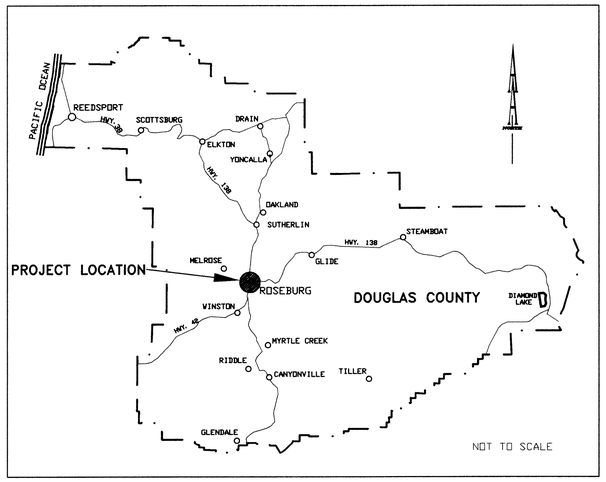
POMONA STREET IMPROVEMENT PROJECT

FILED
Date: 11-2-2006 By: JP
This survey consists of:
Map: SC09 2003-072
Narrative: _____
Corner Rpt: _____
DOUGLAS COUNTY SURVEYOR

REGISTERED PROFESSIONAL ENGINEER
11,117
OREGON
JULY 17, 1981
RICHARD E. HUTTON
EXPIRES: 6-30-03



VICINITY MAP

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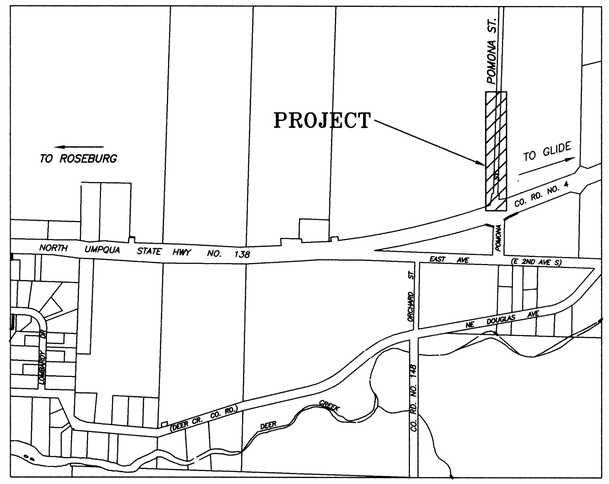
PROJECT COORDINATION

Douglas County Engineering	Kerry Werner, 440-4481
Roseburg Urban Sanitary Authority (RUSA)	Ron Thames, 672-1551
Roseburg Water Department	Pete Carson, 672-7701
Pacific Power	John Griffin, 679-3611
QWest (PHONE)	Anastasia Babb, 673-6967
Charter Communications (TV)	Jerry Brown, 673-1267
Avista Utilities (GAS)	Larry LaRoque, 672-5121
City of Roseburg, Public Works	Chris Berquist, 672-7701



SITE MAP

GENERAL NOTES:

G1. Notify Oregon Utility Notification Center, 1-800-332-2344, 48 hours prior to excavation in accordance with OAR 952-001-0010 through OAR 952-001-0090. Copies of these rules may be obtained by calling the Center.

G2. All work within right-of-way and easements is subject to inspection by the Douglas County Engineering and the City of Roseburg Public Works Department. Notify the County and the City of construction schedules and changes (COUNTY: Kerry Werner, 440-4481, CITY: Nikki Johnson, 672-7701).

G3. Except as otherwise noted or detailed, all construction shall conform to the latest edition of Oregon American Public Works Association (APWA) Standard Specifications, including drawings.

G4. All construction shall be done in a manner to prevent runoff turbidity levels from increasing greater than ten percent over background turbidity levels, and in accordance with 200-C permit, application date 9/1/2000, issued through the City of Roseburg. Proposed temporary erosion control and sedimentation measures shall remain in effect from initial site grading until final site stabilization.

G5. Contractor shall prevent silt-laden runoff from discharging to adjacent properties and be responsible to maintain all sedimentation basins, filter structures and erosion controls. Measures as outlined in the County Drainage Ordinance shall be followed during all phases of construction up to and including final site stabilization.

G6. Runoff diversion ditches shall be constructed along the lower side of basins.

G7. Temporary hydroseeding shall be provided on all disturbed areas as required.

G8. All siltation barriers shall be maintained to provide the required protection. Fencing may not be removed until construction is completed and final site stabilization is in place and functional.

