



## G00 - SPECIFICATIONS

THE CURRENT REQUIREMENTS OF THE OWNER, THE CONSTRUCTION AND MATERIALS SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION, INCLUDING ALL SUPPLEMENTS THERETO, AS WELL AS THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION SHALL GOVERN THE MATERIALS AND WORKMANSHIP TO COMPLETE THE IMPROVEMENTS SET FORTH IN THESE PLANS.

## G01 - UTILITY OWNERS

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THE PROJECT:

<b>WATER/WASTEWATER/ST/MT/TRAFFIC</b> CITY OF ZANESVILLE WATER 14 BUCKEYE DRIVE ZANESVILLE, OH 43701 740-452-7111	<b>GAS</b> COLUMBIA GAS OF OHIO 2429 NORTH LINDEN AVENUE ZANESVILLE, OH 43702 419-255-1318	<b>ELECTRIC/GAS</b> ENERGY COOPERATIVE 1423 LAKE DR. ZANESVILLE, OH 43701 740-454-7252
<b>ELECTRIC</b> AEP OHIO 700 MORRISON ROAD GAHANNA, OH 43230 614-883-6802	<b>PHONE/INTERNET</b> AT&T	<b>PHONE/INTERNET</b> CHARTER COMM. (SPECTRUM) 111 NORTH 11TH STREET NEWARK, OH 43085 740-322-6703

## G02 - UTILITY LOCATIONS

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF UTILITIES AS REQUIRED BY SECTION 153.64 ORC. LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEIR EXACT LOCATION AND ELEVATION WHEN WORKING IN THEIR VICINITY.

WHERE POTENTIAL GRADE CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR SHALL UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT THE EXACT ELEVATION MAY BE DETERMINED AND THE NECESSARY ADJUSTMENTS MADE. COST OF THE ABOVE, IF ANY, WILL BE INCLUDED IN THE PRICE BID FOR THE PERTINENT ITEM.

LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL UTILITY LINES, SERVICES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED WITH THE PRICE BID FOR THE PERTINENT ITEM, UNLESS OTHERWISE NOTED ON THE PLANS. ESTIMATED QUANTITIES SHOWN ON THE PLANS FOR WATER AND SANITARY SEWER RELOCATIONS ARE FOR THOSE ITEMS ACTUALLY CALLED FOR AND SHOWN ON THE PLANS.

THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION, AT THE CONTRACTORS OWN EXPENSE..

THE INFORMATION SHOWN CONCERNING EXISTING UTILITIES IS NOT REPRESENTED, WARRANTED OR GUARANTEED TO BE COMPLETE OR ACCURATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PHYSICALLY LOCATE AND VERIFY, IN THE FIELD, ALL UTILITY LOCATIONS AND ELEVATIONS, PRIOR TO THE BEGINNING OF HIS CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS, IN ACCORDANCE WITH SECTION 153.64, OHIO REVISED CODE, AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE BEGINNING OF ANY WORK. COORDINATE HIS WORK WITH THEM, AND KEEP THE UTILITY OWNERS APPRAISED OF HIS SCHEDULE AND REQUIREMENTS UNTIL ALL WORK IS COMPLETED. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH EVIDENCE OF HAVING NOTIFIED THE UTILITIES AND PROVIDING THEM WITH HIS WORK SCHEDULE PRIOR TO BEGINNING ANY WORK. NOTICE SHALL BE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICE (TELEPHONE 800-362-2764), FOR THE MEMBER UTILITIES.

## G03 - SURVEYS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL DETAIL SURVEYS NEEDED FOR CONSTRUCTION. ALL CONSTRUCTION STAKING, IF NEEDED, SHALL BE DONE BY OR UNDER THE DIRECTION OF A PROFESSIONAL REGISTERED SURVEYOR.

## G04 - MODIFICATIONS

ANY MODIFICATIONS OR CHANGES TO THE WORK, AS SHOWN ON THE DRAWINGS, MUST HAVE PRIOR WRITTEN APPROVAL BY THE ENGINEER.

## G05 - SAFETY

THE CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS INCLUDING EMPLOYEES AND PROPERTY. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURING THE PROJECT SITE FROM THE GENERAL PUBLIC BOTH DURING AND AFTER WORKING HOURS. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN ALL LIGHTS, SIGNS, FENCES, OR ANY OTHER SAFETY DEVICE TO PREVENT UNAUTHORIZED PERSONNEL FROM HAZARDOUS OR DANGEROUS CONDITIONS ON THE PROJECT SITE. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS BID FOR FURNISHING AND INSTALLING MATERIALS ON THIS PROJECT.

## G06 - REVIEW OF PROJECT SITE

PRIOR TO BIDDING THE CONTRACTOR SHALL, BY PERSONAL EXAMINATION, SATISFY HIMSELF AS TO THE LOCATION OF THE PROPOSED WORK AND TO ACQUAINT HIMSELF THOROUGHLY WITH THE EXISTING CONDITIONS AND THE DIFFICULTIES THAT ARE LIKELY TO BE ENCOUNTERED IN THE PERFORMANCE OF THE PROPOSED WORK.

THROUGH OBSERVATION OF THE PROPOSED PROJECT ROUTING PRIOR TO BID, THE CONTRACTOR SHALL NOTE ALL STREAM CROSSINGS WHERE EVIDENCE OF ROCK IS PRESENT. SUCH EXISTING CONDITIONS SHALL BE CONSIDERED IN PREPARING THE BID. ADDITIONAL COMPENSATION SHALL NOT BE GRANTED SHOULD ROCK BE ENCOUNTERED IN THESE LOCATIONS. IN ADDITION, CHANNEL AND BANK RESTORATION WORK, INSTALLATION METHODS, CONCRETE ENCASMENT, BACKFILL, SEEDING AND MULCHING, AND EROSION CONTROL METHODS SHALL CONSIDER EXISTING STREAM CONDITIONS AND SHALL BE EFFECTED TO PROHIBIT EROSION AND/OR DEGRADATION OF THE EXISTING STREAM CHANNEL.

## G07 - IRON PINS AND MONUMENTS

THE CONTRACTOR SHALL REFERENCE ALL IRON PINS AND MONUMENTS BEFORE EXCAVATING AT OR NEAR THEM. IF ANY IRON PINS OR MONUMENTS ARE DESTROYED OR DAMAGED BY THE CONTRACTOR, THEY SHALL BE ACCURATELY REPLACED BY A REGISTERED SURVEYOR EMPLOYED BY THE CONTRACTOR AT THE COMPLETION OF THE PROJECT AND AT NO EXPENSE TO THE PROJECT OWNER OR PROPERTY OWNERS.

## G08 - PRIOR TO COMMENCEMENT OF WORK

A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH THE OWNER, PROJECT ENGINEER, AND CONTRACTOR BEFORE ANY CONSTRUCTION BEGINS. AT THE PRE-CONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE REFLECTING ALL WORK THAT IS TO BE CONDUCTED AND SECURE ANY NECESSARY LICENSES.

THE OWNER SHALL SECURE OHIO EPA PERMIT TO INSTALL, ALL ROAD PERMITS AND PRIVATE EASEMENTS. CONTRACTOR SHALL SECURE ALL OTHER NECESSARY PERMITS, PAY ANY INSPECTION, TAP OR CONNECTION FEES UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, A MINIMUM OF FIVE (5) DAYS BEFORE BEGINNING WORK, HOLIDAYS AND WEEKENDS EXCLUDED. WHEN THE CONTRACTOR SUSPENDS OPERATIONS FOR TWO (2) OR MORE WORKING DAYS, HE SHALL NOTIFY THE PROJECT ENGINEER, A MINIMUM OF TWENTY-FOUR (24) HOURS BEFORE RESUMING WORK.

AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UTILITY FACILITY SHOWN IN THE PLANS.

WHERE IT IS ANTICIPATED THAT WORK WILL CLOSE A STREET, THE CONTRACTOR SHALL INFORM THE RESIDENTS TO BE AFFECTED, THE OWNER, POLICE DEPARTMENT, THE FIRE DEPARTMENT, AND THE COUNTY ENGINEER AS TO THE EXTENT, NATURE, AND THE TIME OF THE ANTICIPATED WORK. NO STREET SHALL BE CLOSED UNTIL THE SCHEDULE IS APPROVED BY THE OWNER, VIA THE PROJECT ENGINEER.

## G9 - SANITARY FACILITIES

THE CONTRACTOR SHALL FURNISH AND MAINTAIN SANITARY CONVENIENCE FACILITIES FOR WORKERS AND INSPECTORS FOR THE DURATION OF THE WORK.

## G10 - USE OF FIRE HYDRANTS

THE CONTRACTOR IS HEREBY NOTIFIED THAT THE USE OF FIRE HYDRANTS WILL NOT BE PERMITTED AND THAT THE USE OF FIRE HYDRANTS WILL RESULT IN THE CONTRACTOR'S PROSECUTION FOR THEFT OF A PUBLIC UTILITY. THE CONTRACTOR SHALL COORDINATE WITH THE DIVISION OF WATER TO ACCESS THE WATER SUPPLY.

