# BREATHIT COUNTY WATER DISTRICT

KY 30 EAST & WOLF CREEK WATERLINE EXTENSION PROJECT CONTRACT 2 - WATER STORAGE TANK

DECEMBER 2023

WATER COMMISSIONERS

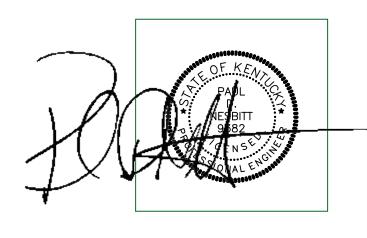
**BOBBY THORPE JR - CHAIRMAN** 

SAMMIE TURNER - VICE CHAIRMAN

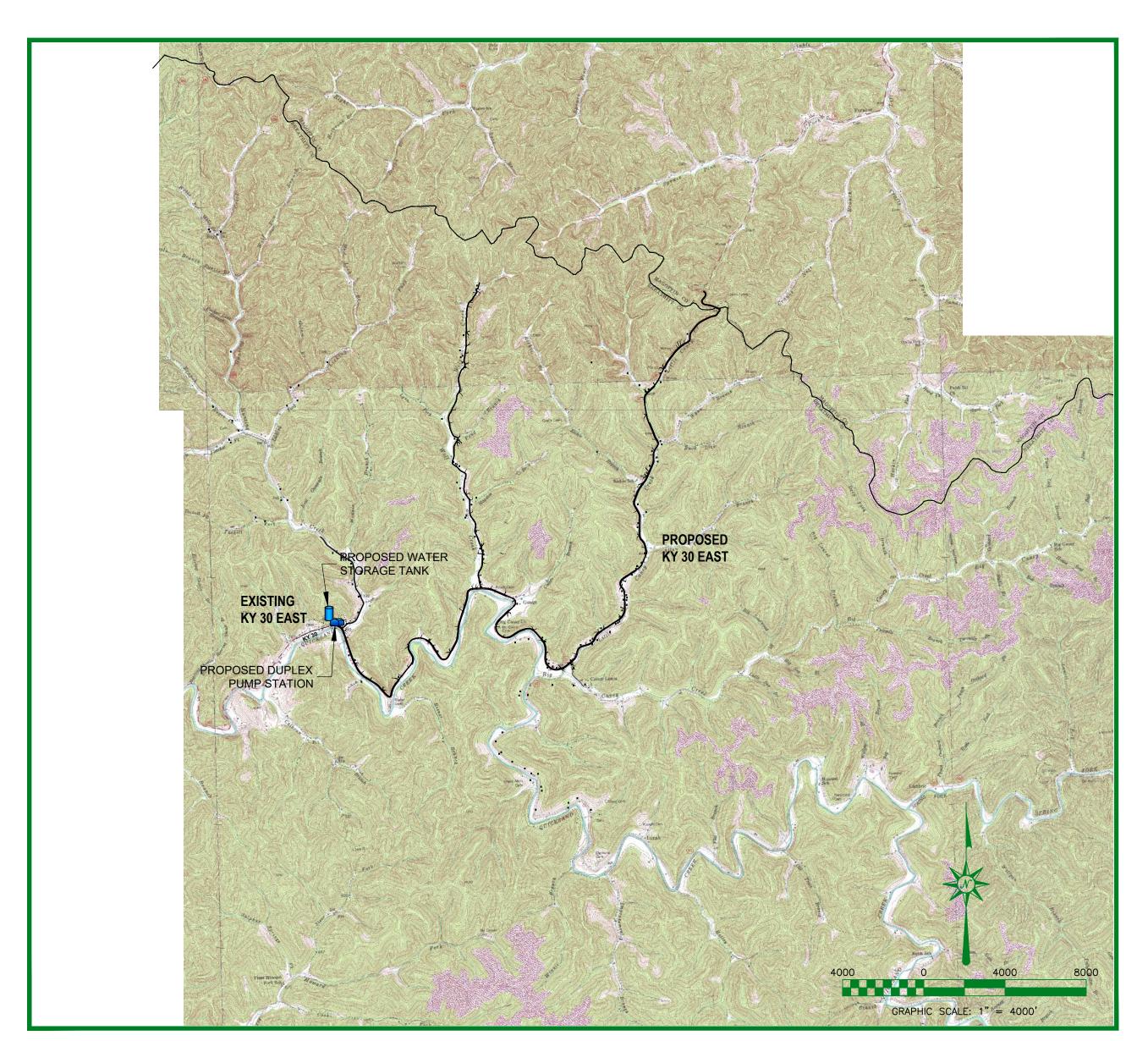
**EVA FUGATE - SECRETARY** 

CHERYL CAMPBELL - TREASURER

**DAVID INGRAM - MEMBER** 







VICINITY MAP SCALE: 1" = 4000'

# NUMBER DESCRIPTION C-1 GROUND WATER STORAGE TANK SITE PLAN (27,000 GALLONS) C-2 GROUND WATER STORAGE TANK DETAILS C-3 GROUND WATER STORAGE TANK FOUNDATION DETAILS C-4 STANDARD DETAILS C-5 STANDARD DETAILS 2

# **GENERAL NOTES:**

- 1. DIMENSIONS OF EXISTING STRUCTURES, EQUIPMENT, ETC. SHALL BE FIELD CONFIRMED BY THE CONTRACTOR. WHERE CRITICAL DIMENSIONS FOR INSTALLATION OF PROPOSED EQUIPMENT ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL CONFIRM THESE DIMENSIONS FOR ACTUAL EQUIPMENT FURNISHED. ALL KNOWN DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- 2. THE CONTRACTOR SHALL USE ALL POSSIBLE CARE DURING EXCAVATION ON THIS PROJECT SO AS NOT TO DISTURB ANY EXISTING UTILITY WHETHER SHOWN ON PLANS OR NOT. ANY UTILITY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING HIS CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- 3. THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY TO THE AREA WITHIN EXISTING EASEMENTS AND CONSTRUCTION LIMITS, UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER.
- 4. THE CONTRACTOR WILL BE SOLELY LIABLE FOR ANY WORK HE PERFORMS OUTSIDE OF LEGAL EASEMENTS OR CONSTRUCTION LIMITS.
- 5. THE CONTRACTOR MUST CONTACT ALL UTILITY OWNERS AND HAVE THEM FIELD LOCATE THEIR EXISTING LINES PRIOR TO ANY CONSTRUCTION ACTIVITY.
- 6. EFFORTS HAVE BEEN MADE TO INDICATE ACCURATE LOCATIONS OF SOME EXISTING STRUCTURES, PIPING AND UTILITIES. HOWEVER THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND OTHER EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN INFORMATION DEPICTED BY THE CONSTRUCTION DRAWINGS AND ACTUAL FIELD CONDITIONS WHICH WOULD SIGNIFICANTLY ALTER THE DESIGN INTENT OF THE CONSTRUCTION DRAWINGS PRIOR TO COMMENCING HIS CONSTRUCTION OPERATIONS. DIMENSIONS OF EXISTING STRUCTURES AND/OR SITE RESTRICTIONS ARE APPROXIMATE, IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN AND CONFIRM ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES AND TOPOGRAPHY IN THE FIELD NECESSARY FOR HIS CONSTRUCTION OPERATION.
- 7. THE CONTRACTOR SHALL USE ALL POSSIBLE CARE DURING EXCAVATION ON THIS PROJECT SO AS NOT TO DISTURB OR DAMAGE ANY EXISTING UTILITY OR STRUCTURE NOT SCHEDULED FOR DEMOLITION WHETHER DEPICTED OR NOT IN THE CONSTRUCTION DRAWINGS. ANY DAMAGE TO THE AFORE MENTIONED ITEMS CAUSED DIRECTLY OR INDIRECTLY BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO BEING DAMAGED.
- 8. THE CONTRACTOR SHALL CONTACT AND OBTAIN THE PERMISSION OF EXISTING UTILITY OWNERS 48 HOURS (MIN.) PRIOR TO ANY CONSTRUCTION ACTIVITY INTERRUPTING OPERATION OF SAID UTILITY.
- 9. UNLESS OTHERWISE NOTED, ALL BURIED PIPES SHALL HAVE 30" (MIN.) COVER AS MEASURED FROM FINISHED GRADE TO THE OUTSIDE SURFACE OF THE PIPE.
- 10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WORK ALL APPLICABLE DRAWINGS AND THE APPROPRIATE SPECIFICATIONS AS A UNIT. ANY OMISSIONS, DELETIONS, OR CONFLICT'S ARISING AS A RESULT OF FAILURE TO INCORPORATE ALL DRAWINGS AND SPECIFICATIONS WHICH APPLY SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDED COST TO THE OWNER.



