

CITY OF GENEVA
LAWN STREET WATERLINE REPLACEMENT
SWAN STREET TO LOCKWOOD STREET
ASHTABULA COUNTY, OHIO
OPWC FUNDED PROJECT NO. CG14AC/CG15AC

DECEMBER 2025

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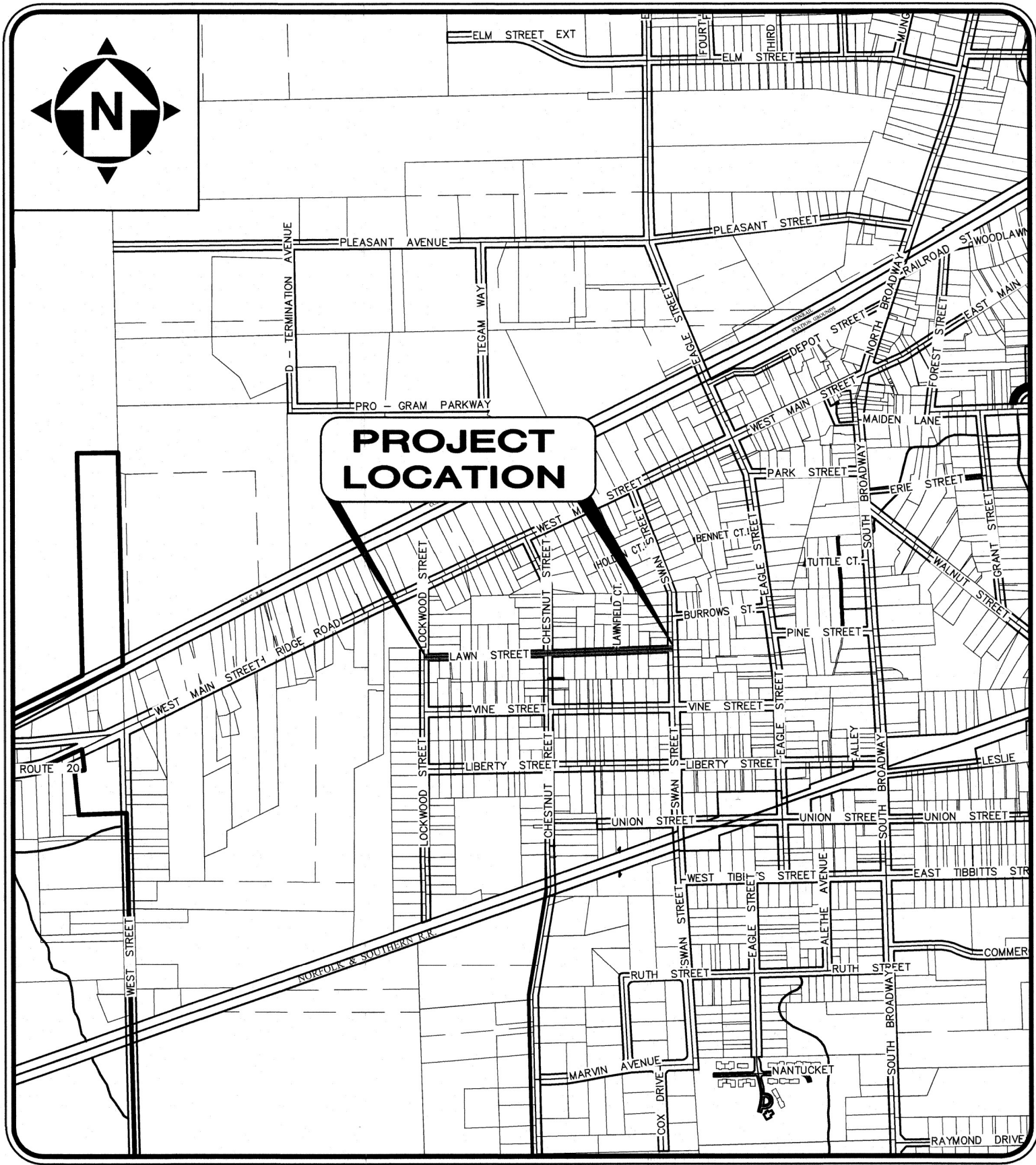
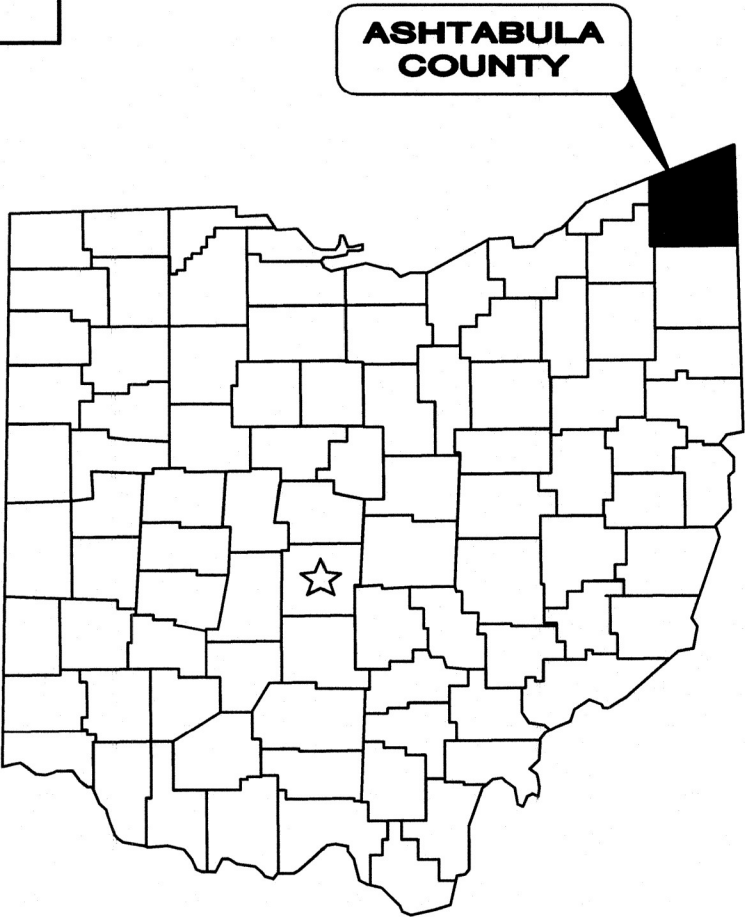
UNDERGROUND UTILITIES

CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG

CALL
1-800-362-2764
(TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE
SERVICE CALL: 1-800-925-0988



LOCATION MAP
NOT TO SCALE



MEMBERS OF COUNCIL

- JOHN BARBOPRESIDENT
ROBERT ROSEBRUGHVICE PRESIDENT
WILLIAM BAKERMEMBER
JEFFREY GRIFFITHSMEMBER
JOHN TRAVISMEMBER
BRADLEY MACMICHEALMEMBER
DANA SCHENKMEMBER
PHYLLIS A. DUNLAPCOUNCIL CLERK

1. THE SURVEY SHOWN ON THESE PLANS WAS OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR ANY OTHER PURPOSE.
2. UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
3. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.

Gene Hill
LENE HILL
P.E. No. 66017

12/3/25
DATE

1.0 GENERAL

- 1.01 THE WORK CONTEMPLATED UNDER THIS CONTRACT COMPRISES THE FURNISHING AND INSTALLATION OF A WATER MAIN COMPLETE WITH VALVES, OTHER APPURTENANCES, AND THE PERFORMANCE OF OTHER INCIDENTAL WORK.
- THE CONTRACTOR WILL DO ALL OF THE WORK AND FURNISH ALL OF THE LABOR AND MATERIALS NECESSARY FOR THE FINAL COMPLETION OF THIS CONTRACT IN THE MANNER AND UNDER THE CONDITIONS HEREIN SPECIFIED AND PROVIDED AND IN ACCORDANCE WITH THE CONTRACT DRAWINGS.
- 1.02 ACCESS TO ALL DRIVEWAYS WILL BE MAINTAINED AT ALL TIMES EXCEPT THE TIME WHEN WATER MAIN INSTALLATION AND PAVEMENT REPLACEMENT WILL NOT PERMIT.
- 1.03 IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE LOCAL ACCESS, VEHICULAR AND PEDESTRIAN, TO ALL PROPERTIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR WILL FURNISH, MAINTAIN AND SUBSEQUENTLY REMOVE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, BARRIERS, TEMPORARY PAVEMENT, LIGHTING, FLAGGERS, SIGNING AND OTHER TRAFFIC CONTROLS TO INSURE THE SAFETY OF PERSONS AND VEHICLES DURING CONSTRUCTION WITHIN THE PROJECT LIMITS.
- MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND THE OHIO MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS – REVISION 20.
- 1.04 THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING A SITE FOR DISPOSAL OF ALL EXCAVATED MATERIAL THAT IS UNSUITABLE FOR USE AS BACKFILL AND ALL OTHER EXCESS EXCAVATED MATERIALS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE LOCATION OF THE DISPOSAL SITE AND WRITTEN PERMISSION FOR USE OF THE SITE FROM THE PROPERTY OWNER. THE COST FOR SECURING AND MAINTAINING THE DISPOSAL SITE WILL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS IN THE BID PROPOSAL.
- 1.05 ALL OVER-THE-ROAD VEHICLES USED ON THE PROJECT BY ALL CONTRACTORS AND SUBCONTRACTORS WILL BE CLEARLY MARKED SHOWING ITS COMPANY AFFILIATION.
- 1.06 ALL SHOP DRAWINGS WILL BE SUBMITTED TO THE ENGINEER FOR PRELIMINARY CHECKING. THE ENGINEER SHALL FORWARD THE CHECKED SHOP DRAWINGS TO THE OWNER FOR FINAL CHECKING AND APPROVAL. SHOP DRAWINGS MUST BE APPROVED PRIOR TO ORDERING ANY MATERIALS.
- 1.07 THE CONTRACTOR IS TO TAKE CARE DURING EXCAVATION, PIPE INSTALLATION AND BACKFILLING, IN AREAS IMMEDIATELY ADJACENT TO TREES, TO MINIMIZE THE DISTURBANCE OF ROOT SYSTEM AND TREE LIMBS. THE COST OF ANY EXTRA EFFORT SUCH AS HAND EXCAVATION IS TO BE INCLUDED IN THE UNIT PRICE BID FOR PIPE INSTALLATION.

2.0 EXCAVATION, BACKFILL AND COMPACTION

- 2.01 ALL EXCAVATION WILL BE CONSIDERED UNCLASSIFIED, NO ADDITIONAL COMPENSATION WILL BE ALLOWED THE CONTRACTOR FOR ROCK OR SHALE EXCAVATION.
- 2.02 ALL BACKFILL WILL BE AS DESCRIBED IN SPECIFICATION SECTIONS 312323.13 “COMPACTED BACKFILL” AND 312323.14 “COMPACTED GRANULAR BACKFILL.”
- THE OWNER AND THE ENGINEER DO NOT GUARANTEE THE IN-SITU MATERIAL TO BE EXCAVATED WILL BE SUITABLE OR IN ITS PRESENT STATE WILL CONSIST OF THE PROPER MOISTURE CONTENT TO ACHIEVE THE COMPACTION REQUIREMENTS. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE BACKFILL MATERIAL HE WILL USE. UPON REQUEST, THE OWNER WILL PROVIDE ACCESS TO THE SITE FOR THE CONTRACTOR TO CONDUCT SUCH INVESTIGATION AND TESTS DEEMED NECESSARY TO MAKE HIS DETERMINATION. NO EXTRA PAYMENT WILL BE MADE TO DISPOSE OF UNSUITABLE MATERIAL OR FURNISH AND PLACE SUITABLE MATERIAL MEETING THE REQUIREMENTS OF SECTIONS 312323.13 “COMPACTED BACKFILL” AND 312323.14 “COMPACTED GRANULAR BACKFILL.”
- 2.03 SLAG PRODUCTS WILL NOT BE PERMITTED FOR BEDDING, BACKFILL, OR TRAFFIC COMPACTED SURFACE.
- 2.04 ALL UTILITY LINES CROSSING THE NEW WATERLINE TRENCH, (I.E. STORM SEWERS, SANITARY SEWERS, GAS MAINS, GAS SERVICE CONNECTIONS, UNDERGROUND OCT CONDUITS, CABLE TV LINES) SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS OR REMOVED AND REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. NO ADDITIONAL COMPENSATION WILL BE PAID FOR THE ABOVE WORK UNLESS ANY OF THE ABOVE UTILITIES ARE ENCOUNTERED AND NOT SHOWN ON THE DRAWINGS.
- 2.05 ANY COMPACTION TESTING REQUIRED AT THE SOLE DISCRETION OF THE CITY ENGINEER SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
- 2.06 THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND MANAGEMENT OF ALL GROUNDWATER AND SURFACE WATER AS NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. ALL CONDUIT SHALL BE INSTALLED IN A DRY AND STABLE TRENCH.

