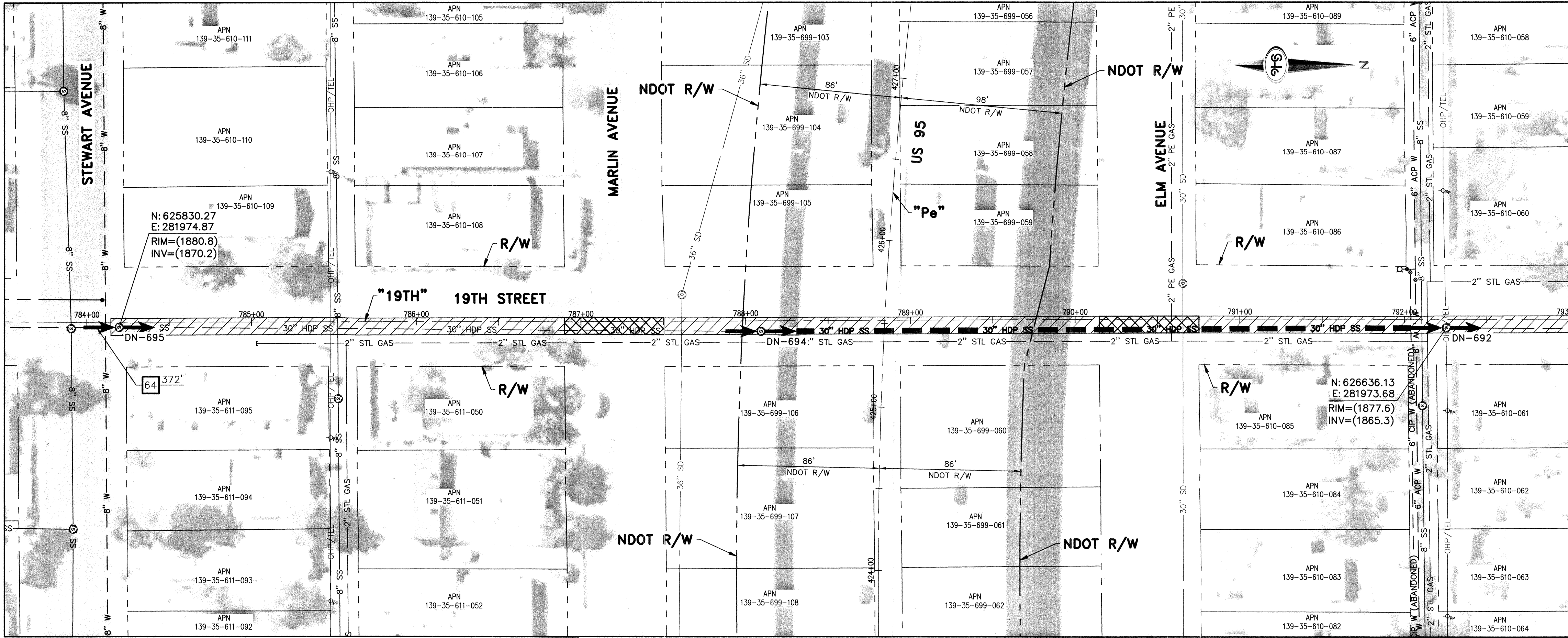




- CONSTRUCTION BYPASS NOTES:**
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 - IF REQUIRED, REMOVE AND REINSTALL MANHOLE FRAME, COVER, GRADE RINGS, AND CONE PER SD-4 OF THE DECISIONS.
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LEGEND

