DE COUNTY FI DD CONTROL A D WATER CON. ERVATION DISTRICT

GEN

1. THE CONTR... ...ICT THE FLOOD CONTROL IMPROVEMENTS SHOWN ON THE DRAWINGS ... ...ANCE WITH THE REQUIREMENTS OF THE RIVERSIDE COUNTY FLOOD ... ...WATER CONSERVATION DISTRICT'S M.O.U. STANDARD SPECIFICATIONS ... ...R 1984, AND DESIGN MANUAL STANDARD DRAWINGS DATED MAY 19...

2. AN ENCROACHME... ...UIRED FROM RIVERSIDE COUNTY FLOOD CONTROL, CONTACT ED LOTZ ... 909/95... ...266, AFTER THE PERMIT IS ISSUED, THE DISTRICT MUST BE NOTIFIE... ...E WEEK PRIOR TO CONSTRUCTION.

3. CONSTRUCTION INS... ...TION W... ...BE PERFORMED BY RIVERSIDE COUNTY FLOOD CONTROL. CONTAC... ...DALE AS... ...SON AT 909/955-1288. THE DISTRICT MUST BE NOTIFIED TWO WEE... ...PRIO... ...ONSTRUCTION.

4. ALL STATIONING REFERS TO ... ...TERLINE OF CONSTRUCTION UNLESS OTHERWISE NOTED.

5. STATIONING FOR LATERALS ... ...ONNECTOR PIPE REFER TO THE CENTERLINE INTERSECTION STATIONS

6. FORTY-EIGHT HOURS BEFORE EXCAVATION, CALL UNDERGROUND SERVICE ALERT 1-800-422-4133.

7. ALL ELEVATIONS SHOWN ARE ... FEET AND DECIMALS THEREOF ON U.S.C. AND G.S. DATUM.

8. ALL CROSS SECTIONS ARE ...KEN LOOKING DOWNSTREAM.

9. ELEVATIONS OF UTILITIES ARE APPROXIMATE UNLESS OTHERWISE NOTED, 48 HOURS BEFORE EXCAVATION CALL UNDERGROUND SERVICE ALERT AT 1-800-227-2600. ALL UTILITIES SHALL BE PROTECTED IN ... PLACE EXCEPT AS NOTED ON PLANS AND SPECIFICATIONS.

10. PIPE CONNECTED TO THE MAINLINE PIPE SHALL CONFORM TO JUNCTION STRUCTURE NO. 4 (JS 229) UNLESS OTHERWISE NOTED.

11. BEDDING PIPE SHALL CONF... ...TO RCFC & WCD STD. M815, EXCEPT FOR COVER <2 FEET. FOR COVER ≤2 FE... CONCRETE SLURRY (2000psi-2 SACK) SHALL BE USED. THE ENTIRE TRENCH SHALL BE SLURRY EXTENDING 4 INCHES MINIMUM AND 12 INCHES MAXIMUM ABOVE ... TOP OF THE PIPE.

12. "V" IS THE DEPTH OF INLE... ... CATCH BASINS MEASURED FROM TOP OF CURB TO INVERT OF CONNECTOR PIPE

13. CATCH BASINS SHALL BE LOCATED SO THAT DEPRESSION SHALL BEGIN AT EXISTING CURB RETURN JOINTS, UNLESS OTHERWISE SPECIFIED.

14. STANDARD DRAWING CALLED FOR ON THE PLAN AND PROFILE SHALL CONFORM TO R.C.F.C. & W.C.D STD. DRAWINGS OR COUNTY/CITY/CALTRANS STANDARD PLANS.

