

LEGEND:
 (E) EXISTING GAS LINES
 (N) NEW 1/4" GAS LINES
 (N) NEW GAS SERVICE

REFER TO CAMPORA GAS FOR DETAILS

NO.	REVISIONS	BY	APP. DATE

WEATHERBY REYNOLDS
 CONSULTING ENGINEERS
 208 PARK ST., JACKSON, CA 95642 (209) 223-0381
 (209) 764-1137 FAX # (209) 223-0718

CONSTRUCTION PLANS FOR:
LAKERIDGE SUBDIVISION
UNIT NO. 1
 GAS IMPROVEMENTS
 CALAVERAS COUNTY, CALIFORNIA

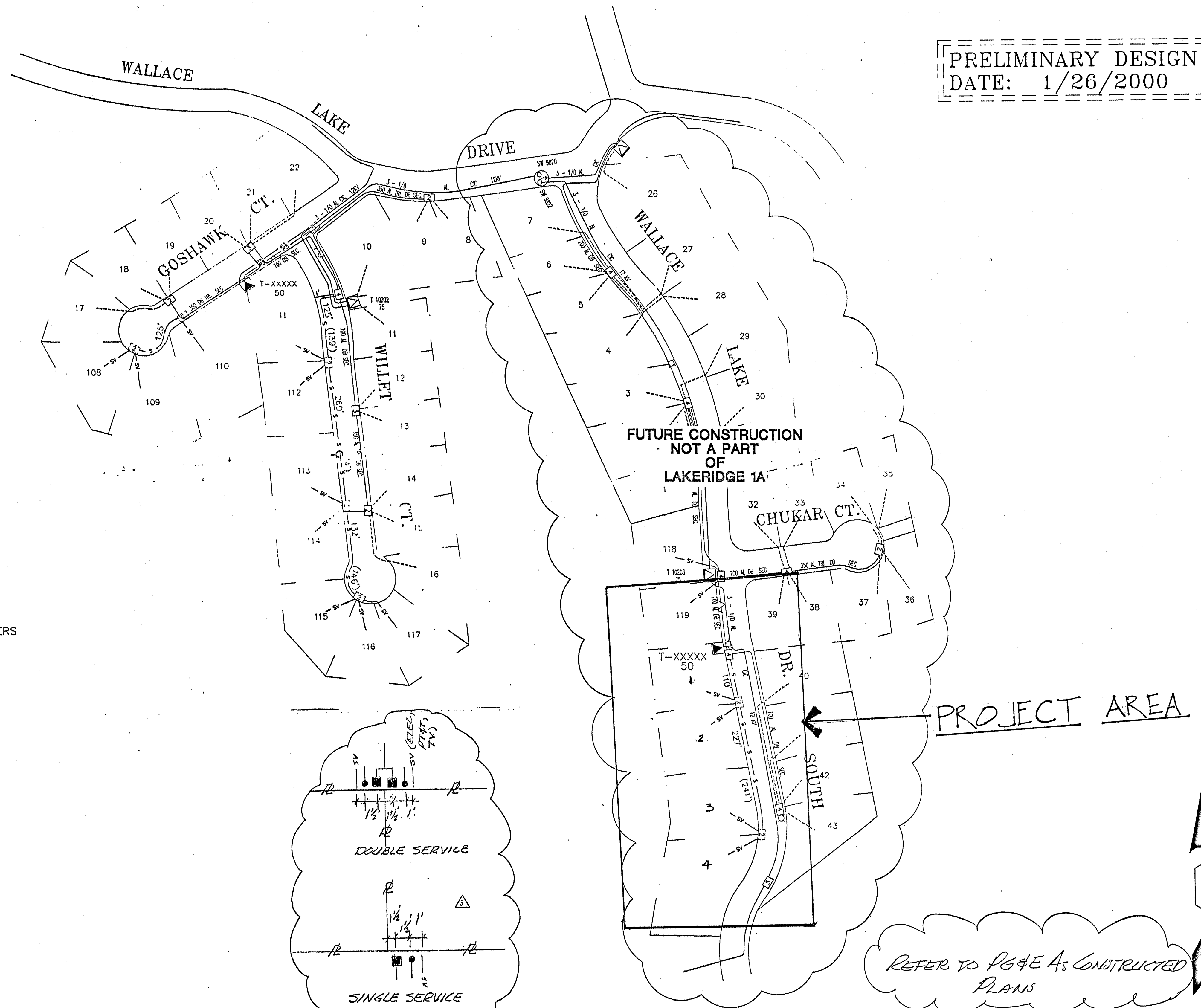
FILE NO.: P-5006
 SCALE: 1" = 50'
 DATE: 02-01-00

