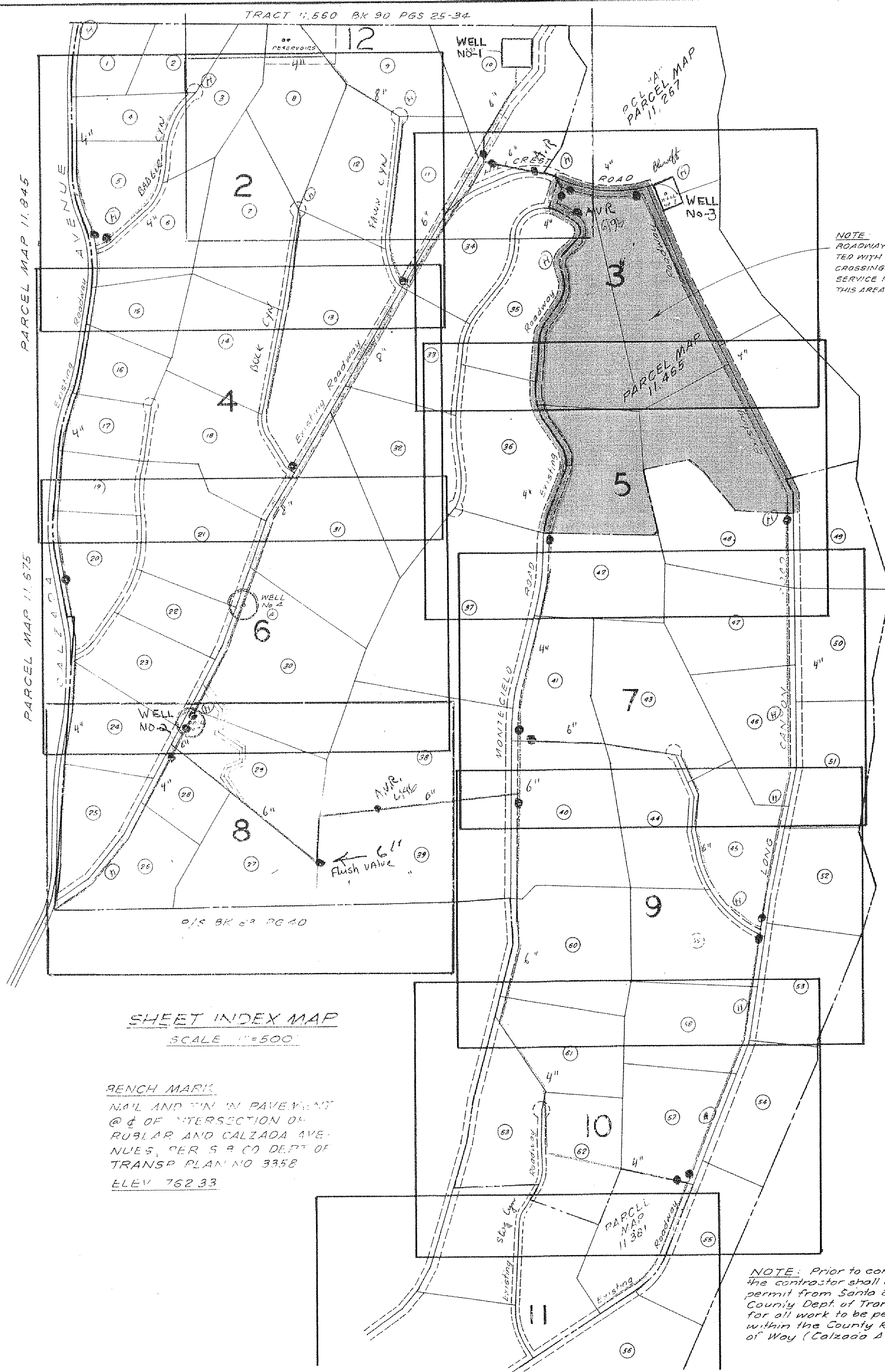
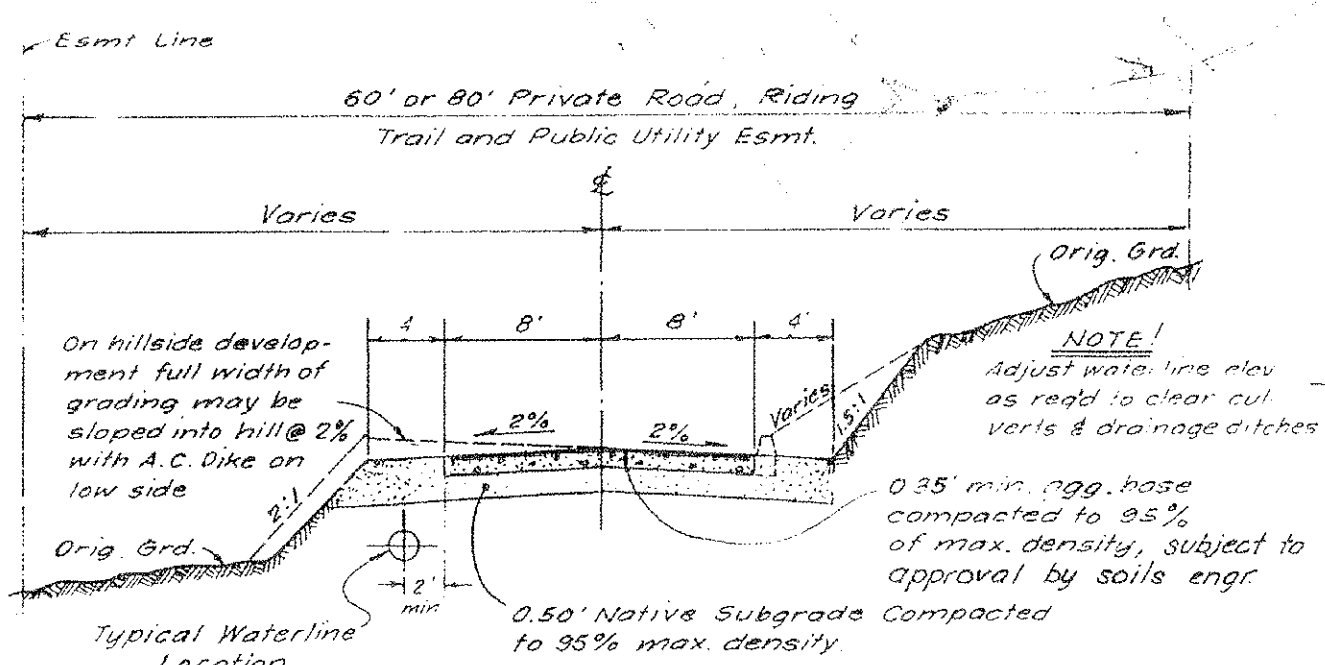




SHEET INDEX MAP
SCALE 1"=500'

BENCH MARK
NAIL AND PIN IN PAVEMENT
@ 4' OF INTERSECTION OF
ROBLAR AND CALZADA AVENUES,
PER S.B. CO. DEPT. OF
TRANSP. PLAN NO. 3358
ELEV. 762.33

NOTE: Prior to construction
the contractor shall obtain a
permit from Santa Barbara
County Dept. of Transportation
for all work to be performed
within the County Road Right
of Way (Calzada Avenue)



**TYPICAL SECTION
PRIVATE ROAD**

STRUCTURAL SECTION

0.35' minimum of Aggregate Base over
0.50' min. of native subgrade, compacted to
95% of maximum density

SURFACING

Apply bituminous prime coat to aggregate base
course at the rate of 0.35 gallons per sq. yd. of
SC 70 or MC 70 bituminous binder, followed by a
medium chip seal coat consisting of 0.35 gallons
per sq. yd. of CRS 2 emulsion and 25 lbs. of 3/8" #6
screenings consisting of crushed stone or broken
gravel per sq. yd. in accordance with current
Standard Specifications of the Calif. Div. of Hwys.
Surfacing shall be 0.20' min. A.C. Paving where noted
[on Plans]

ALIGNMENT

Contractor shall construct roads to meander thru
existing trees and shall protect root structures
and limbs. Contractor shall adjust grade line of
roadway to prevent ponding and erosion prob-
lems. Contractor shall maintain drainage away
from pavement and shoulder area in all areas
receiving armor coat (chip seal) paving

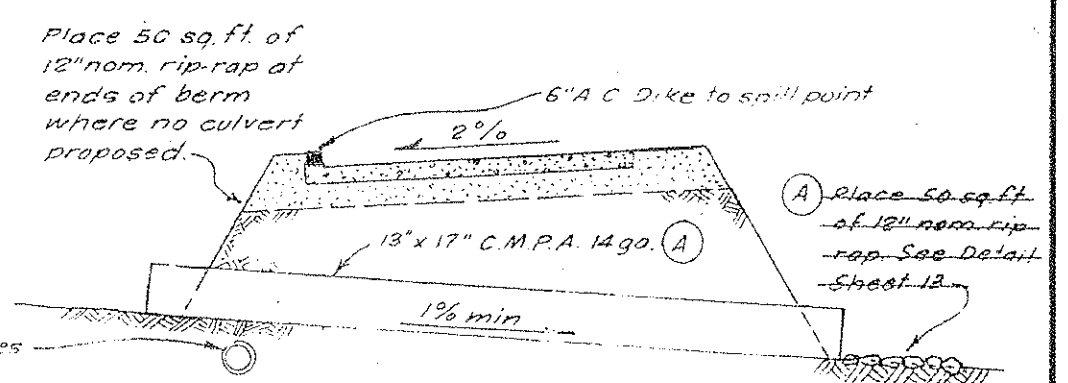
WATER SYSTEM NOTES

1. All work shall conform to standard specs. and requirements
of the Santa Ynez River Water Conservation District. Inspection
is to be provided by the owner.
2. Minimum water pipeline cover shall be 36" above the flow line.
3. All waterlines shall be located 2' off the edge of paving, un-
less otherwise shown.
4. All trenches shall be backfilled and compacted to 90% rela-
tive compaction.
5. Thrust blocks shall be installed at all changes of direction or
size of pipe, at all valves and at all dead ends, against undis-
turbed soil, per pipe manufacturer's recommendations.
6. All existing facilities shall be located and verified in the field
prior to commencement of construction. The owner shall not
be held responsible for removal and replacement of said
existing facilities or structures necessary for installation of
the facilities required for construction.
7. All piping install shall conform to Section 7071-7081 of
Calif. Admin. Code, Title 17, Group 1, Water Works Standards.
8. All pipe shall be asbestos cement or PVC, rubber ring joint, min. cl.
16", unless otherwise shown, as manufactured for
Potable Water Supply Systems by Johns-Manville or
"Certainteed" or equiv. and installed per manufactur-
ers recommendations.
9. Waterline crossings of existing pavement shall be re-
paired to match existing pavement upon completion of
trenching and installation of pipe.
10. All elbows, tees, crosses, reducers and other special
fittings in the pipeline shall be rubber ring or bellend
AWWA Class D fittings manufactured of tough gray
cast iron, free of all imperfections, with cement
mortar lining for use with the class of pipe
specified.
11. 4-inch asbestos-cement water pipe shall have a
maximum length of 10 feet 0 inches.
12. 2" services shall be installed at each location shown
on the plan with a 2" corporation stop. Each valve
location shall be marked with a Brooks IR (or equiv.)
non-traffic valve box and cover marked "Water"

LEGEND

- TRACT BOUNDARY
- EASEMENT LINE
- ROAD
- WATER LINE
- 2" WATER SERVICE
- THRUST BLOCK
- GATE VALVES
- A.C. PAVEMENT

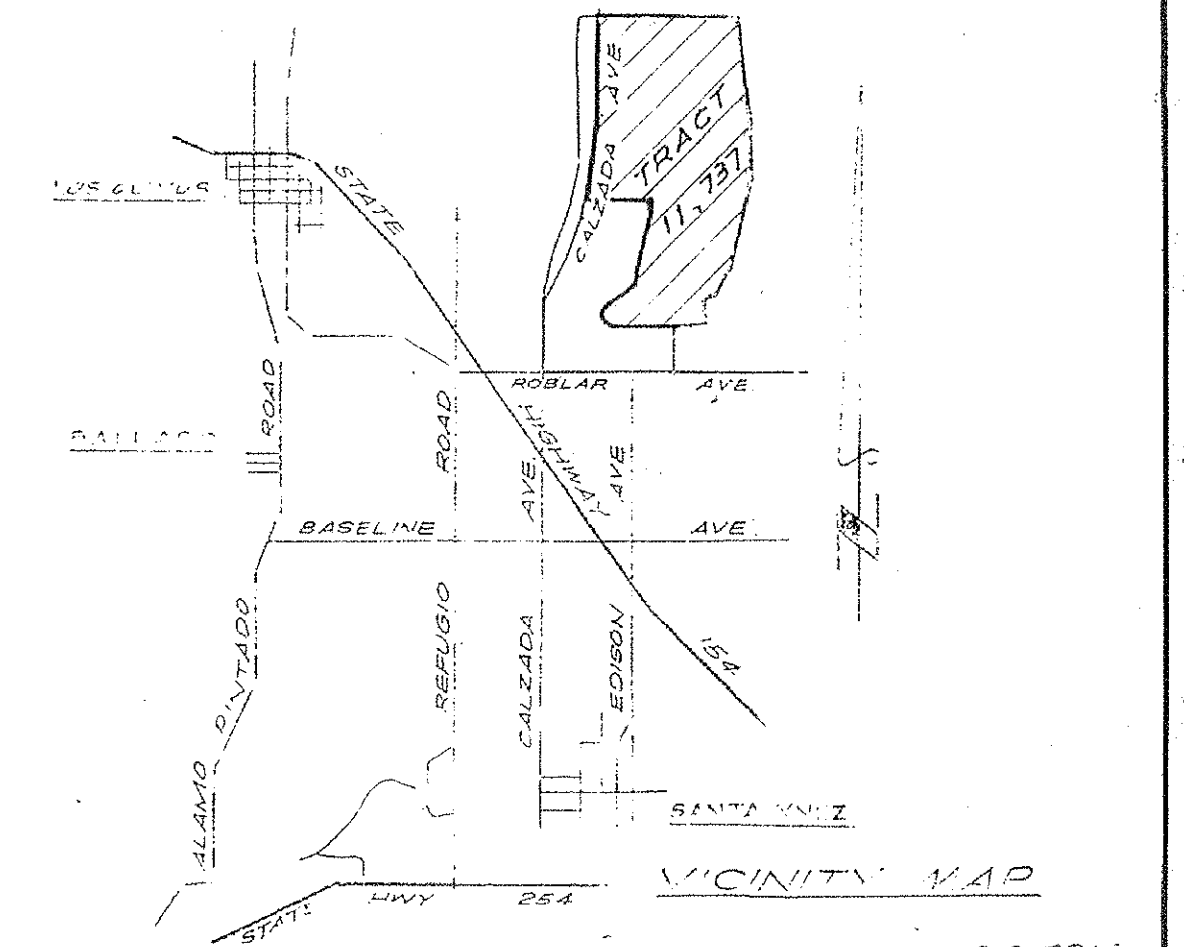
WATER DISTRIBUTION SYSTEM APPROVED BY
[Signature] Dec 22, 1976
District Engineer



**CULVERT INSTALLATION
DETAIL**

ROAD GRADING NOTES (See additional notes on Sheet 13)

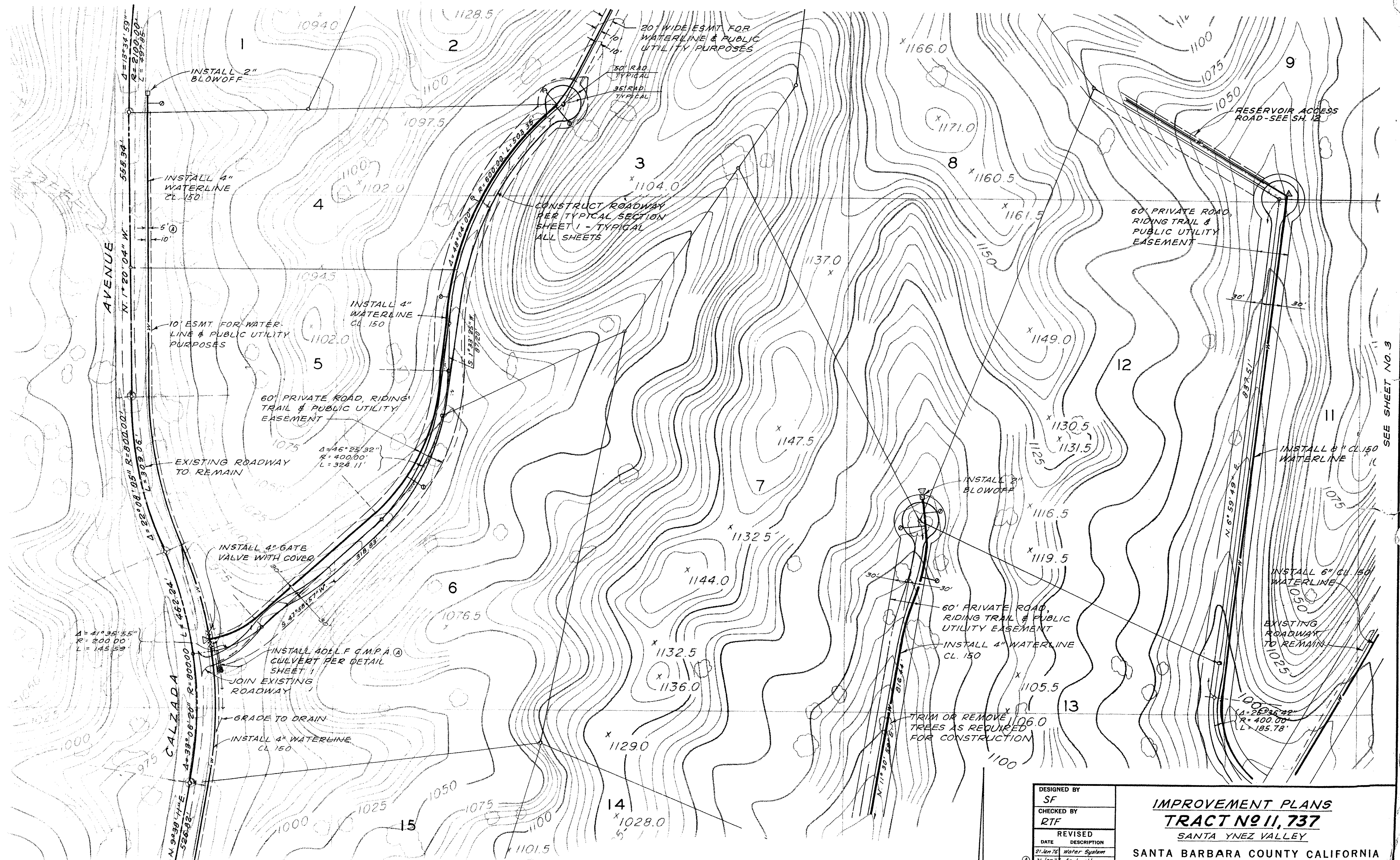
1. All grading shall conform to Santa Barbara County Grading Ord-
inance No. 1795 and standards pertaining thereto, this plan and
the Preliminary Soils Investigation for Tract 11,737 prepared by
Pacific Materials Testing Laboratory dated May 14, 1973.
2. All cut slopes shall not be steeper than 1 1/2 horizontal to 1 vert-
ical.
3. All fill slopes shall not be steeper than 2 horizontal to 1 vertical.
4. Inspection and certification that the work has been done in ac-
cordance with this plan and applicable county requirements
shall be made by the soils engineer.
5. Excess material shall be spread smoothly within the roadway
easement.
6. Contractor shall protect all trees, unless plan calls for their
removal. No trees to be removed without approval of the Engineer.
7. The proposed road area shall be cleared of all surface vegetation
including roots and root structures.
8. The top 12 inches of native soils shall be scarified and dried or
moistened to near optimum moisture content, and recom-
pacted to a minimum of 90% relative compaction.
9. In areas where isolated pockets of clayey material are encoun-
tered, these pockets shall be over-excavated to a depth of one
foot, and replaced with sandy gravelly soil. This soil is to be
recompacted to a minimum of 90% of relative compaction.
10. All fill material shall be spread on properly processed original
ground. The fill material shall be placed in lifts of approximately
8 inches, moistened or dried to a near optimum moisture con-
tent, and recompacted to a minimum of 90% of relative com-
paction.
11. Trees will be trimmed to provide 8' vertical clearance to roadway.
12. Areas to be paved with A.C. shall receive bituminous prime coat
prior to paving.
13. Length of improved roadways to be constructed = 20,625 lin. ft. approx.
Estimated quantity of excavation for roadways = 22,000 cu. yds.
Estimated quantity of excavation for water system = 8,500 cu. yds.
Estimated quantity of excavation covered under permit but previously
graded = 4330 cu. yds.
Total Excavation = 40,860 cu. yds.



