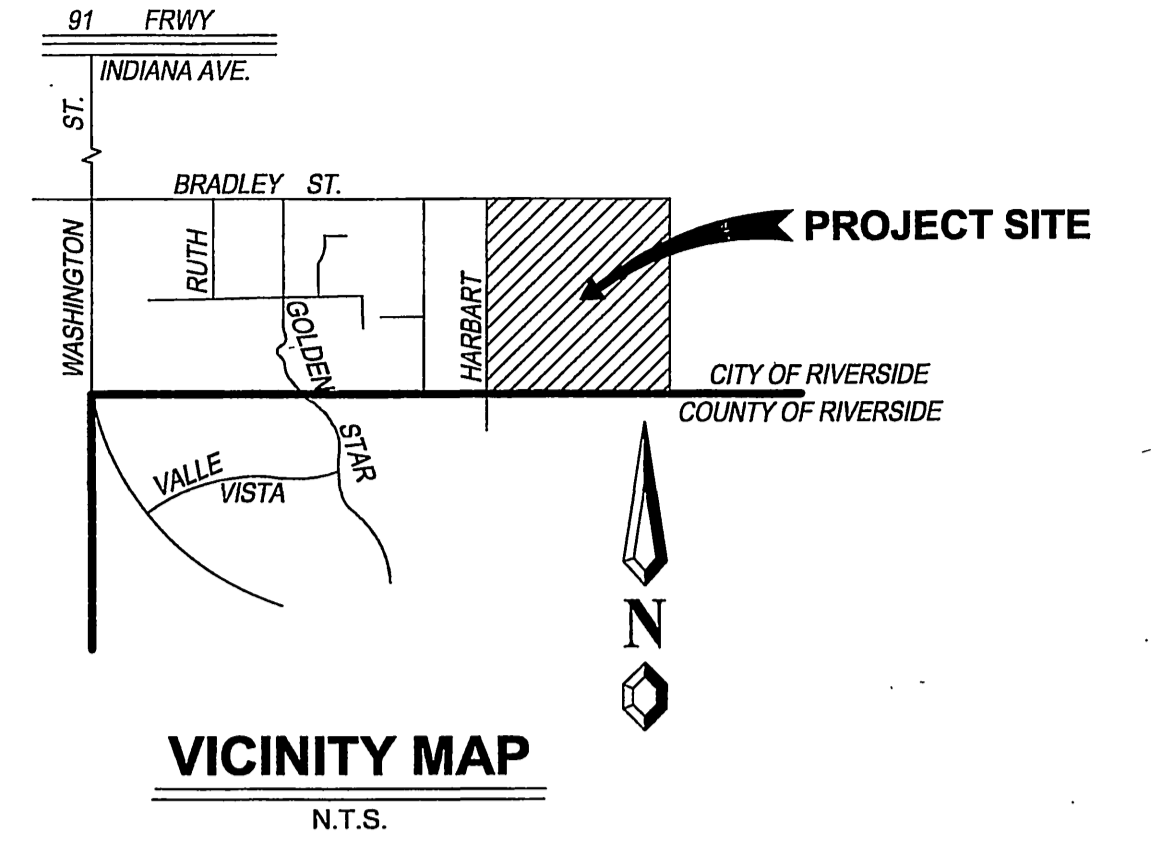


CITY OF RIVERSIDE, CALIFORNIA SEWER IMPROVEMENT PLANS FOR TRACT NO. 28907 & 28907-1



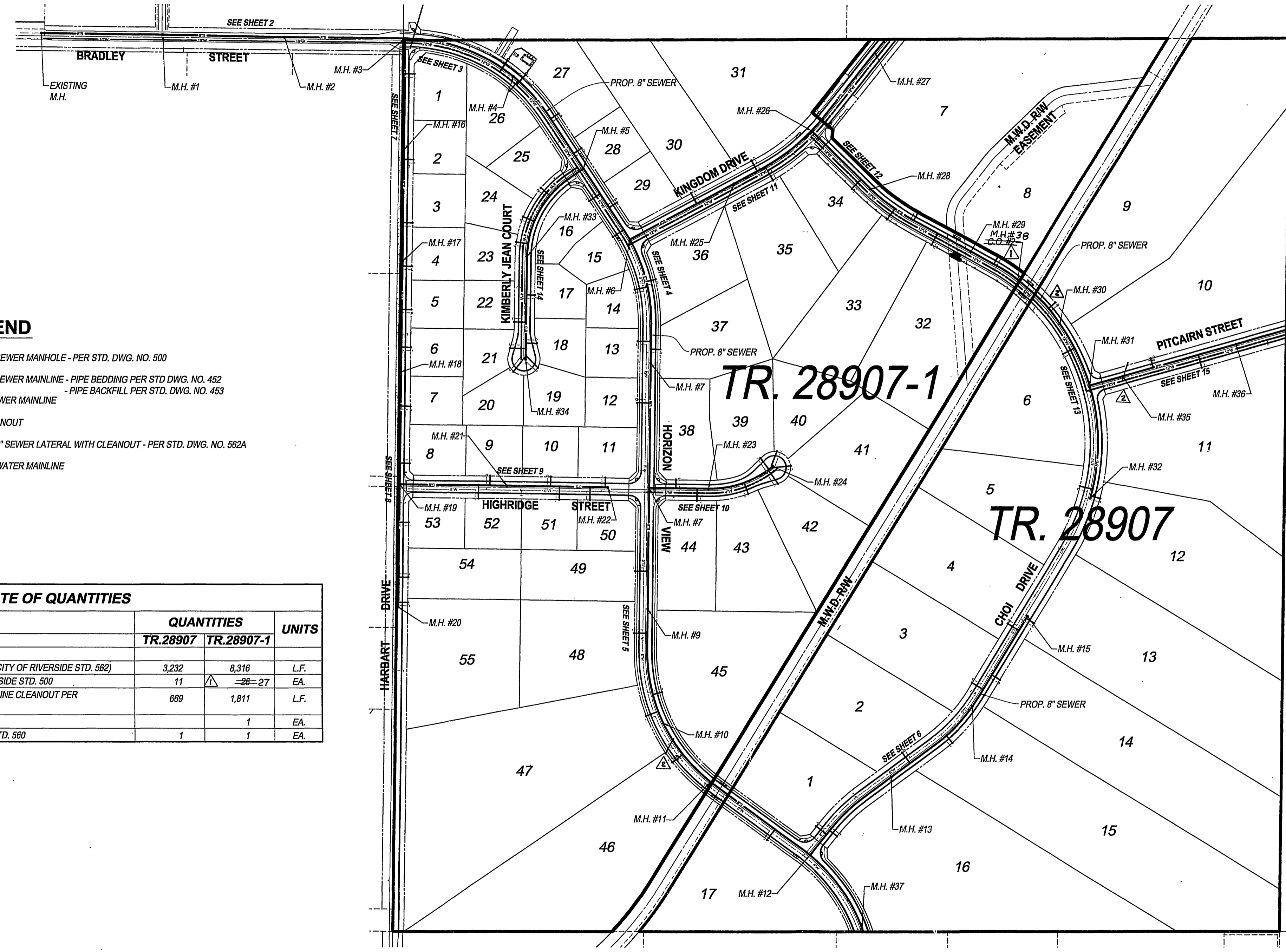
GENERAL NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT OF WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
3. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
4. THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
5. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
6. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE #1-800-227-2800, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
7. CONTRACTOR IS TO VERIFY EXISTING SEWER LOCATION AND ELEVATION PRIOR TO START OF CONSTRUCTION.
8. LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE OWNER. AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.
9. NO FINISHED FLOOR ELEVATION SHALL BE LESS THAN 6" ABOVE THE UPPER MANHOLE RIM ELEVATION OF THE SEWER LINE SEGMENT BEING CONNECTED TO, WITHOUT HAVING A PROPER BACKWATER VALVE INSTALLED IN THE LATERAL.
10. A PLUG SHALL BE INSTALLED AND WILL REMAIN IN PLACE WHERE THE NEW SEWER CONNECTS WITH THE EXISTING SEWER UNTIL THE NEW SEWER IS ACCEPTED BY THE CITY.
11. THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
12. NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-OF-WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT OR, A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.
13. THE CONTRACTOR SHALL COORDINATE TRENCHING FOR CABLE TELEVISION WITH OTHER TRENCHING WITHIN THE SUBDIVISION.

NOTICE TO CONTRACTOR

1. ACCORDING TO INFORMATION PROVIDED BY UNDERGROUND SERVICE ALERT (U.S.A.) DATED JULY 30, 2002, THE FOLLOWING ORGANIZATIONS ARE U.S.A. MEMBERS WITHIN THE PROJECT AREA:

| | |
|-----------------------------|-------------------|
| CHARTER COMMUNICATIONS | MEDIA ONE |
| PACIFIC BELL MOBILE SERVICE | PACIFIC BELL |
| QUESTAR LINE 90 COMPANY | CITY OF RIVERSIDE |
| THE GAS COMPANY | |
2. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS.
3. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
4. CALL UNDERGROUND SERVICE ALERT (U.S.A.) 1-800-422-4133 AT LEAST 48 HOURS PRIOR TO EXCAVATION.



INDEX MAP
SCALE: 1"=200'

SHEET INDEX

| SHEET NO. | DESCRIPTION |
|-----------|--------------------------------|
| 1 | TITLE SHEET, NOTES & INDEX MAP |
| 2-15 | SEWER IMPROVEMENT PLANS |

SEWER LEGEND

- PROPOSED SEWER MANHOLE - PER STD. DWG. NO. 500
- PROPOSED SEWER MAINLINE - PIPE BEDDING PER STD. DWG. NO. 452
- PIPE BACKFILL PER STD. DWG. NO. 453
- EXISTING SEWER MAINLINE
- SEWER CLEANOUT
-
- PROPOSED WATER MAINLINE

ESTIMATE OF QUANTITIES

| NO. | SEWER NOTES | QUANTITIES | | UNITS |
|-----|--|------------|------------|-------|
| | | TR.28907 | TR.28907-1 | |
| 1 | CONSTRUCT 8" VCP SEWER (BEDDING CASE I PER CITY OF RIVERSIDE STD. 562) | 3,232 | 8,316 | L.F. |
| 2 | CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500 | 11 | 26-27 | EA. |
| 3 | CONSTRUCT 4" SEWER LATERAL WITH PROPERTY LINE CLEANOUT PER CITY OF RIVERSIDE STD. 562A | 669 | 1,811 | L.F. |
| 4 | REMOVE DISK AND JOIN EXISTING SEWER | 1 | 1 | EA. |
| 5 | CONSTRUCT CLEANOUT PER CITY OF RIVERSIDE STD. 560 | 1 | 1 | EA. |

CITY OF RIVERSIDE
PUBLIC UTILITIES DEPARTMENT-ELECTRIC
OVERHEAD & UNDERGROUND

APPROVED BY: *[Signature]* DATE: *6/10/03*

CITY OF RIVERSIDE
WATER SYSTEM
(FOR SHTS. 1-15)

APPROVED BY: *[Signature]* DATE: *6/10/03*

BENCH MARK DESCRIPTION:

| | | | |
|---------------------|--------------------|---------------|-----------------------|
| POINT ID: GPS-69 | ELEVATION: 0 | ELEVATION: 0 | ELEVATION: 0 |
| ELEVATION: 1083.685 | DATE LVLD.: 0 | DATE LVLD.: 0 | DATE LVLD.: 0 |
| DATE LVLD.: 1998 | REFERENCE: LL45/69 | DATUM: 1929 | ADJUSTMENT YEAR: 1971 |

2ND ORDER POINT
DESCRIPTION:
G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991"
SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET
AND 3' SOUTH OF THE BOR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND
BRADLEY STREET.
(COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

CITY OF RIVERSIDE BUSINESS TAX CERTIFICATE No. 109886 EXP. 2/7/04

19 Spectrum Pointe Drive • Suite 609
Lake Forest, CA 92650
(949) 599-0870
(949) 599-0880 Fax
MAYNERS & ASSOCIATES
Civil Engineering, Inc.
PLANNING • ENGINEERING • SURVEYING

APPROVED BY: *[Signature]* DATE: *6/6/03*
R.C.E. No. *50318*

J.N. 02-0069-02 FOR: _____
DESIGNED BY: S.Z.G. DRAWN BY: S.Z.G. CHECKED BY: G.M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

| | | |
|---------------------------------|------------------------|---------------------|
| APPROVED BY: <i>[Signature]</i> | BY: <i>[Signature]</i> | DATE: <i>7/8/03</i> |
| PRINCIPAL ENGINEER | TRAFFIC DIVISION | |

DATE: *7/8/03*

SEWER PLAN & PROFILE
TRACT NO. 28907 & 28907-1
TITLE SHEET

SCALE: AS SHOWN

ACCOUNT No. _____
DRAWING NUMBER
S-1786
SHEET 1 OF 15

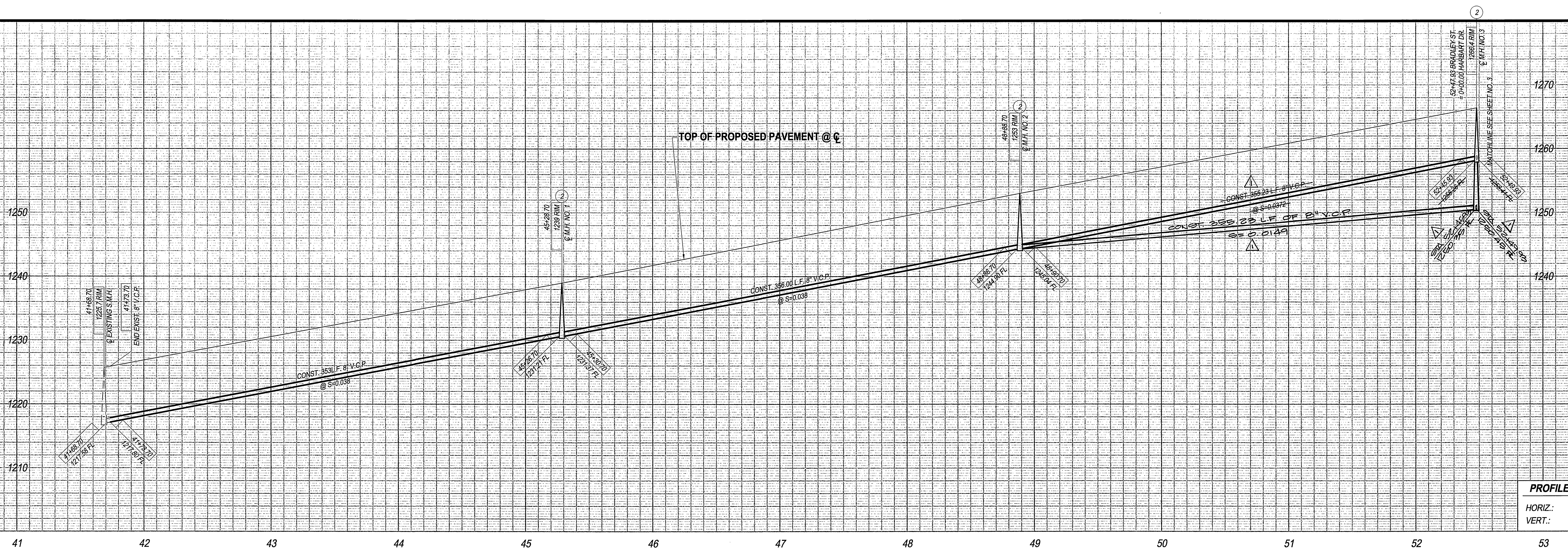
UNDERGROUND SERVICE ALERT

Call: TOLL FREE
1-800-227-2800
TWO WORKING DAYS
BEFORE YOU DIG

*CAUTION: Remember that the USA Center notifies only those utilities belonging to the center. There could be other utilities present at the work site. The center will inform you of those utilities that belong to the center.

REGISTERED PROFESSIONAL ENGINEER

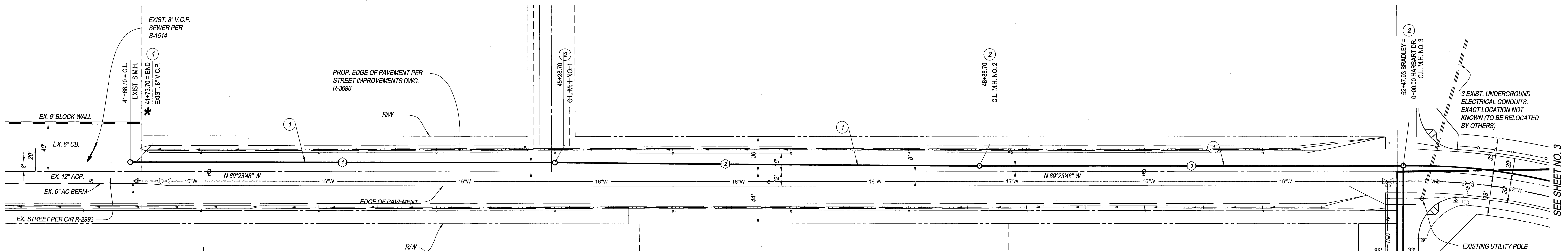
GARY A. MARTIN
No. 50318
Exp. 03/05/05
CIVIL
STATE OF CALIFORNIA



PROFILE SCALES

HORIZ.: 1" = 40'

VERT.: 1" = 8'



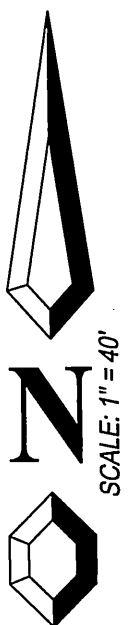
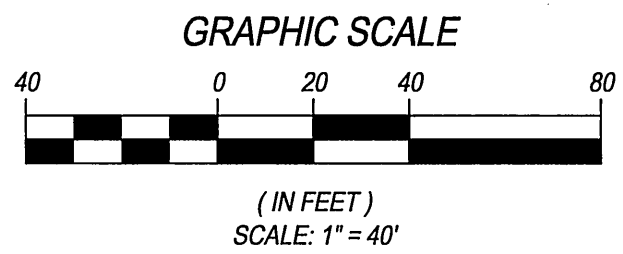
*** NOTE:**
CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF EXISTING UTILITY PRIOR TO THE START OF ANY CONSTRUCTION.