[Symbol] BYPASS PIPING, MAINTAIN PEDESTRIAN AND DRIVEWAY/ALLEY ACCESS AT ALL TIMES

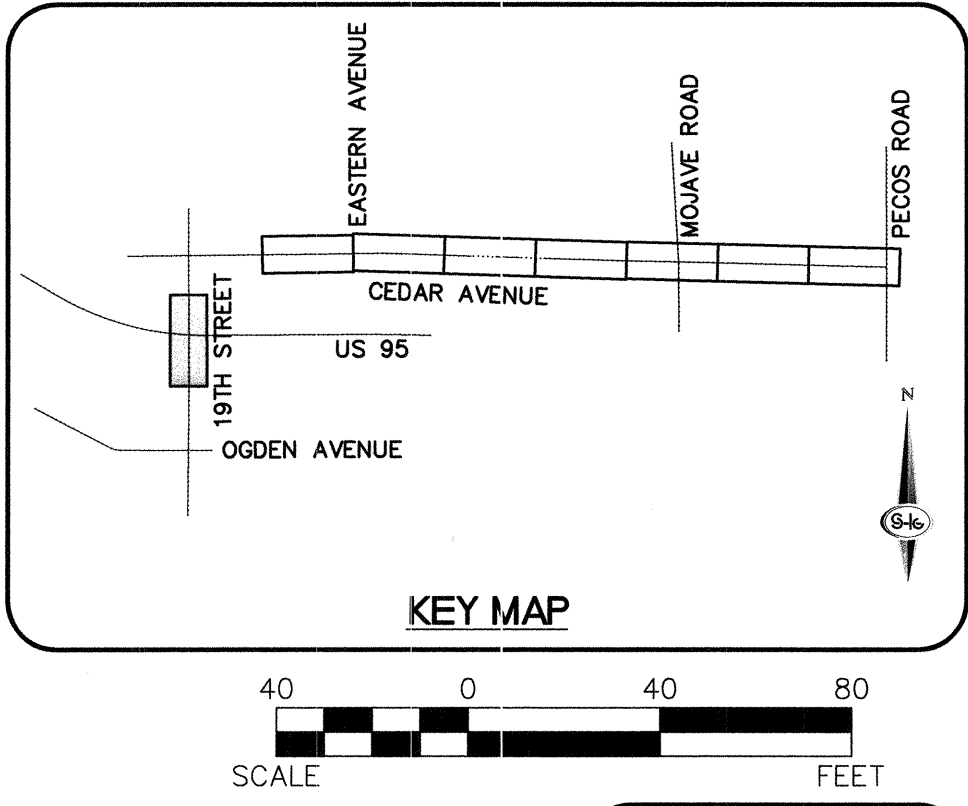
[Symbol] FLOW BYPASS ACCESS DETAIL. SEE DETAIL 3 ON SHEET DT-01

[Symbol] FLOW NUMBER, SEE ESTIMATED FLOW TABLE BELOW

***ESTIMATED SANITARY SEWER FLOWS**

FLOW NO.	PIPE DIA	ADWF (MGD)	PEAK (MGD)	DESCRIPTION
64	30"	1.66	2.46	OBTAINED FLOW BY MONITORING

* FLOWS SHOWN ARE ESTIMATES PROVIDED FOR BIDDING PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING FLOWS PRIOR TO DESIGN OF BYPASS PLAN.



APPROVED FOR CONSTRUCTION
Don Made 04/15/14
DATE
LVVWD ENGINEERING SERVICES MANAGER
PROJECT NO. 121821



REVISIONS

NO.	DATE	DESCRIPTION	APP'D

DATE: 4/1/14

DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT

CITY ENGINEER: DAVID BOWERS, PE, PTOE
PROGRAM MANAGER: JEREMY LEAVITT, P.E.
DESIGNED BY: JSR
DRAWN BY: JAS
CHECKED BY: RWC

