Q = 103.3 cfs

Q = 60 cfs

FINISH PAVEMENT SURFACE

EXIST. ℄ DITCH 14' ± N/S S.D.

H.G.L.

4' HIGH CHAIN LINK FENCE

939.03

939.82 HEAD WALL

CONC. WING WALL

939.23 INLET $Q_{cap}$ = 60.0 cfs

GROUTED 12" RIP RAP

Conc. Floor

20'

36" RCP

V = 11.53 FPS

S = 0.0120

$Q_{cap}$ = 60.0 cfs

18" Min. Clearance

12" Min. Clearance

36" RCP

V = 11.11 FPS

S = 0.0109

DOUBLE LINE 2-27" RCP

V = 8.33 FPS

S = 0.00879

$Q_{cap}$ = 60.0 cfs

W.S.

V = 4.62 FPS

S = 0.0024

924.00 OUTLET

WING WALL

EXIST. E.P.

EXIST. 36" RCP

EXIST. 4'TH. PROJECT TO BE REMOVED

EXIST. TEL. MANHOLE TO BE RELOCATED BY OTHERS

PROP. 6" WATER LINE

PROP. 2" Water Service

PROP. 6" Water (Fire Lateral)

PROP. 2" Water Service

PROP. 12" Water Fire Service

CONCRETE COLLAR

0+26.05

2+00

3+62.81

0+89.68 B.C.

0+92.71 T.C.

238.53 L.F.

130.58'

278.50

34.066'

7+14.066

6+80

7+00

PER 10" BEDDING DETAIL CONCRETE BACKFILL 2000 D

PER BEDDING DET. 1250 D

PER BEDDING DETAIL 1250 D

PER BEDDING DETAIL 1000 D

1250 D Conc. Backfill

LINE "B"

0 1 2 3 4 5 6 7

940 935 930 925 920

940 935 930 925

940 935 930 925

## NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTRES 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.

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.

EXIST. 12"HP GAS

EXIST. 20" STEEL WATER LINE

NOTE:
THE 3" HP GAS & 12" HP GAS LINES SHOWN HEREON IS A HIGH PRESSURE GAS LINE. CONTRACTOR SHALL TAKE DUE PRECAUTION IN PROTECTING SAID GAS LINE DURING ANY CONSTRUCTION OR OPERATION OF EQUIPMENT IN THE VICINITY.

EXISTING 3" HP GAS

CAUTION Exist. 6" C.I. Pipe Drain

CAUTION Exist. 6" C.I. PIPE DRAIN

Δ = 52° 01' 57"
R = 45.00'
L = 40.87'
T = 21.96'

0+14.25 STA. 0+28.05

26+00.52 MARLBOROUGH AVE
79+57.00 IOWA AVE.

MARLBOROUGH AVENUE

IOWA AVENUE

N 89° 45' 45" W

N 00° 14' 15" W

℄ 4-4" TEL. DUCT 27.5' N/O ℄ MARLBOROUGH

BURIED CABLE

TEL. M.H.

EXIST. 24" S.D. PER DWG. No. R-2777

EXIST. 18"x36" CULVERT

PROPOSED STREET IMPROVEMENT PER C/R (67) 36" RCP

PLAN R 3022 Exist. 24" Water

NEW 12" R.I.P. WATER

EXIST. RIM = 935.63 W.L. Thru. = 924.84(out) 924.92(in)

Conc. Collar ± 32.61 at 6+80 ST. STA.

32.66 at 7+14.066 ST. STA.

CONST. EARTH CHANNEL

GROUTED 12" RIP RAP

CONC. FLOOR

FITNESS TRAIL

FIRE SERVICE

℄ MH 2+64.58 ST. STA. 28+46.04

℄ SHAFT 4+00.00 ST. STA. 29+81.46

80+37.57 C.B.

## SECTION C-C

N.T.S.

