN

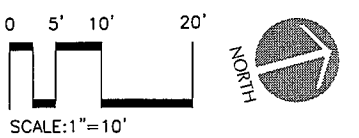
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FIND EXISTING 1" CLASS 200 STUB  
OUT & CONNECT NEW CLASS 200  
LATERAL.  
FURNISH & INSTALL 1" PLASTIC BALL  
VALVE ON LATERAL - LEAVE OPEN

**NOTE:**  
1. AVOID CUTTING EXIST. TREE ROOTS. HAND TRENCH HOLE  
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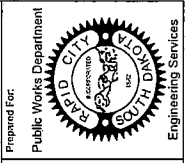
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SCALE: 1"=1000'

GENERAL IRRIGATION NOTES CONTINUED...

1. REGARDING EXISTING IRRIGATION:  
ALERT LANDSCAPE ARCHITECT TO CONDITION OF EXISTING CLASS 200  
LATERALS AT EXISTING STUB OUTS. IF CONDITION IS POOR STOP WORK,  
ALERT LANDSCAPE ARCHITECT AND CITY ENGINEER AND WAIT FOR  
DETERMINATION OF HOW TO CONTINUE.
2. PLANTING REMODEL AT NODES: REMOVE & STUB OUT EXISTING LATERALS AND  
MAIN THAT CONFLICTS WITH NEW LAYOUT. ADJUST EXISTING SPRAY IRRIGATION  
AS MADE NECESSARY BY NEW PLANTINGS. ALL NODE IRRIGATION SHOULD BE  
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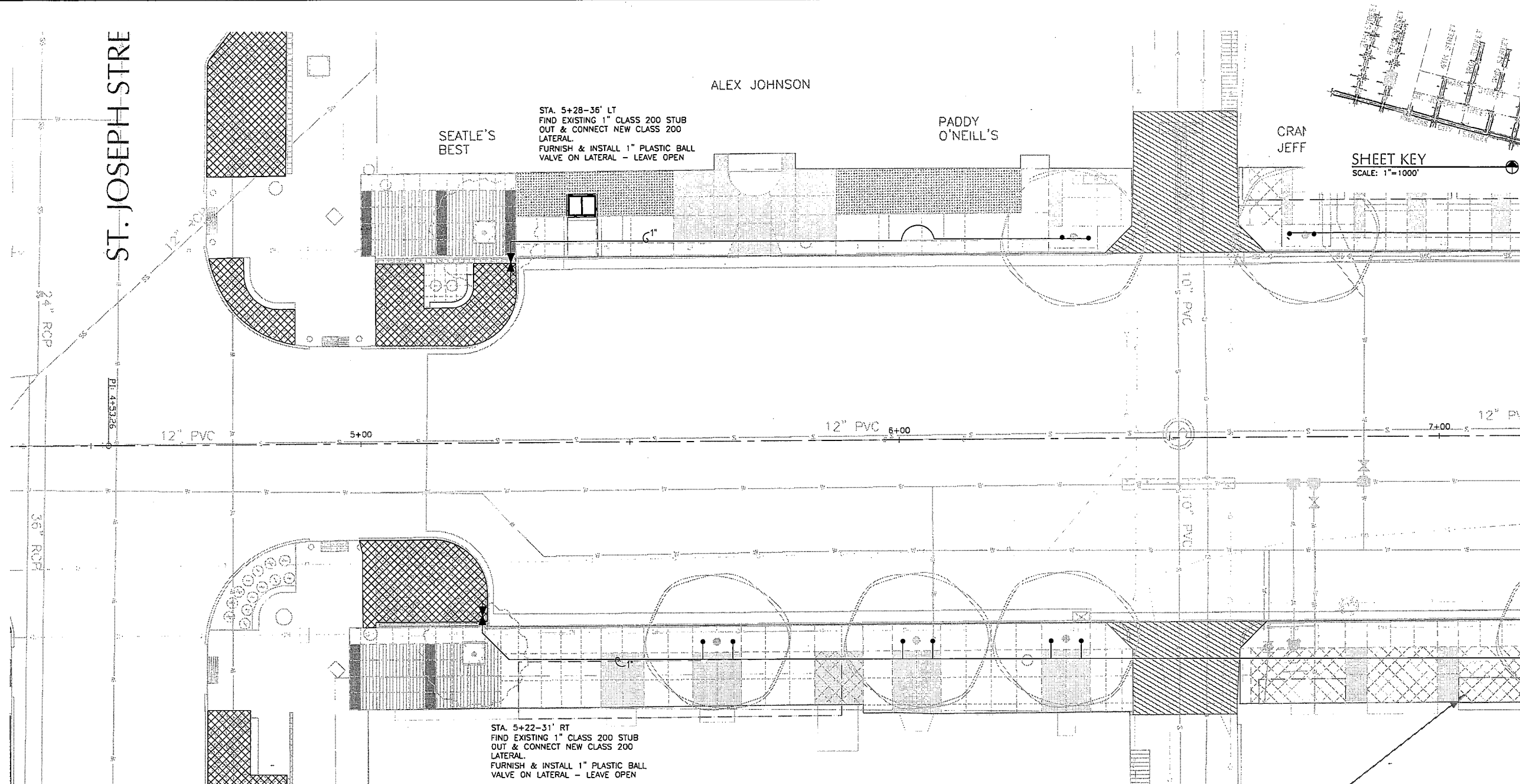
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**OMAHA STREET TO KANSAS CITY STREET**  
RAPID CITY, SOUTH DAKOTA

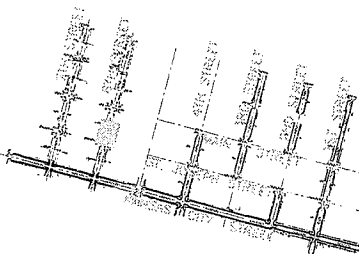
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ST10-1817  
Sheet Title:  
6TH ST.- KC TO ST JOE  
IRRIGATION PLAN  
STA 3+00 TO 4+50  
Sheet:  
**IR-2**

