

ATTACHMENT G

EAST REDMOND MANAGED CAMP SUPPORTIVE SHELTER CONSTRUCTION PLANS

1002 NE 17TH ST
TAX LOT -103, MAP -15130000
711-25-000106-PW
AUGUST, 2025



VICINITY MAP
NTS

SITE INFORMATION
ADDRESS: 1002 NE 17TH ST
PROPERTY SIZE: 5.33 ACRES
ZONING: M1

PROPOSED USE
MANAGED CAMP

OWNER
DESCHUTES COUNTY
PO BOX 8005
BEND, OR 97708

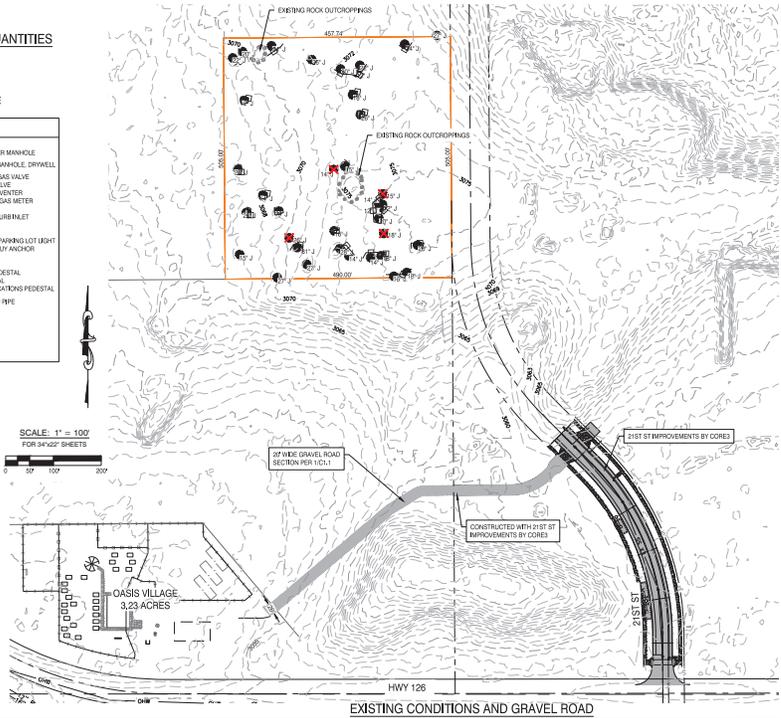
**PUBLIC IMPROVEMENT QUANTITIES
(FOR CITY FEES)**
493LF 12" DI WATER LINE
1EA FIRE HYDRANTS
1EA 2" WATER SERVICE
1EA 6" FIRE HYDRANT SERVICE

CIVIL ENGINEER
H.A. MFCOY ENGINEERING & SURVEYING
CONTACT: HAYES MFCOY
1180 SW LAKE ROAD
SUITE 201
REDMOND, OR 97756
PH: 541-923-7554

SHEET INDEX
C1.0 COVER SHEET AND EXISTING CONDITIONS
C1.1 GENERAL NOTES AND CROSS SECTIONS
C1.2 SITE AND UTILITY PLAN
C1.3 SITE GRADING AND DRAINAGE PLAN
C2.0 21ST ST PLAN AND PROFILE
C3.0 CAMPSPACE DETAILS
C3.1 STANDARD DETAILS
C3.2 STANDARD DETAILS