## G11 - LEGAL DIMENSION AND WEIGHT LIMITS

PURSUANT TO SECTIONS 5577.04 AND 5577.05 OHIO REVISED CODE (ORC), LEGAL LIMITS FOR DIMENSIONS AND WEIGHTS FOR HIGHWAY VEHICLES WERE AMENDED EFFECTIVE OCTOBER 1, 1992. THE AMENDED ORC MAY AFFECT THE CONTRACTOR'S COST FOR PERFORMING THE VARIOUS ITEMS OF WORK ON THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FACTOR ANY ADDITIONAL COSTS RESULTING FROM THE AMENDED ORC OR LOCAL LIMITS INTO THE UNIT BID PRICE FOR THE VARIOUS ITEMS OF WORK TO BE PERFORMED ON THIS PROJECT. NO ADDITIONAL REIMBURSEMENT FOR THE COSTS WILL BE PAID BY THE OWNER.

## G12 - EMERGENCY PHONE NUMBER

THE CONTRACTOR SHALL PROVIDE THE OWNER AND PROJECT ENGINEER WITH A 24 HOUR TELEPHONE NUMBER TO READILY CONTACT A RESPONSIBLE PARTY IN THE CASE OF AN EMERGENCY. COSTS AND/OR DAMAGES INCURRED RELATED TO WORK PERFORMED BY THE CONTRACTOR IN SUCH EMERGENCIES ARE THE CONTRACTOR'S RESPONSIBILITY AND NOT THAT OF THE PROJECT ENGINEER OR OWNER.

## G13 - INCLUSIVE BID

THE CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT. COMPENSATION FOR ANY WORK WHICH DOES NOT HAVE A SPECIFIC PAY ITEM WILL BE INCLUDED IN THE PRICE BID FOR THE INDIVIDUAL ITEMS.

## G14 - WORKING HOURS

WORKING HOURS ARE LIMITED TO 7:00AM TO 7:00PM MONDAY THROUGH FRIDAY. NO WORK SHALL BE PERFORMED ON THE WEEKEND OR HOLIDAYS. CONTRACTOR SHALL RESTRICT HIS WORK DURING HUNTING SEASON ON A PROPERTY IF REQUESTED BY A PROPERTY OWNER.

## G15 - RECORD DRAWINGS

THE CONTRACTOR SHALL PREPARE AND MAINTAIN A SET OF RECORD CONSTRUCTION DRAWINGS AS HIS WORK ON THE PROJECT PROGRESSES. THE RECORD DRAWINGS SHALL DOCUMENT ALL DEVIATIONS FROM THE ORIGINAL DRAWINGS AS WELL AS DOCUMENT THE LOCATION AND EXTENT OF ANY UNFORESEEN CONDITIONS OR OBSTRUCTIONS. THE RECORD CONDITIONS SHALL BE SHOWN IN RED AND ANY PLAN CHANGES SHALL BE OUTLINED. THE CONTRACTOR SHALL BRING THE RECORD DRAWINGS TO ALL CONSTRUCTION PROGRESS MEETINGS FOR THE OWNER'S GENERAL MANAGER'S REVIEW.

THE CONTRACTOR IS RESPONSIBLE FOR HAVING 1 CLEAN SET OF THE RECORD CONSTRUCTION DRAWINGS SENT TO THE PROJECT ENGINEER AFTER THE PROJECT IS COMPLETED. THE PLANS MUST INCLUDE THE FOLLOWING:

1. LOCATIONS OF ALL WATER LINES, VALVES, HYDRANTS AND SERVICES.
2. IDENTIFY ALL FIELD MODIFICATIONS TO THE APPROVED PLAN SET.
3. LOCATIONS OF ANY LOCATED UTILITIES WITHIN THE PROJECT CORRIDOR.

## G16 - NON-RUBBER TIRE VEHICLES

NO NON-RUBBER TIRE VEHICLES SHALL BE MOVED ON ANY STREETS. EXCEPTIONS MAY BE GRANTED BY THE OWNER WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE PROJECT ENGINEER. THE CONTRACTOR SHALL USE EXTREME CARE WHEN OPERATING NON-RUBBER TIRE VEHICLES ON STREETS OR DRIVEWAYS TO AVOID MARKING OR DAMAGING THE PAVEMENT. PROTECTION OF THE PAVEMENT FROM DAMAGE RESULTING FROM THE TRACKS OF NON-RUBBER TIRE VEHICLES UTILIZED IN TRENCH EXCAVATION SHALL BE REQUIRED. A WOOD PLANK SYSTEM, USED TIRES, RUBBER MATS OR OTHER MEANS AS APPROVED BY THE PROJECT ENGINEER SHALL BE USED TO PROTECT THE PAVEMENT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

## G17 - PROTECTION AND RESTORATION OF PROPERTY

THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND RESTORATION OF ALL PRIVATE AND PUBLIC PROPERTY IMPACTED BY THE CONTRACTOR'S OPERATIONS IN ACCORDANCE WITH SECTION 107.10 OF THE CURRENT ODOT CMS.

GRAVEL DRIVES SHALL BE REPAIRED THE SAME DAY THEY ARE CROSSED. NO ADDITIONAL PAYMENT WILL BE MADE FOR DRIVE REPAIR.

## G18 - WORK LIMITS

THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT OR THE EXISTING RIGHT-OF-WAYS, CONSTRUCTION AND/OR PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT THE WRITTEN CONSENT OF THE PROPERTY OWNER.

ALL ADJOINING PROPERTIES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE RESTORED TO THE SAME OR BETTER CONDITION. THIS INCLUDES GRADING, SEEDING, AND REMOVAL OF EXCESS MATERIAL.

## G19 - MISCELLANEOUS WORK

ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS RELATED ITEMS.

ALL EXCAVATION ON THIS PROJECT IS UNCLASSIFIED. THE CONTRACTOR SHALL MAKE ALL EXCAVATION OF WHATEVER NATURE NECESSARY FOR CONSTRUCTION OF THE PROPOSED UTILITY AND THEIR APPURTENANT STRUCTURES INCLUDED IN THIS PROJECT. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR ROCK ENCOUNTERED DURING EXCAVATION.

## G20 - FINAL CLEAN-UP

THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATIONS AND RESTORE ALL SURFACES, STRUCTURES, DITCHES, AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER AND PROJECT ENGINEER.

## G21 - INDEMNIFICATION

THE CONTRACTOR WILL INDEMNIFY AND HOLD HARMLESS THE OWNER, THE ENGINEER AND THEIR AGENTS AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING ATTORNEYS' FEES ARISING OUT OF OR RESULTING FROM PERFORMANCE OF THE WORK, PROVIDED THAT ANY SUCH CLAIMS, DAMAGE, LOSS OR EXPENSE IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE OR DEATH, OR INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY, INCLUDING THE LOSS OF USE RESULTING THEREFROM; AND IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENCE OR WILLFUL ACT OR OMISSION OF THE CONTRACTOR, AND SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM OR ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE.

IN ANY AND ALL CLAIMS AGAINST THE OWNER OR THE ENGINEER, OR ANY OF THEIR AGENTS OR EMPLOYEES, BY ANY EMPLOYEE OF THE CONTRACTOR, ANY SUBCONTRACTOR, ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, THE INDEMNIFICATION OBLIGATION SHALL NOT BE LIMITED IN ANY WAY BY ANY LIMITATION ON THE AMOUNT OR TYPE OF DAMAGES, COMPENSATION OR BENEFITS PAYABLE BY OR FOR THE CONTRACTOR OR ANY SUBCONTRACTOR UNDER WORKERS COMPENSATION ACTS, DISABILITY BENEFIT ACTS, OR OTHER EMPLOYEE BENEFIT ACTS.

THE OBLIGATION OF THE CONTRACTOR UNDER THIS PARAGRAPH SHALL NOT EXTEND TO THE LIABILITY OF THE ENGINEER, HIS AGENTS OR EMPLOYEES ARISING OUT OF THE PREPARATION OR APPROVAL OF MAPS, PLANS, OPINIONS, REPORTS, SURVEYS, CHANGE ORDERS, DESIGNS OR SPECIFICATIONS.

## G22 - PAVEMENT CLEANING

THE CONTRACTOR IS HEREBY NOTIFIED THAT HE/SHE SHALL BE RESPONSIBLE FOR CLEANING OF STREETS OR ANY MUD, DIRT, SAND, GRAVEL, STONES, OR ANY KIND OF MATERIAL THAT HAVE DEPOSITED AS A RESULT OF HIS/HER OR SUBCONTRACTOR'S OPERATIONS. PAVEMENTS SHALL BE CLEANED AT THE END OF EACH WORK DAY OR MORE OFTEN AS DETERMINED BY THE OWNER OR PROJECT ENGINEER.

## G23 - WEATHER CONDITIONS

ALL CONSTRUCTION AND MATERIAL USAGE SHALL BE IN ACCORDANCE WITH CLIMATIC CONDITIONS ADDRESSED IN CURRENT ISSUE OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS.

## G24 - WORK IN PAVEMENT

CONTRACTOR SHALL SAW CUT PAVEMENT PRIOR TO DIGGING IN PAVEMENT. CONTRACTOR SHALL FOLLOW TRENCH REPAIR DETAIL FOR REPAIRING THE PAVEMENT.