ST. JOSEPH STRE



STA. 5+28-36' LT  
FIND EXISTING 1" CLASS 200 STUB  
OUT & CONNECT NEW CLASS 200  
LATERAL.  
FURNISH & INSTALL 1" PLASTIC BALL  
VALVE ON LATERAL - LEAVE OPEN

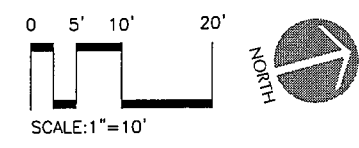
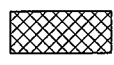
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OUT & CONNECT NEW CLASS 200  
LATERAL.  
FURNISH & INSTALL 1" PLASTIC BALL  
VALVE ON LATERAL - LEAVE OPEN



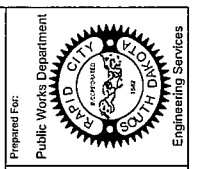
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SCALE: 1" = 1000'

GENERAL IRRIGATION NOTES CONTINUED...

1. REGARDING EXISTING IRRIGATION:  
ALERT LANDSCAPE ARCHITECT TO CONDITION OF EXISTING CLASS 200 LATERALS AT EXISTING STUB OUTS. IF CONDITION IS POOR STOP WORK, ALERT LANDSCAPE ARCHITECT AND CITY ENGINEER AND WAIT FOR DETERMINATION OF HOW TO CONTINUE.
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Public Works Department  
517 7th street rapid city sd 57701  
ph: 605.342.9470 fax: 605.342.2377  
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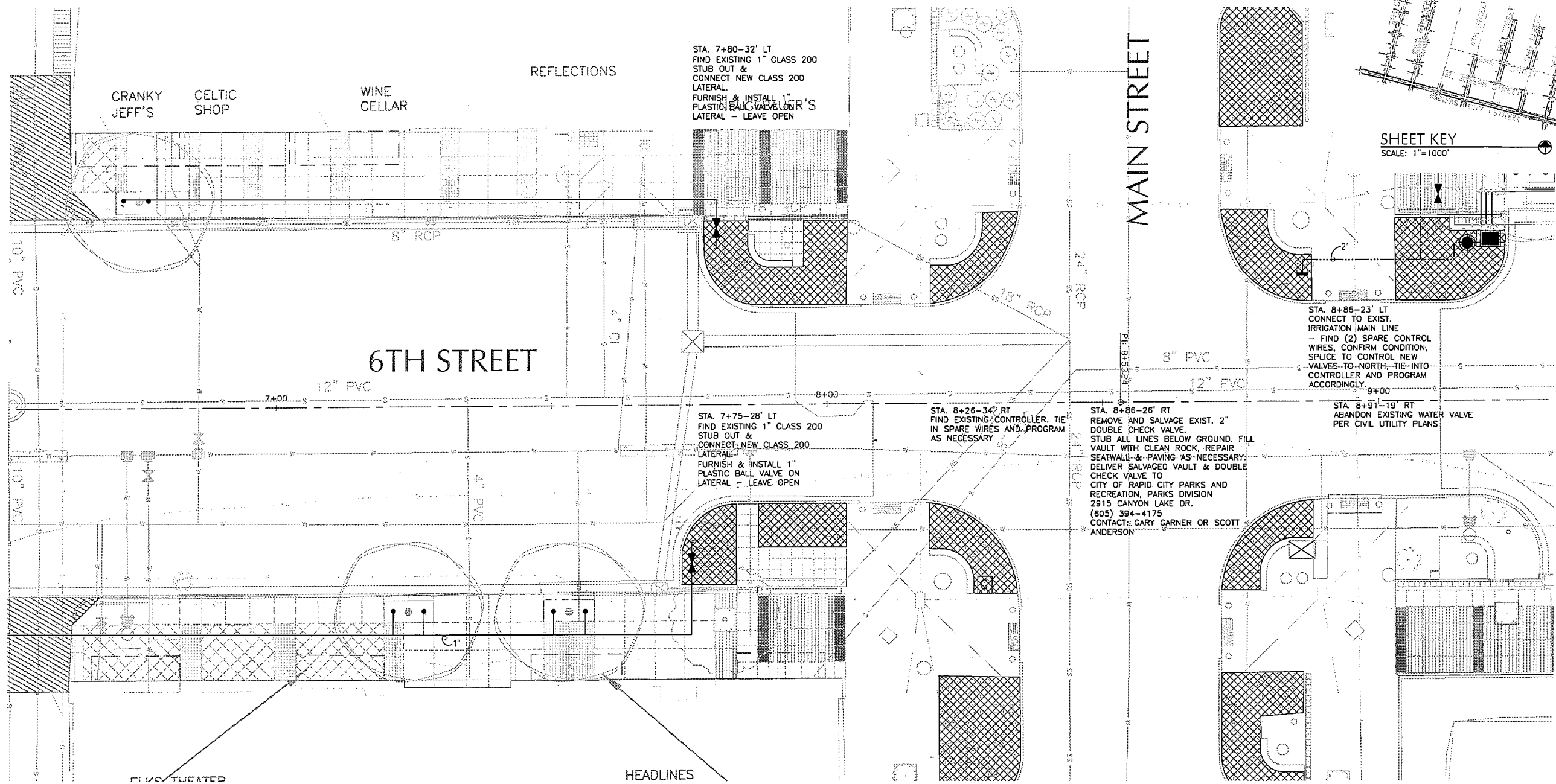
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MF	MF/MJ/AW
Design Date:	Print Date:
12-23-09	7-02-10
Internal Job No:	
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Surveyed By:	Survey Date:
Revisions:	

DOWNTOWN STREET RECONSTRUCTION  
SIXTH STREET  
OMAHA STREET TO KANSAS CITY STREET  
RAPID CITY, SOUTH DAKOTA

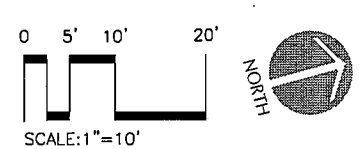
CITY PROJECT #	ST10-1817
Sheet Title:	6TH ST. - KC TO ST JOE
	IRRIGATION PLAN STA 4+50 TO 7+00
Sheet	IR-3



SHEET KEY  
SCALE: 1"=1000'

GENERAL IRRIGATION NOTES CONTINUED...

