TABLE OF CONTENTS oden water system SEC. 5 W1 COVER SHEET. SITE OVERVIEW WATER SYSTEM IMPROVEMENT PROJECT W2 SITE PLAN AND PROFILES: SECTION A W3 SITE PLAN AND PROFILES: SECTION B W4 WATER SYSTEM DETAILS WEST ODEN BAY ROAD WATER MAIN REPLACEMENT F1 FIELD ORDER 1: EROSION AND GRADING PLAN ODEN WATER ASSOCIATION INC. SECTION 8-T57N-R1W TAX 26, 32, 48 PARCEL RP57N01W083101A BONNER COUNTY, IDAHO WATER SYSTEM CONSTRUCTION NOTES THE EXISTENCE AND LOCATION OF WATER FACILITIES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE PUBLIC RECORDS. LOCATION AND ELEVATION OF EXISTING WATER FACILITIES TO BE CONFIRMED BY FIELD MEASUREMENTS AND EXCAVATION EXPLORATION BY THE CONTRACTOR PRIOR TO BEGINNING OF NEW WORK. THIS WILL ALLOW TIME TO PERMIT REVISION OF PLANS, AS NECESSARY, THE ODEN WATER ASSOICATION AND 7B ENGINEERING SHALL NOT BE HELD RESPONSIBLE FOR ANY ERROR IN THE LOCATION AND ELEVATION OF THE EXISTING WATER FACILITIES. THE ODEN WATER ASSOCIATION AND THE ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO COMMENCING WORK WITHIN THE PUBLIC RIGHT-OF-WAY AFTER A RIGHT-OF-WAY PERMIT IS ACQUIRED. WATER SYSTEM INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, PANHANDLE HEALTH DEPARTMENT. AWWA. AND THE IDAHO DIVISION OF BUILDING SAFETY. COORDINATE SETTING OF METER, AND WATER SERVICES WITH THE ODEN WATER ASSOCIATION AND THE ENGINEER. INFORM THE ASSOCIATION 48 HOURS IN ADVANCE OF SETTING. ALL COMPONENTS SHALL REMAIN UNCOVERED UNTIL APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE. 3. WATER SYSTEM DETAILS ISPWC STANDARD DRAWINGS SD-401, SD-402, SD-403, SD-404, SD-406, SD-407, AND SD-408A SHALL BE INCORPORATED AS PART OF THESE PLANS AND SPECIFICATIONS UNLESS OTHERWISE MODIFIED HEREIN. CONTACTOR/DEVELOPER IS RESPONSIBLE FOR ALL TESTING PRIOR TO ACCEPTANCE BY THE ODEN WATER ASSOCIATION. TESTING SHALL INCLUDE CHLORINATION, BACTERIA, PRESSURE. RESULTS PRIOR TO ACCEPTANCE, SHALL BE SUBMITTED AND APPROVED BY ODEN WATER ASSOCIATION AND ENGINEER. 10. TRACING WIRE (12 AWG) SHALL BE PLACED ATOP ALL WATER MAINS AND SHALL BE BROUGHT TO THE SURFACE AT EACH MAINLINE AND FIRE HYDRANT VALVE. TRACING WIRE SHALL BE PLACED ATOP ALL WATER MAINS AND WATER SERVICE LINES. THE WIRE SHALL BE BROUGHT TO THE SURFACE ON THE OUTSIDE OF EACH WATER SERVICE CURB BOX AND FIRE HYDRANT AND INSIDE FACH VALVE BOX. 1. ALL AREAS DISTURBED WITHIN THE RIGHT-OF-WAY OR WITHIN EASEMENTS SHALL BE RESTORED TO AS-FOUND OR BETTER CONDITION TO THE SATISFACTION OF THE PROPERTY OWNER OR THE AUTHORITY HAVING JURISDICTION. 12. WATER MAIN LINE SHALL BE C-900 PVC OR APPROVED EQUAL CONFORMING TO AWWA STANDARDS AND BE CERTIFIED BY AN ACCREDITED ANSI CERTIFICATION BODY TO MEET APPLICABLE ANSI/NSF STANDARDS. 13. WATER INSTALLATÍON SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATIONS, ISPWC SECTION 400, AND TO THE DEPTHS SHOWN IN THESE DRAWINGS. 