

# SPICEWOOD SUBDIVISION

## NO. 1

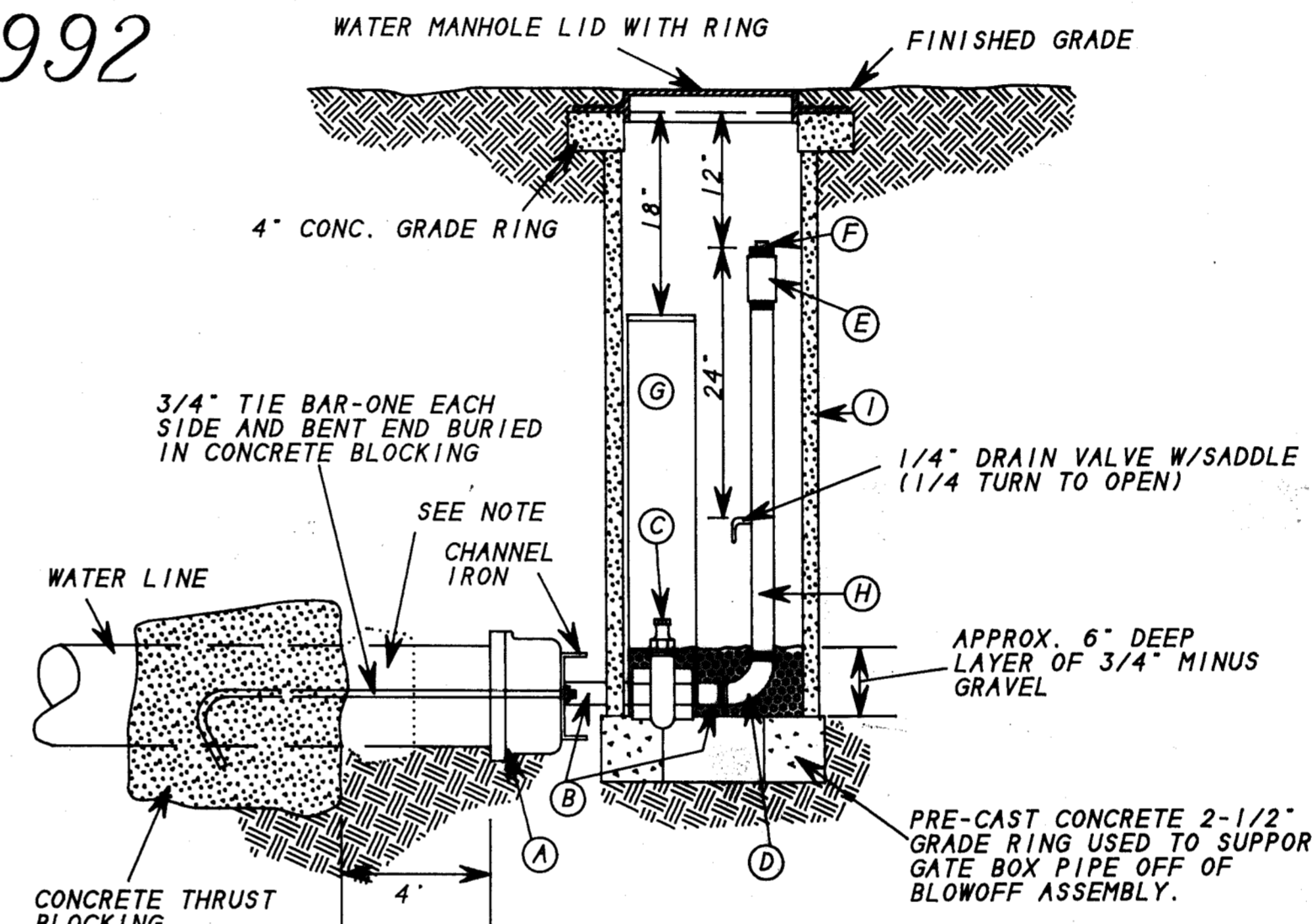
### WATER AND SANITARY SEWER PLANS

KUNA, IDAHO

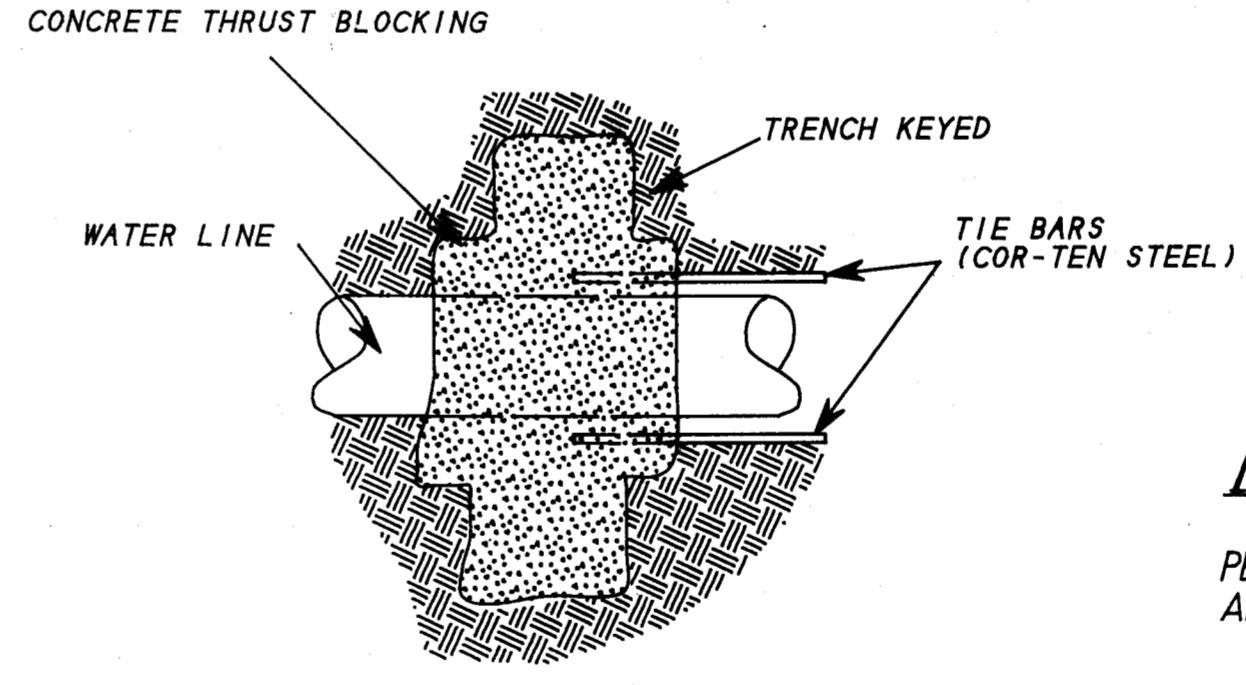
1992

#### NOTES

- ALL WATER & SEWER LINE MATERIALS, APPURTENANCES AND CONSTRUCTION SHALL COMPLY WITH THE 1990 EDITION OF THE "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION".
- CONTRACTOR(S) SHALL NOTIFY B & A ENGINEERS, THE ADA COUNTY HIGHWAY DISTRICT AND THE CITY OF KUNA DEPARTMENT OF PUBLIC WORKS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE PLANS.
- CONTRACTOR(S) SHALL HAVE ALL BURIED UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION.
- CONSTRUCTION INSPECTION SHALL BE PERFORMED BY B & A ENGINEERS, THE ADA COUNTY HIGHWAY DISTRICT AND/OR THE CITY OF KUNA.
- AIR AND/OR WATER TESTING OF SEWER AND WATER LINES AND DISINFECTION OF WATER LINES SHALL BE CONDUCTED BY THE CONTRACTOR IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, AFTER ALL UTILITIES HAVE BEEN INSTALLED. PRIOR TO FINAL ACCEPTANCE. PROVIDE AT LEAST 24 HOURS NOTICE PRIOR TO TESTS.
- GRAVITY SEWER LINES AND APPURTENANCES SHALL BE PVC, ASTM D-3034, SDR-35 PIPE.
- SEWER SERVICES SHALL BE 4" DIA. AND SHALL BE PVC, ASTM D-3034, SDR-35 PIPE. SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ISPMC DWG. NO. SD-511A, TYPE "A".