3.0 WATER WORKS

- 3.01 ANY AND ALL CONSTRUCTION OF WATER MAIN FACILITIES REQUIRED BY THIS PROJECT IS TO BE GOVERNED BY THE DRAWINGS AND SPECIFICATIONS FOR THIS JOB.

- 3.02 ALL WATER MAINS ON THIS PROJECT WILL BE LAID AT THE ELEVATIONS AND GRADES SHOWN ON THE DRAWINGS. HIGH POINTS IN THE WATER MAIN MUST OCCUR AT THE STATIONED HYDRANT TEE LOCATIONS OR AIR VENT ASSEMBLY.
- 3.03 ALL FITTINGS, INCLUDING BENDS, TEES, OFFSETS, REDUCERS, AND PLUGS WILL BE RESTRAINED WITH MEGALUG MECHANICAL JOINT RESTRAINTS AS MANUFACTURED BY EBAA OR APPROVED EQUAL. THE RESTRAINT SHALL BE 2000PV SERIES FOR PVC. ALL PIPE JOINTS WITHIN THE RESTRAINING DISTANCES SHOWN ON THE PLANS SHALL BE RESTRAINED. THRUST BLOCKS WILL NOT BE PERMITTED.
- 3.04 ALL BOLTS UTILIZED ON THE WATER MAIN IMPROVEMENTS SHALL HAVE ZINC ANODE PROTECTOR CAPS. COST FOR FINISHING AND PLACING CAPS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR WATER MAIN ITEMS.
- 3.05 THE OWNER SHALL PROVIDE WATER FOR FLUSHING AND FILLING THE NEW WATER MAIN WITHOUT COST TO THE CONTRACTOR FOR THE INITIAL FILLING OPERATION. ALL WATER FOR ANY SUBSEQUENT FLUSHING OPERATIONS WILL BE PAID FOR BY THE CONTRACTOR.
- 3.06 AFTER SATISFACTORY HYDROSTATIC TESTING, THE COMPLETED WATER WORK SHALL BE DISINFECTED. DISINFECTING PROCEDURES MUST MEET OR EXCEED AWWA C651.
- 3.07 LOCATION OF STERILIZATION AND TESTING CONNECTIONS AT VALVES SHALL BE AS DIRECTED BY THE OWNER AND ALL COSTS ASSOCIATED WITH PLACING AND UTILIZING SAID STERILIZATION AND TESTING CONNECTIONS WILL BE INCLUDED IN THE PRICE BID PER LINEAL FOOT OF THE WATER MAINS. THE CITY WILL PROVIDE THE INITIAL TESTING AT NO COST TO THE CONTRACTOR. THE CONTRACTOR WILL BE CHARGED FOR ADDITIONAL TESTING DUE TO FAILED RESULTS.
- 3.08 THE PROPOSED WATER MAIN WILL HAVE 5’-0” MINIMUM COVER, UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE PLANS.
- 3.09 ALL VALVE BOXES, ETC. WILL BE SET AS SHOWN ON THE PLANS. RIMS WILL BE RAISED OR LOWERED AND BOXES PLUMBED BY THE CONTRACTOR AS REQUIRED TO MEET PROPOSED OR EXISTING GRADE.
- 3.10 BACKFILL OF WATER MAIN TRENCHES SHALL BE IN ACCORDANCE WITH THE TRENCHING, EMBEDMENT AND BACKFILL AS SHOWN IN THE PLANS.
- 3.11 ALL EXISTING WATER SYSTEM VALVES SHALL BE OPERATED BY THE OWNER. THE CONTRACTOR SHALL SCHEDULE WITH THE OWNER 24 HOURS IN ADVANCE.
- 3.12 A MINIMUM OF 35 PSI SHALL BE MAINTAINED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
- 3.13 BOOSTER PUMPS WILL NOT BE PERMITTED ON SERVICE CONNECTIONS.
- 3.14 SPECIAL CARE AND HANDLING OF EXISTING HYDRANTS SHALL BE MAINTAINED AT ALL TIMES. REMOVAL OF EXISTING HYDRANTS SHALL INCLUDE THE HYDRANT ASSEMBLY, WATCH VALVE, EXTENSIONS, BENDS, REDUCERS AND ALL APPURTENANCES TO THE WATCH VALVE IN THE HYDRANT LEAD AND CAPPING OF THE HYDRANT LEAD AFTER REMOVAL OF THE EXISTING WATCH VALVE. THE EXISTING HYDRANT WILL NOT BE TAKEN OUT OF SERVICE UNTIL ALL NEW HYDRANTS ARE OPERATIONAL.
- 3.15 ALL REMOVED HYDRANTS SHALL BECOME THE PROPERTY OF THE OWNER. REMOVED HYDRANTS ARE TO BE DELIVERED TO A STORAGE AREA DESIGNATED BY THE OWNER.
- 3.16 FOR THOSE CONNECTIONS THAT DO NOT HAVE AN OUTSIDE METER VAULT THE SERVICE CONNECTIONS SHALL INCLUDE A CURB STOP AND BOX. FOR CONNECTIONS THAT HAVE AN OUTSIDE METER VAULT AND AT THE DISCRETION OF THE OWNER IF THE EXISTING METER VAULT IS TO REMAIN, THE NEW SERVICE IS TO BE CONNECTED TO THE EXISTING YOKE/IDLER INSIDE THE VAULT. THE OWNER MAY DIRECT THAT THE METER VAULT, COVER AND YOKE/IDLER BE REPLACED. A CONTINGENCY LINE ITEM FOR REPLACEMENT IS IN BID ITEMS. IF THE METER VAULT, COVER AND YOKE/IDLER IS REPLACED THE OWNER WILL SUPPLY A METER OR DIRECT THAT THE EXISTING METER BE UTILIZED
- 3.17 SERVICE CONNECTIONS SHALL BE TYPE K COPPER. ALL SERVICE FITTINGS SHALL BE BRASS, COMPRESSION-TYPE FITTINGS. ALL TAPPING SADDLES SHALL BE BRASS, NO EPOXY COATED TAPPING SADDLES WILL BE PERMITTED.
- 3.18 THE SYSTEM SHALL BE DESIGNED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI (140 KPA) AT GROUND LEVEL AT ALL POINTS IN THE DISTRIBUTION SYSTEM UNDER ALL CONDITIONS OF FLOW.

4.0 EXISTING UTILITIES

- 4.01 THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE OWNER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.
- 4.02 WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME WORK IS GOING ON ADJACENT TO THE POLE.
- 4.03 DELAYS TO THE CONTRACTOR AS A RESULT OF TIMING OF POLE RELOCATION OR PROTECTION SHALL NOT BE CONSIDERED COMPENSABLE DELAYS, AS IT SHALL BE THE CONTRACTOR’S RESPONSIBILITY TO COORDINATE HIS WORK IN CONFORMANCE TO THE UTILITY COMPANY’S SCHEDULE.
- 4.04 CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL THE EXISTING GAS, WATER, ELECTRIC, CABLE, TELEPHONE, SANITARY OR OTHER UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF ANY PROPOSED IMPROVEMENT INDICATED ON THE PLANS. SHOULD A CONFLICT EXIST AT A UTILITY CROSSING, THE PROJECT ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- THE CONTRACTOR SHALL ANTICIPATE ONE SERVICE CONNECTION FOR EACH UTILITY SHOWN TO EACH PROPERTY.

- 4.05 BEFORE ANY WORK IS STARTED, THE CONTRACTOR SHALL CALL THE “OHIO UTILITIES PROTECTION SERVICE”, AT 1-800-362-2764, AND “OIL & GAS PRODUCERS UNDERGROUND PROTECTIVE SERVICE”, AT 1-800-925-0988, FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE OWNER, TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE OWNER, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS.
- 4.06 THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY FACILITIES ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF THE FIELD SURVEY IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF THE EXISTING UTILITY OWNERS AND UTILITY PROTECTION SERVICE LISTED BELOW IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE.

THE FOLLOWING IS BELIEVED TO BE THE LIST OF UTILITY OWNERS AND GOVERNING AUTHORITIES WITHIN THE LIMITS OF CONSTRUCTION:

COGENT COMMUNICATIONS (877) 726-4368 www.cogentco.com	CITY OF GENEVA WATER DEPARTMENT (440) 466-4549 www.genevaoohio.com
FIRST ENERGY 1-800-589-3101 www.firstenergycorp.com	CITY OF GENEVA STREETS DEPARTMENT (440) 466-2921 www.genevaoohio.com
GREAT WAVE COMMUNICATIONS 1-440-593-7100 www.greatwavecom.com	CITY OF GENEVA WASTEWATER DEPARTMENT (440) 466-4228 www.genevaoohio.com
	ENBRIDGE GAS COMPANY 1-800-521-1900 www.enbridgegas.com
	WINDSTREAM (501) 748-4433 www.windstream.com

- 4.07 GAS SERVICE CONNECTIONS AND SEWER LATERALS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL LOCATE AND PROTECT CONNECTIONS AND LATERALS DURING CONSTRUCTION AND REPAIR ANY DAMAGE DUE TO CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR LOCATION, PROTECTION, AND/OR REPAIR.
- 4.08 ENBRIDGE GAS OHIO WILL NOT BE LIABLE FOR NOR ACCEPT ANY CONTRACTOR DELAY COSTS THAT THE COMPANY HAS NOT HAD AN OPPORTUNITY TO REVIEW, DISPUTE AND/OR RESOLVE.

5.0 GRASS RESTORATION

- 5.01 GRASS AREAS TO BE RESTORED SHALL BE SEEDED UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS.
- 5.02 SEEDING AND/OR SODDING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 329200.19 “SEEDING AND MULCHING” OF THE DETAILED SPECIFICATIONS.
- 5.03 ALL GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY SEEDING AND MULCHING RATHER THAN SODDING UNLESS OTHERWISE SHOWN ON PLANS, DETAILS, OR SPECIFICATIONS.
- 5.04 SEEDING AND MULCHING OF ALL DISTURBED AREAS SHALL IMMEDIATELY FOLLOW EXCAVATION AND WATERLINE INSTALLATION OPERATIONS. IN NO CASE SHALL THE LENGTH OF THE UNSEEDED AREA ALONG THE PROJECT BE GREATER THAN 200 FEET. THE ONLY EXCEPTION TO THIS SHALL BE DURING WINTER WEATHER CONDITIONS.

6.0 DRAINAGE, SOIL EROSION, SEDIMENT AND DUST CONTROL

- 6.01 ALL SWALES, OR DITCHES DISTURBED OR DESTROYED BY THE CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- 6.02 POSITIVE DRAINAGE OF ALL CONSTRUCTION AREAS SHALL BE MAINTAINED AT ALL TIMES.
- 6.03 THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE ASHTABULA COUNTY SOIL AND WATER CONSERVATION DISTRICT.
- 6.04 THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY, SUCH AS CALCIUM CHLORIDE, WATER OR A MOTORIZED DUST-FREE STREET SWEEPING DEVICE, AS DIRECTED BY THE ENGINEER, TO MAINTAIN ALL PAVED AREAS AFFECTED BY THE CONSTRUCTION.

7.0 TREE PROTECTION

- 7.01 SPECIAL CARE SHALL BE TAKEN TO AVOID DAMAGE TO TREES AND THEIR ROOT SYSTEM. THE OPERATION OF ALL EQUIPMENT, PARTICULARLY WHEN EMPLOYING BOOMS, THE STORAGE OF MATERIALS AND THE DISPOSITION OF EXCAVATED MATERIALS SHALL BE CONDUCTED IN A MANNER WHICH WILL NOT INJURE TREES, TRUNKS, BRANCHES OR THEIR ROOTS UNLESS SUCH TREES ARE DESIGNATED BY THE ENGINEER FOR REMOVAL.

8.0 MONUMENT PROTECTION

- 8.01 PROPERTY PINS AND MONUMENTS ALONG THE ROUTE OF THE IMPROVEMENT, WHICH MAY BE DISTURBED BY THE CONTRACTOR, SHALL BE REFERENCED BY A PROFESSIONAL SURVEYOR, SO THEY CAN BE REPLACED IN THE EVENT THAT THEY ARE DISTURBED DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL PINS, MONUMENTS AND REFERENCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF LOCATING AND REFERENCING AND REPLACING THE PROPERTY PINS AND MONUMENTS.