27" RCP

HEAD WALL

# 4 BARS, 12" O.C. VERT. & HORIZ.

6" WING WALL

# 4 BARS, 20" O.C. VERT. & HORIZ.

# 4 BARS

1.5' X 4' BOX

7.5'

8" THICK HEAD WALL

# 4 BARS, 12" O.C., VERT. & HORIZ.

# 6 BARS @ 7" o.c.

# 4 BARS, 20" O.C. VERT. & HORIZ.

36" RCP

4.80'

INLET PROTECTION BARRIER SEE DETAIL ON SHT. 3 of 3

6" THICK CONC. FLOOR

## SECTION B-B

SCALE : 1" = 4'

4 - # 5 BARS

# 6 BARS @ 7" o.c.

## DETAIL F

N.T.S.

## SECTION A-A

SCALE : 1" = 4'

EXIST. GRND.

MATCH EXIST. E.P.

GROUTED 12" RIP RAP

## PIPE BEDDING IN TRENCHES DETAIL

(Ref. LAOFCD STD. DWG. E-D21B)

Top of Bedding B unless otherwise noted in the Specifications.

Backfill as specified

Excavated bank or shoaling

Bedding B

1/15 D min.

Bedding A

Excavation to limits permitted.

Screed Bedding A to fit curvature and grade of pipe. Type of screed and the method of use to be approved by the Engineer.

Bedding material below bottom of pipe shall be UNDO for pipes 30" and larger in diameter, and 6"for pipes less than 30" in diameter. In no case shall it be less than 1" below any bell or collar.

REINFORCED CONCRETE PIPE

BEDDING B BACKFILL AROUND PIPE (Load Factor 1.8)

a. (a) "D" as appearing in this detail will be taken as the diameter of the pipe 60" or less in diameter. For pipe 60" I.D. or greater, "D" shall be taken as 1/2 the diameter plus 30" (for the purpose of computing the thickness of any shoeing).
a (b) Where 1/15 of the "D" as determined in (a) above results in a dimension greater than the above specified minimum, cover shall be specified on the project drawing.
a (c) Where cover is greater than 1/2 "D" measured at the top of the pipe shall not be greater than 10' for pipe 108" in diameter or less, or 1/2 "D" for pipe over 108" in diameter unless the contractor or his own expense provides Class I bedding or stronger pipe. These dimensions include the thickness of any shoeing.

GENERAL NOTES

A. Bedding A shall be composed of sand, 3/4 - inch or 1/2 - inch crushed rock, No.3 or No. 4 concrete aggregate or gravel, or other granular material as specified, unless otherwise approved by the Engineer. Any of the materials named with a gradation no coarser than that of No.3 concrete aggregate shall be used for pipe 27 inches in diameter and larger, and materials with a gradation no coarser than that of 1/2 - inch crushed rock shall be used for pipe smaller than 27 inches in diameter.

Bedding B shall be composed of sand or other granular material as specified, unless otherwise approved by the Engineer, and shall be completed prior to placing balance of backfill.

Concrete bedding, where called for on Std. Dwg. 2-D213 or where specified on the project drawings, shall be 3320-C-2000 concrete poured wall to wall of trench from top of Bedding A to a minimum depth of 4" over top of pipe. Concrete backfill shall be used for R.C.P. and A.C.P. as required on Std. Dwg. No. 2-D213.

Bedding B shall contain no rocks larger than 4-inch in greatest dimension

Where rocks are included in the bedding, "nesting" thereof will not be permitted.

## 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, STANDARD DRAWING NO. 10 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. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
5. 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.
6. ANY TRAFFIC CONTROL STRIPING OBLITERATED AND/OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE DAYS AFTER NOTIFICATION FROM THE CITY INSPECTORS.
7. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE NO. 1-800-422-4133, 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.
8. THE STORM DRAIN CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
9. BEFORE THE RIP RAP IS ACCEPTED, AS PLACED, AT THE OUTLET OF ANY DRAINAGE STRUCTURE, IT SHALL BE TESTED UNDER FLOWS AS CLOSE AS POSSIBLE TO DESIGN CONDITIONS WITH WATER OBTAINED FROM FIRE HYDRANTS IN THE IMMEDIATE AREA.
10. ALL FLAGGED ELEVATION SHALL BE STAKED IN THE FIELD BY THE FIELD ENGINEER.
11. THE DEVELOPER TO GIVE CITY WATER DIVISION FIVE (5) WORKING DAYS WRITTEN NOTICE PRIOR TO START OF CONSTRUCTION AND TO ALLOW CITY TEN (10) WORKING DAYS FOR COMPLETION OF WORK. (351 - 6168).