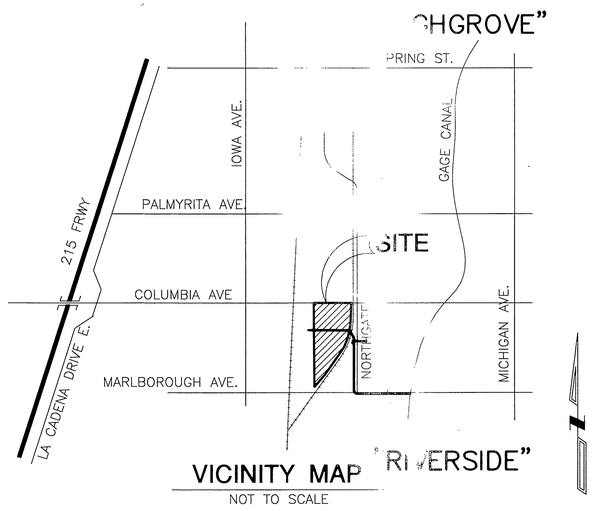
15. THE CONTRACTOR IS REQUIRED TO CALL ALL UTILITY AGENCIES REGARDING TEMPORARY SHORING AND SUPPORT REQUIREMENTS FOR THE VARIOOUS UTILITY LINES SHOWN ON THESE PLANS.

16. DURING ROUGH GRADING OPERATIONS AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTIONS, TEMPORARY DRAINAGE CONTROL SHOULD BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO ADJACENT PROPERTIES.

17. APPROVAL OF THESE PLANS BY THE RIVESIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT DOES NOT RELIEVE THE DEVELOPER'S ENGINEER OF RESPONSIBILITY FOR THE ENGINEERING DESIGN. IF FIELD CHANGES ARE REQUIRED, IT WILL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER TO MAKE THE NECESSARY CORRECTIONS.

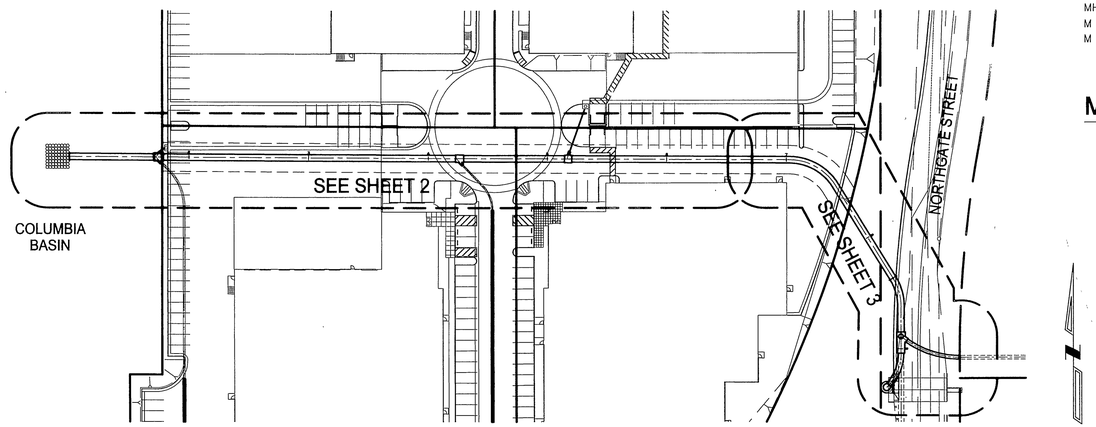
18. THE CONTRACTOR OR DEVELOPER SHALL SECURE ALL PERMITS REQUIRED FROM THE RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT PRIOR TO THE COMMENCEMENT OF ANY WORK.

19. THE CONCRETE COVER ON THE INSIDE OF ALL REINFORCED CONCRETE PIPE MUST BE INCREASED TO PROVIDE A MINIMUM OF 1-1/2" OVER THE REINFORCING WHEN THE DESIGN VELOCITIES EXCEED 20 FEET PER SECOND. THE CONCRETE DESIGN STRENGHT IN THESE REACHES SHALL BE Fc=5,000 psi FOR VELOCITIES EXCEEDING 20 FEET PER SECOND AND Fc=6,000 psi FOR VELOCITIES EXCEEDING 30 FEET PER SECOND. (C225h)



VICINITY MAP

NOT TO SCALE



INDEX MAP

1" = 60'