REGISTERED PROFESSIONAL ENGINEER
 EUGENE WEATHERBY
 No. 14774
 3-31-01
 CIVIL
 STATE OF CALIFORNIA

SHEET **4** OF 7 SHEETS

DESIGN: EW DATE: 02-01-00
 DRAWN: TKG DATE: 02-01-00
 CHECKED: EW DATE: 02-01-00

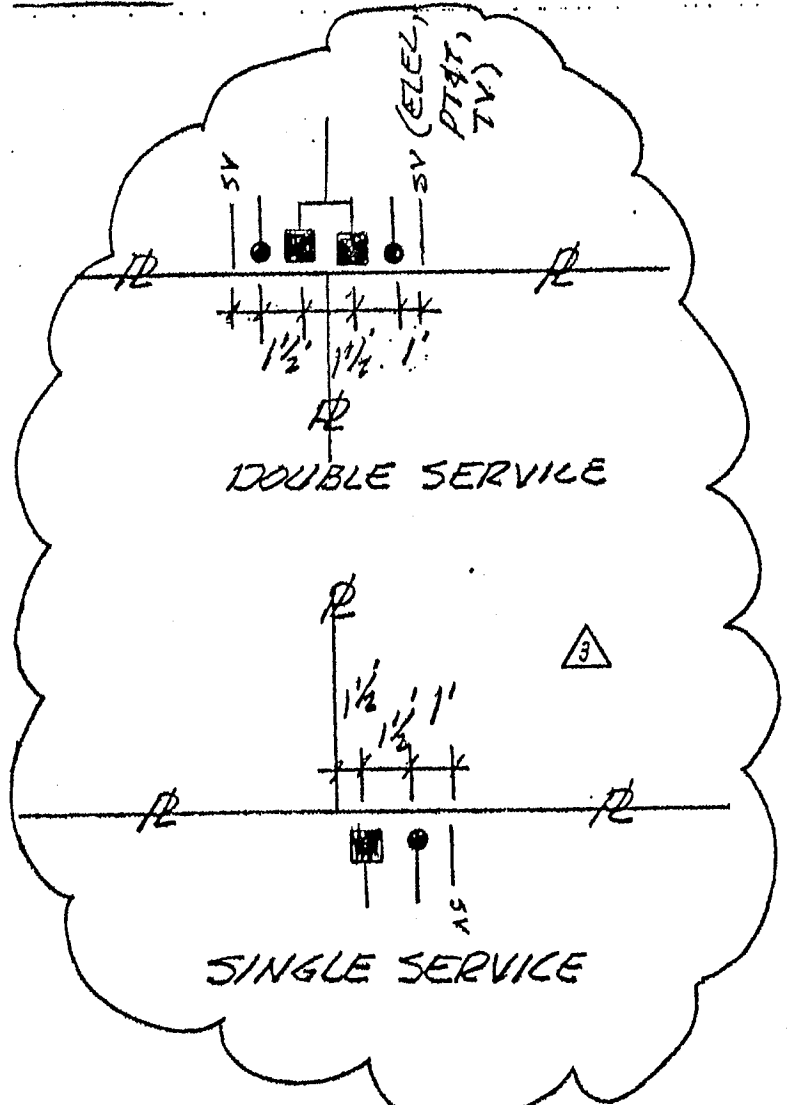
PRELIMINARY DESIGN
DATE: 1/26/2000



- NOTES:**
1. ALL TRENCHING, EXCAVATION, BACKFILLING, SUBSTRUCTURES, & CONDUITS TO BE DONE BY APPLICANT.
 2. APPLICANT IS RESPONSIBLE RETAINING WALLS, MAINTAINING WORK SPACE, & MECHANICAL PROTECTION AROUND TRANSFORMERS & SPLICE BOXES PER DWG. 051122.
 3. SERVICE TO BE RUN ON INDIVIDUAL BASIS AT FUTURE DATES.
 4. TRENCHES UNDER PAVING SHALL BE BACKFILLED WITH CONTROLLED DENSITY BACKFILL. SEE DETAIL SHEET 4 OF 6
 5. SEE SHEET 4 FOR JOINT TRENCH DETAIL

LEGEND:

- INSTALL**
- 3 - 1/0 AL ENCAP IN APPLICANT'S 4" DUCT
 - 350 AL TRI. SECONDARY IN APPLICANT'S 3" DUCT
 - FUTURE 4/0 AL TRI SERVICE IN 3" DUCT
 - PADMOUNT TRANSFORMER SIZE AS SHOWN
 - 3' X 5' PRIMARY FULL TRAFFIC SPLICE BOX
 - 17" X 30" SECONDARY SPLICE BOX
- EXISTING**
- 3 - 1/0 AL CIC 12KV PRIMARY
 - SECONDARY CABLE SIZE AS SHOWN
 - EXISTING PROPOSED SERVICE LOCATION
 - SUBSURFACE SWITCH
 - PADMOUNT TRANSFORMER
 - 30" X 48" SECONDARY SPLICE BOX
 - 24" X 36" SECONDARY SPLICE BOX
 - 17" X 30" SECONDARY SPLICE BOX