## BENCH MARK

J8-A FD. BRASS DISK STAMPED (JB-A) CAPPED AT THE INTERSECTION OF ℄ MARLBOROUGH AVE. AND ℄ IOWA AVE. FB717/65 ELEVATION 929.110

## STORM DRAIN CONSTRUCTION NOTES

| | | | |
|---|---|---|---|
| 41 | CONSTRUCT MANHOLE EZ PER CITY OF RIVERSIDE STD. 431 | EA. | 1 |
| 44 | CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. 407 | EA. | 1 |
| 46 | CONSTRUCT MODIFIED M.H. AX PER CITY OF RIVERSIDE STD. 430 | EA. | 1 |
| 47 | CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. 424 | EA. | 2 |
| 48 | CONSTRUCT INLET STRUCTURE AS SHOWN PER PLAN & PROFILE | EA. | 1 |
| 49 | CONSTRUCT OUTLET STRUCTURE AS SHOWN PER PLAN & PROFILE | EA. | 1 |
| 53 | CONSTRUCT TEMPORARY CHAIN-LINK FENCE | L.F | 157 |
| 56 | CONSTRUCT 12"X48" BOX (DETAIL F THIS SHEET) | L.F. | 55 |
| 57 | INSTALL 36" R.C.P. | L.F. | 443 |
| 65 | CONSTRUCT TRAPEZOIDAL EARTH CHANNEL PER SECTION A-A | L.F. | 68 |
| 67 | INSTALL DOUBLE LINE 2-27" RCP | L.F. | 241 |
| 68 | TELEPHONE CABLE TO BE RELOCATED BY PACIFIC BELL | EA. | 2 |

#-AS BUILT 2-4-91 Brian

Exist. Pavement

Exist. H.W.

PROPOSED PAVEMENT

930.92 W.S.

Exist. 18" x 36" R.C. Box (830.02)

HGL

S = 0.00446

1.5' x 4' Box 924.46 E.

63'

12' x 48" RC Box

$Q_{cap}$ = 36.4 cfs

CITY DWG. No. R-2777

Exist. 4" Water

15' Tan.

LINE "C"

| | | | |
|---|---|---|---|
| CITY OF RIVERSIDE WATER SYSTEM | CITY OF RIVERSIDE OVERHEAD & UNDERGROUND | PACIFIC BELL CO. | SOUTHERN CALIFORNIA GAS CO. |
| BY: Richard L. Dodd | BY: M. Whitten | BY: Frank C. Greve / John Treat | BY: E. Rueda |
| DATE 1-13-89 | DATE 12/21/88 | DATE 7-19-88 | DATE 10-11-88 |

THOMSEN ENGINEERING, INC.
CIVIL ENGINEERING & LAND SURVEYING
16163 E. WHITTIER BLVD.
WHITTIER, CALIFORNIA 90609
APPROVED BY: Hans C. Thomsen DATE 4-15-88
R.C.E. NO. 8244
PHONE (213) 691-0838

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

DESIGNED BY B.N. DRAWN BY B.N., H.W. CHECKED BY R.S., H.T.

# CITY OF RIVERSIDE
## PUBLIC WORKS DEPARTMENT

| APPROVED BY | DATE | BY |
|---|---|---|
| PRINCIPAL ENGINEER | 1-13-89 | WE |
| PARK DEPARTMENT | | |
| TRAFFIC DIVISION | | |
| CHIEF P. W. ENGINEER | 1-17 | |
| | 1/13/89 | |