DESIGNED BY H.K.L.		IMPROVEMENT PLANS TRACT No 11,737 SANTA YNEZ VALLEY	
CHECKED BY RTF			
REVISED		SANTA BARBARA COUNTY CALIFORNIA	
DATE	DESCRIPTION	U. S. GRANT & SON	
3/12/75	Cal. Sta. Dept.	314 E. CARRILLO ST.	
20 Apr 75	Permit note added	SANTA BARBARA, CALIFORNIA	
21 Jan 76	Water System	R. E. 10324 DATE: JUL 20 1975	
3/12/77	As-built	SCALES	
STREET DESIGN APPROVED		HOR: 1"=	
DATE		VER: 1"=	
BY: SANTA BARBARA COUNTY PUBLIC WKS. DIRECTOR		SHEET 1 OF 17 SHEET	

S. B. CO. FILE NO.

SEE SHEET 12



SEE SHEET NO. 4

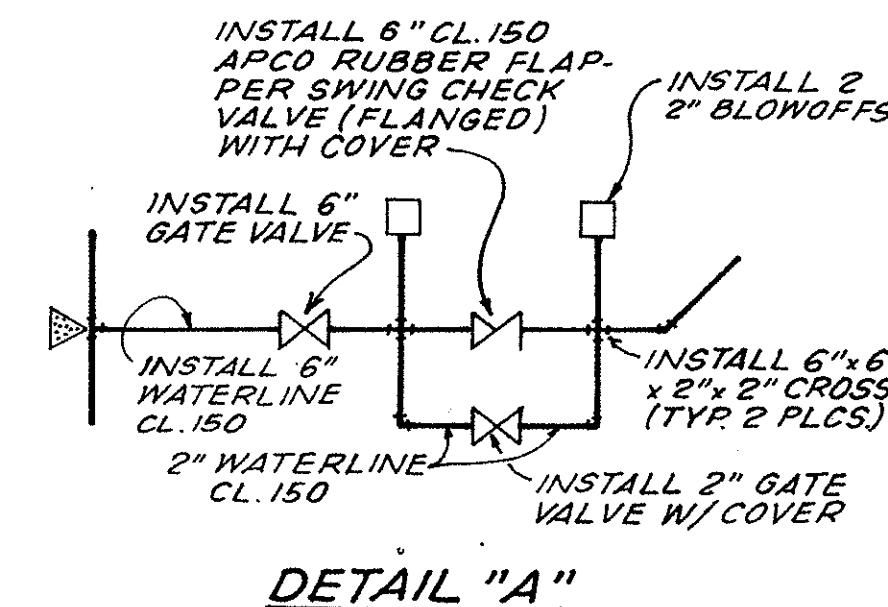
AS-BUILT

DESIGNED BY SF	IMPROVEMENT PLANS TRACT NO. 11, 737 SANTA YNEZ VALLEY SANTA BARBARA COUNTY CALIFORNIA	
CHECKED BY RTF		
REVISOR	DATE	DESCRIPTION
21 Jan 78	21 Jan 78	Water System
31 Jan 78	31 Jan 78	As-built
BY: <i>Robert J. Lawrence</i> R.E. 18324		DATE: JAN. 28, 1978
U. S. GRANT & SON 314 E. CARRILLO ST. SANTA BARBARA, CALIFORNIA		SCALES HOR: 1" = 100' VER: 1" = 10'
STREET DESIGN APPROVED		BY: _____ SANTA BARBARA COUNTY PUBLIC WORKS DIRECTOR
DATE: _____		SHEET 2 OF 17 SHEETS

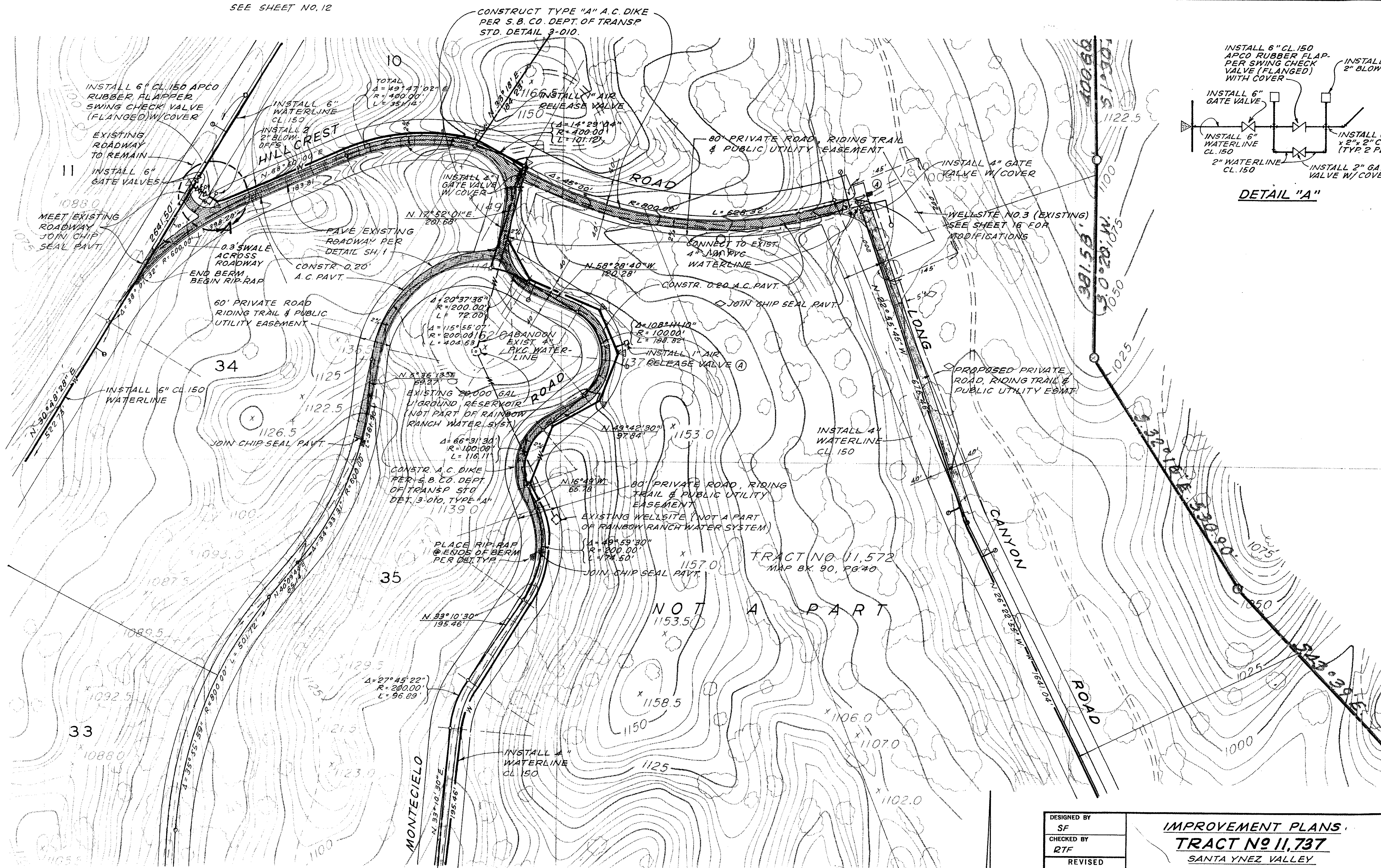
S. B. CO. FILE NO.

SEE SHEET NO. 12

CONSTRUCT TYPE "A" A.C. DIKE
PER S.B. CO. DEPT. OF TRANSP
STD. DETAIL 3-010.



SEE SHEET NO. 2

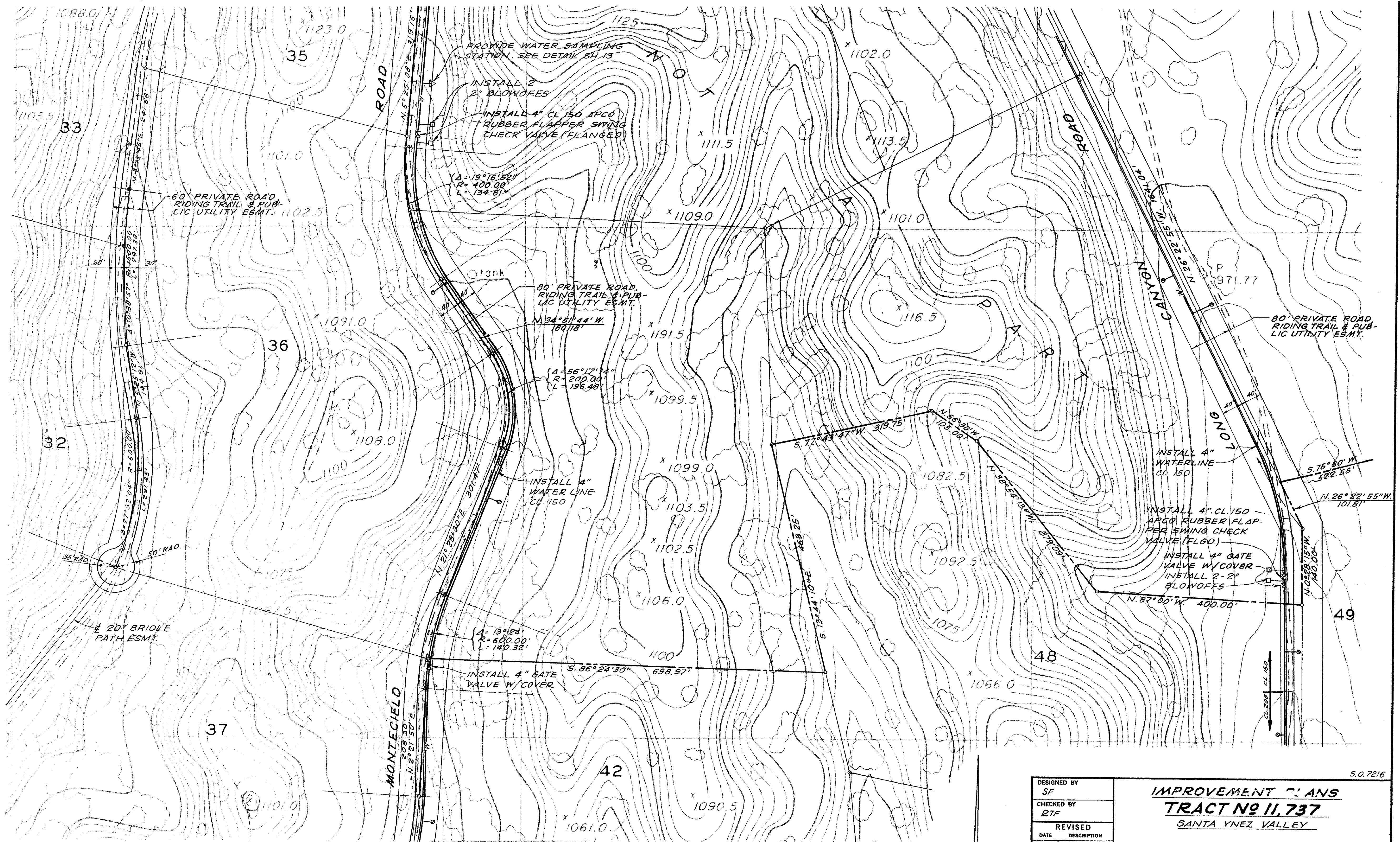


AS-BUILT

SEE SHEET NO. 5

DESIGNED BY SF		IMPROVEMENT PLANS TRACT NO. 11,737 SANTA YNEZ VALLEY	
CHECKED BY RTF			
REVISED		SANTA BARBARA COUNTY CALIFORNIA	
DATE	DESCRIPTION	Robert J. Rowan R.E. 18324 DATE JAN 28, 1975 U. S. GRANT & SON 314 E. CARRILLO ST. SANTA BARBARA, CALIFORNIA	
21 Jan 76	Water System	SCALES HOR: 1" = 100' VER: 1" = 10'	
26 Jan 76	As-built ready	SHEET 3 OF 17 SHEETS	
23 Apr 76	Valves relocated		
21 Jan 77	As-built	STREET DESIGN APPROVED DATE _____ BY: _____ SANTA BARBARA CO. PUBLIC WORKS DIRECTOR	

S. B. CO. FILE NO.



AS-BUILT

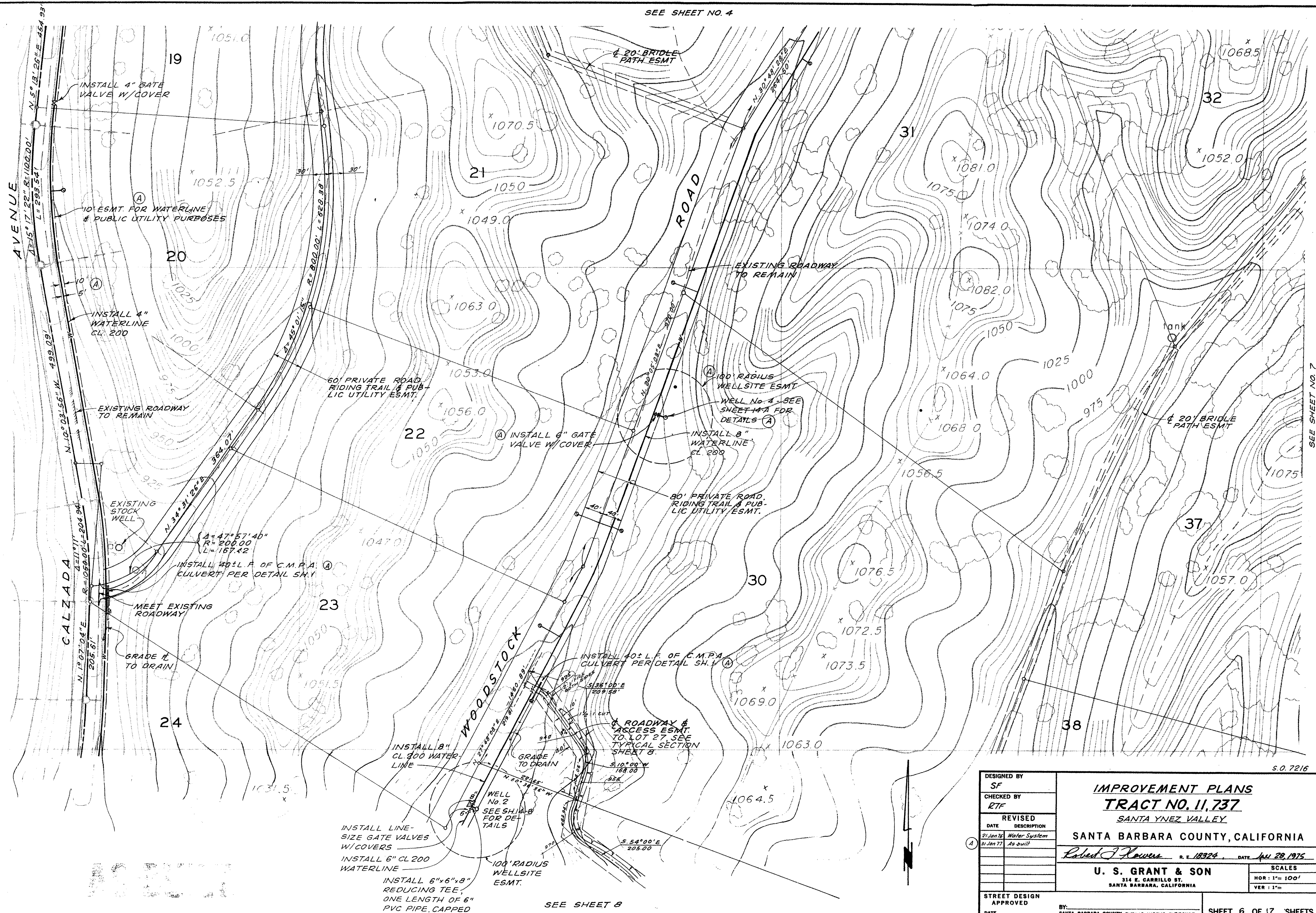
SEE SHEET NO. 7

DESIGNED BY SF	IMPROVEMENT PLANS TRACT NO. 11,737 SANTA YNEZ VALLEY		S.O. 7216
CHECKED BY RTF	SANTA BARBARA COUNTY CALIFORNIA		
REVISED	Robert J. Hansen R.E. 18924 DATE JAN 28, 1976		
DATE DESCRIPTION	U. S. GRANT & SON 314 E. CARRILLO ST. SANTA BARBARA, CALIFORNIA		SCALES HOR: 1" = 100' VER: 1" = 10'
21 Jan 76 Water System			
31 Jan 77 As-built			
STREET DESIGN APPROVED		BY: SANTA BARBARA COUNTY PUBLIC WORKS DIRECTOR	SHEET 5 OF 17 SHEETS

7216

S. B. CO. FILE NO.

SEE SHEET NO. 4



DESIGNED BY	SF
CHECKED BY	RTF
REVIS	
DATE	DESCRIPTION
21 Jan 76	Water System
31 Jan 77	As-built
STREET DESIGN	APPROVED
DATE	BY: SANTA BARBARA COUNTY PUBLIC WORKS DIRECTOR