BRADLEY STREET

- CONSTRUCTION NOTES:**
- 1 CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE I PER CITY OF RIVERSIDE STD. 452)
 - 2 CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
 - 4 REMOVE DISK AND JOIN EXISTING SEWER

SEWER DATA TABLE

| MARK | BEARING/Delta | RADIUS | LENGTH | TANGENT |
|------|---------------|--------|--------|---------|
| 1 | N 89°23'48" W | | 353.00 | |
| 2 | N 88°55'09" W | | 356.00 | |
| 3 | N 89°23'48" W | | 355.23 | |



UNDERGROUND SERVICE ALERT

Call-Toll FREE
1-800-227-2600

TWO WORKING DAYS BEFORE YOU DIG



BENCH MARK DESCRIPTION:

POINT ID: GPS-69
ELEVATION: 1083.685
DATE LVLD: 1998
REFERENCE: LL45/69
DATUM: 1929
ADJUSTMENT YEAR: 1971

2ND ORDER POINT DESCRIPTION:
G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991" SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET AND 3' SOUTH OF THE BCR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND BRADLEY STREET.
(COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

19 Spectrum Pointe Drive • Suite 609
Lake Forest, CA 92630
(949) 599-0870
(949) 599-0880 Fax

MAYERS & ASSOCIATES
Civil Engineering, Inc.
PLANNING • ENGINEERING • SURVEYING

APPROVED BY: *[Signature]* DATE: 6/6/03
R.C.E. No. 50318

J.N. 02-0069-02 FOR:

REV. ELEV. M.H. NO. 3
REVISIONS
APPR. DATE

DESIGNED BY: S.Z.G. DRAWN BY: S.Z.G. CHECKED BY: G.M.

**CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT**

APPROVED BY: *[Signature]* BY: *[Signature]* DATE: 7/8/03

PRINCIPAL ENGINEER
TRAFFIC DIVISION

**SEWER PLAN & PROFILE
TRACT NO. 28907-1
BRADLEY STREET**

STA. 41+78.70 TO STA. 52+47.93

SCALE: AS SHOWN

ACCOUNT No.
DRAWING NUMBER
S-1786

SHEET 2 OF 15



PLANS REVISED BY:

adkan engineers
REGISTERED PROFESSIONAL ENGINEER
No. 53390
Exp. 6-30-07
CIVIL
STATE OF CALIFORNIA

ENGINEERING • PLANNING • SURVEYING
6030 AVENUE 28, RIVERSIDE, CA 92504
TEL: (951) 506-2244 FAX: (951) 506-2244

DATE: 7/8/03

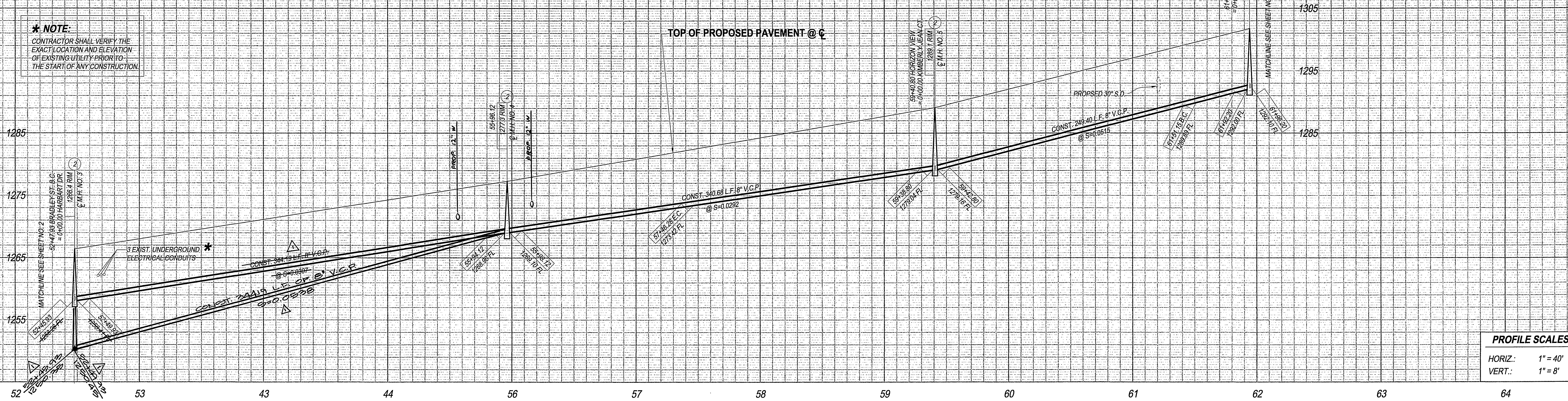
INDEXED 8-04-03 lfh

HARBART DR.
SEE SHEET NO. 7

SEE SHEET NO. 3

Job No. 02-0069-02 Bin No. XXX Doc No. XXX City of Riverside - Sewer Plan & Profile

*** NOTE:**
CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF EXISTING UTILITY PRIOR TO THE START OF ANY CONSTRUCTION.

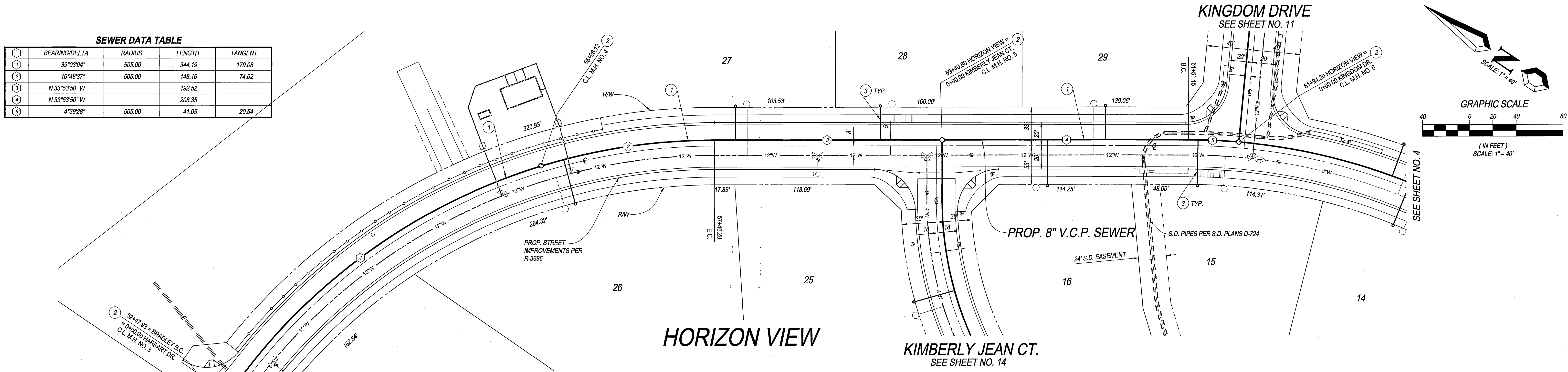
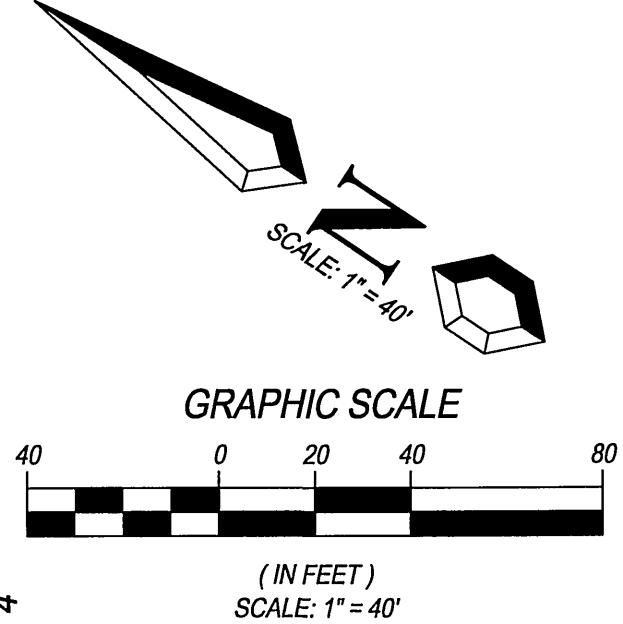


PROFILE SCALES

| | |
|---------|----------|
| HORIZ.: | 1" = 40' |
| VERT.: | 1" = 8' |

SEWER DATA TABLE

| BEARING/DELTA | RADIUS | LENGTH | TANGENT |
|---------------|--------|--------|---------|
| 39°03'04" | 505.00 | 344.19 | 179.08 |
| 16°48'37" | 505.00 | 148.16 | 74.62 |
| N 33°53'50" W | | 192.52 | |
| N 33°53'50" W | | 208.35 | |
| 4°39'28" | 505.00 | 41.05 | 20.54 |



HORIZON VIEW

- CONSTRUCTION NOTES:**
- CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE I PER CITY OF RIVERSIDE STD. 452)
 - CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
 - CONSTRUCT 4" SEWER LATERAL WITH CLEAN OUT PER CITY OF RIVERSIDE STD. 562A

UNDERGROUND SERVICE ALERT
Call/Toll FREE
1-800-227-2800
TWO WORKING DAYS BEFORE YOU DIG



BENCH MARK DESCRIPTION:
POINT ID: GPS-69
ELEVATION: 1083.685
DATE LVLD: 1998
REFERENCE: LL45/69
DATUM: 1929
ADJUSTMENT YEAR: 1971
DESCRIPTION:
G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991" SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET AND 3' SOUTH OF THE BCR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND BRADLEY STREET.
(COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

19 Spectrum Pointe Drive • Suite 609
Lake Forest, CA 92630
(949) 599-0870
(949) 599-0850 Fax
MAYERS & ASSOCIATES
Civil Engineering, Inc.
PLANNING • ENGINEERING • SURVEYING
APPROVED BY: [Signature] DATE: 6/6/03
B.C.E. No. 50318
J.N. 02-0069-02 FOR:

DESIGNED BY: S.Z.G. DRAWN BY: S.Z.G. CHECKED BY: G.M.
REVISIONS: 1/2 10/30/03
APPR. DATE

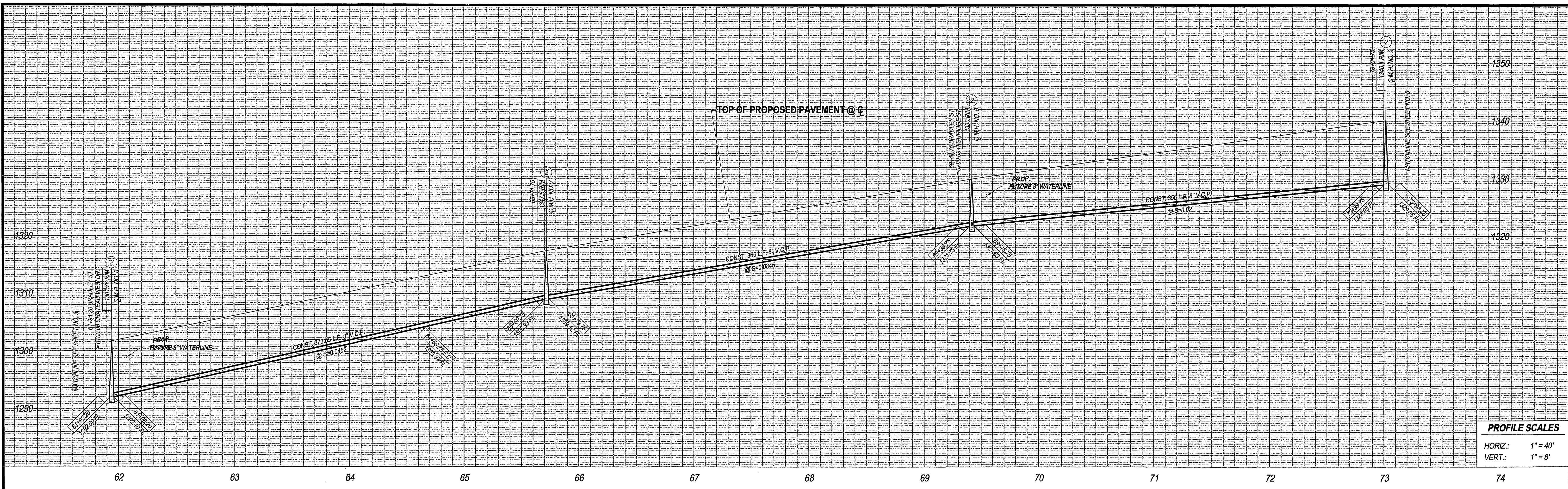
CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY: [Signature] BY: [Signature] DATE: 7/8/03
PRINCIPAL ENGINEER
TRAFFIC DIVISION



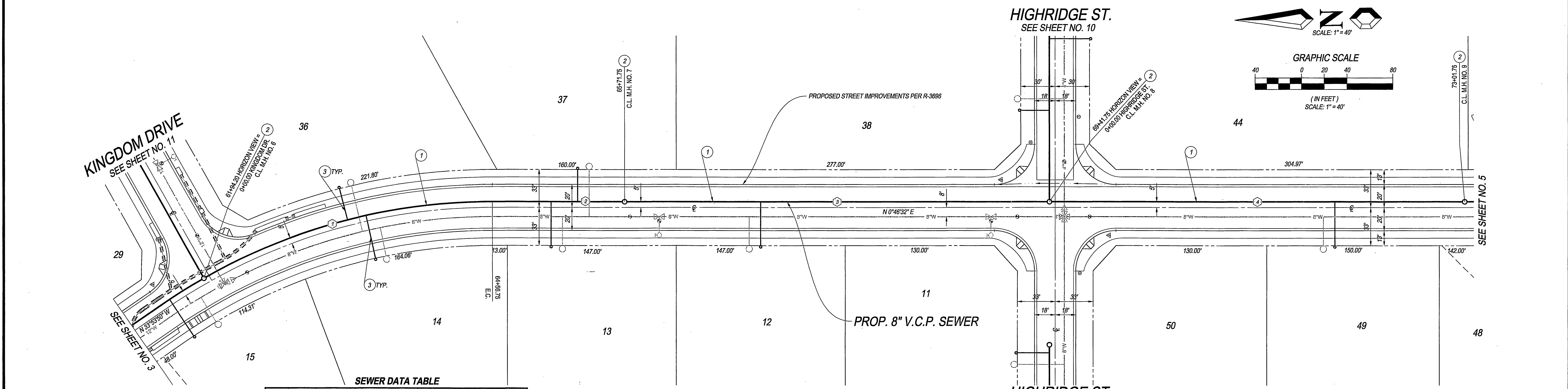
PLANS REVISED BY:
adkan ENGINEERS
ENGINEERING • PLANNING • SURVEYING
6630 AUBURN DR. RIVERSIDE, CA 92504
TEL: (909) 948-0241 FAX: (909) 948-0244
DATE: 10/20/03
UNDER THE SUPERVISION OF [Signature]

SEWER PLAN & PROFILE
TRACT NO. 29807-1
HORIZON VIEW
STA. 52+47.93 TO 61+94.18
SCALE: AS SHOWN

ACCOUNT No.
DRAWING NUMBER
S-1786
SHEET 3 OF 15



PROFILE SCALES
 HORIZ: 1" = 40'
 VERT: 1" = 8'



SEWER DATA TABLE

| MARK | BEARING/DELTA | RADIUS | LENGTH | TANGENT |
|------|---------------|--------|--------|---------|
| 1 | 29°33'40" | 505.00 | 280.55 | 133.24 |
| 2 | N 0°46'32" E | | 113.00 | |
| 3 | N 0°46'32" E | | 366.00 | |
| 4 | N 0°46'32" E | | 356.00 | |

- CONSTRUCTION NOTES:**
- 1 CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE I PER CITY OF RIVERSIDE STD. 452)
 - 2 CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
 - 3 CONSTRUCT 4" SEWER LATERAL WITH CLEAN OUT PER CITY OF RIVERSIDE STD. 582A

UNDERGROUND SERVICE ALERT
 Call: Toll FREE 1-800-227-2600
 TWO WORKING DAYS BEFORE YOU DIG
 *CAUTION: Remember that the USA Center notifies only those utilities belonging to the center. There could be other utilities present at the work site. The center will inform you of what it will notify.



BENCH MARK DESCRIPTION:
 POINT ID: GPS-69
 ELEVATION: 1083.685
 DATE LVL'D: 1998
 REFERENCE: LL45/69
 DATUM: 1929
 ADJUSTMENT YEAR: 1971
 2ND ORDER POINT
 DESCRIPTION:
 G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991"
 SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET AND 3' SOUTH OF THE BOR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND BRADLEY STREET.
 (COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

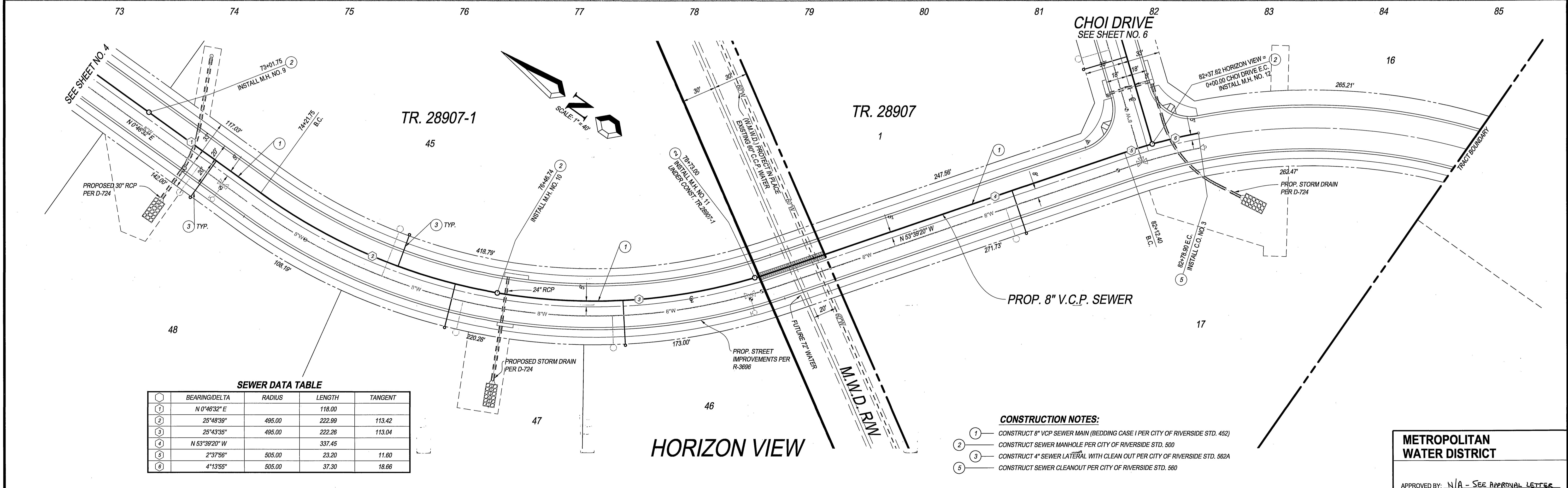
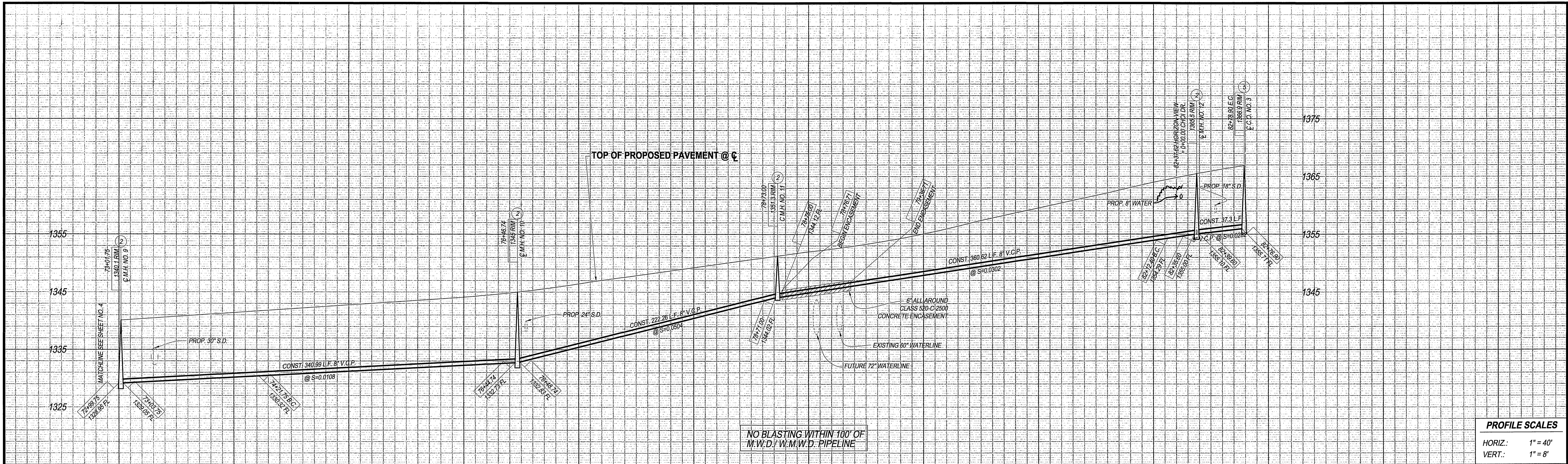
19 Spectrum Pointe Drive • Suite 609
 Lake Forest, CA 92630
 (949) 599-0870
 (949) 599-0880 Fax
YERS & ASSOCIATES
 Civil Engineering, Inc.
 PLANNING • ENGINEERING • SURVEYING
 APPROVED BY: *[Signature]* DATE: 6/6/03
 R.C.E. No. 50318
 J.N. 02-0069-02 FOR: DESIGNED BY: S.Z.G. DRAWN BY: S.Z.G. CHECKED BY: G.M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
 APPROVED BY: *[Signature]* BY DATE: *[Signature]* DATE: 7/8/03
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 CITY ENGINEER