APPROVED BY Barry Bard
PUBLIC WORKS DIRECTOR
DATE 1/17/89

STORM DRAIN - PLAN & PROFILE
MP - 3 - 878
MARLBOROUGH AVENUE

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

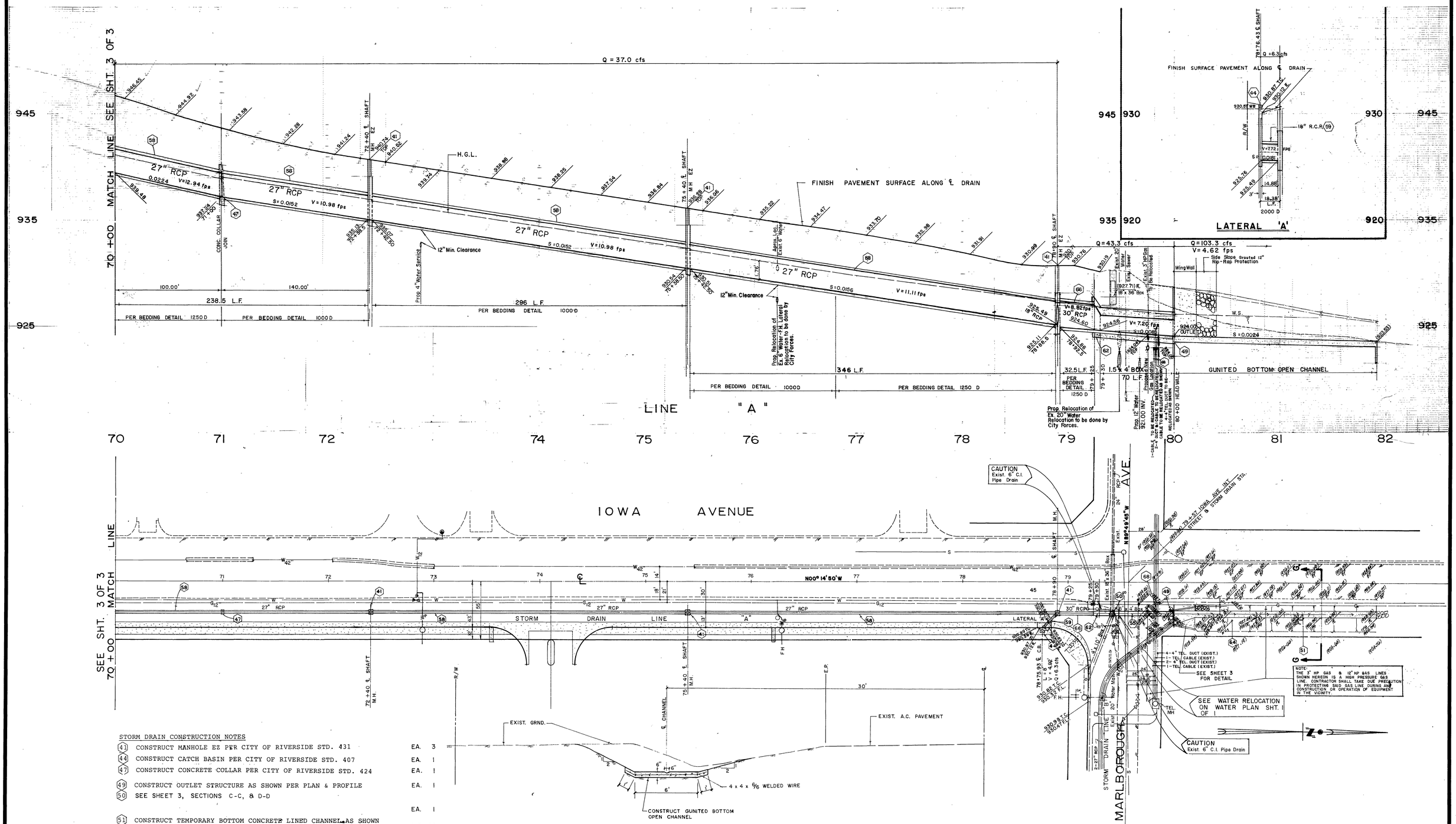
ACCOUNT NO. D-561

SHEET 1 OF 3

9-30-87

KARL

INDEXED 1-31-89




STORM DRAIN CONSTRUCTION NOTES

| | | | |
|---|---|---|---|
| 41 | CONSTRUCT MANHOLE EZ PER CITY OF RIVERSIDE STD. 431 | EA. | 3 |
| 44 | CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. 407 | EA. | 1 |
| 47 | CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. 424 | EA. | 1 |
| 49 | CONSTRUCT OUTLET STRUCTURE AS SHOWN PER PLAN & PROFILE | EA. | 1 |
| 50 | SEE SHEET 3, SECTIONS C-C, & D-D | EA. | 1 |
| 51 | CONSTRUCT TEMPORARY BOTTOM CONCRETE LINED CHANNEL AS SHOWN PER PLAN & PROFILE, & SECTION G-G | L.F. | 192 |
| 55 | CONSTRUCT 1.5'X'4 BOX | L.F. | 70 |
| 58 | INSTALL 27" R.C.P. | L.F. | 880.5 |
| 59 | INSTALL 18" R.C.P. | L.F. | 14.88 |
| 62 | SEE SHEET 3, SECTIONS A-A, & B-B. | EA. | 1 |
| 64 | WATER VALVE TO BE RELOCATED BY CITY FORCES. | EA. | 1 |
| 66 | INSTALL 30" R.C.P. | L.F. | 32.5 |
| 68 | TELEPHONE CABLE TO BE RELOCATED BY PACIFIC BELL | EA. | 1 |

CITY OF RIVERSIDE WATER SYSTEM
BY: Richard L. Dodds
DATE 1-13-89

CITY OF RIVERSIDE OVERHEAD & UNDERGROUND