LEGEND	
EXISTING	PROPOSED
— SCAL —	○ EXISTING CABLE
— DAG —	○ EXISTING GAS
— DRNG —	○ EXISTING IRRIGATION
— DWH —	○ EXISTING OVERHEAD LINES
— DPOW —	○ EXISTING POWER
— EX SS —	○ EXISTING SANITARY SEWER
— EX SD —	○ EXISTING STORM DRAIN
— EXCOM —	○ EXISTING TELECOMMUNICATIONS
— EXMT —	○ EXISTING WATER
— GAS —	○ NEW GAS
— IRRIG —	○ NEW IRRIGATION
— POWER —	○ NEW POWER
— SANSEW —	○ NEW SANITARY SEWER
— SD —	○ NEW STORM DRAIN
— TELCOM —	○ NEW TELECOMMUNICATIONS
— WATER —	○ NEW WATER
— FENCE —	— EXISTING RIGHT-OF-WAY
— EXISTING EDGE OF GRAVEL	— EXISTING EDGE OF GRAVEL
— EXISTING CURB	— EXISTING CURB
— NEW EDGE OF GRAVEL	— NEW EDGE OF GRAVEL
— NEW EDGE OF PAVEMENT	— NEW EDGE OF PAVEMENT
— NEW CURB	— NEW CURB
○ EXISTING	○ SANITARY SEWER MANHOLE
○ EXISTING	○ STORM DRAIN MANHOLE/DRIVEWELL
○ EXISTING	○ WATER VALVE, GAS VALVE
○ EXISTING	○ AIR RELEASE VALVE
○ EXISTING	○ BACKFLOW PREVENTER
○ EXISTING	○ WATER METER/GAS METER
○ EXISTING	○ FIRE HYDRANT
○ EXISTING	○ COCK/BRANCH/BRINLET
○ EXISTING	○ CLEAN OUT
○ EXISTING	○ RAIN DRAIN
○ EXISTING	○ STREET LIGHT, PARKING LOT LIGHT
○ EXISTING	○ UTILITY POLE, GUY ANCHOR
○ EXISTING	○ UTILITY VAULT
○ EXISTING	○ ELECTRICAL, PEDESTAL
○ EXISTING	○ CABLE PEDESTAL
○ EXISTING	○ TELECOMMUNICATIONS PEDESTAL
○ EXISTING	○ IRON ROD, IRON PIPE
○ EXISTING	○ TREE
○ EXISTING	○ SIGN
○ EXISTING	○ MAIL BOX

✗ TREE TO REMOVE



PLAN APPROVALS

REDMOND CITY ENGINEER/ PUBLIC WORKS DIRECTOR (SIGNATURE DOES NOT APPROVE CONSTRUCTION TO BEGIN)	DATE
REDMOND FIRE AND RESCUE	DATE
DEVELOPER/OWNER	DATE
PACIFIC POWER	DATE
CASCADE NATURAL GAS	DATE
REDMOND POSTMASTER	DATE
CENTURYLINK- LUMEN	DATE
BEND BROADBAND	DATE

VERTICAL DATUM
ELEVATIONS ARE BASED ON TIE TO CITY OF REDMOND BENCHMARK 8-M-2 BEING A 3" BRASS DISK SET IN CONCRETE ABUTMENT OF WING WALL AT THE SW CORNER OF CANAL BRIDGE AT THE INTERSECTION OF NW GREENWOOD AVE AND NW CANAL BLVD, ELEVATION = 2990.38' (NGVD29)

ATTENTION EXCAVATORS:

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 1-800-332-2344. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 1-800-332-2344.



