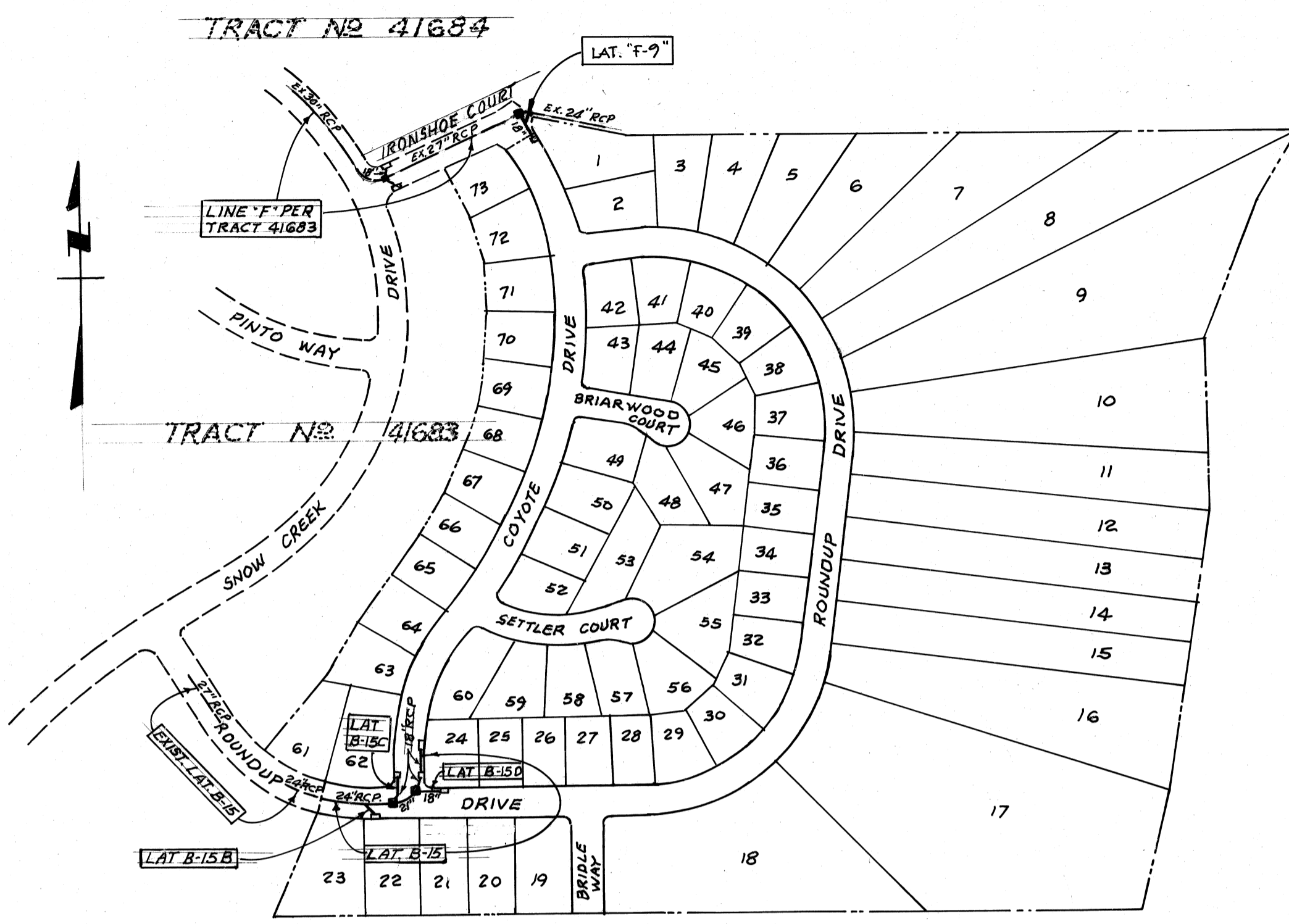


GENERAL NOTES FOR STORM DRAIN CONSTRUCTION

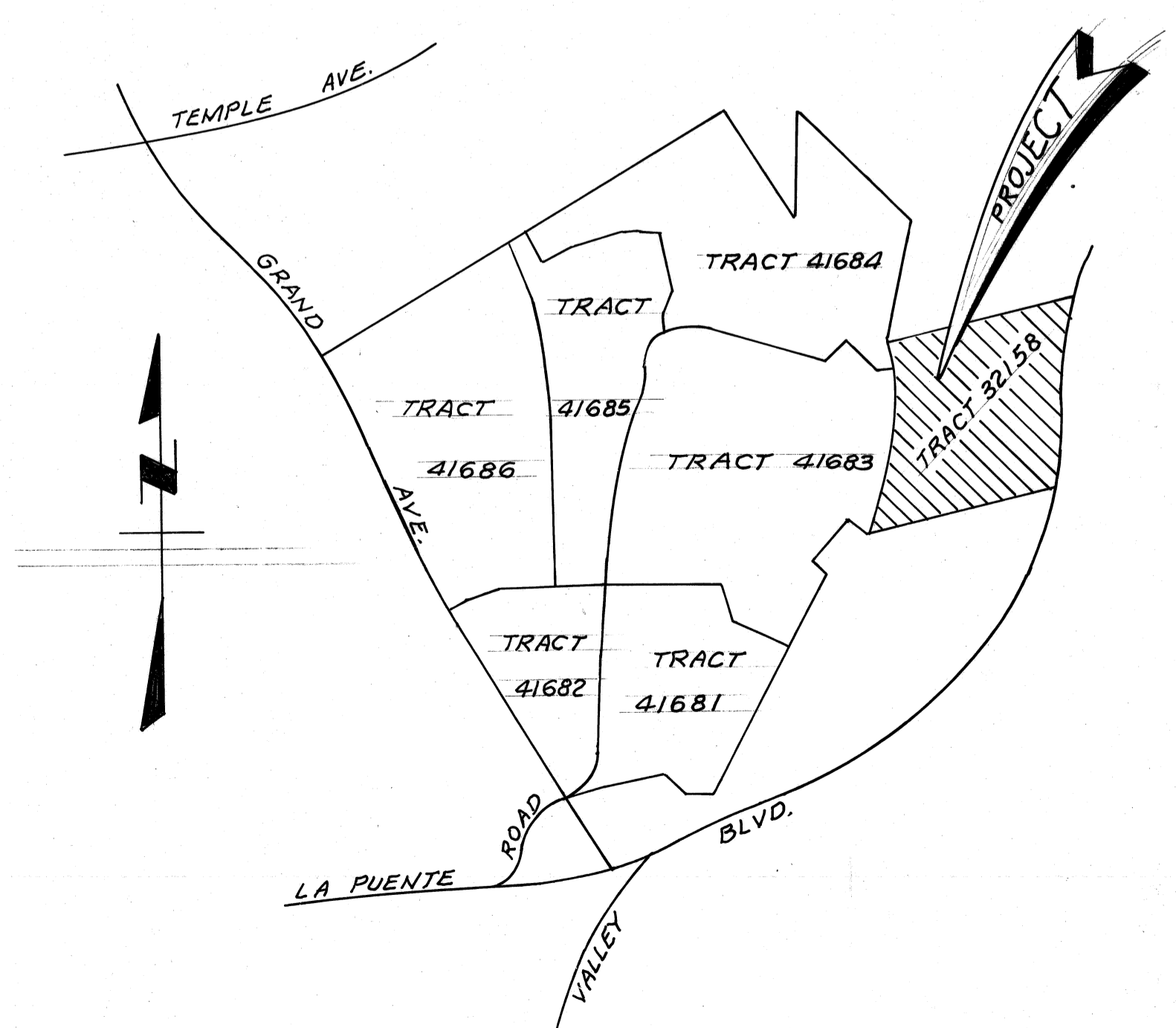
1. ALL PIPE LAID IN OPEN TRENCH SHALL BE BEDDED IN ACCORDANCE WITH L.A.C.F.C.D. STD. NO. 2-D177.
2. 48 HOURS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER (714) 594-9702.
3. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECS FOR PUBLIC WORKS CONSTRUCTION AND SUPPLEMENT, 1982 EDITION, WITH 1983 SUPPLEMENT.
4. ALL BACKFILL SHALL BE COMPACTED TO A RELATIVE DENSITY OF 90%.
5. ALL STATE AND LOCAL TRENCH SAFETY SPECS WILL BE RIGIDLY ENFORCED.
6. THE CONTRACTOR MUST MAINTAIN ALL TRAFFIC SIGNS IN AN ERECT READILY DISCERNABLE POSITION AND FREE FROM OBSTRUCTION TO MOTORISTS VISION, AND SHALL RESET SAME IN THE PROPER POSITION UPON COMPLETION OF CONSTRUCTION.
7. EXISTING UTILITIES CROSSING THE STORM DRAIN SHALL BE SUPPORTED PER L.A.C.F.C.D. STD. 2-D173 AS DIRECTED BY THE CITY ENGINEER.
8. R.C.P. SHALL BE MANUFACTURED AND INSPECTED IN ACCORDANCE WITH SECTION 207-2.6, 2.7, 2.8 AND 2.9 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1982 EDITION), WITH 1983 SUPPLEMENT.
