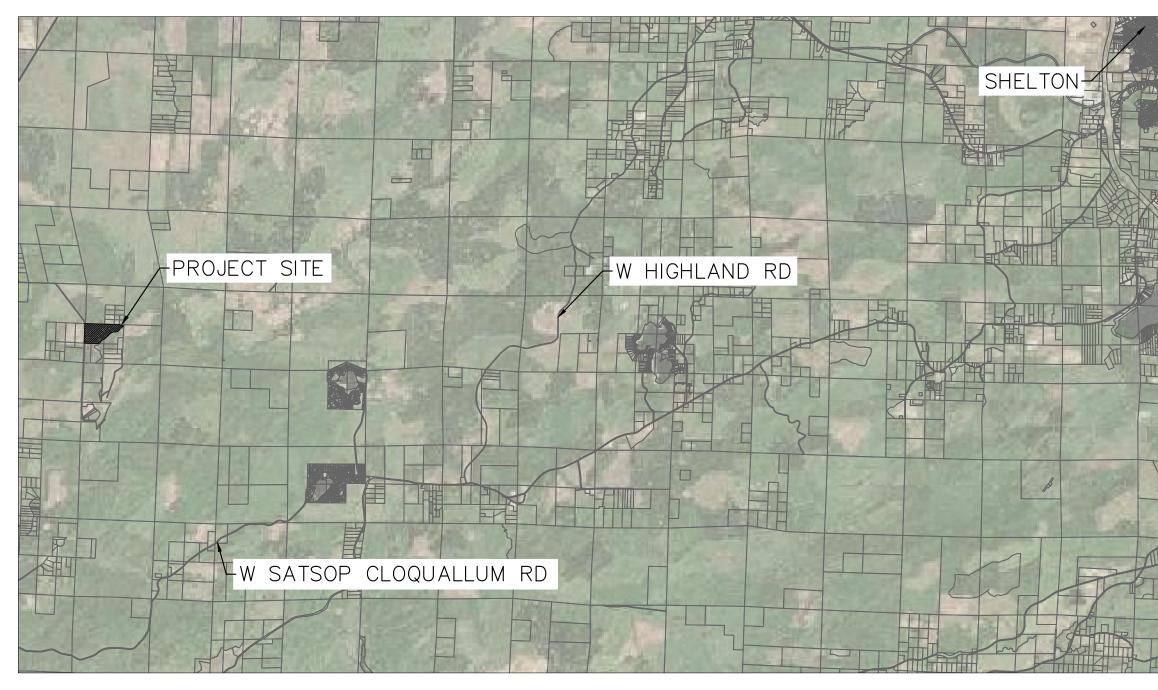


MASON COUNTY PUBLIC UTILITY DISTRICT NO. 1 RIPPLEWOOD WATER MAIN REPLACEMENT

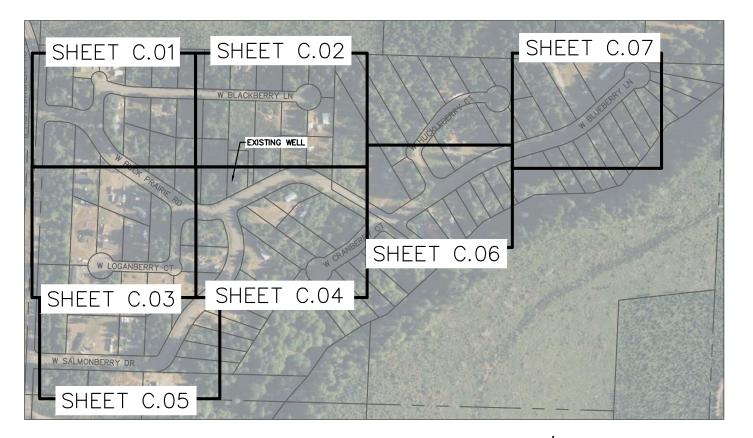
MAY 2023

SHEET LIST TABLE		
NO.	SHEET	SHEET TITLE
GENERAL		
1	G.01	COVER SHEET
2	G.02	GENERAL NOTES, LEGEND AND ABBREVIATIONS
3	G.03	EROSION CONTROL NOTES
CIVIL		
4	C.01	WATER MAIN PLANS — W BUCK PRAIRE RD & W BLACKBERRY LN
5	C.02	WATER MAIN PLANS - W BLACKBERRY LN
6	C.03	WATER MAIN PLANS — W BUCK PRAIRIE RD & W LOGANBERRY CT
7	C.04	WATER MAIN PLANS — W BUCK PRAIRIE RD & W SALMONBERRY DR
8	C.05	WATER MAIN PLANS — W SALMONBERRY DR
9	C.06	WATER MAIN PLANS — W BLUEBERRY LN & W HUCKLEBERRY CT
10	C.07	WATER MAIN PLANS - W BLUEBERRY LN
DETAILS		
11	D.01	WATER DETAILS
12	D.02	WATER DETAILS













PUD OFFICIALS:

MIKE SHEETZ DISTRICT 1 COMMISSIONER

RON GOLD
DISTRICT 2 COMMISSIONER

JACK JANDA DISTRICT 3 COMMISSIONER

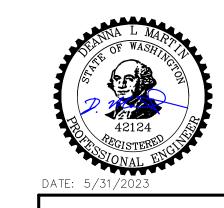
PROJECT DATA:

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G.01 1 OF 12



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GENERAL NOTES:

- 1. RIPPLEWOOD WATER MAIN REPLACEMENT PROJECT INVOLVES INSTALLATION OF A WATER MAIN AND APPURTENANCES LOCATED IN THE RIPPLEWOOD COMMUNITY. CONTRACTOR WILL PROVIDE ALL REQUIRED TOOLS, MATERIALS, EQUIPMENT, PERSONNEL AND TESTING REQUIRED FOR PROJECT COMPLETION.
- 2. ALL WORK SHALL BE IN ACCORDANCE WITH MASON COUNTY PUD NO.1 "MINIMUM DESIGN STANDARDS & STANDARD CONSTRUCTION MATERIALS", MASON COUNTY PUBLIC WORKS STANDARDS, WSDOT STANDARD SPECIFICATIONS, AND PROJECT PLANS. FACILITIES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S RECOMMENDATIONS.
- 3. PIPELINE MATERIAL AND INSTALLATION ARE TO CONFORM TO THE LATEST REVISION OF THE FOLLOWINGS STANDARDS:
- 3.A. CEMENT MORTAR LINING (AWWA C104/A21.4)
- 3.B. DUCTILE IRON PIPE JOINTS (AWWA C1047/A21.11)
- 3.C. DISINFECTIONS (AWWA C651)
 3.D. DUCTILE IRON PIPE INSTALLATION (AWWA C600)
- 3.E. POLYETHYLENE (PE) PRESSURE PIPE AND FITTINGS, 4". THROUGH 65". (AWWA C906-15) OWNER SHALL FURNISH TO THE MASON COUNTY PUD NO.1 ENGINEERING REPRESENTATIVE COPIES OF THE CERTIFICATIONS THAT ALL MATERIALS MEET THE AWWA SPECIFICATIONS.
- 4. TEMPORARY EROSION/WATER POLLUTION MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTHWORK OR CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH MASON COUNTY STANDARDS, WASHINGTON DOE 2005 SWMMWW, AND PROJECT PLANS. SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING DRY CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE. SEE SHEET G.03 FOR FURTHER INFORMATION ON EROSION AND POLLUTION PREVENTION.
- 5. DISTURBED AND EXPOSED AREAS FROM INSTALLATION AND INFRASTRUCTURE AND UTILITIES SHALL BE RESTORED AND STABILIZED. CONTRACTOR TO INSTALL ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PROTECT DISTURBED AND EXPOSED SOILS. SEE SHEET G.03 FOR FURTHER INFORMATION ON EROSION AND POLLUTION PREVENTION.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL OTHER PERMITS, RIGHT-OF-WAYS, EASEMENTS, AND OTHER REQUIREMENTS BY THE COUNTY OR OTHER GOVERNING AUTHORITY OR AGENCY AS MAY BE APPLICABLE.
- 7. CALL UNDERGROUND LOCATE LINE A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS. UTILITIES SHOWN ON CONSTRUCTION PLANS ARE NOT EXACT IN LOCATION. CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND FOR ANY DAMAGE DONE TO THEM DURING CONSTRUCTION ACTIVITIES.
- 8. ALL SOIL DISTURBING ACTIVITY MUST ADHERE TO THE REQUIREMENTS OF WSDOT STANDARD SPECIFICATIONS AND WASHINGTON DOE STANDARDS AND REQUIREMENTS.
- 9. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH MASON COUNTY PUD NO.1 PRIOR TO THE START OF CONSTRUCTION.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING AND IMPLEMENTATION OF ANY TRAFFIC CONTROL REQUIRED BY MASON COUNTY.
- 11. ALL LINEWORK AND EXISTING CONDITIONS SHOWN ON PLANS ARE NOT EXACT IN LOCATION AND SHOULD BE USED FOR GENERAL INTERPRETATION ONLY. THE CONTRACTOR SHALL NOTIFY THE OWNER IF DISCREPANCIES ARE FOUND IN THE FIELD THAT CONFLICT WITH CONSTRUCTION PLANS.
- 12. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN THE EVENT OR DISCOVERY OF UNSUITABLE SOIL, HIGH GROUND WATER CONDITIONS OR DISCREPANCIES FROM THE PLANS.
- 13. CONSTRUCTION OF WATER MAINS SHALL CONFORM TO REQUIREMENTS LISTED IN WSDOT STANDARD SPECIFICATIONS. CURRENT EDITION.
- 14. MAINTAIN A MINIMUM 1' VERTICAL SEPARATION AND A 30" HORIZONTAL SEPARATION BETWEEN THE WATERLINE AND ALL OTHER UTILITIES EXCEPT SANITARY SEWER, WHICH IS TO BE A 10' HORIZONTAL SEPARATION. WATERLINE TRENCH IS NOT TO BE SHARED WITH OTHER UTILITIES UNLESS OTHERWISE SHOWN ON PLANS.
- 15. NO EXCAVATION TRENCH SHALL BE LEFT OPEN AND UNCOVERED OVERNIGHT, MAX LENGTH OPEN DURING CONSTRUCTION SHALL BE 150'.
- 16. THE WATERLINE SHALL BE FITTED WITH A WATERTIGHT PLUG AT ANY ANYTIME WORK IS DELAYED OR STOPPED AND OVERNIGHT. IF NEWLY INSTALLED WATERLINE IS CONTAMINATED WITH GROUND WATER, THE ENTIRE LENGTH OF PIPE AFFECTED SHALL BE THOROUGHLY CLEAN PRIOR TO INSTALLING ADDITIONAL PIPE.
- 17. CONTRACTOR WILL COORDINATE WITH MASON COUNTY PUD NO.1 ON TIE—IN CONNECTIONS AND FOR ANY OUTAGES REQUIRED MINIMUM. 72—HOUR NOTICE REQUIRED. MASON COUNTY PUD NO.1 WILL BE RESPONSIBLE FOR COMPLETING SERVICE CONNECTIONS REQUIRED. CONTRACTOR SHALL MAINTAIN DAILY COMMUNICATIONS WITH THE PUD IN ORDER TO COORDINATE WORK ITEMS AND TO MINIMIZE SERVICE OUTAGES TO RESIDENTS. CONTRACTOR SHALL NOT OPERATE PUB VALVES, ONLY A MASON PUD OPERATIVE MAY OPERATE CONTROL VALVES FOR THE SYSTEM. PUD SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY NECESSARY SHUTDOWN.
- 18. CONTRACT SHALL MAINTAIN A SAFE AND CLEAN WORKSITE THROUGHOUT CONSTRUCTION AND ALLOW ACCESS TO INSPECTORS OR OWNER REPRESENTATIVES.
- 19. THE WATER LINE, INCLUDING THE CORP. STOPS TO THE WATER SERVICES, SHALL BE PRESSURIZED TO 150 PSI WITH NO GREATER THAN A 5 PSI PRESSURE DROP OVER A 15-MINUTE PERIOD. THE MASON PUD PUBLIC WORKS INSPECTOR, ENGINEER OR DESIGNATED REPRESENTATIVE SHALL WITNESS THIS TEST. CONTRACTOR TO PROVIDE A BACTERIOLOGICAL SAMPLE REPORT ALONG WITH PRESSURE TESTING RESULTS.
- 20. PRIOR TO TESTING, THE CONTRACTOR SHALL SUBMIT A FLUSHING PLAN TO THE PUD PER WSDOT STANDARD SPECIFICATIONS, CURRENT EDITION, THAT DETAILS HOW THE SUPERCHLORINATED WATER WILL BE RELEASED FROM THE CONSTRUCTED WATER MAIN WHILE PROTECTING EROSION AND WATER QUALITY. TESTING ACTIVITIES SHALL NOT COMMENCE UNTIL THE PLAN IS REVIEWED AND APPROVED BY THE PUD. DECHLORINIZATION WILL BE REQUIRED OF ALL DISINFECTION WATER FLUSHED FROM WATER LINES.
- 21. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY WATER SAMPLE BOTTLE(S) FROM THE MASON COUNTY HEALTH DEPARTMENT PRIOR TO SCHEDULING BACTERIOLOGICAL SAMPLING. THE LENGTH OF PIPE WILL DETERMINE THE NUMBER OF SAMPLES TAKEN.
- 22. THE CONTRACTOR SHALL HAVE A COPY OF THESE PLANS, ANY ADDENDA, CHANGE ORDERS, AND THE CONTRACT SPECIFICATIONS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- 23. THE CONTRACTOR SHALL MAINTAIN A CLEAN LEGIBLE SET OF RECORD DRAWINGS AND PROVIDE A SET TO THE OWNER PRIOR TO DEMOBILIZATION OF THE SITE.