PAVEMENT SHALL NOT BE PLACED ON PREPARED SUBGRADE UNTIL SAID SUBGRADE HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER. PAVEMENT REPLACEMENT SHALL BE PERFORMED IN THE FOLLOWING SEQUENCE:

1. COMPACT BACKFILL PER THE PROJECT SPECIFICATIONS.
2. PLACE BASE LAYER OF ASPHALT OVER TACK COAT (IF ASPHALT IS LAID OVER GRANULAR BACKFILL).
3. PRIOR TO PLACEMENT OF FINISH LAYER OF ASPHALT, CONTRACTOR SHALL:
  - A. SAWCUT ANY ADDITIONAL EDGES OF EXCAVATION THAT HAVE BECOME DAMAGED
  - B. SWEEP OUT ANY DEBRIS, DUST, SAND PARTICLES, ETC.
  - C. WITH COMPRESSED AIR, BLOW OUT REMAINDER OF DEBRIS NOT REMOVED BY ABOVE PROCEDURES.
  - D. APPLY TACK COAT, PER ITEM 407, AT A RATE OF .1 GAL. PER SQUARE YARD
  - E. IMMEDIATELY PLACE FINAL LAYER OF ASPHALT.

WHERE NECESSARY TO DISTURB PAVEMENT, DRIVES, OR SIDEWALKS, THE PAVEMENT SHALL BE SAW CUT TO A DEPTH OF AT LEAST 6 INCHES AND IN NEAT STRAIGHT LINES. IF DURING CONSTRUCTION, THE PAVEMENT IS DAMAGED BEYOND THE ORIGINAL SAW CUT, THE PAVEMENT SHALL BE RECUT IN NEAT LINES.

CONTRACTOR SHALL REPAIR ALL DRIVES TO EQUAL OR BETTER THAN ORIGINAL CONDITION. NO HARD SURFACE DRIVEWAY (ASPHALT, CONCRETE, ETC.) SHALL BE OPEN CUT WITHOUT THE OWNER'S APPROVAL.

## G25 - WORK WITHIN ROAD RIGHT-OF-WAY

ALL TRENCHES WITHIN THE ROAD RIGHT-OF-WAY SHALL BE BACKFILLED OR SECURELY PLATED/PROTECTED DURING NON-WORKING HOURS.

ALL WORK REQUIRING MEN OR VEHICLES ON THE PAVEMENT OR SHOULDERS SHALL COMPLY FULLY WITH THE OHIO MANUAL OF TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE OPERATIONS AND ITEM 614 (MAINTAINING TRAFFIC) IN THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL BE JUST CAUSE FOR IMMEDIATE SUSPENSION OF THIS PERMIT UNTIL SUCH TIME THE PROPER TRAFFIC CONTROL IS IN PLACE.

THE USE OF TRAVEL LANES, STABILIZED OR UN-STABILIZED BERMS FOR THE STORAGE OF CONSTRUCTION MATERIALS OR DEPOSITING OF EXCAVATED MATERIAL IS NOT PERMITTED.

THE CONTRACTOR SHALL NOT ALLOW THE REMOVAL, DAMAGE OR RE-ERECTION OF ANY ODOT SIGNS ALONG THE PROPOSED PROJECT ROUTE. SHOULD ANY SIGNS OBSTRUCT THE PROPOSED INSTALLATION, THE CONTRACTOR SHALL NOTIFY ODOT NO LESS THAN 72 HOURS IN ADVANCE ALLOWING TIME TO SCHEDULE THE RELOCATION OF SAID OBSTRUCTION. THE CONTRACTOR SHALL FURTHER BE RESPONSIBLE FOR ANY AND ALL COST ASSOCIATED WITH THE REPLACING AND RELOCATING OF SAID SIGNS.

ALL AREAS WITHIN THE R.O.W. WHERE VEGETATION HAS BEEN DISTURBED OR DESTROYED BY CONSTRUCTION ACTIVITIES SHALL BE FERTILIZED, SEEDED AND MULCHED IN ACCORDANCE WITH ITEM 659 OF THE CURRENT ODOT CMS.

DIRT OR MUD ON THE ROAD WILL NOT BE TOLERATED. CONTRACTOR SHALL KEEP ROAD CLEAN AT ALL TIMES.

## G26 - DEWATERING

THE COST OF ANY DEWATERING OPERATIONS REQUIRED FOR THE CONSTRUCTION SHALL BE INCLUDED IN THE NECESSARY BID ITEMS. WORK SHALL INCLUDE CONSTRUCTION OF ANY NECESSARY WELLS, PUMPING, FUELING OF EQUIPMENT, ETC. IN ORDER TO KEEP WATER OUT OF EXCAVATIONS DURING THE CONSTRUCTION. ALL DEWATERING FLOWS SHALL BE KEPT FREE OF SILT, SEDIMENTS, DEBRIS, AND OTHER POLLUTANTS THROUGH APPROPRIATE MEANS (SETTLING BASINS, FILTER, ETC.), AND FOLLOWING THIS, THE FLOWS SHALL ONLY BE RELEASED DIRECTLY INTO STORM SEWERS, STREAM CHANNELS, OR OTHER STABILIZED DRAINAGE COURSES AND NOT ONTO EXPOSED SOILS, STEEP SLOPES, OR ANY OTHER SITE WHERE FLOWS COULD CAUSE FURTHER EROSION. ANY WELL, WELL POINT, PIT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER LEVEL TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN OR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE. ANY PERSON INSTALLING ANY WELL, WELL POINT, PIT OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF WATER, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH OHIO REVISED CODE SECTION 1521.01 AND 1521.05.

## G27 - ROCK EXCAVATION

THE COST OF ANY ROCK EXCAVATION SHALL BE INCLUDED IN THE UNIT BID PRICE FOR PIPE. THE BIDDER SHALL DETERMINE IF ANY ROCK EXCAVATION WILL BE REQUIRED AND ADJUST HIS BIDS ACCORDINGLY. ALL LABOR, MATERIAL, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO REMOVE THE ROCK SHALL BE FURNISHED AND INSTALLED IN PLACE INCLUDING BEDDING.

## G28 - DUST CONTROL

DURING EARTHWORK OPERATIONS THE CONTRACTOR SHALL APPLY A DUST PALLIATIVE PER ODOT ITEM 616.

## G29 - ROADWAY PRE-CONSTRUCTION VIDEO

THE CONTRACTOR SHALL SUBMIT A ROADWAY/ROW PRE-CONSTRUCTION VIDEO TO THE OWNER PRIOR TO THE START OF CONSTRUCTION.

PRE-CONSTRUCTION VIDEO SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE. VIDEO FOOTAGE SHALL BE OF QUALITY ACCEPTABLE TO OWNER AND SUFFICIENT TO DOCUMENT EXISTING CONDITION OF ROAD, ABOVE-GRADE UTILITIES, AND OTHER ITEMS LOCATED WITHIN THE RIGHT-OF-WAY ALONG THE PROPOSED WATERLINE. IF QUALITY IS NOT ACCEPTABLE TO THE OWNER, THE CONTRACTOR SHALL RECREATE VIDEO AT NO COST TO THE OWNER. A COPY OF THE VIDEO SHALL BE PROVIDED TO THE OWNER.

## G30 - SEQUENCE OF CONSTRUCTION

CONTRACTOR SHALL PROVIDE A SEQUENCE OF CONSTRUCTION PRIOR COMMENCING WORK.

## G31 - TREE CLEARING

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAR TREES AND BRUSH WITHIN THE UTILITY EASEMENT IN ORDER TO CONSTRUCT THE WATERLINE WITHIN THE UTILITY EASEMENT. NO TREES OR BRUSH SHALL BE DAMAGED OR REMOVED OUTSIDE THE EASEMENT WITHOUT WRITTEN PERMISSION PROVIDED BY THE OWNER. WHERE TREES AND BRUSH CLEARING IS NEEDED ON THE OWNER'S PROPERTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING A 20' WIDE AREA TO CONSTRUCT THE WATERLINE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND PROPERLY DISPOSE ALL STUMPS, TREES AND BUSH REMOVED.

## G32 - ENDANGERED SPECIES

THE PROJECT IS WITHIN THE RANGE OF THE INDIANA BAT (MYOTIS SODALIS) WHICH IS A FEDERALLY LISTED ENDANGERED SPECIES PROTECTED UNDER THE ENDANGERED SPECIES ACT. UNAVOIDABLE CUTTING OF TREES WITH SUITABLE ROOSTING AND BROOD REARING HABITAT FOR THE BAT (TREE SPECIES WITH EXFOLIATING BARK SUCH AS HICKORY AND OAK, LIVING OR STANDING DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES, OR CAVITIES) SHALL BE PERFORMED ONLY BEFORE APRIL 1 OR AFTER SEPTEMBER 30 WHEN THE BAT WOULD NOT BE USING SUCH HABITAT. IF THIS TIME FRAME CANNOT BE FOLLOWED, THE US FISH & WILDLIFE SERVICE (614-416-8993 COLUMBUS OFFICE) AND OHIO EPA-DEFA (ISABELLA ARISTIZABAL 614-644-2278) MUST BE CONTACTED FOR GUIDANCE TO CONDUCT AN EMERGENCY SURVEY TO DOCUMENT THE ABSENCE OR PRESENCE OF THE BATS.