SEWER PLAN & PROFILE
TRACT NO. 28907-1
HORIZON VIEW
 STA. 61+94.18 + 73+01.73
 SCALE: AS SHOWN

ACCOUNT No. **S-1786**
 DRAWING NUMBER
 SHEET 4 OF 15

INDEXED 8-04-03 lft



SEWER DATA TABLE

| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT |
|-----|---------------|--------|--------|---------|
| 1 | N 0°46'32" E | | 118.00 | |
| 2 | 25°48'39" | 495.00 | 222.99 | 113.42 |
| 3 | 25°43'35" | 495.00 | 222.26 | 113.04 |
| 4 | N 53°39'20" W | | 337.45 | |
| 5 | 2°37'56" | 505.00 | 23.20 | 11.60 |
| 6 | 4°13'55" | 505.00 | 37.30 | 18.66 |

- CONSTRUCTION NOTES:**
1. CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE I PER CITY OF RIVERSIDE STD. 452)
 2. CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
 3. CONSTRUCT 4" SEWER LATERAL WITH CLEAN OUT PER CITY OF RIVERSIDE STD. 562A
 4. CONSTRUCT SEWER CLEANOUT PER CITY OF RIVERSIDE STD. 560

METROPOLITAN WATER DISTRICT

APPROVED BY: *N/A - SEE APPROVAL LETTER FROM MWD DATED 6/16/03*

DATE: _____

UNDERGROUND SERVICE ALERT

Call Toll FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

*CAUTION: Remember that the USA Center notifies only those utilities belonging to the center. There could be other utilities present at the work site. The center will inform you of whom they will notify.



WESTERN MUNICIPAL WATER DISTRICT

APPROVED BY: *[Signature]*

DATE: *6/16/03*

BENCHMARK DESCRIPTION:

POINT ID: GPS-69
ELEVATION: 1083.685
DATE LVLD: 1998
REFERENCE: LL4569
DATUM: 1929
ADJUSTMENT YEAR: 1971

DESCRIPTION:
G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991" SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET AND 3' SOUTH OF THE BCR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND BRADLEY STREET.
(COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

MAYERS & ASSOCIATES
Civil Engineering, Inc.
PLANNING • ENGINEERING • SURVEYING

APPROVED BY: *[Signature]* DATE: *6/16/03*
R.C.E. No. *50318*

J.N. 02-0069-02 FOR: _____

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

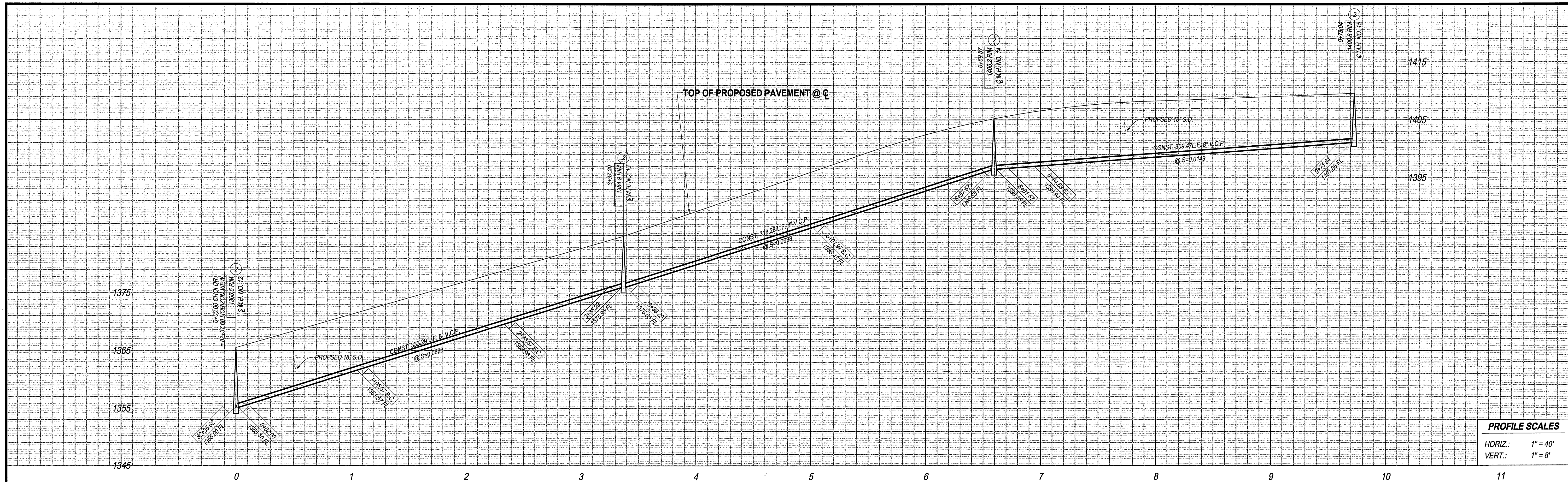
| | | | |
|--------------------|--------------------|---------------|--------------------|
| APPROVED BY | BY | DATE | APPROVED BY |
| PRINCIPAL ENGINEER | <i>[Signature]</i> | <i>7/1/03</i> | <i>[Signature]</i> |
| PARK DEPARTMENT | | | |
| TRAFFIC DIVISION | | | |

DATE: *7/1/03*

SEWER PLAN & PROFILE
TRACT NO. 28907 & 28907-1
INTERIM CONDITION
HORIZON VIEW
STA. 73+01.73 TO STA. 85+12.32

SCALE: AS SHOWN

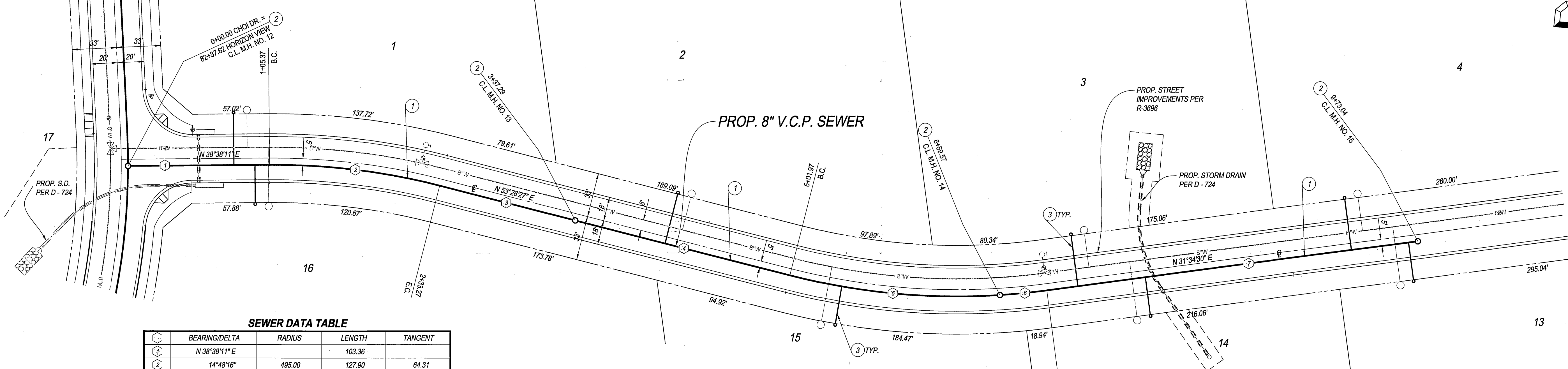
ACCOUNT No. _____
DRAWING NUMBER
S-1786
SHEET 5A OF 15



PROFILE SCALES

| | |
|---------|----------|
| HORIZ.: | 1" = 40' |
| VERT.: | 1" = 8' |

HORIZON VIEW
SEE SHEET NO. 5



SEWER DATA TABLE

| STATION | BEARING/Delta | RADIUS | LENGTH | TANGENT |
|---------|---------------|--------|--------|---------|
| 1 | N 38°38'11" E | | 103.36 | |
| 2 | 14°48'16" | 495.00 | 127.90 | 64.31 |
| 3 | N 53°26'27" E | | 102.03 | |
| 4 | N 53°26'27" E | | 162.67 | |
| 5 | 17°39'18" | 505.00 | 155.61 | 78.43 |
| 6 | 3°45'25" | 505.00 | 33.11 | 16.56 |
| 7 | N 31°34'30" E | | 276.36 | |

- CONSTRUCTION NOTES:**
- 1 CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE I PER CITY OF RIVERSIDE STD. 452)
 - 2 CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
 - 3 CONSTRUCT 4" SEWER LATERAL WITH CLEAN OUT PER CITY OF RIVERSIDE STD. 562A

UNDERGROUND SERVICE ALERT
Call: Toll FREE
1-800-227-2600
TWO WORKING DAYS
BEFORE YOU DIG



BENCH MARK DESCRIPTION:

POINT ID: GPS-69
ELEVATION: 1083.685
DATE LVLD: 1998
REFERENCE: LL45/69
DATUM: 1929
ADJUSTMENT YEAR: 1971

2ND ORDER POINT
DESCRIPTION:
G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991"
SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET
AND 3' SOUTH OF THE B.C. AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND
BRADLEY STREET.
(COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

19 Spectrum Points Drive • Suite 609
Lake Forest, CA 92630
(949) 399-0870
(949) 399-0880 Fax

MAYERS & ASSOCIATES
Civil Engineering, Inc.
PLANNING • ENGINEERING • SURVEYING

APPROVED BY: *[Signature]* DATE: 6/6/03
(R.C.E. No. 50318)

J.N. 02-0069-02 FOR: _____

| MARK | REVISIONS | APPR. | DATE |
|------|-----------|-------|------|
| | | | |
| | | | |

DESIGNED BY: S.Z.G. DRAWN BY: S.Z.G. CHECKED BY: G.M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

| | | | |
|--------------------|--------------------|--------|--------------------|
| APPROVED BY | BY | DATE | APPROVED BY |
| PRINCIPAL ENGINEER | <i>[Signature]</i> | 7/8/03 | <i>[Signature]</i> |
| PARK DEPARTMENT | | | |
| TRAFFIC DIVISION | | | |

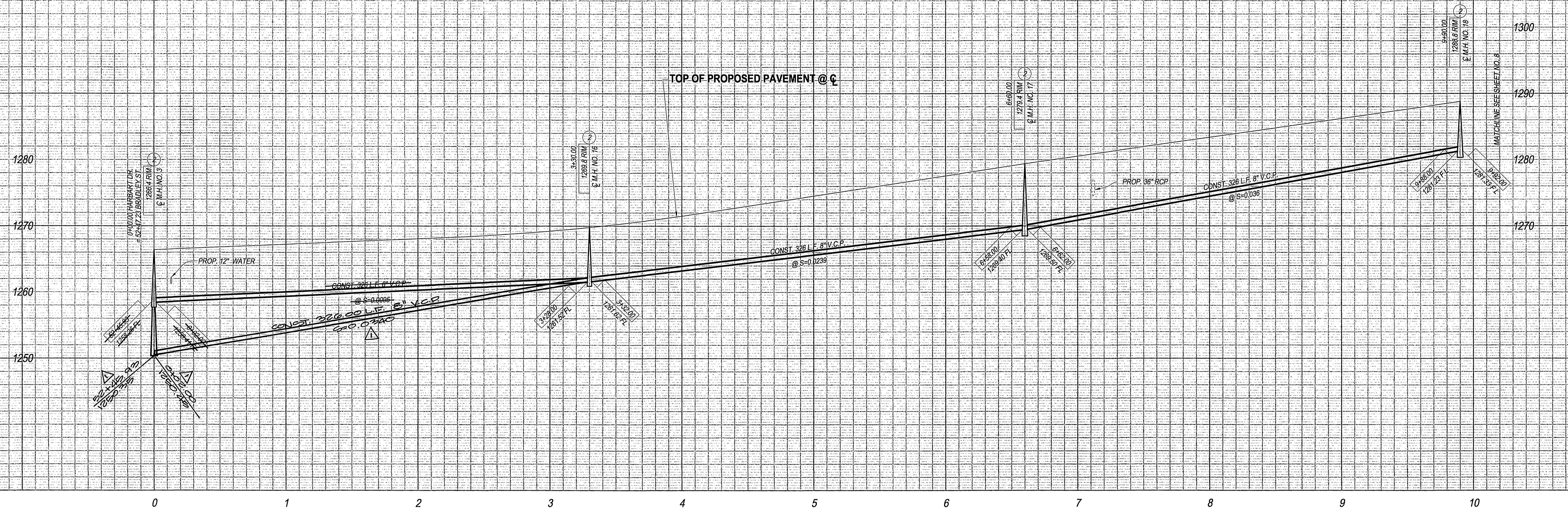
DATE: 7/8/03

INDEXED 8-04-03 LTH

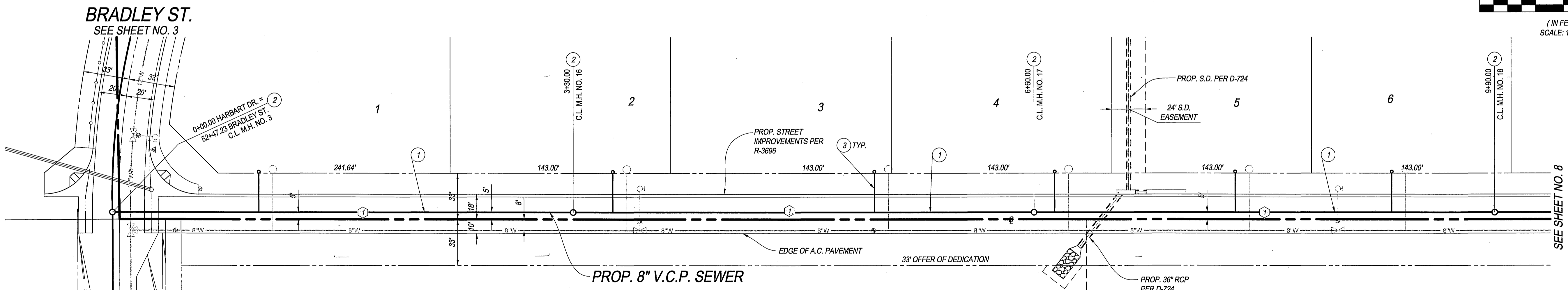
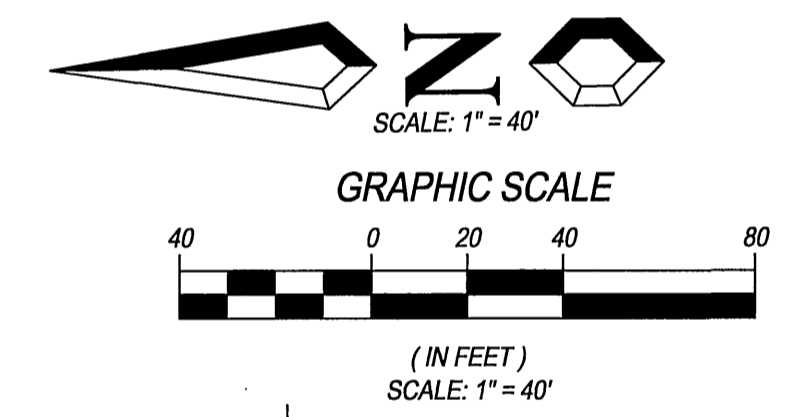
SEWER PLAN & PROFILE
TRACT NO. 28907
CHOI DRIVE
STA. 0+00 TO STA. 9+99.57

SCALE: AS SHOWN

ACCOUNT No. _____
DRAWING NUMBER
S-1786
SHEET 6 OF 15



PROFILE SCALES
 HORIZ.: 1" = 40'
 VERT.: 1" = 8'



BRADLEY ST.
SEE SHEET NO. 3

SEE SHEET NO. 2

SEWER DATA TABLE

| BEARING/Delta | RADIUS | LENGTH | TANGENT |
|---------------|--------|--------|---------|
| N 0°46'32" E | | 326.00 | |

- CONSTRUCTION NOTES:**
- 1. CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE 1 PER CITY OF RIVERSIDE STD. 452)
 - 2. CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
 - 3. CONSTRUCT 4" SEWER LATERAL WITH CLEAN OUT PER CITY OF RIVERSIDE STD. 562A



PLANS REVISED BY:

adkan
ENGINEERS
 ENGINEERING • PLANNING • SURVEYING
 6000 AIRPORT DR. RIVERSIDE, CA 92504
 TEL: (909) 940-0941 FAX: (909) 940-0941
 DATE: 10/28/03
 UNDER THE SUPERVISION OF: [Signature]