INDEX SHEETS

TITLE SHEET.	SHEET 1
PLAN & PROFILE	SHEET 2
PLAN & PROFILE.	SHEET 3

R.C.F.C.&W.C.D. STANDARD DRAWINGS

CB 108	INLET TYPE X
JS 227	JUNCTION STRUCTURE NO. 4
MH 252	MANHOLE NO. 2
MH 254	MANHOLE NO. 4
M 803	CONCRETE COLLAR
M 816	CONCRETE BULKHEAD

MAINTENANCE NOTES

THE FOLLOWING ITEMS ARE TO BE INSPECTED AND MAINTAINED BY RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT:

66" RCP FROM STATION 1+00.00 TO STATION 8+86.47 AS SHOWN ON SHEET 3

54" RCP FROM STATION 8+99.87 TO STATION 9+07.87 AS SHOWN ON SHEET 3

ALL MANHOLES AMD OTHER STRUCTURES REQUIRED TO COMPLETE THE CONSTRUCTION OF THE ABOVE MENTIONED PIPE, EXCEPT LINES "B" AND "C".

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.

CITY OF RIVERSIDE

SIGNATURE ... DATE: 12/23/02

D-717

Dig...Until You Call U.S.A. Toll Free 1-800-227-2600 for the location of buried utility lines. Don't disrupt vital services.

TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK

CITY OF RIVERSIDE B.M. NO. J8-H3

LEAD AND TACK IN THE TOP OF NORTHWEST CORNER OF A CATCH BASIN ON THE SOUTHWEST CORNER OF PALMYRITA AVENUE AND NORTHGATE STREET - SOUTHERLY, SPACE.

ELEV: 981.648

REF.	REVISIONS	APPR.	DATE

REGISTERED PROFESSIONAL ENGINEER ALLEN W. MARTIN No. C 38463 EXP. 3-31-05 CIVIL STATE OF CALIFORNIA

Southland Engineering
2200 BUSINESS WAY, ST 100
RIVERSIDE, CA. 925
(909) 798-8488

PREPARED UNDER THE SUPERVISION OF

ALLEN W. MARTIN DATE 12/19/02
R.C.E. 38463 EXP. 3-31-05

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: RV
DRAWN BY: BC
DATE DRAWN: APRIL 2002
CHECKED BY: AWM

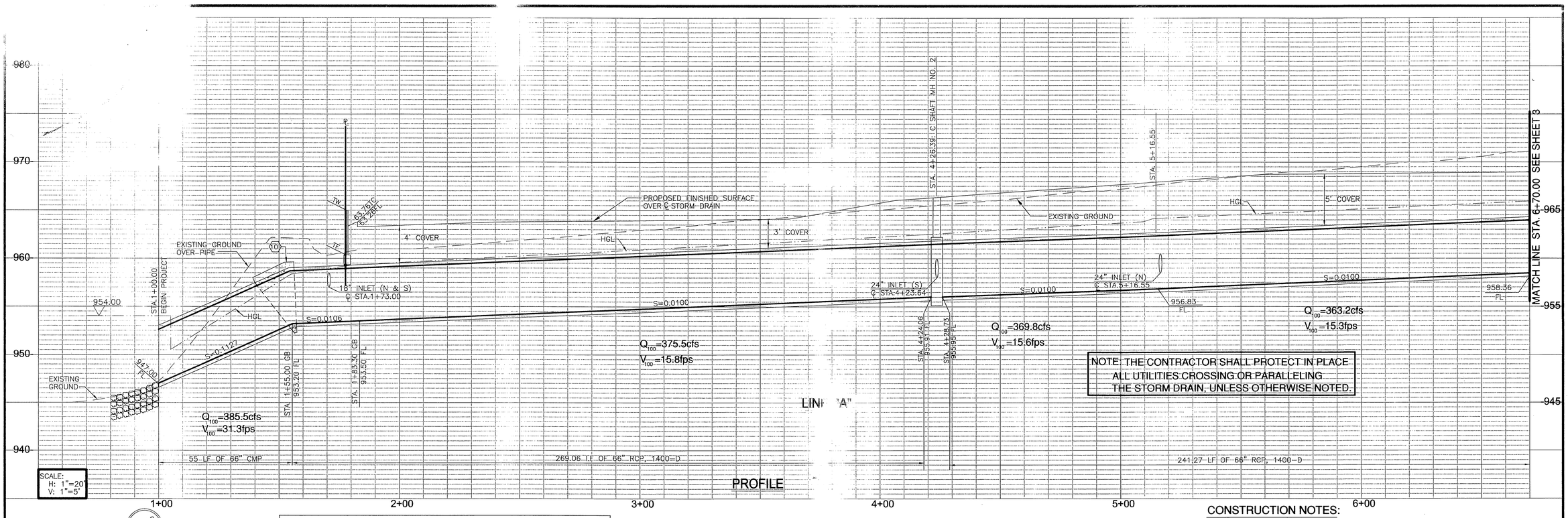
RECOMMENDED FOR APPROVAL BY: CHIEF PLANNING DATE: 12/30/02