## G33 - RECLAMATION

CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS. THE LAWNS/UTILITY STRIPS SHALL BE GRADED FOR POSITIVE DRAINAGE, FREE OF ROCKS AND DEBRIS, SEEDED AND MULCHED WITHIN 30 DAYS OF DISTURBANCE. CONTRACTOR SHALL PROVIDE KENTUCKY BLUEGRASS SEED UNLESS OTHER SEED MIX IS PREFERRED MY OWNER.

## G34 - MOT PLAN

CONTRACTOR SHALL PROVIDE A MOT PLAN FOR ALL WORK AT THE PRE-CONSTRUCTION MEETING FOR APPROVAL. ALL WORK REQUIRING MEN OR VEHICLES ON THE PAVEMENT OR SHOULDERS SHALL COMPLY FULLY WITH THE OHIO MANUAL OF TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE OPERATIONS AND ITEM 614 (MAINTAINING TRAFFIC) IN THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE CONTRACTOR SHALL MAINTAIN TRAFFIC ON ZANE STREET (STATE ROUTE 666) FOR THE DURATION OF THE PROJECT, INCLUDING TRACTOR-TRAILER TRAFFIC. ONE (1) LANE SHALL REMAIN OPEN AT ALL TIMES, AND TWO-WAY TRAFFIC SHALL BE MAINTAINED USING FLAGGERS. QUEUING AND TRAFFIC BACKUPS THAT BLOCK THE INTERSECTION OF ZANE STREET AND UNDERWOOD STREET SHALL NOT BE PERMITTED. THE CONTRACTOR SHALL ALSO MAINTAIN TRAFFIC ON MONROE STREET WITH A MINIMUM OF ONE (1) LANE OPEN AT ALL TIMES. TEMPORARY CLOSURES OF TURNING LANES AND SIDE-STREET ACCESS MAY BE PERMITTED DURING WORKING HOURS WITH APPROVAL. EMERGENCY ACCESS TO BUILDINGS AND SIDE STREETS SHALL BE MAINTAINED AT ALL TIMES.

PROVIDE A MESSAGE BOARD AT THE INTERSECTION OF ZANE STREET AND UNDERWOOD STREET AND AT THE INTERSECTION OF STATE ROUTE 666 AND ADAMSVILLE ROAD AT LEAST TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE THE APPROPRIATE MESSAGING TO BE DISPLAYED ON THE TRAFFIC MESSAGE BOARD.

## R01 - PERMANENT MULCHING

MULCH MATERIAL SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. DORMANT SEEDING SHALL BE MULCHED. 100% OF THE GROUND SURFACE SHALL BE COVERED WITH AN APPROVED MATERIAL.

### MATERIALS:

STRAW—IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT A RATE OF 2 TONS PER ACRE OR 90 LBS./1,000 SQ. FT. (2-3 BALES)

HYDROSEEDERS—IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 200LBS./AC. OR 46LB./1,000SQ.FT.

STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.

MECHANICAL—A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY, BE LEFT LONGER THAN 6 INCHES.

MULCH NETTING—NETTING SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.

## R02 - SEEDBED PREPARATION

LIME—AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACID SOIL AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 POUNDS PER 1,000-SQ. FT. OR 2 TONS PER ACRE.

FERTILIZER—FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN PLACE OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AT A RATE OF 25 POUNDS PER 1,000-SQ. FT. OR 1000 POUNDS PER ACRE OF A 10-10-10 OR 12-12-12 ANALYSES.

THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 INCHES. ON SLOPING LAND, THE SOIL SHALL BE WORKED ON THE CONTOUR.

## R03 - SEEDING DATES AND SOIL CONDITIONS

SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THE ABOVE SPECIFIED DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHOULD BE DONE WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. FOR WINTER SEEDING, SEE THE FOLLOWING SECTION ON DORMANT SEEDING.

## R04 - DORMANT SEEDINGS

SEEDINGS SHOULD NOT BE MADE FROM OCTOBER 1 THROUGH NOVEMBER 20. DURING THIS PERIOD, THE SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.

THE FOLLOWING METHODS MAY BE USED FOR "DORMANT SEEDING":

FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOVEMBER 20, AND BEFORE MARCH 15, BROADCAST THE SELECTED SEED MIXTURE. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.

FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDBED, LIME AND FERTILIZE. APPLY THE SELECTED SEED MIXTURE, MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.

APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) ON A FIRM, MOIST SEEDBED.

WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND, SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHERE FEASIBLE.

## R05 - IRRIGATION

PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY WEATHER OR ON ADVERSE SITE CONDITIONS, WHICH REQUIRE ADEQUATE MOISTURE FOR SEED GERMINATION AND PLANT GROWTH. IRRIGATION RATES SHALL BE MONITORED TO PREVENT EROSION AND DAMAGE TO SEEDED AREAS FROM EXCESSIVE RUNOFF.

## R06 - SEED MIX

CONTRACTOR SHALL USE KENTUCKY BLUEGRASS. APPLICATION RATE SHALL BE 100-120 LBS/AC (2 LBS/1,000 SQ.FT.) CONTRACTOR SHALL ALSO PLACE PERENNIAL RYEGRASS ON THE DISTURBED AREA.

## CONSTRUCTION NOTES

CONTRACTOR SHALL DELIVER ANY SALVABLE MATERIAL TO CITY MAINTENANCE BUILDING ON CENTRAL AVENUE. ALL OTHER MATERIAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DISPOSE OF PROPERLY PER LOCAL AND STATE CODE.

THE CONTRACTOR SHALL INCLUDE ALL NECESSARY MATERIAL, LABOR, EQUIPMENT, ETC. COST WITHIN BID TO COMPLETE THE PROJECT AS DETAILED.

THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION SCHEDULE AT THE PRE-CONSTRUCTION MEETING. NO WORK SHALL BE DONE WITHOUT THE APPROVAL OF THE CONSTRUCTION SCHEDULE.



MUSKINGUM - OHIO  
**CITY OF ZANESVILLE**  
**BLANDY WATERLINE RELOCATION**  
**LOW PRESSURE SYSTEM - PHASE I**  
**GENERAL NOTES**

No.
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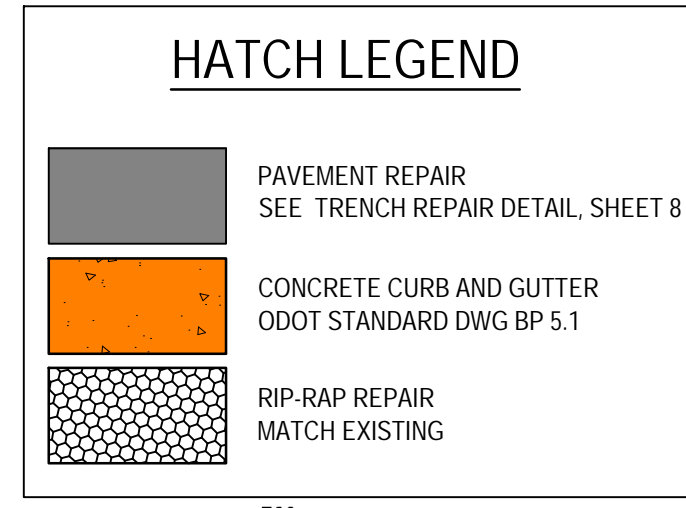
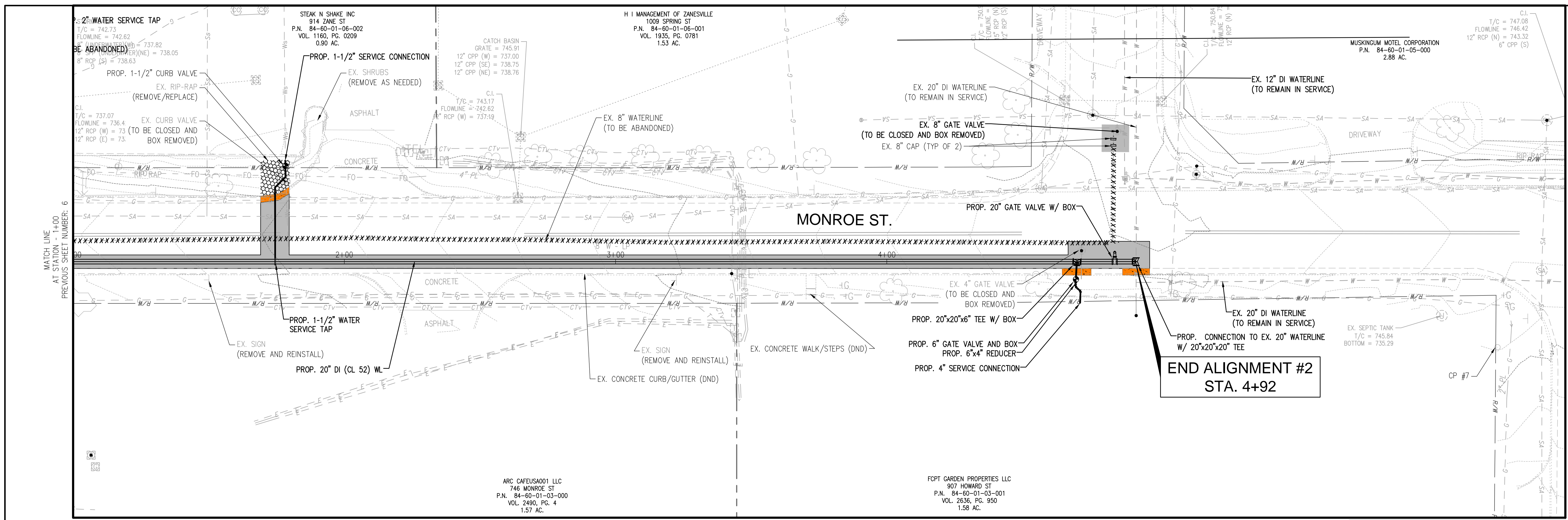
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- NOTES:
- EXISTING GATE VALVES AND CURB VALVES THAT WILL BE TAKEN OUT OF SERVICE SHALL BE CLOSED AND BOXES PULLED. IF THE EXISTING CURB VALVE IS BETWEEN THE RECONNECTION POINT AND THE BUILDING, THE CONTRACTOR SHALL CAP EXISTING SERVICE LINE. THE EXISTING HYDRANTS INDICATED TO BE TAKEN OUT OF SERVICE SHALL BE REMOVED/DELIVERED TO THE OWNER AND THE WATCH VALVE CLOSED. ANY SALVAGEABLE MATERIAL TO BE DELIVERED TO OWNER. THE PROPOSED WATERLINE SHALL BE IN SERVICE AND PROVIDE A 24 HOUR NOTICE TO THE OWNER PRIOR TO PERFORMING ANY OF THIS WORK.
  - EXISTING UTILITIES SHOWN ARE BASED ON MARKINGS IN THE FIELD PICKED UP BY SURVEY AND GIS INFORMATION PROVIDED BY THE UTILITY OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PLACE AN OUPS TICKET AND FIELD LOCATE UTILITIES PRIOR TO BEGINNING WORK. CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER OF ANY CONFLICTS PRIOR TO MAKING ANY CHANGES. ELEVATIONS SHOWN IN THE PROFILE ARE FOR REFERENCE ONLY.
  - ALL ABANDONED WATERLINES/SERVICES THAT ARE CUT SHALL BE CAPPED. ALL WATERLINES 16" AND LARGER DIAMETER THAT ARE BEING ABANDONED INSIDE THE R/W SHALL BE PRESSURE GROUTED WITH LIGHTWEIGHT CELLULAR CONCRETE.