DATE	REVISION
10/1/25	1
10/1/25	2
10/1/25	3
10/1/25	4
10/1/25	5
10/1/25	6
10/1/25	7
10/1/25	8
10/1/25	9
10/1/25	10



PROJECT: EAST REDMOND MANAGED CAMP
PROJECT LOCATION: REDMOND, OR
SHEET: DESCHUTES CO./CITY OF REDMOND

SHEET TITLE: COVER SHEET AND EXISTING CONDITIONS

JOB NO. 22-170
DRAWN BY: MC
DRAWING: C1.0

KEY NOTES

- 1 CAMPSPACE 30' X 50' (TYP) @ MIN SEPARATION, SEE CAMPSPACE DETAIL SHEET C3.0
- 2 ADA CAMPSPACE 42' X 50' (TYP) SEE CAMPSPACE DETAIL C3.0
- 3 EXISTING ROCK OUTCROPPINGS TO REMAIN
- 4 6' TALL FENCE WITH SIGHT OBSCURING SLATS
- 5 24" WIDE ACCESS GATE WITH REDMOND FIRE AND RESCUE APPROVED KNOX BOX
- 6 GRAVEL PAD FOR PORTABLE RESTROOMS, COMPACTED 4" DEPTH 3/4"-0" AGGREGATE
- 7 PUBLIC WATER MAIN WITHIN 21ST ST ROW, SEE SHEET C2.0
- 8 INSTALL PRIVATE FIRE HYDRANT PER COR STD 4-12, 4-13, PLACE (2) 3KX2K' (MIN) BOULDERS AROUND HYDRANT CONSTRUCT 2' X 2' X 4" DEPTH CONCRETE PAD AROUND VALVE LID.
- 9 2" WATER SERVICE LINE FROM BACKFLOW TO WESTERN END OF PROJECT, 1" SERVICE LINE TO COOKING AREAS PER OPSC AND TRENCH DETAIL THIS SHEET, CONTRACTOR TO OBTAIN PLUMBING PERMIT
- 10 1.5" WATER METER PER SHEET C2.0, INSTALL 1.5" BACKFLOW PREVENTER PER COR STD 4-18
- 11 INSTALL 6" DCDA AND VAULT (687-WA) PER COR STD DWG 4-22, OMIT FDC
- 12 PAD FOR TRASH / RECYCLING 16' X 8' SEE DETAIL ON SHEET C3.2, COMPACTED 6" DEPTH 3/4"-0" AGGREGATE.
- 13 OVERHEAD POWER TO COOKING AREAS, INSTALL UTILITY POLES AND GUY ANCHORS (AS REQ) PER DETAIL ON SHEET C3.2 OR APPROVED EQUAL WITH RAB A17 SECURITY LIGHT (OR APPROVED EQUAL), INSTALL PANEL WITH STANDARD 110V OUTLET, CONTRACTOR TO EXTEND OVERHEAD SERVICE LINE PER ELECTRICAL CODE, OBTAIN PERMIT
- 14 MANAGING AGENCY SIGN, INSTALL SIGN BASE (2) 4X4 POSTS EMBEDDED MIN. 18", BACKFILL WITH CONCRETE AND MOUNT SIGN, SIGN TO BE PROVIDED BY OWNER
- 15 COOKING AREA PAD, 25' X 30' COMPACTED 4" DEPTH 3/4"-0" AGGREGATE
- 16 PARKING SPACE FOR SERVICE PROVIDER, COMPACTED 6" DEPTH 3/4"-0" AGGREGATE
- 17 (2) CONEX BOXES FOR STORAGE, CONSTRUCT GRAVEL PAD, COMPACTED 6" DEPTH 3/4"-0" AGGREGATE
- 18 20' WIDE GRAVEL ROAD, COMPACTED 6" DEPTH 3/4"-0" AGGREGATE
- 19 YURT CAMP SPACE, SEE CAMP SPACE DETAILS ON SHEET C3.0
- 20 MANAGER YURT SITE, SEE CAMP SPACE DETAILS ON SHEET C3.0
- 21 INSTALL FROST FREE HYDRANT AT COOKING AREA, SEE DETAIL ON SHEET C3.2
- 22 INSTALL 6' TALL LOCKING MAN GATE.
- 23 EXTEND 6" C-900 FIRE HYDRANT LINE TO FIRE HYDRANT AND TO EDGE OF SITE PER NFPA AND TRENCH DETAIL THIS SHEET, RESTRAIN JOINTS PER JOINT RESTRAINT TABLE THIS SHEET, CONTRACTOR TO OBTAIN FIRE SERVICE LINE PERMIT, END LINE WITH 6" GATE VALVE AND CAP, POUR 2' X 2' X 4" DEPTH CONCRETE PAD AROUND VALVE LID.
- 24 CONSTRUCT 6" TALL BERM ALONG LOW SIDE OF PROJECT TO RETAIN RUNOFF, 3:1 MAX SLOPES, SEE DETAIL THIS SHEET, CAN BE PLACED INSIDE OR OUTSIDE THE FENCE LINE
- 25 CONTRACTOR TO INSTALL POLE AND SERVICE PANEL FOR ELECTRICAL SERVICE AS REQUIRED BY PACIFICORP, SEE SHEET C3.2 FOR POLE AND METER INSTALLATION DETAIL
- 26 INSTALL 2" CONDUIT FROM OVERHEAD POLE TO YURTS PER ELECTRICAL CODE AND TRENCH DETAIL THIS SHEET, TOTAL ELECTRICAL LOAD FOR ALL YURTS IS 16.5KW
- 27 CONTRACTOR TO INSTALL OVERHEAD UTILITY LINE AND INSTALL POLE WITH RAB A17 SECURITY LIGHT PER ELECTRICAL CODE AND POLE DETAIL ON SHEET C3.2, OR APPROVED EQUAL
- 28 CONTRACTOR TO INSTALL OVERHEAD UTILITY LINE AND POLE WITH 50 AMP SERVICE PER ELECTRICAL CODE AND POLE DETAIL ON SHEET C3.2 OR APPROVED EQUAL
- 29 ADDITIONAL PARKING SPACES, COMPACTED 6" DEPTH 3/4"-0" AGGREGATE
- 30 RV SPACE FOR PORTABLE SHOWER, COMPACTED 6" DEPTH 3/4"-0" AGGREGATE 50' X 12'
- 31 INSTALL 2' X 1' TEE PER OPSC.
- 32 POLE BY PACIFIC POWER, SEE POWER PLAN.