14. TRENCH EXCAVATION SHALL COMPLY WITH ISPWC SECTION 301 AND FOUNDATION STABILIZED PER ISPWC SECTION 304 AND SD-301. 15. PIPE BEDDING SHALL COMPLY WITH ISPWC SECTION 305 AND SD-302. CLASS A1 BEDDING TO BE USED FOR TYPICAL BEDDING OF PIPES. CLASS B2 SHALL BE USED ON ALL NON-POTABLE CROSSINGS vicinity map 16. TRENCH BACKFILL SHALL COMPLY WITH ISPWC SECTION 306. TYPE A TRENCH BACKFILL SHALL BE USED IN ALL DEVELOPED AREAS. TYPE C TRENCH IN ALL LANDSCAPE & 7. STREET CUTS SHALL COMPLY WITH ISPWC SECTION 307 AND SD-303. 18. SEWER AND WATER CONFLICTS SHALL COMPLY WITH SEPARATION REQUIREMENTS OF ISPWC SECTION 405 AND STANDARD DRAWING SD-407. 19. ATTACH LOCATE WIRE TO CROWN OF PIPE USING ELECTRICAL TAPE AND PROVIDE 12 INCHES OF SLACK WIRE ABOVE GROUND AT EACH LOCATION OF WIRE BOX. TEST FOR CONTINUITY AND REPAIR ANY DAMAGE TO WIRE. 20. INSTALL LOCATING (MARKER) TAPE DURING BACKFILLING AT 18 TO 24 INCHES ABOVE THE CROWN OF THE PIPE. 21. TRENCHES SHALL BE FULLY DEWATERED PRIOR TO PLACEMENT OF PIPE PROPERLY BEDDED TO THE LINE AND GRADE SHOWN IN THESE PLANS. OWNER AN ADJACENT PROPERTY PARCEL NUMBERS LOT 9 22. CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR ALL TESTING OF WATER MAINS PRIOR TO ACCEPTANCE BY DEQ PER ISPWC SECTION 401 (3.6) 150 LBS. FOR 2 HOUR HOLDING ODEN WATER ASSOCIATION, (RP57N01W083101A) 23. CONTRACTOR/DEVELOPER TO DISINFECT, AND WASH WATER MAINS AFTER INSTALLATION PER ISPWC SECTION 401 (3.9). METHOD TO BE USED SHALL BE CHLORINE TABLETS OR 2 Thunder Ranch Land & Cattle Co (RP57N01W083004A, RP57N01W054002A) SHEET 3 Viper Rental Ltd (RP034230000010A, RP034230000020A) 24.3M MID-RANGE MARKERS #1257 SHALL BE PLACED AT EACH VALVE. 10 25. WHERE MJ FITTINGS ARE USED ROMAC GRIP RING ASSEMBLY KITS SHALL BE USED. 4 Kallis, Dean R & Ester (RP002980000150A) 26. THRUST BLOCKS SHALL BE PLACED AT CHANGE OF DIRECTION OF ALL WATER MAINS AND SERVICES LARGER THAN 2", SEE ISPWC SD-403 FOR THRUST BLOCK STANDARDS. 27. NEW CONNECTION CAN BE COMPLETED BY THE CONTRACTOR UNDER THE OBSERVATION OF THE ODEN WATER ASSOCIATION. (72 HRS NOTICE REQUIRED) 5 Finnerty Trust (RP002980000140A) SEE | 6 | Buday, Richard A & Andrea J (RP002980000130A) Sal Vi 27. WHEN TWO WATER SERVICES ARE INSTALLED BESIDE EACH OTHER AND ARE LAID IN A COMMON TRENCH, THE CURB STOPS AND SERVICE LINES SHALL 7 Lewis, William E (RP002980000120A) NOT BE MORE THAN TWO FEET APART. THE WATER SERVICES SHALL BE INSTALLED ON PROPERTY CORNERS THAT DO NOT CONTAIN OTHER UTILITIES. 28. CURB STOP DIRECTION SHALL BE DETERMINED BY THE WATER OPERATOR. LOT 10 8 Cosgrove, Susan Ford (RP002980000110A) **...** 29. ALL BUSHINGS, NIPPLES, AND FITTING SHALL BE BRASS TO MEET NSF 61 CERTIFICATION - GALVANIZED WILL NOT BE ACCEPTED. 