- WATER MAINS SHALL BE CONSTRUCTED 4- FEET BELOW THE FINISH STREET GRADE, UNLESS OTHERWISE NOTED ON PLAN. INSTALL A #12 DIRECT BURIAL TRACER WIRE PLACED ALONG THE NORTH AND EAST SIDE OF THE MAIN. THE TRACER WIRE SHALL BE ACCESSIBLE AT ALL VALVE BOXES AND SHALL BE EXTENDED ALONG THE INSIDE OF THE UPPER PORTION. WATER MAINS SHALL BE AWWA C-900, PVC PIPE. FITTINGS SHALL BE AWWA C-110, CLASS 250 OR 350 DUCTILE OR CAST IRON MECHANICAL JOINT. THRUST BLOCKS SHALL CONFORM TO ISPMC DWG. NO. SD-403.
- WATER SERVICE LINES SHALL BE AWWA C-901, CLASS 200 (SDR 7.3) 1" PE PIPE. SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ISPMC DWG. NO. SD-402 AND THE FOLLOWING INFORMATION:
  - CONNECT TO MAIN WITH SADDLE AND 1" CORPORATION STOP.
  - COPPER METER SETTER SHALL BE 18" TALL WITH 5/8" x 3/4" SETTING AND LOCKABLE SHUTOFF VALVE.
  - METER BOXES SHALL BE 18" DIAMETER AND 30" TALL WITH CAST IRON FRAME AND COVER APPROVED BY CITY.
- FIRE HYDRANTS SHALL CONFORM TO ISPMC DWG. NO. SD-401 AND THE FOLLOWING INFORMATION:
  - ALL FIRE HYDRANTS SHALL BE DRY BARREL FIRE HYDRANTS CONFORMING TO AWWA C-502. HYDRANTS SHALL HAVE A 5-FOOT SETTING; MINIMUM 5-1/4 INCH VALVE OPENING; 150 PSI WORKING PRESSURE; ONE 4-1/2 INCH DIAMETER NATIONAL STANDARD PUMPER NOZZLE AND TWO 2-1/2 INCH DIAMETER NATIONAL STANDARD THREAD FIRE HOSE NOZZLES. THE VALVE OPERATOR SHALL OPEN LEFT (COUNTER CLOCKWISE). THE HYDRANT SHALL BE EQUIPPED WITH A BREAKABLE TRAFFIC FLANGE JUST ABOVE GROUND LEVEL; A DRAIN THAT AUTOMATICALLY OPENS WHEN THE HYDRANT IS CLOSED AND A 6-INCH FLANGED CONNECTION. THE HYDRANT SHALL BE EQUIPPED WITH A 6-INCH FLANGED BY MECHANICAL JOINT RESILIENT-SEAT GATE VALVE WITH CAST IRON VALVE BOX ATTACHED DIRECTLY TO THE HYDRANT FLANGE.