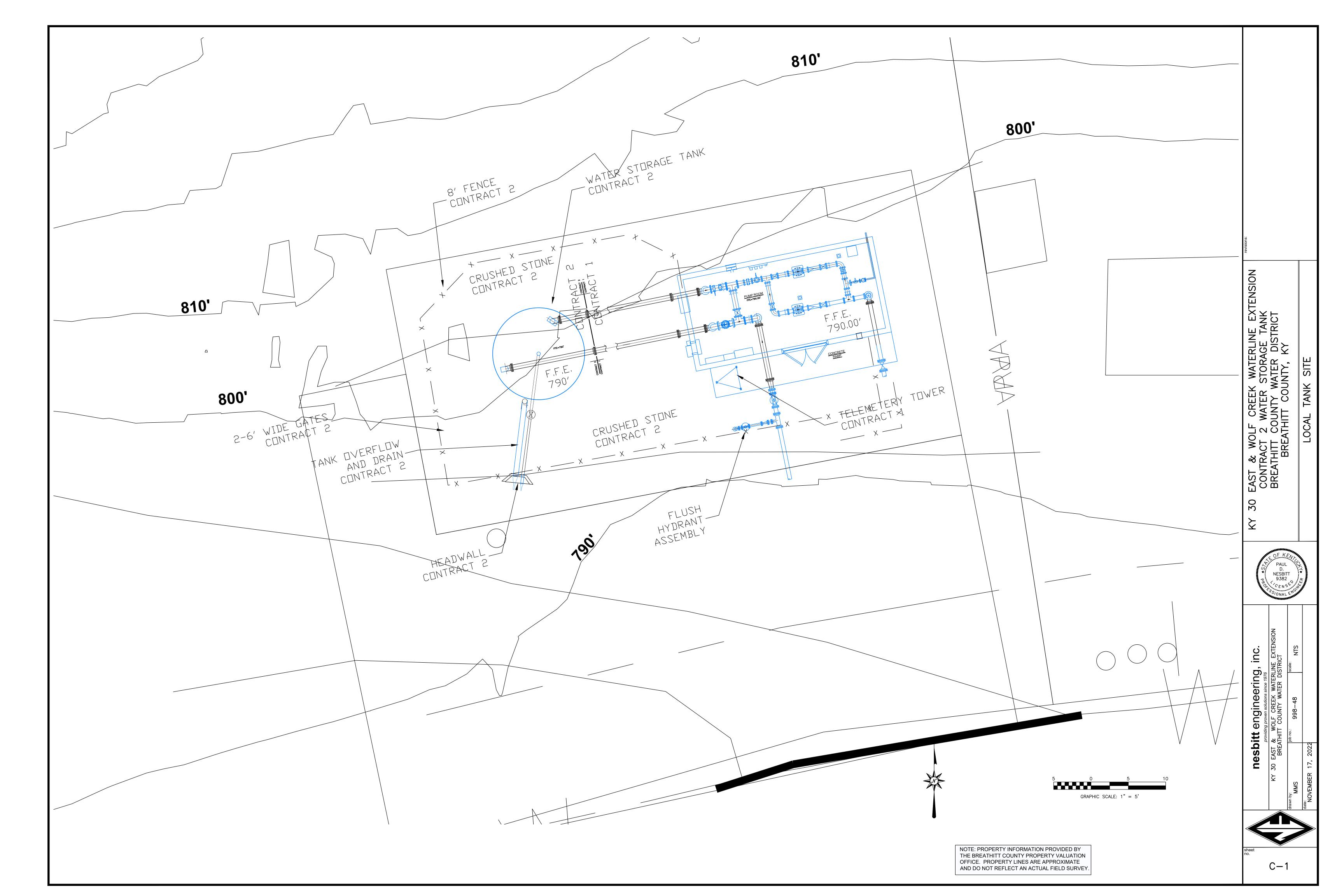
CALL THE KENTUCKY ONE CALL BEFORE DIGGING:
KENTUCKY UNDERGROUND PROTECTION, INC. 1-800-752-6007
A FEDERAL LAW NOW IN EFFECT STATES THAT ANY PERSON WHO ENGAGES IN EXCAVATION ACTIVITIES WITHOUT FIRST USING AN AVAILABLE ONE-CALL NOTIFICATION SYSTEM TO DETERMINE LOCATIONS OF UNDERGROUND FACILITIES; OR WITHOUT HEEDING LOCATION INFORMATION OR MARKINGS AND SUBSEQUENTLY DAMAGES A PIPELINE FACILITY SHALL BE SUBJECT TO A FINE, IMPRISONMENT, OR BOTH. THE LAW ALSO STATES THAT OSHA MAY BE NOTIFIED OF ANY ACCIDENT CAUSED BY AN EXCAVATOR.

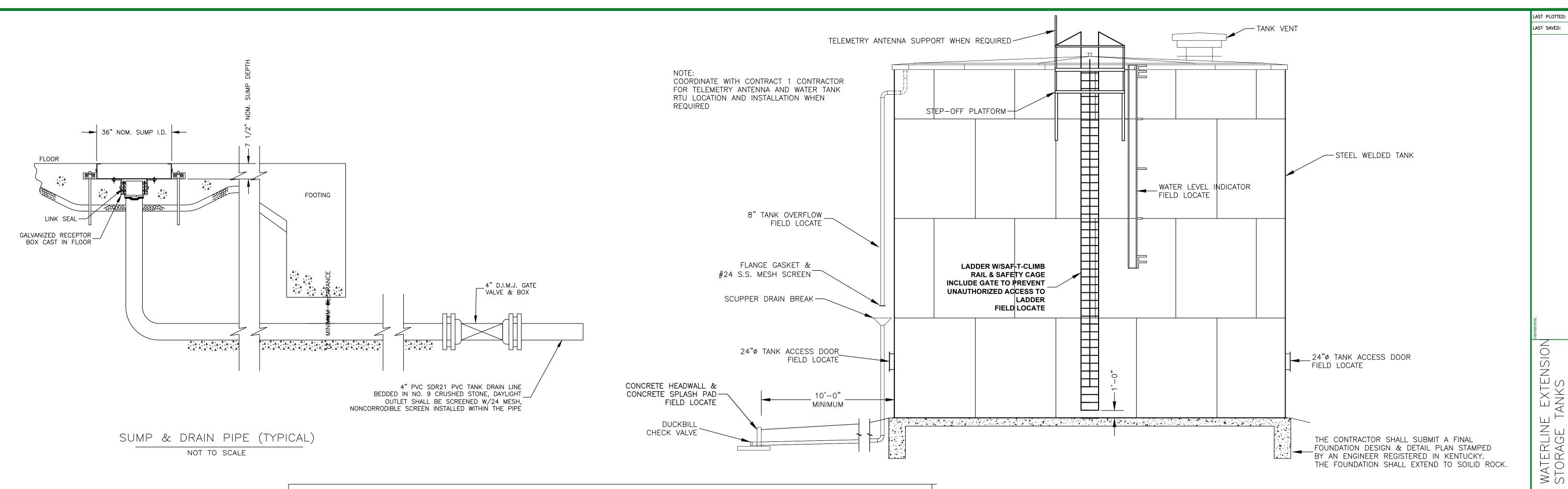
NATIONAL ONE-CALL REFERRAL NUMBER 1-800-258-0808



