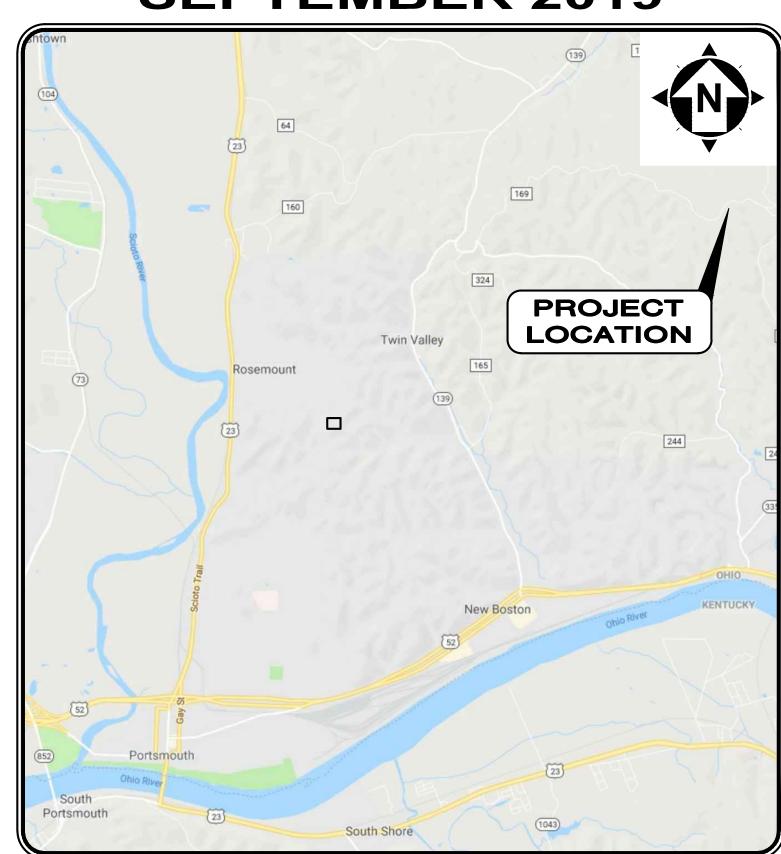
SCIOTO COUNTY REGIONAL WATER DISTRICT NO. 1

WOODS RIDGE WATER STORAGE TANK REPLACEMENT

SCIOTO COUNTY, OHIO

SEPTEMBER 2019



LOCATION MAP NOT TO SCALE



ADMINISTRATION:

JONATHAN KING JIM MEYERS KATHIE EDWARDS **EDDIE HOLSINGER**

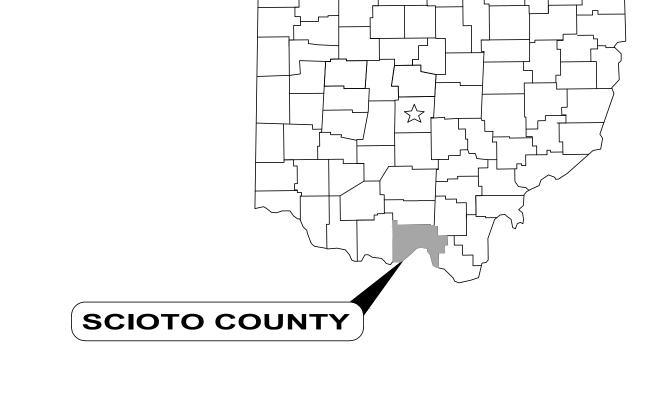
GENERAL MANAGER DISTRIBUTION SUPERINTENDENT OFFICE MANAGER/TREASURER PLANT SUPERINTENDENT

BOARD OF DIRECTORS:

KENNY CORIELL JAMES SHOEMAKER **PRESIDENT** SECRETARY

1-800-362-2764 CALL TWO WORKING DAYS BEFORE YOU DIG (NON MEMBERS MUST BE CALLED DIRECTLY)

- 1. 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
- 2. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.



APPROVALS:

| 09/19/20 | 19 |
|-------------------------------------|----|
| JONATHAN KING, GENERAL MANAGER DATE | |

OFFICE:

PROJECT SITE:

SCIOTO COUNTY REGIONAL WATER DISTRICT NO. 1 181 STATE ROUTE 728 LUCASVILLE, OH 45648

(740) 259-2301 PHONE

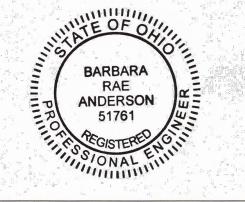
WATER STORAGE TANK C.R. 169 / WOODS RIDGE RD. PORTSMOUTH, OH 45662

ENGINEER:

CT CONSULTANTS, INC. 148 NORTH HIGH STREET GAHANNA, OH 43230

(614) 471-7310 PHONE (614) 471-7320 FAX

BARBARA R. ANDERSON



OHIO REG. No. E-51761

ENGINEER'S PROJECT No. 190795

PROJECT NO.

190795

DISCIPLINE **GENERAL**

SHEET NAME

00G-01

GENERAL NOTES:

<u>CONTRACTOR</u>: THE TERM CONTRACTOR IN THESE DOCUMENTS REFERS TO THE GENERAL CONTRACTOR, ALL SUB-CONTRACTORS, SUPPLIERS AND SERVICE SUPPLIERS PROVIDING SERVICES, MATERIAL OR LABOR DIRECTLY OR INDIRECTLY TO THIS PROJECT.

CERTIFICATION: BY SUBMITTING A BID OR STARTING CONSTRUCTION THE CONTRACTOR CERTIFIES THAT:

THE CONTRACTOR HAS VISITED THE SITE AND IS SATISFIED THAT HE UNDERSTANDS ALL SITE CONDITIONS THAT MAY HAVE AN EFFECT ON THE BID PRICE AND CONSTRUCTION SCHEDULE.

THE CONTRACTOR FULLY UNDERSTANDS THE MAKE-UP, CONSTRUCTION, AND OPERATION OF ALL SYSTEMS AND EQUIPMENT HE IS CONSTRUCTING AND THAT HE HAS INCLUDED IN HIS PRICE ALL MATERIALS, SUPPLIES, ACCESSORIES, AND SERVICES NECESSARY TO MAKE THESE SYSTEMS COMPLETE AND OPERATIONAL WHETHER SUCH MATERIALS, SUPPLIES, AND SERVICES ARE EXPLICITLY SHOWN ON THE DRAWINGS OR INCLUDED IN THESE SPECIFICATIONS OR ONLY IMPLIED BY THE CLEAR INTENT OF THESE DOCUMENTS FOR THE CONTRACTORS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM AS PART OF THE SCOPE OF WORK UNDERTAKEN BY THIS CONTRACTOR.

RESPONSIBILITY: THE OWNER DOES NOT SUPERVISE, NOR ARE THEY ENGAGED IN CONSTRUCTION. THE OWNER HAS NO CONTROL OVER OR CHARGE OF, AND THEREFORE IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT FOR CONSTRUCTION.

MSDS SHEETS: MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR ALL PRODUCTS AND/OR BUILDING MATERIALS THAT MAY CONTAIN HAZARDOUS OR TOXIC CHEMICALS SHALL BE MADE READILY AVAILABLE TO CONTRACTOR, EMPLOYEES AND OWNER'S PERSONNEL DURING CONSTRUCTION.

MAINTAINING TRAFFIC: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND CONTROLLING TRAFFIC ON ALL STREETS AND ROADS AFFECTED BY CONSTRUCTION AND SHALL, PRIOR TO ANY CONSTRUCTION, SUBMIT A CONSTRUCTION SCHEDULE TO THE OWNER FOR APPROVAL INDICATING DATES AND DURATION OF EACH PHASE OF CONSTRUCTION.

ALL CONSTRUCTION SIGNS AND TEMPORARY TRAFFIC CONTROL AND PROTECTION DEVICES SHALL BE ERECTED AND MAINTAINED IN ACCORDANCE WITH "OHIO DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND O.D.O.T. ITEM 614 - MAINTAINING TRAFFIC.

MAINTENANCE OF TRAFFIC OPERATIONS MUST ADHERE TO ALL REGULATIONS AND/OR MANDATES BY THE APPROPRIATE MAINTAINING AUTHORITY OF THE ROADWAY.

