NORTH KOOTENAI WATER DISTRICT
STANDARD WATER SPECIFICATIONS

GENERAL:

1. COMPACTION TEST RESULTS, WHEN AVAILABLE, SHALL BE IMMEDIATELY FORWARDED TO THE DISTRICT MANAGER.

2. BACTERIOLOGICAL TESTS SHALL BE TAKEN FROM NEW WATER MAINS BY THE CONTRACTOR AT TIMES AND PLACES APPROVED BY AND IN THE PRESENCE OF THE DISTRICT MANAGER OR HIS/HER REPRESENTATIVE AND THE RESULTS, WHEN AVAILABLE, SHALL BE IMMEDIATELY FORWARDED TO THE DISTRICT.

3. ALL WORK PERFORMED ON PUBLIC WATER SYSTEM IMPROVEMENTS SHALL BE DONE BY FIRMS OR INDIVIDUALS WHO POSSESS A VALID IDAHO PUBLIC WORKS CONTRACTORS LICENSE AS REQUIRED BY TITLE 54, CHAPTER 19, IDAHO CODE AS AMENDED, "THE PUBLIC WORKS CONTRACTORS LICENSE ACT", OR, BY DISTRICT EMPLOYEES.

4. PLANS AND SPECIFICATIONS FOR WATER SYSTEM IMPROVEMENTS THAT WILL BE OWNED OR MAINTAINED BY THE DISTRICT SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF IDAHO AND REVIEWED AND APPROVED BY THE DISTRICT MANAGER AND THE DISTRICT ENGINEER. IF REQUIRED, THE PLANS AND SPECS SHALL ALSO BE REVIEWED AND APPROVED BY THE DEQ AND/OR PANHANDLE HEALTH DISTRICT.

5. BEFORE A PROJECT WILL BE ACCEPTED AS COMPLETED, THE DEVELOPER/PROJECT ENGINEER SHALL PROVIDE TO THE DISTRICT A "PROJECT COMPLETION CHECKLIST" WITH EACH ITEM ON THE CHECKLIST COMPLETED TO THE SOLE SATISFACTION OF THE DISTRICT.

6. PARAGRAPH 5.04/B/1 OF DIVISION 100-GENERAL CONDITIONS SHALL INCLUDE THE FOLLOWING:

   THE CONTRACTOR SHALL NOT BEGIN WORK IN ANY PUBLIC RIGHT-OF-WAY OR EASEMENT UNTIL HE/SHE HAS OBTAINED ALL THE INSURANCE AS REQUIRED BELOW AND SATISFACTORY PROOF OF SUCH INSURANCE HAS BEEN SUBMITTED TO AND APPROVED BY THE DISTRICT MANAGER. SUCH INSURANCE SHALL CONTAIN A PROVISION PREVENTING CANCELLATION WITHOUT TEN (10) DAYS PRIOR WRITTEN NOTICE TO THE DISTRICT. THE DISTRICT, ITS OFFICERS, AGENTS AND EMPLOYEES SHALL BE NAMED AS ADDITIONAL INSURED ON ALL INSURANCE POLICIES. THE CONTRACTOR SHALL NOT ALLOW ANY SUB-CONTRACTOR TO BEGIN WORK ON ITS SUB-CONTRACT UNTIL THE INSURANCE REQUIRED OF THE SUB-CONTRACTOR HAS BEEN OBTAINED. CERTIFICATES EVIDENCING THE ISSUANCE OF THE FOLLOWING INSURANCE SHALL BE FILED WITH THE DISTRICT BEFORE WORK BEGINS.

TYPE OF COVERAGE	LIMITS OF LIABILITY
WORKERS COMPENSATION AND EMPLOYERS LIABILITY	STATUTORY
COMPREHENSIVE GENERAL LIABILITY WHICH SHALL INCLUDE, OR BE ENDORSED TO INCLUDE, THE FOLLOWING:	BODILY INJURY $1,000,000 EACH
a) CROSS LIABILITY COVERAGE b) BLANKET CONTRACTUAL LIABILITY c) CONTRACTOR'S PROTECTIVE LIABILITY d) PRODUCTS AND COMPLETED OPERATIONS e) BROAD FORM PROPERTY DAMAGE f) XCU PROPERTY DAMAGE LIABILITY	PROPERTY DAMAGE $500,000 EACH OCCURRENCE, $1,000,000 AGGREGATE
g) AUTOMOBILE LIABILITY INSURANCE COVERING ALL AUTOMOBILES, TRUCKS, TRACTORS, TRAILERS, OR OTHER AUTOMOTIVE EQUIPMENT WHETHER OWNED OR RENTED BY THE CONTRACTOR, OR EMPLOYEES OF THE CONTRACTOR.	BODILY INJURY $1,000,000 EACH ACCIDENT PROPERTY DAMAGE $500,000 EACH ACCIDENT