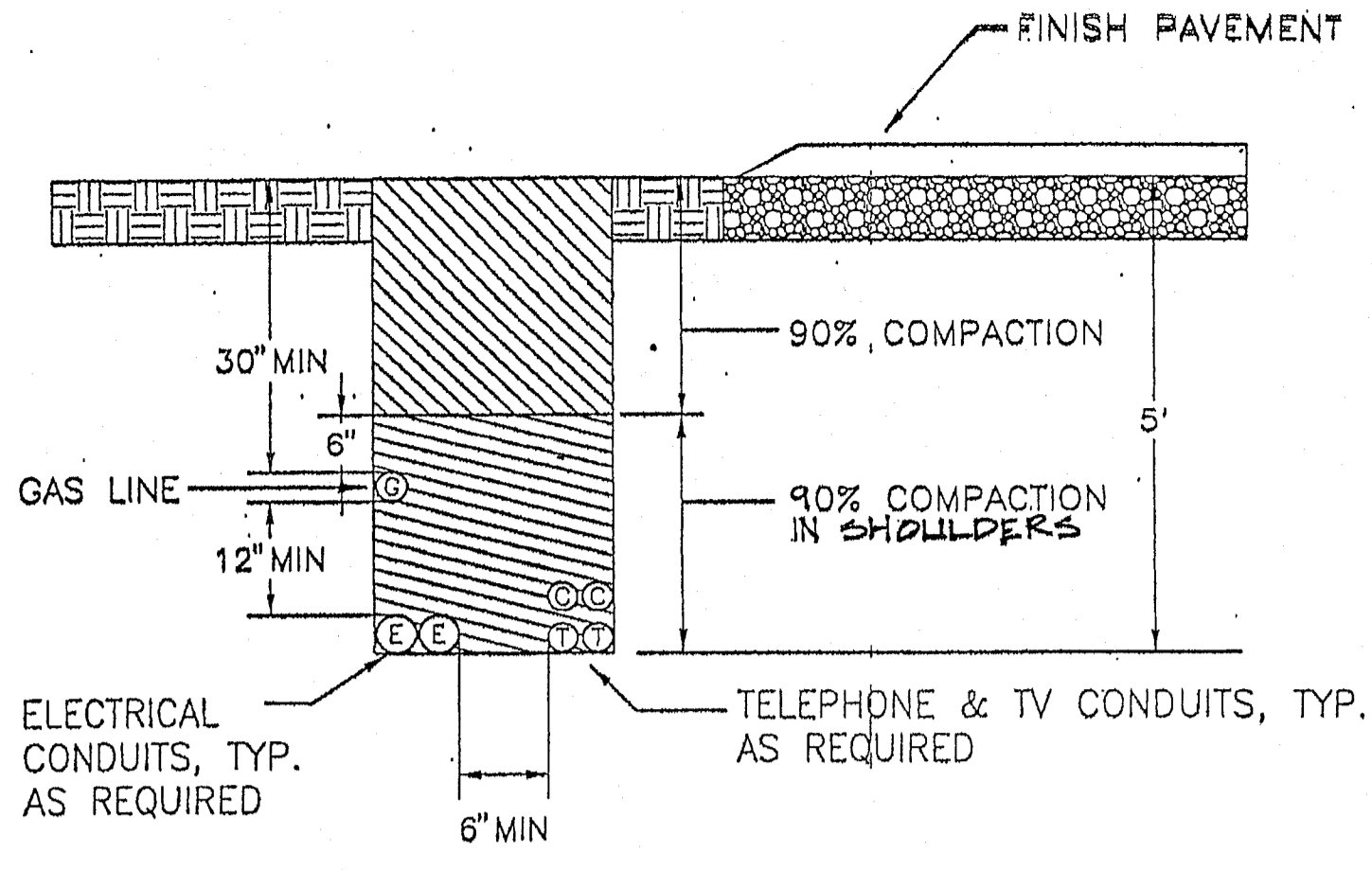
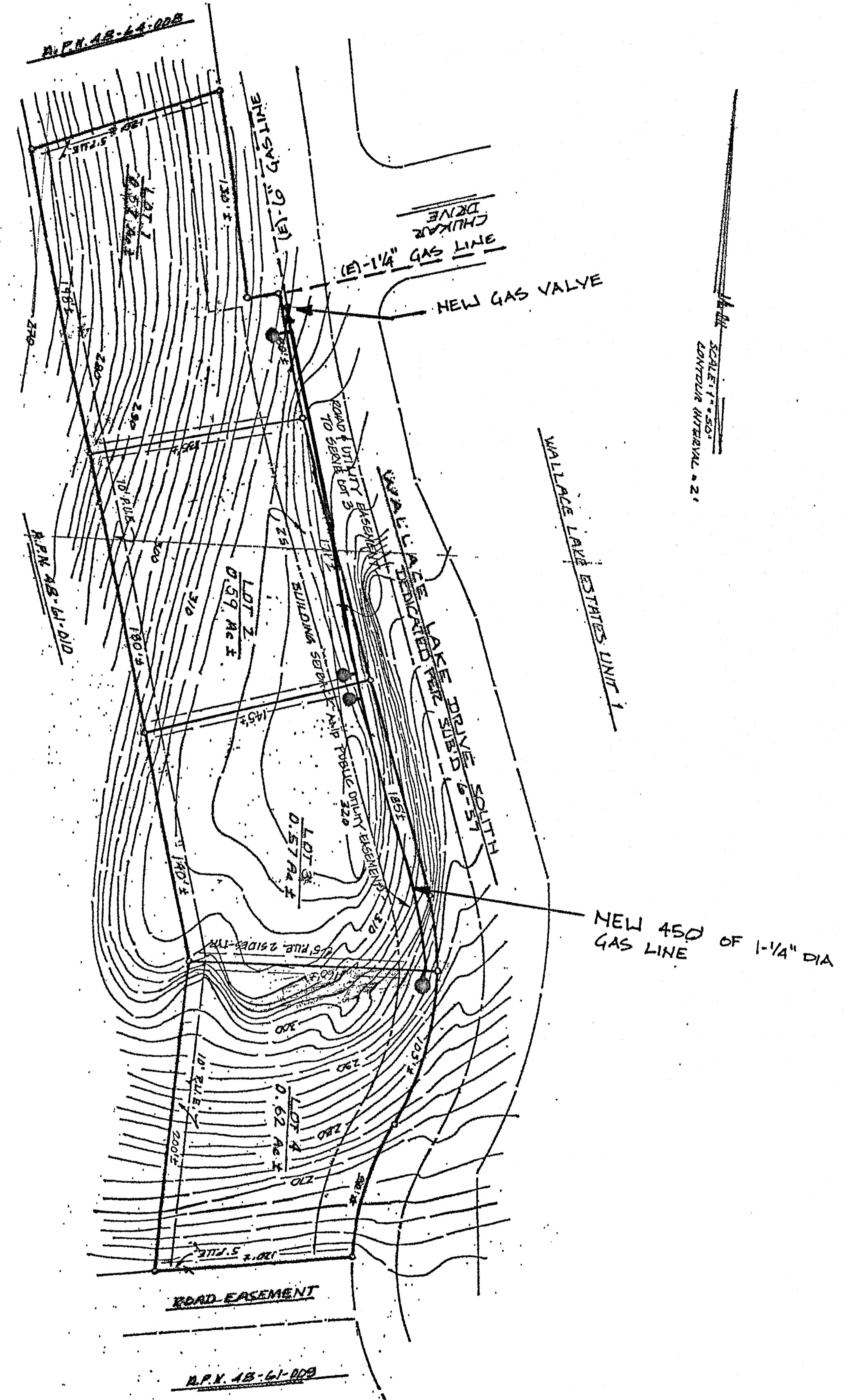
PROJECT AREA

REFER TO PAGE AS CONSTRUCTED PLANS

AS CONSTRUCTED

SHEET 5 OF 6
9/21/03

CO: 6030983	SD: 073560576	NOTE: 10069907	Other: UFD INSTALLATION	SHEETS: 1 OF 2	REV.:
ENGINEERING AND PLANNING DEPT.					
1108 MURPHY'S GARDE RD.					
ANGELS CAMP, CA 95222					
PHONE #:	FAX #:	PACIFIC GAS AND ELECTRIC COMPANY			
EST: K.M.	DATE: 01/25/00	SCALE: 1"=100'			
AD: K.M.	DATE:	SCALE:			
SUPV: A.M.D.	DATE:	SCALE:			
REP: Jeff Blonic	DATE:	SCALE:			
PLNR:	DATE:	SCALE:			
ORDER #	DATE:	SCALE:			
DESCRIPTION	DATE:	SCALE:			
NO.	DATE:	SCALE:			
LAKERIDGE SUBDIVISION					
RICK McGRAFF					
WILLET CT. & WALLACE LAKE DR. S.					
WALLACE					