ABBREVIATIONS:

WA AMERICAN WATER WORKS ASSOCIATION

BMP BEST MANAGEMENT PRACTICE

CESCL CERTIFIED EROSION AND SEDIMENT CONTROL LEAD

CI CAST IRON

CMP CORRUGATED METAL PIPE

CORRUGATED PLASTIC PIPE

CT COURT

DUCTILE IRON

DIA. DIAMETER

DR DRIVE

DOE

EG

DEPARTMENT OF ECOLOGY

DVCA DOUBLE CHECK VALVE ASSEMBLY

FL FLANGE

GALV. GALVANIZED

PE HIGH DENSITY POLYETHYLENE

IRON PIPE THREAD

EXISTING GRADE

LN LANE

IN MINIMUM

MJ MECHANICAL JOINT

MAX MAXIMUM

NGPA NATIVE GROWTH PROTECTION AREA

O. NUMBER

PE PLAIN END

PRV PRESSURE REDUCING VALVE

PSI POUND FORCE PER SQUARE INCH

PUD PUBLIC UTILITY DISTRICT

PVC POLYVINYL CHLORIDE

R RADIUS

SDR STANDARD DIMENSION RATIO

TYP TYPICAL

RD ROAD

SWMMWW STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON

SWPPP STORMWATER POLLUTION PREVENTION PLAN

TESC TEMPORARY EROSION AND SEDIMENT CONTROL

WEST, WIDTH

W/ WITH

WM WATER MAIN

WSDOT WASHINGTON DEPARTMENT OF TRANSPORTATION

LEGEND:

PROPERTY LINE

_______EXISTING PAVED ROADWAY LINE
__________EXISTING GRAVEL ROADWAY LINE

PROPOSED STRAW WATTLE

PROPOSED SILT FENCE

— OHE — OHE — EXISTING OVERHEAD ELECTRICAL WIRE

PROPOSED ELECTROFUSION FITTINGS

EXISTING WATER FITTINGS

PAVED TRENCH RESTORATION

ROCK GARDEN

PROPOSED BLOW OFF VALVE ASSEMBLY

PROPOSED GATE VALVE

PROPOSED AIR RELEASE VALVE

EXISTING BLOW OFF VALVE ASSEMBLY

GRAVEL TRENCH RESTORATION

PROPOSED WATER METER

EXISTING WATER METER

EXISTING ELECTRICAL POLE
EXISTING MAILBOX

EXISTING TREE

EXISTING ELECTRICAL BOX

PROPOSED CONSTRUCTION SEQUENCE:

- 1. SCHEDULE AND ATTEND PRE-CONSTRUCTION MEETING WITH MASON COUNTY PUD NO.1.
- 2. INSTALL TESC PROTECTION AS WARRANTED.
- 3. CONSTRUCT SURFACE WATER CONTROLS IF NEEDED SIMULTANEOUSLY WITH CLEARING AND GRADING FOR WATER MAIN CONSTRUCTION.
- 4. INSTALL WATER MAIN AND NEW WATER SERVICES AS SHOWN ON C.01 THROUGH C.07 TO ANGLE STOP AT PROPOSED CONNECTION.
- 5. FILL, TEST, FLUSH AND SAMPLE NEW WATER SYSTEM PER TESTING CONNECTION SHOWN AS PART OF TESTING DETAIL 6/D.02.
- 6. UPON SATISFACTORY BACTERIOLOGICAL AND PRESSURE TEST RESULTS, COMPLETE WATER MAIN CONNECTION AT WELL LOCATION PER CONTINUAL SERVICE DETAIL 6/D.02. DO NOT DISCONNECT EXISTING WATER SYSTEM.
- 7. MASON PUD TO SWAP ALL CUSTOMER METERS AND SERVICES TO NEW MAIN. CONTRACTOR TO RESTORE ALL DISTURBED SURFACES ASSOCIATED WITH SERVICE SWAPS.
- 8. ONCE ALL NEW METERS ARE FUNCTIONAL, DECOMMISSION AND ABANDON EXISTING MAIN AND SERVICES. REPLACE PIPE TO WELL HOUSE PER FINAL CONNECTION DETAIL 7/D.02. DRAIN EXISTING MAIN AND DISPOSE OF WATER APPROPRIATELY.
- 9. COMPLETE ROADWAY AND PROPERTY RESTORATION INCLUDING PERMANENT TRENCH PATCH AND APPLICABLE ROADSIDE RESTORATION.
- 10. ATTEND FINAL INSPECTION WITH MASON PUD STAFF AND COMPLETE ANY/ALL PUNCHLIST ITEMS.
- 11. PROVIDE MASON PUD WITH "AS BUILT" MAP WITH ANY/ALL CHANGES MADE IN THE FIELD.
- 12. UPON COMPLETION OF WORK, REMOVE TESC BMPS AS APPROPRIATE AND MASON PUD REMOVE ABANDONED SYSTEM HARDWARE.

No.





MASON PUBLIC UTILITY
DISTRICT NO. 1
RIPPLEWOOD WATER
MAIN REPLACEMENT

GENERAL NOTES, LEGEND AND ABBREVIATIONS

G.02

TESC NOTES:

- 1. ALL GRADING SHALL COMPLY WITH PERMIT CONDITIONS, CURRENT MASON COUNTY PUD AND MASON COUNTY CODES AND DEVELOPMENT STANDARDS AND STATE (WSDOT) STANDARD SPECIFICATIONS, CURRENT EDITION.
- 2. IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY THE CONTRACTOR'S ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES THAT MAY BE NEEDED TO PROTECT THE NATURAL FEATURES OR ADJACENT PROPERTIES.
- 3. THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR SIT WORK. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND WITHIN 30 DAYS OF FINAL SITE STABILIZATION OR UNTIL THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- 4. ALL PERSONS ENGAGING IN CONSTRUCTION ACTIVITIES SHALL PREVENT OR MINIMIZE EROSION AND SEDIMENTATION ON-SITE, AND SHALL PROTECT PROPERTIES AND WATER COURSES DOWNSTREAM FROM THE SITE.
- 5. NON COMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND/OR CLEARING LIMITS MAY RESULT IN REVOCATION OF PROJECT PERMITS, REVOCATION OF PLAN APPROVAL, AND BOND FORECLOSURES.
- 6. PRIOR TO INITIATION OF SITE WORK, HIGHLY VISIBLE MARKERS SUCH AS ORANGE BARRIER FENCING OR FLAGGING SHALL BE USED TO IDENTIFY CLEARING LIMITS AND EXISTING NGPA AREAS.
- 7. ALL STREETS SHALL BE KEPT CLEAR OF DIRT AND DEBRIS DURING EXCAVATION AND FILL OPERATIONS. SWEEP STREETS IMMEDIATELY WHEN DIRT HAS BEEN TRACKED ONTO PAVED SURFACES.
- 8. STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED WITHIN 24 HOURS OF FORMATION TO PREVENT SOIL LOSS AND EROSION.
- 9. FROM MAY 1 TO SEPTEMBER 30. NO SOIL SHALL REMAIN EXPOSED FOR MORE THAN 7 DAYS. DENUDED AREAS SHALL BE COVERED BY MULCH, SOD, PLASTIC OR EQUIVALENT BMP LISTED IN THE WASHINGTON STATE DOE SWMMWW. FROM OCTOBER 1 TO APRIL 30. NO SOIL SHALL REMAIN EXPOSED FOR MORE THAN 2 DAYS.
- 10. CONTRACTOR IS RESPONSIBLE FOR PREVENTING SURFACE WATER FROM RUNNING INTO EXCAVATIONS AND/OR PUMPING SURFACE RUN-OFF FROM EXCAVATION AND WORK AREA AS NEEDED.
- 11. DEWATERING IS NOT EXPECTED ON THIS PROJECT. SHOULD SMALL AMOUNTS OF LOCALIZED DEWATERING BE NECESSARY FOR TRENCH WORK, DISPOSE OF PUMPED TURBID WATER BY A DOE APPROVED METHOD.
- 12. FILTER FABRIC FENCE AND ALL OTHER TESC MEASURES SHALL BE CHECKED IMMEDIATELY AFTER EACH RAINFALL EVENT IN EXCESS OF 0.1" AND DAILY DURING PROLONGED RAIN EVENTS. MAINTENANCE AND REPAIR OF TESC FACILITIES AND STRUCTURES SHALL BE CONDUCTED IMMEDIATELY UPON RECOGNITION OF A PROBLEM OR DAMAGE.
- 13. SEDIMENT DEPOSITS SHALL BE REMOVED FROM ALL TEMPORARY DRAINAGE FACILITIES AND STRUCTURES UPON REACHING A DEPTH OF 6".
- 14. SUFFICIENT TESC BMP MATERIALS AND SUPPLIES TO PROTECT THE ENTIRE SITE SHALL BE STOCK PILED ON SITE.
- 15. NOTIFY PROJECT ENGINEER AND OWNER IMMEDIATELY IF CONTAMINANTS ARE ENCOUNTERED DURING CONSTRUCTION.
- 16. WHERE POSSIBLE MAINTAIN NATURAL VEGETATION FOR EROSION CONTROL.
- 17. CONSTRUCTION ACCEPTANCE WILL BE SUBJECT TO A WELL ESTABLISHED GROUND COVER THAT FULFILLS THE REQUIREMENT OF THE APPROVED CONSTRUCTION PLANS AND MASON COUNTY DRAINAGE STANDARDS.
- 18. IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION SHALL BE APPLIED. ALL DISTURBED AREAS NOT DESIGNATED FOR OTHER SURFACE RESTORATION SHALL BE SEEDED WITH A PERENNIAL GROUND COVER GRASS TO MINIMIZE EROSION.
- 19. ALL AREAS TO BE SEEDED SHALL BE CULTIVATED TO THE SATISFACTION OF THE INSPECTOR. THIS MAY BE ACCOMPLISHED BY DISCING, RAKING, HARROWING OR OTHER ACCEPTABLE MEANS. PERFORM ALL CULTIVATION OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE. IF REQUIRED INTERCEPTOR DIKE/SWALES, LEVEL SPREADERS, AND SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO SEEDING.
- 20. TRANSPORT ALL UNUSED OR UNSUITABLE EXCAVATED MATERIALS OFF SITE TO APPROVED STORAGE LOCATION, EXCEPT AS ALLOWED IN THE SPECIFICATIONS. LIMIT TRUCK ACTIVITY TO PAVED AND GRAVELED SURFACES ONLY. MAINTAIN TRUCK ACCESS AREAS WHERE CLEAR OR DIRT AND SEDIMENT DURING PERIODS OF TRUCK ACTIVITY.
- 21. ADDITIONAL REQUIREMENTS FOR UTILITIES. THE INSTALLATION OF UNDERGROUND UTILITY LINES SHALL BE SUBJECT TO THE FOLLOWING ADDITIONAL REQUIREMENTS: 21.1. NO MORE THAN 150' OF TRENCH MAY REMAIN OPEN AT A TIME: 21.2. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCHES,

UNLESS INCONSISTENT WITH SAFETY OR SITE CONSTRAINTS

WASHINGTON DOE SWPPP ELEMENTS:

THE FOLLOWING IS INTENDED TO SERVE AS A GUIDE OF THE BMPS EXPECTED TO BE USED ON THIS PROJECT. SHOULD CONDITIONS DIFFER FROM PLANS, FURTHER POLLUTION PROTECTION BE WARRANTED, A RECOMMENDED BMP IS UNSUITABLE AND NOT FUNCTIONING AS INTENDED, OR A DIFFERING SUITABLE BMP IS PREFERRED; THE ALTERNATIVE BMP SHALL BE IMPLEMENTED IMMEDIATELY AT DIRECTION OF THE CESCL.

ELEMENT 1 — PRESERVE VEGETATION/MARK CLEARING LIMITS: PRESERVING NATURAL VEGETATION BMP C233 SILT FENCE

ELEMENT 2 - ESTABLISH CONSTRUCTION ACCESS BMP C107 CONSTRUCTION ROAD/PARKING AREA STABILIZATION

ELEMENT 3 — CONTROL FLOW RATES BMP UNEXPECTED TO BE WARRANTED FOR THE PROPOSED WORK, IF WORK CONDITIONS CHANGE IMPLEMENT APPROPRIATE BMPS.

ELEMENT 4 - INSTALL SEDIMENT CONTROLS BMP C233 SILT FENCE BMP C235 WATTLES

ELEMENT 5 - STABILIZE SOILS BMP UNEXPECTED TO BE WARRANTED FOR THE PROPOSED WORK, IF WORK CONDITIONS CHANGE IMPLEMENT APPROPRIATE BMPS.

ELEMENT 6 - PROTECT SLOPFS BMP UNEXPECTED TO BE WARRANTED FOR THE PROPOSED WORK. IF WORK CONDITIONS CHANGE IMPLEMENT APPROPRIATE BMPS.

ELEMENT 7 - PROTECT DRAIN INLETS BMP UNEXPECTED TO BE WARRANTED FOR THE PROPOSED WORK, IF WORK CONDITIONS CHANGE IMPLEMENT APPROPRIATE BMPS.

ELEMENT 8 - STABILIZE CHANNELS AND OUTLETS BMP UNEXPECTED TO BE WARRANTED FOR THE PROPOSED WORK, IF WORK CONDITIONS CHANGE IMPLEMENT APPROPRIATE BMPS.

ELEMENT 9 - CONTROL POLLUTANTS BMP C152 SAWCUTTING AND SURFACE POLLUTION PREVENTION

ELEMENT 10 - CONTROL DEWATERING USE OF A SEDIMENTATION BAG WITH OUTFALL TO A DITCH OR SWALE FOR SMALL VOLUMES OF LOCALIZED DEWATERING.

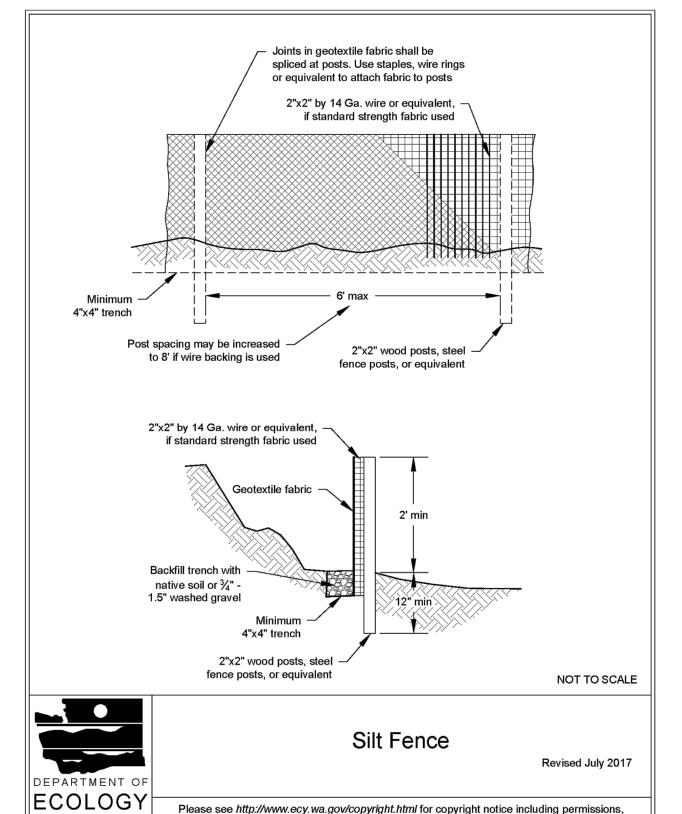
ELEMENT 11 - MAINTAIN BMPS BMP C150 MATERIALS ON HAND CERTIFIED EROSION AND SEDIMENT CONTROL LEAD

ELEMENT 12 - MANAGE THE PROJECT BMP C150 MATERIALS ON HAND CERTIFIED EROSION AND SEDIMENT CONTROL LEAD BMP C160

SCHEDULING

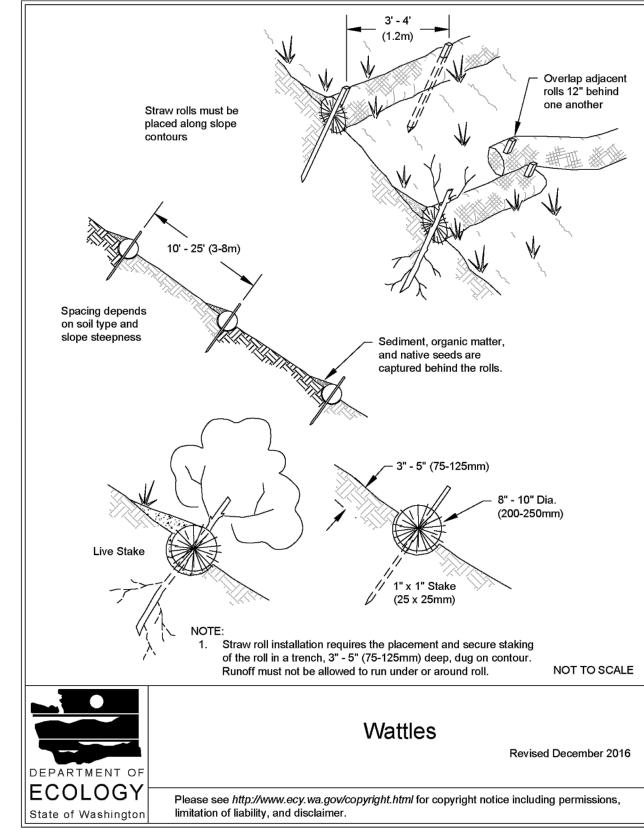
BMP C162

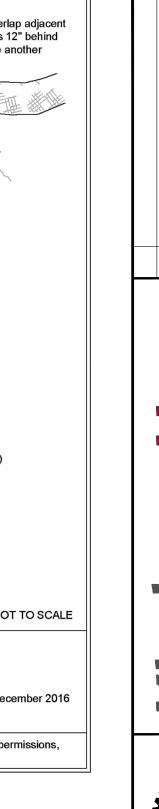
ELEMENT 13 - PROTECT LOW IMPACT DEVELOPMENT BMPS BMP UNEXPECTED TO BE WARRANTED FOR THE PROPOSED WORK, IF WORK CONDITIONS CHANGE IMPLEMENT APPROPRIATE BMPS.