THE CONTRACTOR SHALL PAY THE PREMIUMS THEREON AND MAINTAIN SUCH INSURANCE IN EFFECT UNTIL THE COMPLETION OF THE WORK. THE CONTRACTOR SHALL AGREE TO INDEMNIFY, HOLD HARMLESS AND DEFEND THE DISTRICT FROM AND AGAINST ANY AND ALL LIABILITY FOR LOSS, DAMAGE OR EXPENSE WHICH THE DISTRICT MAY SUFFER OR FOR WHICH THE DISTRICT MAY BE HELD LIABLE BY REASON OF INJURY (INCLUDING DEATH) TO ANY PERSON OR DAMAGE TO ANY PROPERTY ARISING OUT OF OR IN ANY MANNER CONNECTED WITH THE WORK UNDER THIS CONTRACT WHETHER OR NOT DUE IN WHOLE OR IN PART TO ANY ACT, OMISSION, OR NEGLIGENCE OF THE DISTRICT OR ANY OF ITS REPRESENTATIVES OR EMPLOYEES TOGETHER WITH ANY AND ALL ATTORNEY'S FEES INCURRED BY OWNER ON ACCOUNT THEREOF.

GENERAL:

7. WORK SHALL NOT BEGIN UNTIL THE CONTRACTOR'S PROOF OF INSURANCE HAS BEEN APPROVED BY THE DISTRICT MANAGER.

8. FORTY-EIGHT (48) HOUR ADVANCE NOTICE SHALL BE GIVEN TO NORTH KOOTENAI WATER DISTRICT (208-687-6593) BEFORE CONSTRUCTION ON THE WATER SYSTEM IMPROVEMENTS BEGIN AND BEFORE ANY REQUIRED SHUT DOWNS OF THE OPERATING WATER SYSTEM. HOURS FOR ANY SCHEDULED SHUT DOWNS WILL BE NO EARLIER THAN 9:00 AM AND RETURN TO NORMAL OPERATIONS BY NOT LATER THAN 4:00 PM AND SHALL BE NO LONGER THAN 4 HOURS. ANY OTHER EXCEPTIONS TO THESE TIMES MUST BE AUTHORIZED BY THE DISTRICT MANAGER.

9. OPERATION OF VALVES OR OTHER COMPONENTS OF THE EXISTING WATER SYSTEM SHALL BE DONE ONLY BY DISTRICT PERSONNEL.

10. HOURS OF WORK SHALL BE BETWEEN 7:00 A.M. AND 5:00 P.M. MONDAY THROUGH FRIDAY, EXCEPTING DISTRICT DEFINED HOLIDAYS. WORK AT OTHER TIMES MAY BE ALLOWED ONLY WITH PRIOR WRITTEN APPROVAL BY THE DISTRICT MANAGER.

11. LOCATION AND ELEVATION OF EXISTING WATER FACILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS AND EXCAVATION EXPLORATION BY THE CONTRACTOR PRIOR TO BEGINNING OF NEW WORK.

12. ALL WATER MAINS, VALVES, FIRE HYDRANTS, SERVICES, AND APPURTENANCES SHALL BE INSTALLED, TESTED, AND APPROVED PRIOR TO PAVING AND TIE-INS TO THE EXISTING SYSTEM.

13. RECORD DRAWINGS DEPICTING ACTUAL CONSTRUCTION MUST BE SUBMITTED TO THE DISTRICT MANAGER WITHIN 30 DAYS OF COMPLETION OF CONSTRUCTION. ANY DEVIATION FROM THE APPROVED CONSTRUCTION PLANS SHALL BE NOTED ON THE RECORD DRAWINGS.