227 N. Upper Street Lexington, Kentucky 40507-1016 Tel (859) 233-3111 Fax (859) 259-2717







THE TANK AND TANK FOUNDATION ARE TO BE DESIGNED IN ACCORDANCE WITH AWWA STANDARD FOR THE SPECIFIC WATER STORAGE TANK BEING PROPOSED.

### **DESIGN CRITERIA**

THIS STRUCTURE IS TO BE DESIGNED ACCORDING TO THE [2002] KENTUCKY BUILDING CODE AND FOR THE SPECIFIC LOADS THAT ARE LISTED BELOW.

### ROOF LOADS

DEAD LOAD = ACTUAL WEIGHTS OF MATERIALS & CONSTRUCTION LIVE LOAD = 20 PSF

SNOW LOADS: GROUND SNOW LOAD (PG) = 15 PSFFLAT-ROOF SNOW LOAD (PF) = 15 PSF EXPOSURE FACTOR (CE) = 1.0

IMPORTANCE FACTOR (IS) = 1.2THERMAL FACTOR (CT) = 1.2

### LIVE LOAD

1. SLAB ON GRADE = 3000 PSF

EXPOSURE = B

### LATERAL LOADS

BASIC WIND SPEED = 100 MPH IMPORTANCE FACTOR (IW) = 1.15BUILDING CATEGORY = III

> MAIN WINDFORCE DESIGN PRESSURE (P) = 22 PSF COMPONENTS AND CLADDING DESIGN PRESSURE PER 2002 KBC FIGURE 1609.6(2):

ZONE 1 = +10.0 PSF OR -13.3 PSF ZONE 2 = +10.0 PSF OR - 15.8 PSFZONE 3 = +10.0 PSF OR - 15.8 PSFZONE 4 = +12.4 PSF OR -13.6 PSF

ZONE 5 = +12.4 PSF OR - 15.1PSF

SEISMIC LOADS:

SEISMIC USE GROUP = III SEISMIC DESIGN CATEGORY = B (ROCK SEAT); C (SOIL FOUNDATION SEAT) SITE CLASS TYPE = B (ROCK SEAT); D (SOIL FOUNDATION SEAT)

CONDITIONS OF THE SITE BEFORE PROCEEDING WITH CONSTRUCTION.

# GROUND STORAGE TANK INFORMATION

|                      | ,                                  |                               | ,                        |                           |                    |
|----------------------|------------------------------------|-------------------------------|--------------------------|---------------------------|--------------------|
| TANK                 | STORAGE CAPACITY<br>(GALLONS)      | NOMINAL<br>DIAMETER<br>(FEET) | NOMINAL HEIGHT<br>(FEET) | FLOOR ELEVATION<br>(FEET) | OVERFLOW<br>(FEET) |
| PUMP STATION (LOCAL) | 27,000                             | 14'                           | 25'                      | 790'                      | 814'               |
| NOTE: TANK SHOWN     | FOR ILLUSTRATIVE PU<br>STATED IN T |                               |                          | CONSTRUCTED AS            |                    |

## NOTES

- 1. All work shall be performed in accordance with AWWA Standard for Welded Steel Tanks for WATER STORAGE (ANSI-AWWA D100-96).
- 2. This Drawing is Not to Scale and shows a Welded Steel Water Storage Tank Foundation. Glass Lined, Bolted Steel, Water Storage Tank Foundation information may be Submitted as an Alternate, as Required.
- 3. The Contractor shall submit a Final Foundation Design and Detail Plan Stamped by an ENGINEER REGISTERED IN KENTUCKY.
- 4. A Geotech Investigation and Report has been conducted for the pump station tank site by the owner and is included in the bid documents. The contractor shall conduct a geotech investigation for the cemetery tank site.

### UPLIFT LOADING

1. INSTALL AND ANCHOR ROOF DECK UNITS TO RESIST GROSS UPLIFT LOADING OF 35 LBS. PER SQUARE FOOT AT EAVE OVERHANG AND 20 LBS. PER SQUARE FOOT FOR OTHER ROOF AREAS.

### FOUNDATION, FILLING, AND EXCAVATION

- 1. ALL FILL BELOW SLABS ON GRADE SHALL BE COMPACTED TO 98% OF STANDARD PROCTOR DENSITY, ASTM D698, AT +/- 2% OF OPTIMUM MOISTURE CONTENT (O.M.C.). ALL FILL IN THE
- BEARING ZONE BELOW FOOTINGS SHALL BE COMPACTED TO 100% OF S.P.D.  $\pm -2\%$  OF O.M.C. A MINIMUM OF ONE FIELD DENSITY TEST SHOULD BE PERFORMED FOR EACH 5,000 SQUARE FEET/THE SLAB AREA WITH A MINIMUM OF TWO TESTS FOR EACH LAYER OF FILL. FOR BACKFILL
- OF DITCHES OR TRENCHES, ONE DENSITY TEST SHOULD BE PERFORMED FOR EACH 10 CUBIC YARDS (IN PLACE) OF BACKFILL MATERIAL, UNLESS OTHERWISE NOTED. FOUNDATIONS ARE DESIGNED FOR AN INTERIOR MINIMUM BEARING PRESSURE OF 3000 PSF. THE ENTIRE RINGWALL MUST BE FOUNDED ON SOLID ROCK, WITH A MINIMUM ALLOWABLE LOADING OF 5000 PSF (MIN.). APPROVAL OF THE BEARING PRESSURE MUST BE OBTAINED FROM A GEOTECHNICAL ENGINEER (REPORT TO BE SUPPLIED BY CONTRACTOR) FAMILIAR WITH THE

