

CITY OF DANVILLE McKINNEY WATER DISTRICT PHASE 1A - CONTRACT 1

WATER MAIN CONNECTION (DIVISION 1)
CITY OF DANVILLE TO MASTER METER
JUNCTION CITY, LINCOLN COUNTY, KENTUCKY

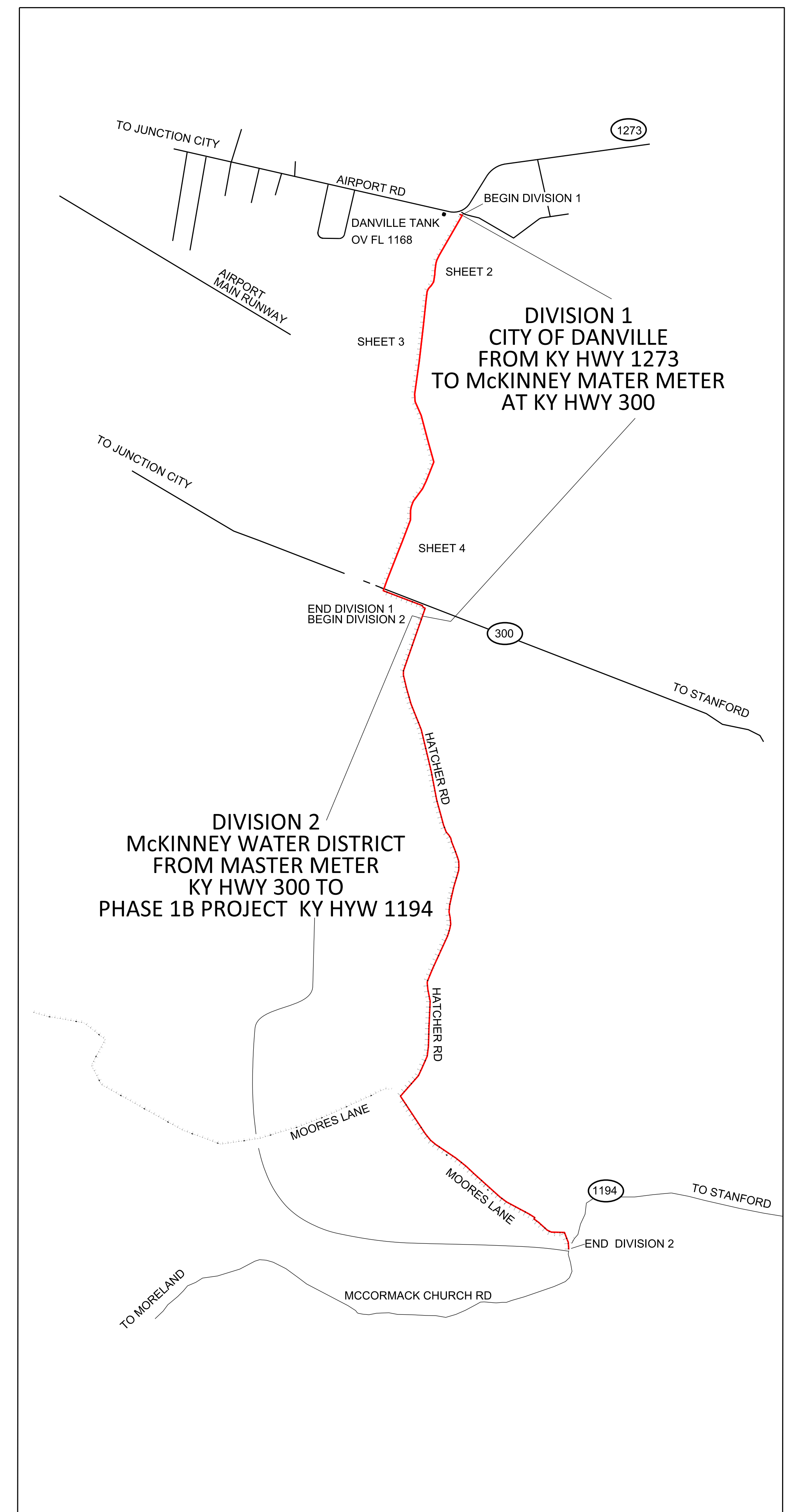
SHEET LEGEND

| | |
|-------------------------|-----|
| COVER SHEET | 1 |
| PLAN AND PROFILE SHEETS | 2-4 |
| DETAILS | 5-6 |
| GENERAL NOTES | 7-8 |

ENGINEER



P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40484
PHONE (606) 365-8362
FAX (606) 365-1097



VICINITY MAP



STA 0+00 - VERIFY LOCATION OF EXISTING 8-INCH WATER MAIN
INSTALL 8-INCH WET TAP WITH STAINLESS STEEL OR DUCTILE IRON FULL CIRCLE TAPPING SLEEVE AND TAPPING VALVE

STA 0+00 - BEGIN CONSTRUCTION OF 8,260 FEET OF 8-INCH C-900 DR 18 PVC PIPE
PHASE 1A - DIV 1 - CITY OF DANVILLE TO MASTER METER

STA 0+25 - REPAIR EXISTING GRAVEL DRIVE (2T)

STA 0+35 TO STA 25+00 - REPAIR EXISTING GRAVEL DRIVE (300T)

STA 5+28 - INSTALL AIR RELEASE (SEE MANUAL DETAIL)

STA 8+53 - CUT AND REPAIR WOVEN WIRE FENCE (20 FT)

STA 13+50 - LOCATE EXISTING CULVERT PIPE CONSTRUCT UNDER CULVERT PIPE AND REPAIR AS NEEDED

STA 17+75 - REPAIR EXISTING GRAVEL DRIVE (2T)

STA 21+15 - REPAIR EXISTING GRAVEL DRIVE (2T)

STA 23+52 - INSTALL AIR RELEASE (SEE MANUAL DETAIL)

STA 28+35 - CUT AND REPAIR WOVEN WIRE FENCE (20 FT)



DATE: 01/04/22
SCALE: 1" = 100'
DRAWN BY: M.S.
APPROVED BY: GOOCH
FILENAME: 18298PH1A

PHASE 1A (DIVISION 1) WATER PROJECT
DANVILLE TO MCKINNEY CONNECTION
8" WATER MAIN
STANFORD, LINCOLN COUNTY, KENTUCKY

CLIENT:
CITY OF DANVILLE
P.O. BOX 670
DANVILLE, KY 40422

P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40484
PHONE (606) 365-8362
FAX (606) 365-1097



| REVISION(S) |
|-------------|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |



STA 33+50 - REPAIR EXISTING FENCE (20')
STA 43+35 - INSTALL STREAM CROSSING TYPE 1

STA 41+75 - REPAIR EXISTING FENCE (20')
STA 48+65 - INSTALL STREAM CROSSING TYPE 1

STA 44+23 - INSTALL AIR RELEASE (SEE MANUAL DETAIL)



SHEET 3 CONSTRUCT 2,800 FT OF 8-INCH C-900 DR 18 PVC WATER PIPE



DATE: 01/04/22
SCALE: 1" = 100'
DRAWN BY: M.S.
APPROVED BY: GOOCH
FILENAME: 18298PH1A

PHASE 1A WATER PROJECT (DIVISION 1)
DANVILLE TO MCKINNEY CONNECTION
8" WATER MAIN
STANFORD, LINCOLN COUNTY, KENTUCKY

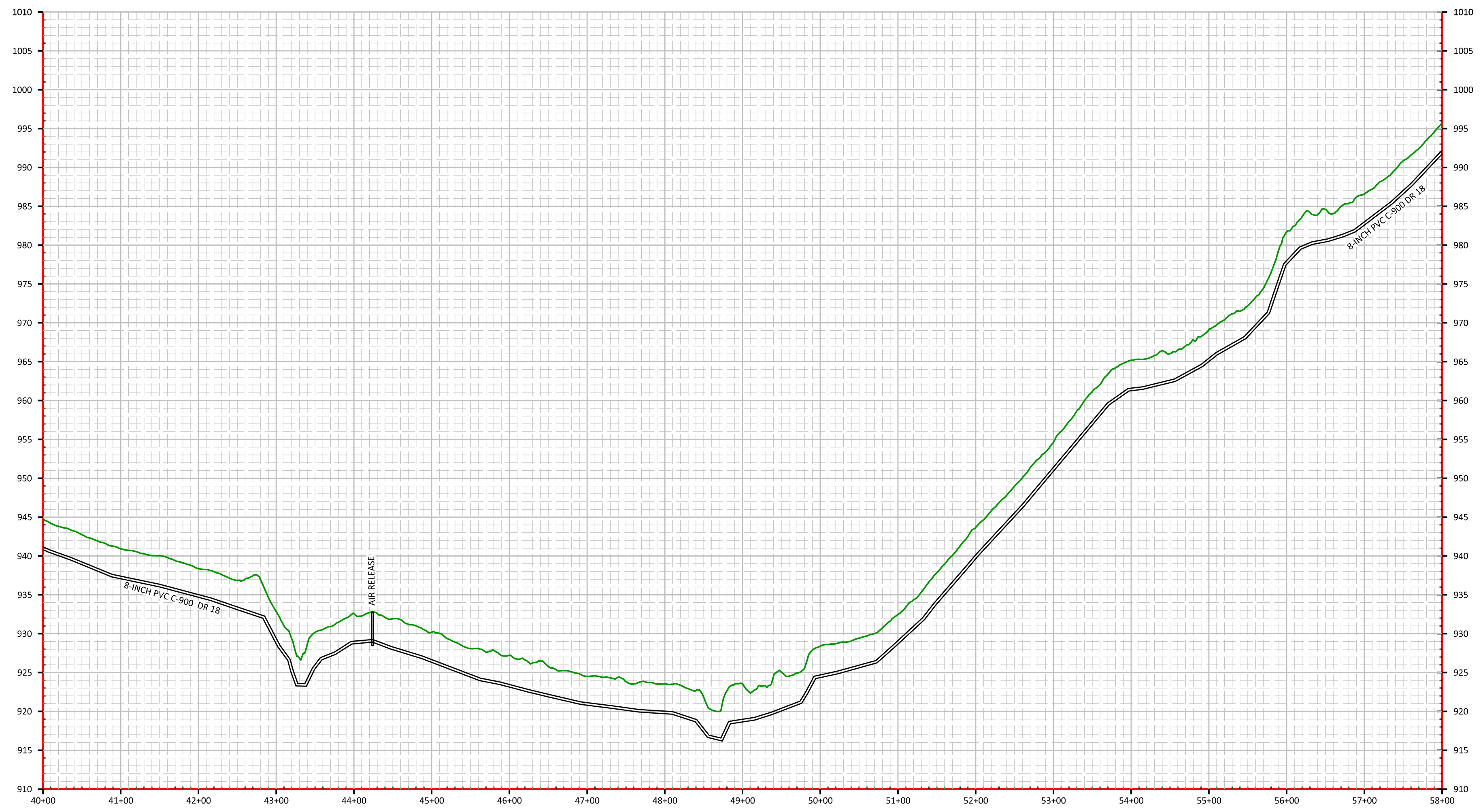
CLIENT:
CITY OF DANVILLE
P.O. BOX 670
DANVILLE, KY 40422

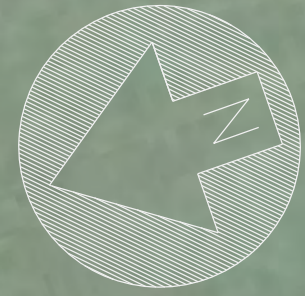
P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40464
PHONE (606) 365-8362
FAX (606) 365-1097



REVISION(S)

| |
|--|
| |
| |
| |
| |
| |
| |





STA 65+40 - CUT AND REPAIR WOVEN WIRE FENCE (20 FT)

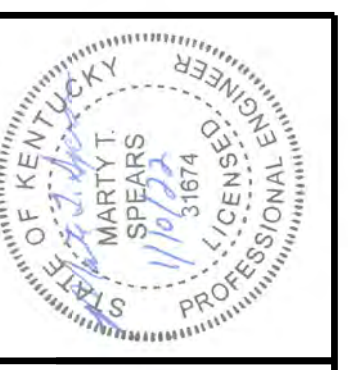
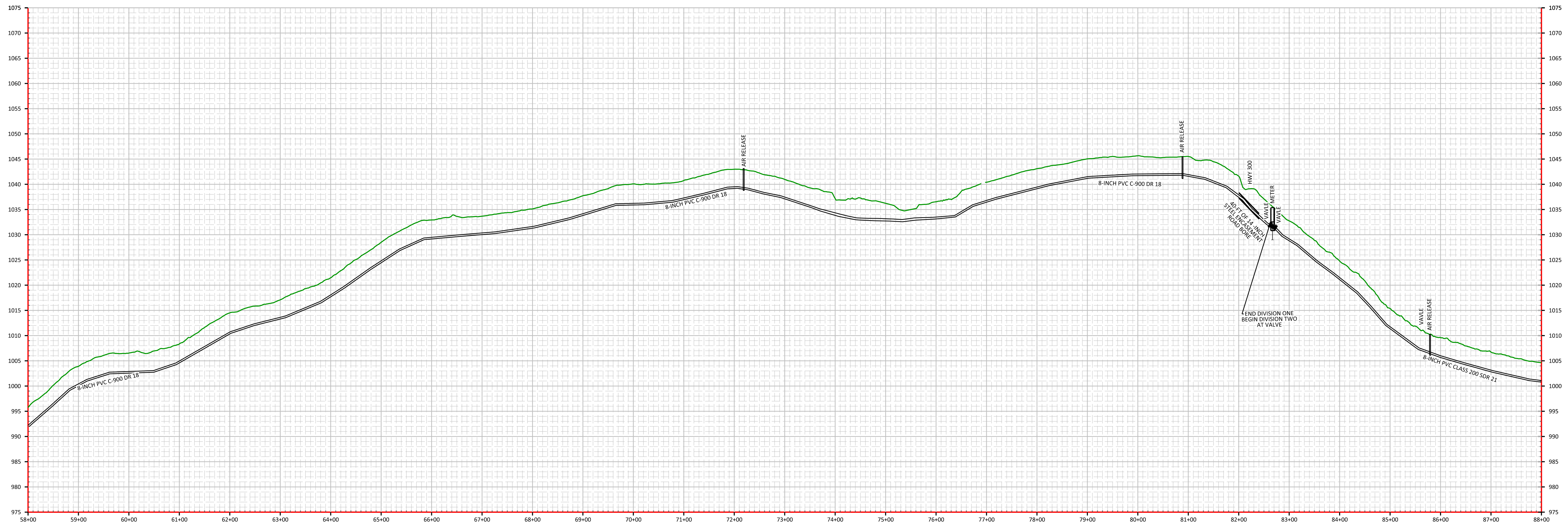
STA 72+19 - INSTALL AIR RELEASE (SEE AUTOMATIC DETAIL)

STA 80+20 - REPAIR ASPHALT DRIVEWAY (60 SF)

STA 82+00 - INSTALL 40-FOOT ROADWAY BORE WITH 14 INCH STEEL INCASEMENT PIPE

STA 80+88 - INSTALL AIR RELEASE (SEE AUTOMATIC DETAIL)

STA 82+51 - INSTALL 8-INCH GATE VALVE AT END OF CONTRACT 1



DATE: 01/04/22
SCALE: 1" = 100'
DRAWN BY: M.S.
APPROVED BY: GOOCH
FILENAME: 18298PH1A

PHASE 1A WATER PROJECT (DIVISION 1)
DANVILLE TO MCKINNEY CONNECTION
8" WATER MAIN
STANFORD, LINCOLN COUNTY, KENTUCKY

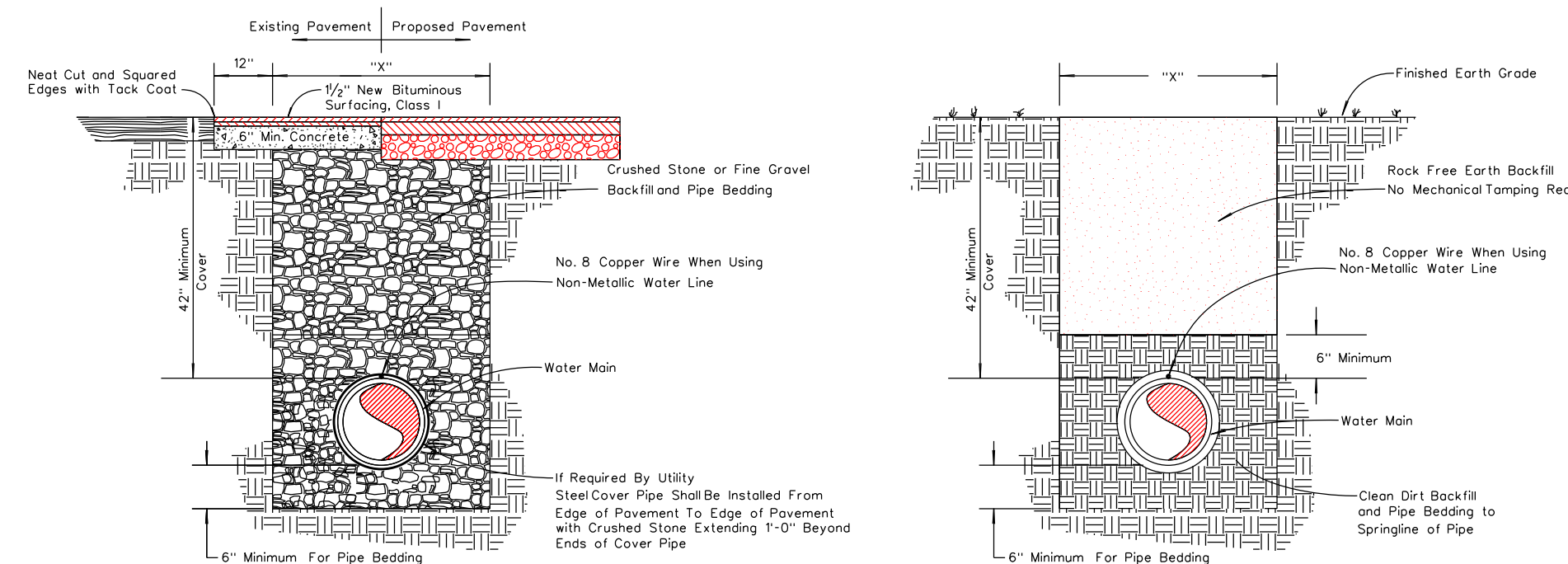
CLIENT:
CITY OF DANVILLE
P.O. BOX 670
DANVILLE, KY 40422

P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40484
PHONE (606) 365-8362
FAX (606) 365-1097



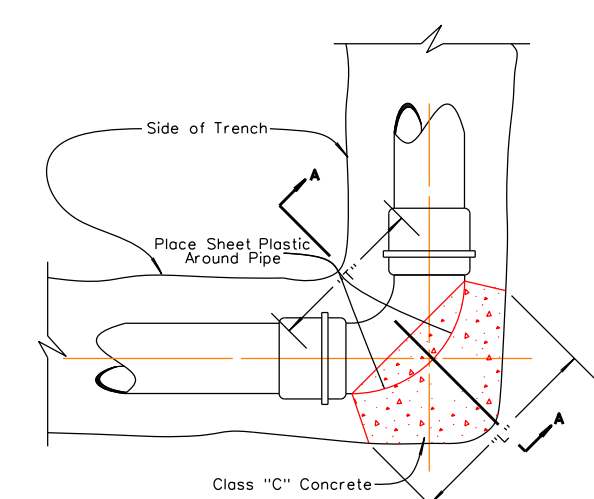
REVISION(S)

| |
|--|
| |
| |
| |
| |
| |
| |

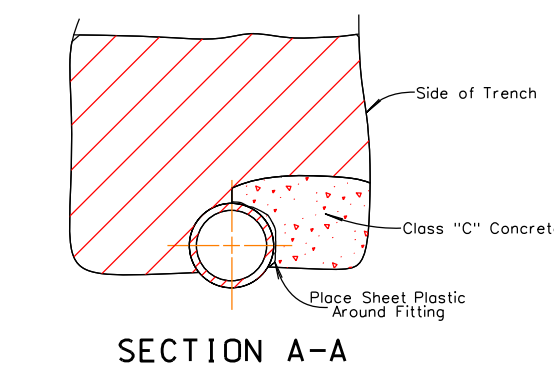


PAVED or CONCRETE AREAS
EARTH AREAS
TYPICAL BACKFILL & BEDDING METHODS

| TRENCH WIDTH | |
|--------------|-----|
| PIPE SIZE | "x" |
| 4" Thru 12" | 30" |
| 14" Thru 18" | 36" |
| 20" Thru 24" | 42" |
| 26" Thru 36" | 54" |

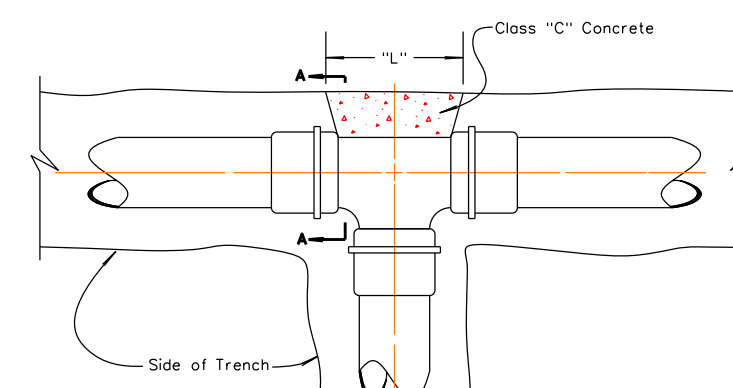


45° AND 90° BENDS



PLUGS

CONCRETE THRUST BLOCK



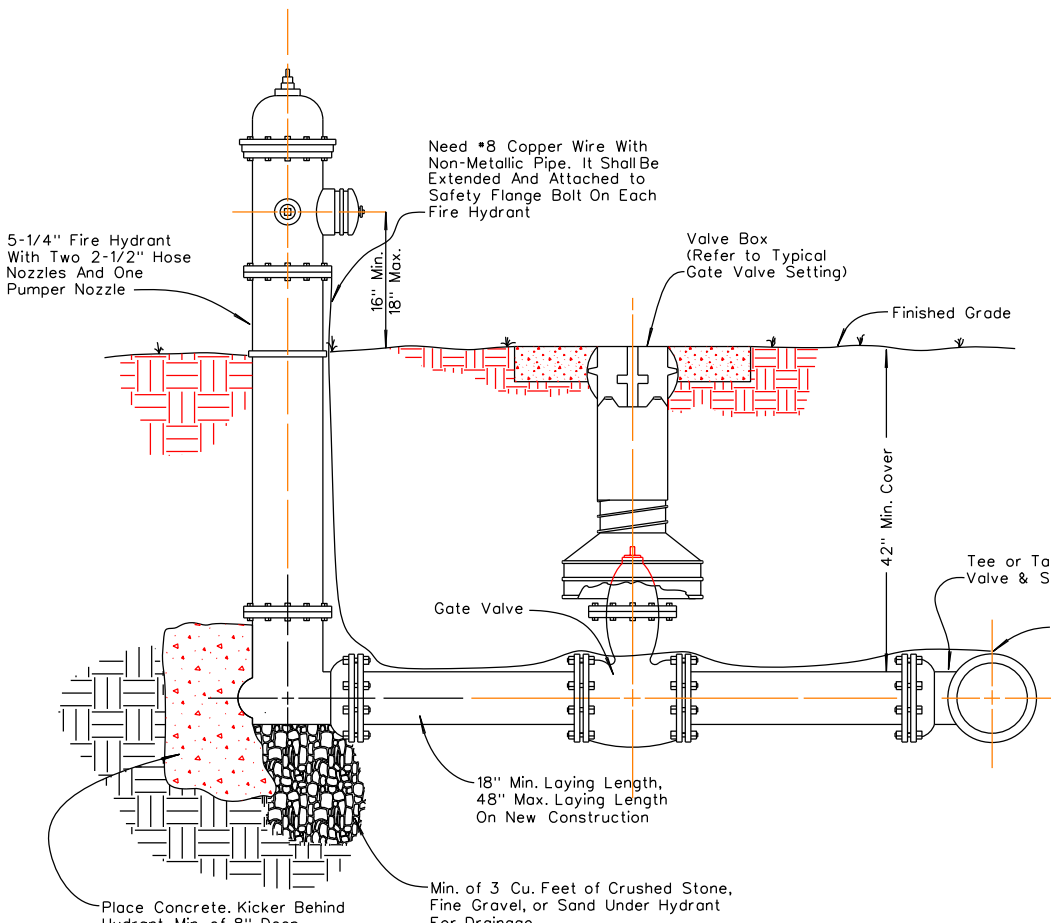
TEES

ALL FITTINGS DI MJ WITH GRIP RING ABOVE 100 PSI FOR PRESSURE ABOVE 100 PSI INCREASE BY 100%

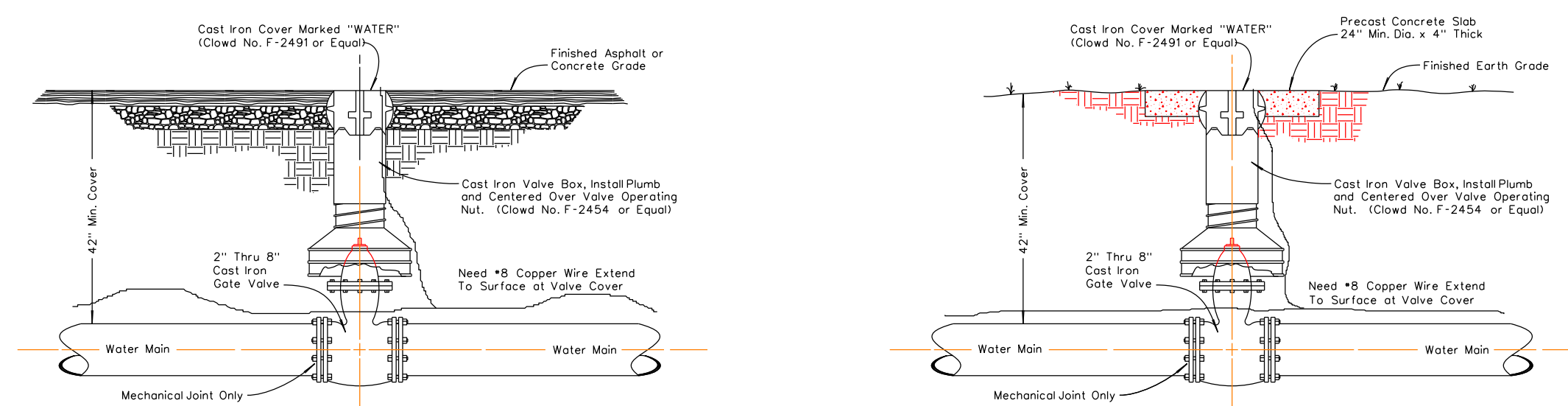
| PLUGS AND TEES | | | | | | |
|----------------|-----|-----|-----|-----|-----|-----|
| SIZE | 2" | 3" | 4" | 6" | 8" | 10" |
| D | 6" | 6" | 6" | 6" | 6" | 6" |
| L&W | 14" | 16" | 18" | 20" | 22" | 24" |

| (45°) EIGHTH BENDS | | | | | | |
|--------------------|-----|-----|-----|-----|-----|-----|
| SIZE | 2" | 3" | 4" | 6" | 8" | 10" |
| D | 6" | 6" | 6" | 6" | 6" | 6" |
| L | 14" | 16" | 18" | 20" | 22" | 24" |
| T | 10" | 12" | 14" | 16" | 18" | 18" |

| (90°) QUARTER BENDS | | | | | | |
|---------------------|-----|-----|-----|-----|-----|-----|
| SIZE | 2" | 3" | 4" | 6" | 8" | 10" |
| D | 6" | 6" | 6" | 6" | 6" | 6" |
| L | 15" | 18" | 21" | 24" | 27" | 30" |
| T | 10" | 12" | 14" | 16" | 18" | 20" |

