

# CITY OF RIVERSIDE RIVERSIDE COMMUNITY COLLEGE DISTRICT CITY OF RIVERSIDE CAMPUS SEWER LINE RELOCATION

**GENERAL NOTES:**

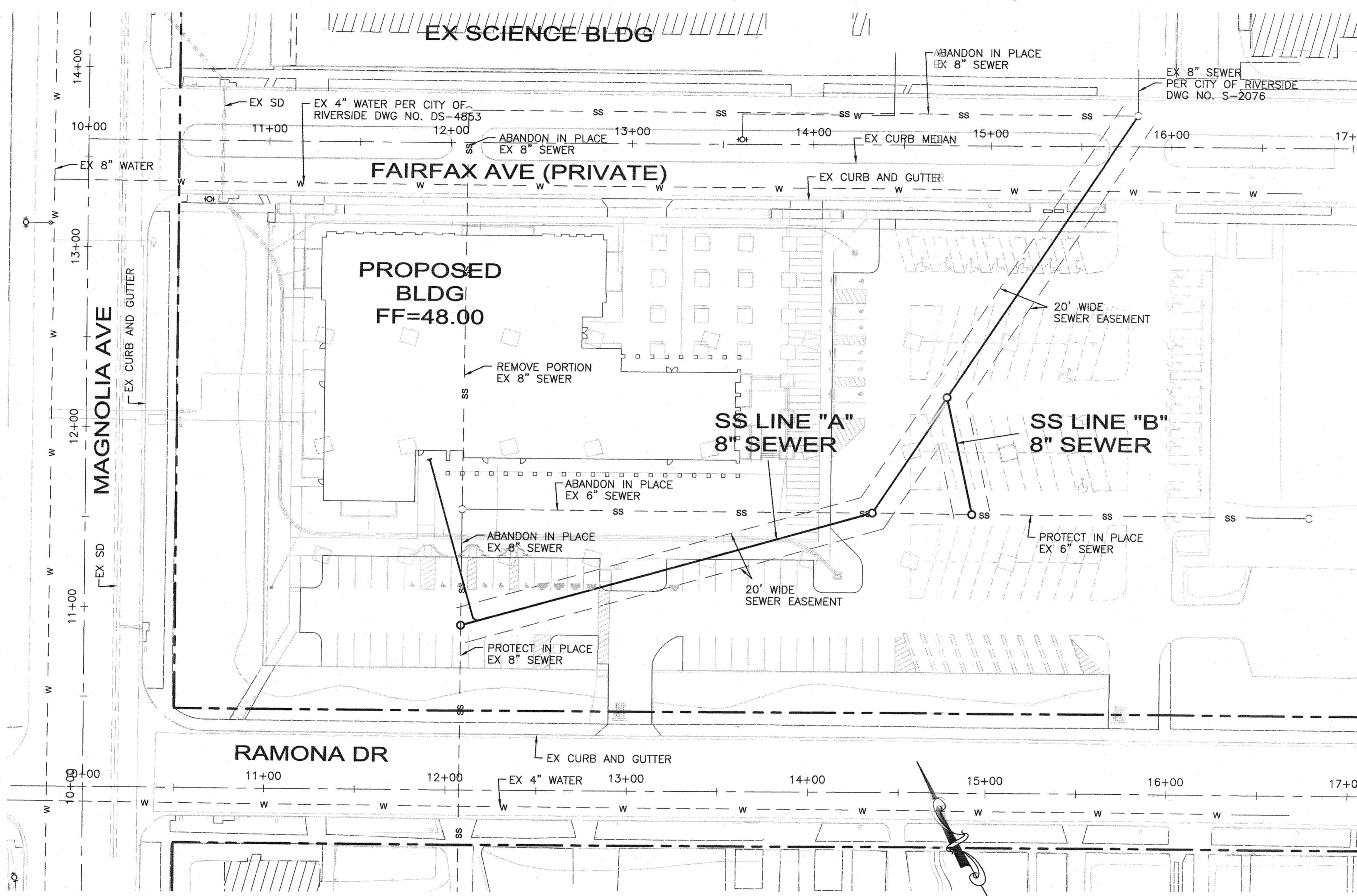
1. NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-OF-WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT OR A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.
2. IT SHALL BE THE RESPONSIBILITY 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.
3. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
4. 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.
5. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
6. 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.
7. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
8. WHERE NEW PAVEMENT IS TO JOIN THE EXISTING PAVEMENT, THE EDGE OF THE EXISTING PAVEMENT SHALL BE TRIMMED IN A SMOOTH AND STRAIGHT LINE, CONSTRUCT MATCH-UP PAVING AS SHOWN ON THE PLANS AND OVERLAY PAVING AS DIRECTED IN THE FIELD TO PRODUCE A SMOOTH SECTION.
9. ON ALL AREAS WITHIN PUBLIC RIGHT-OF-WAY WHERE THE FILL IS ONE (1) FOOT OR GREATER, A LETTER WILL BE REQUIRED FROM THE SOILS ENGINEER CERTIFYING THE COMPACTION OF THE FILL BELOW SUBGRADE, PRIOR TO ISSUANCE OF THE CONSTRUCTION PERMIT/CUT SHEETS.
10. THE CONTRACTOR SHALL CALL IN A 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 U.S.A.
11. CONTRACTOR IS TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION.
12. LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE OWNER. AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.
13. NO FINISHED FLOOR ELEVATION SHALL BE LESS THAN 6" ABOVE THE UPPER MANHOLE RIM ELEVATION OF THE SEWER LINE SEGMENT BEING CONNECTED TO, WITHOUT HAVING A PROPER BACKWATER VALVE INSTALLED IN THE LATERAL.
14. 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.
15. THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
16. PIPES JOINTS FOR VITRIFIED CLAY PIPE SHALL BE TYPE "G" AS SPECIFIED IN SECTION 208-2.3 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS PROJECTS. IF PLASTIC PIPE IS ALLOWED AS AN ALTERNATIVE, ALL PIPE JOINTS SHALL BE GASKETED. CEMENTED JOINTS SHALL NOT BE ALLOWED.
17. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR PERFORMING A VIDEO INSPECTION OF ALL NEW SEWER AND STORM DRAIN FACILITIES TO BE PUBLICLY OWNED AND MAINTAINED PRIOR TO FINAL ACCEPTANCE OF THE WORK. THE VIDEO INSPECTION MUST BE PERFORMED IN THE PRESENCE OF THE PUBLIC WORKS INSPECTOR. A RECORDING OF THE VIDEO INSPECTION MUST BE SUBMITTED TO THE CITY FOR REVIEW AND ACCEPTANCE.
18. IN PAVEMENT OVERLAY AREAS, ANY DISTRESSED EXISTING PAVEMENT SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE INSPECTOR PRIOR TO OVERLAYING WITH A.C. PAVING.