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ALERT LANDSCAPE ARCHITECT TO CONDITION OF EXISTING CLASS 200 LATERALS AT EXISTING STUB OUTS. IF CONDITION IS POOR STOP WORK, ALERT LANDSCAPE ARCHITECT AND CITY ENGINEER AND WAIT FOR DETERMINATION OF HOW TO CONTINUE.
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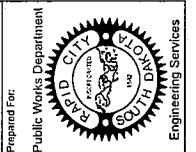
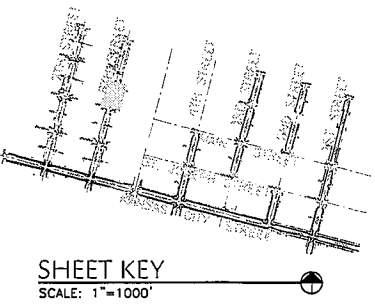
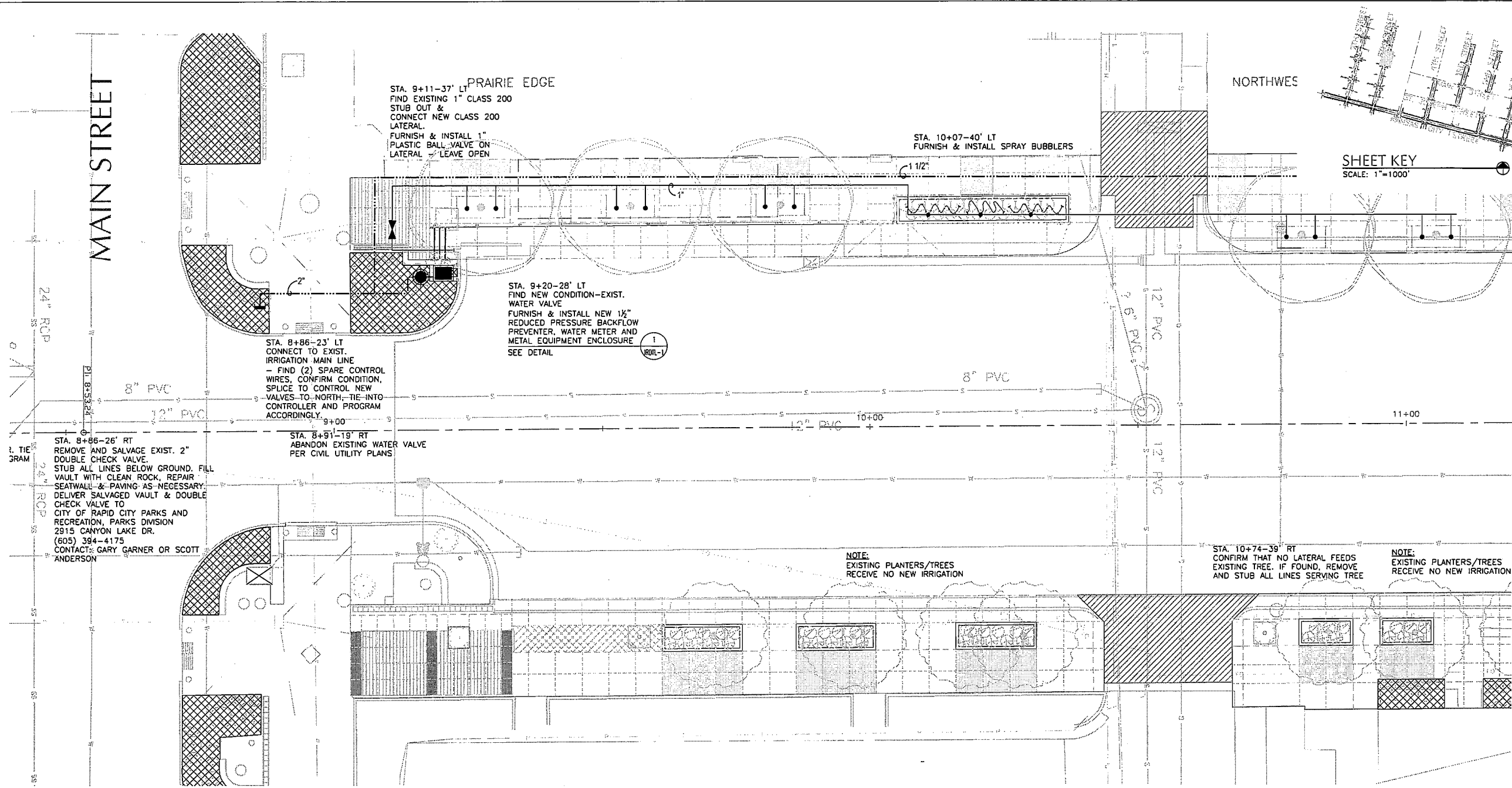
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Revisions:

**DOWNTOWN STREET RECONSTRUCTION**  
SIXTH STREET  
OMAHA STREET TO KANSAS CITY STREET  
RAPID CITY, SOUTH DAKOTA

CITY PROJECT # ST10-1817  
Sheet Title: 6TH ST.- KC TO ST JOE  
IRRIGATION PLAN STA 7+00 TO 9+00  
Sheet: IR-4



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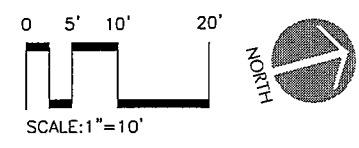
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Revisions:	