LOCAL TRAFFIC SHALL HAVE ACCESS TO THEIR RESPECTIVE PROPERTIES AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE DRIVEWAY REPLACEMENT WITH PROPERTY OWNERS AND PROVIDE THEM SUFFICIENT PRIOR NOTICE BEFORE CLOSING ANY PRIVATE DRIVES. NO PRIVATE DRIVES MAY BE CLOSED FOR MORE THAN SEVEN (7) CONSECUTIVE HOURS AND SHALL BE OPEN TO TRAFFIC AT THE END OF EACH WORKING DAY. NO SEPARATE PAYMENT WILL BE MADE.

TEMPORARY SURFACES: TEMPORARY SURFACES WHERE EXCAVATIONS ARE LOCATED IN STREETS, DRIVES AND PARKING AREAS SHALL BE FURNISHED AND PLACED BY THE CONTRACTOR AND SHALL BE FULLY MAINTAINED TO MINIMIZE INCONVENIENCE TO THE PUBLIC.

SAFETY TRENCH PROTECTION AND BACKFILLING: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENT, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL ALSO ABIDE BY ALL ORDINANCES OF THE MUNICIPALITY.

BACKFILLING SHALL FOLLOW IMMEDIATELY BEHIND CONSTRUCTION. ONLY THE MINIMUM LENGTH OF TRENCH REQUIRED FOR CONSTRUCTION SHALL BE OPEN AT ANY GIVEN TIME, AND NO EXCAVATIONS SHALL REMAIN OPEN OVERNIGHT OR BEYOND THE COMPLETION OF THE DAYS WORK.

<u>DEWATERING:</u> THE CONTRACTOR SHALL, AT ALL TIMES DURING CONSTRUCTION, PROVIDE PROPER AND SATISFACTORY MEANS AND DEVICES FOR THE REMOVAL OF ALL WATER ENTERING THE EXCAVATIONS AND SHALL REMOVE ALL SUCH WATER AS FAST AS IT MAY COLLECT IN SUCH A MANNER AS SHALL NOT INTERFERE WITH THE EXECUTION OF THE WORK.

<u>CHANGES TO WORK:</u> ANY MODIFICATIONS AND CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE THE PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER.

SITE INVESTIGATION: THE CONTRACTOR SHALL INVESTIGATE THE SITE PRIOR TO BIDDING. THE CONTRACTOR SHALL EXAMINE IN THE FIELD THE ACCESS PROBLEMS, AVAILABLE WORK AREAS, WATER CONDITIONS, NEARBY STRUCTURES, TREES, GROUND CONDITIONS AND FILL MATERIALS. FIELD VISITS SHALL BE COORDINATED WITH THE OWNER.

SURVEY MONUMENTS: ALL PROPERTY LINE MARKERS (IRON PINS, SPIKES, CONCRETE MONUMENTS, ETC.) THAT ARE LIABLE TO BE DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE REFERENCED AND PROPERLY RESET AT THE CONTRACTOR'S EXPENSE FOLLOWING CONSTRUCTION UNDER THE SUPERVISION OF A PROFESSIONAL SURVEYOR REGISTERED IN THE STATE OF OHIO.

DISPOSAL OF WASTE CONSTRUCTION MATERIALS: THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR THE DISPOSAL OF SURPLUS EXCAVATED MATERIAL AND WASTE CONSTRUCTION MATERIALS. TREES, LIMBS, BRUSH AND STUMPS REMOVED BY THE CONTRACTOR'S OPERATION SHALL BE REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF BY THE CONTRACTOR FOLLOWING OEPA REGULATIONS.

ITEMS TO BE INCLUDED: THE CONTRACTOR SHALL FURNISH ALL TOOLS, MATERIAL, LABOR AND INCIDENTALS AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL ITEMS OF WORK CALLED FOR AND/OR SHOWN IN THE DRAWINGS. MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN IN THE DRAWINGS, BUT NECESSARY TO COMPLETE THE WORK SHALL BE FURNISHED.

<u>DRAINAGE TILE:</u> FIELD DRAINAGE TILE, STORM DRAINS, UNDER DRAINS, DRIVE CULVERTS AND FIELD TILE MAY BE ENCOUNTERED DURING THE COURSE OF EXCAVATION UNDER THIS CONTRACT. THE CONTRACTOR SHALL REPAIR, REPLACE OR REROUTE THE AFFECTED TILE SO AS TO LEAVE THE DRAINAGE SYSTEM IN ORIGINAL CONDITION OR BETTER AND THE SYSTEM IN GOOD WORKING ORDER. THE COST OF WORK THIS SHALL BE INCLUDED IN THE RELATED BID ITEMS.

<u>PERMITS:</u> UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS EXCEPT OHIO EPA PERMIT TO INSTALL FOR THE PROPOSED FACILITIES AND RIGHT OF WAY PERMITS FOR THE AREAS DESIGNATED ON THE DRAWINGS.

INCIDENTAL RESTORATION: ALL SIGNS, MAILBOXES, FENCES, GUARDRAILS, ROADSIDE DITCHES, OR OTHER PHYSICAL FEATURES DISTURBED OR DAMAGED DURING WORK UNDER THIS CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR. THE COST OF ALL SUCH WORK SHALL BE INCLUDED IN BID.

GENERAL RESTORATION: ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND ELEVATION. THESE AREAS SHALL BE SEEDED AND MULCHED. THE CONTRACTOR SHALL PROVIDE A SEED BED FREE OF STONES AND OTHER DELETERIOUS MATERIALS. NINETY PERCENT OF THE SEED BED SHALL CONSIST OF GROWTH SUPPORTING MATERIAL. IF ANY QUESTION ARISES ON THE AMOUNT OF STONES OR OTHER DELETERIOUS MATERIAL THAT MAY BE CONTAINED IN THE SEED BED, THE ENGINEER MAY ORDER THAT ONE OR MORE TWO SQUARE FOOT BY FIVE INCH DEEP TEST SECTIONS BE EXCAVATED BY THE CONTRACTOR AT NO ADDITIONAL COST TO

OWNER. THIS EXCAVATED MATERIAL SHALL BE PASSED THROUGH A NUMBER 10 SIEVE. IF IT IS FOUND THAT 10 PERCENT OF THE VOLUME, BY WEIGHT, OF THE TEST SECTION CONSISTS OF STONES OR OTHER DELETERIOUS MATERIAL, THE SEED BED SHALL BE REJECTED. IF THE EQUIPMENT USED TO PREPARE THE SEED BED IS NOT CAPABLE OF REMOVING THE STONES OR DELETERIOUS MATERIAL, THE CONTRACTOR SHALL HAND RAKE THE SEED BED. IF THIS DOES NOT REMOVE ADEQUATE DELETERIOUS MATERIAL FROM THE SEED BED, THE CONTRACTOR SHALL BE REQUIRED TO SUPPLEMENT THE SEED BED WITH SUITABLE MATERIAL TO PROVIDE THE PROPER SEED BED.

SEEDING: ALL AREAS SHALL BE SEEDED AS PER THE PROJECT SPECIFICATIONS UNLESS AN ALTERNATE FORM OF SURFACE RESTORATION HAS BEEN IDENTIFIED WITHIN THE PROJECT DOCUMENTATION.

FINAL GRADING: THE FINAL GRADING OF THE COMPLETED WORK ON THIS PROJECT SHALL BE ACCOMPLISHED IN SUCH A MANNER AS TO RESTORE ALL DISTURBED AREAS, INCLUDING LAWN AREAS, DITCHES AND OTHER AREAS ADJACENT TO BERMS AND ROADWAYS. THE DISTURBED AREAS SHALL BE FINE GRADED AND SHAPED TO A CONDITION SUITABLE TO BE SEEDED AND MULCHED. THE CONTRACTOR MUST OBTAIN THE ENGINEER'S APPROVAL OF THE FINAL GRADING PRIOR TO ANY SEEDING WORK. THE COST OF ALL WORK INVOLVED IN THE FINAL GRADING SHALL BE CONSIDERED INCIDENTAL TO OTHER VARIOUS ITEMS OF WORK IN THE CONTRACT.

ALL ROAD SIDE DITCHES DISTURBED BY CONSTRUCTION SHALL BE RECONSTRUCTED TO PROVIDE POSITIVE DRAINAGE AND SHALL BE INCLUDED WITH FINAL GRADING AND RESTORATION.

<u>UNDERGROUND UTILITIES:</u> 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 SUPPORT, PROTECT, AND RESTORE ALL EXISTING UTILITIES AND THEIR ASSOCIATED ITEMS.

THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND UTILITY FACILITIES KNOWN TO BE LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UTILITY. THE OWNER AND/OR ENGINEER ASSUMES NO RESPONSIBILITIES AS TO THE ACCURACY OR THE DEPTHS OF THE UNDERGROUND FACILITIES SHOWN ON THESE DRAWINGS.

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.

WATER 1

(740) 259-2301

181 STATE ROUTE 728

LUCASVILLE, OH 45648

THE FOLLOWING IS A PARTIAL LIST OF UTILITY REGISTRATION SERVICES AND UTILITY OWNERS WHO MUST BE NOTIFIED. THE CONTRACTOR SHALL COMPLY WITH THE REGULATIONS SET FORTH BY THE RESPECTIVE ENTITIES AS LISTED:

OHIO UTILITIES PROTECTION SERVICE 12467 MAHONING AVE. NORTH JACKSON, OH 44451 (800) 362-2764

OHIO OIL AND GAS PRODUCERS UNDERGROUND PROTECTION SERVICE 88 E. BROAD ST., SUITE 1400 COLUMBUS OH, 43215 (614) 715-2984

AMERICAN ELECTRIC POWER 3225 SCIOTO TRAIL PORTSMOUTH, OH 45662 (740) 355-4659

<u>SURVEYS:</u> THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL DETAIL SURVEYS NEEDED FOR CONSTRUCTION.

ELEVATION DATUM: ALL ELEVATIONS ARE BASED ON U.S.G.S. 1988 DATUM.

WORK LIMITS: THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHTS-OF-WAY, OR CONSTRUCTION AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT WRITTEN CONSENT OF THE OWNER. EXISTING PROPERTY LINES AND RIGHTS OF WAY SHOWN ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXACT LOCATION IN ADVANCE OF CONSTRUCTION OPERATIONS.

EROSION CONTROL DEVICES AND MEASURES: THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL DEVICES AND MEASURES SO THAT THE SITE COMPLIES WITH THE REQUIREMENTS AND RECOMMENDATIONS OF THE OHIO DEPARTMENT OF NATURAL RESOURCES; RAINWATER AND LAND DEVELOPMENT MANUAL; OHIO STANDARDS FOR STORM WATER MANAGEMENT AND LAND DEVELOPMENT AND URBAN STREAM PROTECTION.

DUST CONTROL: THE CONTRACTOR SHALL RESTRICT THE EMISSION OF ALL FUGITIVE DUST AND PARTICULATE, AIRBORNE OR OTHERWISE, THAT ARISES FROM HIS OPERATION AND ACTIVITIES RELATIVE TO THIS PROJECT. DUST CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED PURSUANT TO THE APPLICABLE REQUIREMENTS OF THE OHIO ADMINISTRATIVE CODE (OAC) SECTION 3745-17-08 IN EFFECT AT THE TIME OF THE CONTRACT. SUCH MEASURES SHALL APPLY TO ACTIVITIES ON-SITE AS WELL AS OFF-SITE.

BACKING: ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE IN ACCORDANCE WITH THE SPECIFICATIONS AND BACKING DETAILS.

COVER: WATER MAINS SHALL BE LAID WITH A MINIMUM OF 4'-0" COVER FROM FINISHED GRADE TO THE TOP OF THE WATER MAIN.

GRADE CONFLICT: IN CASE OF CONFLICT IN GRADE BETWEEN WATER MAINS AND SEWERS, THE WATER MAINS SHALL BE LOWERED DURING CONSTRUCTION.

<u>CLEARANCE:</u> THE MINIMUM DISTANCE BETWEEN WATER MAINS AND SANITARY/STORM SEWERS SHALL BE 18" VERTICALLY AND 10'-0" HORIZONTALLY FROM OUTSIDE TO OUTSIDE OF THE PIPE.

<u>VALVE OPERATORS:</u> IF THE TOP OF THE OPERATING NUT FOR ANY VALVE IS MORE THAN 36" BELOW THE FINISHED GRADE, AN EXTENSION STEM SHALL BE PROVIDED TO PLACE THE OPERATING NUT BETWEEN 24" AND 36" OF THE FINISHED GRADE.

WATERLINE ACCEPTANCE: THE CONTRACTOR SHALL THOROUGHLY CLEAN, FLUSH, AND TEST THE WATER MAINS IN ACCORDANCE WITH THE REQUIREMENTS OF AWWA C600 AND/OR AWWA C605 FOR DUCTILE IRON OR PVC MAINS RESPECTIVELY AND IN ACCORDANCE WITH THE SPECIFICATIONS AND PROCEDURES ESTABLISHED BY THE OWNER PRIOR TO ACCEPTANCE AND PLACEMENT INTO SERVICE.

MATERIAL STANDARDS: ALL MATERIALS UTILIZED IN THE CONSTRUCTION OF THIS PROJECT THAT WILL COME IN CONTACT WITH POTABLE WATER SHALL BE AWWA AND/OR NSF 60/61 APPROVED. PIPE AND MATERIALS INCORPORATED INTO THIS PROJECT SHALL ALSO CONFORM TO THE LATEST REVISION OF THE APPROPRIATE STANDARDS AS FOLLOWS:

PIPE: AWWA C-151 AND/OR ASTM D2241
FITTINGS: AWWA C-153
VALVES: AWWA C-509
APPURTENANCES: AWWA/NSF STANDARDS AS APPLICABLE
HYDRANTS: AWWA C-502

HYDROSTATIC TESTING: HYDROSTATIC TESTING OF THE WATERLINE SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF AWWA C600 OR AWWA C605 FOR DUCTILE IRON AND PVC WATERLINES, RESPECTIVELY.

<u>DISINFECTION:</u> DISINFECTION OF THE INSTALLED FACILITIES SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF AWWA C651 FOR WATER LINES & AWWA C652 FOR WATER TANKS.

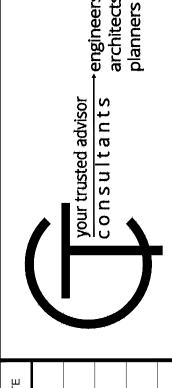
| SHEET INDEX | | | | | | | |
|-------------------|-----------------|---------------|--|--|--|--|--|
| SHEET NUMBER | SHEET TITLE | SHEET NAME | | | | | |
| GENERAL - 00 SER | RIES | | | | | | |
| 1 | COVER SHEET | 00G-01 | | | | | |
| 2 | GENERAL NOTES | 00G-02 | | | | | |
| CIVIL - 10 SERIES | | | | | | | |
| 3 | SITE PLAN | 10C-01 | | | | | |
| 4 | TANK DETAILS 1 | 10C-02 | | | | | |
| 5 | TANK DETAILS 2 | 10C-03 | | | | | |
| 6 | STANDARD DETAIL | 10C-04 | | | | | |
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SITE PLAN SYMBOLOGY:

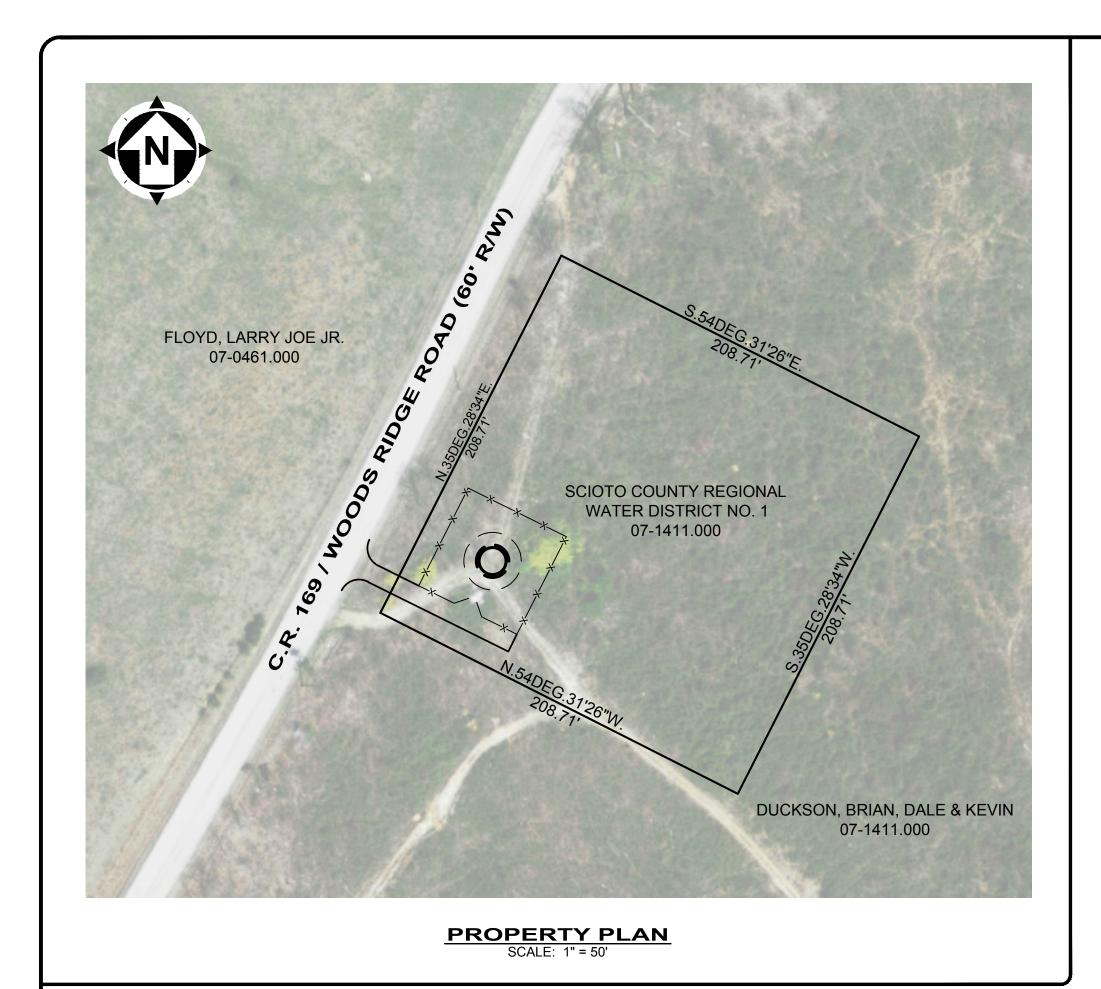
| 915 | _ | EXISTING CONTOUR (MAJOR) |
|---|---|---------------------------------|
| 914 | - | EXISTING CONTOUR (MINOR) |
| ELEC-OH | - | EXISTING ELECTRIC (OVERHEAD) |
| ELEC-UG | _ | EXISTING ELECTRIC (UNDERGROUND) |
| | _ | EXISTING PAVEMENT |
| EX R/W | _ | EXISTING RIGHT OF WAY |
| | _ | EXISTING STORM SEWER |
| . () () () () () () () () () (| _ | EXISTING TREE LINE |
| | _ | EXISTING WATERLINE |
| | _ | EXISTING WATER STORAGE TANK |
| | _ | EXISTING BUSHLINE |
| XX | _ | EXISTING CHAINLINK FENCE |
| | _ | EXISTING FOUNDATION |
| | _ | EXISTING ASPHALT ROAD |
| | _ | EXISTING GRAVEL DRIVE |
| | _ | EXISTING BUILDING |
| | _ | EXISTING GASLINE |
| | - | PROPOSED WATERLINE |
| | - | PROPOSED WATER STORAGE TANK |
| o o | - | PROPOSED CHAINLINK FENCE |
| BE0-V0 | _ | PROPOSED ELECTRIC (UNDERGROUND) |
| | | |

| EXISTING SYMBOLS | | | | |
|-----------------------|-----------|--|--|--|
| CATCH BASIN | | | | |
| POLE, ELECTRIC | \$ | | | |
| POLE, TELEPHONE | 7 | | | |
| POLE, LIGHT | ø | | | |
| SIGN | - | | | |
| ELECTRIC PEDESTAL | EP | | | |
| TELEPHONE PEDESTAL | TP | | | |
| EXISTING WATER VALVE | \otimes | | | |
| EXISTING TREE | 0 | | | |
| EXISTING PROPERTY PIN | 0 | | | |
| BENCHMARK SET | • | | | |

PROPOSED ELECTRIC PANELS

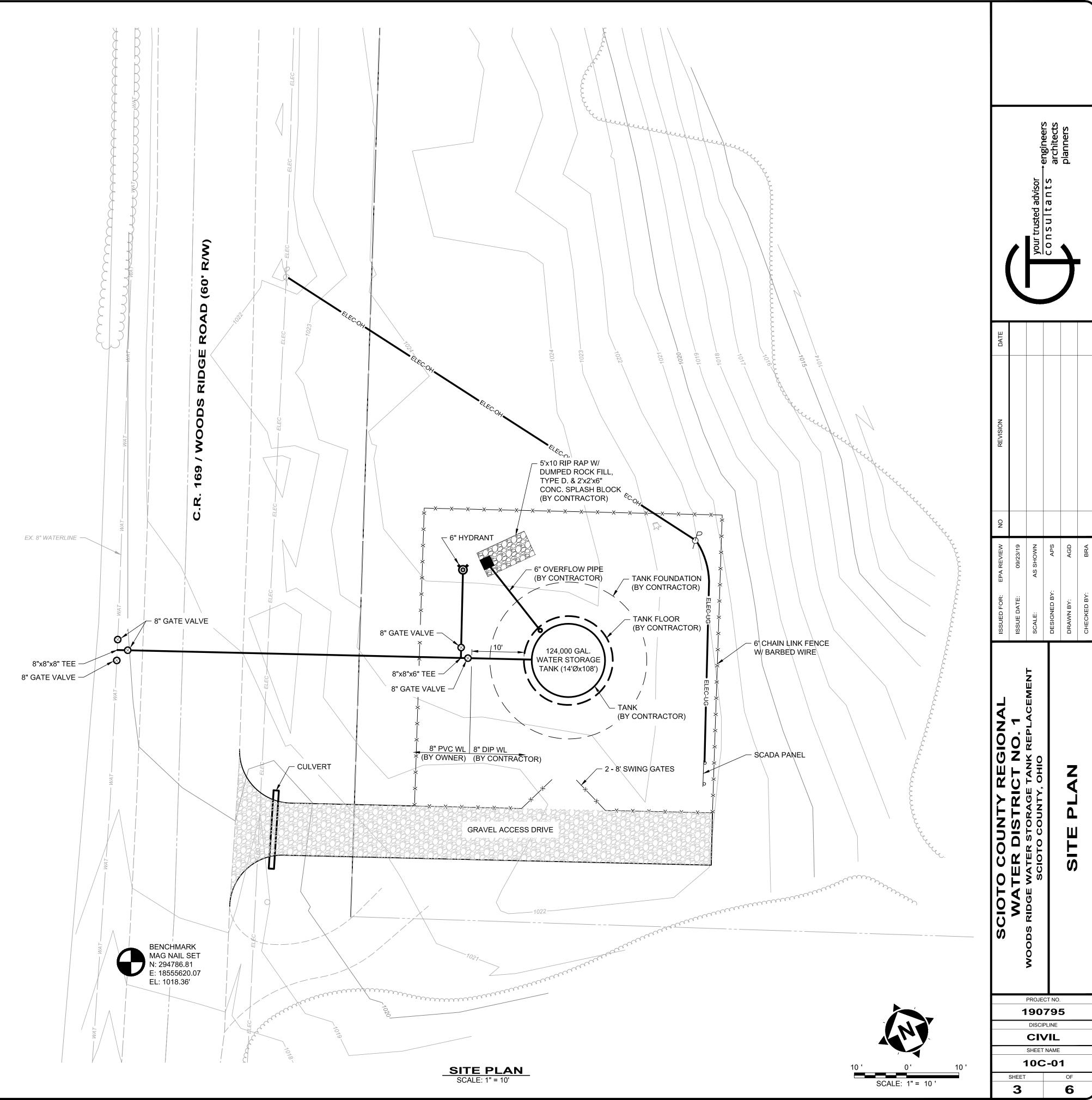


| | 09/23/19 | AS SHOWN | APS | AGD | BRA | | |
|--|--------------------|--|--------------|---------------|-------------|--|--|
| | ISSUE DATE: | SCALE: | DESIGNED BY: | DRAWN BY: | CHECKED BY: | | |
| | WATER DISTRICT NO. | WOODS RIDGE WATER STORAGE TANK REPLACEMENT SCIOTO COUNTY, OHIO | | GENERAL NOTES | | | |
| PROJECT NO. 190795 DISCIPLINE GENERAL | | | | | | | |
| SHEET NAME 00G-02 | | | | | | | |
| | 2 2 | | | 6 | | | |



