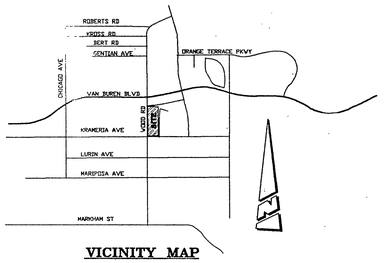
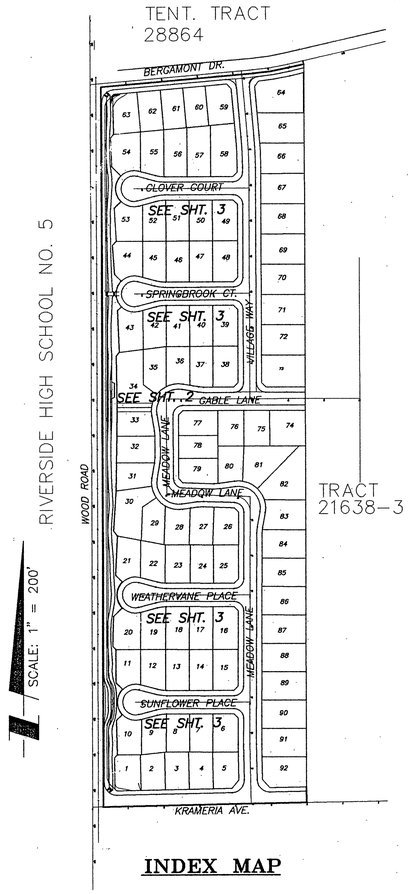
STORM DRAIN IMPROVEMENT PLANS

TRACT 28628 IN THE CITY OF RIVERSIDE



VICINITY MAP
N.T.S.



INDEX MAP

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 DEPT. OF PUBLIC WORKS, STD. DWGS., THEIR 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. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
5. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
7. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
8. TRIM EDGE OF EXISTING PAVEMENT WHERE NEW PAVEMENT JOINS TO A SMOOTH, STRAIGHT LINE. CONSTRUCT MATCH-UP PAVING AS SHOWN ON PLAN AND OVERLAY PAVING AS DIRECTED IN THE FIELD TO PRODUCE A SMOOTH SECTION.
9. ALL STATIONING REFERS TO CENTERLINE OF CONSTRUCTION UNLESS OTHERWISE NOTED. STATIONING FOR LATERALS AND CONNECTOR PIPES REFER TO THE CENTERLINE-CENTERLINE INTERSECTION.
10. HOURS OF OPERATION ARE 7 A.M. TO 6 P.M. MONDAY THROUGH FRIDAY. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
11. 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.
12. THE DEVELOPER AND/OR CONTRACTOR SHALL CONTACT THE STREET DIVISION (351-6127) TO PICK UP ANY EXISTING STD. 180 BARRICADES THAT ARE BEING REMOVED. THE CITY'S INSPECTOR WILL MAKE THE FINAL DETERMINATION ON WHETHER A BARRICADE CAN BE RELOCATED.
13. 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.
18. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (U.S.A.), PHONE No. 1-800-227-2600, 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.
19. BEFORE THE RIPRAP 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.
20. ALL CROSS SECTIONS ARE TAKEN LOOKING DOWNSTREAM.
21. CONTRACTOR TO VERIFY EXISTING STORM DRAIN ELEVATIONS PRIOR TO CONSTRUCTION.
22. PIPE BEDDING SHALL BE PER CITY OF RIVERSIDE STD. DWG. No. 452, CASE I, UNLESS OTHERWISE SPECIFIED.
23. THE STORM DRAIN CONTRACTOR SHALL ADJUST STORM DRAIN MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.

HOLD HARMLESS INDEMNIFICATION CLAUSE

THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY OF RIVERSIDE, THE OWNER, AND THE PRIVATE ENGINEERS HARMLESS FOR ANY AND ALL LIABILITY; REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

EXISTING UNDERGROUND STRUCTURES

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPE STRUCTURES OR CONDUITS 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 AS SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS.

NOTICE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

CONSTRUCTION NOTES AND QUANTITY ESTIMATE

	ITEM DESCRIPTION	UNIT	QUANTITY
(20)	CONST. 15" RCP - CL IV	L.F.	6
(21)	CONST. 18" RCP - CL IV	L.F.	124
(22)	CONST. 24" RCP (D-LOAD PER PLAN).	L.F.	13
(23)	CONST. 36" RCP (D-LOAD PER PLAN).	L.F.	399
(24)	CONST. 48" RCP (D-LOAD PER PLAN).	L.F.	78
(25)	CONSTRUCT CATCH BASIN PER CITY STD. 405 W &V PER PLAN.	EA.	7
(26)	CONSTRUCT CURB OUTLET PER CITY STD. 410 WITH MODIFIED EXTENDED BOX.	EA.	4
(27)	JOIN EXIST. 48" RCP.	EA.	1
(28)	REMOVE EXIST. STORM DRAIN PER PLAN.	EA.	1
(29)	JOIN EXIST. 36" RCP.	EA.	1
(31)	CONST. MANHOLE AX PER CITY STD. 430.	EA.	1
(32)	CONST. JUNCTION STRUCTURE B PER CITY STD. 421.	EA.	2
(33)	CONST. JUNCTION STRUCTURE NO. 4 PER CITY 423 CASE 2.	EA.	1
(34)	CONST. JUNCTION STRUCTURE C PER CITY 422.	EA.	1

REVIEW BY:
WESTERN MUNICIPAL WATER DISTRICT
for Non-Interference Compliance

SHEET 1 THROUGH 3

CIVIL ENGINEER R.C.E. 46212 2/C43
DATE: 4/16/99

CHECKED OUT to DICK YACE @ KEITH G.

CHARTER COMMUNICATIONS
APPROVED BY 1-8-99 DATE

CITY OF RIVERSIDE
PUBLIC UTILITIES DEPT.-ELECTRIC
OVERHEAD AND UNDERGROUND
APPROVED BY 4-14-99 DATE

TELEPHONE
APPROVED BY 4-5-99 DATE

SOUTHERN CALIFORNIA GAS COMPANY
APPROVED BY 4/8/99 DATE

CITY BUSINESS TAX CERTIFICATION NO. 033595 EXP. DATE 4/2/00

Underground Service Alert
Call TOLL FREE 1-800 227-2600
TWO WORKING DAYS BEFORE

PRIVATE ENGINEERING NOTE

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BENCHMARK

RIVERSIDE COUNTY BENCHMARK, STAMPED V88-84 AT SOUTHWEST CORNER OF PLUMMER ROAD AND VAN BUREN BOULEVARD, 259.0 FEET SOUTH OF VAN BUREN BOULEVARD, 205.0 FEET WEST OF PLUMMER ROAD, ON THE TOP OF A 4.0 FOOT x 10.0 FOOT GRANITE BOULDER A BRASS DISK FLUSH AND MARKED.
ELEV. 1636.123

REGISTERED PROFESSIONAL ENGINEER
Civil
George A. Lenfestey
No. 45920
Exp.12-31-02
STATE OF CALIFORNIA

KEITH INTERNATIONAL, INC.
• Planning • Civil Engineering • Environmental Services •
• Land Surveying • Public Works • Water Resources •
Inland Empire Division
22890 Cactus Ave., Ste. 300, Moreno Valley, CA 92553 (909) 653-0854

APPROVED BY:
DATE: 4/7/99
GEORGE A. LENFESTY R.C.E. NO. 45920
REGISTRATION EXPIRES 12-31-02

MARK	REVISIONS	APPR.	DATE

DESIGNED BY LHL DRAWN BY LHL CHECKED BY MS

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

	DATE	BY
APPROVED		
PRINCIPAL ENG.	7/7/99	
PARK DEPARTMENT		
TRAFFIC DIVISION		
P.W. ENGR. MANAGER	7/22/99	
STREET SERVICES	7/8/99	

R. McGrath
PUBLIC WORKS DIRECTOR
DATE 7-23-99

STORM DRAIN IMPROVEMENT PLANS
TRACT 28628
TITLE SHEET

HORIZ. SCALE: AS SHOWN VERT. SCALE:

ACCOUNT NO. 31377
D-664
SHEET 1 OF 3

INDEXED 9-9-99 GH

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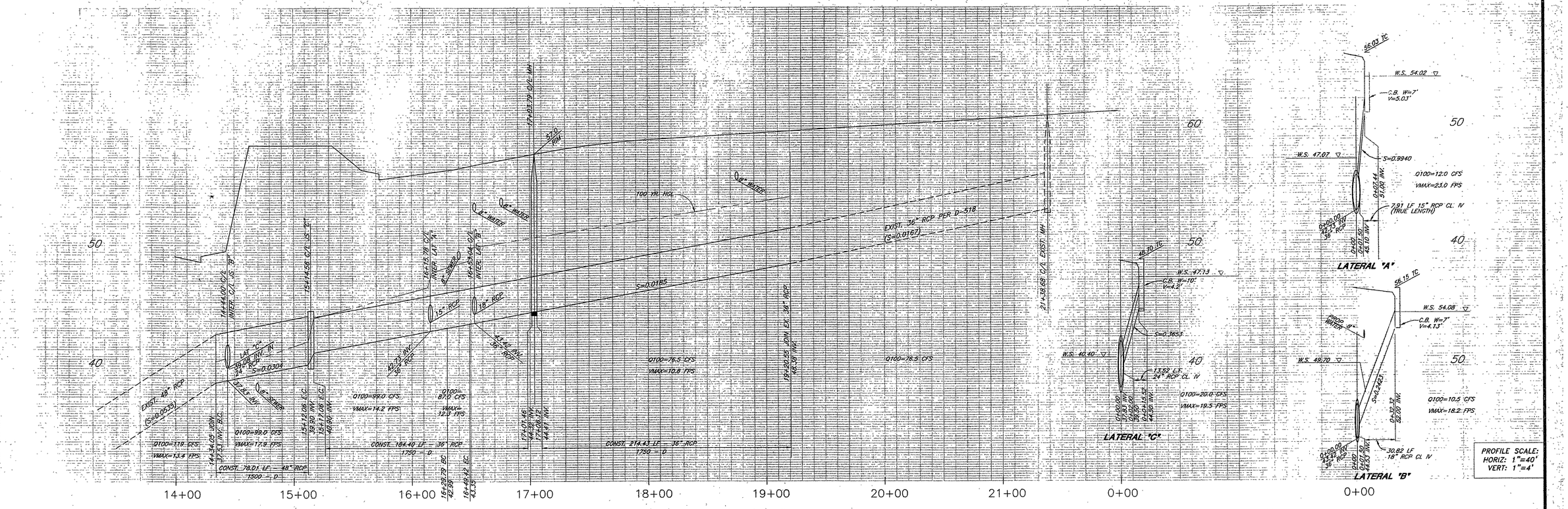

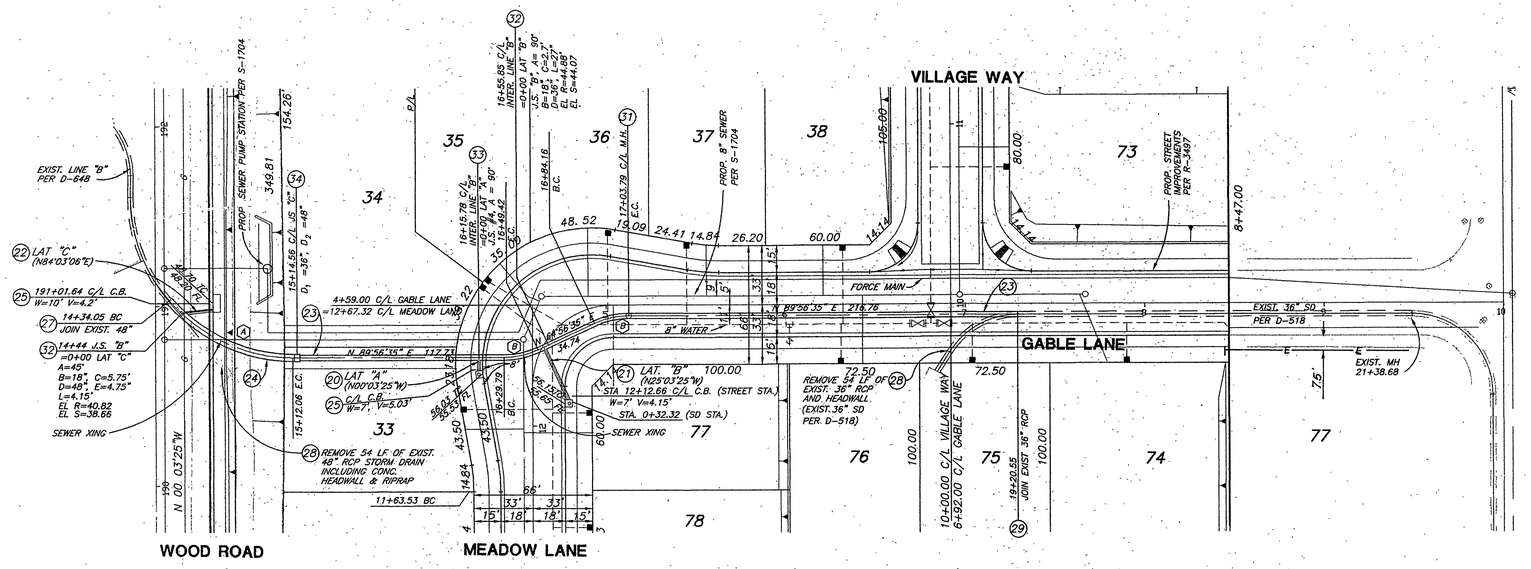

CONSTRUCTION NOTES:

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34. CONST. JUNCTION STRUCTURE C PER CITY STD. 422.

GRAPHIC SCALE 40 0 20 40 80

CHECKED OUT TO DICK YALE @ KEITH G.

LINE "B"

DATA

	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
A	49°39'53"	90.00	78.01	41.65
B	25°00'00"	45.00	19.63	9.98

CITY BUSINESS TAX CERTIFICATION NO. 033595 EXP. DATE 4/2/00

CALL BEFORE YOU DIG — Underground Service Alert — Call TOLL FREE 1-800 227 2600 — TWO WORKING DAYS BEFORE

PRIVATE ENGINEERING NOTE

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BENCHMARK

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ELEV. 1638.123

REGISTERED PROFESSIONAL ENGINEER — Civil — George A. Lenfestey No. 45920 Exp.12-31-02 — STATE OF CALIFORNIA

KEITH INTERNATIONAL, INC. — Planning • Civil Engineering • Environmental Services • Land Surveying • Public Works • Water Resources — Inland Empire Division — 22830 Castur Ave., Ste. 300, Moreno Valley, CA 92553 (909) 653-0224

APPROVED BY: [signature] DATE: 4/7/99

GEORGE A. LENFESTEY R.C.E. NO. 45920 REGISTRATION EXPIRES 12-31-02

MARK	REVISIONS	APPR.	DATE

DESIGNED BY LHL DRAWN BY LHL CHECKED BY MS

CITY OF RIVERSIDE — PUBLIC WORKS DEPARTMENT

	DATE	BY
APPROVED BY		
PRINCIPAL ENGINEER	7/7/99	
PARK DEPARTMENT		
TRAFFIC DIVISION		
P.W. ENGR. MANAGER	7/8	7/12/99
STREET SERVICES	4/5/99	

R. M. Gratt — PUBLIC WORKS DIRECTOR — DATE 7-23-99

STORM DRAIN IMPROVEMENT PLANS
TRACT 28628
WOOD ROAD & GABLE LANE
LINE "B" STORM DRAIN

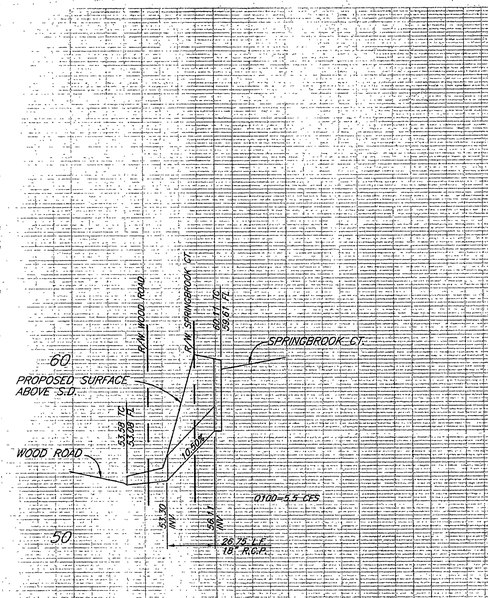
HORIZ. SCALE: 1"= 40' VERT. SCALE: 1"= 4'

ACCOUNT NO. 31377

D-664

SHEET 2 OF 3

INDEXED 9-9-99 GH



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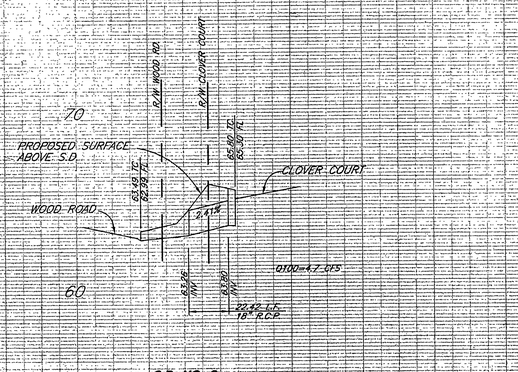

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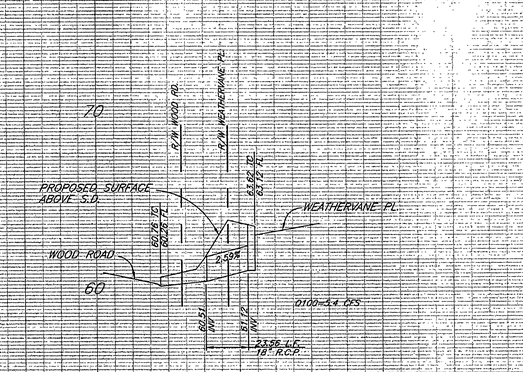

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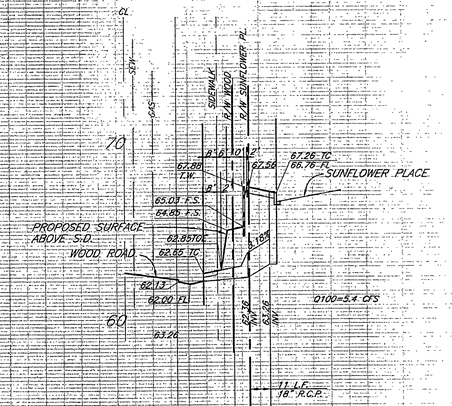

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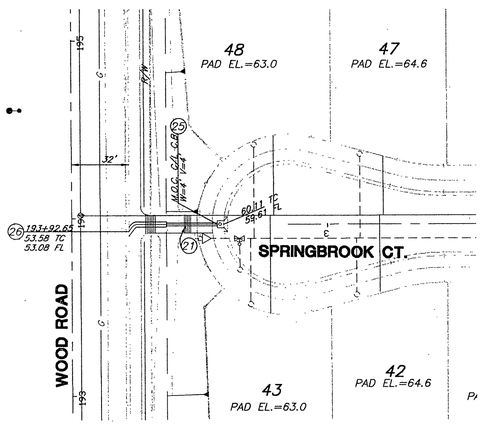

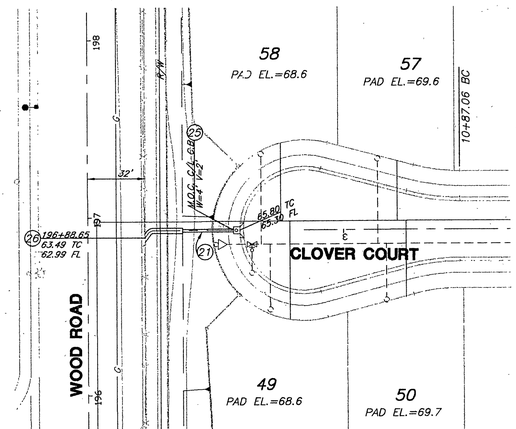

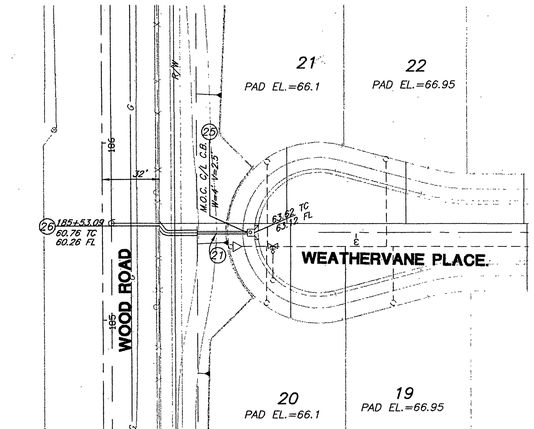

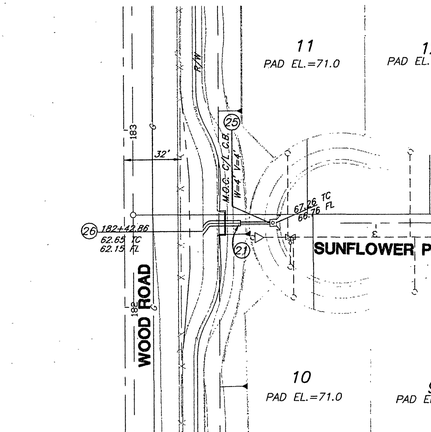

PROFILE SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

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40 0 20 40 80
GRAPHIC SCALE

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Civil
George A. Lenfesty
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KEITH INTERNATIONAL, INC.
•Planning • Civil Engineering • Environmental Services•
•Land Surveying • Public Works • Water Resources•
Inland Empire Division
28690 Cactus Ave., Ste. 300, Moreno Valley, CA 92555 (909) 653-0234

APPROVED BY:
DATE: 4/1/99
GEORGE A. LENFESTY R.C.E. NO. 45920
REGISTRATION EXPIRES 12-31-02

MARK	REVISIONS	APPR.	DATE
DESIGNED BY LHL	DRAWN BY LHL	CHECKED BY MS	

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

	DATE	BY
APPROVED BY		
PRINCIPAL ENGINEER	7/7/99	[illegible]
PARK DEPARTMENT		
TRAFFIC DIVISION		
P.W. ENGR. MANAGER	7/13/99	[illegible]
STREET SERVICES	4-8-99	[illegible]

R. Mc Gratt
PUBLIC WORKS DIRECTOR
DATE 7-23-99

STORM DRAIN IMPROVEMENT PLANS
TRACT 28628
SPRINGBROOK, CLOVER, WEATHERVANE, SUNFLOWER STORM DRAIN
HORIZ. SCALE: 1"= 40' VERT. SCALE: 1"= 4'

ACCOUNT NO. 31377
D-664
SHEET 3 OF 3

INDEXED 9-9-99 GH

Plotted: 00/24/99 19:07:08 - N:\31377\000\dwg\Pr=a03.dwg