9. THE CONTRACTOR SHALL FURNISH A LETTER OF CERTIFICATION FROM THE PIPE MANUFACTURER AS TO TEST RESULTS OF THE PIPE INSTALLED.
10. ALL PIPE LENGTHS SHOWN ARE HORIZONTAL PROJECTIONS, UNLESS OTHERWISE NOTED.
11. ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I.
12. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615-GRADE 60.
13. THE ENGINEER, V.T.N., HAS INVESTIGATED ALL AVAILABLE RECORDS OF THE CITY AND OF THE UTILITY COMPANIES INVOLVED AND ALL KNOWN SUB STRUCTURES ARE SHOWN HEREON. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SUBSTRUCTURES, WHETHER OR NOT SHOWN HEREON AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF SAID SUBSTRUCTURES DAMAGE BY HIS OPERATION IN CONNECTION WITH THE PROSECUTION OF SAID WORK.
14. THIS STORM DRAIN WILL NOT BE ACCEPTED FOR MAINTENANCE UNTIL THE STREETS HAVE BEEN PAVED, MANHOLES BROUGHT UP TO GRADE AND THE SYSTEM IS CLEANED TO THE SATISFACTION OF THE CITY ENGINEER.
15. ELEVATIONS ARE IN FEET ABOVE U.S.C.G.S. MEAN SEA LEVEL DATUM OF 1929.
16. FINISH ALL EXPOSED EDGES WITH 3/4" CHAMFER.
17. ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP AT SPLICES OF 30 BAR DIAMETERS.
18. ALL PIPE TO BE IMBEDDED A MINIMUM OF 5 INCHES INTO HEADWALLS OF STRUCTURES.