**NOTICE TO CONTRACTOR:**

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY LINES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
2. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL POT-HOLE ALL UTILITY CROSSINGS AND CONNECTIONS AND VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES AFFECTED. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BEFORE CONSTRUCTION BEGINS.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL POSITION OF ALL POINTS OF CONNECTION TO EXISTING STRUCTURES. THIS SHALL INCLUDE BOTH ABOVE GROUND AND BELOW GROUND POINTS OF CONNECTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO THE BEGINNING OF CONSTRUCTION.
4. 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.

**BASIS OF BEARINGS:**

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE 6, NAD 83, (2004.00) EPOCH ADJUSTMENT AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) "EWPP" AND "MLFP", BEING NORTH 42°17'53" WEST AS DERIVED FROM COORDINATES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC).



**BENCHMARK:**

**CITY OF RIVERSIDE BENCHMARK 16-H2**  
PK AND NAIL CITY ENGINEER TAG IN THE BACK OF A CATCH BASIN AT THE SOUTHEAST CORNER OF MARKET STREET AND FOURTEENTH STREET (BM TRANSFER FROM 16-G2)  
ELEVATION: 834.48 FT (NGVD 29)

**TEMPORARY BENCH MARK (TBM)**

KCT #8102  
BEING A FOUND 1 1/2" IRON PIPE WITH NAIL, DOWN 0.2', LOCATED AT THE INTERSECTION OF MAGNOLIA AVENUE AND RAMONA DRIVE AS DEPICTED ON THE "RCC RIVERSIDE CAMPUS TOPOGRAPHIC SURVEY" DATED JULY 27, 2012 AS PREPARED BY KCT CONSULTANTS, INC.