G9. All areas disturbed during construction where permanent landscaping will not be provided within 60 days shall be hydroseeded as required.

G10. During dry weather the contractor will execute dust control measures as necessary to prevent wind blown erosion and prevent dust from construction operations blowing across adjacent streets or properties.

G11. Soil laden runoff shall be prevented from entering new or existing storm drainage systems by placing a filter fabric fence or other approved measures around drainage structures including, but not limited to, catch basins and trench drains.

G12. Prior to completion of street improvements and acceptance by Douglas County, adjacent property owners shall dedicate additional public Right-of-Way in accordance with Douglas County requirements. Existing Spring Street Right-of-Way width is 33.66 feet. An additional 13.17 feet shall be dedicated from the East and West sides, for a total Right-of-Way width of 60.00 feet, for the length of street being developed. Developer reserves the option of constructing a half-street, 24 feet minimum asphalt width, with the additional dedication being made from one side only, for any portion except that portion within 200 feet of the Northerly Right-of-Way line of North Umpqua Highway No. 138.

SANITARY SEWER NOTES:

SS1. Sewer main pipe and fittings shall be PVC ASTM D-3034 SDR 35, except at locations where sanitary sewer main or laterals cross a domestic water line at less than 1.5 feet vertically measured from the top of the sewer to the bottom of the water pipe use C-900 PVC or CI-50 Ductile Iron pressure pipe, 9 foot minimum each side of waterline.

SS2. Mainline materials, workmanship and testing shall be in conformance with the latest edition of Oregon APWA Standard Specifications, Division III Sanitary Sewers, including drawings, and in conformance with Roseburg Urban Sanitary Authority Specifications and Ordinance. In case of conflict Roseburg Urban Sanitary Authority Specifications shall take precedence over Standard Specifications. Laterals shall be constructed to the requirements of the State of Oregon Plumbing Specialty Code, current edition. Contractor shall keep copy of APWA division 11 on site during construction.

SS3. Twenty foot easements centered on the main and laterals (minimum) shall be provided by owner to standard RUSA form and requirements. Public sewers 8 inches and larger shall be constructed in accordance with DEQ standards for public sewer, and to the lines, grades and details shown on the plan.

SS4. All sewer lines and laterals shall have a 12 gage stranded copper toning wire with green THHN insulation installed within 12 inches above the top of the pipe, preferably on top of the pipe zone bedding material. All tone wire shall be tested with toning equipment, and witnessed by RUSA inspector.

SS5. All manhole connections are to be factory connectors with non-shrink grout or a cored hole with flexible boot (i.e. KOR-N-SEAL).

SS6. Grout for top of manhole frames and bases shall be non-shrink grout.

SS7. Use a commercial concrete bonding agent on all concrete to be grouted.

SS8. Concrete shall be Class 5 (1½" maximum aggregate size) with 6 sacks of cement per cubic yard of concrete with a minimum compressive strength of not less than 3,000 pounds per square inch at 28 days when tested in accordance with ASTM C-39.86.

SS9. Manholes shall be tested according to the Specifications. The contractor may vacuum test manholes with the Engineer's approval. Water tests shall be done with water filled to manhole rim.

SS10. 5% deflection testing shall be conducted on all sewers constructed of flexible pipe not less than 30 days after trench backfill and compaction.

SS11. Line and grade shall be maintained as shown on the plans or as established by the Engineer. Variations of more than ½ inch for line and ¼ inch for grade will not be permitted.

SS12. All gravity sanitary sewer mainlines and laterals shall be air tested in accordance with standard specification Unibell B-06.85, after completion of backfill. The test shall be witnessed by a RUSA inspector.

SS13. A representative of Roseburg Urban Sanitary Authority shall witness all testing. Prior notice of a minimum of four hours shall be given to Roseburg Urban Sanitary Authority before all tests.

STREET & STORM NOTES:

ST1. Sidewalk widths measured from back of curbs shall be 7'-0" for 40 foot street width, and 6'-0" for street widths less than 40 feet. Project back of sidewalk lines for smooth transition in tapered street section. See City of Roseburg Standard Drawing PW-002 for details of sidewalk construction.

ST2. Storm drainage piping in sizes 4"-42" shall be high density polyethylene (HDPE) N-12 pipe as manufactured by Advanced Drainage Systems, Inc., Columbus, OH, conforming to AASHTO M 294 Type S with smooth inner wall and maximum "n"<0.012 measured at 5 fps, or approved equal. Jointing shall be by hinged split couplers or integral bell couplers in accordance with the manufacture's recommendations.