9.0 MAILBOXES, FENCES, NEWSPAPER BOXES OR STREET SIGNS AND SUPPORTS

- 9.01 WHEN MAILBOXES, FENCES, NEWSPAPER BOXES OR STREET SIGNS AND SUPPORTS INTERFERE WITH CONSTRUCTION, THE CONTRACTOR SHALL REMOVE AND ERECT THEM IN A TEMPORARY LOCATION DURING CONSTRUCTION (EXCEPT FENCES). AFTER COMPLETION OF THE CONSTRUCTION AND BEFORE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL ERECT THE MAILBOXES, FENCES, NEWSPAPER BOXES OR STREET SIGNS AND SUPPORTS IN A PERMANENT LOCATION IN ACCORDANCE WITH THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE WORK SHALL BE INCLUDED IN THE UNIT PRICES BID FOR OTHER ITEMS.

10.0 RESTORATION

- 10.01 THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATION AND RESTORE ALL SURFACES, STRUCTURES, DITCHES AND PROPERTY TO ITS ORIGINAL CONDITION. ANY DITCHES DISTURBED DURING CONSTRUCTION SHALL BE REGRADED BY THE END OF THE SAME WORK DAY.
- 10.02 ALL EXISTING STORM SEWER FACILITIES, INCLUDING TILE, DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED, REPLACED OR RECONNECTED TO THE EXISTING OR PROPOSED SYSTEM. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK. THE CONTRACTOR SHALL INCLUDE THE COST OF SUCH WORK IN THE UNIT PRICE FOR OTHER RELATED ITEMS OF WORK.
- 10.03 RESTORATION SHALL INCLUDE SEEDING AND MULCHING OF DISTURBED AREAS, RESTORATION OF EXISTING DRIVES AND FINAL CLEAN UP.

11.0 MATERIAL STORAGE

- 11.01 ALL EXCAVATED MATERIAL AND ALL MATERIAL USED IN CONSTRUCTION OF THE WORK SHALL BE STORED IN A MANNER THAT WILL NOT ENDANGER THE WORK AND THAT WILL LEAVE DRIVEWAYS, HYDRANTS UNDER PRESSURE, VALVE PIT COVERS, VALVE BOXES, CURB STOP BOXES OR OTHER UTILITY CONTROLS UNOBSTRUCTED AND ACCESSIBLE WHILE THE WORK IS BEING COMPLETED. GUTTERS SHALL BE KEPT CLEAR AND MAINTAINED AT ALL TIMES OR OTHER SATISFACTORY PROVISIONS SHALL BE MADE FOR STREET DRAINAGE. NATURAL DRAINAGE COURSES SHALL NOT BE OBSTRUCTED. DURING THE PROGRESS OF WORK, ALL MATERIALS SHALL BE KEPT TRIMMED UP AND MAINTAINED IN A NEAT MANNER.
- 11.02 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL TREES, STUMPS, BROKEN PAVEMENT AND ALL CONSTRUCTION DEBRIS OF WHATEVER NATURE OUTSIDE THE WORK LIMITS OF THE PROJECT. NO EXTRA PAYMENT WILL BE MADE BY THE OWNER FOR THE REMOVAL AND DISPOSAL OF DEBRIS.

12.0 PIPE MATERIALS



- 12.01 WATERLINE – AWWA C909 JOINTS – D 2122
- FITTINGS – ANSI C153 COMPACT WITH MECHANICAL JOINTS
- WATER SERVICE LATERALS – 1 INCH TYPE K COPPER
- HYDRANT – EAST JORDAN IRON WORKS (EJIW) HYDRANT WITH TWO 2 1/2” NST THREADS AND ONE 5” STORZ NOZZLE; ONLY STORZ WILL BE ACCEPTED. HYDRANTS SHALL BE POSITIONED SUCH THAT STEAMER NOZZLES POINT TOWARD THE STREET.
- STORM SEWER – 12” AND UNDER SHALL BE PVC SDR 35 PER ODOT 707.45
- SANITARY SEWER – SHALL BE PVC SDR 26 ASTM D3034

13.0 MATERIAL TESTING

- 13.01 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MATERIAL AND EQUIPMENT TESTING. THE OWNER MAY REQUIRE SUBGRADE COMPACTION TESTING AND CONCRETE QUALITY CONTROL TESTING WHICH WILL BE PAID FOR BY THE CONTRACTOR.

14.0 DEWATERING

- 14.01 ALL DEWATERING FLOWS ARE TO BE SETTLED IN SILTATION BASINS OR DIRECTED THROUGH FILTERING DEVICES BEFORE DISCHARGE TO STABILIZED SITES, SUCH AS STREAMS OR STORM SEWERS; NOT ONTO EXPOSED SOILS, STREAM BANKS, OR ANY OTHER SITE WHERE THE FLOW COULD CAUSE EROSION.
- 14.02 SILT FROM CONSTRUCTION OPERATIONS SHALL NOT BE PERMITTED TO ENTER THE STORM SEWER SYSTEM. WHEN CONSTRUCTION OCCURS NEAR STORM SEWER INLETS, EROSION CONTROL MEASURES SUCH AS INLET FILTERS AND HAY BALES SHALL BE USED TO PREVENT SILT FROM ENTERING THE STORM SEWERS.
- 14.03 CONVEY WATER FROM THE CONSTRUCTION SITE IN A CLOSED CONDUIT. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.

 	NO	REVISION	DATE	<div>CITY OF GENEVA ASHTABULA COUNTY, OHIO</div> <div>LAWN STREET WATERLINE REPLACEMENT SWAN STREET TO LOCKWOOD STREET</div>	ISSUED FOR:	BID SET	<div>GENERAL NOTES</div>	PROJECT NO.	
					ISSUE DATE:	DEC 2025		33046	
					SCALE:	AS SHOWN		DISCIPLINE	
					DESIGNED BY:	TWB		CIVIL	
					DRAWN BY:	TWB		SHEET NAME	
					CHECKED BY:	LCH		GN-1	
							SHEET	OF	
							02	11	

15.0 CONSTRUCTION STAKING

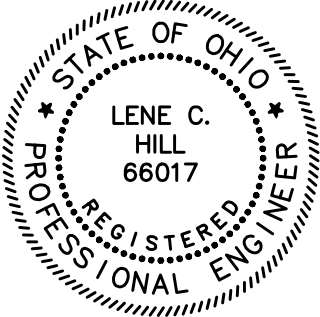
- 15.01 PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EMPLOY A REGISTERED SURVEYOR TO LOCATE, RECORD, AND MARK ALL EXISTING MONUMENTS AND PROPERTY CORNERS WITHIN THE CONSTRUCTION LIMITS. THIS COST SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR CONSTRUCTION LAYOUT STAKES AND SURVEYING. A LISTING OF THE PINS AND MONUMENTS SHALL BE SUPPLIED TO THE CITY ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL PINS AND MONUMENTS DURING CONSTRUCTION. IF PINS AND MONUMENTS ARE DISTURBED DURING CONSTRUCTION, THE CONTRACTOR SHALL HAVE THEM REPLACED BY THE REGISTERED SURVEYOR AT NO ADDITIONAL COST TO THE CITY.
- 15.02 BENCHMARKS HAVE BEEN SET FOR SURVEY AND CONSTRUCTION PURPOSES. THE CONTRACTOR SHALL PROTECT AND OR TRANSFER THESE BENCHMARKS AS NEEDED TO COMPLETE HIS WORK.

16.0 PROHIBITED CONSTRUCTION ACTIVITIES

- 16.01 DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOODPLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER;
- 16.02 LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS;
- 16.03 INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS;
- 16.04 PUMPING OF SEDIMENT–LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS; ALL SUCH WATER WILL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE;
- 16.05 DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS, OR INTO NATURAL OR MAN–MADE CHANNELS LEADING THERETO;PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM;
- 16.06 DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA;DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS;
- 16.07 OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT;
- 16.08 DISCHARGING INJURIOUS SILICA DUST CONCENTRATIONS INTO THE ATMOSPHERE RESULTING FROM BREAKING, CUTTING, CHIPPING, RILLING, BUFFING, GRINDING, POLISHING, SHAPING OR SURFACING CLOSER THAN 200 FEET TO PLACES OF RESIDENCES OR COMMERCIAL, PROFESSIONAL, QUASI–PUBLIC OR PUBLIC PLACES OF HUMAN OCCUPATION;
- 16.09 STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES;
- 16.10 RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR PUBLIC PROPERTY AND RIGHTS–OF–WAY WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY OWNER AND THE CONSENT OF THE ENGINEER;
- 16.11 OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OR 8:00 AM AND 5:00 PM.
- 16.12 CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS AND THE ENGINEER, AND CLOSING CLEAR ACCESS:
- BY FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES;
 - BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI–PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE; OR
 - BY VEHICLES TO DRIVEWAYS WITHOUT THE PROVISION OF ALTERNATIVE MEANS OF BUILDING INGRESS AND EGRESS.

17.0 CONTINGENCY ITEMS

- 17.01 THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEERS DISCRETION SHALL BE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.
- 17.02 THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED IN THE PROPOSAL TO BE USED AS DIRECTED BY THE ENGINEER.
- | | | |
|-------|--|---------|
| (204) | EXCAVATION OF SUBGRADE AND EMBANKMENT WITH GRANULAR MATERIAL, CCS, AS PER PLAN | 60 CY |
| (611) | 6" SANITARY SEWER LATERAL, AS PER PLAN (PVC, SDR 26) | 30 LF |
| (611) | CATCH BASIN, NO. 3A, AS PER PLAN | 1 EACH |
| (611) | SPECIAL – MISCELLANEOUS METAL | 300 LB |
| (611) | LEAD WATER SERVICE REPLACEMENT, FROM CURB BOX/METER TO HOUSE | 100 FT. |



NO	REVISION	DATE

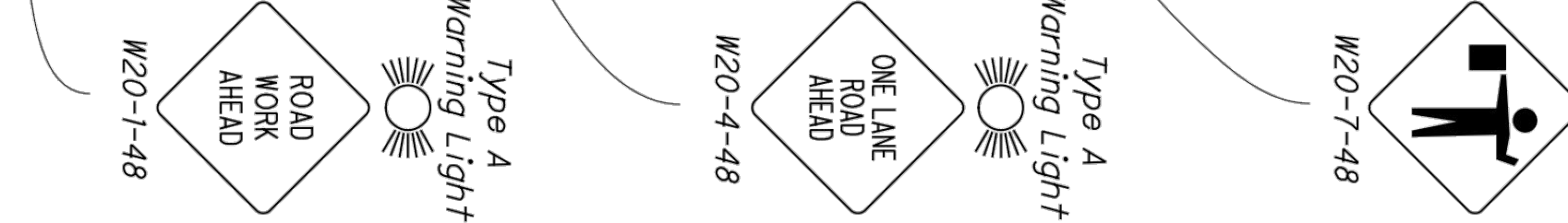
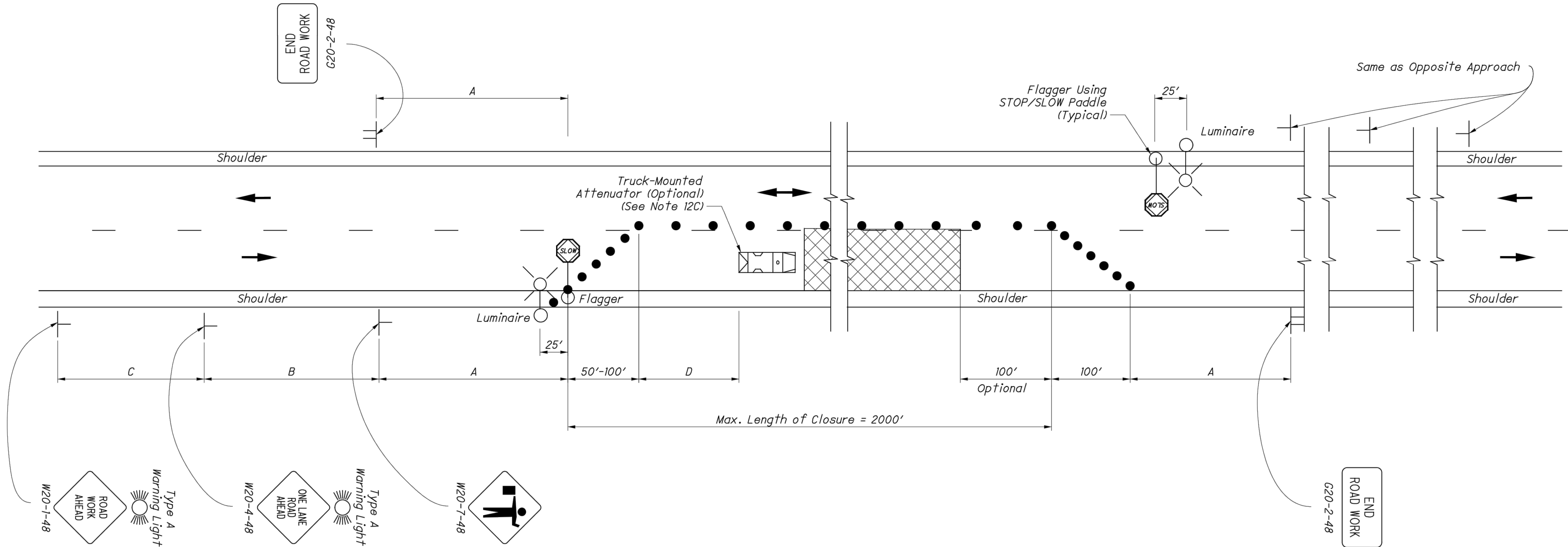
CITY OF GENEVA
ASHTABULA COUNTY, OHIO