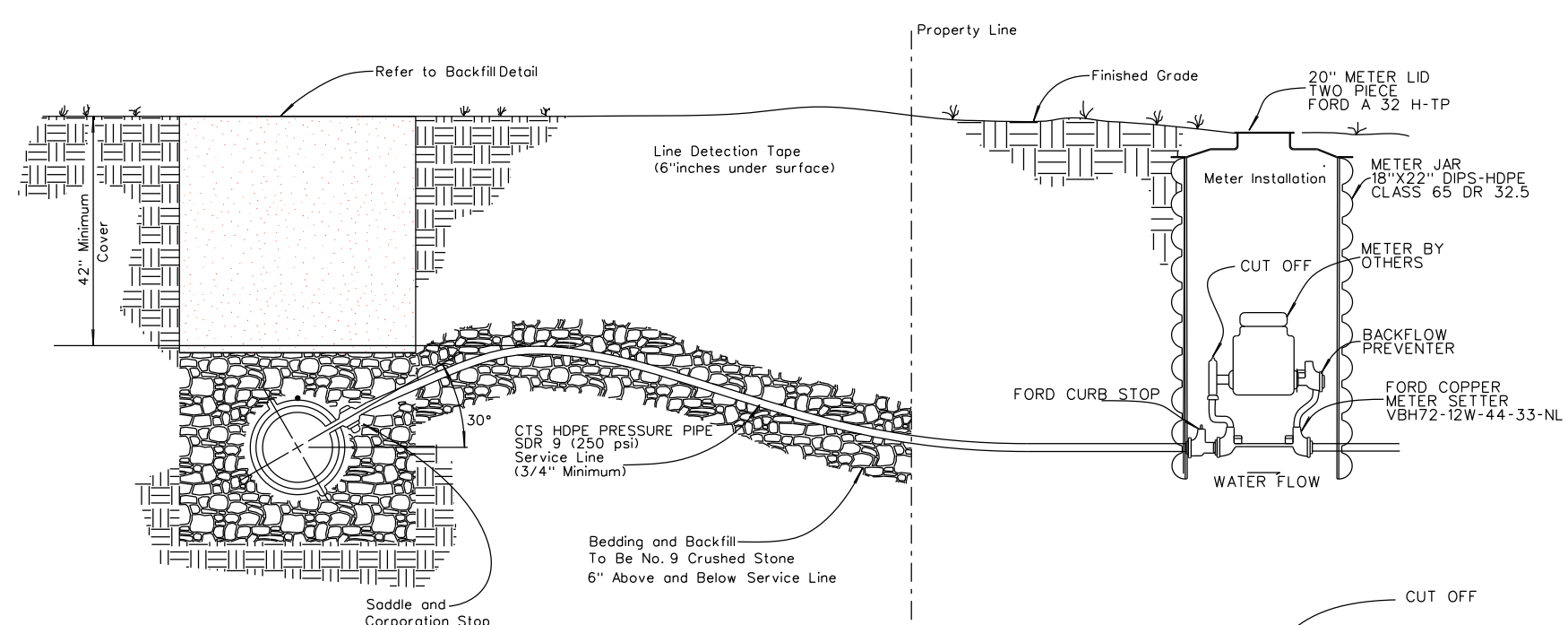


TYPICAL FLUSH HYDRANT SETTING

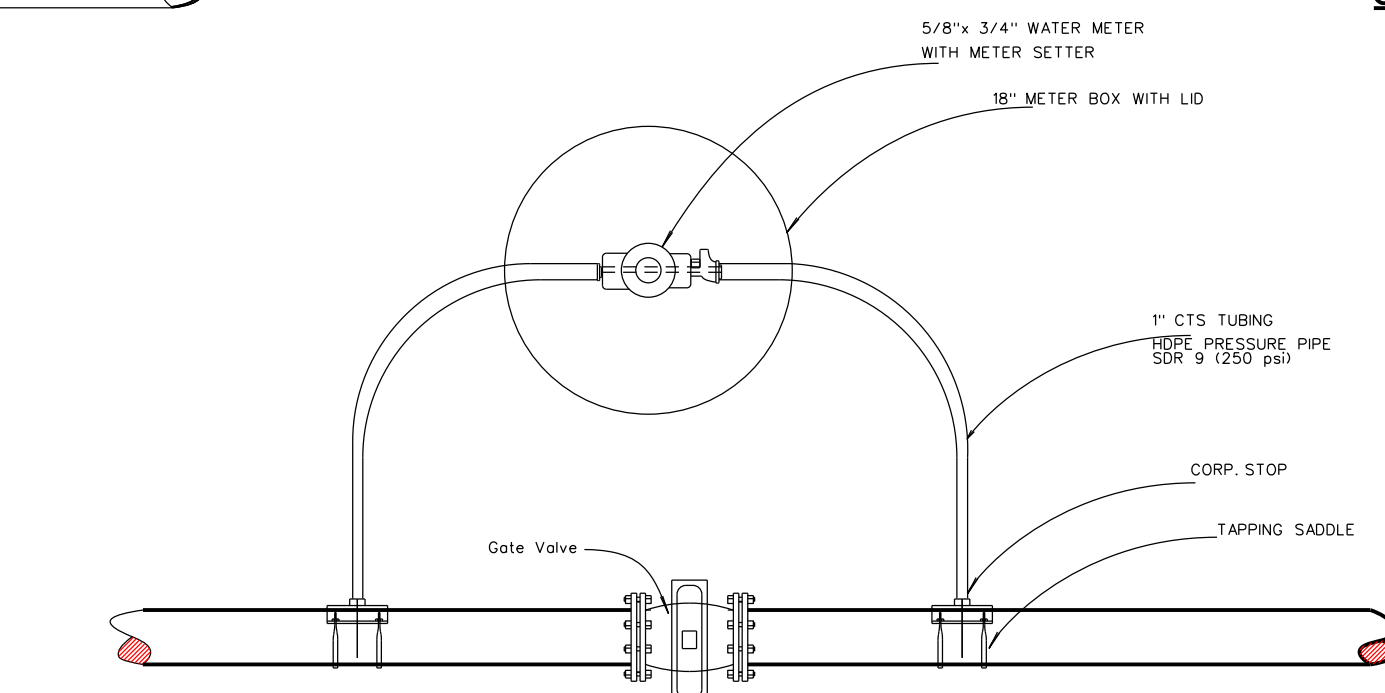


PAVED or CONCRETE AREAS
EARTH AREAS
TYPICAL GATE VALVE SETTING

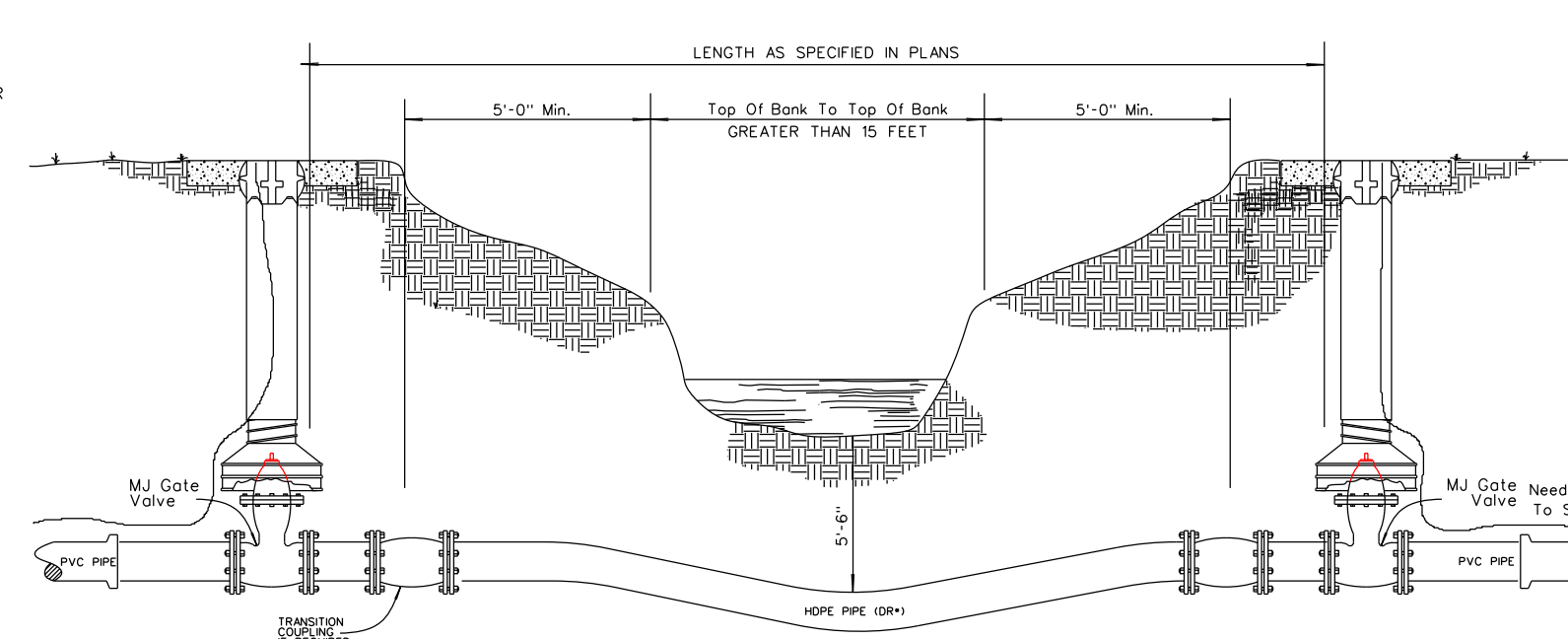
TYPICAL GATE VALVE SETTING



TYPICAL 3/4" 1" AND 2" SERVICE CONNECTION

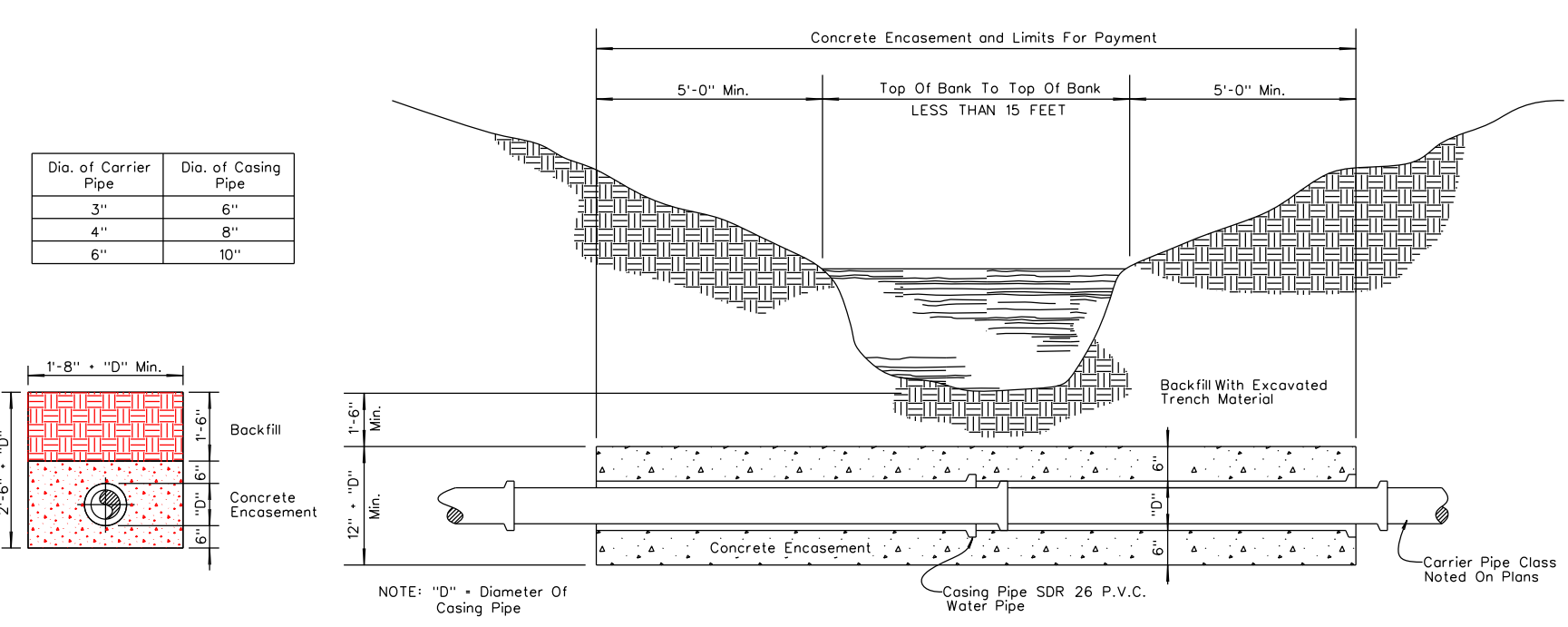


TEST METERS AT VALVES WHERE REQUIRED OR AT ALL TYPE II STREAM CROSSING

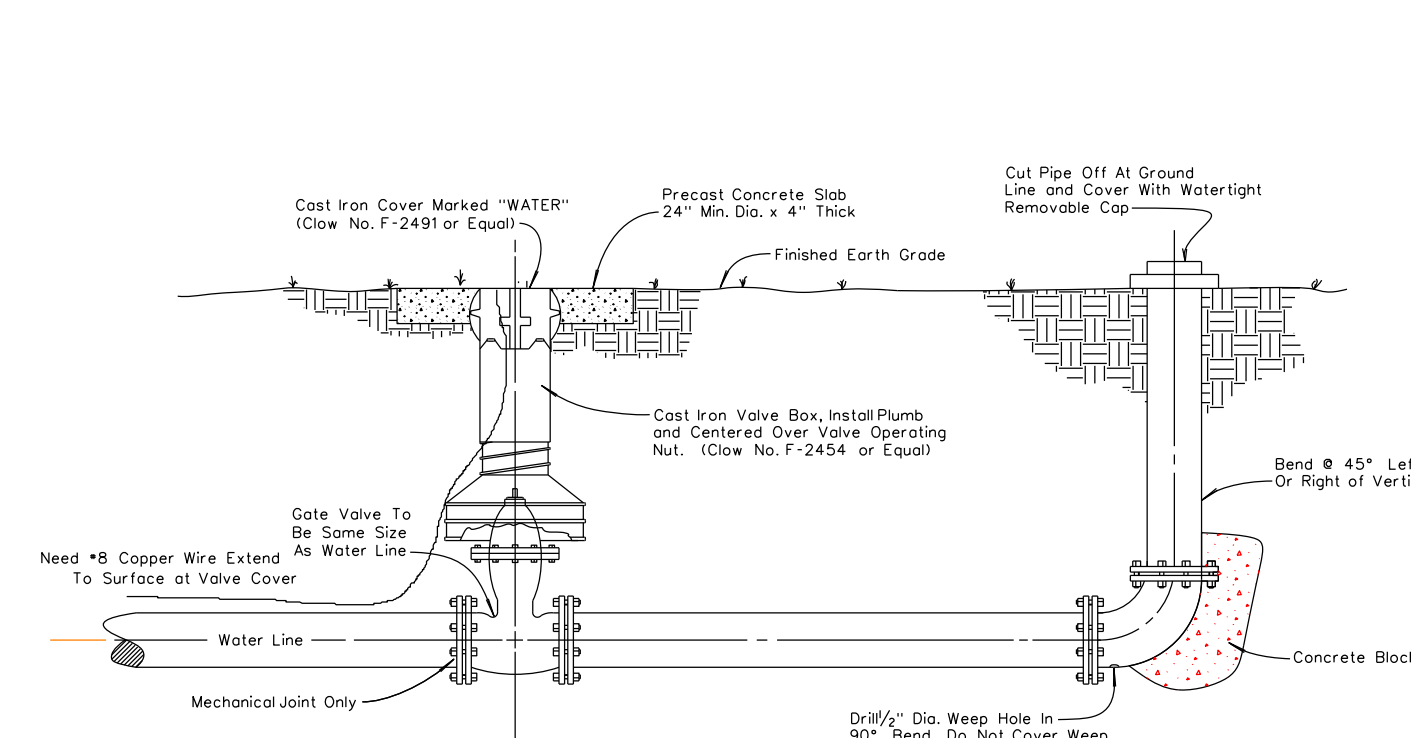


| CLASS | PRESSURE (PSI) |
|--------|----------------|
| DR 7.3 | 350 |
| DR 9 | 250 |
| DR 11 | 200 |

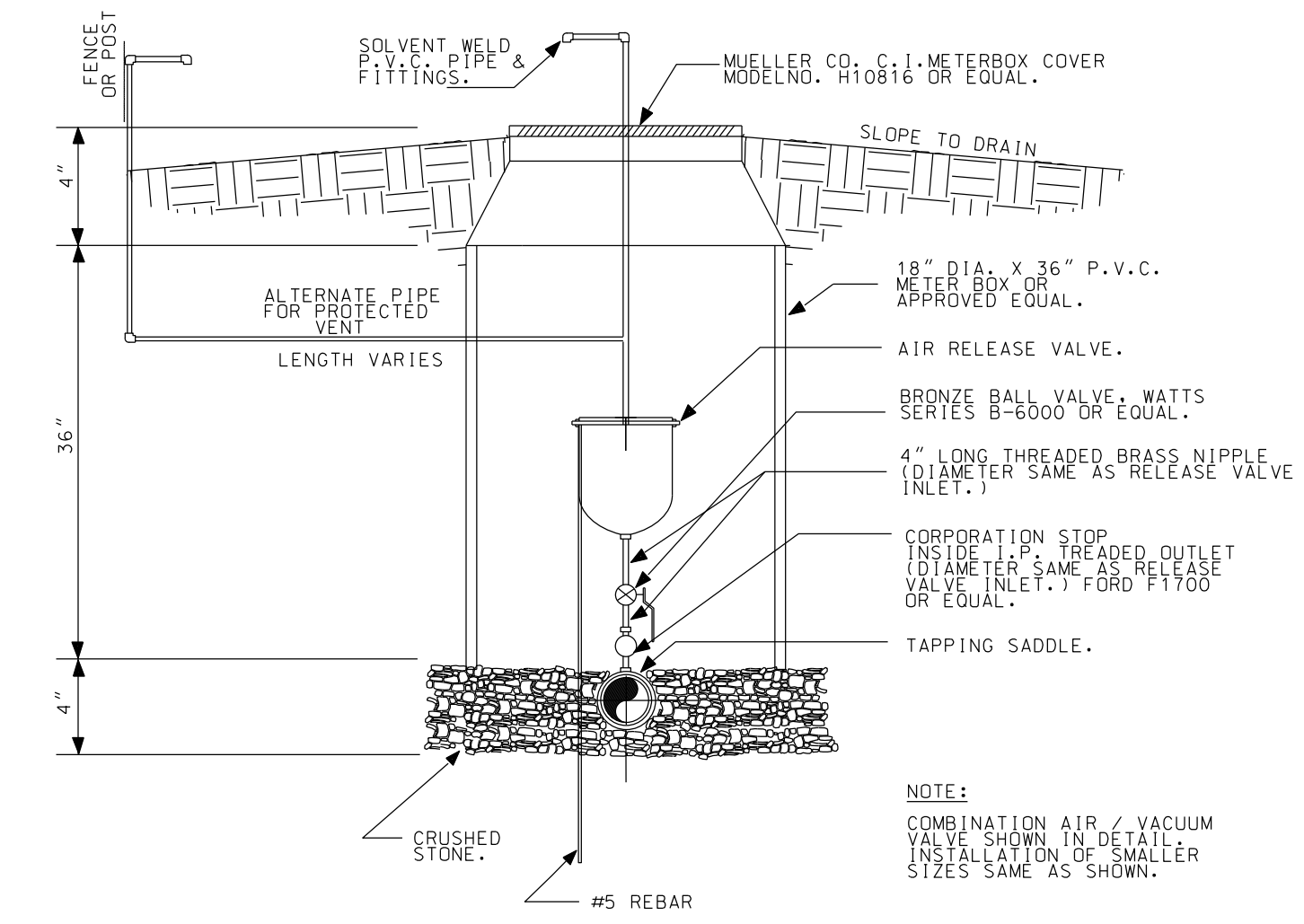
TYPE II STREAM CROSSING STREAM CROSSING BORE WITH HDPE WATERLINE



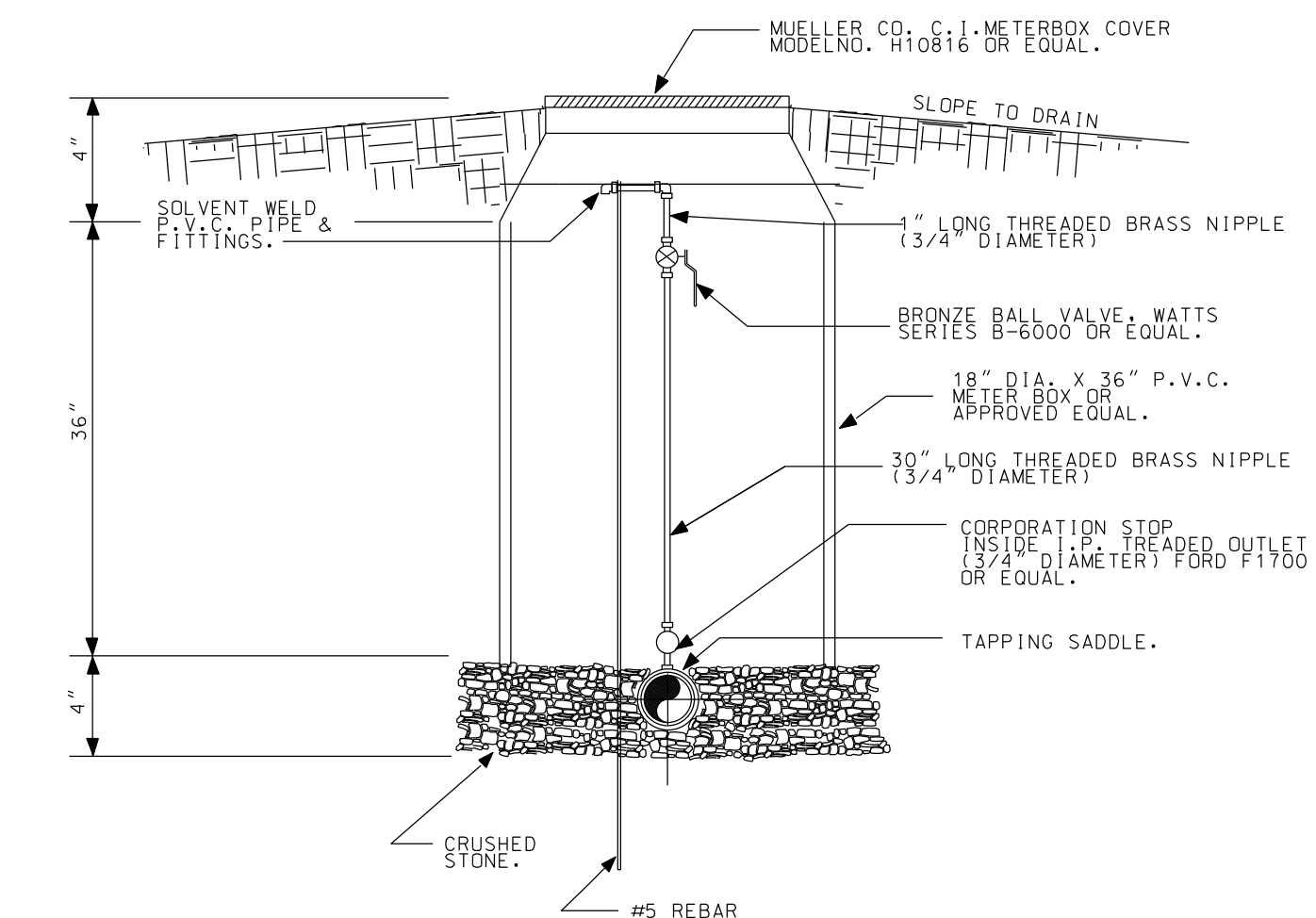
TYPE I STREAM CROSSING STREAM CROSSING ON P.V.C. WATERLINE



TYPICAL BLOW-OFF VALVE DETAIL (4" OR SMALLER)



AUTOMATIC LINE AIR RELEASE DETAIL



MANUAL AIR RELEASE DETAIL

DATE: 10/04/19
SCALE: 1" = 10'
DRAWN BY: M.S.
APPROVED BY: GOOCH
FILENAME: 1829SDANCON

WATER PROJECT
PHASE 1A CONTRACT 1 DIVISION 1
DETAILS
STANFORD, LINCOLN COUNTY, KENTUCKY

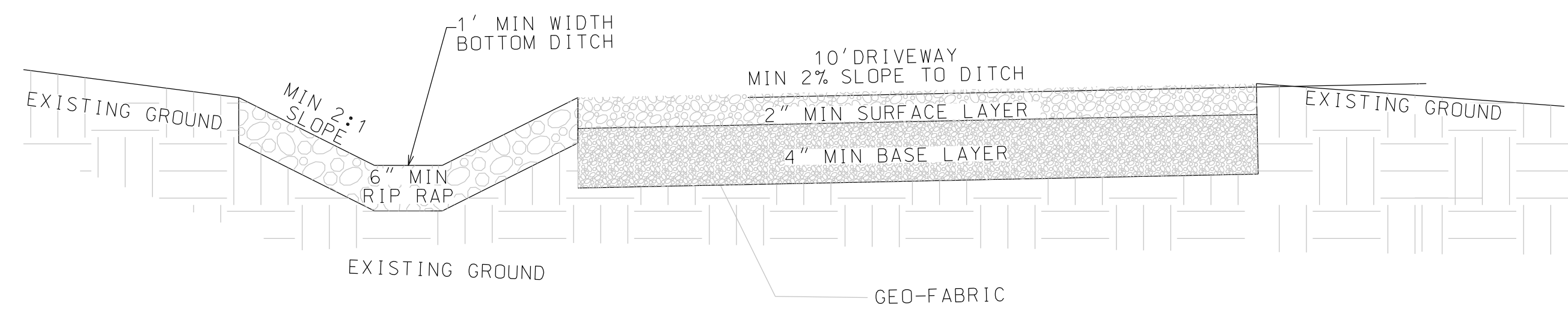
CLIENT: MCKINNEY WATER DISTRICT
2900 MIDDLEBURG RD
MCKINNEY, KY 40464

P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40464
PHONE (606) 365-8362
FAX (606) 365-1097



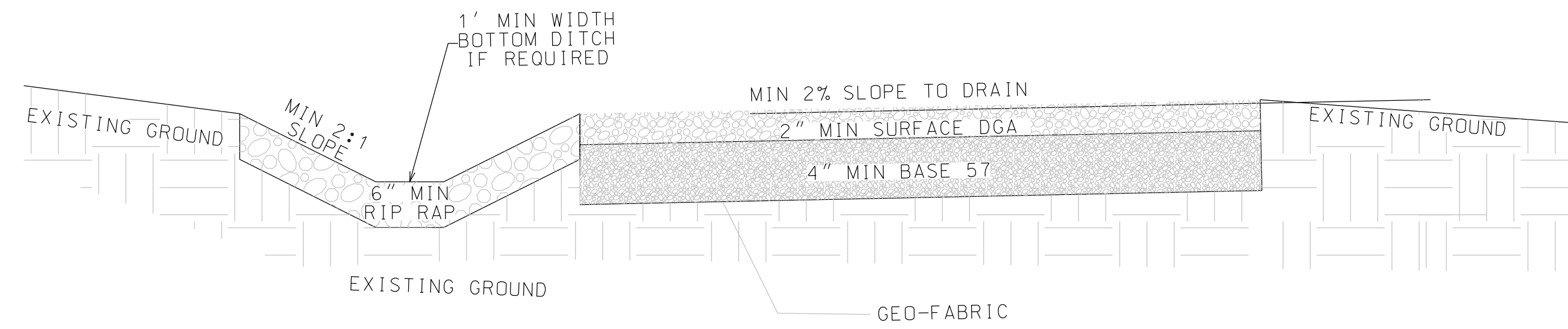
REVISION(S)

SHEET: 5 OF 8



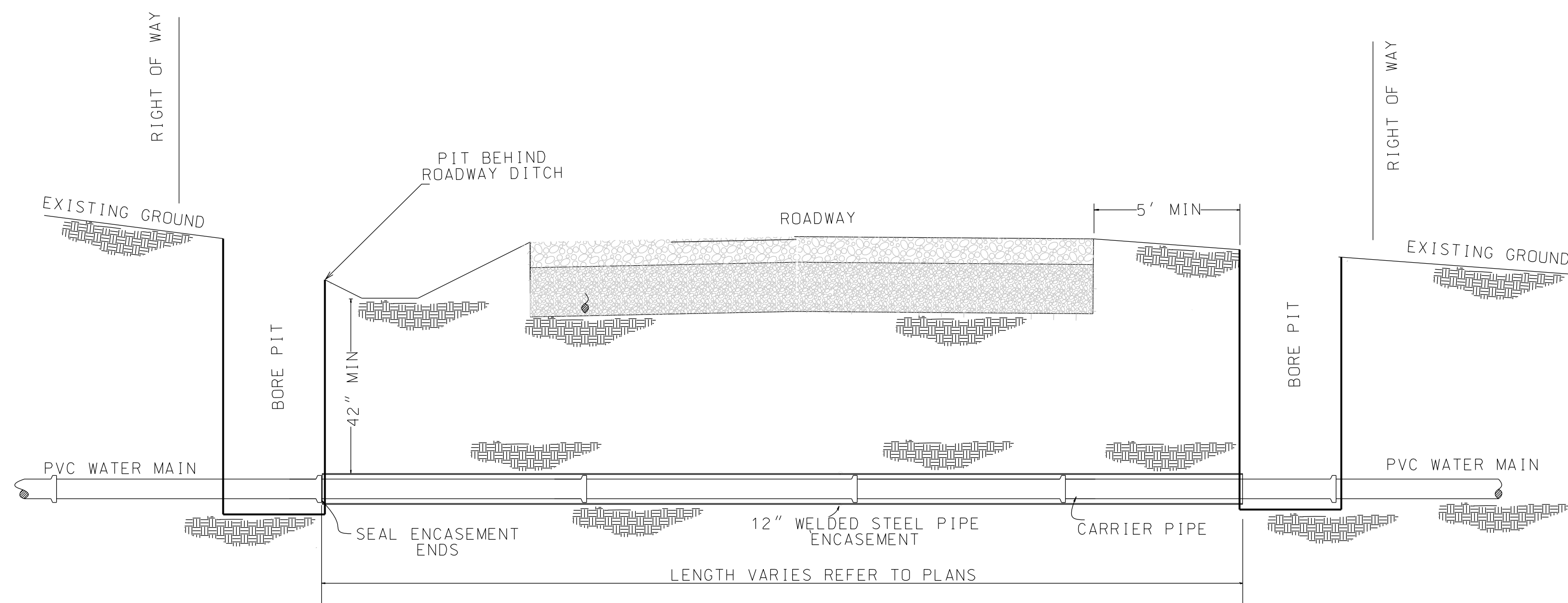
CONTACT ENGINEER FOR FIELD VERIFICATION
OF SOIL CONDITIONS FOR ROCK CLASSIFICATION
OF BASE LAYER AND SURFACE LAYER

TYPICAL SECTION FOR DRIVEWAY
CONSTRUCTION WITH DITCH



CONTACT ENGINEER FOR FIELD VERIFICATION
OF SOIL CONDITIONS

TYPICAL SECTION FOR PARKING
CONSTRUCTION



TYPICAL SECTION FOR
HIGHWAY BORE

DATE: 10/04/19
SCALE: 1" = 10'
DRAWN BY: M.S.
APPROVED BY: GOOCH
FILENAME: 18295DANCON

WATER PROJECT
PHASE 1A DIVISION 1
DETAIL
STANFORD, LINCOLN COUNTY, KENTUCKY

CLIENT:
McKINNEY WATER DISTRICT
2900 MIDDLEBURG RD
McKINNEY, KY 40448

P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40464
PHONE (606) 365-8362
FAX (606) 365-1097



| REVISION(S) |
|-------------|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