SANITARY SEWER REHABILITATION GROUP B

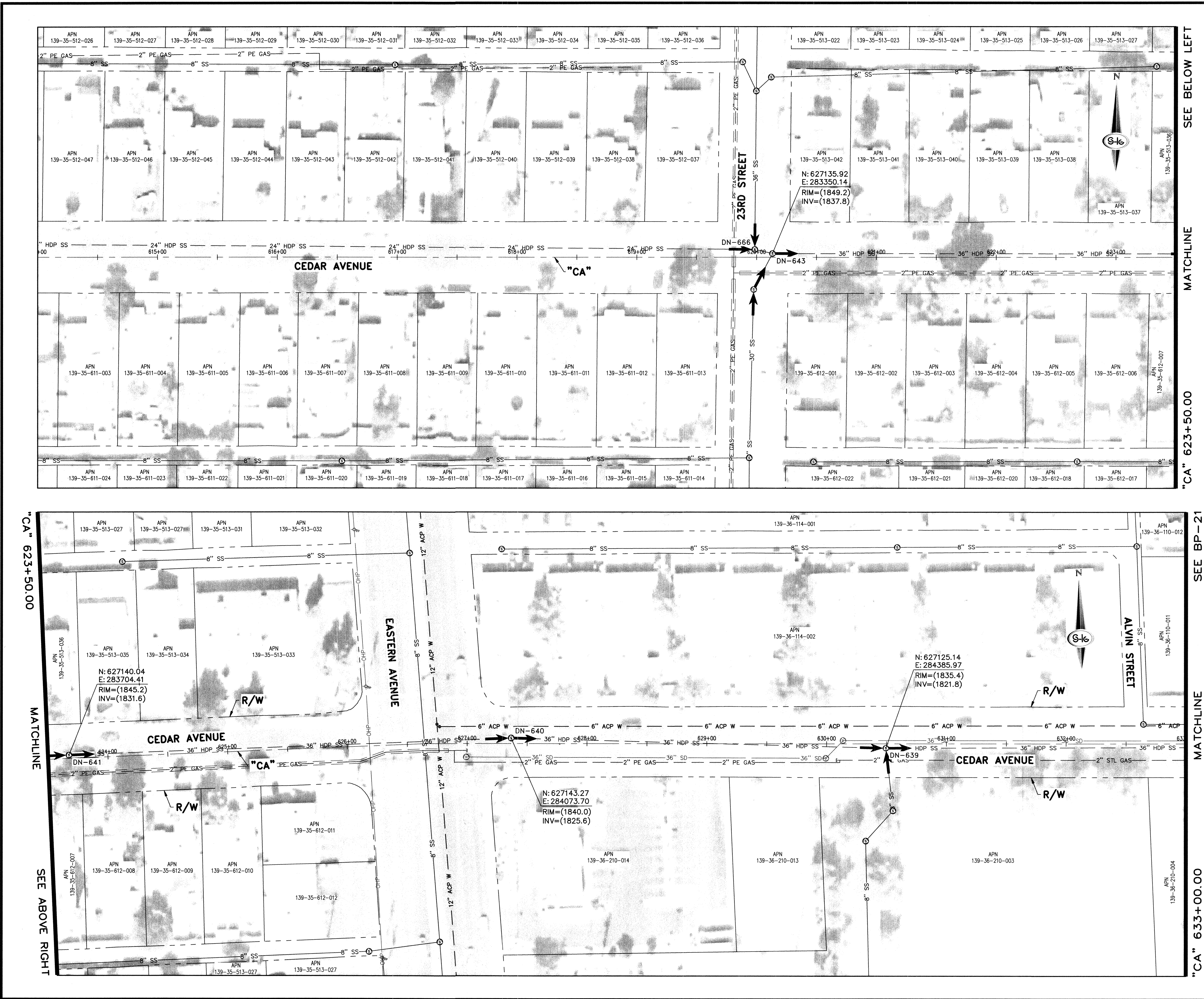
19TH STREET

"19TH" 783+50.00 TO "19TH" 793+00.00

Sheet
BP-19
55 of 59
DRAWING NO.
307V1063

PROFESSIONAL ENGINEER
RANDY W. CARROLL
Exp. 12/31/2014
CIVIL
No. 16131
MAY 14 2014

HANSEN NO. 46802 BID NO. 14-46802



SEE BELOW LEFT
MATCHLINE
"CA" 623+50.00
SEE BP-21
MATCHLINE
"CA" 633+00.00

CONSTRUCTION BYPASS NOTES:

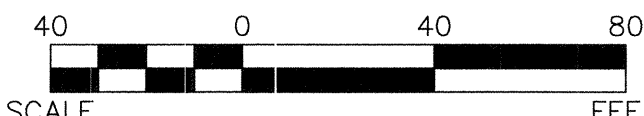
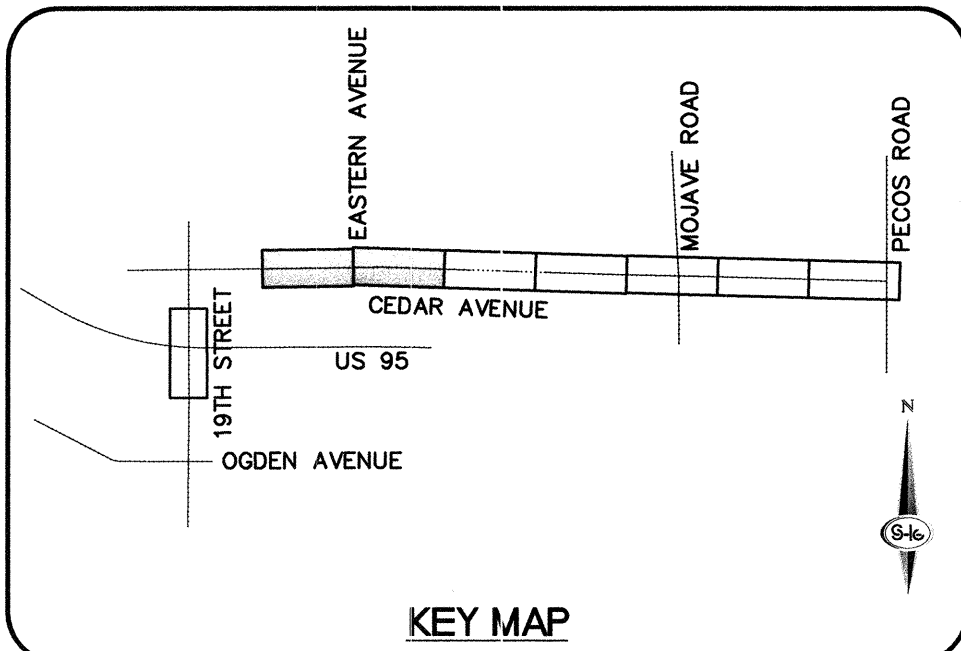
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LEGEND

- BYPASS PIPING, MAINTAIN PEDESTRIAN AND DRIVEWAY/ALLEY ACCESS AT ALL TIMES
- FLOW BYPASS ACCESS DETAIL SEE DETAIL 3 ON SHEET DT-01
- FLOW NUMBER, SEE ESTIMATED FLOW TABLE BELOW

APPROVED FOR CONSTRUCTION

David Leavitt 04/15/14
LVMWD ENGINEERING SERVICES MANAGER DATE
PROJECT NO. 121821

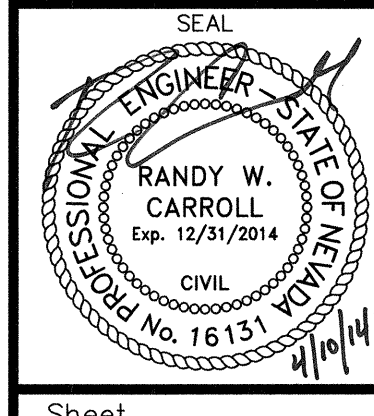


DEPARTMENT OF PUBLIC WORKS CAPITAL PROJECT MANAGEMENT

CITY ENGINEER: DAVID BOWERS, PE, PTOE
PROGRAM MANAGER: JEREMY LEAVITT, P.E.
DESIGNED BY: JSR
DRAWN BY: JAS
CHECKED BY: RWC