- WATER AND SEWER LINES SHALL BE BEDDED PER ISPMC DWG. NO. SD-301. (TYPE 1)
- ALL SEWER SERVICES AND TEMPORARY DEADENDS SHALL BE MARKED IN ACCORDANCE WITH ISPMC DWG. NO. SD-512. SAID LOCATIONS SHALL BE VISABLE AND INPLACE FOR FINAL INSPECTION.
- SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ISPMC DWG. NO. SD-501, SD-507, HD-508B AND HD-509. CONCRETE RIM COLLARS SHALL BE SET BY OTHERS. WHERE PLASTIC PIPE ENTERS AND LEAVES THE MANHOLE, APPROVED BOOTS OR COLLARS OR APPROVED EQUIVALENT SHALL BE INSTALLED IN THE WALL OF THE MANHOLE TO INSURE A WATER TIGHT SEAL.
- SEPARATION OF WATER AND SEWER LINES SHALL CONFORM TO THE REQUIREMENTS OF SECTION 406 OF THE PROJECT SPECIFICATIONS.
- ALL STATIONING SHOWN ON THESE PLANS IS BASED ON STREET CENTERLINE DATA, WHERE POSSIBLE.
- PAVEMENT REPAIR SHALL CONFORM WITH ISPMC DWG. NO. SD-307 AND SD-307A.
- WATERLINE BLOWOFFS SHALL CONFORM TO THE DETAILS SHOWN ON THIS SHEET.
- WATER VALVES SHALL BE RESILIENT-SEATED GATE VALVES CONFORMING TO AWWA C-509. ALL WATER VALVES SHALL BE FURNISHED WITH A STANDARD CAST IRON 5-1/4" DIAMETER ADJUSTABLE VALVE BOX. THE CAST IRON COVER SHALL BE MARKED WITH THE WORD "WATER" AS AN INTEGRAL PART OF THE COVER. VALVE BOXES SHALL BE SET TO FINISH GRADE BY OTHERS.