BY: W Whittlesey
DATE 12/30/88

PACIFIC BELL CO.
For C. C. Greer
BY: John Trish
DATE 7-19-88

SOUTHERN CALIFORNIA GAS CO.
BY: G. C. Rucker
DATE 10-11-88

BENCH MARK

J8-A FD. BRASS DISK STAMPED (JB-A) CAPPED AT THE INTERSECTION OF ℄ MARLBOROUGH AVE. AND ℄ IOWA AVE.' FB717/65 ELEVATION 929.110

* As Built 2-4-91 Brian


THOMSEN ENGINEERING, INC.
CIVIL ENGINEERING & LAND SURVEYING
16163 E. WHITTIER BLVD.
WHITTIER, CALIFORNIA 90609
APPROVED BY Wm. C. Thomsen DATE 4/1987
R.C.E. No. 8244
PHONE (213) 691-0838


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

DESIGNED BY B.N. DRAWN BY H.W. & B.N. CHECKED BY R.S. & H.T.

# CITY OF RIVERSIDE
## PUBLIC WORKS DEPARTMENT

| APPROVED BY | DATE | BY |
|---|---|---|
| PRINCIPAL ENGINEER | 1-13-89 | |
| PARK DEPARTMENT | — | — |
| TRAFFIC DIVISION | — | — |
| CHIEF P. W. ENGINEER | 1-17 | |
| | 11/13/89 | |

APPROVED BY Barry Beal
PUBLIC WORKS DIRECTOR
DATE 1/17/89

MP - 3 - 878

STORM DRAIN - PLAN & PROFILE

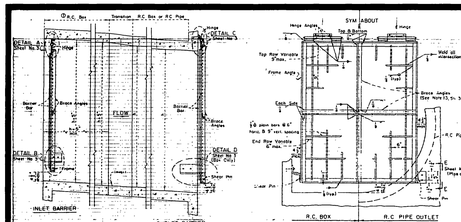
IOWA AVENUE

ACCOUNT NO. D-561

SHEET 2 OF 3

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

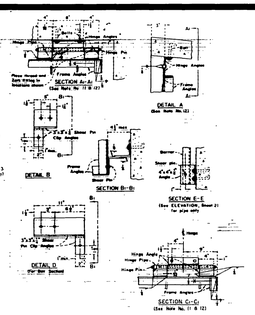
INDEXED 1-31-89 LH




SECTION
ALONG ℄




ELEVATION



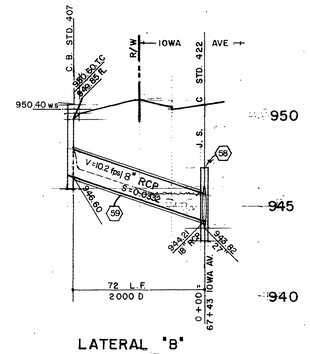

GENERAL NOTES:

1. Angles formed with sheet pile shall fit snugly and truly face to face.
2. The sheet pile tubes shall be divided so as to provide a tight fit with the sheet pile in place.
3. All sheet pile shall be plumbed on both ends after installation.
4. The aluminum sheet pile material will be furnished by the District to the Contractor.
5. All 5/8-inch diameter bolt holes shall be drilled in the angle legs of the angles.
6. All bolts shall be 5/8-inch ø threaded unbeveled a minimum of 4 inches into concrete or equivalent embedment depth, and shall be furnished with hex nuts and machine washers of same 5/8-inch size.
7. Flange bars and angle angles shall have the outstanding legs facing in the direction of flow for both ends and outside and face of sheet.
8. Thread ends of tongs at so that nuts and bars securely will be flush with the tongs angle. Damage threads behind the nut that will crack the bars.
9. Galvanize all ferrous parts after fabrication.
10. Cover all manmade concrete surfaces with a coat of waterproof grease prior to installation.
11. For barriers 36 inches and less in width one end tongs the full depth of barrier.
12. If the barrier width exceeds 12 feet, provide an additional tongs at the centerline of the barrier.
13. For barriers exceeding 4 feet in height or widths less thirty special at a minimum of 4 feet on center.
14. Sheet pile material shall be commercially pure aluminum alloy 6061, temper T4, Federal Specification QQ-A-200.
15. Refer to part 7 of the specifications for additional requirements and material specifications.

| Barrier No. | Frame Angles | Brace Angles | Brace Bar | Inner Flange Angles | Outer Flange Angles | Runner Bar | Runner Bar Angles |
|---|---|---|---|---|---|---|---|
| 1 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 2 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 3 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 4 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

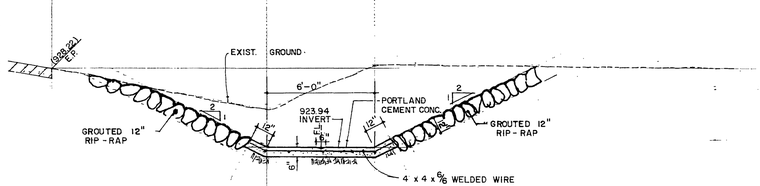
## PROTECTION BARRIER DETAIL

NTS (Ref. LACFCD STD. 2-D261.2)

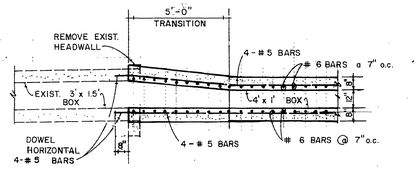



## LATERAL "B"

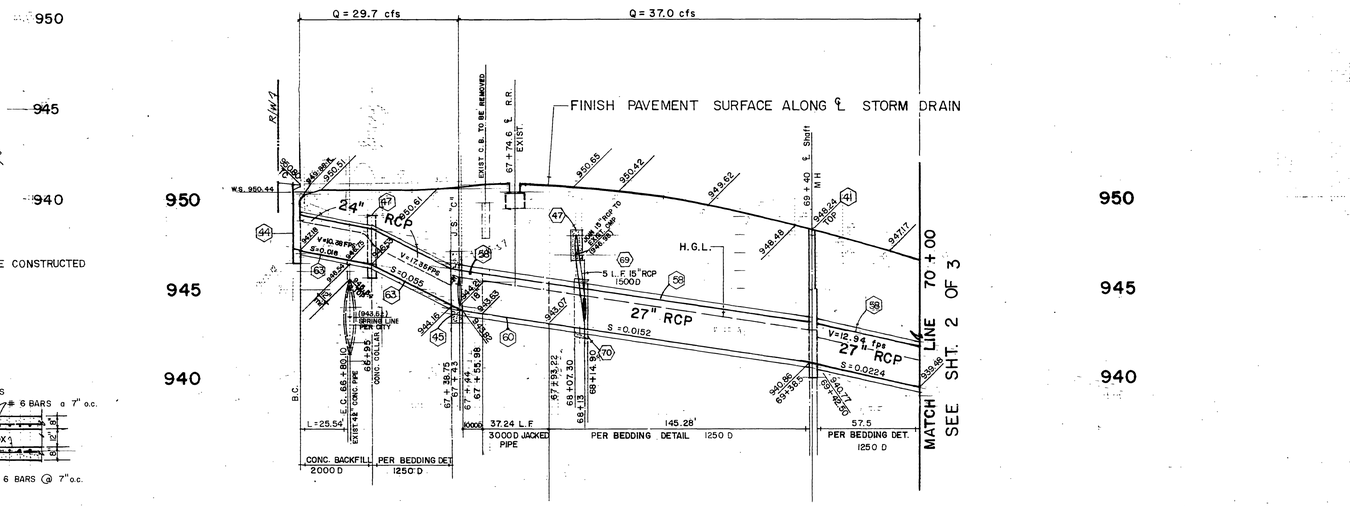
(PRIVATE STORM DRAIN TO BE CONSTRUCTED PER GRADING PLAN)