14. ADD DRAWING SD-409, WATER SERVICE.

15. ADD DRAWING SD-410, FIRE HYDRANT.

16. ADD DRAWING SD-411A, TRENCH AND PIPE ZONE (ASPHALT OR GRAVEL SURFACE).

17. ADD DRAWING SD-411B, TRENCH AND PIPE ZONE (DIRT OR GRASS SURFACE).

18. ADD DRAWING SD-412A, THRUST BLOCK (HORIZONTAL).

19. ADD DRAWING SD-412B, THRUST BLOCK (VERTICAL).

20. ADD DRAWING SD-413, WATER DISTRIBUTION VALVE

21. ADD DRAWING SD-414, MANUAL AIR RELEASE STATION

22. ADD DRAWING SD-415, TYPICAL CLEANOUT

23. ADD DRAWING SD-416, ABOVE GRADE SAMPLING STATION

24. ADD DRAWING SD-417, MANHOLE

25. ADD DRAWING SD-418, CONVENTIONAL GRAVITY SEWER LATERAL

26. ADD DRAWING SD-419, AUTOMATIC COMBINATION AIR RELEASE/AIR VACUUM VALVE

27. ADD DRAWING SD-420, IN-LINE PRESSURE CLEANOUTT

28. ADD DRAWING SD-421, TEE PRESSURE CLEANOUT

29. ADD DRAWING SD-422, CROSS PRESSURE CLEANOUT

30. ADD DRAWING SD-423, WATER SERVICE WITH PRV

31. ADD DRAWING SD-424, GRAVITY RAW TYPE "A" SERVICE

32. ADD DRAWING SD-425, GRAVITY EFFLUENT TYPE "B" SERVICE

33. ADD DRAWING SD-426, PRESSURE RAW TYPE "C" SERVICE

34. ADD DRAWING SD-427, PRESSURE EFFLUENT TYPE "D" SERVICE

35. ADD DRAWING SD-428, TYPE "C" AND "D" TYPICAL VALVE BOX

36. ADD DRAWING SD-429, TYPE "C" AND "D" TYPICAL VALVE BOX FITTINGS

37. ADD DRAWING SD-430, 3" AIR RELEASE VALVE REPLACEMENT

38. ADD DRAWING SD-431, 4" CLEANOUT

39. ADD DRAWING SD-432, ACCESSORY LIVING UNIT DISCONNECT

40. ADD DRAWING SD-433, PRV DETAIL

41. ADD DRAWING SD-434, 2" BLOWOFF

COPYRIGHT 2022
Welch-Comer & Associates, Inc.
This document, and ideas and designs incorporated herein, as an instrument of professional service, is the property of Welch-Comer & Associates, Inc., and is not to be used in whole or in part for any other project without the written authorization of Welch-Comer & Associates, Inc.

WELCH-COMER
ENGINEERS | SURVEYORS
www.welchcomer.com
330 E. Lakeside Ave, Suite 101
Coeur d'Alene, ID 83814
208-664-9382
(toll free) 877-815-5672
(fax) 208-664-5946

NO.	DATE	REVISION DESCRIPTION	BY

NORTH KOOTENAI WATER DISTRICT
STANDARD WATER SPECIFICATIONS

PROJ NO:
DESIGNED BY:
DRAWN BY: JSF
CHECKED BY:
DWG NAME: NKWD-STD-SPECS.DWG
DATE: 06-24-2024
SHEET NO:

A4

N:\Projects\NKWD\Civil\dwg\STANDARDS\NKWD-STD-SPECS.dwg, 6/25/2024 10:52:50 PM, jfox, 1:2

NORTH KOOTENAI WATER DISTRICT
STANDARD WATER SPECIFICATIONS

WATER SYSTEM NOTES:

1. WATER:
ALL WORK SHALL CONFORM TO OR EXCEED THE PERTINENT SECTIONS OF THE NORTH KOOTENAI WATER DISTRICT STANDARD WATER SPECIFICATIONS.

2. WATER PIPE:
WATER MAIN PIPE SHALL BE [INSERT MATERIAL] CLASS [INSERT PRESSURE RATING] OR GREATER, SIZED AS SHOWN ON THE PLANS. ALL WATER PIPE SHALL BE PLACED WITH MINIMUM COVER OF 54".

MINIMUM NOMINAL PIPE DIAMETER FOR WATER MAINS SHALL BE EIGHT INCHES (8") UNLESS OTHERWISE APPROVED BY THE DISTRICT MANAGER. MINIMUM PRESSURE CLASS SHALL BE 150 PSI.

10 GAUGE LOCATING WIRE TAPED TO THE PIPE EVERY 10 FEET SHALL BE REQUIRED ON ALL NON-METALLIC BURIED WATER MAINS AND WATER SERVICES THAT ARE NOT INSTALLED 90° TO THE WATER MAIN OR SERVICE.

INSTALL VINYL TAPE MARKED "WATER BELOW" 18" DIRECTLY ABOVE ALL BURIED WATER PIPES.