ST3. Install conduits to future street light bases as shown on the drawings for future installation of poles and luminaries.

WATER NOTES:

WA1. Water lines and appurtenances shall be installed in conformance with "General Specifications-Materials and Installation of Water Mains," published by City of Roseburg Water Department, January 1993 revision.

WA2. Piping shall be PVC C-900 or Ductile Iron in street right-of-way, and Ductile Iron on private property within easements.

WA3. Thrust block all fittings and changes in direction per Standard Drawing 102.

WA4. Fifteen foot easements centered on the main and laterals (minimum) shall be provided by owner to standard City of Roseburg requirements.

WA5. Hydrostatic and 2-hour leak test shall be performed before tie-in in accordance with AWWA C-600. Test pressure at low end shall be 140 psi ± 10 psi. Leakage at test pressure shall not exceed the sum of 0.71 GPH/1,000' of 8" pipe and 1.05 GPH/1,000' of 12" pipe.

WA6. Construction Sequence:
#1 Install mains, hydrants and accessories.
#2 Fill and flush.
#3 Hydrostatic and leak test.
#4 Chlorinate, flush and take bacteriological test.
#5 Tie-in by City (tap made with #1 for fill/flush source) The contractor is to supply materials, excavation, and pay tie-in costs.
Notify Pete Carson, Roseburg Water Department, 672-7701, of construction status and schedules, including schedule changes.

WA7. Coordinate installation of water service lines with Roseburg Water Department.

UTILITY NOTES:

UT1. Conduit for electrical primary and street lighting circuits shall be electrical-grade Schedule 40 gray PVC installed with 36 inches cover to finished grade per Pacificorp requirements. Maintain 12 inches vertically clear between power and phone conduits. Bends shall be sweep 90 degree bends of 48 inch radius for 5 inch conduits, and 36 inch radius for 3 inch and smaller conduits. Conduits and bends shall be installed at locations shown on the plan. Cap all buried ends and mark with 2x4.

UT2. Conduit for phone service shall be electrical-grade Schedule 40 gray Schedule 40 PVC installed with minimum 30" cover to finished grade per US West requirements. Install sweep bends to 16 inches above grade and cap ends.

UT3. Provide gas trench for installation of gas line by Avista Utilities. Provide and install bedding at direction of Avista Utilities, and backfill with compacted native materials. Verify and coordinate gas service locations to west side of Spring Street with owner of property and Avista Utilities. Provide trench, bedding, crushed rock backfill materials and compaction for crossings.

UT4. Install 2 inch Schedule 40 PVC conduit for cable TV. Charter Communications will supply conduit at office at 575 West Harrison Street, Roseburg, OR, storage location. Install in utility trench with phone (minimum 2'-6 cover) with sweeps up to future pedestals located 2' from each phone pedestal location. Cap ends.

ATTENTION : OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER AT 1-800-332-2344. CALL BEFORE YOU DIG.

CITY PUBLIC WORKS INSPECTION SCHEDULE
THE CITY OF ROSEBURG SHALL BE NOTIFIED FOR INSPECTION AT LEAST 24 HOURS PRIOR TO THE ACCOMPLISHMENT OF THE FOLLOWING STAGES OF CONSTRUCTION (PHONE: 672-7701 FAX: 672-2785):

1. ANY STORM SEWER CONSTRUCTION (INCLUDING STRUCTURES).
2. FINISHED SUB-GRADE (PRIOR TO FABRIC INSTALLATION).
3. SOIL STABILIZATION FABRIC INSTALLATION.
4. ALL CONCRETE WORK.
5. FINISHED BASE COURSE GRADE
6. PAVING.

NONE OF THE ABOVE ITEMS OF WORK SHALL BE COVERED UNTIL INSPECTED BY THE CITY OF ROSEBURG PUBLIC WORKS DEPARTMENT.

SURVEYING & ENGINEERING, INC.
ENGINEERING • SURVEYING • PLANNING
3078 NE DIAMOND LAKE BLVD.
ROSEBURG, OREGON 97470
TEL (541)672-2066
FAX (541)672-0811

Revision	Date	Revision	Date
FOR CONST.	7-24-01	AS BUILT	1-07-03

Drawn	MPS	Design	DH
Checked	HP	Reviewed	DH

DATE: 12/01/00
TITLE: TITLE SHEET & CONSTRUCTION NOTES
PROJECT NAME: POMONA STREET IMPROVEMENT PROJECT

AA# 2339.2

SHT. 1 OF 6

SC09 2003-072