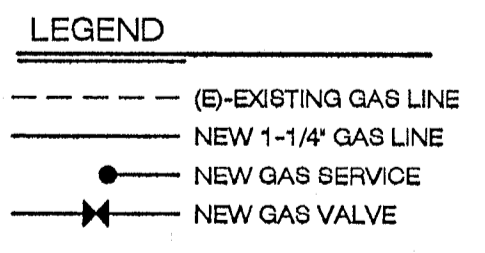


NOTES:
 JOINT TRENCH SHALL COMPLY WITH P G & E RULES

REVISION	DATE	WALLACE COMMUNITY SERVICES DISTRICT CALAVERAS COUNTY	APPROVED BY
		JOINT UTILITY TRENCH IN EASEMENT	WALLACE COMMUNITY SERVICES DISTRICT PRESIDENT NOVEMBER 2001
			IMPROVEMENT STANDARD NO. U-1

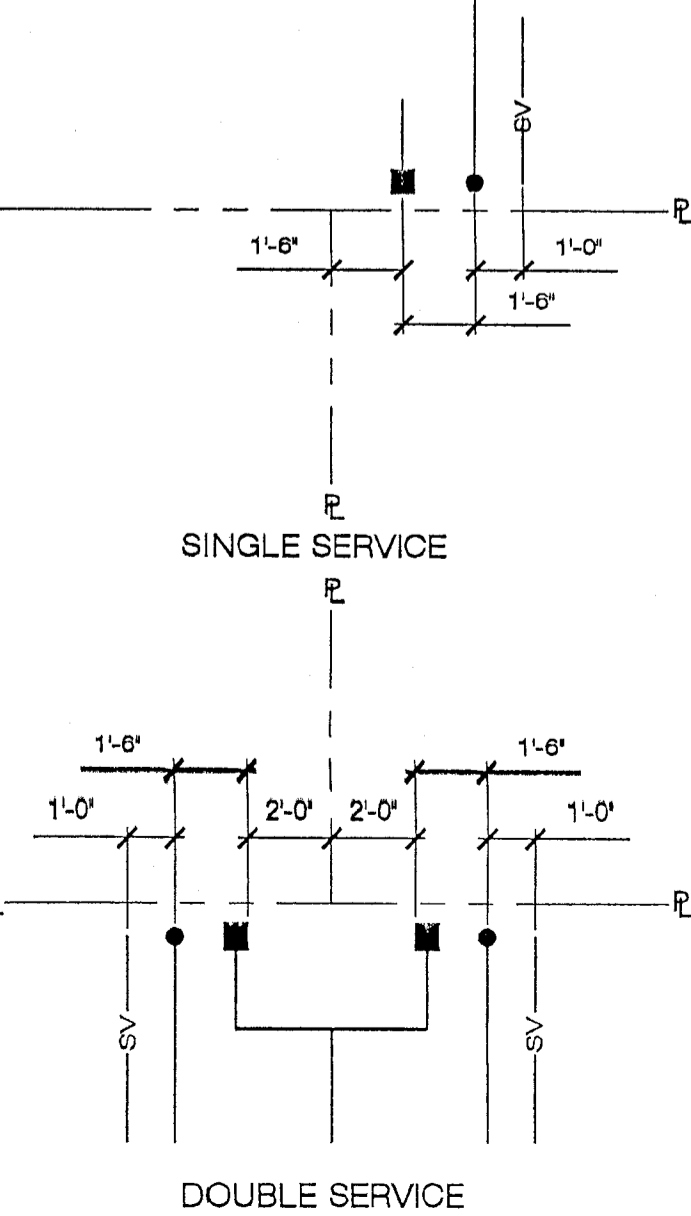
- PART 1 - GENERAL
- 1.01 STANDARDS
- A. Gas service shall conform to paragraphs 1-4, 6-10, & 12 of Section 2, Gas, of "Electric & Gas Service Requirements", by Pacific Gas & Electric Company, 1995.
- PART 2 - MATERIALS
- 2.01 POLYETHYLENE PLASTIC PIPE
- A. Polyethylene plastic pipe shall meet the requirement of ASTM D2513, "Standard Specification for Thermoplastic Gas Pressure Pipe, Tubing and Fittings."
- B. Polyethylene plastic pipe shall have a maximum SDR (ratio of pipe diameter to wall thickness) equal to 11.5, and standard pipe lengths equal to 40 feet. Working pressure shall be 100 psig.
- 2.02 SOCKET FITTINGS
- A. Socket fittings shall conform to ASTM D2683.
- 2.03 BUTT-FUSION FITTINGS
- A. Butt-fusion fittings shall conform to ASTM D2513, molded.
- 2.04 RISER
- A. Riser shall consist of a manufacturer's standard transition fitting, transition from plastic to 7 mil to 12 mil thick epoxy-coated steel pipe and swaged gas-tight with O-ring seals and metal insert. Provide manufacturer's standard protection sleeve and riser supports as required.
- 2.05 GAS PRESSURE REDUCING VALVES
- A. Gas pressure reducing valves shall be sized for load and inlet conditions and shall be provided with low pressure cut-off and internal over pressure relief. Where meter is inside buildings, pipe relief discharge to outside of building. Gas pressure reducing valves shall conform to P.G. & E requirements and shall be Rockwell; Fischer; or equal.
- 2.06 GAS METER
- A. Gas meter shall be a pedestal mounted, diaphragm, bellows, or turbine style, as required, sized for load and inlet conditions. Gas meter shall have aluminum or enamel coated steel case with resettable counter. Furnish combined register totalizer with escape hole in housing, and means for sealing against tampering. Gas meter shall conform to P.G. & E requirements and shall be Rockwell; Fischer; or equal.
- 2.07 VALVE BOXES
- A. Valve boxes shall be manufactured of a high density reinforced concrete with a minimum compressive strength of 4000 PSI. Boxes shall have a belted top or flared shoulders to prevent settling and an integral cast iron seat of the rattle proof design and a cast iron lid. The box and lid shall be H-20 rated.
- B. Valve box lids shall be manufactured of cast iron with machined seating surfaces. Lids shall be provided with cast-in markings indicating "Gas". Lids with welded markings will not be acceptable.
- C. Extensions shall be as manufactured for the box or 8" Class 100 PVC pipe. Grade rings for adjusting the box shall be as manufactured for the box.
- D. The valve box shall be Christy G5; Brooks; or equal.
- 2.08 LOCATOR WIRE
- A. Locator Wire shall be #12 UF conforming to NEMA standards and NEC Article 339 for direct burial. Splicing of wire shall be made with a water proof epoxy splice kit.
- 2.09 MISCELLANEOUS MATERIALS
- A. Any incidental material or equipment not mentioned in these specifications or shown on the plans which may be necessary for completion and successful operation of the gas service system, or required by the Utility Company, shall be furnished and installed as though shown or provided for.