ALL PIPE SHALL BE INSTALLED PER AWWA MANUAL OF PRACTICE M23, ISPWC REQUIREMENTS.

ALL PIPES SHALL BE SHIPPED WITH BOTH ENDS OF PIPE PLUGGED, COVERED OR EACH UNIT PROPERLY COVERED WITH TARPS.

ALL PIPES, WHEN DELIVERED, WILL BE INSPECTED FOR DAMAGE, DUST, DEBRIS OR OTHER LOOSE ITEMS INSIDE THE PIPE. IF MATERIAL IS FOUND INSIDE THE PIPE, THE PIPE SHALL BE SWABBED TO REMOVE THE MATERIAL. FOLLOWING INSPECTION AND/OR CLEANING, EACH PIPE END SHALL BE COVERED WITH A BAG OR PLUG TO KEEP AIRBORNE OR WATER BORNE DEBRIS FROM ENTERING THE INSIDE THE PIPE.

THE PIPE END COVERINGS SHALL NOT BE REMOVED UNTIL THE PIPE IS IN THE TRENCH AND READY TO BE JOINED WITH ANOTHER PIPE OR FITTING. THE PIPE SHALL NOT BE LEFT OPEN IN THE TRENCH FOR ANY REASON EXCEPT TO PREPARE IT FOR JOINING.

3. FITTINGS
FITTINGS SHALL BE DUCTILE IRON. ALL FITTINGS SHALL BE RESTRAINED, INCLUDING THE APPROPRIATE RESTRAINED LENGTH OF PIPE.

POLYVINYL CHLORIDE (PVC) FITTINGS ARE NOT ALLOWED

4. TRENCH EXCAVATION AND BACKFILL:
TRENCH EXCAVATION AND BACKFILL SHALL CONFORM TO THE STANDARD DETAIL INCLUDED HEREIN. THE CONTRACTOR SHALL HAUL AWAY AND DISPOSE OF ANY MATERIAL THAT IS UNFIT FOR BACKFILL TO AN APPROVED WASTE SITE. DISPOSAL OF EXCESS AND UNFIT BACKFILL SHALL BE CONSIDERED INCIDENTAL TO PAYMENT FOR EXCAVATION AND BACKFILL.

MINIMUM COVER OVER PIPES SHALL BE FIFTY-FOUR INCHES (54").

5. BEDDING:
BEDDING AS SPECIFIED IN THE N.K.W.D. STANDARD WATER SPECIFICATIONS. PIPE SHALL BE BEDDED PROVIDING 4" BELOW THE PIPE AND 6" OF COVER OVER THE TOP OF THE PIPE. COMPACTION WITHIN THE PIPE ZONE SHALL BE 95 % OF STANDARD PROCTOR DENSITY.

6. COMPACTION OF BACKFILL:
IN ROADWAY (ASPHALT OR GRAVEL SURFACE):
BACKFILL AS SPECIFIED IN THE N.K.W.D. STANDARD WATER SPECIFICATIONS, THE CONTRACTOR SHALL USE MECHANICAL COMPACTION FOR BACKFILL. BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS ESTABLISHED BY A STANDARD PROCTOR. THE CONTRACTOR SHALL GUARANTEE THE BACKFILL FREE FROM ANY SETTLEMENT FOR ONE (1) YEAR FOLLOWING THE FINAL ACCEPTANCE OF THE WORK BY THE DISTRICT. ANY DAMAGES FROM SETTLEMENT SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT HIS EXPENSE. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS ITEM.

CROSS COUNTRY (DIRT OR GRASS SURFACE):
NATIVE BACKFILL MATERIAL AS SPECIFIED IN THE N.K.W.D. STANDARD WATER SPECIFICATIONS SHALL BE USED IT IS DETERMINED TO BE UNSUITABLE BY THE ENGINEER, COMPACTION IS AS SPECIFIED IN THE N.K.W.D. STANDARD WATER SPECIFICATIONS, SHALL BE COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY AS ESTABLISHED BY A STANDARD PROCTOR.

WATER SYSTEM NOTES:

7. VALVES AND HYDRANTS:
VALVES SHALL BE AWWA APPROVED RESILIENT SEAT GATE VALVES. ALL VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX, TWO-PIECE, SLIP TYPE, FOR A 5' WRENCH, MARKED "WATER".

FIRE HYDRANTS AND RESILIENT SEAT GATE VALVES SHALL BE WATEROUS, MUELLER OR PRE-APPROVED EQUAL.