9 Schillinger, Dean Erich (RP0029800010A0A) 30. ALL SERVICE SADDLES SHALL BE DOUBLE STRAP WITH STAINLESS STEEL STRAPS. SECTION | 10 | Larry & Denise Walker Living Trust (RP57N01W056600A,RP00298000009BA) 1. DEAD END MAINS SHALL HAVE A STANDARD FIRE HYDRANT FOR FLUSHING PURPOSES. 32. FOLLOWING SETTING, FIRE HYDRANT MUST BE PAINTED WITH HYDRANT YELLOW ENAMEL. 33. FIRE HYDRANT VALVES SHALL BE ATTACHED TO TEE AT MAIN. LEGEND 34. FIRE HYDRANT REQUIRES A STORZ ADAPTER. 35. SNOW FLAG MARKER REQUIRED PRIOR TO ACCEPTANCE BY COUNTY OR NORTHSIDE FIRE. SPRING STEEL MARKER FLAG 75193 (RED/WHITE/REFLECTIVE). R/W RIGHT-OF-WAY 36. KING LOCK K-3 FIRE HYDRANT LOCK IS REQUIRED WITH EACH FIRE HYDRANT ASSEMBLY. ------ PROPERTY PARCEL — — — — — — EASEMENT LINE LOT 11 NEW WATER MAIN 1 BONNER COUNTY PUBLIC RIGHT-OF-WAY (TYPICAL) NEW WATER SERVICE STUB —— W—— W—— EXISTING WATER MAIN (2) APPROXIMATE PROPERTY BOUNDARIES ——— F∠⊓———— EXISTING FIBER COMMUNIONS OVERHEAD POWER LINES (3) ODEN WATER RESERVOIR SITE - GAS LINE ASSEMBLY 3 - HIGH POINT - AIR RELEASE/VACUUM VALVE NEW WATER SYSTEM IMPROVEMENTS 12" C900 DR 18 PVC WATERMAIN (~2,255 LF) (REFER TO DETAIL III/W3 & G/W4) 1 - 48" PRECAST MANHOLE TYPE A EXISTING CULVERT / STORM PIPE 5 EXISTING 10" C900 DR18 PVC WATERMAIN (CONSTRUCTED IN 2005) CONNECTS TREATMENT PLANT TO RESERVOIRS & DISTRIBUTION SYSTEM 1 - AIR RELEASE/VACUUM VALVE ----- EXISTING GRADE 5' CONTOUR (18) ASSEMBLY 4-TEMPORARY RECONNECTION TO 8" CLASS 100 ASBESTOS LOT 12 -EXISTING GRADE 1' CONTOUR EXISTING 8" CLASS 100 ASBESTOS CEMENT WATERLINE. (APPROXIMATE LOCATION CONTRACTOR TO POT HOLE CEMENT & PHASE II FUTURE CONNECTION POIN 7 A VERIFY). RETAIN AND PROTECT WATERLINE- WILL BE USED TO SUPPLY ADDITIONAL WATER UNTIL PIPELINE PROPERTY CORNER, CALCULATED POINT (SEE DETAIL IV/4) EXISTING WATERLINE WHICH WILL BE UTILIZED UNTIL FAILURE. (EASEMENT) ALL PARTS ARE CONNECTED TO F-16 "SEE TABLES ON SHEET W3" 7 EXISTING 6" CLASS 100 ASBESTOS CEMENT WATERLINE (APPROXIMATE LOCATION). RETAIN AND PROTECT EXISTING WATER LINE. WATER LINE WILL BE UTILIZED TO SERVE LOWER W ODEN BAY ROAD. CONNECTION TO EXISTING DISTRIBUTION- END OF PROPOSED REPLACEMENT. | - 12" TO 8" D.I REDUCER ASSEMBLY 1- PHASE I EXTENSION CONNECTION (SEE DETAIL I/W2) CONNECTION BETWEEN NEW 12" PVC MAIN TO EXISTING 10" PVC C900 MAIN, EXISTING 6" 1 – 8" D.I. GATE VALVE 1 – 12" D.I. GATE VALVE CLASS AC MAIN, AND FUTURE TANK CONNECTION. 2-12" C900 PVC DR 18 STUB W/ COUPLER TO EXISTING AC 100 WATER MAIN. ALL PARTS ARE CONNECTED TO TEE FITTINGS E-0, F-2, F-3, & F-5 "SEE FITTING TABLE" CONNECTION TO EXISTING 10" WATER MAIN (FUTURE TANK BYPASS) 1 - 45° D.I BEND 1 - 22.5 D.I BEND 1 - 10" D.I. GATE VALVE (EG-3, 10" EXISTING VALVE WAS IN) RESTRAIN AND THRUST BLOCK CONNECTION. 