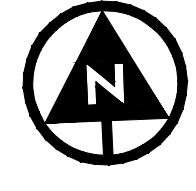
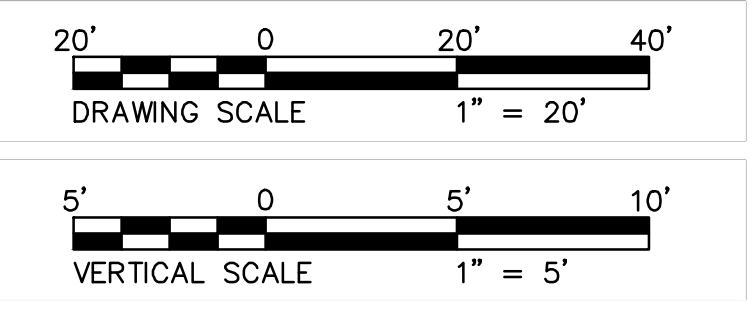
<p style="font-size: 8px; margin: 0;">1655 WEST MAIN STREET NEWARK, OH 43065-3839 TEL. 740.344.5451</p>	
<p><b>MUSKINGUM-OHIO</b></p> <p><b>CITY OF ZANESVILLE</b></p> <p><b>BLANDY WATERLINE RELOCATION</b></p> <p><b>LOW PRESSURE SYSTEM - PHASE I</b></p> <p><b>DEMO PLAN</b></p>	
<p>CHKD BY</p> <p>TJM</p>	<p>DESIGNED BY</p> <p>TJM</p>
<p>DATE</p> <p>11/20/2025</p>	<p>DRAWN BY</p> <p>DJH</p>
<p>NO.</p> <p>1</p>	<p>REVISION</p> <p>REVISED FOR PTT SUBMITTAL</p>
<p>NO.</p> <p>2</p>	<p>REVISION</p> <p>REVISED FOR BIDDING</p>
<p>CHECKED BY</p> <p>TJM/CAB</p>	
<p>PROJECT NO.</p> <p>20379</p>	
<p>DATE</p> <p>11/20/2025</p>	
<p>SCALE</p> <p>AS SHOWN</p>	
<p>SHEET</p> <p style="font-size: 24px; font-weight: bold;">5</p>	



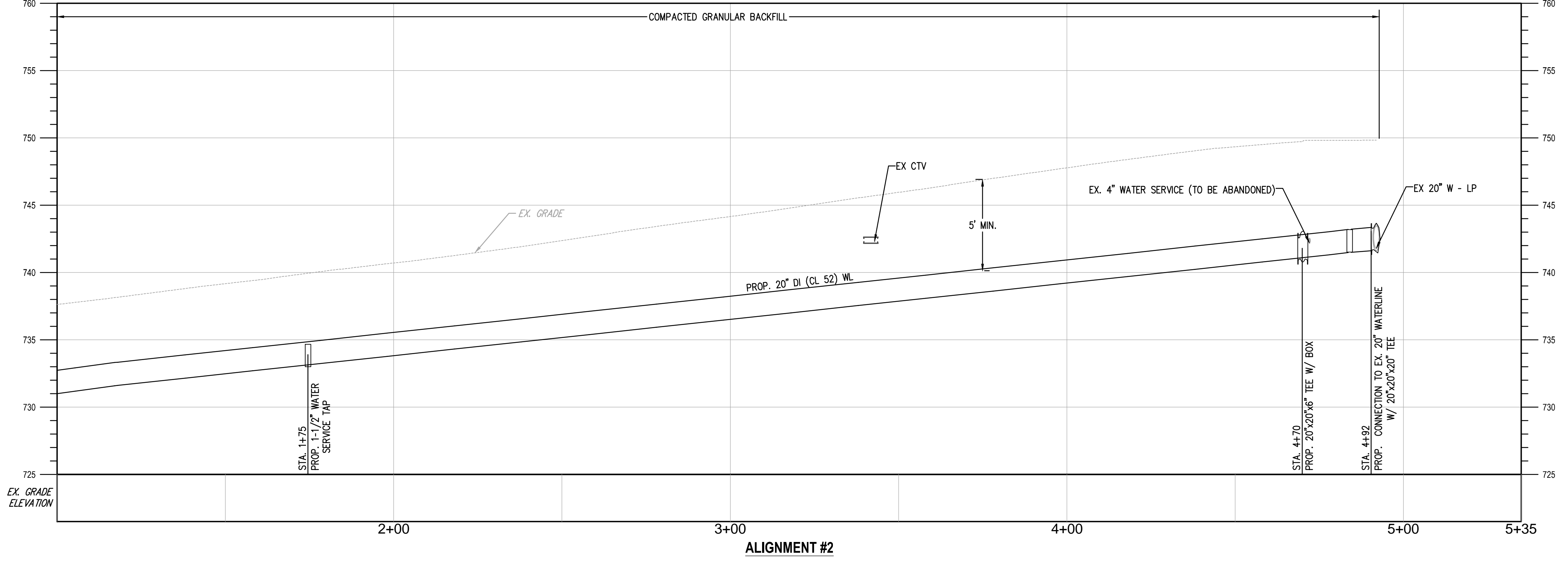




- NOTES:
- EXISTING GATE VALVES AND CURB VALVES (IF CURB VALVE IS DOWNSTREAM OF CONNECTION, CONTRACTOR SHALL CAP EXISTING SERVICE LINE) TO BE CLOSED AND BOXES PULLED. EXISTING HYDRANTS SHALL BE REMOVED. ALL SALVAGEABLE MATERIAL TO BE DELIVERED TO OWNER. THE PROPOSED WATERLINE SHALL BE IN SERVICE AND PROVIDE A 24 HOUR NOTICE TO THE OWNER PRIOR TO PERFORMING ANY OF THIS WORK.
  - EXISTING UTILITIES SHOWN ARE BASED ON MARKINGS IN THE FIELD PICKED UP BY SURVEY AND GIS INFORMATION PROVIDED BY THE UTILITY OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PLACE AN OUPS TICKET AND FIELD LOCATE UTILITIES PRIOR TO BEGINNING WORK. CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER OF ANY CONFLICTS PRIOR TO MAKING ANY CHANGES. ELEVATIONS SHOWN IN THE PROFILE ARE FOR REFERENCE ONLY.
  - NO TRAFFIC LIGHT CONTROL WIRES ARE SHOWN. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF ANY WIRES ARE CUT DURING CONSTRUCTION.
  - CONTRACTOR SHALL PROVIDE A MOT PLAN FOR ALL WORK 3 WEEKS PRIOR TO BEGINNING ANY WORK TO THE OWNER FOR APPROVAL. SEE GENERAL NOTES SHEET FOR MORE DETAIL.
  - CONTRACTOR SHALL PROVIDE A 72 HOUR NOTICE PRIOR TO BEGINNING ANY WORK. CONTRACTOR SHALL PROVIDE A 48 HOUR NOTICE FOR ANY DISRUPTIONS TO THE WATER SERVICE. MAXIMUM DISRUPTION DURING WORKING HOURS SHALL BE 2 HOURS.
  - ANY DAMAGED CONCRETE CURB AND GUTTER FROM CONSTRUCTION SHALL BE REPLACED PER ODOT STANDARD CURB DRAWING (BP-5.1). CONTRACTOR SHALL MATCH EXISTING CURB TYPE.
  - ALL ABANDONED WATERLINES/SERVICES THAT ARE CUT SHALL BE CAPPED. ALL WATERLINES 16" AND LARGER DIAMETER THAT ARE BEING ABANDONED INSIDE THE R/W SHALL BE PRESSURE GROUTED WITH LIGHTWEIGHT CELLULAR CONCRETE.