UNDERGROUND SERVICE ALERT
 Call-Toll FREE
 1-800-227-2600
 TWO WORKING DAYS
 BEFORE YOU DIG



CITY OF RIVERSIDE
ELECTRIC DEPARTMENT
 Public Utility Dept. Chief
 Approved By: [Signature]
 DATE: 6/10/03

BENCH MARK DESCRIPTION:
 POINT ID: GPS-69
 ELEVATION: 1083.685
 DATE LVLD: 1988
 REFERENCE: LL45/69
 DATUM: 1929
 ADJUSTMENT YEAR: 1971
 2ND ORDER POINT
 DESCRIPTION:
 G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991"
 SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET
 AND 3' SOUTH OF THE BCR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND
 BRADLEY STREET.
 (COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

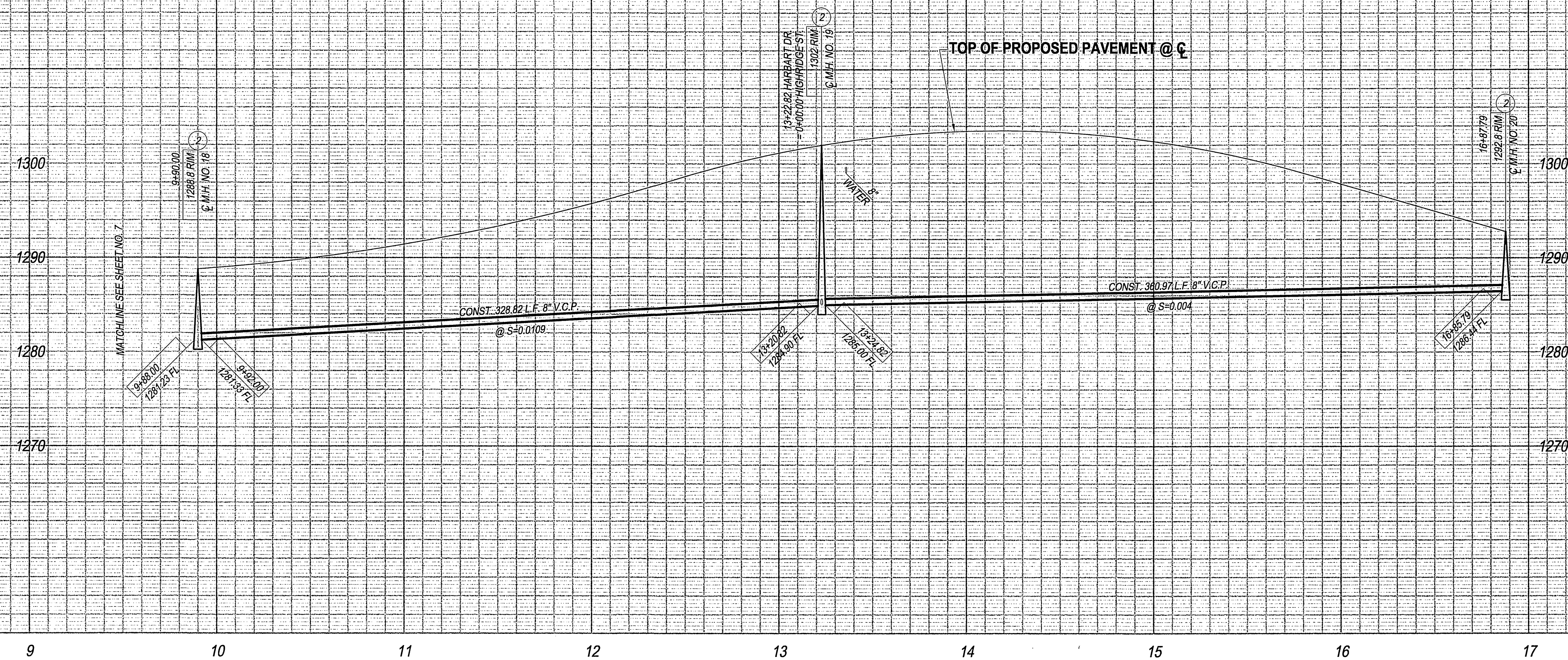
19 Spectrum Pointe Drive • Suite 609
 Lake Forest, CA 92630
 (949) 599-0870
 (949) 599-0880 Fax
MAYERS & ASSOCIATES
 Civil Engineering, Inc.
 PLANNING • ENGINEERING • SURVEYING
 APPROVED BY: [Signature]
 DATE: 6/6/03
 G.C.E. No. 50318
 J.N. 02-0069-02 FOR:

REV. ELEV. M.H. NO. 3
 DESIGNED BY: S.Z.G. DRAWN BY: S.Z.G. CHECKED BY: G.M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature]
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 DATE: 7/8/03

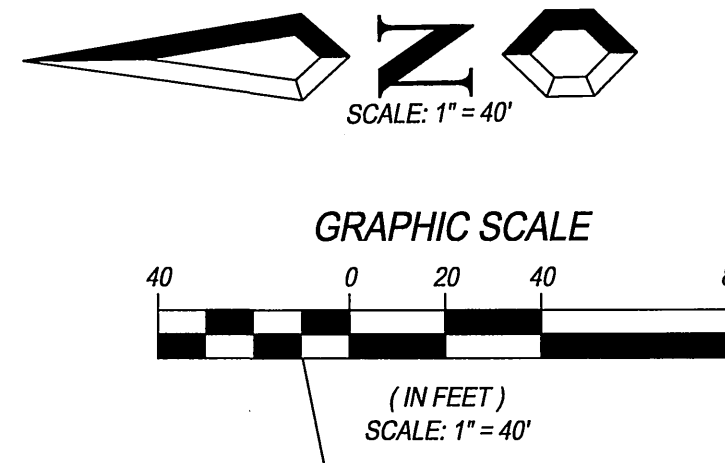
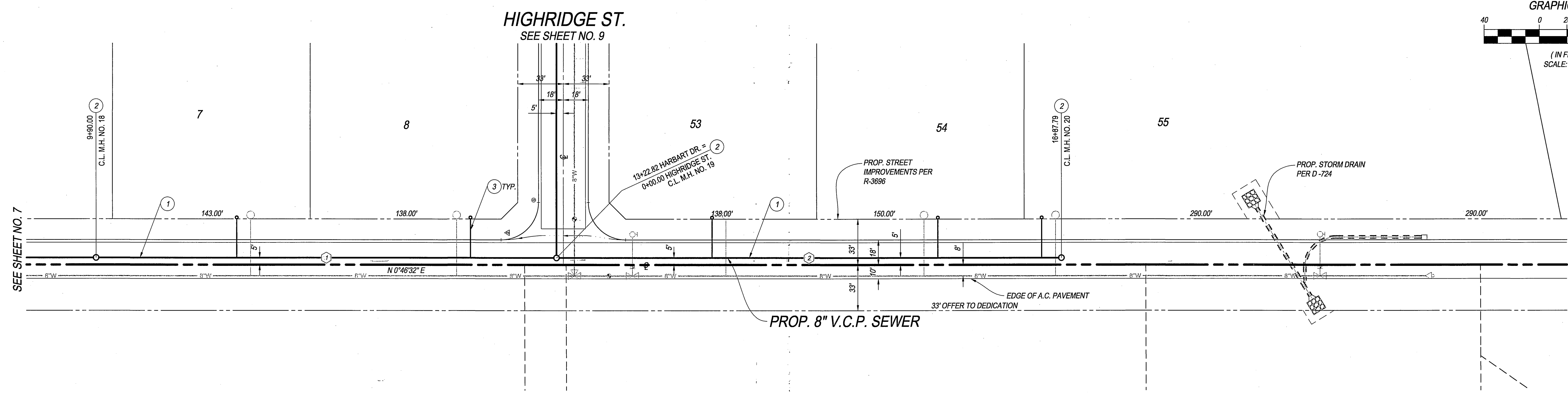
SEWER PLAN & PROFILE
TRACT NO. 28907-1
HARBART DRIVE
 STA. 0+00 TO 9+90
 SCALE: AS SHOWN

ACCOUNT No.
 DRAWING NUMBER
S-1786
 SHEET 7 OF 15



PROFILE SCALES
 HORIZ.: 1" = 40'
 VERT.: 1" = 8'

9 10 11 12 13 14 15 16 17



SEWER DATA TABLE

| BEARING/Delta | RADIUS | LENGTH | TANGENT |
|----------------|--------|--------|---------|
| 1 N 0°46'32" E | 328.82 | | |
| 2 N 0°46'32" E | 360.97 | | |

- CONSTRUCTION NOTES:**
- 1 CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE I PER CITY OF RIVERSIDE STD. 452)
 - 2 CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
 - 3 CONSTRUCT 4" SEWER LATERAL WITH CLEAN OUT PER CITY OF RIVERSIDE STD. 562A

HARBART DRIVE

UNDERGROUND SERVICE ALERT
 Call: Toll FREE 1-800-227-2600
 TWO WORKING DAYS BEFORE YOU DIG
 *CAUTION: Remember that the USA Center notifies only those utilities belonging to the center. There could be other utilities present at the work site. The center will inform you of whom they will notify.



BENCH MARK DESCRIPTION:
 POINT ID: GPS-69
 ELEVATION: 1083.685
 DATE LVLD: 1998
 REFERENCE: LL45/69
 DATUM: 1929
 ADJUSTMENT YEAR: 1971
 2ND ORDER POINT
 DESCRIPTION:
 G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991" SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET AND 3' SOUTH OF THE BCR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND BRADLEY STREET.
 (COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

MAYERS & ASSOCIATES
 Civil Engineering, Inc.
 PLANNING • ENGINEERING • SURVEYING
 APPROVED BY: [Signature] DATE: 6/6/03
 J.N. 02-0069-02 FOR: [Signature]

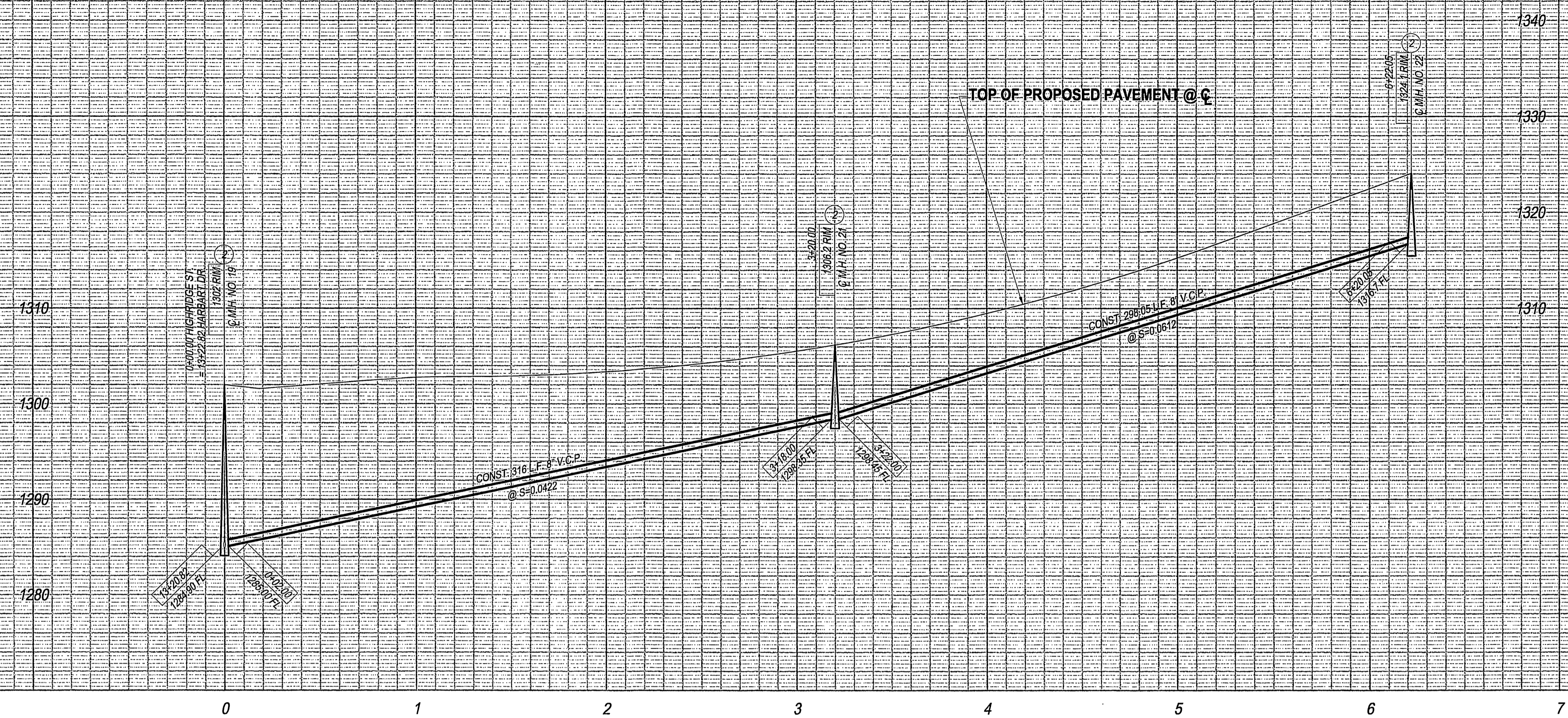
| MARK | REVISIONS | APPR. | DATE |
|------|-----------|-------|------|
| | | | |

DESIGNED BY: S.Z.G. DRAWN BY: S.Z.G. CHECKED BY: G.M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature] DATE: 7/8/03
 PRINCIPAL ENGINEER: [Signature]
 PARK DEPARTMENT: [Signature]
 TRAFFIC DIVISION: [Signature]

SEWER PLAN & PROFILE
TRACT NO. 28907-1
HARBART DRIVE
 STA. 9+90 TO 16+82.86
 SCALE: AS SHOWN

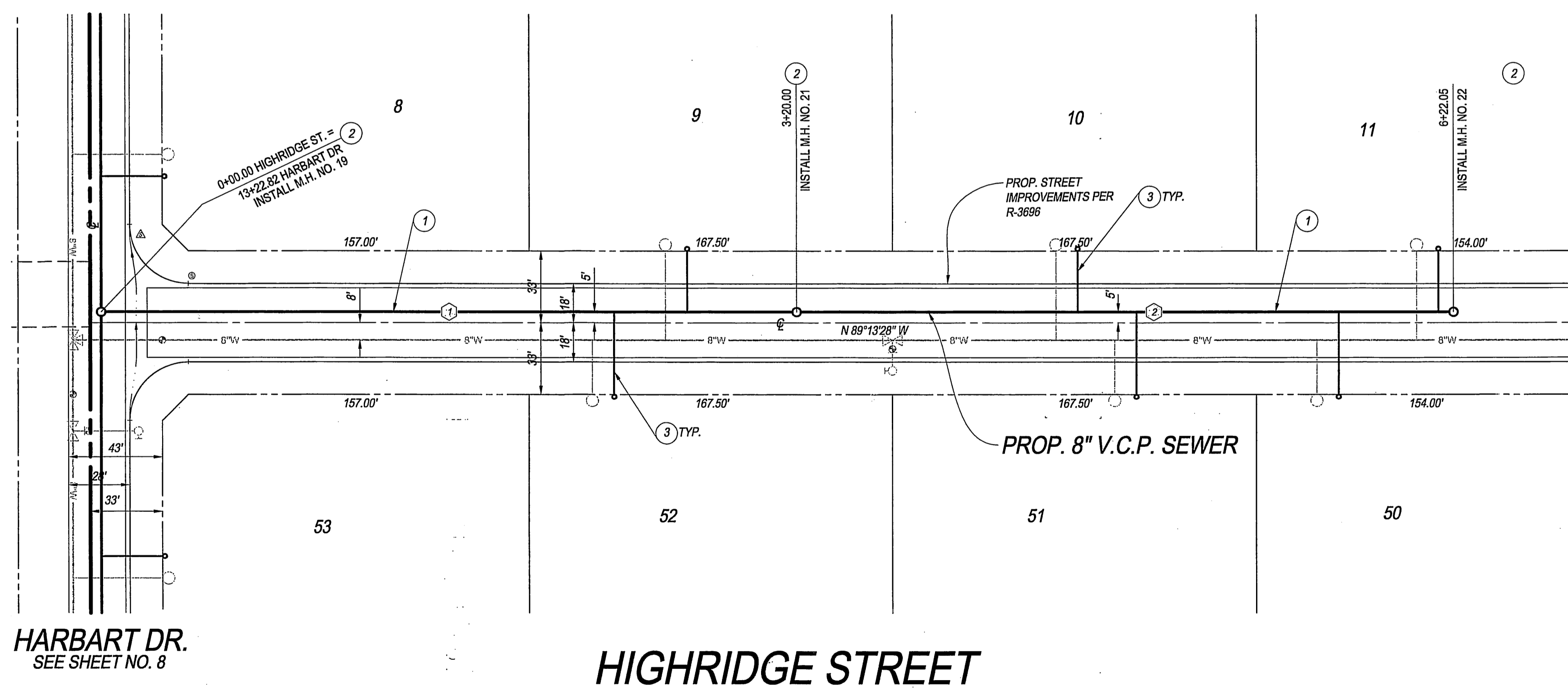
ACCOUNT No. [Blank]
 DRAWING NUMBER
S-1786
 SHEET 8 OF 15



PROFILE SCALES

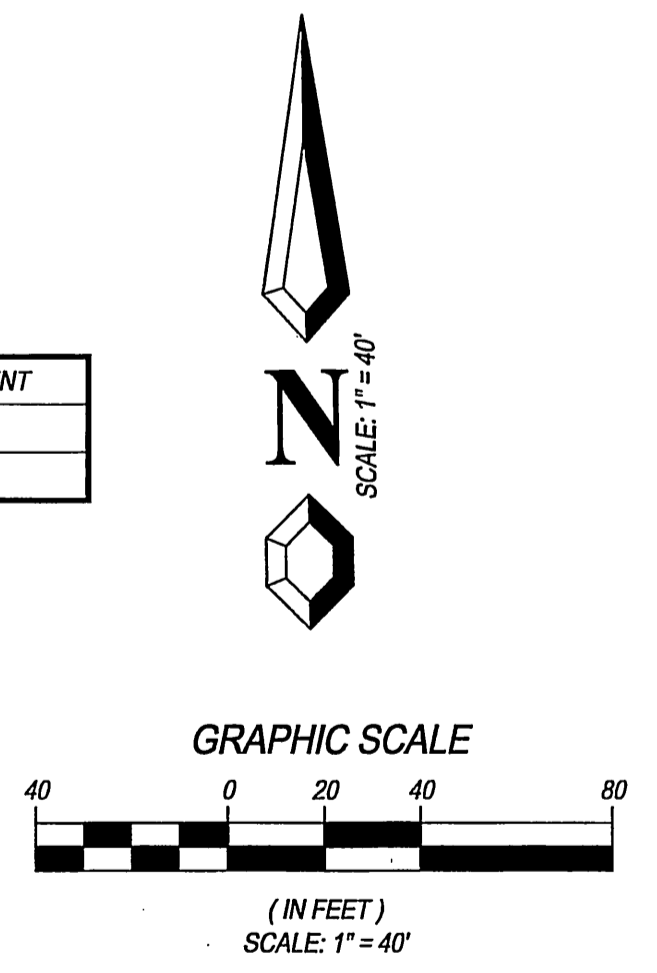
HORIZ.: 1" = 40'