IMPROVEMENT PLANS **TRACT NO. 11,737**

SANTA YNEZ VALLEY

SANTA BARBARA COUNTY, CALIFORNIA

Robert J. Hower R.E. 12324 DATE *Jan 28, 1975*

U. S. GRANT & SON
314 E. CARRILLO ST.
SANTA BARBARA, CALIFORNIA

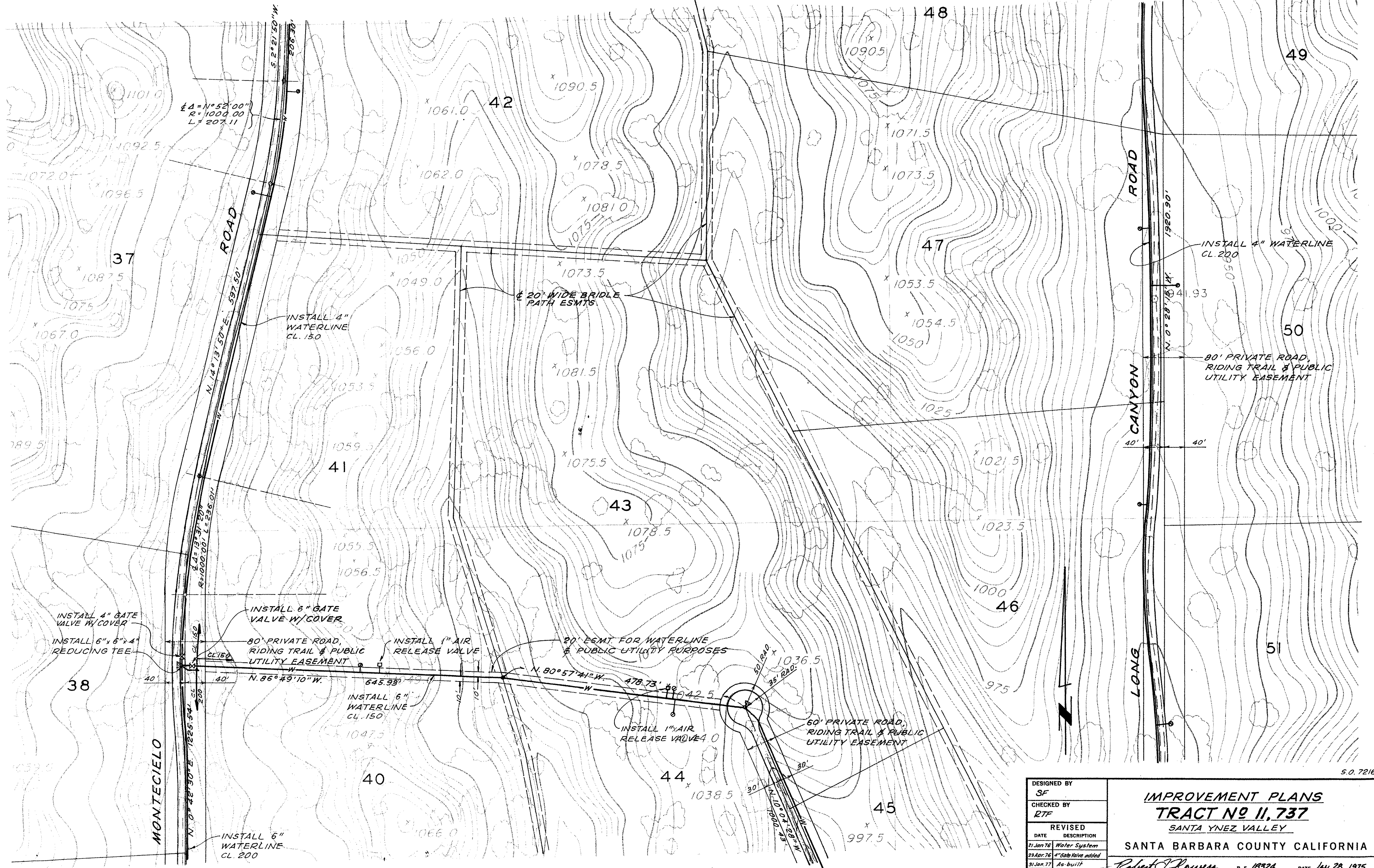
SCALES
HOR: 1"= 100'
VER: 1"=

SHEET 6 OF 17 SHEETS

S. B. CO. FILE NO.

SEE SHEET NO. 5

SEE SHEET NO. 6



S.O. 7216

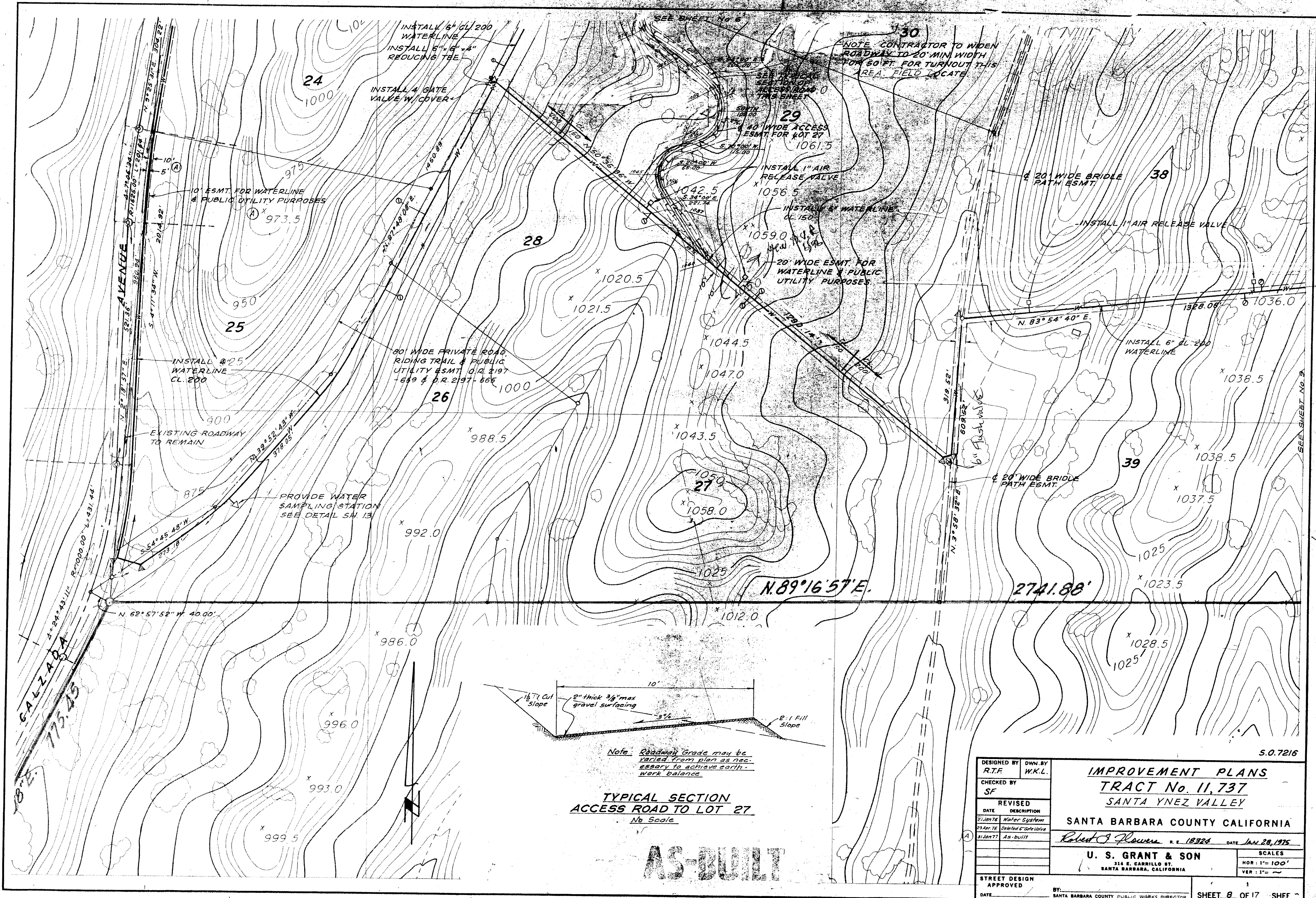
AS-BUILT

SEE SHEET NO. 9

DESIGNED BY SF		IMPROVEMENT PLANS TRACT NO 11,737 SANTA YNEZ VALLEY SANTA BARBARA COUNTY CALIFORNIA	
CHECKED BY RTF			
REVISED		Robert J. Hansen R.E. 18324 DATE <u>Jan 28, 1975</u>	
DATE	DESCRIPTION		
21 Jan 76	Water System		
23 Apr 76	4" Gate Valve added		
31 Jan 77	As built	U. S. GRANT & SON 314 E. CARRILLO ST. SANTA BARBARA, CALIFORNIA	
STREET DESIGN APPROVED		SCALES HOR: 1" = 100' VER: 1" =	
DATE		BY: SANTA BARBARA COUNTY PUBLIC WORKS DIRECTOR	
		SHEET 7 OF 17 SHEETS	

S. B. CO. FILE NO.

7216



**TYPICAL SECTION
ACCESS ROAD TO LOT 27**
No Scale

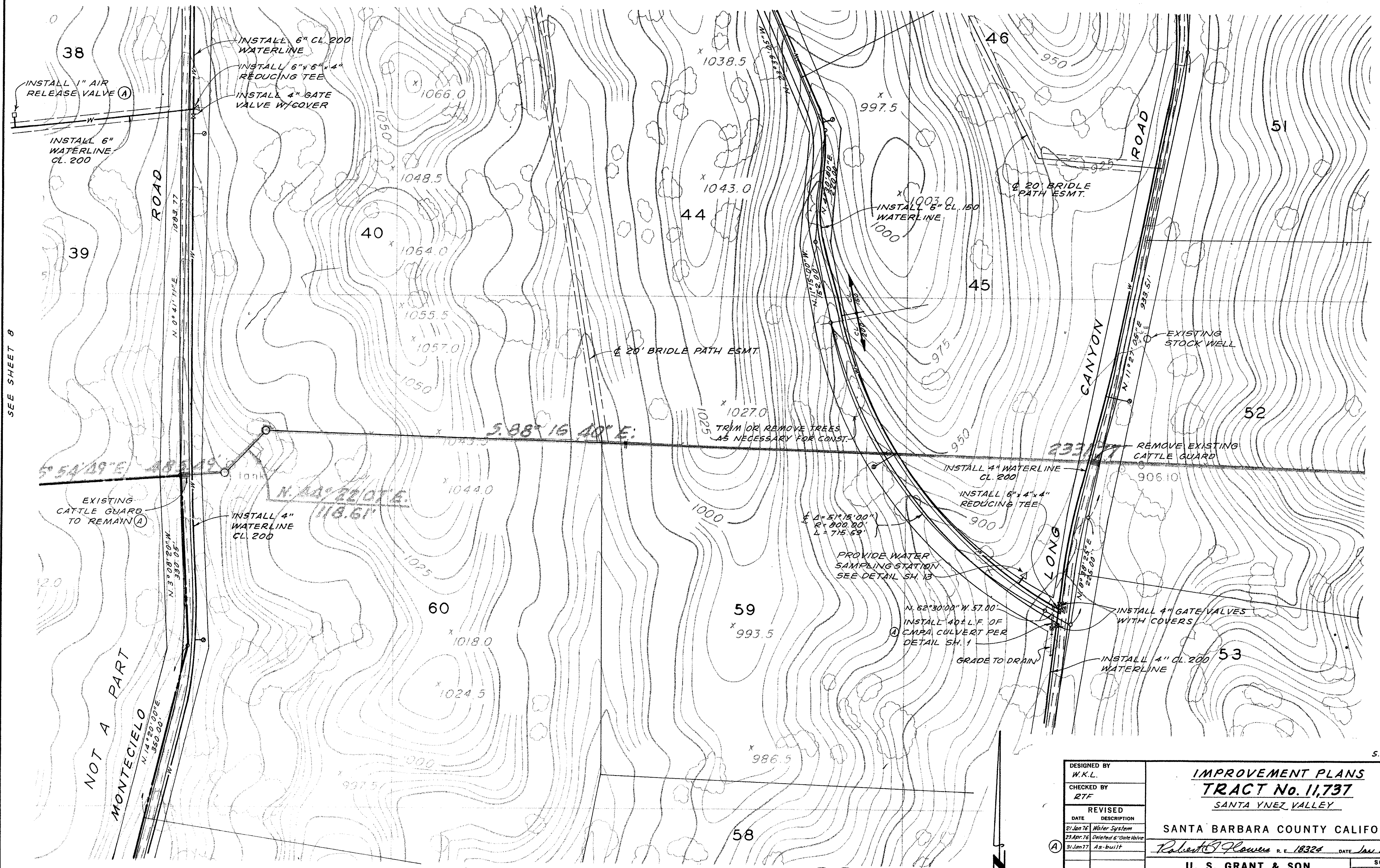
AS-BUILT

DESIGNED BY R.T.F.	DWN. BY W.K.L.	IMPROVEMENT PLANS TRACT No. 11,737 SANTA YNEZ VALLEY	
CHECKED BY SF	REVISOR		
DATE 2/1/76	DESCRIPTION Water System	SANTA BARBARA COUNTY CALIFORNIA	
23 Apr 76	Deleted 6" air release valve	Robert J. Powers, P.E. 18328 DATE Jan 28, 1975	
3/1/77	As-built	U. S. GRANT & SON 314 E. CARRILLO ST. SANTA BARBARA, CALIFORNIA	
STREET DESIGN APPROVED		SCALES HOR: 1" = 100' VER: 1" = 10'	
DATE		BY: SANTA BARBARA COUNTY PUBLIC WORKS DIRECTOR SHEET 8 OF 17 SHEF	

7216

S. B. CO. FILE NO.

SEE SHEET 7



SEE SHEET 8

SEE SHEET 10

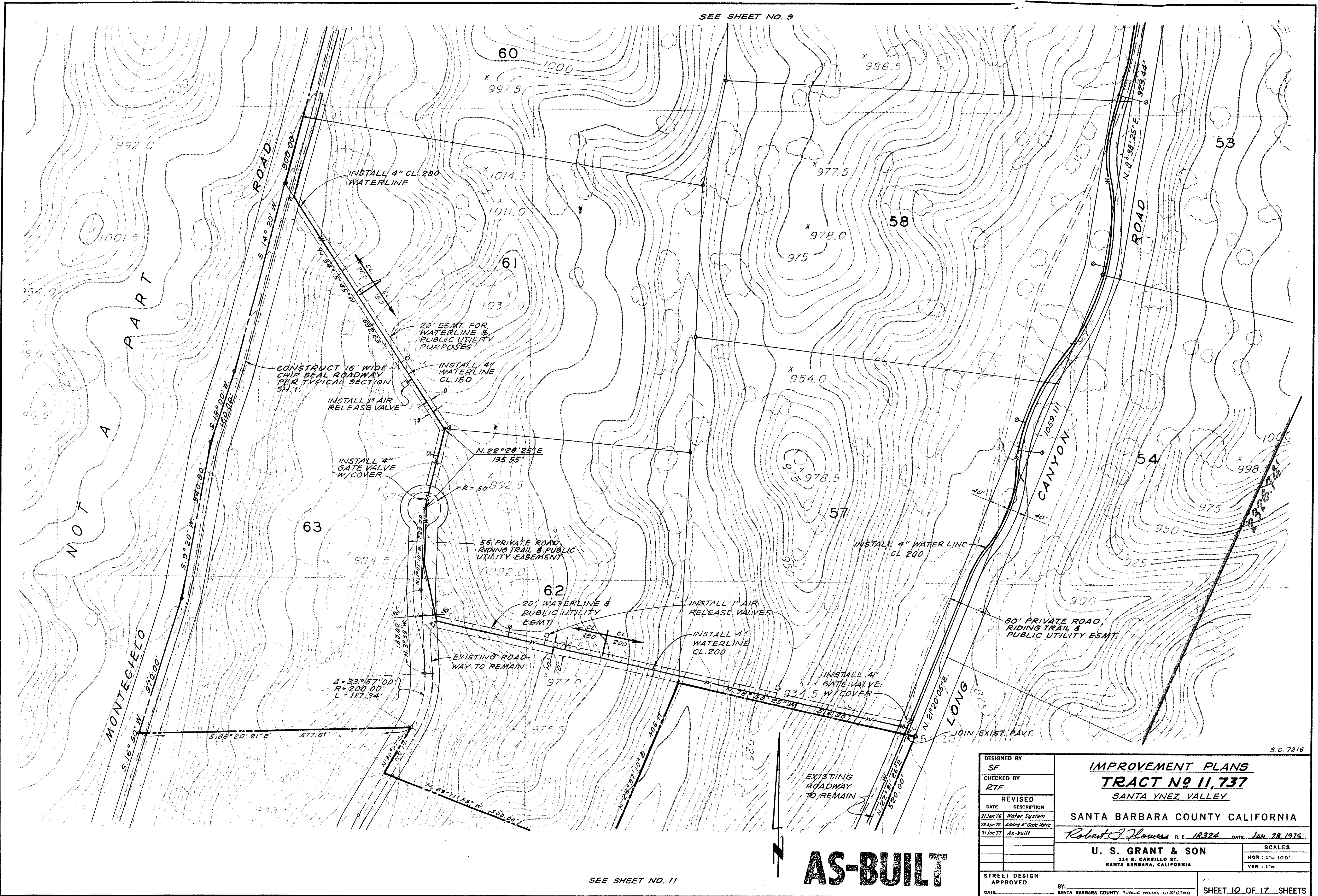
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DESIGNED BY W.K.L.		IMPROVEMENT PLANS TRACT No. 11,737 SANTA YNEZ VALLEY	
CHECKED BY RTF			
REVISED		SANTA BARBARA COUNTY CALIFORNIA	
DATE	DESCRIPTION	314 E. CARRILLO ST. SANTA BARBARA, CALIFORNIA	
21 Jan 76	Water System	Robert J. Powers R.E. 18324 DATE Jan 28 1976	
23 Apr 76	Deleted 6" Gate Valve		
31 Jan 77	As-built	U. S. GRANT & SON	
		314 E. CARRILLO ST. SANTA BARBARA, CALIFORNIA	
		SCALES	
		HOR: 1" = 100'	
		VER: 1" = ~	
STREET DESIGN APPROVED		BY: _____ SANTA BARBARA COUNTY PUBLIC WORKS DIRECTOR	
DATE		SHEET 9 OF 17 SHEETS	

7216

S. B. CO. FILE NO.

SEE SHEET NO. 9



SEE SHEET NO. 11

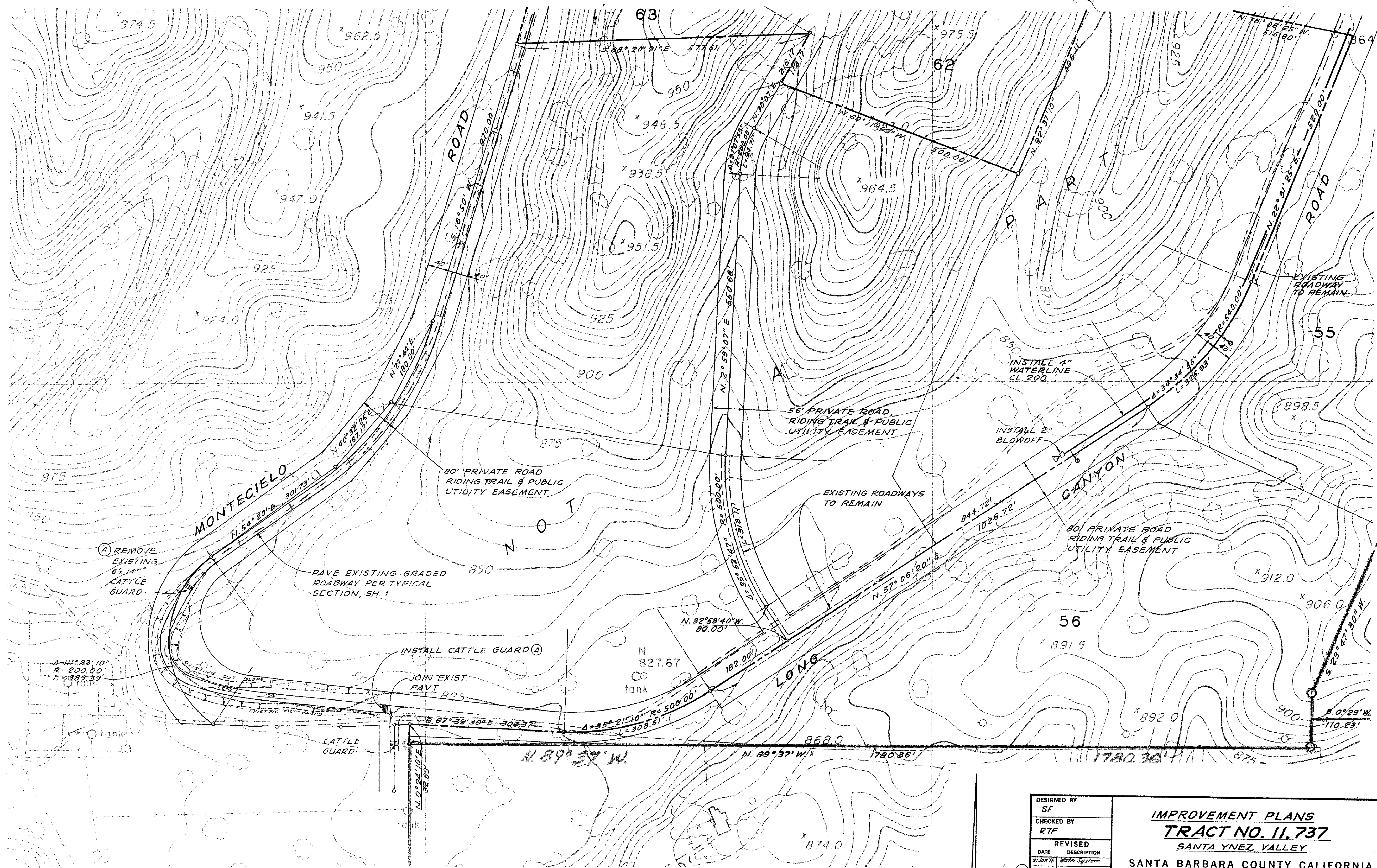
AS-BUILT

DESIGNED BY SF		IMPROVEMENT PLANS TRACT NO 11,737 SANTA YNEZ VALLEY SANTA BARBARA COUNTY CALIFORNIA <i>Robert J. Flowers</i> R.E. 18324 DATE JAN 28 1975	
CHECKED BY RTF			
REVISED DATE DESCRIPTION 21 Jan 76 Water System 23 Apr 76 Added 4" Gate Valve 31 Jan 77 As-built		SCALES HOR: 1" = 100' VER: 1" =	
STREET DESIGN APPROVED DATE		BY: SANTA BARBARA COUNTY PUBLIC WORKS DIRECTOR	
		SHEET 10 OF 17 SHEETS	