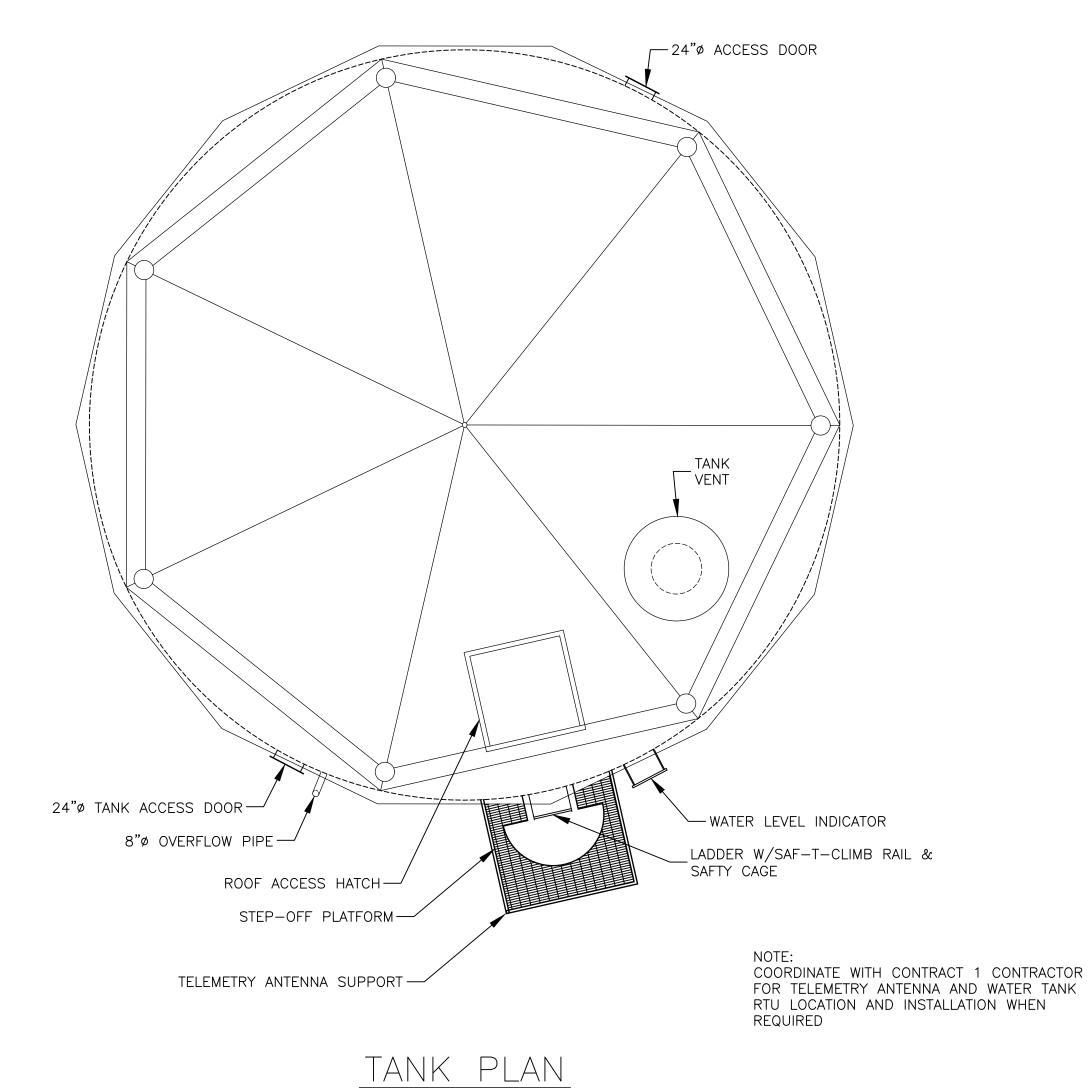
### CAST IN PLACE CONCRETE

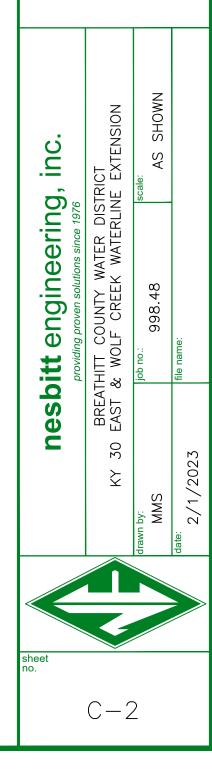
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF F'C = 4000 PSI AT 28 DAYS.
- REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
- REINFORCING STEEL FOR CONCRETE CAST AGAINST EARTH SHALL HAVE A MINIMUM COVER OF 3". ALL OTHER REINF STEEL SHALL HAVE A MINIMUM COVER OF 2". LAP SPLICES FOR #5
- CONTINUOUS BARS SHALL BE STAGGERED AND SHALL BE A MINIMUM OF 2'-0". 4. PRIOR TO FABRICATION, SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT. COMPLY WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" SHOWING BAR SCHEDULES, STIRRUP SPACING, DIAGRAMS OF BENT BARS, AND ARRANGEMENT OF CONCRETE REINFORCEMENT. INCLUDE SPECIAL REINFORCEMENT REQUIRED AND OPENINGS THROUGH CONCRETE STRUCTURES
- 5. SUBMIT LAB TEST REPORTS FOR CONCRETE MATERIALS AND MIX DESIGN TEST AS SPECIFIED.

### STEEL MATERIALS

- 1. PLATE MATERIAL FOR TANK SHELL AND TANK BOTTOM SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. ALL WELDS TO BE MADE WITH E70XX RODS AND WELDING IS TO CONFORM TO
- ANCHOR BOLTS SHALL BE THREADED RODS CONFORMING TO THE REEQUIREMENTS OF ASTM-A307.