VERT.: 1" = 8'



SEWER DATA TABLE

| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT |
|-----|---------------|--------|--------|---------|
| 1 | N 89°13'28" W | | 316.00 | |
| 2 | N 89°13'28" W | | 326.00 | |



- CONSTRUCTION NOTES:**
- 1 CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE I PER CITY OF RIVERSIDE STD. 452)
 - 2 CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
 - 3 CONSTRUCT 4" SEWER LATERAL WITH CLEAN OUT PER CITY OF RIVERSIDE STD. 582A

HARBART DR.
SEE SHEET NO. 8

HIGHRIDGE STREET

BENCH MARK DESCRIPTION:

POINT ID: GPS-69
 ELEVATION: 1083.685
 DATE LVLD: 1998
 REFERENCE: LL45/69
 DATUM: 1928 ADJUSTMENT YEAR: 1971
 2ND ORDER POINT
 DESCRIPTION:
 G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991" SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET AND 3' SOUTH OF THE BCR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND BRADLEY STREET.
 (COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

19 Spectrum Pointe Drive • Suite 609
 Lake Forest, CA 92630
 (949) 599-0870
 (949) 599-0880 Fax
MAYERS & ASSOCIATES
 Civil Engineering, Inc.
 PLANNING • ENGINEERING • SURVEYING

APPROVED BY: *[Signature]* DATE: 6/6/03
 (C.E. No. 50316)

J.N. 02-0069-02 FOR: DESIGNED BY: S.Z.G. DRAWN BY: S.Z.G. CHECKED BY: G.M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY: *[Signature]* DATE: 7/8/03
 PRINCIPAL ENGINEER
 CIVIL ENGINEER

SEWER PLAN & PROFILE
TRACT NO. 28907-1
HIGHRIDGE STREET
 STA. 0+00 TO STA. 6+50

SCALE: AS SHOWN

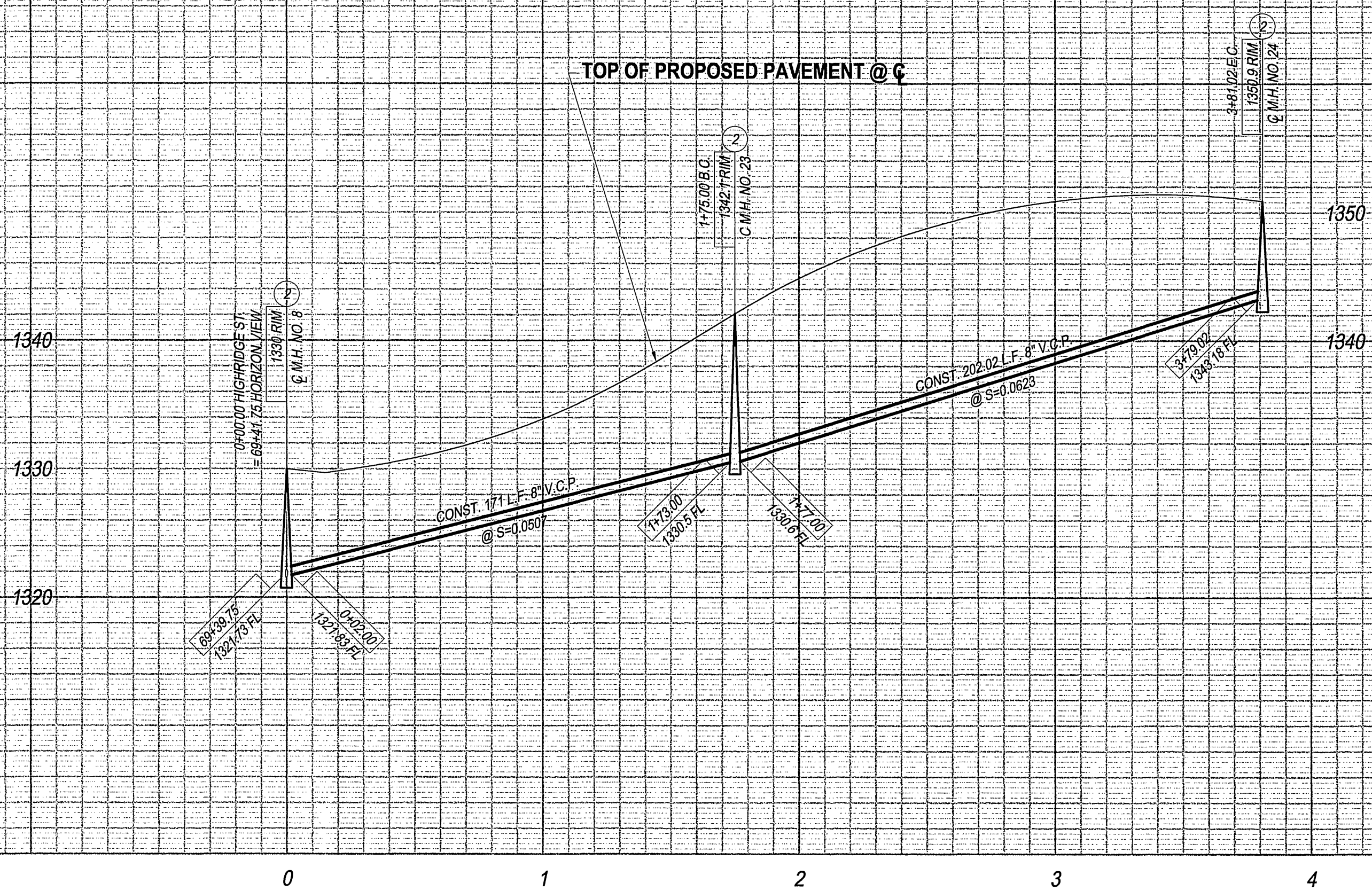
ACCOUNT No. **S-1786**
 DRAWING NUMBER
 SHEET 9 OF 15

UNDERGROUND SERVICE ALERT
 Call: TOLL FREE 1-800-227-2600
 TWO WORKING DAYS BEFORE YOU DIG



INDEXED 8-04-03 44

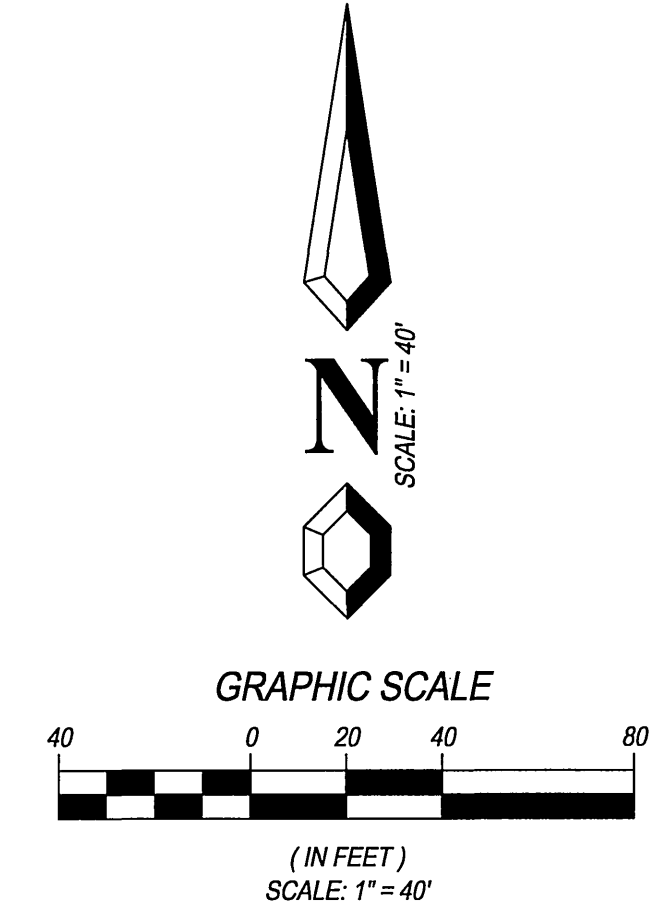
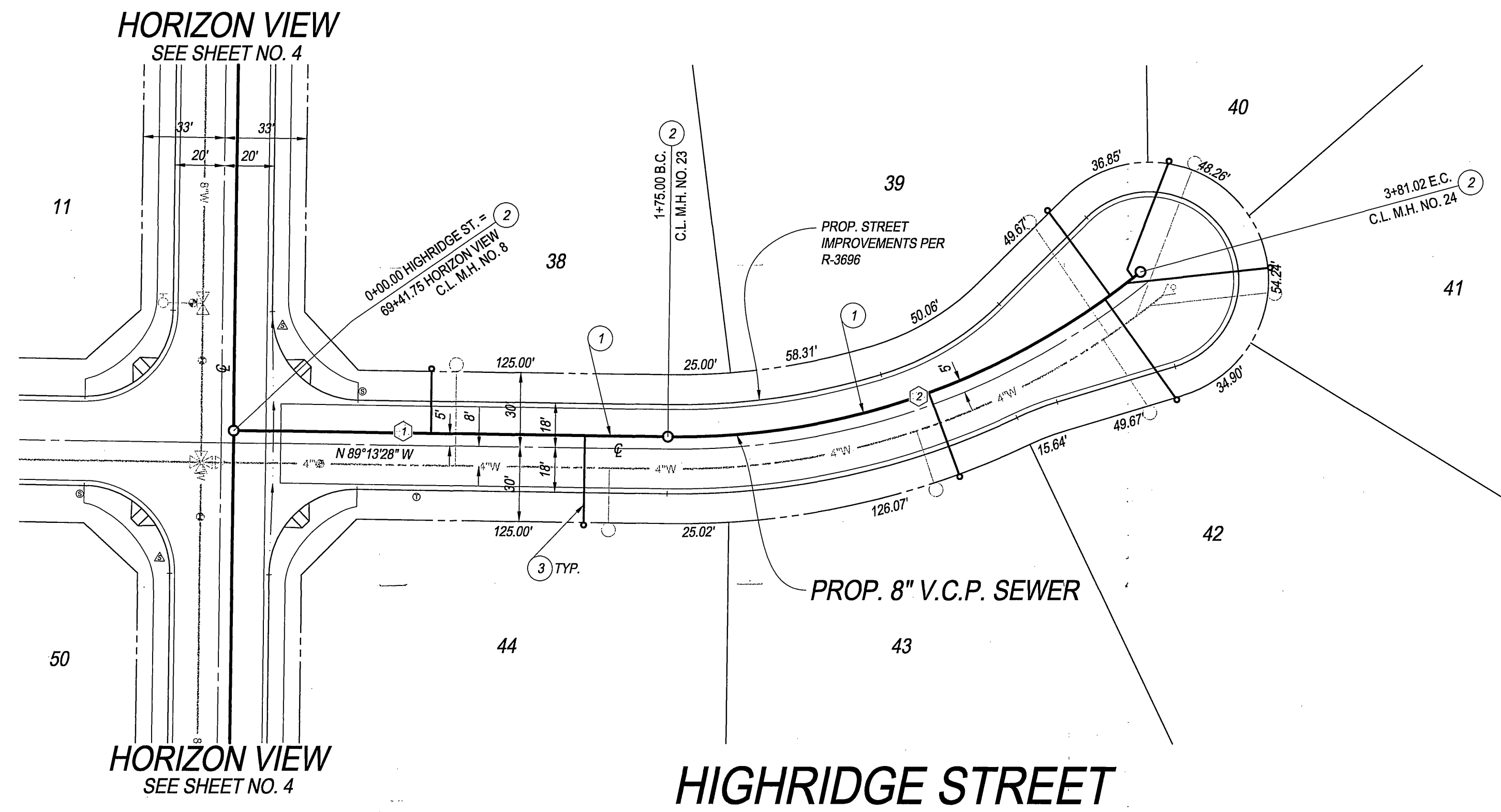
Job No. 02-0069-02, Bldg. No. XXX, City of Riverside - Sewer Plan & Profile



PROFILE SCALES

HORIZ.: 1" = 40'

VERT.: 1" = 8'



SEWER DATA TABLE

| BEARING/DELTA | RADIUS | LENGTH | TANGENT |
|-----------------|--------|--------|---------|
| 1 N 89°13'28" W | | 171.00 | |
| 2 39°14'16" | 295.00 | 202.02 | 105.15 |

- CONSTRUCTION NOTES:**
- 1 CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE I PER CITY OF RIVERSIDE STD. 452)
 - 2 CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
 - 3 CONSTRUCT 4" SEWER LATERAL WITH CLEAN OUT PER CITY OF RIVERSIDE STD. 562A

UNDERGROUND SERVICE ALERT

Call-Toll FREE
1-800-227-2600

TWO WORKING DAYS
BEFORE YOU DIG

*CAUTION: Remember that the USA Center notifies only those utilities belonging to the center. There could be other utilities present at the work site. The center will inform you of action they will notify.



BENCH MARK DESCRIPTION:

POINT ID: GPS-69 ELEVATION: 1083.685 DATE LVLD: 1998 REFERENCE: LL45/69 DATUM: 1929 ADJUSTMENT YEAR: 1971

2ND ORDER POINT DESCRIPTION:
G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991" SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET AND 3' SOUTH OF THE BCR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND BRADLEY STREET.
(COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

19 Spectrum Pointe Drive • Suite 609
Lake Forest, CA 92630
(949) 599-0870
(949) 599-0880 Fax

MAYERS & ASSOCIATES
Civil Engineering, Inc.
PLANNING • ENGINEERING • SURVEYING

APPROVED BY: *[Signature]* DATE: 6/6/03
R.C.E. No. 50318

| MARK | REVISIONS | APPR. | DATE |
|------|-----------|-------|------|
| | | | |

DESIGNED BY: S.Z.G. DRAWN BY: S.Z.G. CHECKED BY: G.M.

**CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT**

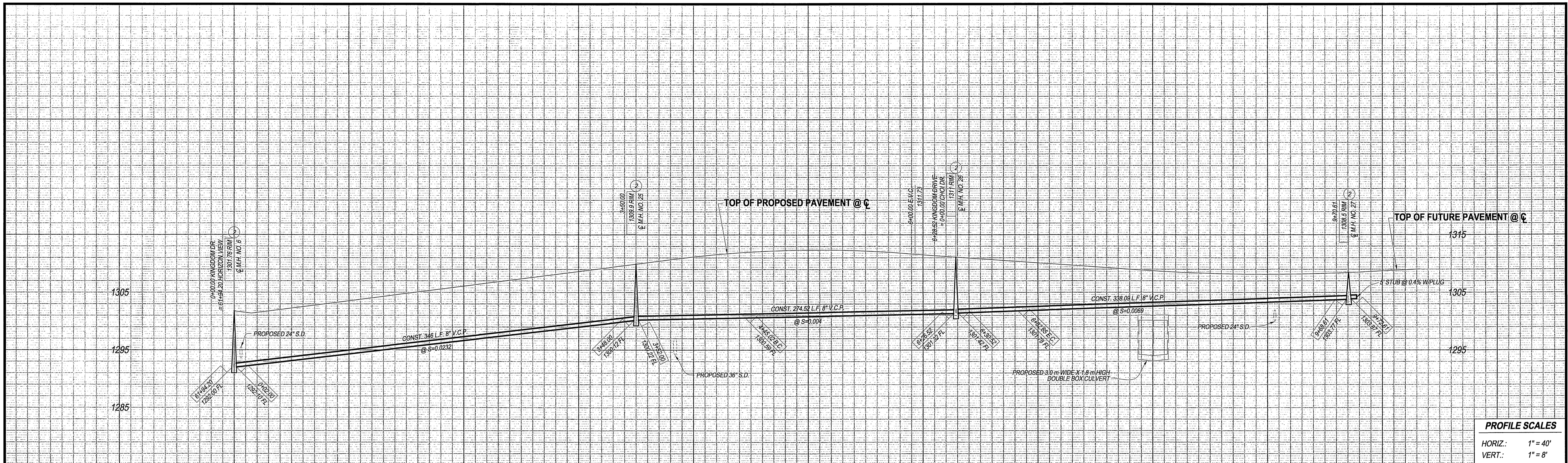
APPROVED BY: *[Signature]* DATE: 7/6/03
PRINCIPAL ENGINEER
PARK DEPARTMENT
TRAFFIC DIVISION

INDEXED 8-01-03 *[Signature]*

**SEWER PLAN & PROFILE
TRACT NO. 28907-1
HIGHRIDGE STREET
STA. 0+00 TO STA. 3+88.50**

SCALE: AS SHOWN

ACCOUNT No. **S-1786**
DRAWING NUMBER
SHEET 10 OF 15

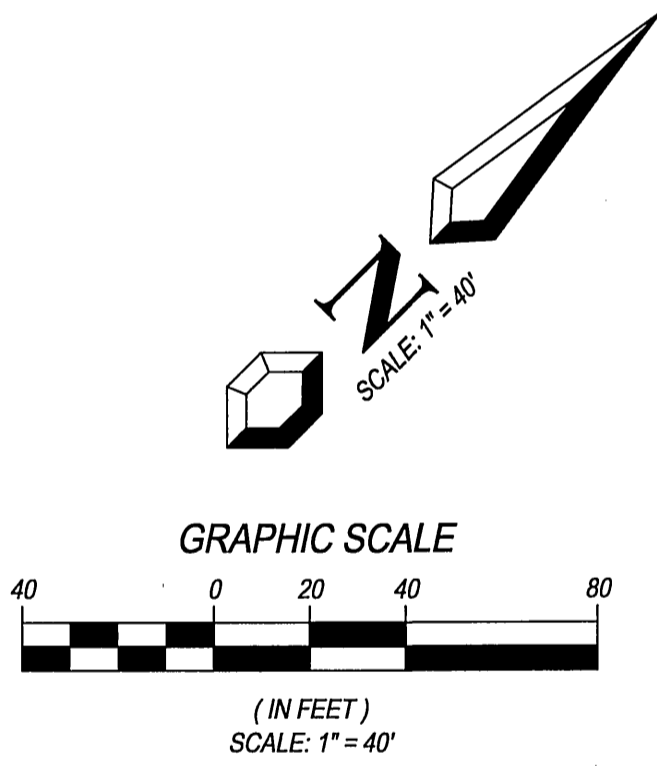
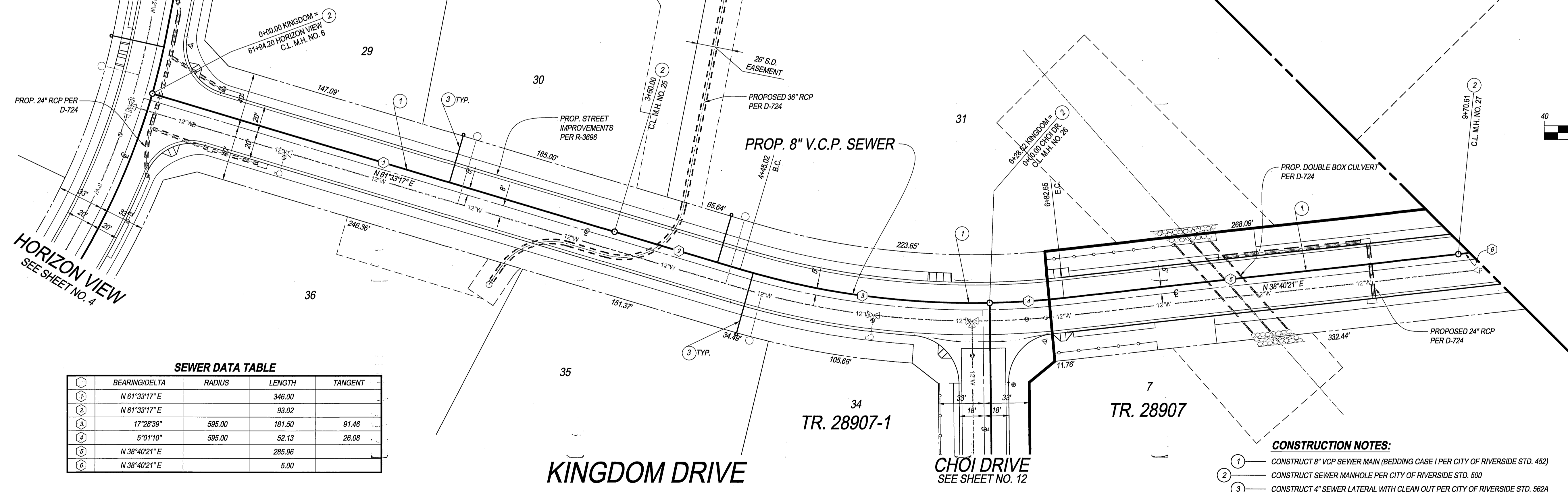