NO.	REVISION	CHKD BY	DESIGNED BY
1	REVISED FOR PTTI SUBMITTAL	TJM	TJM
2	REVISED FOR BIDDING	JAK	DJH
			CHECKED BY
			TJM/CAB
			PROJECT NO.
			20379



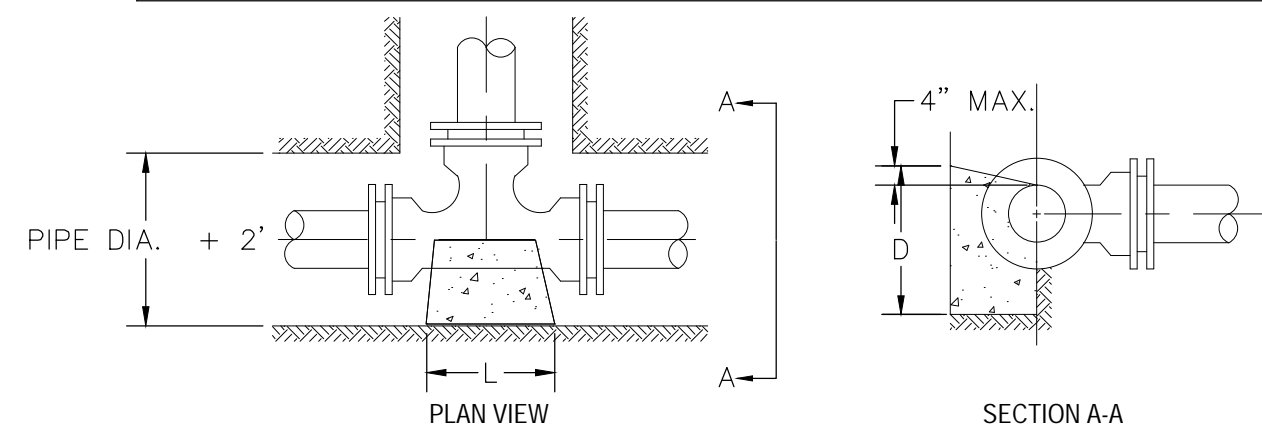
MUSKINGUM-OHIO  
**CITY OF ZANESVILLE**  
BLANDY WATERLINE RELOCATION  
LOW PRESSURE SYSTEM - PHASE I  
PLAN SHEET

DATE	11/20/2025
SCALE	1" = 20'
SHEET	<b>7</b>

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R U N	BRANCH																			
	3"		4"		6"		8"		12"		16"		20"		24"					
	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.		
3"	12	5	0.5																	
4"	10	6	0.5	11	8	0.8														
6"	9	7	0.5	11	8	0.8	18	12	1.9											
8"	8	8	0.5	10	9	0.7	18	12	1.9	23	16	3.5								
12"	6	12	0.6	8	12	0.8	18	12	1.9	23	16	3.5	38	22	8.7					
16"	6	16	0.8	6	16	0.8	14	16	2.0	20	18	3.3	36	23	8.7	49	30	13.6		
20"	6	20	1.0	6	20	1.0	11	20	1.9	18	20	3.3	35	24	8.7	46	32	13.6	60	
24"	6	24	1.2	6	24	1.2	9	24	1.9	15	24	3.3	30	28	8.7	42	36	14.0	54	
																			48	
																				45.4

STEEL WILL BE USED AS REQUIRED BY THE ENGINEER



### BACKING FOR TEES

NOT TO SCALE

- NOTES:
- CONCRETE SHALL BE PLACED AGAINST UNDISTURBED EARTH WITH A MINIMUM SOIL BEARING CAPACITY OF 3000 PSF.
  - CONTRACTOR SHALL PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.

SIZE OF PIPE	DEGREE OF BEND											
	11 1/4°		22 1/2°		45°		90°					
	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.			
3"	4	3	0.1	6	4	0.2	10	4	0.3	10	4	0.3
4"	5	4	0.2	9	5	0.4	14	5	0.6	14	5	0.6
6"	8	6	0.5	12	7	0.7	20	8	1.4	18	9	1.7
8"	9	8	0.7	16	9	1.4	24	12	2.7	25	11	4.0
12"	14	12	1.8	24	14	3.6	36	18	6.8	32	18	10.7
16"	18	16	3.4	32	18	6.7	36	32	13.4	41	26	25.4
20"	25	20	6.4	30	30	11.5	49	36	20.5	50	32	46.5
24"	27	24	9.0	39	34	18.4	60	42	35.0	58	40	77.7

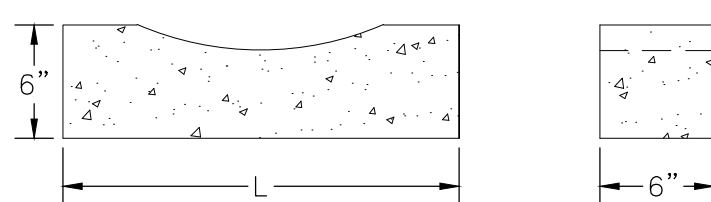
STEEL WILL BE USED AS REQUIRED BY THE ENGINEER

### BACKING FOR VERTICAL SAGS AND HORIZONTAL BENDS

NOT TO SCALE

- NOTES:
- CONCRETE SHALL BE PLACED AGAINST UNDISTURBED EARTH WITH A MINIMUM SOIL BEARING CAPACITY OF 3000 PSF.
  - CONTRACTOR SHALL PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.

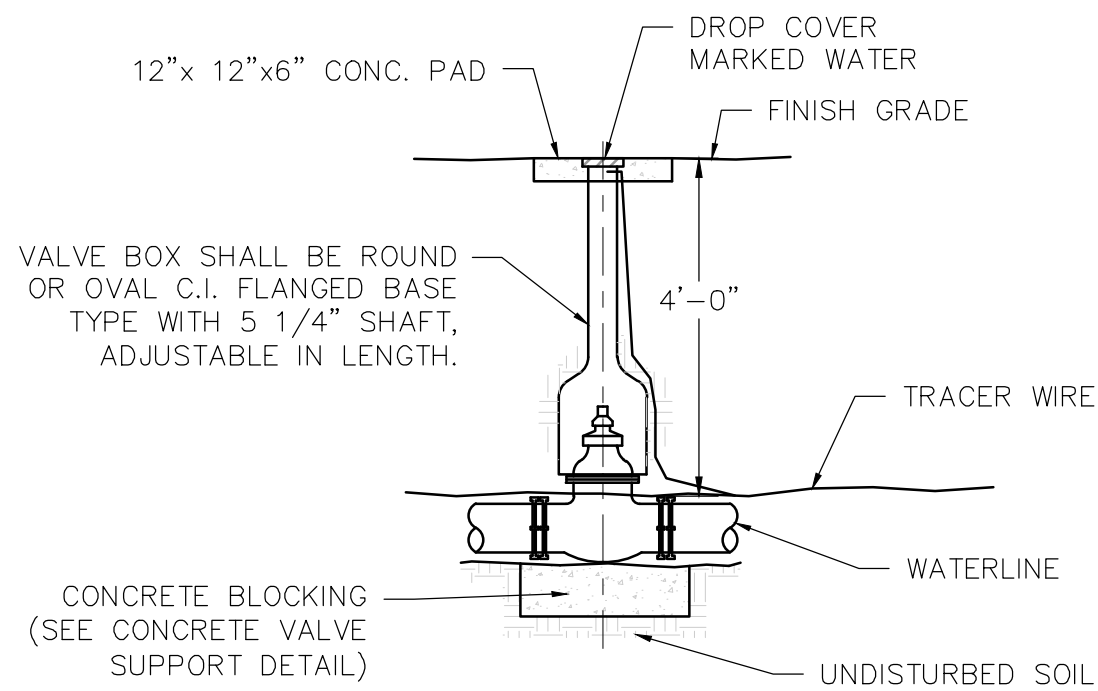
VALVES	SIZE OF VALVE	L	VOLUME CU-FT
	4"	16"	0.33
	6"	17"	0.36
	8"	20"	0.42
	12"	24"	0.50
	16"	30"	0.63
BUTTERFLY VALVES	20"	36"	0.75
	24"	42"	0.88
	30"	48"	1.00