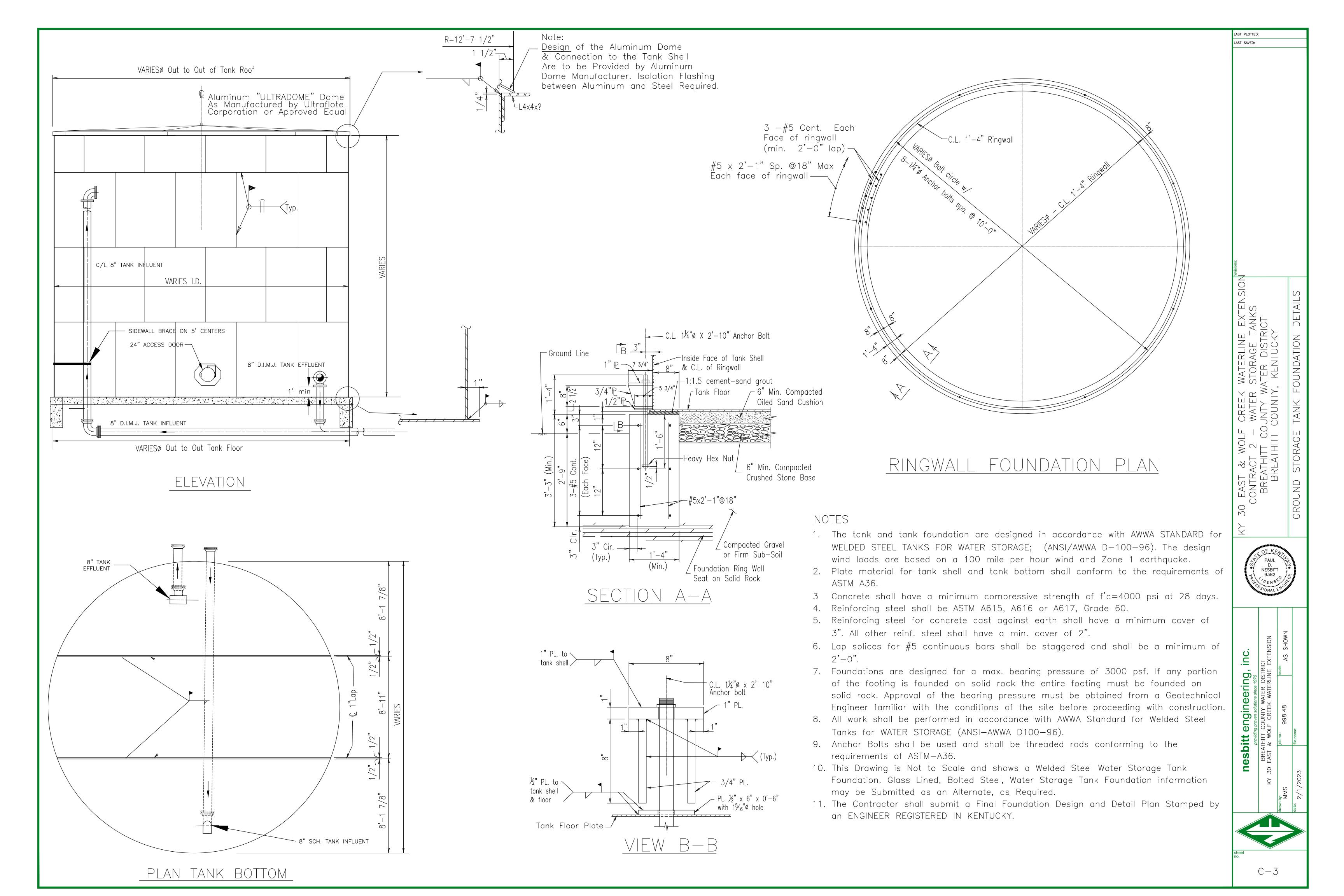
# ELEVATION

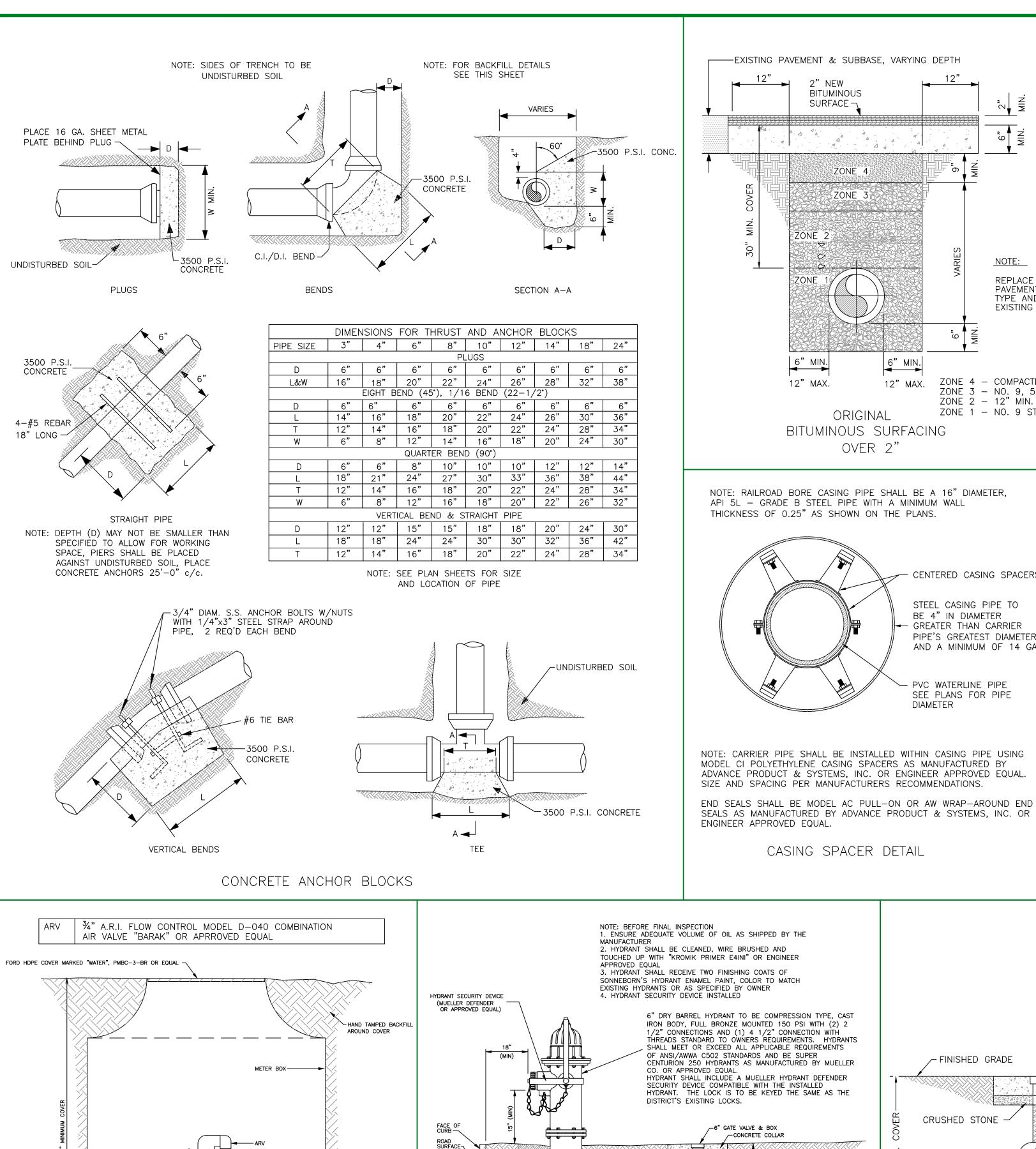




CONTRACT
BREATH
BREATH
BREA

AST SAVED:

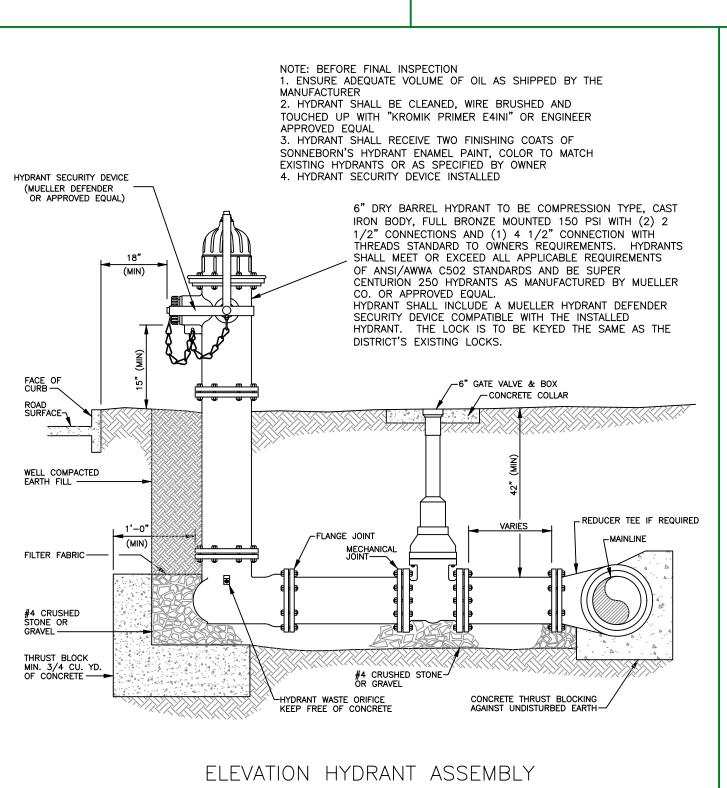




3/4" BRONZE NPT

CRUSHED STONE

TYPICAL AIR RELIEF VALVE ASSEMBLY



2"NEW

6" MIN.

12" MAX

BITUMINOUS

ZONE 4

ZONE 3

6" MIN.

12" MAX.

