

GENERAL NOTES

- ONE WEEK PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY URBAN DALE WATER UTILITY - #278-3940 URBAN DALE CITY ENGINEER - #278-3950
- CONTRACTOR SHALL PROVIDE ALL MATERIALS, BUT NOT LIMITED TO: PVC PIPES, HYDRANTS, HYDRANT RECEPTACLES ANCHORING FITTINGS, COUPLINGS, VALVES, TAPPING SLEEVE AND VALVE, VALVE BOXES AND ADAPTORS, PIPE FLANGES, PIPE PLUGS, CAPS, CORPORATION COCKS, SADDLES, FITTINGS, TRACER WIRE, POLYETHYLENE ENCASEMENT MATERIAL AND SERVICE PIPE. IN ADDITION, THE CONTRACTOR WILL FURNISH MISCELLANEOUS MATERIALS TO INCLUDE BUT NOT LIMITED TO SAND, GRAVEL, CONCRETE, ASPHALT, ETC.
- ALL PAVING AND SITE UTILITY IMPROVEMENTS SHALL COMPLY WITH THE CURRENT URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, INCLUDING THE CITY OF URBAN DALE SUPPLEMENTAL SPECIFICATIONS, WITH THE EXCEPTION TO THE WATER SECTION WHICH WILL BE REPLACED WITH THE CURRENT URBAN DALE WATER UTILITY'S STANDARD SPECIFICATIONS FOR WATER MAIN AND APPURTENANCES.
- EXTEND NEW SERVICES FROM NEW MAIN TO NEW STOP BOX. STOP BOX SHALL BE LOCATED IN S/W WITH NO SLEEVE.
- PROTECT EXISTING STORM INTAKES AND PIPING. MAINTAIN 18" CLEARANCE (MINIMUM) BETWEEN BOTTOM OF STM. PIPE AND TOP OF NEW MAIN.
- REMOVE AND REPLACE SIDEWALKS WHERE SIDEWALKS ARE SHOWN ON PLANS. PROTECT ALL SIDEWALKS NOT SHOWN TO BE REMOVED. EXCESS SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE CONTRACTOR'S EXPENSE. REFERENCE URBAN DALE'S STANDARD SIDEWALK AND DRIVEWAY APPROACH DETAIL IN THE SPECIAL PROVISIONS FOR SIDEWALK REPLACEMENT AT DRIVEWAY LOCATIONS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF AND PROTECT ALL UTILITIES AND STRUCTURES. DAMAGE TO UTILITIES AND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER, AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL PROTECT AND BACKFILL AROUND UNDERGROUND UTILITIES. BACKFILL SHALL BE IN 6-INCH LIFTS, COMPACTED TO 95% STANDARD PROCTOR DENSITY, 0 TO +4% MOISTURE.
- COMPLETE ALL PRESSURE AND DISINFECTION TESTS FOR WATER MAIN BEFORE THE INSTALLATION OF CORPORATION COCKS; AFTER MAIN HAS PASSED TESTS, INSTALL CORPORATION COCKS AND SERVICE LINES.
- PROVIDE COMPACTION TESTS ON ALL EXCAVATIONS AND STREET REPLACEMENTS IN ACCORDANCE WITH URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS. COMPACTION TESTS WILL BE MADE AT LEAST ONCE EVERY 500' OR AT THE DIRECTION OF THE WATER UTILITY. SUCCESSFUL COMPACTION TESTS ARE AT NO COST TO THE CONTRACTOR. CONTRACTOR TO PAY FOR ALL FAILED TESTS.
- PIPE MATERIALS: ANWMA C900 CLASS 150 PVC, INSTALL NO. 12 HIGH STRENGTH TRACER WIRE UNDER PIPE, BRING TRACER WIRE TO SURFACE AT FIRE HYDRANTS AND NEW DEAD ENDS IN TRACING WIRE RECEPTACLES. CONNECT NEW TRACER WIRE TO EXISTING WIRE. PROVIDE ANODE GROUNDING ROD WHEN REQUIRED.

GRADING

- ALL RESTORATION REQUIRED BY THE CONTRACTOR SHALL CONFORM TO THE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS. CONTRACTOR SHALL FINISH GRADE FOR SIDEWALK INSTALLATION. ALL SURFACE PREPARATION FOR SOD SHALL BE IN ACCORDANCE WITH THE SUDAS STANDARD SPECIFICATIONS. SOD WILL BE INSTALLED BY THE URBAN DALE WATER UTILITY.
- CONTRACTOR SHALL FINISH GRADE FOR SIDEWALK AT DRIVEWAYS TO MATCH THE EXISTING DRIVEWAY ELEVATIONS.
- CONTRACTOR SHALL CLEAN STREETS OF DIRT AND DEBRIS AT THE END OF EACH DAY.