7216

S. B. CO. FILE NO.

SEE SHEET 10

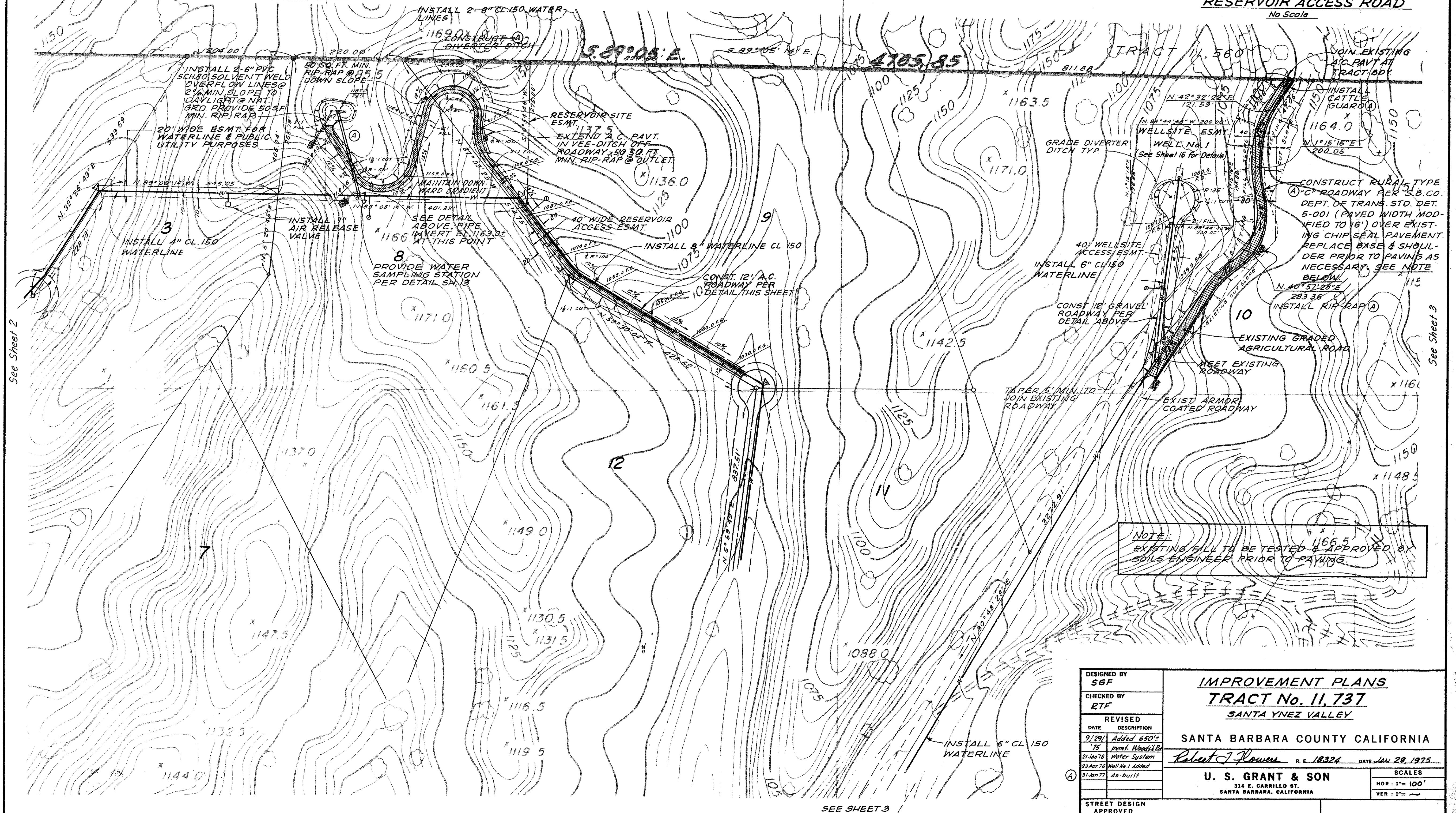
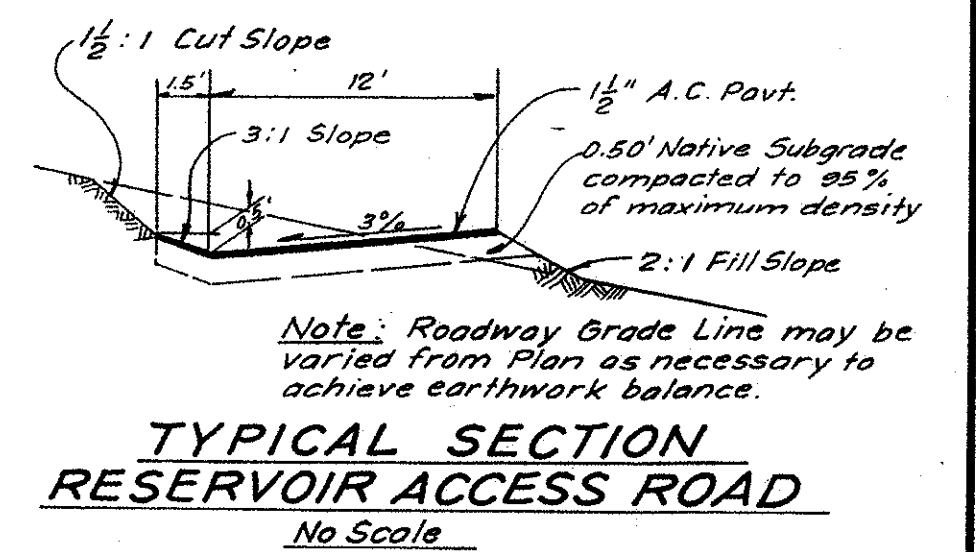


AS-BUILT

DESIGNED BY SF	IMPROVEMENT PLANS TRACT NO. 11,737 SANTA YNEZ VALLEY SANTA BARBARA COUNTY CALIFORNIA	
CHECKED BY RTF	U. S. GRANT & SON 314 E. CARRILLO ST. SANTA BARBARA, CALIFORNIA	
REVIS DATE DESCRIPTION 21 Jan 76 Water System 31 Jan 77 As-built	Robert J. Rowen R.E. 18324 DATE Jan 28, 1975	
STREET DESIGN APPROVED		BY: SANTA BARBARA COUNTY PUBLIC WORKS DIRECTOR
DATE:		SHEET 11 OF 17 SHEETS

7216

S. B. CO. FILE NO.



DESIGNED BY SGF	<u>IMPROVEMENT PLANS</u> <u>TRACT No. 11,737</u> <u>SANTA YNEZ VALLEY</u>		
CHECKED BY RTF			
REVISED			
DATE DESCRIPTION			
9/29/75	Added 650's pmt. Woodlile		
21 Jan 76	Water System		
23 Apr 76	Well No. 1 Added		
31 Jan 77	As-built		

SANTA BARBARA COUNTY CALIFORNIA

Robert J. Rowen

R. E. 18324 DATE JAN 28, 1975

U. S. GRANT & SON

314 E. CARRILLO ST.
SANTA BARBARA, CALIFORNIA

SCALES

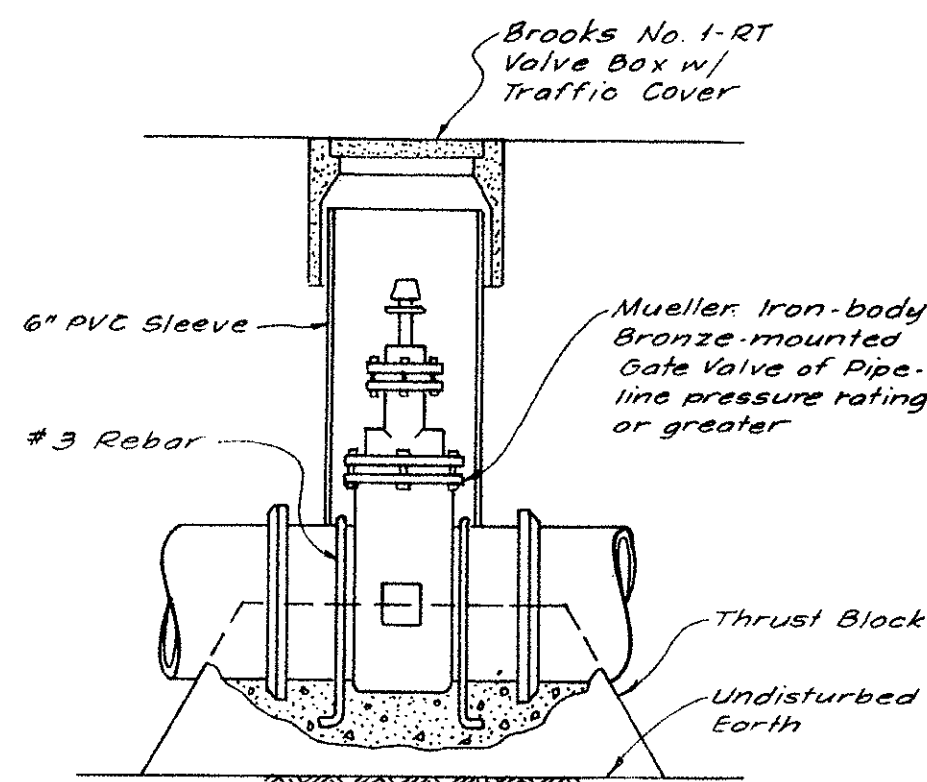
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VER: 1" = ~

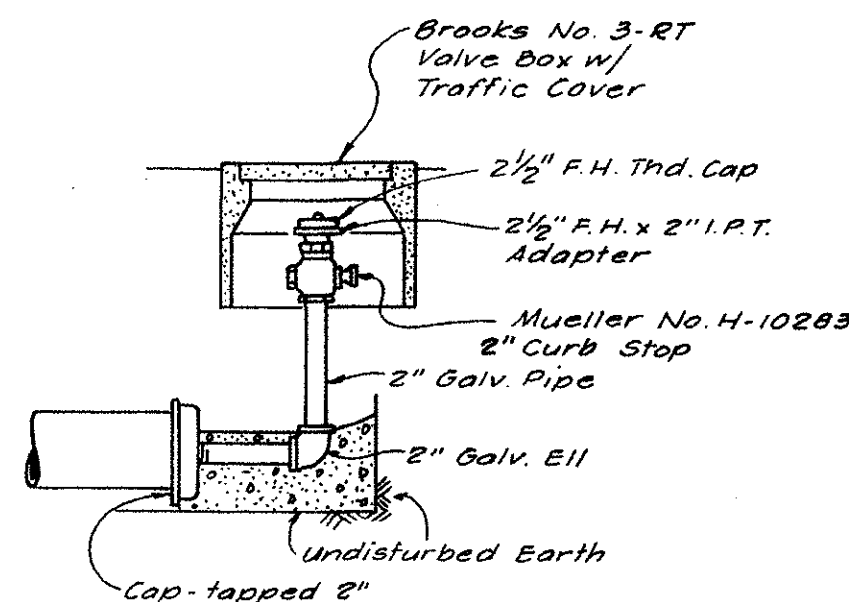
STREET DESIGN APPROVED

DATE _____ BY: SANTA BARBARA COUNTY PUBLIC WORKS DIRECTOR

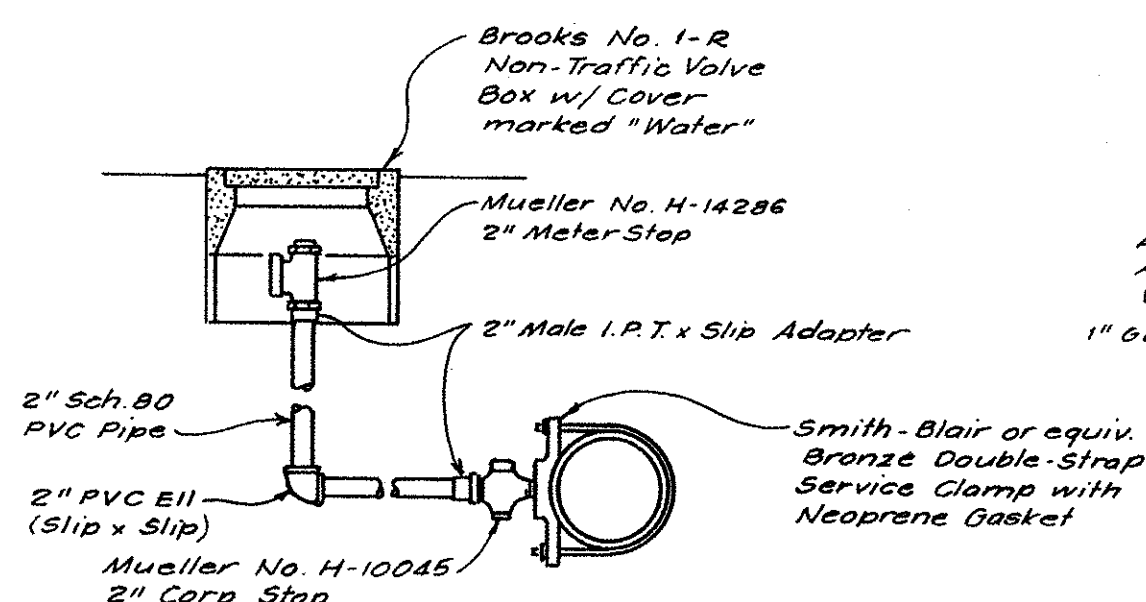
SHEET 12 OF 17 SHEETS



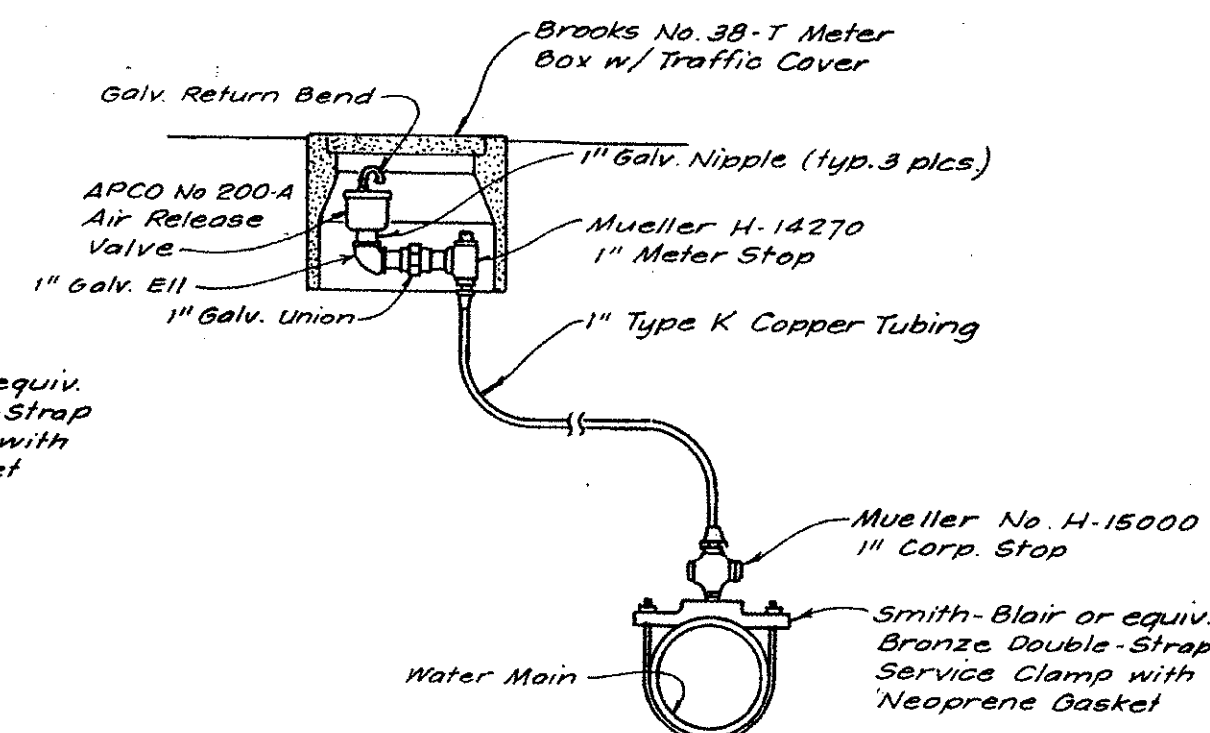
GATE VALVE OR CHECK VALVE INSTALLATION
No Scale