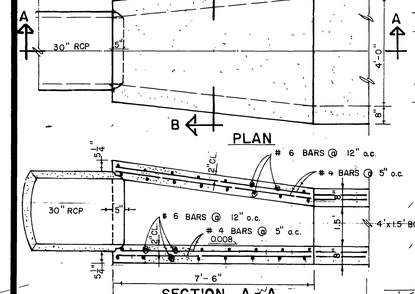

## SECTION E-E

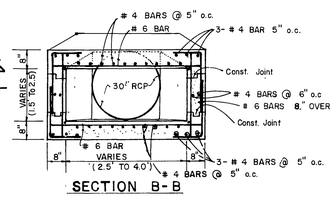



## SECTION D-D

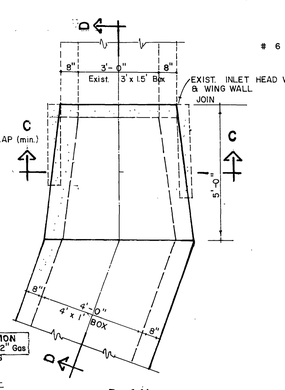


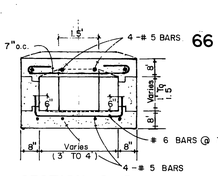

66 67 68 69 70




## SECTION B-B

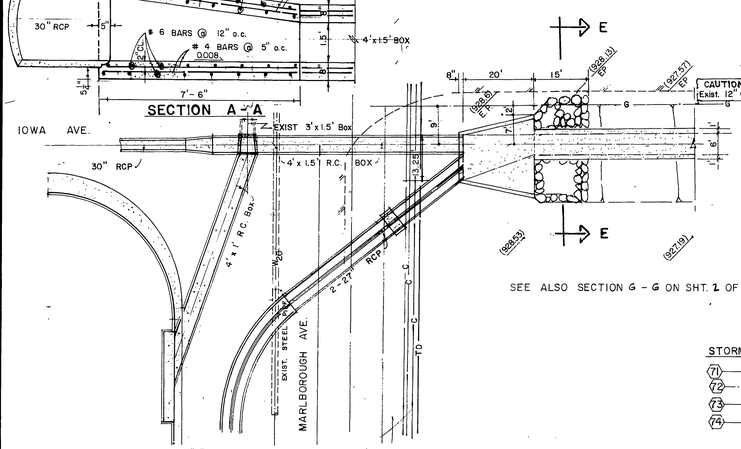


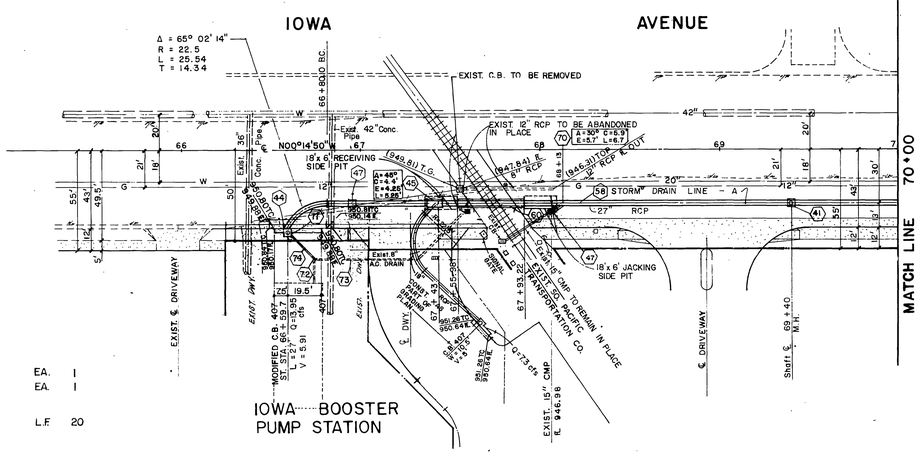

## SECTION C-C




## SECTION A-A




SEE ALSO SECTION G - G ON SHT. 2 OF 3




STORM DRAIN CONSTRUCTION NOTES (CONT.)