KENTUCKY TRANSPORTATION CABINET NOTES

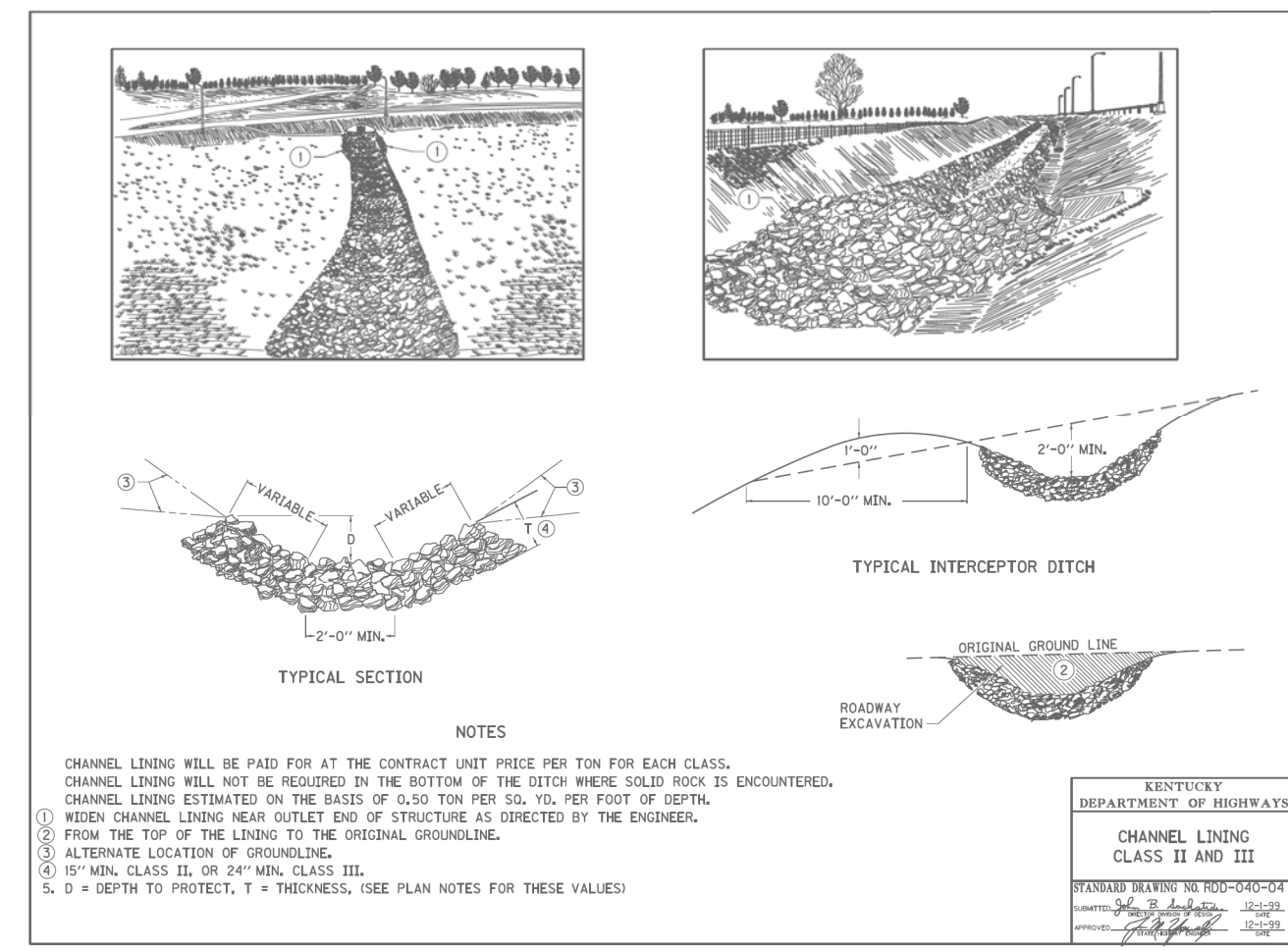
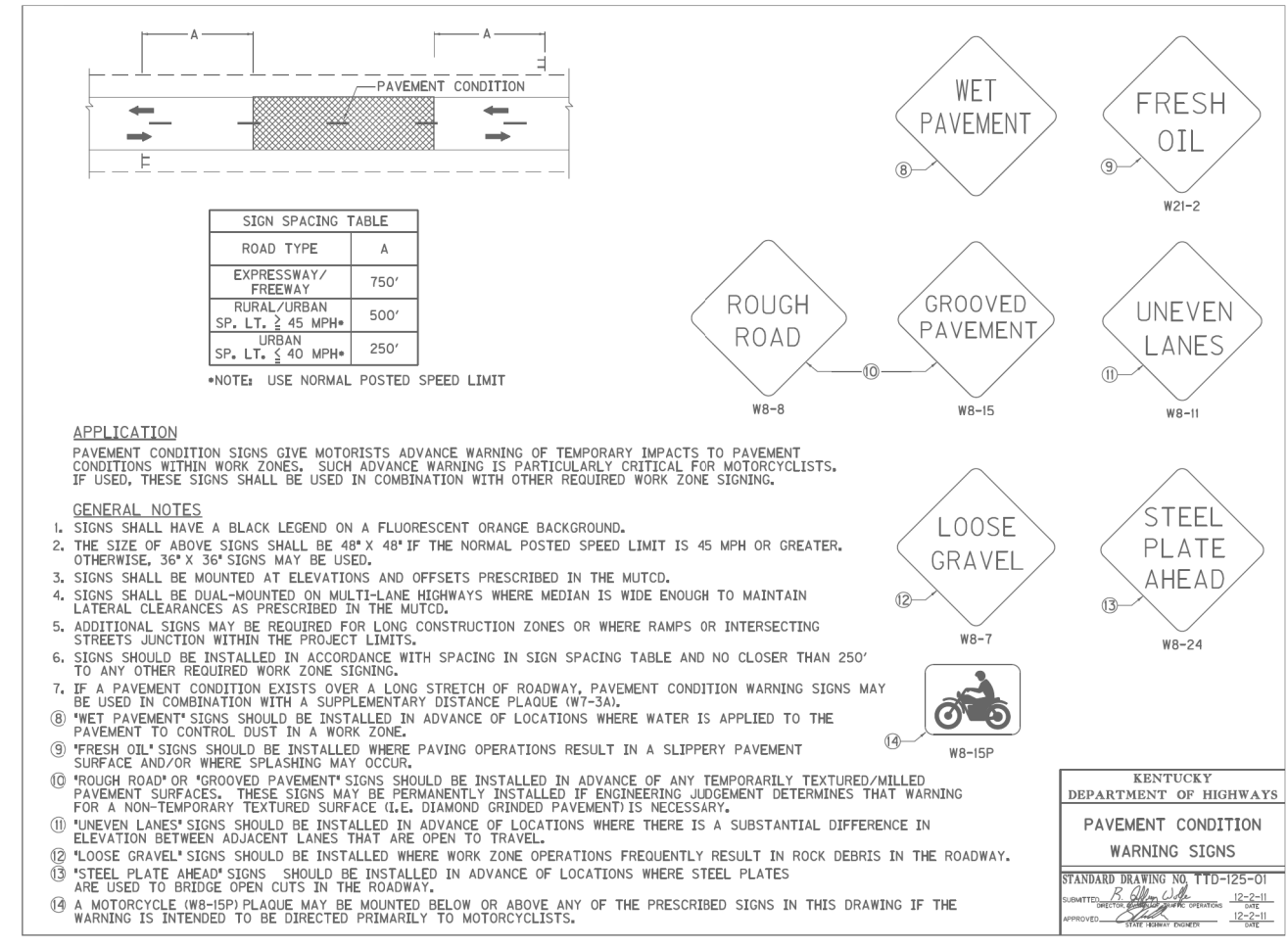
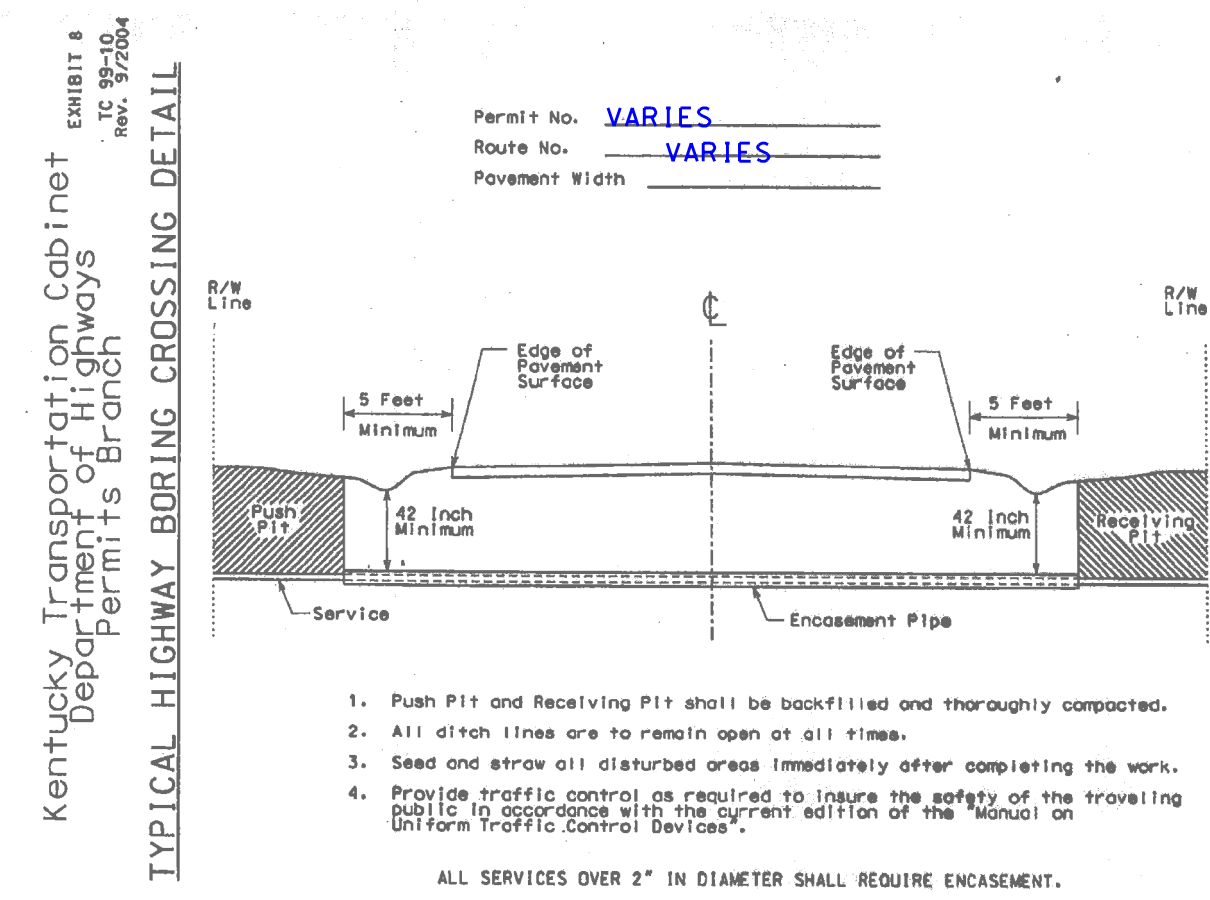
THE CONTRACTOR SHALL CONFORM AND INCLUDE IN HIS BID THE FOLLOWING REQUIREMENTS TO COMPLY WITH THE STATE HIGHWAY CROSSING PERMIT:

- 1) ALL ROADSIDE FEATURES (DITCHES, SLOPES, SIDEWALK, ETC.) SHALL BE RESTORED TO MATCH EXISTING CONDITION.
- 2) ALL STORMWATER CULVERTS SHALL BE AS DIRECTED BY THE ENGINEER:
 - A) PROTECTED IN PLACE DURING CONSTRUCTION OR
 - B) IF A IS NOT AN OPTION, REMOVED AND REINSTALLED TO EXISTING CONDITION OR
 - C) IF NEITHER A OR B IS POSSIBLE, REPLACED WITH NEW PIPE TO MATCH EXISTING CONDITION.
- 3) THE MINIMUM DEPTH FOR UNDERGROUND UTILITIES IS 42" ON ALL STATE RIGHT OF WAY.
- 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH APPROPRIATE TEMPORARY TRAFFIC CONTROL AS DESCRIBED IN THE LATEST EDITION OF THE MUTCD.
- 5) THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN ONE LANE TRAFFIC ON STATE AND LOCAL ROADS DURING CONSTRUCTION WITH APPROPRIATE TRAFFIC CONTROL INCLUDING FLAGMEN IF REQUIRED. STREET CLOSURE REQUIRES ENGINEER APPROVAL AND NOTIFICATION OF AFFECTED TRAVELERS AND IS PROHIBITED ON STATE ROADS.

LINCOLN COUNTY
 Department of Highways, District Eight
 P.O. Box 780
 1660 South US 27
 Somerset, Kentucky 42502
 Phone: (606) 677-4017
 Fax: (606) 677-4013

DATE: 04/05/2019
 SCALE: 1" = 50' H 1" = 5' V
 DRAWN BY: MS
 APPROVED BY: GOOCH
 FILENAME: NOTES

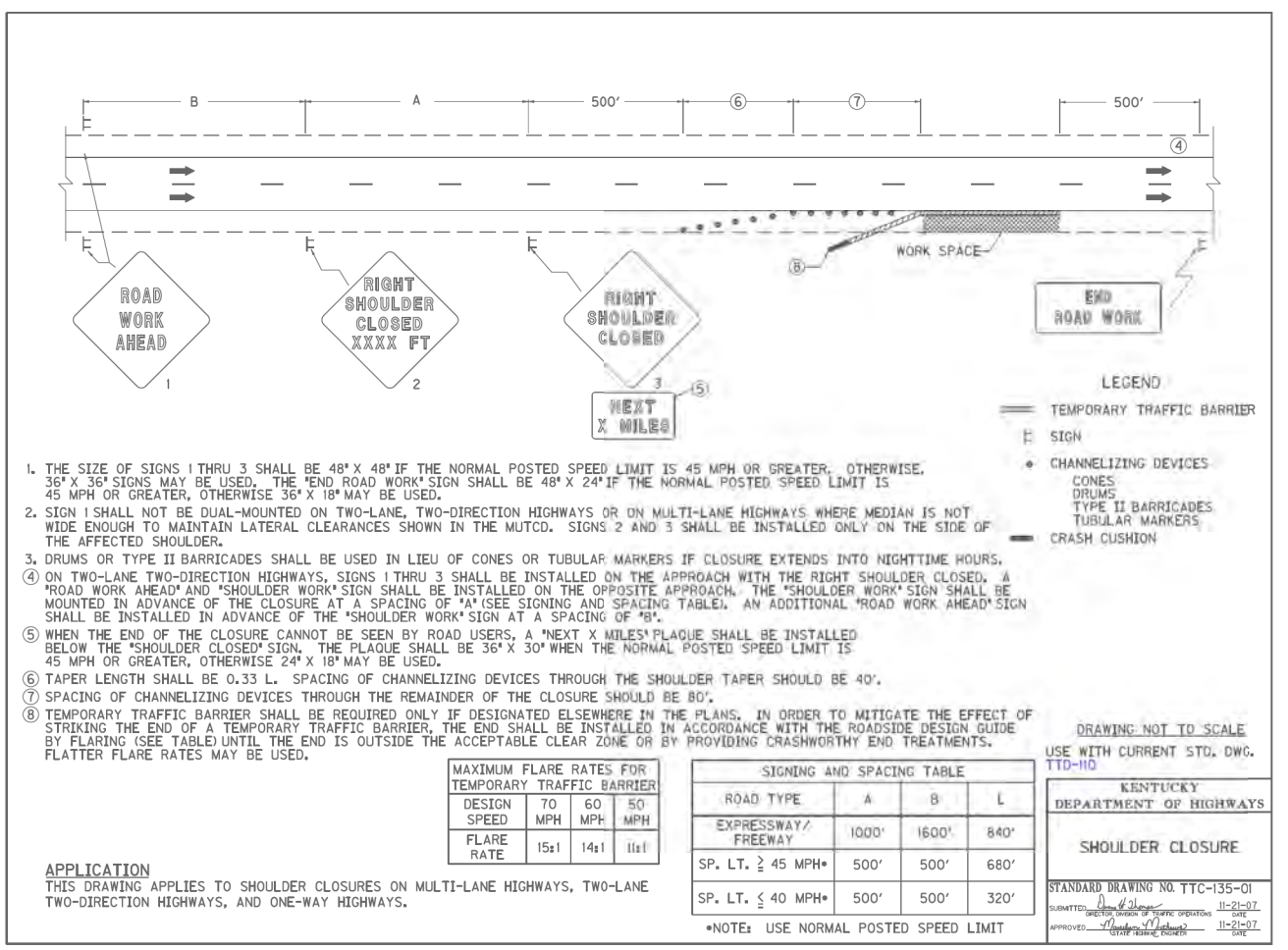
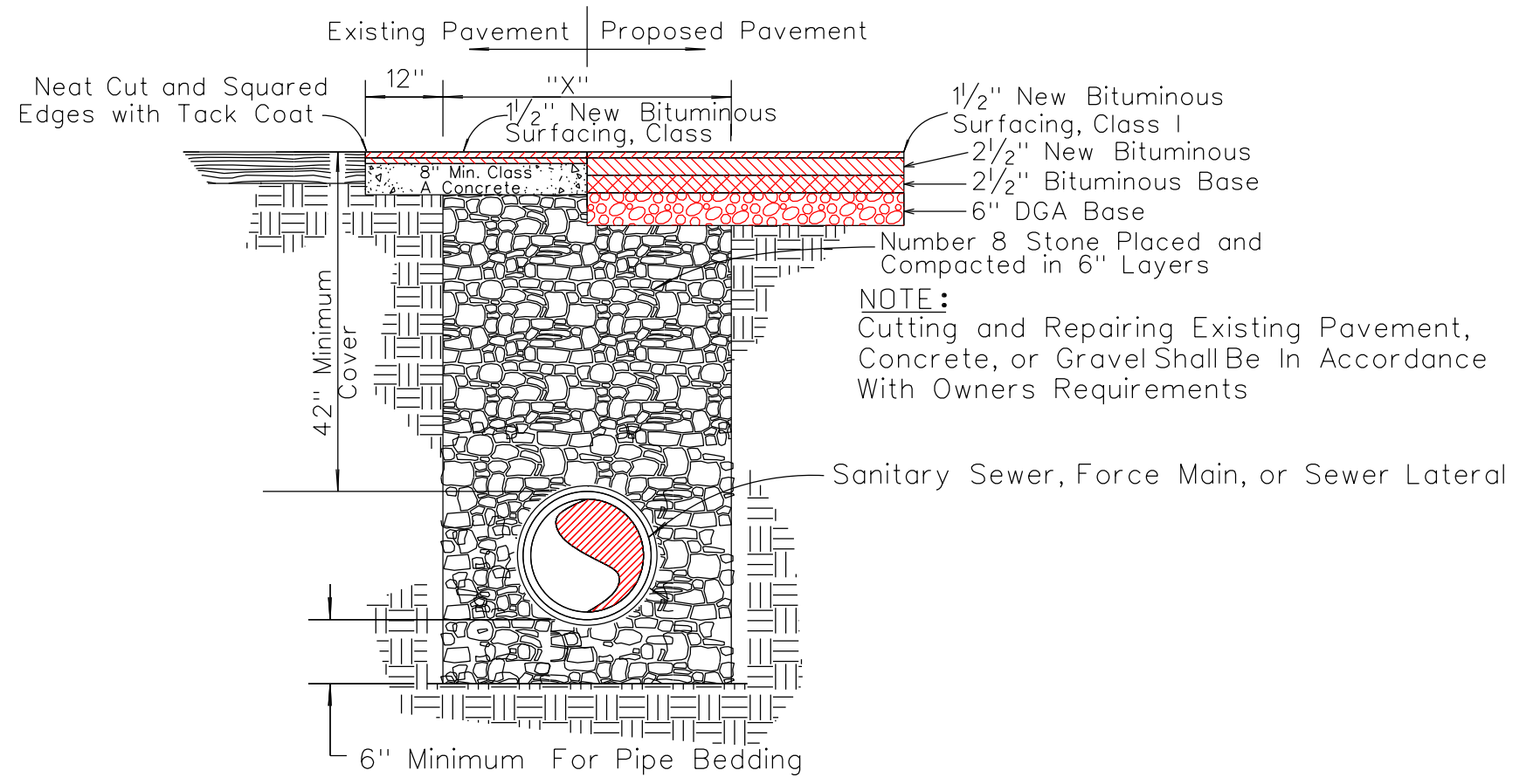
PHASE 1A MCKINNEY WATER PROJECT
 MCKINNEY WATER DISTRICT
 GENERAL NOTES
 DIVISION 1



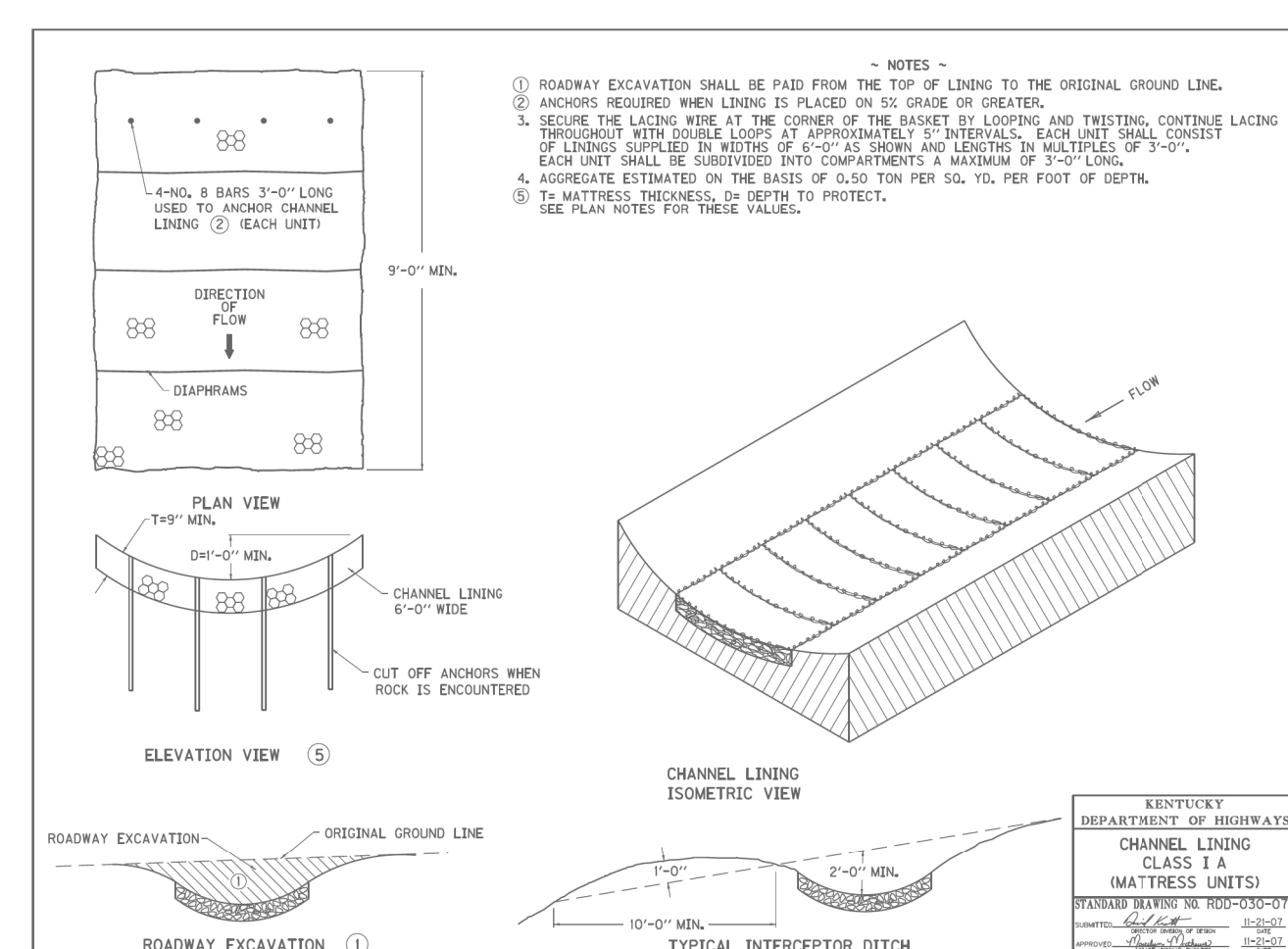
KTC DETAIL 1

KTC DETAIL 3

KTC DETAIL 5



KTC DETAIL 4



KTC DETAIL 6

PAVED OR CONCRETE AREAS

KTC DETAIL 2

CLIENT: MCKINNEY WATER DISTRICT
 2900 KY HWY 198
 MCKINNEY, KY 40434

P.O. BOX 204
 166 FOSTER LANE
 STANFORD, KY 40464
 PHONE (606) 365-8362
 FAX (606) 365-1097



REVISION(S)

SHEET: 7 OF 8

SOIL EROSION CONTROL SEQUENCE

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTROL EROSION FROM THIS SITE DURING ITS PHYSICAL ALTERATION. THIS PLAN SEEKS TO PROVIDE SOME DIRECTION IN THE MANNER IN WHICH THE OBJECTIVE TO CONTROL EROSION CAN BE ACCOMPLISHED. IT IS NOT THE INTENT OF AGE ENGINEERING TO LIMIT THE CONTRACTOR IN THE MANNER AND TECHNIQUES TO CONTROL EROSION. RECOMMENDED RESOURCE FOR CONTRACTORS WORK IS "STORMWATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES-DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES" PUBLISHED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY.

THE FOLLOWING IS A LIST, IN SEQUENCE, OF CONSTRUCTION ACTIVITIES TO CONTROL SOIL EROSION FOR THE PROJECT:

1) 50" OF NO.2 STONE SHALL BE INSTALLED AT THE ACCESS LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS FREE FROM MUD, DIRT, DEBRIS, AND ROCK. DUST SHALL BE KEPT TO A MINIMUM BY UTILIZING SPRINKLING, CALCIUM CHLORIDE, VEGETATIVE COVER, SPRAY ON ADHESIVES OR OTHER APPROVED METHODS.

2) INSTALL SILT FENCE, DIVERSION DITCHES, AND SILT TRAPS AS NEEDED ACCORDING TO THE "BEST MANAGEMENT PRACTICES".

3) PRELIMINARY GRADING OF THE SITE SHALL BEGIN AS AREAS OF THE SITE ARE BROUGHT TO DESIGN GRADES, EROSION CONTROL MEASURES SUCH AS DIVERSION DITCHES, SILT TRAPS, STRAW BALES, RIPRAP CHANNEL LINING, AND SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH "BEST MANAGEMENT PRACTICES".

4) CLEAR AND GRUB THE SITE AND DISPOSE OF ALL DEBRIS PROPERLY. IF AN AREA THAT HAS BEEN DISTURBED IS TO BE INACTIVE FOR MORE THAN 21 DAYS, THE CONTRACTOR SHALL SUPPLY STABILIZATION BY MEANS OF TEMPORARY SEEDING AND MULCHING, SODDING, COVERING OR OTHER EQUIVALENT EROSION CONTROL MEASURES AS SOON AS PRACTICAL. IN NO CASE SHALL AN AREA REMAIN UNTREATED FOR MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED. FOR TEMPORARY SEEDING THE CONTRACTOR SHALL UTILIZE A FAST GROWING SEED OF EITHER OATS, ANNUAL RYE GRASS OR WHEAT DEPENDING ON TIME OF YEAR.

5) STOCKPILED MATERIALS SHOULD BE PROPERLY STABILIZED WITH TEMPORARY SEEDING AND EROSION CONTROL FENCE.

6) MAINTAIN ALL FILTERS AND TRAPS DURING CONSTRUCTION TO PREVENT ANY BLOCKAGES FROM ACCUMULATED SEDIMENT. AFTER EVERY RAIN IN EXCESS OF HALF AN INCH, SILT CONTROL DEVICES ARE TO BE INSPECTED CLEANED AND REPAIRED IF NECESSARY. SILT FENCE MUST BE CLEANED IF SILT BUILDUP REACHES 1/3 OF THE SILT FENCE HEIGHT. SILT TRAPS SHALL BE CLEANED WHEN SILT DEPOSITS REACH 1/2 OF TRAP CAPACITY. ADDITIONAL SEEDING, SILT FENCE, AND/OR STRAW BALES MAY BE REQUIRED DURING CONSTRUCTION AS SPECIFIED BY THE ENGINEER.

7) ALL SURFACE INLETS AND CURB INLETS SHALL BE PROTECTED WITH INTERWOVEN STONE BAGS.

8) WHEN DISTURBED AREAS ARE AT FINAL GRADE AND ALL ACTIVITY IN THESE AREAS IS COMPLETE, PERMANENT VEGETATION SHALL BE PROVIDED AS DESCRIBED IN THE PLANS AND SPECIFICATIONS. THIS VEGETATION IS TO INCLUDE PERENNIAL GRASSES APPROVED BY THE DEVELOPER. SLOPES EXCEEDING 4:1 SHALL HAVE THE ADDITIONAL PROTECTION OF MULCHING OR SODDING TO PREVENT EROSION. SEEDING OF ALL PERMANENT VEGETATION SHALL FOLLOW GUIDELINES SET FORTH IN "KENTUCKY BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES" PUBLISHED BY THE DIVISION OF CONSERVATION AND DIVISION OF WATER, NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET.

9) UNLESS OTHERWISE NOTED, CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT AND REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS ONLY WHEN THERE IS A SUFFICIENT GROWTH OF GROUND COVERAGE TO PREVENT FURTHER EROSION.

PERMIT REQUIREMENTS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A GRADING PERMIT FROM THE LOCAL GOVERNMENT PRIOR TO ANY CONSTRUCTION ACTIVITY.

PRIOR TO COMMENCING WITH CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS INCLUDING SUBMISSION IN WRITING OF A NOTICE OF INTENT (NOI) TO DISTURB WITH THE KENTUCKY DIVISION OF WATER.

WHERE REFERRED TO IN THE PLANS AND SPECIFICATIONS AS CONTRACTOR/OWNER RESPONSIBILITY, IT IS THE CONTRACTOR'S OBLIGATION TO ACT ON THE OWNER'S BEHALF IN FULFILLING ALL REQUIREMENTS FOR COMPLIANCE WITH PERMIT AND EROSION CONTROL.

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SOIL AND EROSION CONTROL AND DUST CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD TO PREVENT EROSION OF SOIL AND ENTRY OF SOIL-BEARING WATER AND AIRBORNE DUST ON ADJACENT PROPERTIES AND INTO THE PUBLIC STORM WATER FACILITIES. SEE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) NOTES THIS SHEET FOR ADDITIONAL INFORMATION

2. EXCAVATION AND DISPOSAL OF EXISTING SOIL OR UNSUITABLE MATERIAL SHALL BE DONE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS, CODES, AND ENVIRONMENTAL REGULATIONS.

3. MAINTAIN SITE SECURITY AND SAFETY STANDARDS THROUGHOUT CONSTRUCTION.

4. ALL DISTURBED AREAS OUTSIDE OF HARD CAP AREAS SHALL BE SEEDED AND STRAWED AT A RATE OF 3LBS. PER 1000 SQ. FT. WITH A MIXTURE OF 50% FESCUE, 25% KY BLUEGRASS, AND 25% WHEAT (OR APPROVED EQUAL), UNLESS OTHERWISE INDICATED ON PLAN. AMEND SOIL TO PROMOTE HEALTHY GRASS GROWTH. TEST SOIL TO DETERMINE PROPER SOIL AMENDMENTS. SOIL TEST TO BE PERFORMED BY PROPERTY TESTING AGENCY. ALL EROSION CONTROL AND SEDIMENT PREVENTION MEASURES SHALL BE IN ACCORDANCE WITH THE PLANS AND ANY LOCAL REGULATIONS AND ORDINANCES.

UTILITY NOTES:

1. BEFORE PROCEEDING WITH THE WORK, THE CONTRACTOR SHALL CONFER WITH ALL PUBLIC OR PRIVATE COMPANIES, AGENCIES, OR DEPARTMENTS THAT OWN AND OPERATE UTILITIES IN THE VICINITY OF THE CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR:

- A. CONTACTING THE INDIVIDUAL UTILITY OWNERS TEN DAYS PRIOR TO CONSTRUCTION, ADVISING THEM OF THE WORK TO TAKE PLACE.
- B. SOLICITING THEIR AID IN LOCATING AND PROTECTING ANY UTILITY WHICH MAY INTERFERE WITH CONSTRUCTION.
- C. EXCAVATING AND VERIFYING THE HORIZONTAL AND VERTICAL LOCATION OF EACH UTILITY.
- D. ANY DAMAGE TO ANY EXISTING UTILITY.

