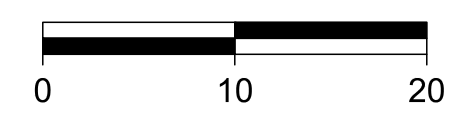


NO.	DATE	REVISION	BY	APP'D	CF



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**LEI** ENGINEERING & SURVEYING  
OF OREGON

PROJECT NO.	14-62
TOTAL SHEETS	12
DATE	3-27-19
PREPARED FOR	CITY ENGINEERS

**CONSTRUCTION NOTES:**

- (SS) CONTRACTOR SHALL CONSTRUCT 4" 3034 PVC SDR-35 PIPE AS SHOWN. BACKFILL IN ACCORDANCE WITH CITY OF HUBBARD DETAIL 601 SHOWN ON SHEET 09.
- (HT) CONTRACTOR SHALL HOT TAP WITH FL X MJ TAPPING VALVE. TAPPING SLEEVE SHALL BE FULL CIRCLE STAINLESS STEEL WITH FLANGE. CONTRACTOR SHALL CONSTRUCT CONCRETE THRUST BLOCK BEHIND TAPPING SLEEVE PURSUANT TO CITY OF HUBBARD DETAIL 403 SHOWN ON SHEET 10.
- (WL X LF) CONTRACTOR SHALL CONSTRUCT 4" DUCTILE IRON PIPE AS SHOWN. BACKFILL IN ACCORDANCE WITH CITY OF HUBBARD DETAIL 601 SHOWN ON SHEET 09. CONTRACTOR SHALL INSTALL THRUST BLOCKING IN ACCORDANCE WITH CITY OF HUBBARD DETAIL 402 & 403 SHOWN ON SHEET 10.
- (WM) CITY FORCES SHALL INSTALL WATER METER WITH BACKFLOW PREVENTION DEVICE, AS SHOWN, PURSUANT TO CITY OF HUBBARD STANDARD DETAIL 410. SIZE OF METER SHALL BE SPECIFIED BY OTHERS.
- (WS X LF) CONTRACTOR SHALL INSTALL 1" WATER SERVICE, AS SHOWN, AND SHALL BE SIZED BY OTHERS. BACKFILL IN ACCORDANCE WITH CITY OF HUBBARD DETAIL 601 SHOWN ON SHEET 09.
- (VW) CONTRACTOR SHALL INSTALL OLDCASTLE PRECAST VAULT 577-WA AND 4" DERINGER 30 DCDA PURSUANT TO MANUFACTURERS SPECIFICATIONS.
- (FD) CONTRACTOR SHALL INSTALL FDC (FIRE DEPARTMENT CONNECTION), AS SHOWN, PURSUANT TO MANUFACTURERS SPECIFICATIONS.
- (GP) CONTRACTOR SHALL INSTALL GUARD POSTS, AS SHOWN, PURSUANT TO ODOT STANDARD DETAIL RD255 ON SHEET 10.
- (MH) CONTRACTOR SHALL INSTALL MANHOLE, AS SHOWN, PURSUANT TO CITY OF HUBBARD DETAIL 101 SHOWN ON SHEET 09. CONTRACTOR SHALL MATCH PIPE CROWNS.
- (MM) CONTRACTOR SHALL INSTALL MONITORING MANHOLE, AS SHOWN, PURSUANT TO CITY OF HUBBARD STANDARD DETAIL 109 ON SHEET 10.
- (DM) CONTRACTOR SHALL INSTALL 72" SHALLOW MANHOLE WITH OIL/WATER SEPARATOR AND FLOW CONTROL DEVICE, AS SHOWN. REFERENCE DETAIL SHOWN ON SHEET 11. MANHOLE LID SHALL BE GRATED FOR WATER INLET AND TRAFFIC RATED.
- (CO) CONTRACTOR SHALL INSTALL CLEANOUT, AS SHOWN, PURSUANT TO CITY OF HUBBARD DETAIL 105 SHOWN ON SHEET 09.
- (S24 X LF) CONTRACTOR SHALL CONSTRUCT 24" ADS N-12 PIPE SLOPED AT 0.10% AS SHOWN. BACKFILL IN ACCORDANCE WITH CITY OF HUBBARD DETAIL 601 SHOWN ON SHEET 09.
- (S8 X LF) CONTRACTOR SHALL CONSTRUCT 8" SDR 35 ASTM D3034 PVC PIPE SLOPED AT 1.0%, AS SHOWN. BACKFILL IN ACCORDANCE WITH CITY OF HUBBARD DETAIL 601 SHOWN ON SHEET 09.
- (S6 X LF) CONTRACTOR SHALL CONSTRUCT 6" SDR 35 ASTM D3034 PVC PIPE SLOPED AT A MINIMUM SLOPE OF 1.0% AS SHOWN. BACKFILL IN ACCORDANCE WITH CITY OF HUBBARD DETAIL 601 SHOWN ON SHEET 09.
- (RD) CONTRACTOR SHALL INSTALL ADS N-12 24" X 6" REDUCER TEE, AS SHOWN, PURSUANT TO MANUFACTURERS SPECIFICATIONS.
- (SD XX) CONTRACTOR SHALL INSTALL SDR 35 ASTM D3034 PVC FITTING, AS SHOWN, PURSUANT TO MANUFACTURERS SPECIFICATIONS.

UTILITY PLAN

05