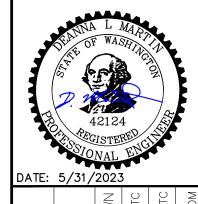


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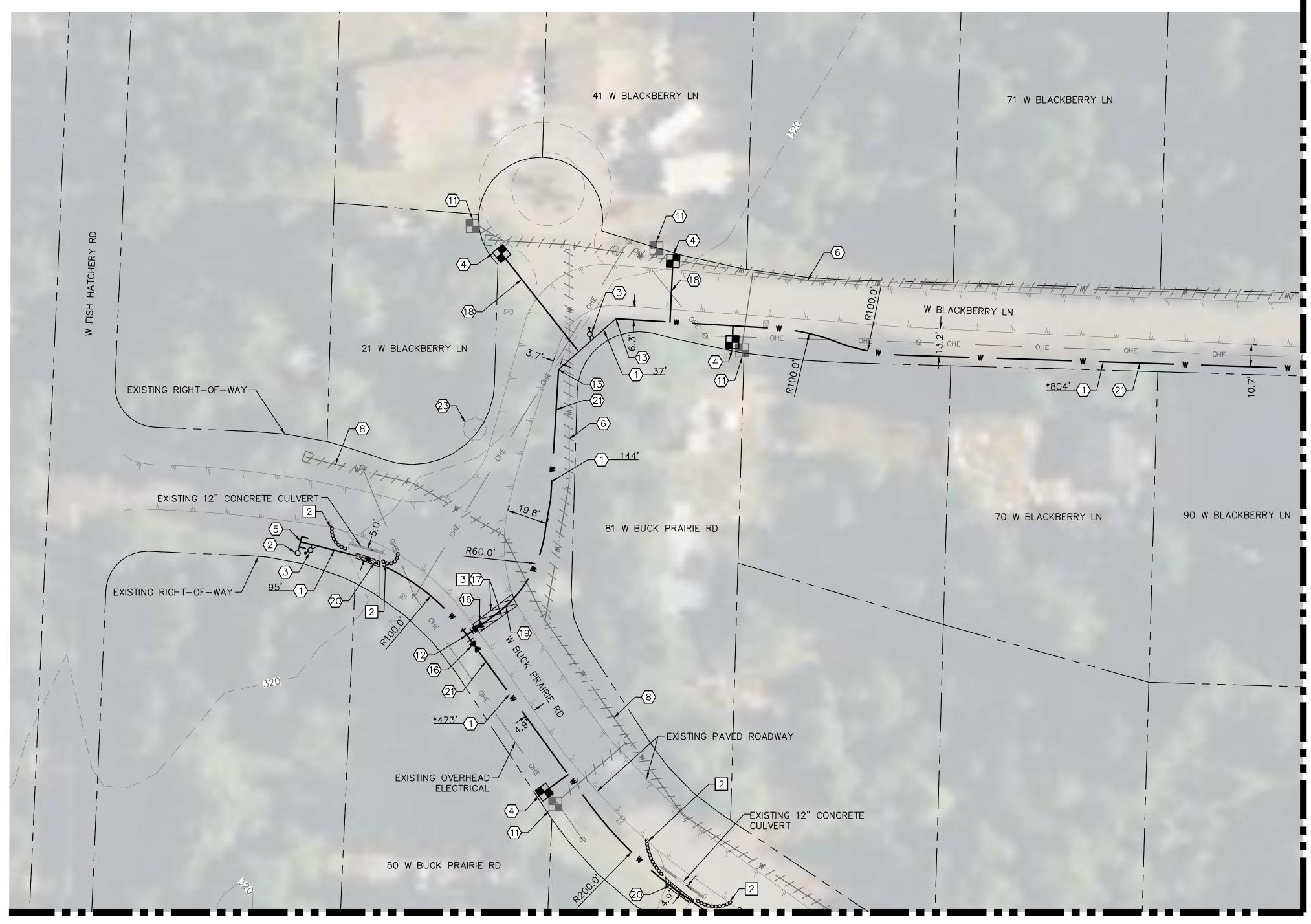




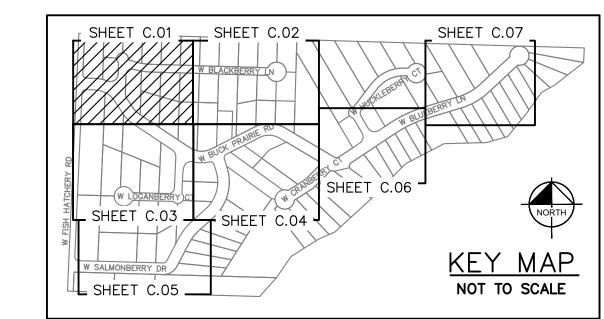
ER N PUBLIC TRICT NEWOOD V MASON DIS RIPPLE MAIN I

> NTR 2

G.03



MATCHLINE SEE SHEET C.03



WATER NOTES:

- 1) INSTALL 4" SDR11 HDPE BUTT FUSED WATER MAIN, TRENCH AND BEDDING PER DETAIL 5/D.01
- (2) INSTALL BLOW OFF VALVE ASSEMBLY AT END OF LINE PER DETAIL 1/D.01
- (3) INSTALL 1" AIR RELEASE VALVE ASSEMBLY AT HIGH POINT PER DETAIL 2/D.01
- (4) INSTALL METER BOX AND 1" WATER SERVICE PER DETAIL 8/D.02, 9/D.02 AND 10/D.02, MAXIMUM 5' DISTANCE FROM EXISTING METER
- 5 INSTALL 4" SDR11 HDPE END CAP, BUTT FUSED TO MAIN
- 6 EXISTING 2" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
- 8 EXISTING 3" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
- ONCE SERVICE SWAPPED AND EXISTING MAIN HAS BEEN ABANDONED, PUD TO SALVAGE HARDWARE, CONTRACTOR TO RESTORE DISTURBED SURFACES
- 12 INSTALL 4" SDR11 HDPE ELECTROFUSION TEE, PER MANUFACTUER DIRECTION
- (13) INSTALL 4" SDR11 HDPE ELECTROFUSION 45° BEND, PER MANUFACTUER DIRECTION
- 16 INSTALL:
 1-4" DUCTILE IRON GATE VALVE, FL, PER DETAIL 3/D.01
 2-4" SDR11 HDPE BUTT FUSION FLANGE ADAPTERS AND BACKING
- 17 FULL DEPTH SAWCUT
- 18 INSTALL 1" SERVICE USING HOLE HAWG OR OTHER DIRECTIONAL DRILLING WHEN IN PAVED AREA
- 19 RESTORE ASPHALT PER DETAIL 5/D.01
- RESTORE GRAVEL PER DETAIL 5/D.01
- 2 RESTORE ROADSIDE PER DETAIL 5/D.01
- PROTECT TREE ROOTS DURING EXCAVATION AND CONSTRUCTION, HAND DIG IF NECESSARY. SEVERING ANY ROOTS LARGER THAN 4" REQUIRES A LICENSED ARBORIST ONSITE DURING CUTTING AT CONTRACTOR EXPENSE.

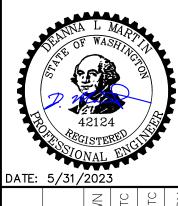
TESC NOTES:

- 2 INSTALL WATTLES PER DTL ON SHEET G.03
- 3 APPLY BMP C152 PER DOE MANUAL

NOTE

- CAUTION: ROADWAY DIGITIZED USING AERIAL IMAGERY, ACTUAL CONDITIONS MAY VARY.
- 2. CONTRACTOR SHALL SURVEY THE PROJECT PRIOR TO CONSTRUCTION TO VERIFY EXISTING RIGHT—OF—WAY, UTILITIES, AND ROADWAY LIMITS TO SATISFY FOR THEMSELVES THE WORK TO BE PERFORMED.
- 3. CONTRACTOR TO MAINTAIN A MINIMUM 36" DEPTH OF COVER FOR THE PROPOSED WATER MAIN THROUGHOUT SITE.
- 4. CONTRACTOR TO VERIFY AIR RELEASE VALVES ARE PLACED AT LOCAL WATER MAIN HIGH POINTS.
- 5. MINIMUM ALLOWABLE COLD BEND RADIUS FOR 4" SDR11 HDPE IS 50'
- 6. MAILBOXES IMPEDING CONSTRUCTION TO BE TEMPORARILY RELOCATED TO WITHIN 10' OF EXISTING POSITION AND REPLACED AT ORIGINAL POSITION ONCE WATER MAIN CONSTRUCTION IS COMPLETE.

*WATER MAIN SPANS MULTIPLE SHEETS, TOTAL BUTT FUSED LENGTH BETWEEN ELECTRO FUSION FITTINGS DISPLAYED 30, 2023 KIMLEY—HORN AND ASSOCIATE INC.