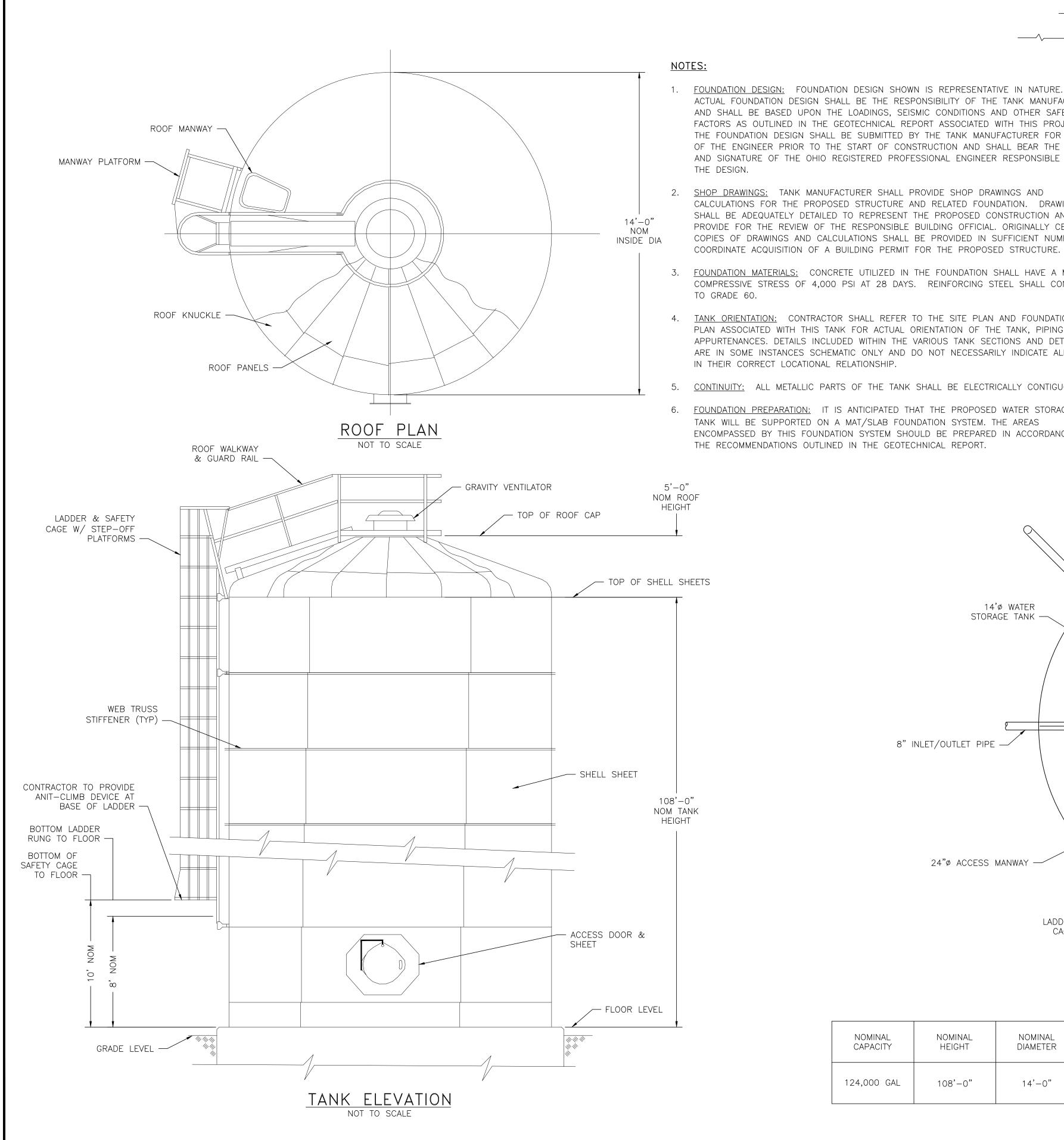
DRAWING PLAN WRITTEN NOTE:

- 1. ALL WORK TO BE PERFORMED BY OWNER, UNLESS OTHERWISE NOTED.
- 2. OWNER TO GRADE EXISTING SITE.
- 3. TANK LOCATION: N = 294803.7167 E = 1855720.243



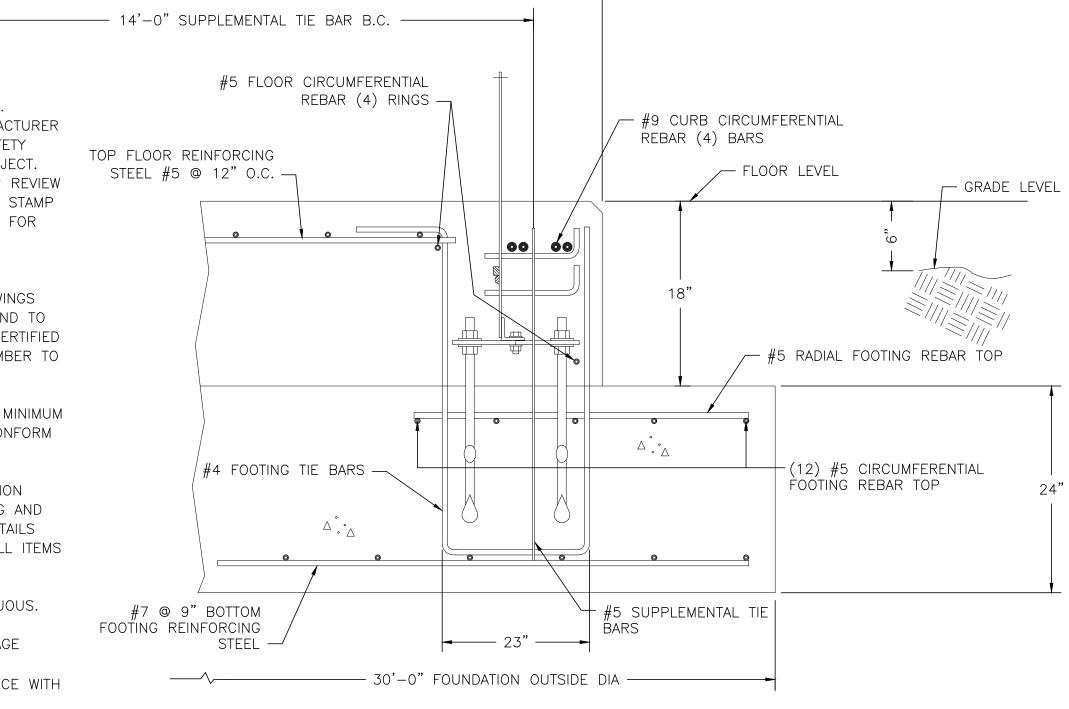
PROJECT NO. 190795 DISCIPLINE CIVIL SHEET NAME 10C-01