THE 4.5 INCH STEAMER PORT ON ALL NEW FIRE HYDRANTS SHALL BE EQUIPPED WITH A STORZ FITTING.

ONE SPRING LOADED, BOLT-ON SIX-FOOT TALL FIRE HYDRANT MARKER, SHALL BE INSTALLED ON THE BASE OF EACH FIRE HYDRANT.

FIRE HYDRANT LINES SHALL BE 6" PVC C-900 AND SHALL HAVE FITTING RESTRAINTS SUCH AS MEGA-LUGS OR GRIP RING TYPE FITTINGS. WATEROUS HYDRANT AND VALVE AVAILABLE WITH ALPHA RESTRAINT JOINTS. THRUST BLOCKS SHALL ALSO BE PROVIDED FOR RESTRAINT.

8. THRUST BLOCKS / RESTRAINTS:
ALL HORIZONTAL OR VERTICAL BENDS, TEE, CROSS, REDUCER, CAP, PLUG, VALVE, AND FIRE HYDRANTS SHALL HAVE THRUST RESTRAINTS AS SPECIFIED IN THE N.K.W.D. STANDARD WATER SPECIFICATIONS. CONCRETE THRUST BLOCKING OR MECHANICAL THRUST RESTRAINTS SHALL BE SIZED BY ENGINEER BASED ON WORKING PRESSURE AND SOIL CONDITION.

MECHANICAL THRUST RESTRAINTS:

CONTRACTOR MAY ELECT TO UTILIZE MECHANICAL THRUST RESTRAINTS IN PLACE OF CONCRETE THRUST BLOCKS. [MECHANICAL THRUST RESTRAINTS ARE RECOMMENDED]

CONTRACTOR SHALL RESTRAIN ADDITIONAL PIPE JOINTS TO ACHIEVE ADEQUATE RESTRAINT, AS CALCULATED BY THE ENGINEER.

CONCRETE THRUST RESTRAINTS MAY BE REQUIRED IN ADDITION TO MECHANICAL THRUST RESTRAINTS AT LOCATIONS IDENTIFIED IN THE FIELD BY THE ENGINEER.

CONCRETE THRUST BLOCKS:

CONCRETE THRUST BLOCK SHALL BE CAST IN PLACE. PRECAST THRUST BLOCKS ARE NOT TO BE USED, EXCEPT FOR TEMPORARY INSTALLATIONS AND ONLY WHEN PRIOR WRITTEN APPROVAL IS OBTAINED FROM DISTRICT ENGINEER.

PLACE CONCRETE TO PERMIT FULL ACCESS TO PIPE AND PIPE ACCESSORIES. WRAP FITTINGS WITH 6 MIL POLYETHYLENE PRIOR TO PLACING CONCRETE. PLACE CONCRETE SO THAT NO CONCRETE TOUCHES THE NUTS AND BOLTS OF THE FITTING OR VALVE, AND THE NUTS AND BOLTS CAN BE REMOVED AND PLACED WITHOUT REMOVING ANY CONCRETE SO THAT THE FITTING OR VALVE MAY BE REMOVED AT A LATER DATE WITHOUT DAMAGE TO THE PIPELINE, VALVE, OR FITTING.

PROVIDE BEARING AREA AGAINST UNDISTURBED EARTH.

THRUST BLOCKS SHALL BE SIZED TO PROVIDE NO LESS THAN THE MINIMUM VOLUME OR BEARING AREA AS DETAILED IN DRAWINGS.

9. SERVICES:
WATER SERVICE PIPE MUST BE PRESSURE CLASS 250, DR7 IRON PIPE SIZE POLYETHYLENE (PE) PRESSURE PIPE OR COPPER TUBE SIZE MUNICIPEX FOR WATER SERVICE PER AWWA C-901 WITH STANDARD CODE DESIGNATION PE 4710 PER ASTM D 3350. MINIMUM SIZE SHALL BE 1". SERVICE SHALL HAVE A RADIO READ WATER METER AS APPROVED BY THE DISTRICT.

WATER SYSTEM NOTES:

10. SEPARATION OF WATER AND NON-POTABLE LINES:

SEPARATION DISTANCES SHALL CONFORM TO THE CURRENT IDAPA 58.01.08 RULES FOR PUBLIC DRINKING WATER SYSTEMS.

PARALLEL INSTALLATION: FOR THE SEPARATION OF WATER MAINS AND SEWER LINES/APPURTENANCES

CONDITION 1: A HORIZONTAL SEPARATION OF GREATER THAN 10 FEET SHALL BE MAINTAINED BETWEEN OUTSIDE WALLS OF THE WATER LINES AND ANY NON-POTABLE WATER LINE.