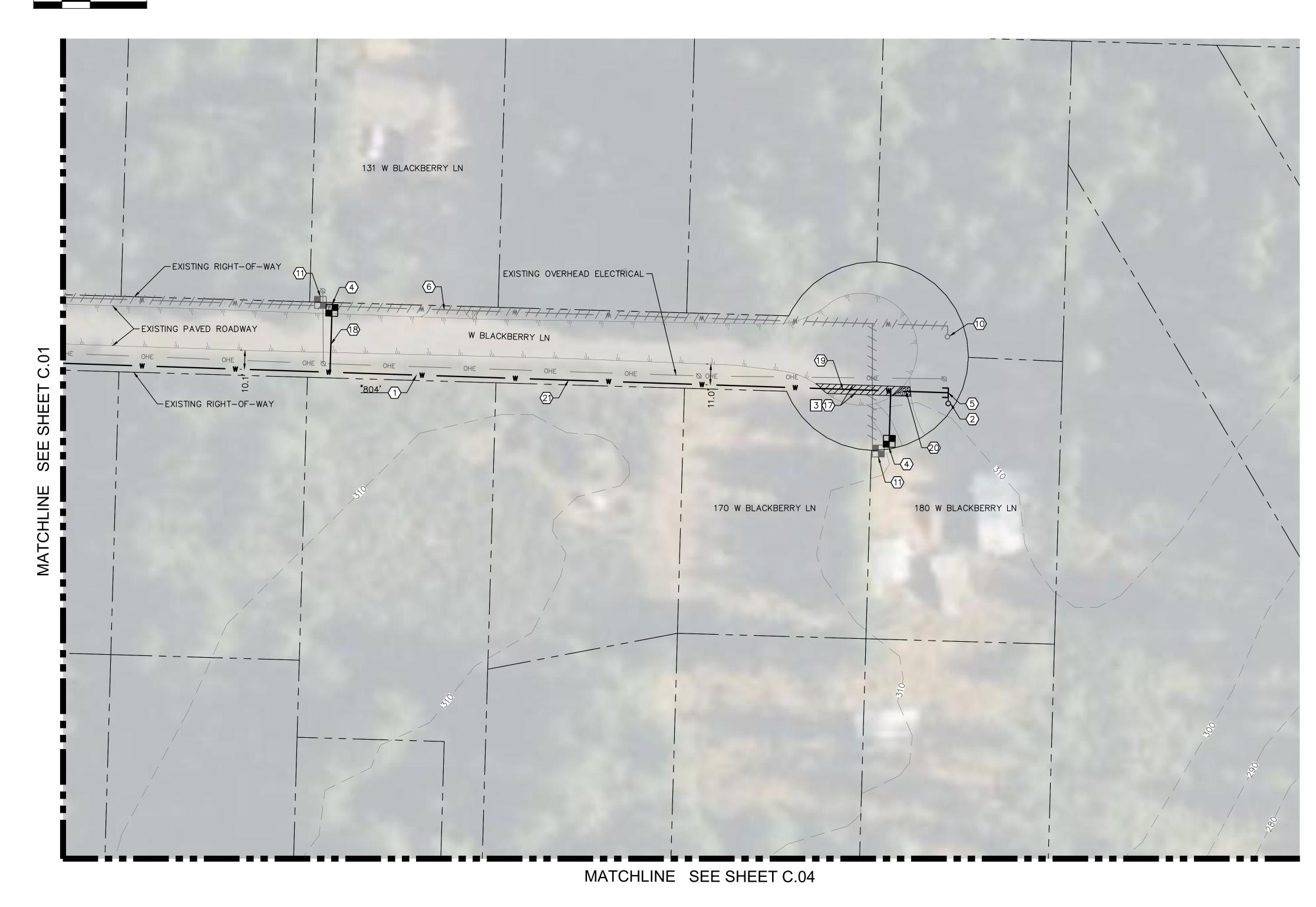


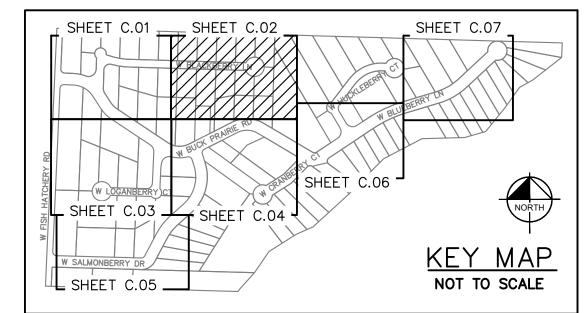
SCALE AS SHOWN GTC DRAWN BY GTC

MASON PUBLIC UTILITY DISTRICT NO. 1 RIPPLEWOOD WATER MAIN REPLACEMENT

WATER MAIN PLANS -W BUCK PRAIRE RD & W BLACKBERRY LN

C.01





- 1) INSTALL 4" SDR11 HDPE BUTT FUSED WATER MAIN, TRENCH AND BEDDING PER DETAIL 5/D.01
- (2) INSTALL BLOW OFF VALVE ASSEMBLY AT END OF LINE PER DETAIL
- 4 INSTALL METER BOX AND 1" WATER SERVICE PER DETAIL 8/D.02, 9/D.02 AND 10/D.02, MAXIMUM 5' DISTANCE FROM EXISTING
- 5 INSTALL 4" SDR11 HDPE END CAP, BUTT FUSED TO MAIN
- 6 EXISTING 2" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
- EXISTING BLOW OFF VALVE, PROTECT DURING CONSTRUCTION.
 DISTRICT WILL REMOVE EXISTING BLOW OFF FOLLOWING CONSTRUCTION.
- ONCE SERVICE SWAPPED AND EXISTING MAIN HAS BEEN ABANDONED, PUD TO SALVAGE HARDWARE, CONTRACTOR TO RESTORE DISTURBED SURFACES
- 17 FULL DEPTH SAWCUT
- 18) INSTALL 1" SERVICE USING HOLE HAWG OR OTHER DIRECTIONAL DRILLING WHEN IN PAVED AREA
- 19 RESTORE ASPHALT PER DETAIL 5/D.01
- PRESTORE GRAVEL PER DETAIL 5/D.01
- 2 RESTORE ROADSIDE PER DETAIL 5/D.01

TESC NOTES:

3 APPLY BMP C152 PER DOE MANUAL

PLAI RRY MAIN CKBEF M K

- CAUTION: ROADWAY DIGITIZED USING AERIAL IMAGERY, ACTUAL CONDITIONS MAY VARY.
- 2. CONTRACTOR SHALL SURVEY THE PROJECT PRIOR TO CONSTRUCTION TO VERIFY EXISTING RIGHT—OF—WAY, UTILITIES, AND ROADWAY LIMITS TO SATISFY FOR THEMSELVES THE WORK TO BE PERFORMED.
- 3. CONTRACTOR TO MAINTAIN A MINIMUM 36" DEPTH OF COVER FOR THE PROPOSED WATER MAIN THROUGHOUT SITE.
- 4. CONTRACTOR TO VERIFY AIR RELEASE VALVES ARE PLACED AT LOCAL WATER MAIN HIGH POINTS.
- 5. MINIMUM ALLOWABLE COLD BEND RADIUS FOR 4" SDR11 HDPE IS
- 6. MAILBOXES IMPEDING CONSTRUCTION TO BE TEMPORARILY RELOCATED TO WITHIN 10' OF EXISTING POSITION AND REPLACED AT ORIGINAL POSITION ONCE WATER MAIN CONSTRUCTION IS COMPLETE.

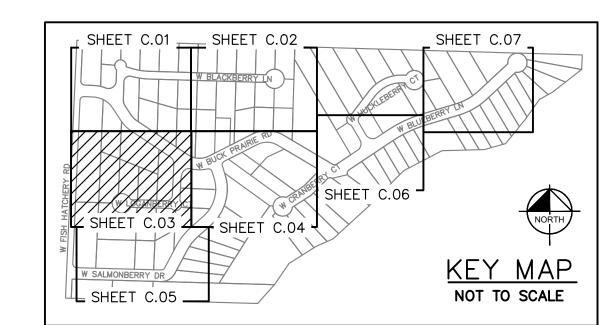
*WATER MAIN SPANS MULTIPLE SHEETS, TOTAL BUTT FUSED LENGTH BETWEEN ELECTRO FUSION FITTINGS DISPLAYED

C.02 5 OF 12

MATCHLINE SEE SHEET C.01



MATCHLINE SEE SHEET C.05



WATER NOTES:

- 1) INSTALL 4" SDR11 HDPE BUTT FUSED WATER MAIN, TRENCH AND BEDDING PER DETAIL 5/D.01
- (2) INSTALL BLOW OFF VALVE ASSEMBLY AT END OF LINE PER DETAIL 1/D.01
- (3) INSTALL 1" AIR RELEASE VALVE ASSEMBLY AT HIGH POINT PER DETAIL 2/D.01
- (4) INSTALL METER BOX AND 1" WATER SERVICE PER DETAIL 8/D.02, 9/D.02 AND 10/D.02, MAXIMUM 5' DISTANCE FROM EXISTING METER
- $\langle 5 \rangle$ INSTALL 4" SDR11 HDPE END CAP, BUTT FUSED TO MAIN
- 6 EXISTING 2" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
- 8 EXISTING 3" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
- ONCE SERVICE SWAPPED AND EXISTING MAIN HAS BEEN ABANDONED, PUD TO SALVAGE HARDWARE, CONTRACTOR TO RESTORE DISTURBED SURFACES
- 12 INSTALL 4" SDR11 HDPE ELECTROFUSION TEE, PER MANUFACTUER DIRECTION
- 16 INSTALL:
 1-4" DUCTILE IRON GATE VALVE, FL, PER DETAIL 3/D.01
 2-4" SDR11 HDPE BUTT FUSION FLANGE ADAPTERS AND BACKING RINGS
- (17) FULL DEPTH SAWCUT
- 18 INSTALL 1" SERVICE USING HOLE HAWG OR OTHER DIRECTIONAL DRILLING WHEN IN PAVED AREA
- (19) RESTORE ASPHALT PER DETAIL 5/D.01
- RESTORE GRAVEL PER DETAIL 5/D.01
- (21) RESTORE ROADSIDE PER DETAIL 5/D.01
- 22 PROTECT ROCK GARDEN DURING CONSTRUCTION
- PROTECT TREE ROOTS DURING EXCAVATION AND CONSTRUCTION,
 HAND DIG IF NECESSARY. SEVERING ANY ROOTS LARGER THAN 4"
 REQUIRES A LICENSED ARBORIST ONSITE DURING CUTTING AT
 CONTRACTOR EXPENSE.

TESC NOTES:

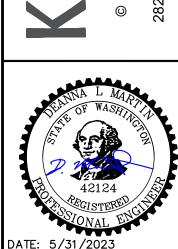
- 2 INSTALL WATTLES PER DTL ON SHEET G.03
- 3 APPLY BMP C152 PER DOE MANUAL

NOTE

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- 3. CONTRACTOR TO MAINTAIN A MINIMUM 36" DEPTH OF COVER FOR THE PROPOSED WATER MAIN THROUGHOUT SITE.
- 4. CONTRACTOR TO VERIFY AIR RELEASE VALVES ARE PLACED AT LOCAL WATER MAIN HIGH POINTS.
- 5. MINIMUM ALLOWABLE COLD BEND RADIUS FOR 4" SDR11 HDPE IS 50'.
- 6. MAILBOXES IMPEDING CONSTRUCTION TO BE TEMPORARILY RELOCATED TO WITHIN 10' OF EXISTING POSITION AND REPLACED AT ORIGINAL POSITION ONCE WATER MAIN CONSTRUCTION IS COMPLETE.