2. EXCAVATE WITH EXTREME CAUTION TO AVOID DISTURBING UNDERGROUND UTILITIES THAT ARE TO REMAIN IN SERVICE. REPORT ANY CONFLICTS TO THE ENGINEER IMMEDIATELY.

GENERAL NOTES: (CONTINUED)

~~5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIREMENTS OF THE BUY AMERICAN IRON AND STEEL AND THE BUILD AMERICAN ACTS. THE CONTRACT WILL REQUIRE CERTIFICATION OF ALL SIGNIFICANT IRON OR STEEL PRODUCTS USED IN THESE CONTRACTS. THIS WILL INCLUDE CERTIFICATIONS BY THE MANUFACTURERS, SUPPLIERS AND CONTRACTORS FOR THESE PROJECTS. IN ADDITION ALL MATERIALS USE IN THE CONSTRUCTION OF THIS PROJECT WILL MEET THE BUILD AMERICAN ACT REQUIREMENTS.~~

6. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPLYING THE NECESSARY EQUIPMENT TO PROVIDE FOR THE REMOVAL OF ALL TRENCH EXCAVATION FROM UNDER ASPHALT AND CONCRETE PAVEMENTS. NO EXCAVATION MATERIALS FROM UNDER PAVEMENT WILL BE ALLOWED TO BE PLACED ON THE GROUND, IT SHALL BE LOADED INTO TRUCK FOR REMOVAL AT THE TIME OF EXCAVATION. EXCAVATION WILL CEASE UNTIL THE PROPER REMOVAL EQUIPMENT IS AVAILABLE TO THE PROJECT SIGHT.

7. FOR ALL WATER SERVICE LINES THE CONTRACTOR WILL BE REQUIRED TO MEET DIVISION OF WATER, STATE PLUMING CODE, AND MCKINNEY WATER DISTRICT REQUIREMENTS.

8. ASPHALT AND CONCRETE PAVEMENTS MUST BE STONE BACK FILLED FOR THE FULL DEPTH OF TRENCH. GRAVEL DRIVEWAYS MAY BE BACK FILLED WITH EARTH EXCEPT FOR TOP 12-INCHES OF STONE AND PIPE BEDDING.

9. ASPHALT AND CONCRETE PAVEMENTS NOT SAW CUT WILL NOT BE ELIGIBLE FOR PAYMENT FOR REPAIR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO PAVEMENTS NOT SCHEDULED FOR REMOVAL (SEE CONSTRUCTION NOTES ON PLANS FOR QUANTITIES).

UTILITY AND STREET OWNER INFORMATION

1. CITY OF HUSTONVILLE WATER
CITY HALL LIBERTY STREET
HUSTONVILLE, KY
606-346-2501

2. ATMOS GAS COMPANY
WHIRLAWAY DRIVE
DANVILLE, KY
859-236-2300
EARL TAYLOR

3. BELL SOUTH TELEPHONE
DAVID DRIVE
DANVILLE, KY
859-936
JUDY STANLEY

4. KENTUCKY UTILITIES
BOARDWAY
DANVILLE, KY
859-936-3240
GUS FAITHE

5. LINCOLN COUNTY ROAD DEPT
S US 27
STANFORD, KY
859-749-0428
JEREMY VANHOOK

6. TIME WARNER CABLE
SKYLINE DRIVE
STANFORD, KY
606-365-8505

7. INTER COUNTY RECC
1009 HUSTONVILLE RD
DANVILLE, KY
(859) 236-4561

8. CITY OF DANVILLE
P O BOX 670
445 W MAIN STREET
DANVILLE, KY
(859) 238-1200

UNIT PRICE DESCRIPTIONS

1) Contractor to furnish all signs required by DOT (see details).

2) Telemetry: Units - Lump Sum; To include all electronics, equipment, cabinets, conduit, wiring, control systems, to allow communications and operations. The tank telemetry will be coordinated with the City of Danville Pumping station install.

3) PVC Water Main: Units - Per Linear Feet; To include excavation, pipe, fittings, back fill rock free earth or (gravel for bedding if required and back fill as required under pavement).

4) Roadway, Driveway Bores: Units - Per Linear Feet by size; To include excavations and back filling, boring either conventional or directional, encasement pipe, carrier pipe spacers, seals, and other items required for completion. (excluding carrier pipe if required)

5) Master Meter ; To include factory tees, fittings, excavations and back filling, gravel and other items required for completion. Piping meter setters, valves, meter vault and meter lid to meet McKinney and the City of Danville requirements.

6) Street/Driveway Bore: Units - Units Linear Feet; No encasement to include excavations and back filling, boring either conventional or directional, and other items required for completion.

7) Customer Service taps: Units Each; To include factory tees, fittings, excavations and back filling, gravel and other items required for completion. Piping meter setters, meter pit and meter lid to meet McKinney requirements.

8) Asphalt Repair and Stone Back fill: Units - Units Square Feet; To include saw cutting of asphalt pavement, the stone back fill above the pipe bedding and around manholes, asphalt and or concrete to match existing. To be paid by the square foot and measured by actual constructed but not to exceed the width of the ditch equal to the depth of the trench as quantity shown on plans. Repair will not be eligible for payment if not saw cut before excavation.

9) Concrete Repair and Stone Back fill: Units - Square Feet; To include saw cutting of concrete pavement the stone back fill above the pipe bedding, asphalt and or concrete to match existing. To be paid by the square foot and measured by actual constructed but not to exceed the width of the ditch equal to the depth of the trench. Repair will not be eligible for payment if not saw cut before excavation.

10) Fence Repair: Units - Units Linear Feet; To include the repair of the fence removed or damaged during construction. Fence damaged beyond repair will be replaced based on the unit price by the contractor. Fence length will not exceed that which is on the permanent easement or street/road right of way. Fence damaged outside this area will not be considered for payment.

11) Pressure reducers: Unit each; To include the pressure reducer equipment, all piping, valves, vault/box, taps, tees, setters, meters, and other fittings that may be required to make the unit operational. In units where only the pressure reducer is added the entire meter installation will be replaced as above.

12) Water meter Reconnection: Unit Each; To include taps, curb stop, piping, excavations, back filling, fittings, and any other parts to reconnect a water meter customer to the new water main.

13) Cut and cap water main: Unit Each; To include excavation, back filling, fittings, pipe, concrete, blocking and other supplies to terminate a water main.

14) Culvert Removal and Replacement: Units - Linear Feet; To include the removal and reinstalled existing culvert pipe. Pipe damaged during removal will be replaced at contractor expense.

15) Culvert Replacement new: Units - Linear Feet; To include installing new culvert pipe too old or deteriorated to be reinstalled, or new pipe placed where needed.

16) Clear and Grub: Units -Lump Sum; To include vegetation removal of all growth stumps and roots to be disposed in approved qualified location. In areas indicated on the plans vegetation will be removed and stockpiled on site as directed by the engineer.

17) Resilient Wedge Gate Valve: Units - Each; To include mechanical joint wedge valve with all fittings required.

18) Seed and Straw: Units - Acre; to include finished cleanup, rock removal, debris removal, top soil preparation, seeding, and straw as required. Seed selection will be to match the grass existing in the yards/fields disturbed. Payment based on easement and right of way disturbed. Areas out of easment will be the responsibility of the contractor.

19) Rough dressing trench/Cleanup. Payment will require removal of excess materials, debris, soil, rock and vegetation. This includes remove of excess excavation materials and placement of top soil salvaged during excavation and mounded on trench to allow settlement. Payment will be withheld on any section of mainline pipe not complete to the satisfaction of the Engineer.

19) Utility Service Connection: Unit Each; to include all fitting and pipe necessary to connect a utility service from an abandoned line to a new utility line, or to relocate a utility service removed by the sewer line construction.

20) Gravel Driveway (w/Geo-fabric): Units - Per Ton; To include excavation, ditching, removal and stockpile top soil, gravel, and hauled fill as required. Geo-fabric separate pay unit,

21) Reset Light/Mail Box/Road Sign: Unit Each; To include removal and resetting with existing material if possible, to include replacement of mailbox, post, concrete, brick, flower pots, sign and any other devices that may be part of the light/mailbox/sign assembly. If damaged the contractor will be responsible for repair of replacement as part of this unit price.

NOTE: ALL EQUIPMENT AND SUPPLY MUST COMPLY WITH THE BUY AMERICAN BUILD AMERICAN ACTS.

**BEFORE YOU DIG
CALL 811 OR 1-800-752-6007**



DATE: 04/05/2019
SCALE: 1" = 50' H 1" = 5' V
DRAWN BY: MS
APPROVED BY: GOOCH
FILENAME: NOTES

PHASE 1A MCKINNEY WATER PROJECT
MCKINNEY WATER DISTRICT
GENERAL NOTES
CONTRACT ONE DIVISION ONE

CLIENT:
MCKINNEY WATER DISTRICT
2900 KY HWY 198
MCKINNEY, KY 40434

P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40464
PHONE (606) 365-8362
FAX (606) 365-1097



REVISION(S)

- _____
- _____
- _____
- _____
- _____
- _____
- _____

McKINNEY WATER DISTRICT PHASE 1A - CONTRACT 1

WATER MAIN CONNECTION (DIVISION 2)

MASTER METER TO KY HWY 1194

LINCOLN COUNTY, KENTUCKY

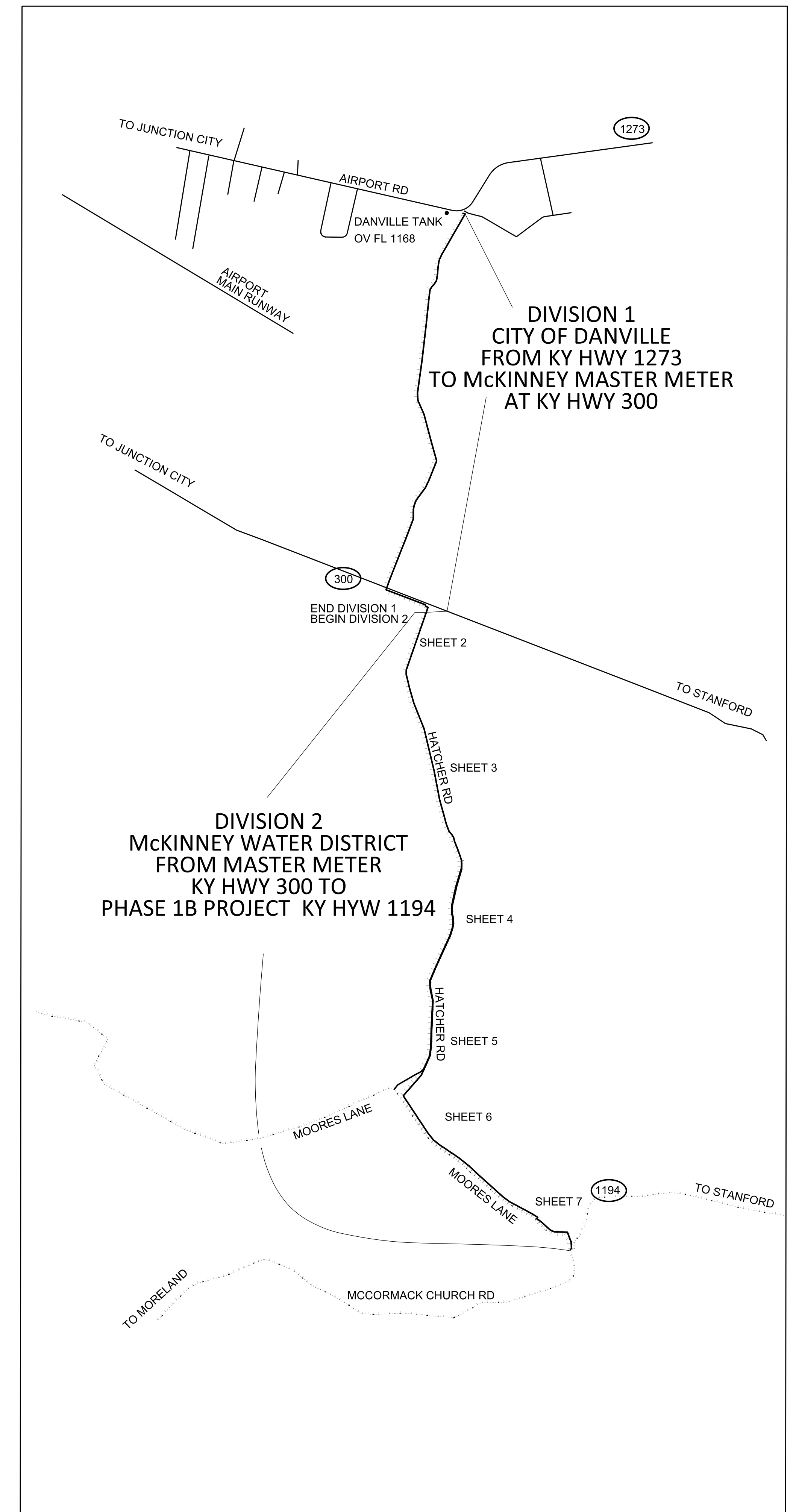
SHEET LEGEND

| | |
|-------------------------|-------|
| COVER SHEET | 1 |
| PLAN AND PROFILE SHEETS | 2-8 |
| METER VAULT | 9 |
| DETAILS | 10-11 |
| GENERAL NOTES | 12-13 |

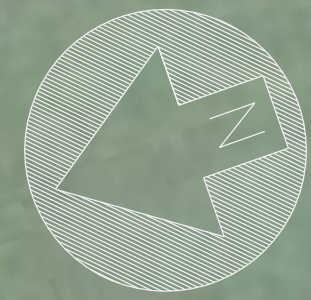
ENGINEER



P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40484
PHONE (606) 365-8362
FAX (606) 365-1097



VICINITY MAP



STA 82+52.00 TO STA 223+23.02
 CONSTRUCT 4,540 FT OF 8-INCH
 CLASS 200 DR 21 PVC WATER PIPE
 CONSTRUCT 9,523 FT OF 8-INCH
 CLASS 250 DR 17 PVC WATER PIPE

STA 82+60 - BEGIN CONSTRUCTION
 AT 8" VALVE CONSTRUCTED AS PART OF
 CONTRACT 1 DIVISION 1

STA 82+67.25 - INSTALL WATER
 MASTER METER - (SEE DETAIL)

INSTALL 50' OF 4-INCH ELECTRICAL
 CONDUIT FROM PROPOSED POLE TO
 MASTER METER PIT
 INTERCOUNTY ELECTIC REQUIREMENTS

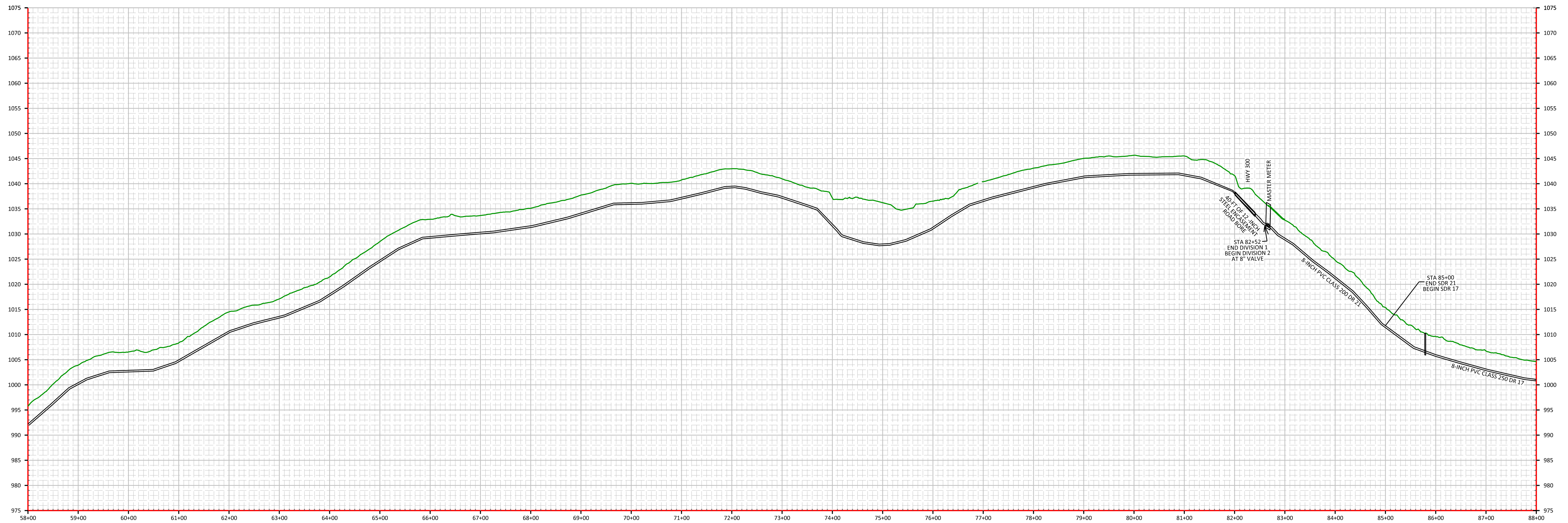
STA 85+80 - INSTALL AIR RELEASE
 (SEE AUTOMATIC DETAIL)

STA 85+80 - INSTALL AIR RELEASE
 (SEE MANUAL DETAIL)

STA 82+67 TO STA 83+00 - INSTALL
 STACKABLE CONCRETE BLOCK RETAINING
 WALL 144 SQ FT (SEE DETAIL SHEET 13)

STA 82+67 TO STA 83+00 - INSTALL
 GRAVEL AREA AROUND METER (20 T)

BLUE HERON
 KNOB LLC
 DB 401 PG 702



DATE: 01/04/22
 SCALE: 1" = 100'
 DRAWN BY: M.S.
 APPROVED BY: GOOCH
 FILENAME: 18298PH1A

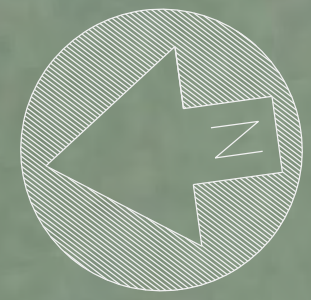
PHASE 1A WATER PROJECT (DIVISION 2)
DANVILLE TO MCKINNEY CONNECTION
8" WATER MAIN
STANFORD, LINCOLN COUNTY, KENTUCKY

CLIENT:
 MCKINNEY WATER DISTRICT
 2900 MIDDLEBURG RD
 MCKINNEY, KY 40448

P.O. BOX 204
 165 FOSTER LANE
 STANFORD, KY 40484
 PHONE (606) 365-8362
 FAX (606) 365-1097

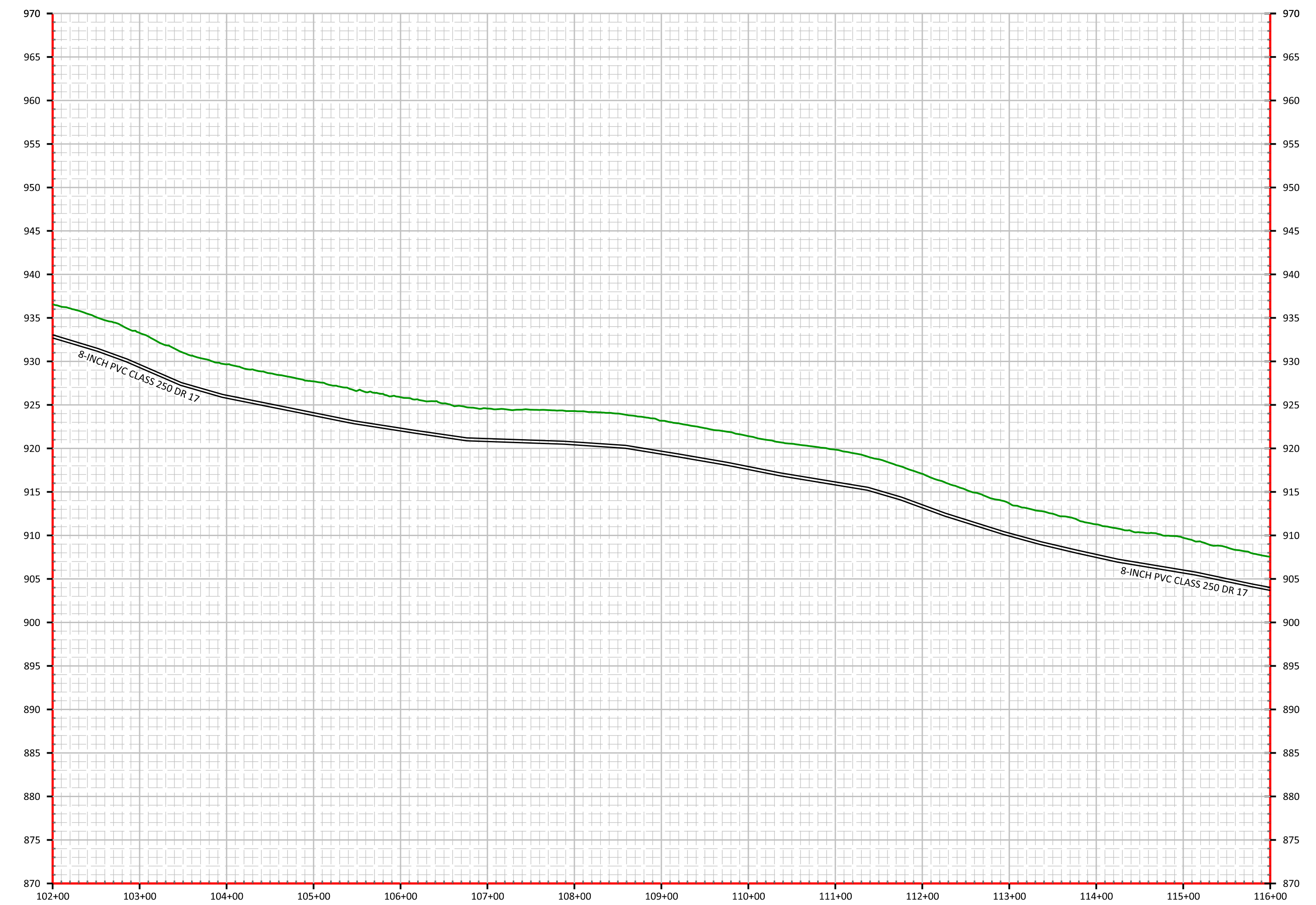
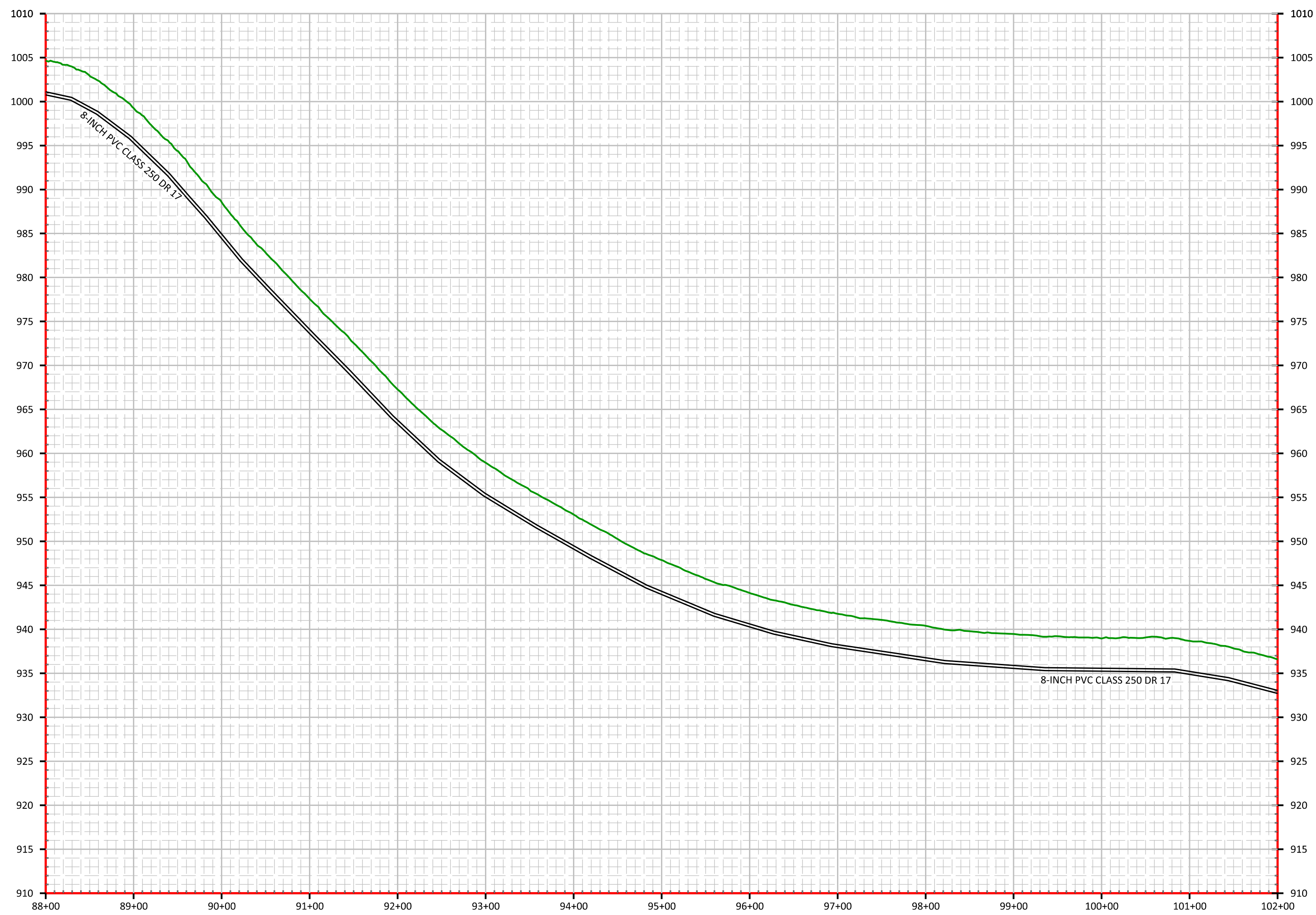


| REVISION(S) |
|-------------|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |



STA STA 95+00 TO STA 116+00- CUT AND REPAIR ASPHALT ROADWAY WITH FULL DEPTH STONE BACKFILL AS NEEDED ALONG THE EDGE OF THE ROAD (2100 SQ FT)

STA STA 95+00 TO STA 116+00- REMOVE AND REPLACE FARM FENCE AS NEEDED (2100 FT)



DATE: 01/04/22
 SCALE: 1" = 100'
 DRAWN BY: M.S.
 APPROVED BY: GOOCH
 FILENAME: 18298PH1A

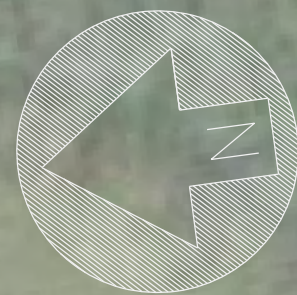
PHASE 1A WATER PROJECT (DIVISION 2)
DANVILLE TO MCKINNEY CONNECTION
8" WATER MAIN
STANFORD, LINCOLN COUNTY, KENTUCKY

CLIENT: MCKINNEY WATER DISTRICT
 2900 MIDDLEBURG RD
 MCKINNEY, KY 40448

P.O. BOX 204
 165 FOSTER LANE
 STANFORD, KY 40484
 PHONE (606) 365-8362
 FAX (606) 365-1097



| REVISION(S) |
|-------------|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |



STA 120+97 - INSTALL AIR RELEASE (SEE MANUAL DETAIL)

STA 125+10 - INSTALL 8-INCH GATE VALVE

STA 126+60 - INSTALL CREEK CROSSING TYPE II DIRECTIONAL BORE 100 FEET 10-INCH PE PIPE (SDR 9) INSTALL TRANSITION 8-INCH PVC TO 10-INCH PE

STA 127+60 - INSTALL TRANSITION 8-INCH PVC TO 10 INCH PE

STA 128+50 - INSTALL 8-INCH GATE VALVE AND TEST METER (SEE TYPICAL DETAIL)

STA 131+72 - RECONNECT METER PRESSURE REDUCER (SEE DETAIL)

STA 131+72 - CUT AND REPAIR ASPHALT ROAD (60 SQ. FT)

STA 140+45 - RECONNECT METER PRESSURE REDUCER (SEE DETAIL)

STA 140+45 - INSTALL AIR RELEASE (SEE MANUAL DETAIL)

STA STA 116+00 TO STA 120+00- CUT AND REPAIR ASPHALT ROADWAY WITH FULL DEPTH STONE BACKFILL AS NEEDED ALONG THE EDGE OF THE ROAD (400 SQ. FT)

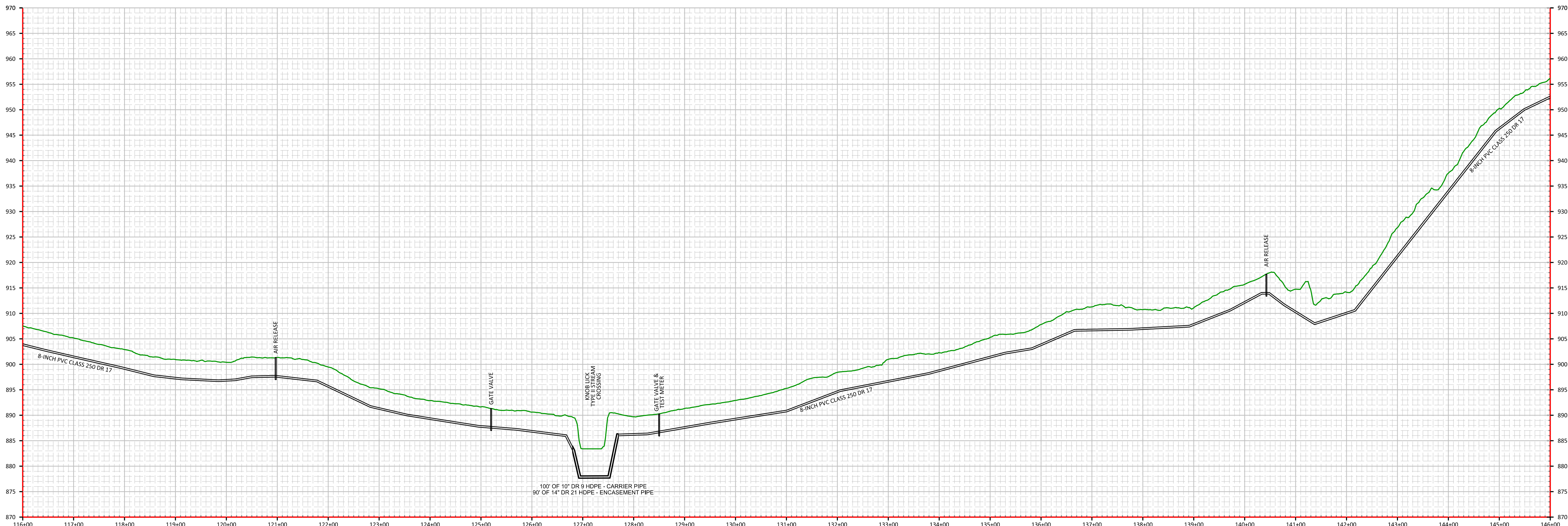
STA 140+00 - REPAIR EXISTING GRAVEL DRIVE (21)
STA STA 116+00 TO STA 120+00- REMOVE AND REPLACE FARM FENCE AS NEEDED (400 FT)