**DOWNTOWN STREET RECONSTRUCTION**  
**SIXTH STREET**  
**OMAHA STREET TO KANSAS CITY STREET**  
RAPID CITY, SOUTH DAKOTA

**GENERAL IRRIGATION NOTES CONTINUED...**

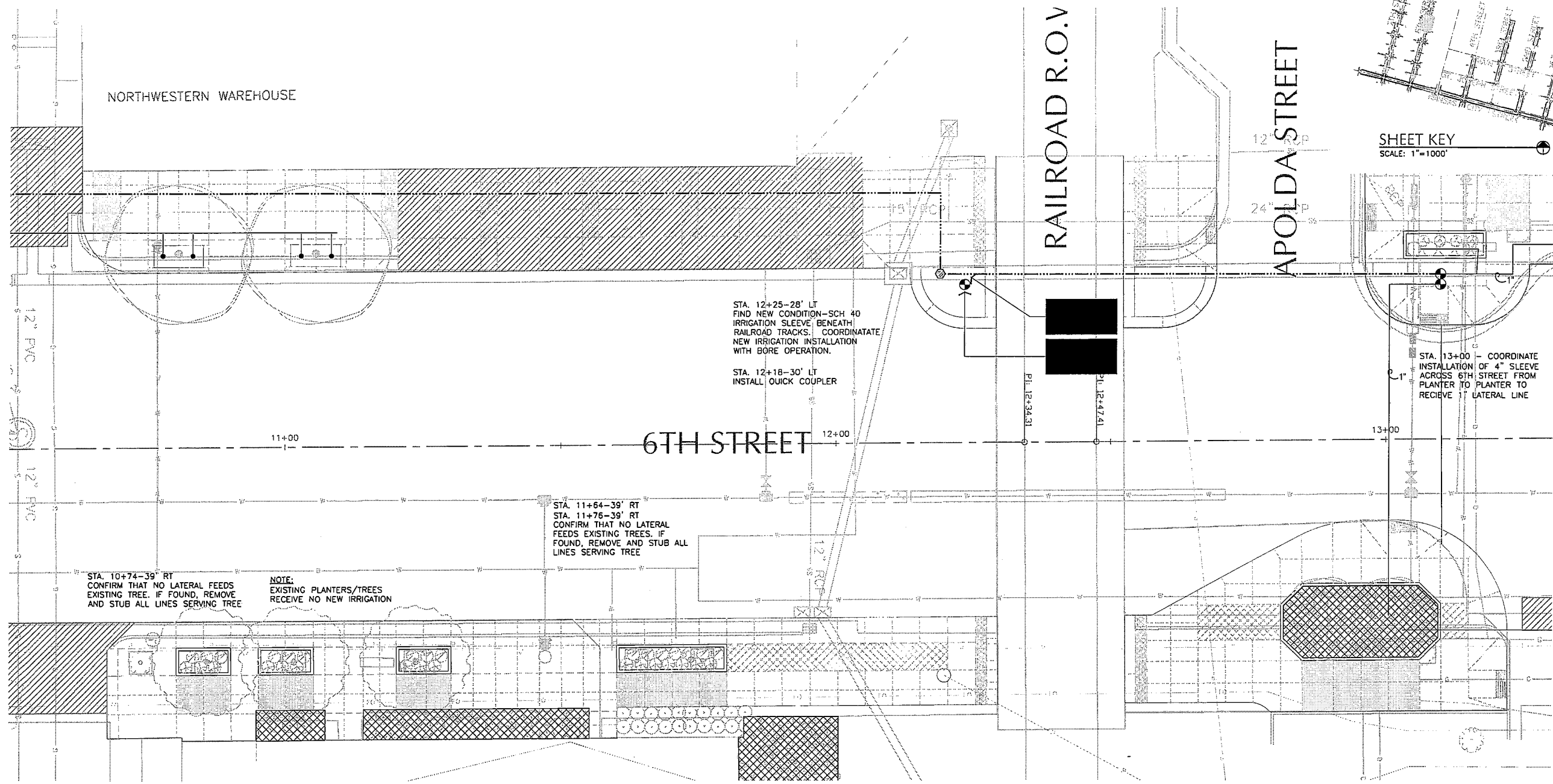
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CITY PROJECT #	ST10-1817
Sheet Title:	IRRIGATION PLAN STA 9+00 TO 11+00
6TH ST.- KC TO ST JOE	
Sheet:	<b>IR-5</b>





NORTHWESTERN WAREHOUSE

RAILROAD R.O.V.

APOLDA STREET

6TH STREET

STA. 12+25-28' LT  
FIND NEW CONDITION-SCH 40  
IRRIGATION SLEEVE BENEATH  
RAILROAD TRACKS. COORDINATE  
NEW IRRIGATION INSTALLATION  
WITH BORE OPERATION.

STA. 12+18-30' LT  
INSTALL QUICK COUPLER

STA. 13+00 - COORDINATE  
INSTALLATION OF 4" SLEEVE  
ACROSS 6TH STREET FROM  
PLANTER TO PLANTER TO  
RECEIVE LATERAL LINE

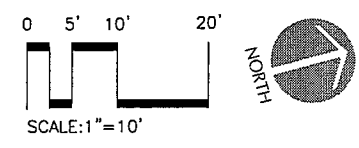
STA. 11+64-39' RT  
STA. 11+76-39' RT  
CONFIRM THAT NO LATERAL  
FEEDS EXISTING TREES. IF  
FOUND, REMOVE AND STUB ALL  
LINES SERVING TREE

STA. 10+74-39' RT  
CONFIRM THAT NO LATERAL FEEDS  
EXISTING TREE. IF FOUND, REMOVE  
AND STUB ALL LINES SERVING TREE

NOTE:  
EXISTING PLANTERS/TREES  
RECEIVE NO NEW IRRIGATION

GENERAL IRRIGATION NOTES CONTINUED. . .