ESTABLISHED ELEVATION FROM FOUND CITY OF RIVERSIDE BENCHMARK 16-H2

ELEVATION: 844.38 FT

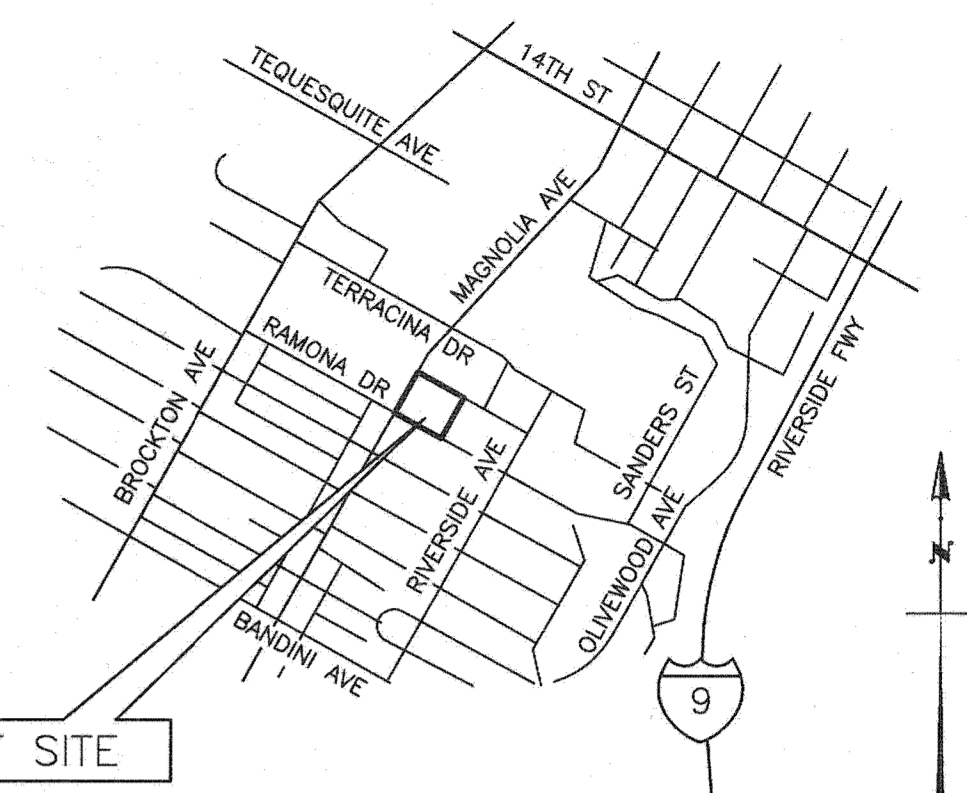
**INDEX MAP**

SCALE: 1" = 40'

**SEWER ABANDONMENT NOTE:**

ALL ABANDONED SEWER LINES TO BE BACKFILLED WITH SAND OR CLSM.  
REMOVE TOPS AND BREAK BOTTOMS OF ALL ABANDONED SEWER MANHOLES.

CITY OF RIVERSIDE - PUBLIC UTILITIES DEPARTMENT  
WATER DIVISION, REVIEWED FOR CONFLICTS ONLY  
APPROVED BY: *[Signature]* DATE: 12/4/2014