### CONCRETE VALVE SUPPORT

NOT TO SCALE

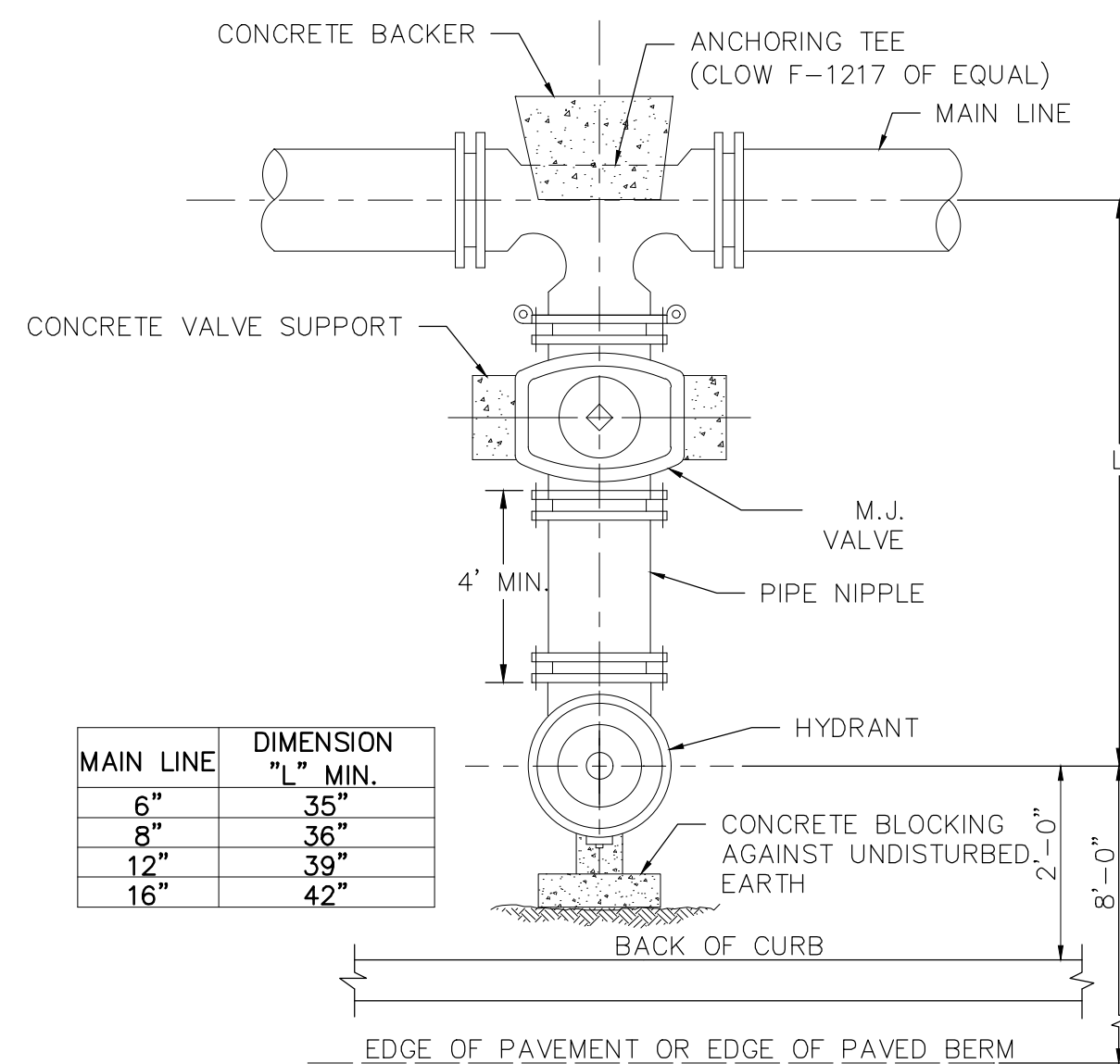
- NOTES:
- CONCRETE SHALL BE PLACED AGAINST UNDISTURBED EARTH WITH A MINIMUM SOIL BEARING CAPACITY OF 3000 PSF.
  - CONTRACTOR SHALL PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.



### 16" AND SMALLER GATE VALVE AND BOX

NOT TO SCALE

- NOTES:
- TRACER WIRE SHALL BE SPLICED AT EACH VALVE BOX WHICH SHALL JOIN ALL TRACER WIRES THAT LEAD TO THE VALVE BOX TO AN EXTENSION WIRE WHICH IS TO EXTEND FROM THE SPLICE INTO THE VALVE BOX. THE WIRE SHALL BE RAN ALONG THE OUTSIDE OF THE VALVE BOX AND THEN BROUGHT INSIDE THE VALVE BOX APPROXIMATELY FOUR (4) INCHES BELOW GRADE THROUGH A 1/4" HOLE.
  - GATE VALVES SHALL CONFORM TO THE LATEST STANDARD SPECIFICATIONS OF THE AMERICAN WATER WORKS ASSOCIATION, SECTION C-509 FOR RESILIENT SEATED VALVES. ALL GATE VALVES SHALL BE OF THE SAME CLASS AS THE PIPE ON WHICH THEY ARE INSTALLED. VALVES SHALL HAVE JOINT ENDS COMPATIBLE WITH TYPE OF PIPE USED, NON-RISING STEMS, 2" SQUARE OPERATING NUT, AND SHALL OPEN "LEFT".
  - GATE VALVES 2 1/2" AND SMALLER SHALL BE OF AN ENGINEER APPROVED MANUFACTURER AND SUITABLE FOR THE SERVICE REQUIRED. ALL VALVES SHALL HAVE OPENINGS THROUGH THE BODY OF THE SAME CIRCULAR AREA AS THAT OF THE PIPE TO WHICH THEY ARE ATTACHED. ALL VALVES SHALL BE DESIGNED TO TAKE THE FULL UNBALANCED PRESSURE UPON EITHER FACE.

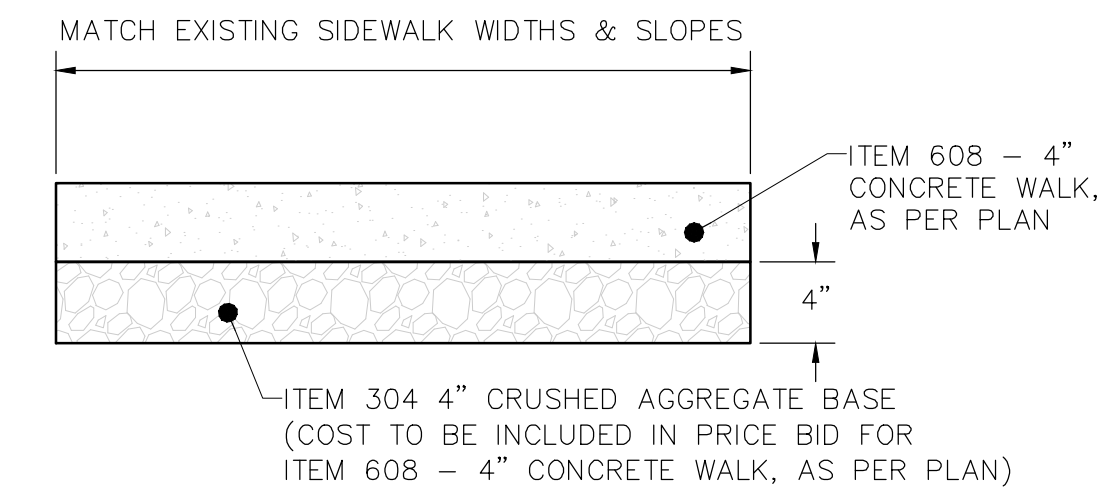


### TYPICAL HYDRANT SETTING

NOT TO SCALE

- NOTES:
- AT 2" FLUSHING HYDRANT INSTALLATIONS A MINIMUM OF TWO (2) 3/4" ALL-THREAD RODS SHALL BE UTILIZED AT EACH LOCATION DESIGNED. AT 6" FLUSHING HYDRANTS UTILIZE THREE (3) ALL-THREAD RODS AT EACH LOCATION.
  - PIPE NIPPLE SHALL MEET PRESSURE CLASS OF MAIN LINE WHERE HYDRANT IS INSTALLED.
  - CONTRACTOR SHALL INCLUDE IN UNIT PRICE FOR EACH HYDRANT SETTING A 5' PIPE NIPPLE. ADDITIONAL PIPE QUANTITY TO BE PAID AT UNIT BID PRICE OR AGREED UPON UNIT PRICE.
  - GRANULAR FILL SHALL BE PLACED AROUND BASE OF HYDRANT TO FACILITATE DRAINAGE FROM WEEP HOLE. FILL SHALL BE WASHED RIVER GRAVEL A MINIMUM OF 12" DEEP.
  - HYDRANTS SHALL BE SET A MINIMUM OF 6' FROM ALL DRIVEWAY OPENINGS.
  - HYDRANT SHALL HAVE A MAXIMUM BURY DEPTH OF 7'-0". MODIFICATION OF THE THE HYDRANT LEAD TO MEET THIS REQUIREMENT SHALL BE MADE IN THAT SECTION FROM THE VALVE TO THE HYDRANT AS PER STANDARD DETAIL L-7601.
  - HYDRANT SHALL COMPLY WITH OWNER'S SPECIFICATIONS.