1 - 10" 45° D.I. ELBOW (F-0) (19) EXISTING GROUND CONTOURS (5' MAJOR, 1' MINORS) 1 - 10" 22.5 D.I ELBOW (F-1) 1 - 12" TO 10" D.I REDUCING TEE (F-2) LOT 13 ~ 10 LF OF 10" C900 PVC (A-1) (20) FINSHED GROUND CONTOURS (5' MAJOR, 1' MINORS) (8B) CONNECTION BETWEEN NEW 12" C900 MAIN & EXISTING 6" AC WATER MAIN 1 - 12" TO 6" D.I. REDUCING TEE 1 - 6" D.I. GATE VALVE (G-2) 1 - 6" 90° D.I. ELBOW (F-0) SECTION A: SEE SHEET 2 ~ 20 LF OF 6" C900 PVC (A-2 & A-3) 8C ISOLATION VALVE - START OF ODEN REPLACEMENT PIPE RUN 1- 12" D.I. GATE VALVE (G-1) BD FUTURE 12" STUB CONNECTION TO STORAGE TANKS LOT 14 1 - 12" D.I. GATE VALVE (G-2) 1 – 12" D.I. BLIND FLANGE CAP (8E) EXISTING CONNECTION BETWEEN 8" AC & EXISTING 6" WATER MAIN 1 - 6" D.I. GATE VALVE (EG-4) 1 - 8" TO 6" REDUCING TEE (EF-1) 9) ASSEMBLY 2 - LOW POINT - FIRE HYDRANT (SEE DETAIL II/W2) ALL PARTS ARE CONNECTED TO F-10 "SEE TABLES ON SHEET W2") 5-57N-1W SW S OF CO RD LESS TAX 13 & LESS PT (SEE DETAIL C/W4) RESTRAIN & THRUST BLOCK ASSEMBLY E OF W ODEN BAY RD SWNW S OF RR R/ LOT 15 1- 12" TO 6" D.I REDUCING TEE 1- 6" ALPHA GATE VALVE (FLGXMJ) 1- WATEROUS HYDRANT OR EQUAL (60" MIN BURY DEPTH) PROPERTY MONUMENTS PER SURVEY (10) NEW D.I. 12" VERTICAL OR HORIZONTAL BENDS (SEE FITTING TABLES ON SHEET W2 & W3) REPLACEMENT WATER ALIGNMENT- SECTION A (11) PIPE DEFLECTION (< 1° MAX DEFLECTION ~ 0.48' FOR 20 LF PIPE SECTIONS) ---WEST SHORE LANE RAISE GROUND IN AREA (REFER TO FIELD ORDER 1) COVER PIPE WITH 4' MIN OF COVER ------LE MONET ON THE EXISTING CULVERT BELOW SECTION (PIPE HAS MORE LESS TAX 26 THAN 18" OF SEPARATION, SEE DETAIL A/4 BEACH LOT 2 LE MONET ON THE 2 NEW WATER SERVICES (DETAIL E/W4) (3 EXISTING CONNECTIONS). AFTER TESTING AND APPROVAL OF NEW WATER MAIN RECONNECT BEACH LOT 1 ODEN WATER 14 EXISTING 8" AC WATER MAIN CROSSING (SEE DETAIL A/4) ASSOCIATION REVISION DATE DESCRIPTION PROJECT #: 21100 ORIGINAL STORED AT: PROJECT #: 21100 7B ENGINEERING 414 CHURCH ST STE 203 DRAWN BY: ICE * NEW WATER MAIN WAS PLACED OVER EXISTING MÁIN AND BACKFILLED WITH CLASS III BEDDING RESERVOIR SITE \mathbb{R} 8/08/23 REPLACES SHEET W1 WITH CHANGES. REMOVED ODEN BAY DRIVE CONNECTION. MATERIAL. P-13 HAS LOW COVER ~42". 4" OF FOAM BOARD RC30 PLACED OVER PIPE COVER - SITE OVERVIEW SANDPOINT, ID 83864 CHECKED BY: DWL BEDDING WHICH GIVES THE PIPE A EQUIVALENT TO 5' OF COVER. 12/01/23 REPLACES SHEET W1A WITH CHANGES. RELOCATED PIPE OUT OF PAVEMENT. SEE FIELD ORDER 1 $\frac{12}{20}$ | $\frac{12}{20}$ | RECORD PLANS. ALIGNMENT & CONNECTION ADJUSTED ON SITE (15) APPROXIMATE CENTER OF MONTANA RAIL LINK OWNED BY BNSF ODEN WATER ASSOCIATION INC. 2024-12-20 (16) BNSF RAILROAD RIGHT-OF-WAY .14 CHURCH STREET, SUITE 203 N DANIEL LARSON DRAWING DATE: 1"=100' E OF D SANDPOINT, IDAHÓ 83864 **AS-BUILT** know what's below. ODEN WATER SYSTEM IMPROVEMENTS (VALID FOR 24"x36" OR 22"x34") (208)263-0623 12/20/2024 Call before you dig. BONNER COUNTY, ID SHEET W1B OF 5 info@7BEngineering.com