- 33 TREE PROTECTION FENCE (TYP), PRUNE PROTECTED TREES AS REQUIRED AND IN COORDINATION WITH ENGINEER

GENERAL NOTES

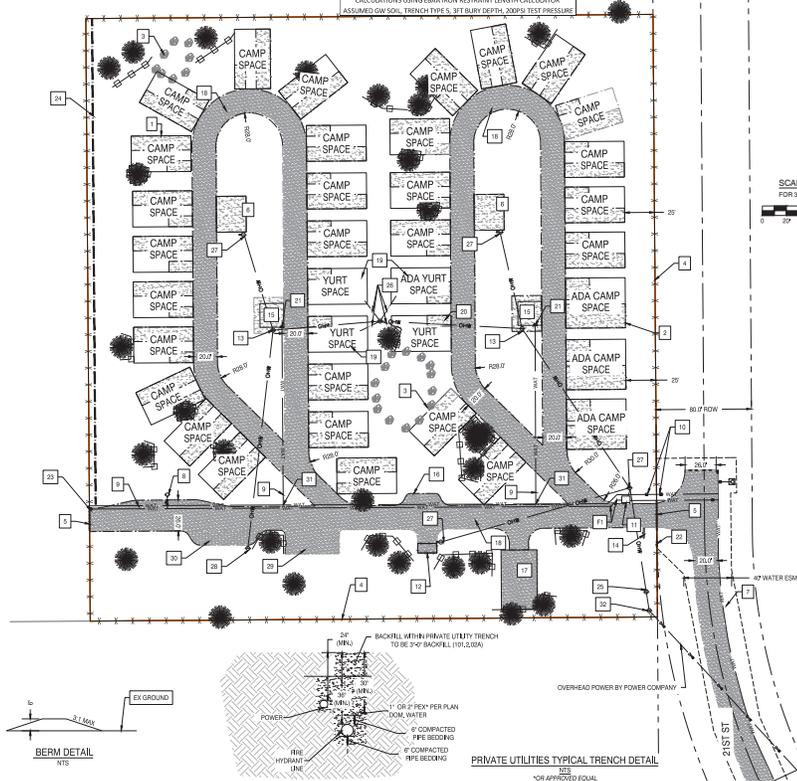
ONSITE IMPROVEMENTS OTHER THEN GRADING AND DRAINAGE ARE SHOWN FOR INFORMATIONAL PURPOSES AND WILL NEED TO BE REVIEWED UNDER A BUILDING PERMIT