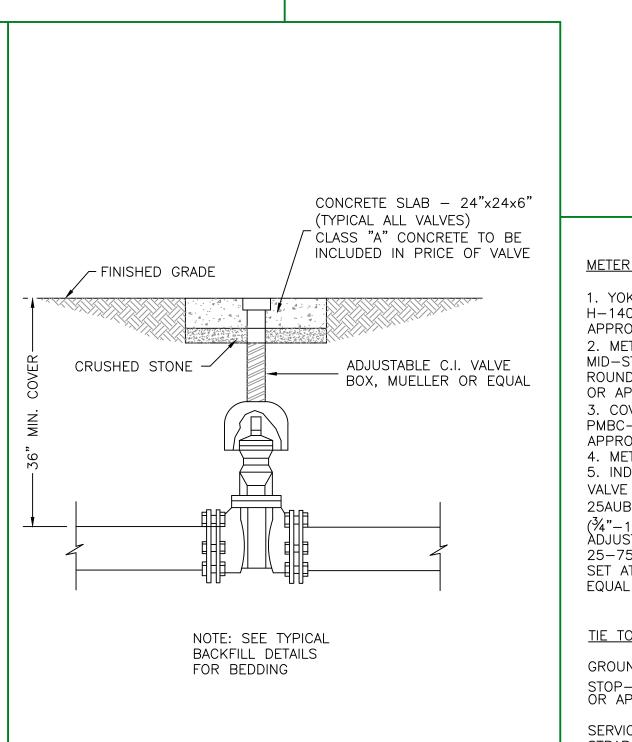
ORIGINAL

CASING SPACER DETAIL

BITUMINOUS SURFACING

OVER 2"

SURFACE ¬



REPLACE ORIGINAL TYPE SURFACE-

6" MIN.

12" MAX.

Restraint Segment

NOTE:

REQUIRED

NOTE:

ZONE 4 - COMPACTED DGA

ZONE 1 - NO. 9 STONE

— CENTERED CASING SPACERS

STEEL CASING PIPE TO

GREATER THAN CARRIER

PIPE'S GREATEST DIAMETER

AND A MINIMUM OF 14 GAGE

BE 4" IN DIAMETER

PVC WATERLINE PIPE

SEE PLANS FOR PIPE

DIAMETER

ZONE 3 - NO. 9, 57, OR 78 STONE

ZONE 2 - 12" MIN. NO. 9 STONE

REPLACE BITUMINOUS PAVEMENT WITH SAME TYPE AND DEPTH AS

EXISTING PAVEMENT

ZONE 4

ZONE 3

ORIGINAL BITUMINOUS

SURFACING 2" OR LESS AND

TRAFFIC BOUND MACADAM

6" MIN.

12" MAX.

MJ Retainer Gland Joint Restraint

1. MJ RETAINER GLAND JOINT RESTRAINTS

METER SETTING

APPROVED EQUAL

APPROVED EQUAL

TIE TO WATER MAIN

APPROVED EQUAL

GROUND KEY CORPORATION

1. YOKE-5/8"x3/4" MUELLER

ROUND METER BOX, B SERIES

4. METER-SEE SPECIFICATIONS

VALVE (IPRV) WATTS MODEL

3. COVER-18"Ø FORD HDPE PMBC-3-BR LOCKING LID OR

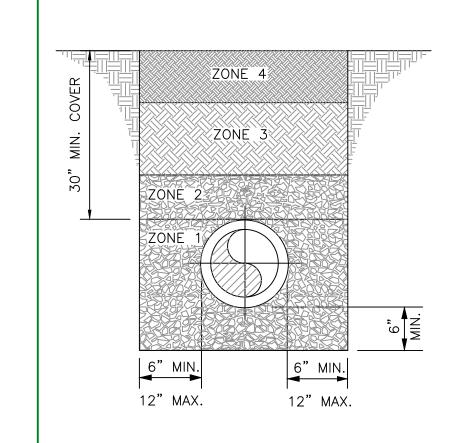
MID-STATE PLASTICS, INC.

OR APPROVED EQUAL

SHALL BE USED ALONG WITH CONCTETE

ANCHOR BLOCKS AT ALL FITTINGS AS

TYPICAL GATE VALVE ASSEMBLY



PIPE LAID IN ROCK OR EARTH TRENCH NOTES:

1. COVER UP TO AND INCLUDING ZONE 4 SHALL BE ESTABLISHED BEFORE TRENCH EXCAVATION.

2. ZONE 4 - 6" MIN. CONSOLIDATION EARTH BACKFILL INCLUDING TOPSOIL, NO ROCK ALLOWED.

3. ZONE 3 - CONSOLIDATED SOIL, (NO ROCK GREATER THAN 6" DIAMETER) NO. 9, 57 OR 78 STONE

4. ZONE 2 - FROM THE SPRINGLINE OF THE PIPE TO A DISTANCE 12 INCHES ABOVE THE PIPE, THE CONTRACTOR SHALL USE THE SAME MATERIAL AS SPECIFIED FOR BEDDING. COMPACTION IS REQUIRED IN AREAS SUBJECT TO TRAFFIC.

5. ZONE 1 - BEDDING MATERIAL, IN EARTH EXCAVATION AREAS, SHALL BE CLEAN EARTH, FREE FROM ROCKS. DEBRIS OR OTHER FOREIGN MATERIAL THE CONTRACTOR SHALL USE CRUSHED STONE, SAND OR GRAVEL AS BEDDING MATERIAL WHERE ROCK EXCAVATION IS ENCOUNTERED.

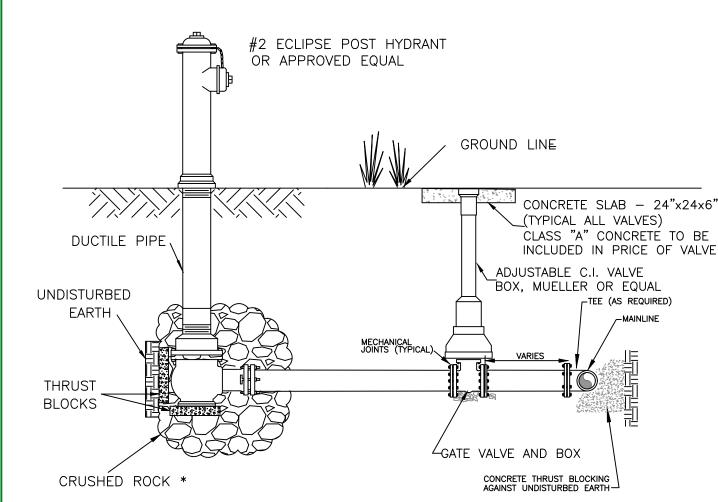
Hydrants shall be self-draining, non-freezing, compression type with 2-3/16" main valve opening. Outlet shall be 2-1/2"

Hydrants shall have a ductile iron pipe riser with a cast iron stock top, and non-turning operating rod. Principal interior operating parts shall be brass and removable from the hydrant for servicing without excavating the hydrant.

