

SEWER PLANS FOR TRACT NO. 3488

GENERAL NOTES

1. CONTRACTOR SHALL NOT PLACE ROCK LARGER THAN 6" WITHIN 6 FT. OF PROPOSED SEWER AS ON CITY OF RIVERSIDE PLAN N° 5.
2. JOINTS SHALL BE IN CONFORMANCE TO A.S.T.M. SPECIFICATIONS C-285-64 TYPE I OR II OR TO A.S.T.M. SPECIFICATION C-504-66 T ("BAND SEAL") WITH CERTAIN EXCEPTIONS OR MODIFICATIONS ON FILE WITH THE CITY ENGINEER.
3. PIPE SHALL BE BEDDED PER CASE I IF GROUND WATER IS ENCOUNTERED BEDDING SHALL BE CASE II. BEDDING SHALL BE PER STD. DNG. N° 450, UNLESS OTHERWISE SPECIFIED ON PLANS.
4. ALL STUBS AND LATERALS TO CONSTRUCTED IN ACCORDANCE WITH STANDARD DNG. N° 502. STUBS SHALL BE PLUGGED AND CAPPED, AND SHALL BE 2'-0" LONG.
5. LATERALS ARE TO BE 4" AND EXTENDED TO PROPERTY LINE.
6. PRIOR TO CONSTRUCTION OF SEWER, CONTRACTOR WILL EXPOSE EXISTING SEWER AND CONTACT ENGINEER FOR VERIFICATION OF EXISTING ELEVATIONS.
7. TEES AND LATERALS SHALL BE LOCATED IN THE FIELD AT THE DIRECTION OF THE OWNER.
8. MANHOLE FRAMES & COVERS TO BE SET TO PROPOSED OR EXISTING PAVEMENT GRADES.
9. SEWER WILL BE CONSTRUCTED PRIOR TO STREET PAVING.
10. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS NO. 461 AND STANDARD DRAWINGS.

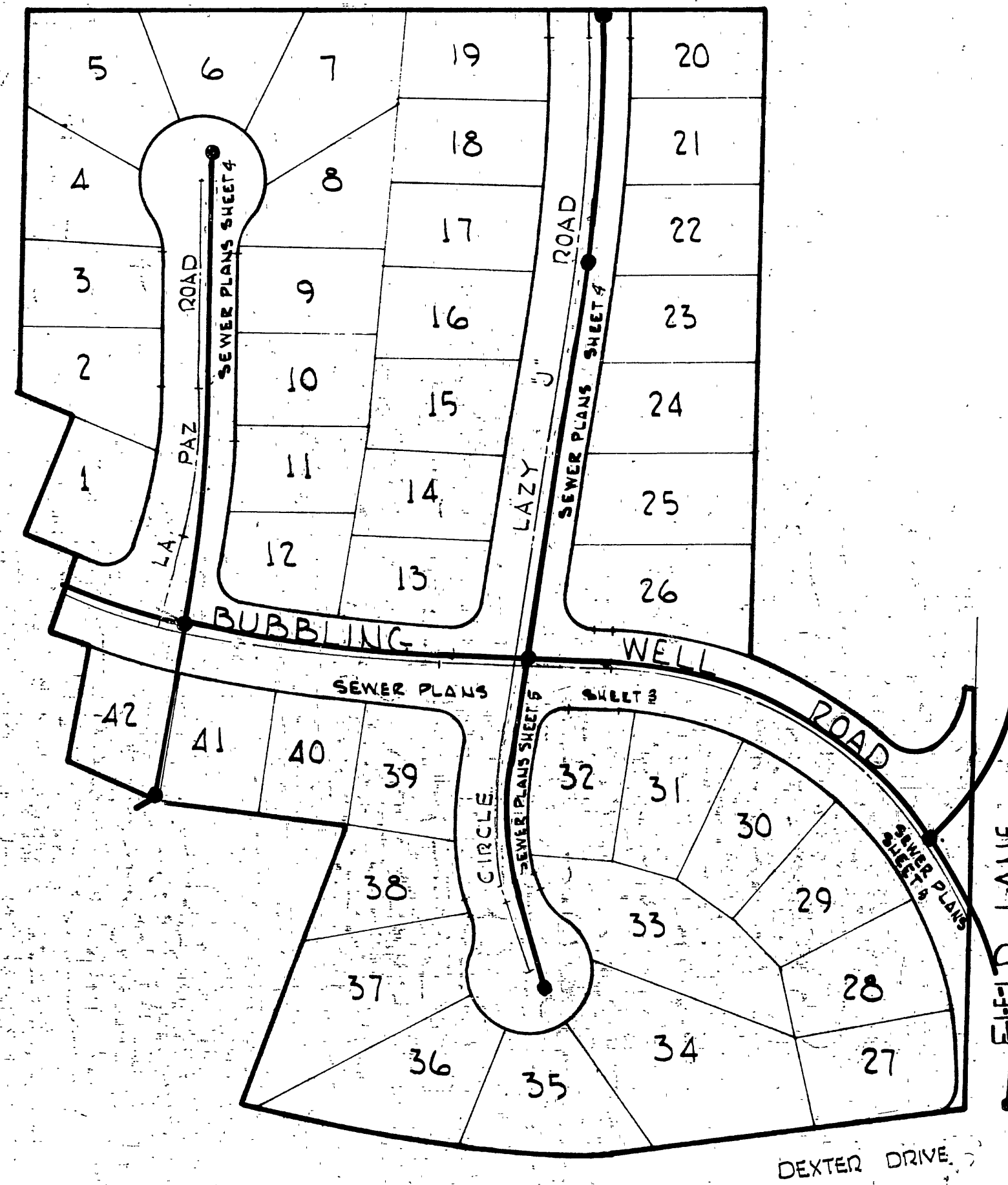
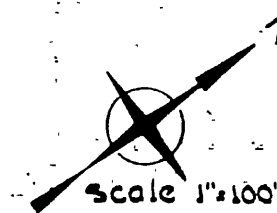
PREPARED BY
R.M. GALLOWAY & ASSOCIATES INC.
504 N. NEWPORT BLVD.
NEWPORT BEACH, CALIFORNIA

PREPARED FOR
TRUMAN JOHNSON
2599 FIELD LANE
RIVERSIDE, CALIFORNIA

QUANTITY ESTIMATE

DESCRIPTION	QUANTITY
8" V.C.P. SANITARY SEWER	2430 LF.
4" V.C.P. LATERALS	2040 LF.
MANHOLES	6 EA.
DROP MANHOLE	1 EA.
SEWER CLEANOUT	1 EA.
SEWER PUMP STATION	1 EA.
6" FORCE MAIN (TECHITE)	1600 LF.
OFF-SITE MANHOLE	1 EA.

INDEX MAP



I CERTIFY:

THAT THESE PLANS COMPLY WITH FHA OBJECTIVES, FHA MINIMUM PROPERTY STANDARDS (MPS), FHA LOCAL ACCEPTABLE STANDARDS (LAS), FHA NEIGHBORHOOD STANDARDS (L.P. BULLETIN #3), AND REPRESENT THE BEST PROFESSIONAL JUDGEMENT OF THE DESIGNER.

R.M. Galloway
R.M. GALLOWAY R.C.E. 14063

PREPARED UNDER THE SUPERVISION
OF
R.M. Galloway
R.M. GALLOWAY R.C.E. 14063

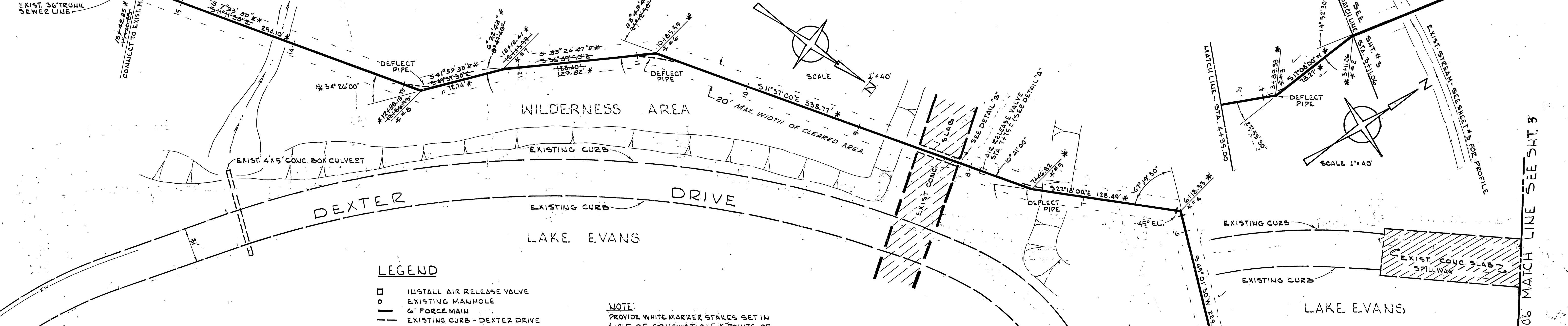
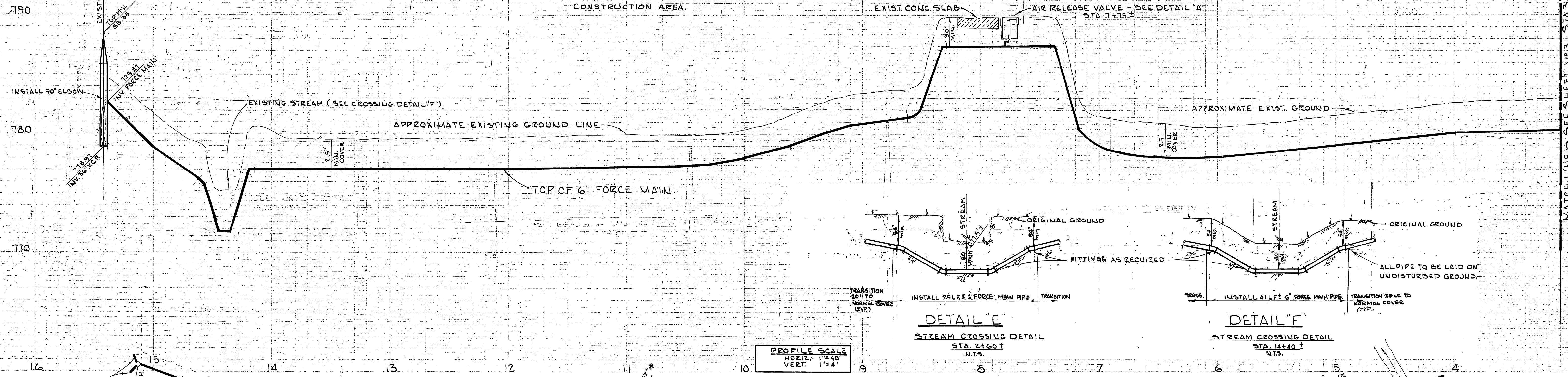
BENCH MARK:

RK. INCURD NEAR R.P. # 9342-J ON EASTERLY SIDE DEXTER DRIVE APPROXIMATELY 125 FT. ± SLY. AMERICAN LEGION BUILDING - PER CITY OF RIVERSIDE S.M. BOOK 727, PAGE 35.

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		CONSTRUCTION PLANS FOR TRACT 3488	INDEXED - R.J.R. PROJECT NO. 192-0120 5-716 SHEET 1 OF 7 FILE NO.
APPROVED BY OFFICE ENGINEER PARK DEPARTMENT TRAFFIC DIVISION ASSISTANT CITY ENG.	BY DATE 4-18	APPROVED BY DIRECTOR OF PUBLIC WORKS DATE 4-24-68	HORIZ. SCALE: 1" = 100' VERT. SCALE: 1" = 10'
DESIGNED BY J.W. DRAWN BY J.D. CHECKED BY J.W.			