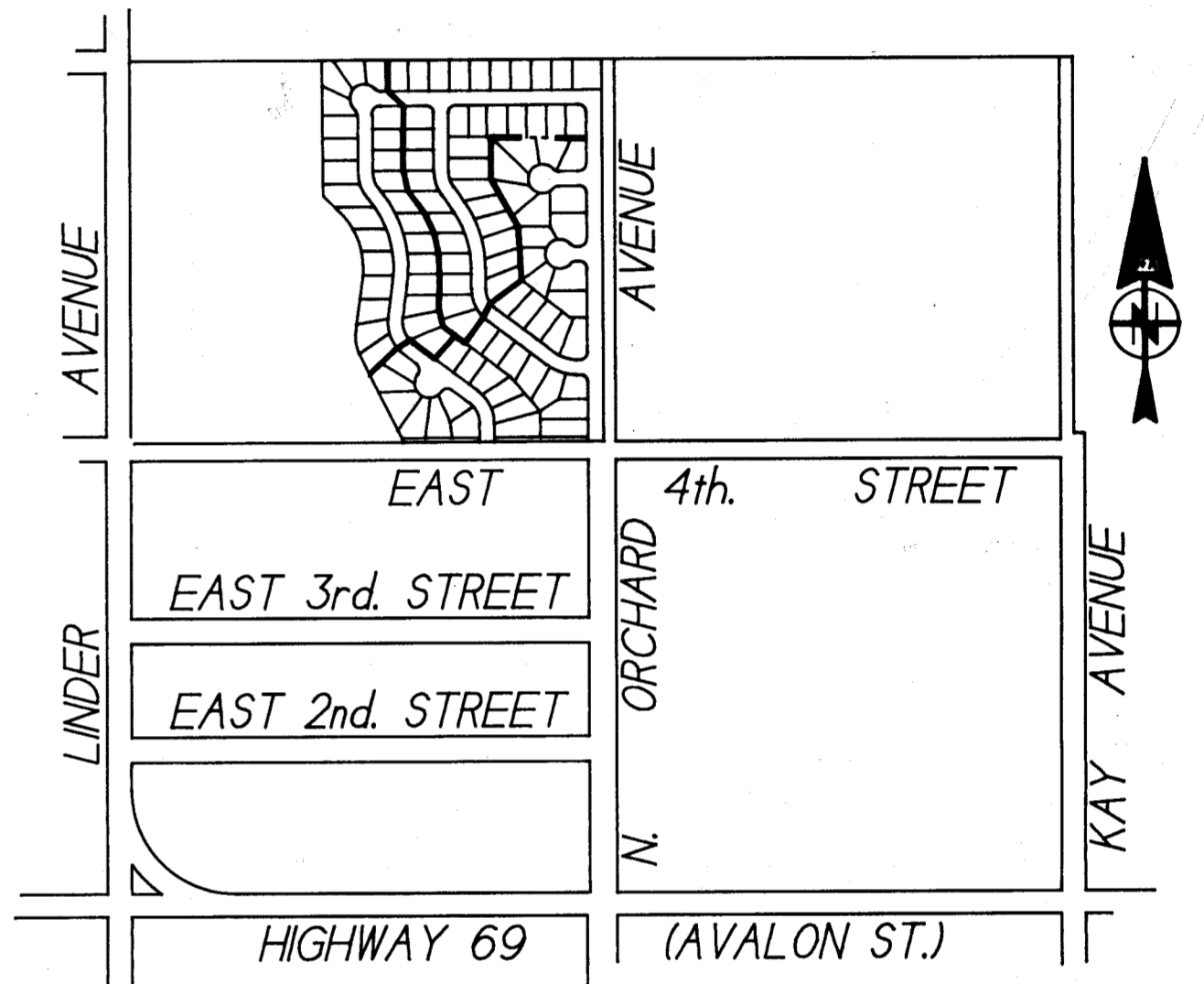


**SIDE ELEVATION**  
N. T. S.



**PLAN VIEW**  
**CONCRETE THRUST BLOCKING**  
N. T. S.

- BLOWOFF EQUIPMENT LEGEND**
- (A) MAIN SIZE M. J. CAP W/2" PIPE THREAD OUTLET
  - (B) 2"x6" RED BRASS NIPPLE (THREADED)
  - (C) 2" RESILIENT WEDGE SCREWED GATE VALVE OR APPROVED EQUAL
  - (D) 2" RED BRASS - 90° ELBOW, THREADED
  - (E) 2" SCH. 80 MALE ADAPTER, THREADED
  - (F) 2" THREADED FIP x ALUM. KAM-LOC QUICK COUPLING MALE ADAPTOR W/CAP
  - (G) 6" PVC PIPE
  - (H) 2" SCH. 80 PVC OR GALV. PIPE
  - (I) 30" DIA. CMP