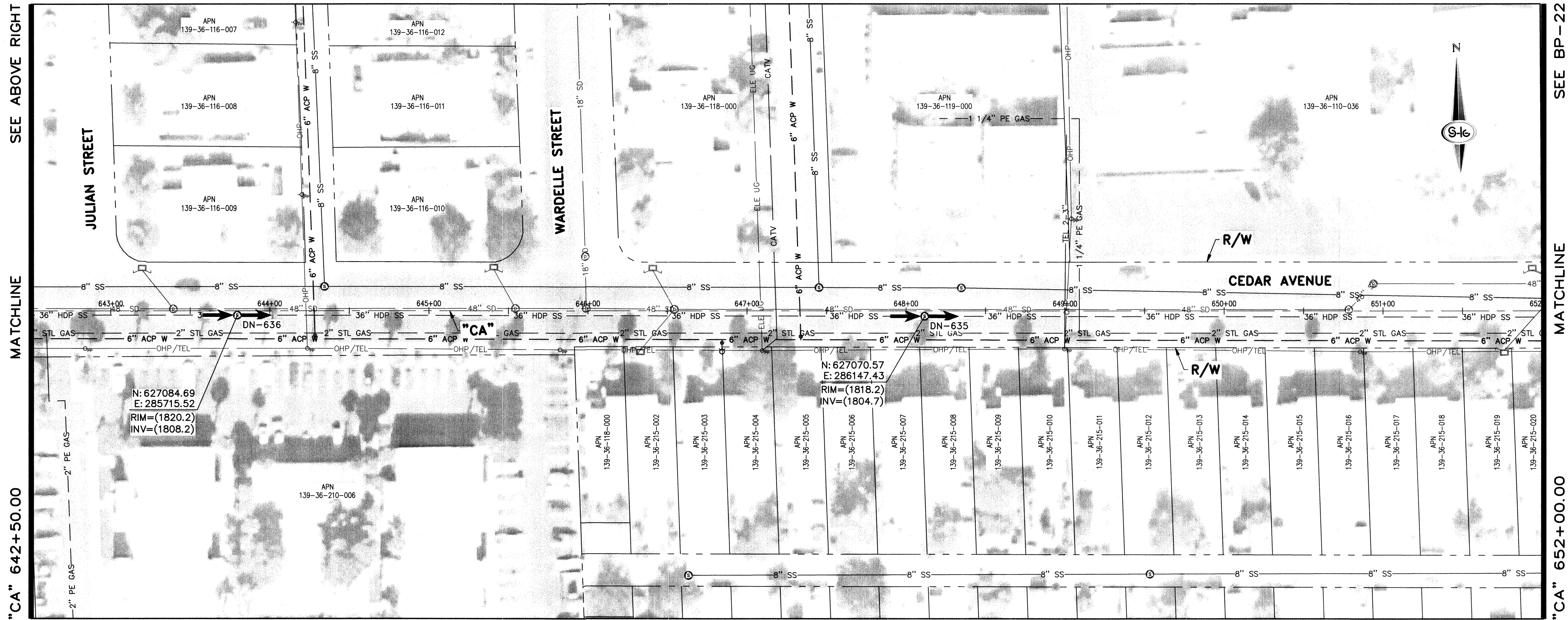
SANITARY SEWER REHABILITATION GROUP B

CEDAR AVENUE
"CA" 614+00.00 TO "CA" 633+00.00

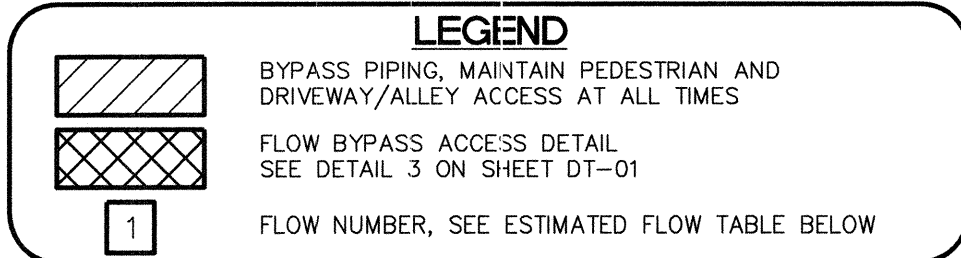


Sheet
BP-20
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DRAWING NO.
307V1063

REVISIONS	NO.	DATE	DESCRIPTION	APP'D.