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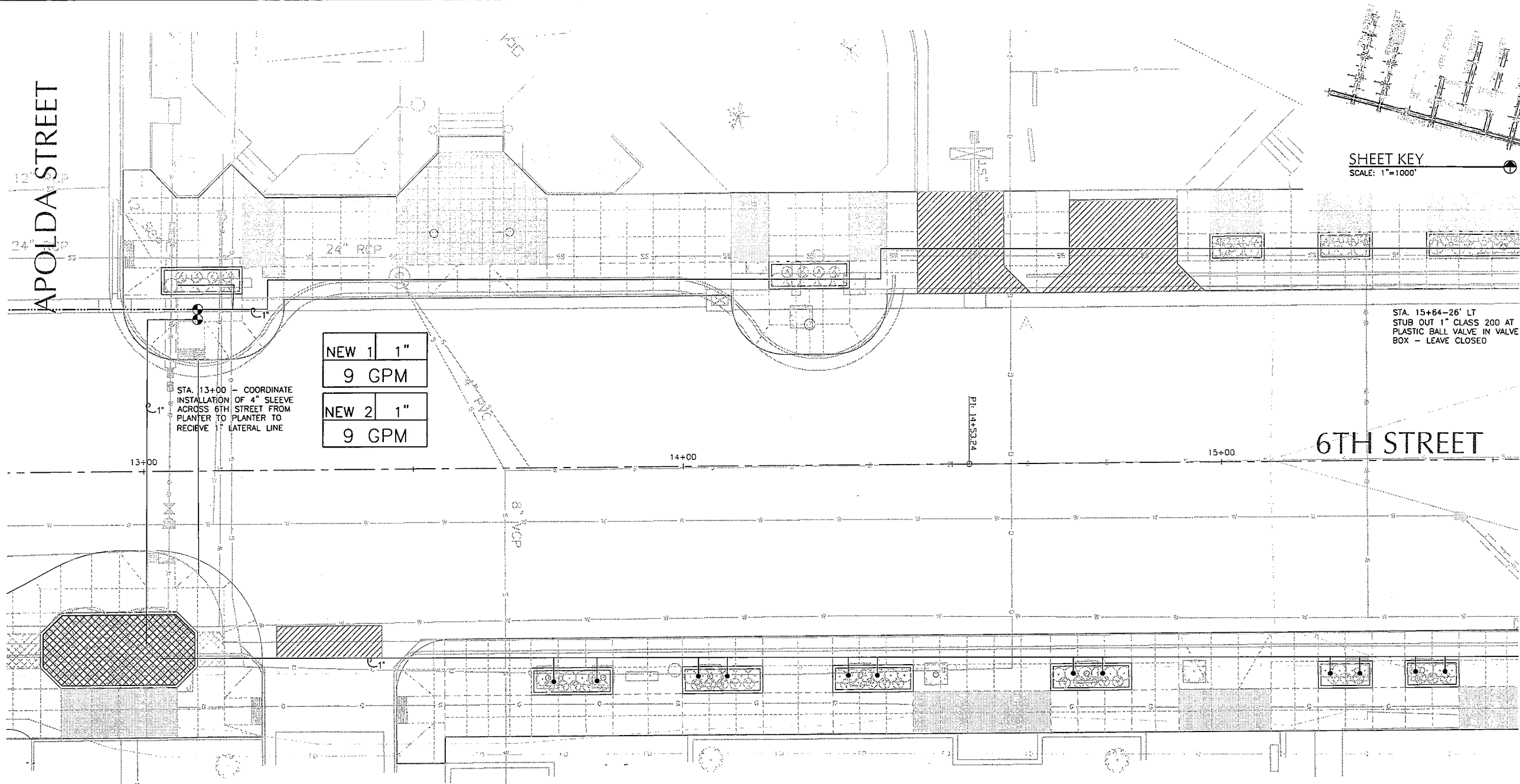


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Revisions:

**DOWNTOWN STREET RECONSTRUCTION**  
**SIXTH STREET**  
**OMAHA STREET TO KANSAS CITY STREET**  
RAPID CITY, SOUTH DAKOTA

CITY PROJECT #  
ST10-1817  
Sheet Title:  
6TH ST. - KC TO ST JOE  
IRRIGATION PLAN  
STA 11+00 TO 13+00  
Sheet:  
**IR-6**



**SHEET KEY**  
SCALE: 1"=1000'

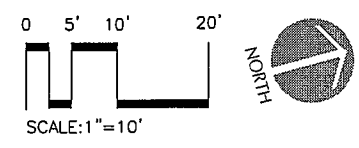
STA. 13+00 - COORDINATE  
INSTALLATION OF 4" SLEEVE  
ACROSS 6TH STREET FROM  
PLANTER TO PLANTER TO  
RECEIVE 1" LATERAL LINE

NEW 1	1"
9 GPM	
NEW 2	1"
9 GPM	

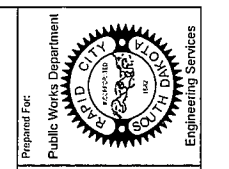
STA. 15+64-26' LT  
STUB OUT 1" CLASS 200 AT  
PLASTIC BALL VALVE IN VALVE  
BOX - LEAVE CLOSED