**NOTE**  
1. VICINITY MAP IS NOT TO SCALE  
2. SEE SHEET 2 OF 4 FOR MORE LOCATION INFORMATION

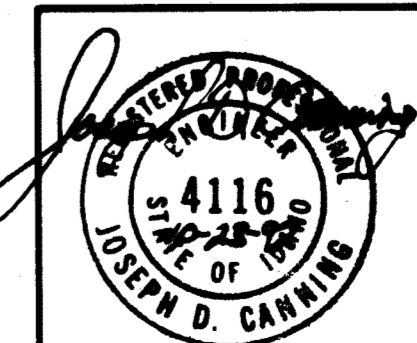
**LOCATION MAP**

#### BENCH MARK INFORMATION

PBM IS CHISELED SQUARE ON END OF SIDEWALK AT S.E. CORNER OF EAST 4. STREET AND NORTH ORCHARD AVENUE. EL.-2696.7

**AS-BUILT DRAWING**  
B. & A. Engineers, Inc.  
DATE: 4-10-94  
BY: J. Canning

- REVISIONS**
- (A) CHANGED NOTES AND CHANGED BLOWOFF DETAIL AS PER LETTER DATED 10/17/92. SDS 10/20/92



**B & A Engineers, Inc.**  
619 Grove St., Boise, ID., 83702 (208) 343-3381

SPICEWOOD SUBDIVISION  
NO. 1