PRIVATE ENGINEERS NOTE TO CONTRACTOR

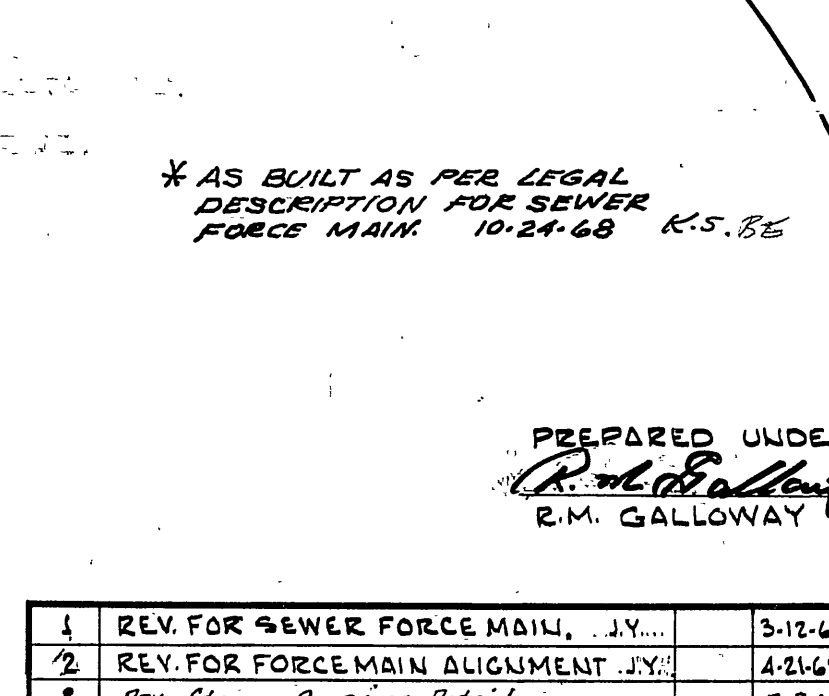
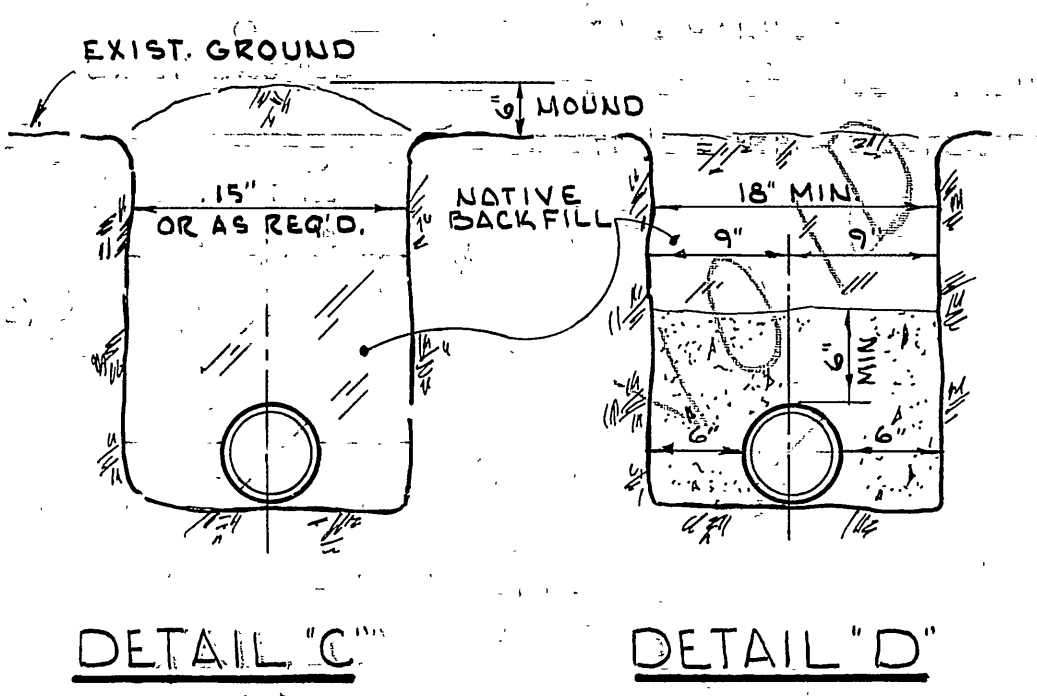
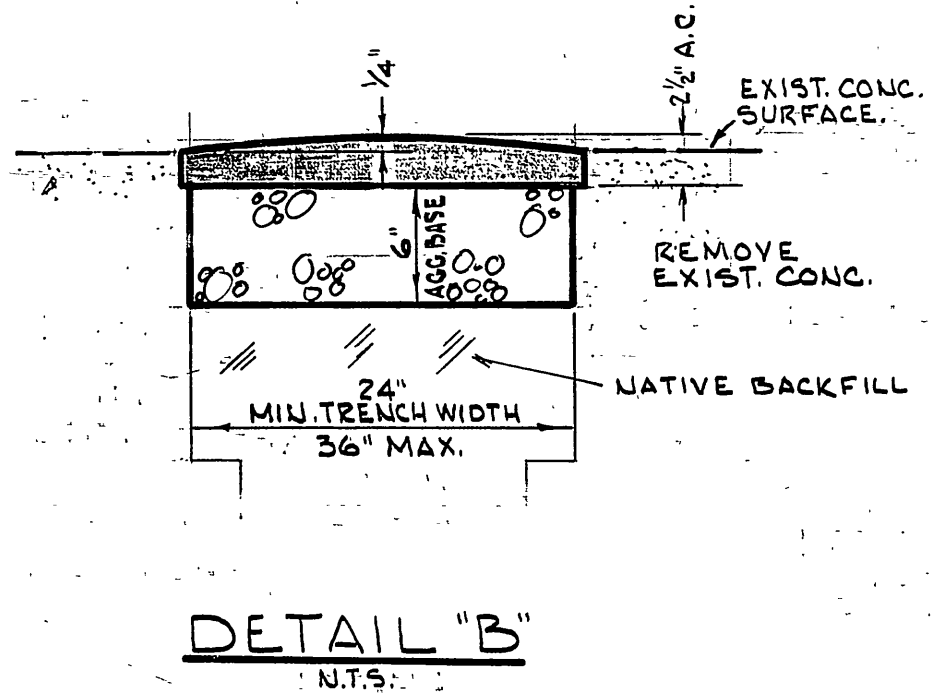
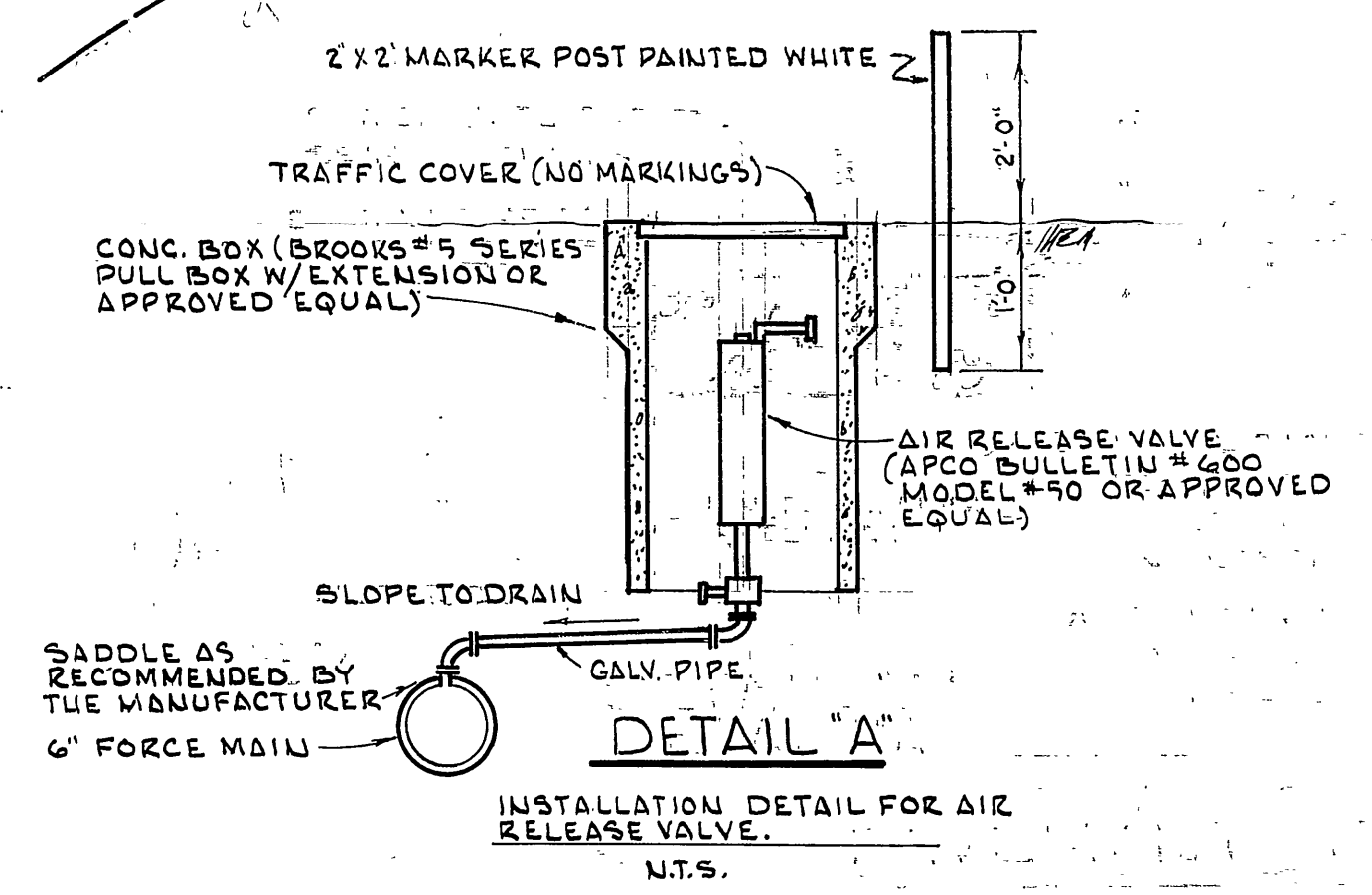
1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. APPROVAL OF THESE PLANS BY THE CITY OF RIVERSIDE DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OR COMPLETENESS OF THE LOCATION OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR IS REQUIRED TO TAKE ALL DUE PRECAUTIONARY MEANS TO PROTECT ANY UTILITY LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
 2. CONTRACTOR TO CLEAR ALL CUT AND DEAD MATERIAL FROM CONSTRUCTION AREA.



LEGEND

- INSTALL AIR RELEASE VALVE
- EXISTING MANHOLE
- 6" FORCE MAIN
- - - EXISTING CURB - DEXTER DRIVE

NOTE:
 PROVIDE WHITE MARKER STAKES SET IN 1' C.F. OF CONC. AT ALL *POINTS OF FORCE MAIN ALIGNMENT.



PREPARED UNDER THE SUPERVISION OF
R.M. Galloway
 R.M. GALLOWAY R.C.E. 14063 4-22-68 DATE

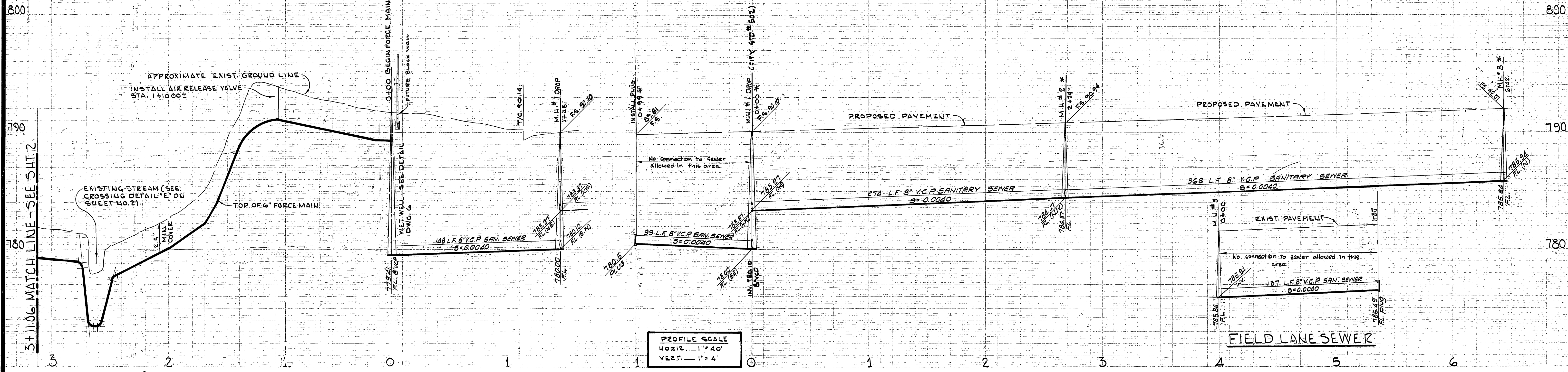
BENCH MARK:
 P.K. IN CURB NEAR RR # 9342-J ON E'LY SIDE DEXTER DRIVE APPROX. 125 FT. ± S'LY AMERICAN LEGION BLDG. - PER CITY OF RIVERSIDE B.M. BOOK 727 - PAGE 58. ELEV. 792.09

1	REV. FOR SEWER FORCE MAIN, J.Y.	3-12-68
2	REV. FOR FORCE MAIN ALIGNMENT, J.Y.	4-24-68
3	Rev. Stream Crossing Detail	6-3-68
CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS APPROVED BY: <i>[Signature]</i> DATE: 6-5-68 OFFICE ENGINEER PARK DEPARTMENT TRAFFIC DIVISION DIRECTOR OF PUBLIC WORKS (HOLDING RESIGNATION) MARK: REVISIONS: APPR. DATE: ASSISTANT CITY ENG. 4-5-68 DESIGNED BY: J.M.N. DRAWN BY: J.Y. CHECKED BY: <i>[Signature]</i>		
CONSTRUCTION PLANS FOR DEXTER DRIVE SEWER LINE TRACT 3488		PROJECT NO. 192-0100 5-716 SHEET 2 OF 7 FILE NO.
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'		

MATCH LINE - SEE SHEET N-3 STA 3+106

MATCH LINE - STA. 4+350

CD 203



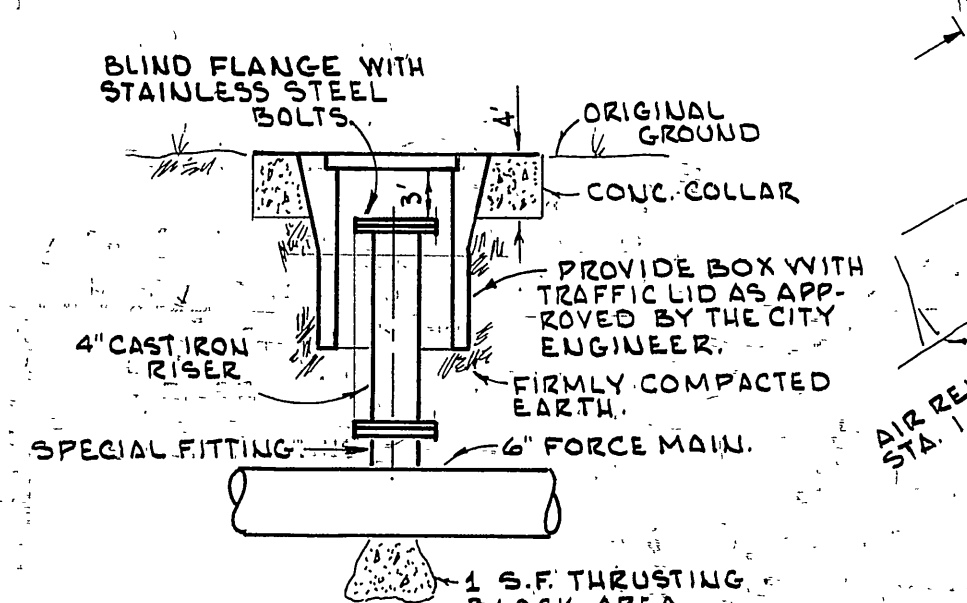
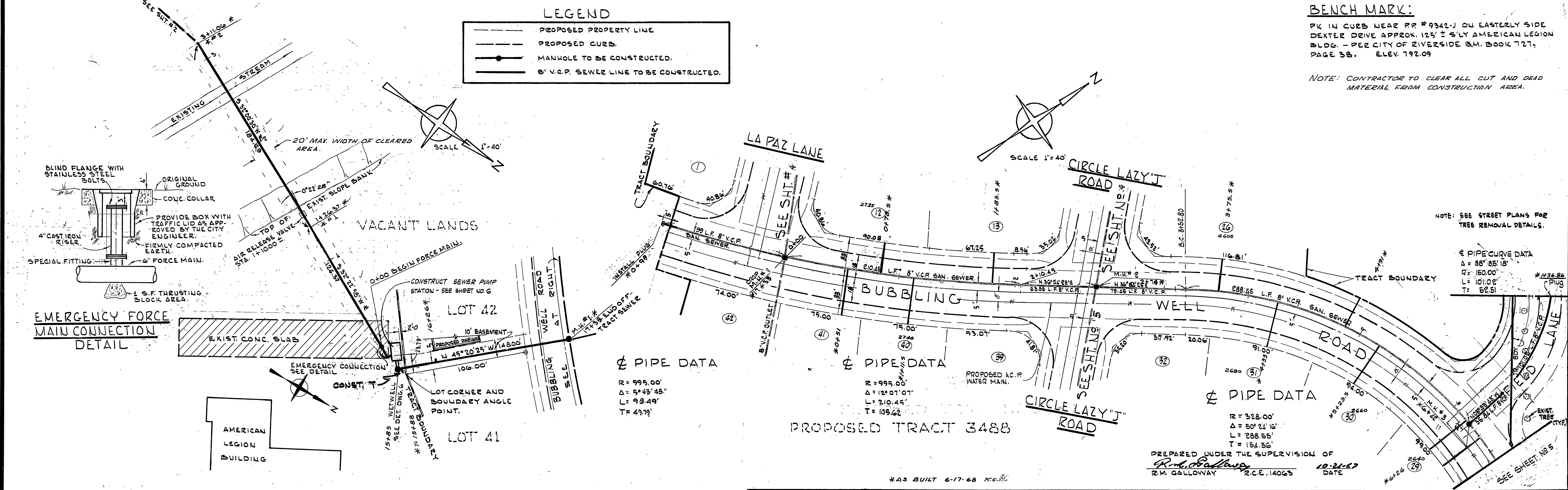
PROFILE SCALE
 HORIZ. 1" = 40'
 VERT. 1" = 4'

LEGEND

- PROPOSED PROPERTY LINE
- PROPOSED CURB
- MANHOLE TO BE CONSTRUCTED
- 6" V.C.P. SEWER LINE TO BE CONSTRUCTED

BENCH MARK:
 PK IN CURB NEAR PP #9342-J ON EASTERLY SIDE
 DEXTER DRIVE APPROX. 125' S'LY AMERICAN LEGION
 BLDG. - PER CITY OF RIVERSIDE B.M. BOOK 727,
 PAGE 38. ELEV. 792.09

*NOTE: CONTRACTOR TO CLEAR ALL CUT AND DEAD
 MATERIAL FROM CONSTRUCTION AREA.*



PIPE DATA
 R = 995.00'
 Δ = 5° 43' 45"
 L = 99.49'
 T = 49.79'

PIPE DATA
 R = 995.00'
 Δ = 12° 07' 07"
 L = 210.45'
 T = 105.62'

PIPE DATA
 R = 328.00'
 Δ = 50° 21' 16"
 L = 288.55'
 T = 154.56'

PREPARED UNDER THE SUPERVISION OF
R.M. Galloway
 R.M. GALLOWAY R.C.E. 1406'S
 DATE 10-21-67

APPROVED FOR CONSTRUCTION WITHIN TRACT BOUNDARY	1	REV. FOR SEWER FORCE MAIN	J.Y.	3-12-68
	2	REV. FORCE MAIN ALIGNMENT	J.Y.	4-21-68
APPROVED BY	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS			
DIRECTOR OF PUBLIC WORKS	APPROVED BY	BY DATE	APPROVED BY	DATE
	MARK	REVISIONS	APPR. DATE	DATE
DESIGNED BY J.M.W.	DRAWN BY J.Y.	CHECKED BY	CONSTRUCTION PLANS FOR DEXTER DRIVE & BUBBLING WELL ROAD - SEWER LINE TRACT 3488	
PROJECT NO. 192-0100				SHEET 3 OF 7
HORIZ. SCALE: 1" = 40'				FILE NO.