LAWN STREET WATERLINE REPLACEMENT
SWAN STREET TO LOCKWOOD STREET

ISSUED FOR:	BID SET
ISSUE DATE:	DEC 2025
SCALE:	AS SHOWN
DESIGNED BY:	TWB
DRAWN BY:	TWB
CHECKED BY:	LCH

GENERAL NOTES

PROJECT NO.	
33046	
DISCIPLINE	
CIVIL	
SHEET NAME	
GN-2	
SHEET	OF
03	11



ROAD TYPE	DISTANCE BETWEEN SIGNS (FT)		
	A	B	C
Two-Lane (≤ 40 MPH)	100	100	100
Two-Lane (45-50 MPH)	350	350	350
Two-Lane (55-60 MPH)	500	500	500

SPEED LIMIT (MPH)	BUFFER (D) (FT) MIN.
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570

LEGEND

WORK AREA

DRUMS/CONES

DIRECTION OF TRAVEL

SHADOW VEHICLE WITH TMA

STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATOR

ENGINEER

OFFICE OF ROADWAY ENGINEERING

FLAGGER CLOSING 1 LANE OF A 2-LANE HIGHWAY - STATIONARY OPERATION

SCD NUMBER
MT-97.10

1 / 2

REVISION DATE

David L. Holstein

Soisson

04-19-2019

NO	REVISION	DATE

CITY OF GENEVA
ASHTABULA COUNTY, OHIO

LAWN STREET WATERLINE REPLACEMENT
SWAN STREET TO LOCKWOOD STREET

ISSUED FOR:	BID SET
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SCALE:	AS SHOWN
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MAINTENANCE OF TRAFFIC

PROJECT NO. 33046
DISCIPLINE CIVIL
SHEET NAME MOT-1
SHEET 04 OF 11

Z:\PROJECT FILES\GA-HD\GENEVA\33046 - GENEVA - LAWN ST. WATERLINE REPLACEMENT\CADD\DWGS\SHETS\SC - S3406 - MOT.DWG - MOT-1 - 8/12/2025 1:44:58 PM - CHRISTIAN WARNER

NOTES:

FLAGGERS

1. *Flaggers, one for each direction, shall be used to control traffic continuously for as long as a one lane operation is in effect. The flaggers shall be able to communicate with each other at all times.*

LENGTH OF CLOSURE

2. *Several small work areas close together should be combined into one work zone. However, the closure shall not be more than 2000' long unless approved by the Engineer. The minimum length between closures shall be 2000'. Only one side of the road shall be closed in any one work zone.*

SIGN LOCATION AND SPACING

- 3A. *The minimum spacing between work zone signs is shown in Table I. Maximum spacing should not be greater than 1.5 times the distances shown in Table I.*
- 3B. *Sign spacing should be adjusted to avoid conflict with existing signs. Minimum spacing to existing signs shall be 200' for speeds of 45 mph or less and a minimum of 400' for speeds of 50 mph or greater.*
- 3C. *The location of the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment.*

ADJUSTMENTS FOR SIGHT DISTANCE

4. *The location of the flagger station and the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment.*

BASIC SIGNING

- 5A. *ROAD WORK AHEAD (W20-1) signs shall be provided on entrance ramps or roadways entering the work limits.*
- 5B. *END ROAD WORK (G20-2) signs are only required for lane closures of more than 1 day. If is intended that these signs be placed on the mainline, on all exit ramps, and on roadways exiting the work limits.*
- 5C. *Overlapping of signing for adjacent projects should be avoided where the messages could be confusing. Any ROAD WORK AHEAD (W20-1) or END ROAD WORK (G20-2) sign which falls within the limits of another traffic control zone shall be omitted or covered during the period when both projects are active.*

SIGNING DETAILS

- 6A. *The Advisory Speed (W13-1P) plaque shall be used when specified in the plan.*
- 6B. *36" warning signs may be used when the approach speed limit is 40 mph or less.*

FLASHING WARNING LIGHTS

7. *Type A flashing warning lights shown on the ROAD WORK AHEAD (W20-1) signs and on the LANE CLOSED AHEAD (W20-5) signs are required whenever a night lane closure is necessary.*

DRUMS / CONES

- 8A. *Drum spacing shall be as follows:*
- a) Spacing along the closure shall be 40' center-to-center.*
b) Spacing along the approach taper shall be 10' center-to-center.
- 8B. *Cones may be substituted for drums as follows:*
- a) Cones used for daytime traffic control shall have a minimum height of 28".*
b) Cones used for nighttime traffic control shall have a minimum height of 42".
c) Use of cones at night shall be prohibited along tapers.
- 8C. *Provisions shall be made to stabilize the cones and drums to prevent them from blowing over.*
- 8D. *A minimum of two drums shall be used to close the paved shoulder.*

(RESERVED FOR FUTURE USE)

- 9A. *(intentionally blank)*

AREA ILLUMINATION

- 10A. *Adequate area illumination of each flagger station shall be provided at night. Use of portable flood lighting is acceptable. Luminaires shall be located adjacent to each flagger station.*
- 10B. *To ensure the adequacy of floodlight placement and the elimination of glare, the Contractor and the Engineer shall drive through the worksite each night when the lighting is in place. Light placement and shielding shall be adjusted to the satisfaction of the Engineer.*

INTERSECTION / DRIVEWAY ACCESS

11. *Within the length of closure, provision shall be made to control traffic entering from intersecting streets and major drives as necessary to prevent wrong-way movements and to keep vehicles off of new pavement not ready for traffic. The Contractor shall:*
- a) Place across the closed lane, either three drums (cones) or barricades, and/or*
b) Provide an additional flagger at every public street intersection and major driveway.
- Drums (cones) placed across the closed lane shall be located 25' beyond the projected pavement edges of the driveway or cross highway, as shown in Standard Construction Drawings (SCDs MT-97.11 or MT-97.12. For barricades, see SCD MT-101.60.*

Existing STOP signs shall be relocated as necessary to assure proper location for the traffic conditions.

The method of control shall be subject to the approval of the Engineer.

SHADOW VEHICLE

- 12A. *The shadow vehicle shall be in place and unoccupied whenever workers are in the work area. This vehicle shall be removed from the pavement whenever workers are not in the work area.*
- 12B. *The shadow vehicle shall be equipped with a high-intensity yellow rotating, flashing, oscillating, or strobe light(s).*
- 12C. *The shadow vehicle shall be equipped with a truck-mounted or trailer attenuator (TMA) in accordance with CMS 614.03 when called for in the plans.*

CHIP SEAL OPERATIONS

13. *For chip seal operations, additional signing shall be incorporated in the advanced warning area.*
- a) The LOOSE GRAVEL (W8-7) and FRESH TAR (W21-2) signs shall both be used in advance of the chip seal operation.*
b) Repeat the LOOSE GRAVEL sign with a 35 mph Advisory Speed (W13-1) plaque every half mile per CMS 422.09.
c) The FRESH TAR and the LOOSE GRAVEL signs shall both be used for signing of side roads intersecting the work area.

THIS DRAWING REPLACES MT-97.10 DATED 07-18-2014.

SCD NUMBER STANDARD ROADWAY CONSTRUCTION DRAWING

FLAGGER CLOSING 1 LANE OF A 2-LANE HIGHWAY - STATIONARY OPERATION

MT - 97.10

2 / 2

REVISION DATE

04-19-2019

STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATOR

David L. Holstein

STATUS ENGINEER

Soisson

OFFICE OF ROADWAY ENGINEERING



NO	REVISION	DATE

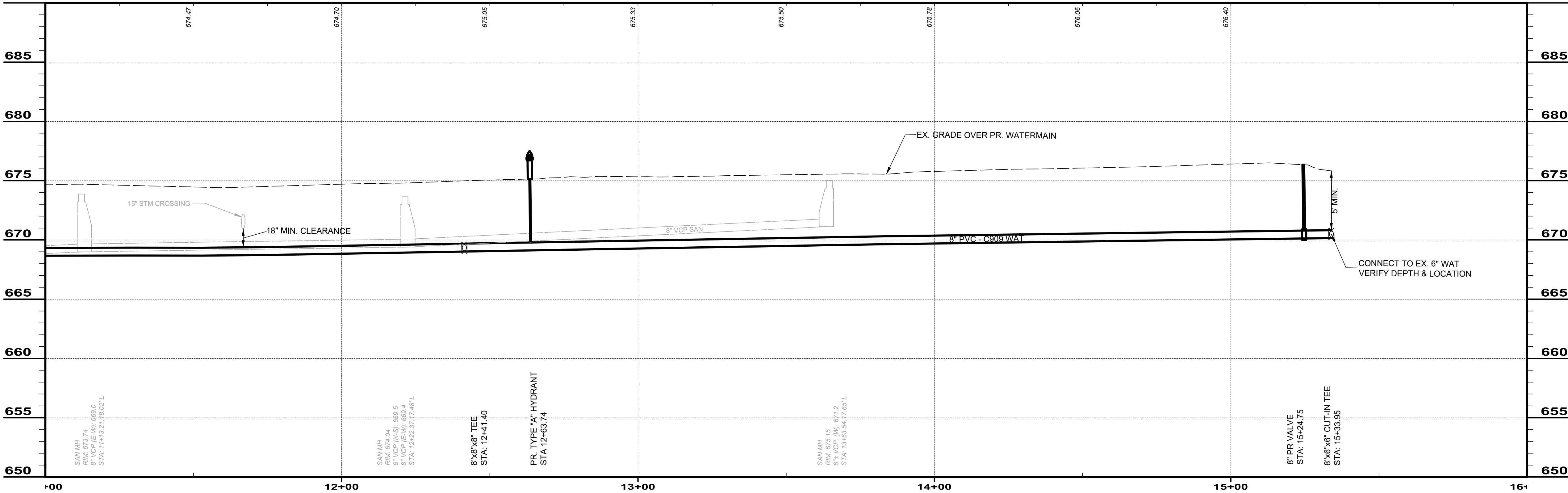
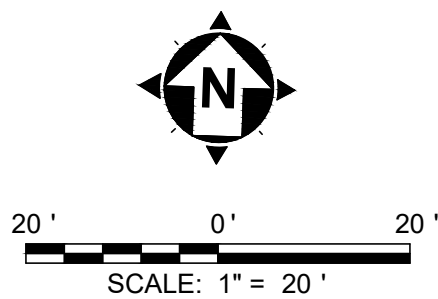
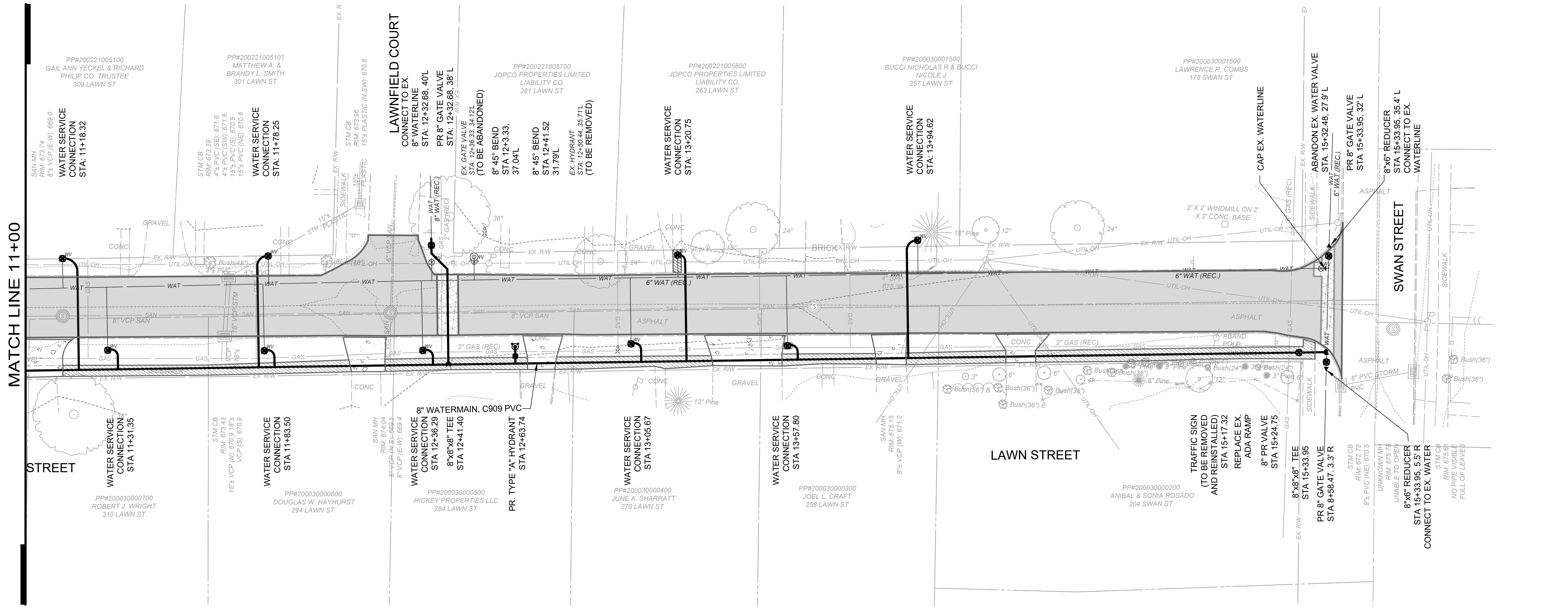
CITY OF GENEVA
ASHTABULA COUNTY, OHIO