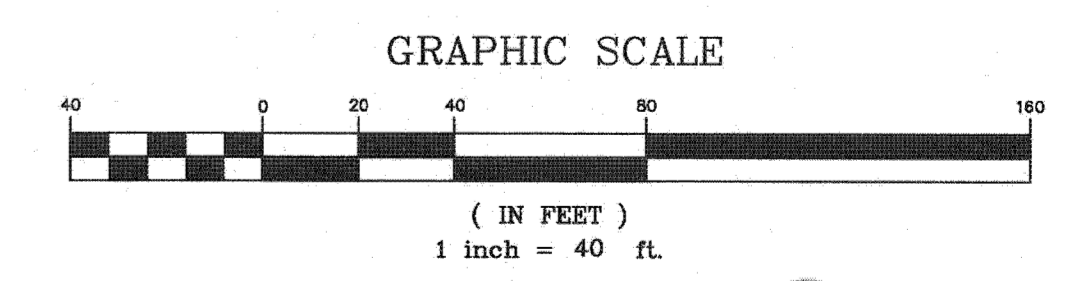
SEWER CONSTRUCTION NOTES			
NO.	DESCRIPTION	QTY.	UNITS
1	JOIN EX MANHOLE, REFORM BASE AS REQUIRED	1	EA
2	CONSTRUCT 8" PVC SEWER LINE (SDR-35), TRENCH BACKFILL	548	LF
PEER RIVERSIDE PUBLIC WORKS STD DWG NO. 453			
3	CONSTRUCT SEWER MANHOLE PER RIVERSIDE PUBLIC WORKS STD	4	EA
DWG NO. 500 (OMIT STEPS)			
4	CONSTRUCT SEWER LATERAL AND CLEANOUT PER RIVERSIDE	68	LF
PUBLIC WORKS STD DWG NO. 562			
5	ADJUST MANHOLE TO GRADE	2	EA

**SHEET INDEX:**

1. TITLE SHEET
2. SEWER PLAN AND PROFILE

**LEGEND:**

- SS - EXISTING SEWER
- W - EXISTING WATER
- - - - - PROPOSED SEWER
- - PROPOSED MH
- - EXISTING MH
- DWG - DRAWING
- SD - STORM DRAIN
- MIN. - MINIMUM
- NTS - NOT TO SCALE
- INV - INVERT
- ESMT - EASEMENT
- SS - SANITARY SEWER
- C/L - CENTERLINE
- MH - MANHOLE
- STD - STANDARD
- FF - FINISH FLOOR
- LF - LINEAR FOOT
- EA - EACH



**IMPORTANT NOTICE**  
Section 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert ID Number call CALL TOLL FREE 1-800-227-2600 48 HOURS BEFORE YOU DIG  
**UNDERGROUND SERVICE ALERT**  
1-800-227-2600

**PENCO ENGINEERING, INC.**  
Civil Engineering  
Planning  
Surveying  
1642 Von Karman Ave, Ste 150  
Irvine, California 92606  
(949) 753-8111  
*[Signature]* 12/3/14  
MIGUEL ANGEL HERNANDEZ, DATE  
R.G.E. No. C61378 expires 6/30/15



MARK	REVISIONS	APPR.	DATE

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

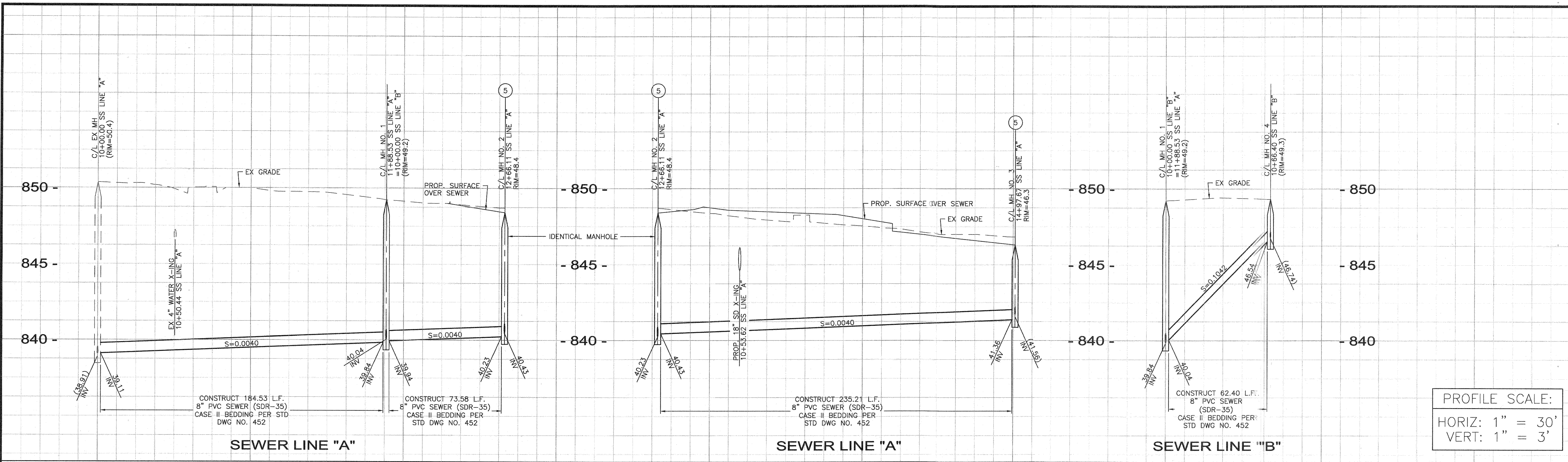
**CITY OF RIVERSIDE, CALIFORNIA  
PUBLIC WORKS DEPARTMENT**