FIRE HYDRANT LINE NOTES

- 1 INSTALL 45 DEGREE BEND

RESTRAINED JOINTS MAXIMUM LENGTHS (FT)					
PIPE SIZE (PVC)	11.25 (EACH SIDE)	22.5 (EACH SIDE)	33.75 (EACH SIDE)	TEE DEAD END	TEE BRANCH
4	2	3	6	14	1
6	2	3	6	14	1
8	2	3	6	14	1
10	2	3	6	14	1

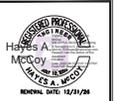
CALCULATIONS USING EBAA FROM RESTRAINT LENGTH CALCULATOR
 ASSUMED GW SOIL TRENCH TYPE S, 3FT BURIED DEPTH, 200PSI TEST PRESSURE



AGGREGATE NOTES:
 AGGREGATE TO BE PROOF ROLLED WITH LOADED DUMP TRUCK OR WATER TRUCK UNDER ENGINEER'S SUPERVISION
 ALL 3/4"-0" AGGREGATE MUST BE PER SECTION 207 OF COR PUBLIC WORKS SPECIFICATIONS.

SITE PLAN

*OR APPROVED EQUAL
 **INCREASED DEPTH OR ALTERNATE TRENCH REQ. PER OPSC 609 IF NON-BUILDING CODE APPROVED MATERIALS USED
 ***WHEN LOCATED WITHIN 9' OF A BUILDING FOUNDATION, PIPE MATERIAL MUST BE PVC DOW OR AFRIC EQUVAL. MATERIALS MAY BE PVC 2300K OR AFRIC EQUVAL OUTSIDE OF BUILDING FOUNDATIONS.



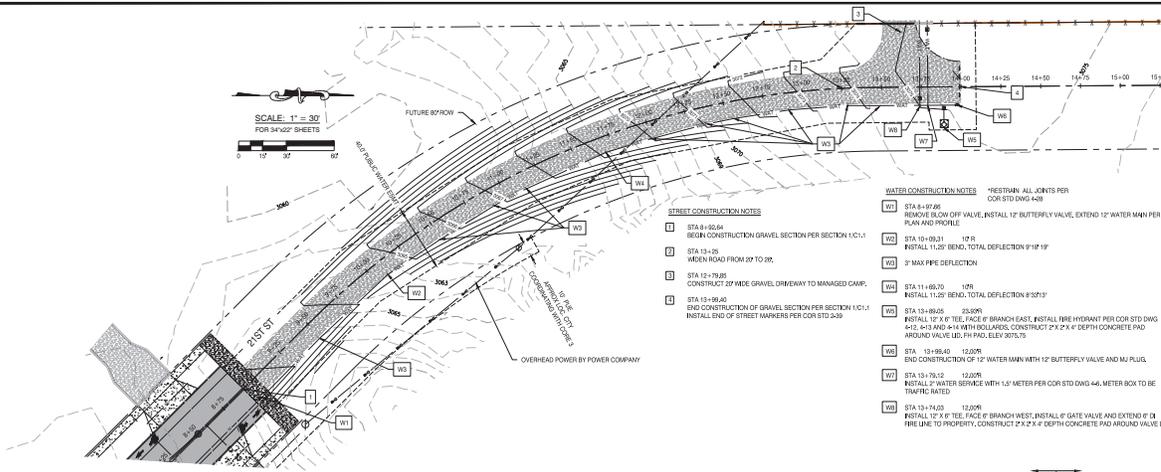
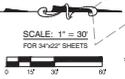
DATE:	
REVISION:	
DATE:	10/11/23
BY:	HA
CHECKED:	
DATE:	
BY:	
CHECKED:	



