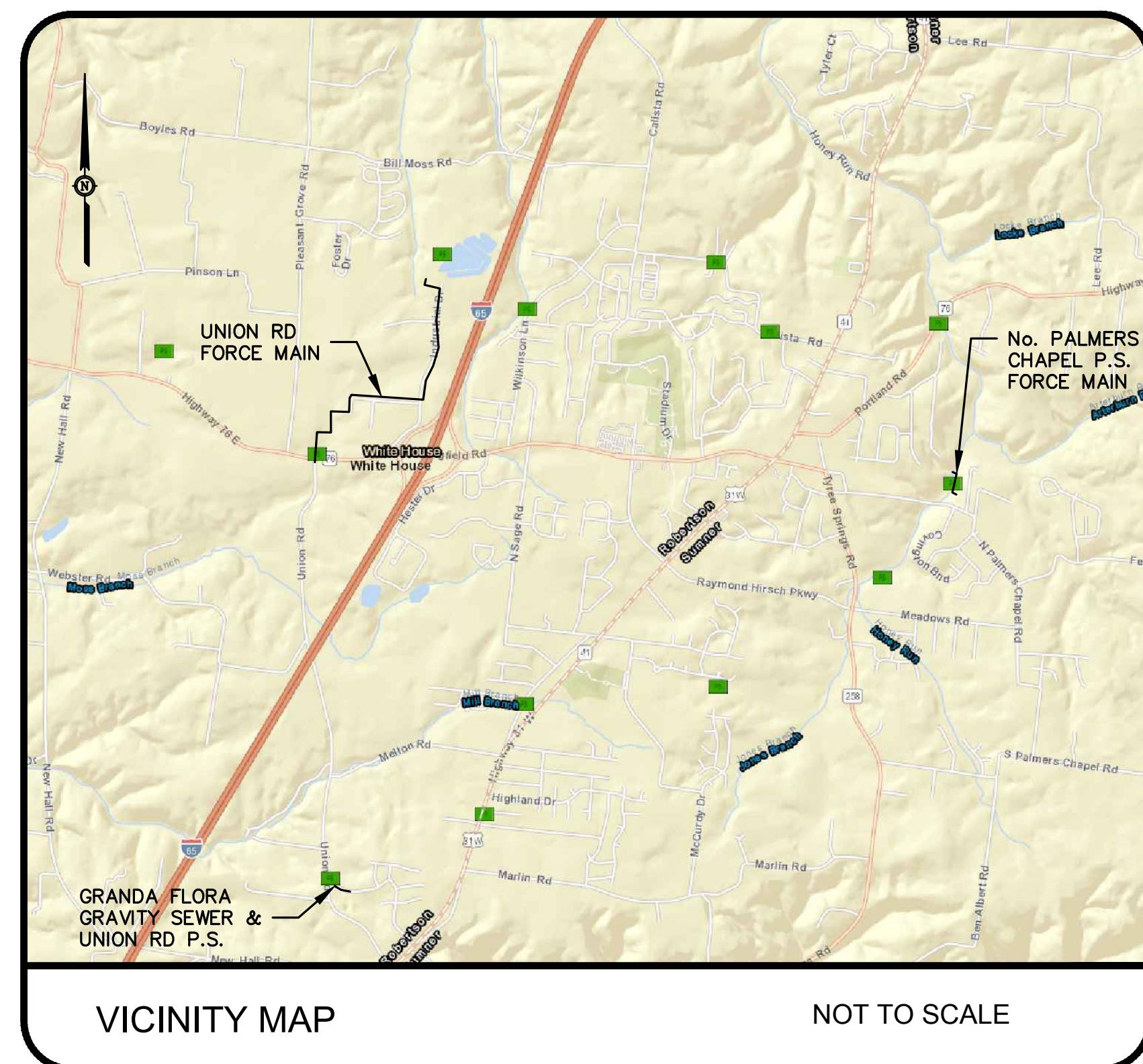




# 2018 CITY-WIDE SEWER IMPROVEMENTS

# CITY OF WHITE HOUSE COUNTY, TENNESSEE



## SCHEDULE OF DRAWINGS

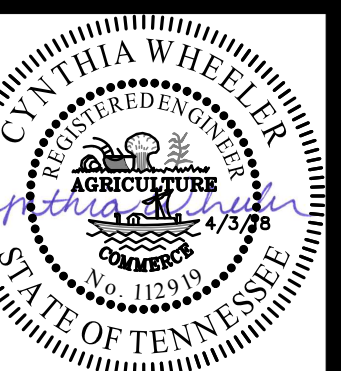
- G-001 . . . . . COVER SHEET
- G-002 . . . . . GENERAL NOTES
- C-101 . . . . . GRANDA FLORA STA 0+00-3+59.38 & UNION RD PUMP STA.
- C-201 . . . . . UNION RD FORCE MAIN 0+00-30+00
- C-202 . . . . . UNION RD FORCE MAIN 30+00-56+00
- C-203 . . . . . UNION RD FORCE MAIN 56+00-E.O.L.
- C-301 . . . . . No. PALMER'S CHAPEL PUMP STA & FORCE MAIN 0+00-E.O.L.
- C-501 . . . . . DETAILS
- C-502 . . . . . DETAILS
- C-601 . . . . . SWPPP GENERAL NOTES
- C-602 . . . . . SWPPP DETAILS
- C-701 . . . . . SWPPP UNION RD
- C-702 . . . . . SWPPP UNION RD
- C-703 . . . . . SWPPP GRANDA FLORA & No. PALMER'S CHAPEL

APRIL 2018

City of White House, Tennessee  
105 College Street  
White House, Tennessee 37188  
ph. 615-672-4350  
http://cityofwhitehouse.com

2018 CITY-WIDE  
SEWER IMPROVEMENTS  
CITY OF WHITE HOUSE

SHEET  
G-001



NO.	DATE	BY	REVISION DESCRIPTION

**EXISTING CONDITIONS LEGEND**

□	TELEPHONE PEDESTAL	▲	CALCULATED POINT
□	ELECTRIC PEDESTAL	▲	1/2" REBAR SET WITH CAP
□	CABLE TV PEDESTAL	■	CONCRETE MONUMENT
—	SIGN	□	RIGHT-OF-WAY MONUMENT
—	UNDERGROUND CABLE TV SIGN	□	D.O.T. CONTROL POINT
—	UNDERGROUND FIBER OPTIC CABLE SIGN	●	REBAR FOUND
—	UNDERGROUND TELEPHONE CABLE SIGN	●	PK NAIL FOUND / SET