LAWN STREET WATERLINE REPLACEMENT
SWAN STREET TO LOCKWOOD STREET

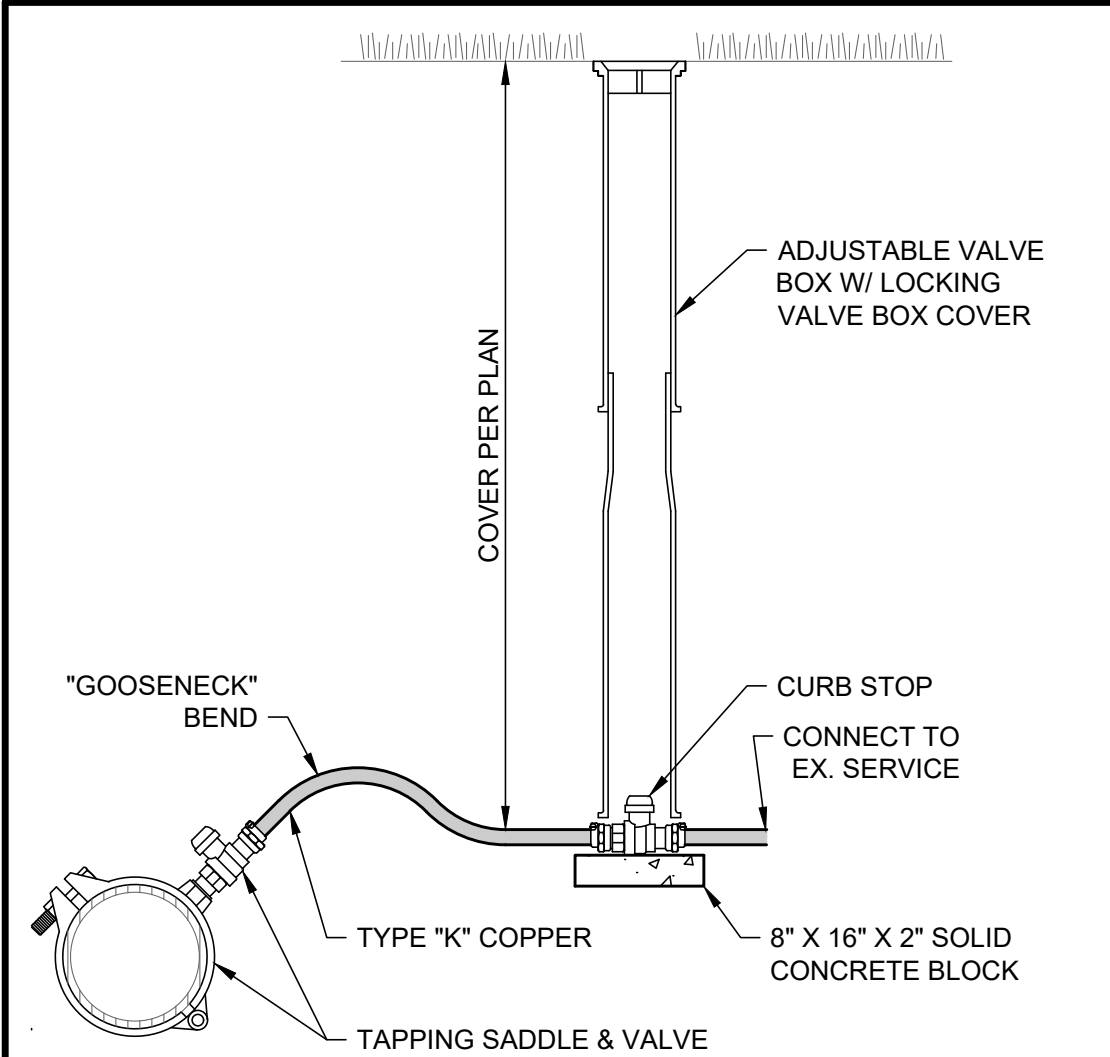
ISSUED FOR:	BID SET
ISSUE DATE:	DEC 2025
SCALE:	AS SHOWN
DESIGNED BY:	TWB
DRAWN BY:	TWB
CHECKED BY:	LCH

MAINTENANCE OF TRAFFIC NOTES

PROJECT NO.	
33046	
DISCIPLINE	
CIVIL	
SHEET NAME	
MOT-2	
SHEET	OF
05	11



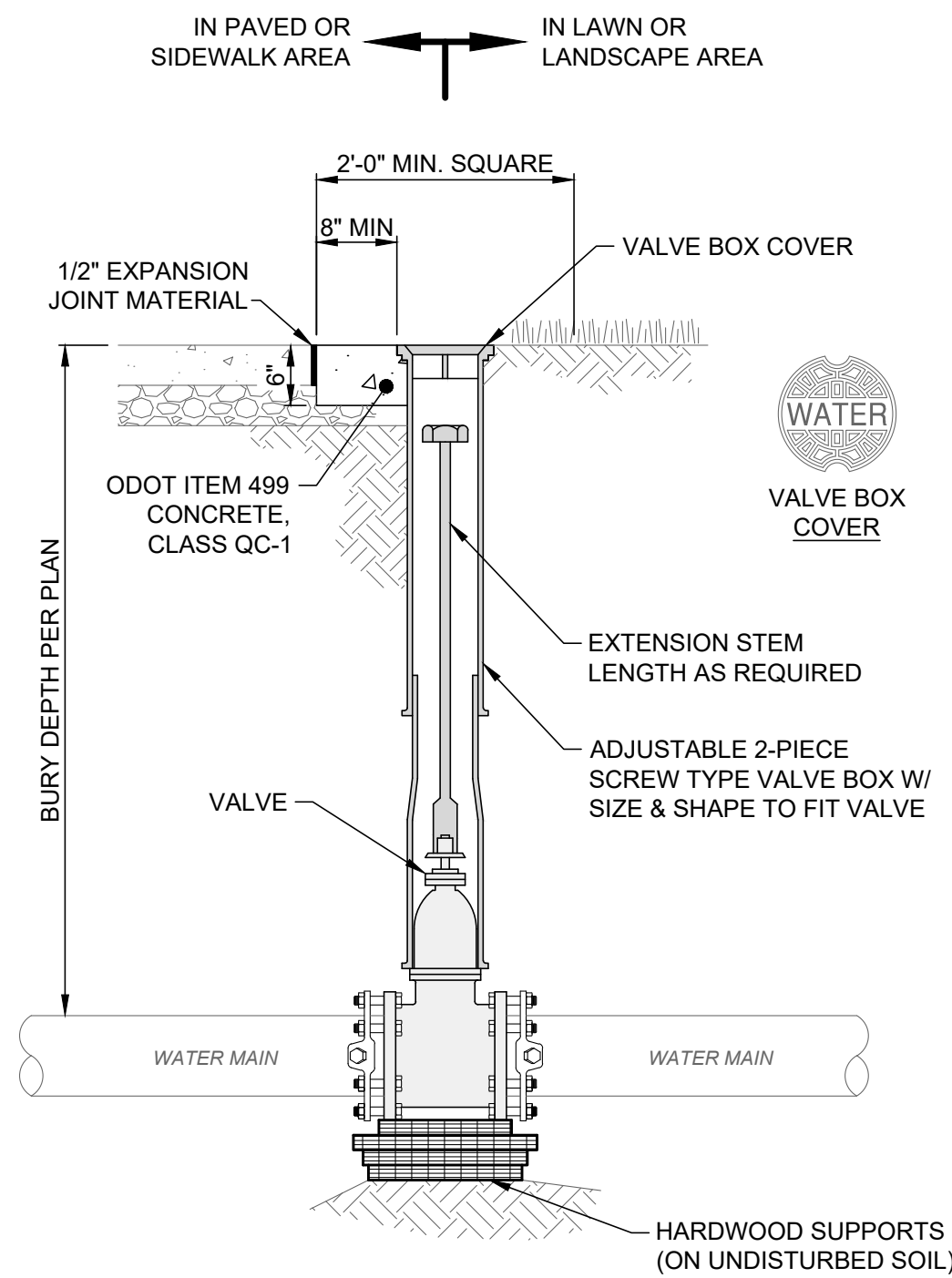
		NO	REVISION	DATE	<div>CITY OF GENEVA ASHTABULA COUNTY, OHIO</div> <div>LAWN STREET WATERLINE REPLACEMENT</div> <div>SWAN STREET TO LOCKWOOD STREET</div>	ISSUED FOR:	BID SET	<div>PLAN AND PROFILE</div> <div>STA. 11+00 TO 16+00</div>	PROJECT NO.	
						ISSUE DATE:	DEC 2025		33046	
						SCALE:	AS SHOWN		DISCIPLINE	
						DESIGNED BY:	TWB		CIVIL	
						DRAWN BY:	TWB		SHEET NAME	
						CHECKED BY:	LCH		P&P-3	
									SHEET	OF
									08	11