QUANTITY ESTIMATE

NO.	DESCRIPTION	QUANTITY	UNIT
①	REMOVE BRICK AND MORTAR SEAL	2	EA.
②	JCT. STR. NO. 2 PER LACFCD STD. 2-D112	1	EA.
③	M.H. NO. 1 PER LACFCD STD. 2-D102	1	EA.
④	M.H. NO. 1 PER LACFCD STD. 2-D102 (WITHOUT SHAFT)	1	EA.
⑤	CATCH BASIN NO. 1 PER LACFCD STD. 2-D160	3	EA.
⑥	CATCH BASIN NO. 3 PER LACFCD STD. 2-D163	3	EA.
⑦	CONST. 24" R.C.P. ~"D" LOAD PER PROFILE	100	L.F.
⑧	CONST. 21" R.C.P. ~"D" LOAD PER PROFILE	57	L.F.
⑨	CONST. 18" R.C.P. ~"D" LOAD PER PROFILE	226	L.F.



KEY MAP
SCALE: 1" = 200'



LOCATION MAP

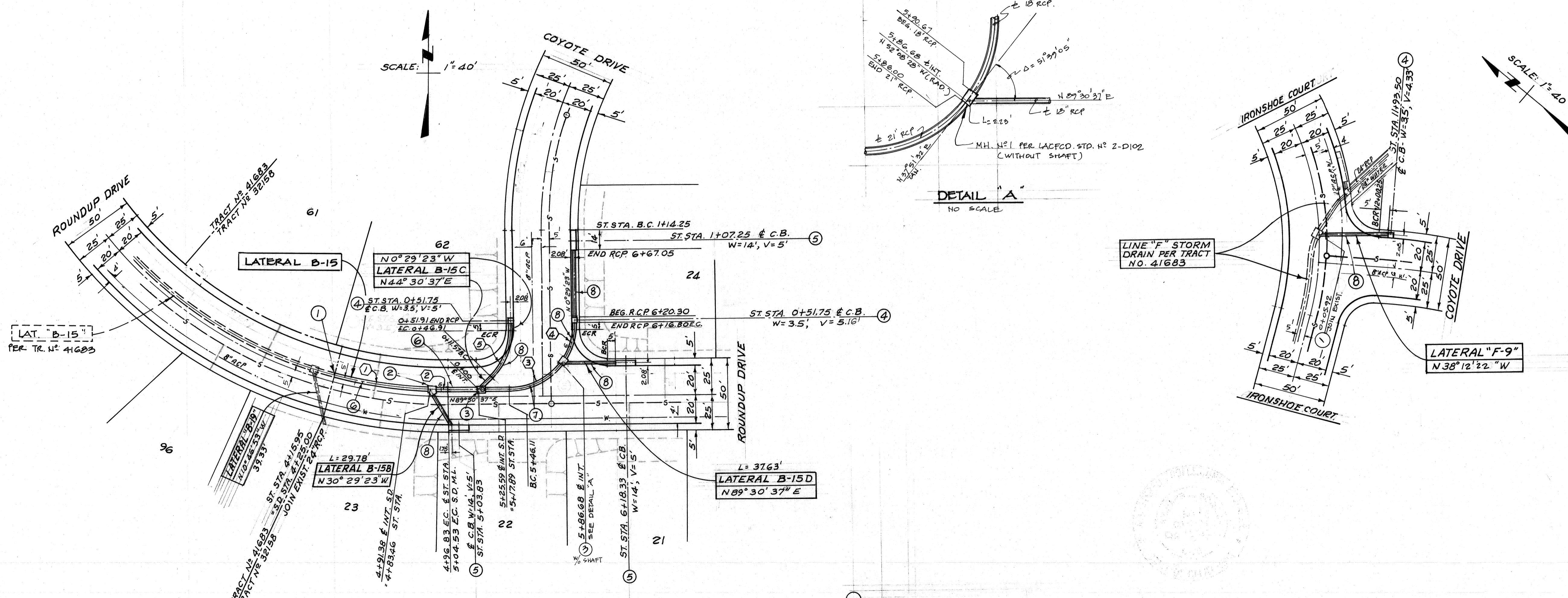
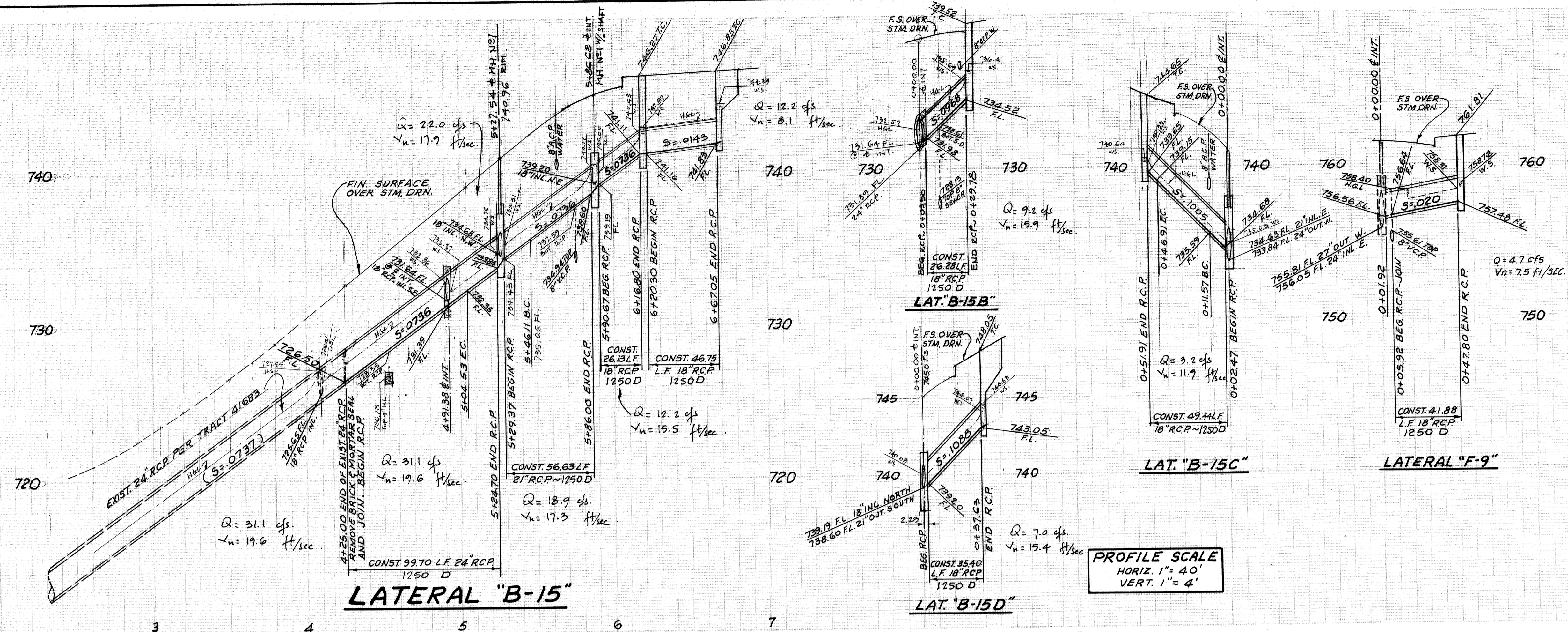
NOTICE TO CONTRACTOR:
CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS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