**GENERAL IRRIGATION NOTES CONTINUED...**

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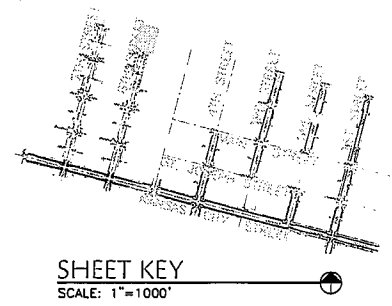
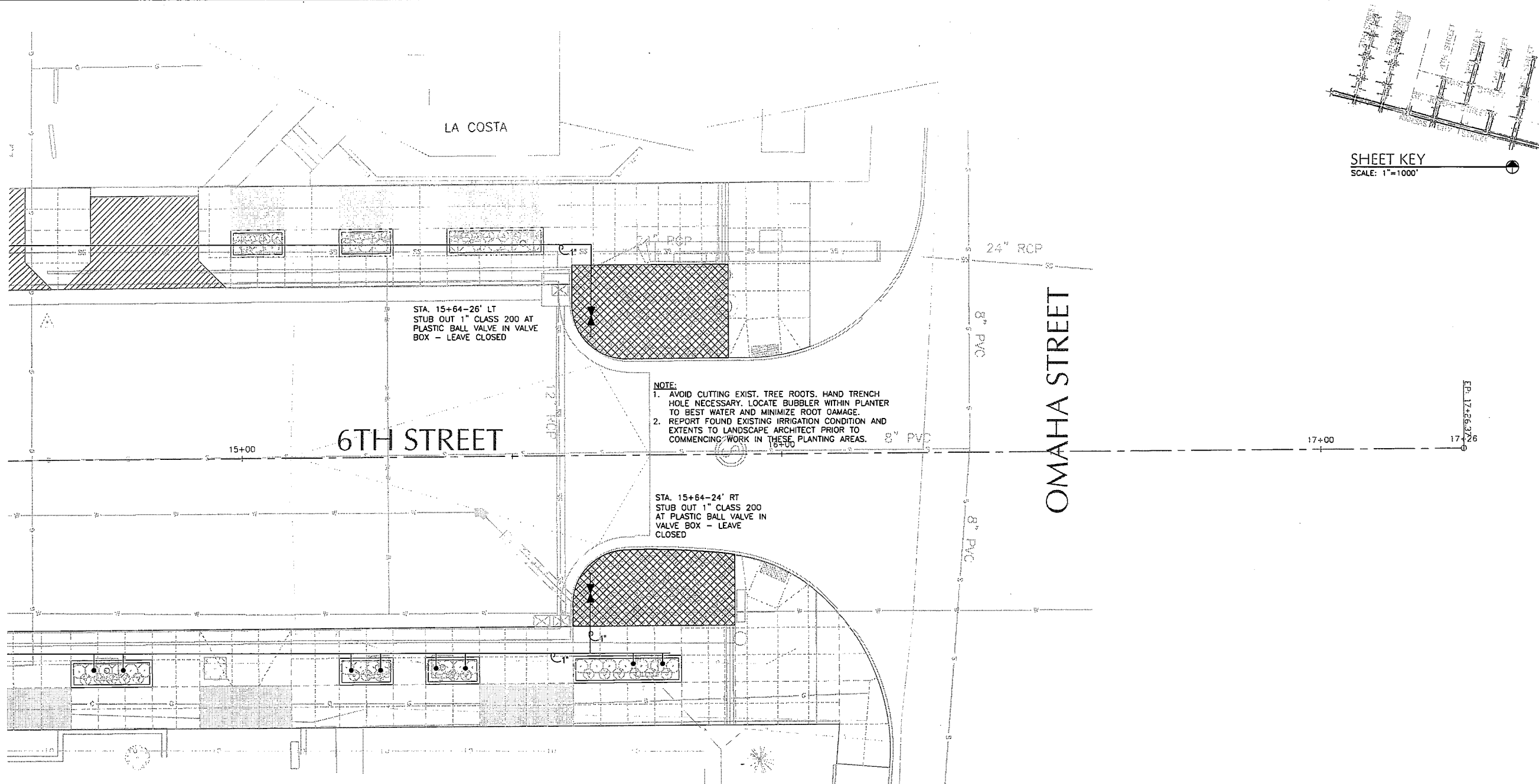
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Revisions:	

**DOWNTOWN STREET RECONSTRUCTION  
SIXTH STREET  
OMAHA STREET TO KANSAS CITY STREET**  
RAPID CITY, SOUTH DAKOTA

CITY PROJECT #	ST10-1817
Sheet Title:	6TH ST.- KC TO ST JOE
	IRRIGATION PLAN STA 13+00 TO 15+50
Sheet:	IR-7



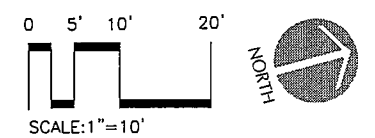
**NOTE:**  
 1. AVOID CUTTING EXIST. TREE ROOTS. HAND TRENCH HOLE NECESSARY. LOCATE BUBBLER WITHIN PLANTER TO BEST WATER AND MINIMIZE ROOT DAMAGE.  
 2. REPORT FOUND EXISTING IRRIGATION CONDITION AND EXTENTS TO LANDSCAPE ARCHITECT PRIOR TO COMMENCING WORK IN THESE PLANTING AREAS.

STA. 15+64-24' RT  
 STUB OUT 1" CLASS 200 AT PLASTIC BALL VALVE IN VALVE BOX - LEAVE CLOSED

STA. 15+64-26' LT  
 STUB OUT 1" CLASS 200 AT PLASTIC BALL VALVE IN VALVE BOX - LEAVE CLOSED

GENERAL IRRIGATION NOTES CONTINUED. . .