SADDLE TAP: PVC0 909 PIPE

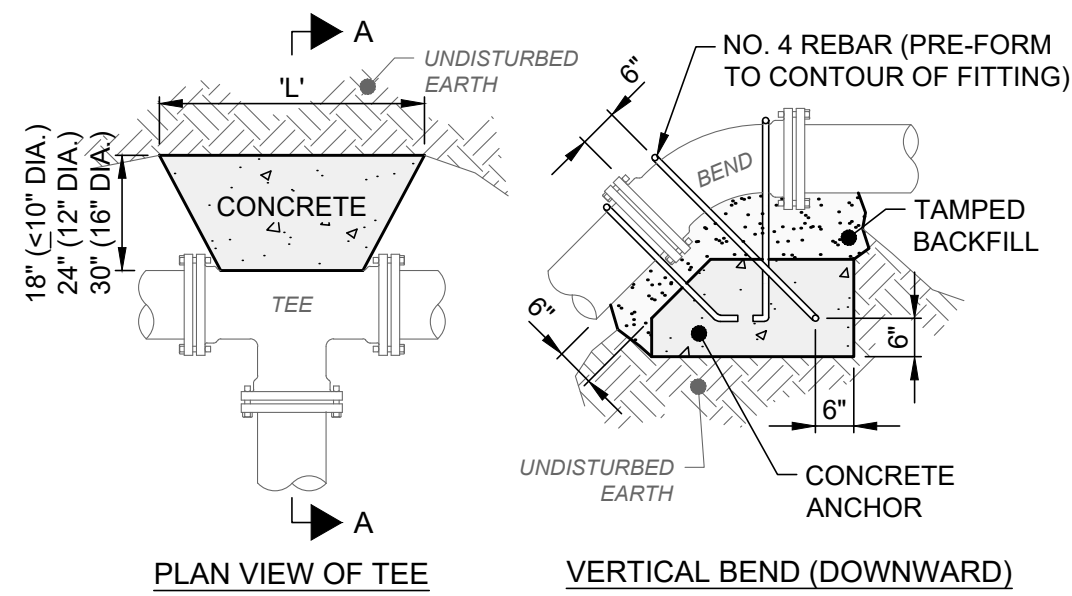
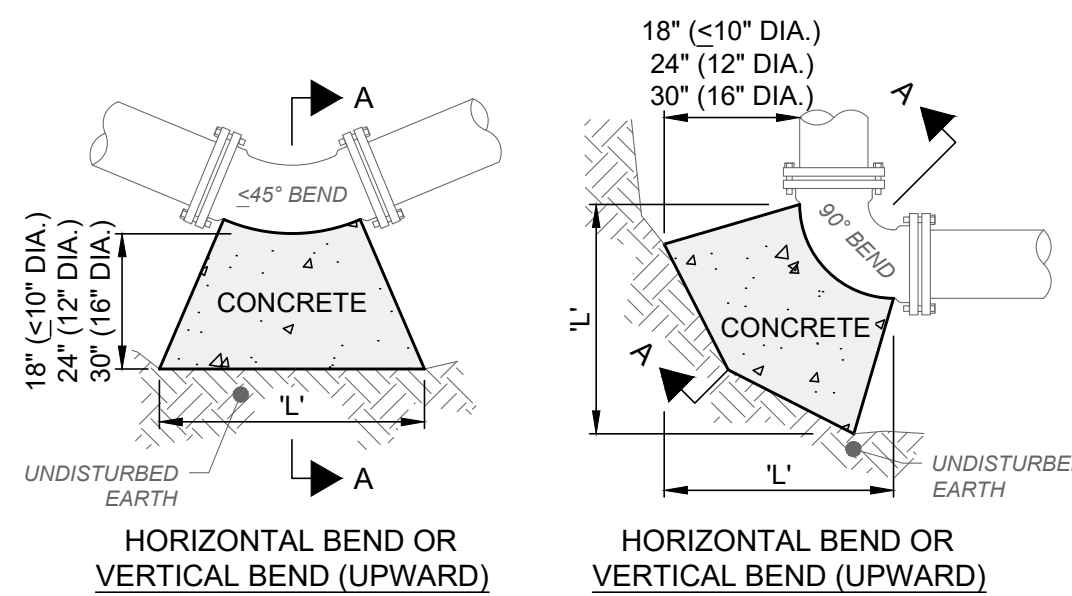
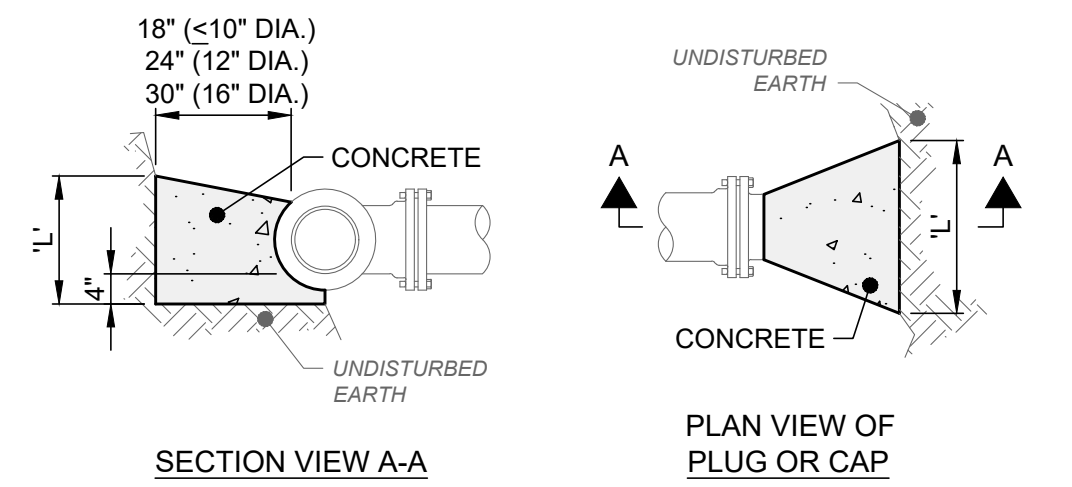
- NOTES:
- TAPS SHALL NOT BE CLOSER THAN 2'-0" FOR 12" DIA. AND SMALLER PIPE FROM THE FOLLOWING:
 - BACK OF BELL
 - SPIGOT INSERTION LINE
 - JOINT-RESTRAINT HARDWARE
 - MINIMUM DISTANCE BETWEEN SERVICE TAPS SHALL BE:
 - SAME SIDE OF WATER MAIN: 5'-0"
 - OPPOSITE SIDE OF WATER MAIN: 1'-6"
 - FROM HYDRANT VALVE: 5'-0"
 - FROM WATER MAIN BELL, SPIGOT INSERTION OR FITTING: 2'-0"
 - FROM WATER MAIN JOINT RESTRAINT: 2'-0"

1" WATER SERVICE DETAIL
SCALE: NONE



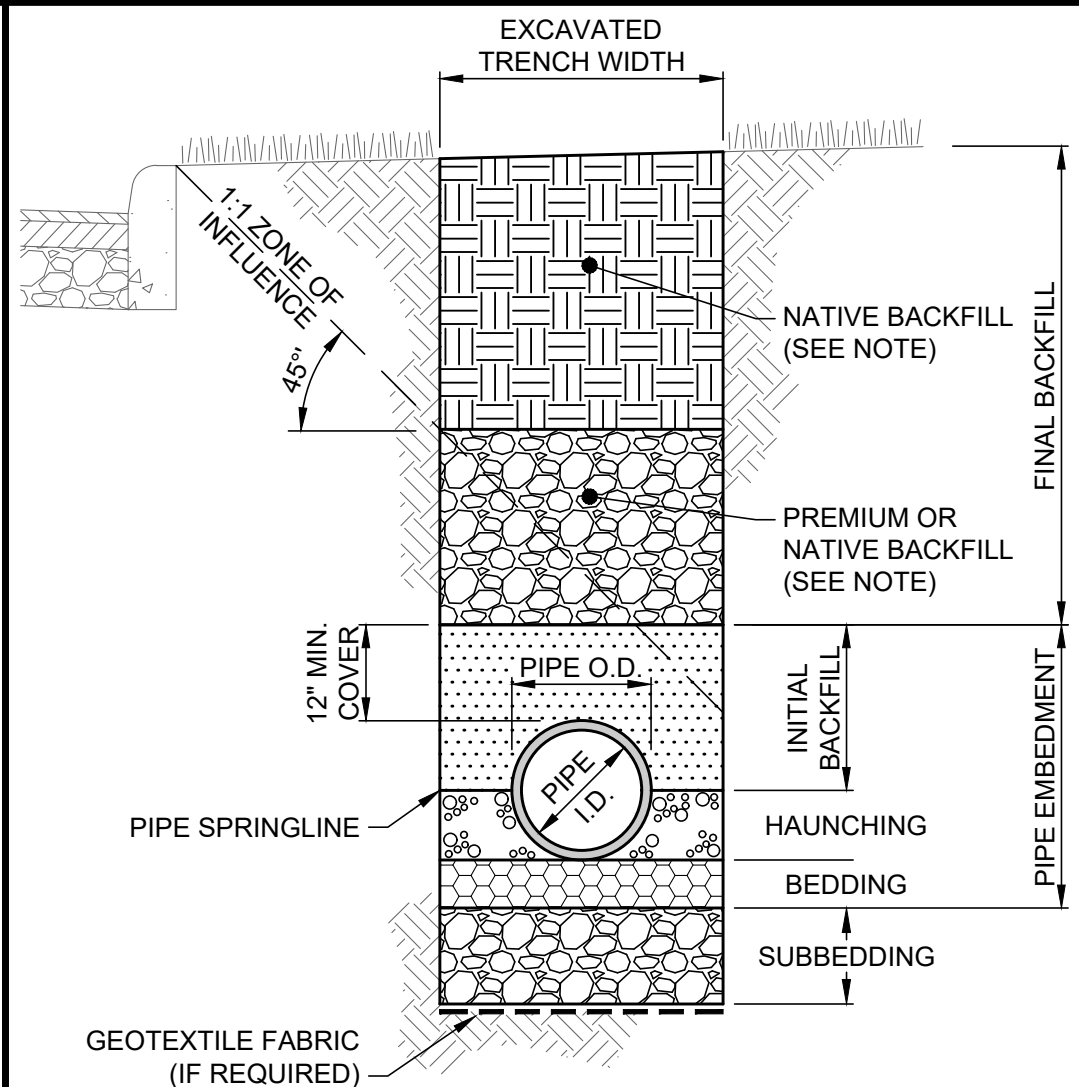
WATER VALVE & VALVE BOX
SETTING DETAIL
SCALE: NONE

"L" DIMENSIONS						
MAIN DIA.	HORIZONTAL BENDS				TEE	CAP & PLUG
	11.25"	22.5"	45"	90"		
4"	5"	9"	14"	14"	14"	11"
6"	8"	12"	20"	21"	20"	17"
8"	9"	16"	24"	31"	24"	23"
10"	12"	20"	30"	39"	30"	31"
12"	14"	24"	36"	47"	36"	38"
16"	18"	32"	36"	54"	36"	49"



- NOTES:
- ALL CONCRETE SHALL BE ODOT ITEM 499, CLASS QC-1.
 - ALL DIMENSIONS SHOWN ARE MINIMUMS. THRUST BLOCKS SHALL BE POURED TO UNDISTURBED EARTH.
 - DO NOT COVER BOLTS WITH CONCRETE ON MECHANICAL JOINTS.
 - USE FORMS WHEN POURING CONCRETE TO MAINTAIN SHAPE AND DIMENSIONS OF THRUST BLOCKS.