800

790

780

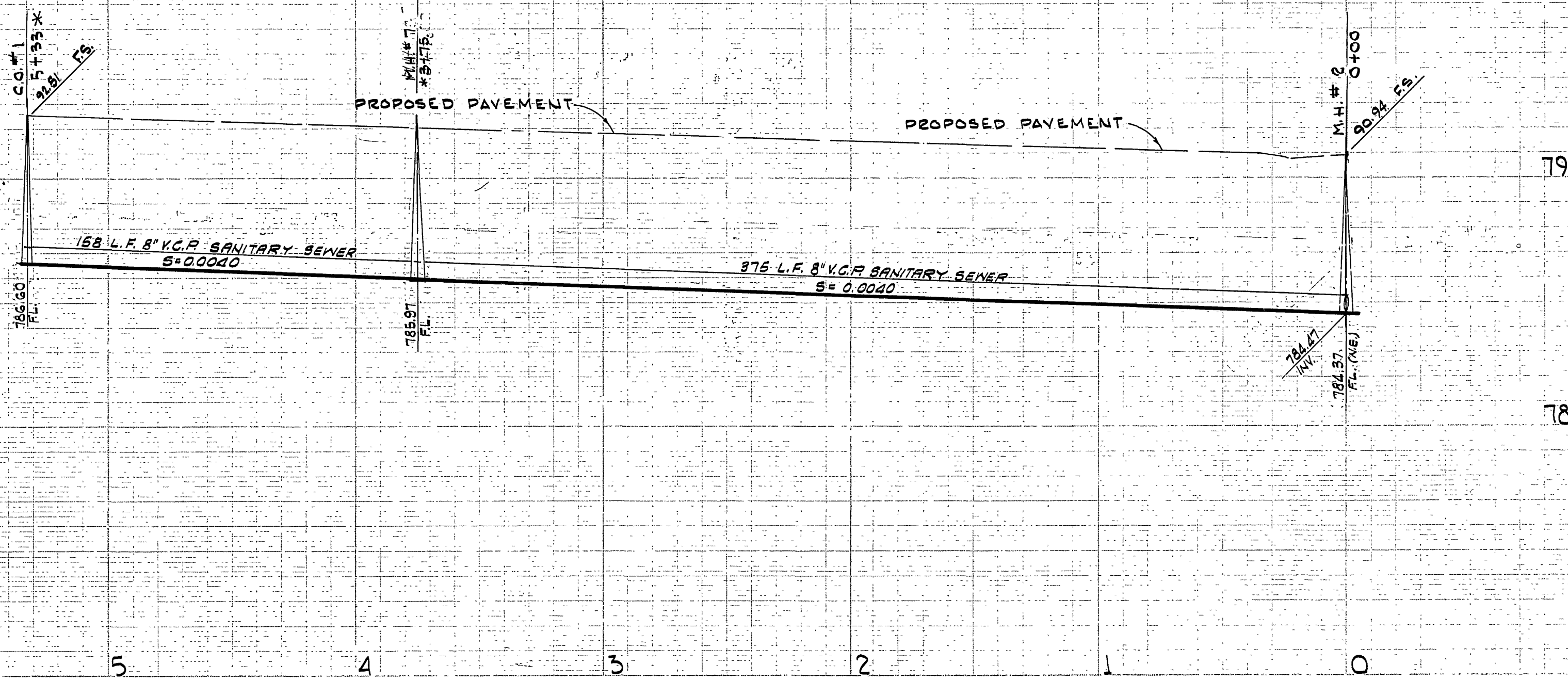
800

790

780

4 3 2 1 0 5 4 3 2 1 0

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

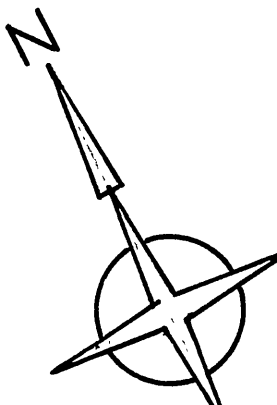


LEGEND

- PROPOSED PROPERTY LINE.
- - - PROPOSED CURB LINE.
- MANHOLE TO BE CONSTRUCTED.
- 8" V.C.P. SEWER LINE TO BE CONSTRUCTED.

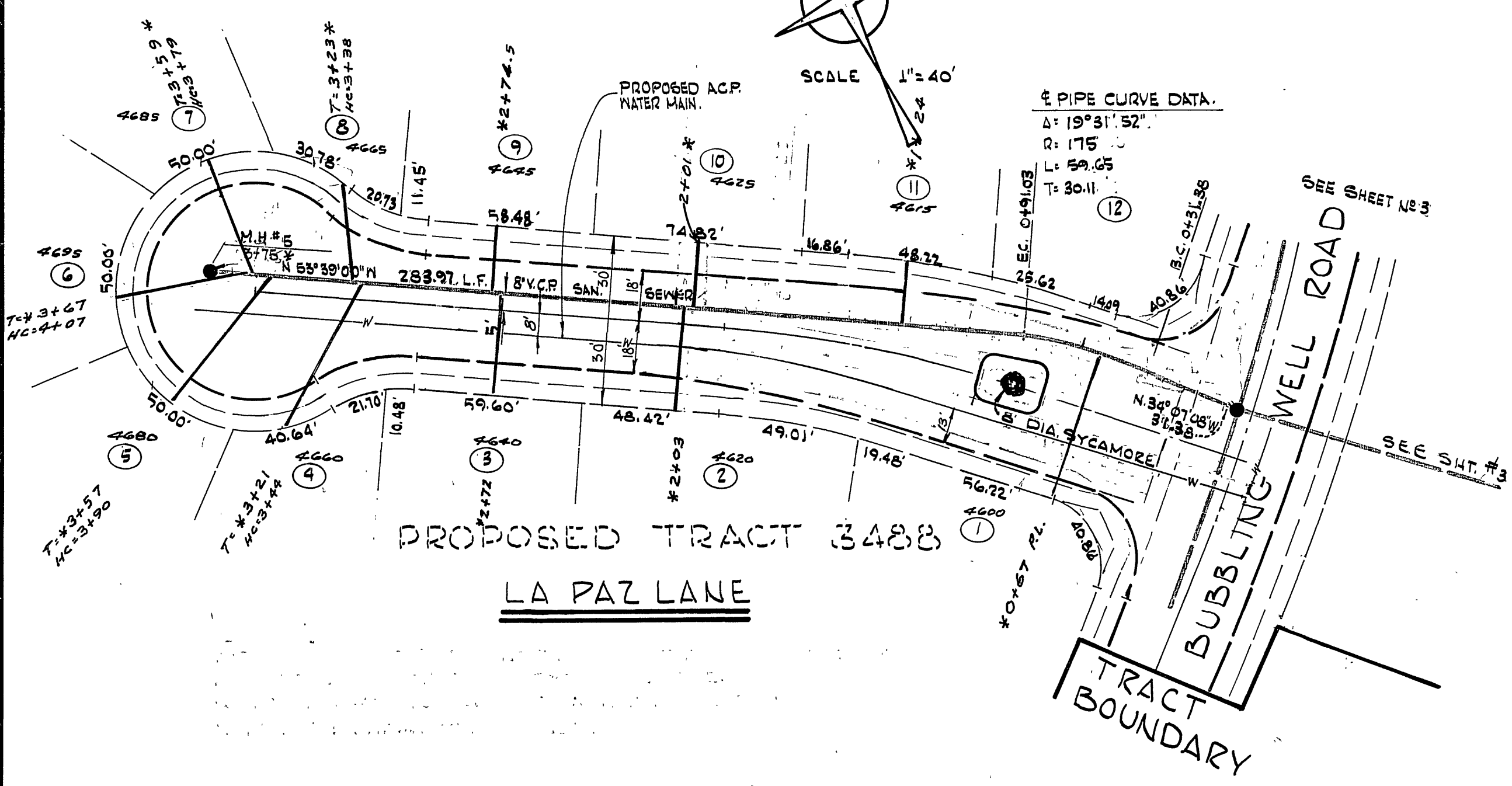
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PK 10 CURB NEAR PP # 9342-J ON EASTERLY SIDE
DEXTER DRIVE APPROX. 125' ± S/WLY AMERICAN
LEGION BLDG. - PER CITY OF RIVERSIDE B.M.
BOOK 727, PAGE 58, ELEV. 792.09



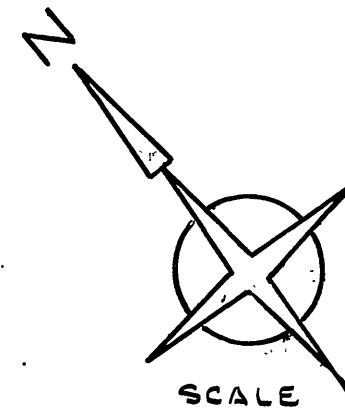
SCALE 1" = 40'

PIPE CURVE DATA.
Δ: 19°31'52"
R: 175'
L: 59.05'
T: 30.11'

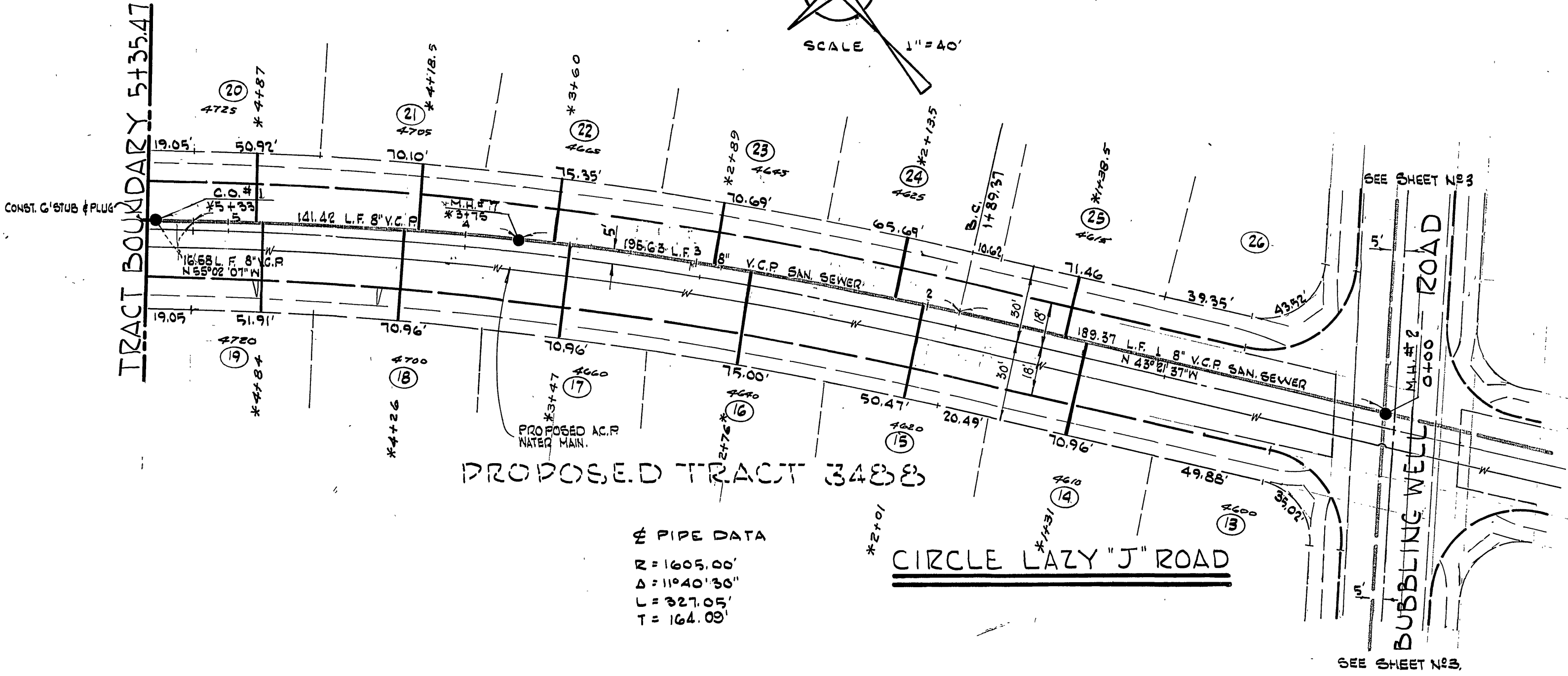


PROPOSED TRACT 3488
LA PAZ LANE

TRACT BOUNDARY
BUBBLING WELL ROAD



SCALE 1" = 40'



PROPOSED TRACT 3488

CIRCLE LAZY "J" ROAD

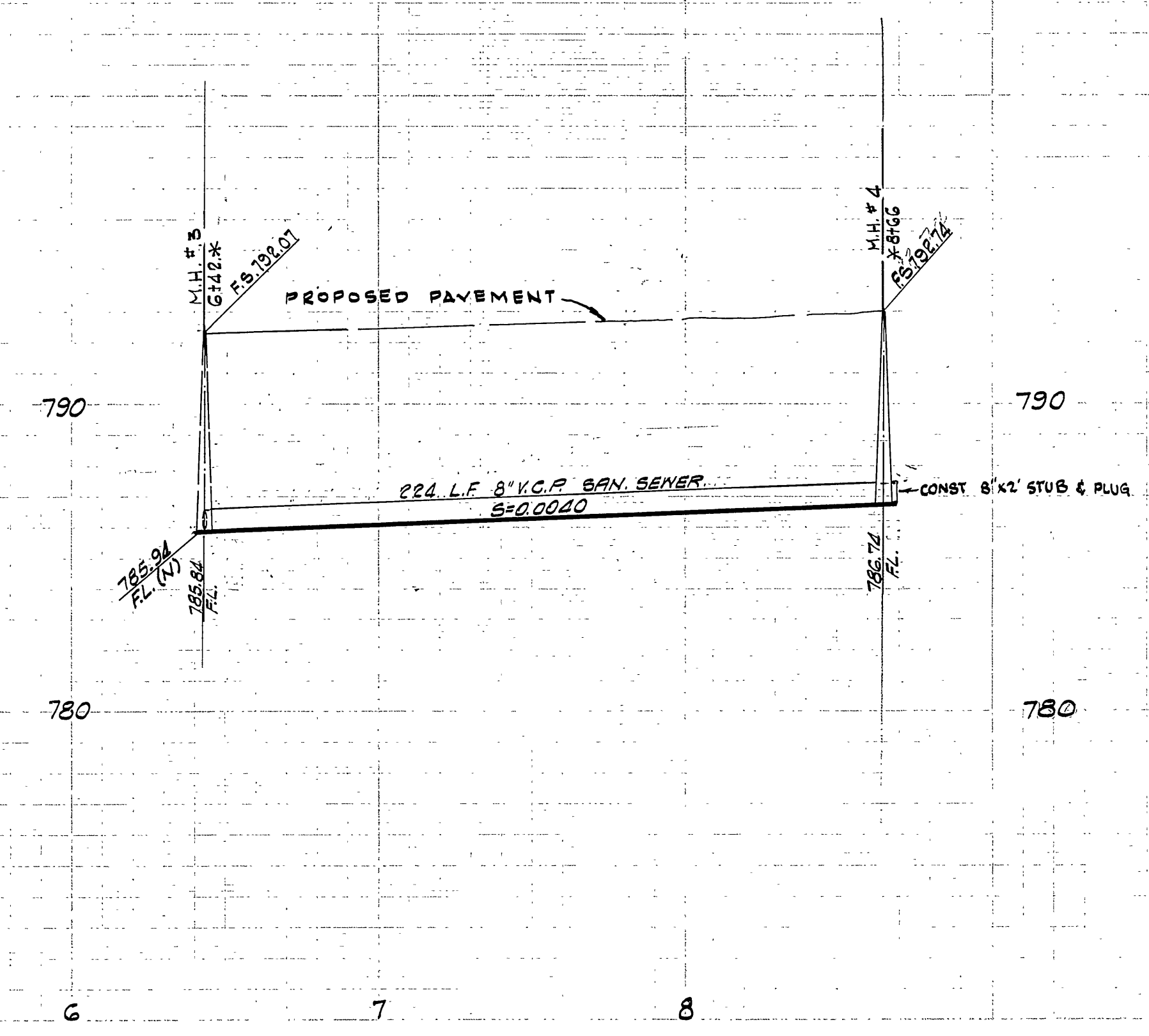
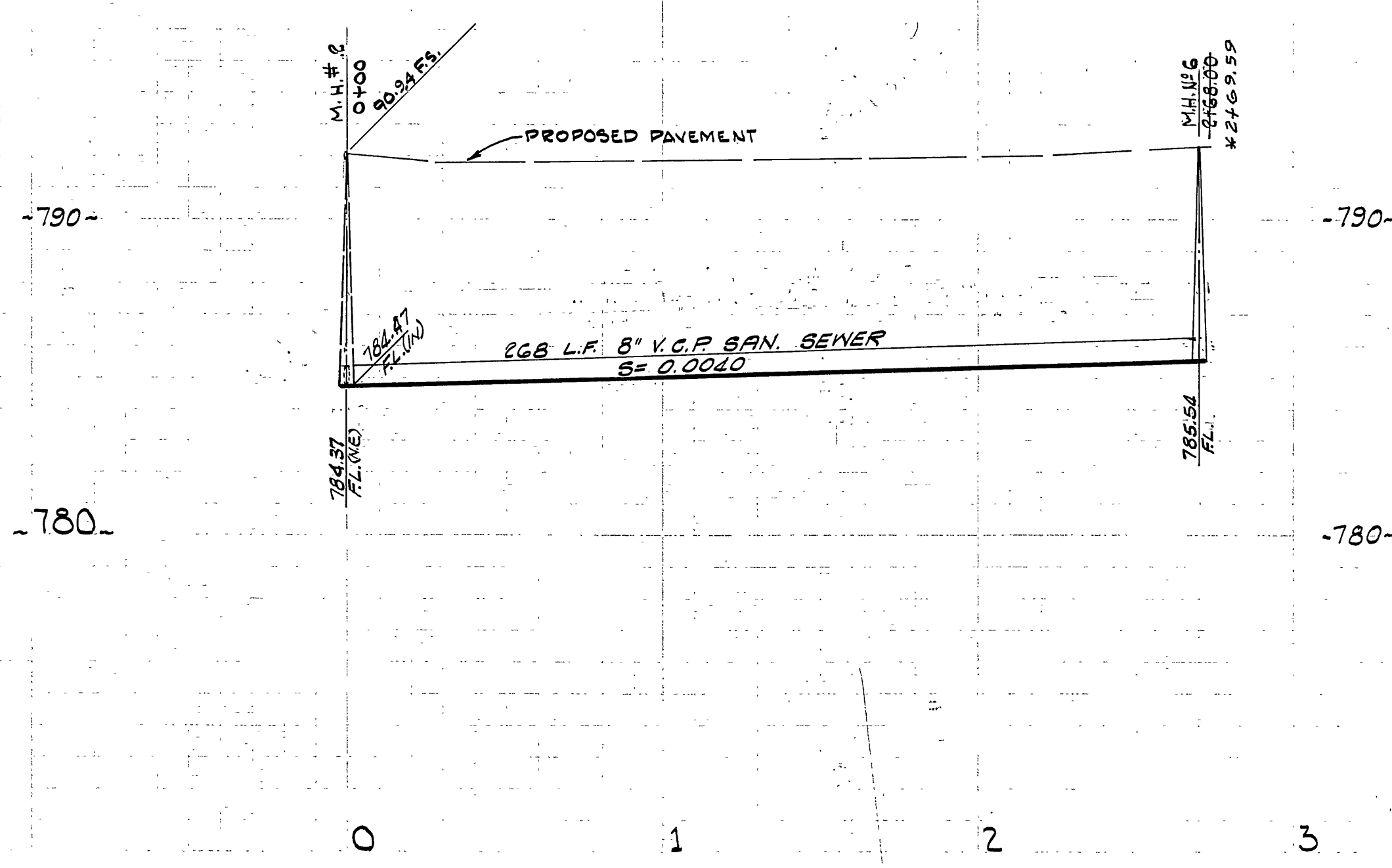
PIPE DATA
R: 1605.00'
Δ: 11°40'30"
L: 327.05'
T: 164.09'