NOTE:
IF CONSTRUCTION OF IMPROVEMENTS AS SHOWN HEREON ARE NOT COMMENCED WITHIN 18 MONTHS OF APPROVAL DATE, THESE PLANS ARE SUBJECT TO REVIEW BY THE CITY.

<p>BASIS OF BEARINGS N22°58'05" W. FOR THE CENTERLINE OF GRAND AVE. AS SHOWN ON TRACT NO. 40715 RECORDED IN BOOK 998, PAGES 80 THROUGH 84 INCLUSIVE OF MAPS, RECORDS OF LOS ANGELES COUNTY.</p>	<p>BENCHMARK B.M.C. 1781 ELEV. 617.011 R.D.B.M. TAG N.R. CTR. OF CONC. HDWL. 24 FT. N. & LA PUENTE ROAD ± 0.2 MI. W/O GRAND AVE. COVINA QUAD 1975</p>	<p>APPROVED BY CITY OF WALNUT CITY ENGINEER <i>Ronald L. Kranzer</i> RONALD L. KRANZER RCE 18503 DATE</p>	<p>PLANS PREPARED BY VTN CONSOLIDATED INC. 2301 CAMPUS DRIVE IRVINE, CA. 92713 (714) 851-5200 <i>Richard L. Bowman</i> RICHARD BOWMAN RCE: 24573 DATE 9-24-85</p>
--	--	--	--

CITY OF WALNUT		SHEET 1 OF 2
TRACT No. 32158 STORM DRAIN		



NO.	Δ	R	L	T
⑤	45°00'00"	45'	35.34'	18.64'
④	38°20'55"	45'	30.12'	15.65'
③	51°39'05"	48'	40.57'	21.78'
②	2°33'43"	294'	13.15'	6.57'
①	12°56'13"	294'	66.38'	33.33'

CURVE DATA

- ① REMOVE EXIST. BRICK & MORTAR SEAL AND JOIN EXIST. R.C.P.
 - ② CONST. JUNCTION STR. NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D112.
 - ③ CONST. M.H. NO. 1 PER L.A.C.F.C.D. STD. NO. 2-D102.
 - ④ CONST. C.B. NO. 1 PER L.A.C.F.C.D. STD. NO. 2-D160 (V PER PLAN.)
 - ⑤ CONST. C.B. NO. 3 PER L.A.C.F.C.D. STD. NO. 2-D163, W & V PER PLAN.
 - ⑥ CONST. 24" R.C.P. ~ "D" LOAD PER PROFILE.
 - ⑦ CONST. 21" R.C.P. ~ "D" LOAD PER PROFILE.
 - ⑧ CONST. 18" R.C.P. ~ "D" LOAD PER PROFILE.
- CONSTRUCTION NOTES**