PROFILE SCALES

HORIZ.: 1" = 40'

VERT.: 1" = 8'

HORIZON VIEW
SEE SHEET NO. 3



SEWER DATA TABLE

| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT |
|-----|---------------|--------|--------|---------|
| 1 | N 61°33'17" E | | 346.00 | |
| 2 | N 61°33'17" E | | 93.02 | |
| 3 | 17°28'39" | 595.00 | 181.50 | 91.46 |
| 4 | 5°01'10" | 595.00 | 52.13 | 26.08 |
| 5 | N 38°40'21" E | | 265.96 | |
| 6 | N 38°40'21" E | | 5.00 | |

- CONSTRUCTION NOTES:**
- CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE I PER CITY OF RIVERSIDE STD. 452)
 - CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 600
 - CONSTRUCT 4" SEWER LATERAL WITH CLEAN OUT PER CITY OF RIVERSIDE STD. 562A

UNDERGROUND SERVICE ALERT

Call/Toll FREE
1-800-227-2600

TWO WORKING DAYS
BEFORE YOU DIG

CAUTION Remember that the USA Center notifies only those utilities belonging to the center. There could be other utilities present at the work site. The center will advise you of whom they will notify.



BENCH MARK DESCRIPTION:

POINT ID: GPS-69
ELEVATION: 1083.685
DATE LVLD: 1998
REFERENCE: LL45/69
DATUM: 1929
ADJUSTMENT YEAR: 1971

2ND ORDER POINT DESCRIPTION:
G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991" SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET AND 3' SOUTH OF THE BCR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND BRADLEY STREET.
(COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

19 Spectrum Pointe Drive • Suite 609
Lake Forest, CA 92630
(949) 399-0870
(949) 399-0880 Fax

MAYERS & ASSOCIATES
Civil Engineering, Inc.
PLANNING • ENGINEERING • SURVEYING

APPROVED BY: *[Signature]* DATE: 6/6/03
G.C.E. No. 50318

J.N. 02-0069-02 FOR:

| MARK | REVISIONS | APPR. | DATE |
|------|-----------|-------|------|
| | | | |

DESIGNED BY: S.Z.G. DRAWN BY: S.Z.G. CHECKED BY: G.M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

| | | | |
|--------------------|--------------------|--------|--------------------|
| APPROVED BY | BY | DATE | APPROVED BY |
| PRINCIPAL ENGINEER | <i>[Signature]</i> | 6/6/03 | <i>[Signature]</i> |
| PARK DEPARTMENT | | | |
| TRAFFIC DIVISION | | | |

DATE: 6/6/03

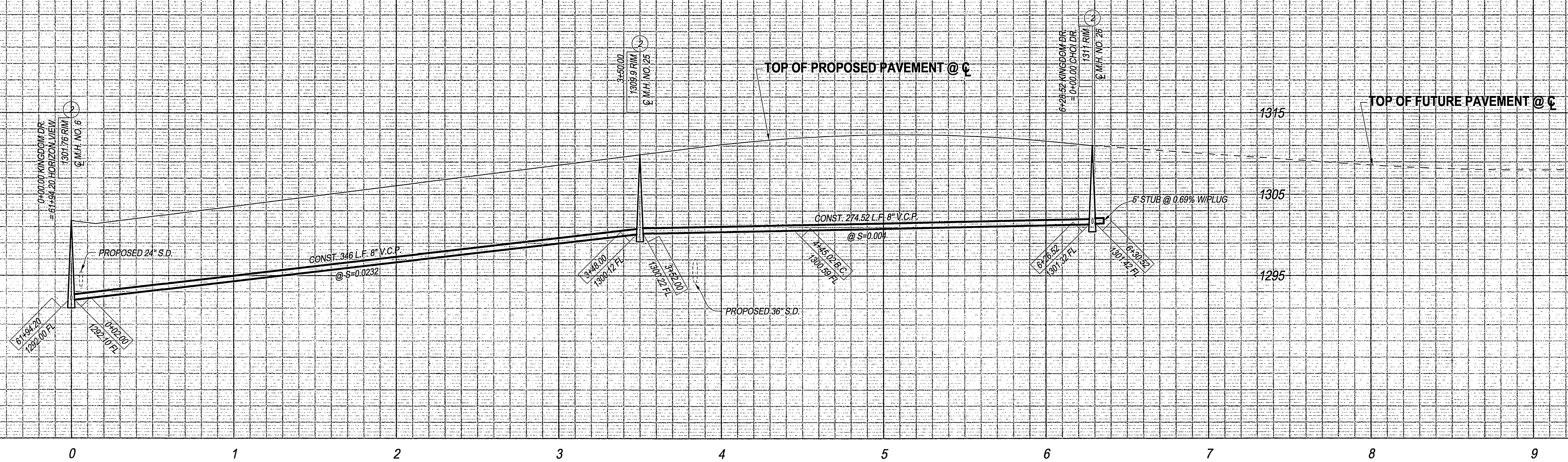
INDEXED 8-04-03 4H

SEWER PLAN & PROFILE
TRACT NO. 28907 & 28907-1
KINGDOM DRIVE
STA. 0+00 TO STA. 9+90.85

SCALE: AS SHOWN

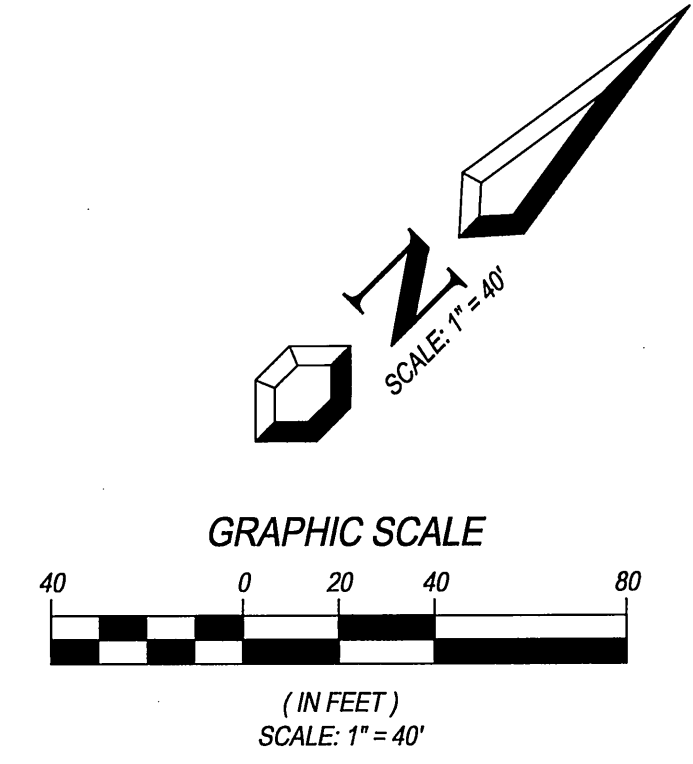
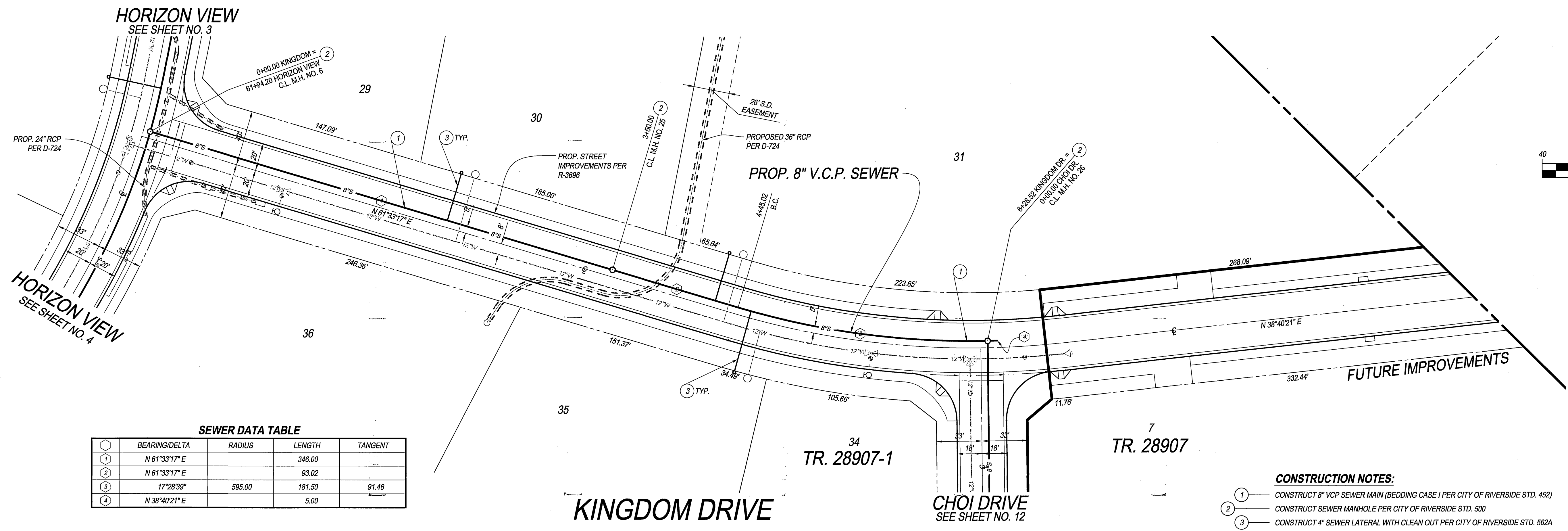
ACCOUNT No.
DRAWING NUMBER
S-1786
SHEET 11 OF 15

1305
1295
1285



PROFILE SCALES

| | |
|---------|----------|
| HORIZ.: | 1" = 40' |
| VERT.: | 1" = 8' |



SEWER DATA TABLE

| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT |
|-----|---------------|--------|--------|---------|
| 1 | N 61°33'17" E | | 346.00 | |
| 2 | N 61°33'17" E | | 93.02 | |
| 3 | 17°28'39" | 595.00 | 181.50 | 91.46 |
| 4 | N 38°40'21" E | | 5.00 | |

- CONSTRUCTION NOTES:**
- CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE I PER CITY OF RIVERSIDE STD. 452)
 - CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
 - CONSTRUCT 4" SEWER LATERAL WITH CLEAN OUT PER CITY OF RIVERSIDE STD. 562A

UNDERGROUND SERVICE ALERT
Call: Toll FREE
1-800-227-2600
TWO WORKING DAYS
BEFORE YOU DIG



BENCH MARK DESCRIPTION:

POINT ID: GPS-69
ELEVATION: 1083.685
DATE LVLD: 1998
REFERENCE: LL45/69
DATUM: 1929
ADJUSTMENT YEAR: 1971
2ND ORDER POINT
DESCRIPTION:
G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991"
SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET
AND 3' SOUTH OF THE BCR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND
BRADLEY STREET.
(COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

19 Spectrum Pointe Drive • Suite 609
Lake Forest, CA 92630
(949) 599-0870
(949) 599-0880 Fax
MAYERS & ASSOCIATES
Civil Engineering, Inc.
PLANNING • ENGINEERING • SURVEYING

APPROVED BY: *[Signature]* DATE: 6/16/03
R.C.E. No. 52319

MARK REVISIONS APPR. DATE

DESIGNED BY: S.Z.G. DRAWN BY: S.Z.G. CHECKED BY: G.M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

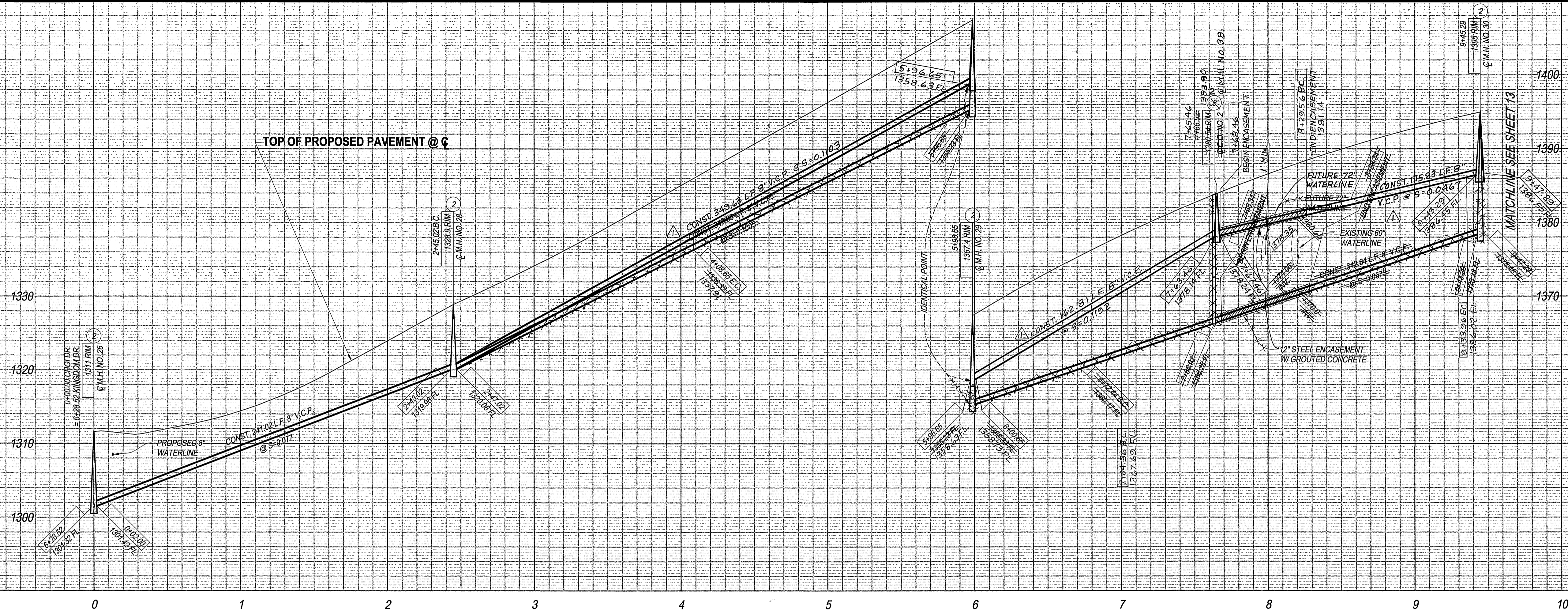
| | | | |
|--------------------|--------------------|--------|--------------------|
| APPROVED BY | BY | DATE | APPROVED BY |
| | <i>[Signature]</i> | 7/9/03 | <i>[Signature]</i> |
| PRINCIPAL ENGINEER | | | CITY ENGINEER |
| PARK DEPARTMENT | | | |
| TRAFFIC DIVISION | | | |

INDEXED 8-04-03 *[Handwritten]*

SEWER PLAN & PROFILE
TRACT NO. 28907 & 28907-1
INTERIM CONDITION
KINGDOM DRIVE
STA. 0+00 TO STA. 9+90.85

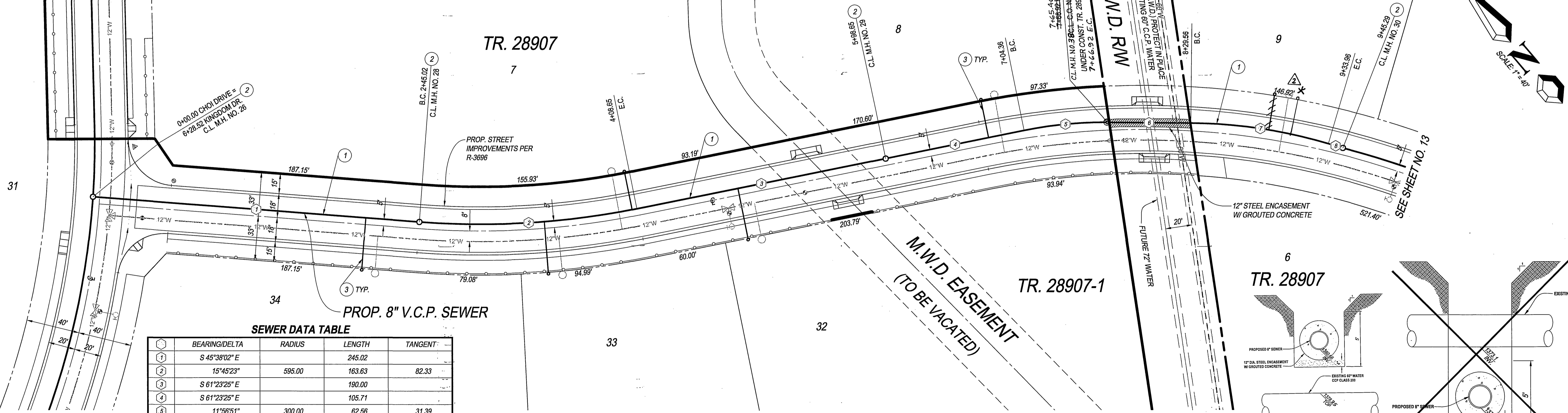
SCALE: AS SHOWN

ACCOUNT No.
DRAWING NUMBER
S-1786
SHEET 11A OF 15



PROFILE SCALES
 HORIZ.: 1" = 40'
 VERT.: 1" = 8'