PROJECT: EAST REDMOND MANAGED CAMP
 PROJECT LOCATION: REDMOND, OR
 CLIENT: DESCHUTES CO./CITY OF REDMOND

SHEET TITLE: SITE AND UTILITY PLAN

JOB NO.: 22-170
 DRAWN BY: MC
 DRAWING: C1.2



STREET CONSTRUCTION NOTES

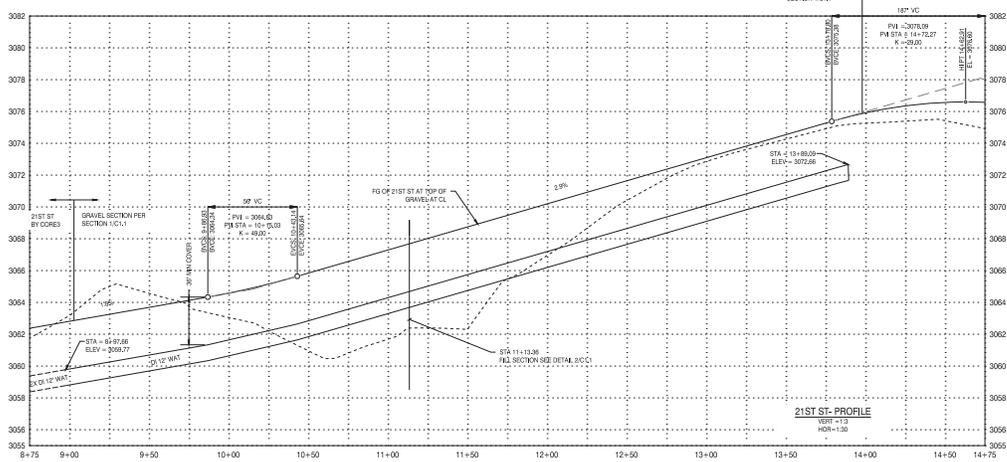
- 1 STA 8+80.64 BEGIN CONSTRUCTION GRAVEL SECTION PER SECTION 1(C)1
- 2 STA 13+26 WIDEN ROAD FROM 20' TO 30'
- 3 STA 12+79.25 CONSTRUCT 20' WIDE GRAVEL DRIVEWAY TO MANAGED CAMP.
- 4 STA 13+89.42 END CONSTRUCTION OF GRAVEL SECTION PER SECTION 1(C)1. INSTALL END OF STREET MARKERS PER COR STD 3439

WATER CONSTRUCTION NOTES *RESTRAN ALL JOINTS PER COR STD DWG 438

- W1 STA 8+87.26 REMOVE BLOW OFF VALVE, INSTALL 12" BUTTERFLY VALVE, EXTEND 12" WATER MAIN PER PLAN AND PROFILE
- W2 STA 10+19.31 12" R INSTALL 11.25' BEND, TOTAL DEFLECTION 0°18'18"
- W3 2" MAX PIPE DEFLECTION
- W4 STA 11+69.70 12" R INSTALL 11.25' BEND, TOTAL DEFLECTION 0°30'13"
- W5 STA 13+89.45 25.50R INSTALL 12" X 6" TEE, FACE OF BRANCH EAST. INSTALL FIRE HYDRANT PER COR STD DWG 445 8" X 4" AND 8" X 8" WITH HOUSINGS. CONSTRUCT 2' X 2' X 4" DEPTH CONCRETE PAD AROUND VALVE LID. PH PAD, ELEV 3075.75
- W6 STA 13+89.40 12.00R END CONSTRUCTION OF 12" WATER MAIN WITH 12" BUTTERFLY VALVE AND M.I. PLUG.
- W7 STA 13+78.12 12.00R INSTALL 2" WATER SERVICE WITH 1.5' METER PER COR STD DWG 446, METER BOX TO BE TYPIC RATED
- W8 STA 13+74.03 12.00R INSTALL 12" X 6" TEE, FACE OF BRANCH WEST, INSTALL 6" GATE VALVE AND EXTEND 6" DI LINE LANE TO PROPERTY. CONSTRUCT 2' X 2' X 4" DEPTH CONCRETE PAD AROUND VALVE LID