| | | | |
|---|---|---|---|
| 71 | CONNECT 8" A.C. DRAIN TO BACK OF CATCH BASIN | EA. | 1 |
| 72 | CUT Exist. 8" A.C. AND CONNECT NEW 8" A.C. DRAIN | EA. | 1 |
| 73 | PORTION OF Exist. 8" A.C. TO BE REMOVED | | |
| 74 | INSTALL 8" A.C. DRAIN | L.F. | 20 |

STORM DRAIN CONSTRUCTION NOTES

| | | | |
|---|---|---|---|
| 41 | CONSTRUCT MANHOLE EZ PER CITY OF RIVERSIDE STD. 431 | EA. | 1 |
| 44 | CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. 407 | EA. | 1 |
| 45 | CONSTRUCT JUNCTION STRUCTURE C PER CITY OF RIVERSIDE STD. 422 | EA. | 1 |
| 47 | CONSTRUCT CONC. COLLAR PER CITY OF RIVERSIDE STD. 424 | EA. | 2 |
| 58 | INSTALL 27" R.C.P. | L.F. | 215 |
| 60 | JACKED 27" PIPE | L.F. | 37.24 |
| 59 | INSTALL 18" RCP (PRIVATE DRAIN TO BE CONSTUCT AS PART OF GRADING PLAN) | L.F. | |
| 63 | INSTALL 24" RCP | L.F. | 58 |
| 69 | INSTALL 15" RCP | L.F. | 5 |
| 76 | CONSTRUCT JUNCTION STRUCTURE B PER CITY OF RIVERSIDE STD. 421 | EA. | 1 |

| CITY OF RIVERSIDE WATER SYSTEM | CITY OF RIVERSIDE OVERHEAD & UNDERGROUND | PACIFIC BELL CO. | SOUTHERN CALIFORNIA GAS CO. |
|---|---|---|---|
| BY: Richard L Durbin | BY: W Whittam | BY: For L C Rice John IRISH | BY: E A Mueller |
| DATE 1-13-89 | DATE 12/20/88 | DATE 1-19-89 | DATE 10-11-88 |

THOMSEN ENGINEERING, INC.
CIVIL ENGINEERING & LAND SURVEYING
16163 E. WHITTIER BLVD.
WHITTIER, CALIFORNIA 90609
APPROVED BY James C. Thomsen DATE 1-17-89
R.C.E. No. 8244
PHONE (213) 691-0838

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

DESIGNED BY B.N. DRAWN BY H.W.B.N. CHECKED BY R.S., H.T.

# CITY OF RIVERSIDE
## PUBLIC WORKS DEPARTMENT

| APPROVED BY | DATE | BY |
|---|---|---|
| PRINCIPAL ENGINEER | 1-13-89 | [illegible] |
| PARK DEPARTMENT | — | — |
| TRAFFIC DIVISION | — | — |
| CHIEF P. W. ENGINEER | 1-17 | [illegible] |
| | 1/13/89 | [illegible] |

APPROVED BY Barry Paul
PUBLIC WORKS DIRECTOR
DATE 1/17/89

MP - 3 - 878
STORM DRAIN - PLAN & PROFILE
IOWA AVENUE
FROM 66+54.46 TO 70+00

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

ACCOUNT NO. D-561
SHEET 3 OF 3

BENCH MARK
J8-A FD. BRASS DISK STAMPED (JB-A) CAPPED AT THE INTERSECTION OF ℄ MARLBOROUGH AVE. AND ℄ IOWA AVE. FB717/65 ELEVATION 929.110

*AS BUILT 2-6-91 Brian

3-30-89

INDEXED 1-31-89 GH