KINGDOM DRIVE
 SEE SHEET NO. 11

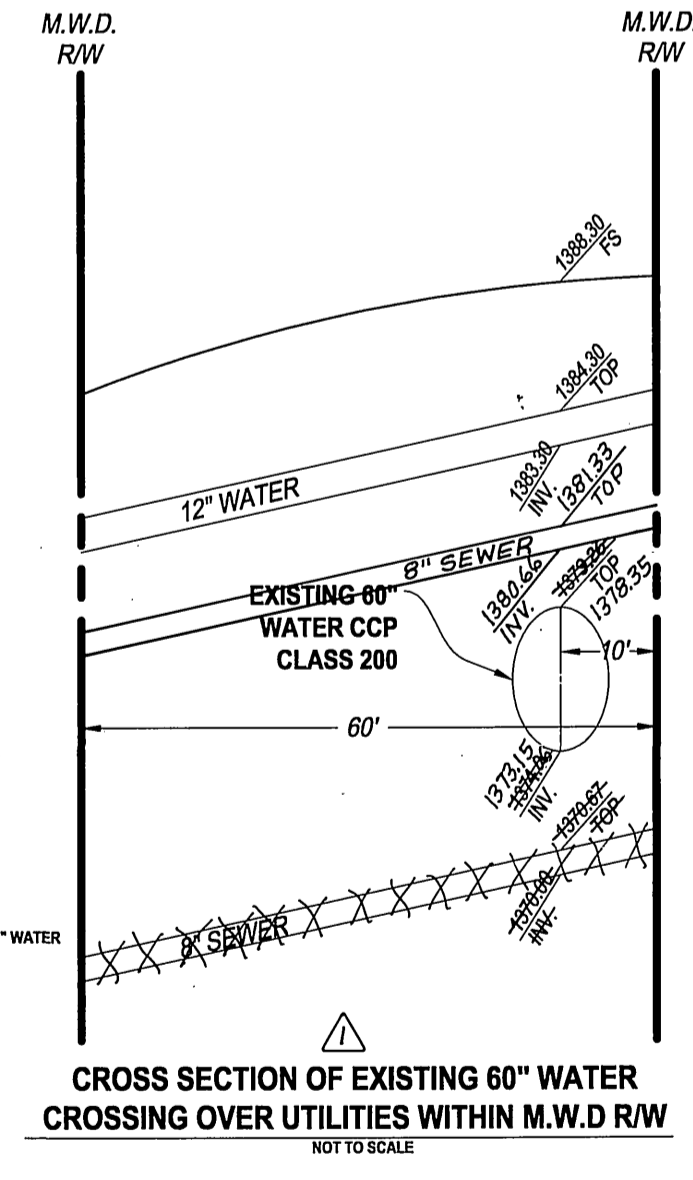


SEWER DATA TABLE

| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT |
|-----|---------------|--------|--------|---------|
| 1 | S 45°38'02" E | 245.02 | 245.02 | 82.33 |
| 2 | 15°45'23" | 595.00 | 163.63 | 82.33 |
| 3 | S 61°23'26" E | 190.00 | 190.00 | 105.71 |
| 4 | S 61°23'26" E | 105.71 | 105.71 | 31.39 |
| 5 | 11°56'51" | 300.00 | 62.56 | 62.64 |
| 6 | S 49°26'34" E | 375.00 | 104.40 | 52.54 |
| 7 | 15°57'03" | 375.00 | 104.40 | 52.54 |
| 8 | S 33°29'30" E | 11.33 | 11.33 | |

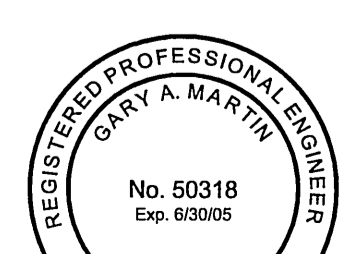
CHOI DRIVE

- CONSTRUCTION NOTES:**
- CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE I PER CITY OF RIVERSIDE STD. 452
 - CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
 - CONSTRUCT 4" SEWER LATERAL WITH CLEAN OUT PER CITY OF RIVERSIDE STD. 562A



METROPOLITAN WATER DISTRICT
 SIGNATURE NOT REQUIRED
 APPROVED BY: SEE APPROVAL LETTER DATED 4/16/03
 DATE:

UNDERGROUND SERVICE ALERT
 Call 811 or ERE
 1-800-227-2600
 TWO WORKING DAYS BEFORE YOU DIG



WESTERN MUNICIPAL WATER DISTRICT
 APPROVED BY: [Signature]
 DATE: 6/16/03

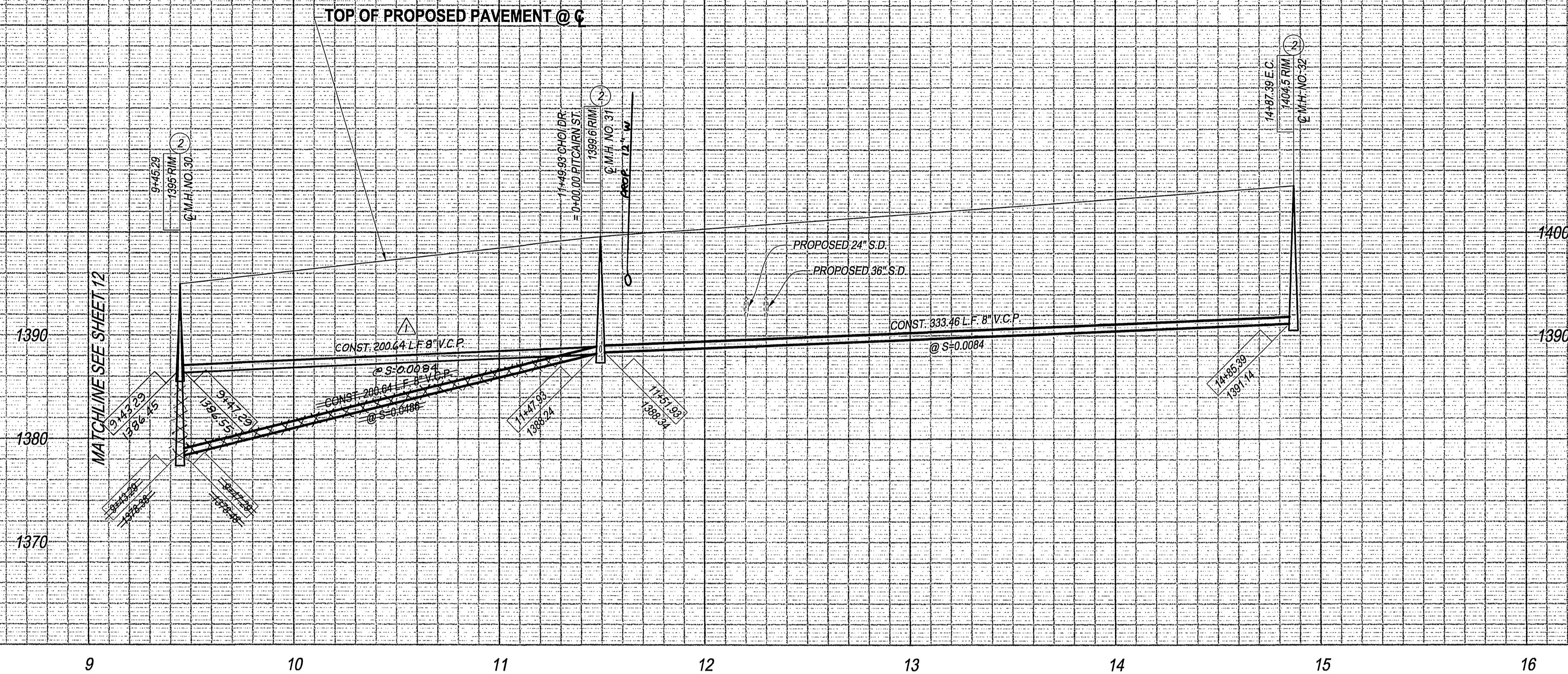
BENCH MARK DESCRIPTION:
 POINT ID: GPS-69
 ELEVATION: 1083.685
 DATE LVLD: 1988
 REFERENCE: LL45689
 DATUM: 1929
 ADJUSTMENT YEAR: 1971
 2ND ORDER POINT
 DESCRIPTION:
 G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED 'CITY OF RIVERSIDE GPS STATION 69 - 1991'
 SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET
 AND 3' SOUTH OF THE BCR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND
 BRADLEY STREET.
 (COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

PLANNERS & ASSOCIATES
 Civil Engineering, Inc.
 PLANNING • ENGINEERING • SURVEYING
 APPROVED BY: [Signature]
 DATE: 6/16/03
 R.C.E. No. 50318

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature]
 DATE: 7/18/03

SEWER PLAN & PROFILE
 TRACT NO. 28907 & 28907-1
 CHOI DRIVE
 STA. 0+00 TO 9+34.69

ACCOUNT NO. [Blank]
 DRAWING NUMBER
S-1786
 SHEET 12 OF 15



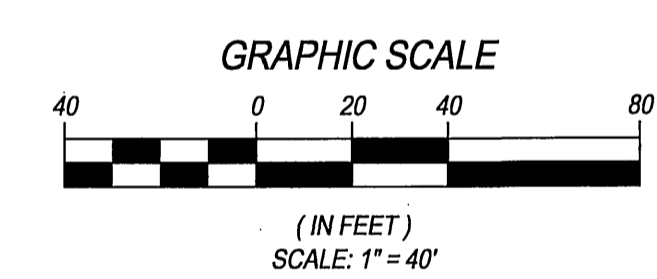
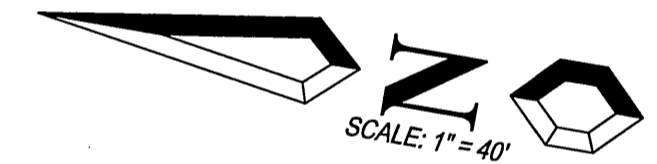
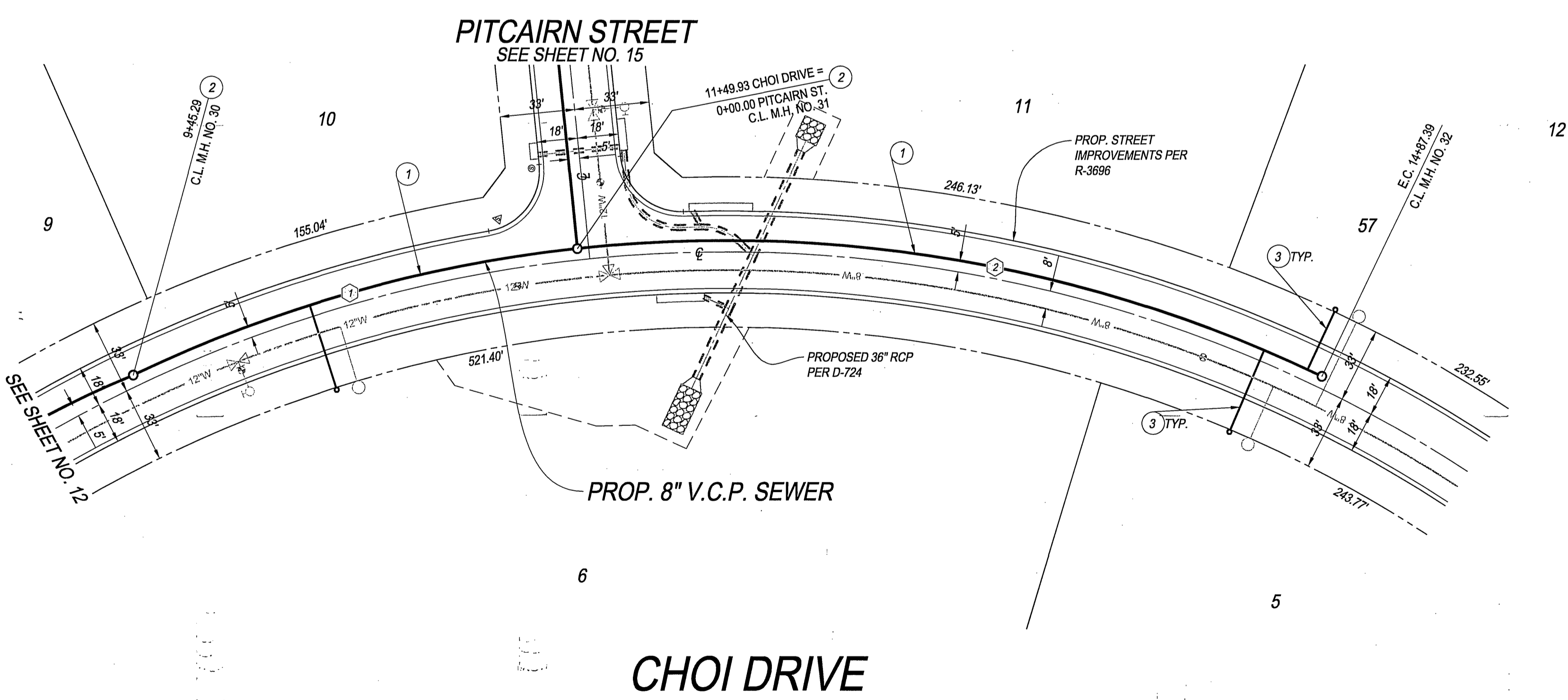
| PROFILE SCALES | |
|----------------|----------|
| HORIZ.: | 1" = 40' |
| VERT.: | 1" = 8' |

SEWER DATA TABLE

| | BEARING/DELTA | RADIUS | LENGTH | TANGENT |
|---|---------------|--------|--------|---------|
| 1 | 19°00'05" | 605.00 | 200.64 | 101.25 |
| 2 | 34°40'19" | 605.00 | 366.11 | 188.85 |

CONSTRUCTION NOTES:

- 1 CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE I PER CITY OF RIVERSIDE STD. 452)
- 2 CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
- 3 CONSTRUCT 4" SEWER LATERAL WITH CLEAN OUT PER CITY OF RIVERSIDE STD. 562A



UNDERGROUND SERVICE ALERT
 Call-Toll FREE
 1-800-227-2600
 TWO WORKING DAYS
 BEFORE YOU DIG
"CAUTION: Remember that the USA Center notifies only those utilities belonging to the center. There could be other utilities present at the work site. The center will inform you of whom they will notify."



BENCH MARK DESCRIPTION:
 POINT ID: GPS-69
 ELEVATION: 1083.685
 DATE LVLD: 1998
 REFERENCE: LL45/69
 DATUM: 1929
 ADJUSTMENT YEAR: 1971
 2ND ORDER POINT
 DESCRIPTION:
 G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991"
 SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET
 AND 3' SOUTH OF THE BCR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND
 BRADLEY STREET.
 (COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

19 Spectrum Pointe Drive - Suite 609
 Lake Forest, CA 92630
 (949) 399-0870
 (949) 399-0880 Fax
MAYERS & ASSOCIATES
 Civil Engineering, Inc.
 PLANNING • ENGINEERING • SURVEYING
 APPROVED BY: *[Signature]* DATE: 6/6/03
 R.C.E. No. 50318
 J.N. 02-0069-02 FOR:

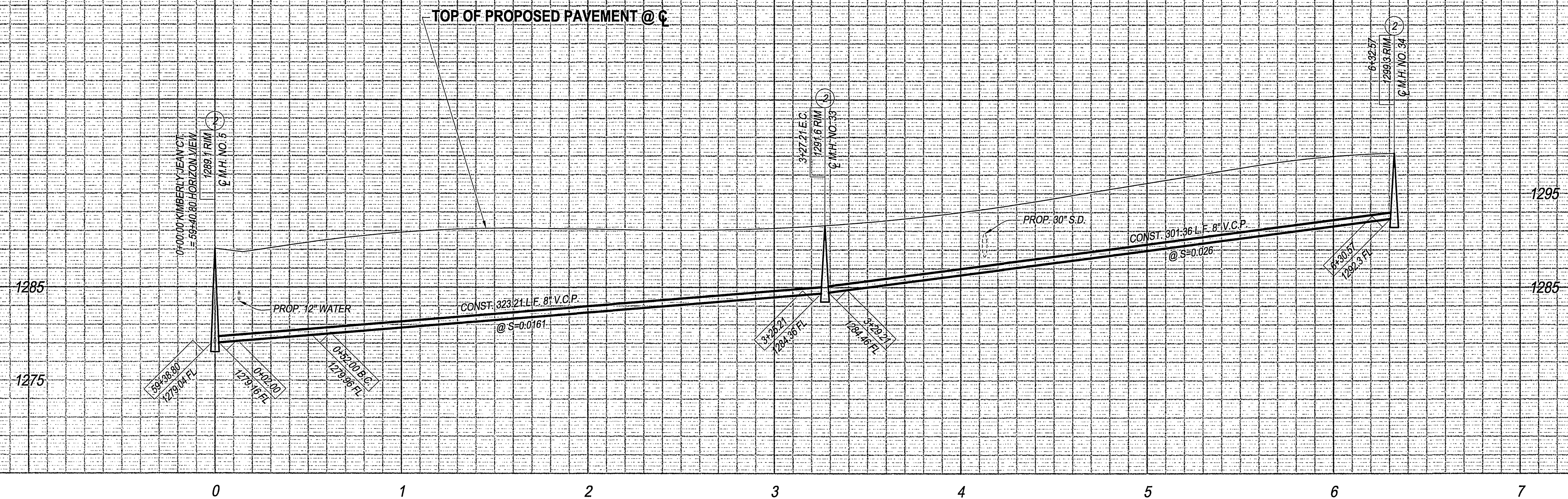
| MARK | REVISIONS | APPR. | DATE |
|------|--|-------|----------|
| △ | REVISE PROFILE FROM STA. 9+45.29 TO 11+49.93 | R/SZ | 11/20/03 |

DESIGNED BY: S.Z.G. DRAWN BY: S.Z.G. CHECKED BY: G.M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
 APPROVED BY: _____ BY: _____ DATE: _____
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 APPROVED BY: *[Signature]*
 CITY ENGINEER
 DATE: 2/8/03