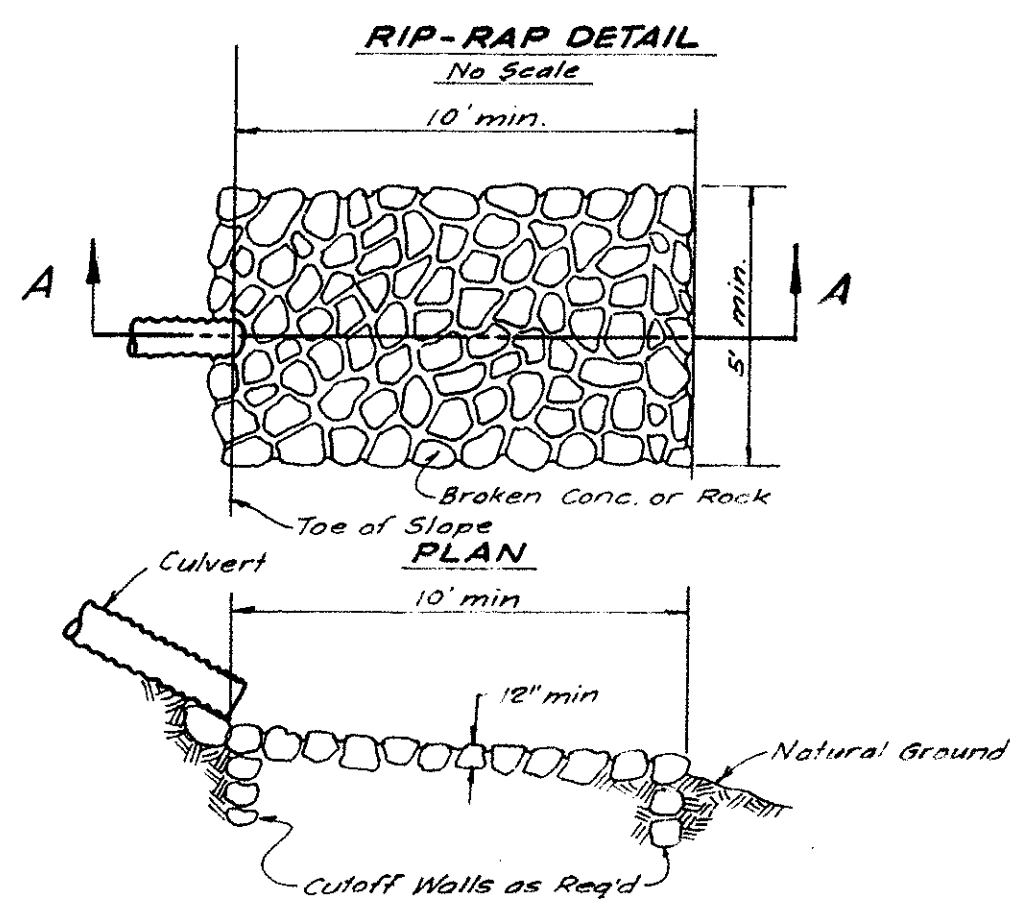
2" BLOW-OFF INSTALLATION
No Scale



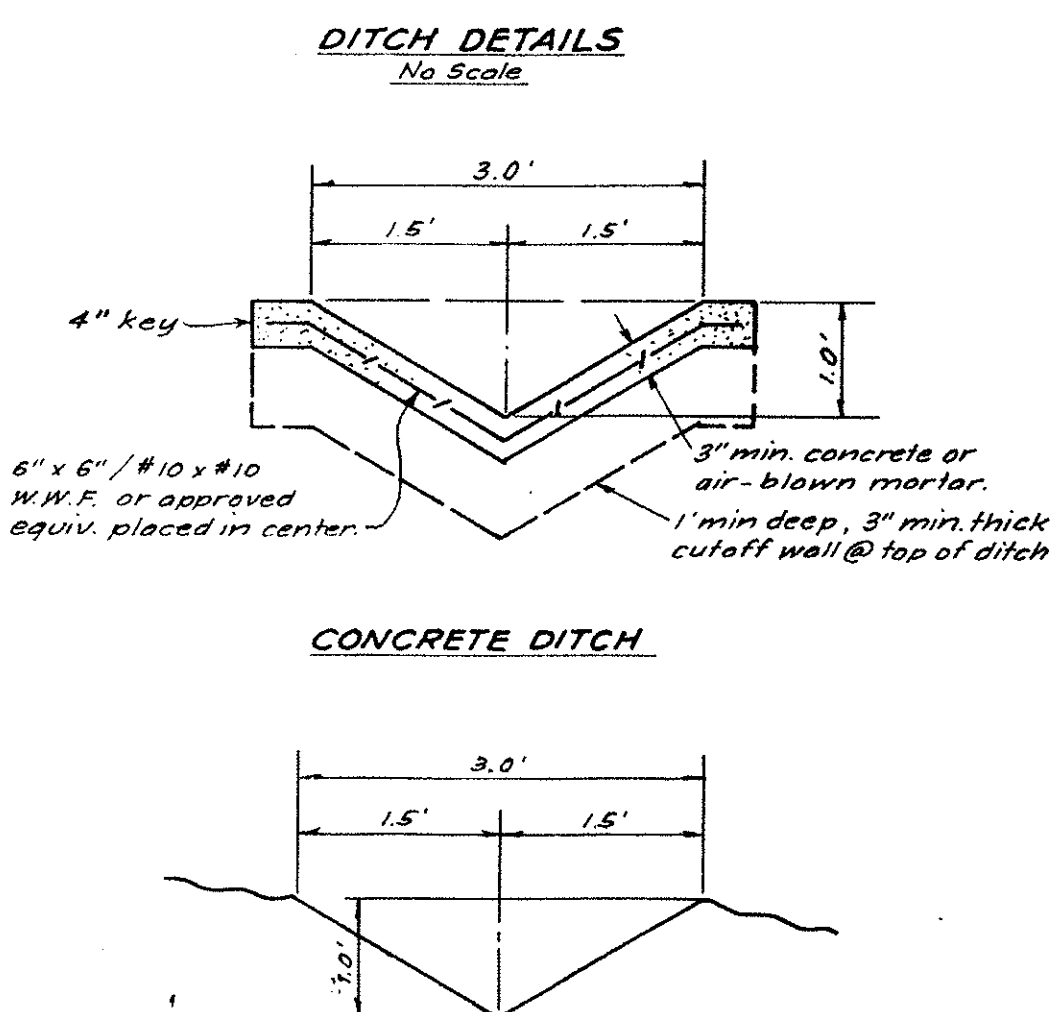
2" PVC SERVICE INSTALLATION
No Scale



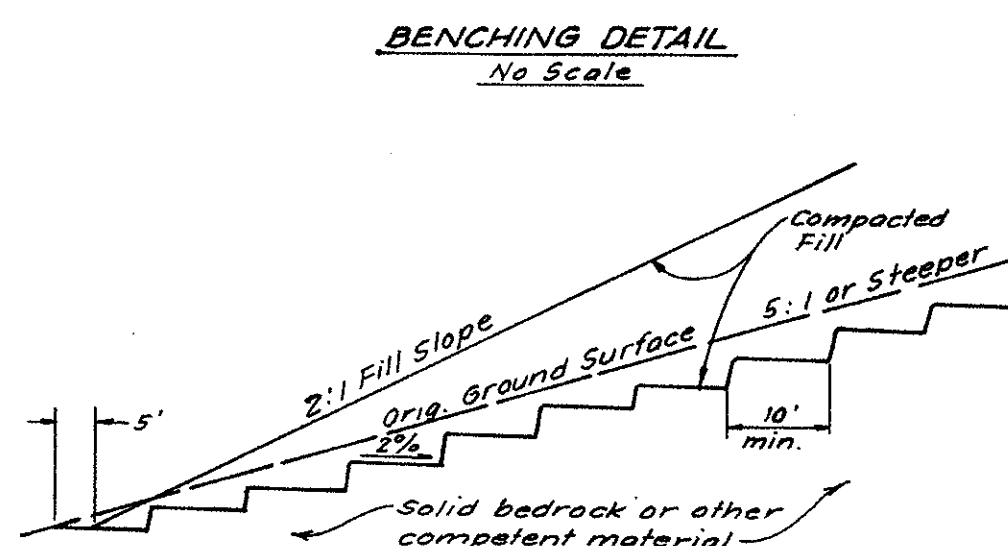
AIR RELEASE VALVE INSTALLATION
No Scale



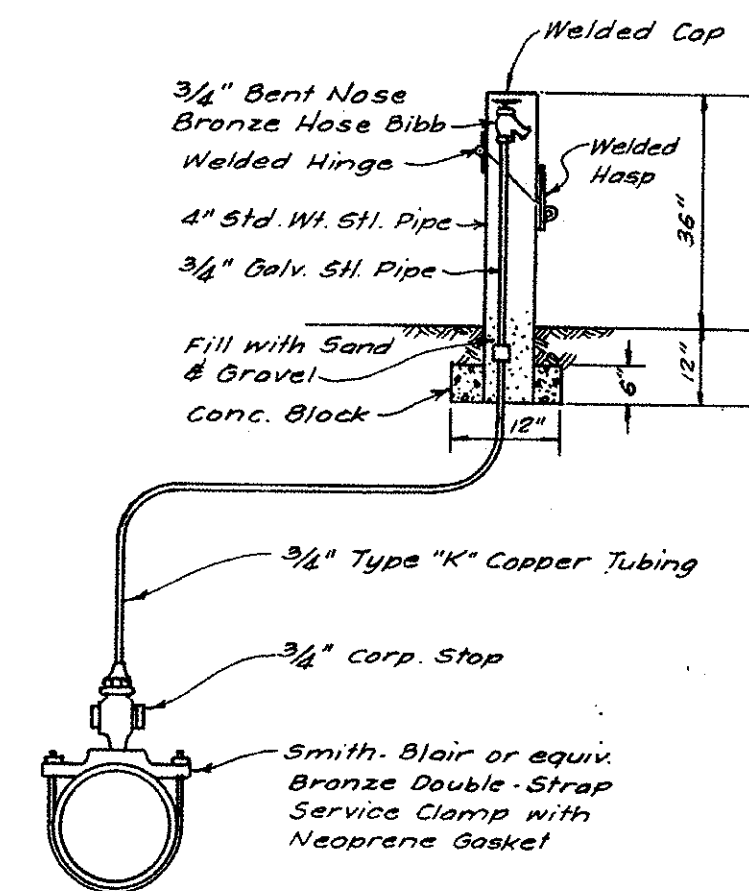
- NOTES**
1. Provide cutoff walls as necessary to prevent undercutting.
 2. Horizontal dimensions shown are minimum and shall be increased where necessary.
 3. Rip-rap to be broken concrete or rock with a minimum dimension of 12".
 4. All rip-rap to be grouted solid.



- NOTES**
1. Concrete ditches shall be formed before pouring concrete. Forms shall be set to grade and alignment at all breaks in the cross-section. Concrete shall be screeded to the cross-section.
 2. Air-blown mortar ditches shall be shot to wire guides. Guides shall be set to grade and alignment at all breaks in the cross-section. Concrete shall be screeded to the cross-section.
 3. Area shall be moistened and compacted prior to pouring concrete.
 4. Air-blown mortar shall conform to current Calif. Div. of Hwys specifications for Class B Concrete.
 5. 1' deep cutoff walls to be provided where necessary to prevent undercutting.



- NOTES**
1. Benches at least 10 feet wide extending into bedrock or other competent material shall be provided wherever fill is to be placed on natural slopes 5:1 or steeper.
 2. Benches shall be sloped away from face of fill by at least 2%.
 3. 5 feet of the lowermost bench shall be exposed beyond toe of fill.



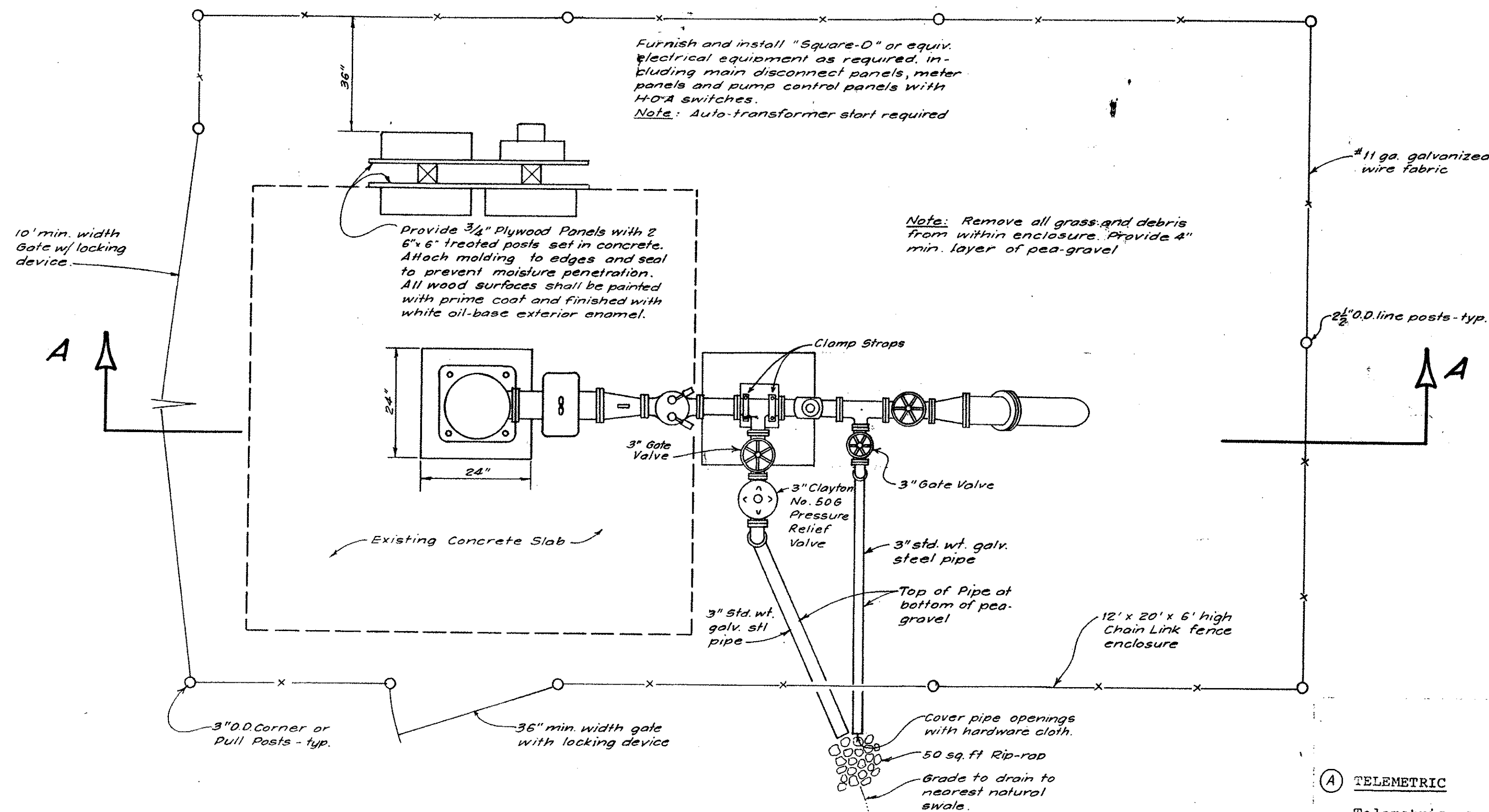
NOTE:
Exterior of 4" Pipe to be painted w/ 2 coats of Rustoleum No 1069 Heavy Duty Rust Inhibitive Primer. Galv. Steel Riser to be wrapped w/ 1" min thickness Fiberglass insulation overlain w/canvas.

WATER SAMPLING STATION
No Scale

AS-BUILT

DESIGNED BY S.G.F.	CHECKED BY	REVISOR DATE DESCRIPTION 31 Jan 77 As-built	IMPROVEMENT PLANS TRACT No. 11, 737 SANTA YNEZ VALLEY	
SANTA BARBARA COUNTY CALIFORNIA				
Robert J. Rawers R.E. 18324 DATE Jan 21, 1976 U. S. GRANT & SON 314 E. CARRILLO ST. SANTA BARBARA, CALIFORNIA			SCALES HOR: 1" = Noted VER: 1" =	
WATER DISTRIBUTION SYSTEM APPROVED BY [Signature] Feb. 23, 1976			SHEET 13 OF 17 SHEETS	

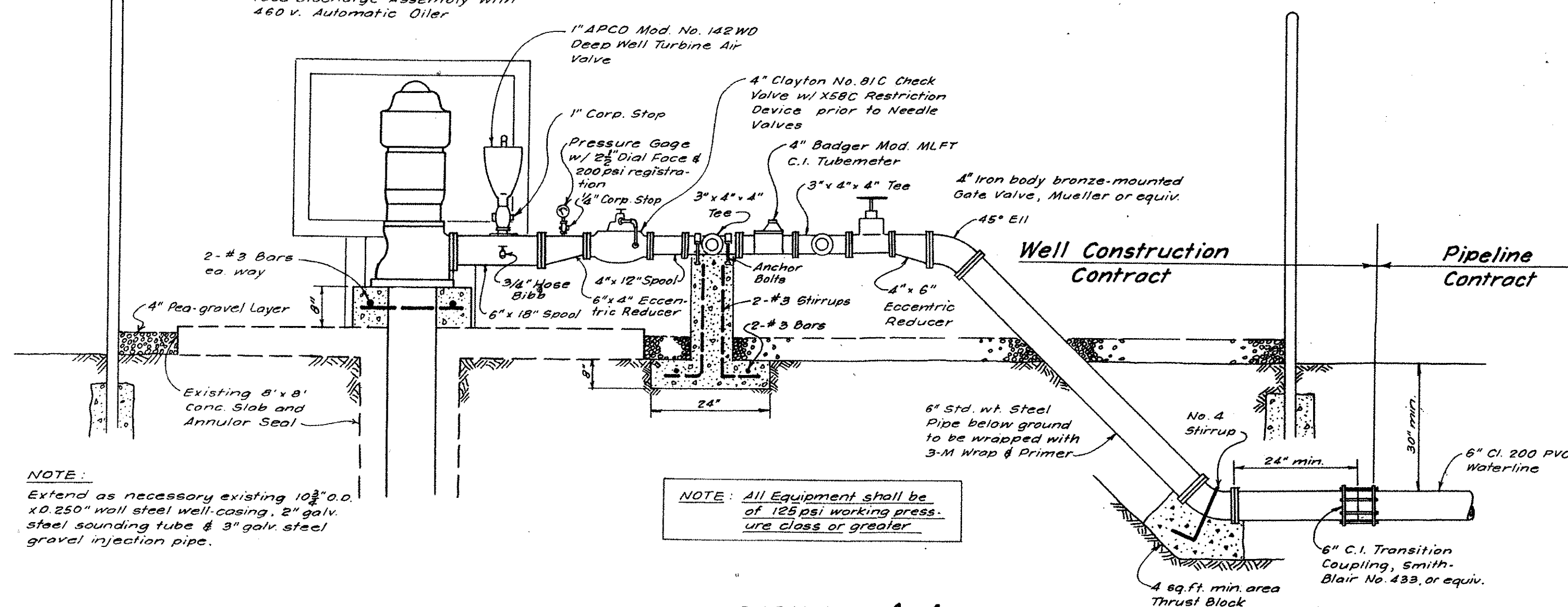
S. B. CO. FILE NO.



WELLSITE No. 4
PLAN VIEW
No Scale

Pump Specifications

Peerless Vertical Lineshaft Turbine Pump to provide 315 gpm @ 775 ft.
Motor: 100 H.P., VHS, 1760 rpm, 460 v., 60 Hz., 3 φ, WP-1 Enclosure
Bowl Assembly: 9LA, 24-stage with suction pipe and strainer
Column Assembly: 6" Std. Lineshaft Column 1 1/2" Shaft, 2 1/2" Oiler Tube, 20 ft. sections, 520 l.f.
Discharge Assembly: 3" x 8" x 16 1/2" C.I. Surface Discharge Assembly with 460 v. Automatic Oiler



SECTION A-A
No Scale

TELEMETRIC

Telemetric receiving, relay and power supply equipment, protected against line surges, shall be installed in a NEMA-4 enclosure by Automation Associates, Inc., (AAI). Connection to pump control equipment shall be made by AAI personnel as approved by the Well Construction Contractor.

WELLSITE CONSTR. PLAN

GENERAL

- For additional notes on water system see Sheet No. 1.
- The work shall be performed in a thorough and workmanlike manner and to the reasonable satisfaction of the Engineer.
- The Contractor shall perform the work in compliance with the most stringent of all applicable laws, ordinances, codes and standards.
When the work required by the plans is in conflict with any such law, ordinance, code or standard, the Contractor shall notify the Owner and shall not proceed with the work until the Owner has so ordered.
- The Contractor shall secure, at his own expense, all permits, certificates and licenses required of him by law for the execution of his work.
- The Contractor shall notify the Engineer promptly of any errors or omissions found in the plans or of any discrepancies found between the plans and the physical condition of the site.
Such errors and omissions shall not relieve the Contractor from the responsibility of furnishing or installing all items required by law or usually furnished or installed in a project of the scope and general character indicated by the plans.
- Materials and appliances shall be new and of a quality equal to that specified or approved by the Engineer.
- When it is necessary that the Contractor shall furnish materials or do work for which no specification has been set forth, the materials and workmanship shall be of the best grade in quality obtainable in the market.

SITE PREPARATION

The wellsite shall be graded as necessary to allow adequate drainage and prevent ponding of surface runoff and to allow construction of the concrete slab at a maximum slope of 1/4" per ft.

ELECTRICAL

- The Contractor shall furnish and install all necessary insulated wire and cable, conduit, fittings and appliances for power and control circuits as required per the most stringent of applicable codes and standards and in accordance with the manufacturers' recommendations.
- All materials shall be new and conform to the Standards of the N.E.M.A. and the U.L.

- All insulated wire and cable shall be installed in rigid metallic conduit, incorporating drip loops where entering fixtures and boxes, properly attached in unobtrusive locations.
- The Contractor shall contact P. G. & E. for service and power requirements.
- The Contractor shall make all splices, connections, tests and adjustments necessary to make all electrical equipment properly operable.

MECHANICAL

- The Contractor shall furnish and install all pipe, pipe fittings and equipment and make all connections, tests and adjustments necessary to make the system properly operable.
- All flanged fittings and equipment shall be Schedule 40 or C. I. Class 125.
- All steel pipe shall be Sch. 40 welded or flanged as shown. Pipe shall be wrapped where shown or elsewhere prepared for painting by thoroughly wire brushing and painted with two coats of "Rustoleum" No. 1069 Heavy Duty Rust Inhibitive Red Primer.
- All above ground piping, valves, meters, impeller casings shall be wrapped with 1" min. thickness fiberglass insulation overlain with canvas. The insulation shall not interfere with normal operation of the valve or pump.

CLEANING AND DISINFECTION

The well shall be disinfected in accordance with Dept. of Water Resources Bulletin No. 74 - "Water Well Standards: State of California", Appendix E.

AS-BUILT

DESIGNED BY SGF	IMPROVEMENT PLANS	
CHECKED BY	TRACT No. 11,737	
DATE	SANTA YNEZ VALLEY	
REVISION	DATE	
DESCRIPTION	DATE	
12-12-76	NEW SHEET	As-built
31-Jan-77	As-built	
SANTA BARBARA COUNTY CALIFORNIA		
S. S. GRANT & SON		
314 E. CARNILLO ST. SANTA BARBARA, CALIFORNIA		
STREET DESIGN APPROVED		
DATE		
BY: SANTA BARBARA COUNTY ROAD COMMISSIONER		
SHEET 14 OF 17 SHEETS		

G.O. 7216

721616 S. B. CO. FILE NO.

GENERAL

- For additional notes on water system see Sheet No. 1.
- The work shall be performed in a thorough and workmanlike manner and to the reasonable satisfaction of the Engineer.
- The Contractor shall perform the work in compliance with the most stringent of all applicable laws, ordinances, codes and standards.

When the work required by the plans is in conflict with any such law, ordinance, code or standard, the Contractor shall notify the Owner and shall not proceed with the work until the Owner has so ordered.