*WATER MAIN SPANS MULTIPLE SHEETS, TOTAL BUTT FUSED LENGTH BETWEEN ELECTRO FUSION FITTINGS DISPLAYED

6 OF 12



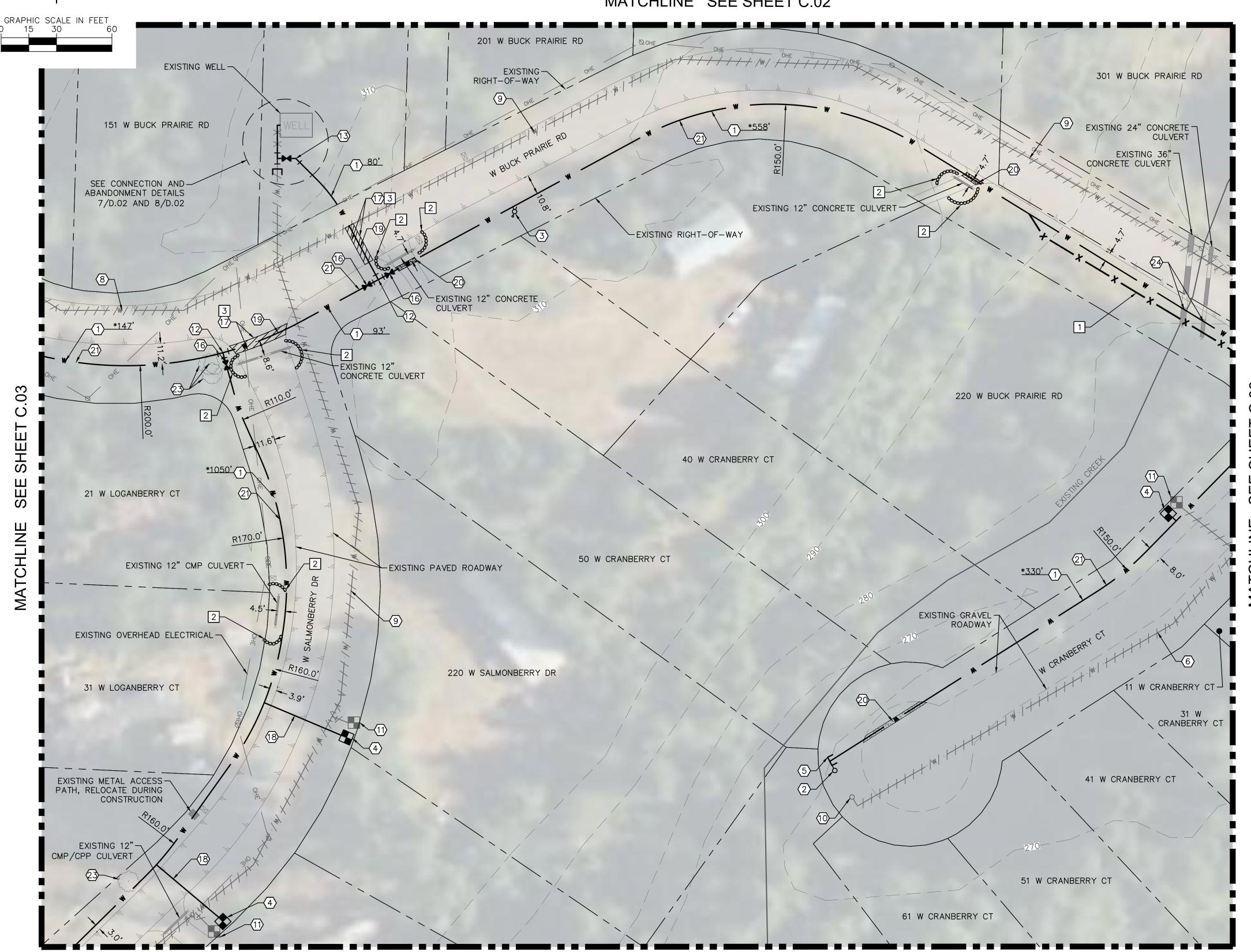
DATE
05/30/2023
SCALE AS SHOWN
DESIGNED BY GTC
DRAWN BY GTC

MASON PUBLIC UTILIT
DISTRICT NO. 1
RIPPLEWOOD WATER
MAIN REPLACEMENT

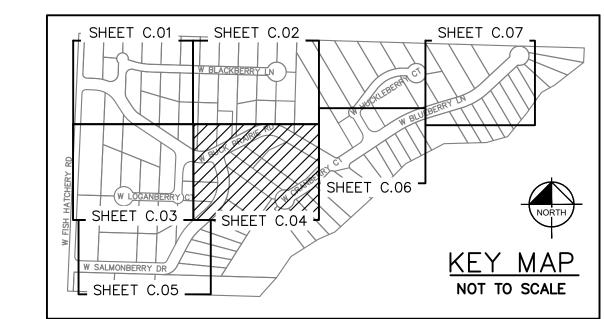
/ATER MAIN PLANS -V BUCK PRAIRIE RD W LOGANBERRY CT

C.03

MATCHLINE SEE SHEET C.02



MATCHLINE SEE SHEET C.05



WATER NOTES:

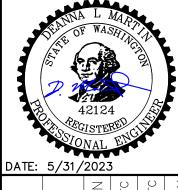
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- (2) INSTALL BLOW OFF VALVE ASSEMBLY AT END OF LINE PER DETAIL
- (3) INSTALL 1" AIR RELEASE VALVE ASSEMBLY AT HIGH POINT PER DETAIL 2/D.01
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- $\langle 5 \rangle$ INSTALL 4" SDR11 HDPE END CAP, BUTT FUSED TO MAIN
- (6) EXISTING 2" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
- (8) EXISTING 3" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
- 9 EXISTING 4" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
- EXISTING BLOW OFF VALVE, PROTECT DURING CONSTRUCTION.
 DISTRICT WILL REMOVE EXISTING BLOW OFF FOLLOWING CONSTRUCTION.
- (11) ONCE SERVICE SWAPPED AND EXISTING MAIN HAS BEEN ABANDONED, PUD TO SALVAGE HARDWARE, CONTRACTOR TO RESTORE DISTURBED SURFACES
- (12) INSTALL 4" SDR11 HDPE ELECTROFUSION TEE, PER MANUFACTUER
- (13) INSTALL 4" SDR11 HDPE ELECTROFUSION 45" BEND, PER MANUFACTUER DIRECTION
- (16) INSTALL:
- 1-4" DUCTILE IRON GATE VALVE, FL, PER DETAIL 3/D.01 2-4" SDR11 HDPE BUTT FUSION FLANGE ADAPTERS AND BACKING
- (17) FULL DEPTH SAWCUT
- (18) INSTALL 1" SERVICE USING HOLE HAWG OR OTHER DIRECTIONAL DRILLING WHEN IN PAVED AREA
- 19 RESTORE ASPHALT PER DETAIL 5/D.01
- RESTORE GRAVEL PER DETAIL 5/D.01
- 2 RESTORE ROADSIDE PER DETAIL 5/D.01
- 23) PROTECT TREE ROOTS DURING EXCAVATION AND CONSTRUCTION, HAND DIG IF NECESSARY. SEVERING ANY ROOTS LARGER THAN 4" REQUIRES A LICENSED ARBORIST ONSITE DURING CUTTING AT CONTRACTOR EXPENSE.
- 24) CULVERT CROSSING, CONTRACTOR TO INSTALL PROPOSED HDPE WATER MAIN ABOVE CULVERT AT A MINIMUM 1' VERTICAL SEPARATION AT CROSSING

TESC NOTES:

- 1 INITIAL SILT FENCE PER DTL ON SHEET G.03
- 2 INSTALL WATTLES PER DTL ON SHEET G.03
- 3 APPLY BMP C152 PER DOE MANUAL

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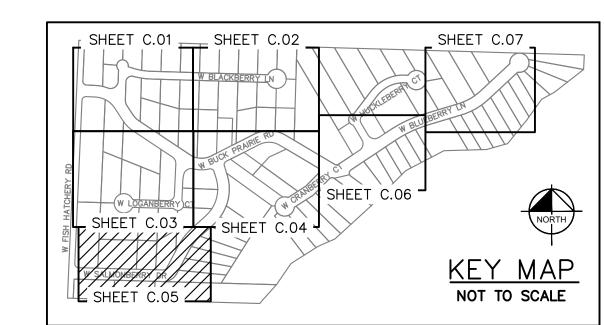
*WATER MAIN SPANS MULTIPLE SHEETS, TOTAL BUTT FUSED LENGTH BETWEEN ELECTRO FUSION FITTINGS DISPLAYED



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C.04



- 1) INSTALL 4" SDR11 HDPE BUTT FUSED WATER MAIN, TRENCH AND
- (2) INSTALL BLOW OFF VALVE ASSEMBLY AT END OF LINE PER DETAIL
- 9/D.02 AND 10/D.02, MAXIMUM 5' DISTANCE FROM EXISTING METER
- \bigcirc INSTALL 4" SDR11 HDPE END CAP, BUTT FUSED TO MAIN
- 9 EXISTING 4" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND
- ONCE SERVICE SWAPPED AND EXISTING MAIN HAS BEEN ABANDONED, PUD TO SALVAGE HARDWARE, CONTRACTOR TO RESTORE DISTURBED SURFACES
- 18 INSTALL 1" SERVICE USING HOLE HAWG OR OTHER DIRECTIONAL DRILLING WHEN IN PAVED AREA
- 20 RESTORE GRAVEL PER DETAIL 5/D.01
- 23 PROTECT TREE ROOTS DURING EXCAVATION AND CONSTRUCTION, HAND DIG IF NECESSARY. SEVERING ANY ROOTS LARGER THAN 4" REQUIRES A LICENSED ARBORIST ONSITE DURING CUTTING AT CONTRACTOR EXPENSE.

