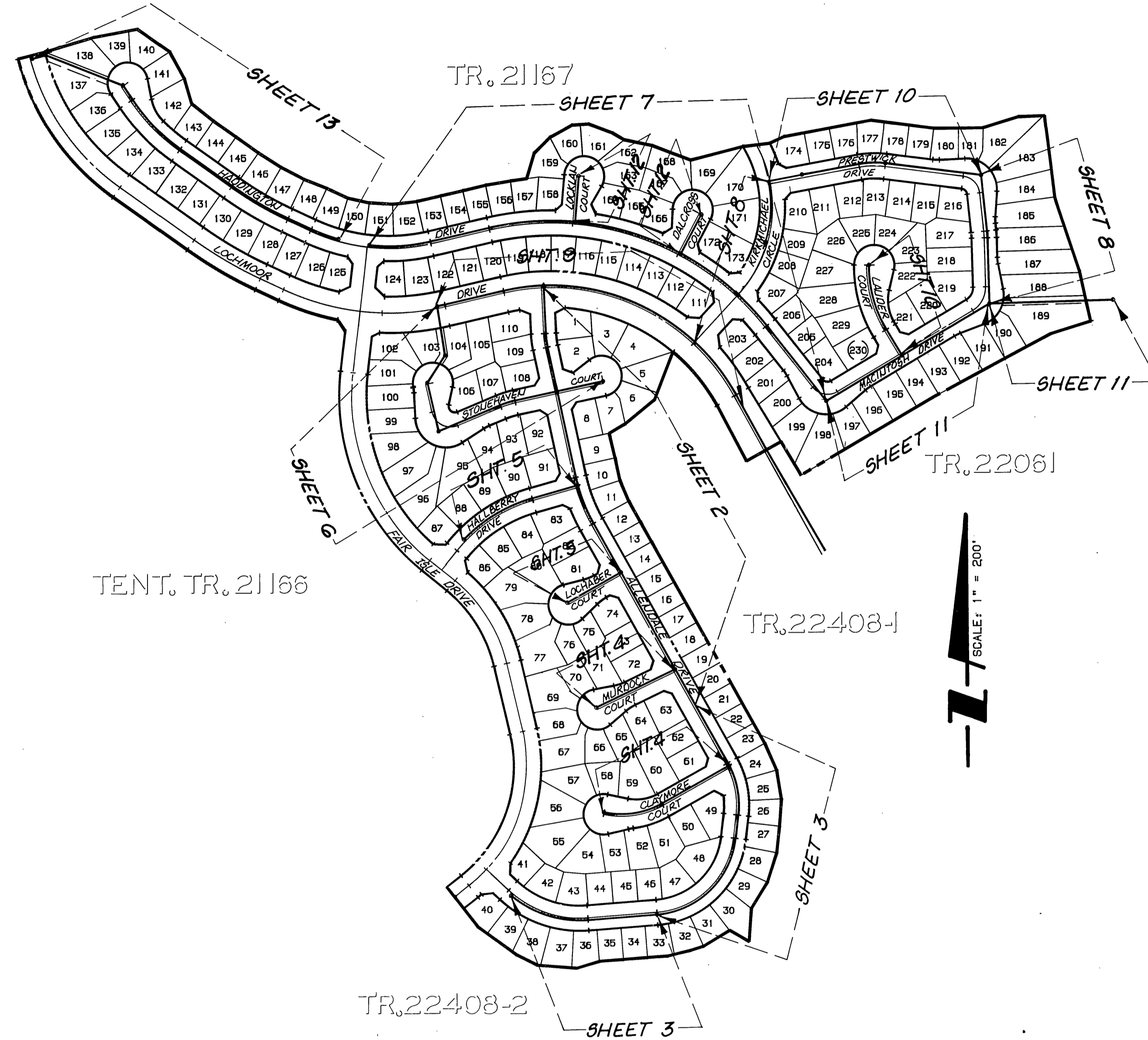


VICINITY MAP
NOT TO SCALE

LUSK HIGHLANDER SEWER IMPROVEMENT PLANS

TRACT 22408
IN THE CITY OF RIVERSIDE



INDEX MAP
SCALE: 1" = 200'

GENERAL NOTES

- 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 OR THE LUSK COMPANY.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
- 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.
- QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE AND OR THE LUSK COMPANY IS NOT RESPONSIBLE FOR THEIR ACCURACY.
- 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.
- ON ALL AREAS WITHIN PUBLIC RIGHT-OF-WAY, WHERE THE FILL IS ONE (1) FOOT OR GREATER, A LETTER WILL BE REQUIRED FOR THE SOILS ENGINEER, CERTIFYING THE COMPACTION OF THE FILL BELOW SUBGRADE, PRIOR TO ISSUANCE OF THE CONSTRUCTION PERMIT/CUT SHEETS.
- 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.
- CONTRACTOR IS TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION.
- LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE OWNER. AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.
- NO FINISHED FLOOR ELEVATION SHALL BE LESS THAN 4' ABOVE THE SEWER FLOW LINE AT POINT OF CONNECTION WITHOUT HAVING A PROPER BACKWATER VALVE INSTALLED IN THE LATERAL.
- 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.
- THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
- ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.

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

- CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
- CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD 500
- CONSTRUCT 4" VCP LATERAL PER CITY STD. 562
- ADJUST SEWER MANHOLE TO GRADE
- CONSTRUCT CONCRETE SEWER ENCASEMENT PER CITY STD. CWD-022 & 023

SEWER QUANTITY ESTIMATE

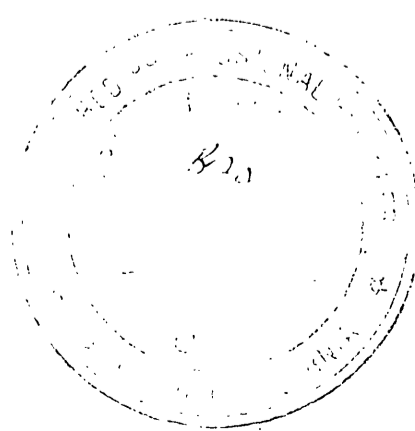
NO.	DESCRIPTION	QUANTITY	UNIT
1	8" VCP SEWER	8712	L.F.
2	MANHOLES PER CITY STD. NO. 500	44	EA.
3	4" LATERAL PER CITY STD. NO. 562	8,300	L.F.
4	ADJUST SEWER MANHOLE TO GRADE	1	EA.
5	CONCRETE SEWER ENCASEMENT PER CITY STD. CWD-022 & 023	963	L.F.

KEEP IN FILE



BENCHMARK:
3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHEAST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.687 (BRASS DISK IS BROKEN OFF F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK)

UNDERGROUND SERVICE ALERT
1-800-422-4133
CALL TWO WORKING DAYS BEFORE YOU DIG



THE KEITH COMPANIES
6296 RIVER CREST DRIVE
SUITE K
RIVERSIDE, CA 92507
(714) 653-0234

APPROVED BY: *Brian L. Jensen*
BRIAN L. JENSEN REG. CIVIL ENGINEER NO. 30634 DATE

CITY OF RIVERSIDE WATER SYSTEM

APPROVED BY: *Richard L. Winkler* DATE: 2-14-89

MARK REVISIONS APPR. DATE
DESIGNED BY: *SK* DRAWN BY: *WLL* CHECKED BY: *BB*

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

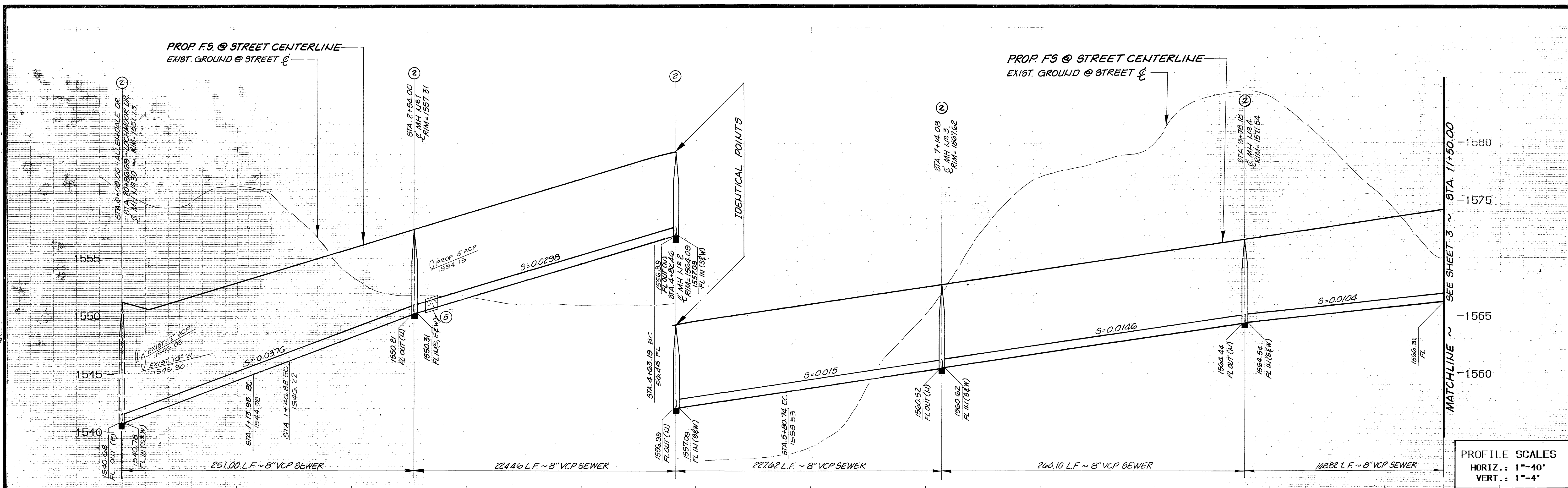
APPROVED BY: *[Signature]* DATE: 3/6/90
PRINCIPAL ENGINEER
PUBLIC WORKS DIRECTOR

CHECKED BY: *[Signature]* DATE: 3/6/90
CHIEF ENGINEER

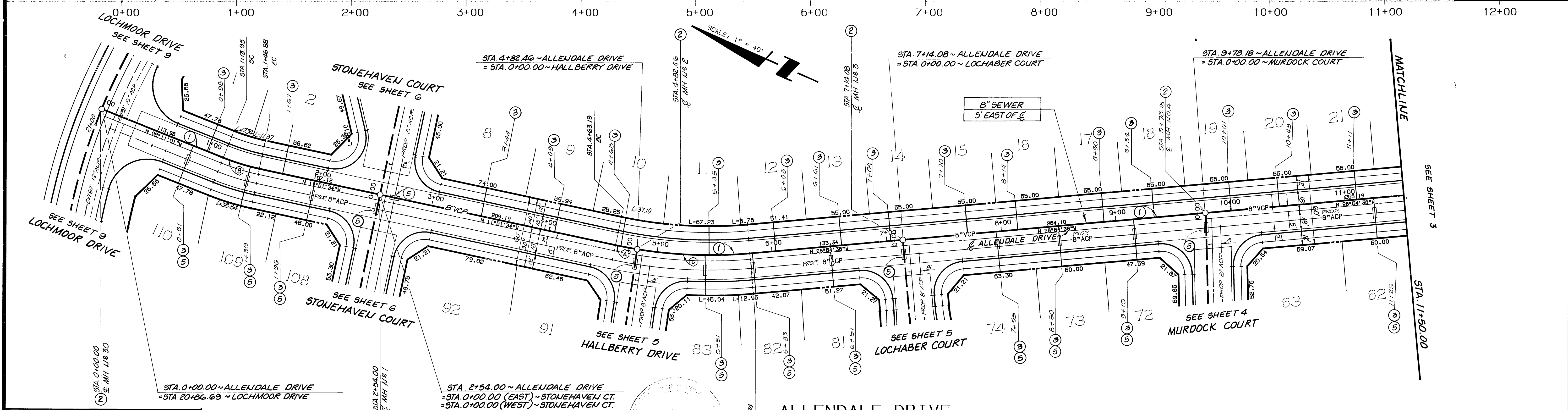
SEWER IMPROVEMENT PLANS
TRACT 22408
TITLE SHEET

ACCOUNT NO. 5-1560
SHEET 1 OF 13

HORIZ. SCALE: 1" = AS SHOWN VERT. SCALE: 1" = AS SHOWN



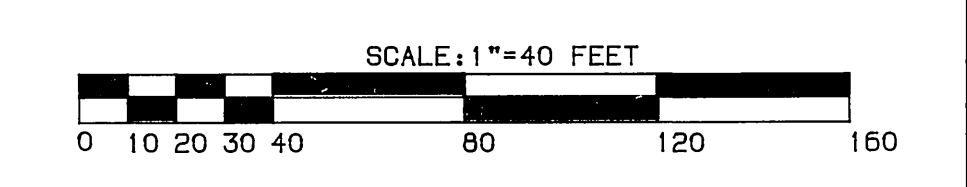
PROFILE SCALES
HORIZ.: 1"=40'
VERT.: 1"=4'



CURVE DATA

DELTA	RADIUS	LENGTH	TANGENT
02° 47' 42"	395.00	19.27	9.64
09° 40' 33"	195.00	32.93	16.50
14° 15' 22"	395.00	98.28	49.40

- CONSTRUCTION NOTES**
- CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
 - CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD 500
 - CONSTRUCT 4" VCP LATERAL PER CITY STD. 562
 - CONSTRUCT CONCRETE SEWER ENCASUREMENT PER CITY STD. CWD-022 & 023



CITY OF RIVERSIDE
WATER SYSTEM

APPROVED BY: *[Signature]* DATE: 12-14-09

BENCHMARK:
3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHEAST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.887 (BRASS DISK IS BROKEN OFF F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK)

UNDERGROUND SERVICE ALERT
1-800-422-4133
CALL TWO WORKING DAYS BEFORE YOU DIG

THE KEITH COMPANIES
6296 RIVER CREST DRIVE
SUITE 104
RIVERSIDE, CA 92507
(714) 653-0234

APPROVED BY: *[Signature]*
BRIAN L. JENSEN REG. CIVIL ENGINEER, NO. 30634

MARK	REVISIONS	APP'D.	DATE

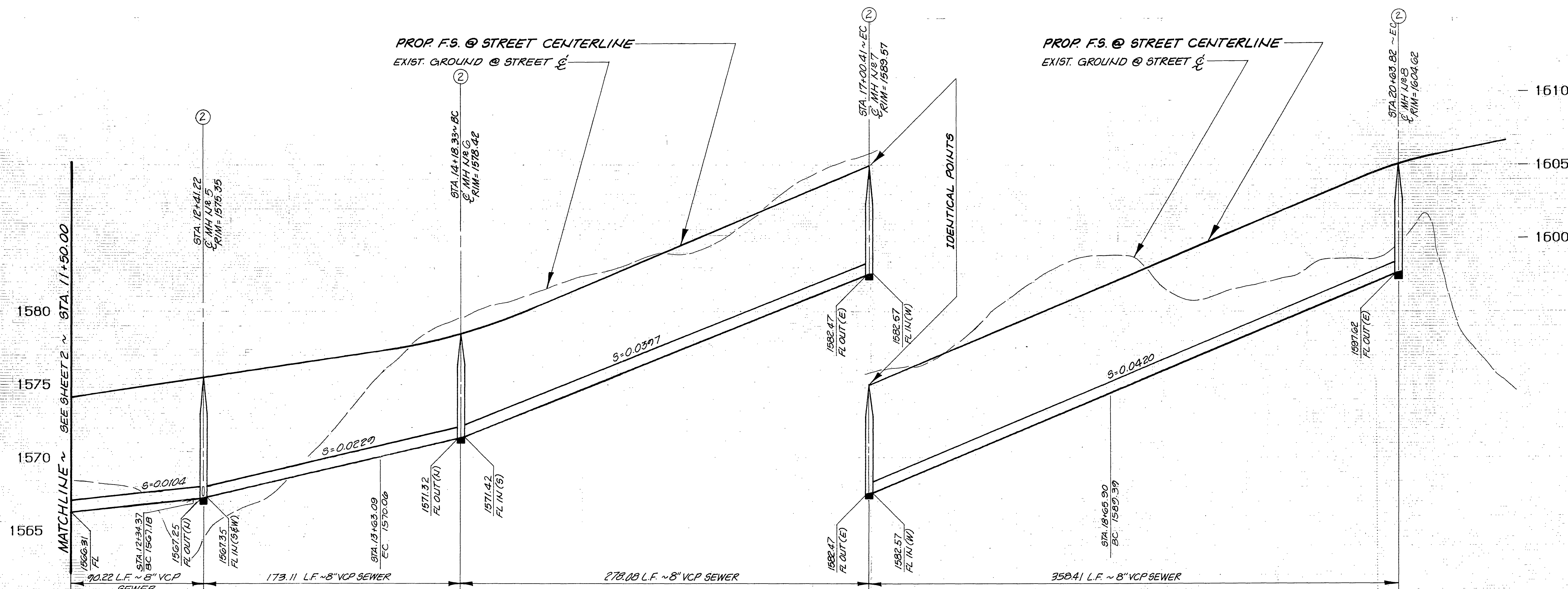
CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY: *[Signature]* DATE: 3/6/09
PRINCIPAL ENGINEER: *[Signature]*
TRAFFIC DIVISION: *[Signature]*
CHIEF ENGINEER: *[Signature]*

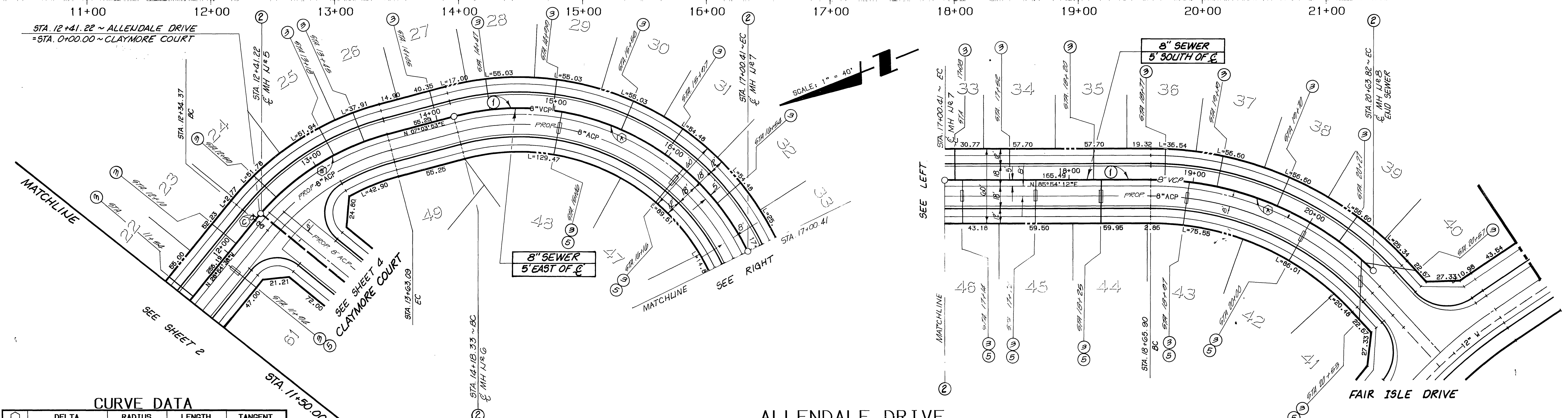
SEWER IMPROVEMENT PLANS
TRACT 22408
ALLENDALE DRIVE

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

ACCOUNT NO. 5-1566
SHEET 2 OF 13



PROFILE SCALES
 HORIZ.: 1"=40'
 VERT.: 1"=4'



CURVE DATA

DELTA	RADIUS	LENGTH	TANGENT
78°50'19"	205.00	292.08	168.50
34°03'39"	205.00	121.87	62.79
01°54'52"	205.00	6.85	3.43

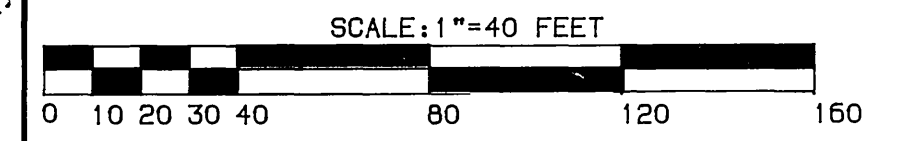
CONSTRUCTION NOTES

- ① CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
- ② CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD. 500
- ③ CONSTRUCT 4" VCP LATERAL PER CITY STD. 562
- ④ CONSTRUCT CONCRETE SEWER ENCASUREMENT PER CITY STD. CWD-022 & 023

CURVE DATA

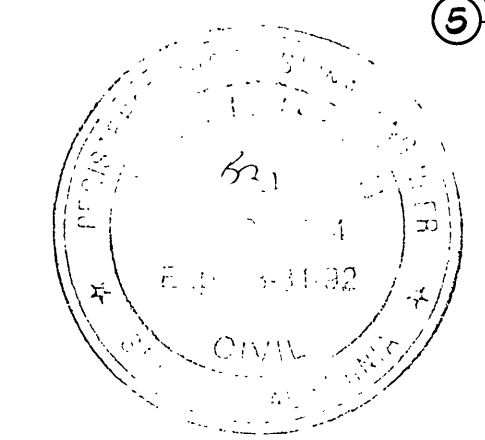
DELTA	RADIUS	LENGTH	TANGENT
44°28'15"	255.00	197.92	104.25

CITY OF RIVERSIDE
 WATER SYSTEM
 APPROVED BY: *Richard J. Dinkel* 12-14-99
 DATE



BENCHMARK:
 3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHEAST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT, 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.867 (BRASS DISK IS BROKEN OFF F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK)

UNDERGROUND SERVICE ALERT
 1-800-422-4133
 CALL TWO WORKING DAYS BEFORE YOU DIG



THE KEITH COMPANIES
 6296 RIVER CREST DRIVE
 SUITE K
 RIVERSIDE, CA 92507
 (714) 653-0234
 APPROVED BY: *Brian L. Jensen*
 BRIAN L. JENSEN REG. CIVIL ENGINEER NO. 30534 DATE: 12/14/99

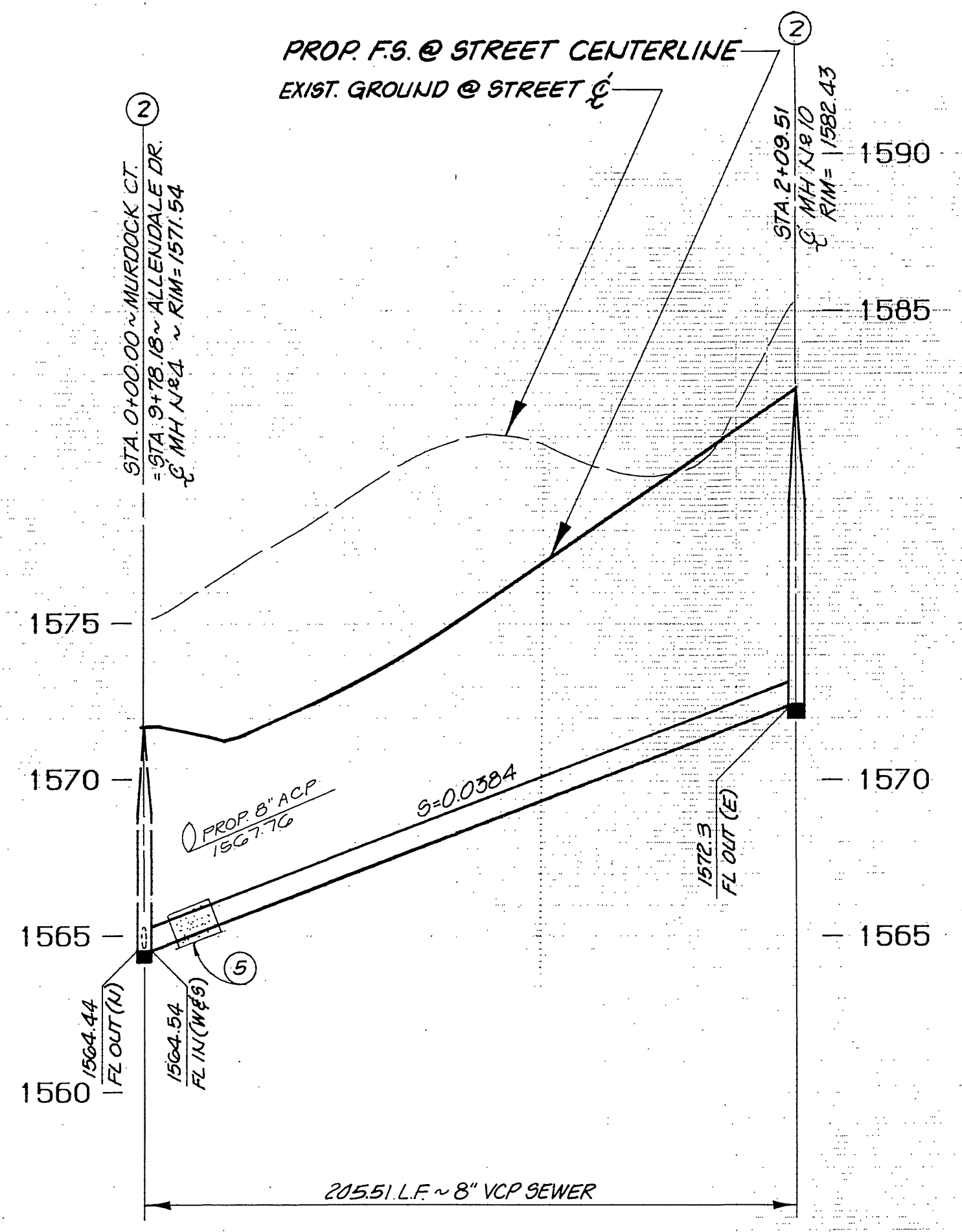
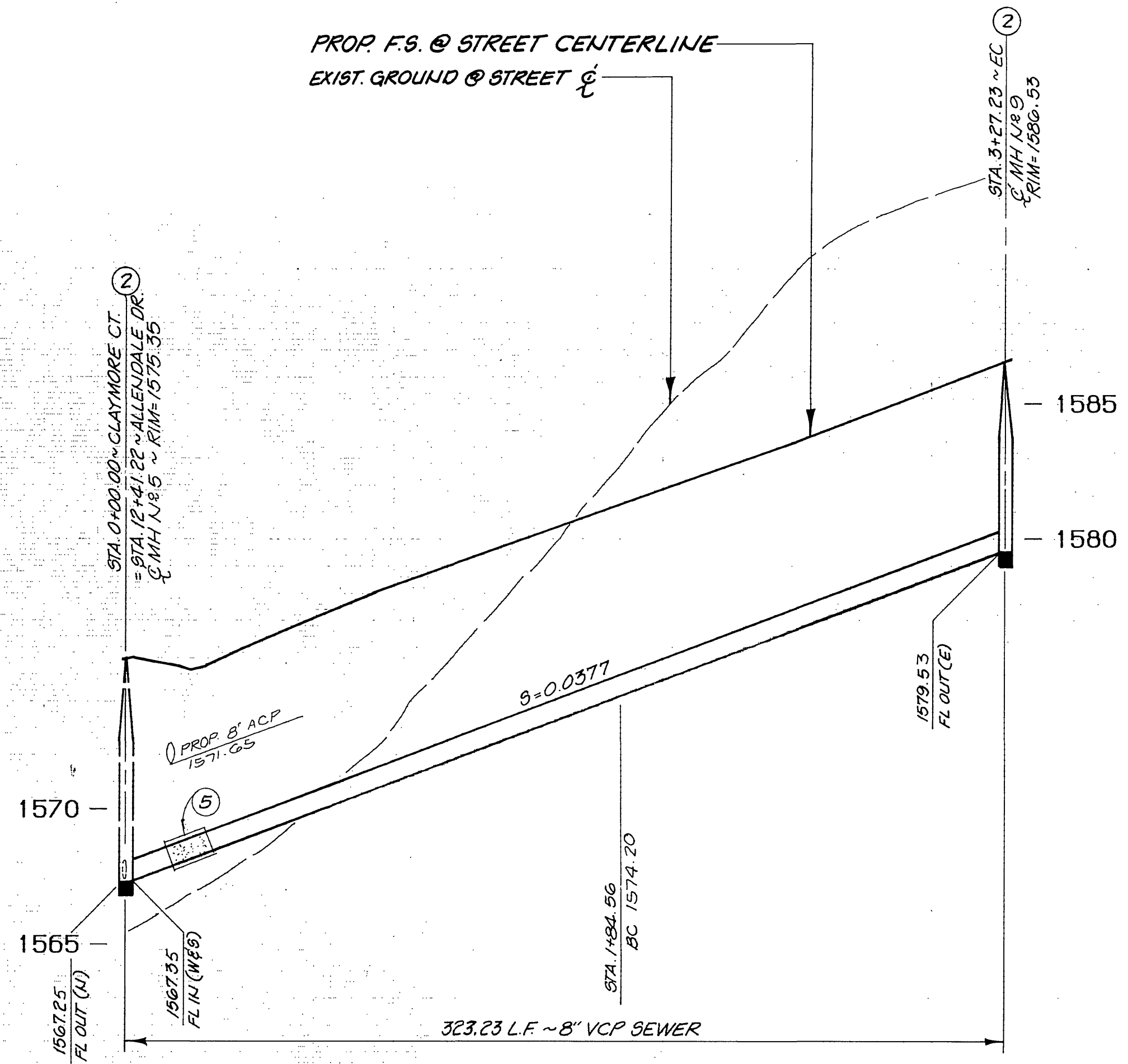
MARK	REVISIONS	APPR.	DATE

DESIGNED BY: *SK* DRAWN BY: *WLL* CHECKED BY: *BB*

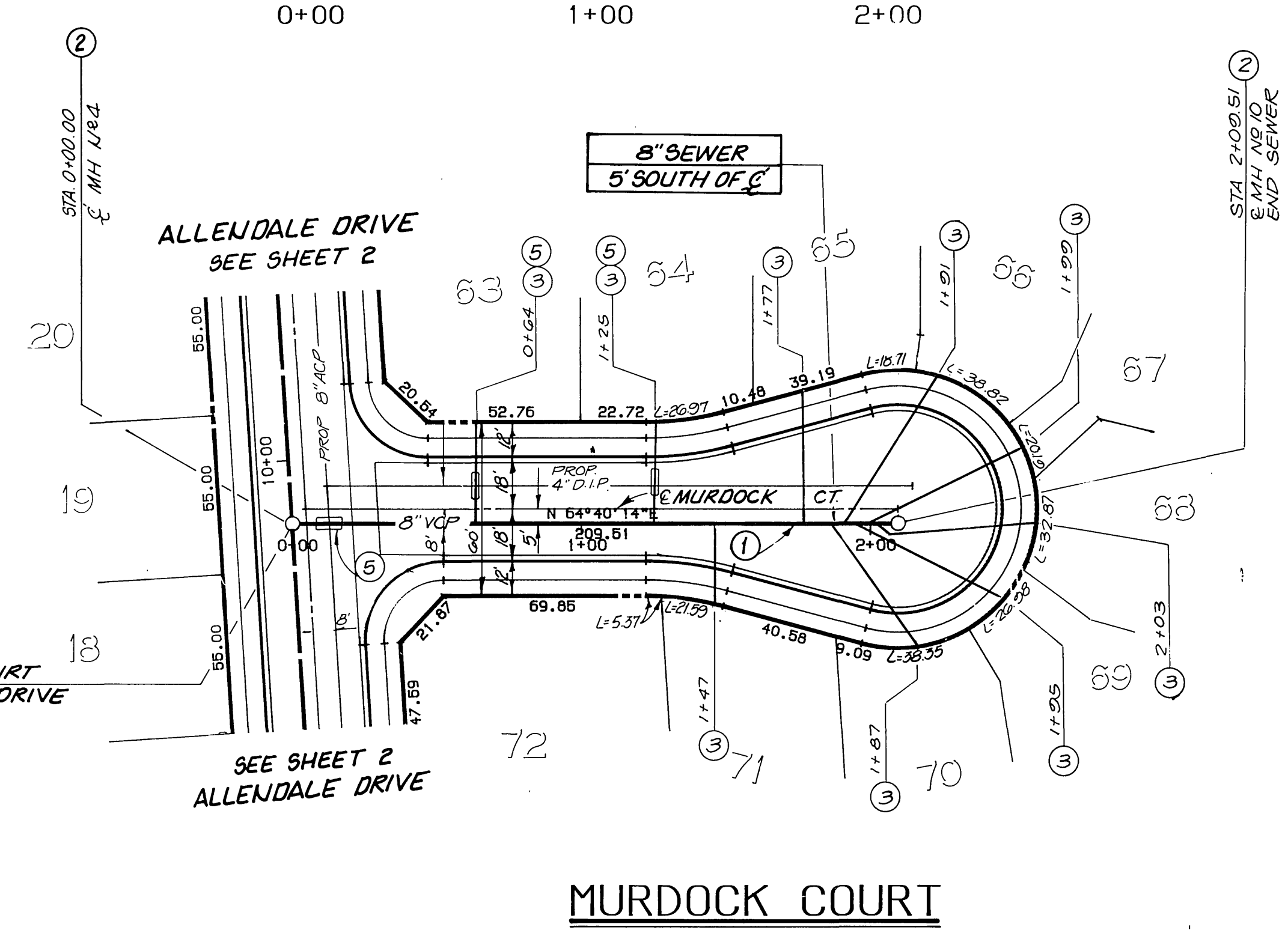
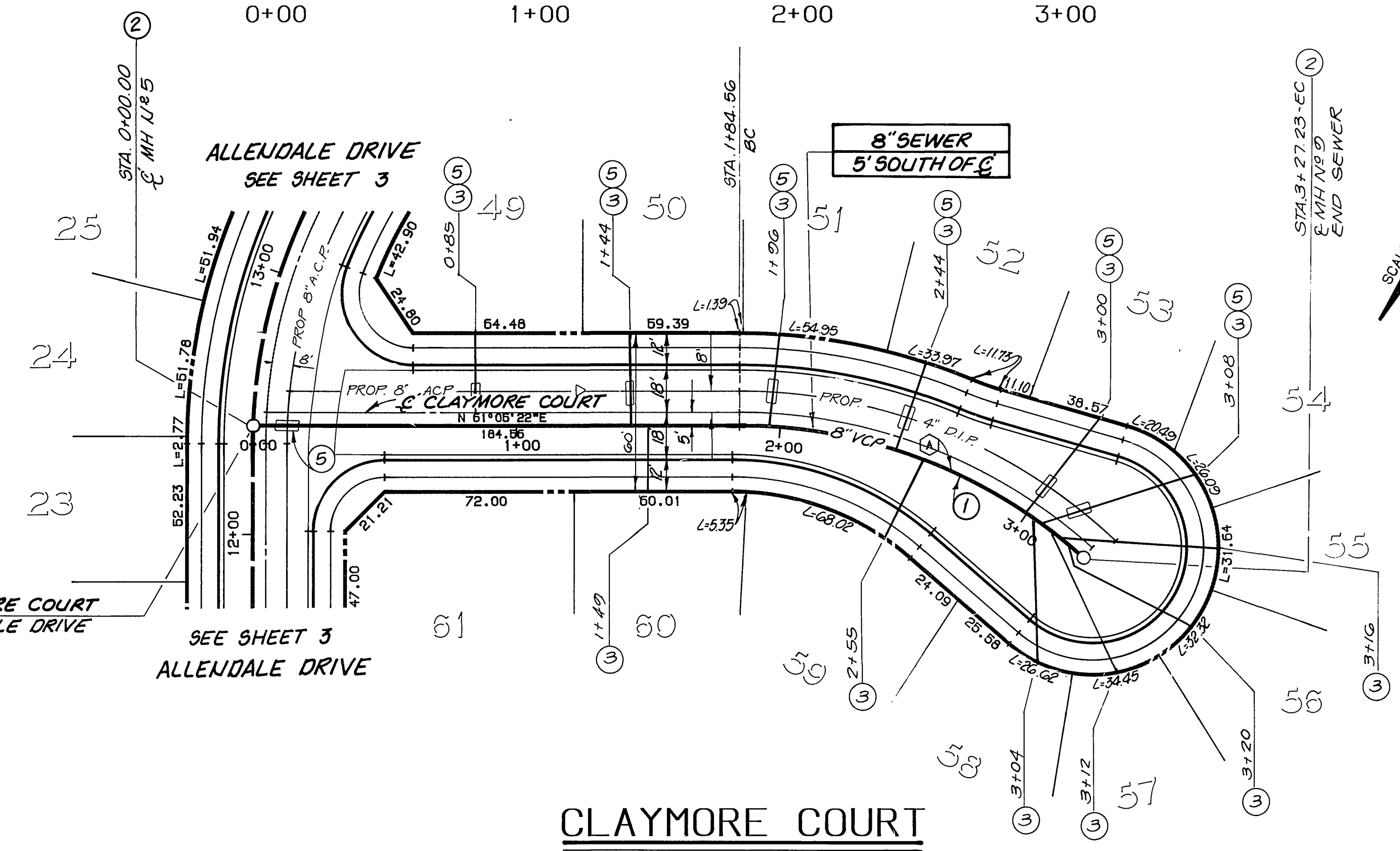
CITY OF RIVERSIDE
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: *Richard J. Dinkel*
 DATE: 12/14/99

SEWER IMPROVEMENT PLANS
 TRACT 22408
 ALLENDALE DRIVE

ACCOUNT NO.
 5-1560
 SHEET 3 OF 13



PROFILE SCALES
HORIZ.: 1"=40'
VERT.: 1"=4'



CONSTRUCTION NOTES

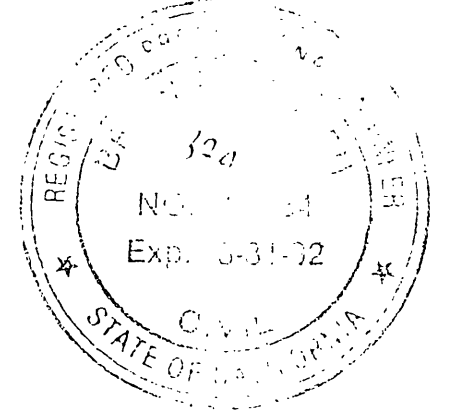
- ① CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
- ② CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD. 500.
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- ④ CONSTRUCT CONCRETE SEWER ENCASUREMENT PER CITY STD. CWD-022 & 023

DATA

DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
41°55'06"	195.00	142.66	74.69

BENCHMARK:
3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHEAST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT, 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.887 (BRASS DISK IS BROKEN OFF F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK)

UNDERGROUND SERVICE ALERT
1-800-422-4133
CALL TWO WORKING DAYS BEFORE YOU DIG



THE KEITH COMPANIES
6296 RIVER CREST DRIVE
SUITE K
RIVERSIDE, CA 92507
(714) 653-0234

APPROVED BY: *Brian L. Jensen*
BRIAN L. JENSEN REG. CIVIL ENGINEER NO. 30534

DESIGNED BY: *SK* DRAWN BY: *JLL* CHECKED BY: *BB*

CITY OF RIVERSIDE WATER SYSTEM
APPROVED BY: *Richard L. Dink* DATE: 3-14-99

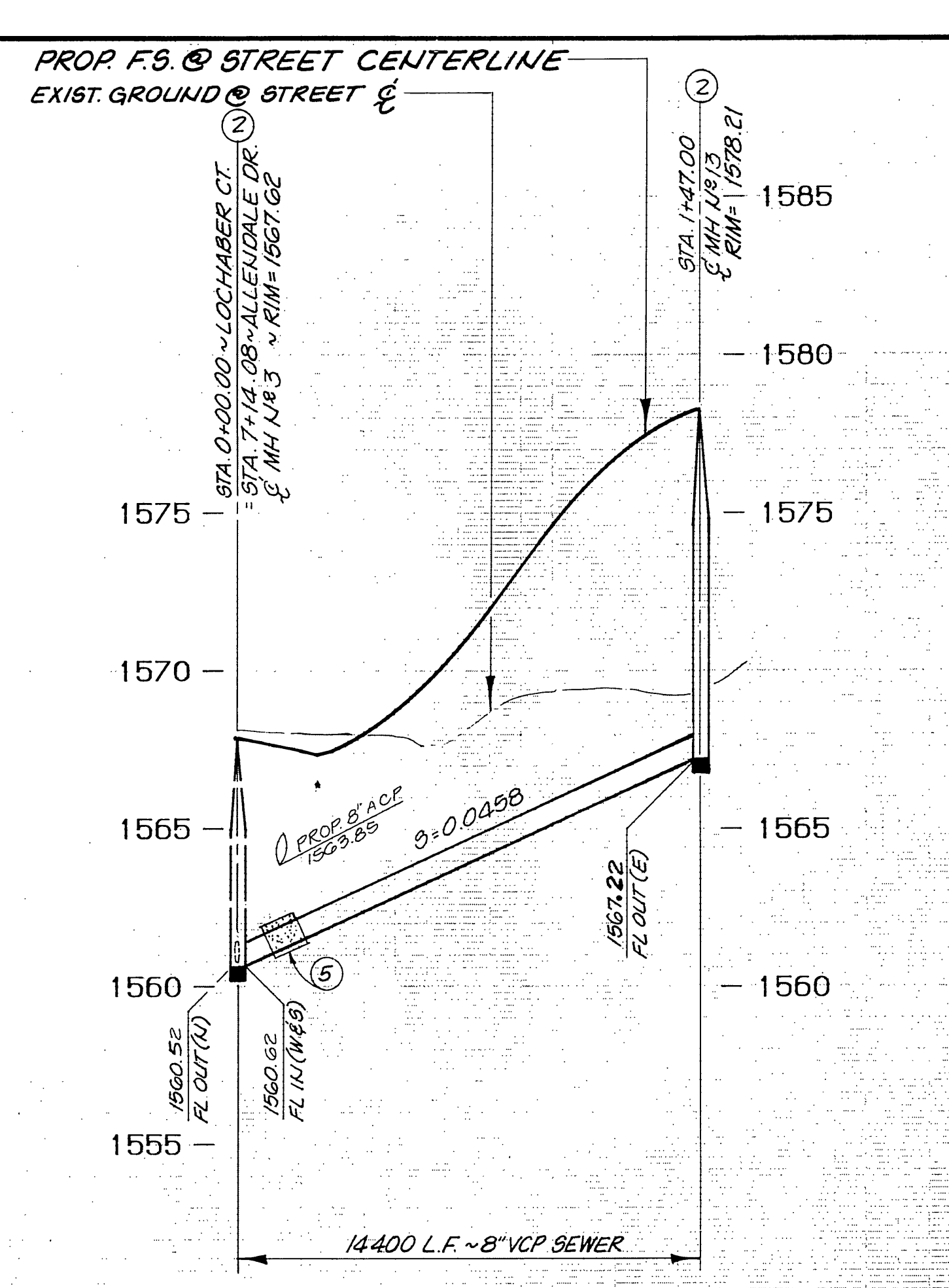
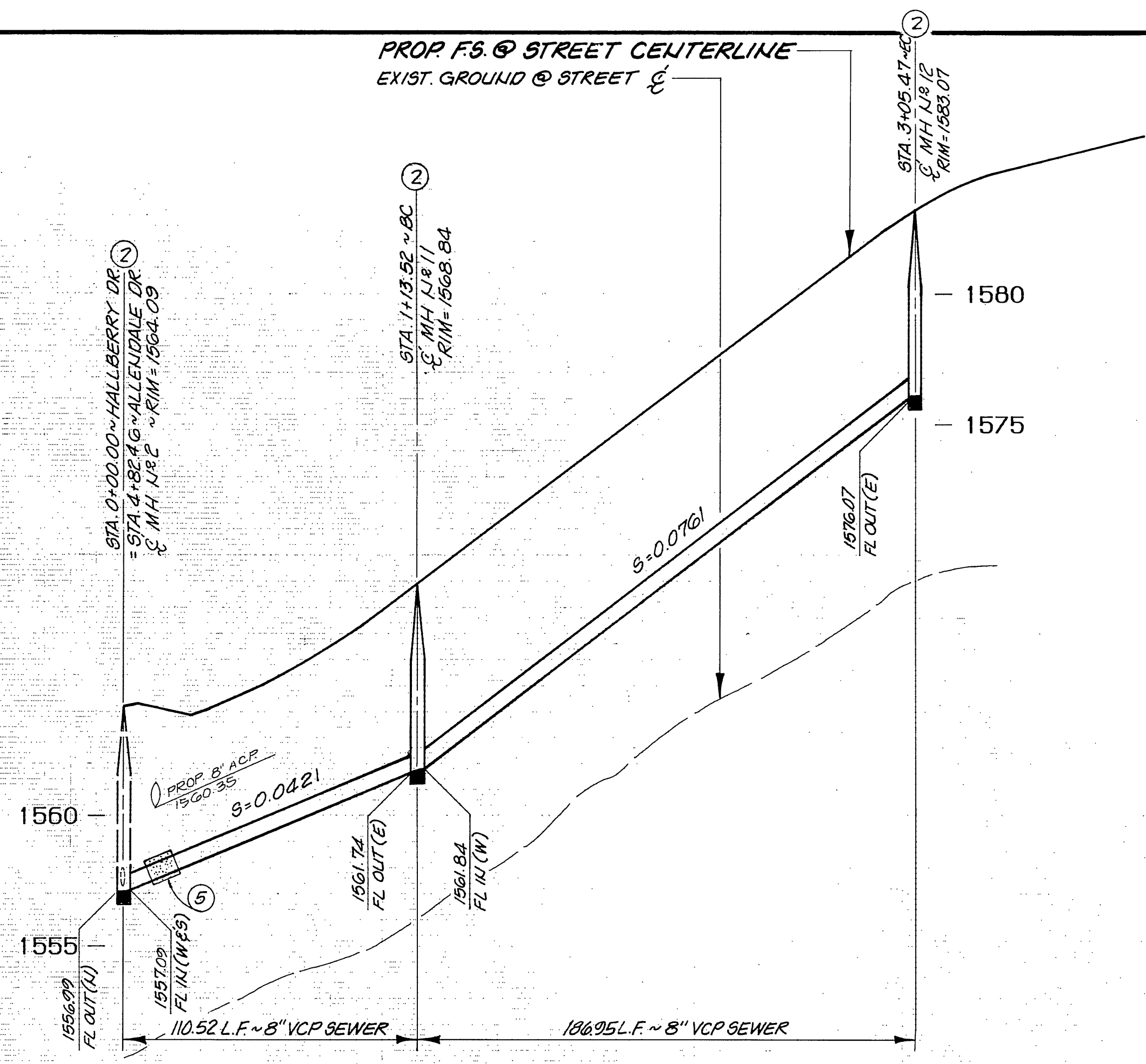
CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT

APPROVED BY: *Dennis Paul*
PUBLIC WORKS DIRECTOR
DATE: 3/6/99

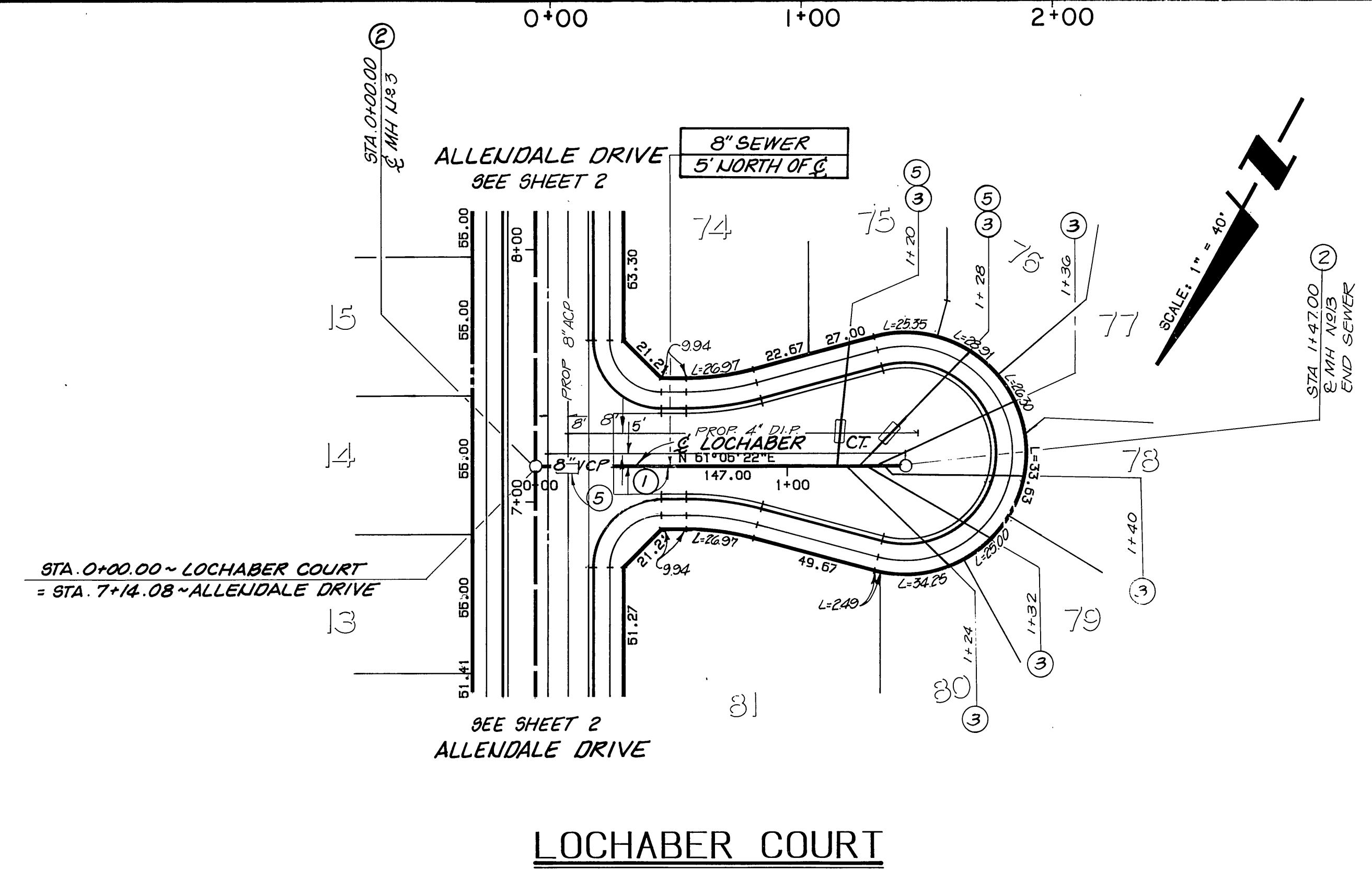
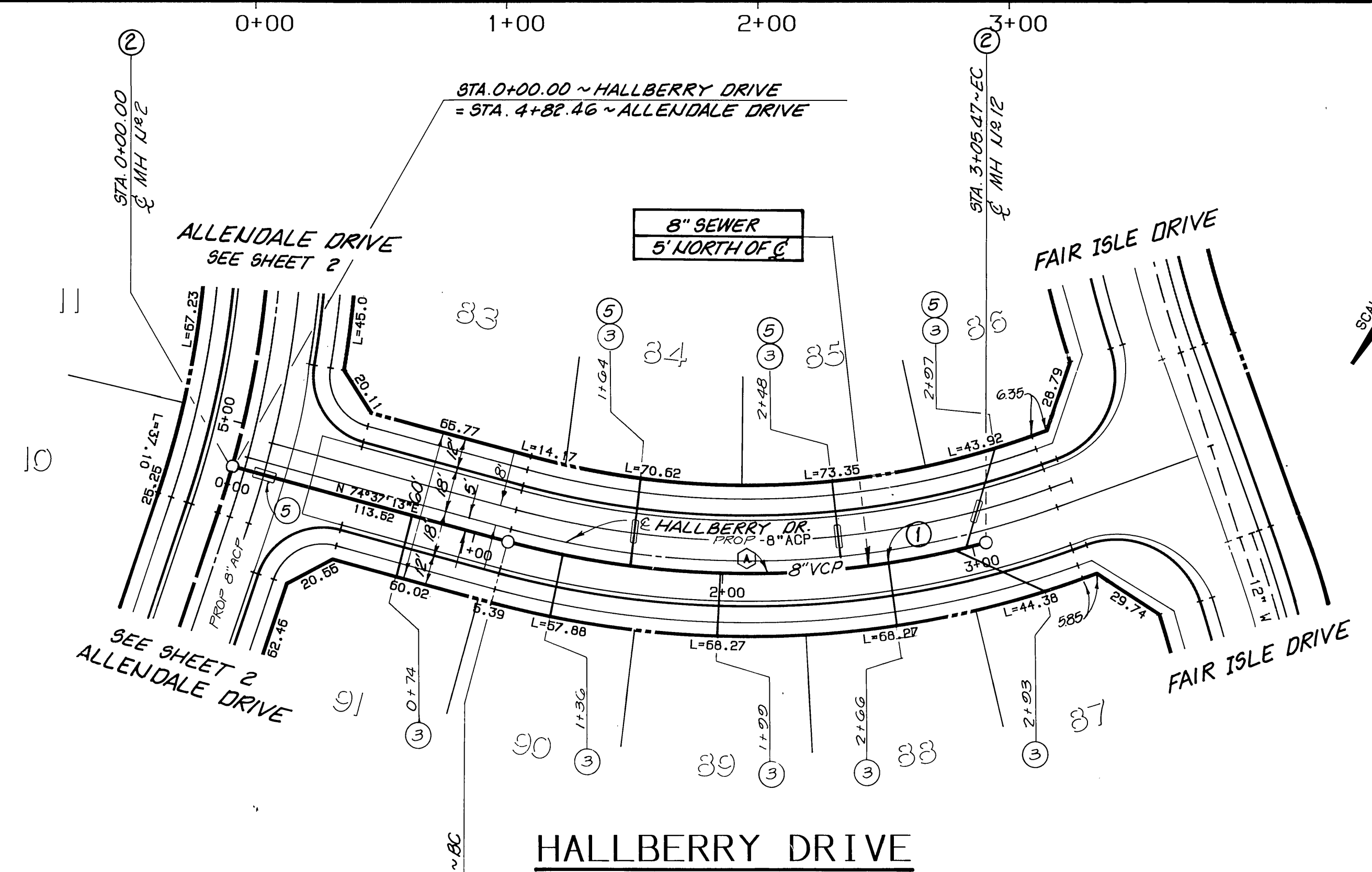
SEWER IMPROVEMENT PLANS
TRACT 22408
CLAYMORE CT/MURDOCK CT

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

ACCOUNT NO.
5-1506
SHEET 4 OF 13



PROFILE SCALES
 HORIZ.: 1"=40'
 VERT.: 1"=4'

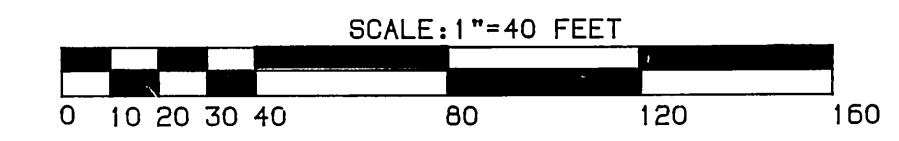


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DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
30°07'57"	365.00	191.96	98.25

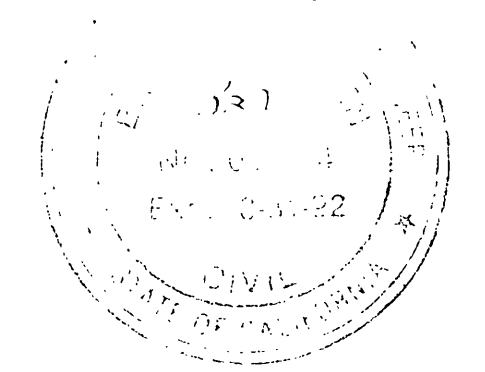
- CONSTRUCTION NOTES**
- CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
 - CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD 572 500
 - CONSTRUCT 4" VCP LATERAL PER CITY STD. 562
 - CONSTRUCT CONCRETE SEWER ENCASEMENT PER CITY STD. CWD-02? & 023

CITY OF RIVERSIDE
 WATER SYSTEM
 APPROVED BY: *Richard A. Diodato* DATE: 12-14-89



BENCHMARK:
 3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHWEST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK OUT, 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.887 BRASS DISK IS BROKEN OFF F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK

UNDERGROUND SERVICE ALERT
 1-800-422-4133
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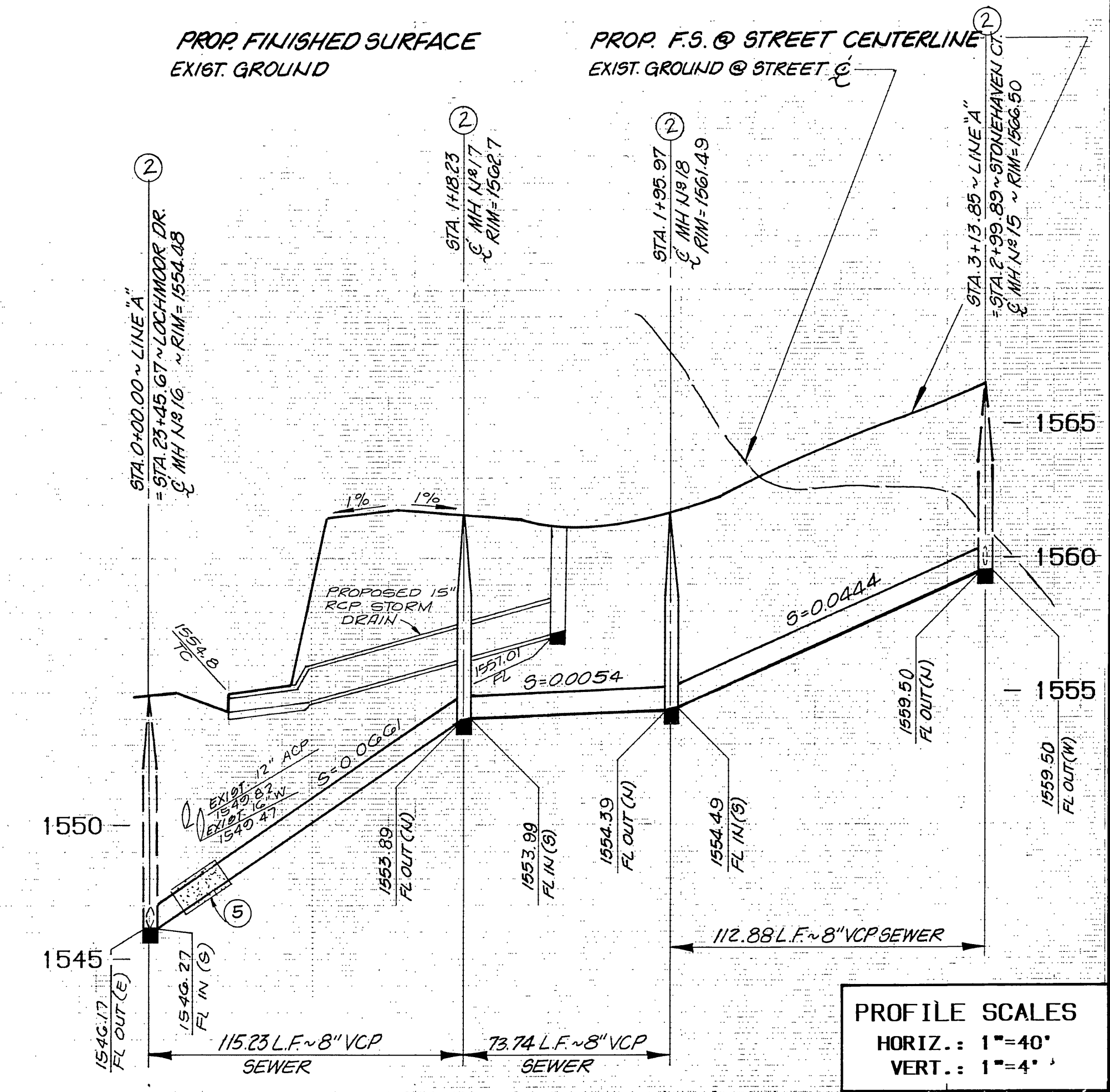
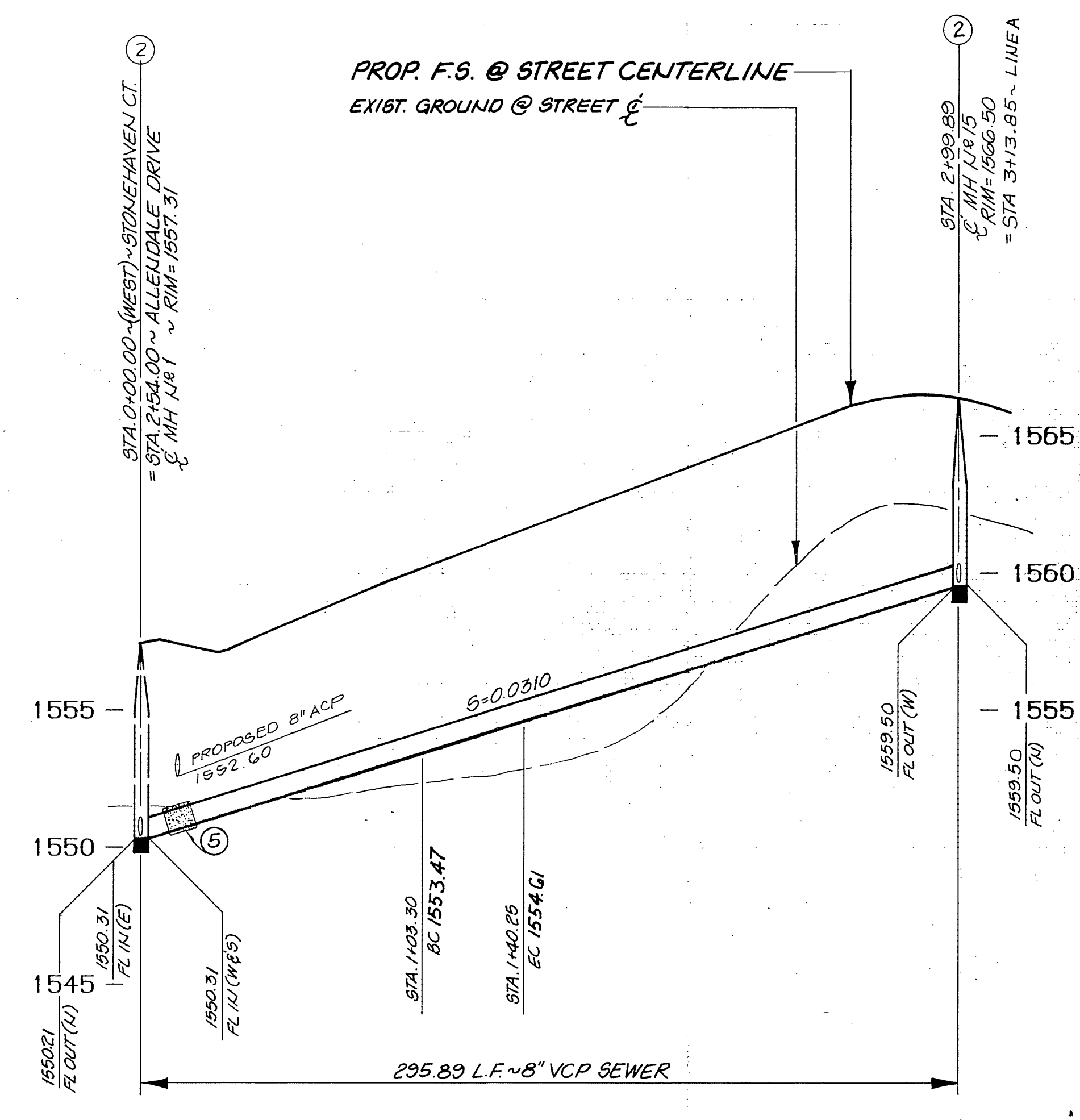
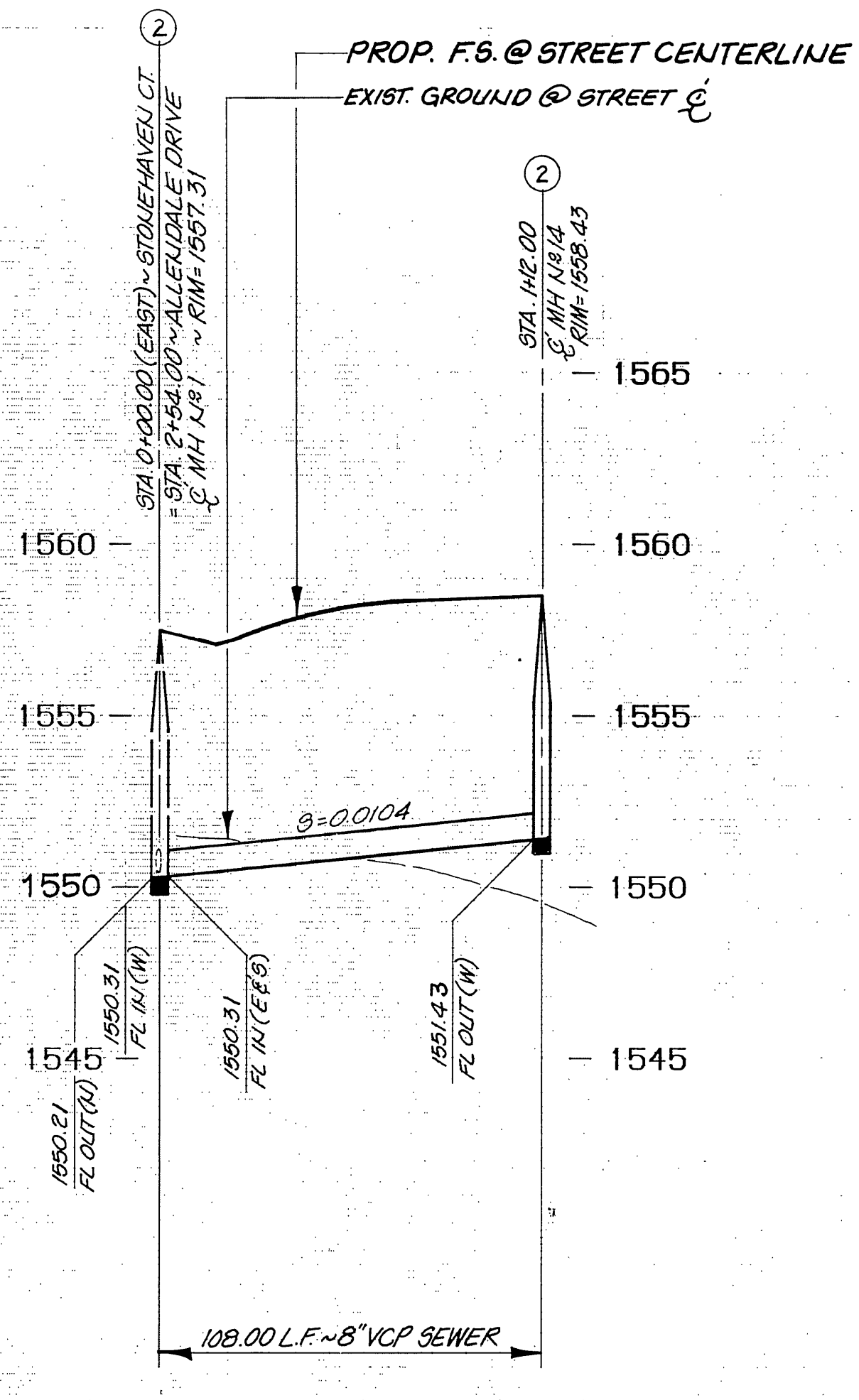
THE KEITH COMPANIES
 6296 RIVER CREST DRIVE
 SUITE K
 RIVERSIDE, CA 92507
 (714) 653-0234

MARK	REVISIONS	APPR	DATE

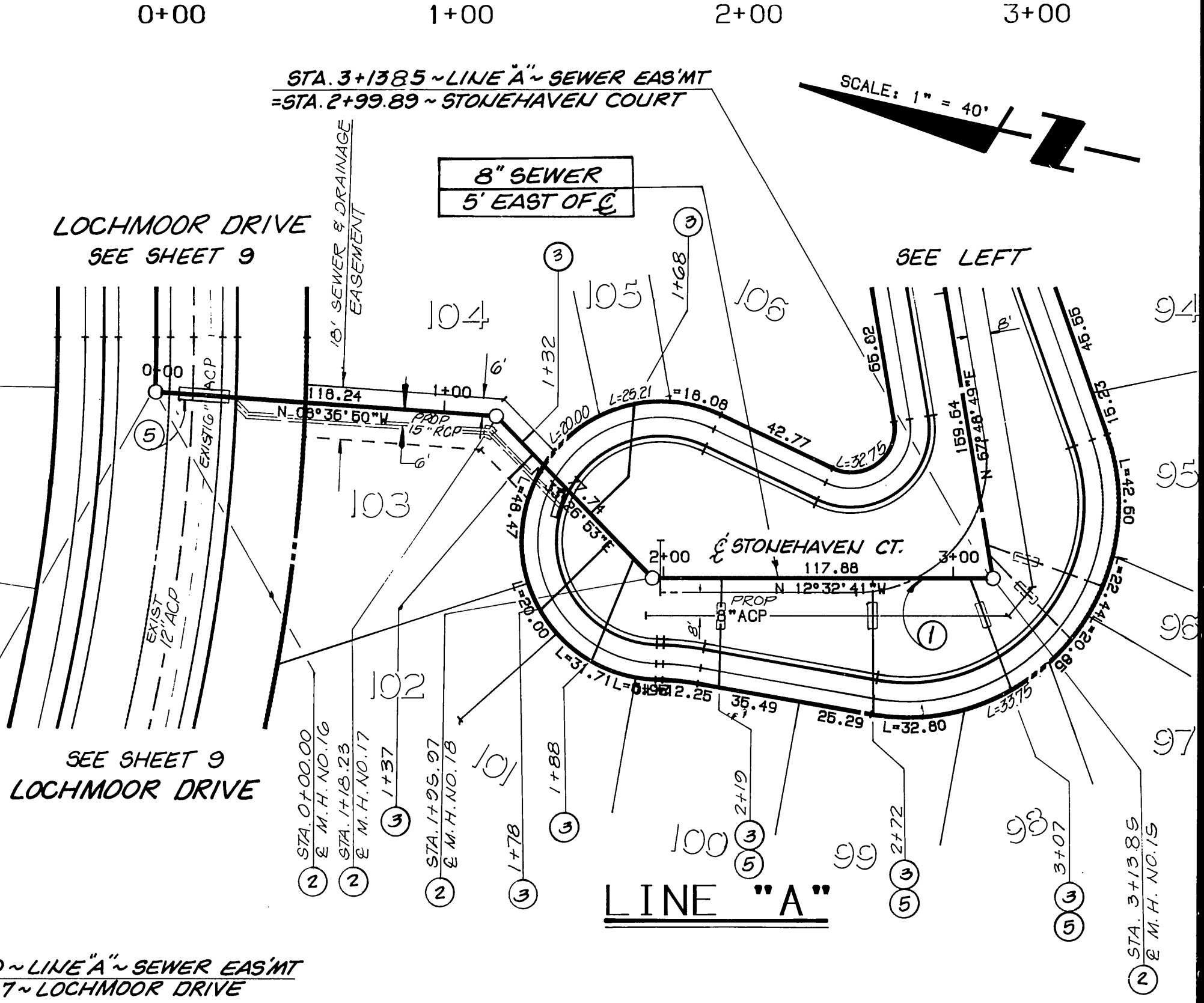
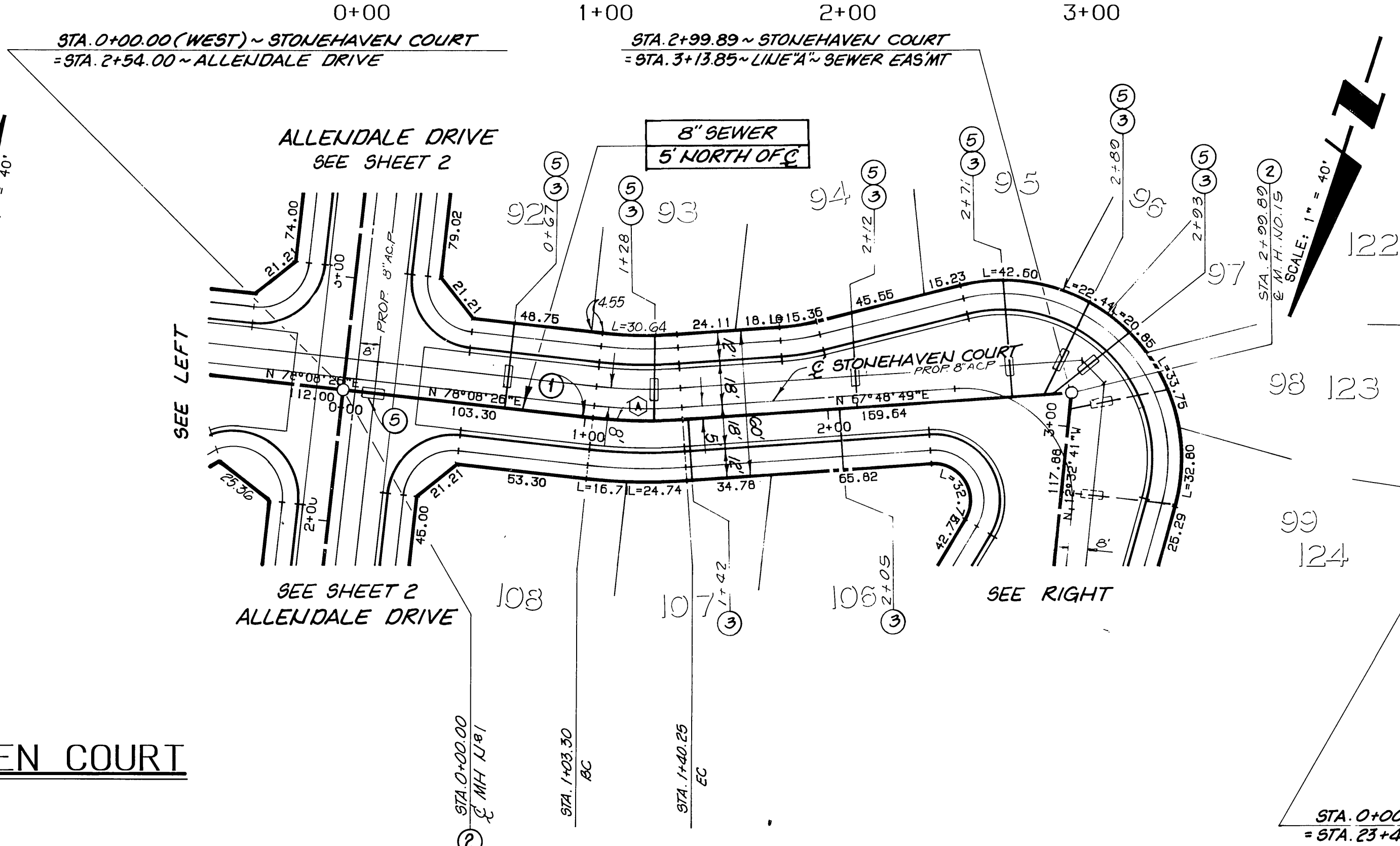
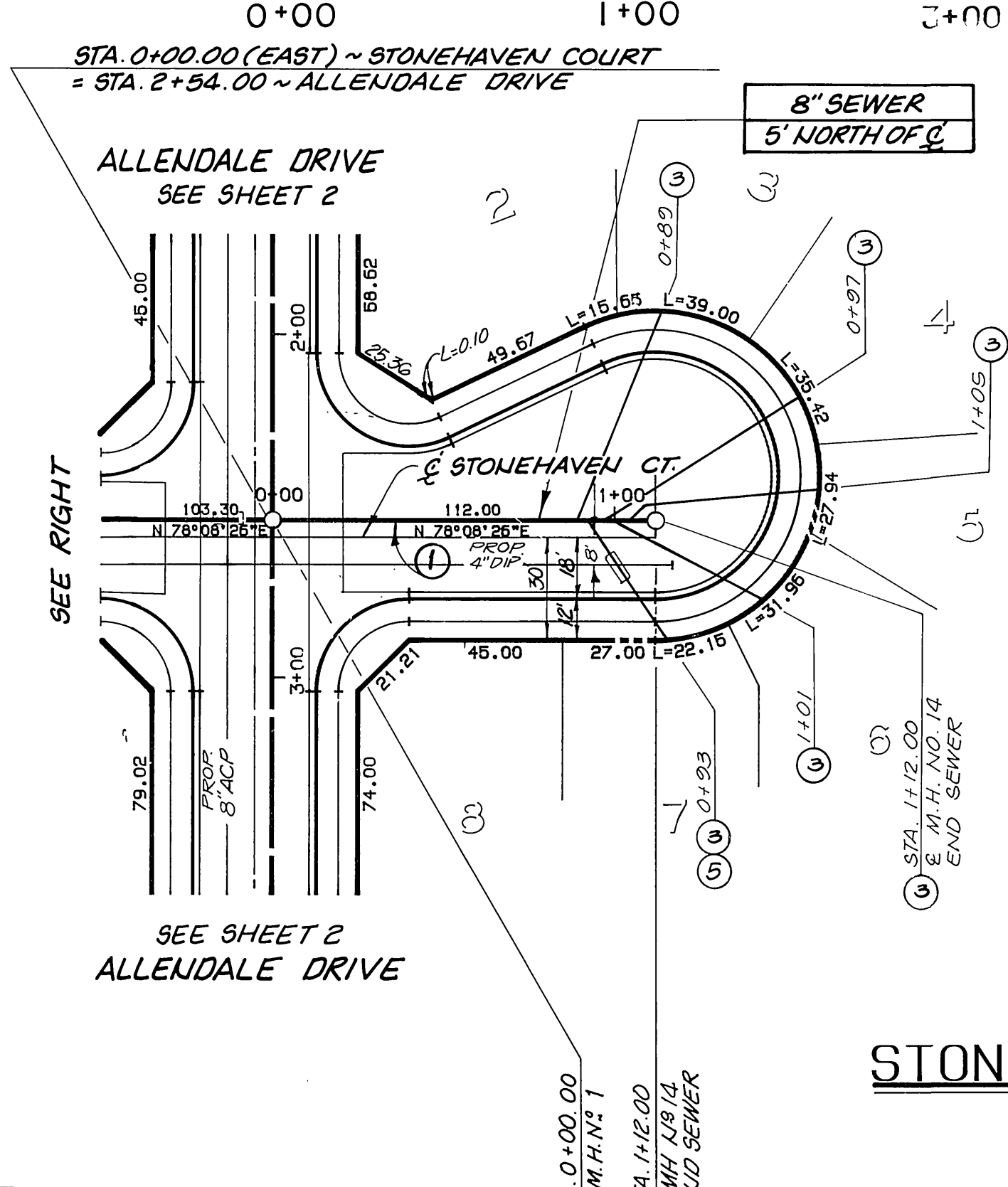
CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT
 APPROVED BY: *[Signature]* DATE: 3/6/90
 PUBLIC WORKS DIRECTOR

SEWER IMPROVEMENT PLANS
 TRACT 22408
HALLBERRY DR/LOCHABER CT
 HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4'

ACCOUNT NO.
 5-1500
 SHEET 5 OF 13



PROFILE SCALES
 HORIZ. : 1" = 40'
 VERT. : 1" = 4'



STONEHAVEN COURT

DATA

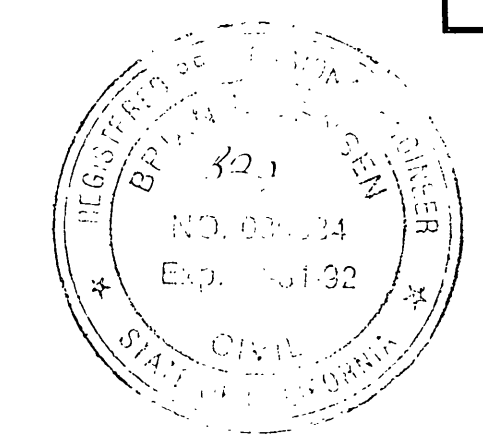
MARK	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
(A)	10° 19' 37"	205.00	36.95	18.52

- CONSTRUCTION NOTES**
- CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
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 - CONSTRUCT 4" VCP LATERAL PER CITY STD. 562
 - CONSTRUCT CONCRETE SEWER ENCASMENT PER CITY STD. CWD-022 & 023

CITY OF RIVERSIDE
 WATER SYSTEM
 APPROVED BY: *[Signature]* DATE: 12-14-89

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UNDERGROUND SERVICE ALERT
 1-800-422-4133
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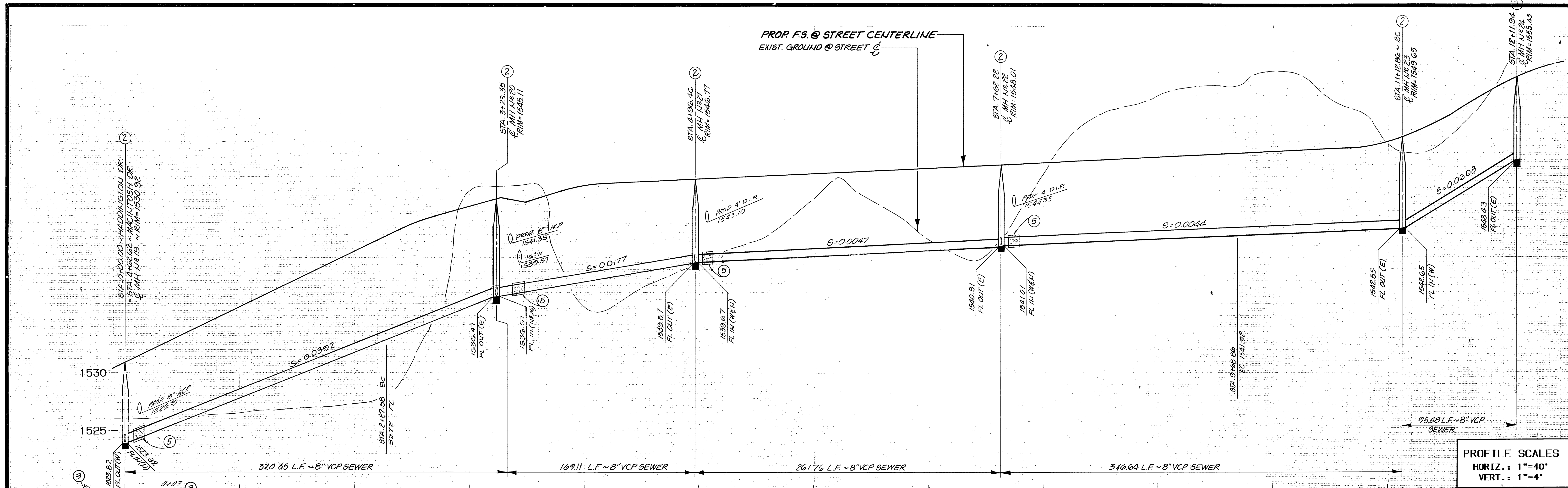
THE KEITH COMPANIES
 6296 RIVER CREST DRIVE
 SUITE K
 RIVERSIDE, CA 92507
 (714) 653-0234
 APPROVED BY: *[Signature]*
 BRIAN L. JENSEN REG CIVIL ENGINEER NO. 30534 DATE

DESIGNED BY: *[Signature]* DRAWN BY: *[Signature]* CHECKED BY: *[Signature]*

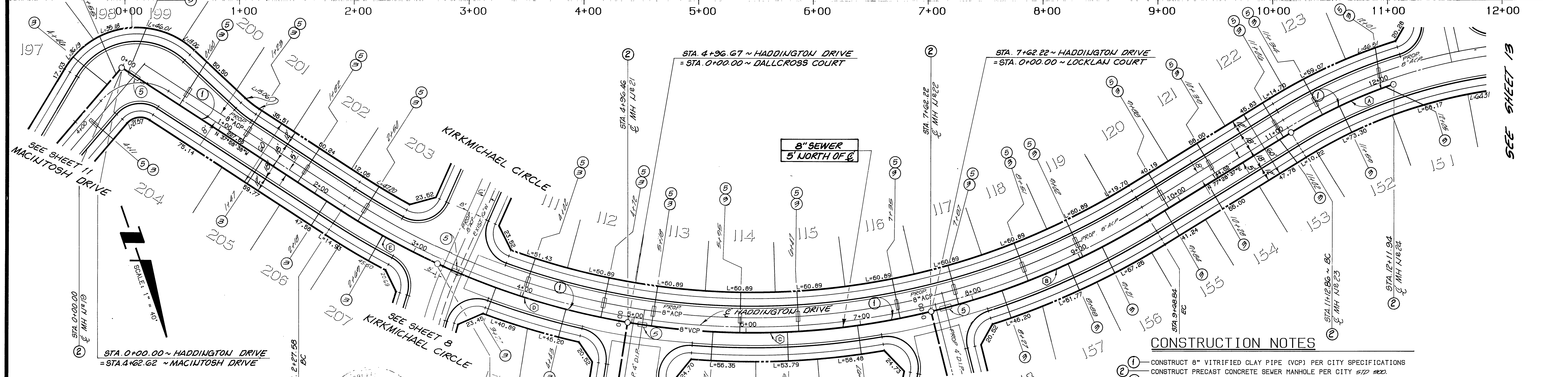
CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT
 APPROVED BY: *[Signature]* DATE: 3/8/90
 PRINCIPAL ENGINEER
 PANK DEPARTMENT
 TRAFFIC DIVISION
 CHIEF P.W. ENGINEER

SEWER IMPROVEMENT PLANS TRACT 22408
STONEHAVEN CT/LINE "A"
 HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

ACCOUNT NO. 5-1500
 SHEET 6 OF 13



PROFILE SCALES
 HORIZ.: 1"=40'
 VERT.: 1"=4'



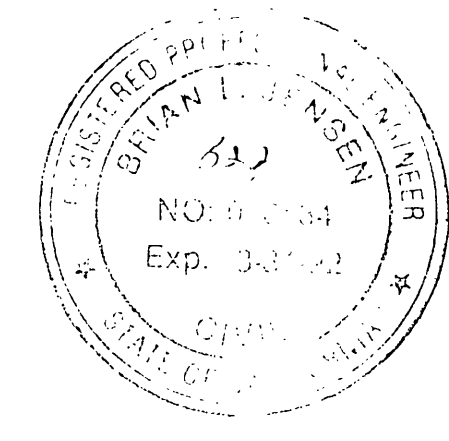
SEE SHEET 11
 MACILUTOSH DRIVE

SEE SHEET 12
 LOCKLAN COURT

SEE SHEET 13
 SEE SHEET 13

CURVE DATA

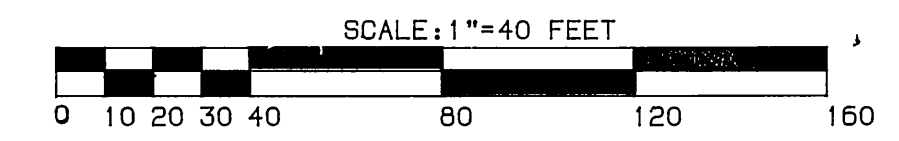
DELTA	RADIUS	LENGTH	TANGENT
12° 50' 36"	442.00	99.08	49.75
17° 59' 31"	658.00	206.62	104.17
23° 08' 27"	658.00	265.76	134.71
15° 04' 27"	658.00	173.11	87.06
08° 20' 20"	658.00	95.77	47.97



CONSTRUCTION NOTES

- ① CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
- ② CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD. 572.222
- ③ CONSTRUCT 4" VCP LATERAL PER CITY STD. 562
- ④ CONSTRUCT CONCRETE SEWER ENCASUREMENT PER CITY STD. CWD-022 & 023

CITY OF RIVERSIDE
 WATER SYSTEM
 APPROVED BY: *[Signature]* DATE: 12-11-89



BENCHMARK:
 3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHEAST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT, 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.887 (BRASS DISK IS BROKEN OFF F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK)

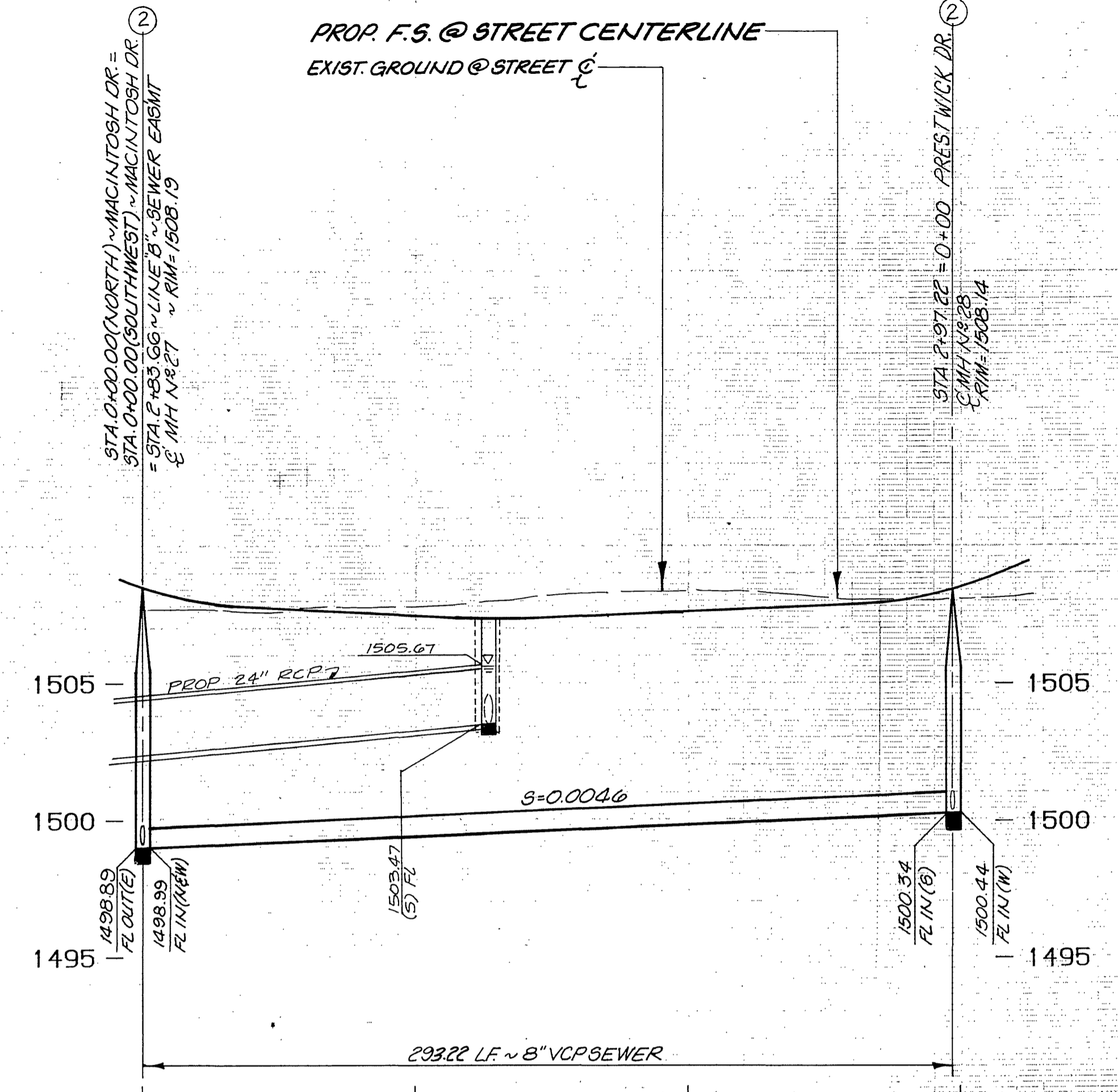
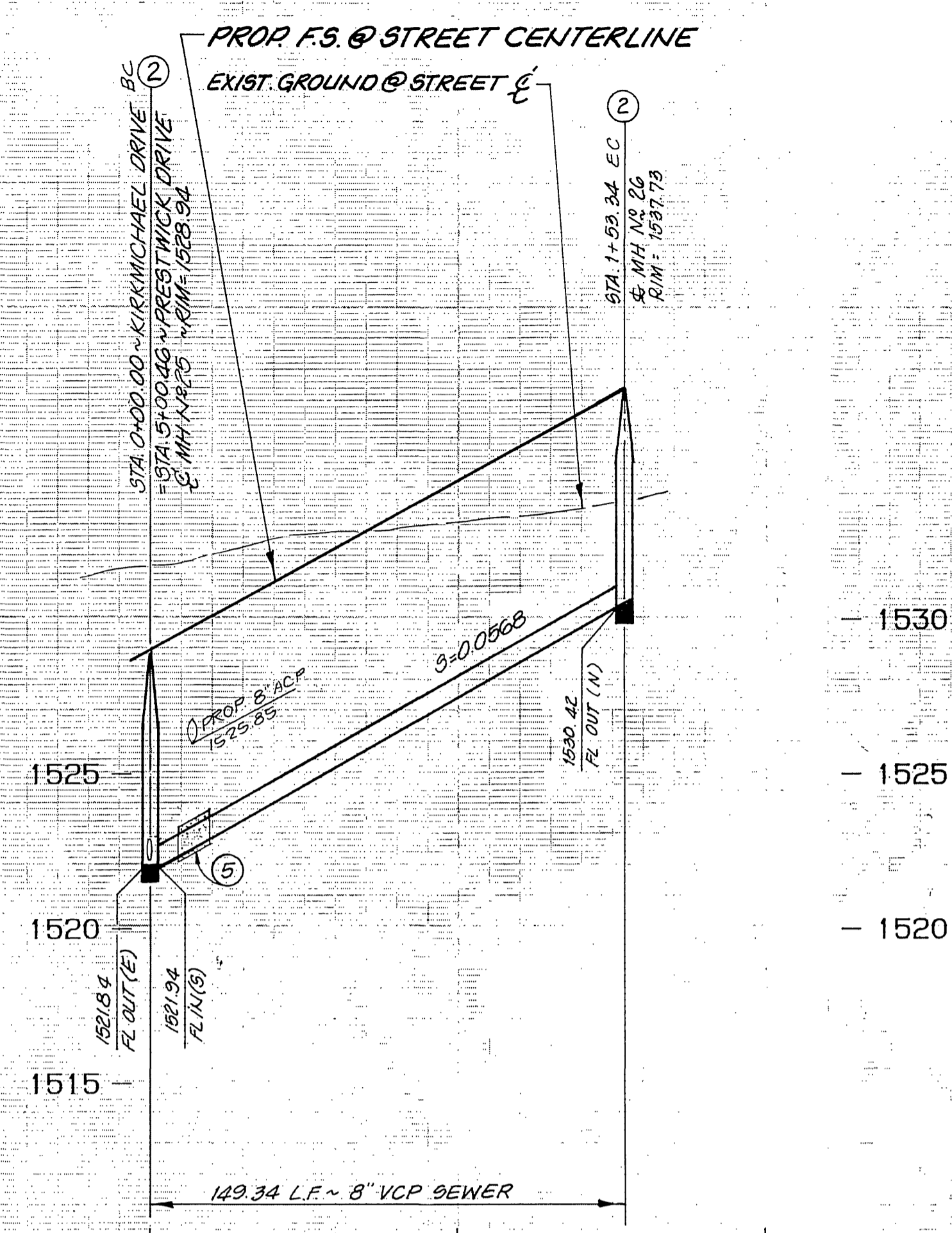
UNDERGROUND SERVICE ALERT
 1-800-422-4133
 CALL TWO WORKING DAYS BEFORE YOU DIG

THE KEITH COMPANIES
 6296 RIVER CREST DRIVE
 SUITE K
 RIVERSIDE, CA 92507
 (714) 653-0234

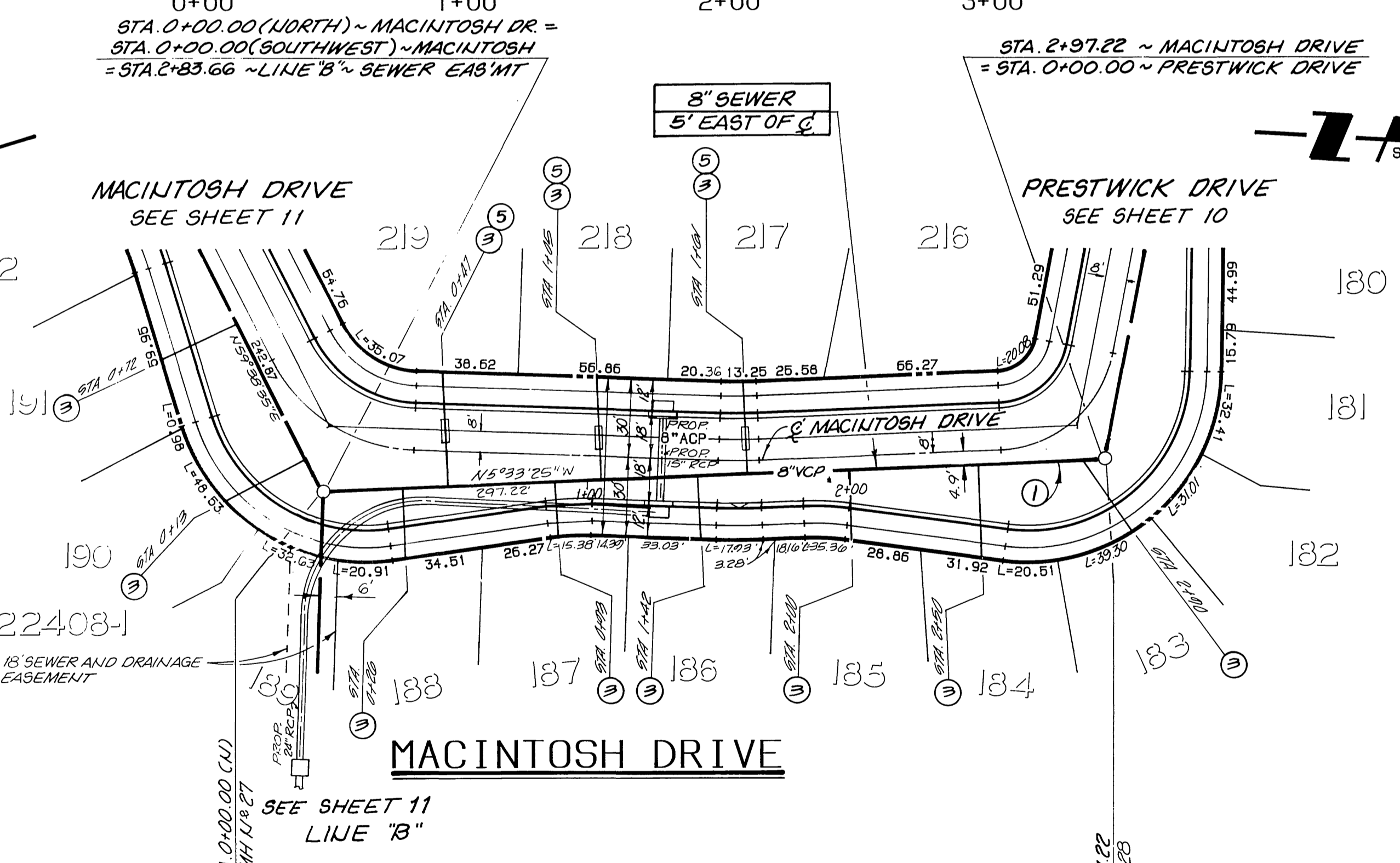
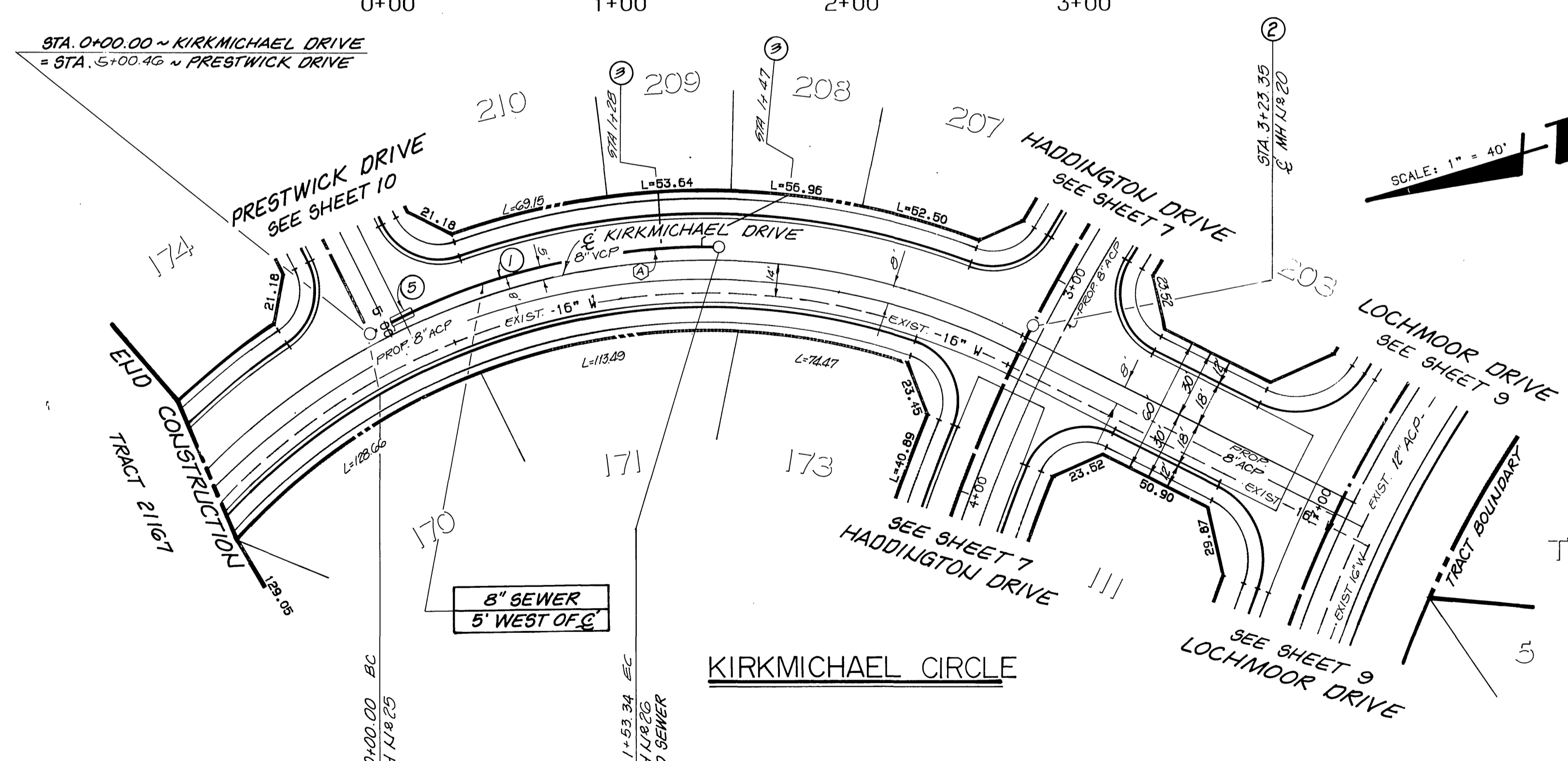
APPROVED BY: *[Signature]* DATE: *[Date]*
 BRIAN L. JENSEN REG CIVIL ENGINEER NO. 30534

CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT
 APPROVED BY: *[Signature]* DATE: *[Date]*
 PUBLIC WORKS DIRECTOR

SEWER IMPROVEMENT PLANS TRACT 22408 HADDINGTON DRIVE
 ACCOUNT NO. 5-1500
 SHEET 7 OF 13
 HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4'



PROFILE SCALES
 HORIZ.: 1"=40'
 VERT.: 1"=4'



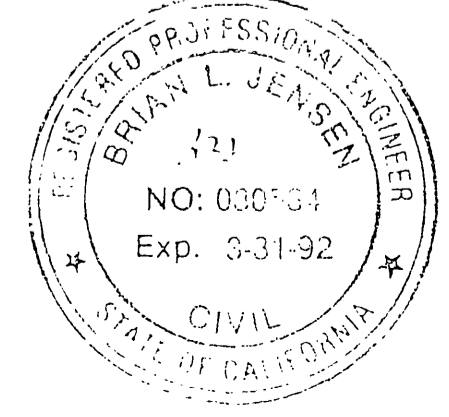
- CONSTRUCTION NOTES**
- 1 CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
 - 2 CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD 500.
 - 3 CONSTRUCT 4" VCP LATERAL PER CITY STD. 662
 - 5 CONSTRUCT CONCRETE SEWER ENCASEMENT PER CITY STD. CWD-022 & 023

CURVE DATA

DELTA	RADIUS	LENGTH	TANGENT
28° 28' 20"	306.58	153.34	78.29

BENCHMARK:
 3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHEAST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT, 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.887 BRASS DISK IS BROKEN OFF P.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK

UNDERGROUND SERVICE ALERT
 1-800-422-4133
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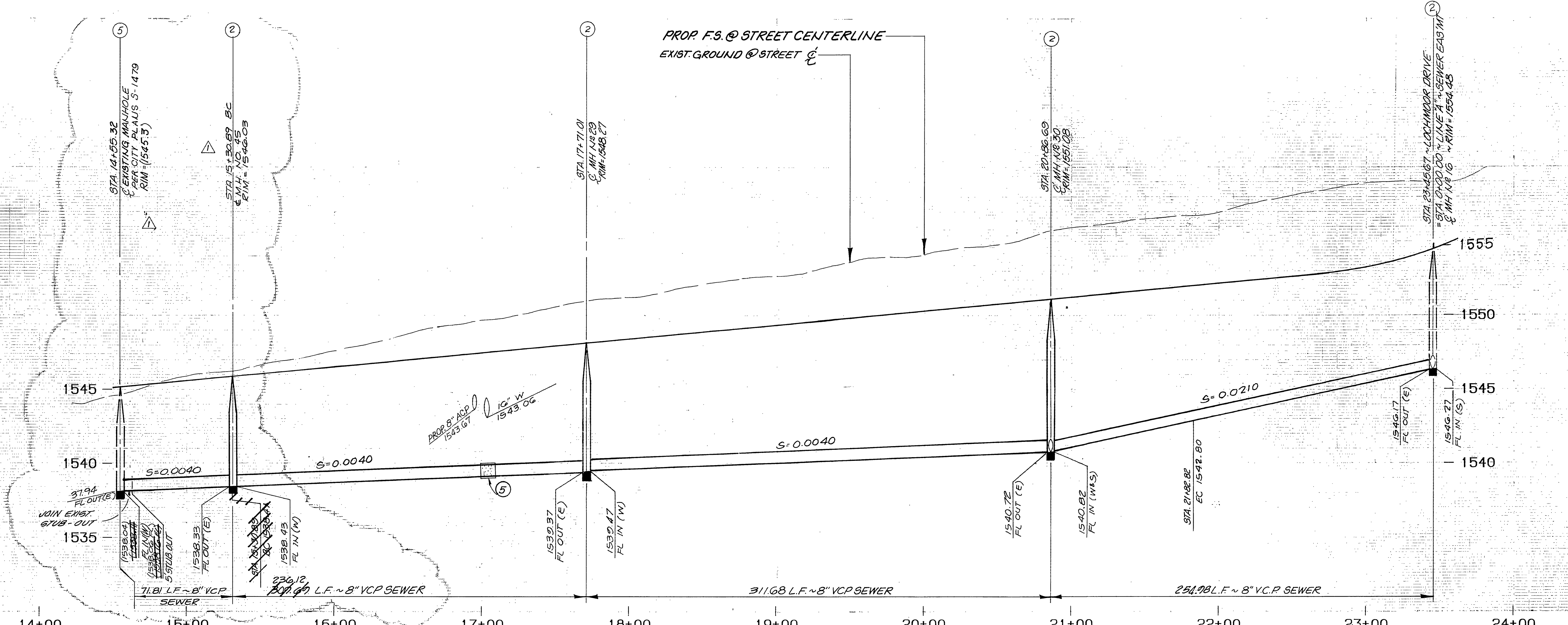
THE KEITH COMPANIES
 6295 RIVER CREST DRIVE
 SUITE K
 RIVERSIDE, CA 92507
 (714) 653-0234

APPROVED BY: *Brian L. Jensen*
 BRIAN L. JENSEN REG CIVIL ENGINEER NO. 30534 DATE

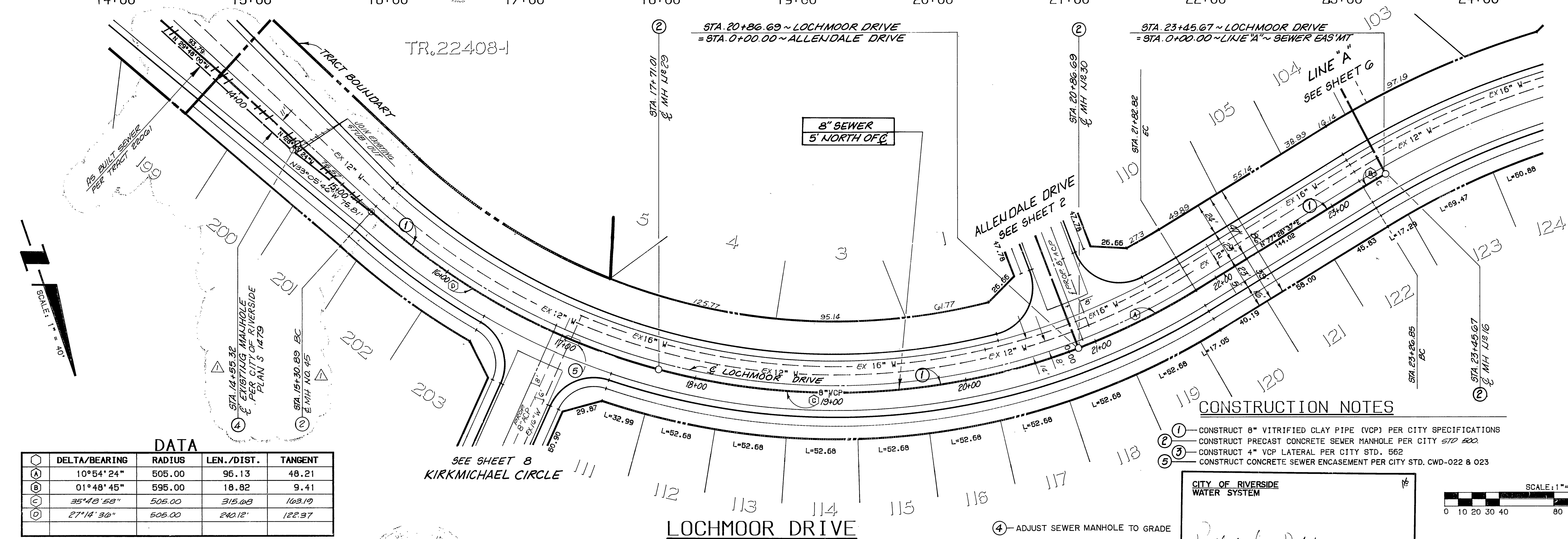
CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT
 APPROVED BY: *Richard J. Delek* DATE: 12-14-99
 PUBLIC WORKS DIRECTOR

SEWER IMPROVEMENT PLANS TRACT 22408 KIRKMICHAEL CIRCLE MACINTOSH DRIVE
 HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4'

ACCOUNT NO. 5-1500
 SHEET 8 OF 13



PROFILE SCALES
HORIZ.: 1"=40'
VERT.: 1"=4'

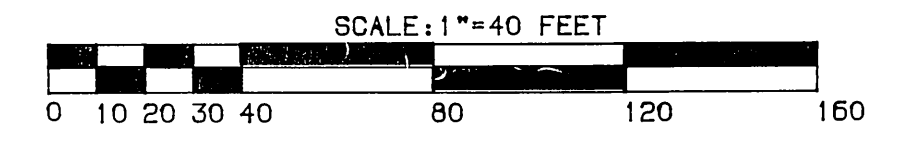


DATA

Δ	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
(A)	10°54'24"	505.00	95.13	48.21
(B)	01°48'45"	595.00	18.82	9.41
(C)	35°48'58"	505.00	315.68	163.19
(D)	27°14'36"	505.00	240.12	122.97

- CONSTRUCTION NOTES**
- CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
 - CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD. 500
 - CONSTRUCT 4" VCP LATERAL PER CITY STD. 562
 - CONSTRUCT CONCRETE SEWER ENCASEMENT PER CITY STD. CWD-022 & 023

CITY OF RIVERSIDE
WATER SYSTEM
APPROVED BY: *Richard A. Dinkel* DATE: 12-14-59



BENCHMARK:
3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHEAST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT, 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.887 BRASS DISK IS BROKEN OFF. F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK

UNDERGROUND SERVICE ALERT
1-800-422-4133
CALL TWO WORKING DAYS BEFORE YOU DIG

THE KEITH COMPANIES
6296 RIVER CREST DRIVE
SUITE K
RIVERSIDE, CA 92507
(714) 653-0234

APPROVED BY: *Brian L. Jensen*
BRIAN L. JENSEN REG. CIVIL ENGINEER NO. 30534 DATE: _____

CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT

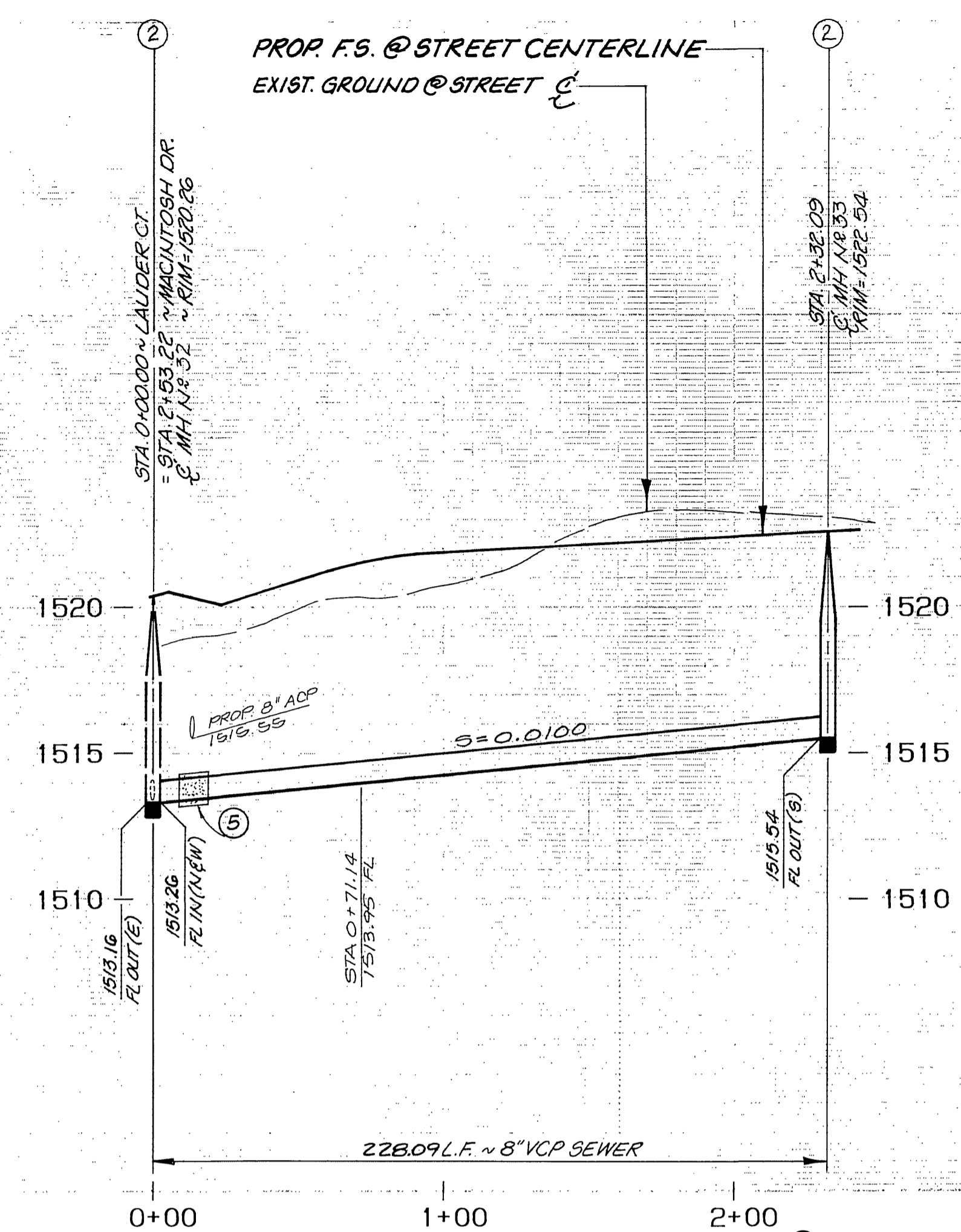
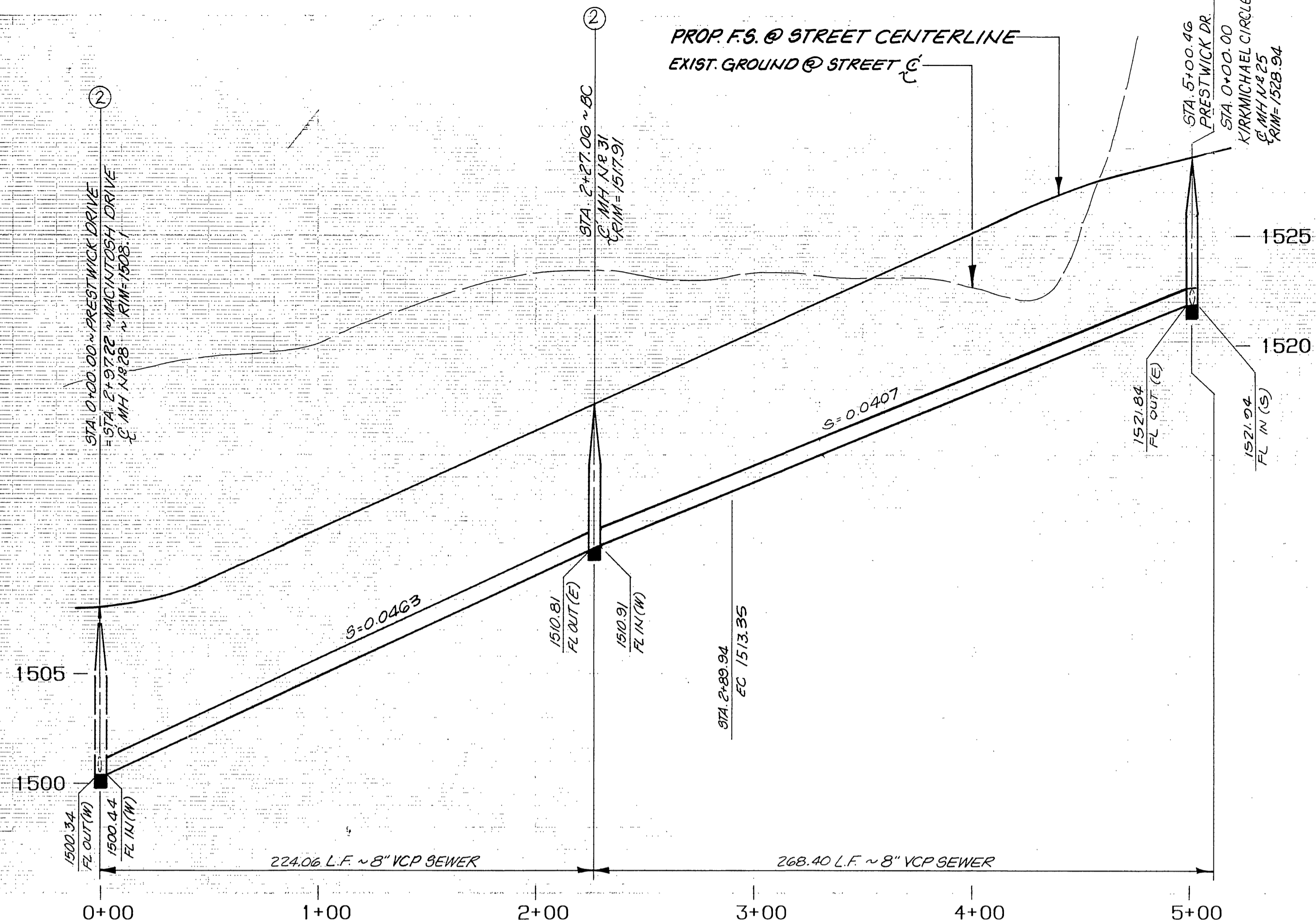
APPROVED BY: *Richard A. Dinkel* DATE: 12-14-59

PRINCIPAL ENGINEER: *3/1/59*
MARK DEPARTMENT: *llc*
TRAFFIC DIVISION: _____
CHIEF P.W. ENGINEER: _____ DATE: *2/6/59*

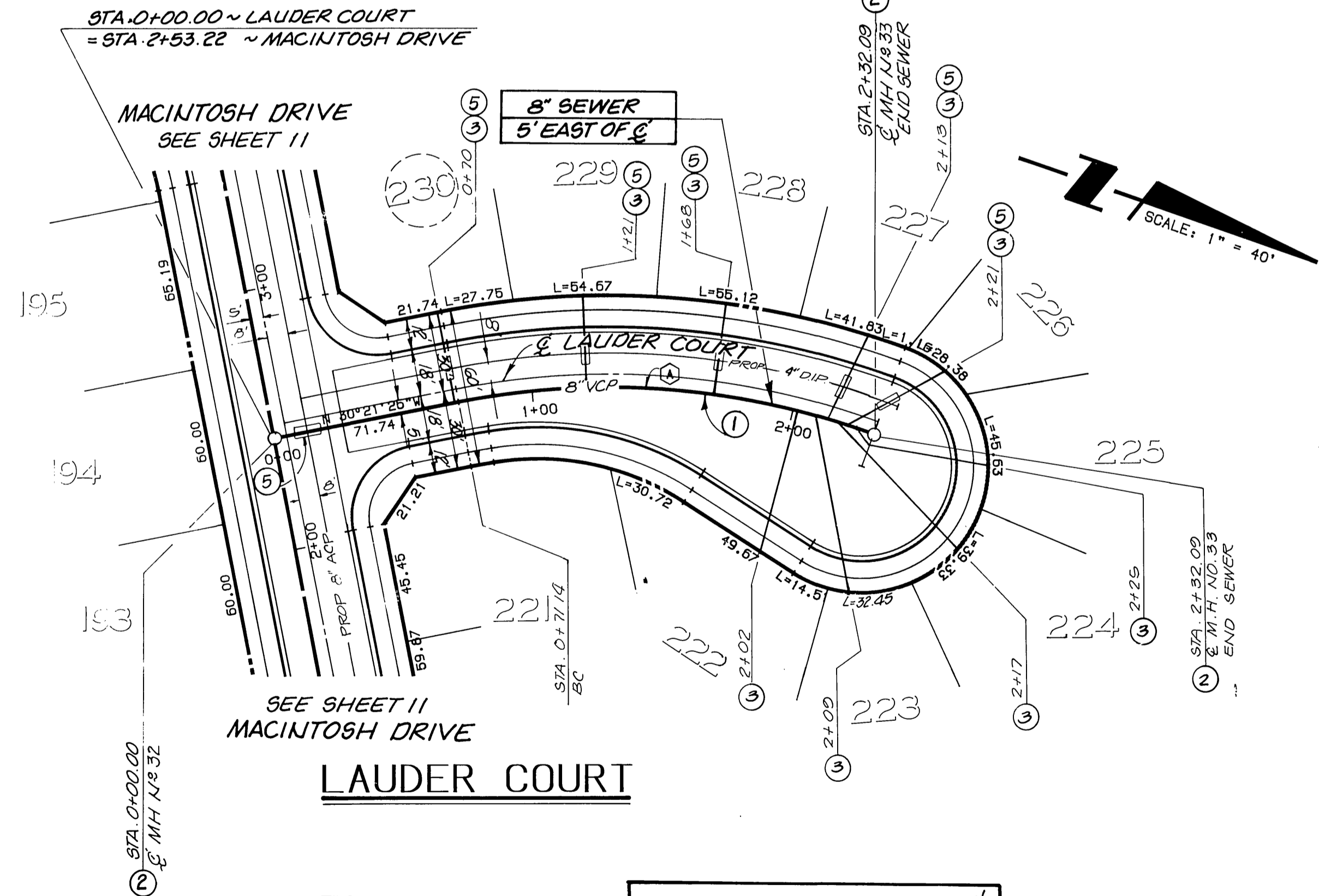
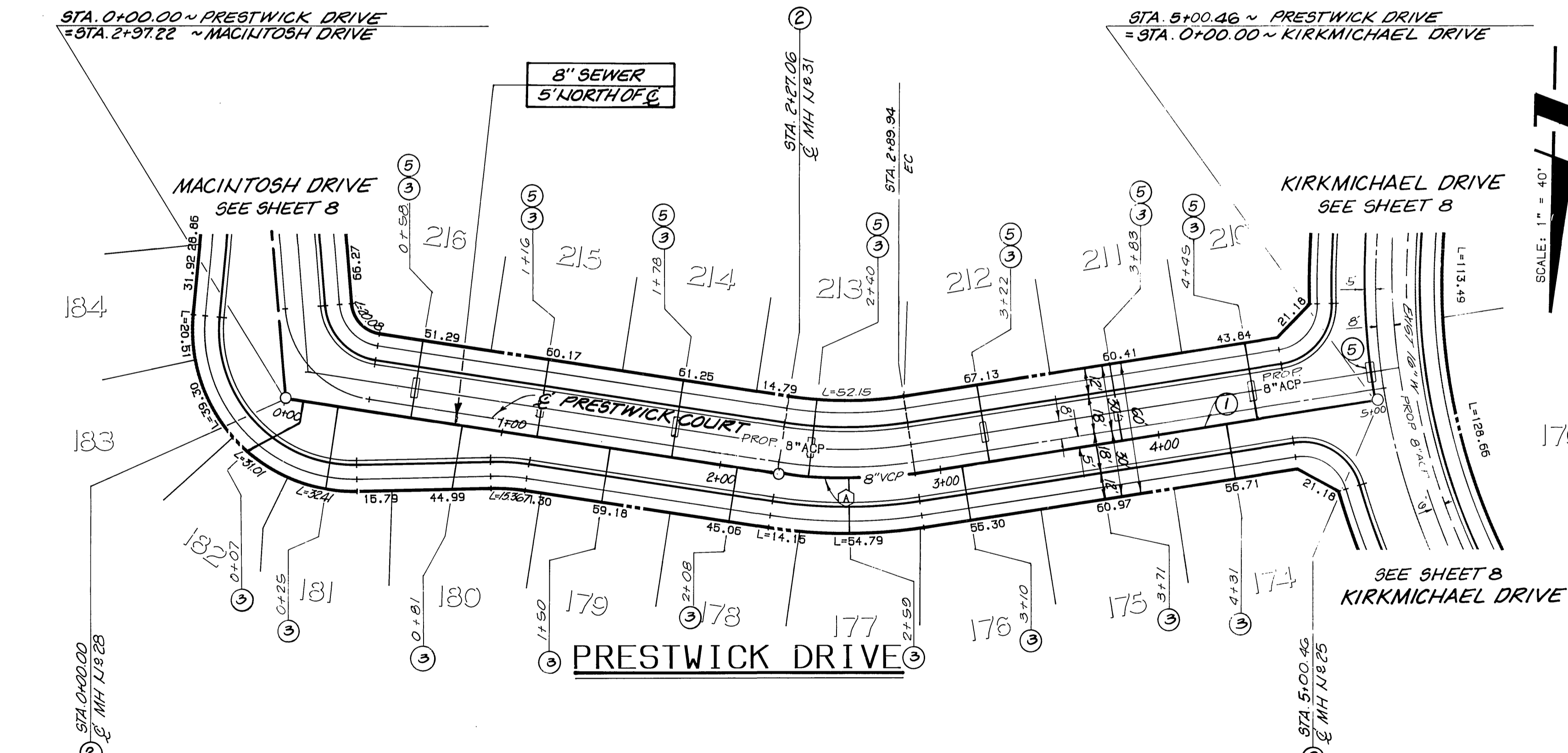
SEWER IMPROVEMENT PLANS
TRACT 22408
LOCHMOOR DRIVE

ACCOUNT NO. *5-1500*
SHEET *9* OF *13*

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



PROFILE SCALES
HORIZ.: 1"=40'
VERT.: 1"=4'



DATA

DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
17°34'30"	205.00	62.88	31.69

- CONSTRUCTION NOTES
- CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
 - CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD. 500.
 - CONSTRUCT 4" VCP LATERAL PER CITY STD. 562
 - CONSTRUCT CONCRETE SEWER ENCASUREMENT PER CITY STD. CWD-022 & 023

DATA

DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
31°08'40"	295.00	160.35	82.21

CITY OF RIVERSIDE
WATER SYSTEM

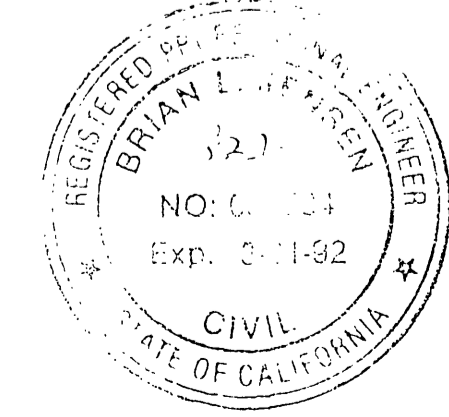
APPROVED BY: *[Signature]* DATE: 12-17-89

SCALE: 1"=40 FEET

0 10 20 30 40 80 120 160

BENCHMARK:
3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHWEST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK OUT, 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.687 (BRASS DISK IS BROKEN OFF F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK)

UNDERGROUND SERVICE ALERT
1-800-422-4133
CALL TWO WORKING DAYS BEFORE YOU DIG



THE KEITH COMPANIES
6296 RIVER CREST DRIVE
SUITE 104
RIVERSIDE, CA 92507
(714) 653-0234

APPROVED BY: *[Signature]*
BRIAN L. JENSEN REG. CIVIL ENGINEER NO. 30634 DATE

MARK REVISIONS

MARK	REVISIONS	APPR. DATE
1	DESIGNED BY BK	
2	DRAWN BY WLL	
3	CHECKED BY BLS	

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

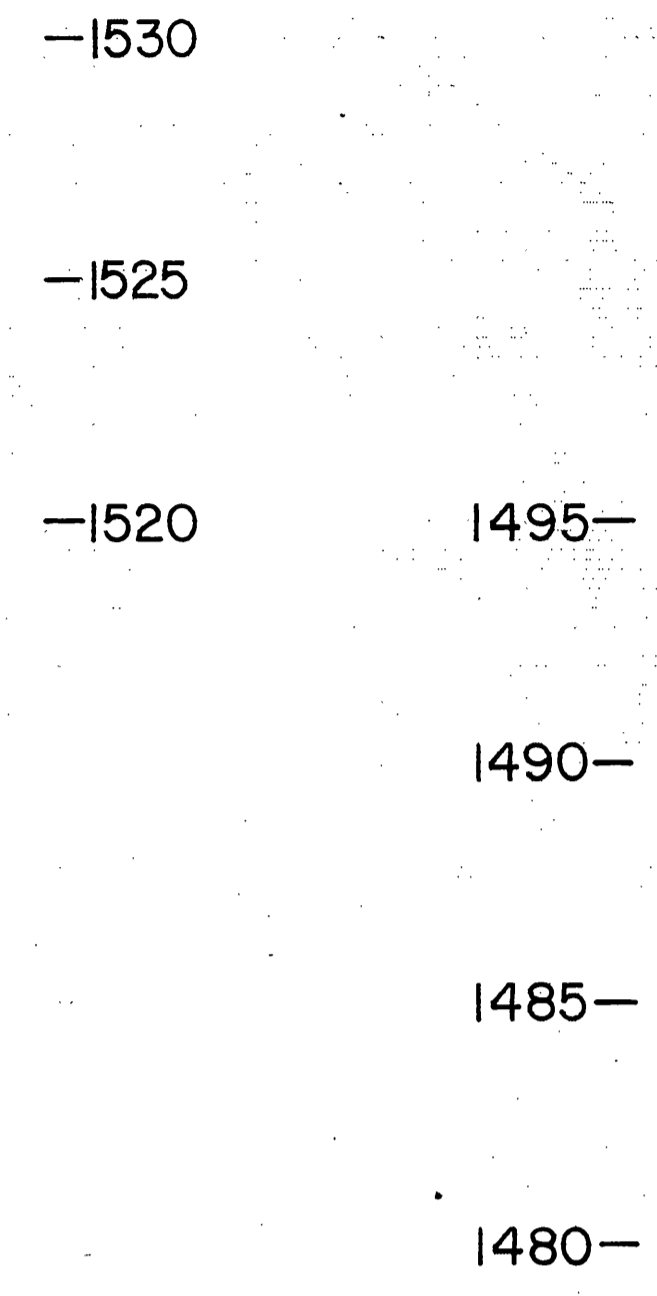
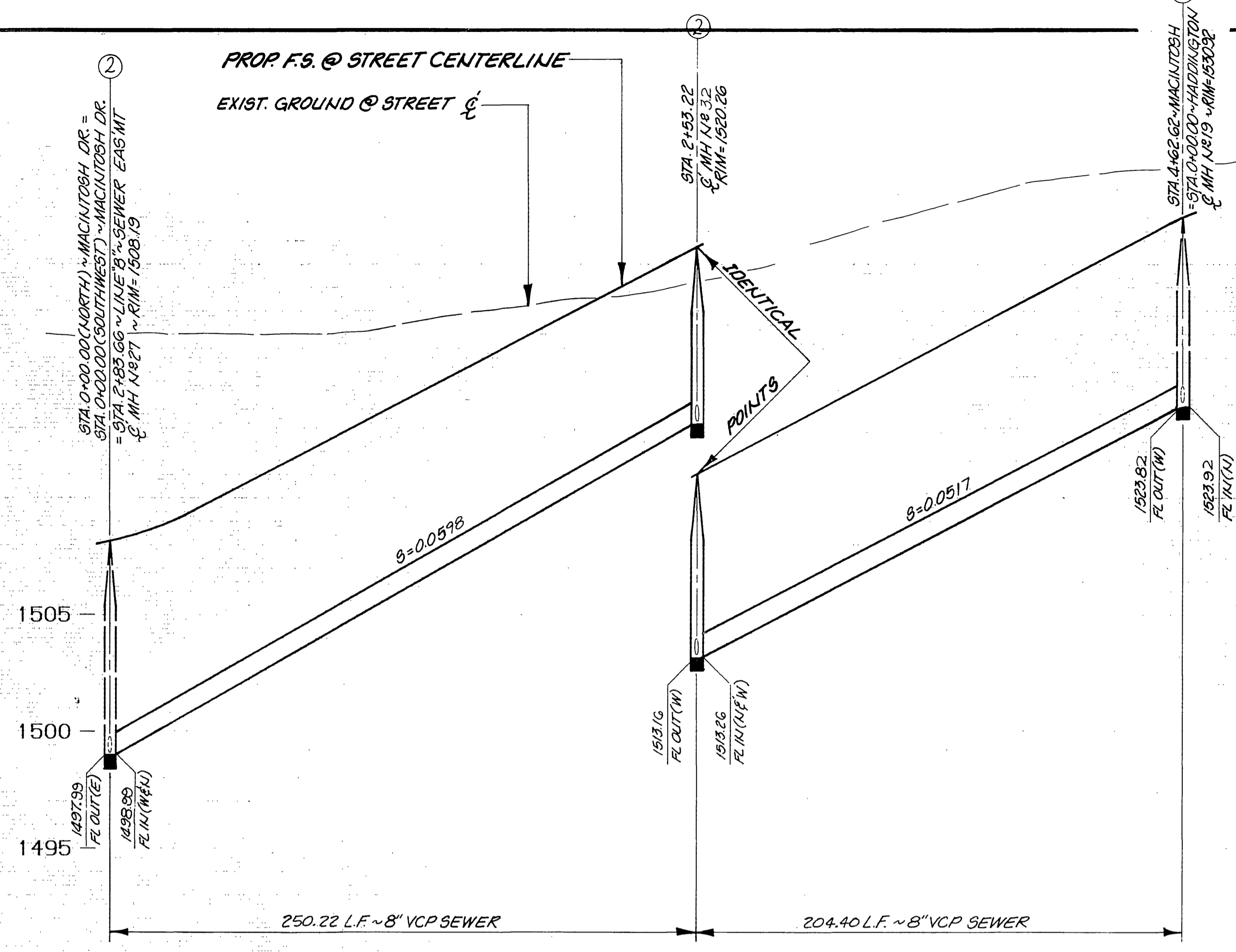
APPROVED BY: *[Signature]* DATE: 3.6.90

PRINCIPAL ENGINEER
TRAFFIC DIVISION
CHIEF P.W. ENGINEER

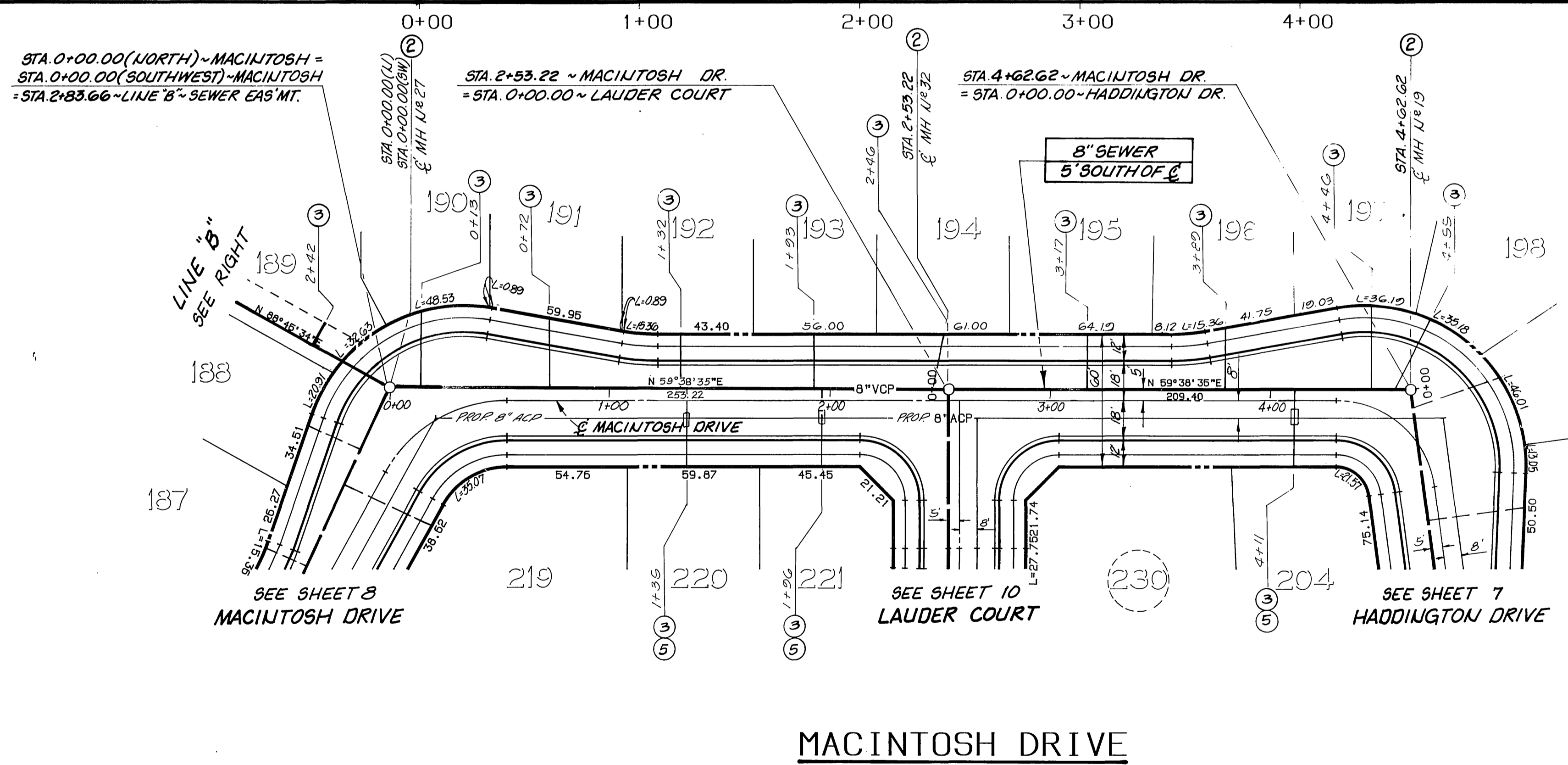
SEWER IMPROVEMENT PLANS
TRACT 22408
PRESTWICK DR/LAUDER CT

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

ACCOUNT NO. 5-1500
SHEET 10 OF 13



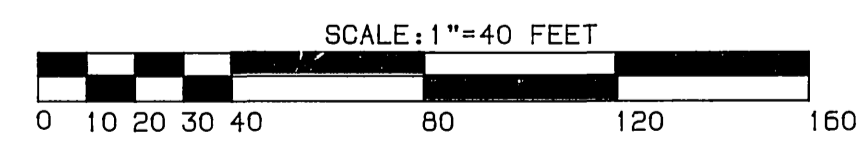
PROFILE SCALES
HORIZ.: 1"=40'
VERT.: 1"=4'



CAUTION:
CONTRACTOR SHALL POTHOLE
AND VERIFY LOCATION OF
EXISTING GAS LINE PRIOR
TO CONSTRUCTION

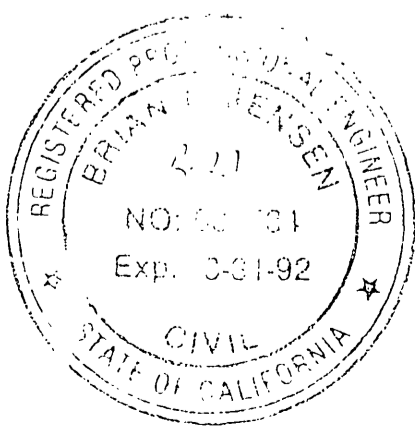
CONSTRUCTION NOTES

- ① CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
- ② CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD. 500
- ③ CONSTRUCT 4" VCP LATERAL PER CITY STD. 562
- ⑤ CONSTRUCT CONCRETE SEWER ENCASUREMENT PER CITY STD. CWD-022 & 023



CITY OF RIVERSIDE
WATER SYSTEM

APPROVED BY: *Richard L. Jensen* 12-17-89
DATE



THE KEITH COMPANIES
6296 RIVER CREST DRIVE
SUITE K
RIVERSIDE, CA 92507
(714) 653-0234

APPROVED BY: *Brian L. Jensen*
BRIAN L. JENSEN REG. CIVIL ENGINEER NO. 30534

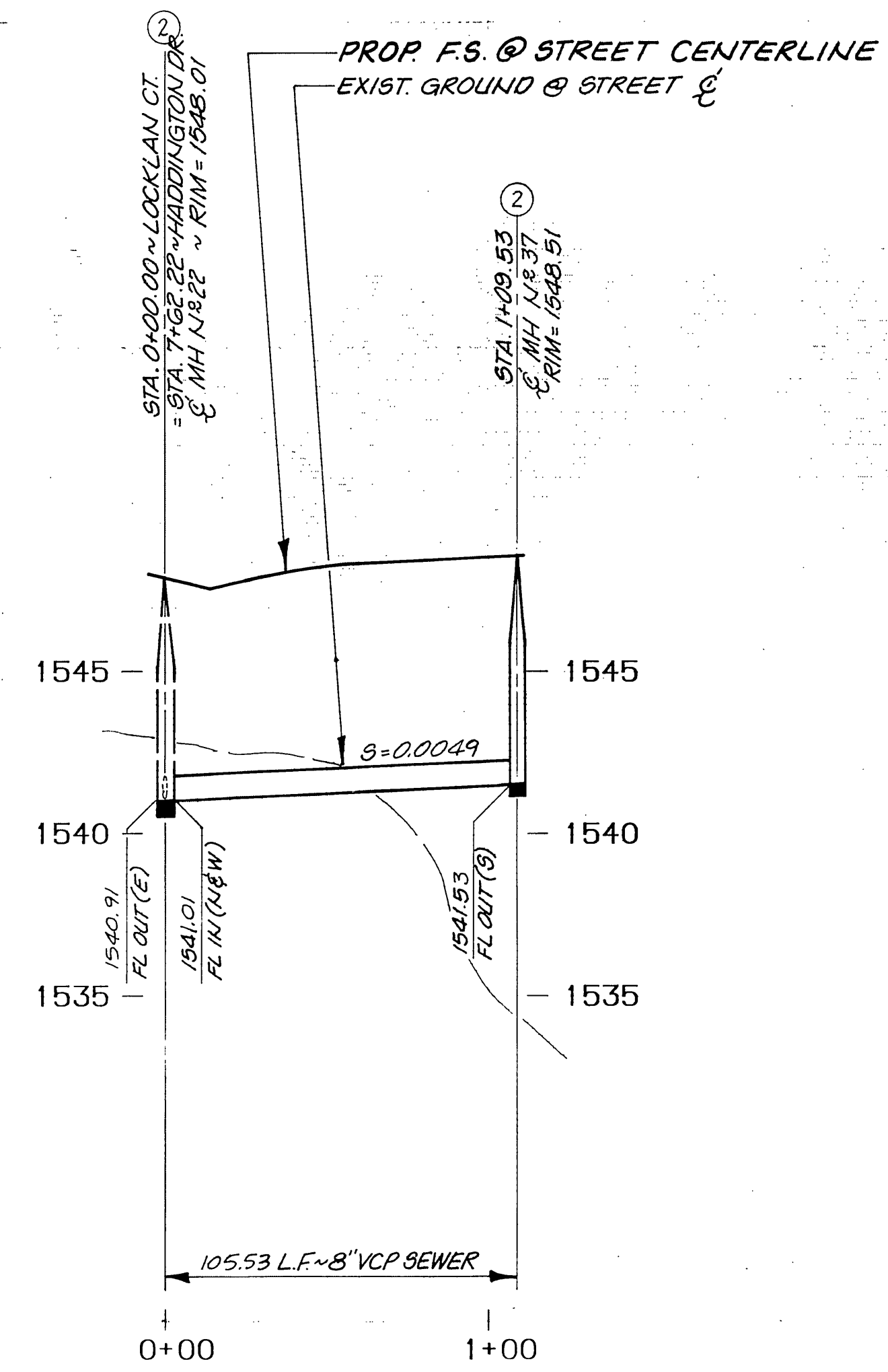
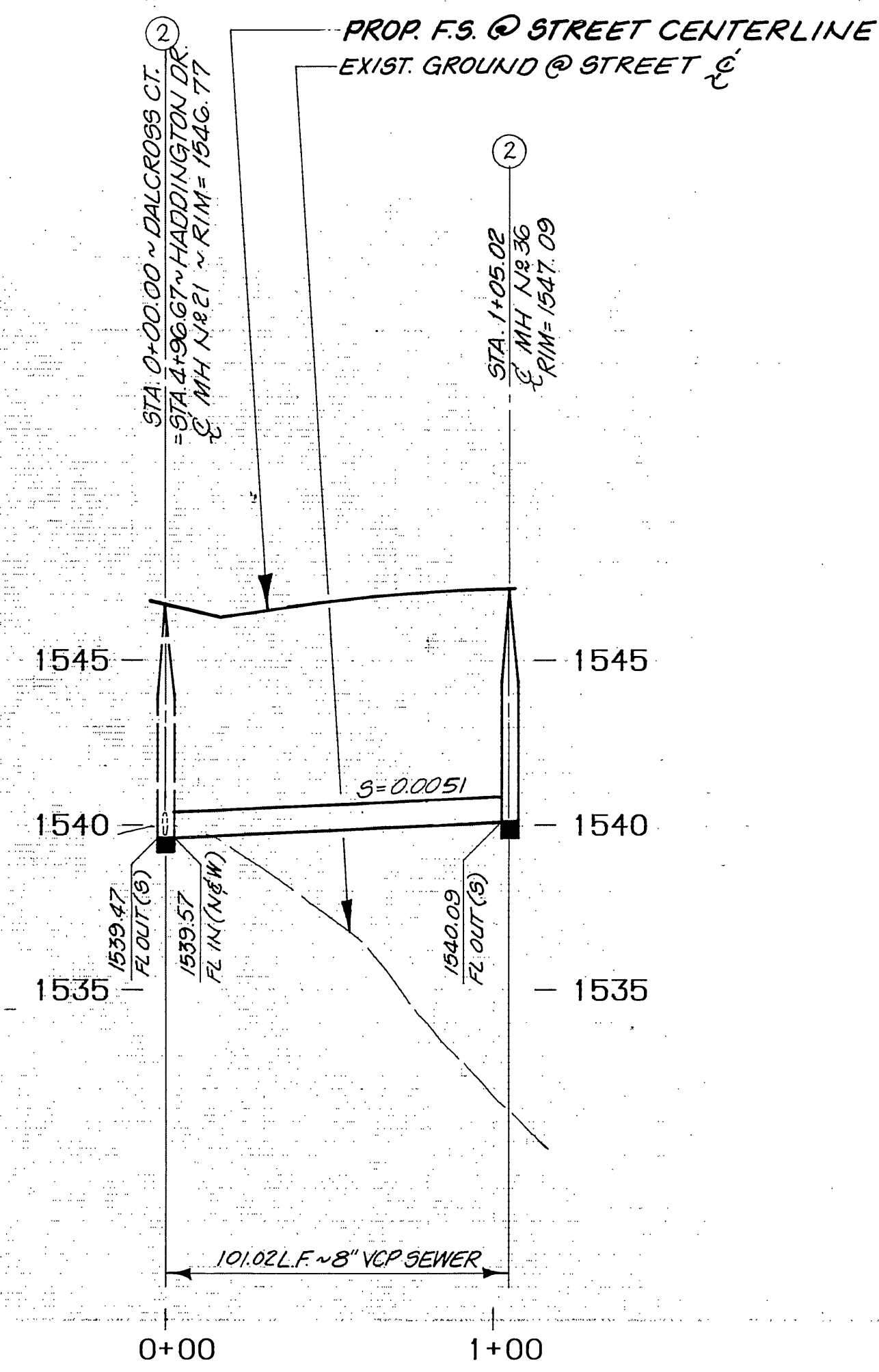
CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
APPROVED BY: *Brian L. Jensen*
DATE: 3/6/90
PRINCIPAL ENGINEER: *Brian L. Jensen*
DATE: 1-12
TRAFFIC DIVISION: *Brian L. Jensen*
DATE: 3/6/90
CHIEF P.W. ENGINEER: *Brian L. Jensen*
DATE: 3/6/90

SEWER IMPROVEMENT PLANS
TRACT 22408
MACINTOSH DR/LINE "B"
HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4'

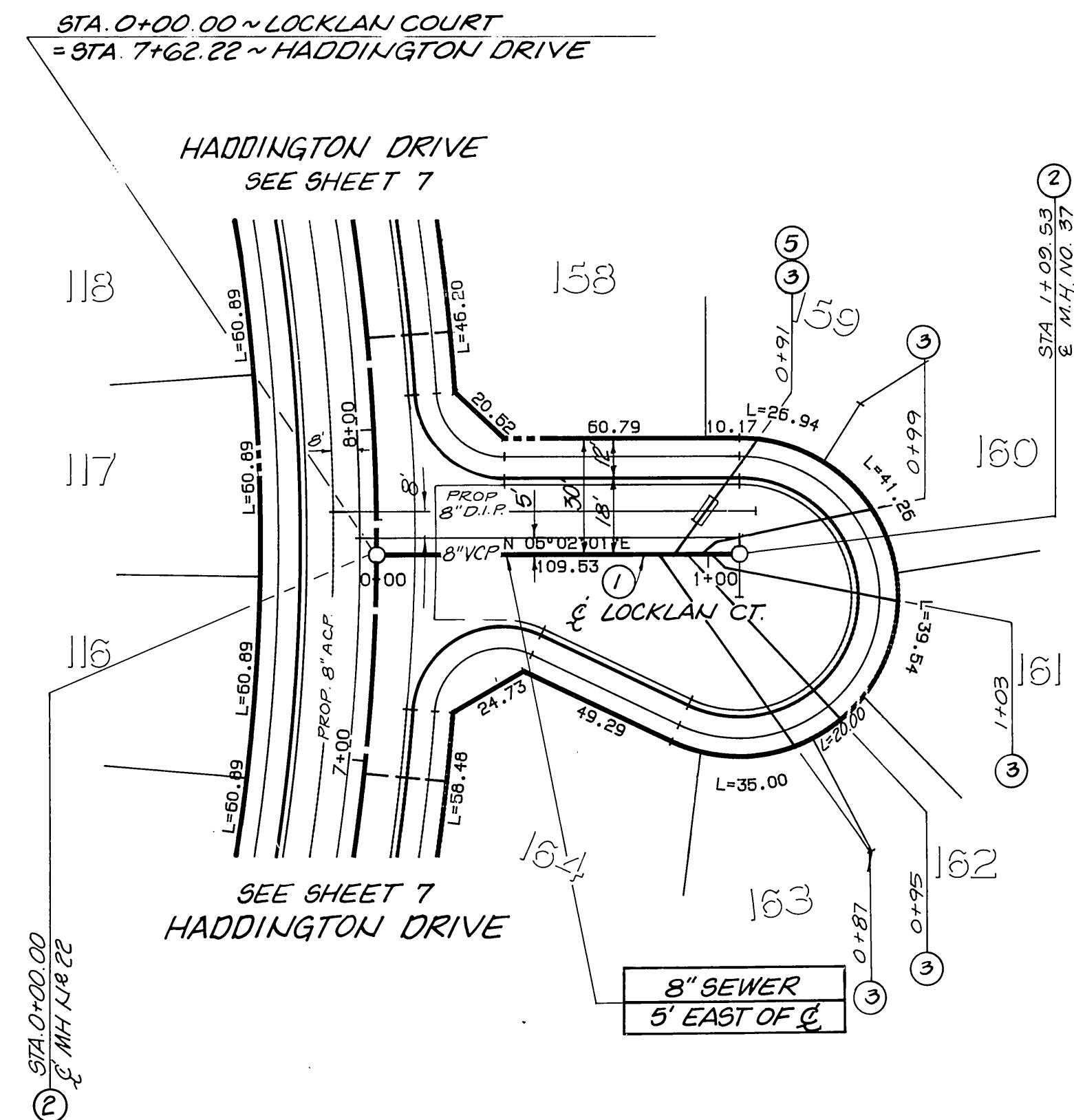
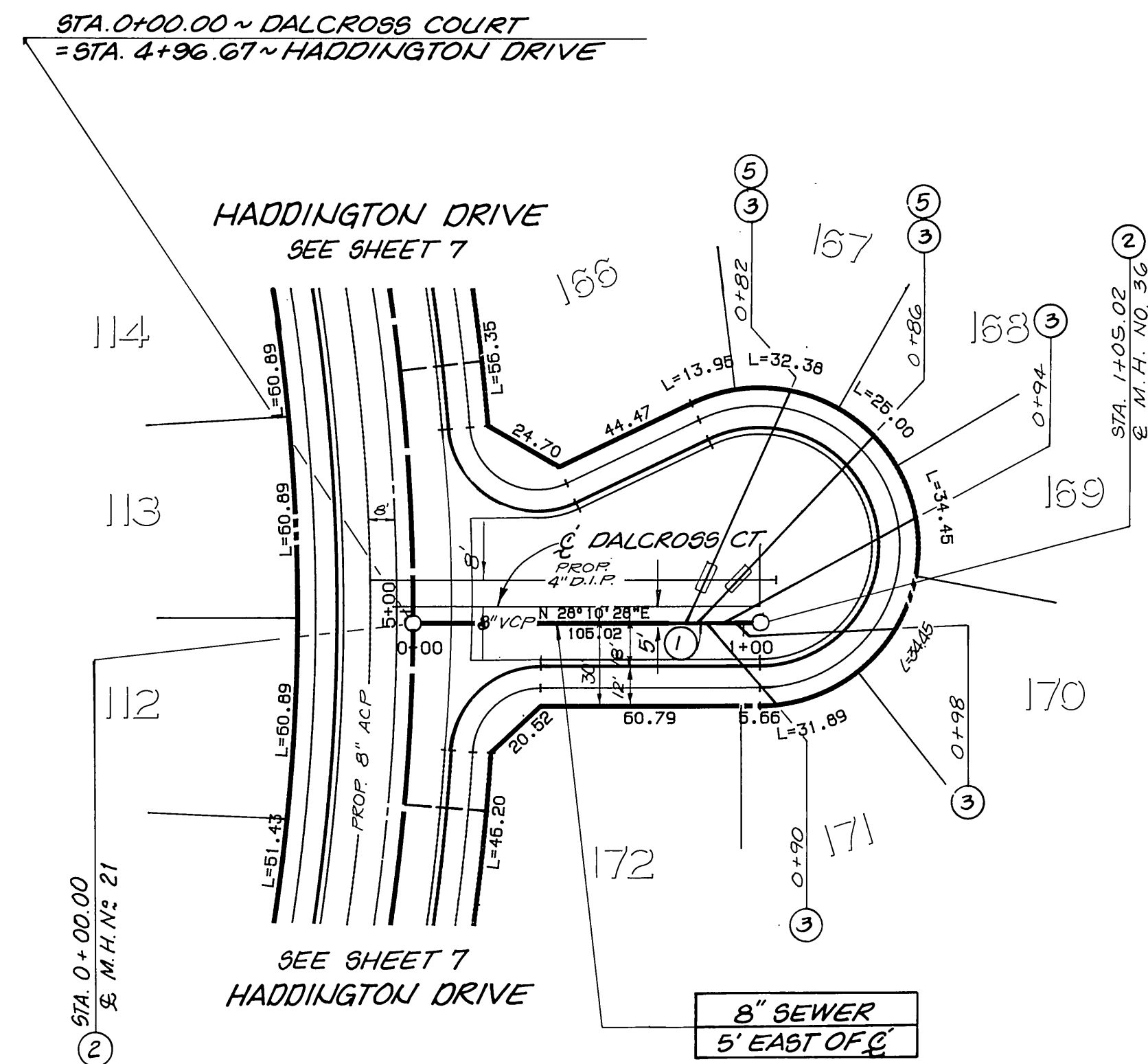
ACCOUNT NO.
5-1500
SHEET 11 OF 13

BENCHMARK:
3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND
SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76
FEET SOUTHWEST OF MILEPOST 6, SET VERTICALLY IN THE
SOUTHWEST FACE OF A ROCK CUT, 7 FEET NORTHEAST OF THE
NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT
1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED
D1144 1961 ELEVATION 1461.887 (BRASS DISK IS BROKEN
OFF F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN
ALONG SIDE SHANK)

UNDERGROUND SERVICE ALERT
1-800-422-4133
CALL TWO WORKING DAYS BEFORE YOU DIG



PROFILE SCALES
 HORIZ.: 1"=40'
 VERT.: 1"=4'



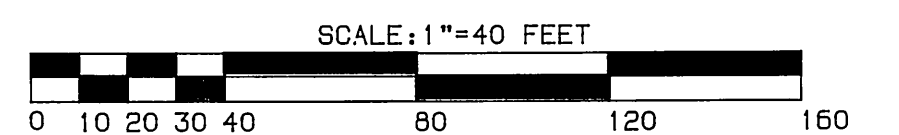
CITY OF RIVERSIDE
 WATER SYSTEM
 APPROVED BY: [Signature] DATE: 12-14-89

DALCROSS COURT

CONSTRUCTION NOTES

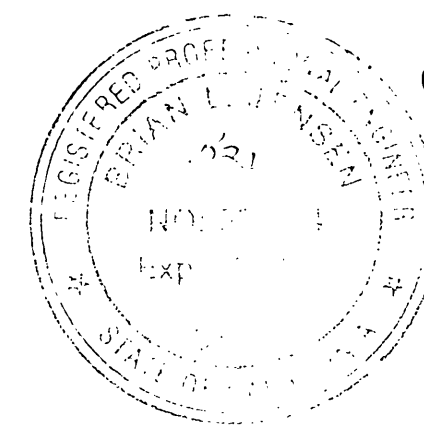
- 1 CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
- 2 CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD 500
- 3 CONSTRUCT 4" VCP LATERAL PER CITY STD. 562
- 5 CONSTRUCT CONCRETE SEWER ENGAGEMENT PER CITY STD. CWD-022 & 023

LOCKLAN COURT



BENCHMARK:
 3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHEAST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT, 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.687 (BRASS DISK IS BROKEN OFF F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK)

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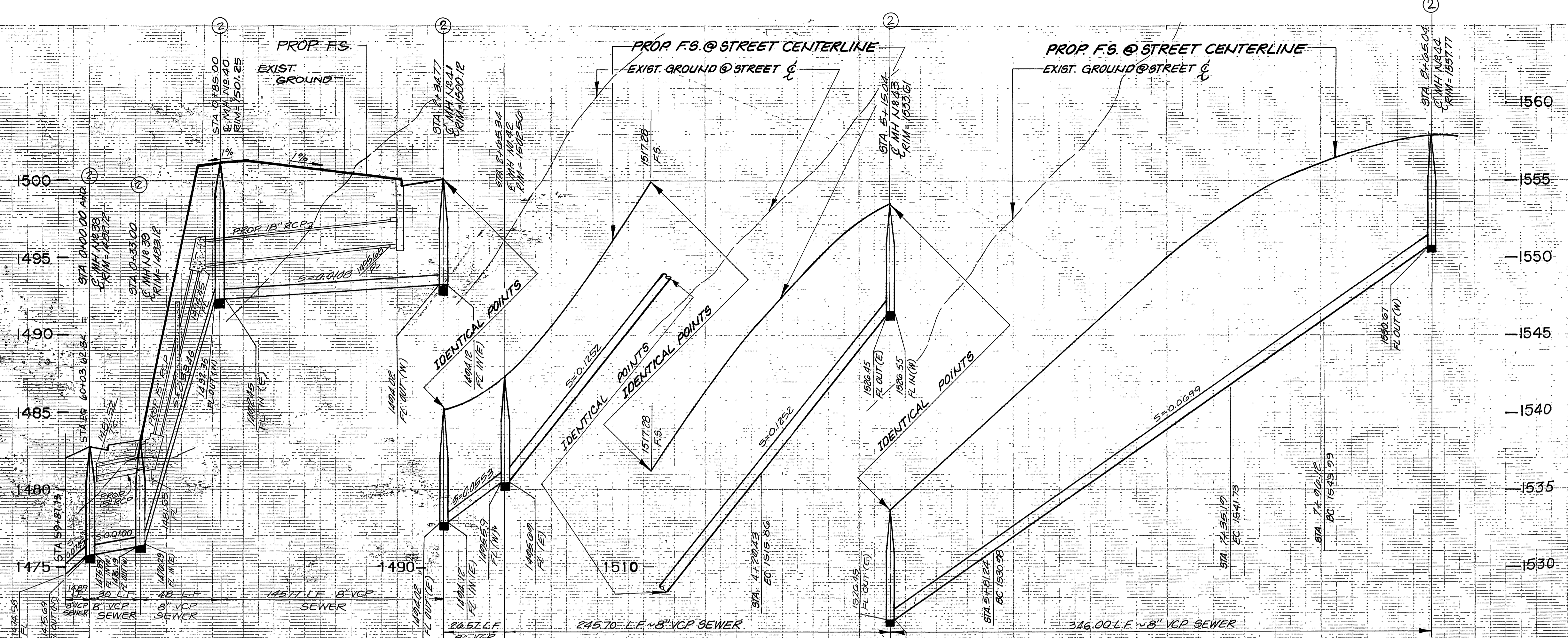
THE KEITH COMPANIES
 6296 RIVER CREST DRIVE
 SUITE K
 RIVERSIDE, CA 92507
 (714) 653-0234
 APPROVED BY: [Signature] DATE: [Blank]
 DESIGNED BY: [Signature] DRAWN BY: [Signature] CHECKED BY: [Signature]

MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature] DATE: 3/1/90
 PUBLIC WORKS DIRECTOR

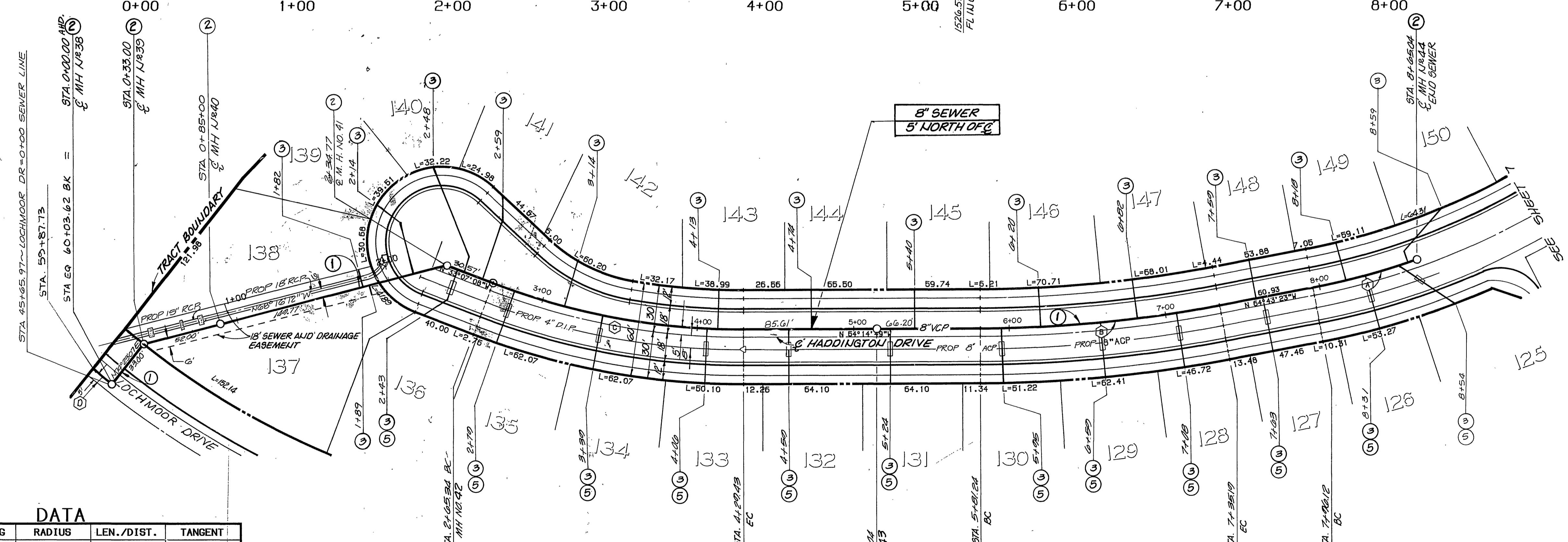
SEWER IMPROVEMENT PLANS
 TRACT 22408
 DALCROSS CT/LOCKLAN CT
 HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4'

ACCOUNT NO. 5-1500
 SHEET 12 OF 13



NOTICE TO CONTRACTOR
 SEWER IMPROVEMENTS FROM STA. 0+00.00 TO STA. 8+65.04 SHALL NOT BE CONSTRUCTED PRIOR TO SEWER IMPROVEMENT PLAN APPROVAL OF TRACT 22408 AND/OR AS DIRECTED BY THE CITY OF RIVERSIDE PUBLIC WORKS DEPT.

PROFILE SCALES
 HORIZ.: 1"=40'
 VERT.: 1"=4'



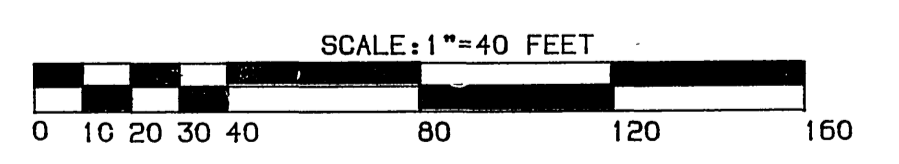
DATA

DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
(A) 08°56'01"	442.00	68.92	34.53
(B) 10°28'34"	842.00	153.95	77.19
(C) 21°07'41"	445.00	164.10	82.99
(D) 1°40'15"	545.00	15.00	7.95

HADDINGTON DRIVE

- CONSTRUCTION NOTES**
- CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
 - CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD. 502
 - CONSTRUCT 4" VCP LATERAL PER CITY STD. 562
 - CONSTRUCT CONCRETE SEWER ENCASUREMENT PER CITY STD. CWD-022 & 023

CITY OF RIVERSIDE
 WATER SYSTEM
 APPROVED BY: *Richard J. Doherty* 12-14-89
 DATE



BENCHMARK:
 3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHWEST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT, 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.867 (BRASS DISK IS BROKEN OFF F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK)

UNDERGROUND SERVICE ALERT
 1-800-422-4133
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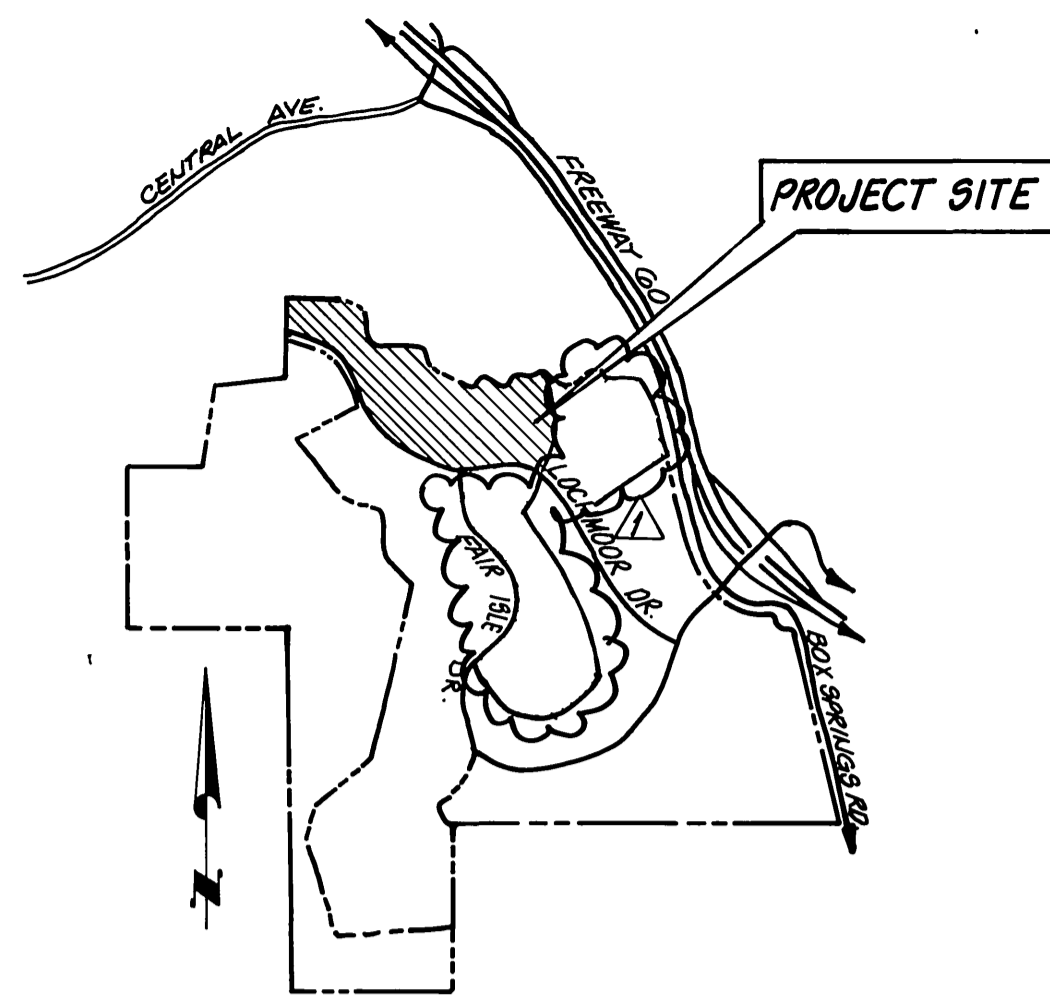
THE KEITH COMPANIES
 6296 RIVER CREST DRIVE
 SUITE K
 RIVERSIDE, CA 92507
 (714) 653-0234
 APPROVED BY: *Brian L. Jensen*
 BRIAN L. JENSEN REG. CIVIL ENGINEER NO. 30634 - DATE

MARK	REVISIONS	APPR. DATE

CITY OF RIVERSIDE
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: *Richard J. Doherty*
 DATE: 3/6/90

SEWER IMPROVEMENT PLANS
 TRACT 22408
HADDINGTON DRIVE
 HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4'

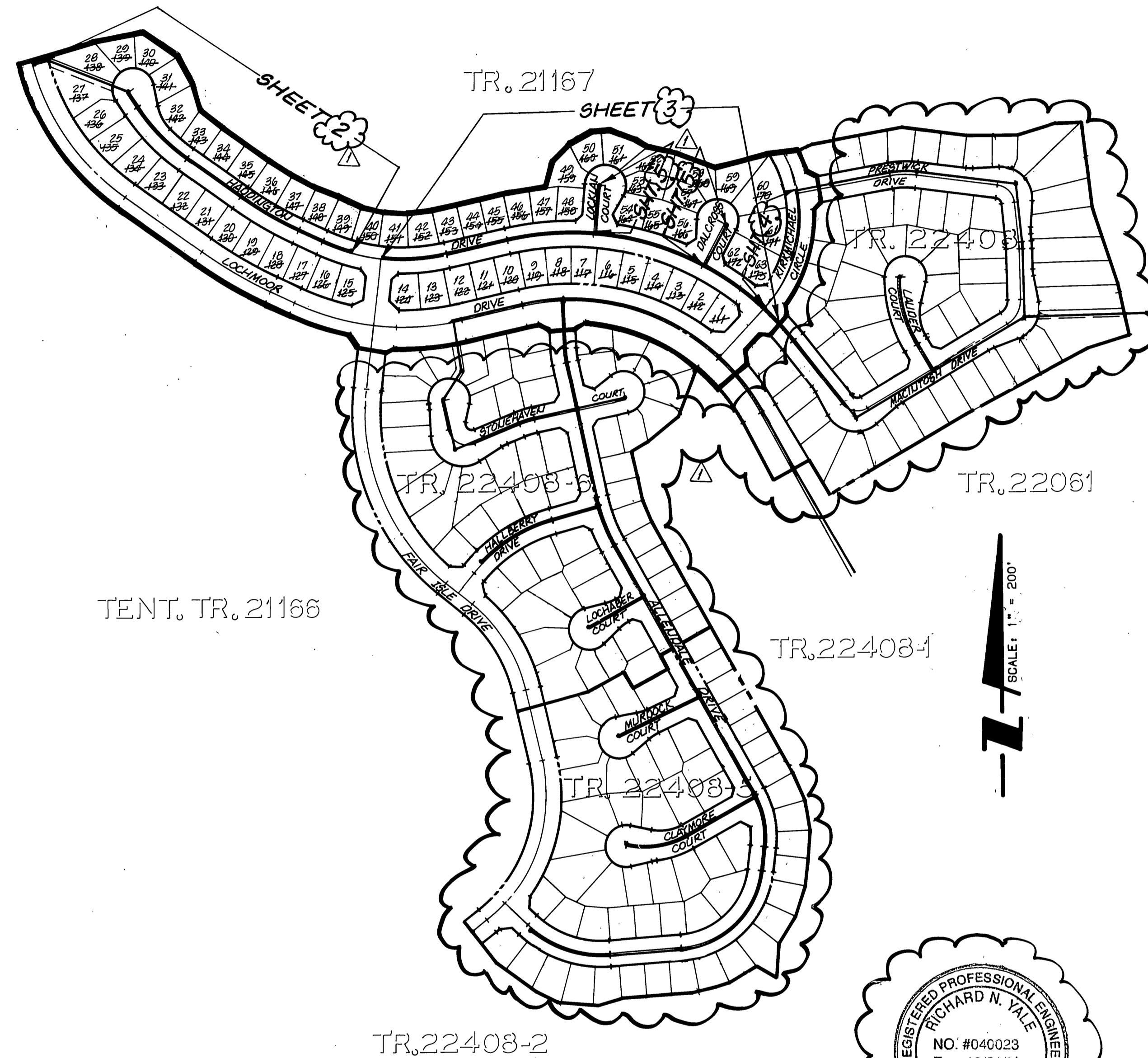
ACCOUNT NO.
 5-1566
 SHEET 13 OF 13



VICINITY MAP
NOT TO SCALE

SYCAMORE HIGHLANDS SEWER IMPROVEMENT PLANS

TRACT 22408-7
IN THE CITY OF RIVERSIDE



INDEX MAP
SCALE: 1"=200'



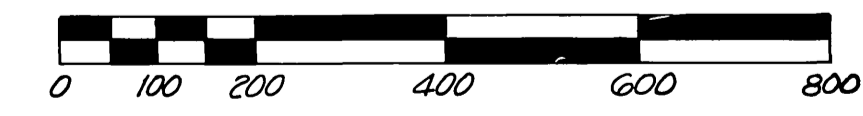
FOR REVISION ONLY
APPROVED BY:
Richard N. Vale 9-8-97
RICHARD N. VALE DATE
R.C.E. NO. 40023 EXP. 12/31/01

CONSTRUCTION NOTES

- 1 CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
- 2 CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD. 500.
- 3 CONSTRUCT 4" VCP LATERAL PER CITY STD. 562 & 562A
- 4 CONSTRUCT CONCRETE SEWER ENCASUREMENT PER CITY STD. CWD-022 & 023
- 5 CONSTRUCT CONCRETE SEWER ENCASEMENT PER CITY STD. CWD-022 & 023

SEWER QUANTITY ESTIMATE			
NO.	DESCRIPTION	QUANTITY	UNIT
1	8" VCP SEWER	8712	L.F.
2	MANHOLES PER CITY STD. NO. 500	44	EA.
3	4" LATERAL PER CITY STD. NO. 562 & 562A	8,300	L.F.
4	ADJUST SEWER MANHOLE TO GRADE	51	EA.
5	CONCRETE SEWER ENCASEMENT PER CITY STD. CWD-022 & 023	300	L.F.

CITY OF RIVERSIDE
WATER SYSTEM
APPROVED BY: *Richard N. Vale* 1/21/98 DATE
APPROVED BY: *Richard N. Vale* 12-14-89 DATE



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.

BENCHMARK:
3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHEAST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1461.887 (BRASS DISK IS BROKEN OFF F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK)

UNDERGROUND SERVICE ALERT
1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG



THE KEITH COMPANIES
6296 RIVER CREST DRIVE
SUITE K
RIVERSIDE, CA 92507
(714) 653-0234
APPROVED BY: *Brian L. Jensen*
BRIAN L. JENSEN REG. CIVIL ENGINEER NO. 30534 DATE

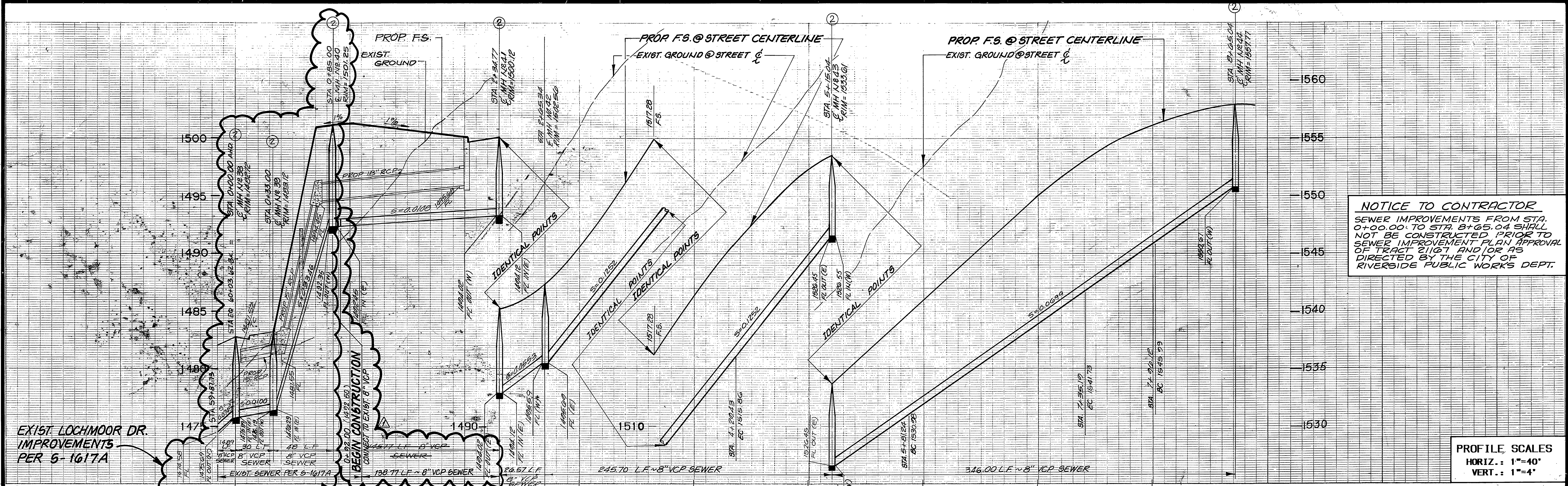
DESIGNED BY: BK
DRAWN BY: WLL
CHECKED BY: BB
DATE: 3/6/90

CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT
APPROVED BY: *Brian L. Jensen* DATE: 1/21/98
PRINCIPAL ENGINEER: *Barry Bell* DATE: 3/6/90
PUBLIC WORKS DIRECTOR

SEWER IMPROVEMENT PLANS
TRACT 22408-7
TITLE SHEET
HORIZ. SCALE: 1"=AS SHOWN VERT. SCALE: 1"=AS SHOWN

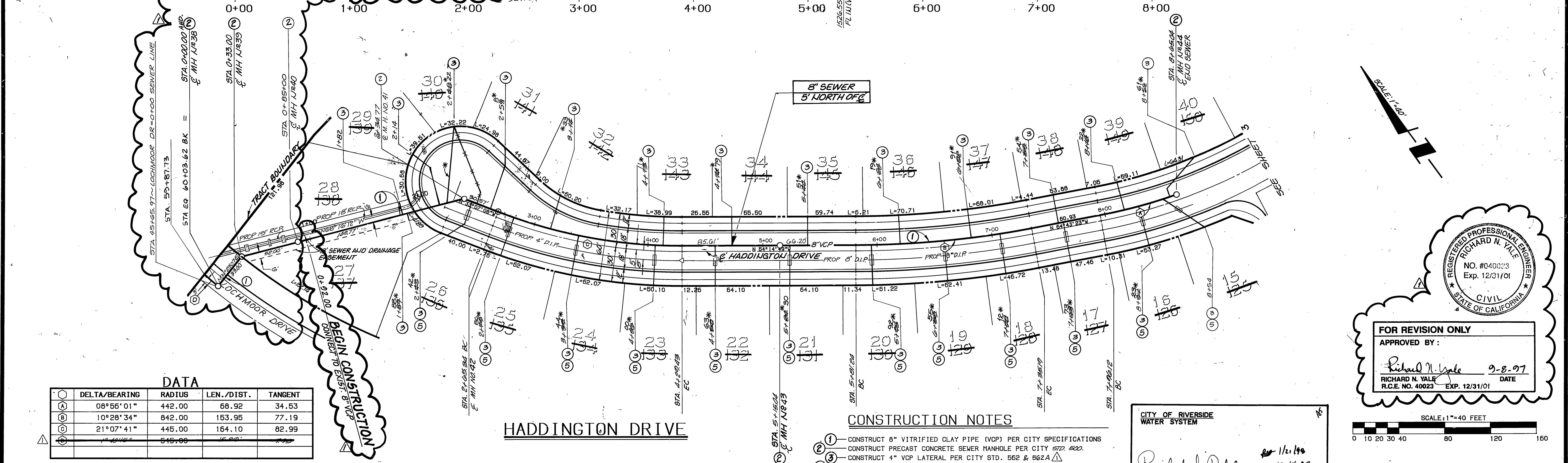
AS BUILT 11/22/99 R/W
ACCOUNT NO. 5-1500
SHEET 1 OF 5

- ### 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 OR THE LUSK COMPANY.
 2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS 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 AND OR THE LUSK COMPANY IS NOT RESPONSIBLE FOR THEIR ACCURACY.
 5. 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.
 6. ON ALL AREAS WITHIN PUBLIC RIGHT-OF-WAY, WHERE THE FILL IS ONE (1) FOOT OR GREATER, A LETTER WILL BE REQUIRED FOR THE SOILS ENGINEER, CERTIFYING THE COMPACTION OF THE FILL BELOW SUBGRADE, PRIOR TO ISSUANCE OF THE CONSTRUCTION PERMIT/CUT SHEETS.
 7. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), 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.
 8. CONTRACTOR IS TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION.
 9. LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE OWNER. AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.
 10. NO FINISHED FLOOR ELEVATION SHALL BE LESS THAN 4' ABOVE THE SEWER FLOW LINE AT POINT OF CONNECTION WITHOUT HAVING A PROPER BACKWATER VALVE INSTALLED IN THE LATERAL.
 11. 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.
 12. THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
 13. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.



NOTICE TO CONTRACTOR
 SEWER IMPROVEMENTS FROM STA. 0+00.00 TO STA. 8+65.04 SHALL NOT BE CONSTRUCTED PRIOR TO SEWER IMPROVEMENT PLAN APPROVAL OF TRACT 21107 AND/OR AS DIRECTED BY THE CITY OF RIVERSIDE PUBLIC WORKS DEPT.

PROFILE SCALES
 HORIZ.: 1"=40'
 VERT.: 1"=4'

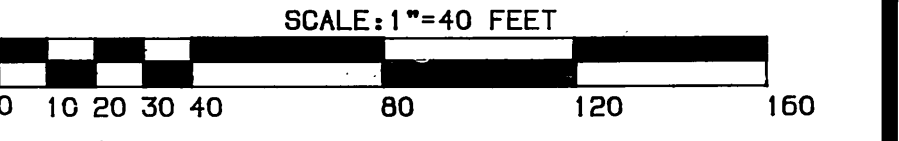


DATA

Δ	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
⊙	08°56'01"	442.00	66.92	34.53
⊙	10°28'34"	842.00	153.95	77.19
⊙	21°07'41"	445.00	164.10	82.99
⊙	1°14'16"	545.00	16.00	11.00

- CONSTRUCTION NOTES**
- CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
 - CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD. 522
 - CONSTRUCT 4" VCP LATERAL PER CITY STD. 562 & 562A
 - CONSTRUCT CONCRETE SEWER ENCASUREMENT PER CITY STD. CWD-022 & 023

FOR REVISION ONLY
 APPROVED BY:
 Richard N. Yule 9-8-97
 RICHARD N. YULE 9-8-97 DATE
 R.C.E. NO. 40023 EXP. 12/31/01



BENCHMARK:
 3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHEAST OF MILEPOST 6. SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT, 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.087 (BRASS DISK IS BROKEN OFF FD. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK)

UNDERGROUND SERVICE ALERT
 1-800-227-2600
 CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
 BRIAN L. JENSEN
 No. 037734
 Exp. 3-31-92
 CIVIL
 STATE OF CALIFORNIA

THE KEITH COMPANIES
 6266 RIVER CREST DRIVE
 SUITE K
 RIVERSIDE, CA 92507
 (714) 653-0234

MARK	REVISIONS	APPR.	DATE
Δ	REVISED PER TRACT MAP PHASING	RL	1/28/98

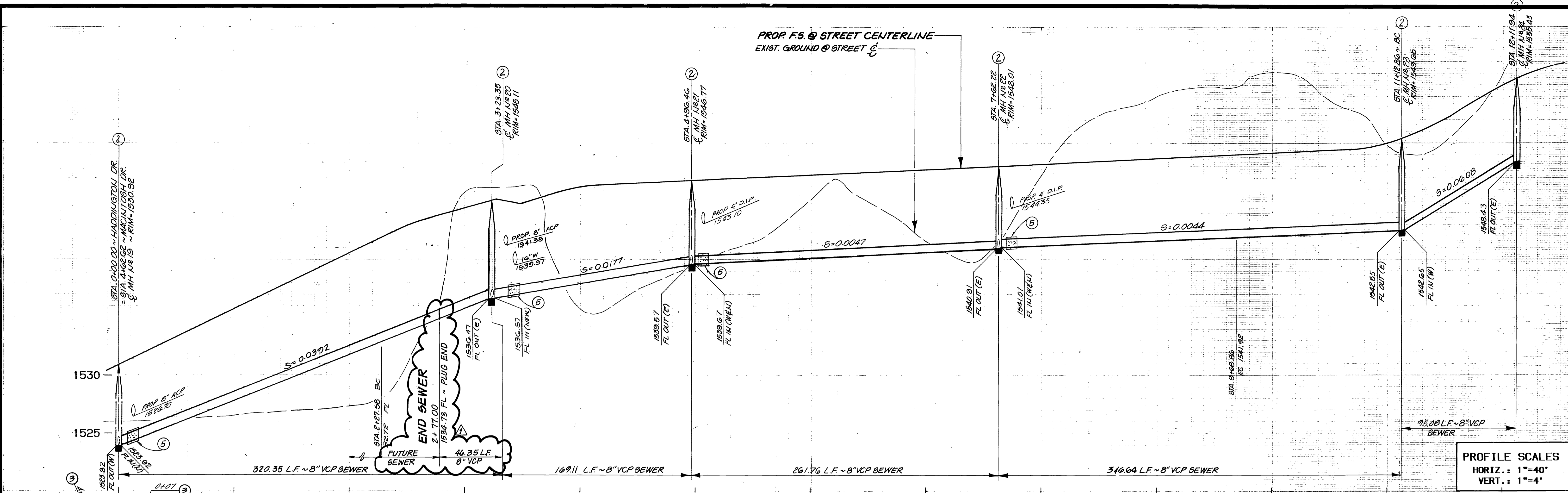
CITY OF RIVERSIDE
 WATER SYSTEM
 APPROVED BY:
 Richard J. Deibel 12-14-87
 DATE

CITY OF RIVERSIDE
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature] DATE: 3/4/00
 PUBLIC WORKS DIRECTOR

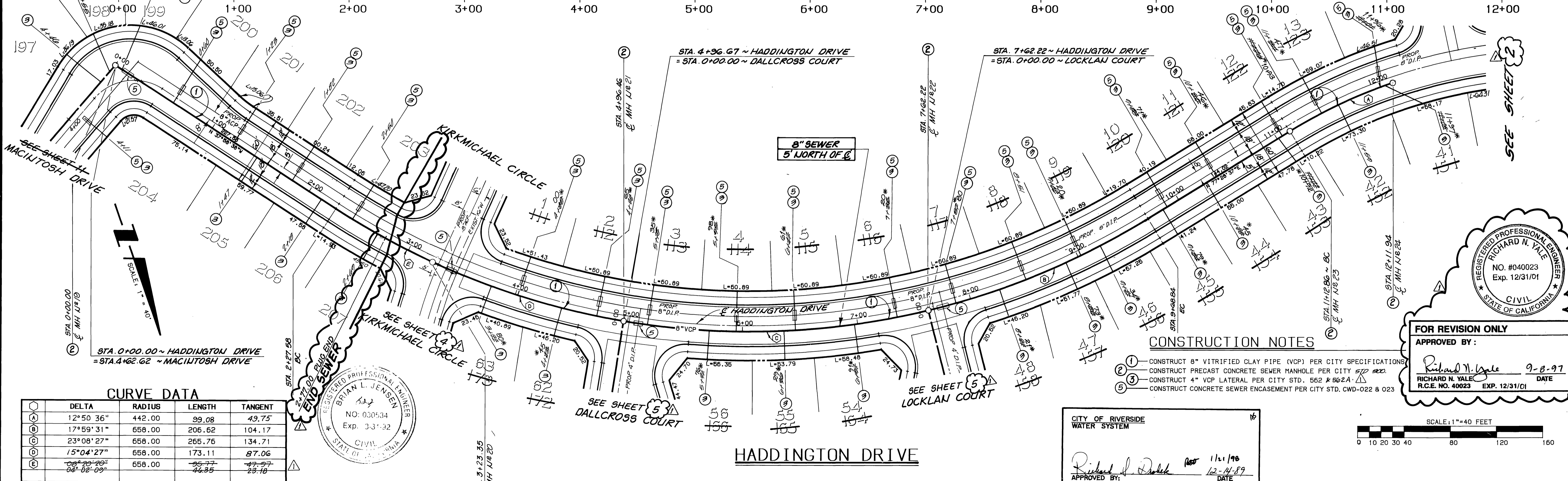
SEWER IMPROVEMENT PLANS
 TRACT 224067
 HADDINGTON DRIVE
 HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4'

ACCOUNT NO.
 5-1560
 SHEET 2 OF 5

PROP. F.S. @ STREET CENTERLINE
EXIST. GROUND @ STREET C



PROFILE SCALES
HORIZ.: 1"=40'
VERT.: 1"=4'



CURVE DATA

DELTA	RADIUS	LENGTH	TANGENT
12°50'36"	442.00	99.08	49.75
17°59'31"	658.00	206.62	104.17
23°08'27"	658.00	265.76	134.71
15°04'27"	658.00	173.11	87.06
08°20'29"	658.00	95.77	47.97
04°02'09"	658.00	46.35	23.18

REGISTERED PROFESSIONAL ENGINEER
BRIAN L. JENSEN
NO: 030534
Exp: 3-3-92
CIVIL
STATE OF CALIFORNIA

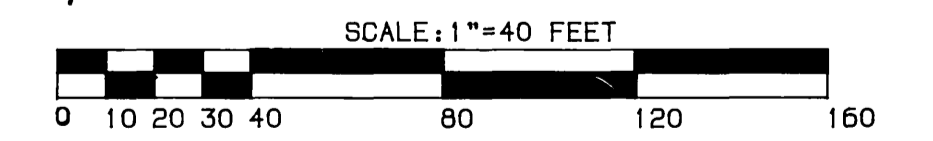
CONSTRUCTION NOTES

- 1 CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
- 2 CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD. 572-222
- 3 CONSTRUCT 4" VCP LATERAL PER CITY STD. 562 & 562A
- 5 CONSTRUCT CONCRETE SEWER ENCASMENT PER CITY STD. CWD-022 & 023

REGISTERED PROFESSIONAL ENGINEER
RICHARD N. VALE
NO. #040023
Exp. 12/31/01
CIVIL
STATE OF CALIFORNIA

FOR REVISION ONLY
APPROVED BY:
Richard N. Vale 9-8-97
RICHARD N. VALE DATE
R.C.E. NO. 40023 EXP. 12/31/01

CITY OF RIVERSIDE
WATER SYSTEM
APPROVED BY: Richard J. Doherty 11/1/98
DATE: 12-14-89



BENCHMARK:
3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHWEST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT, 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED 01144 1961 ELEVATION 1451.867 BRASS DISK IS BROKEN OFF F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK

UNDERGROUND SERVICE ALERT
1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

THE KEITH COMPANIES
6295 RIVER CREST DRIVE
SUITE K
RIVERSIDE, CA 92507
(714) 653-0234

APPROVED BY: Brian L. Jensen
BRIAN L. JENSEN, REG. CIVIL ENGINEER NO. 30534

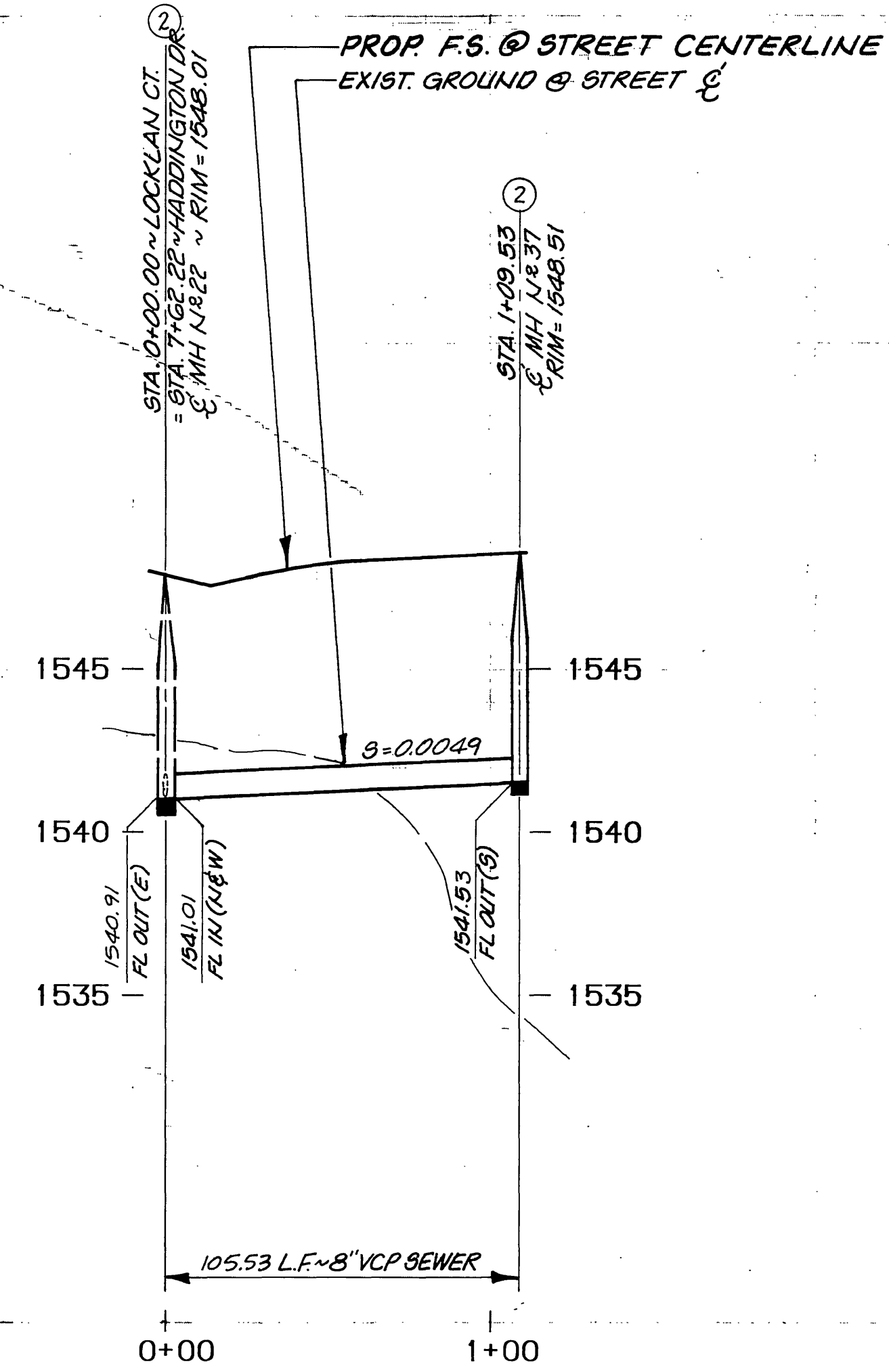
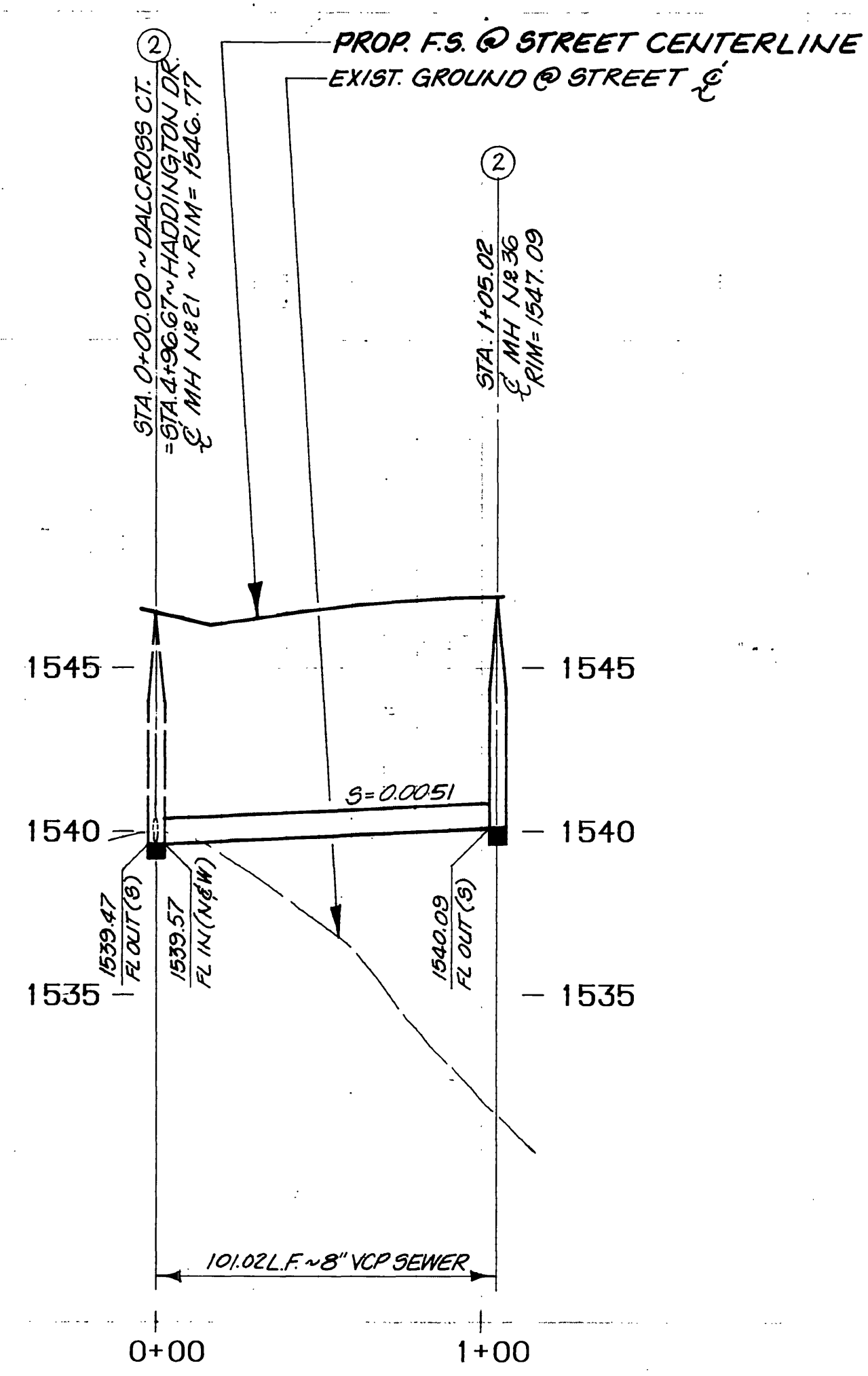
MARK	REVISIONS	DATE
Δ	REVISED PER TRACT MAP PHASING	1-22-98
	DESIGNED BY: SK	
	DRAWN BY: JLL	
	CHECKED BY: BB	

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
APPROVED BY: Barry Ben
DATE: 3/6/90

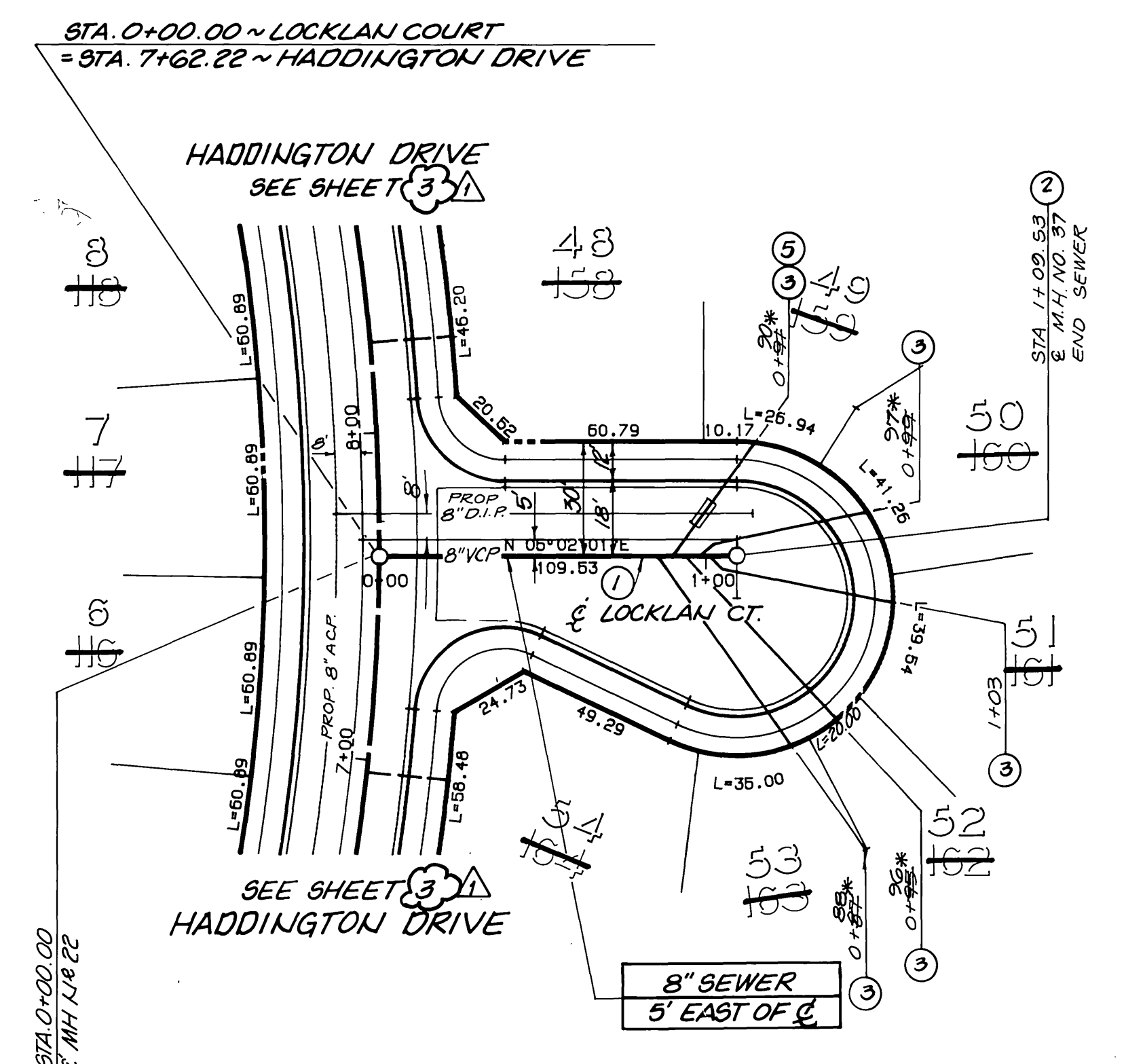
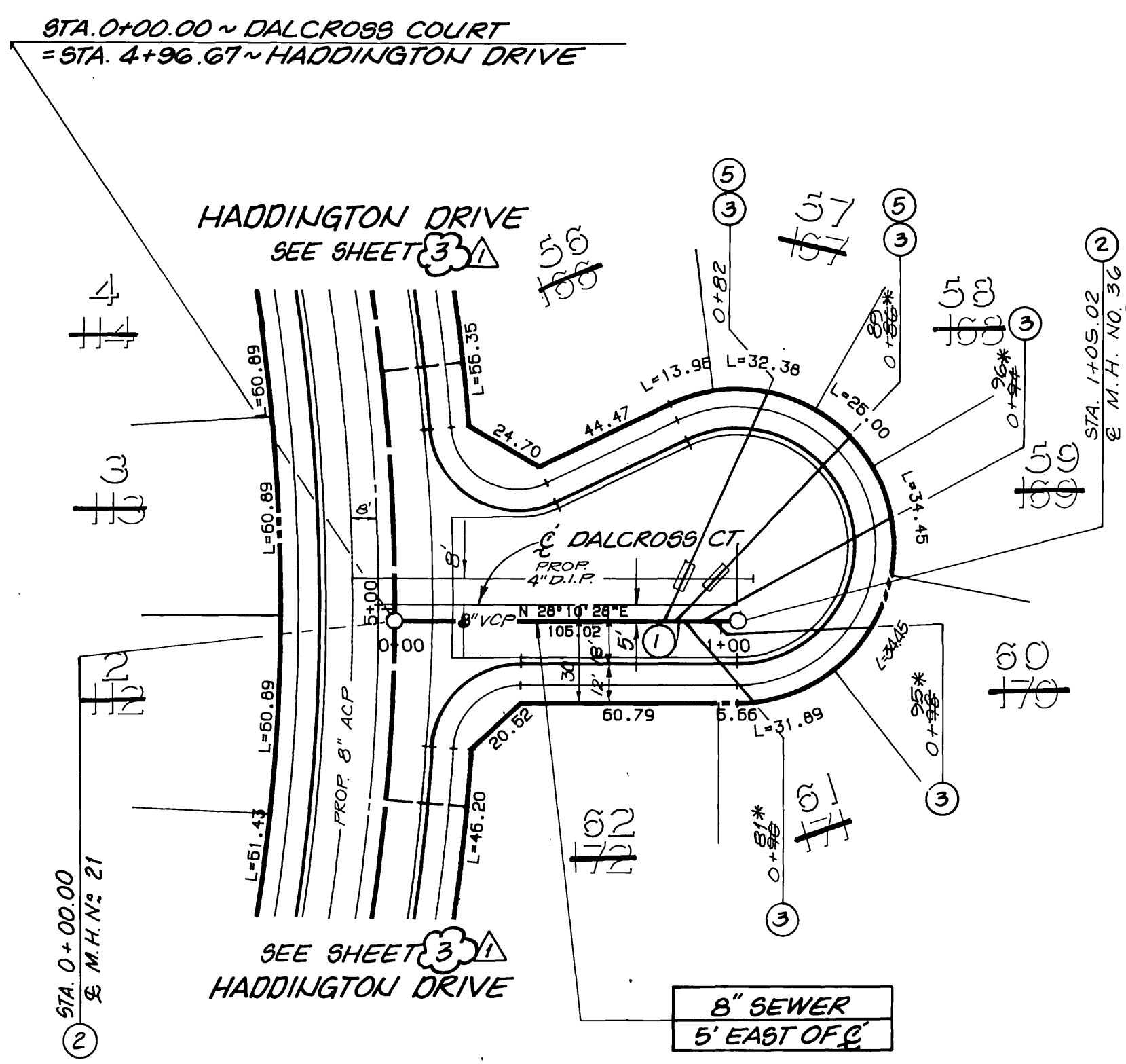
SEWER IMPROVEMENT PLANS
TRACT 22408
HADDINGTON DRIVE

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

ACCOUNT NO.
S-1500
SHEET 3 OF 5



PROFILE SCALES
 HORIZ.: 1"=40'
 VERT.: 1"=4'



REGISTERED PROFESSIONAL ENGINEER
 RICHARD N. YALE
 NO. #040023
 Exp. 12/31/01
 CIVIL
 STATE OF CALIFORNIA

FOR REVISION ONLY
 APPROVED BY:
 Richard N. Yale 9-8-97
 RICHARD N. YALE DATE
 R.C.E. NO. 40023 EXP. 12/31/01

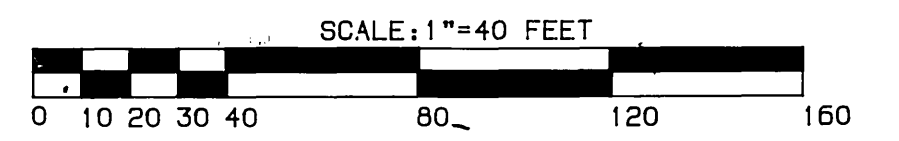
- CONSTRUCTION NOTES
- 1- CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
 - 2- CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD 500
 - 3- CONSTRUCT 4" VCP LATERAL PER CITY STD. 562 & 502A
 - 5- CONSTRUCT CONCRETE SEWER ENCASEMENT PER CITY STD. CWD-022 & 023

CITY OF RIVERSIDE
 WATER SYSTEM

APPROVED BY: *Richard N. Yale* 12-14-89
 DATE

DALCROSS COURT

LOCKLAN COURT



BENCHMARK:
 3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHEAST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT, 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.887 BRASS DISK IS BROKEN OFF F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK

UNDERGROUND SERVICE ALERT
 1-800-227-2600
 CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
 BRIAN L. JENSEN
 NO. 000004
 Exp. 12/31/01
 CIVIL
 STATE OF CALIFORNIA

THE KEITH COMPANIES
 6296 RIVER CREST DRIVE
 SUITE K
 RIVERSIDE, CA 92507
 (714) 653-0234

APPROVED BY: *Brian L. Jensen*
 BRIAN L. JENSEN REG. CIVIL ENGINEER NO. 30634 DATE

MARK	REVISIONS	APPR.	DATE
Δ	REVISED PER TRACT MAP PHASING	R.N.Y.	12-8-97

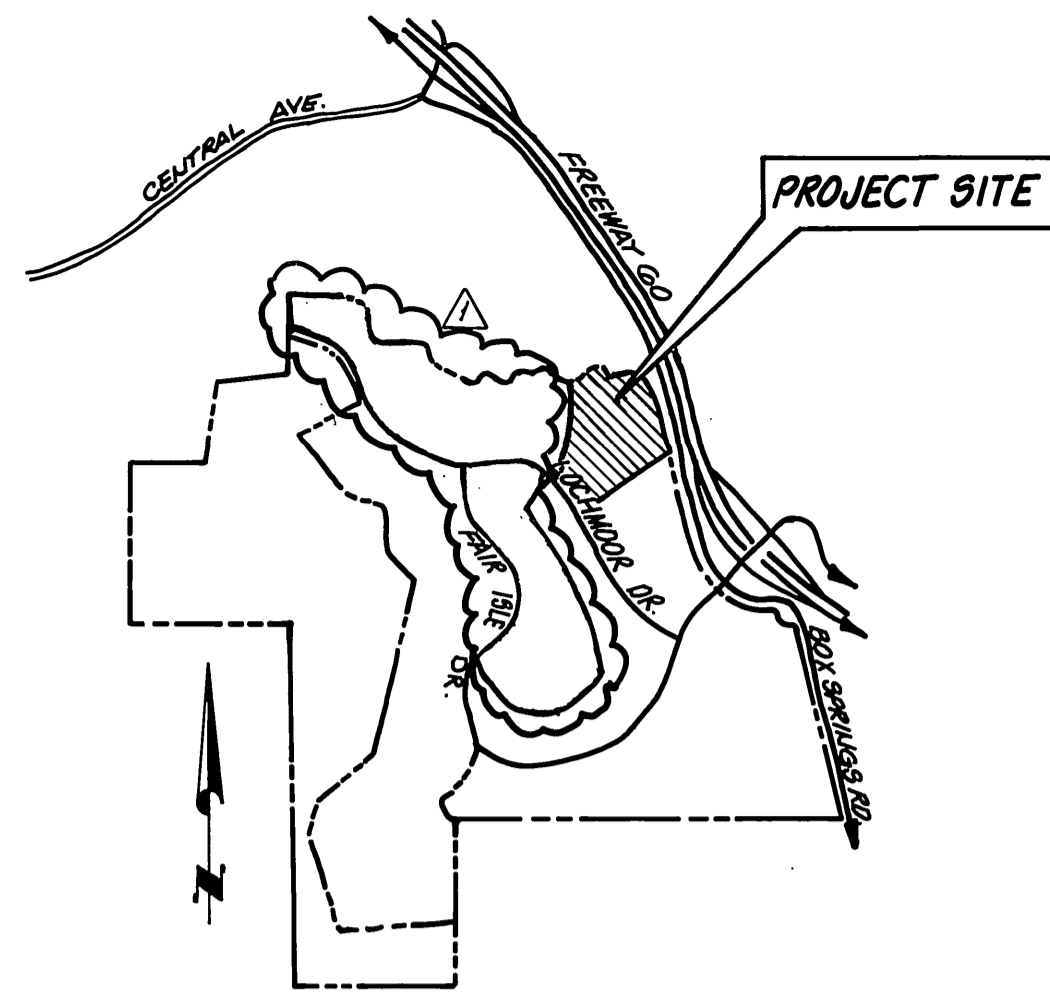
CITY OF RIVERSIDE
 PUBLIC WORKS DEPARTMENT

APPROVED BY: *Barry Ben*
 PUBLIC WORKS DIRECTOR
 DATE: 3/6/90

SEWER IMPROVEMENT PLANS
 TRACT 22408
 DALCROSS CT/LOCKLAN CT

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

ACCOUNT NO. 5-1500
 SHEET 5 OF 5

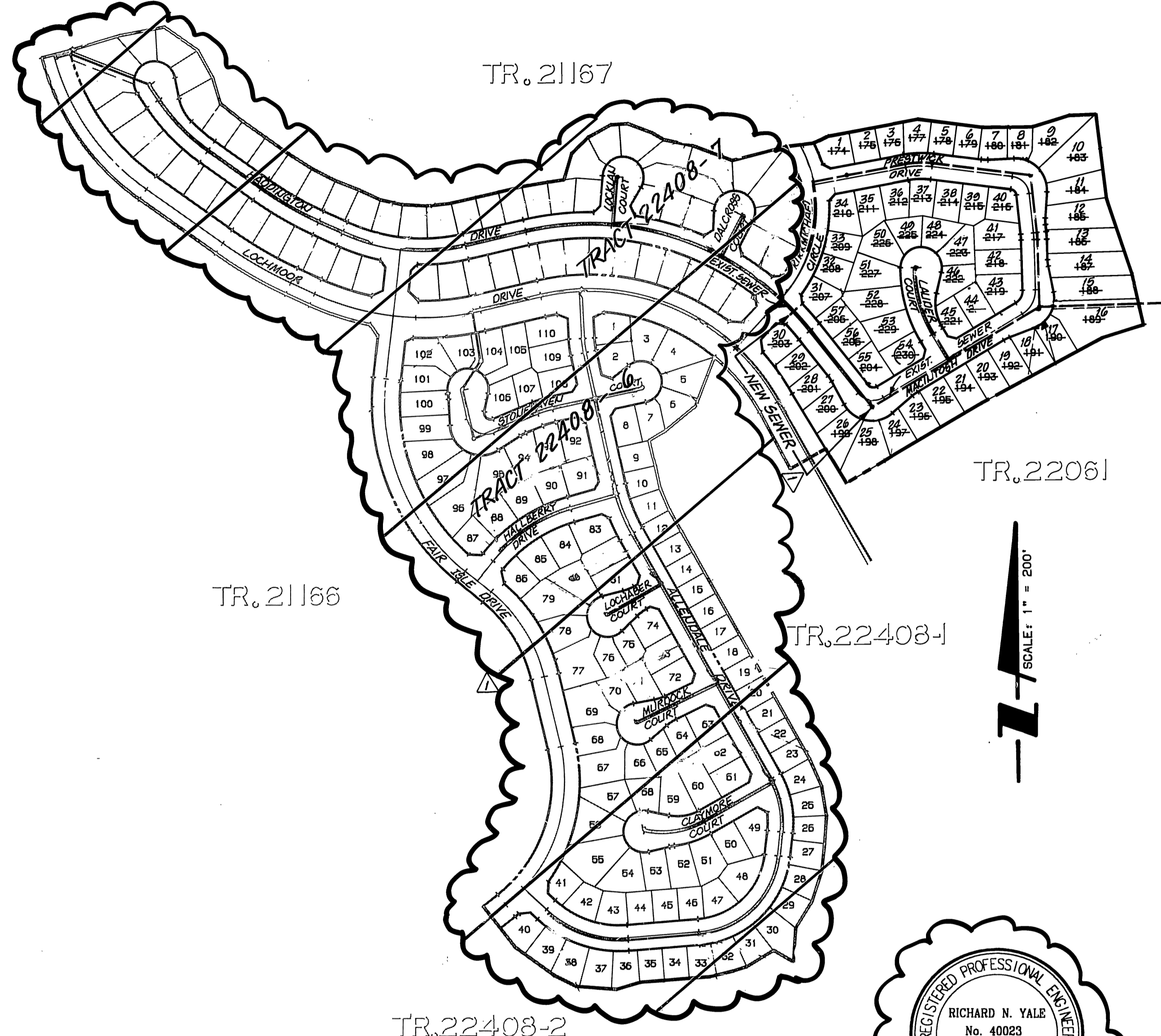


VICINITY MAP
NOT TO SCALE

SYCAMORE HIGHLANDS

SEWER IMPROVEMENT PLANS

TRACT 22408
IN THE CITY OF RIVERSIDE



INDEX MAP
SCALE: 1" = 200'

GENERAL NOTES

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- ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
- 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.

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.

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CONSTRUCTION NOTES

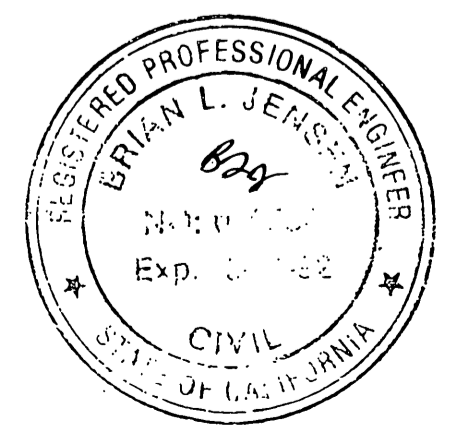
- CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
- CONSTRUCT 4" VCP LATERAL PER CITY STD. 562 & 562A
- CONSTRUCT CONCRETE SEWER ENCASEMENT PER CITY STD. CWD-022 & 023

REGISTERED PROFESSIONAL ENGINEER
RICHARD N. YALE
No. 40023
Civil
Exp. 12/31/01
STATE OF CALIFORNIA

FOR REVISION ONLY
APPROVED BY:
Richard N. Yale 3-23-99
RICHARD N. YALE DATE
R.C.E. NO. 40023 EXP. 12/31/01

SEWER QUANTITY ESTIMATE

NO.	DESCRIPTION	QUANTITY	UNIT
1	8" VCP SEWER	871.2	L.F.
2	MANHOLES PER CITY STD. NO. 500	44	EA
3	4" LATERAL PER CITY STD. NO. 562 & 562A	8,308.254	L.F.
4	W/ CLEANOUT PER STD. DWG. NO. 962A, 7 CLEANOUTS	7	EA
5	CONCRETE SEWER ENCASEMENT PER CITY STD. CWD-022 & 023	463.50	L.F.



THE KEITH COMPANIES
6296 RIVER CREST DRIVE
SUITE K
RIVERSIDE, CA 92507
(714) 653-0234

APPROVED BY: *Brian L. Jensen*
BRIAN L. JENSEN REG. CIVIL ENGINEER NO. 30534 DATE

CITY OF RIVERSIDE WATER SYSTEM

Rickard L. Doble 4/27/99
Rickard L. Doble 12-14-89
APPROVED BY: DATE

CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT

APPROVED BY: *Brian L. Jensen* DATE: 3/6/99
PRINCIPAL ENGINEER
DATE: 3/6/99
DESIGNED BY: BK DRAWN BY: LUL CHECKED BY: BB

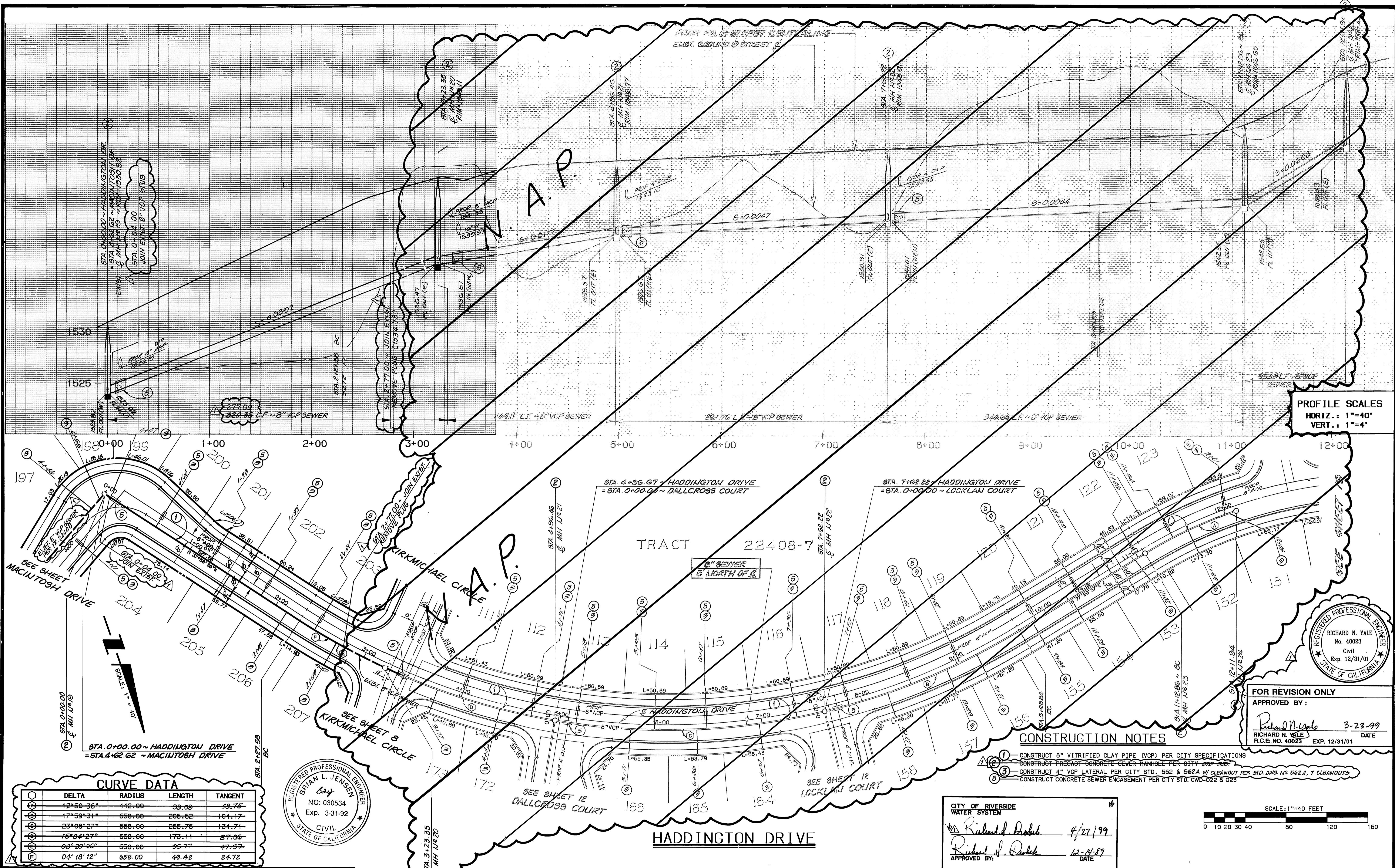
SEWER IMPROVEMENT PLANS

TRACT 22408
TITLE SHEET
HORIZ. SCALE: 1" = AS SHOWN VERT. SCALE: 1" = AS SHOWN

ACCOUNT NO. 5-1500
SHEET 1 OF 13

BENCHMARK:
3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHEAST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1961 ELEVATION 1461.887 (BRASS DISK IS BROKEN OFF - F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK)

UNDERGROUND SERVICE ALERT
1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG



PROFILE SCALES
 HORIZ.: 1"=40'
 VERT.: 1"=4'

REGISTERED PROFESSIONAL ENGINEER
 RICHARD N. YALE
 No. 40023
 Civil
 Exp. 12/31/01
 STATE OF CALIFORNIA

FOR REVISION ONLY
 APPROVED BY:
 Richard N. Yale 3-23-99
 RICHARD N. YALE
 R.C.E. NO. 40023 EXP. 12/31/01 DATE

CONSTRUCTION NOTES

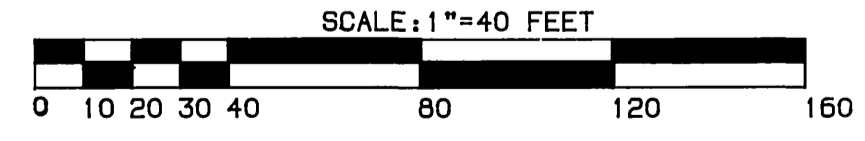
- CONSTRUCT 8" VITRIFIED CLAY PIPE (VCP) PER CITY SPECIFICATIONS
- CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY STD. 562
- CONSTRUCT 4" VCP LATERAL PER CITY STD. 562 & 562A W/ CLEANOUT PER STD. DWG. NO. 562A, 7 CLEANOUTS
- CONSTRUCT CONCRETE SEWER ENCASEMENT PER CITY STD. CWD-022 & 023

CURVE DATA

DELTA	RADIUS	LENGTH	TANGENT
12°50'36"	442.00	99.08	49.75
17°59'31"	558.00	206.62	104.17
23°00'27"	558.00	265.75	134.71
15°04'27"	558.00	173.11	87.06
08°29'20"	558.00	96.77	47.97
04°18'12"	658.00	49.42	24.72

REGISTERED PROFESSIONAL ENGINEER
 BRIAN L. JENSEN
 NO. 030534
 Exp. 3-31-92
 CIVIL
 STATE OF CALIFORNIA

CITY OF RIVERSIDE
 WATER SYSTEM
 Richard N. Yale 4/27/99
 Richard N. Yale 12-14-89
 APPROVED BY: DATE



BENCHMARK:
 3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHWEST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT, 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACK. BRASS DISK STAMPED D1144 1951 ELEVATION 1451.687 BRASS DISK IS BROKEN OFF F.D. ORIGINAL SHANK OF B.D. WITH P.K. NAIL DRIVEN ALONG SIDE SHANK

UNDERGROUND SERVICE ALERT
 1-800-227-2600
 CALL TWO WORKING DAYS BEFORE YOU DIG

THE KEITH COMPANIES
 6296 RIVER CREST DRIVE
 SUITE K
 RIVERSIDE, CA 92507
 (714) 653-0234

APPROVED BY: Brian L. Jensen REG CIVIL ENGINEER NO. 30534 DATE

REVISIONS	DATE	BY
REVISED PER TRACT MAP PHASING	1/14/99	WJL

CITY OF RIVERSIDE
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: DATE BY
 Richard N. Yale 3/6/20
 PUBLIC WORKS DIRECTOR

SEWER IMPROVEMENT PLANS
 TRACT 22408
 HADDINGTON DRIVE
 HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4'

ACCOUNT NO.
 5-1500
 SHEET 17 OF 13