TRAFFIC CONTROL

- PROVIDE ONE LANE TRAFFIC ON MARYLAND DRIVE, OLIVER SMITH DRIVE AND 68TH STREET FOR PUBLIC ACCESS. CONTRACTOR TO EXPEDITE WATER MAIN INSTALLATION AT ROAD CROSSING TO MINIMIZE ROAD CLOSURE. CROSSING THE ROAD SHALL BE COMPLETED IN ONE DAY. COORDINATE WITH WATER UTILITY AND CITY OF URBAN DALE.
- PROVIDE SIGNS, BARRICADES, FLASHER ARROWBOARD, CHANNELIZING DEVICES AND OTHER MISCELLANEOUS TRAFFIC CONTROL ITEMS AS SPECIFIED.
- AT END OF EACH WORKING DAY, PLACE BARRICADES AND LIGHTS AS REQUIRED; MAINTAIN LIGHTS IN OPERABLE CONDITION AS REQUIRED.
- MAINTAIN ACCESS TO PROPERTIES ALONG WATERMAIN ROUTE; PROVIDE ROCK FOR VEHICLE ACCESS. COST OF MAINTAINING ACCESS SHALL BE INCIDENTAL TO THE PROJECT.
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

MISCELLANEOUS

- RECONSTRUCTION OF RESIDENTIAL ACCESSES SHALL BE COORDINATED WITH PROPERTY OWNER BY THE CONTRACTOR SO THAT PROPERTY OWNER CAN PARK PERSONAL VEHICLES ON OR NEAR PERSONAL PROPERTY. CONTRACTOR WILL USE SPECIAL CONSTRUCTION TECHNIQUES FOR PROPERTY OWNERS WITH UNIQUE PROBLEMS E.G. HANDICAPPED, AGED, ETC.
- CONTRACTOR SHALL NOTIFY THE CITY A MINIMUM OF 48 HOURS PRIOR TO ANY STREET CLOSURES.
- ALL HOLES RESULTING FROM OPERATIONS OF THE CONTRACTOR, INCLUDING REMOVAL OF GUARDRAIL POSTS, FENCE POST, UTILITY POLES, OR FOUNDATION STUDIES, SHALL BE FILLED AND CONSOLIDATED TO FINISHED GRADE AS DIRECTED BY THE ENGINEER TO PREVENT FUTURE SETTLEMENT. THE Voids SHALL BE FILLED AS SOON AS PRACTICAL - PREFERABLY THE DAY CREATED AND NOT LATER THAN THE FOLLOWING DAY. ANY PORTION OF THE RIGHT-OF-WAY OR PROJECT LIMITS, INCLUDING BORROW AREAS AND OPERATION SITES, DISTURBED BY SUCH OPERATIONS SHALL BE RESTORED TO AN ACCEPTABLE CONDITION. THIS OPERATION SHALL BE CONSIDERED INCIDENTAL TO OTHER BID ITEMS IN THIS PROJECT.
- IN ORDER TO AVOID ANY UNNECESSARY SURFACE BREAKS OR PREMATURE SPALLING, THE CONTRACTOR IS CAUTIONED TO EXERCISE EXTREME CARE WHEN PERFORMING ANY OF THE NECESSARY SAW-CUTTING OPERATIONS FOR THE PROPOSED PAVEMENT REMOVAL.
- ALL TREES, TREE ROOTS, SHRUBS AND LANDSCAPING ARE TO BE PROTECTED DURING CONSTRUCTION. TUNNELING THRU LARGE TREE ROOTS WILL BE REQUIRED AS NOTED ON THE PLANS TO PREVENT ROOT DAMAGE. TREES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT DISTURB DESIRABLE GRASS AREAS AND DESIRABLE TREES OUTSIDE THE CONSTRUCTION LIMITS. THE CONSTRUCTION SHALL BE CONFINED TO WITHIN THE EXISTING ROW AND DESIGNATED TEMPORARY EASEMENTS. ALL TREES AND SHRUBS OUTSIDE THE RIGHT-OF-WAY LIMITS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH OF-KIND MATERIAL OR BETTER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING ALL TREES AND WARRANTING THE REPLACEMENT VEGETATION FOR UP TO ONE YEAR.