SHEET

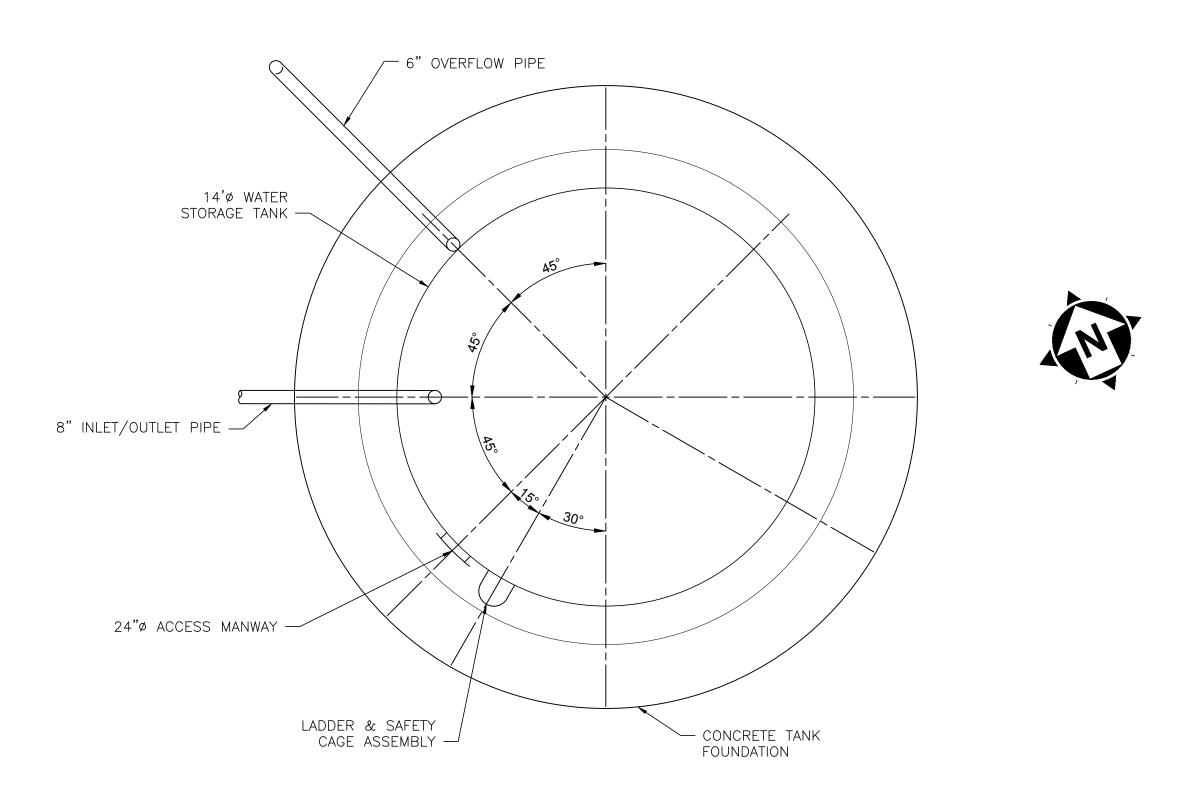


1. <u>FOUNDATION DESIGN:</u> FOUNDATION DESIGN SHOWN IS REPRESENTATIVE IN NATURE. ACTUAL FOUNDATION DESIGN SHALL BE THE RESPONSIBILITY OF THE TANK MANUFACTURER AND SHALL BE BASED UPON THE LOADINGS, SEISMIC CONDITIONS AND OTHER SAFETY FACTORS AS OUTLINED IN THE GEOTECHNICAL REPORT ASSOCIATED WITH THIS PROJECT. THE FOUNDATION DESIGN SHALL BE SUBMITTED BY THE TANK MANUFACTURER FOR REVIEW OF THE ENGINEER PRIOR TO THE START OF CONSTRUCTION AND SHALL BEAR THE STAMP AND SIGNATURE OF THE OHIO REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN. SHOP DRAWINGS: TANK MANUFACTURER SHALL PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR THE PROPOSED STRUCTURE AND RELATED FOUNDATION. DRAWINGS SHALL BE ADEQUATELY DETAILED TO REPRESENT THE PROPOSED CONSTRUCTION AND TO PROVIDE FOR THE REVIEW OF THE RESPONSIBLE BUILDING OFFICIAL. ORIGINALLY CERTIFIED COPIES OF DRAWINGS AND CALCULATIONS SHALL BE PROVIDED IN SUFFICIENT NUMBER TO

- 3. <u>FOUNDATION MATERIALS:</u> CONCRETE UTILIZED IN THE FOUNDATION SHALL HAVE A MINIMUM COMPRESSIVE STRESS OF 4,000 PSI AT 28 DAYS. REINFORCING STEEL SHALL CONFORM TO GRADE 60.
- 4. <u>TANK ORIENTATION:</u> CONTRACTOR SHALL REFER TO THE SITE PLAN AND FOUNDATION PLAN ASSOCIATED WITH THIS TANK FOR ACTUAL ORIENTATION OF THE TANK, PIPING AND APPURTENANCES. DETAILS INCLUDED WITHIN THE VARIOUS TANK SECTIONS AND DETAILS ARE IN SOME INSTANCES SCHEMATIC ONLY AND DO NOT NECESSARILY INDICATE ALL ITEMS IN THEIR CORRECT LOCATIONAL RELATIONSHIP.
- CONTINUITY: ALL METALLIC PARTS OF THE TANK SHALL BE ELECTRICALLY CONTIGUOUS.
- 6. <u>FOUNDATION PREPARATION:</u> IT IS ANTICIPATED THAT THE PROPOSED WATER STORAGE TANK WILL BE SUPPORTED ON A MAT/SLAB FOUNDATION SYSTEM. THE AREAS ENCOMPASSED BY THIS FOUNDATION SYSTEM SHOULD BE PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT.



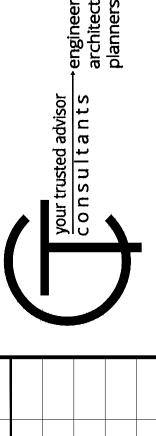
SECTION THROUGH FOOTING NOT TO SCALE



-----17'-0" FLOOR OUTSIDE DIA --

TANK FOUNDATION PLAN NOT TO SCALE

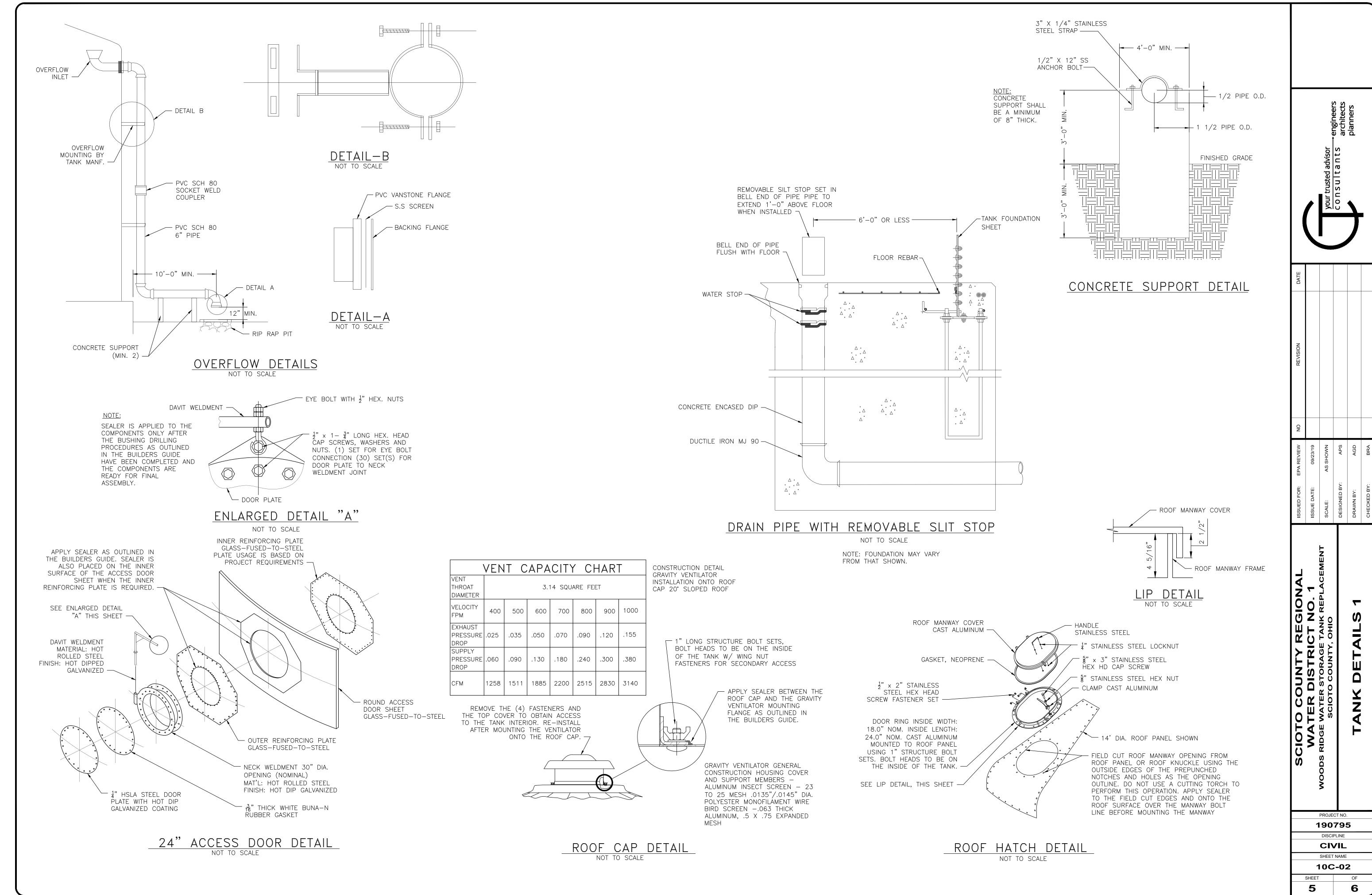
| NOMINAL CAPACITY | NOMINAL HEIGHT | NOMINAL DIAMETER | INLET/OUTLET DIAMETER | OVERFLOW DIA | OVERFLOW ELEV | BASE ELEV | GRADE ELEV | MIN OVERFLOW RATE |
|---------------------|-------------------|---------------------|--------------------------|--------------|---------------|-----------|------------|----------------------|
| 124,000 GAL | 108'-0" | 14'-0" | 8" | 6" | 1131.41 | 1024.50 | 1024.00 | 320 GPM |