- CONSTRUCTION NOTES
- PART 2 - MATERIALS
- 2.01 PVC SEWER PIPE
- A. Sewer pipe used for gray water from septic tank systems shall be Schedule 40 polyvinyl chloride pipe for solvent weld applications.
- B. Fittings shall be schedule 40 PVC.
- C. Solvent weld cleaner and glue shall be as approved by the pipe manufacturer.
- PART 3 - CONSTRUCTION
- 3.01 MAIN LINES
- A. Gray water sewer main lines shall be installed on a uniform slope without deviation from the grade line. Lines shall be sloped to achieve a minimum velocity of 2 feet per second.
- 3.02 LATERALS
- A. Laterals between septic tank and the main line shall be installed at a uniform slope not less than 2%.
- Trenches under paving shall be backfilled with controlled density backfill, see Detail Sheet 4 of 6.



NOTES:

- GAS LINE SHALL BE IN JOINT UTILITY TRENCH. SEE DETAIL ON SHEET 4.
- DETAILS REFER TO P.G.&E. DRAWINGS 0781E19636 (3 SHEETS) FOR WALLACE ESTATES UNIT 1.
- A REPRESENTATIVE FROM CAMPORA PROPANE SERVICE SHALL INSPECT ALL GAS SERVICE LINES AND TRANSMISSION LINES PRIOR TO CONNECTION TO EXISTING MAIN AND PRIOR TO BACKFILLING TRENCHES. CAMPORA PROPANE SERVICE SHALL BE RESPONSIBLE FOR SHUTTING DOWN EXISTING MAIN GAS LINES. CONTRACTOR TO CONTACT DAVE LIGON AT CAMPORA PROPANE SERVICE (209-736-0449) AT LEAST 48 HOURS PRIOR TO START OF GAS LINE CONSTRUCTION.



APPROVALS

THIS DRAWING IS NOT FINAL AND IS NOT TO BE USED FOR CONSTRUCTION UNTIL STAMPED AND WET-SIGNED BY THE PROJECT ENGINEER.

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.

MARK

DESCRIPTION

PLAN CHECK

PLAN CHECK

DATE

08/2006

01/2007

REVISIONS

CLIENT:

MAILING ADDRESS:

STERLING BUILDERS

3070 W. COCHRAN AVE, SUITE 205A

BEAUFORT, CA 94966

(925) 846-9138

IMPROVEMENT PLANS FOR:

LAKERIDGE UNIT 1B

A PORTION OF

WALLACE LAKE ESTATES

WALLACE LAKE ESTATES, UNIT 1, TRACT 434

WALLACE - CALIFORNIA

WEATHERBY REYNOLDS FRITSON

ENGINEERING AND DESIGN

REGISTERED PROFESSIONAL ENGINEER

LORENE WEATHERBY

No. 14774

LIC. EXP. 03/31/07

CIVIL

STATE OF CALIFORNIA

(209) 223-0381 (Voice)

(209) 223-0716 (Fax)

206 Peck Street

Jackson, CA 95642

http://www.wrfed.com

THESE DRAWINGS AND THE CONCEPTS EMBODIED THEREIN ARE THE ORIGINAL UNPUBLISHED WORK OF THE ENGINEERING AND DESIGN AND SHALL NOT BE REPRODUCED OR COPIED WITHOUT THE WRITTEN AGREEMENT OF TERRY WEATHERBY, GRANT REYNOLDS, OR KEVIN FRITSON.