- The Contractor shall secure, at his own expense, all permits, certificates and licenses required of him by law for the execution of his work.
- The Contractor shall notify the Engineer promptly of any errors or omissions found in the plans or of any discrepancies found between the plans and the physical condition of the site.

Such errors and omissions shall not relieve the Contractor from the responsibility of furnishing or installing all items required by law or usually furnished or installed in a project of the scope and general character indicated by the plans.

- Materials and appliances shall be new and of a quality equal to that specified or approved by the Engineer.

- When it is necessary that the Contractor shall furnish materials or do work for which no specification has been set forth, the materials and workmanship shall be of the best grade in quality obtainable in the market.

SITE PREPARATION

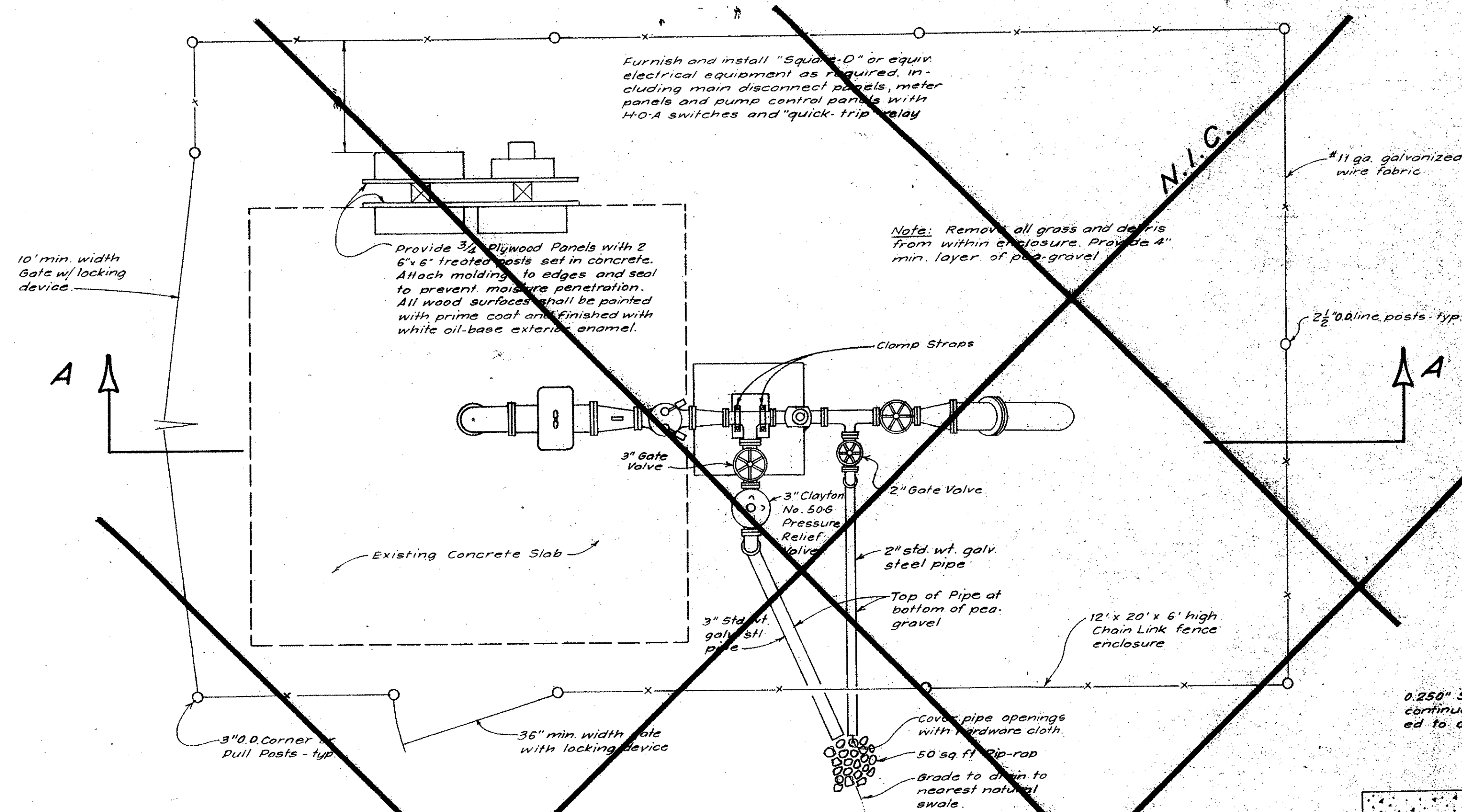
The wellsite shall be graded as necessary to allow adequate drainage and prevent ponding of surface runoff and to allow construction of the concrete slab at a maximum slope of 1/4" per ft.

ELECTRICAL

- The Contractor shall furnish and install all necessary insulated wire and cable, conduit, fittings and appliances for power and control circuits as required per the most stringent of applicable codes and standards and in accordance with the manufacturers' recommendations.
- All materials shall be new and conform to the Standards of the N.E.M.A. and the U.L.
- All insulated wire and cable shall be installed in rigid metallic conduit, incorporating drip loops where entering fixtures and boxes, properly attached in unobtrusive locations.
- The Contractor shall contact P. G. & E. for service and power requirements.
- The Contractor shall make all splices, connections, tests and adjustments necessary to make all electrical equipment properly operable.

MECHANICAL

- The Contractor shall furnish and install all pipe, pipe fittings and equipment and make all connections, tests and adjustments necessary to make the system properly operable.
- All flanged fittings and equipment shall be Schedule 40 or C. I. Class 125.
- All steel pipe shall be Sch. 40 welded or flanged as shown. Pipe shall be wrapped where shown or elsewhere prepared for painting by thoroughly wire brushing and painted with two coats of "Rustoleum" No. 1069 Heavy Duty Rust Inhibitive Red Primer.
- All above ground piping, valves, meters, impeller casings shall be wrapped with 1" min. thickness fiberglass insulation overlain with canvas. The insulation shall not interfere with normal operation of the valve or pump.



WELLSITE No. 2
PLAN VIEW
No Scale

Pump Specifications

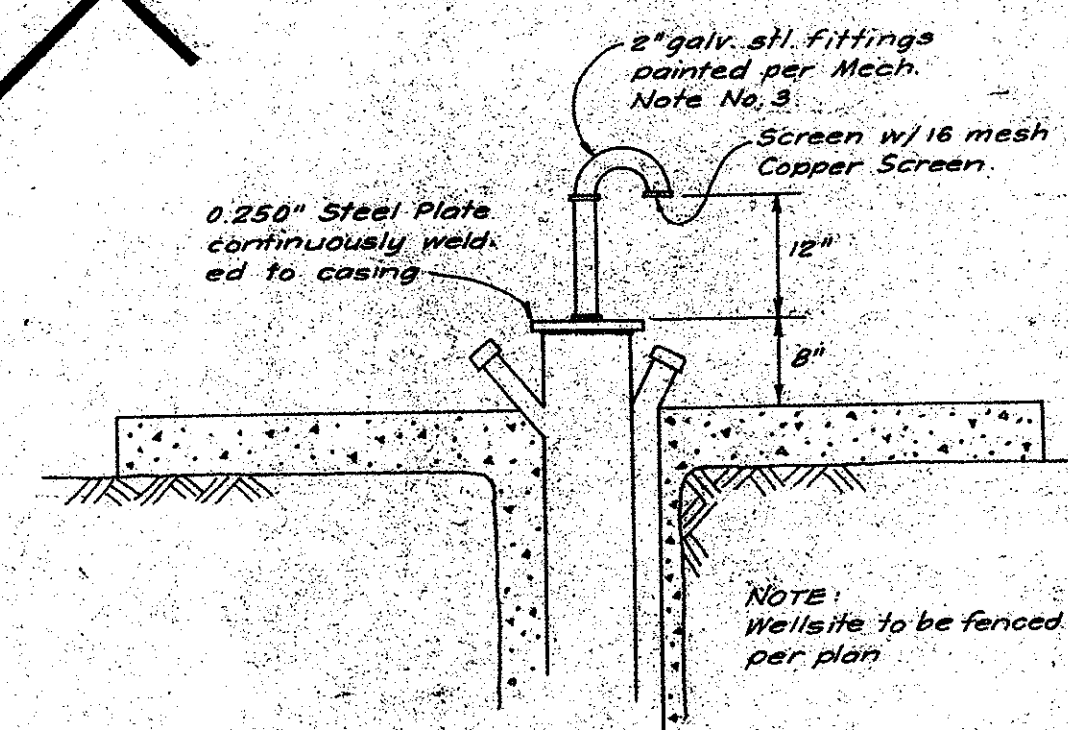
Peerless Submersible Turbine Pump to provide 140 gpm @ 15' ft.

Motor: 30 HP, 3450 rpm, 480 V, 60 Hz, 3 ϕ

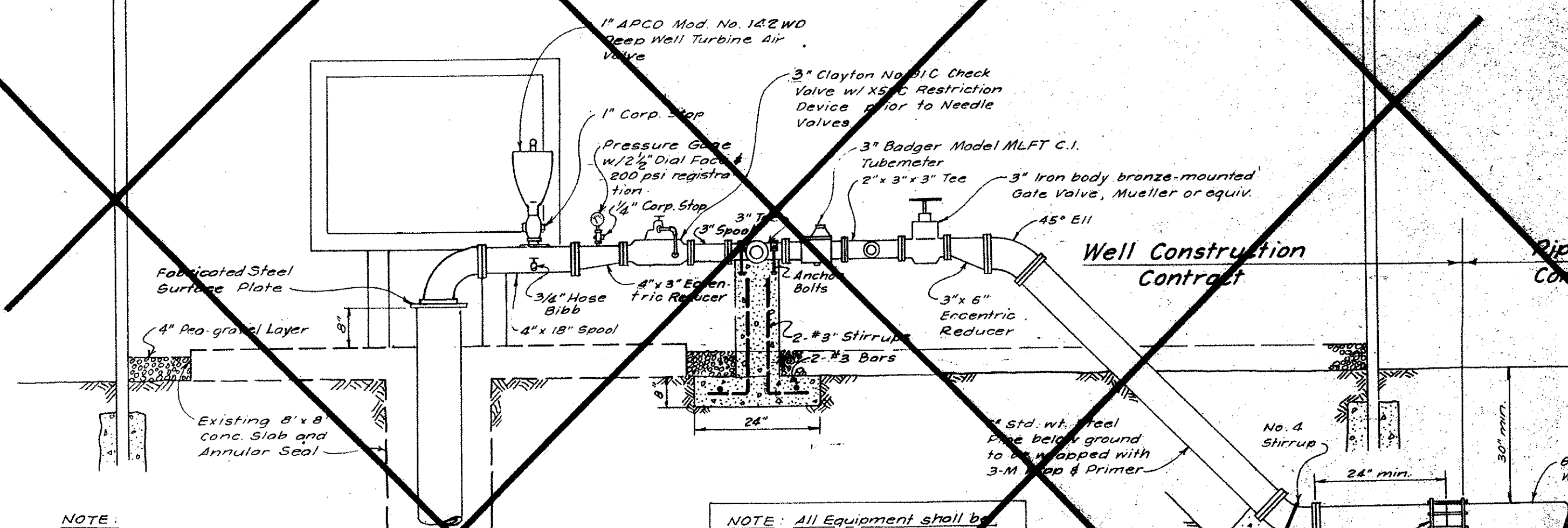
Bowl Assembly: 6 LB, 11 Stage

Column Pipe: 4" std. wt. galv. SH Pipe 420 L.F., 21 ft. Sections

Submersible Cable: No. 4, 3-wire



WELLSITE No. 2
ABANDONMENT DETAIL
No Scale



SECTION A-A
No Scale

NOTE: Extend as necessary existing 8 1/8" o.d. x 0.250" wall steel well casing, 2" galv. steel sounding tube and 3" galv. steel gravel injection pipe.

CLEANING AND DISINFECTION

The well shall be disinfected in accordance with the Dept. of Water Resources Bulletin No. 74 - "Water Well Standards", State of California, Appendix E.

SPECIAL NOTE: Contractor is to verify adequacy of construction of Shell Oil Company "Hustler" Well No. 1" adjacent southerly to this well.

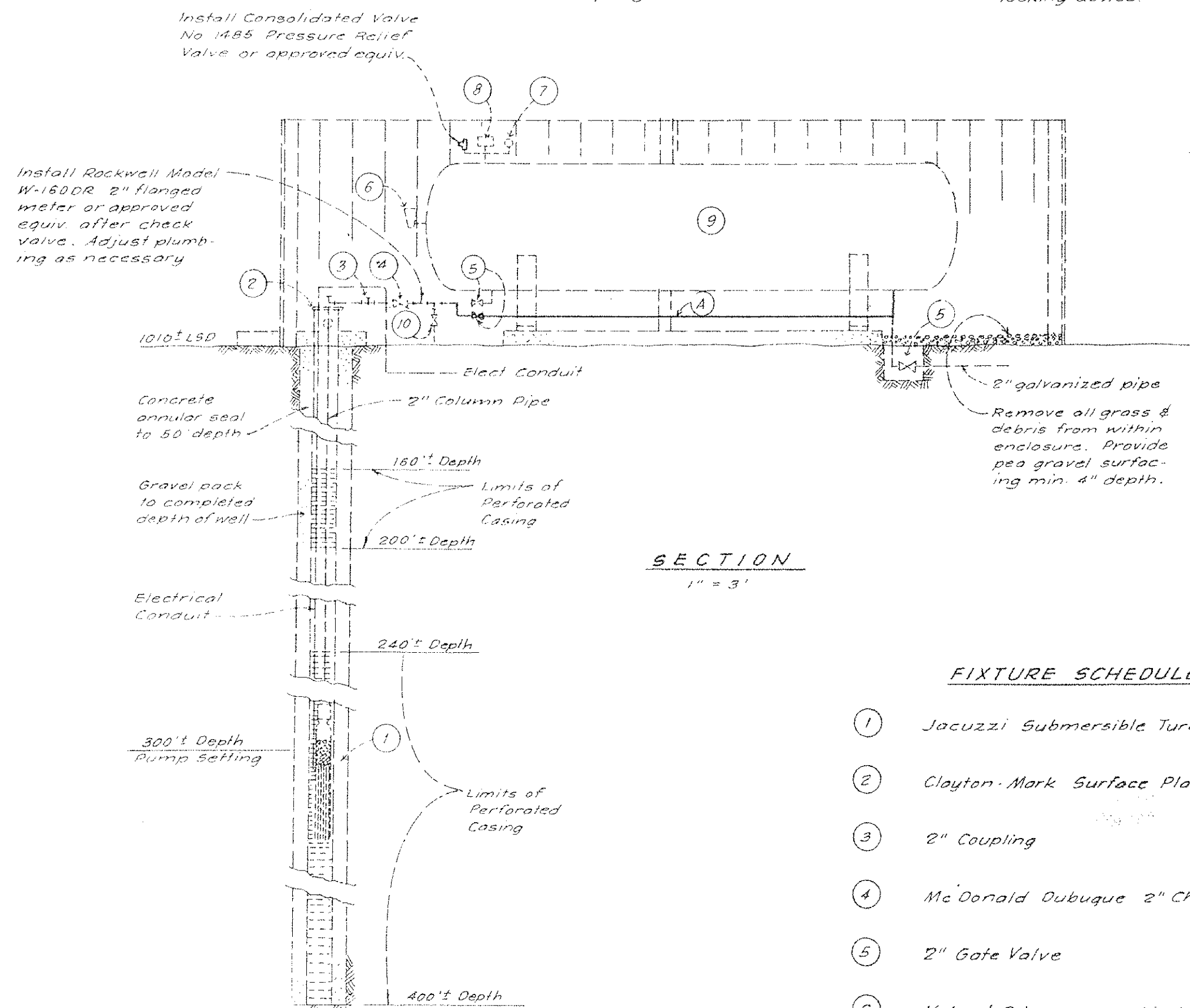
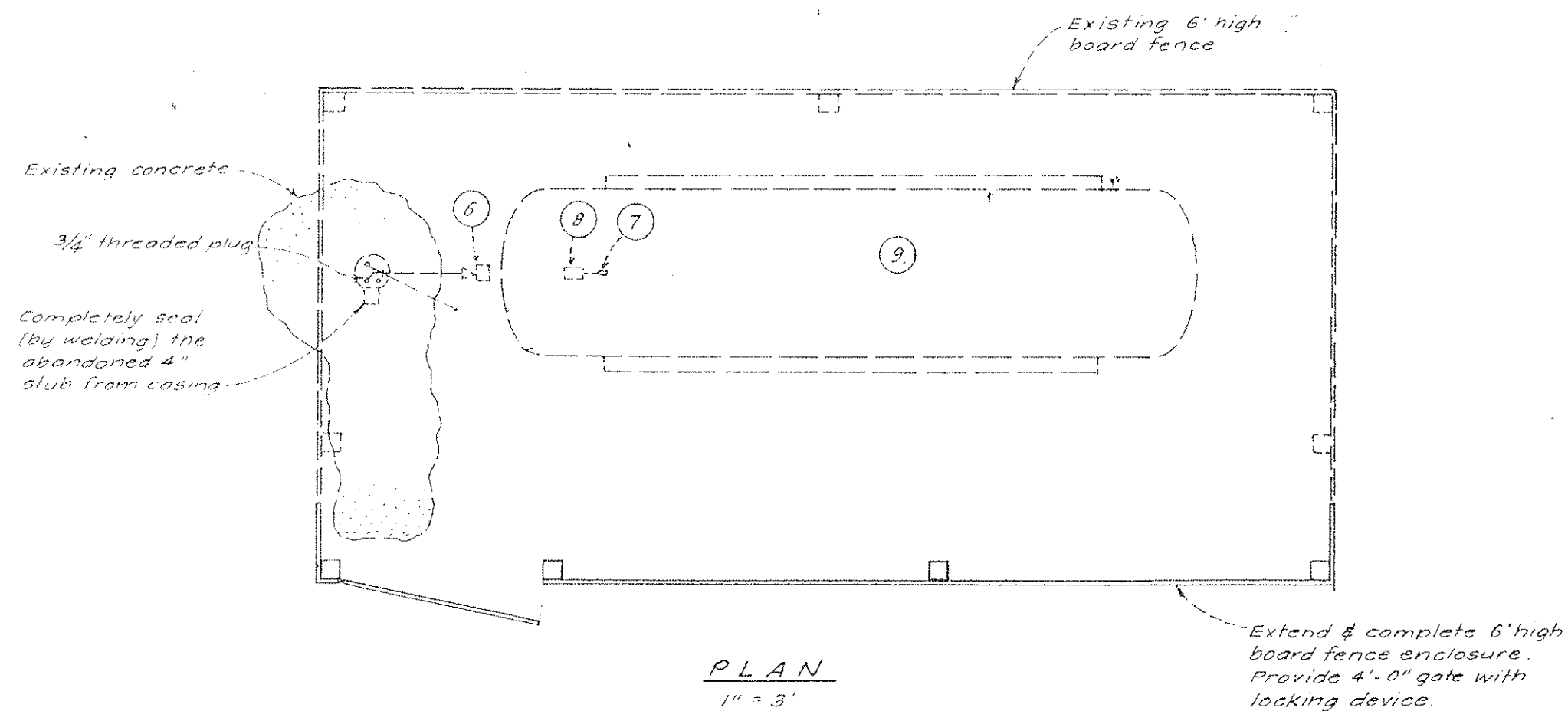
DESIGNED BY SGF		CHECKED BY		IMPROVEMENT PLANS TRACT No. 11,737 SANTA YNEZ VALLEY	
REVISOR		DATE		DESCRIPTION	
12-12-76		12/12/76		NEW SHEET	
12/12/76		12/12/76		AS-BUILT	
STREET DESIGN APPROVED				DATE	
BY: SANTA BARBARA COUNTY ROAD COMMISSIONER				DATE: 12 DEC 76	
SANTA BARBARA COUNTY CALIFORNIA U. S. GRANT & SON 314 E. CARRILLO ST. SANTA BARBARA, CALIFORNIA				SCALES NOTED	
SHEET 14 OF 17 SHEETS					



AS-BUILT

[illegible]

MODIFICATIONS - WELL No. 3 (Existing)