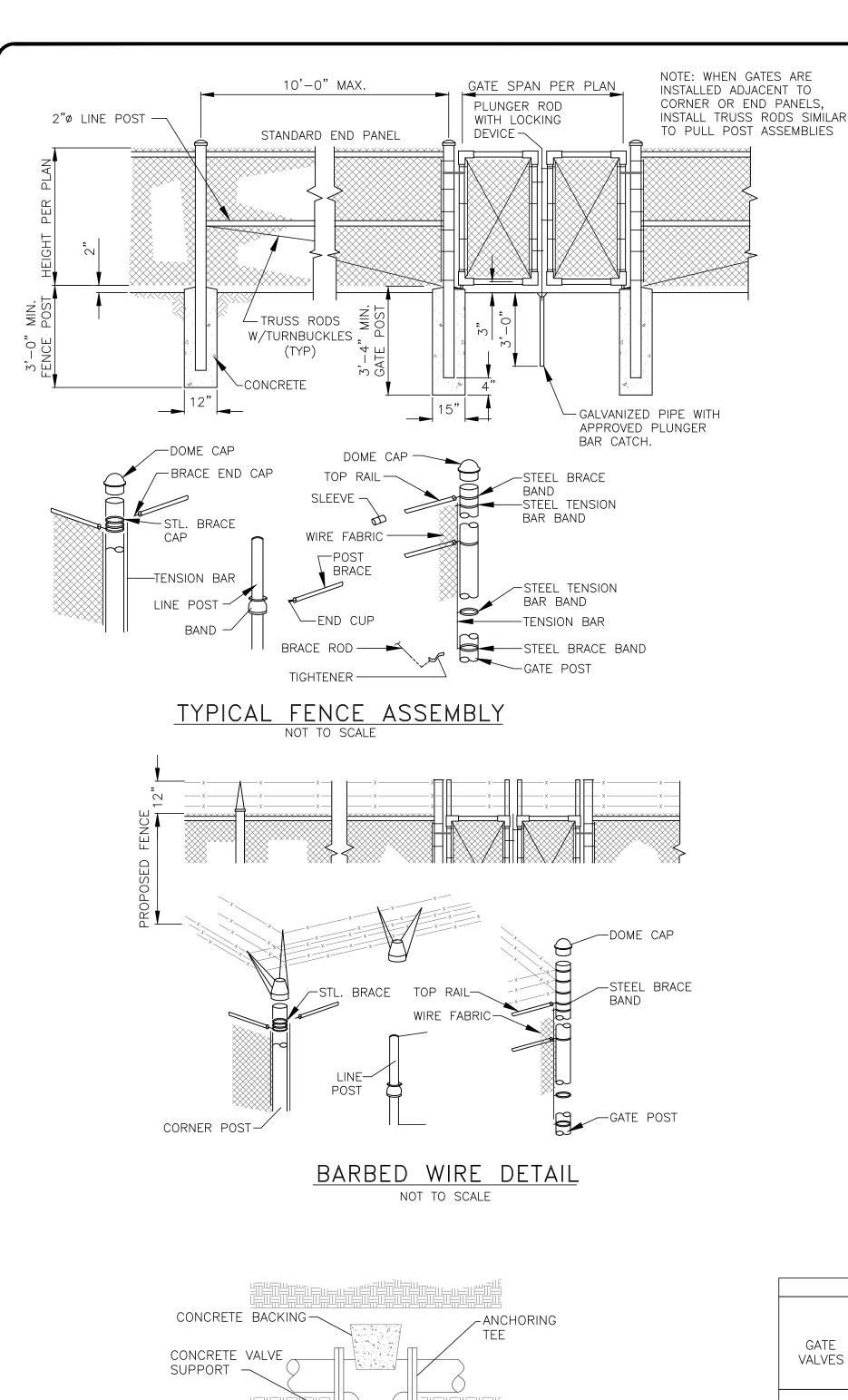


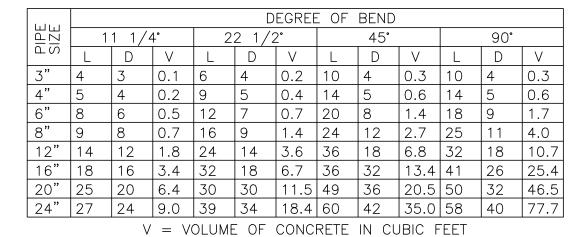
| KEGIONAL ISSUED FOR: EPA REVIEW NO REVISION | ICT NO. 1 ISSUE DATE: 09/23/19 | OODS RIDGE WATER STORAGE TANK REPLACEMENT SCALE: AS SHOWN SCIOTO COUNTY, OHIO | DESIGNED BY: APS | AILS 1 AGD DRAWN BY: AGD | CHECKED BY: BRA | |
|---|--------------------------------|---|------------------|--------------------------|-----------------|--|
| SCIOIO COUNIY REGIONAL | WATER DISTRICT NO. 1 | SCIOTO COUNTY, OHIO | | TANK DETAILS 1 | | |

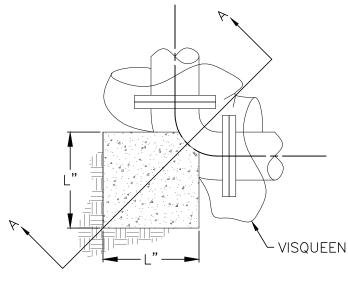
PROJECT NO. 190795

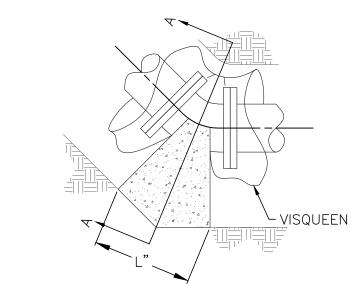
DISCIPLINE CIVIL SHEET NAME 10C-02



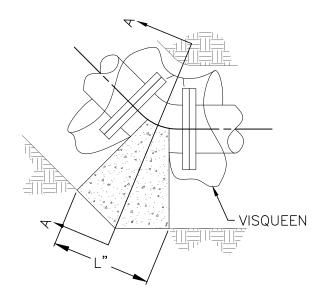


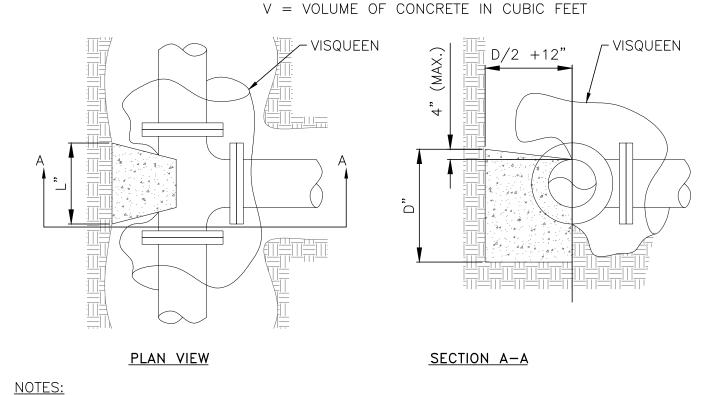






BENDS LESS THAN 90°





20 | 1.0 | 11 | 20 | 1.9 | 18 | 20 | 3.3 | 35 | 24 | 8.7 | 46 | 32 | 13.6 | 60 | 38 | 26.5 |

| D | V

8.7

| V | L

NOTES:

1. CONCRETE FOR BACKING SHALL BE CLASS "C".

PLAN VIEWS

BACKING FOR BENDS DETAIL

NOT TO SCALE

2. BACKING SHALL BE DESIGNED FOR 3000 PSF SOIL BEARING.

90° BENDS

3. REINFORCING STEEL SHALL BE USED AS DIRECTED BY THE CONTRACT ADMINISTRATOR.

4. CONCRETE SHALL BE PLACED AGAINST

- UNDISTURBED EARTH. 5. PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.
- 6. VISQUEEN SHALL BE PLACED IN A MANNER SUCH THAT CONCRETE BLOCKING DOES NOT HAVE DIRECT CONTACT WITH BEND.