DRAWINGS

GAS LINE

IMPROVEMENT

PLAN AND NOTES

FILE NO. D-5598

DRAWN BY JL

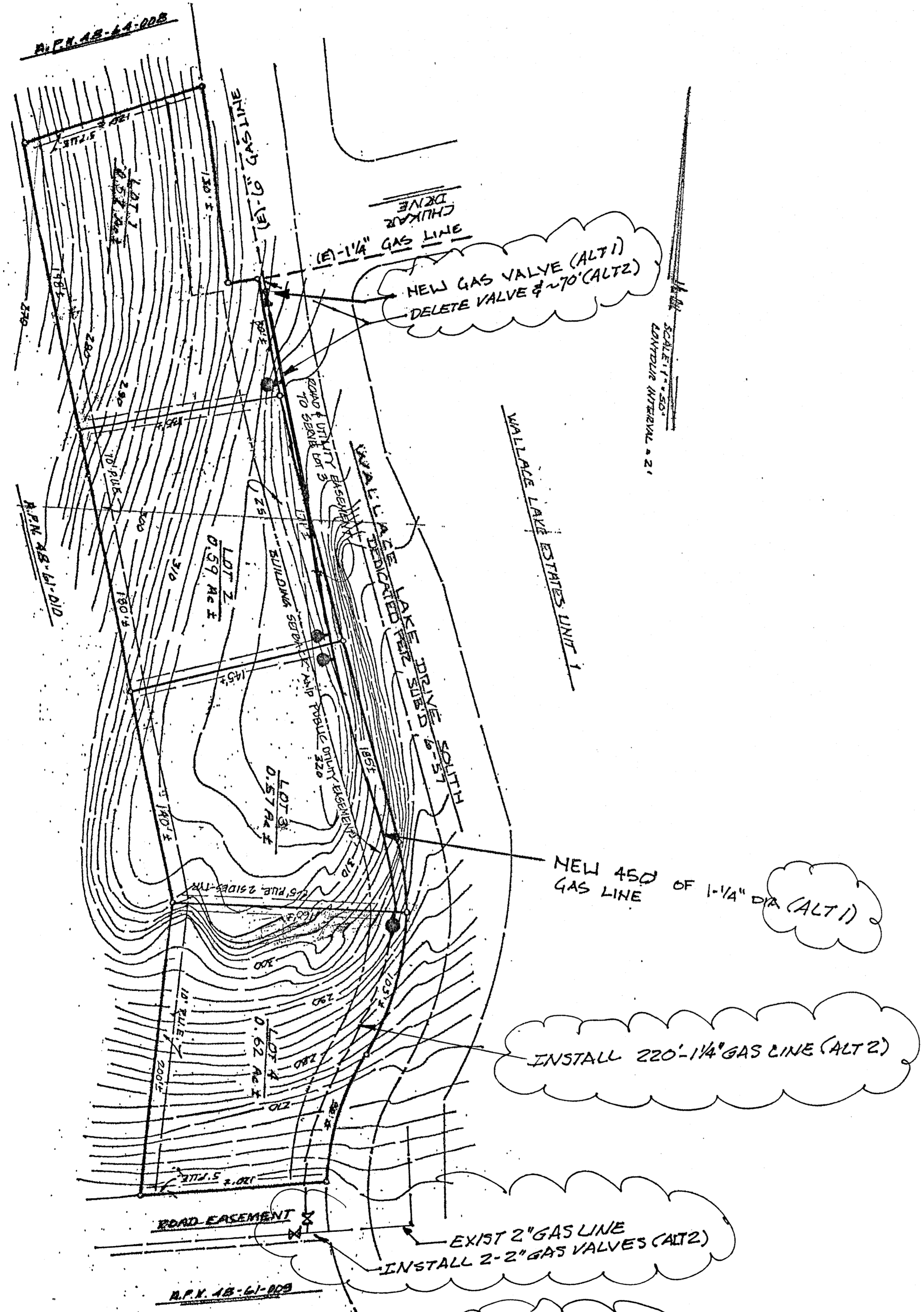
DATE 05-2006

SCALE AS NOTED

SHEET

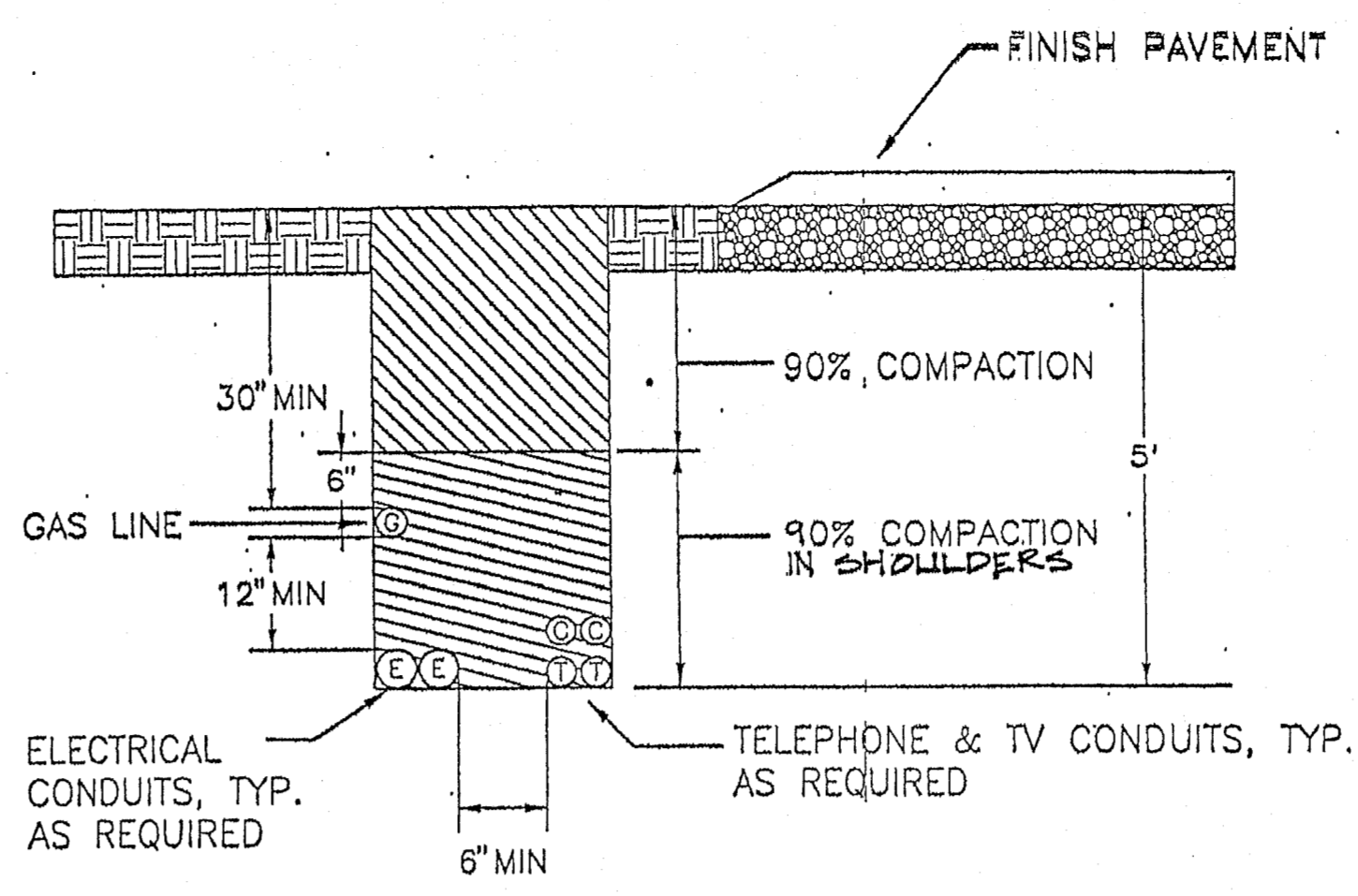
4

4 OF 6 SHEETS



ALT 1 INCLUDES
1-2" VALVE
450'-1 1/4" GAS LINE
4- SERVICES

ALT 2 INCLUDES
2-2" VALVES
600'-1 1/4" GAS LINE
4- SERVICES