CONCRETE THRUST BLOCK DETAIL
SCALE: NONE

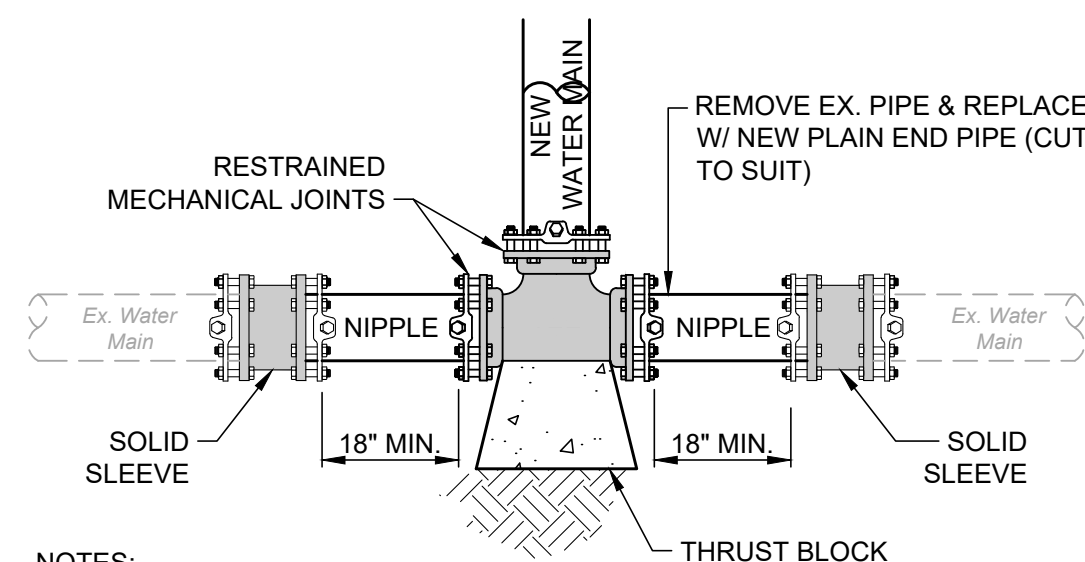


- NOTES:
- EXCAVATED TRENCH WIDTH: MEASURED FROM BOTTOM OF TRENCH TO 12" OVER TOP OF PIPE (WITHIN PIPE EMBEDMENT), THE MIN. TRENCH WIDTH SHALL BE PIPE O.D. + 18" AND THE MAX. SHALL BE:
 - PIPE O.D. + 24" FOR 24" AND SMALLER I.D. PIPE
 - FINAL BACKFILL: ALL AREAS UNDER PAVEMENT, STRUCTURES OR ZONE OF INFLUENCE SHALL BE PREMIUM BACKFILL ODOT ITEM 304 CRUSHED LESTONE. MEASURED FROM THE OUTSIDE EDGE OF PAVEMENT OR BOTTOM OF FOOTING. PAVEMENT INCLUDES ROADWAY, SHOULDER AND DRIVEWAY, BUT NOT SIDEWALK. ALL OTHER AREAS SHALL BE SUITABLE ON-SITE NATIVE FRIABLE MATERIAL. NO SLAG OR SLACKER AGGREGATES ALLOWED.
 - PIPE EMBEDMENT: BEDDING AND HAUNCHING SHALL BE NO. 8, 7, 67 OR 57 COURSE INTERLOCKING LESTONE AGGREGATE. BEDDING SHALL BE 8" MIN. ALL AREAS UNDER PAVEMENT, STRUCTURES OR ZONE OF INFLUENCE, INITIAL BACKFILL SHALL BE NO. 8, 7, 67 OR 57 COURSE INTERLOCKING LESTONE AGGREGATE. ALL OTHER AREAS, INITIAL BACKFILL MAY BE SUITABLE ON-SITE NATIVE FRIABLE MATERIAL FOR RIGID PIPE AND SHALL BE NO. 8, 7, 67 OR 57 COURSE INTERLOCKING LESTONE AGGREGATE FOR FLEXIBLE PIPE.
 - SUBBEDDING: WHERE AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED, UNDERCUT UNSUITABLE MATERIAL 12" MIN. OR DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH PREMIUM BACKFILL ODOT ITEM 304 CRUSHED LESTONE.
 - COMPACTION REQUIREMENTS:

COMPACTION TESTS REQUIRED EVERY 50 FEET UNDER PAVEMENT OR STRUCTURES, AND 100 FEET OUTSIDE PAVEMENT:

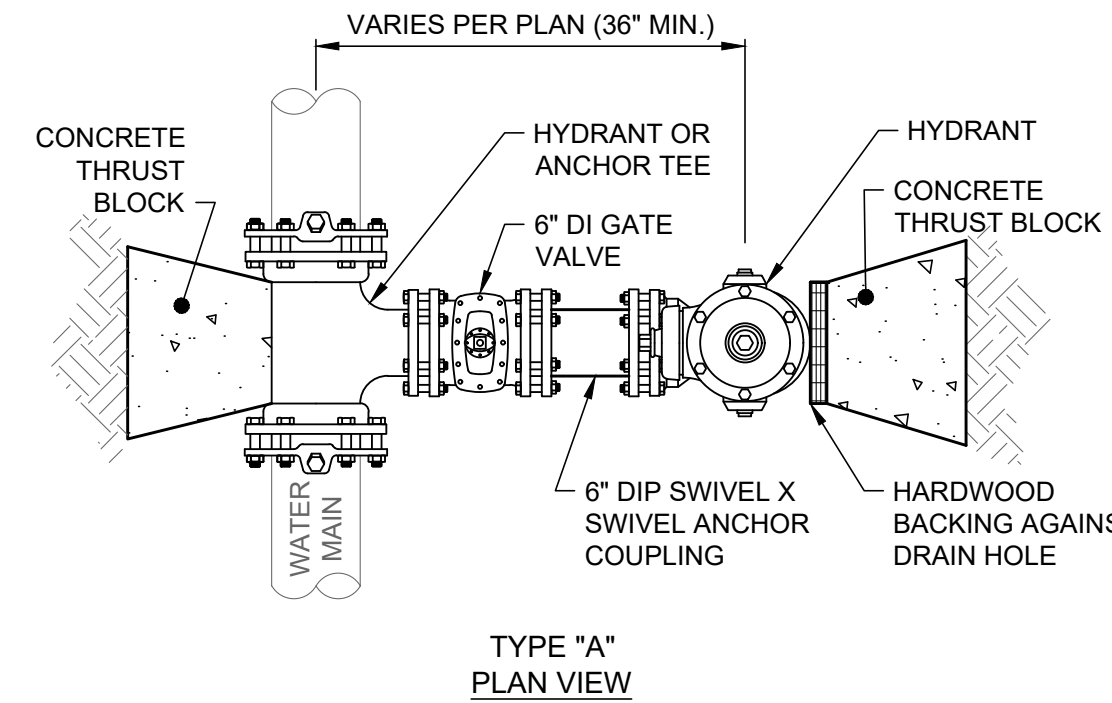
 - STRUCTURAL FILL: UNDER PAVEMENT, STRUCTURES AND ZONE OF INFLUENCE COMPACT TO 98% MAXIMUM DRY DENSITY OF STANDARD PROCTOR WITH MOISTURE CONTENT ADJUSTED TO +2/-2% OF OPTIMUM.
 - ENGINEERED FILL: UNDER WALKS COMPACT TO 95% MAXIMUM DRY DENSITY OF STANDARD PROCTOR WITH MOISTURE CONTENT ADJUSTED TO +2/-2% OF OPTIMUM.
 - GENERAL FILL: ALL OTHER AREAS COMPACT TO 90% MAXIMUM DRY DENSITY OF STANDARD PROCTOR WITH MOISTURE CONTENT ADJUSTED TO +2/-3% OF OPTIMUM.
 - CLAY TRENCH DAMS: SHALL BE REQUIRED WHEN AND WHERE NECESSARY AS PER PLAN OR DIRECTED BY THE ENGINEER.

TRENCHING & BACKFILL DETAIL
SCALE: NONE



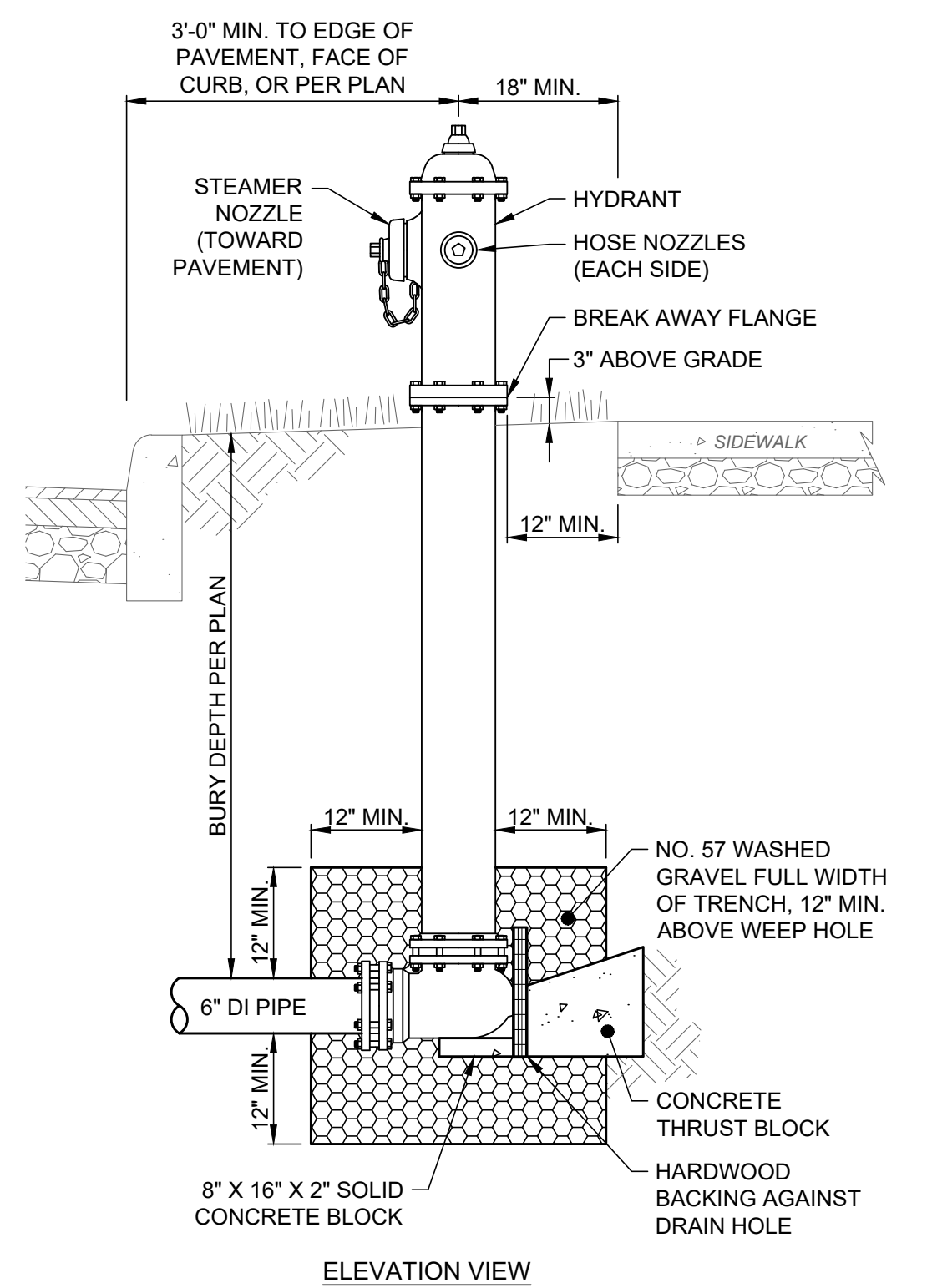
- NOTES:
- BEFORE CUTTING EXISTING WATER MAIN, BOTH NIPPLES SHALL BE CONNECTED TO THE GATE VALVE.
 - CONNECTION SHALL BE MADE WITH RESTRAINED MECHANICAL JOINT SOLID SLEEVES OF DUCTILE IRON CLASS 350.