TYPICAL METER BOX RECONNECTION SEE DETAIL

EXISTING 3" WATER MAIN TO BE ABANDONED

AIR RELEASE

TYPICAL METER BOX RECONNECTION SEE DETAIL



DATE: 01/04/22
SCALE: 1" = 100'
DRAWN BY: M.S.
APPROVED BY: GOOCH
FILENAME: 18298PH1A

WATER PROJECT (DIVISION 2)
DANVILLE TO MCKINNEY CONNECTION
8" WATER MAIN
STANFORD, LINCOLN COUNTY, KENTUCKY

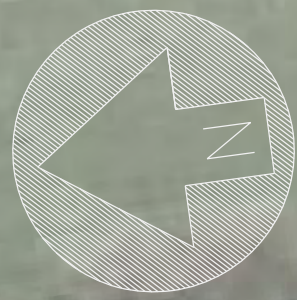
CLIENT:
MCKINNEY WATER DISTRICT
2900 MIDDLEBURG RD
MCKINNEY, KY 40448

P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40484
PHONE (606) 365-8362
FAX (606) 365-1097

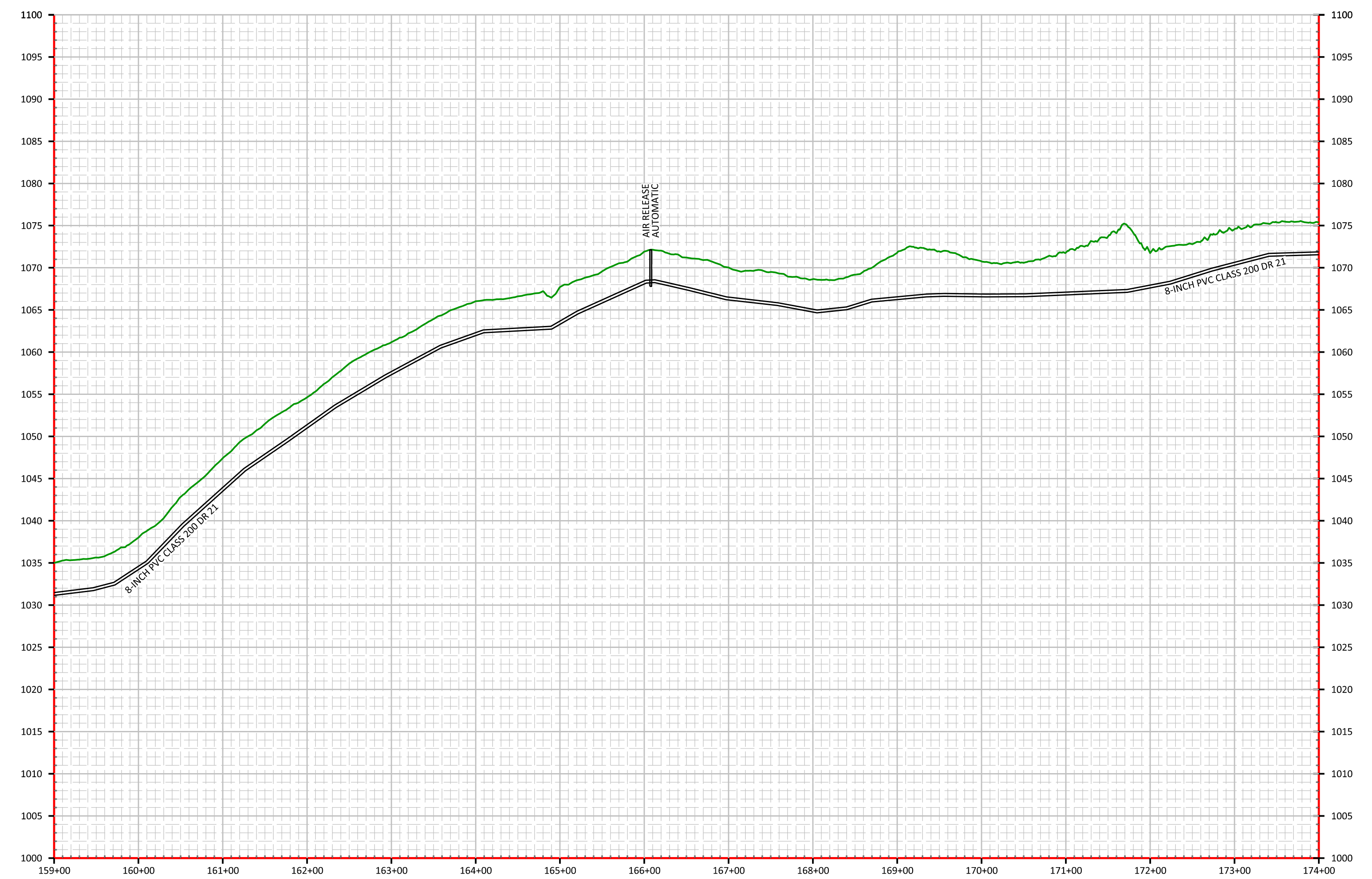
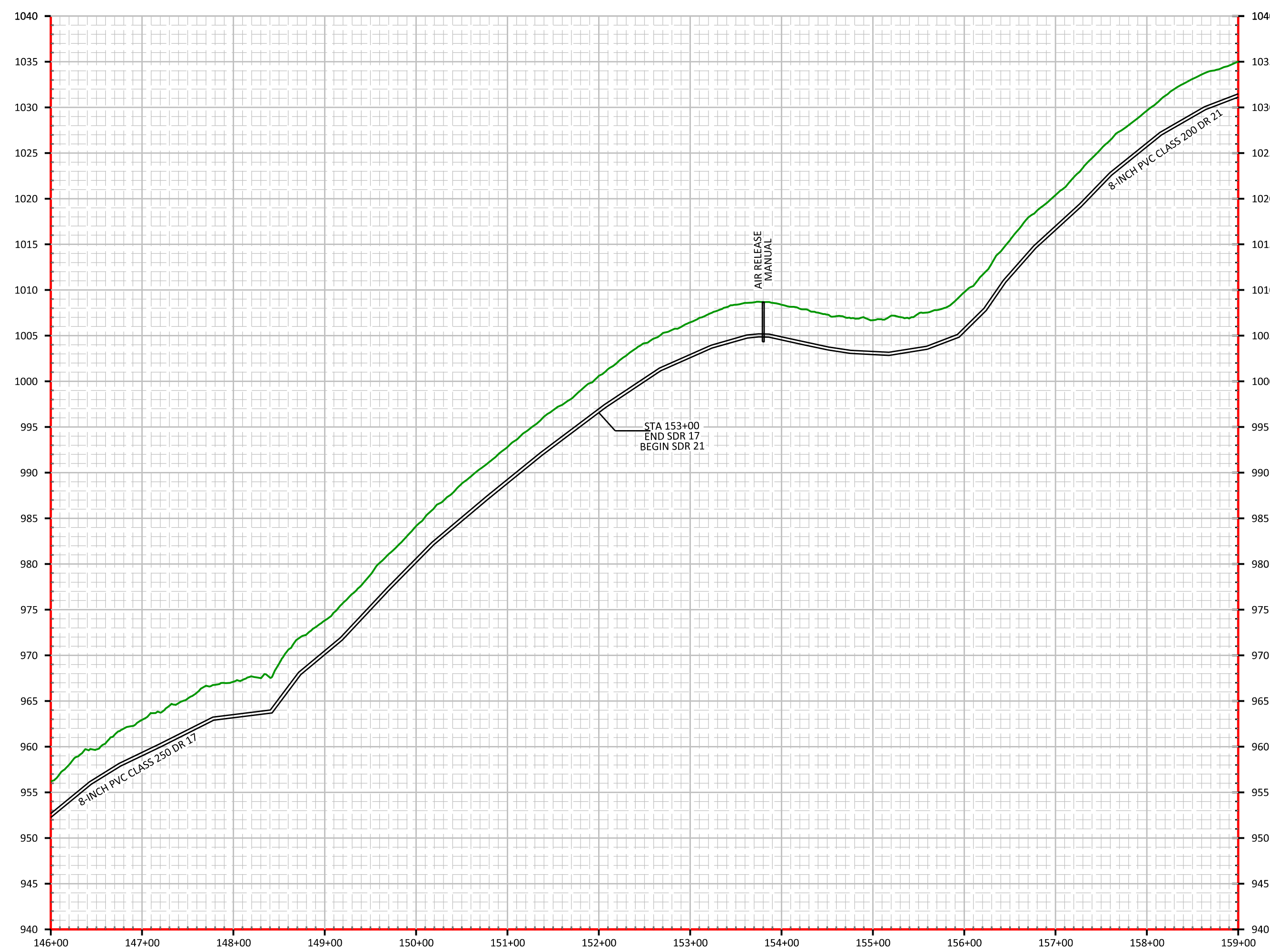


REVISION(S)

| |
|--|
| |
| |
| |
| |
| |
| |



- STA 153+40 - RECONNECT METER PRESSURE REDUCER (SEE DETAIL)
- STA 153+80 - INSTALL AIR RELEASE (SEE MANUAL DETAIL)
- STA 163+50 - RECONNECT METER (SEE DETAIL)
- STA 166+10 - INSTALL AIR RELEASE (SEE AUTOMATIC DETAIL)
- STA 166+25 - RECONNECT METER (SEE DETAIL)
- STA 173+45 - RECONNECT METER (SEE DETAIL)
- STA 153+05 - REPAIR EXISTING GRAVEL DRIVE (2T)
- STA 166+25 - CUT AND REPAIR ASPHALT ROAD (60 SQ FT)
- STA 173+45 - CUT AND REPAIR ASPHALT ROAD (60 SQ FT)



DATE: 01/04/22
 SCALE: 1" = 100'
 DRAWN BY: M.S.
 APPROVED BY: GOOCH
 FILENAME: 18298PH1A

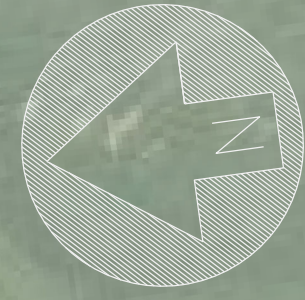
PHASE 1A WATER PROJECT (DIVISION 2)
DANVILLE TO MCKINNEY CONNECTION
8" WATER MAIN
STANFORD, LINCOLN COUNTY, KENTUCKY

CLIENT:
 MCKINNEY WATER DISTRICT
 2900 MIDDLEBURG RD
 MCKINNEY, KY 40448

P.O. BOX 204
 165 FOSTER LANE
 STANFORD, KY 40484
 PHONE (606) 365-8362
 FAX (606) 365-1097



| REVISION(S) |
|-------------|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |



STA 174+00 TO STA 175+10
REPAIR ASPHALT
475 SQ FT

STA 175+50 - INSTALL AIR RELEASE
(SEE AUTOMATIC DETAIL)

STA 174+60
REPAIR ASPHALT 60 SQ FT

STA 177+60
REPAIR ASPHALT 60 SQ FT

STA 177+60
REPAIR ASPHALT 60 SQ FT

STA 174+50 - RECONNECT METER
40' 1" PIPE (SEE DETAIL)

STA 174+50
REPAIR ASPHALT 60 SQ FT

STA 174+55 - RECONNECT METER
(SEE DETAIL)

STA 176+50 - RECONNECT METER
40' 1" PIPE (SEE DETAIL)

STA 176+50
REPAIR ASPHALT 60 SQ FT

STA 177+95- INSTALL 8-INCH GATE
VALVE (SEE DETAIL)

STA 178+07 RT- INSTALL
50 FT OF 4-INCH DR 21 PCV

STA 178+07 - INSTALL
8X8X4 TEE

STA 178+07 RT- INSTALL
4X4-INCH WET TAP
WITH SADDLE AND VALVE

4000 FT RT -MOORE'S LANE INSTALL
PRESSURE REDUCER VALVE
WITH VAULT

CUT IN 4-INCH GATE VALVE
20 FT OF 2" PVC PIPE
2-2" WET TAPS (SEE SHEET 8)

STA 179+95 - INSTALL AIR RELEASE
(SEE MANUAL DETAIL)

STA 180+75 - RECONNECT METER
40' 1" PIPE (SEE DETAIL)

STA 179+95
REPAIR ASPHALT 60 SQ FT

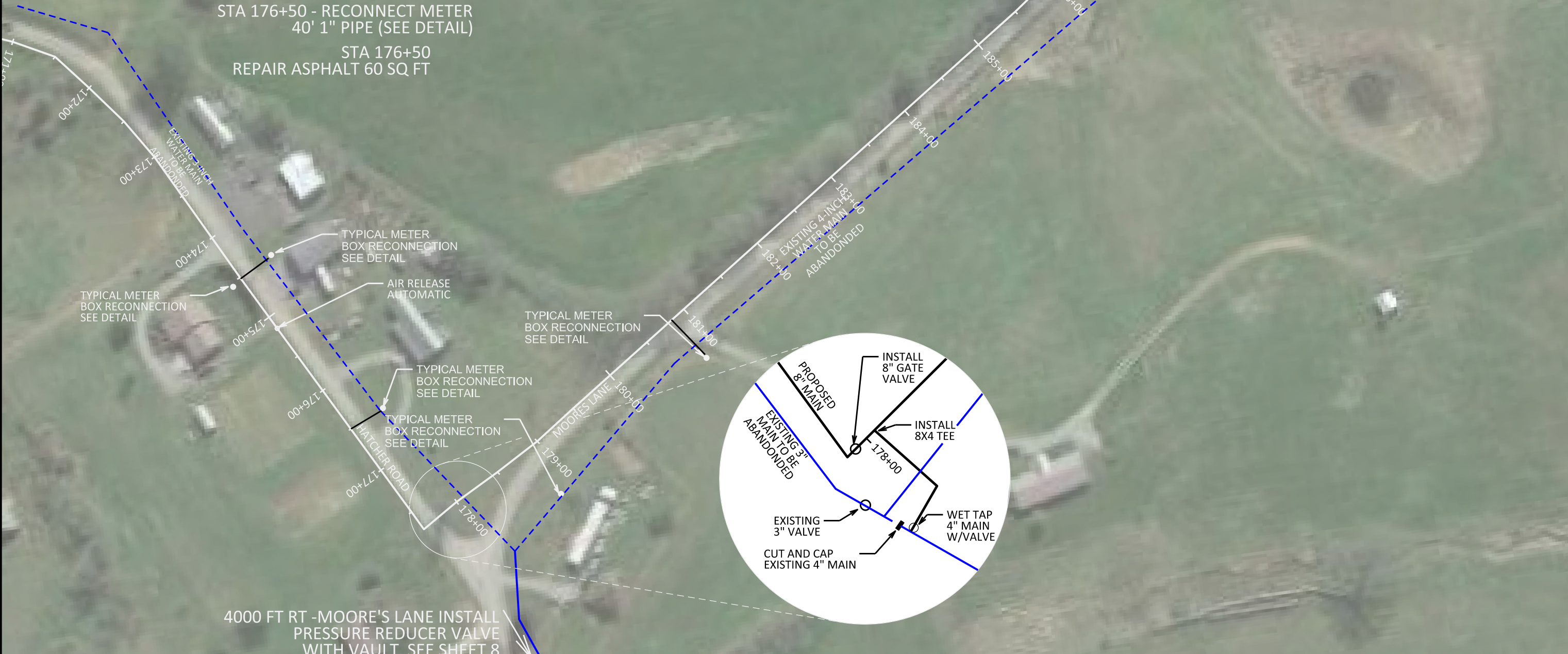
STA 180+60
REPAIR ASPHALT 60 SQ FT

4000 FT RT -MOORE'S LANE INSTALL
PRESSURE REDUCER VALVE
WITH VAULT

CUT IN 4-INCH GATE VALVE
20 FT OF 2" PVC PIPE
2-2" WET TAPS (SEE SHEET 8)

STA 179+95
REPAIR ASPHALT 60 SQ FT

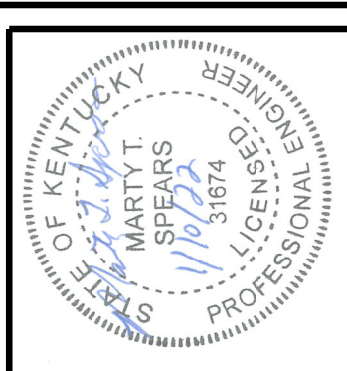
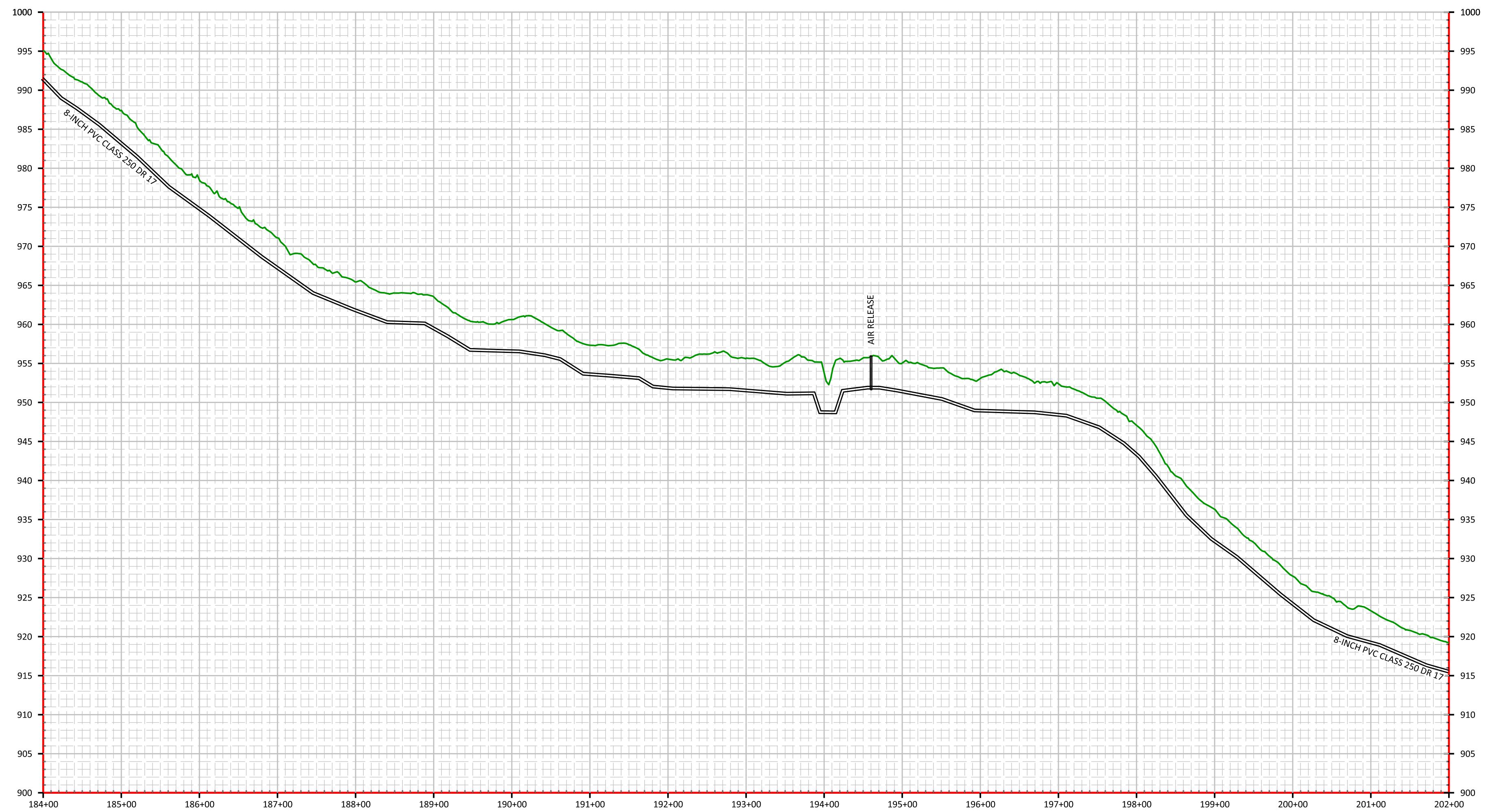
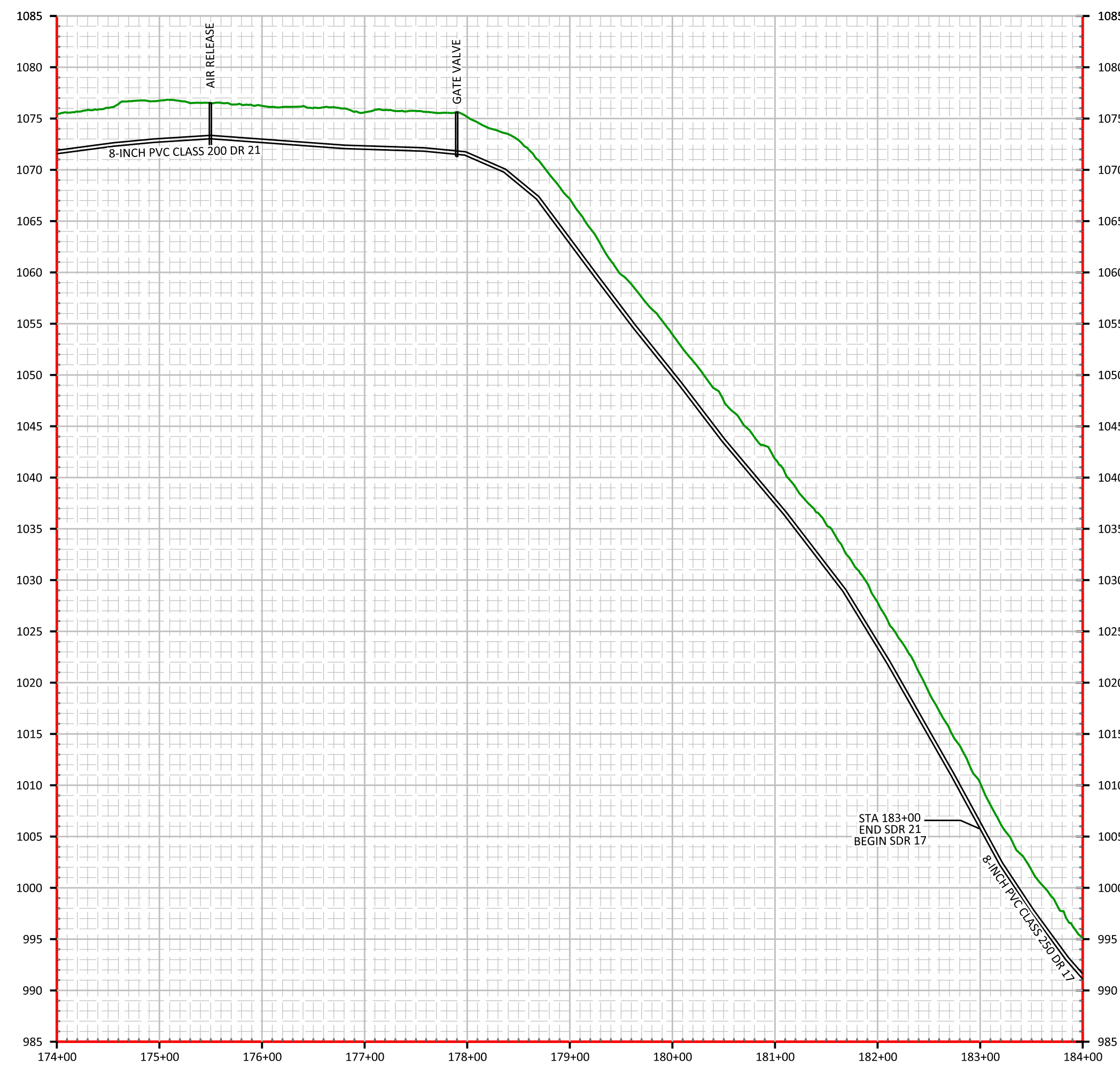
STA 180+60
REPAIR ASPHALT 60 SQ FT



STA 192+92 METER
RECONNECTION

STA 192+92
REPAIR ASPHALT 60 SQ FT

STA 194+60 - INSTALL AIR RELEASE
(SEE MANUAL DETAIL)



DATE: 01/04/22
SCALE: 1" = 100'
DRAWN BY: M.S.
APPROVED BY: GOOCH
FILENAME: 18298PH1A

PHASE 1A WATER PROJECT (DIVISION 2)
DANVILLE TO MCKINNEY CONNECTION
8" WATER MAIN
STANFORD, LINCOLN COUNTY, KENTUCKY

CLIENT:
MCKINNEY WATER DISTRICT
2900 MIDDLEBURG RD
MCKINNEY, KY 40448

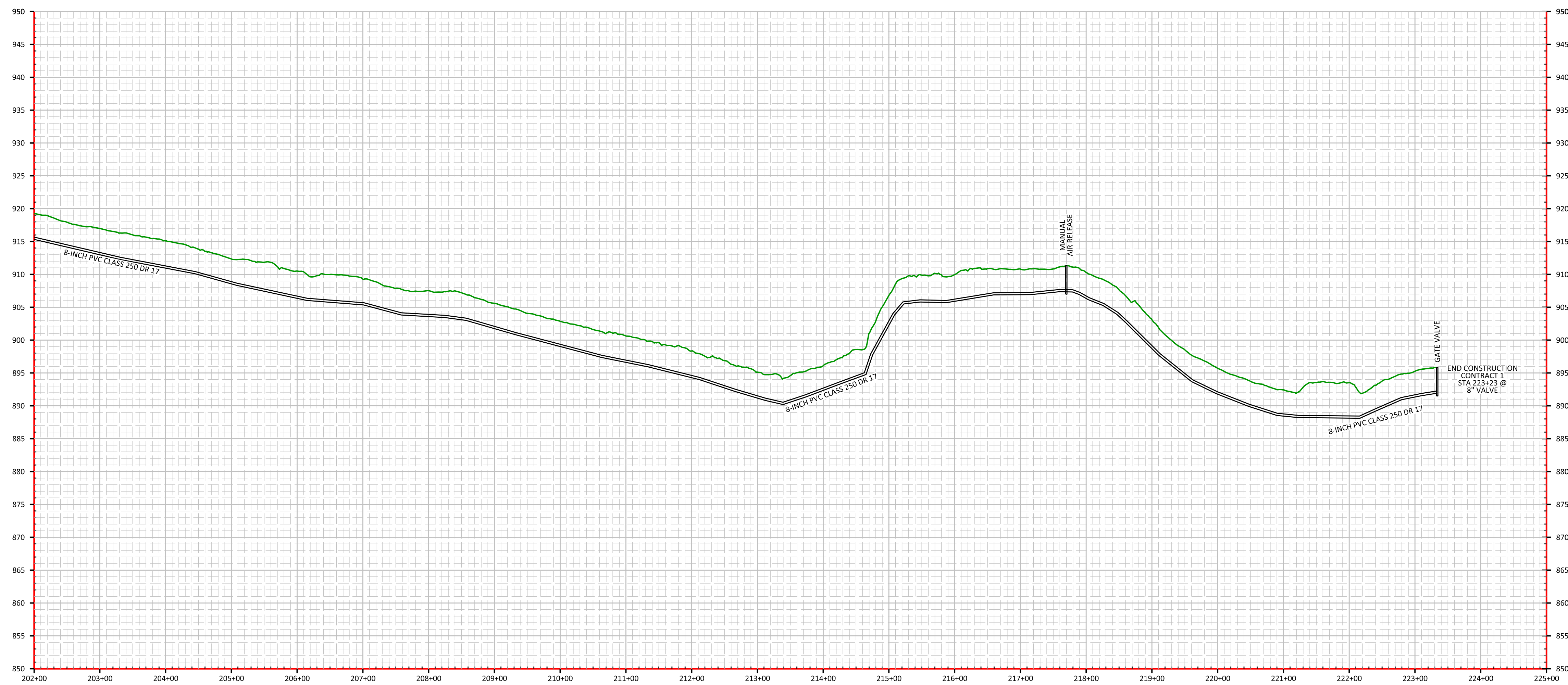
P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40464
PHONE (606) 365-8362
FAX (606) 365-1097



| REVISION(S) |
|-------------|
| |
| |
| |
| |
| |
| |



- STA 211+60 - RECONNECT METER PRESSURE REDUCER (SEE DETAIL)
- STA 212+12 TO STA 212+25 - REPAIR ASPHALT SURFACE 50 SQ FT
- STA 214+01 - RECONNECT METER PRESSURE REDUCER (SEE DETAIL)
- STA 217+70 - INSTALL AIR RELEASE (SEE MANUAL DETAIL)
- STA 219+98 - RECONNECT METER PRESSURE REDUCER (SEE DETAIL)
- STA 223+23 INSTALL 8" VALVE (SEE DETAIL)



DATE: 01/04/22
 SCALE: 1" = 100'
 DRAWN BY: M.S.
 APPROVED BY: GOOCH
 FILENAME: 18258PH1A

PHASE 1A WATER PROJECT (DIVISION 2)
DANVILLE TO MCKINNEY CONNECTION
8" WATER MAIN
STANFORD, LINCOLN COUNTY, KENTUCKY

CLIENT:
 MCKINNEY WATER DISTRICT
 2900 MIDDLEBURG RD
 MCKINNEY, KY 40448

P.O. BOX 204
 165 FOSTER LANE
 STANFORD, KY 40484
 PHONE (606) 365-8362
 FAX (606) 365-1097



| REVISION(S) |
|-------------|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |



DATE: 01/04/22
 SCALE: 1" = 100'
 DRAWN BY: M.S.
 APPROVED BY: GOOCH
 FILENAME: 18258PH1A

PHASE 1A WATER PROJECT (DIVISION 2)
 DANVILLE TO MCKINNEY CONNECTION
 8" WATER MAIN
 STANFORD, LINCOLN COUNTY, KENTUCKY

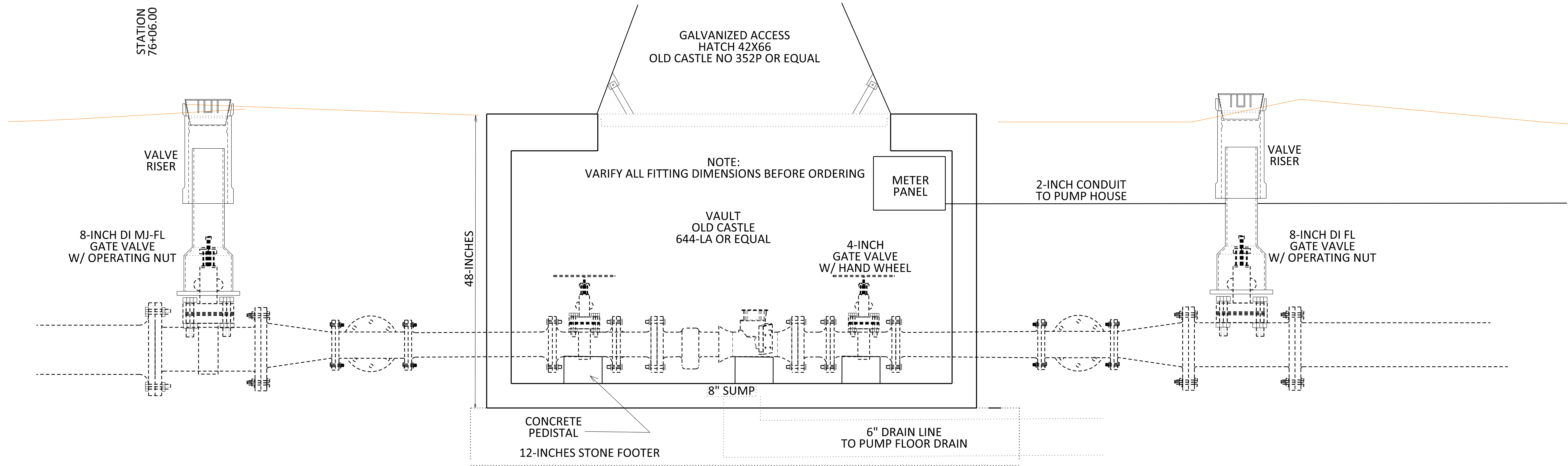
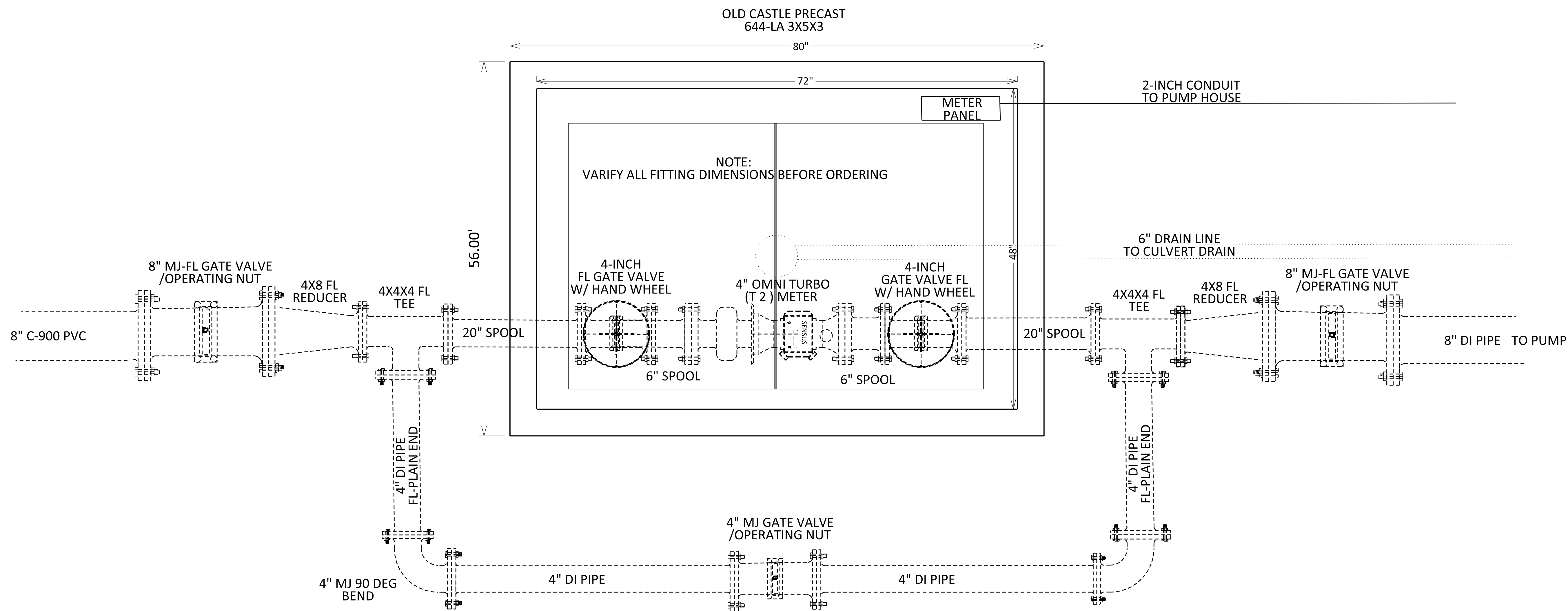
CLIENT:
 MCKINNEY WATER DISTRICT
 2900 MIDDLEBURG RD
 MCKINNEY, KY 40448

P.O. BOX 204
 165 FOSTER LANE
 STANFORD, KY 40484
 PHONE (606) 365-8362
 FAX (606) 365-1097



REVISION(S)

| |
|--|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |



FLOW METER



DATE: 08/04/20
SCALE: NTS
DRAWN BY: M.S.
APPROVED BY: GOOCH
FILENAME: 18298PH1A

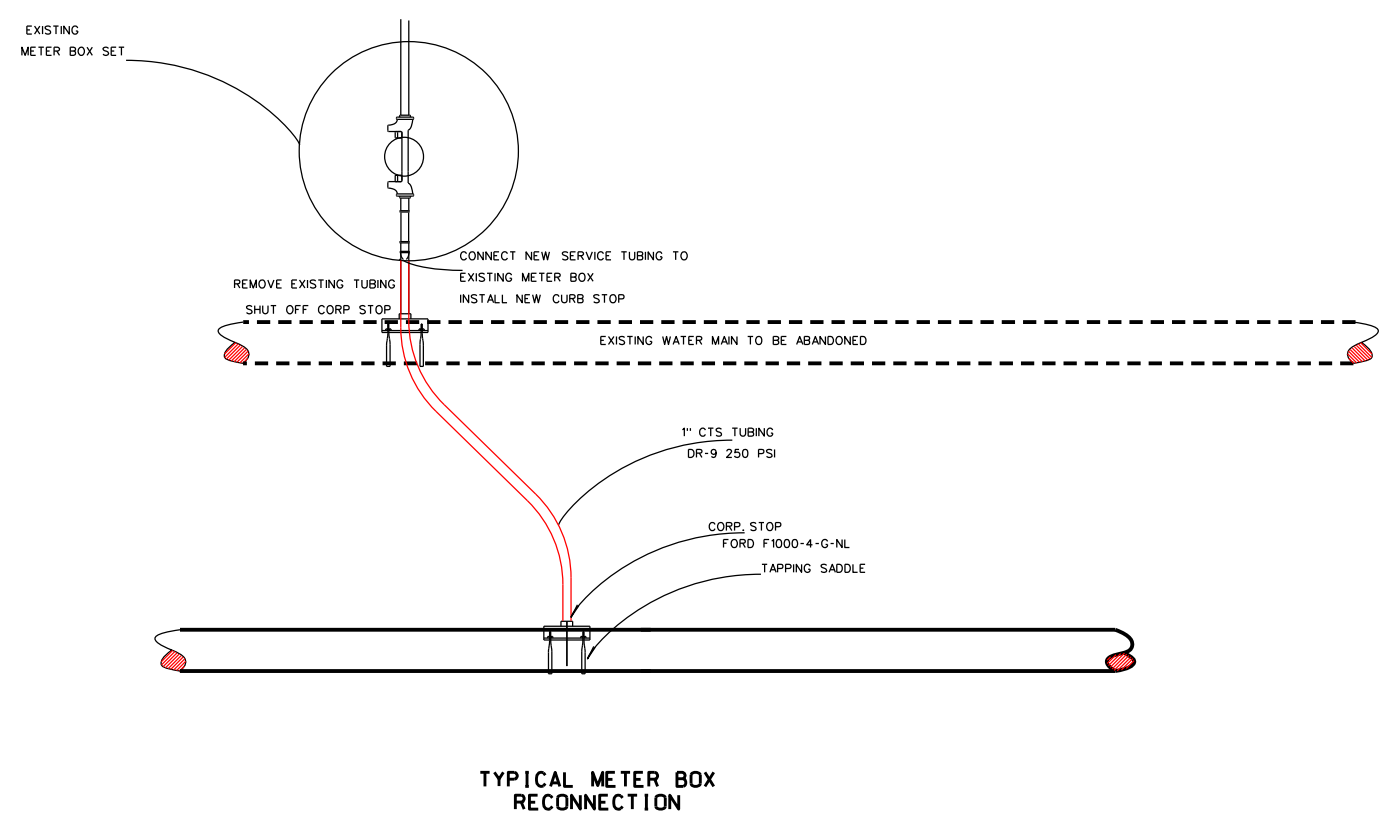
PHASE 1A WATER PROJECT (DIVISION 2)
KY HWY 300 - HATHCER LANE
MASTER METER
MCKINNEY, LINCOLN COUNTY, KENTUCKY

CLIENT:
MCKINNEY WATER DISTRICT
2900 MIDDLEBURG RD
MCKINNEY, KY 40448

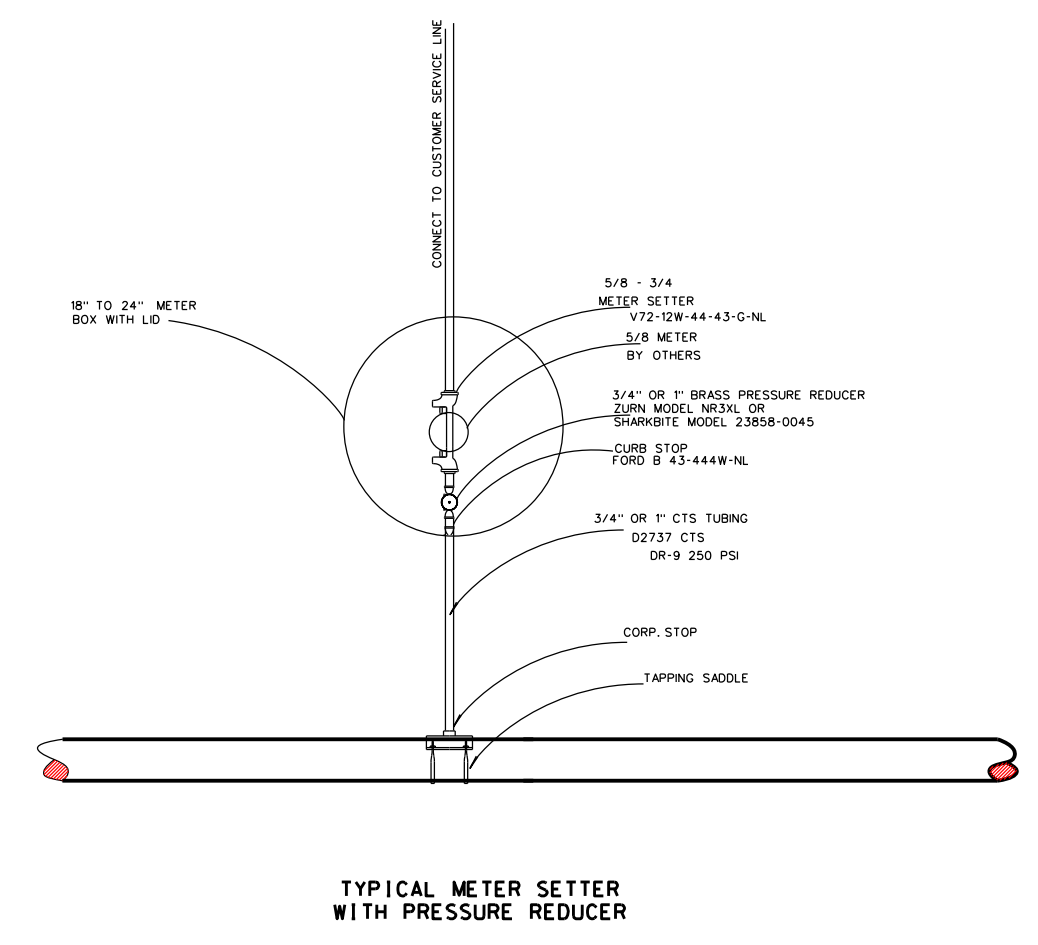
P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40464
PHONE (606) 365-8362
FAX (606) 365-1097



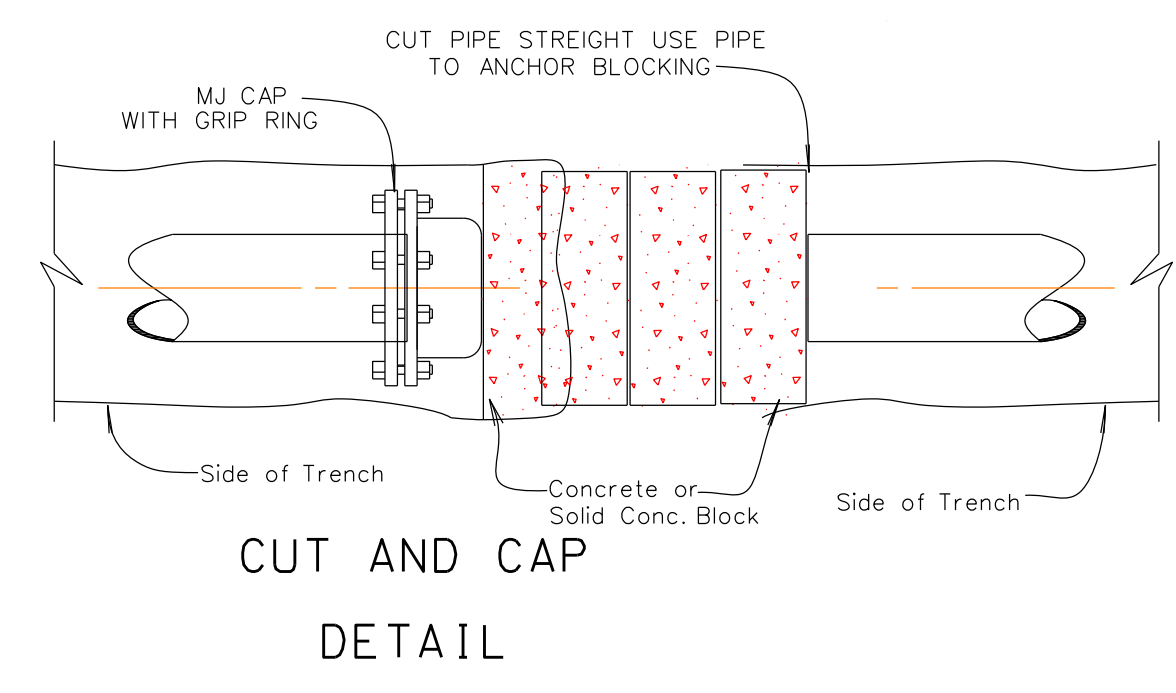
| REVISION(S) |
|-------------|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |



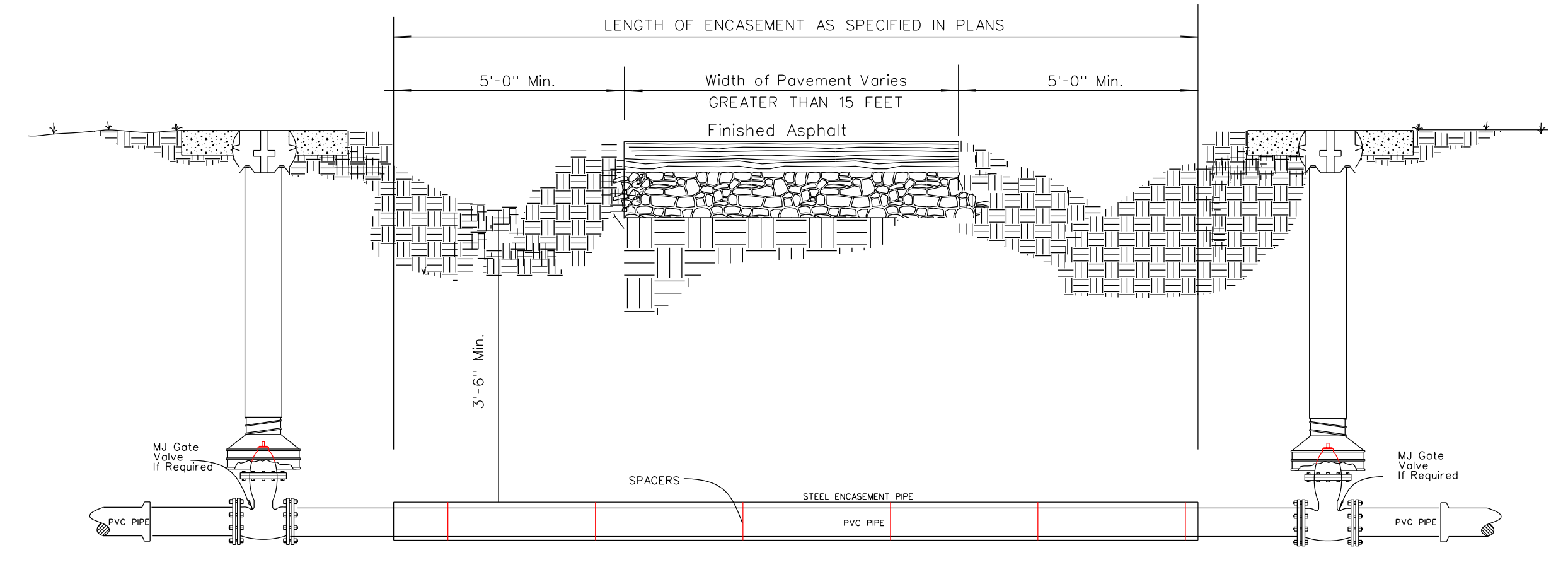
TYPICAL METER BOX RECONNECTION



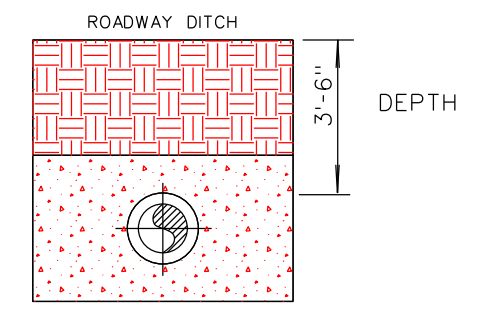
TYPICAL METER SETTER WITH PRESSURE REDUCER



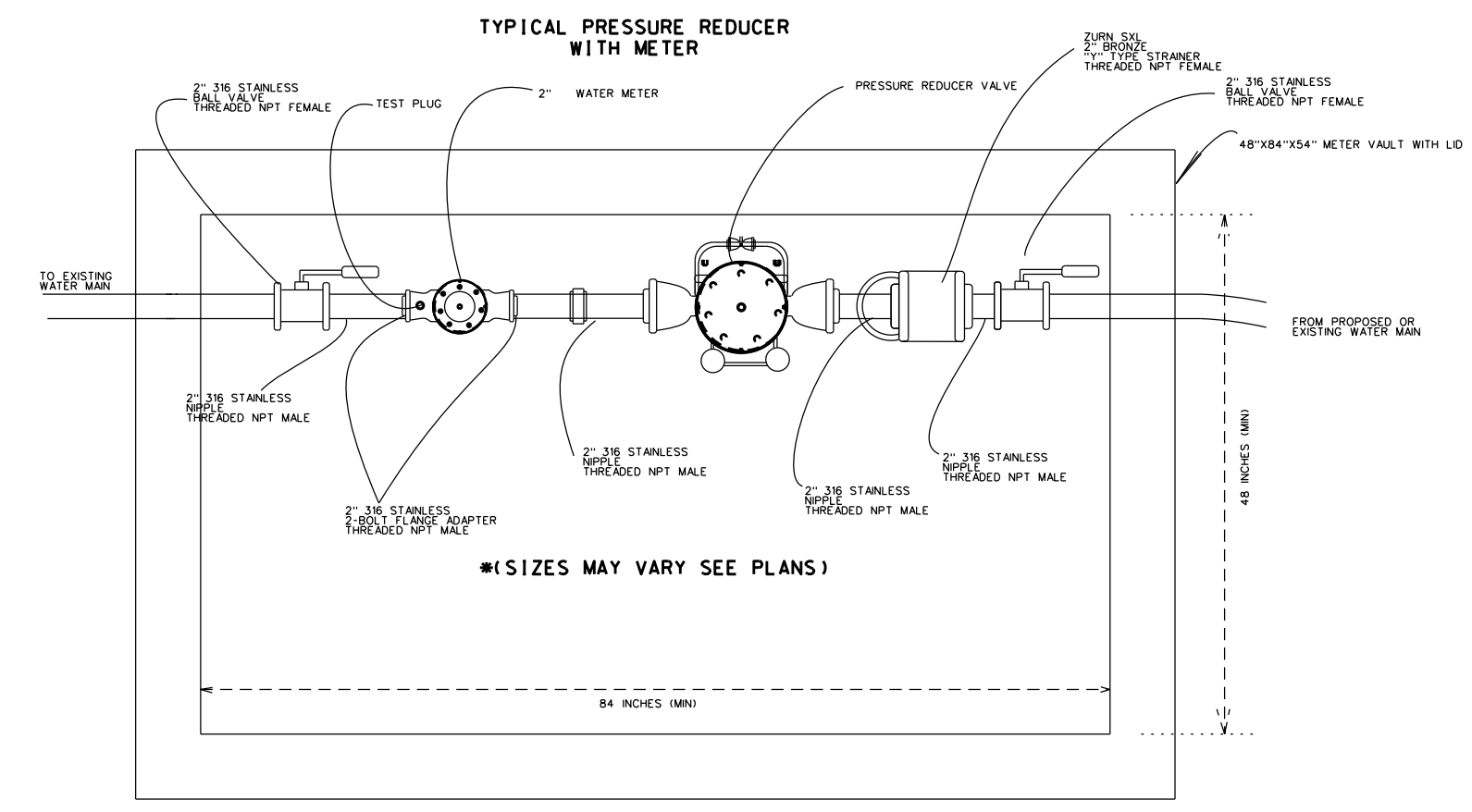
CUT AND CAP DETAIL



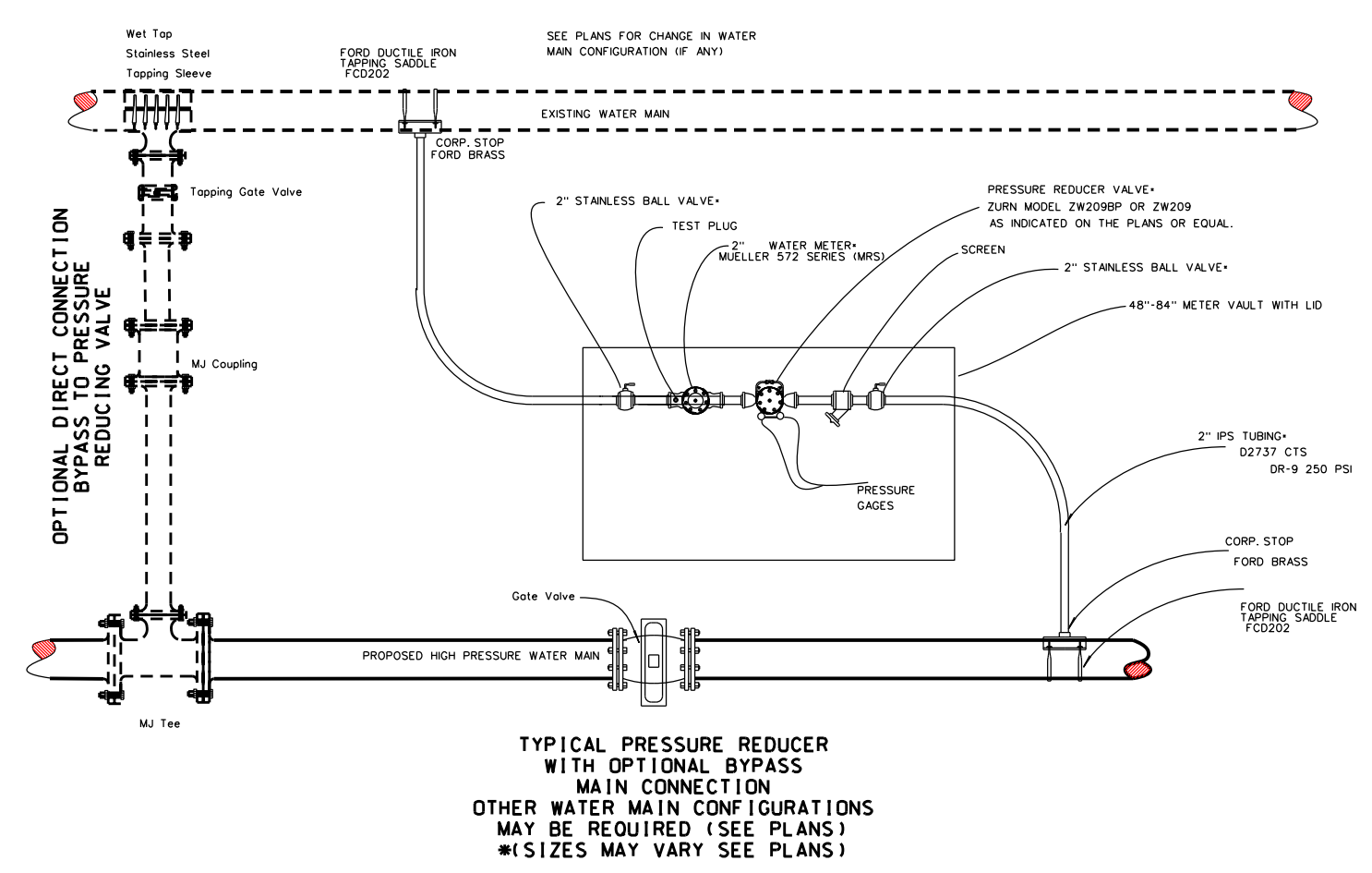
| CLASS | PRESSURE |
|--------|----------|
| SDR 17 | 250 |
| SDR 21 | 200 |