ESTIMATED PROJECT QUANTITIES			
NO.	ITEM	UNIT	BASE BID TOTAL
1	8" PVC PIPE, OPEN CUT	LF	2381
2	CONNECTION #1 - OLIVER SMITH DRIVE & MARYLAND DRIVE - CONNECTION IN NW CORNER	LS	1
3	CONNECTION #2 - 72ND STREET & MARYLAND DRIVE - CONNECTION IN SW CORNER	LS	1
4	CONNECTION #3 - 72ND STREET & MARYLAND DRIVE - CONNECTION IN NE CORNER	LS	1
5	CONNECTION #4 - 70TH STREET & MARYLAND DRIVE - CONNECTION IN NW CORNER	LS	1
6	CONNECTION #5 - 70TH STREET & MARYLAND DRIVE - CONNECTION IN NE CORNER	LS	1
7	CONNECTION #6 - 68TH STREET & MARYLAND DRIVE - CONNECTION IN NE CORNER	LS	1
8	ABANDONMENT #1 - OLIVER SMITH DRIVE & MARYLAND DRIVE - ABANDONMENT IN NW CORNER	LS	1
9	ABANDONMENT #2 - 72ND STREET & MARYLAND DRIVE - ABANDONMENT IN SW CORNER	LS	1
10	ABANDONMENT #3 - 72ND STREET & MARYLAND DRIVE - ABANDONMENT IN NE CORNER	LS	1
11	ABANDONMENT #4 - 70TH STREET & MARYLAND DRIVE - ABANDONMENT IN NW CORNER	LS	1
12	ABANDONMENT #5 - 70TH STREET & MARYLAND DRIVE - ABANDONMENT IN NE CORNER	LS	1
13	ABANDONMENT #6 - 68TH STREET & MARYLAND DRIVE - ABANDONMENT IN NE CORNER	LS	1
14	HYDRANT - REMOVAL	EA	2
15	HYDRANTS - ASSEMBLY, VALVE, ANCHORING TEE, VALVE BOX AND HYDRANT	EA	5
16	1" COPPER WATER SERVICE CONNECTION, NEAR SIDE, WITH CURB BOX	EA	22
17	1" COPPER WATER SERVICE CONNECTION, FAR SIDE, NEW CURB BOX	EA	22
18	REMOVAL OF 6" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT WITH 2" ASPHALT OVERLAY	SY	72
19	7" NONREINFORCED PORTLAND CEMENT CONCRETE PAVEMENT WITH 2" ASPHALT OVERLAY	SY	72
20	REMOVAL OF PORTLAND CEMENT CONCRETE DRIVEWAY, 5"	SY	270
21	DRIVEWAY, PORTLAND CEMENT CONCRETE, 6"	SY	270
22	CURB AND GUTTER, PORTLAND CEMENT CONCRETE, 6"	LF	78
23	REMOVAL OF SIDEWALK, 4"	SY	1050
24	SIDEWALK, PC CONCRETE, 6"	SY	252
25	SIDEWALK, PC CONCRETE, 4"	SY	1153
26	DETECTABLE WARNING PANELS	SF	80
27	SURVEY	LS	1
28	TRAFFIC CONTROL	LS	1