VISQUEEN

SECTION A-A

12 | 0.8 | 18 | 12 | 1.9 | 23 | 16 | 3.5 | 38 | 22

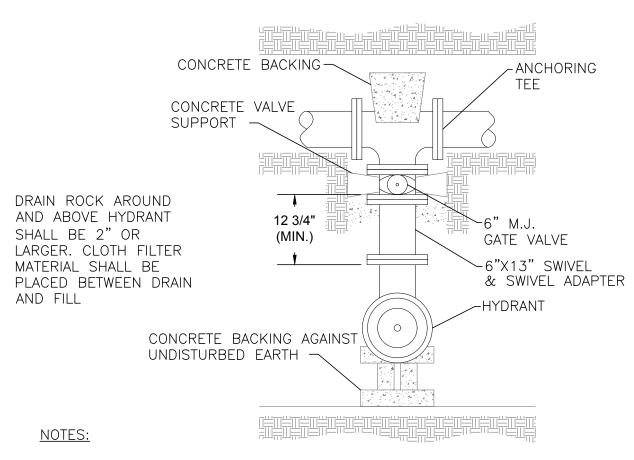
16 | 0.8 | 6 | 16 | 0.8 | 14 | 16 | 2.0 | 20 | 18 | 3.3 | 36 | 23 | 8.7 | 49 | 30 | 13.6 |

0.7 | 18 | 12 | 1.9 | 23 | 16

0.8 | 18 | 12 | 1.9

- 1. CONCRETE FOR BACKING SHALL BE CLASS "C".
- 2. BACKING SHALL BE DESIGNED FOR 3000 PSF SOIL BEARING.
- 3. REINFORCING STEEL SHALL BE USED AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- 4. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED EARTH.
- 5. PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.
- 6. VISQUEEN SHALL BE PLACED IN A MANNER SUCH THAT CONCRETE BLOCKING DOES NOT HAVE DIRECT CONTACT WITH TEE AND/OR FITTINGS.

BACKING FOR TEES DETAIL NOT TO SCALE



1. BACKFILL SHALL BE GRANULAR MATERIAL CONFORMING TO (ODOTCMS), ITEM

703.11 TYPE 2, GRADE A, OR APPROVED SUITABLE EXCAVATED MATERIAL POWER

TAMPED IN LAYERS NOT EXCEEDING 4" IN THICKNESS, LOOSE MEASUREMENT.

BACKFILL SHALL EXTEND FROM THE BOTTOM OF THE PIT OR TRENCH TO 6"

PLACING BACKFILL SHALL BE INCLUDED IN THE PRICE BID FOR EACH HYDRANT.

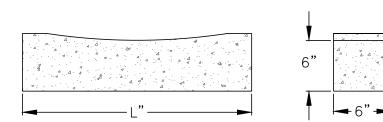
TYPICAL 6" HYDRANT SETTING

NOT TO SCALE

BELOW THE EXISTING OR PROPOSED SURFACE. COST OF FURNISHING AND

2. ALL HYDRANTS SHALL BE INSTALLED WITH HARDWOOD OR CONCRETE BLOCKING

- SIZE | L | V 3" | 15 | 0.31 | 4" | 16 | 0.33 | 6" |17 |0.36 | VALVES 8" |20|0.42| 12" | 24 | 0.50 | 14" | 28 | 0.58 16" | 30 | 0.63 | BUTTERFLY 20" | 36 | 0.75 VALVES 24" | 42 | 0.88 | 30" | 48 | 1.00 |
- V = VOLUME OF CONCRETE IN CUBIC FEET NOTES:
- 1. CONCRETE FOR SUPPORTS SHALL BE CLASS C.
- 2. BACKING SHALL BE DESIGNED FOR 300 PSF SOIL BEARING.
- 3. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED EARTH.
- 4. PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.



CONCRETE VALVE SUPPORTS NOT TO SCALE

FULL WIDTH OF EXCAVATED TRENCH 12" D + 12" (MIN.)D + 24" (MAX.)REQUIRED TYPE B BACKFILL -12 GAUGE WIRE 57,6,67,68 OR 7 PER ODOT CMS TYPE 2 BEDDING

2. TYPE B SHALL BE NATURAL SOIL FREE FROM STONES LARGER THAN 2 INCHES ACROSS THEIR GREATEST DIMENSION, TOPSOIL, VEGETATION, DEBRIS, RUBBISH OR FROZEN MATERIAL. 3. TYPE C SHALL BE LOW STRENGTH MORTAR AS SPECIFIED IN ODOTCMS NOTES: ITEM 613. 6" MIN TOPSOIL AS BEDDING:
TYPE 1-GRANULAR MATERIAL No.

-SUBGRADE

TABLE 703.01-1. TYPE 2-NATIVE SOIL FREE FROM STONES LARGER THAN 2 INCHES ACROSS THEIR GREATEST DIMENSIONS, TOP SOIL, VEGETATION, DEBRIS, RUBBERISH OR FROZEN MATERIAL.

1. TYPE A, SHALL BE COMPACTED

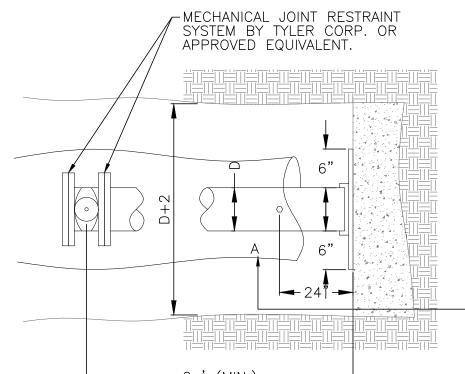
IN ODOT CMS ITEM 304.

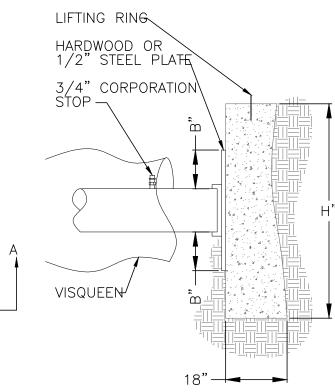
GRANULAR MATERIAL AS SPECIFIED

BACKFILL:

TYPE 3-CONCRETE BEDDING, CLASS "C" CONCRETE PER ODOT CMS 511.

TRENCH DETAIL FOR WATERLINE INSTALLED IN NON-PAVED AREAS





PROJECT NO.

190795

DISCIPLINE

CIVIL

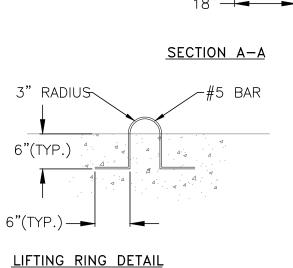
SHEET NAME

10C-05

PLAN VIEW

1. CONCRETE FOR BACKING SHALL BE CLASS "C".

- 2. BACKING SHALL BE DESIGNED FOR 3000 PSF SOIL BEARING.
- 3. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED EARTH.
- 4. PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.
- 5. VISQUEEN SHALL BE PLACED IN A MANNER SUCH THAT CONCRETE BLOCKING DOES NOT HAVE DIRECT CONTACT WITH FITTINGS.
- 6. END OF PIPE SHALL BE CAPPED OR PLUGGED.
- 7. STEEL PLATE SHALL BE GREASED WHERE IN CONTACT WITH CONCRETE BACKING.
- 8. PLUG POLES SHALL BE INSTALLED AT ALL END-OF-LINE STUBS AT THE TRUST BLOCK.



| | SIZE OF PIPE | Н | В | L (PVC) | L (DIP) | V |
|---|--------------------|---------|------|------------|------------|---------|
| | 6" | 8 | 1 | 20 | 18 | 2.52 |
| | 8" | 12 | 1 | 20 | 18 | 4.00 |
| | 12" | 23 | 3 | 20 | 18 | 8.64 |
| F | 16" | 37 | 3 | 20 | 18 | 15.39 |
| _ | V = ' | VOI UMF | OF C | ONCRET | F IN C | :UBIC F |

THRUST BLOCK DETAIL

NOT TO SCALE

AGAINST UNDISTURBED EARTH.