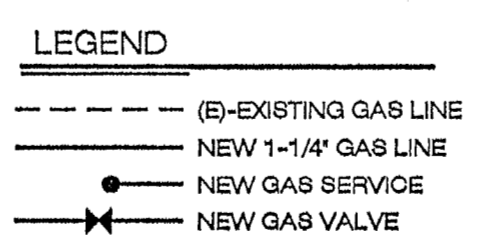


NOTES:
JOINT TRENCH SHALL COMPLY WITH P G & E RULES

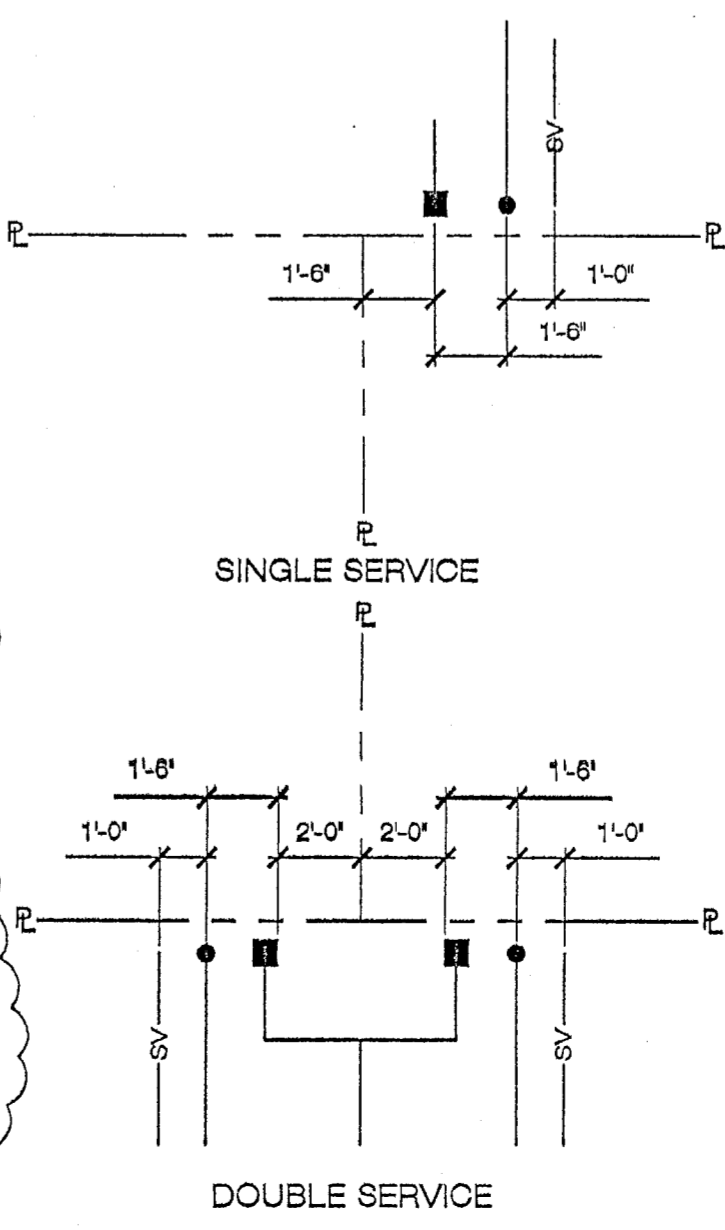
REVISION	DATE	WALLACE COMMUNITY SERVICES DISTRICT CALAVERAS COUNTY	APPROVED BY
		JOINT UTILITY TRENCH IN EASEMENT	WALLACE COMMUNITY SERVICES DISTRICT PRESIDENT NOVEMBER 2001
			IMPROVEMENT STANDARD NO. U-1