*AS BUILT 5-28-68 R.S.

PREPARED UNDER THE SUPERVISION OF
R. McCallister
C.M. GALLOWAY P.E. 14063 DATE 10-21-67

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		CONSTRUCTION PLANS FOR LA PAZ LANE & CIRCLE LAZY "J" ROAD - SEWER LINE TRACT 3488		PROJECT NO. 192-0100
APPROVED BY OFFICE ENGINEER PARK DEPARTMENT TRAFFIC DIVISION	BY <i>[Signature]</i> 4-12	DATE 10-21-67	APPROVED BY <i>[Signature]</i> DIRECTOR OF PUBLIC WORKS	SHEET 5-716 OF 7
DESIGNED BY J.M.W.	DRAWN BY J.Y.	CHECKED BY <i>[Signature]</i>	DATE 9-21-67	FILE NO.

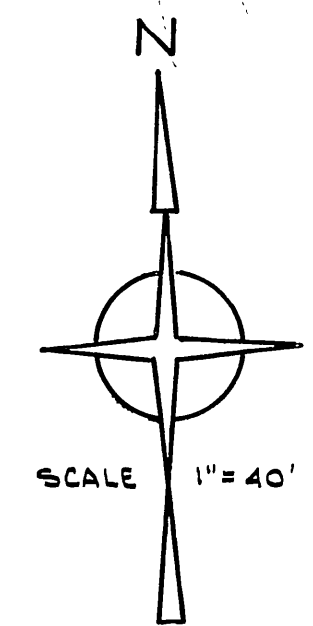
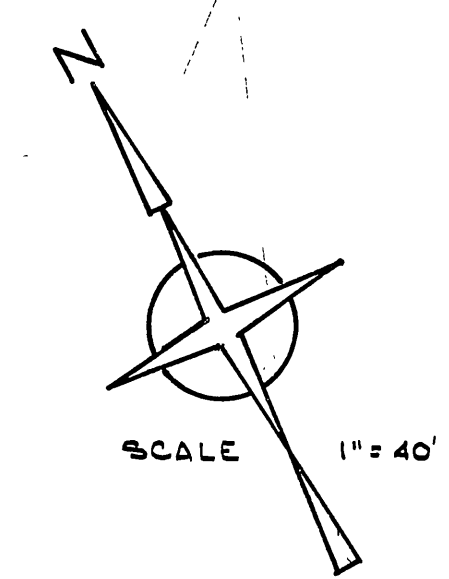
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'



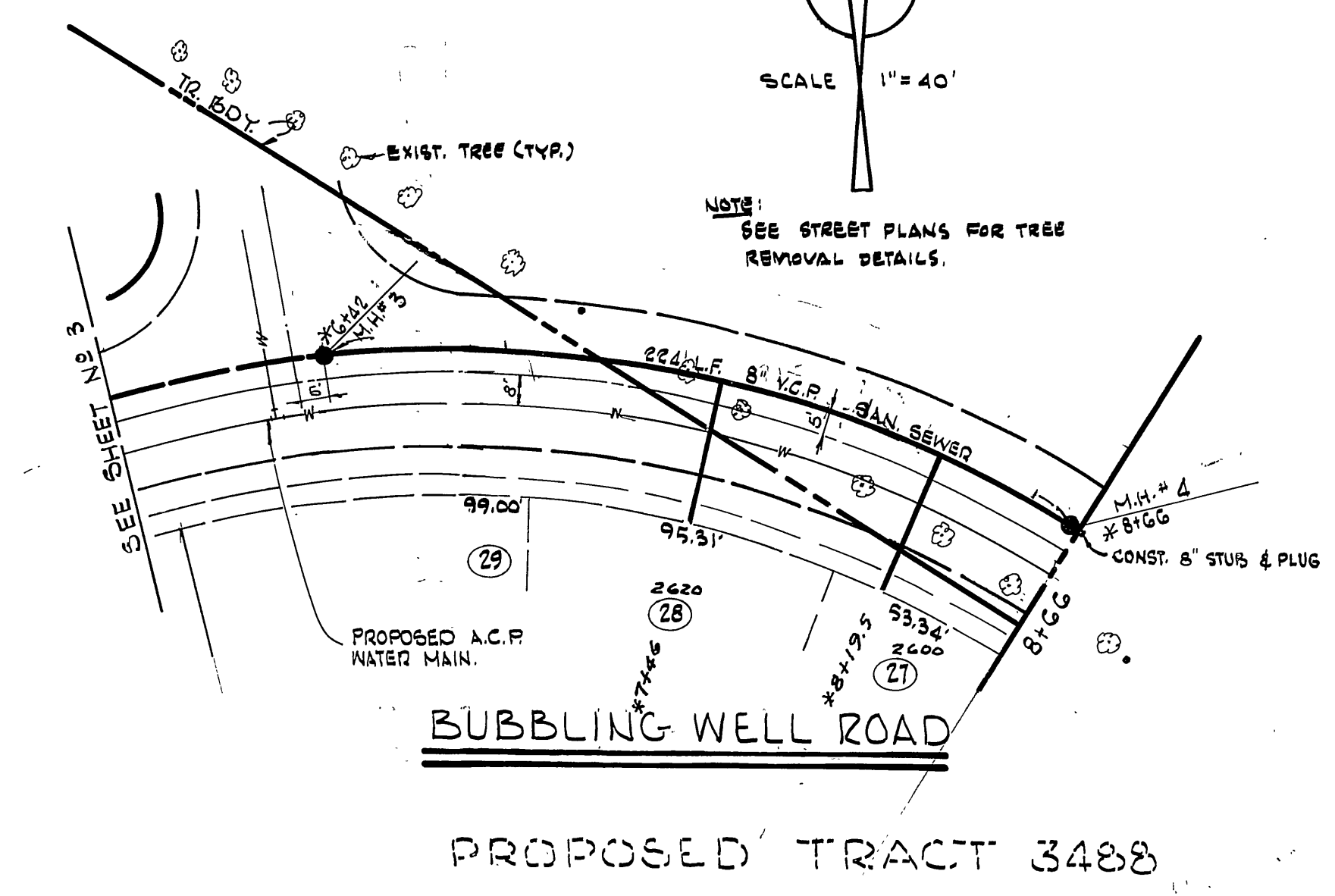
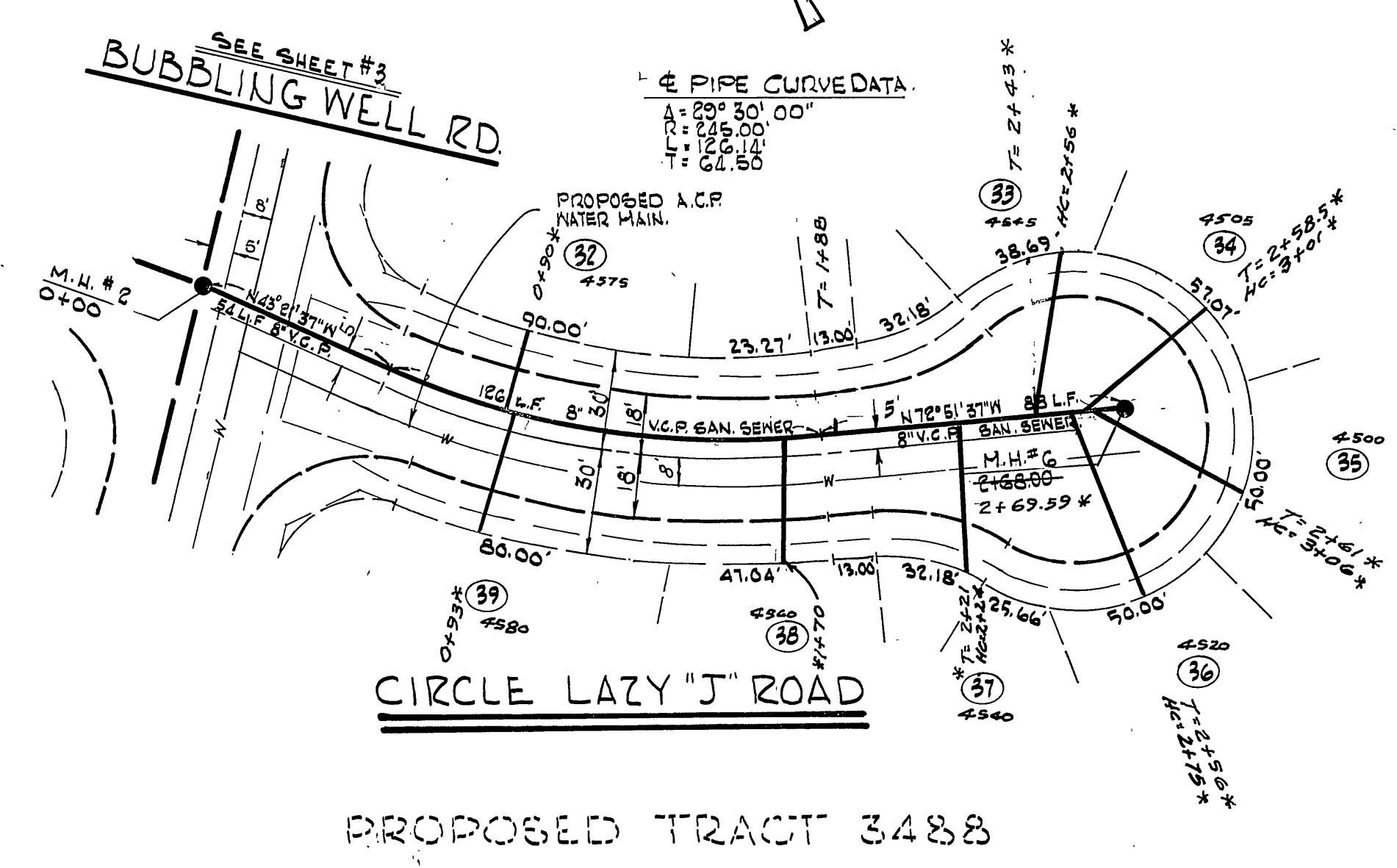
PROFILE SCALE
 HORIZ. 1" = 40'
 VERT. 1" = 4'

LEGEND

	PROPOSED PROPERTY LINE
	PROPOSED CURB LINE
	MANHOLE TO BE CONSTRUCTED
	SEWER LINE TO BE CONSTRUCTED



BENCH MARK:
 P.K. IN CURB NEAR P.P. #9342-J ON E.L.Y. SIDE
 DEXTER DRIVE APPROX. 125' ± S/LY AMERICAN
 LEGION BLDG. - PER CITY OF RIVERSIDE B.M.
 BOOK 127, PAGE 38, ELEV. 792.09