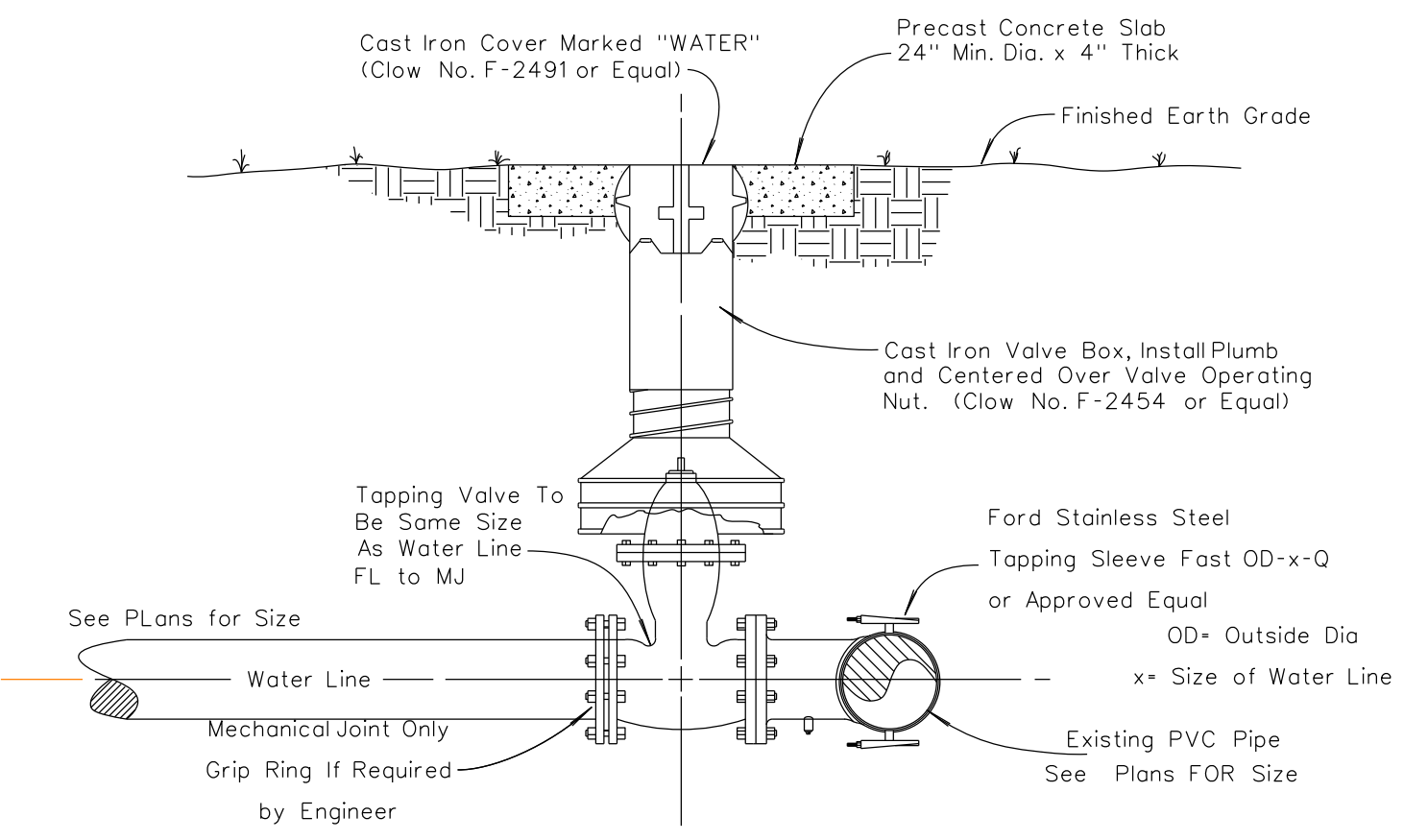
TYPE I ROAD CROSSING
ROAD CROSSING BORE WITH PVC WATERLINE



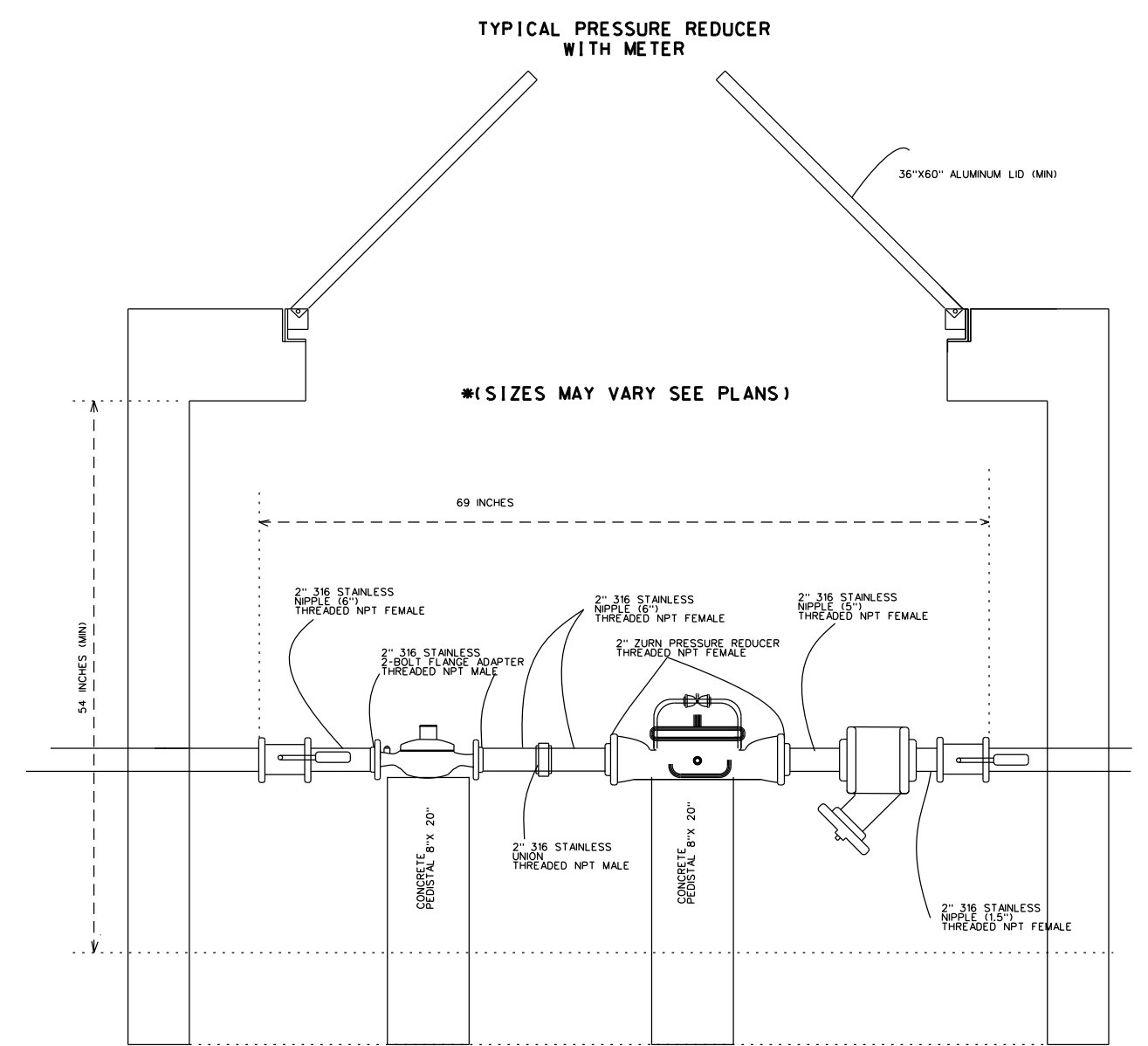
TYPICAL PRESSURE REDUCER WITH METER



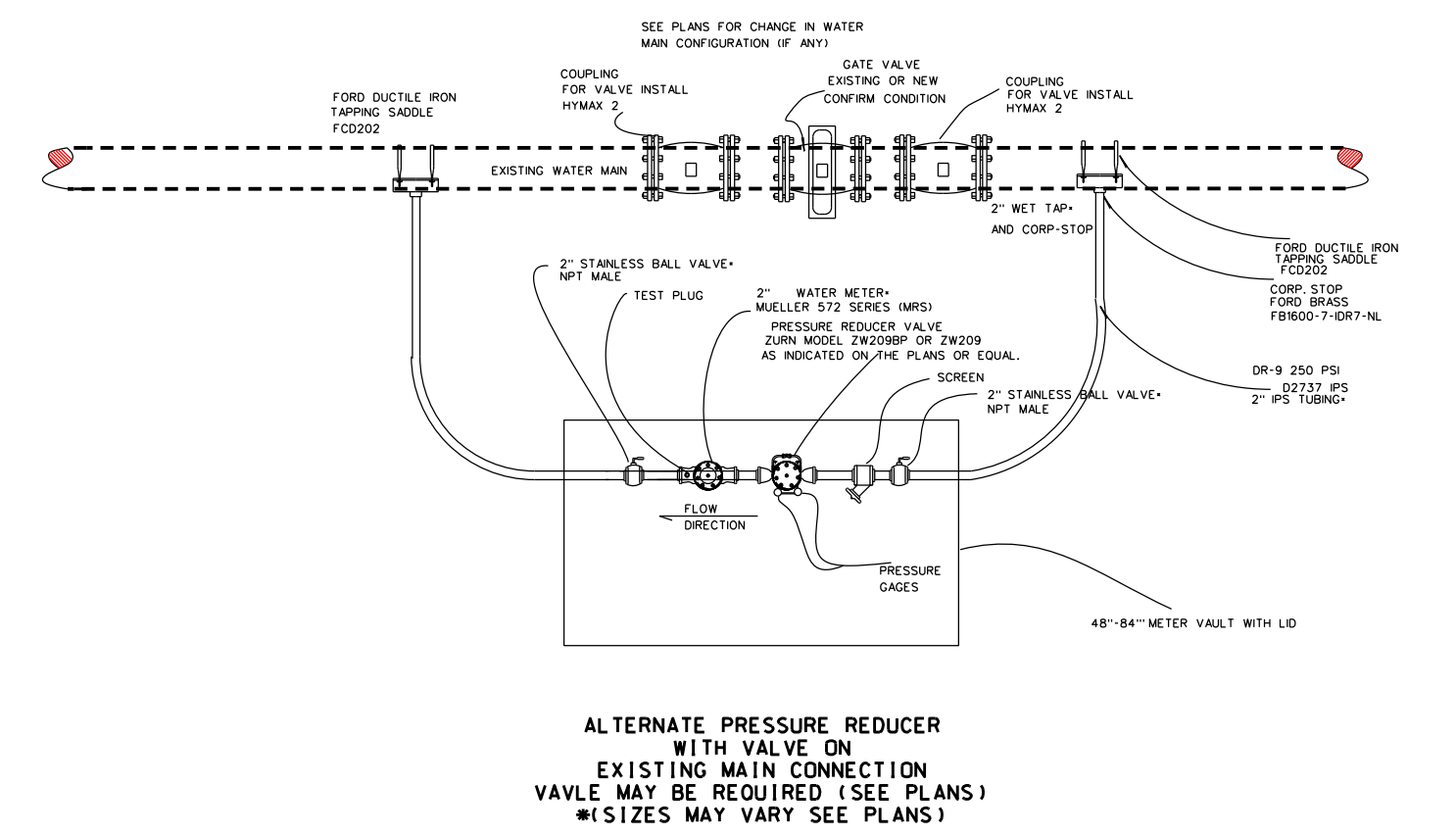
TYPICAL PRESSURE REDUCER WITH OPTIONAL BYPASS MAIN CONNECTION
OTHER WATER MAIN CONFIGURATIONS MAY BE REQUIRED (SEE PLANS)
#SIZES MAY VARY SEE PLANS



WET TAP ON PVC PIPE



TYPICAL PRESSURE REDUCER WITH METER



ALTERNATE PRESSURE REDUCER WITH VALVE ON EXISTING MAIN CONNECTION
VALVE MAY BE REQUIRED (SEE PLANS)
#SIZES MAY VARY SEE PLANS

DATE: 10-7-19
SCALE: 1" = 10'
DRAWN BY: M.S.
APPROVED BY: GOOCH
FILENAME: 1829SDANCON

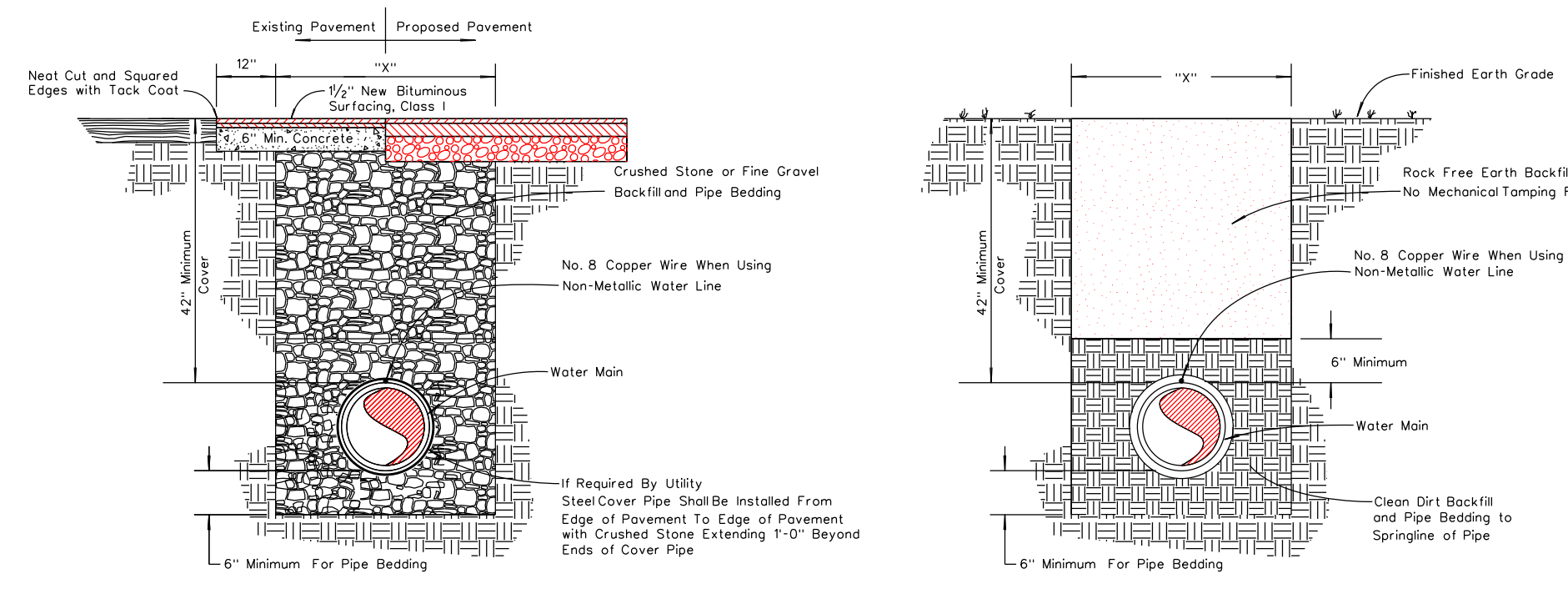
PHASE 1A WATER PROJECT
WATER MAIN CONSTRUCTION
PRESSURE REDUCER & METER SETTINGS
MCKINNEY, LINCOLN COUNTY, KENTUCKY

CLIENT:
MCKINNEY WATER DISTRICT
2900 MIDDLEBURG RD
MCKINNEY, KY 40448

P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40484
PHONE (606) 365-8362
FAX (606) 365-1097

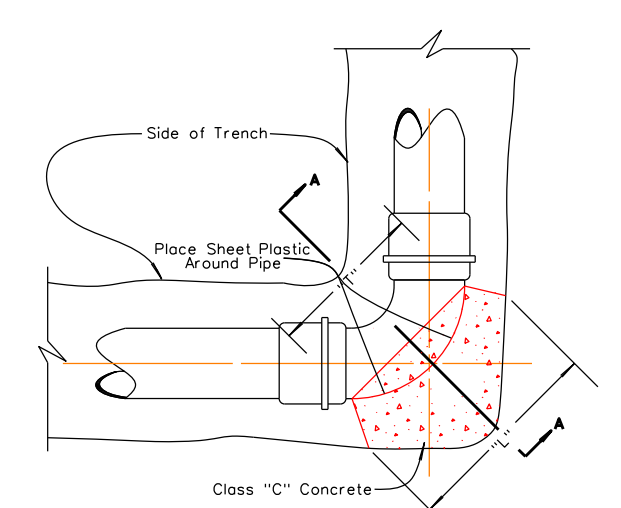


REVISION(S)

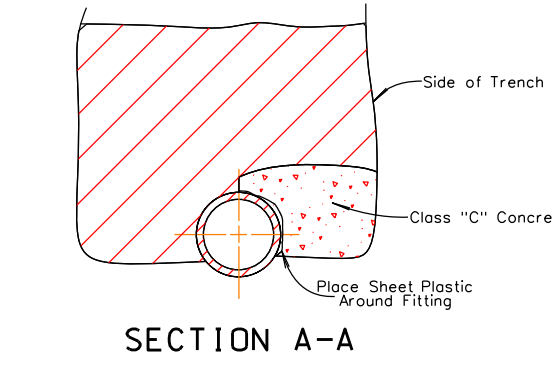


PAVED or CONCRETE AREAS
EARTH AREAS
TYPICAL BACKFILL & BEDDING METHODS

| TRENCH WIDTH | |
|--------------|-------|
| PIPE SIZE | W x D |
| 4" Thru 12" | 30" |
| 14" Thru 18" | 36" |
| 20" Thru 24" | 42" |
| 26" Thru 36" | 54" |



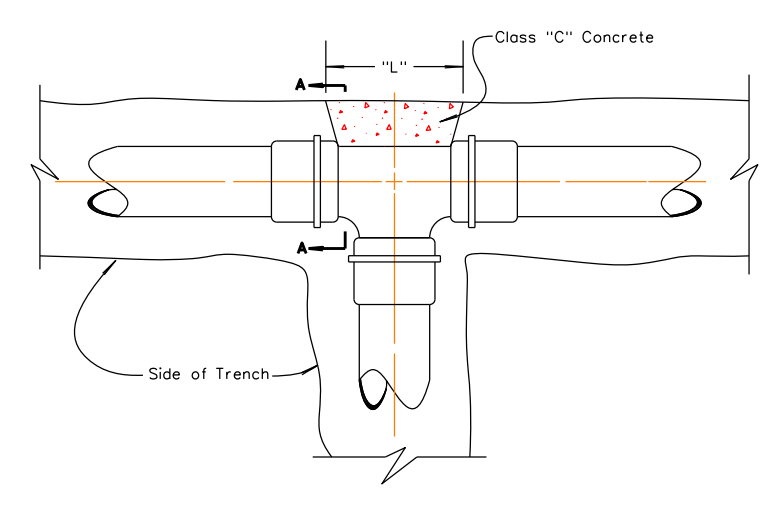
45° AND 90° BENDS



SECTION A-A

PLUGS

CONCRETE THRUST BLOCK



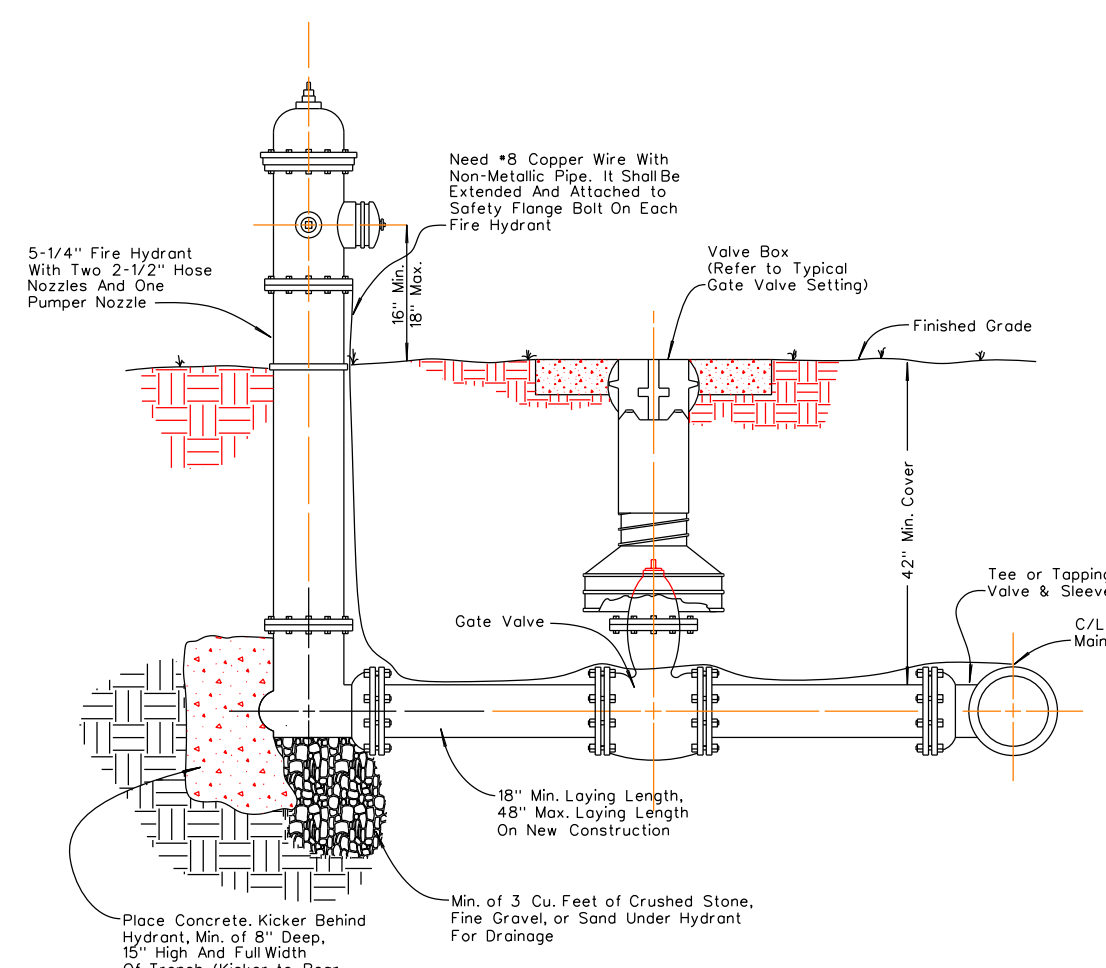
TEES

ALL FITTINGS DI MJ WITH GRIP RING ABOVE 100 PSI FOR PRESSURE ABOVE 100 PSI INCREASE BY 100%

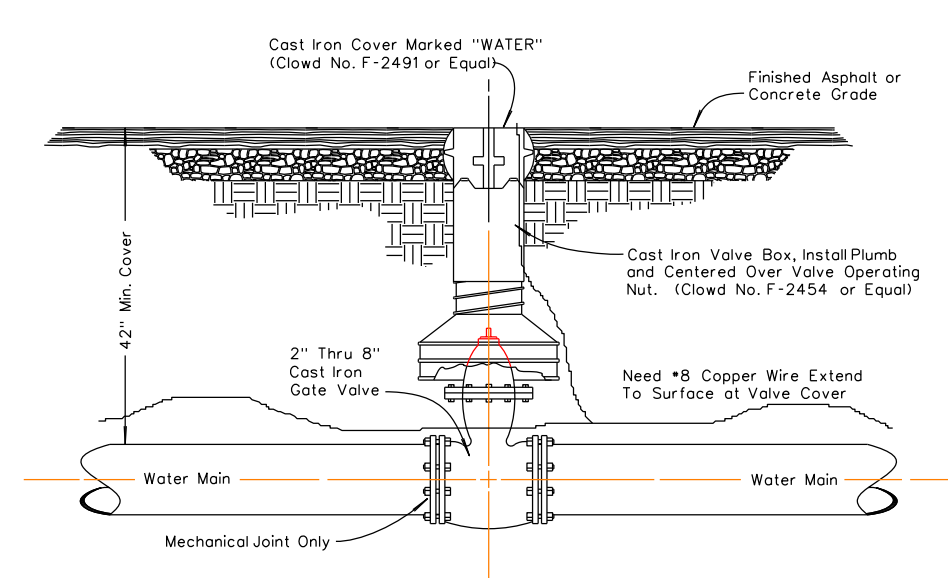
| PLUGS AND TEES | | | | | | |
|----------------|-----|-----|-----|-----|-----|-----|
| SIZE | 2" | 3" | 4" | 6" | 8" | 10" |
| D | 6" | 6" | 6" | 6" | 6" | 6" |
| L&W | 14" | 16" | 18" | 20" | 22" | 24" |

| (45°) EIGHTH BENDS | | | | | | |
|--------------------|-----|-----|-----|-----|-----|-----|
| SIZE | 2" | 3" | 4" | 6" | 8" | 10" |
| D | 6" | 6" | 6" | 6" | 6" | 6" |
| L | 14" | 16" | 18" | 20" | 22" | 24" |
| T | 10" | 12" | 14" | 16" | 18" | 18" |

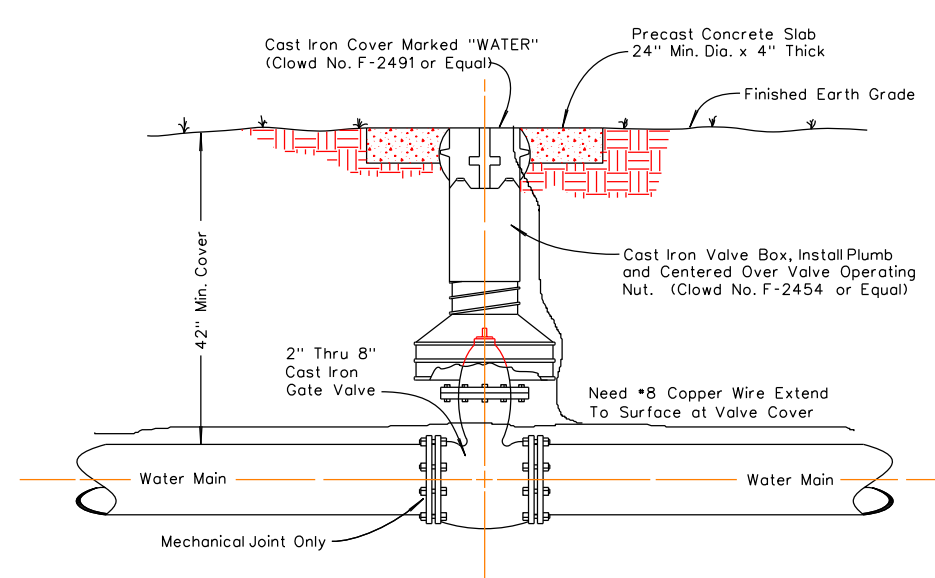
| (90°) QUARTER BENDS | | | | | | |
|---------------------|-----|-----|-----|-----|-----|-----|
| SIZE | 2" | 3" | 4" | 6" | 8" | 10" |
| D | 6" | 6" | 6" | 6" | 6" | 6" |
| L | 15" | 18" | 21" | 24" | 27" | 30" |
| T | 10" | 12" | 14" | 16" | 18" | 20" |