- ### CONSTRUCTION BYPASS NOTES:
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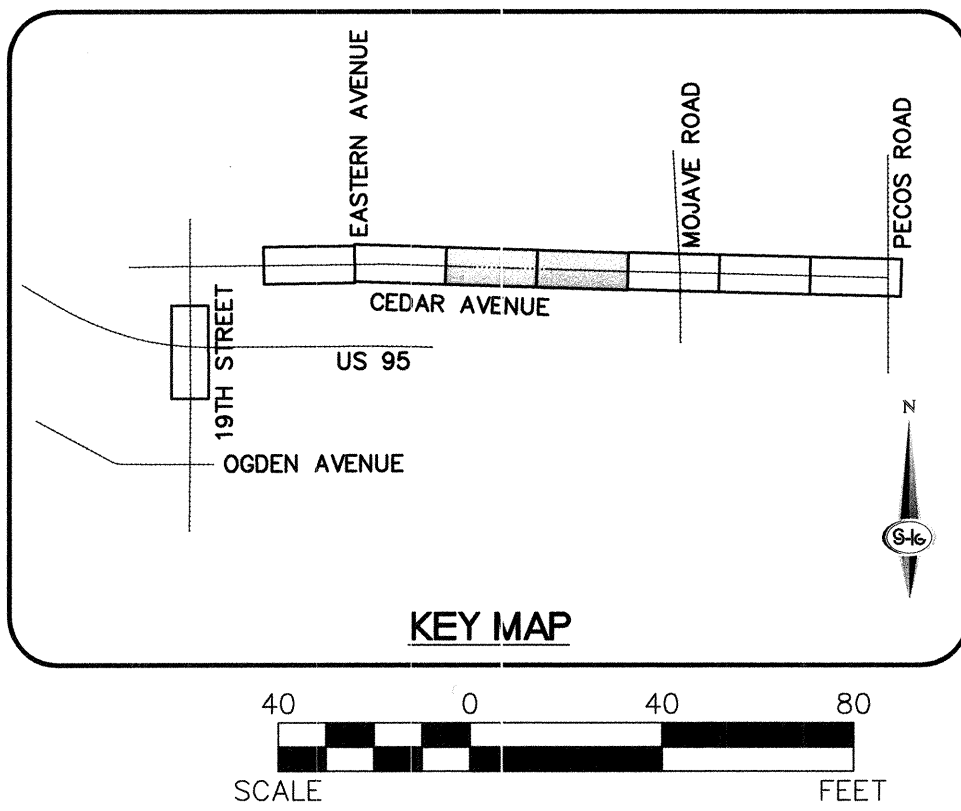
APPROVED FOR CONSTRUCTION

Overhead *04/15/14*

DATE

LVWD ENGINEERING SERVICES MANAGER

PROJECT NO. 121821



FAST

Call before you UnderGround.

1-702-432-5300

Call before you Dig

Call 811

1-702-227-2929

OR

1-800-227-2600

REVISIONS

NO.	DATE	DESCRIPTION	APP'D

DATE: 4/1/14

DEPARTMENT OF PUBLIC WORKS

CAPITAL PROJECT MANAGEMENT

CITY ENGINEER: DAVID BOMERS, PE, PTOE
PROGRAM MANAGER: JEREMY LEAVITT, P.E.
DESIGNED BY: JSR
DRAWN BY: JAS
CHECKED BY: RWC