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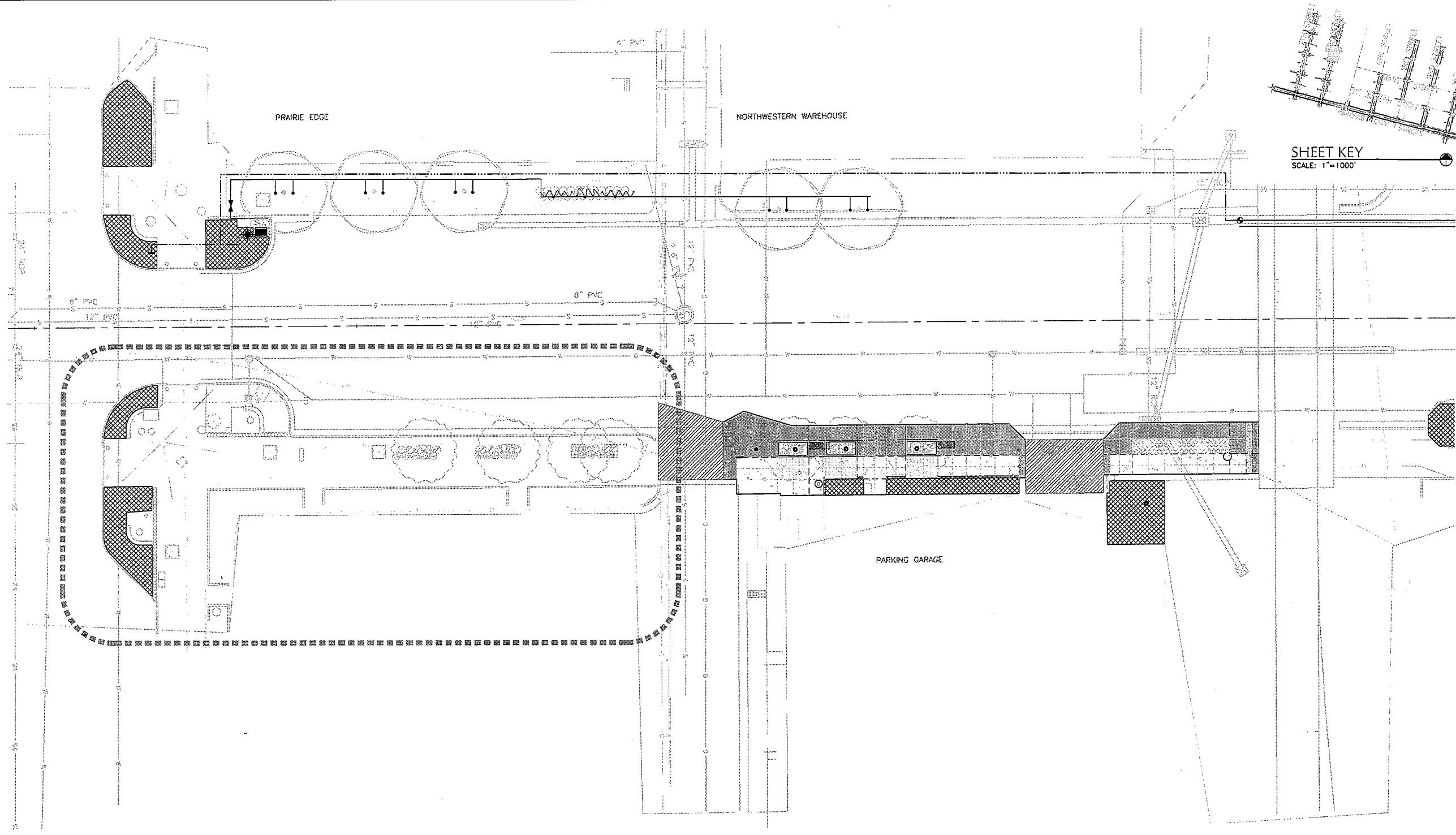


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CITY PROJECT #	ST10-1817
Sheet Title:	IRRIGATION PLAN STA 15+50 TO 16+00
6TH ST.- KC TO ST JOE	
Sheet:	<b>IR-8</b>



**SHEET KEY**  
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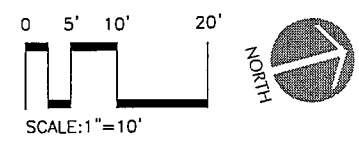
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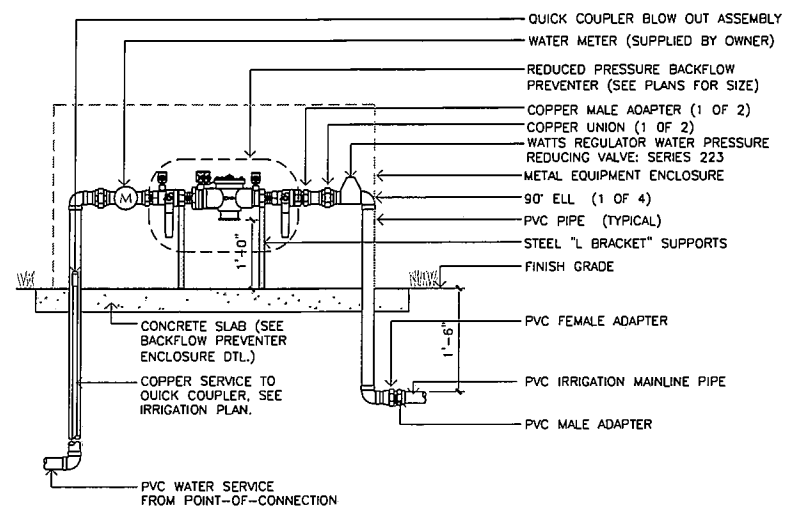
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ST10-1817  
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6TH ST.- KC TO ST JOE  
ALTERNATE  
IRRIGATION PLAN  
STA 10+50 TO 12+50  
Sheet:  
**IR-ALT**

**GENERAL IRRIGATION NOTES**

- IF BID ALTERNATE IS SELECTED REMOVAL ALL EXISTING IRRIGATION IN THE BID ALTERNATE AREA.