- PART 1 - GENERAL**
- 1.01 STANDARDS
- A. Gas service shall conform to paragraphs 1-4, 6-10, & 12 of Section 2, Gas, of "Electric & Gas Service Requirements", by Pacific Gas & Electric Company, 1995.
- PART 2 - MATERIALS**
- 2.01 POLYETHYLENE PLASTIC PIPE
- A. Polyethylene plastic pipe shall meet the requirement of ASTM D2513, "Standard Specification for Thermoplastic Gas Pressure Pipe, Tubing and Fittings."
- B. Polyethylene plastic pipe shall have a maximum SDR (ratio of pipe diameter to wall thickness) equal to 11.6, and standard pipe lengths equal to 40 feet. Working pressure shall be 100 psig.
- 2.02 SOCKET FITTINGS
- A. Socket fittings shall conform to ASTM D2683.
- 2.03 BUTT-FUSION FITTINGS
- A. Butt-fusion fittings shall conform to ASTM D2513, molded.
- 2.04 RISER
- A. Riser shall consist of a manufacturer's standard transition fitting, transition from plastic to 7 mil to 12 mil thick epoxy-coated steel pipe and swaged gas-tight with O-ring seals and metal insert. Provide manufacturer's standard protection sleeve and riser supports as required.
- 2.05 GAS PRESSURE REDUCING VALVES
- A. Gas pressure reducing valves shall be sized for load and inlet conditions and shall be provided with low pressure cut-off and internal over pressure relief. Where meter is inside buildings, pipe relief discharge to outside of building. Gas pressure reducing valves shall conform to P.G. & E requirements and shall be Rockwell, Fischer, or equal.
- 2.06 GAS METER
- A. Gas meter shall be a pedestal mounted, diaphragm, bellows, or turbine style, as required, sized for load and inlet conditions. Gas meter shall have aluminum or enamel coated steel case with resettable counter. Furnish combined register totalizer with escape hole in housing, and means for sealing against tampering. Gas meter shall conform to P.G. & E requirements and shall be Rockwell, Fischer, or equal.
- 2.07 VALVE BOXES
- A. Valve boxes shall be manufactured of a high density reinforced concrete with a minimum compressive strength of 4000 PSI. Boxes shall have a belled top or flared shoulders to prevent settling and an integral cast iron seat of the rattle proof design and a cast iron lid. The box and lid shall be H-20 rated.
- B. Valve box lids shall be manufactured of cast iron with machined seating surfaces. Lids shall be provided with cast-in markings indicating "Gas"; Lids with welded markings will not be acceptable.
- C. Extensions shall be as manufactured for the box or 8" Class 100 PVC pipe. Grade rings for adjusting the box shall be as manufactured for the box.
- D. The valve box shall be Christy GS; Brooks; or equal.
- 2.08 LOCATOR WIRE
- A. Locator Wire shall be #12 UF conforming to NEMA standards and NEC Article 339 for direct burial. Splicing of wire shall be made with a water proof epoxy splice kit.
- 2.09 MISCELLANEOUS MATERIALS
- A. Any incidental material or equipment not mentioned in these specifications or shown on the plans which may be necessary for completion and successful operation of the gas service system, or required by the Utility Company, shall be furnished and installed as though shown or provided for.

- CONSTRUCTION NOTES**
- PART 2 - MATERIALS**
- 2.01 PVC SEWER PIPE
- A. Sewer pipe used for gray water from septic tank systems shall be Schedule 40 polyvinyl chloride pipe for solvent weld applications.
- B. Fittings shall be schedule 40 PVC.
- C. Solvent weld cleaner and glue shall be as approved by the pipe manufacturer.
- PART 3 - CONSTRUCTION**
- 3.01 MAIN LINES
- A. Grey water sewer main lines shall be installed on a uniform slope without deviation from the grade line. Lines shall be sloped to achieve a minimum velocity of 2 feet per second.
- 3.02 LATERALS
- A. Laterals between septic tank and the main line shall be installed at a uniform slope not less than 2%.
- Trenches under paving shall be backfilled with controlled density backfill, see Detail Sheet 4 of 6.



- NOTES:**
- GAS LINE SHALL BE IN JOINT UTILITY TRENCH. SEE DETAIL ON SHEET 4.
 - DETAILS REFER TO P.G.&E. DRAWINGS 0731E19536 (3 SHEETS) FOR WALLACE ESTATES UNIT 1.
 - A REPRESENTATIVE FROM CAMPORA PROPANE SERVICE SHALL INSPECT ALL GAS SERVICE LINES AND TRANSMISSION LINES PRIOR TO CONNECTION TO EXISTING MAIN AND PRIOR TO BACKFILLING TRENCHES. CAMPORA PROPANE SERVICE SHALL BE RESPONSIBLE FOR SHUTTING DOWN EXISTING MAIN GAS LINES. CONTRACTOR TO CONTACT DAVE LIGON AT CAMPORA PROPANE SERVICE (209-798-0448) AT LEAST 48 HOURS PRIOR TO START OF GAS LINE CONSTRUCTION.



APPROVALS

THIS DRAWING IS NOT FINAL AND IS NOT TO BE USED FOR CONSTRUCTION UNTIL STAMPED AND WET-SIGNED BY THE PROJECT ENGINEER.

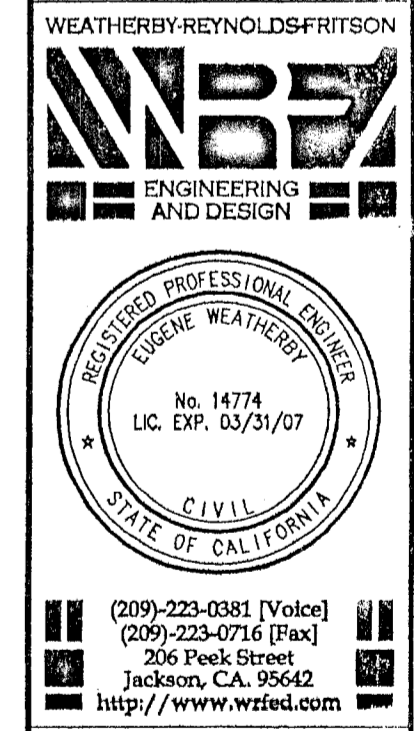
Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; 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.

BY	DESCRIPTION	DATE	MARK
JL	PLAN CHECK	08/2006	(A)
JL	PLAN CHECK	01/2007	(A)
EW	Compare Submittal	4/16/07	3

REVISIONS

CLIENT:
MAILING ADDRESS:
STERLING BUILDERS
JOHN BOYD
39 CALIFORNIA AVE SUITE 205A
PLEASANTON, CA 94566
(925) 846-9133

IMPROVEMENT PLANS FOR:
LAKERIDGE UNIT 1B
A PORTION OF
WALLACE LAKE ESTATES
WALLACE LAKE ESTATES, UNIT 1, TRACT 434
WALLACE - CALIFORNIA



THESE DRAWINGS AND THE CONCEPTS EMPLOYED THEREIN ARE THE ORIGINAL UNPUBLISHED WORK OF WIFE ENGINEERING AND DESIGN AND SHALL NOT BE USED OR DUPLICATED WITHOUT THE WRITTEN AGREEMENT OF TERRY WEATHERLY, GRANT TECHNOLOGICAL, OR KEVIN FRITSON.

DRAWINGS

GAS LINE
IMPROVEMENT
PLAN AND NOTES

FILE NO.	D-5698
DRAWN BY	JL
DATE	05-2006
SCALE	AS NOTED
SHEET	4

4 OF 6 SHEETS