- BEDDING PER DETAIL 5/D.01
- 3 INSTALL 1" AIR RELEASE VALVE ASSEMBLY AT HIGH POINT PER DETAIL 2/D.01
- $\langle 4 \rangle$ INSTALL METER BOX AND 1" WATER SERVICE PER DETAIL 8/D.02,
- ABANDONED IN PLACE

- 2 RESTORE ROADSIDE PER DETAIL 5/D.01

MASON F DIST RIPPLEV MAIN RE

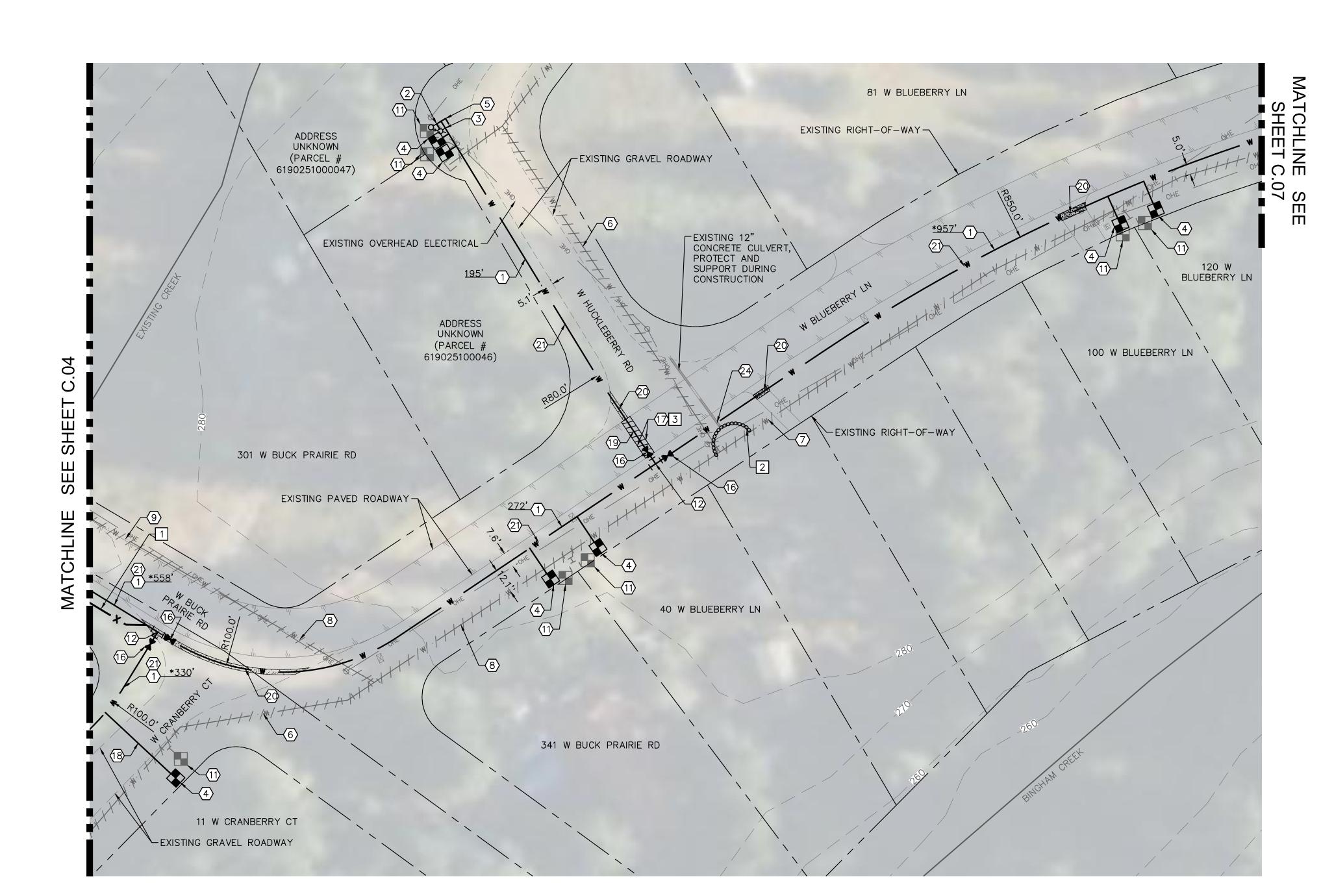
WATER MAIN PLANS W SALMONBERRY D

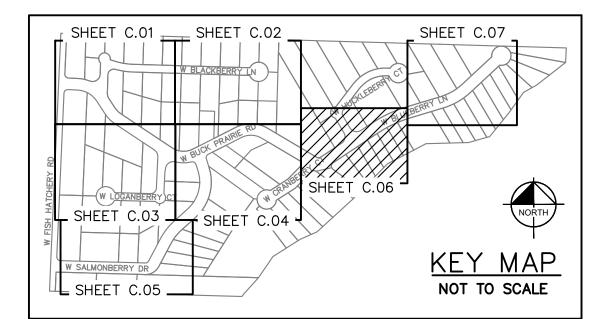
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8 OF 12

C.05





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- ONCE SERVICE SWAPPED AND EXISTING MAIN HAS BEEN ABANDONED, PUD TO SALVAGE HARDWARE, CONTRACTOR TO RESTORE DISTURBED SURFACES
- 12 INSTALL 4" SDR11 HDPE ELECTROFUSION TEE, PER MANUFACTUER DIRECTION
- (16) INSTALL:

 1-4" DUCTILE IRON GATE VALVE, FL, PER DETAIL 3/D.01

 2-4" SDR11 HDPE BUTT FUSION FLANGE ADAPTERS AND BACKING RINGS
- 17 FULL DEPTH SAWCUT
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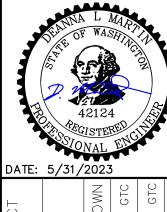
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*WATER MAIN SPANS MULTIPLE SHEETS, TOTAL BUTT FUSED LENGTH BETWEEN ELECTRO FUSION FITTINGS DISPLAYED © May 30, 2023 KIMLEY-HORI INC. 2828 COLBY AVENUE, SUITE 200,



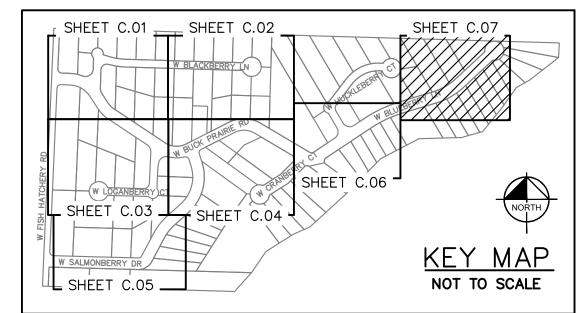
SCALE AS SHOWN
DESIGNED BY GTC
DRAWN BY GTC
CHECKED BY GTC

MASON PUBLIC UTILIT
DISTRICT NO. 1
RIPPLEWOOD WATER
MAIN REPLACEMENT

VATER MAIN PLANS. W BLUEBERRY LN & N HUCKLEBERRY CT

C.06





- 1) INSTALL 4" SDR11 HDPE BUTT FUSED WATER MAIN, TRENCH AND BEDDING PER DETAIL 5/D.01
- 2 INSTALL BLOW OFF VALVE ASSEMBLY AT END OF LINE PER DETAIL 1/D.01
- (3) INSTALL 1" AIR RELEASE VALVE ASSEMBLY AT HIGH POINT PER DETAIL 2/D.01
- (4) INSTALL METER BOX AND 1" WATER SERVICE PER DETAIL 8/D.02, 9/D.02 AND 10/D.02, MAXIMUM 5' DISTANCE FROM EXISTING METER
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- 17) FULL DEPTH SAWCUT
- 18 INSTALL 1" SERVICE USING HOLE HAWG OR OTHER DIRECTIONAL DRILLING WHEN IN PAVED AREA
- (19) RESTORE ASPHALT PER DETAIL 5/D.01
- RESTORE GRAVEL PER DETAIL 5/D.01
- 2 RESTORE ROADSIDE PER DETAIL 5/D.01

TESC NOTES:

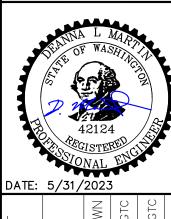
3 APPLY BMP C152 PER DOE MANUAL

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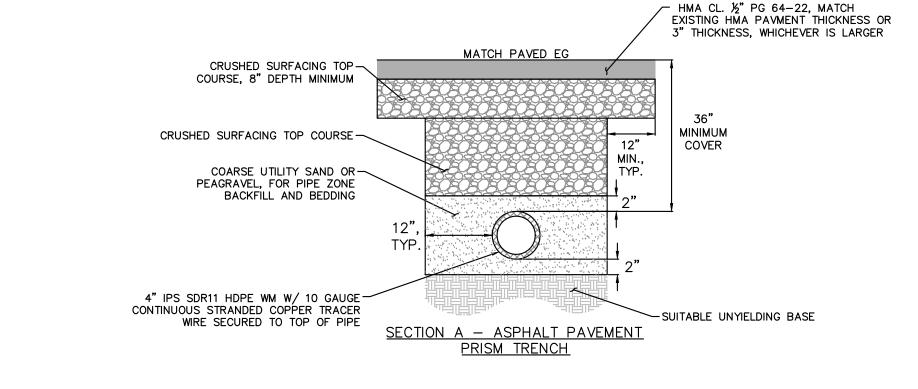


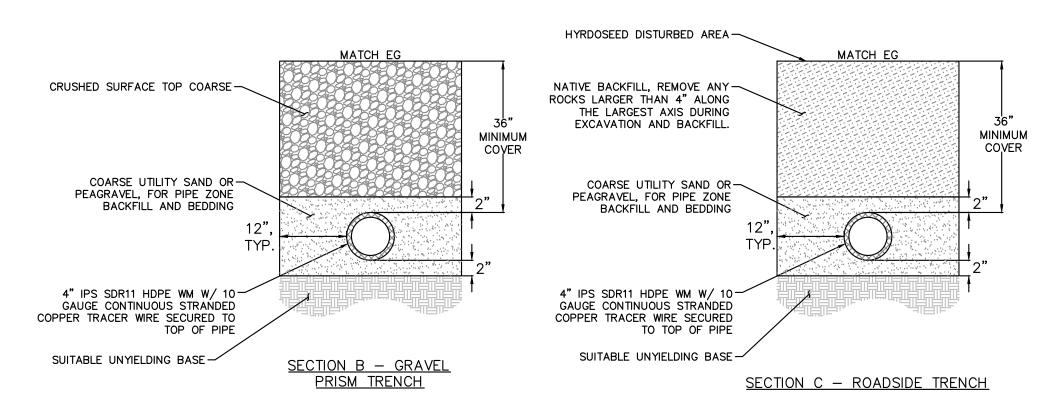
SCALE AS SHOWN
DESIGNED BY GTC
ORAWN BY GTC

MASON PUBLIC UTILITO DISTRICT NO. 1
RIPPLEWOOD WATE

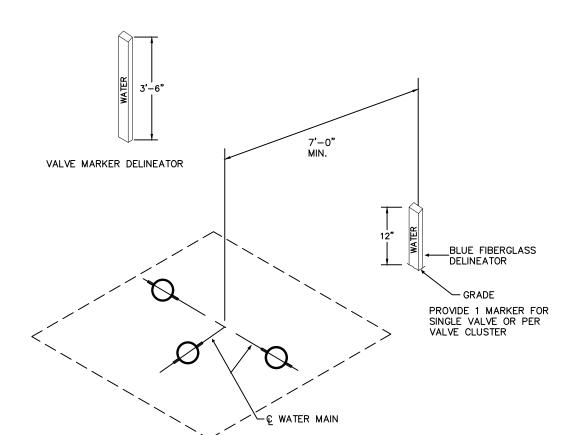
WATER MAIN PLANS W BLUEBERRY LN

C.07





TRENCH SECTIONS ROAD AND ROADSIDE SECTIONS \ D.01 SCALE: N.T.S.



