

HARMONY HILLS IMPROVEMENT PLANS

FILED
 Date: 7-3-97 By: J.P.
 This survey consists of:
 Map:
 Narrative:
 Corner Rpt.:
DOUGLAS COUNTY SURVEYOR

GENERAL NOTES

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- The 1990 edition of the Standard Specifications for Public Works Construction prepared by the American Public Works Association Oregon Chapter will be considered the Standard Specifications with the exception of Division I and all measurement and payment sections.
- Trench backfill shall be Class B (3/4" - 0" crushed rock) under all streets and parking lots, and Class A (Suitable excavated material elsewhere unless shown different on trench detail or in specs. All trenches will be compacted with hand operated pneumatic compactor.
- The contractor shall replace any and all survey monuments which are affected by the construction. All monuments will be reset by a licensed land surveyor.
- Locations shown on engineering drawings are approximate. The exact location will be staked in the field by the engineer. Contractor to give 7 days notice to engineer for staking.
- Contractor shall maintain a minimum horizontal separation of 10 feet between water main and sewer mains measured edge to edge.
- 14 gage copper tanning wire approved for direct bury shall be placed in all trenches where pipe has been laid. Except for water lines which shall have 12 gage stranded copper wire with blue THHN insulation.
- The contractor shall notify all affected utility companies for locations of mainline and service line locations prior to digging. Utilities which are damaged and were marked properly will be repaired by the contractor at his cost. Utilities which are damaged by the contractor that were unmarked or improperly marked will be paid for by the owner of the affected utility. Contractor to contact ONE-CALL at least 48 hours prior to construction at 673-6676.

GENERAL WATER SYSTEM NOTES

- All water system work shall be in conformance with Roberts Creek Water District Rules and Regulations. In cases of conflict Roberts Creek Specifications shall take precedence over the standard specification.
- All pipe for water mains shall be Class ISO C-900 PVC pipe.
- The contractor shall flush, hydrostatically test and chlorinate all new water mains installed. The Engineer and Roberts Creek Water District shall witness all tests made by the contractor to insure they are performed properly. Tests shall be determined by the Engineer prior to testing.
- All construction is subject to inspection by Roberts Creek Water District. The contractor shall give the District 48 hours notice prior to beginning construction.
- No other major utilities shall run parallel within 3 feet of the new watermain.
- Thrust blocks shall be installed at all bends and fittings as per Standard Drawing.
- Water service shall be 1" polyethylene per Roberts Creek standard Detail. Contractor to install all road service crossing in (1/2" min) SCH 40 PVC conduit.
- All MJ fittings shall have MEGA LUG restraint rings in addition to thrust blocks.
- Pipe bedding shall be reject sand per Roberts Creek Water District specifications.

GENERAL STREET IMPROVEMENT NOTES

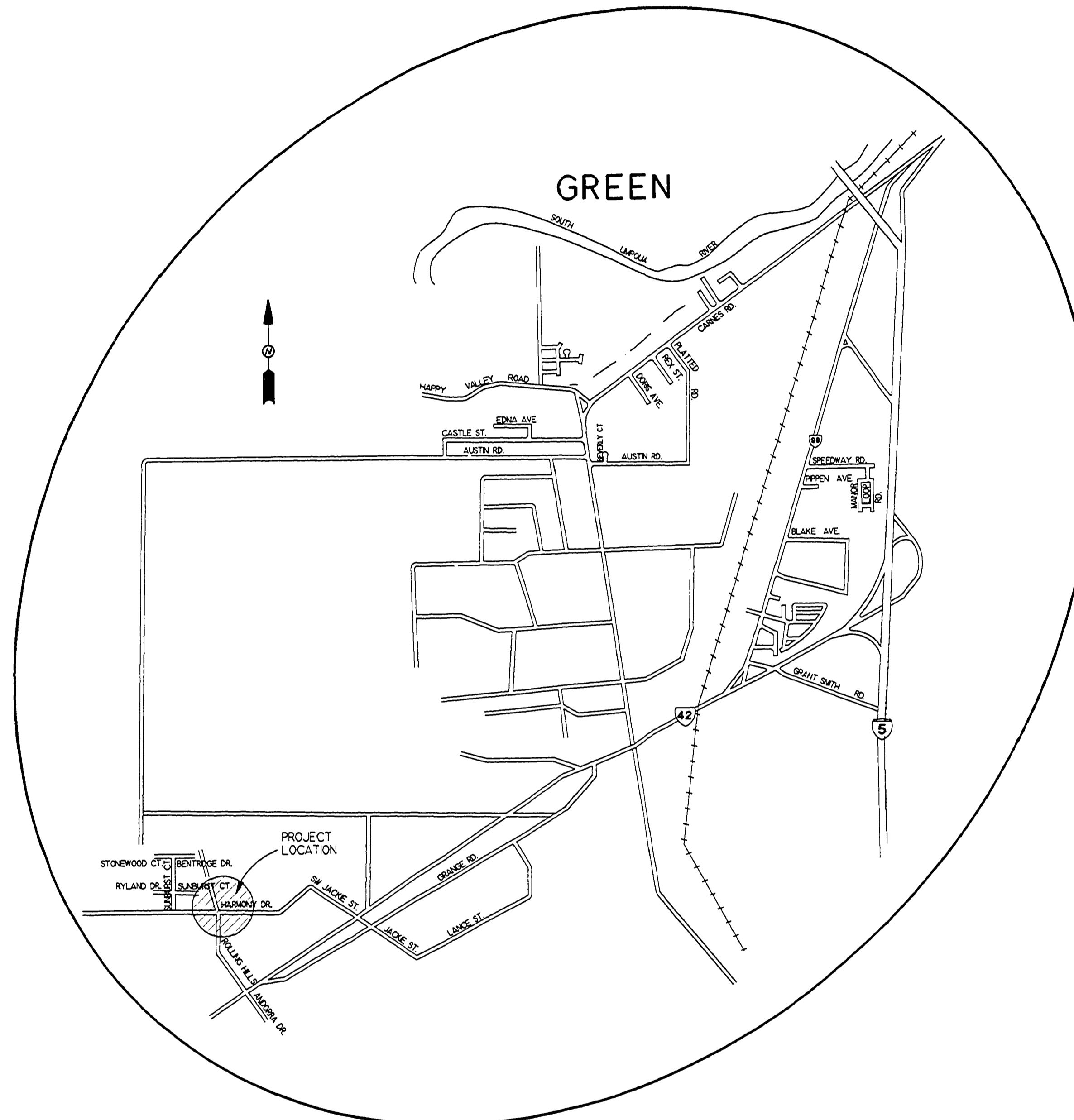
- All street improvement work shall be in conformance with the latest version of City of Roseburg Douglas County Drainage Management Plan Design Standards and Appendix dated May 1990 and Douglas County Public Works Department Design Standards and Standard Drawings. In cases of conflict the Douglas County Standards shall take precedence over the Standard Specifications.
- All asphalt pavement shall be C mix meeting Oregon State Highway Department standards.