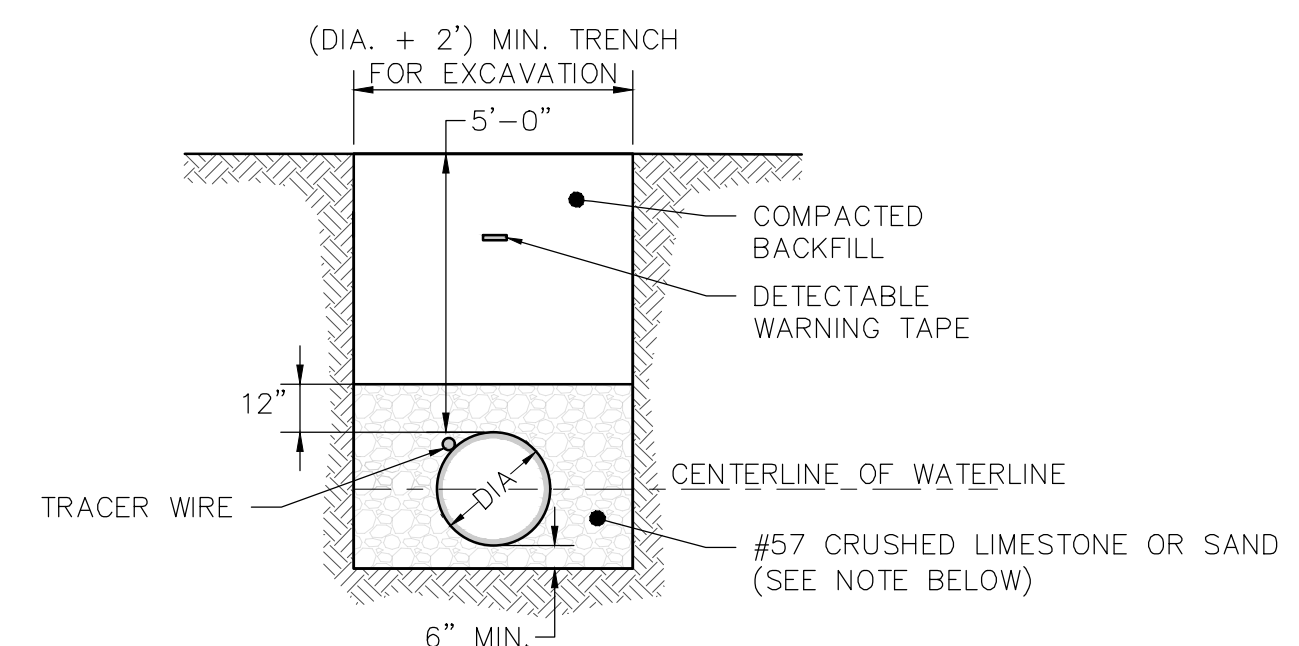
MAIN LINE	DIMENSION "L" MIN.
6"	35"
8"	36"
12"	39"
16"	42"



### CONCRETE SIDEWALK REPLACEMENT DETAIL

NOT TO SCALE

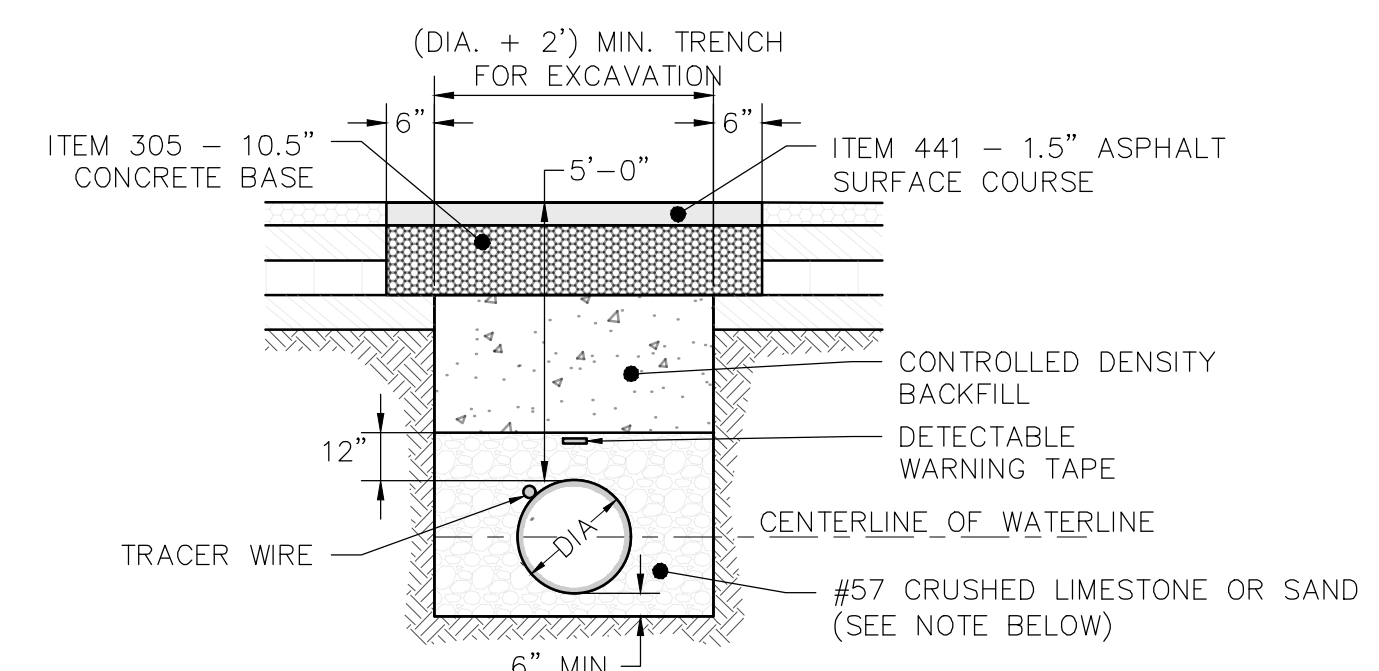
- NOTES:
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE PERTINENT SECTION OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS.
  - EXPANSION JOINTS SHALL BE PLACED WHEREVER NEW CONCRETE TOUCHES EXISTING CONSTRUCTION AND AT INTERVALS OF 30' OR LESS CONSTRUCTION JOINTS SHALL BE AT 5' INTERVALS.
  - ALL UTILITY BOXES, MANHOLES, ETC. IN THE SIDEWALK AREA SHALL BE ADJUSTED TO PROPER GRADE.
  - FORMS SHALL BE MADE OF LUMBER 2" NOMINAL THICKNESS OR OF EQUALLY RIGID METAL.
  - IMMEDIATELY AFTER FINISHING, CONCRETE SHALL BE CURED IN AN APPROVED MANNER.
  - NOTIFY THE OWNER WHEN FORMS WILL BE READY FOR INSPECTION, AT LEAST 24 HOURS BEFORE CONCRETE IS TO BE PLACED.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE CONCRETE SIDEWALKS FROM VANDALISM AND ACCIDENTAL DAMAGE DURING CURING. DAMAGED/VANDALIZED SECTIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.



### WATERLINE TRENCH DETAIL IN GRASSY AREA

NOT TO SCALE

- NOTE: BED AND HAUNCH DUCTILE IRON WATERLINE PER THE DETAIL ABOVE USING #57 CRUSHED LIMESTONE, SUPERSEDING THE CITY OF ZANESVILLE'S WATERLINE INSTALLATION SPECIFICATIONS. ALL OTHER PIPING MATERIAL SHALL BE BED AND HAUNCHED PER THE CITY OF ZANESVILLE'S WATERLINE INSTALLATION SPECIFICATION.



### WATERLINE TRENCH DETAIL IN ASPHALT PAVEMENT

NOT TO SCALE

- NOTE: BED AND HAUNCH DUCTILE IRON WATERLINE PER THE DETAIL ABOVE USING #57 CRUSHED LIMESTONE, SUPERSEDING THE CITY OF ZANESVILLE'S WATERLINE INSTALLATION SPECIFICATIONS. ALL OTHER PIPING MATERIAL SHALL BE BED AND HAUNCHED PER THE CITY OF ZANESVILLE'S WATERLINE INSTALLATION SPECIFICATION.

DESIGNED BY	TJM	DRAWN BY	DJH	CHECKED BY	TJM/CAB	PROJECT NO.	20379
CHKD BY	TJM	DATE	10/20/2025	DATE	10/20/2025		
REVISION		NO.	1	REVISOR	PTI	SUBMITTAL	
		NO.	2	REVISOR	DJH	FOR BIDDING	

MUSKINGUM-OHIO  
**CITY OF ZANESVILLE**  
**BLANDY WATERLINE RELOCATION**  
**LOW PRESSURE SYSTEM - PHASE I**  
DETAILS

DATE	11/20/2025
SCALE	AS SHOWN
SHEET	8