APPROVED BY: CHIEF ENGINEER DATE: 12/30/02

UNIVERSITY AREA MDP LINE 6-A
STAGE 1
STORM DRAIN
TITLE SHEET

PROJECT NO. 1-0125
DRAWING NO. 1-614
SHEET NO. 1 OF 3

INDEXED 1-2-03 GH

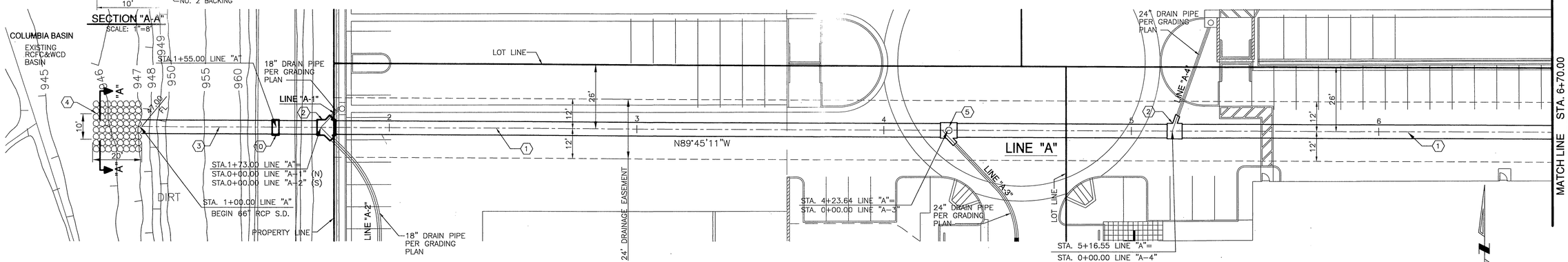


SECTION "A-A"
SCALE: 1"=8'

✳ THE CONCRETE COVER ON THE INSIDE OF ALL REINFORCED CONCRETE PIPE MUST BE INCREASED TO PROVIDE A MINIMUM OF 1-1/2" OVER THE REINFORCING WHEN THE DESIGN VELOCITIES EXCEED 20 FEET PER SECOND. THE CONCRETE DESIGN STRENGTH IN THESE REACHES SHALL BE Fc=5,000 psi FOR VELOCITIES EXCEEDING 20 FEET PER SECOND AND Fc=6,000 psi FOR VELOCITIES EXCEEDING 30 FEET PER SECOND. (C225h)

CONSTRUCTION NOTES:

1. CONSTRUCT 66" DIA. RCP STORM DRAIN 1400D
2. CONSTRUCT JUNCTION STRUCTURE NO.4 PER RCFC&WCD STD. JS229
3. CONSTRUCT 66" DIA. CMP STORM DRAIN
4. CONSTRUCT 1/2 TON RIP RAP W/NO.2 BACKING AND FILTER FABRIC
5. CONSTRUCT MAN HOLE NO. 2 PER RCFC&WCD STD. DWG. NO. MH252
10. CONSTRUCT CONCRETE COLLAR PER RCFC&WCD STD. DWG. NO. M803



PLAN

PIPE DATA

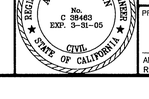
	BEARING/DELTA	LENGTH	RADIUS	TANGENT
◯				
1	N89°45'11"W	570.00'	---	---