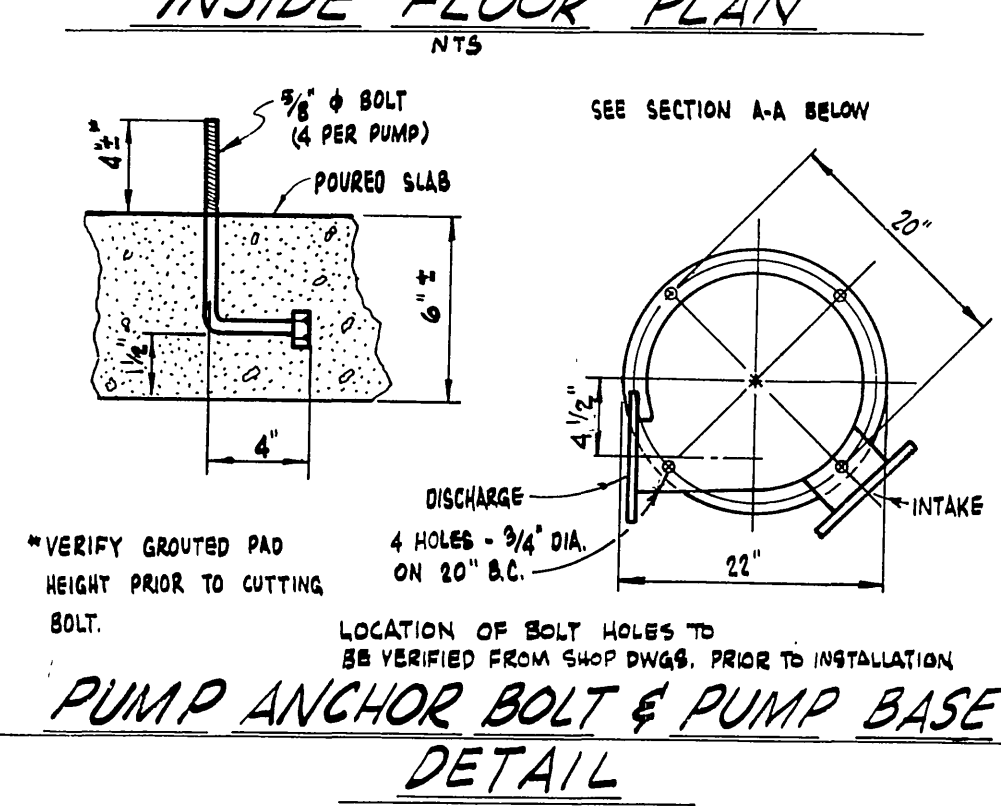
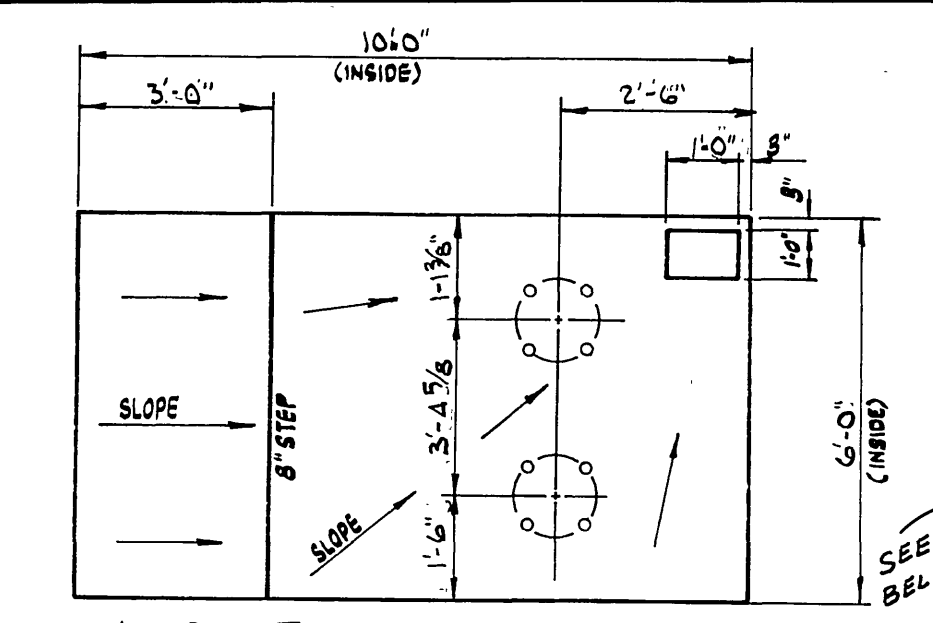
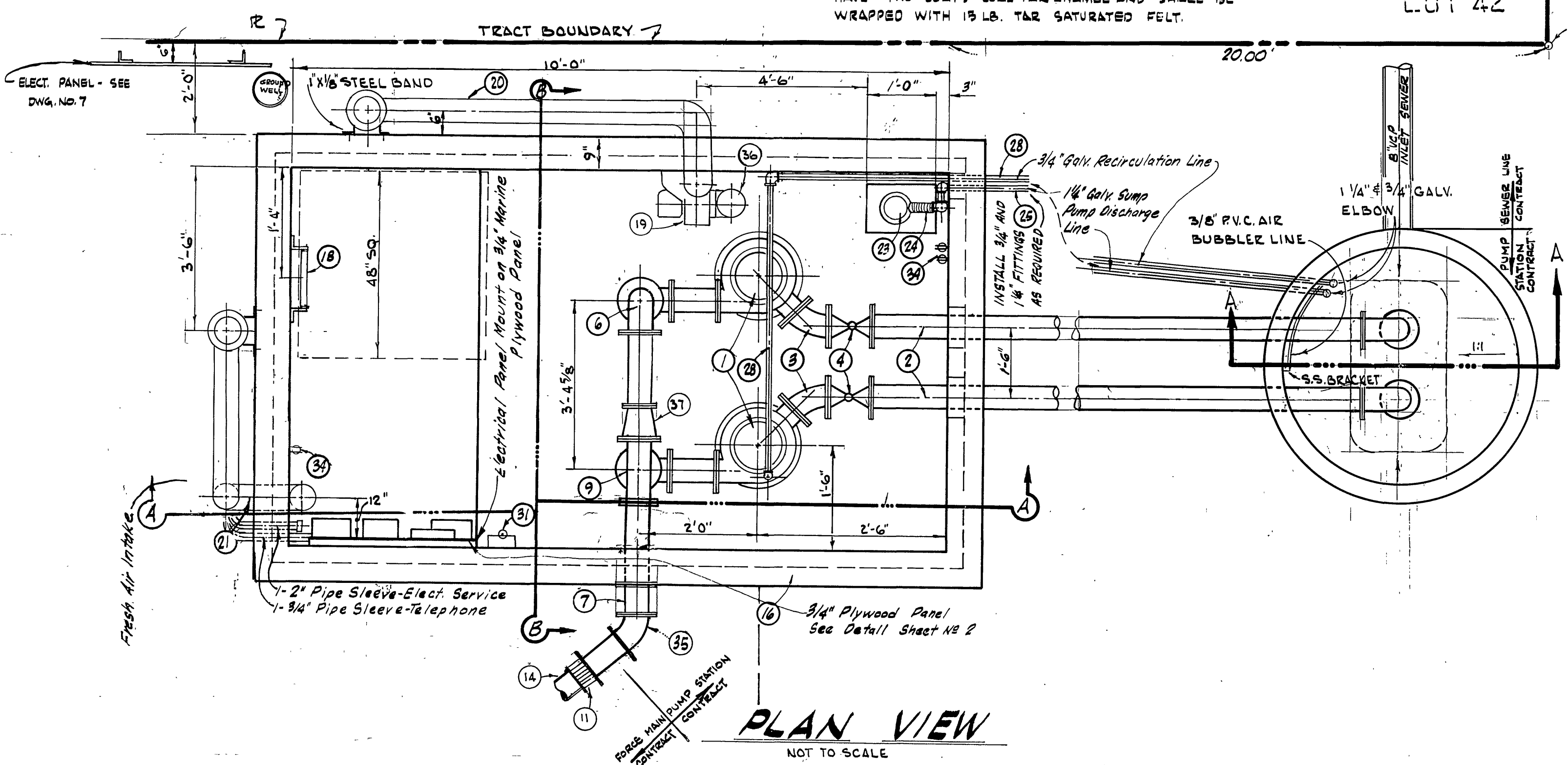
*AS BUILT 5-28-68 AS

PREPARED UNDER THE SUPERVISION OF
R.M. Galloway
 R.M. GALLOWAY R.C.E. 1400'S 10-21-67 DATE

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		CONSTRUCTION PLANS FOR CIRCLE LAZY "J" ROAD BUBBLING WELL ROAD - SEWER LINE TRACT 3488		PROJECT NO. 192-0100
APPROVED BY OFFICE ENGINEER PARK DEPARTMENT TRAFFIC DIVISION ASSISTANT CITY ENG.	BY DATE 10-24-67 10-24-67 10-24-67	APPROVED BY DIRECTOR OF PUBLIC WORKS	DATE 4-24-68	SHEET 5 OF 7
DESIGNED BY J.M.W. DRAWN BY J.Y. CHECKED BY [Signature]				FILE NO.

NOTE:
UNDERGROUND PORTION OF 6" GALV. STEEL PIPE SHALL HAVE TWO COATS COAL TAR ENAMEL AND SHALL BE WRAPPED WITH 15 LB. TAR SATURATED FELT.

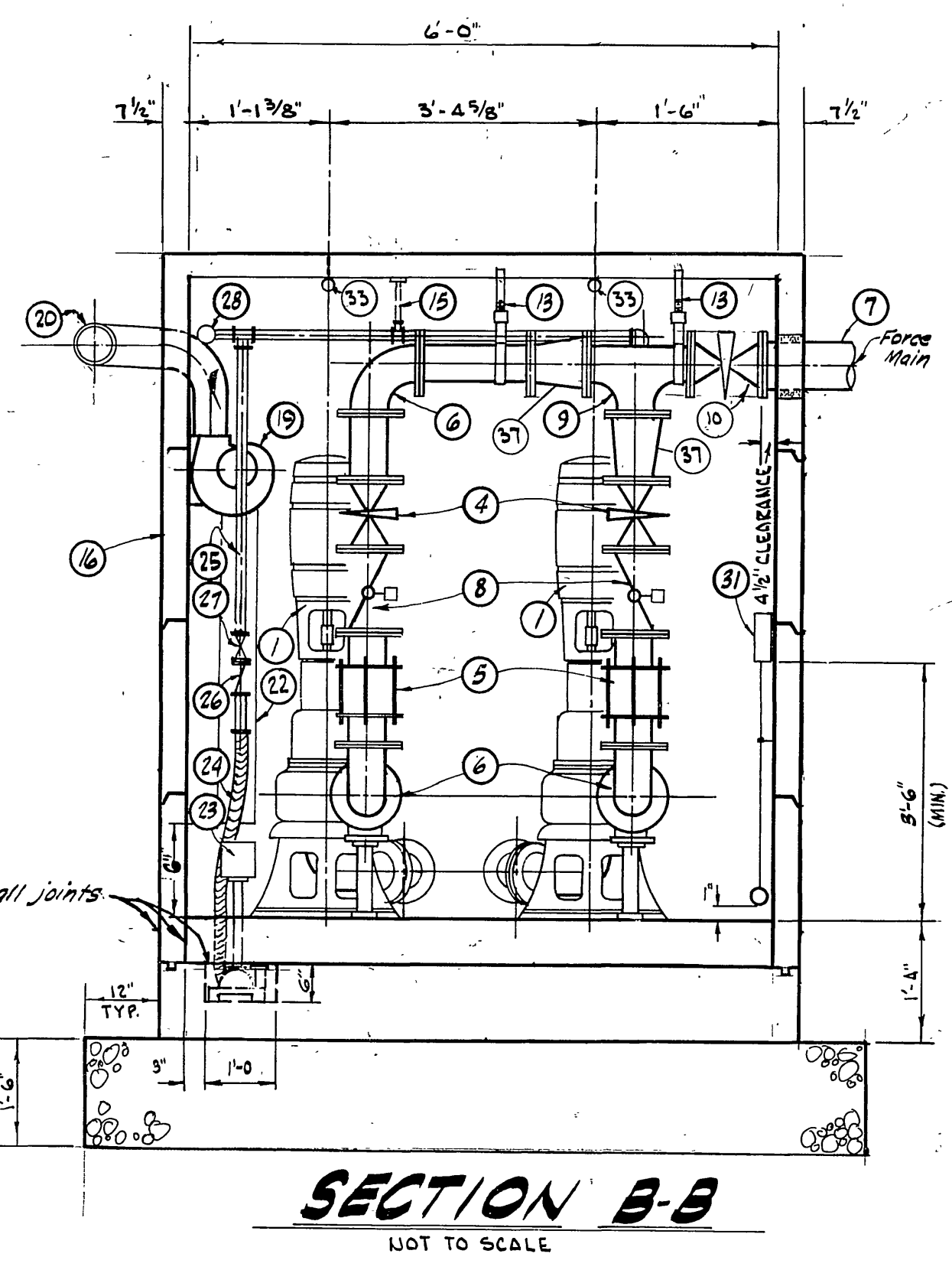
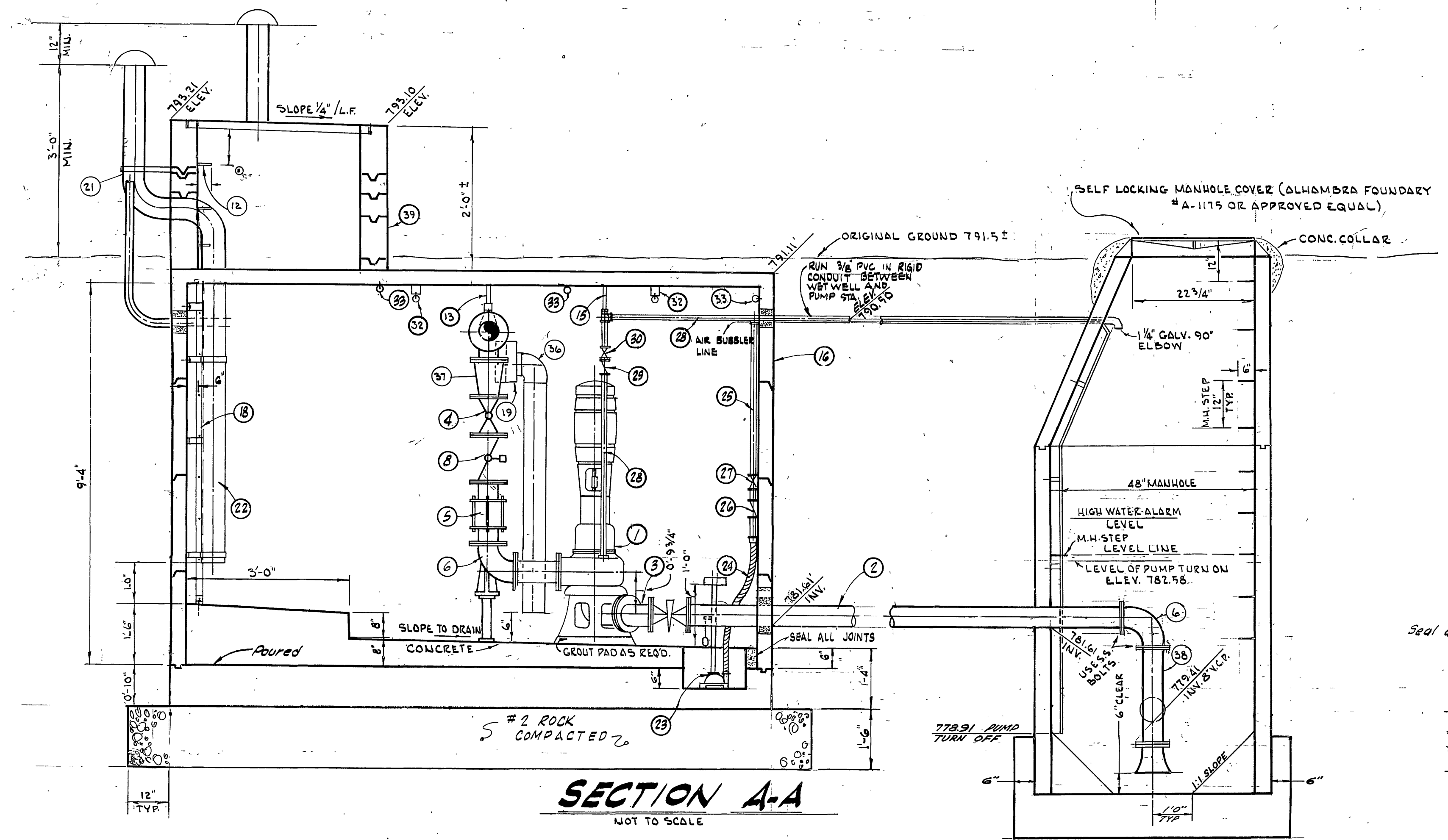
LOT 42 LOT 41
TRACT BOUNDARY TRACT CORNER



NOTE TO CONTRACTOR:

BRAND-NAMED EQUIPMENT SHOWN HEREON ASSURE STATION OPERATIONAL CHARACTERISTICS DESIRED. SUBSTITUTIONS MAY BE MADE SUBJECT TO APPROVAL OF THE CITY OF RIVERSIDE ENGINEERING DEPARTMENT AND THE ENGINEER. REQUESTS FOR SUBSTITUTIONS MUST BE MADE AT LEAST 10 (TEN) DAYS PRIOR TO THE PROPOSED DATE OF INSTALLATION.