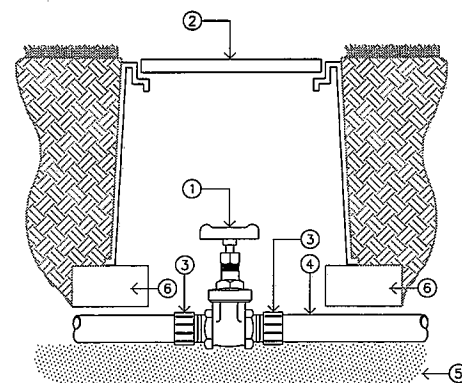


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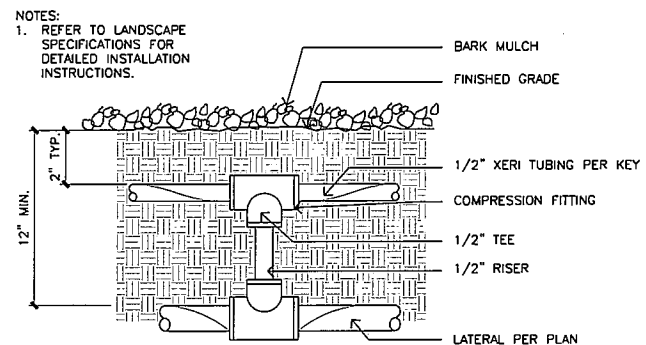
NOTE:  
1. INSTALL BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODES AND HEALTH DEPARTMENT. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION.

**1** DETAIL: BACKFLOW PREVENTER  
SCALE: 3/4"=1'-0"



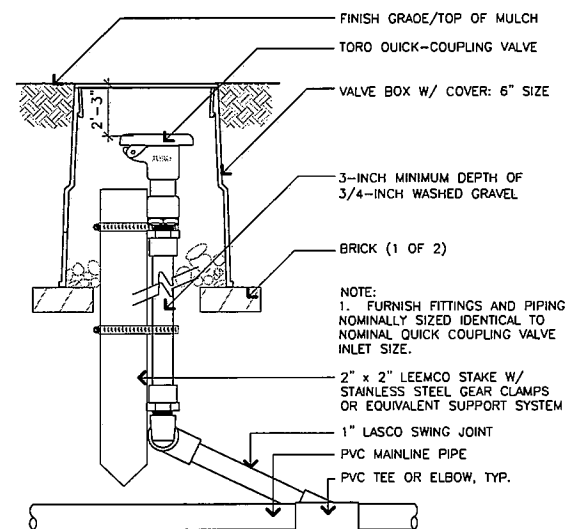
- 1 BALL VALVE AS SPECIFIED
- 2 10" ROUND PLASTIC VALVE BOX AND LID
- 3 MALE ADAPTER
- 4 MAINLINE PIPE
- 5 2 C.F. DRAIN ROCK SUMP (3/4" WASHED)
- 6 1 OF 2 BRICKS SET PARALLEL TO LINE (NOT ABOVE PIPE)

**4** ISOLATION VALVE DETAIL  
NOT TO SCALE



NOTES:  
1. REFER TO LANDSCAPE SPECIFICATIONS FOR DETAILED INSTALLATION INSTRUCTIONS.

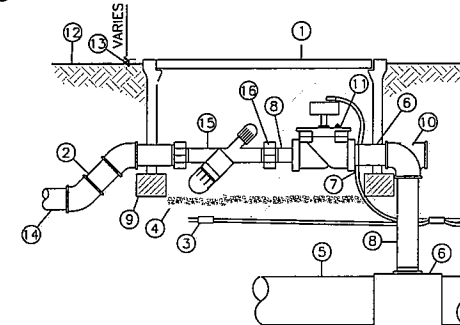
**2** DRIP TUBING CONNECTION  
NOT TO SCALE



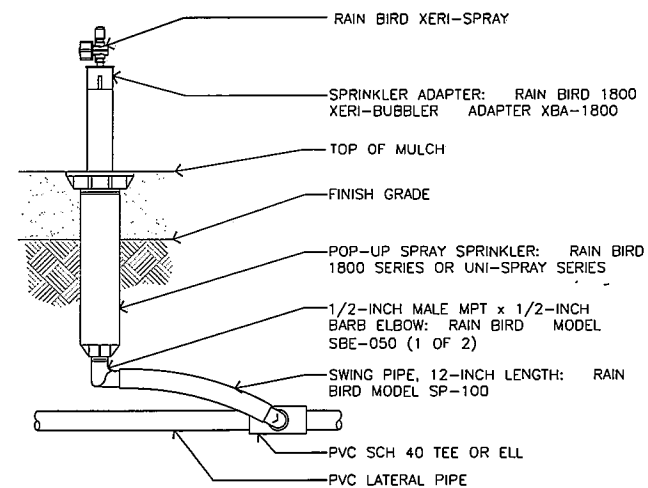
NOTE:  
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

**5** DETAIL: QUICK COUPLING VALVE  
SCALE: 3"=1'-0"

- 1 CARSON 1419-12-4 PLASTIC VALVE BOX AND LID
- 2 TO SPRINKLER (ANGLE PIPE TO DEPTH SPECIFIED WITH 45 DEG. ELBOW)
- 3 COMMON WIRE, 14 GA., TO OTHER VALVES FROM CONTROLLER
- 4 3/4" GRAVEL, 1 CU. FT.
- 5 MAINLINE
- 6 MAIN LINE FITTING
- 7 14 GA. CONTROL WIRES TO CONTROLLER (12" MIN. LOOP)
- 8 NIPPLES, LENGTH AS REQUIRED
- 9 BRICK AT CORNERS
- 10 90 DEG. TEE OR ELBOW AS REQUIRED
- 11 ELECTRIC SOLENOID CONTROL VALVE PER IRRIGATION LEGEND
- 12 FINISH GRADE
- 13 1" AT LAWN AREAS, 3" AT GRAVEL MULCH AREAS
- 14 LATERAL LINE
- 15 FILTER PER IRRIGATION LEGEND
- 16 COUPLING



**3** SECTION: TYPICAL DRIP IRRIGATION CONTROL VALVE  
NOT TO SCALE



**6** 1800 WITH XERI-SPRAY  
SCALE: 3" = 1'-0"

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