GENERAL DRAINAGE NOTES

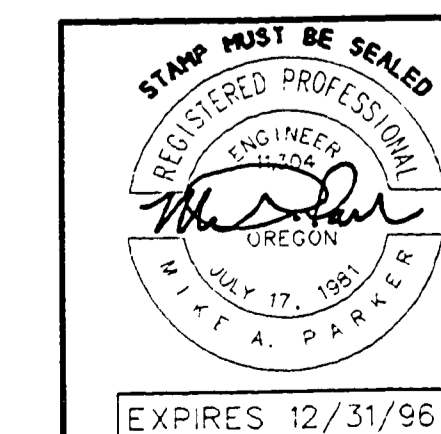
- Crushed rock trench backfill to be under all improved areas. All pipes to be bedded with minimum 4" crushed rock bedding and backfilled with crushed rock in the pipe zone.

GENERAL SANITARY SEWER NOTES

- All sanitary sewer work shall be in conformance with Green Sanitary District Specifications and Ordinance. In case of conflict Green Sanitary District Specifications shall take precedence over the Standard Specifications.
- Sanitary sewer laterals shall be constructed in accordance with Oregon State Department of Commerce Building Codes Division 1988 Uniform Plumbing Code and its amendments except for 8" and larger public sewers which shall be constructed in accordance with D.E.O. standards for public sewers and to the lines grades and details shown on the plans. 4" and 6" laterals shall be PVC ASTM 3034.
- All sewer laterals shall be air tested in accordance with application code.
- All sanitary sewer manholes shall be tested leakproof w/vacuum or water test after final road surface is complete. Test results shall be certified by the Engineer and reported to D.E.O.
- All manhole connections to be factory connectors with non-shrink grout or a cored hole with flexible boot, ie: KOR-N-SEAL.
- Contractor to provide preformed plastic gaskets in all manhole joints.
- Grout for top of manhole frames and bases shall be non-shrink grout.
- Use commercial concrete bonding agent on all concrete to be grouted.
- Concrete shall be class 5 (3/4" max aggregate size) with 6 sacks of cement per cubic yard of concrete, with a minimum compressive strength of not less than 3,000 P.S.I. at 28 days when tested in accordance with ASTM C-39,86.
- Whenever sewer laterals cross water lines with less than 18" vertical clearance, the sewer lateral shall be CS900 PVC or ductile iron pipe 9" minimum each side of water line.
- Manholes will be tested according to 1990 APIWA Standard Specification 306.3.03. Water to be filled to the rim. Contractor may vacuum test manholes with engineer's approval.



VICINITY MAP



Rev.	Date	Description
1	7/28/95	CHANGES PER GREEN SANITARY
2	1/17/96	PLAN REVIEW
3	11/26/96	STREET AS-BUILTS

DES	OK	PROJECT NO. 152-18
DWG	FLB	DATE: JULY 1995
CHK	MAP	SCALE: NO SCALE
APP	M/S	SHEET: 1 OF 3

i.e. 548 S.E. Jackson Suite 3
 Roseburg, Oregon 97470
 PHONE (503) 673-0166
 ENGINEERING FAX (503) 440-9392

Project Name:
HARMONY HILLS IMPROVEMENT PLANS

Title:
COVER and NOTES

CO. RD. #366

RD366COV