MISCELLANEOUS NOTES CONTINUED

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE WASTE AREAS OR DISPOSAL SITES FOR EXCESS MATERIAL WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK INVOLVED ON THIS PROJECT (EXCAVATED MATERIAL, BROKEN CONCRETE OR BORING SLURRY). NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES.
- IF PUBLIC UTILITY FIXTURES ARE ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES, UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.
- THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK OR SERVICE VEHICLES AND EQUIPMENT OUTSIDE THE CONSTRUCTION LIMITS (PUBLIC ROW) OR USE THESE AREAS FOR STORAGE OF MATERIALS, STORAGE, PARKING AND SERVICE AREAS) SHALL BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
- ALL APPURTENANCES THAT ARE REMOVED SHALL BE RETURNED TO URBAN DALE WATER UTILITY, IE. VALVE LIDS AND HYDRANTS.
- DEPTHS FOR ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR.
- ALL STREET SIGNS REMOVED SHALL BE IN PUBLIC RIGHT-OF-WAY. INCIDENTAL COST TO BE INCLUDED WITH OTHER BID ITEMS. STREET SIGNS SHALL BE REPLACED AFTER THE CONSTRUCTION PROJECT IS COMPLETED.
- MATERIAL STORAGE FOR THE PROJECT SHALL BE IN THE ST. STEPHEN LUTHERAN CHURCH, 3510 72ND STREET, WEST CORNER OF THE PARKING LOT CLOSEST TO OLIVER SMITH DRIVE AND MARYLAND DRIVE RIGHT OF WAY. ALL MATERIAL AND EQUIPMENT MUST BE REMOVED FROM THE MATERIAL STORAGE AREA FROM JULY 1, 2021 THRU JULY 5, 2021. ALL PARKING LOT SURFACES DAMAGED DUE TO MATERIAL STORAGE AND/OR CONSTRUCTION ACTIVITY SHALL BE REPLACED OR REPAIRED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- C-4 CONCRETE WILL BE REQUIRED FOR ALL PAVING.
- SOIL EROSION CONTROL SHALL BE REQUIRED. THE INSTALLATION OF SILT SOCKS AND/OR INTAKE BASKETS SHALL BE INSTALLED ACCORDING TO SUDAS PRACTICES. EROSION CONTROL SHALL BE INCIDENTAL TO THE PROJECT.
- ALL CONCRETE SAW CUTTING SLURRY SHALL BE CONTAINED AND NOT ALLOWED TO ENTER STORM DRAIN.

ABAN.	ABANDON	P/L	PROPERTY LINE
ACC.	ASPHALT CEMENT CONCRETE	PVC	POLYVINYL CHLORIDE PIPE
APP.	APPROACH	RED.	REDUCER
ASPH.	ASPHALT	REM.	REMOVE
ASSBLY.	ASSEMBLY	REPL.	REPLACE
AVE.	AVENUE	ROW	RIGHT-OF-WAY
BOC	BACK OF CURB	SAN.	SANITARY
CIR.	CIRCLE	SB	STOP BOX
CONC.	CONCRETE	SERV.	SERVICE
CORP.	CORPORATION	SGNL.	SIGNAL
COUP.	COUPLING	ST.	STREET
DEC.	DEGREE	STA.	STATION
DR.	DRIVE	STM.	STORM SEWER
D/W	DRIVEWAY	S/W	SIDEWALK
EA.	EACH	SWR.	EDGE OF PAVEMENT
EOP	EDGE OF PAVEMENT	TELE.	ELEVATION
ELEV.	ELEVATION	TEMP.	ELECTRIC
ELEC.	ELECTRIC	TS&V	EQUIPMENT
EQUIP.	EQUIPMENT	EXISTING	EXISTING
EX.	EXISTING	G	GAS
G	GAS	GRD.	GROUND
GRD.	GROUND	GS	GAS SERVICE
GS	GAS SERVICE	GVL.	GRAVEL
GVL.	GRAVEL	HYD.	FIRE HYDRANT
HYD.	FIRE HYDRANT	LF	LINEAR FEET
LF	LINEAR FEET	MJ	MECHANICAL JOINED
MJ	MECHANICAL JOINED	MANH.	MANHOLE
MANH.	MANHOLE	OVLY.	OVERLAY
OVLY.	OVERLAY	PAVT.	PAVEMENT
PAVT.	PAVEMENT	PED.	PEDESTRIAN
PED.	PEDESTRIAN		

ABBREVIATIONS AND LEGEND

---	8" W	WATER LINE & SIZE
----	3" G	GAS LINE & SIZE
---	5" STM.	STORM SEWER LINE & SIZE
---	8" SAN.	SANITARY SEWER LINE
---	ELEC	BURIED ELECTRIC LINE
---	TELE.	BURIED TELEPHONE CABLE
---		CENTER LINE
---	P/L	PROPERTY LINE
---	ROW	ROW
---	EOP	EDGE OF PAVEMENT
---	WS	WATER SERVICE LINE
---	GS	GAS SERVICE LINE
⊗		STOP BOX
→		GUY ANCHOR
⊠		CATCH BASIN
— —		FENCE
○		ELECTRIC POLE
★		TRAFFIC LIGHT POLE
S		STREET SIGN
▨		SURFACE REPLACEMENT
☁ / ☁		TREE / BUSHES
(MH)		MANHOLE
MB		MAILBOX

UTILITY CONTACTS

- SCOT ENGER
MIDAMERICAN ENERGY
(GAS AND ELECTRIC)
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- ROB LIGHT, SYSTEMS SUPERVISOR
URBAN DALE WATER UTILITY
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URBAN DALE, IOWA 50322
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