SCALE: 1" = 20'
20' 10' 0' 10' 20' 40'

D-717

Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600 for the location of buried utility lines. Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK
B.M. NO. J8-H3
LEAD & TACT IN TOP OF CONCRETE OF CATCH BASIN, LOCATED IN THE NORTHWEST CORNER OF CATCH OF BASIN IN THE SOUTHWEST CORNER OF PALMYRITA AVENUE AND NORTHGATE SOUTHERLY.
ELEV. 981.648



Southland Engineering
2200 BUSINESS WAY, Ste. 100
RIVERSIDE, CA. 92501
(909) 788-8488

PREPARED UNDER THE SUPERVISION OF
ALLEN W. MARTIN R.C.E. 38463 EXP. 3-31-05 DATE 12/19/02

REF.	DESCRIPTION	APPR.	DATE
	REVISIONS		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: RV
DRAWN BY: BC
DATE DRAWN: APRIL 2002
CHECKED BY: AWM

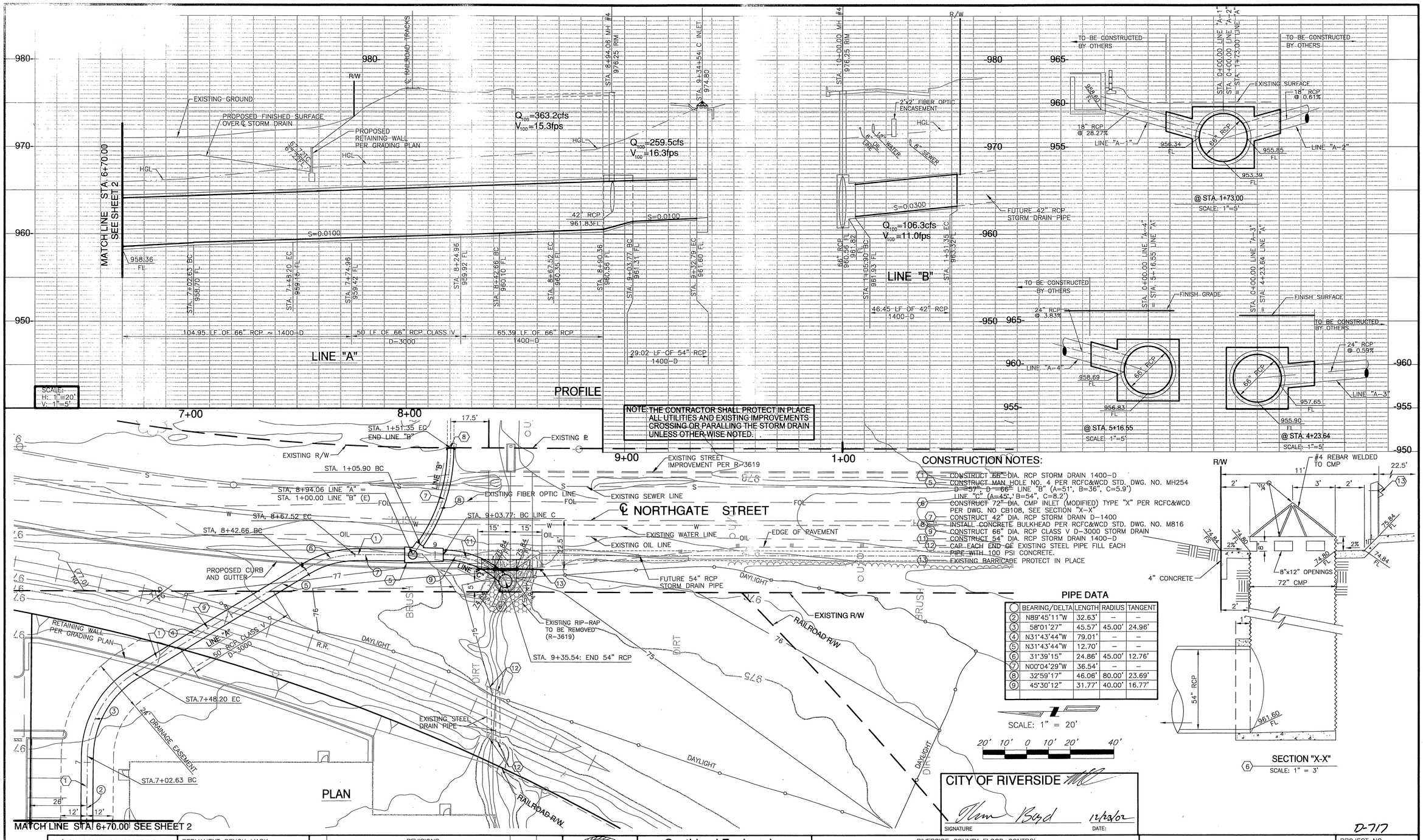
RECOMMENDED FOR APPROVAL BY: Michael D. Ramos DESIGN ENGINEER DATE: 12/30/02