GENERAL UTILITY NOTES

1. ALL SANITARY LINES ARE SUBJECT TO AIR TESTING, TELEVISION INSPECTION AND MANHOLE TESTING AS DESCRIBED IN THE CURRENT COR STANDARDS AND SPECIFICATIONS.
2. INSTALL JOINT RESTRAINTS FOR RESTRAINED JOINTS. MINIMUM LENGTH TABLE 1.46 (SHEET 17) APPLICABLE. SEE GENERAL NOTES, SHEET C1.1, FOR ADDITIONAL REQUIREMENTS FOR SANITARY SEWER AND WATER.
3. SANITARY SEWER INSTALLATION MAY USE CLASS 2V PIPE, COMPACTED 15% OF THEORETICAL MINIMUM PER ASDHO 158 FOR TRENCHES DEEPER THAN 8 FEET. SEE COR STD DWG 34 FOR DETAILS. OTHERWISE, USE CLASS 1P SMOCKLE.
4. NEW WATER SERVICES SHALL BE INSTALLED PER COR STD DWG 446. METER BOXES SHALL BE 15 INCHES MINIMUM FINISH SURFACE WITH PROPERTY TIGHT SIDEWALKS. THE STATION FOR THE WATER SERVICES IS AT THE TEE IN THE WATER MAIN.
5. PUBLIC WATER MAIN SHALL BE DUCTILE IRON AND CONSTRUCTED PER COR STD DWG 441. CLASS 1P SMOCKLE SHALL BE USED FOR ALL WATER MAIN INSTALLATION. PUBLIC SANITARY SEWER MAIN SHALL BE 24-30" AND CONSTRUCTED PER COR STD DWG 344.
6. CONSTRUCT SANITARY SEWER MANHOLES PER COR STD DWG 343. MANHOLES SHALL HAVE 40" ECCENTRIC CONE TOPS UNLESS OTHERWISE SPECIFIED.
7. ALL SANITARY SEWER SERVICE LATERALS SHALL BE 4" PVC 40' MIN. DIA. UNLESS OTHERWISE NOTED AND INSTALLED PER COR STANDARD DRAWING 342 (SEE DETAILS).
8. THE MINIMUM SLOPE FOR SANITARY SEWER LATERALS IS 0.25%.
9. STATION FOR SANITARY LATERALS IS AT TEE IN SEWER MAIN.
10. LATERAL DEPTH AT MAIN AND ELEV SHALL CONFORM TO COR STANDARDS.
11. SANITARY SEWER LATERALS SHALL CONFORM TO THE STANDARD.
12. PROPERTY SEWER CLEANOUT REQUIRED AT PROPERTY LINE OR BOUND BENCHMARK IF THESE ARE CONDUIT FOR ALL LATERALS.
13. POWER SERVICE SHOWN IN THESE CONSTRUCTION PLANS IS PRELIMINARY. ALL POWER VALVES AND CONDUIT TO BE INSTALLED PER FINAL POWER PLAN.
14. ALL PRECASTS TO BE LOCATED 2' FROM EDGE OF PILE, TOP OF ADJACENT TO BE LOCATED 2' FROM BACK OF WALK, TOP OF ADJACENT TO BE SET 3" ABOVE BACK OF WALK ELEVATION.



DATE:	
REVISION:	

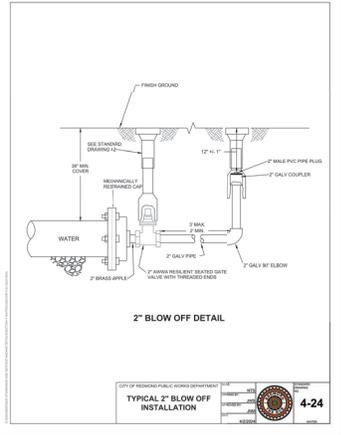
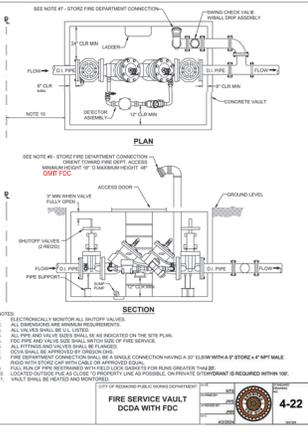