SANITARY SEWER REHABILITATION GROUP B

CEDAR AVENUE

"CA" 633+00.00 TO "CA" 652+00.00

BP-21

57 of 59

307V1063

SEAL

RANDY W. CARROLL
Exp. 12/31/2014
CIVIL
No. 16131

Sheet

BP-21

57 of 59

307V1063

HANSEN NO. 48802

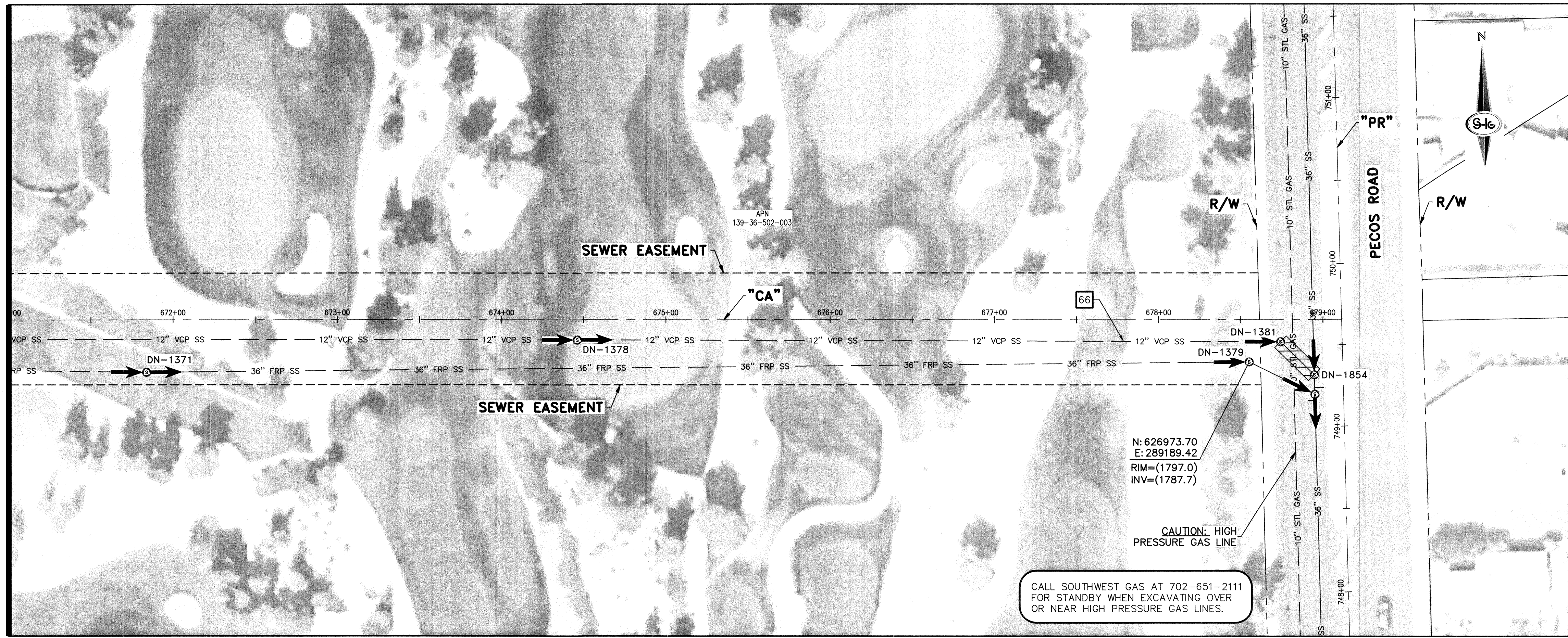
BID NO. 14-48802

SANITARY SEWER REHABILITATION GROUP B

SEE BP-22

MATCHLINE

"CA" 671+00.00



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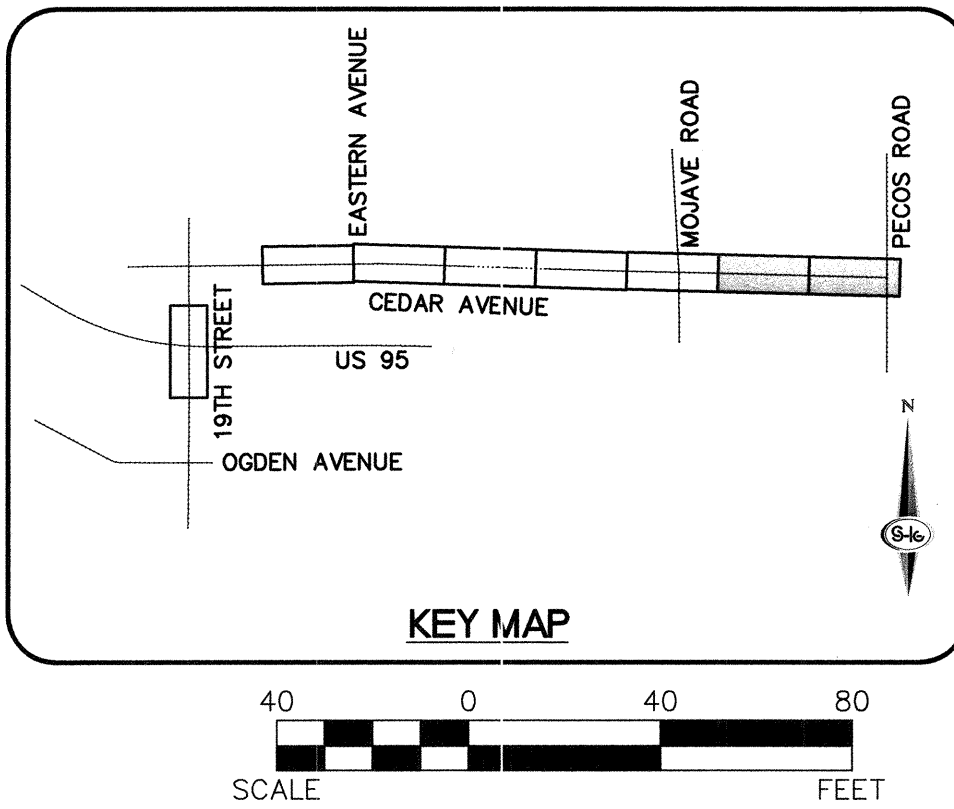
LEGEND

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- FLOW BYPASS ACCESS DETAIL SEE DETAIL 3 ON SHEET DT-01
- FLOW NUMBER, SEE ESTIMATED FLOW TABLE BELOW

*ESTIMATED SANITARY SEWER FLOWS