APPROVED BY: David Ryan CHIEF ENGINEER DATE: 12/30/02

UNIVERSITY AREA MDP LINE 6-A
STAGE 1
STORM DRAIN PLAN AND PROFILE
FROM STA. 10+00.00 TO STA. 6+70.00

PROJECT NO. 1-0125
DRAWING NO. 1-614
SHEET NO. 2 OF 3

INDEXED 1-2-03 GH



CONSTRUCTION NOTES:

1. CONSTRUCT 66" DIA. RCP STORM DRAIN 1400-D
5. CONSTRUCT MAN HOLE NO. 4 PER RCFC&WCD STD. DWG. NO. MH254 D=57", D=66" LINE "B" (A=51', B=36', C=5.9') LINE "C" (A=45', B=54", C=8.2')
6. CONSTRUCT 72" DIA. CMP INLET (MODIFIED) TYPE "X" PER RCFC&WCD PER DWG. NO CB108, SEE SECTION "X-X"
7. CONSTRUCT 42" DIA. RCP STORM DRAIN D-1400
8. INSTALL CONCRETE BULKHEAD PER RCFC&WCD STD. DWG. NO. M816
9. CONSTRUCT 66" DIA. RCP CLASS V D-3000 STORM DRAIN
11. CONSTRUCT 54" DIA. RCP STORM DRAIN 1400-D
12. CAP EACH END OF EXISTING STEEL PIPE FILL EACH PIPE WITH 100 PSI CONCRETE.
13. EXISTING BARRICADE PROTECT IN PLACE

PIPE DATA

	BEARING/DELTA	LENGTH	RADIUS	TANGENT
2	N89°45'11"W	32.63'	–	–
3	58°01'27"	45.57'	45.00'	24.96'
4	N31°43'44"W	79.01'	–	–
5	N31°43'44"W	12.70'	–	–
6	31°39'15"	24.86'	45.00'	12.76'
7	N00°04'29"W	36.54'	–	–
8	32°59'17"	46.06'	80.00'	23.69'
9	45°30'12"	31.77'	40.00'	16.77'

SCALE: 1" = 20'

20' 10' 0 10' 20' 40'

SECTION "X-X"
SCALE: 1" = 3'

CITY OF RIVERSIDE

SIGNATURE DATE: 12/23/02

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REVISIONS			
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REGISTERED PROFESSIONAL ENGINEER ALLEN W. MARTIN No. C 38483 EXP. 3-31-05 CIVIL STATE OF CALIFORNIA

Southland Engineering
2200 BUSINESS WAY, Ste. 100
RIVERSIDE, CA. 92501
(909) 788-8488

PREPARED UNDER THE SUPERVISION OF
ALLEN W. MARTIN R.C.E. 38483 EXP. 3-31-05 DATE 12/19/02

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DESIGNED BY: RV
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UNIVERSITY AREA MDP LINE 6-A
STAGE 1
STORM DRAIN PLAN AND PROFILE
FROM STA. 6+70.00 TO STA. 8+90.17

PROJECT NO. 1-0125
DRAWING NO. 1-614
SHEET NO. 3 OF 3

INDEXED 1-2-03 GH