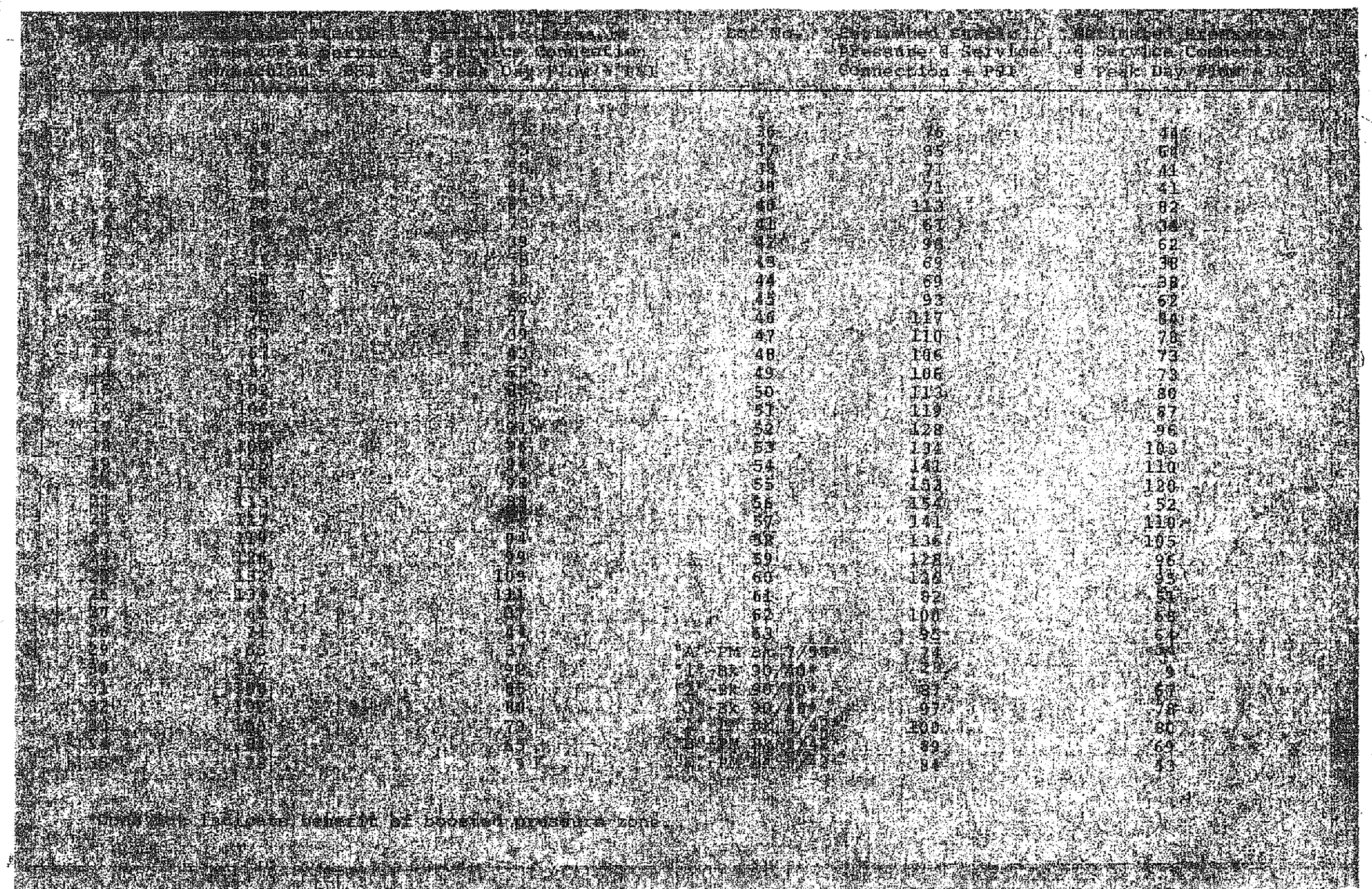
NOTE:
Abandon all service connections
to tank other than single connec-
tion to existing 4\" PVC pipeline.

FIXTURE SCHEDULE

- ① Jacuzzi Submersible Turbine Pump
- ② Clayton-Mark Surface Plate
- ③ 2\" Coupling
- ④ McDonald Dubuque 2\" Check Valve
- ⑤ 2\" Gate Valve
- ⑥ Valve & Primer Corp. Air Control Valve
- ⑦ Hydro-Gage 200 psi Registration Pressure Gauge
- ⑧ Square-D \"Pumptrol\" Type 9013 Class FSG2 Pressure Switch 80-100 psi setting
- ⑨ 1000 Gallon Pressure Tank
- ⑩ 1 1/4\" Gate Valve

WELL & PUMP DATA TABLE

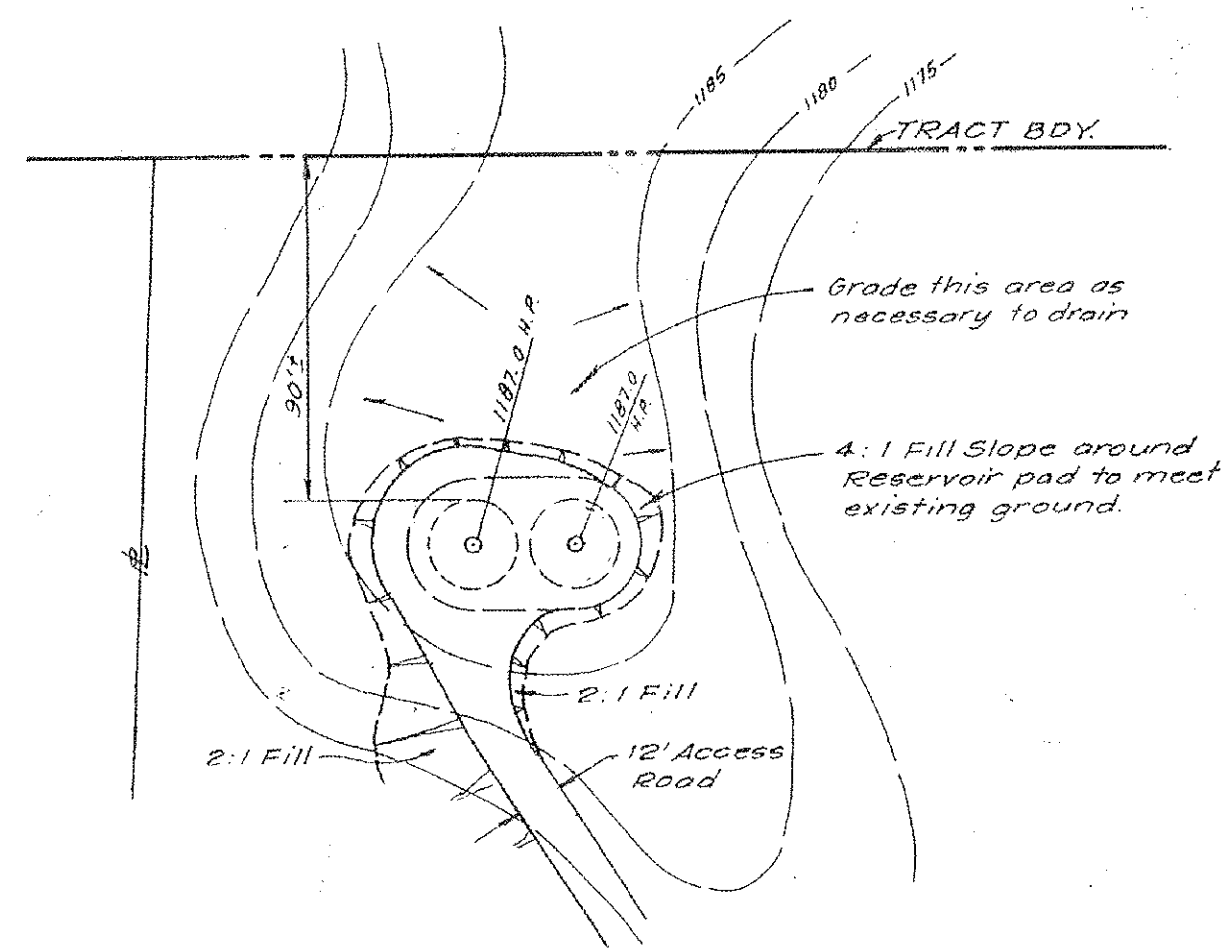
		WELL No. 2	WELL No. 3	WELL No. 4
1. DATE COMPLETED	JANUARY, 1976	JANUARY, 1976	AUGUST, 1971	OCTOBER, 1976
2. COMPLETED DEPTH	560 FT.	580 FT.	400 FT.	900 FT.
3. LAND SURFACE ELEVATION DATUM @ WELL-HEAD (LSD)	1055 ±	915 ±	1010 ±	940 ±
4. STATIC WATER LEVEL (DEPTH)	170 FT. ±	302 FT. ±	98 FT. ±	302 FT. ±
5. DYNAMIC WATER LEVEL (DEPTH)	430 FT. ±	—	270 FT. ±	470 FT. ±
6. CASING	8\" DIA. x 0.25\" STEEL	8\" DIA. x 0.25\" STEEL	8\" DIA. x 0.25\" STEEL	10\" DIA. x 0.25\" STEEL
7. LIMITS OF PERFORATIONS (DEPTHS)	280'-460' 520'-560'	400'-500' 560'-580'	160'-200' 240'-400'	505'-605' 700'-720' 770'-890'
8. ANNULAR SEAL	CONCRETE TO 60' DEPTH	CONCRETE TO 60' DEPTH	CONCRETE TO 50' DEPTH	CONCRETE TO 50' DEPTH
9. WELL PUMP SETTING (DEPTH)	490 FT. ±	—	300 FT. ±	530 FT. ±
10. WELL PUMP CHARACTERISTICS:				
TYPE	SUBMERSIBLE TURBINE		SUBMERSIBLE TURBINE	VERTICAL TURBINE
REQ'D PRODUCTION	65 GPM		50 GPM	315 GPM
DESIGN TDH	610 FT.		570 FT.	775 FT.
11. BOOSTER PUMP CHARACTERISTICS:				
TYPE	N.A.		N.A.	N.A.
REQ'D PRODUCTION	N.A.		N.A.	N.A.
DESIGN TDH	N.A.		N.A.	N.A.
12. PUMP CONTROL AND LOCATION	TELEMETRY, PRESS. BULB @ CISTERN No. 1		H-P TANK @ WELLSITE	TELEMETRY, PRESS. BULB @ CISTERN No. 2
13. CISTERN WATER LEVEL PUMP ACTIVATION-DEACTIVATION (LSD)	1180 1184		N.A.	1178 1180



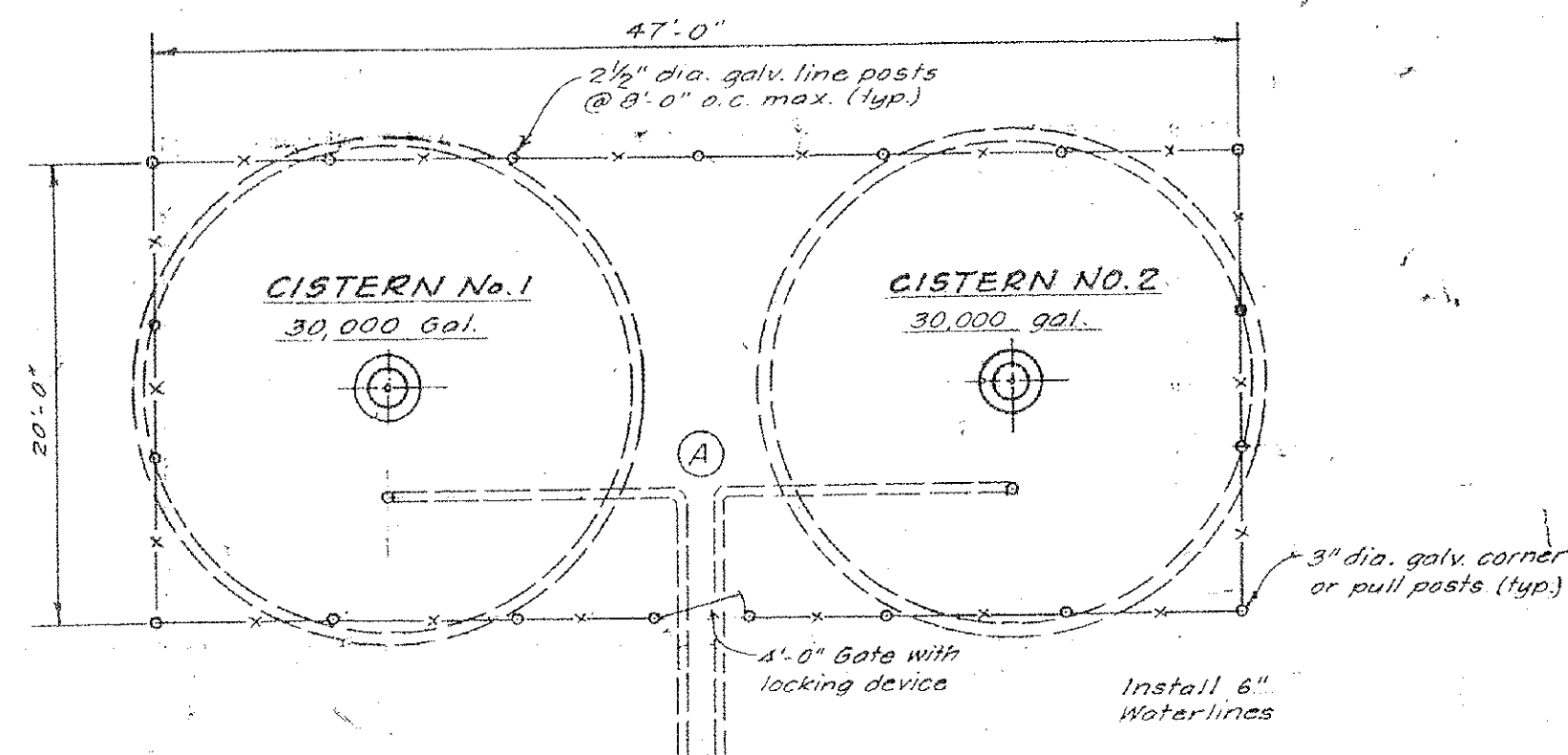
AS-BUILT

DESIGNED BY S.G.F.	IMPROVEMENT PLANS TRACT No. 11, 737 SANTA YNEZ VALLEY	
CHECKED BY R.T.F.		
DATE 21 Jan 76	DESCRIPTION Press. Tabulation	SANTA BARBARA COUNTY CALIFORNIA Robert J. Powers, R.E. 18324 DATE Jan 22, 1975 U. S. GRANT & SON 314 E. CARRILLO ST. SANTA BARBARA, CALIFORNIA
DATE 23 Apr 76	DESCRIPTION Well & Pump Tab.	
DATE 31 Jan 77	DESCRIPTION As-Built	
STREET DESIGN APPROVED DATE		
BY: SANTA BARBARA COUNTY PUBLIC WORKS DIRECTOR		SCALES HOR: 1\" = VER: 1\" =
SHEET 16 OF 17 SHEETS		

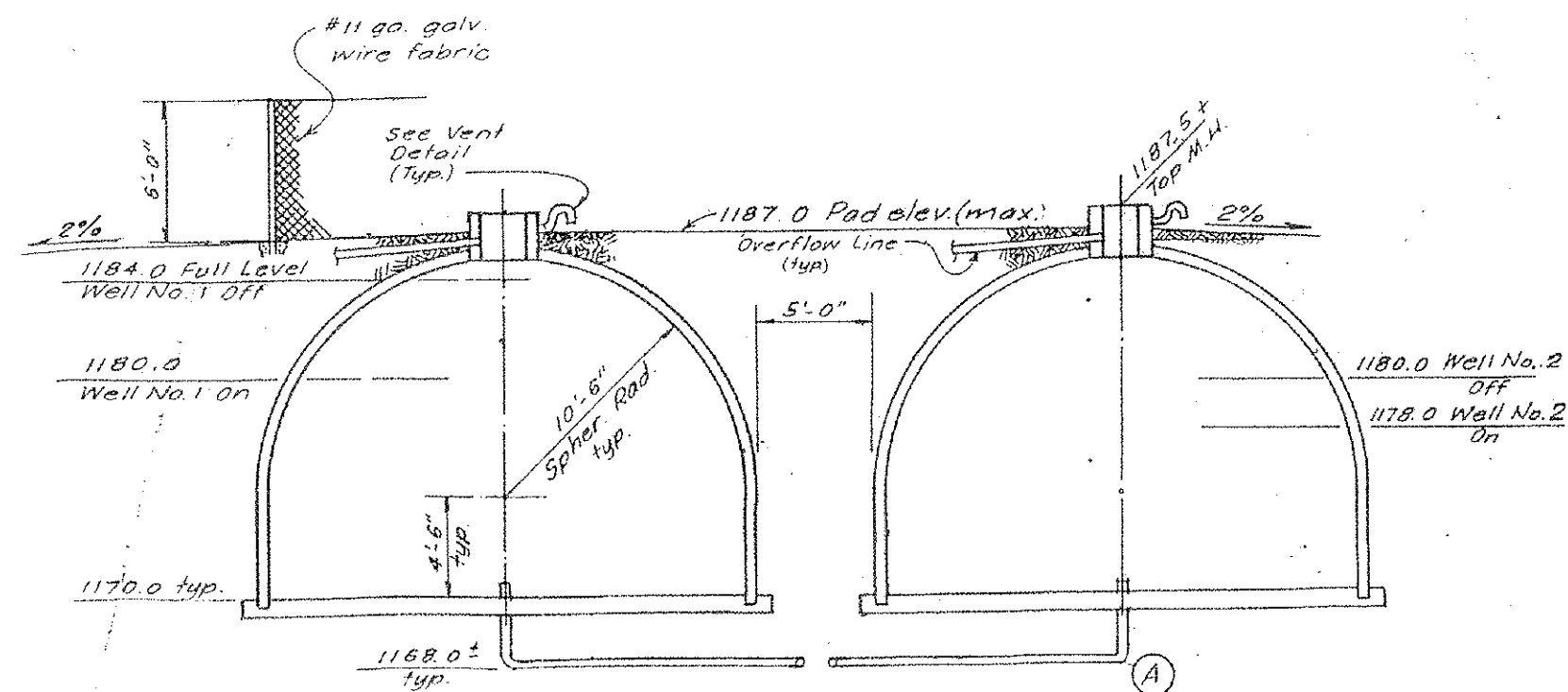
S. B. CO. FILE NO.