PROJECT: EAST REDMOND MANAGED CAMP
 PROJECT LOCATION: REDMOND, OR
 CLIENT: DESCHUTES CO., CITY OF REDMOND

SHEET TITLE: 21ST ST WATER MAIN PLAN AND PROFILE

JOB NO. 22-170
 DRAWN BY: MC
 DRAWING: C2.0

152: \\sawyer\proj\2022\22-170 - East Redmond Water Main\Drawings\C2.01-170 - 21ST ST WATER MAIN PLAN AND PROFILE.dwg, 8/17/2022, 12:54 PM - Matthew Cook

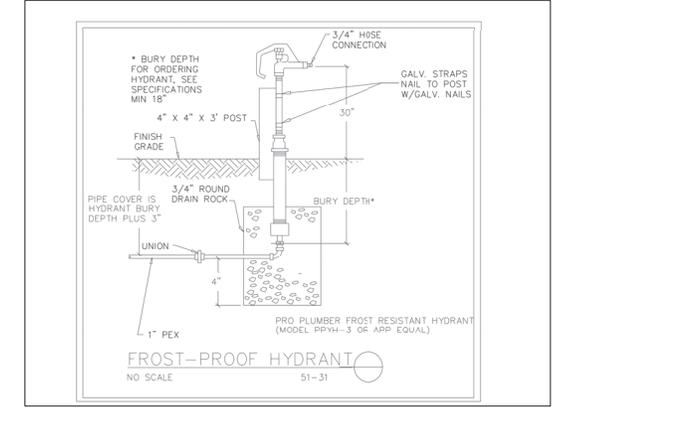
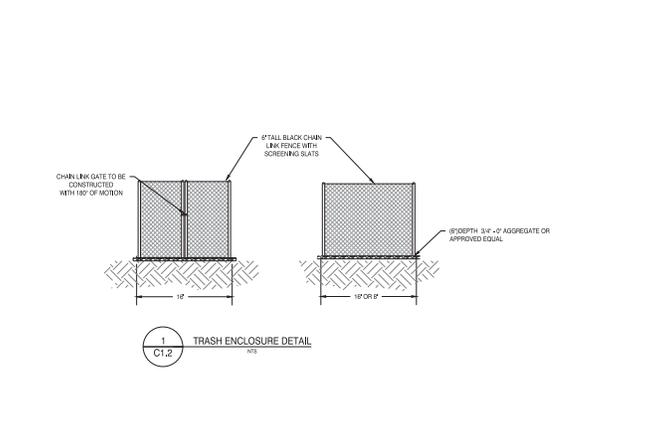
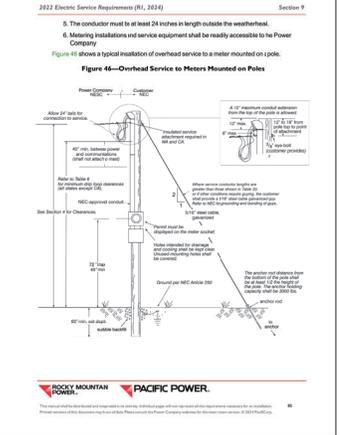


**LENGTH OF HORIZONTAL RESTRAINED
PIPE**

FITTING TYPE	PIPE SIZE					
	2"	4"	6"	8"	10"	12"
180° ELBOW	40"	40"	40"	40"	40"	40"
90° ELBOW	40"	40"	40"	40"	40"	40"
45° ELBOW	40"	40"	40"	40"	40"	40"
22.5° ELBOW	40"	40"	40"	40"	40"	40"
11.25° ELBOW	40"	40"	40"	40"	40"	40"
CAP	40"	40"	40"	40"	40"	40"

**STANDARD DUCTILE IRON
PIPE RESTRAINED LENGTH
TABLE**

4-28



DESIGNED BY
Hayes A. McCoy
DATE 12/13/24

DATE

REVISION

DATE 12/13/24

BY [Signature]

PROJECT
EAST REDMOND MANAGED CAMP

PROJECT LOCATION
REDMOND, OR

CITY
DESCHUTES CO., CITY OF REDMOND

SHEET TITLE
STANDARD DETAILS

JOB NO. 22-170
DRAWN BY MC
DRAWING
C3.2