TYPICAL FLUSH HYDRANT SETTING

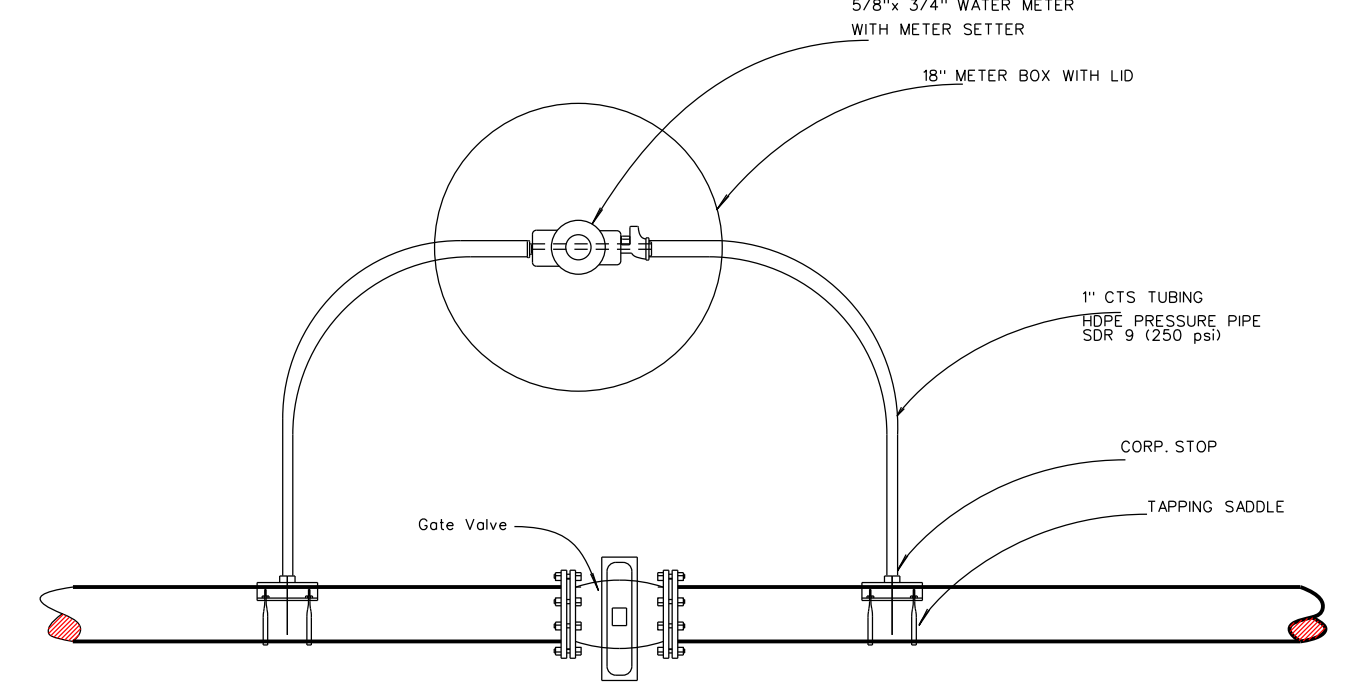


PAVED or CONCRETE AREAS

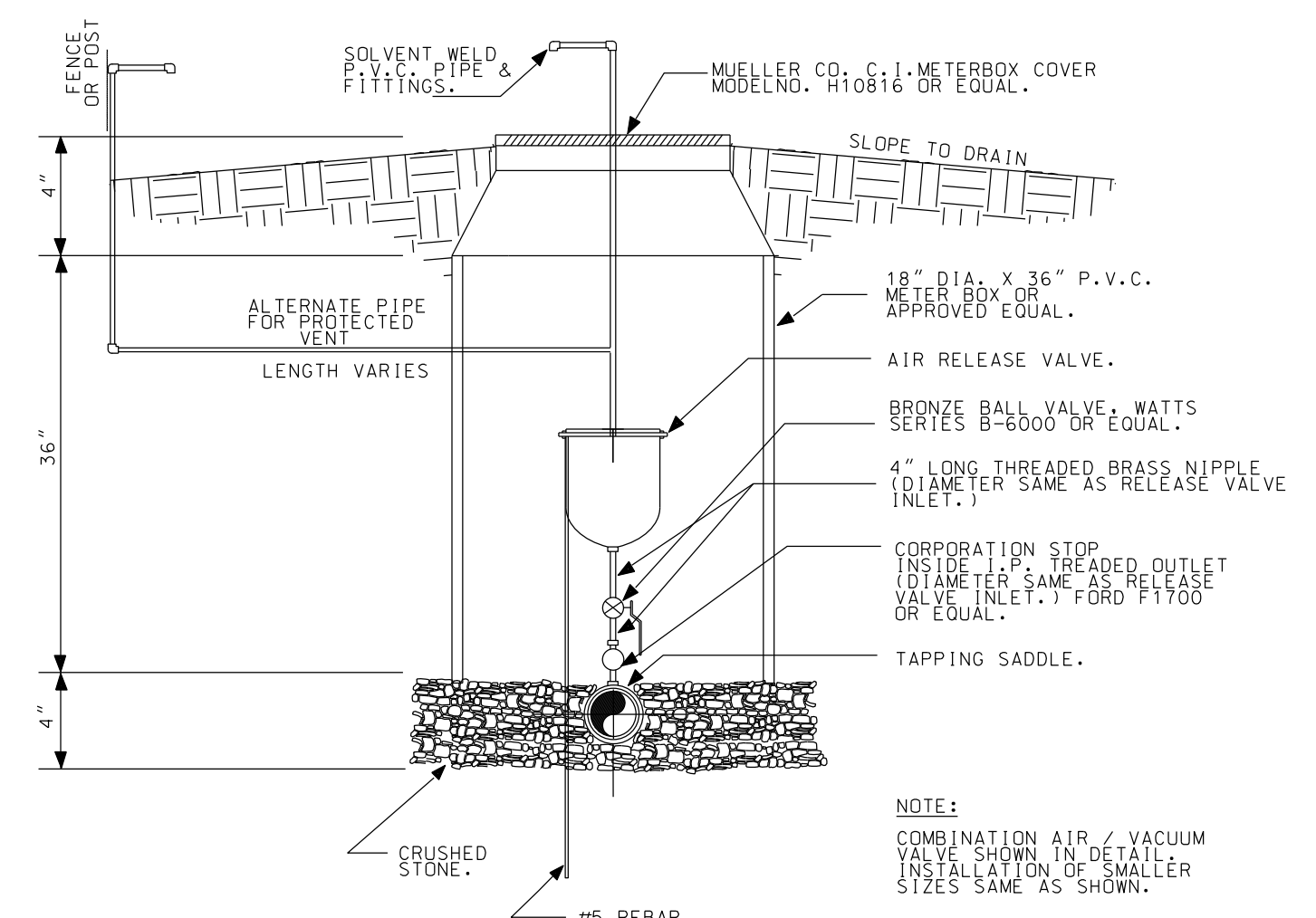


EARTH AREAS

TYPICAL GATE VALVE SETTING

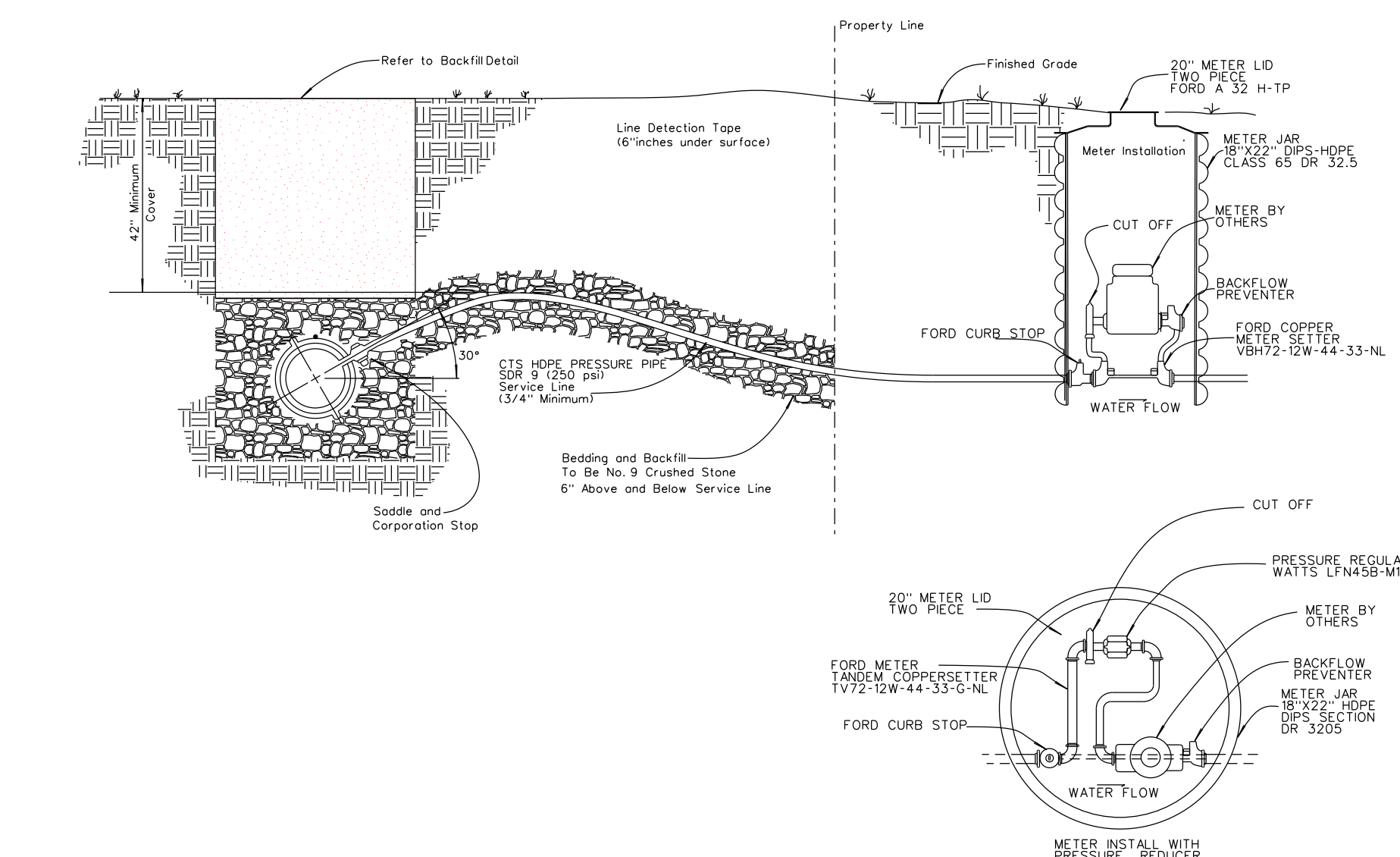


TEST METERS AT VALVES WHERE REQUIRED OR AT ALL TYPE II STREAM CROSSING

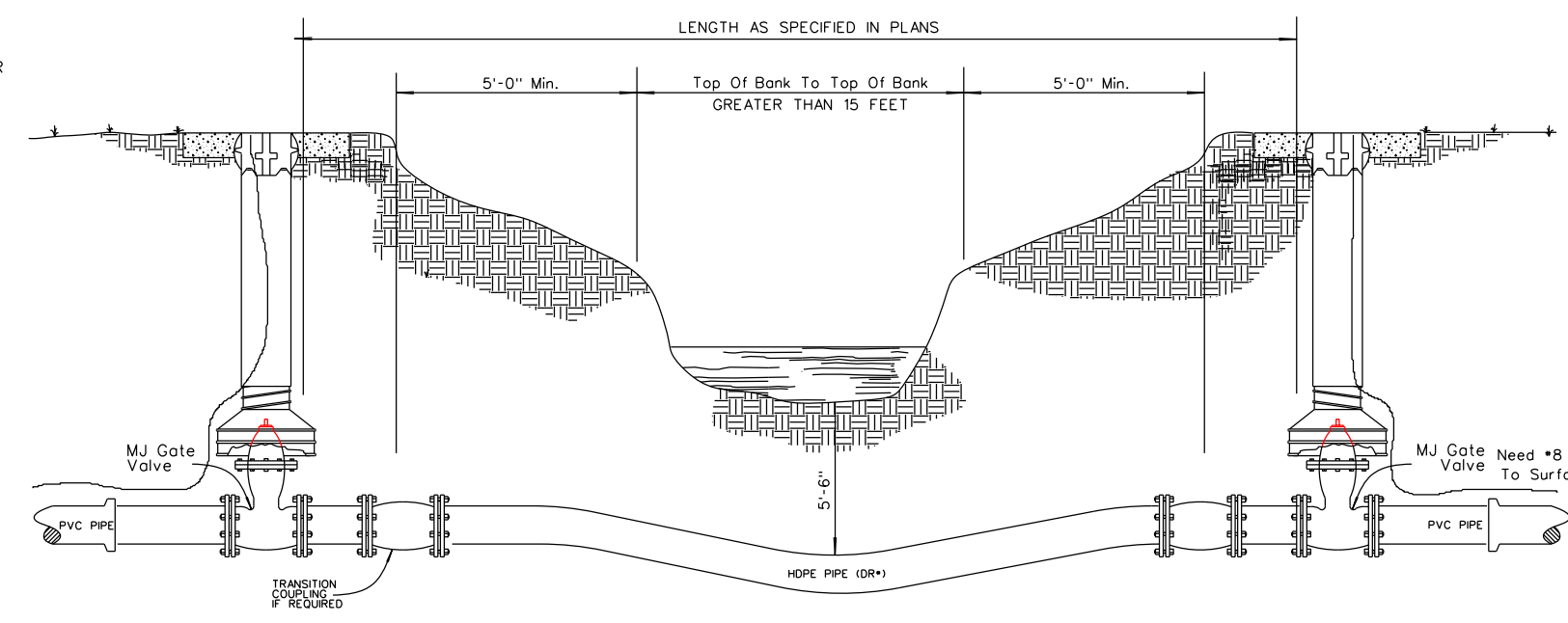


AUTOMATIC LINE AIR RELEASE DETAIL

NOTES:
COMBINATION AIR / VACUUM VALVE SHOWN IN DETAIL
INSTALLATION OF SMALLER SIZES SAME AS SHOWN.



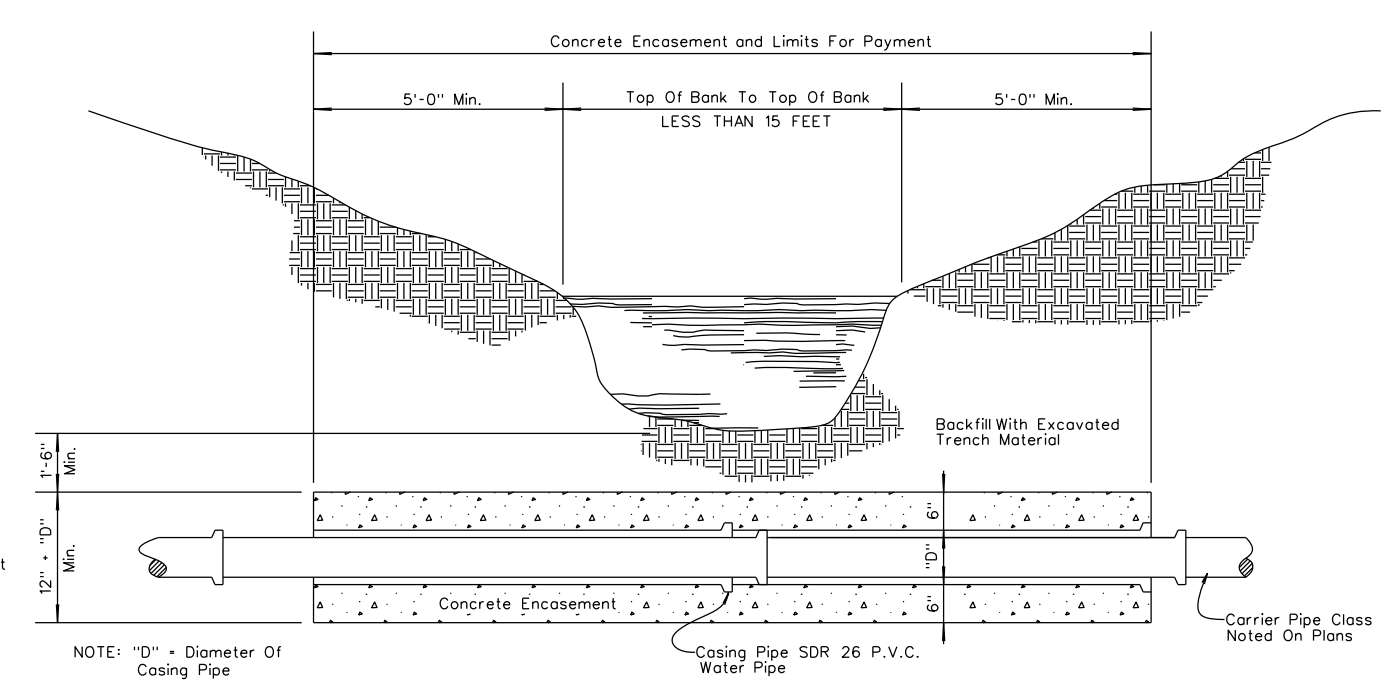
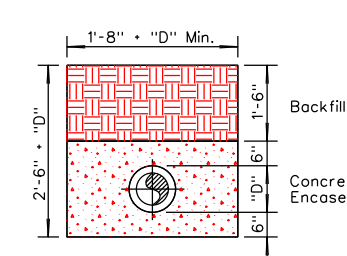
TYPICAL 3/4" 1" AND 2" SERVICE CONNECTION



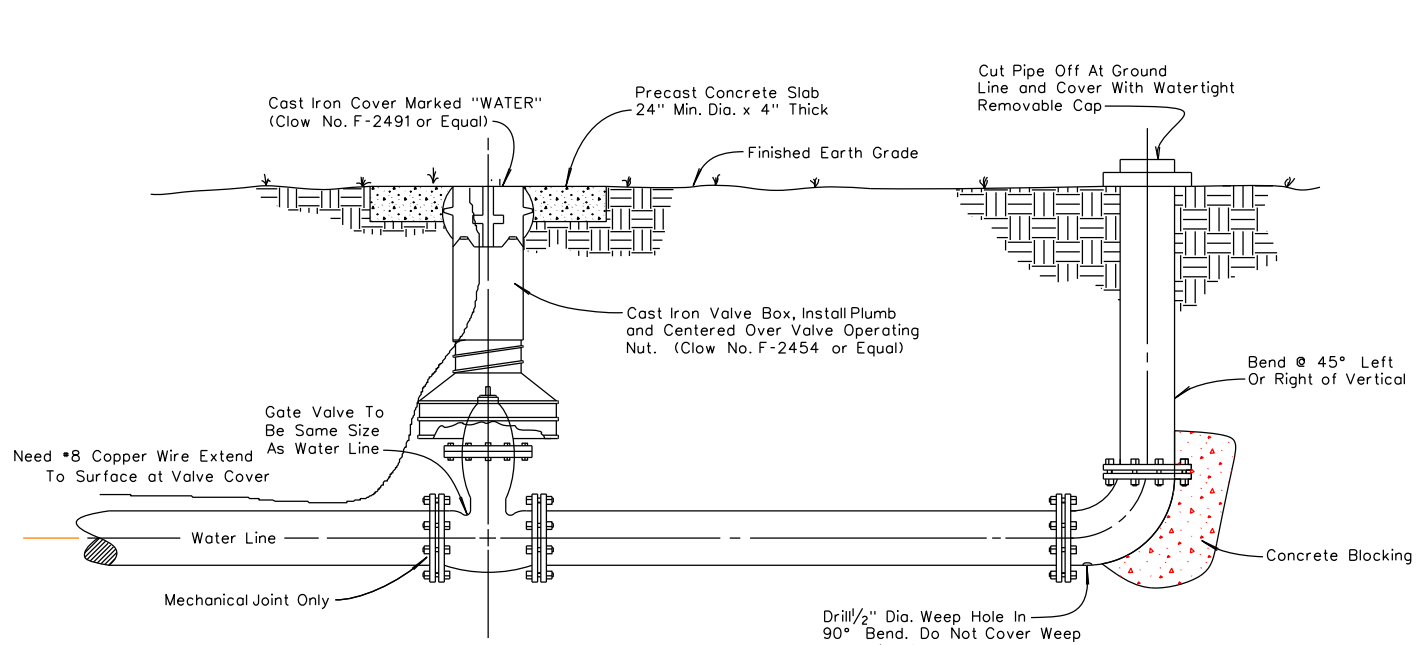
| CLASS | PRESSURE PSI |
|--------|--------------|
| DR 7.3 | 350 |
| DR 9 | 250 |
| DR 11 | 200 |

TYPE II STREAM CROSSING STREAM CROSSING BORE WITH HDPE WATERLINE

| Dia of Carrier Pipe | Dia of Casing Pipe |
|---------------------|--------------------|
| 3" | 6" |
| 4" | 8" |
| 6" | 30" |



TYPE I STREAM CROSSING STREAM CROSSING ON P.V.C. WATERLINE



TYPICAL BLOW-OFF VALVE DETAIL (4" OR SMALLER)

DATE: 10/04/19
SCALE: 1" = 10'
DRAWN BY: M.S.
APPROVED BY: GOOCH
FILENAME: 1829SDANCON

WATER PROJECT
PHASE 1A CONTRACT 1 DIVISION 2
DETAILS
STANFORD, LINCOLN COUNTY, KENTUCKY

CLIENT:
MCKINNEY WATER DISTRICT
2900 MIDDLEBURG RD
MCKINNEY, KY 40448

P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40464
PHONE (606) 365-8362
FAX (606) 365-1097



| REVISION(S) |
|-------------|
| |
| |
| |
| |
| |

SOIL EROSION CONTROL SEQUENCE

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTROL EROSION FROM THIS SITE DURING ITS PHYSICAL ALTERATION. THIS PLAN SEEKS TO PROVIDE SOME DIRECTION IN THE MANNER IN WHICH THE OBJECTIVE TO CONTROL EROSION CAN BE ACCOMPLISHED. IT IS NOT THE INTENT OF AGE ENGINEERING TO LIMIT THE CONTRACTOR IN THE MANNER AND TECHNIQUES TO CONTROL EROSION. RECOMMENDED RESOURCE FOR CONTRACTORS WORK IS "STORMWATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES-DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES" PUBLISHED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY.

THE FOLLOWING IS A LIST, IN SEQUENCE, OF CONSTRUCTION ACTIVITIES TO CONTROL SOIL EROSION FOR THE PROJECT:

- 1) 50" OF NO.2 STONE SHALL BE INSTALLED AT THE ACCESS LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS FREE FROM MUD, DIRT, DEBRIS, AND ROCK. DUST SHALL BE KEPT TO A MINIMUM BY UTILIZING SPRINKLING, CALCIUM CHLORIDE, VEGETATIVE COVER, SPRAY ON ADHESIVES OR OTHER APPROVED METHODS.
- 2) INSTALL SILT FENCE, DIVERSION DITCHES, AND SILT TRAPS AS NEEDED ACCORDING TO THE "BEST MANAGEMENT PRACTICES".
- 3) PRELIMINARY GRADING OF THE SITE SHALL BEGIN AS AREAS OF THE SITE ARE BROUGHT TO DESIGN GRADES, EROSION CONTROL MEASURES SUCH AS DIVERSION DITCHES, SILT TRAPS, STRAW BALES, RIPRAP CHANNEL LINING, AND SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH "BEST MANAGEMENT PRACTICES".
- 4) CLEAR AND GRUB THE SITE AND DISPOSE OF ALL DEBRIS PROPERLY. IF AN AREA THAT HAS BEEN DISTURBED IS TO BE INACTIVE FOR MORE THAN 21 DAYS, THE CONTRACTOR SHALL SUPPLY STABILIZATION BY MEANS OF TEMPORARY SEEDING AND MULCHING, SODDING, COVERING OR OTHER EQUIVALENT EROSION CONTROL MEASURES AS SOON AS PRACTICAL. IN NO CASE SHALL AN AREA REMAIN UNTREATED FOR MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED. FOR TEMPORARY SEEDING THE CONTRACTOR SHALL UTILIZE A FAST GROWING SEED OF EITHER OATS, ANNUAL RYE GRASS OR WHEAT DEPENDING ON TIME OF YEAR.
- 5) STOCKPILED MATERIALS SHOULD BE PROPERLY STABILIZED WITH TEMPORARY SEEDING AND EROSION CONTROL FENCE.
- 6) MAINTAIN ALL FILTERS AND TRAPS DURING CONSTRUCTION TO PREVENT ANY BLOCKAGES FROM ACCUMULATED SEDIMENT. AFTER EVERY RAIN IN EXCESS OF HALF AN INCH, SILT CONTROL DEVICES ARE TO BE INSPECTED CLEANED AND REPAIRED IF NECESSARY. SILT FENCE MUST BE CLEANED IF SILT BUILDUP REACHES 1/3 OF THE SILT FENCE HEIGHT. SILT TRAPS SHALL BE CLEANED WHEN SILT DEPOSITS REACH 1/2 OF TRAP CAPACITY. ADDITIONAL SEEDING, SILT FENCE, AND/OR STRAW BALES MAY BE REQUIRED DURING CONSTRUCTION AS SPECIFIED BY THE ENGINEER.
- 7) ALL SURFACE INLETS AND CURB INLETS SHALL BE PROTECTED WITH INTERWOVEN STONE BAGS.
- 8) WHEN DISTURBED AREAS ARE AT FINAL GRADE AND ALL ACTIVITY IN THESE AREAS IS COMPLETE, PERMANENT VEGETATION SHALL BE PROVIDED AS DESCRIBED IN THE PLANS AND SPECIFICATIONS. THIS VEGETATION IS TO INCLUDE PERENNIAL GRASSES APPROVED BY THE DEVELOPER. SLOPES EXCEEDING 4:1 SHALL HAVE THE ADDITIONAL PROTECTION OF MULCHING OR SODDING TO PREVENT EROSION. SEEDING OF ALL PERMANENT VEGETATION SHALL FOLLOW GUIDELINES SET FORTH IN "KENTUCKY BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES" PUBLISHED BY THE DIVISION OF CONSERVATION AND DIVISION OF WATER, NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET.
- 9) UNLESS OTHERWISE NOTED, CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT AND REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS ONLY WHEN THERE IS A SUFFICIENT GROWTH OF GROUND COVERAGE TO PREVENT FURTHER EROSION.

PERMIT REQUIREMENTS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A GRADING PERMIT FROM THE LOCAL GOVERNMENT PRIOR TO ANY CONSTRUCTION ACTIVITY.

PRIOR TO COMMENCING WITH CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS INCLUDING SUBMISSION IN WRITING OF A NOTICE OF INTENT (NOI) TO DISTURB WITH THE KENTUCKY DIVISION OF WATER.

WHERE REFERRED TO IN THE PLANS AND SPECIFICATIONS AS CONTRACTOR/OWNER RESPONSIBILITY, IT IS THE CONTRACTOR'S OBLIGATION TO ACT ON THE OWNER'S BEHALF IN FULFILLING ALL REQUIREMENTS FOR COMPLIANCE WITH PERMIT AND EROSION CONTROL.

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SOIL AND EROSION CONTROL AND DUST CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD TO PREVENT EROSION OF SOIL AND ENTRY OF SOIL-BEARING WATER AND AIRBORNE DUST ON ADJACENT PROPERTIES AND INTO THE PUBLIC STORM WATER FACILITIES. SEE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) NOTES THIS SHEET FOR ADDITIONAL INFORMATION
2. EXCAVATION AND DISPOSAL OF EXISTING SOIL OR UNSUITABLE MATERIAL SHALL BE DONE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS, CODES, AND ENVIRONMENTAL REGULATIONS.
3. MAINTAIN SITE SECURITY AND SAFETY STANDARDS THROUGHOUT CONSTRUCTION.
4. ALL DISTURBED AREAS OUTSIDE OF HARD CAP AREAS SHALL BE SEEDED AND STRAWED AT A RATE OF 3LBS. PER 1000 SQ. FT. WITH A MIXTURE OF 50% FESCUE, 25% KY BLUEGRASS, AND 25% WHEAT (OR APPROVED EQUAL), UNLESS OTHERWISE INDICATED ON PLAN. AMEND SOIL TO PROMOTE HEALTHY GRASS GROWTH. TEST SOIL TO DETERMINE PROPER SOIL AMENDMENTS. SOIL TEST TO BE PERFORMED BY PROPERTY TESTING AGENCY. ALL EROSION CONTROL AND SEDIMENT PREVENTION MEASURES SHALL BE IN ACCORDANCE WITH THE PLANS AND ANY LOCAL REGULATIONS AND ORDINANCES.

UTILITY NOTES:

1. BEFORE PROCEEDING WITH THE WORK, THE CONTRACTOR SHALL CONFER WITH ALL PUBLIC OR PRIVATE COMPANIES, AGENCIES, OR DEPARTMENTS THAT OWN AND OPERATE UTILITIES IN THE VICINITY OF THE CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR:
- A. CONTACTING THE INDIVIDUAL UTILITY OWNERS TEN DAYS PRIOR TO CONSTRUCTION, ADVISING THEM OF THE WORK TO TAKE PLACE.
 - B. SOLICITING THEIR AID IN LOCATING AND PROTECTING ANY UTILITY WHICH MAY INTERFERE WITH CONSTRUCTION.
 - C. EXCAVATING AND VERIFYING THE HORIZONTAL AND VERTICAL LOCATION OF EACH UTILITY.
 - D. ANY DAMAGE TO ANY EXISTING UTILITY.

2. EXCAVATE WITH EXTREME CAUTION TO AVOID DISTURBING UNDERGROUND UTILITIES THAT ARE TO REMAIN IN SERVICE. REPORT ANY CONFLICTS TO THE ENGINEER IMMEDIATELY.

GENERAL NOTES: (CONTINUED)

- ~~5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIREMENTS OF THE BUY AMERICAN IRON AND STEEL AND THE BUILD AMERICAN ACTS. THE CONTRACT WILL REQUIRE CERTIFICATION OF ALL SIGNIFICANT IRON OR STEEL PRODUCTS USED IN THESE CONTRACTS. THIS WILL INCLUDE CERTIFICATIONS BY THE MANUFACTURERS, SUPPLIERS AND CONTRACTORS FOR THESE PROJECTS. IN ADDITION ALL MATERIALS USE IN THE CONSTRUCTION OF THIS PROJECT WILL MEET THE BUILD AMERICAN ACT REQUIREMENTS.~~
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPLYING THE NECESSARY EQUIPMENT TO PROVIDE FOR THE REMOVAL OF ALL TRENCH EXCAVATION FROM UNDER ASPHALT AND CONCRETE PAVEMENTS. NO EXCAVATION MATERIALS FROM UNDER PAVEMENT WILL BE ALLOWED TO BE PLACED ON THE GROUND, IT SHALL BE LOADED INTO TRUCK FOR REMOVAL AT THE TIME OF EXCAVATION. EXCAVATION WILL CEASE UNTIL THE PROPER REMOVAL EQUIPMENT IS AVAILABLE TO THE PROJECT SIGHT.
7. FOR ALL WATER SERVICE LINES THE CONTRACTOR WILL BE REQUIRED TO MEET DIVISION OF WATER, STATE PLUMING CODE, AND MCKINNEY WATER DISTRICT REQUIREMENTS.
8. ASPHALT AND CONCRETE PAVEMENTS MUST BE STONE BACK FILLED FOR THE FULL DEPTH OF TRENCH. GRAVEL DRIVEWAYS MAY BE BACK FILLED WITH EARTH EXCEPT FOR TOP 12-INCHES OF STONE AND PIPE BEDDING.
9. ASPHALT AND CONCRETE PAVEMENTS NOT SAW CUT WILL NOT BE ELIGIBLE FOR PAYMENT FOR REPAIR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO PAVEMENTS NOT SCHEDULED FOR REMOVAL (SEE CONSTRUCTION NOTES ON PLANS FOR QUANTITIES).

UTILITY AND STREET OWNER INFORMATION

| | | |
|---|--|---|
| 1. CITY OF HUSTONVILLE WATER CITY HALL LIBERTY STREET HUSTONVILLE, KY 606-346-2501 | 4. KENTUCKY UTILITIES BOARDWAY DANVILLE, KY 859-936-3240 GUS FAITHE | 7. INTER COUNTY RECC 1009 HUSTONVILLE RD DANVILLE, KY (859) 236-4561 |
| 2. ATMOS GAS COMPANY WHIRLAWAY DRIVE DANVILLE, KY 859-236-2300 EARL TAYLOR | 5. LINCOLN COUNTY ROAD DEPT S US 27 STANFORD, KY 859-749-0428 JEREMY VANHOOK | 8. CITY OF DANVILLE P O BOX 670 445 W MAIN STREET DANVILLE, KY (859) 238-1200 |
| 3. BELL SOUTH TELEPHONE DAVID DRIVE DANVILLE, KY 859-936 JUDY STANLEY | 6. TIME WARNER CABLE SKYLINE DRIVE STANFORD, KY 606-365-8505 | |

UNIT PRICE DESCRIPTIONS

- 1) Contractor to furnish all signs required by DOT (see details).
- 2) Telemetry: Units - Lump Sum; To include all electronics, equipment, cabinets, conduit, wiring, control systems, to allow communications and operations. The tank telemetry will be coordinated with the City of Danville Pumping station install.
- 3) PVC Water Main: Units - Per Linear Feet; To include excavation, pipe, fittings, back fill rock free earth or (gravel for bedding if required and back fill as required under pavement).
- 4) Roadway, Driveway Bores: Units - Per Linear Feet by size; To include excavations and back filling, boring either conventional or directional, encasement pipe, carrier pipe spacers, seals, and other items required for completion. (excluding carrier pipe if required)
- 5) Master Meter ; To include factory tees, fittings, excavations and back filling, gravel and other items required for completion. Piping meter setters, valves, meter vault and meter lid to meet McKinney and the City of Danville requirements.
- 6) Street/Driveway Bore: Units - Units Linear Feet; No encasement to include excavations and back filling, boring either conventional or directional, and other items required for completion.
- 7) Customer Service taps: Units Each; To include factory tees, fittings, excavations and back filling, gravel and other items required for completion. Piping meter setters, meter pit and meter lid to meet McKinney requirements.
- 8) Asphalt Repair and Stone Back fill: Units - Units Square Feet; To include saw cutting of asphalt pavement, the stone back fill above the pipe bedding and around manholes, asphalt and or concrete to match existing. To be paid by the square foot and measured by actual constructed but not to exceed the width of the ditch equal to the depth of the trench as quantity shown on plans. Repair will not be eligible for payment if not saw cut before excavation.
- 9) Concrete Repair and Stone Back fill: Units - Square Feet; To include saw cutting of concrete pavement the stone back fill above the pipe bedding, asphalt and or concrete to match existing. To be paid by the square foot and measured by actual constructed but not to exceed the width of the ditch equal to the depth of the trench. Repair will not be eligible for payment if not saw cut before excavation.
- 10) Fence Repair: Units - Units Linear Feet; To include the repair of the fence removed or damaged during construction. Fence damaged beyond repair will be replaced based on the unit price by the contractor. Fence length will not exceed that which is on the permanent easement or street/road right of way. Fence damaged outside this area will not be considered for payment.
- 11) Pressure reducers: Unit each; To include the pressure reducer equipment, all piping, valves, vault/box, taps, tees, setters, meters, and other fittings that may be required to make the unit operational. In units where only the pressure reducer is added the entire meter installation will be replaced as above.
- 12) Water meter Reconnection: Unit Each; To include taps, curb stop, piping, excavations, back filling, fittings, and any other parts to reconnect a water meter customer to the new water main.
- 13) Cut and cap water main: Unit Each; To include excavation, back filling, fittings, pipe, concrete, blocking and other supplies to terminate a water main.

- 14) Culvert Removal and Replacement: Units - Linear Feet; To include the removal and reinstalled existing culvert pipe. Pipe damaged during removal will be replaced at contractor expense.
- 15) Culvert Replacement new: Units - Linear Feet; To include installing new culvert pipe too old or deteriorated to be reinstalled, or new pipe placed where needed.
- 16) Clear and Grub: Units -Lump Sum; To include vegetation removal of all growth stumps and roots to be disposed in approved qualified location. In areas indicated on the plans vegetation will be removed and stockpiled on site as directed by the engineer.
- 17) Resilient Wedge Gate Valve: Units - Each; To include mechanical joint wedge valve with all fittings required.
- 18) Seed and Straw: Units - Acre; to include finished cleanup, rock removal, debris removal, top soil preparation, seeding, and straw as required. Seed selection will be to match the grass existing in the yards/fields disturbed. Payment based on easement and right of way disturbed. Areas out of easment will be the responsibility of the contractor.
- 19) Rough dressing trench/Cleanup. Payment will require removal of excess materials, debris, soil, rock and vegetation. This includes remove of excess excavation materials and placement of top soil salvaged during excavation and mounded on trench to allow settlement. Payment will be withheld on any section of mainline pipe not complete to the satisfaction of the Engineer.
- 19) Utility Service Connection: Unit Each; to include all fitting and pipe necessary to connect a utility service from an abandoned line to a new utility line, or to relocate a utility service removed by the sewer line construction.
- 20) Gravel Driveway (w/Geo-fabric): Units - Per Ton; To include excavation, ditching, removal and stockpile top soil, gravel, and hauled fill as required. Geo-fabric separate pay unit.
- 21) Reset Light/Mail Box/Road Sign: Unit Each; To include removal and resetting with existing material if possible, to include replacement of mailbox, post, concrete, brick, flower pots, sign and any other devices that may be part of the light/mailbox/sign assembly. If damaged the contractor will be responsible for repair of replacement as part of this unit price.

NOTE: ALL EQUIPMENT AND SUPPLY MUST COMPLY WITH THE BUY AMERICAN BUILD AMERICAN ACTS.

**BEFORE YOU DIG
CALL 811 OR 1-800-752-6007**



DATE: 04/05/2019
SCALE: 1" = 50' H 1" = 5' V
DRAWN BY: MS
APPROVED BY: GOOCH
FILENAME: NOTES

**PHASE 1A MCKINNEY WATER PROJECT
MCKINNEY WATER DISTRICT
GENERAL NOTES
CONTRACT ONE DIVISION TWO**

CLIENT:
MCKINNEY
WATER DISTRICT
2900 KY HWY 198
MCKINNEY, KY 40434

P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40464
PHONE (606) 365-8362
FAX (606) 365-1097



REVISION(S)

PAVESTONE PROMURO 6INX18INX12IN
WINTER BLEND CONCRETE RETAINING
WALL BLOCK OR APPROVED EQUAL

RETAINING WALL

EXISTING GRADE

EXISTING GRADE

PROPOSED WATER MAIN

METER PIT

PROFILE VIEW

PLAN VIEW WATER METER HATCHER LOCATION

RIGHT-OF-WAY LINE

32 FT

RETAINING WALL

GRAVEL

PROPOSED WATER MAIN

8" SDR 21 PVC

METER PIT

2-INCH CONDUIT TO PUMP HOUSE

6" DRAIN LINE TO CULVERT DRAIN

END OF DIVISION 1
BEGIN OF DIVISION 2
8" MJ-FL GATE VALVE / OPERATING NUT

8" C-900 PVC

EDGE OF PAVEMENT

HATCHER LANE

15" HDPE CULVERT

DATE: 10/04/19
SCALE: 1" = 100'
DRAWN BY: M.S.
APPROVED BY: GOOCH
FILENAME: 1829SDANCON

PHASE 1A WATER PROJECT
HATHCER LANE
MASTER METER
MCKINNEY, LINCOLN COUNTY, KENTUCKY

CLIENT:
MCKINNEY WATER DISTRICT
2900 MIDDLEBURG RD
MCKINNEY, KY 40448

P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40484
PHONE (606) 365-8362
FAX (606) 365-1097



| REVISION(S) |
|-------------|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |