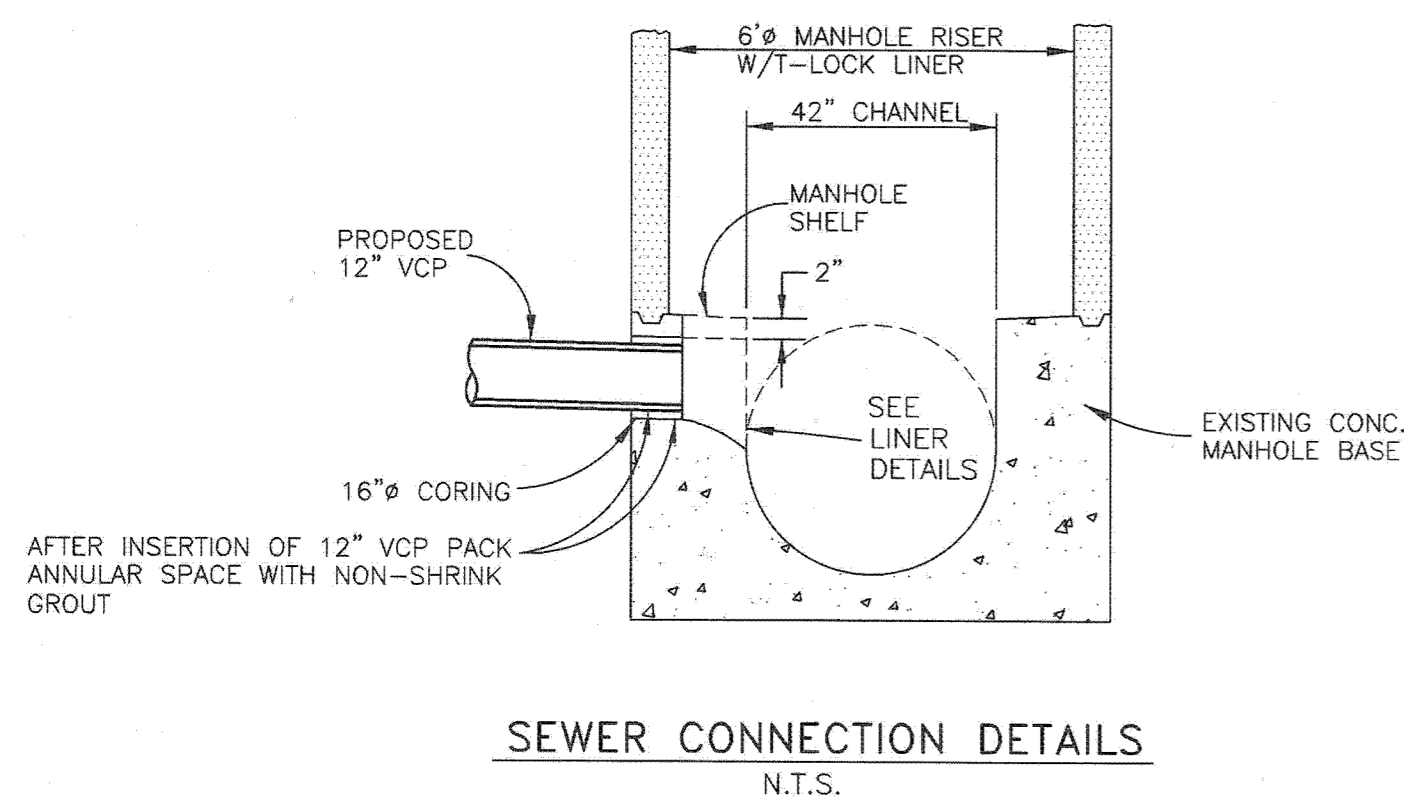
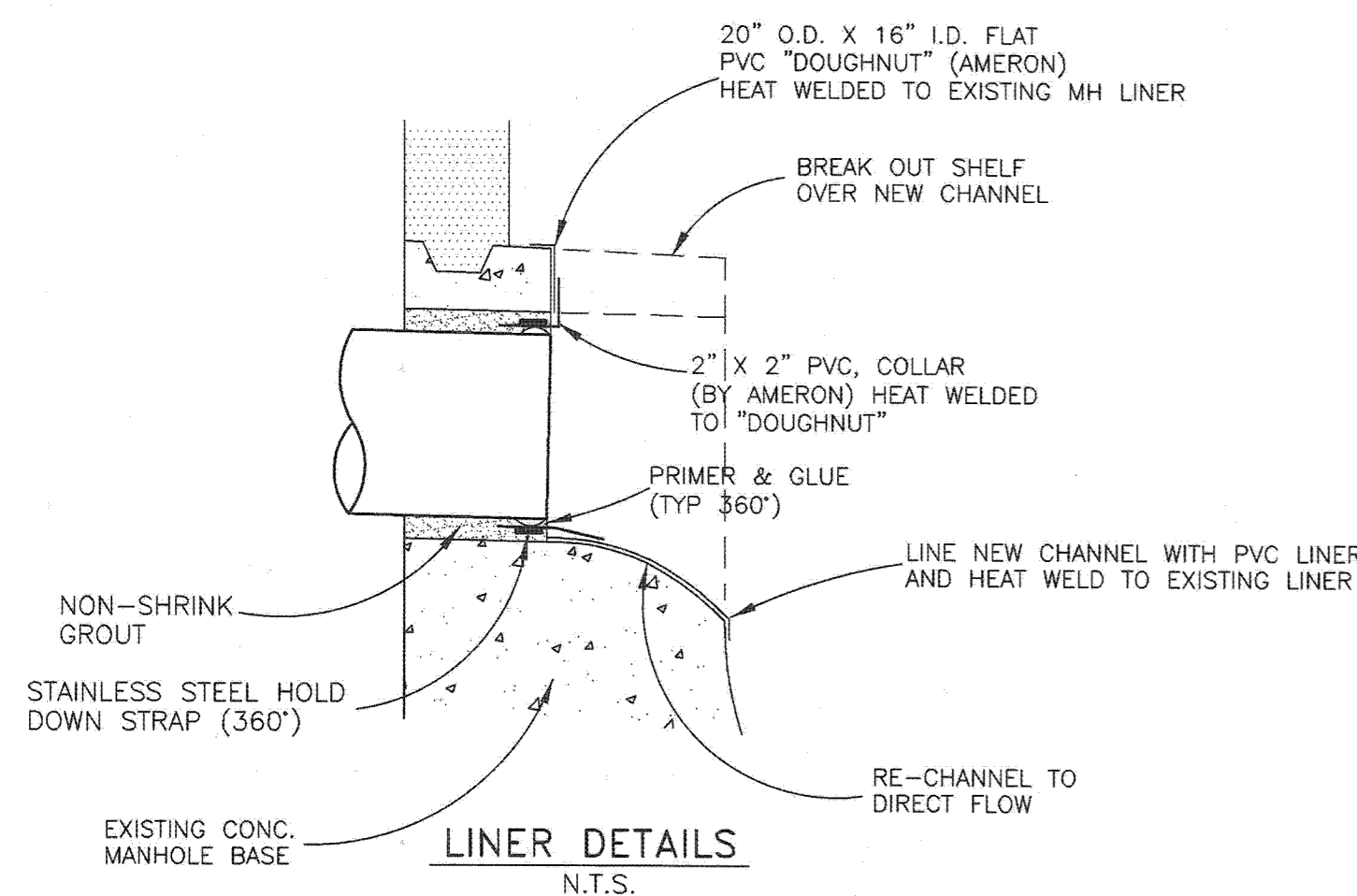
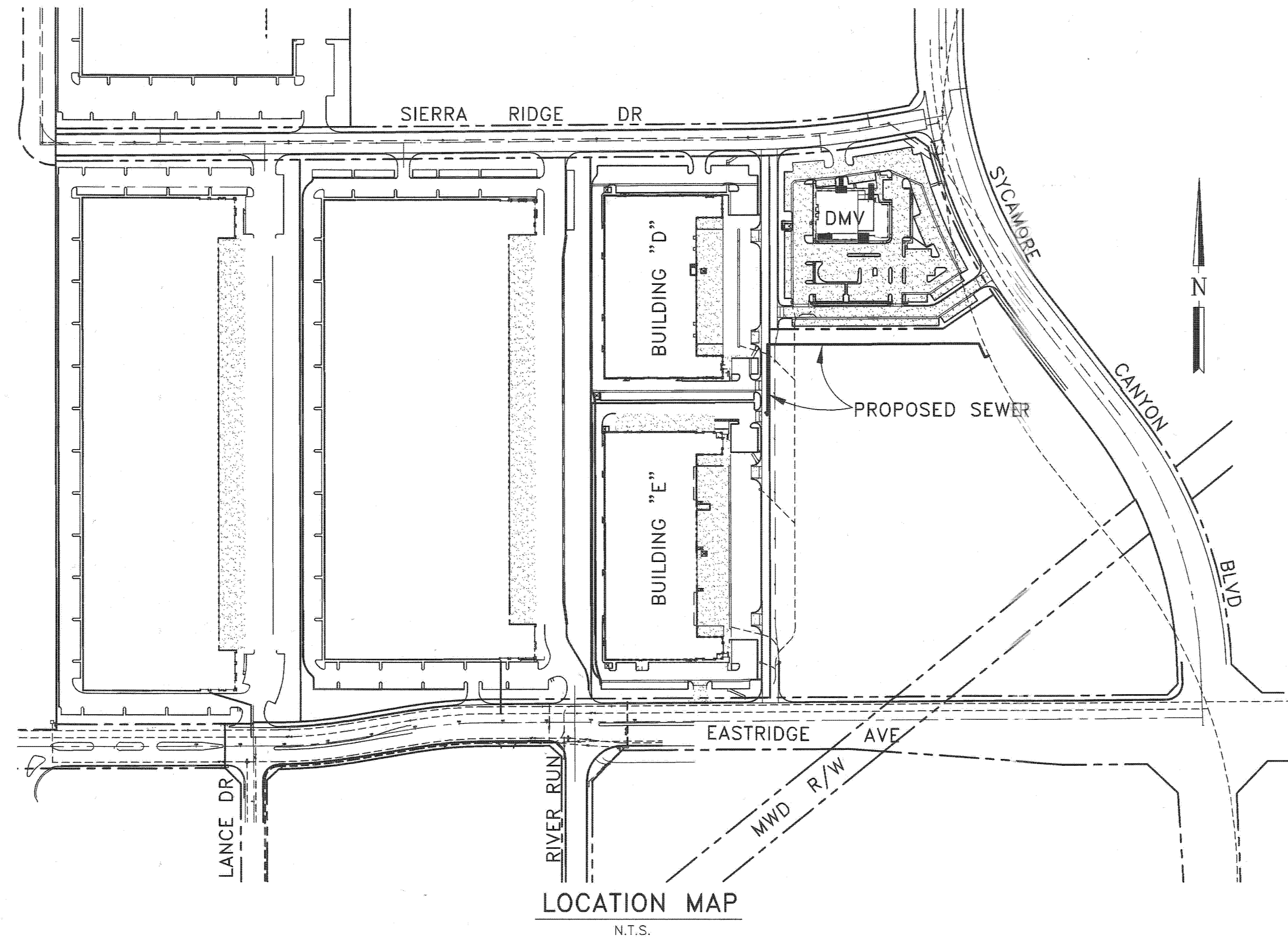
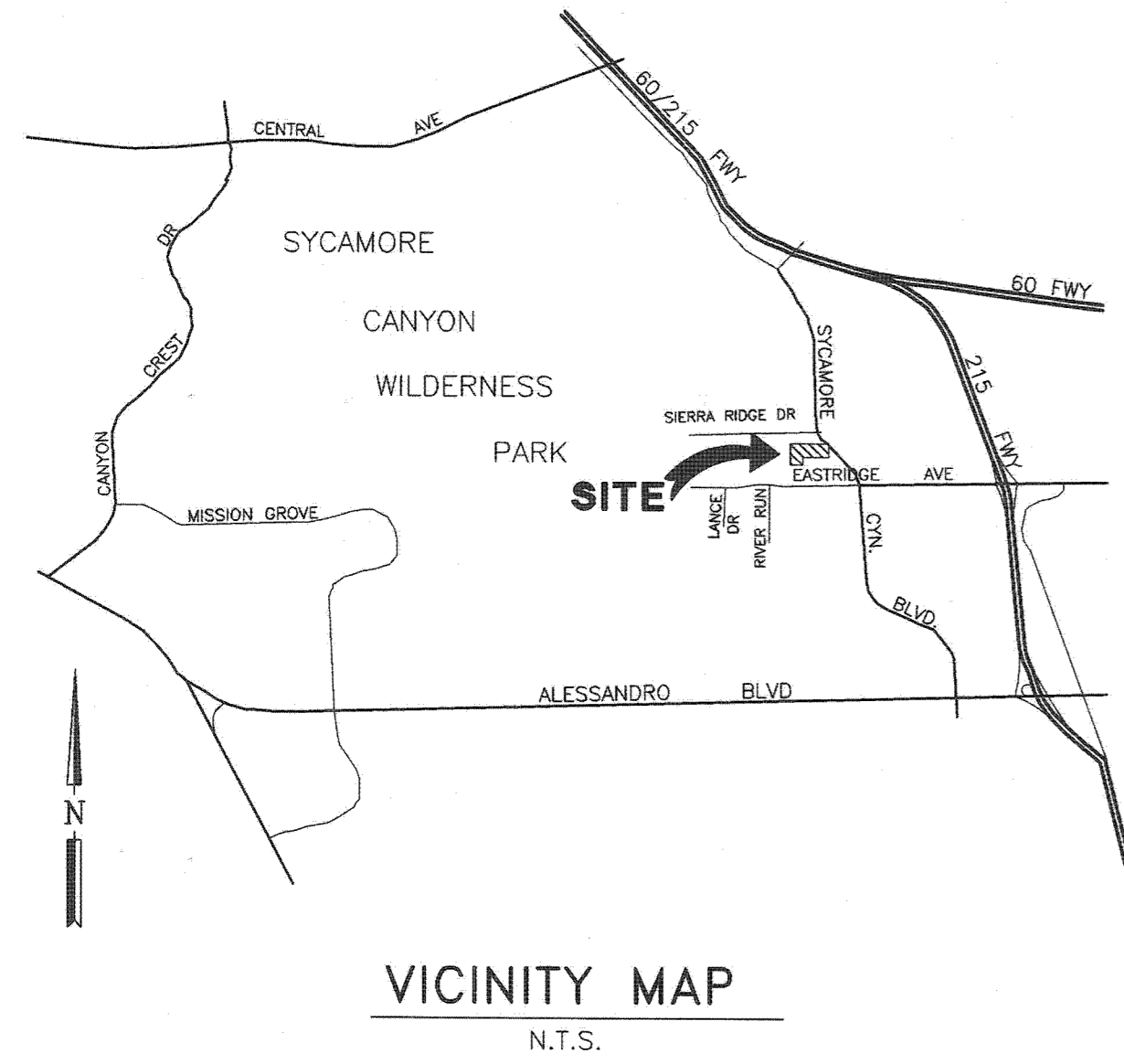


SEWER IMPROVEMENT PLAN

BUILDING "E"

PARCEL MAP 33246



SEWER CONNECTION NOTES

CORE 16" Ø HOLE IN MANHOLE BASE, WITH 2" CLEAR BETWEEN THE TOP OF THE MANHOLE SHELF AND THE TOP OF THE CORE HOLE.

CLEAN & BUFF THE EXISTING MANHOLE LINER AROUND THE CORE HOLE AND NEW CHANNEL. HEAT WELD A 20" Ø.D. X 16" I.D. FLAT PVC "DOUGHNUT" TO EXISTING WALL. ADD NEW LINING TO THE CHANNEL AND HEAT WELD TO THE EXISTING MANHOLE LINING.

A 2"x2" PVC COLLAR SHALL BE ATTACHED TO THE 12" VCP WITH PRIMER AND GLUE, THEN REINFORCED WITH A STAINLESS STEEL HOLD DOWN STRAP.

ONCE THE 12" VCP IS IN PLACE THE 2"x2" PVC COLLAR SHALL BE HEAT WELDED TO THE "DOUGHNUT" AND THE ANNULAR SPACE BETWEEN THE VCP AND THE CORE HOLE SHALL BE PACKED WITH NON-SHRINK GROUT.

DURING CONSTRUCTION ALL SAFETY MEASURES SHALL BE IN PLACE TO PROTECT THE WORKERS IN THE MANHOLE.

GENERAL NOTES

- NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-OF-WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITH OUT A VALID CONSTRUCTION PERMIT OR, A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT-OF-WAY IN ACCORDANCE WITH THE SPECIAL PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
- 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 IS NOT RESPONSIBLE FOR THEIR ACCURACY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING OR REESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
- ALL FLAGGED ELEVATIONS IN THE PLAN VIEW SHALL BE STAKED IN THE FIELD.
- THE CONTRACTOR SHALL CALL IN AN LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE # 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 USA.
- CONTRACTOR IS TO VERIFY EXISTING SEWER ELEVATIONS PRIOR TO CONSTRUCTION.
- LOCATIONS 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 6" ABOVE THE UPPER MANHOLE RIM ELEVATION OF THE SEWER LINE SEGMENT BEING CONNECTED TO, WITH OUT 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.

ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF 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 ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS.

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

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

CONSTRUCTION NOTES

- | CONSTRUCTION NOTES | QUANTITIES |
|--|------------|
| 1. INSTALL 10" VCP SEWER LINE, BEDDING PER CITY STD. DWG 452 (CASE I) | 670 LF |
| 2. INSTALL MANHOLE PER CITY OF RIVERSIDE STD. DWG. 500 (DIA. PER PLAN) | 4 EA |
| 3. INSTALL 5' DIA MANHOLE PER CITY OF RIVERSIDE STD. DWG. 500 WITH T-LOCK PVC LINER OR APPROVED EQUAL, PER MANUFACTURER'S SPECIFICATIONS | 1 EA |
| 4. INSTALL CLEANOUT PER CITY OF RIVERSIDE STD. DWG. 560 | 1 EA |
| 5. INSTALL SEWER LATERAL WYE PER CITY OF RIVERSIDE STD. DWG. 500 | 1 EA |
| 6. INSTALL 12" VCP SEWER LINE, BEDDING PER CITY STD. DWG 452 (CASE I) | 10 LF |

INDEX OF SHEETS

SHEET 1 TITLE SHEET
SHEET 2 PLAN & PROFILE



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

SHEET 1 THROUGH 2

DATE: 8.07.07

BENCH MARK: CITY OF RIVERSIDE B.M. L1-C3

P.K. NAIL AND CITY ENGINEER TAG IN THE NORTHERLY CORNER OF A CATCH BASIN IN THE MEDIAN CURB OF SYCAMORE CANYON BLVD, 95 FEET SOUTHEASTERLY OF FAIR ISLE DRIVE.

ELEV. = 1510.379



PREPARED BY:
GFB-FRIEDRICH & ASSOC., INC.
CONSULTING CIVIL ENGINEERS
6529 RIVERSIDE AVENUE, STE. 230
RIVERSIDE, CA 92506
(951) 781-3811, (951) 781-6700
DATE: 8-07-07

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: GRW DRAWN BY: GRW CHECKED BY: JAF

CITY OF RIVERSIDE
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: [Signature]
PRINCIPAL ENGR.

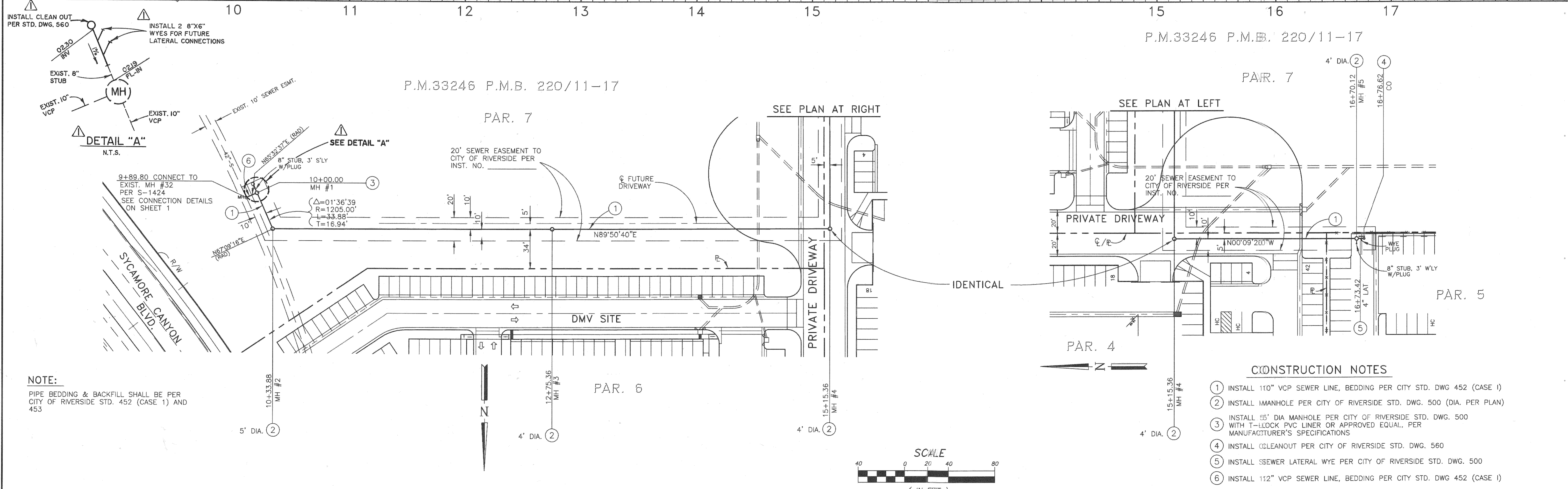
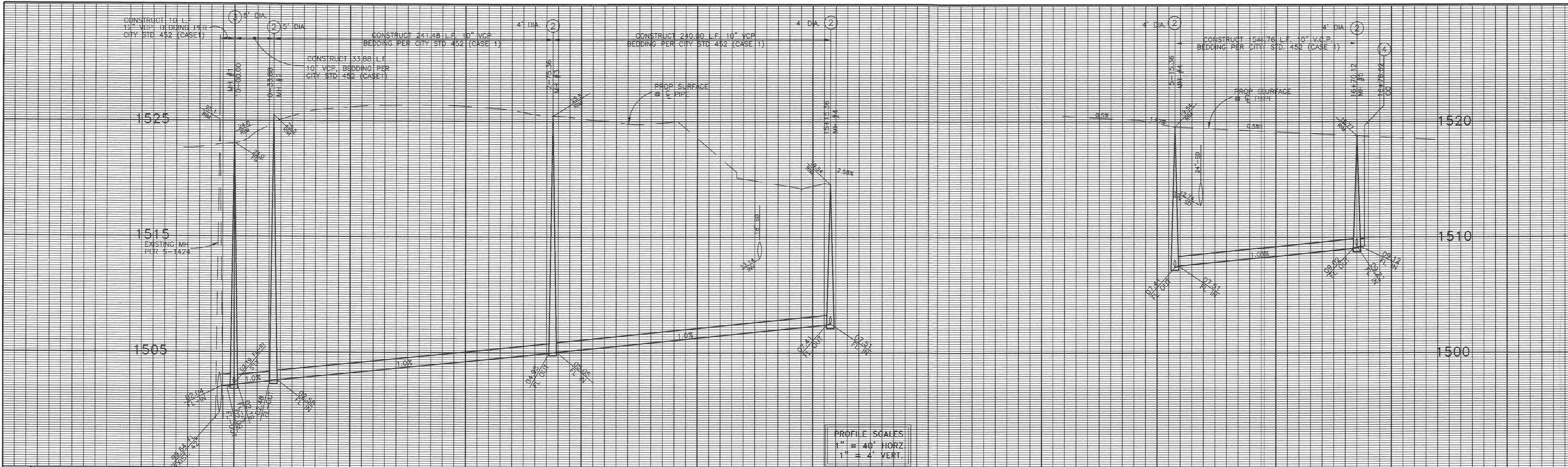
APPROVED BY: [Signature]
CITY ENGINEER

DATE: 8/10/07

SEWER PLAN
PARCEL MAP 33246
TITLE SHEET
BUILDING "E"
STA. 7+61.15 TO 14+62.41

SCALE: N.T.S.

PW07-0561
PROJECT NO.
S-2038
SHEET 1 OF 2
FILE NO.: S2038-1



- CONSTRUCTION NOTES**
- 1 INSTALL 110" VCP SEWER LINE, BEDDING PER CITY STD. DWG 452 (CASE 1)
 - 2 INSTALL MANHOLE PER CITY OF RIVERSIDE STD. DWG. 500 (DIA. PER PLAN)
 - 3 INSTALL 55" DIA MANHOLE PER CITY OF RIVERSIDE STD. DWG. 500 WITH T-LOCK PVC LINER OR APPROVED EQUAL, PER MANUFACTURER'S SPECIFICATIONS
 - 4 INSTALL CLEANOUT PER CITY OF RIVERSIDE STD. DWG. 560
 - 5 INSTALL SEWER LATERAL WYE PER CITY OF RIVERSIDE STD. DWG. 500
 - 6 INSTALL 112" VCP SEWER LINE, BEDDING PER CITY STD. DWG 452 (CASE 1)

<p>Underground Service Alert Call: TOLL FREE 1-800-227-2600 TWO WORKING DAYS BEFORE YOU DIG</p>	<p>REVIEWED BY: WESTERN MUNICIPAL WATER DISTRICT for Non-Interference Compliance</p> <p>SHEET 1 THROUGH 2</p> <p>DATE: 8.07.07</p>	<p>BENCH MARK: CITY OF RIVERSIDE B.M. L1-C3</p> <p>P.K. NAIL AND CITY ENGINEER TAG IN THE NORTHERLY CORNER OF A CATCH BASIN IN THE MEDIAN CURB OF SYCAMORE CANYON BLVD, 95 FEET SOUTHEASTERLY OF FAIR ISLE DRIVE.</p> <p>ELEV. = 1510.379</p>	<p>PREPARED BY: GFB-FRIEDRICH & ASSOC., INC. CONSULTING CIVIL ENGINEERS 6529 RIVERSIDE AVENUE, STE. 230 RIVERSIDE, CA 92506 951-781-2881 gfb_jaf@pccbell.net</p> <p>DATE: 8-07-07</p>	<p>CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS</p> <p>APPROVED BY: [Signature] PRINCIPAL ENGR.</p> <p>APPROVED BY: [Signature] CITY ENGINEER</p> <p>DATE: 8/10/07</p>	<p>SEWER PLAN PARCEL MAP 33246 BUILDING "E" STA. 7+61.15 TO 14+62.41</p> <p>SCALE: HORIZ: 1"=40' VERT: 1"=4'</p>	<p>PW07-0561</p> <p>PROJECT NO.</p> <p>S-2038</p> <p>SHEET 2 OF 2</p> <p>FILE NO.:</p>
	<p>CITY OF RIVERSIDE BUSINESS TAX CERTIFICATE No.60137 EXP. DATE 5-2-08</p>			<p>DESIGNED BY: GRW DRAWN BY: GRW CHECKED BY: JAF</p>	<p>INDEXED 9-09-08 Ljt</p>	