CONDITION 2: A HORIZONTAL SEPARATION OF TEN TO SIX FEET SEPARATION SHALL REQUIRE SEPARATE TRENCHES WITH POTABLE MAIN ABOVE NON-POTABLE MAIN AND NON-POTABLE MAIN TO BE CONSTRUCTION WITH POTABLE WATER CLASS PIPE.

CONDITION 3: A HORIZONTAL SEPARATION OF LESS THAN 6 FEET SHALL REQUIRE THE DESIGN ENGINEER TO SUBMIT DATA TO DEQ FOR REVIEW AND APPROVAL SHOWING THAT THIS INSTALLATION WILL PROTECT PUBLIC HEATH AND THE ENVIRONMENT AND NON-POTABLE MAIN TO BE CONSTRUCTED OF POTABLE WATER CLASS PIPE.

POTABLE AND NON-POTABLE MAINS SHALL NOT BE INSTALLED IN THE SAME TRENCH

SEPARATION OF WATER MAINS FROM PRESSURIZED SEWER LINES REQUIRES CONDITION 1 SEPARATION. CONDITION 2 AND 3 ARE NOT ALLOWED.

CROSSINGS: THE SEPARATION OF WATER MAINS AND SEWER LINES/APPURTENANCES

CONDITION 1: THE BOTTOM OF THE POTABLE WATER MAIN SHALL BE A MINIMUM OF 18 INCHES ABOVE THE NON-POTABLE MAIN. THE NON-POTABLE MAIN JOINT SHALL BE AS FAR AS POSSIBLE FROM THE POTABLE MAIN.

CONDITION 2: IF THERE IS LESS THAN 18 INCHES OF VERTICAL SEPARATION, THE NON-POTABLE MAIN SHALL BE CONSTRUCTION WITH POTABLE WATER CLASS PIPE AND NON-POTABLE MAIN JOINT SHALL BE AS FAR AS POSSIBLE FROM POTABLE WATER MAIN, OR SLEEVE EITHER POTABLE OR NON-POTABLE PIPE WITH POTABLE WATER CLASS PIPE FOR TEN FEET EITHER SIDE OF CROSSING.

SEPARATION OF WATER MAINS FROM PRESSURIZED SEWER LINES REQUIRES CONDITION 1 SEPARATION. CONDITION 2 IS NOT ALLOWED.

11. TESTING AND DISINFECTION:
UPON COMPLETION OF THE INSTALLATION OF WATER LINES, THE CONTRACTOR WILL BE REQUIRED TO PRESSURE TEST ALL WATER LINES AS SPECIFIED IN THE N.K.W.D. STANDARD WATER SPECIFICATIONS, FOR 2 HOURS (MINIMUM).
TEST PRESSURE SHALL BE [INSERT TEST PRESSURE]. DISINFECTION OF THE WATER SYSTEM SHALL BE PERFORMED IN STRICT ACCORDANCE WITH AWWA C-651 STANDARDS. MINIMUM TEST PRESSURE SHALL BE 150 PSI, BUT IN NO CASE SHALL THE TEST PRESSURE EXCEED THE PIPE PRESSURE RATING. NO TIE-INS TO EXISTING SYSTEM SHALL BE ALLOWED UNTIL PIPE IS TESTED AND APPROVED.

COPYRIGHT 2022
Welch-Comer & Associates, Inc.
This document, and ideas and designs incorporated herein, as an instrument of professional service, is the property of Welch-Comer & Associates, Inc., and is not to be used in whole or in part for any other project without the written authorization of Welch-Comer & Associates, Inc.

WELCH-COMER
ENGINEERS | SURVEYORS
www.welchcomer.com 208-664-9382
330 E. Lakeside Ave, Suite 101 (toll free) 877-815-5672
Coeur d'Alene, ID 83814 (fax) 208-664-5946

NO.	DATE	REVISION DESCRIPTION	BY

NORTH KOOTENAI WATER DISTRICT
STANDARD WATER SPECIFICATIONS

PROJ NO:
DESIGNED BY:
DRAWN BY: JSF
CHECKED BY:
DWG NAME: NKWD-STD-SPECS.DWG
DATE: 06-24-2024
SHEET NO:
A5

N:\CAD Files\WORKING\NKWD STANDARDS\NKWD STD SPECS.dwg, 6/25/2024 9:50:00 PM, jsf, 1:1