WATER AND SEWER PLANS

HOR. SCALE 1"=60'	DATE: 9/27/92	SHEET NO 1 OF 4
VERT. SCALE N/A.	DRAWN BY D.D.S.	DWG. NO. SDS-920927

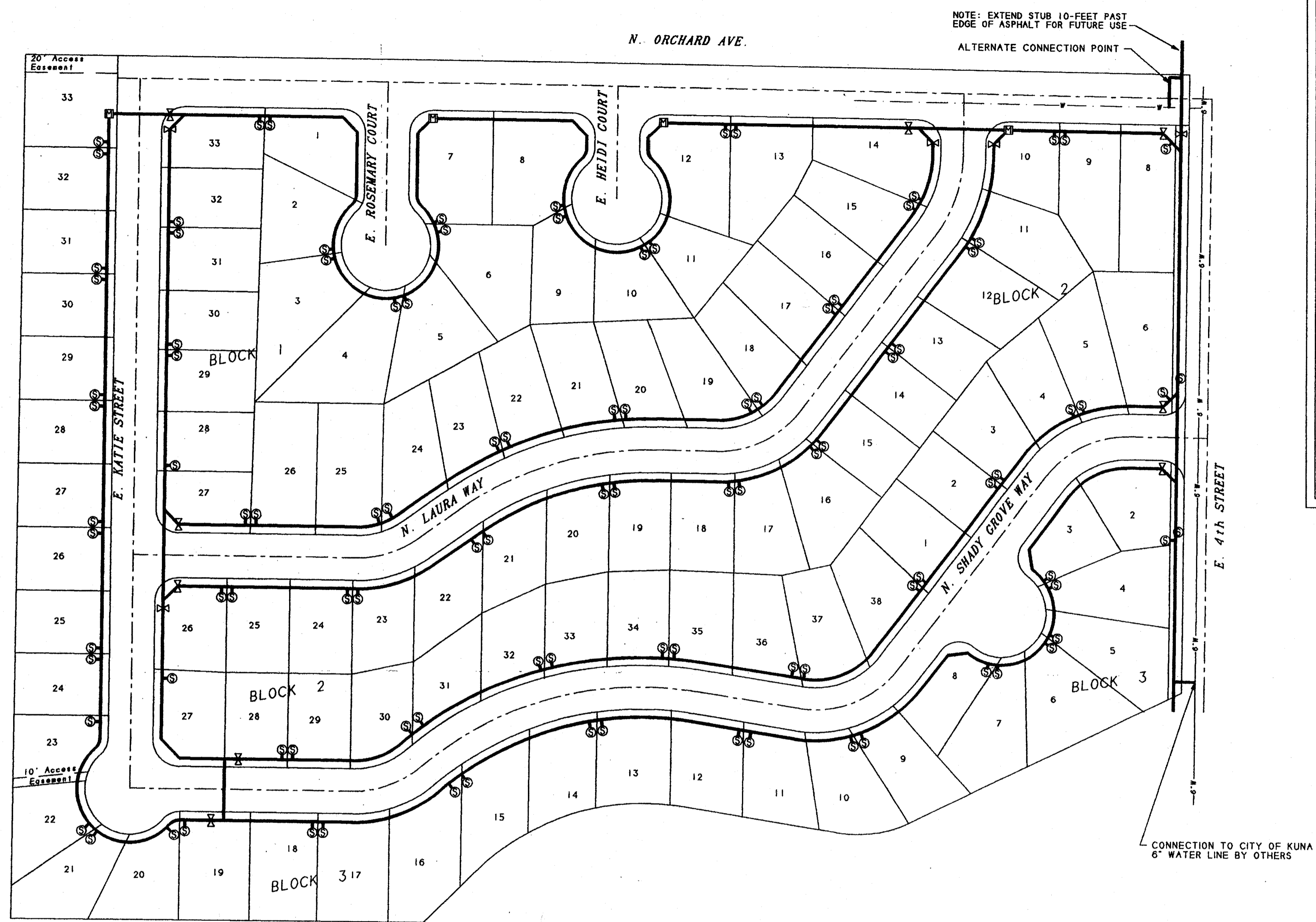
## BLOWOFF ASSEMBLY DETAILS

SPICEWOOD #1

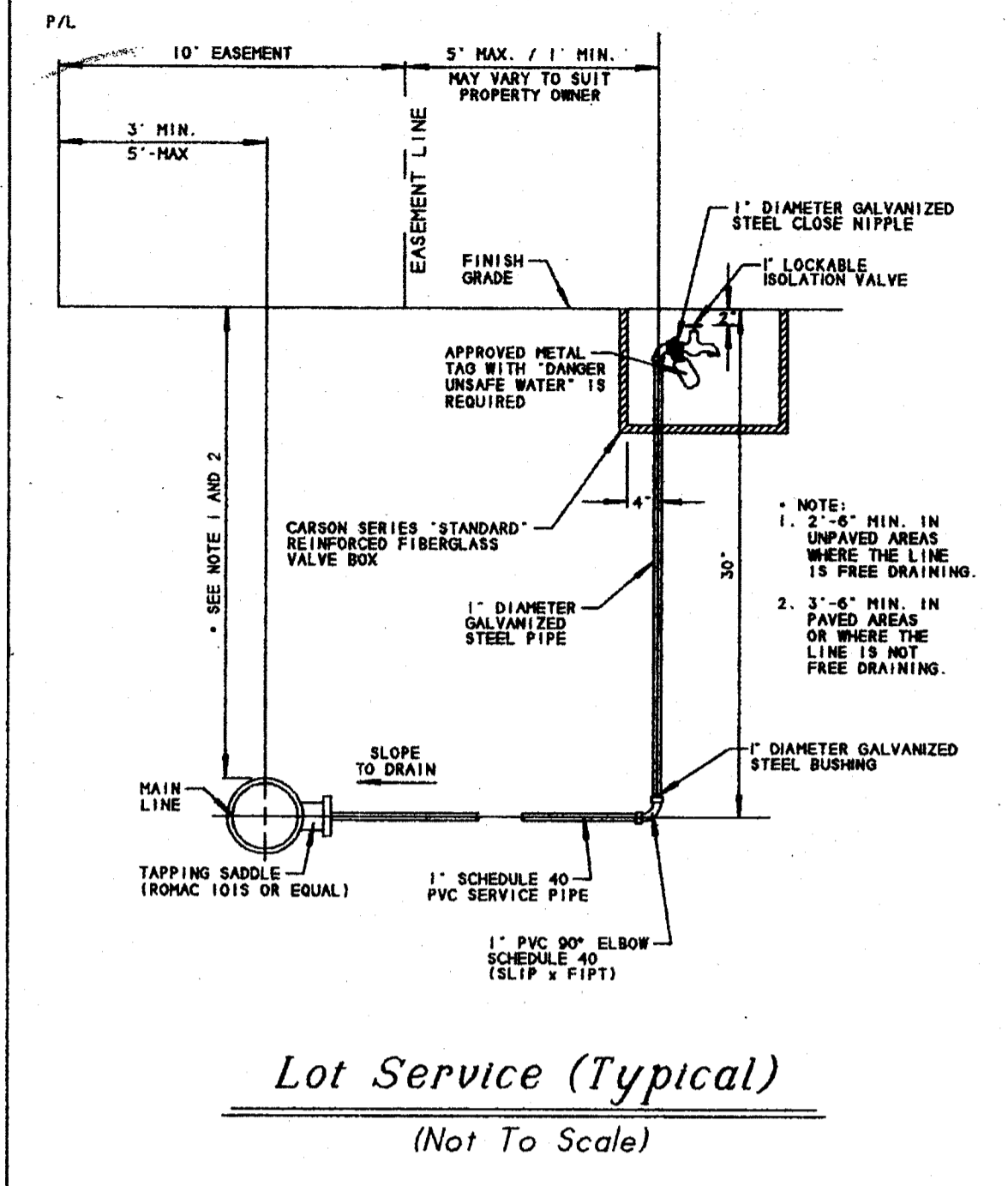
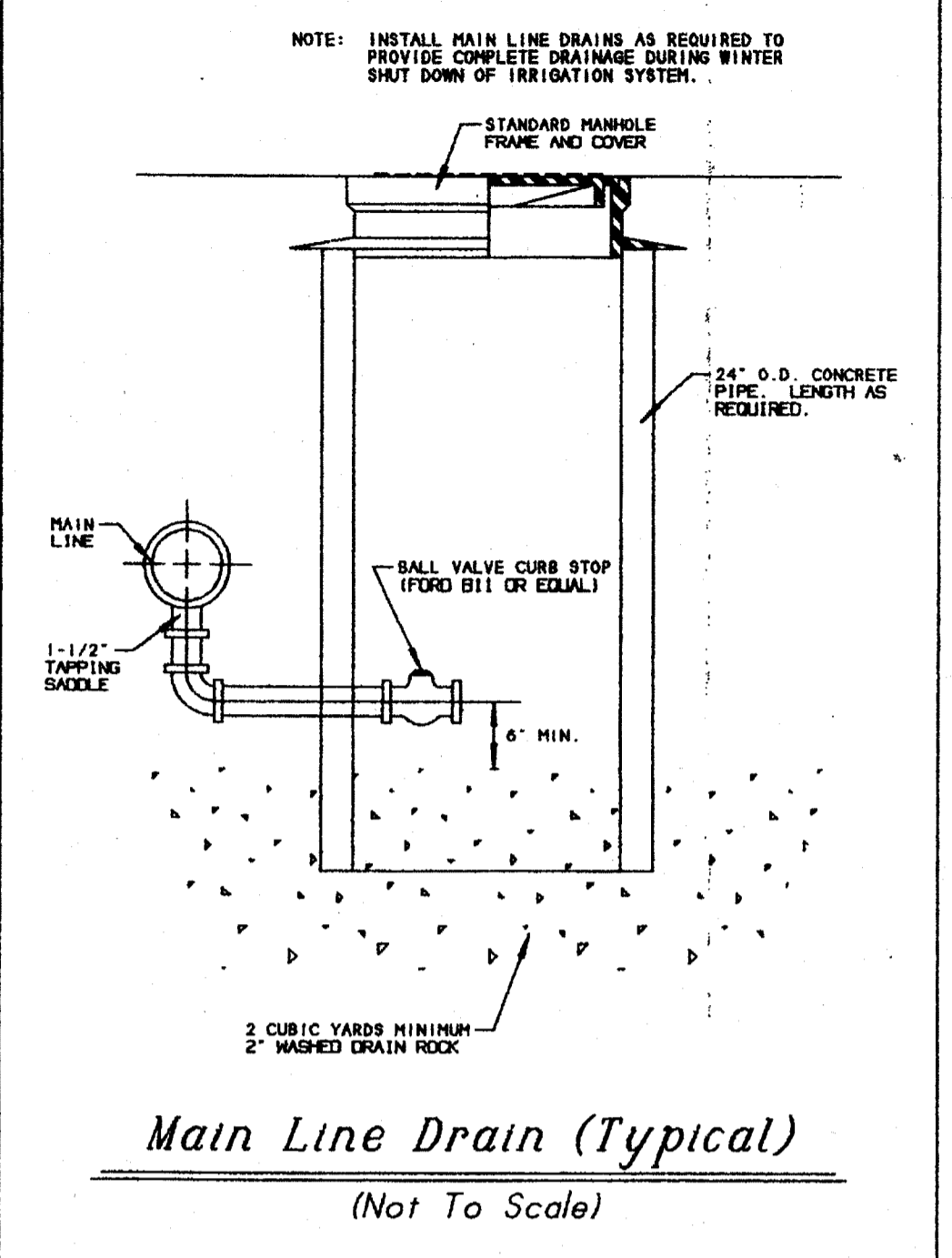