CUT-IN TEE DETAIL
SCALE: NONE

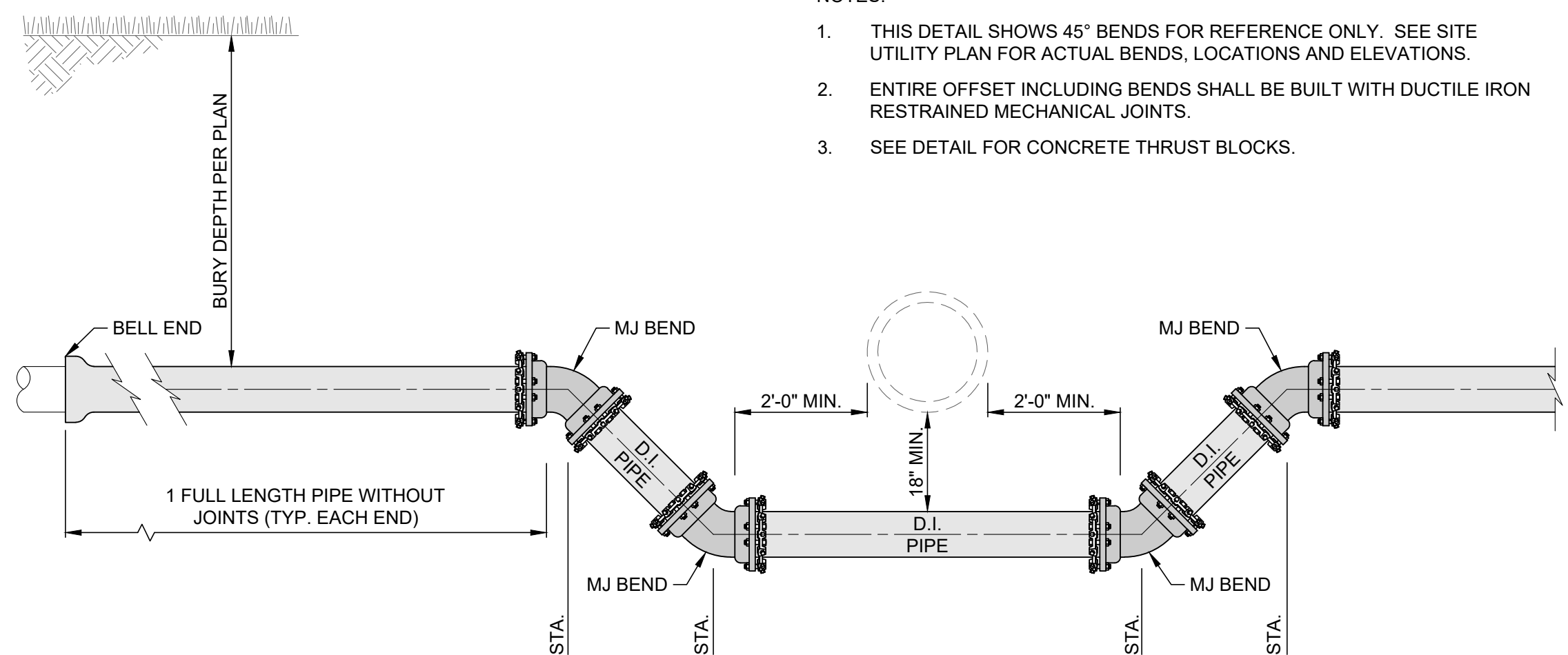


- NOTES:
- THIS DETAIL IS FOR REFERENCE AND DIMENSION CONTROL ONLY; NOT ALL ITEMS SHOWN MAY APPLY OR DIFFERENT CONFIGURATIONS AND FITTINGS MAY BE REQUIRED.
 - ALL PIPES AND FITTINGS SHALL BE RESTRAINED MECHANICAL JOINTS.
 - HYDRANT MANUFACTURE AND MODEL SHALL BE CLOW MEDALLION PER THE GENEVA WATER DEPARTMENT REQUIREMENTS.
 - HYDRANT SHALL BE PAINTED COLOR CHOICE OF THE WATER DEPARTMENT OR FIRE DEPARTMENT.
 - PAINT AND PRIMER SHALL BE SHOP APPLIED WITH 1 COAT OF EXTERIOR METAL PRIMER AND 2 COATS OF EXTERIOR HIGH GLOSS POLYURETHANE ENAMEL PER MANUFACTURER SPECIFICATIONS.
 - SEE DETAIL FOR CONCRETE THRUST BLOCKS.
 - SEE SEPARATE DETAILS AND GENERAL NOTES FOR ADDITIONAL INFORMATION, REQUIREMENTS AND SPECIFICATIONS.

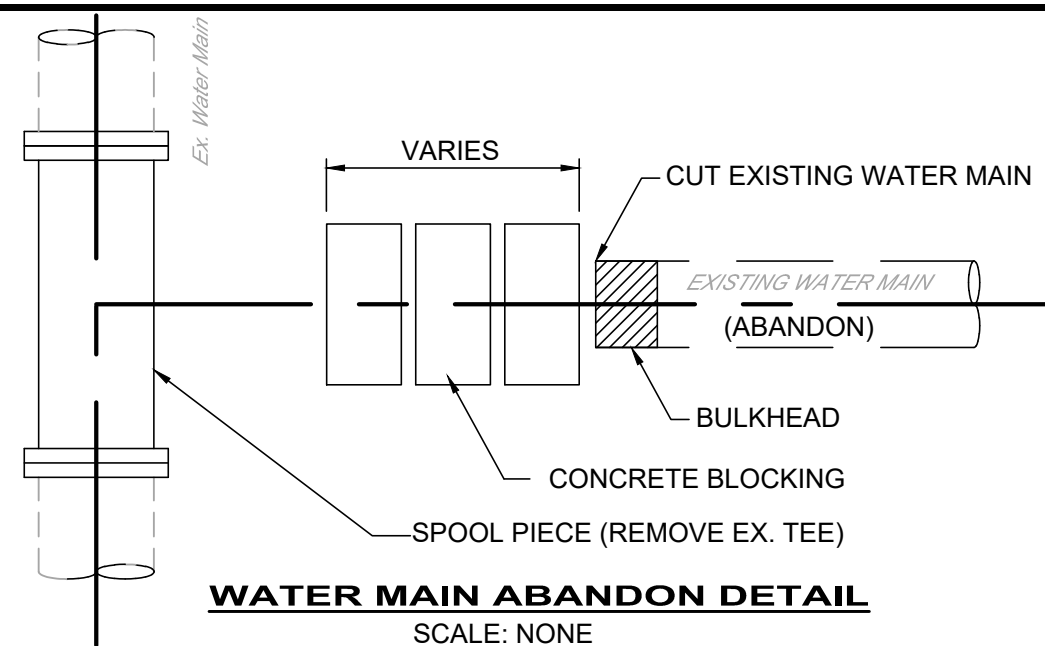
HYDRANT ASSEMBLY
SCALE: NONE



- NOTES:
- THIS DETAIL SHOWS 45° BENDS FOR REFERENCE ONLY. SEE SITE UTILITY PLAN FOR ACTUAL BENDS, LOCATIONS AND ELEVATIONS.
 - ENTIRE OFFSET INCLUDING BENDS SHALL BE BUILT WITH DUCTILE IRON RESTRAINED MECHANICAL JOINTS.
 - SEE DETAIL FOR CONCRETE THRUST BLOCKS.



WATER MAIN UNDERPASS DETAIL
SCALE: NONE



WATER MAIN ABANDON DETAIL
SCALE: NONE



verdantas

NO	REVISION	DATE

CITY OF GENEVA
ASHTABULA COUNTY, OHIO

LAWN STREET WATERLINE REPLACEMENT
SWAN STREET TO LOCKWOOD STREET

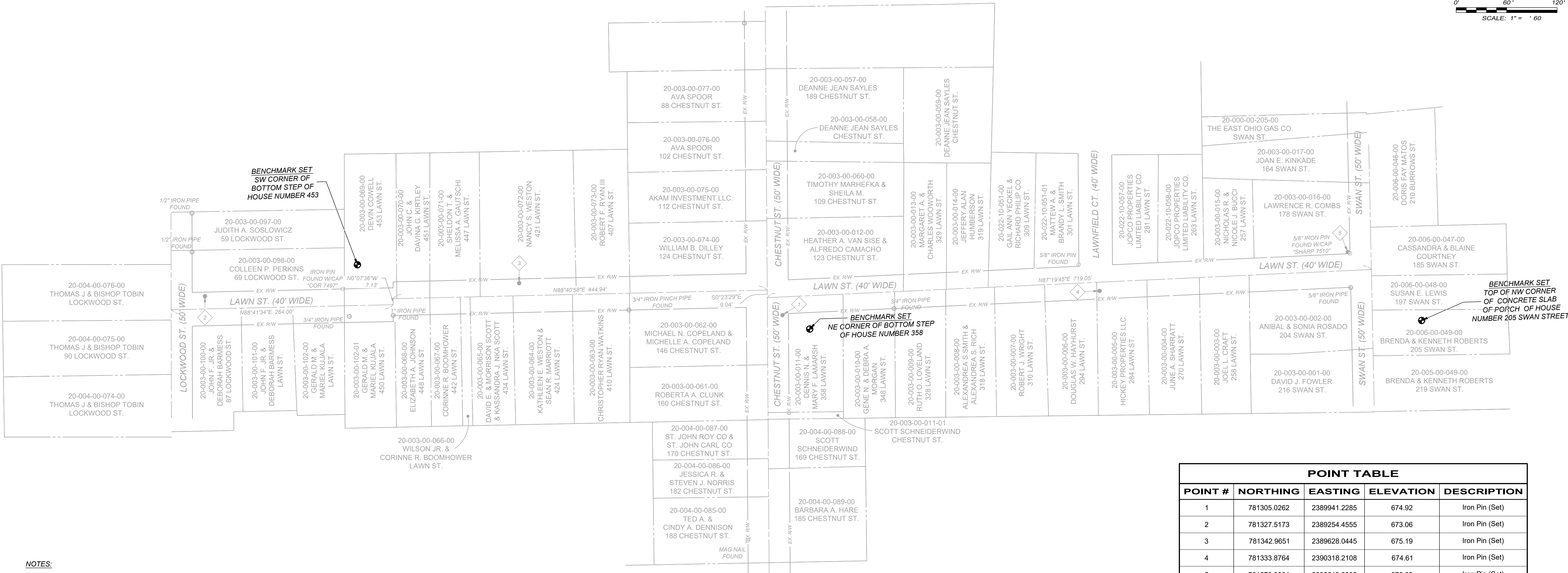
ISSUED FOR:	BID SET
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DESIGNED BY:	TWB
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CHECKED BY:	LCH

WATERLINE DETAILS

PROJECT NO.	
33046	
DISCIPLINE	
CIVIL	
SHEET NAME	
D-1	
SHEET	OF
09	11



0' 60' 120'
SCALE: 1" = 60'



NOTES:

- THIS PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY BE SUBJECT TO EASEMENTS AND OTHER RESTRICTIONS, EITHER RECORDED OR UNRECORDED. THE SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS, RECORD ENCUMBRANCES, RESTRICTIVE COVENANTS OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
- THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.
- PROJECT CONTROL COORDINATE SYSTEM IS BASED UPON THE FOLLOWING:
 - HORIZONTAL DATUM - NORTH AMERICAN DATUM OF 1983 (NAD83, 2011 ADJ.) OHIO STATE PLANE NORTH (ZONE 3401) BY GNSS OBSERVATIONS UTILIZING THE OHIO DEPARTMENT OF TRANSPORTATION'S CONTINUOUSLY OPERATING REFERENCE STATIONS.
 - VERTICAL DATUM - NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) BY GNSS OBSERVATIONS UTILIZING THE OHIO DEPARTMENT OF TRANSPORTATION'S CONTINUOUSLY OPERATING REFERENCE STATIONS.
- THE SURVEY AND STREET ALIGNMENTS SHOWN HEREON WERE OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR OTHER PURPOSES. THE PROPERTY LINES SHOWN HEREON OUR SUBJECT TO AN ACCURATE BOUNDARY SURVEY AND ARE BASED ON FOUND MONUMENTS LOCATED IN THE FIELD AND BEST FIT TO THE RECORDS.
- AN ALTA/ NSPS LAND TITLE SURVEY WAS NOT PERFORMED.
- EASEMENTS, RECORD RESTRICTIONS AND SETBACKS WERE NOT ADDRESSED DURING THIS SURVEY.
- ALL DIMENSIONS GIVEN ARE EXPRESSED IN US SURVEY FEET.
- IRON PINS SET ARE 5/8" IRON PINS SET WITH A RED CAP INSCRIBED WITH "VERDANTAS REF"

BASIS OF BEARINGS
THE BEARINGS SHOWN HEREON ARE BASED ON GRID NORTH (N.0°0'00" E.) NAD 83 (2011 ADJ.) STATE PLANE NORTH (ZONE 3401) FROM GNSS OBSERVATIONS UTILIZING THE OHIO DEPARTMENT OF TRANSPORTATION'S CONTINUOUSLY OPERATING REFERENCE STATIONS.

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	781305.0262	2389941.2285	674.92	Iron Pin (Set)
2	781327.5173	2389254.4555	673.06	Iron Pin (Set)
3	781342.9651	2389628.0445	675.19	Iron Pin (Set)
4	781333.8764	2390318.2108	674.61	Iron Pin (Set)
5	781379.9094	2390613.3033	676.03	Iron Pin (Set)
50	781378.3908	2390615.9379	675.90	Iron Pin (Fnd)
51	781337.8460	2390616.7879	0.00	Iron Pipe (Fnd)
52	781365.0034	2390293.4384	0.00	Iron Pin (Fnd)
53	781312.7984	2390073.9124	0.00	Iron Pipe (Fnd)
54	781037.2263	2389900.0483	0.00	Mag Nail (Fnd)
55	781652.0767	2389895.8467	0.00	Iron Pipe (Fnd)
56	781311.0599	2389758.5545	0.00	Iron Pipe (Fnd)
57	781304.5922	2389478.3158	0.00	Iron Pipe (Fnd)
58	781303.4734	2389426.1204	0.00	Iron Pipe (Fnd)
59	781336.0961	2389418.1855	0.00	Iron Pin (Fnd)
60	781380.0814	2389239.1293	0.00	Iron Pipe (Fnd)
61	781426.1316	2389239.0275	0.00	Iron Pipe (Fnd)
1133	781288.4866	2389973.5275	676.49	Benchmark (Set)
1551	781364.9395	2389435.7459	673.46	Benchmark (Set)
3040	781298.7402	2390701.1198	680.40	Benchmark (Set)



NO	REVISION	DATE

CITY OF GENEVA
ASHTABULA COUNTY, OHIO
LAWN STREET WATERLINE REPLACEMENT
SWAN STREET TO LOCKWOOD STREET

ISSUED FOR:	BID SET
ISSUE DATE:	DEC 2025
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CHECKED BY:	LCH

SURVEY CONTROL

PROJECT NO.	
33046	
DISCIPLINE	
CIVIL	
SHEET NAME	
SC	
SHEET	OF
11	11