EQUIPMENT SCHEDULE	
NO.	DESCRIPTION
1.	PUMPS: 2 PUMPS, 1/2 HP, 115 V, 1 PHASE, 1725 R.P.M. MOTOR TO PUMP 240 G.P.M. AT 120 V. D.H. 1725
2.	4" SUCTION PIPE: CAST IRON FLANGED, CLASS - 125#.
3.	4" - 45 DEGREE ELBOW: CAST IRON FLANGED, CLASS 125#.
4.	DE ZURIK FIG. 118 F.W. WORM GEAR ACTUATOR 66, H9, 55
5.	BUSHINGS: HI-NIHOLO ALLOY SEAT-NEOPRENE PLUG PADDING.
6.	FLEXIBLE COUPLING: DRESSER COUPLING STYLE #93.
7.	90 DEGREE ELBOW: CAST IRON FLANGED, CLASS - 125#.
8.	FORCE MAIN PIPE: CAST IRON FLANGED, CLASS - 125#.
9.	4" CHECK VALVE: CLASS-125# WITH OUTSIDE LEVER AND SPRING. RENSSELAER LIST 340 CLEARWAY SWING CHECK VALVE.
10.	6" DE ZURIK FIG. 118 F.W. WORM GEAR ACTUATOR 66, H9, 55
11.	6" PIPE ADAPTOR: SPECIAL - TO BE APPROVED BY THE ENGINEER.
12.	STEPS: EPISON CO. TYPE STEPS FOR VAULT, ALHAMBRA FOUNDRY A-9820.
13.	6" PIPE HANGER, CRANE
14.	6" FORCE MAIN:
15.	3/4" PIPE HANGER, CRANE
16.	VAULT: QUICK SET TRANSFORMER VAULT 6'X10' PV-604 I.D. HEIGHT 9'-6" (MODIFIED AS SHOWN) WITH STANDARD BASE.
17.	ACCESS DOOR: BILCO TYPE AD-2 DOUBLE LEAF GALV. W/#91160-A PADLOCK BOX.
18.	LADDER: ALHAMBRA FOUNDRY A-2382 GALV. STEEL WITH ADJUSTABLE BRACKETS AT LOWER END
19.	VENT FAN: T. E. X. P. BABY "C" VENT FAN W/BACKET "BUFFALO FORCE" 1/2 HP, 1725 R.P.M., 110 V, SINGLE PHASE, 60 CYC. W/AL NON-SPARKING WHEEL, RATED 410 C.F.M. @ 1/4" ST. PR.
20.	6" BLOWER EXHAUST PIPE: GALV. STEEL WITH WEATHER CAP.
21.	6" FRESH AIR VENT PIPE: GALV. STEEL WITH WEATHER CAP.
22.	6" FLEXIBLE TUBING: THERMAFLEX ST. FLEXIBLE TUBING ON SUCTION AND DISCHARGE OF VENT FAN. SUCTION 6" ABOVE FLOOR.
23.	SUMP PUMP: HYDR-O-MATIC MODEL C.P.-388 WITH WALL SUPPORT
24.	1-1/4" FLEX RUBBER HOSE W/SCREW FITTINGS, GOOD YEAR WING-FOOT.
25.	1-1/4" SUMP PUMP LINE & FITTINGS: GALV. IRON PIPE AND FITTINGS WITH UNION
26.	1-1/4" CHECK VALVE: BRONZE W/SCREW FITTINGS, CRANE.
27.	1-1/4" GATE VALVE: BRONZE W/SCREW FITTINGS, CRANE.
28.	3/4" RECIRCULATION LINE AND FITTINGS: GALV. IRON PIPE AND FITTINGS WITH UNION.
29.	3/4" CHECK VALVE: BRONZE W/SCREW FITTINGS, CRANE.
30.	3/4" GATE VALVE: BRONZE W/SCREW FITTINGS, CRANE.
31.	DRY WELL ALARM SWITCH: MERCOID TYPE 41WP SPEC. NO. 6104 W/COOPER BALL FLOAT, WALL GUIDE, AND STAINLESS STEEL ROD.
32.	LIGHTS: FLUORESCENT FIXTURE SMOOT HOLMAN #A-1484 W/1.40W. T 12-R5 LAMP.
33.	LIFTING EYE: RICHMOND THREADED INSERT WITH LIFTING EYE. RECEPTACLE: 120 V. DUPLEX POLARIZED RECEPTACLE (MIN. 48" ABOVE THE FLOOR). (GROUNDING TYPE) 20 AMP.
34.	VAULT NECKING: QUICKSET DWG. NO. PVN 4848 MODIFIED FOR BILCO ACCESS HATCH AS SHOWN.
35.	6" - 45 DEGREE ELBOW: CAST IRON FLANGED, CLASS 125#
36.	6"x6" - SHEET METAL ELBOW (GALV)
37.	6"x4" REDUCER CLASS 125#
38.	4" FLANGE & FLARE FITTING WITH 5.S. BOLTS.
39.	VAULT NECKING: QUICKSET DWG. NO. PVN 4848 MODIFIED FOR BILCO ACCESS HATCH AS SHOWN.
40.	RISSING STEM GATE VALVE WITH BRONZE SEATS.



- ### GENERAL NOTES
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS DATED JULY, 1964, THE CITY OF RIVERSIDE STANDARDS WHERE APPLICABLE; AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
 - THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND BUILDING DEPARTMENT AT LEAST 24 HOURS BEFORE STARTING ANY PHASE OF CONSTRUCTION AND SHALL FURNISH THE CITY ENGINEER THE NAME AND PHONE NUMBER OF PERSONS TO BE CONTACTED IN THE EVENT OF PROBLEMS OR QUESTIONS.
 - THE PUMPING EQUIPMENT MANUFACTURER'S REPRESENTATIVE SHALL SUPERVISE THE INSTALLATION, STARTING AND TESTING OF THE EQUIPMENT.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SECURE PLANS APPROVED BY THE DIRECTOR OF PUBLIC WORKS PRIOR TO STARTING ANY CONSTRUCTION.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES IN THE FIELD.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EXERCISE PROPER PRECAUTION TO AVOID DAMAGE TO ANY EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
 - THE CONTRACTOR SHALL FURNISH 2 COPIES OF THE SHOP DRAWINGS OF THE SEWAGE PUMP STATION PIPING AND FITTINGS, EQUIPMENT DATA, OPERATIONAL PROCEDURE, AND WIRING DIAGRAMS TO THE ENGINEER PRIOR TO CONSTRUCTION.
 - ALL WORK AND MATERIALS SHALL BE GUARANTEED FOR NOT LESS THAN 1 YEAR AFTER ACCEPTANCE REGARDLESS OF METHOD USED, BACKFILL SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY.
 - THE CONTRACTOR SHALL WATERPROOF ALL PIPE JOINTS.
 - ALL CONSTRUCTION JOINTS ARE TO BE MADE WATERPROOF WITH JOINT MATERIAL RECOMMENDED BY MANUFACTURER, WRAPPING JOINTS WITH CORROSION CONTROL TAPE AND CLEANING AND FINISHING JOINTS INSIDE WITH RICH ADOUR. THERE SHALL BE NO TRACE OF WATER LEAKS INTO THE PUMP STATION UPON COMPLETION OF THE PROJECT.
 - ALL RUNS OF PIPE SHALL HAVE A MINIMUM OF 24" OF COVER AND WHERE ONE PIPE PARALLELS ANOTHER THE TWO PIPES SHALL BE RUN AS CLOSE TOGETHER AS IS POSSIBLE.
 - ALL EXPOSED METAL WITHIN THE PUMP STATION EXCEPT THAT WHICH IS GALVANIZED SHALL BE PAINTED COAST GUARD GRAY AFTER INSTALLATION. PAINTING SHALL INCLUDE ONE COAT OF EACH OF THE FOLLOWING: a) PRIMER-RUSTMASTER Y526, 500 SQ. FT./GAL. 1.5 MIL. THICKNESS. b) UNDERCOAT-RUSTMASTER Y5221, 250 SQ. FT./GAL. 2.0 MIL. THICKNESS. c) FINISHCOAT-RUSTMASTER Y5226, 250 SQ. FT./GAL. 2.0 MIL. THICKNESS.
 - ALL FITTINGS AND PLUG VALVES SHALL BE FLANGED CLASS 125# CAST IRON UNLESS OTHERWISE CALLED FOR ON THE PLANS.
 - ALL BLOCKOUTS SHALL BE GROUTED AFTER EQUIPMENT IS INSTALLED AND SHALL BE WATERTIGHT.
 - ALL REINFORCING STEEL SHALL BE A.S.T.M. A-15 DEFORMED.

PREPARED UNDER THE SUPERVISION OF
R. M. Galloway
R.M. GALLOWAY RCE 14063

R. M. Galloway & Associates Inc.
CIVIL ENGINEERS & PLANNERS
LAND AND MINERAL SURVEYORS
504 North Newport Blvd., Newport Beach, California 92660, Tel: (714) 642-3010 & 546-3692
Suite 103 Pioneer Bank Bldg. P.O. Box 2204 Prescott, Arizona 86301 Tel: (602) 445-4477

1. REV. STA. ELEV FOR GROUND WATER PROB.	4-18-68
2. REV. FOR CITY REQS.	4-18-68
3. AS BUILT	JMM 12-20-68
4. REV. OF PUMPS TO VAUGHAN P366	DRG 7-10-75

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: [Signature]
DATE: 7-16-75
DIRECTOR OF PUBLIC WORKS
INCLUDING REV. 10-1-72

CONSTRUCTION PLANS
FOR
SEWER PUMP STATION
TRACT 3488
PROJECT NO. 192-0120
S-716
SHEET 6 OF 7
HORIZ. SCALE: 1/2" = 1'-0"
VERT. SCALE: 1" = 1'-0"
FILE NO.

ELECTRICAL SCHEDULE

ALL NUMBERS "SQUARE D" UNLESS NOTED

1	DELETED
2	METER CAN -
3	MAIN DISCONNECT -
4	PRESSURE CONTROL SWITCH: AMW 1, DIAPHRAGM SP, ST, ADJUSTABLE
5	MOTOR STARTERS - SIZE I, CLASS B940 COMB. STARTER & CS. WITH H.O.A. SWITCH - NEMA III ENCLOSURE, 20AMP, QCC-2
6	ON-OFF SWITCH TO DE-ENERGIZE 20A PLUG FOR SUMP PUMP
7	TORISION-AIRE COMPRESSOR, 3 CU. FT./HR @ 6 PSI
8	SINGLE PHASE LOAD CENTER QO G S ENCLD. WITH COVER, USE TYPE QOCS. INDICATE CIRCUIT NOS. AND FUNCTION ON PANEL DIRECTORY (3) 1/P SPARES.
9	2-CIRCUIT ALTERNATOR HEALY-RUFF, AUTO-TRCL, NR7, 220V, 60 CYCLE.
10	"MERCODID" TYPE 61 WP, SPEC. #B104, WITH COPPER BALL FLOAT AND S.S. ROD HIGH LEVEL ALARM, DRY WELL.

ELECTRICAL NOTES

ELECTRICAL INSTALLATIONS TO MEET REQUIREMENTS OF THE STATE OF CALIFORNIA AND LOCAL APPLICABLE CODES.

THE CONTRACTOR SHALL CONTACT AND MAKE ARRANGEMENTS WITH THE CITY OF RIVERSIDE, UTILITIES DEPARTMENT FOR POWER SERVICE.

THE CONTRACTOR SHALL VAPOR-PROOF ALL ELECTRICAL CONDUITS.

ALL OVERLOAD PROTECTION FOR ELECTRICAL EQUIPMENT SHALL BE PROVIDED THROUGH CIRCUIT BREAKERS.

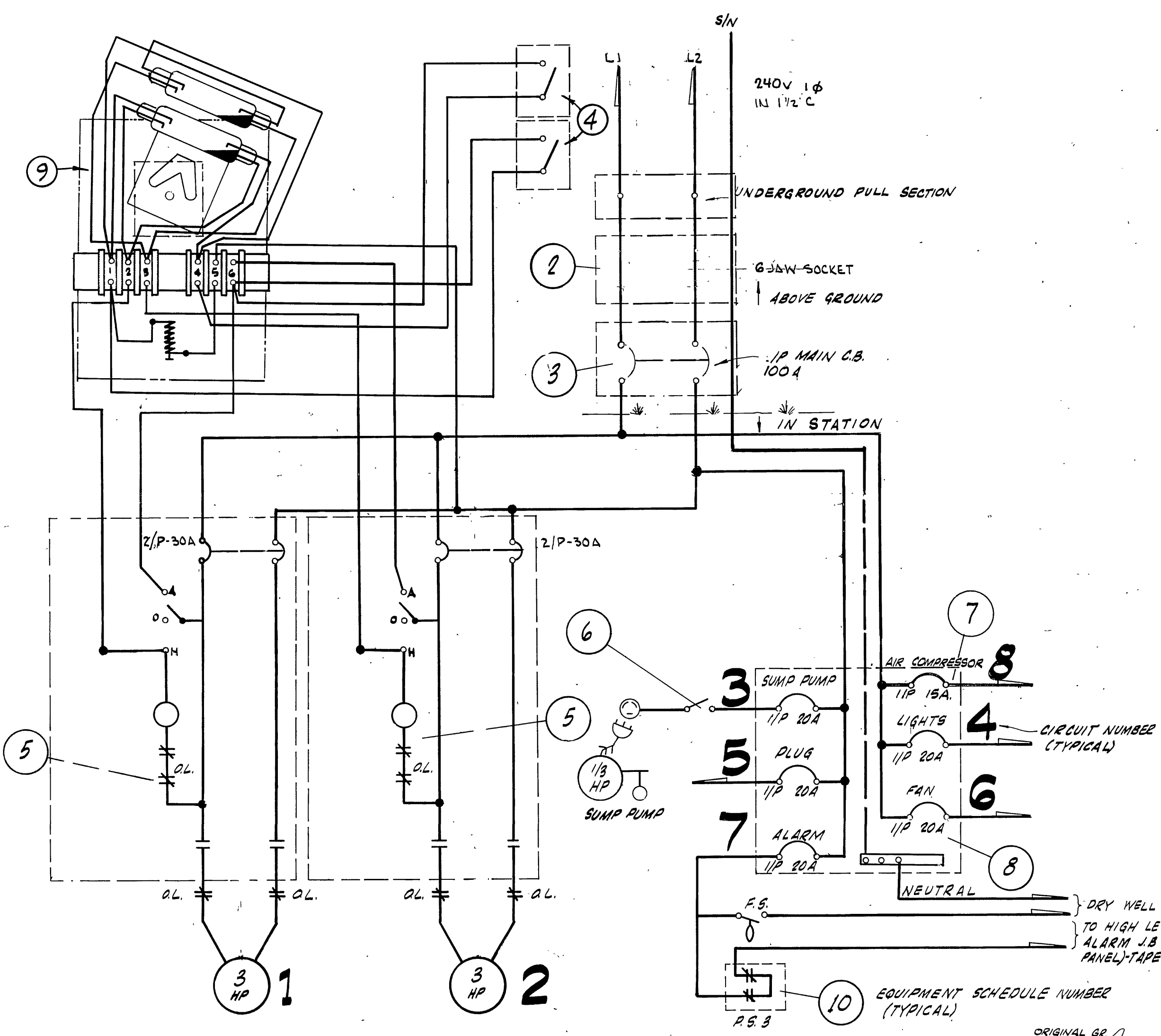
ELECTRICAL CONDUIT TO BE UNDERGROUND FROM SERVICE PANEL TO PUMP STATION.

MADE GROUNDS SHALL BE CONSTRUCTED AS SHOWN ON PLANS. RESISTANCE TO GROUND SHALL NOT EXCEED 5 OHMS. ELECTRICAL CONTRACTOR SHALL RUN A #8 BARE COPPER M.H.D. GROUND WIRE AND ATTACH AS PER CODE TO ALL METAL PIPING, PUMP PLATES AND STEPS.