FLOW NO.	PIPE DIA	ADWF (MGD)	PEAK (MGD)	DESCRIPTION
66	12"	2.56	7.68	ESTIMATED FLOW

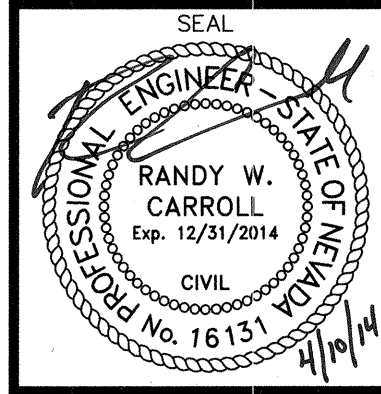
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APPROVED FOR CONSTRUCTION
Don Meade 04/15/14
LVVMD ENGINEERING SERVICES MANAGER
PROJECT NO. 121821
DATE

DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT
CITY ENGINEER: DAVID BOWERS, PE, PTOE
PROGRAM MANAGER: JEREMY LEAVITT, P.E.
DESIGNED BY: JSR
DRAWN BY: JAS
CHECKED BY: RWC
DATE: 4/1/14

TITLE: SANITARY SEWER REHABILITATION GROUP B
SHEET: CEDAR AVENUE
"CA" 671+00.00 TO "CA" 679+11.00



Sheet
BP-23
59 of 59
DRAWING NO.
307V1063

REVISIONS

NO. DATE DESCRIPTION APP'D
SANITARY SEWER REHABILITATION GROUP B