NOTE: EXTEND STUB 10-FOOT PAST EDGE OF ASPHALT FOR FUTURE USE  
ALTERNATE CONNECTION POINT

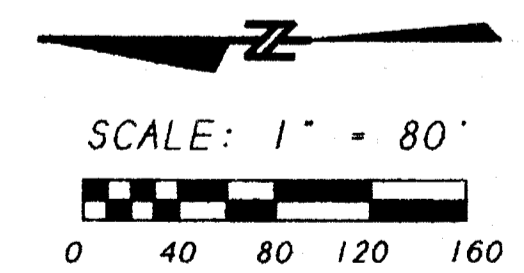


Notes

- 12-inch PVC casings shall be installed under each drive, and new roadways where future mains will be required.
- Pressure irrigation main line piping shall be constructed of Poly-Vinyl-Chloride (PVC), 200 psi, SDR 21, conforming to ASTM D2241 (3-inch diameter and larger); or Schedule 40, conforming to ASTM D2466 for pressure irrigation (smaller than 3-inch diameter). All joints on pipe 2-inches and larger shall be rubber gasketed. All plastic pipe shall be installed with a #12 direct burial tracer wire placed along the north and east side of the main. The tracer wire shall be accessible at all valve boxes and shall be extended along the outside of the lower portion of the valve box and along the inside of the upper portion. Minimum burial depth for all irrigation mains shall be 2-feet 6-inches from finish grade to the top of pipe if the pipe is free draining except within roadways. Under roadways or in areas where the pipe is not free-draining, a minimum of 3-feet 6-inches of cover shall be required from finish grade.
- Fittings shall be cast iron, ductile iron, PVC, brass or stainless steel, and shall have a minimum 125 psi pressure rating. All fittings 4-inches and larger shall be ductile iron with flanged or mechanical joints.
- Valves for sizes up to 3-inches shall be rising stem, solid double wedge disc, screw bonnet, with hand wheels. The valve body, bonnet, disc and stem shall be bronze. Valve boxes for sizes up to 3-inches shall be 4-inch diameter PVC or ABS pipe with a female adapter, and threaded plug with square nut. Valves 3-inch and larger shall be resilient wedge valves conforming to the requirements of AWWA C509, with mechanical or flanged joints and a 2-inch square operating nut. Valve boxes for valves 3-inches and larger shall be a standard cast iron 5 1/4-inch diameter adjustable valve box.
- All irrigation pipe shall be installed with finder tape. Tape shall be 2-inches wide, metallic red in color, with the words DANGER UNSAFE WATER or NON-POTABLE WATER clearly marked along the length of the tape. Tape shall be placed between 6-inches below the surface and 18-inches above the top of the pipe.
- All irrigation system construction shall conform to the latest edition of the Idaho Standards for Public Works Construction (ISPCW), Uniform Plumbing Code, and laws of the State of Idaho.
- All installed irrigation dry lines shall be tested for leakage in accordance with Section 404 of the ISPCW Specifications following installation of all utilities and prior to paving. Test pressure shall be 90 psi. Test water shall be potable water from the municipal water system. The testing must be observed by a representative of the City. Upon successfully passing the final pressure test the irrigation system shall be drained.
- All pipe, mains and services, shall be bedded with Type I bedding. In areas of rock-excavation bedding shall be 6-inches below the pipe.
- In areas where rock excavation is required all blasting for other utilities shall occur prior to installation of any irrigation facilities.
- The main lines adjacent to N. Orchard Ave. and E. 4th Street shall be 6-inch diameter pipe. All other pipe shall be 4-inch.

Legend

- 23 Lot Number
- Main Line Drain (See Detail)
- ⊙ Lot Service (See Detail)
- ⊗ Irrigation Valve Box
- Pressure Irrigation Pipe
- - - - - Easement
- - - - - Roadway Centerline
- w— Existing Waterline
- v— Proposed 8" Waterline



Line Data

LINE	BEARING	DISTANCE
L-1	N 43° 58' 24" W	78.72'

Curve Data

CURVE	DELTA	RADIUS	ARC	TANGENT	CHORD	CHORD BEARING
C-1	34° 40' 00"	145.00'	87.73'	45.26'	86.40'	S 07° 48' 24" E
C-2	53° 30' 00"	270.00'	252.11'	136.09'	243.05'	S 17° 13' 24" E

Developer

Greg Johnson  
Westpark Company, Inc.  
30 East Franklin Road  
Suite 50  
P.O. Box 344  
Meridian, Idaho 83642  
208-888-9946

Date: November 2, 1993  
Drawn By: C. Auth  
Scale: 1" = 80'