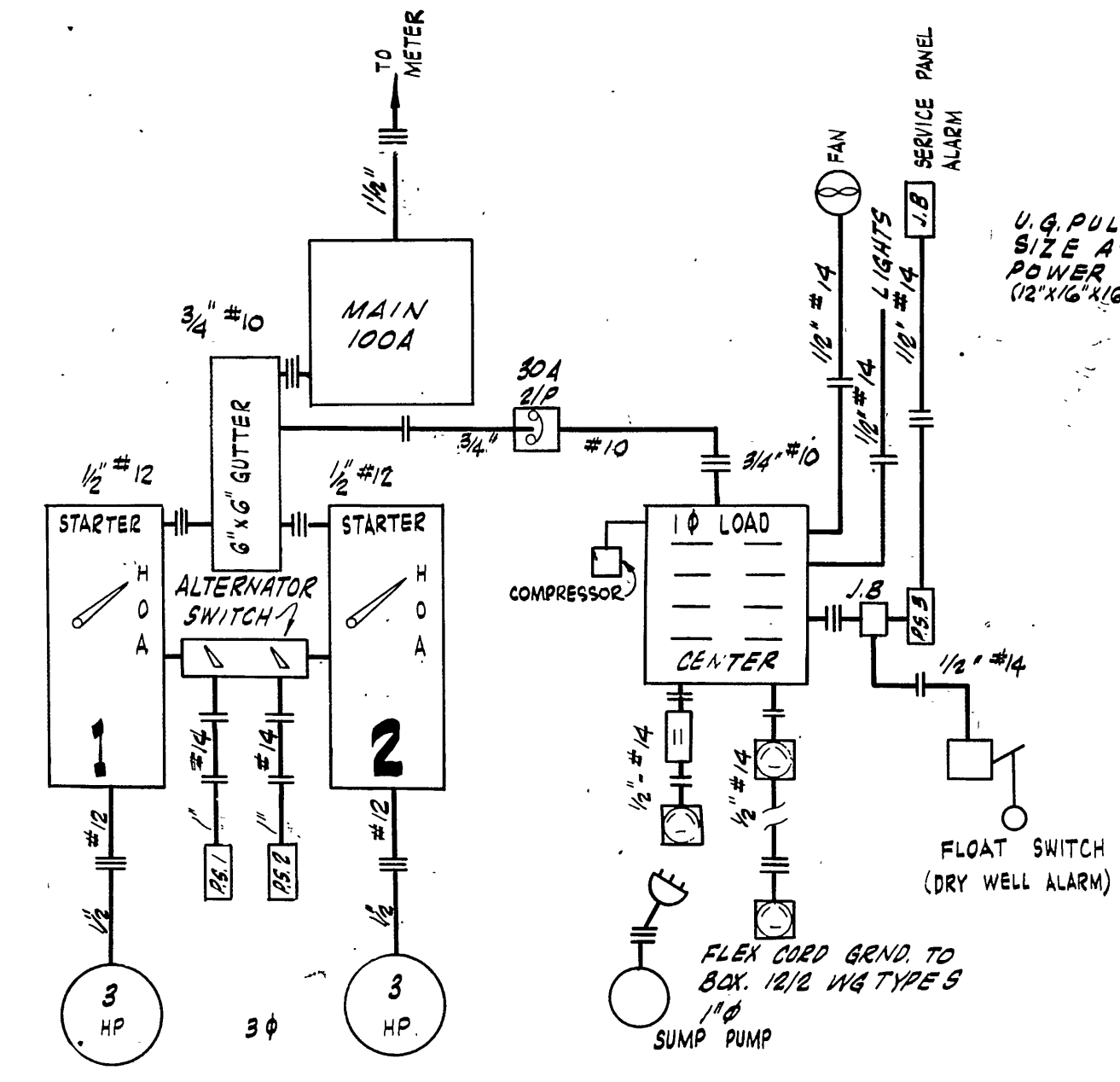
ALL WORK AND MATERIALS TO BE GUARANTEED FOR NOT LESS THAN 1 YEAR.

ALL ELECTRICAL CONDUIT FROM SERVICE PANEL TO EQUIPMENT SHALL BE RUN ALONG THE WALL TO THE CLOSEST POINT TO THE EQUIPMENT IN SUCH A MANNER THAT IT WILL NOT INTERFERE WITH OPERATION OR MAINTENANCE OF EQUIPMENT.

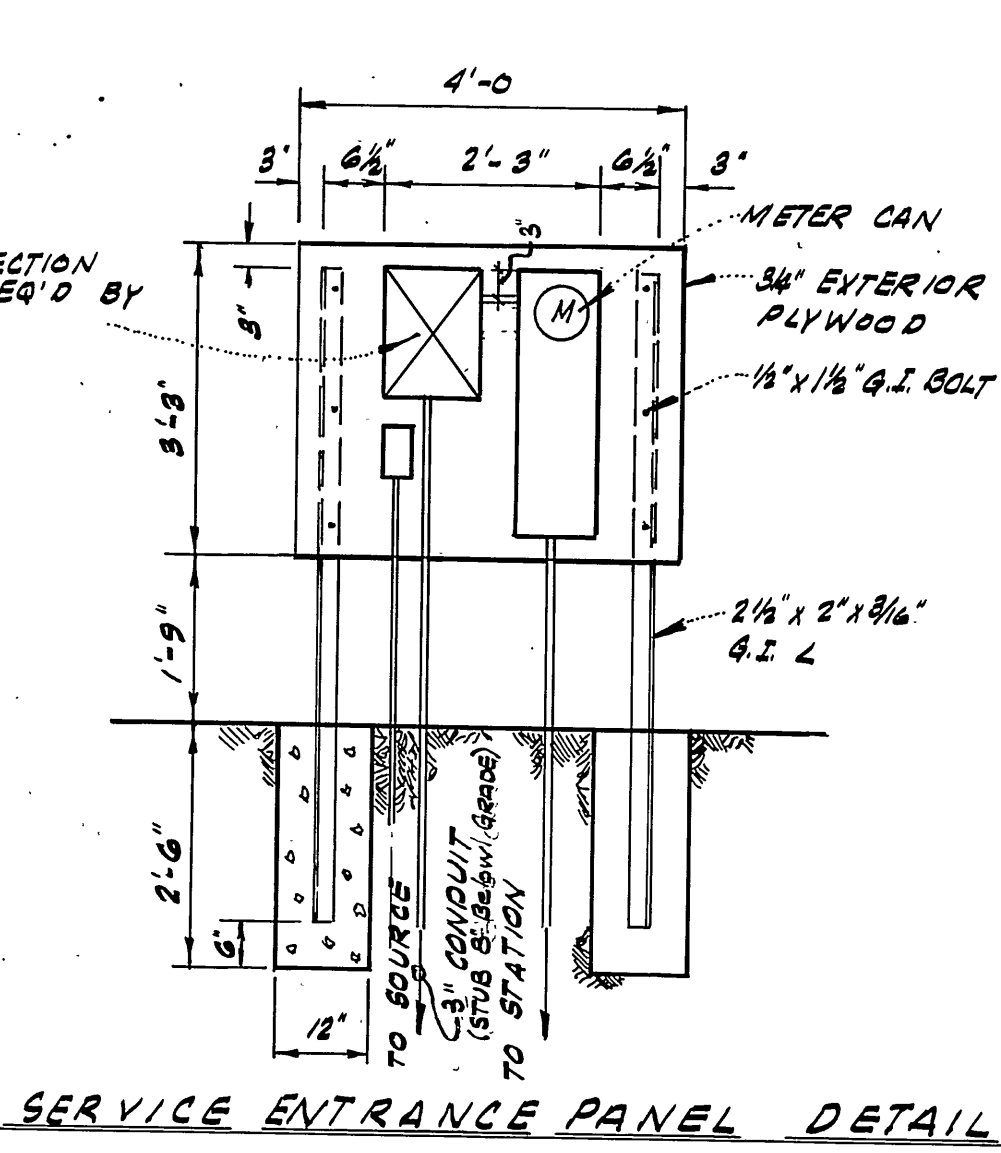
ALL ELECTRICAL TO BE WEATHER-PROOF



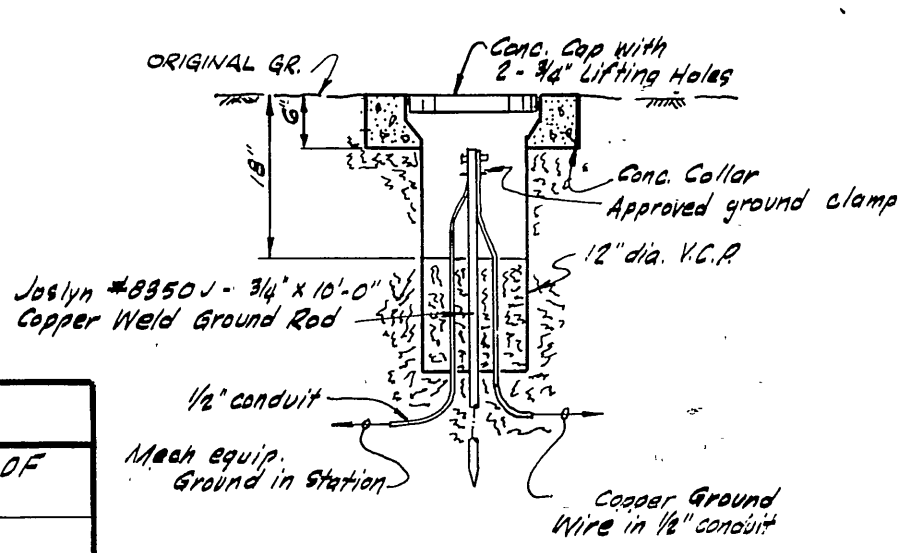
DISTRIBUTION SCHEMATIC



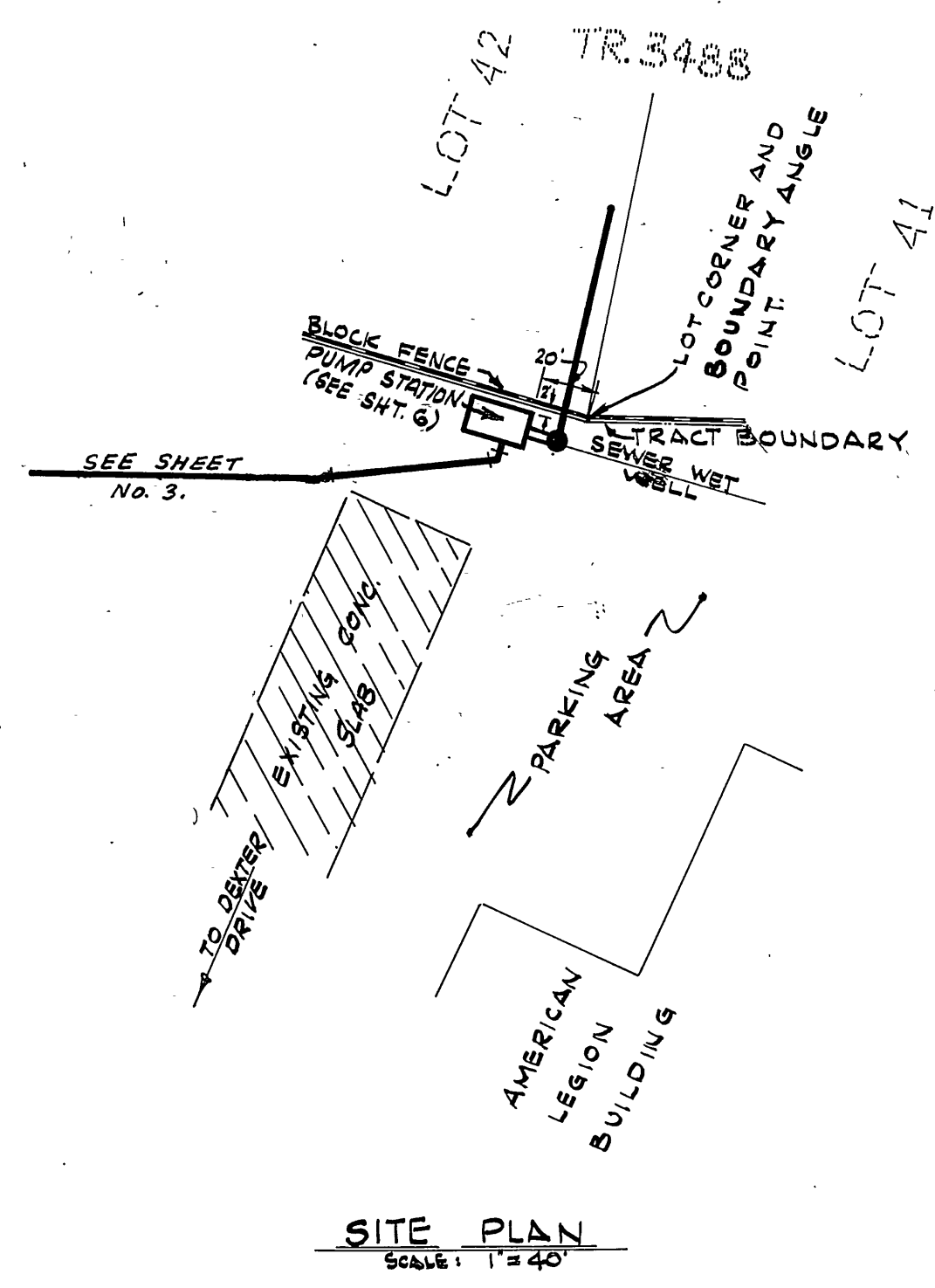
SINGLE LINE SCHEMATIC



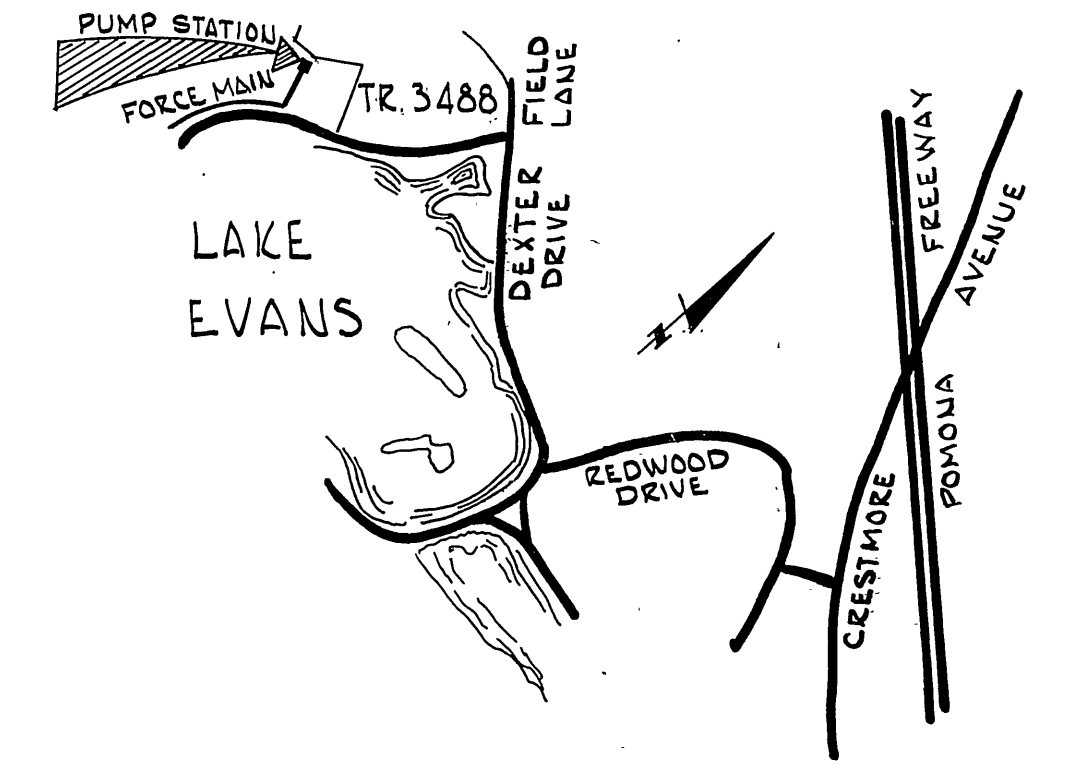
SERVICE ENTRANCE PANEL DETAIL



GROUND WELL DETAIL
NO SCALE



SITE PLAN
SCALE: 1" = 40'



VICINITY MAP
N.T.S.

SYMBOLS

RS - PRESSURE SWITCH	— — - NORMALLY CLOSED CONTACTS	— — - CONDUIT RUN, NUMBER OF WIRES SHOWN.
FS - FLOAT SWITCH	— — - THERMAL OVERLOAD	(M) - WATT-HOUR METER
2/P - 2 POLE	⊙ - 3 POLE RECEPTACLE	⊕ - GROUND TO BOX
3/P - 3 POLE	⊕ - 3 POLE PLUG	⊙ - COIL
— — - CIRCUIT BREAKER	— — - FLOAT SWITCH 2/P LIQUID, 2/PSE CLOSES	
— — - NORMALLY OPEN CONTACTS	— — - FLEXIBLE CODE, NUMBER OF WIRES SHOWN.	