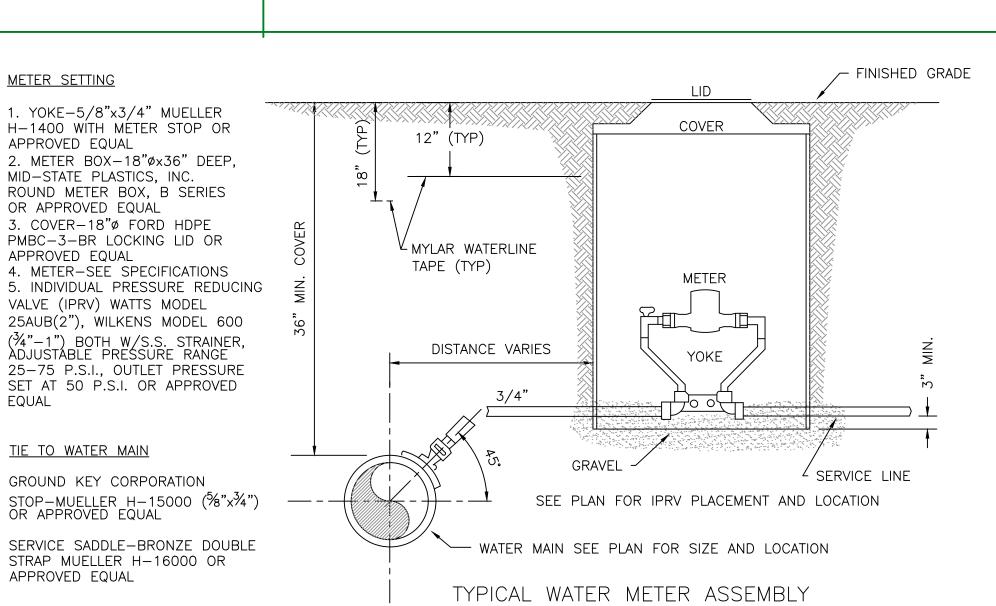
Hydrants shall be set in 4 cubic feet of crushed stone to allow for proper drainage of the hydrant. Recommendations of the AWWA should be followed when installing the hydrants.

Post hydrants shall be Eclipse No. 2 Post Hydrants as manufactured by John C. Kupferle Foundry Company, St. Louis, MO. OR APPROVED EQUAL.

> HYDRANT SHALL INCLUDE A SECURITY LOCKING DEVICE COMPATIBLE WITH THE INSTALLED HYDRANT. THE LOCK IS TO BE KEYED THE SAME AS THE DISTRICT'S EXISTING LOCKS.



FLUSHING HYDRANT ASSEMBLY



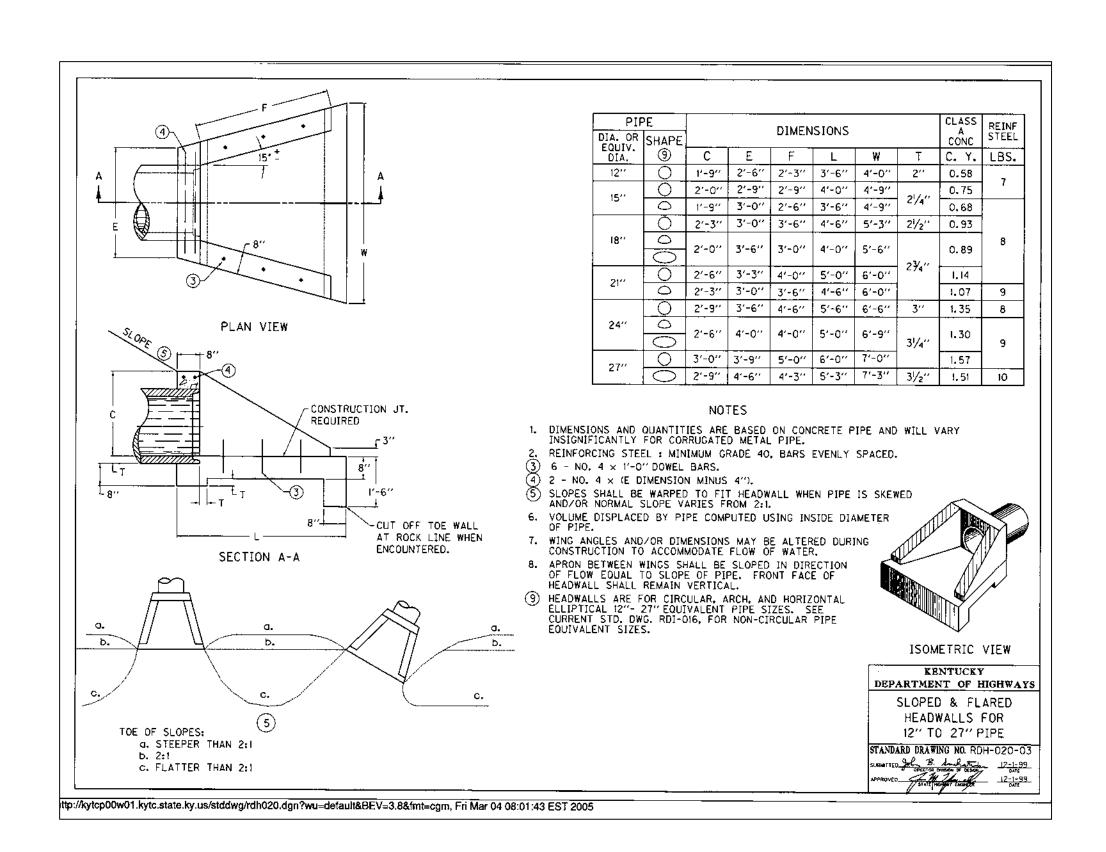
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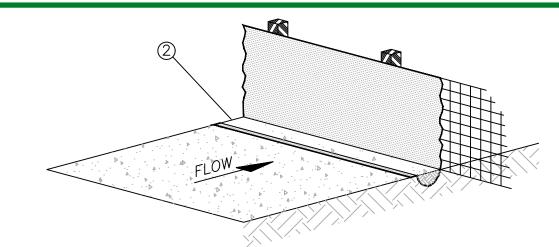
engineering,

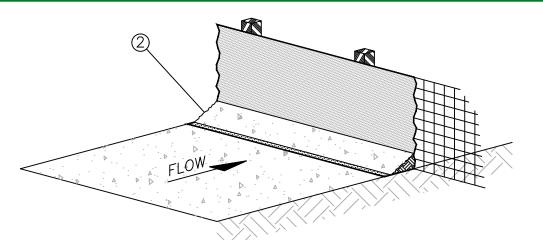
C-4

ROCK CHECK DAM DETAIL



KTC STANDARD DRAWING RDH-020-03





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WATERLINE EXTENSION STORAGE TANKS VATER DISTRICT ', KENTUCKY

CONTRAC BREAT BREAT

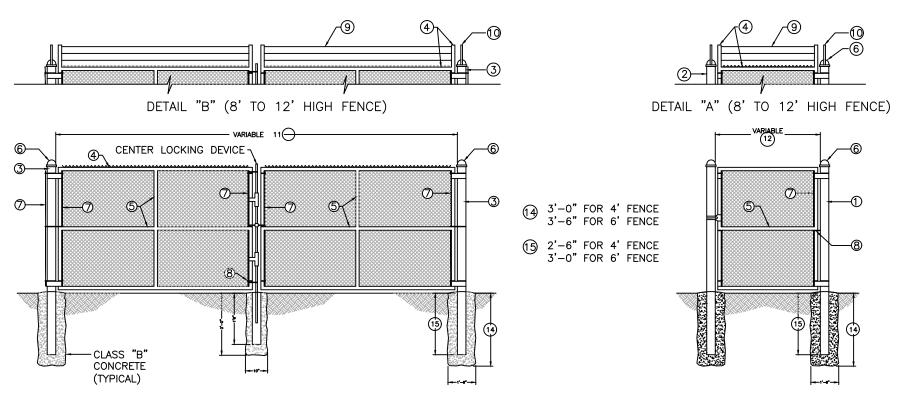
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ALTERNATE NO. 1

ALTERNATE NO. 2

- 1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- 2. THE BOTTOM 12 INCHES OF FABRIC SHALL BE BURIED IN A 6 INCH TRENCH CUT INTO THE GROUND OR COVERED BY 6 INCHES OF FILL MATERIAL, TO PREVENT SEDIMENT ESCAPING UNDER FENCE. ALL EARTHWORK SHALL BE ON THE UPSTREAM SIDE OF FENCE.