1. VALVE MARKER SHALL BE INSTALLED WHERE DIRECTED BY DISTRICT.

VALVE MARKER SHALL BE A MINIMUM 42" LONG AND SHALL BE INSTALLED AS DIRECTED BY DISTRICT.

3. VALVE MARKER SHALL BE BLUE FIBERGLASS DELINEATOR.

4. THE DELINEATOR SHALL BE SET AT RIGHT ANGLES TO THE ROADWAY FROM THE VALVE. AND SHALL BE SITUATED IN A SAFE AND REASONABLY CONSPICUOUS LOCATION.

5. THE SOILS SUPPORTING DELINEATOR SHALL BE TIGHTLY COMPACTED TO SECURE POST IN THE GROUND.

VALVE MARKER MPUD STANDARD DETAIL SCALE: N.T.S.

- CONCRETE COLLAR

- COVER, C.I. OR BRONZE, MARKED

---POUR CONCRETE TO GRADE

CONTINUOUS STRANDED COPPER WIRE

TERMINATING IN VALVE BOX IN PAD,

10 GAUGE FOR ALL OPEN CUT CONSTRUCTION,

8 GAUGE FOR ALL DIRECTIONALLY DRILLED

- HALF HITCH

PROVIDE 18" LOOP, WRAPPED IN BOX

"WATER" AND SHALL HAVE

BOLT DOWN COVER IN

TRAFFIC AREAS

CONSTRUCTION

DATE: 5/31/2023

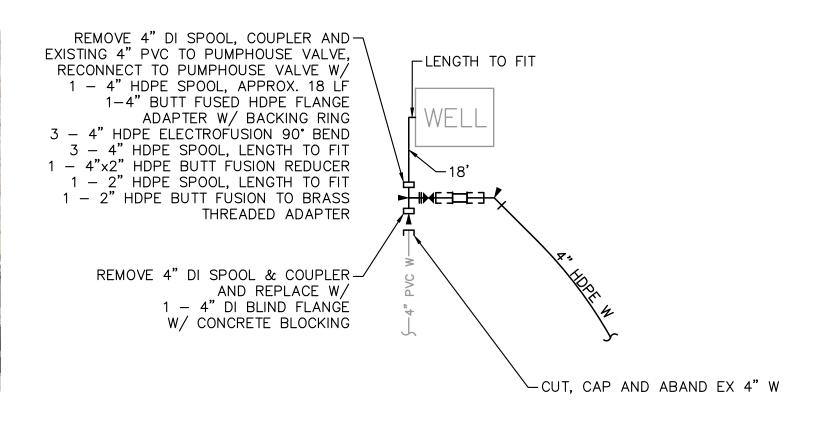
TER

MASON DIS-RIPPLE MAIN R

D.01

BRASS GATE VALVE TO BE REMOVED AND REPLACED WITH HDPE

SCALE: N.T.S.



CONTINUAL SERVICE DETAIL (PAID AS ONE CONNECTION) SCALE: N.T.S.

D.02

ALL EXISTING PVC TO EXISTING

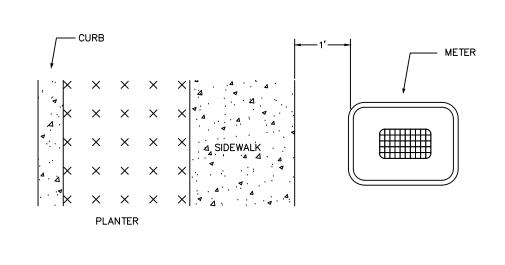
ABANDONMENT AND FINAL CONNECTION DETAIL (PAID AS SECOND CONNECTION)

ZSIDEWALK ₹

THICKENED PROPERTY LINE -— METER \times \times \times \times \times \times \times \times \times \times \times \times \times \times \times \times \times \times

CURB AND SIDEWALK

CURB OR THICKENED EDGE



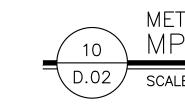
PROPERTY LINE -SHOULDER - \times \times \times \times \times \times \times \times \times \times

DITCH

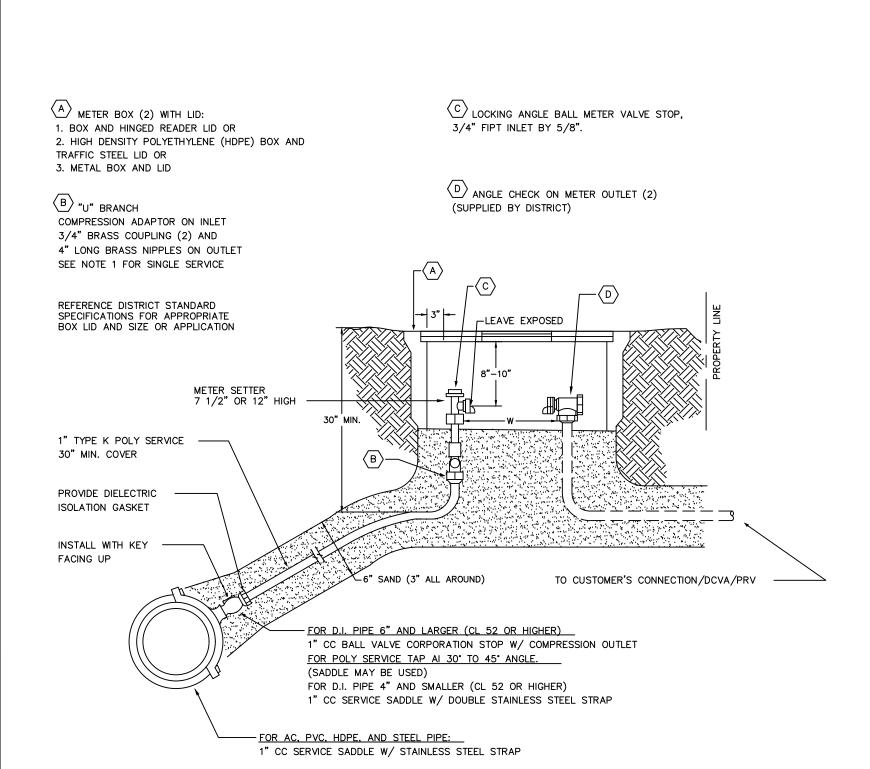
PLANTER STRIP

AN EASEMENT IS REQUIRED TO PLACE WATER BOX OUTSIDE RIGHT-OF WAY

- 1. METER BOX SHALL BE INSTALLED PERPENDICULAR TO THE SIDEWALK, EASEMENT, OR STREET; MATCHING GRADE AND SLOPE OF THE SIDEWALK, ASPHALT, SHOULDER, OR CURB TO AVOID STORM WATER GETTING INTO THE METER BOX.
- 2. SIDEWALKS BEHIND PLANTER STRIP 1' BEHIND EDGE OF SIDEWALK UNLESS APPROVED BY DISTRICT.
- 3. CURB, ROLLED CURB OR THICKENED EDGE WITH NO SIDEWALK 1' FROM PROPERTY LINE.
- 4. SHOULDER 1' FROM PROPERTY LINE.
- 5. SPECIAL CIRCUMSTANCES AS DIRECTED BY DISTRICT ENGINEER.
- 6. METER BOX TO BE ADJACENT TO LOT LINE OR APPROVED BY DISTRICT FOR LARGE LOTS.
- 7. SERVICE LINE SHALL BE PERPENDICULAR TO WATER MAIN STRAIGHT/LEVEL AS POSSIBLE AND LOCATED TO AVOID CONFLICTS WITH OTHER UTILITIES.
- 8. METER BOX SHALL NOT BE LOCATED IN DRIVEWAY UNLESS APPROVED BY DISTRICT ENGINEER, AND LOCAL JURISDICTION. USE TRAFFIC RATED BOX AND LID IN VEHICULAR TRAVEL AREA OR WITH 1' FROM DRIVEWAY WITHOUT SIDEWALK.



METER BOX LOCATION MPUD STANDARD DETAIL SCALE: N.T.S.



- 1. THIS DETAIL IS FOR TYPICAL DUAL-METER SERVICES. FOR SINGLE SERVICE, CONNECT POLY DIRECTLY TO
- LOCKING ANGLE BALL VALVE STOP WITH 1" COMPRESSION INLET. 2. CONTRACTOR/DEVELOPER SHALL MAKE APPLICATION FOR METER WITH DISTRICT. WATER METER TO BE
- 3. METER BOX SHALL BE INSTALLED FLUSH WITH FINAL GRADE (TOP OF SIDEWALK, ASPHALT, SHOULDER, OR CURB) AND MUST BE SIZED TO ALLOW FOR MIN. CLEARANCE REQUIREMENTS. 4. 1" SERVICE LINE SHALL NOT EXCEED 50' UNLESS APPROVED BY DISTRICT ENGINEER.
- 5. USE METAL BOX LID IN VEHICULAR TRAVEL AREA OR WITHIN 1" FROM DRIVEWAY WITHOUT SIDEWALK. USE HDPE BOX WITH TRAFFIC STEEL LID AS DIRECTED BY DISTRICT ENGINEER.

STANDARD METERS MPUD STANDARD DETAIL D.02 SCALE: N.T.S.

RESIDENTIAL METER LAYOUT MPUD STANDARD DETAIL

SCALE: N.T.S.

TESTING CONNECTION CONTINUAL SERVICE CONNECTION

> TO OUTSIDE HOSE TO OUTSIDE HOSE TO INSIDE BIBS & IRRIGATION PROPERTY LINE OR R/W | OUTSIDE-USE —/ METER (TO HOSE BIBS & IRRIGATION) INSIDE-USE METER - OUTSIDE-USE METER (TO HOSE BIBS & IRRIGATION) (DOMESTIC) U-BRANCH WITH BRASS NIPPLES 14" WITH TOW BOX ARRANGEMENT 8" SERVICE LINE WITH SINGLE DUAL METER ARRANGEMENT

NOTES:

- 1. DUAL-METER SERVICE SHALL BE INSTALLED AS SHOWN ON THIS DETAIL WHERE DUAL-METER SERVICE IS REQUIRED.
- 2. A PRESSURE REDUCING VALVE (PRV) SHALL BE INSTALLED ON INDOOR USE SERVICE WHERE PRESSURE EXCEEDS 80 PSI (AND OUTSIDE USE IF REQUIRED BY PLUMBING CODE)
- 3. DOH-APPROVED DOUBLE CHECK VALVE ASSEMBLY (DCVA) IS REQUIRED FOR OUTDOOR USE (IRRIGATION AND HOUSE BIBS).

D.02 12 OF 12

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DATE: 5/31/2023

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