APPROVED BY:	BY:	DATE:	APPROVED BY:
ENGINEERING MANAGER	<i>[Signature]</i>	12/11/14	<i>[Signature]</i>
CAPITAL PROJECTS	T.A.S.	12/11/14	CITY ENGINEER/PW DIRECTOR

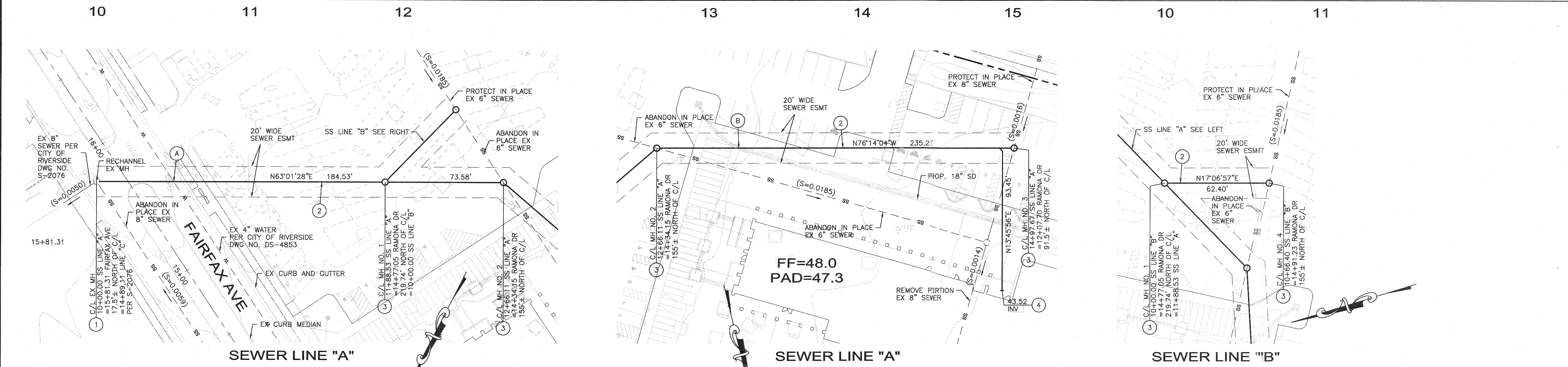
DATE: 12/10/2014

**SEWER LINE RELOCATION**  
RIVERSIDE COMMUNITY COLLEGE DISTRICT  
STUDENT SERVICES AND ADMINISTRATION BUILDING  
4800 MAGNOLIA AVE, RIVERSIDE, CA 92506  
TITLE SHEET  
HORIZONTAL SCALE: PER PLAN VERTICAL SCALE: PER PLAN

PW13-0531  
**S-2116**  
SHEET 1 OF 2



PROFILE SCALE:  
 HORIZ: 1" = 30'  
 VERT: 1" = 3'