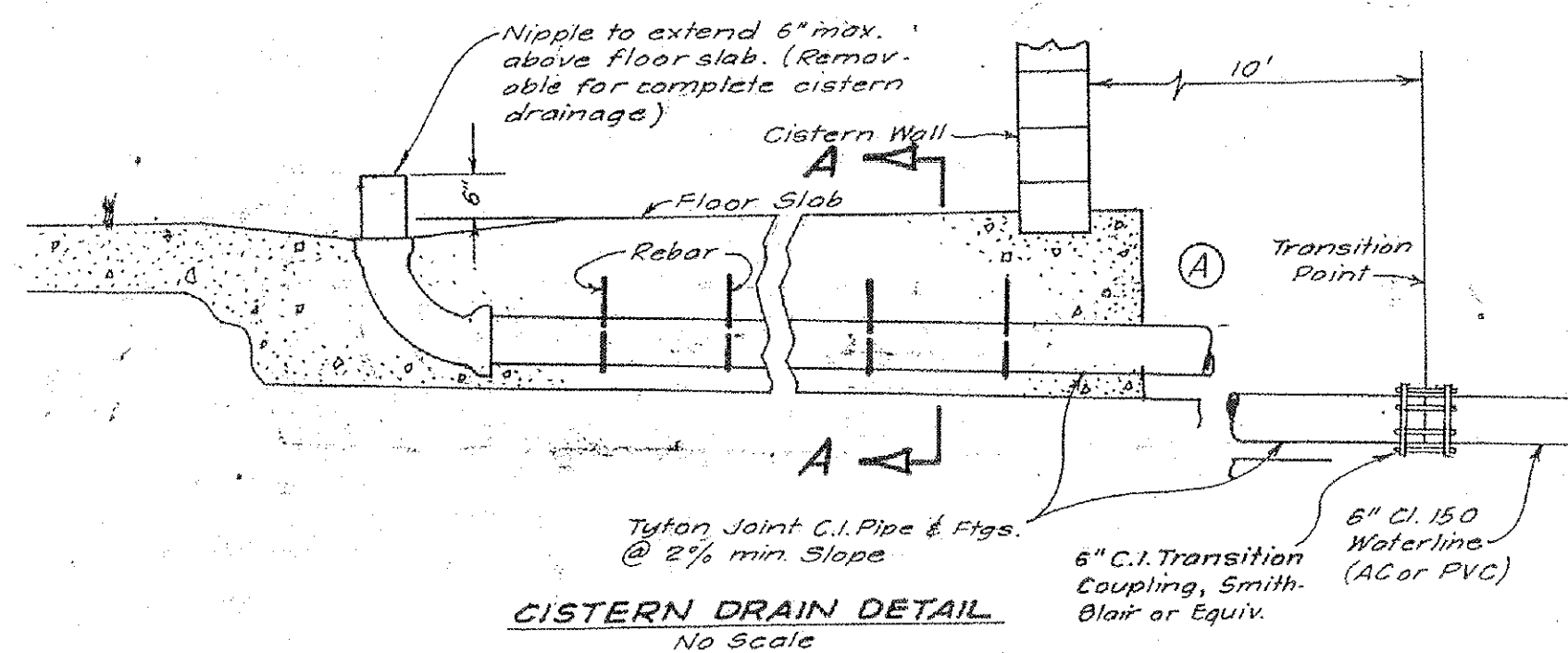
RESERVOIR SITE GRADING PLAN
Scale: 1"=50'



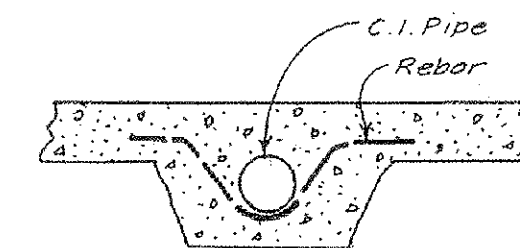
PLAN



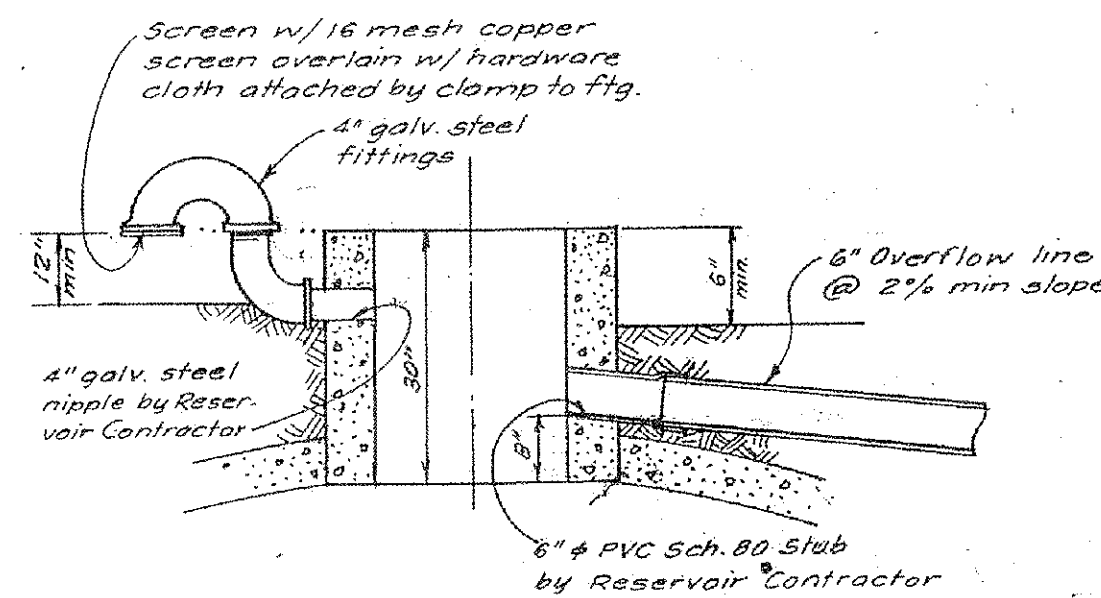
SECTION
RESERVOIR DETAILS
Scale: 1/8"=1'-0"



CISTERN DRAIN DETAIL
No Scale



SECTION A-A
No Scale



CISTERN VENT DETAIL
No Scale

RES INSTRUCTIONS NOTES

1. Reservoir shall be underground cistern type as constructed by Martin H. Jensen of Solvang, California, or equivalent.
2. Interface between steel surface plate and concrete masonry manway ring shall be sealed with mastic acceptable for use on potable (drinking) water systems.
3. Manway ring cover shall provide locking seal against water, insects, rodents and air-borne debris. Hatch cover shall be provided with (1) door (2) hinges and a latch and lock.
4. Each cistern shall be provided with 1" vent per detail this sheet.
5. Exposed metal surfaces shall be prepared for painting by thoroughly wire brushing and shall be painted with two coats of Rust-Oleum No. 1070 Heavy Duty Rust Inhibiting Red Enamel.
6. Each cistern shall be provided with 6" PVC Sch. 80 solvent weld overflow line (see sheet 1) and detail this sheet. Discharge openings shall be screened with 16 mesh copper screen overlain by hardware cloth firmly clamped to pipe. Where exposed to elements, pipe shall be wrapped with "3" wrap and primer.

7. Cistern drain lines shall be of Tyton joint cast iron pipe and fittings, shall penetrate the cistern and to a point 18" max. above ground level.

8. Telemetric equipment for automatic control of Well Pump No. 1 and Well Pump No. 2, with provision for one additional well, shall be installed by Automation Associates, Inc. (AAI). Pump activation and deactivation cistern water levels shall be as specified on Reservoir Details, this sheet.

A 3" PVC stilling well shall be installed in each cistern by the Reservoir Contractor in accordance with recommendations of AAI. Pressure sensing bulbs shall be installed in stilling wells by AAI personnel.

Telemetric set-point switch, metering, transmitting and power supply equipment, protected against line surges, shall be installed in a NEMA-4 enclosure by AAI personnel.

9. The cisterns shall be disinfected in the following manner:
 - a) All foreign material shall be removed from the structure by thorough flushing.
 - b) The interior of the structure shall be washed from the top downward by spraying or brushing with a solution of at least 50 PPM chlorine.
 - c) The structure shall be filled with a solution of at least 50 PPM chlorine and allowed to stand filled for a minimum of 24 hours.

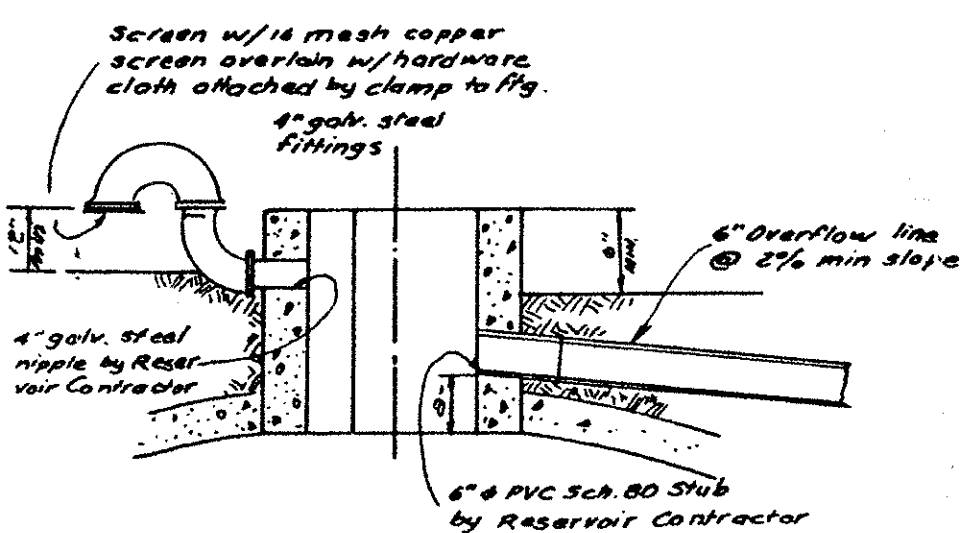
AS-BUILT

DESIGNED BY SGF	IMPROVEMENT PLANS TRACT No. 11,737 SANTA YNEZ VALLEY	
CHECKED BY	SANTA BARBARA COUNTY CALIFORNIA	
REVISED	Robert J. Flowers R.E. 18,324 DATE: Jan 21, 1976	
DATE DESCRIPTION	U. S. GRANT & SON 314 E. CARRILLO ST. SANTA BARBARA, CALIFORNIA	
Apr 23/76 Well No. 5 reversed	SCALES HOR: 1"= Noted VER: 1"=	
31 Jan 77 As-built	SHEET 12 OF 12 SHEETS	
STREET DESIGN APPROVED BY: SANTA BARBARA COUNTY PUBLIC WORKS DIRECTOR		

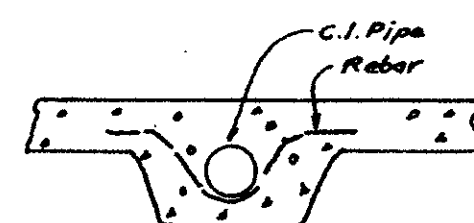
S.O. 7216

7216

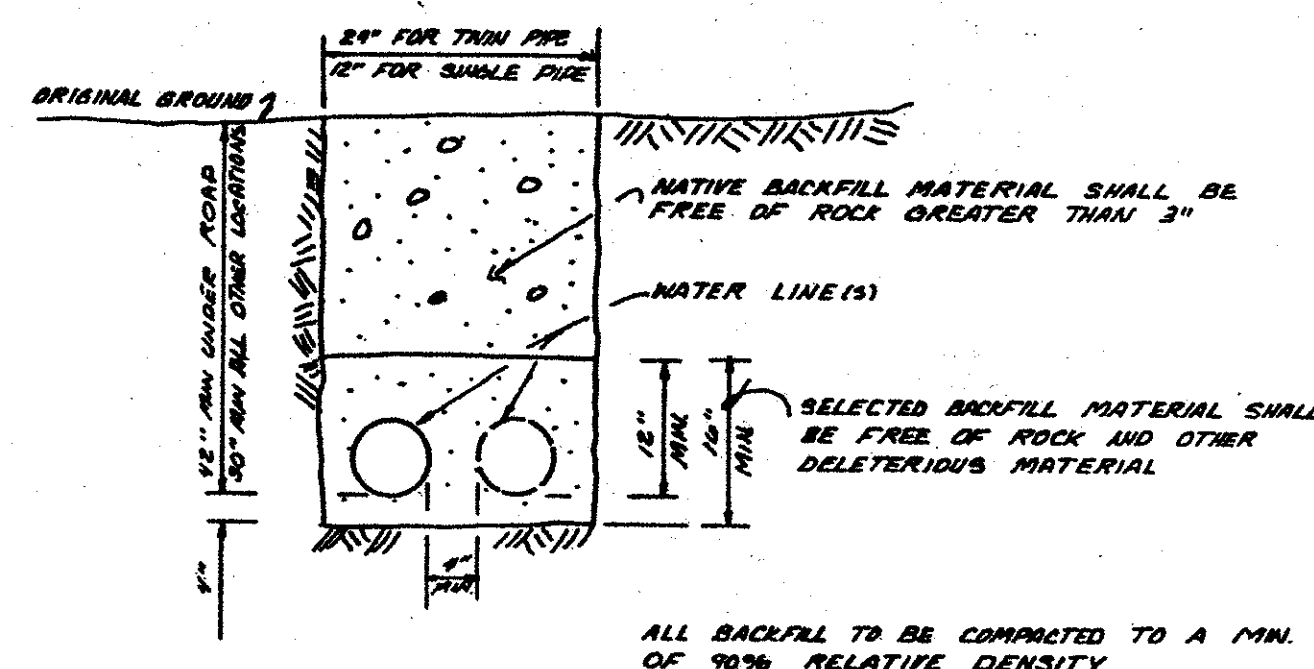
S. B. CO. FILE NO.



CISTERN VENT DETAIL
No Scale



SECTION A-A
No Scale

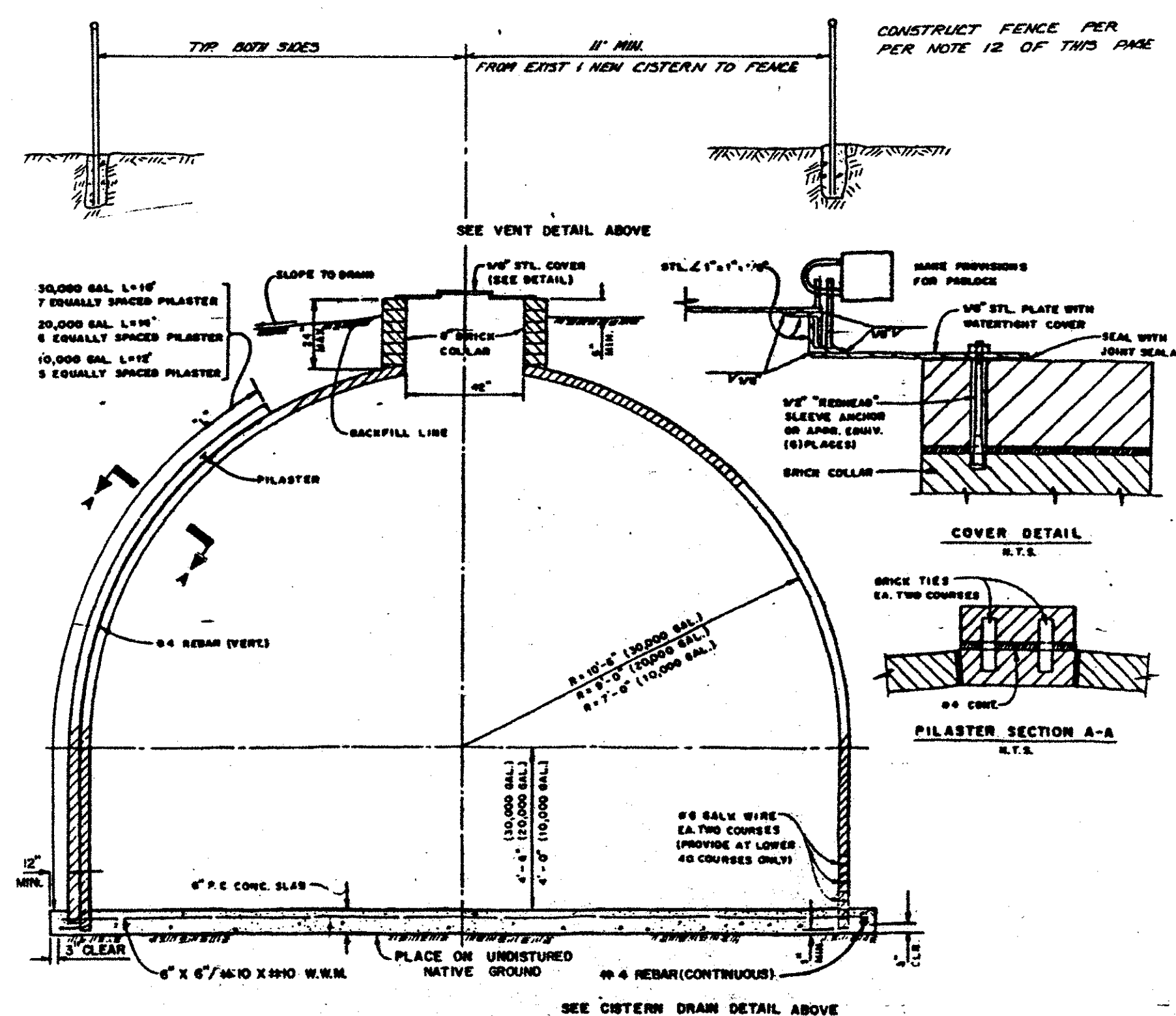
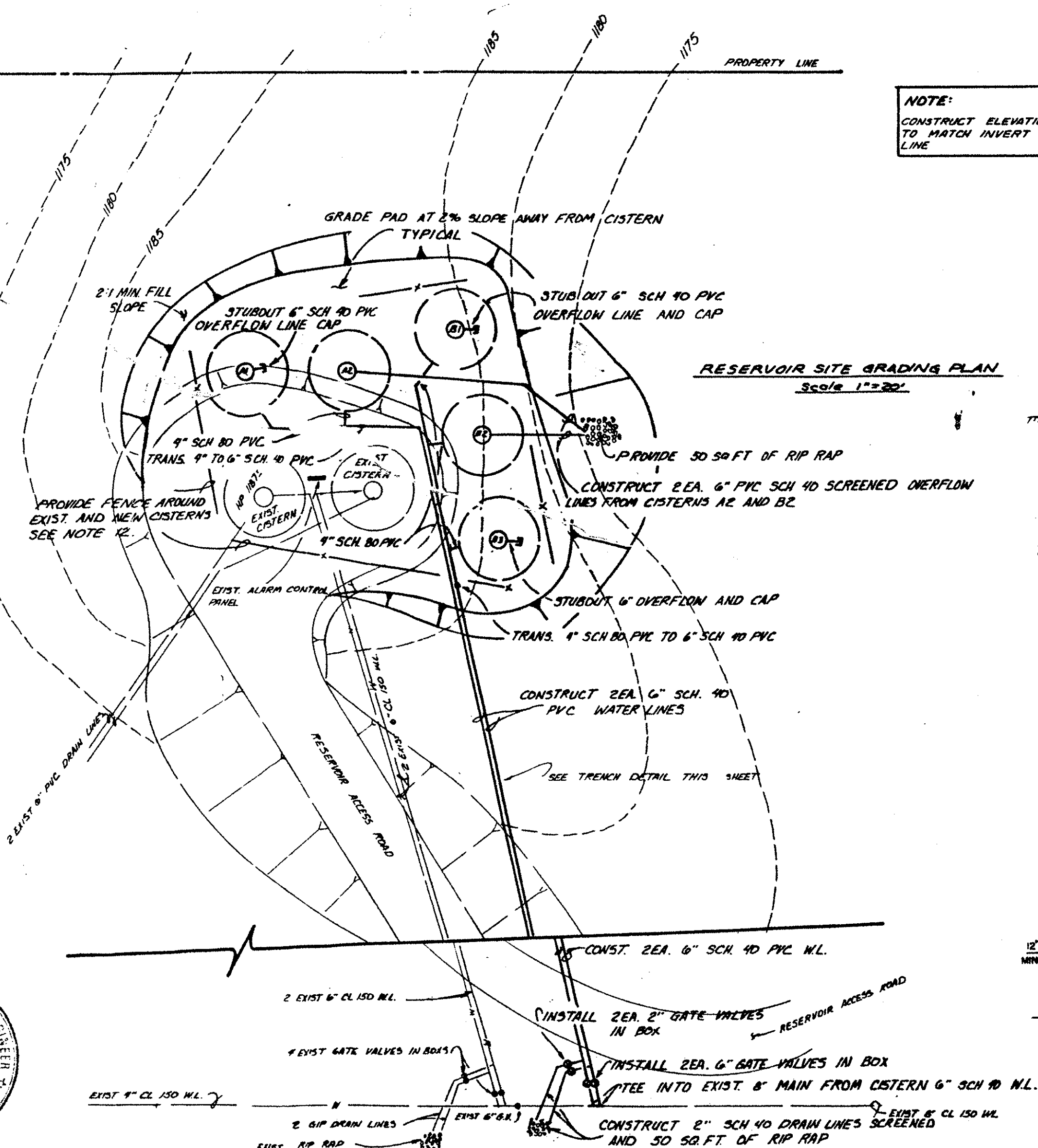


TYPICAL TRENCH DETAIL

NOTE

NOTE:

CONSTRUCT ELEVATION OF NEW CISTERN OVERFLOW LINE
TO MATCH INVERT ELEVATION OF EXIST. CISTERN OVERFLOW
LINE



CISTERN DETAIL

NO SCALE

SEE CISTERN DRAIN DETAIL ABOVE

PREPARED BY:

APPROVED:



MARTIN, NORTHART & SPENCER, INC.
CIVIL ENGINEERS • LAND SURVEYORS
414 EAST COTA STREET • SANTA BARBARA, CA. 93101

TELEPHONE (802) 245-8398 or 245-8330
THOMAS C. SIMONE #34611 DATE 3/24/86

OAK TRAILS ESTATE MUTUAL WATER COMPANY
P.O. BOX 836
SANTA YNEZ, CA. 93460

DOMESTIC WATER SYSTEM STORAGE MODIFICATION

PROJ NO. 9842

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