LOAD TABLE

CIRCUIT	VOLTS	NO. OUT-LETS	WATTS PER OUTLET	LOAD IN WATTS	LOAD IN AMPS	WIRE SIZE	AMPS BRKR. RATING	DESCRIPTION	REMARKS/SPECIAL CONTROLS
1	240V 1φ	1	3 HP	17	#12	30A	30A	HEALY-RUFF PUMP - MODEL EHP - SEE SHEET 6 FOR PUMP TYPE	MAN-OFF-AUTOMATIC SELECTOR IN STARTER PANEL - INTERCHANGEABLE TO OPERATE FROM RS.1 OR RS.2 IN AUTO POSITION.
2	240V 1φ	1	3 HP	17	#12	30A	30A	HEALY-RUFF PUMP - MODEL EHP - SEE SHEET 6 FOR PUMP TYPE	MAN-OFF-AUTOMATIC SELECTOR IN STARTER PANEL - INTERCHANGEABLE TO OPERATE FROM RS.1 OR RS.2 IN AUTO POSITION.
3	120V 1φ	1	250	250	#14	15A	15A	HYDR-O-MATIC - CP 885 SUMP PUMP - 1/2 HP. NEMA 4.	MANUAL STOP-START SWITCH FLOAT SWITCH
4	120V 1φ	2	75	150	#14	20	20	VAPOR PROOF FIXTURE	SMOOT-HOLMAN # A-4688 WITH 1-40W T12S LAMP
5	120V 1φ	2	200	400	#14	20	20	"HUBBELL" # 8982 RECEPTACLES	NONE
6	120V 1φ	1	125	125	#14	20	20	EXHAUST BLOWER 1/2 HP - 410 G.F.M.	TO RUN CONTINUOUS
7	120V 1φ	1	200	200	#14	20	20	HIGH LEVEL & DRY WELL ALARMS.	RS 3 WITH (8) NORMALLY CLOSED CONTACTS & FLOAT SWITCH IN DRY WELL.
8	120V 1φ	1	9	9	#14	15	15	AIR COMPRESSOR	TO RUN CONTINUOUS

TOTAL 1φ LOAD = 227 KW.

PREPARED UNDER THE SUPERVISION OF
R. M. Galloway
 R. M. GALLOWAY RCB 14063 4.22.68 DATE

R. M. Galloway & Associates Inc.
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1	REV. SERV. ENT. PANEL PER PU. DEPT.	3/77
2	REV. FOR 220V. 1φ PER PU. DEPT.	3/78
3	AS BUILT	JMM 12-10-68

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY: *[Signature]* DATE: 6-4-68
 OFFICE ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 ASSISTANT CITY ENGINEER

SEWER PUMP STATION FOR TRACT 3488

ELECTRICAL DETAILS

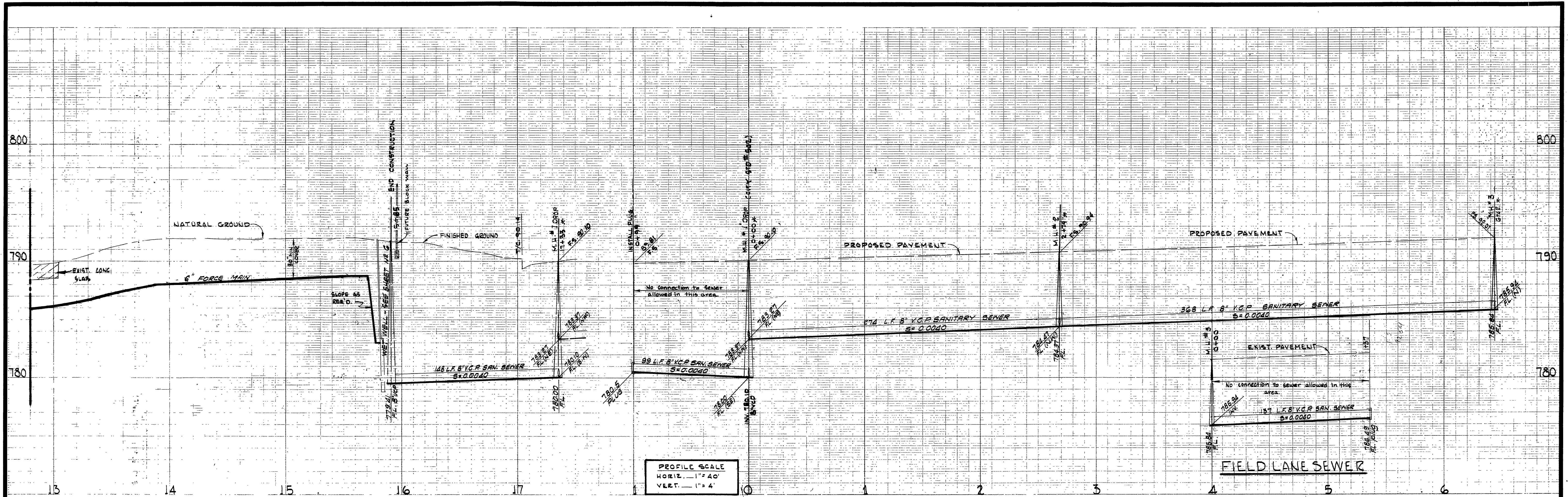
HORIZ. SCALE: 1" = 10' - VERT. SCALE: 1" = 10'

PROJECT NO. 192-0120

5716

SHEET 7 OF 7

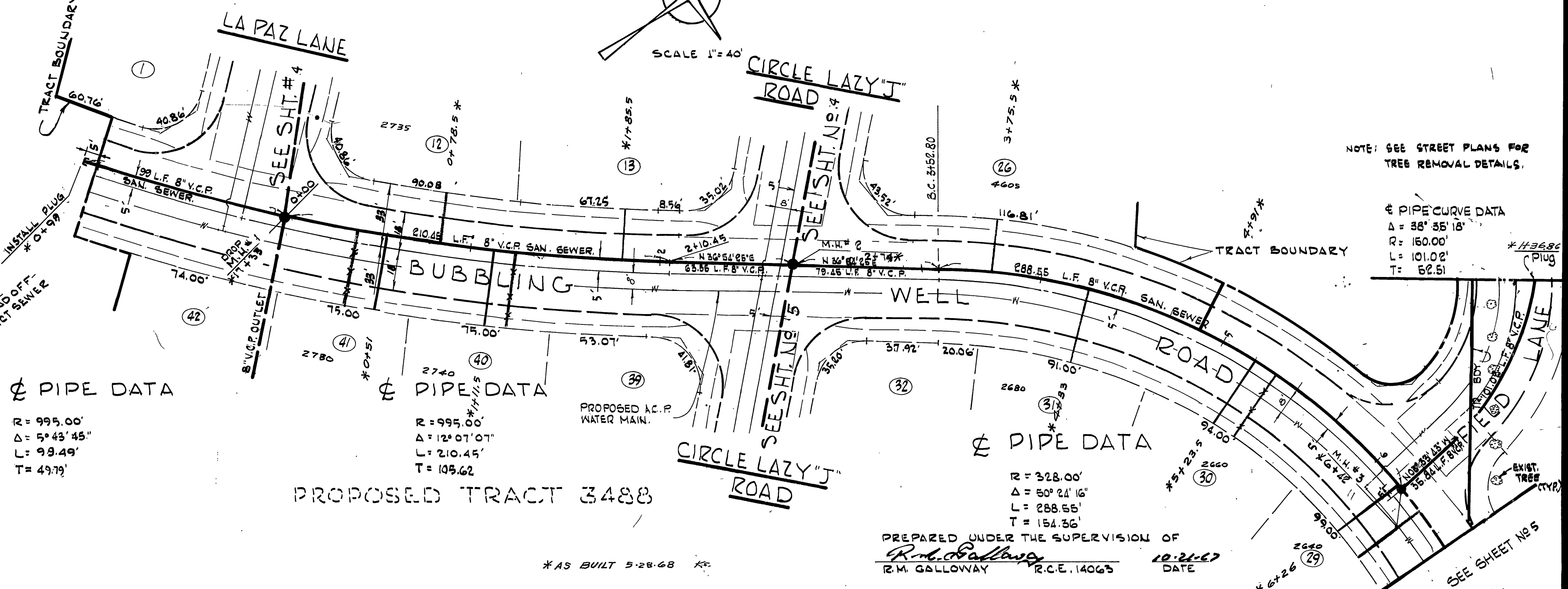
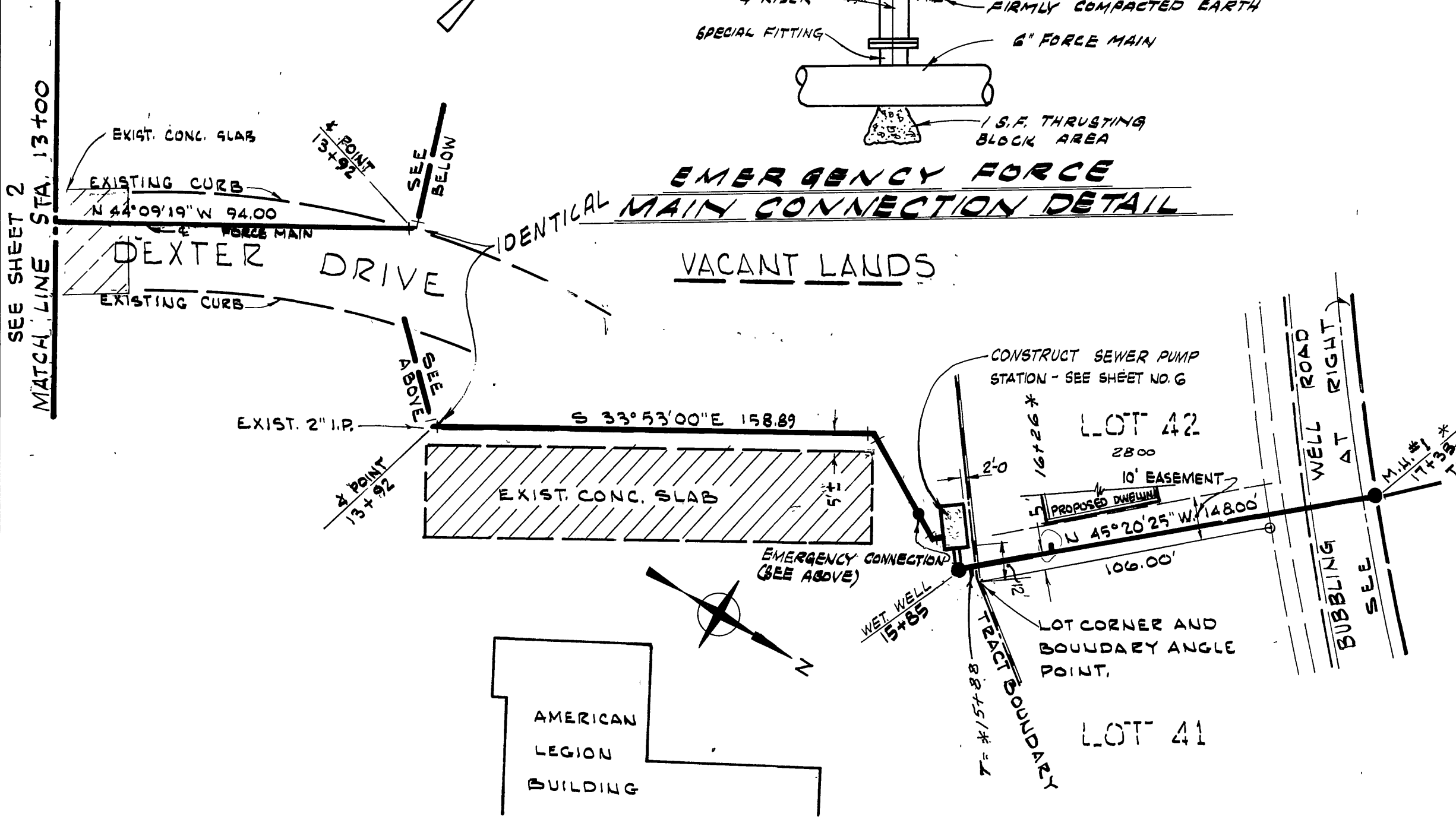
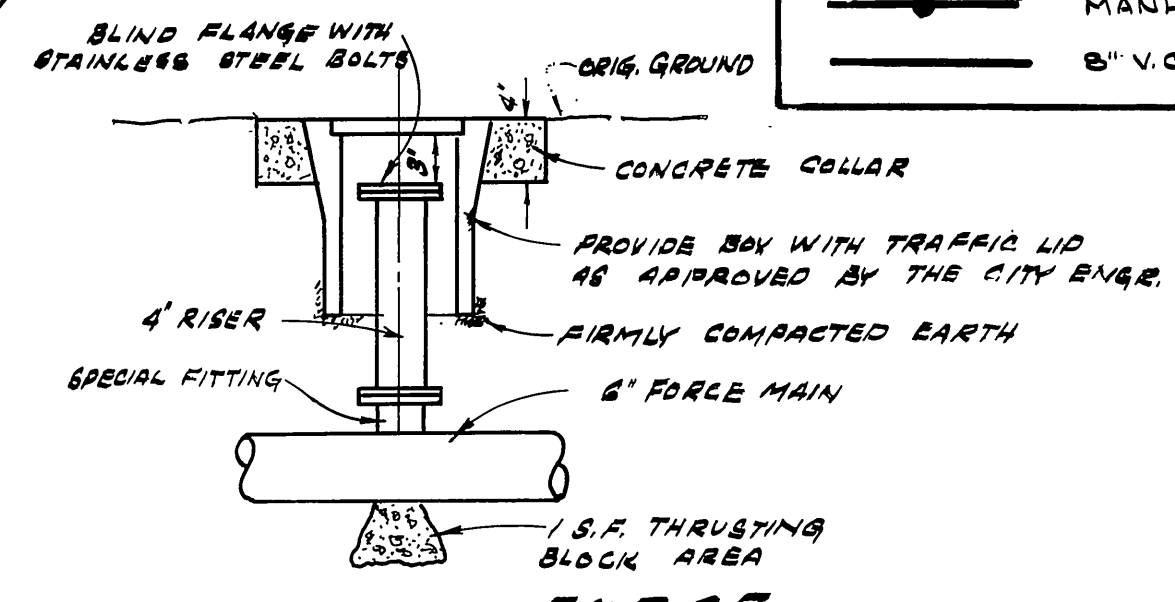
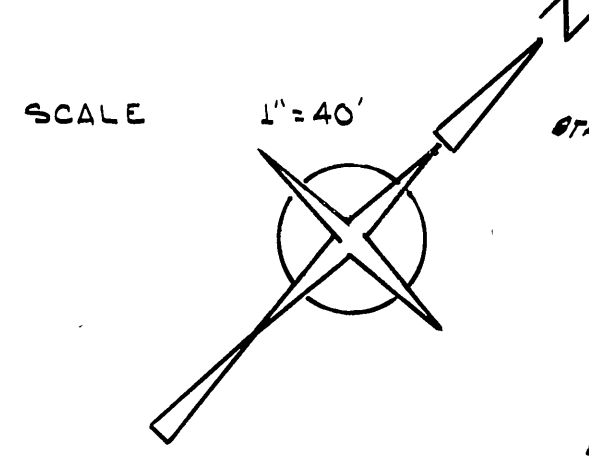
FILE NO.



LEGEND

- PROPOSED PROPERTY LINE
- PROPOSED CURB
- MANHOLE TO BE CONSTRUCTED
- 8" V.C.P. SEWER LINE TO BE CONSTRUCTED

BENCH MARK:
 PK IN CURB NEAR PP #9342-J ON EASTERLY SIDE
 DEXTER DRIVE APPROX. 125' S'LY AMERICAN LEGION
 BLDG. - PER CITY OF RIVERSIDE B.M. BOOK 727,
 PAGE 38. ELEV. 792.09



PIPE DATA

R = 995.00'
 Δ = 5°43'45"
 L = 99.49'
 T = 49.79'

PIPE DATA

R = 995.00'
 Δ = 12°01'01"
 L = 210.45'
 T = 105.62'

PIPE DATA

R = 328.00'
 Δ = 50°24'16"
 L = 288.55'
 T = 154.36'

PREPARED UNDER THE SUPERVISION OF
R.M. Galloway
 R.M. GALLOWAY R.C.E. 14065
 10-21-67
 DATE

NOTE:
 CONSTRUCTION SURVEYORS SHALL REFERENCE
 2" I.P. AND 2" X 2" HUB.

APPROVED FOR CONSTRUCTION WITHIN TRACT BOUNDARY	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		CONSTRUCTION PLANS FOR DEXTER DRIVE & BUBBLING WELL ROAD - SEWER LINE TRACT 3488	PROJECT NO. 192-0100
APPROVED BY <i>J. Martinez</i> DIRECTOR OF PUBLIC WORKS	APPROVED BY <i>[Signature]</i> OFFICE ENGINEER	BY DATE <i>[Signature]</i> TRAFFIC DIVISION	APPROVED BY <i>[Signature]</i> DIRECTOR OF PUBLIC WORKS	5-716
DESIGNED BY J.M.W. DRAWN BY J.Y. CHECKED BY <i>[Signature]</i>	REVISIONS	APPR. DATE	DATE	SHEET 3-A OF 7
HORIZ. SCALE: 1" = 40'			VERT. SCALE: 1" = 4'	
FILE NO.			FILE NO.	