## RECORD PLAN SEE SHEET 25 This growing is turnished to informational purposes only and not intended to be complete an REFERENCE NOTES: 1 SEWER SERVICE SHALL BE CONSTRUCTED PER B (2) PRIOR TO CONSTRUCTION, CONTRACTOR SHALL POTHOLE NORTHERN NATURAL GAS PIPELINES TO VERIFY DEPTH. AT A MINIMUM, THE PIPELINES SHALL BE POTHOLED WHERE THEY CROSS THE PROPOSED STREET CENTERLINE AND AT THE CURB LINES. CONTRACTOR SHALL SUPPORT PIPELINES AS NECESSARY TO PROTECT THE PIPELINES. CONTRACTOR SHALL ALSO EXPOSE PIPES AS DIRECTED BY ENGINEER PRIOR TO CROSSING WITH THE WATERMAIN AND SEWER. AS SHOWN, THE GAS PIPELINES ARE B INCHES AND 12 INCHES IN DIAMETER. 3 THE FOLLOWING RESTRAINED JOINTS FOR THE CARRIER PIPE SHALL BE APPROVED SAN/MH 308 SAN/WH FOR USE ON THIS PROJECT FOR THE PVC GRAVITY SEWER PIPE PLUG a. BELL CLAMPS WITH TIE RODS. -- THIS OPTION WAS USED -8"X8" b. "CERTA LOK" AS MANUFACTURED BY CERTAINTEED OR EQUAL DIP TEE \*\* CAUTION \*\* DIP TEE c. "EAGLE LOC" AS MANUFACTURED BY JM EAGLE OR EQUAL. GAS CROSSING 35LF 8" DIP (CL 52). ALL CARRIER PIPES SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE COSTS ASSOCIATED WITH PROVIDING RESTRAINED JOINTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CARRIER PIPE SHALL BE 8" GATE VALVE AND 1+00 BOX AND 8" DIP PLUG SAN/MH 303 0+1987 A PAID SEPARATELY PER ITEM 2503-8" PVC PIPE SEWER SDR 35. DIP BÉND 55LF 6" PVC (SDR 26) ① - B" 11 1/4" DIP BEND EXISTING GAS PIPELINES INV=873.09-VALVE AND (AT VERTICAL BEND) BOX -B" DIP 50LF PLUG 8" PVC (SDR 35) @ 0.62% 38LF B" DIP CAP 310 WATERMAIN INV=872.12 MEGALUGGED BENDS AS REQUIRED— (CL 52) PROPOSED WATERMAIN CENTER TWO. 20' LENGTHS OF WATERMAIN AT CROSSING TRANSITION TO SPECIFIED -DEPTH (TYP.) INSTALL VERTICAL BEND AS REQUIRED NORTHERN NATURAL GAS PIPELINE CROSSING SEE SHEET 25 NORTHERN-890 PROPOSED & PROFILE 890 NATURAL GAS PIPELINES (2) . 886. 886 **7.5 FEET** EXISTING: C PROFILE MINIMUM: BURY DEPTH (TYPICAL) 882 882 DIP BEND 3D2LF 8" DIP. WATERMAIN (CL 52) 878 36" MINIMUM. 8" PVC (SDR 35) 874 874 0.60% DIP BEND 75LF B" PVC (SDR 35) @ 0.56% 870 870 887.65 (E)=871.71 (W)=871.81 (S)=871.81 -54LF WELDED STEEL PIPE-JACKED ③ 866 866 ₹25€ ₹£₹∰ 862 862 DATE SHEET SANITARY SEWER AND WATERMAIN PLAN REVISED STORM SEWER RECORD PLAN UPDATED SANITARY SEWER RIM ELEVATIONS Hakanson Anderson TAE 29 Civil Engineers and Land Surveyors 3801 Thurston Ave., Anoka, Minnesota 55303 763-427-5880 FAX 763-427-0520 NATURES EDGE BUSINESS CENTER OF DMS PHASE 2 IMPROVEMENTS 168TH AVENUE www.hakanson-anderson.com CITY OF ELK RIVER, MINNESOTA Lic. No. 23461 ate <u>8/15/14</u> SHEETS ER302