**SEWER NOTES:**

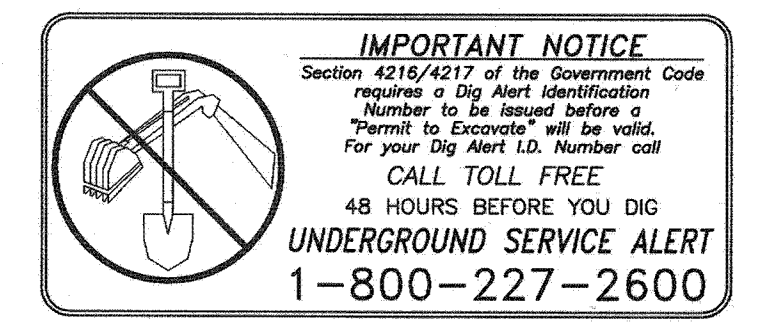
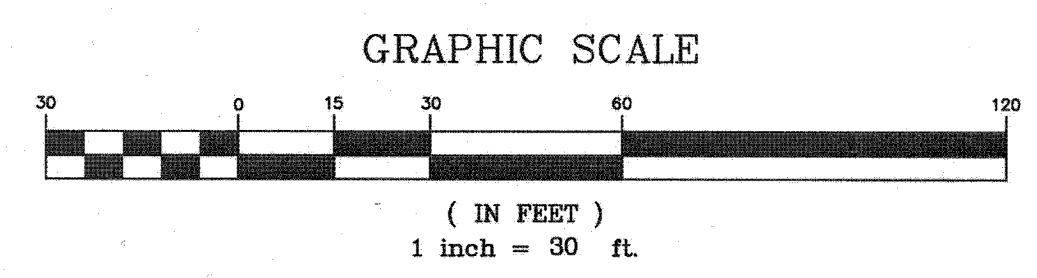
- 1 JOIN EX MANHOLE, REFORM BASE AS REQUIRED
- 2 CONSTRUCT 8" PVC SEWER LINE (SDR-35), TRENCH BACKFILL PER RIVERSIDE PUBLIC WORKS STD DWG NO. 453
- 3 CONSTRUCT SEWER MANHOLE PER RIVERSIDE PUBLIC WORKS STD DWG NO. 500 (OMIT STEPS)
- 4 CONSTRUCT 4" SEWER LATERAL AND CLEANOUT PER RIVERSIDE PUBLIC WORKS STD DWG NO. 562
- 5 ADJUST MANHOLE TO GRADE

**SEWER TABLE:**

A	BOT EX 4" WATER = 46.57 TOP PROP 8" SEWER = 39.97 CLEAR = 6.60'
B	BOT PROP. 18" SD = 44.63 TOP PROP 8" SEWER = 41.31 CLEAR = 3.32'

CITY OF RIVERSIDE - PUBLIC UTILITIES DEPARTMENT  
 WATER DIVISION, REVIEWED FOR CONFLICTS ONLY

APPROVED BY: *[Signature]* DATE: 12/14/2014



**PENCO ENGINEERING, INC.**  
 Civil Engineering  
 Planning  
 Surveying  
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 Irvine, California 92606  
 (949) 753-8111

*[Signature]* 12/3/14  
 DATE

R.C.E. No. C61378 expires 6/30/15



MARK	REVISIONS	APPR. DATE
DESIGNED BY: SC	DRAWN BY: SC	CHECKED BY: 1111

**CITY OF RIVERSIDE, CALIFORNIA**  
 PUBLIC WORKS DEPARTMENT

APPROVED BY: *[Signature]* DATE: 12/14/2014  
 CITY ENGINEER/PW DIRECTOR

**SEWER LINE RELOCATION**  
 RIVERSIDE COMMUNITY COLLEGE DISTRICT  
 STUDENT SERVICES AND ADMINISTRATION BUILDING  
 4800 MAGNOLIA AVE, RIVERSIDE, CA 92506

SEWER PLAN AND PROFILE

HORIZONTAL SCALE: PER PLAN VERTICAL SCALE: PER PLAN

PW13-0531  
**S-2116**  
 SHEET 2 OF 2