INDEXED 8-04-03 LH
SEWER PLAN & PROFILE
TRACT NO. 28907
CHOI DRIVE
 STA. 9+34.69 TO 15+19.44
 SCALE: AS SHOWN

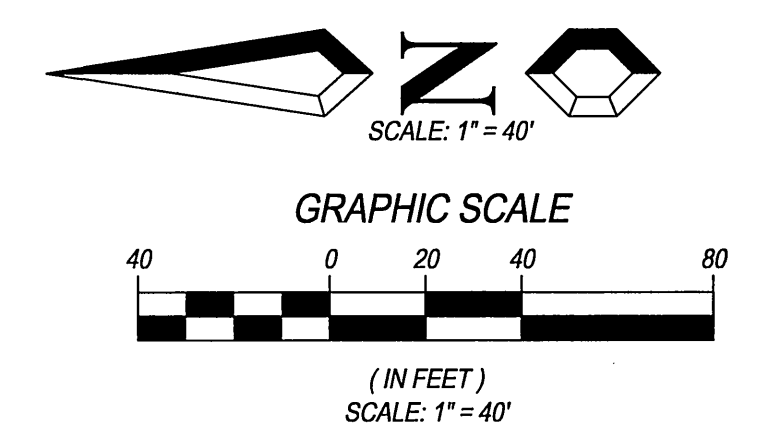
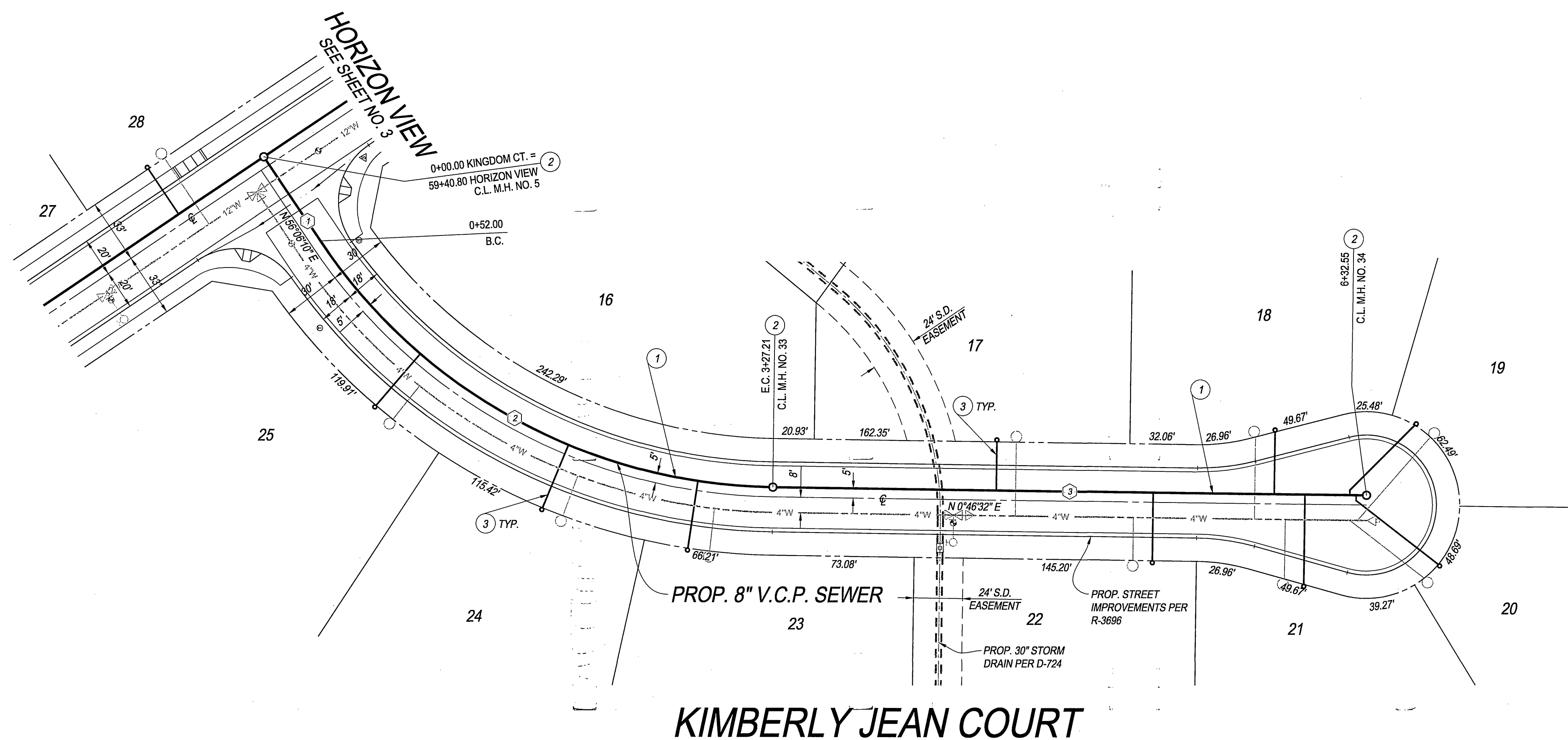
ACCOUNT No. _____
 DRAWING NUMBER
S-1786
 SHEET 13 OF 15



PROFILE SCALES

HORIZ.: 1" = 40'

VERT.: 1" = 8'



SEWER DATA TABLE

| BEARING/Delta | RADIUS | LENGTH | TANGENT |
|-----------------|--------|--------|---------|
| 1 N 56°06'10" E | 50.00 | 50.00 | |
| 2 54°55'31" E | 285.00 | 273.21 | 148.13 |
| 3 N 0°46'32" E | | 301.36 | |

- CONSTRUCTION NOTES:**
- 1 CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE I PER CITY OF RIVERSIDE STD. 452)
 - 2 CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
 - 3 CONSTRUCT 4" SEWER LATERAL WITH CLEAN OUT PER CITY OF RIVERSIDE STD. 562A

UNDERGROUND SERVICE ALERT

Call/Toll FREE
1-800-227-2600

TWO WORKING DAYS
BEFORE YOU DIG

CAUTION Remember that the USA Center notifies only those utilities belonging to the center. There could be other utilities present at the work site. The center will indemnify you of whom they will notify.



BENCHMARK DESCRIPTION:

POINT ID: GPS-69
ELEVATION: 1083.685
DATE LVLD: 1998
REFERENCE: LL45/69
DATUM: 1929
ADJUSTMENT YEAR: 1971
2ND ORDER POINT
DESCRIPTION:
G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991" SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET AND 3' SOUTH OF THE BCR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND BRADLEY STREET.
(COMBINED LEVELS - R.B.F. AND CITY) MISC. LEVEL WORK

19 Spectrum Pointe Drive • Suite 609
Lake Forest, CA 92630
(949) 599-0870
(949) 599-0880 Fax

MAYERS & ASSOCIATES
Civil Engineering, Inc.
PLANNING • ENGINEERING • SURVEYING

APPROVED BY: *S.M.H.* DATE: 6/6/03
R.C.E. No. 50318

J.N. 02-0069-02 FOR:

| MARK | REVISIONS | APPR. | DATE |
|------|-----------|-------|------|
| | | | |
| | | | |

DESIGNED BY: S.Z.G. DRAWN BY: S.Z.G. CHECKED BY: G.M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

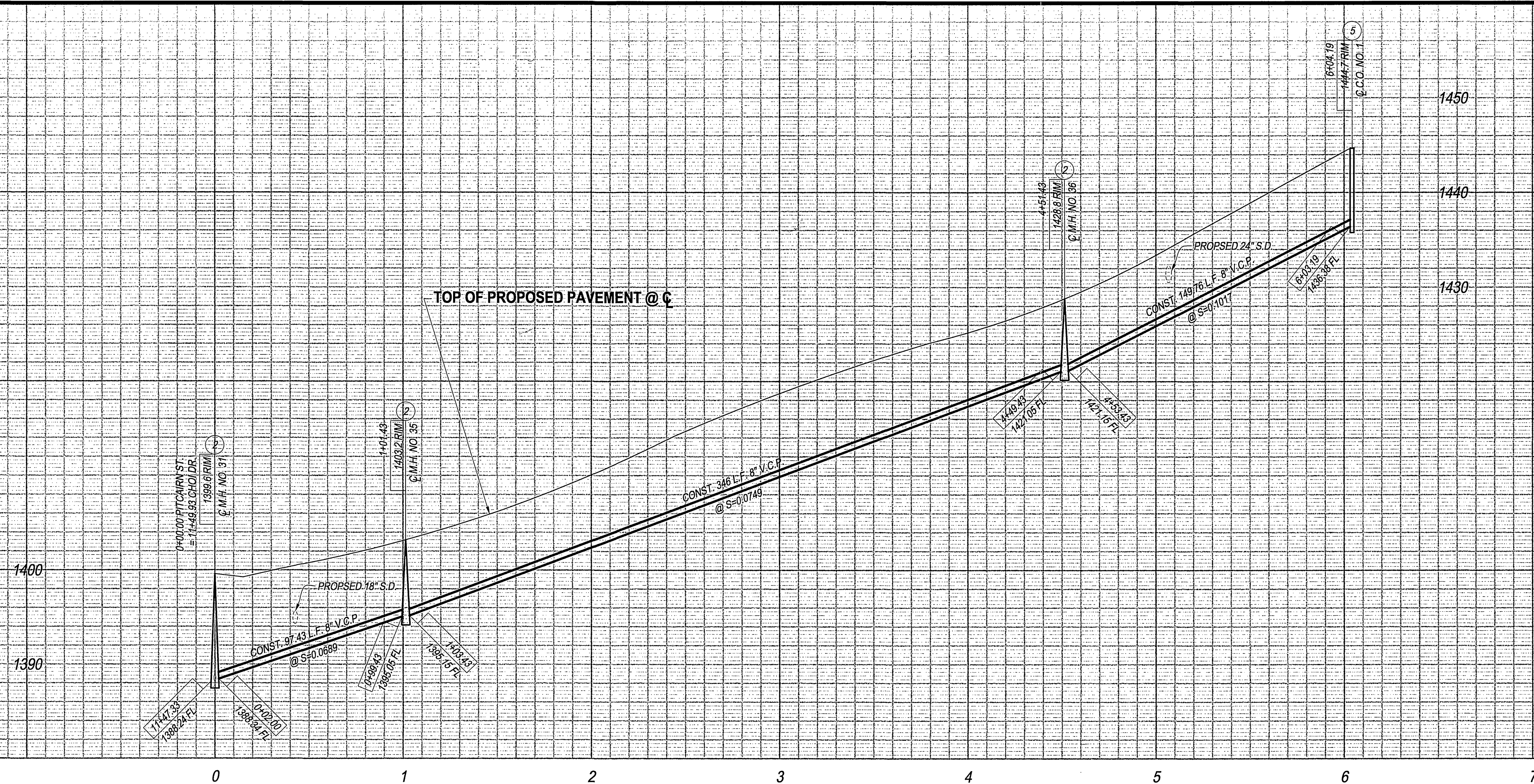
APPROVED BY: *[Signature]* DATE: 6/6/03
PRINCIPAL ENGINEER
PARK DEPARTMENT
TRAFFIC DIVISION

INDEXED 8-04-03 Lfh

SEWER PLAN & PROFILE
TRACT NO. 28907-1
KIMBERLY JEAN COURT
STA. 0+00 TO STA. 6+31.38

SCALE: AS SHOWN

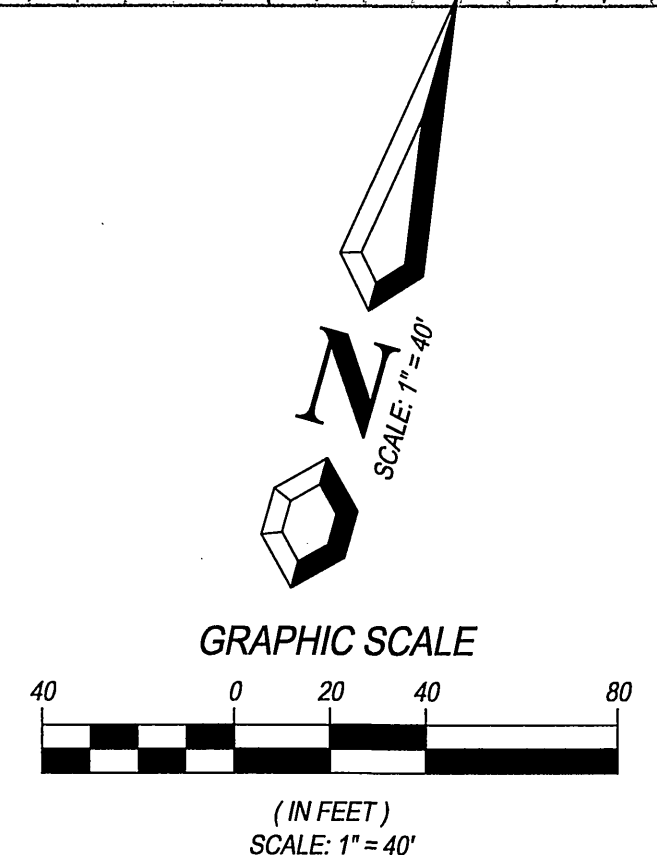
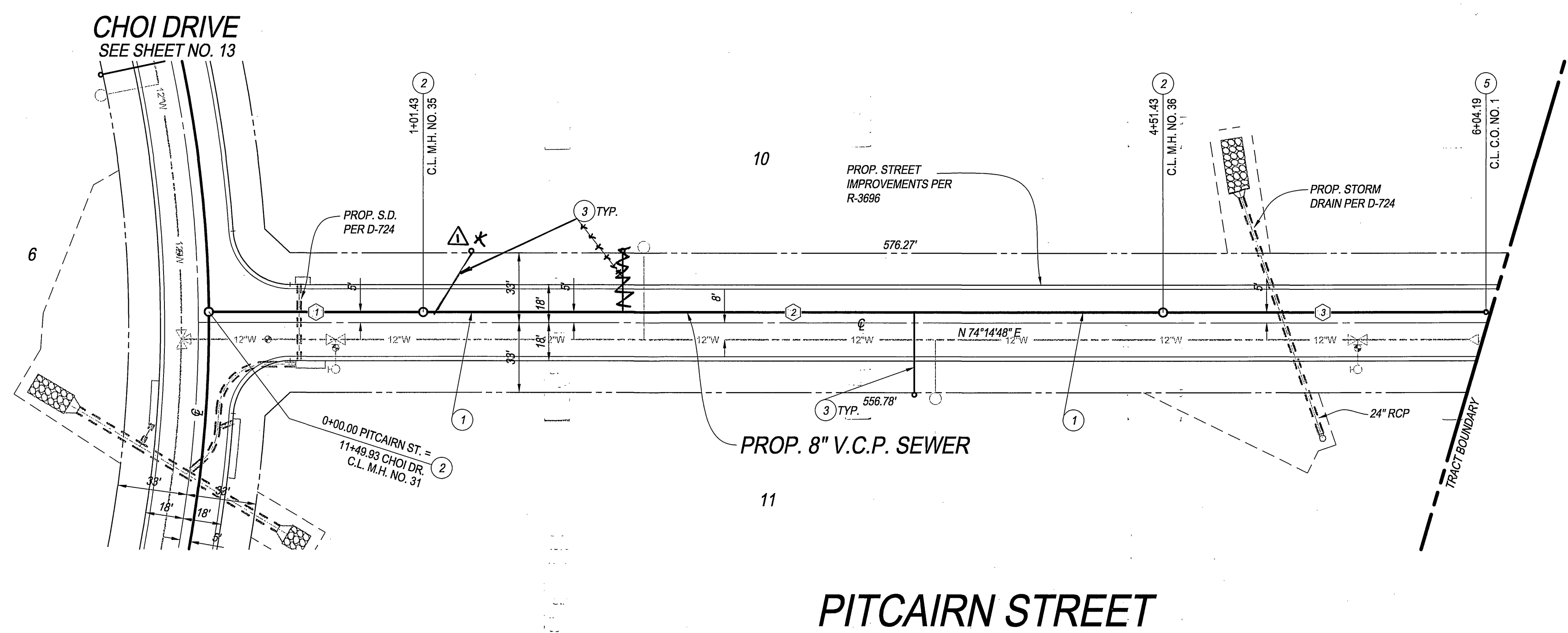
ACCOUNT No.
DRAWING NUMBER
S-1786
SHEET 14 OF 15



PROFILE SCALES

HORIZ.: 1" = 40'

VERT.: 1" = 8'



SEWER DATA TABLE

| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT |
|-----|---------------|--------|--------|---------|
| 1 | N 74°14'48" E | | 97.43 | |
| 2 | N 74°14'48" E | | 346.00 | |
| 3 | N 74°14'48" E | | 162.02 | |

- CONSTRUCTION NOTES:**
- 1 CONSTRUCT 8" VCP SEWER MAIN (BEDDING CASE 1 PER CITY OF RIVERSIDE STD. 452)
 - 2 CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
 - 3 CONSTRUCT 4" SEWER LATERAL WITH CLEAN OUT PER CITY OF RIVERSIDE STD. 562A
 - 5 CONSTRUCT CLEANOUT PER CITY OF RIVERSIDE STD. 560

△ * NOTE: LAY WYE FLAT

UNDERGROUND SERVICE ALERT

Call Toll FREE
1-800-227-2600

TWO WORKING DAYS
BEFORE YOU DIG

*CAUTION: Remember that the USA Center notifies only those utilities belonging to the center. There could be other utilities present at the work site. The center will inform you of what they will notify.



BENCH MARK DESCRIPTION:

POINT ID: GPS-69
ELEVATION: 1083.685
DATE LVLD: 1998
REFERENCE: LL4569
DATUM: 1929
ADJUSTMENT YEAR: 1971

ELEVATION: 0
DATE LVLD: 0

ELEVATION: 0
DATE LVLD: 0

ELEVATION: 0
DATE LVLD: 0

2ND ORDER POINT DESCRIPTION:
G.P.S. POINT 69 - A 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 69 - 1991" SET IN THE NORTH END OF A CATCH BASIN 1' EAST OF THE EAST CURB OF WASHINGTON STREET AND 3' SOUTH OF THE BCR AT THE SOUTHEAST CURB RETURN OF WASHINGTON STREET AND BRADLEY STREET.
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(949) 599-0870
(949) 599-0880 Fax

MAYERS & ASSOCIATES
Civil Engineering, Inc.
PLANNING • ENGINEERING • SURVEYING

APPROVED BY: *[Signature]* DATE: 6/6/03
R.C.E. No. 50318

J.N. 02-0069-02 FOR:

| MARK | REVISIONS | APPR. | DATE |
|------|-----------------------|-------|----------|
| △ | REV. SEWER-LAT LOT 10 | RZ | 12-26-03 |

DESIGNED BY: S.Z.G. DRAWN BY: S.Z.G. CHECKED BY: G.M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

| | | | |
|--------------------|--------------------|--------|--------------------|
| APPROVED BY | BY | DATE | APPROVED BY |
| PRINCIPAL ENGINEER | <i>[Signature]</i> | 6/6/03 | <i>[Signature]</i> |
| PARK DEPARTMENT | | | |
| TRAFFIC DIVISION | | | |

DATE: 2/6/03

SEWER PLAN & PROFILE
TRACT NO. 28907
PITCAIRN STREET
STA. 0+00 TO STA. 6+01.43

SCALE: AS SHOWN

ACCOUNT No.
DRAWING NUMBER
S-1786
SHEET 15 OF 15

INDEXED 9-04-03 YH

Job No. 02-0069-02 Bm No. XXX City of Riverside - Sewer Plan & Profile