SILT CHECK FENCE SEDIMENTATION CONTROL NOT TO SCALE



VEHICULAR GATE (4' AND 6' HIGH FENCE)

ALL POSTS SHALL BE SET IN CONCRETE TO THE DIMENSIONS AS INDICATED ON THIS DRAWINGS.

ALL WELDED JOINTS SHALL BE CLEANED AND PAINTED WITH TWO (2) COATS OF ALUMINUM PAINT.

### PEDESTRIAN GATE (4' AND 6' HIGH FENCE)

### LEGEND - (ALTERNATIVES) TUBULAR END POST 2 1/2" OD @ 3.65#/LF | 3.5"x3.5" @ 5.10#/LF END POST 3" OD @ 5.79#/LF 3.5x3.5" @ 5.10#/LF VEHICULAR AND PEDESTRIAN GATES SHALL HAVE HEAVY PRESSED STEEL CORNERS SECURELY RIVETED OR SHALL NO ALTERNATIVE GATE POST 4" OD@ 9.1#/LF NO ALTERNATIVE GATE FRAME 2" OD @ 2.72#/LF NO ALTERNATIVE 5 1 5/8" OD @ 2.27#/LF 6 APPROVED CAPS NOT REQUIRED 7 FLAT TENSION BAR NOT REQUIRED 8 BRACE BAND AND TENSION BAND BARBED WIRE

BARBED WIRE ARMS

4' HIGH GATES SHALL HAVE 4' FABRIC HEIGHT. 6' HIGH GATES SHALL HAVE 6' FABRIC HEIGHT. 8' HIGH GATES SHALL HAVE 8' FABRIC HEIGHT. 9' HIGH GATES SHALL HAVE 9' FABRIC HEIGHT. 10' HIGH GATES SHALL HAVE 10' FABRIC HEIGHT. 11' HIGH GATES SHALL HAVE 11' FABRIC HEIGHT. 12' HIGH GATES SHALL HAVE 12' FABRIC HEIGHT.

BE MACHINE NOTCHED, AND ELECTRICALLY WELDED SO AS TO RIGID AND WATER TIGHT; AND EQUIPPED WITH

BARBED WIRE IS REQUIRED ON 8' TO 12' HIGH GATES. SEE DETAIL "A" AND "B" FOR INSTALLATION. THE CONTRACTOR IS NOT TO ORDER GATES UNTIL THEIR NECESSITY AND LOCATION HAVE BEEN CERTIFIED BY THE ENGINEER.

O.D. DEPICTED FOR TUBULAR POSTS IS NOMINAL - ASTM F 1083 SHALL GOVERN.

ALL FENCE FITTINGS SHALL COMPLY WITH ASTM F 626.

PADLOCKING DEVICE AND GROUND STOP.

(1) 6' TO 13' WIDTH FOR SINGLE GATE OR 12' TO 26' WIDTH FOR DOUBLE GATE.

(2) 4' TO 6' WIDTH.

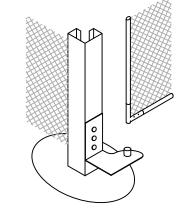
NOTES

THE CONTRACT UNIT PRICE FOR CHAIN LINK GATES SHALL BE:

1 FEET WIDE SINGLE VEHICULAR CHAIN LINK GATE 13 HIGH.

1 FEET WIDE DOUBLE VEHICULAR CHAIN LINK GATE 13 HIGH. (2) FEET WIDE PEDISTRIAN CHAIN LINK GATE 13 HIGH.

(3) AS SHOWN ON PLANS.

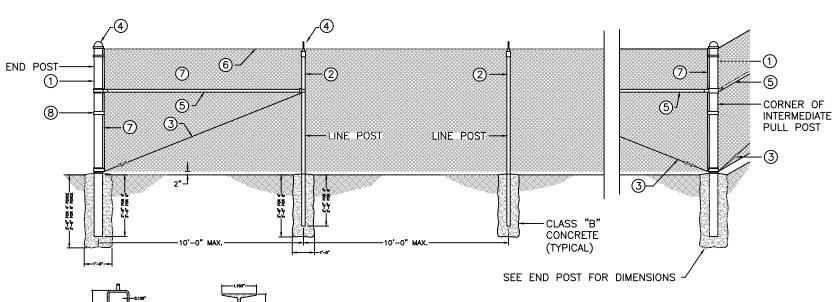


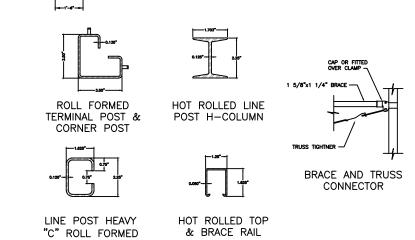
9 BARBED WIRE

10 BARBED WIRE ARMS

ROLL FORMED HINGE DETAIL

CHAIN LINK GATE DETAIL





| 0.1 | 255 - 2.55 2.55                   | BRACE AND TRUST CONNECTOR                             |
|-----|-----------------------------------|---|
|     |                                   | DLLED TOP<br>ACE RAIL                                 |
|     | LEGEND - (AI                      | TERNATIVES)   |
|     | TUBULAR                           | ROLL FORMED   |
| 1   | 2 1/2" OD @ 3.65#/LF              | 3.5"3.5" @ 5.10#/LF                                   |
| 2   | 2" OD @ 2.72#/LF                  | 2.25" H-COL. @ 3.26#/LF<br>OR 2.25" C-COL. @ 2.70#/LF |
| 3   | 3/8" DIA. TRUSS ROAD AND TIGHTNER | .375" DIA. TRUSS ROD AND TIGHTNER                     |
| 4   | APPROVED CAPS                     | NOT REQUIRED  |
| 5   | 1 5/8" BRACF @ 2.27#/IF           | 1.25"x1.625" @ 1.40#/LF                               |

6 1 5/8" OD @ 2.27#/LF

8 BRACE BAND AND TENSION BAND

7 FLAT TENSION BAR

ALL POSTS SHALL BE SET IN CONCRETE TO THE DIMENSIONS AS INDICATED ON THIS DRAWINGS.

4' HIGH FENCE SHALL HAVE 4' FABRIC HEIGHT. 6' HIGH FENCE SHALL HAVE 6' FABRIC HEIGHT. ALL FENCE FITTINGS SHALL COMPLY WITH ASTM F POST CAPS AND SOCKET TYPE BRACE END CONNECTIONS SHALL BE GALVANIZED PRESSED STEEL, CAST IRON OR OTHER TYPE AS APPROVED BY THE ENGINEER. THEY SHALL BE DESIGNED IN A MANNER TO EXCLUDE MOISTURE FROM INSIDE POSTS AND

O.D. DEPICTED FOR TUBULAR POSTS IS NOMINAL - ASTM F 1083 SHALL GOVERN. STRUCTURAL SHAPES SHALL CONFORM TO STD. SPEC. 816.07.01 EXCEPT YIELD SHALL BE A MIN. 45,000 INDISCRIMINATE MIXING OF POSTS WILL NOT BE

TENSION WIRE COMPLYING WITH ASTM A 824 SHALL BE SUBSTITUTED FOR THE TOP RAIL WHEN THE FENCE IS TO BE INSTALLED IN THE PATH OF AN ERRANT VEHICLE.



WATER K WATE

CHAIN LINK FENCE DETAIL