—	UNDERGROUND GAS LINE SIGN	●	SPINDLE FOUND / SET
—	UNDERGROUND ELECTRIC LINE SIGN	●	HUB & TACK SET
○	LIGHT POLE	●	CONTROL POINT NAIL SET / FOUND
○	UTILITY POLE	●	CONTROL POINT/NAIL SET GPS
○	GUY WIRE ANCHOR	●	CONTROL POINT TEMPORARY MARK
○	MANHOLE	●	STAKE FOUND
○	SANITARY SEWER MANHOLE	●	INTERSTATE HIGHWAY
○	STORM DRAIN MANHOLE	●	U.S. HIGHWAY
○	COMMUNICATION MANHOLE	●	FINISHED FLOOR ELEVATION
○	ELECTRICAL MANHOLE	●	MONITORING WELL
○	JUNCTION BOX	●	PIEZOMETER
○	SPIGOT/YARD HYDRANT	●	LANDFILL GAS MONITORING PROBE
○	SEWER CLEAN-OUT	●	SURFACE WATER SAMPLING LOCATION
○	ELECTRIC SERVICE STUB-OUT	●	LANDFILL GAS VENT
○	GAS SERVICE STUB-OUT	●	LANDFILL GAS COLLECTION WELLHEAD
○	CATCH BASIN	●	POTABLE WATER WELL
○	CURB INLET	●	MAILBOX OR PAPER BOX
○	WATER METER	●	POSTAL DROP BOX
○	FIRE HYDRANT	●	SATELLITE DISH
○	WATER VALVE	●	STATUE, BIRD BATHS, ETC.
○	BLOW OFF VALVE	●	TREES
○	GAS METER	●	SHRUBS / BUSHES
○	GAS VALVE		
○	IRRIGATION CONTROL VALVE		
○	POST INDICATOR VALVE		
○	ELECTRIC JUNCTION BOX OR OUTLET		
—	CULVERT		
—	FENCE		
—	SILT FENCE		
—	GUARD RAIL		
—	APPROXIMATE LOCATION OF EXISTING SEWER LINES		
—	APPROXIMATE LOCATION OF EXISTING WATER LINES		
—	APPROXIMATE LOCATION OF EXISTING GAS LINES		
—	TOP & TOE LINES		
—	DITCH LINES		
—	APPROXIMATE LOCATION OF UNDERGROUND CABLE TV LINE		
—	APPROXIMATE LOCATION OF OVERHEAD CABLE TV LINE		
—	APPROXIMATE LOCATION OF UNDERGROUND FIBER OPTIC CABLE LINE		
—	APPROXIMATE LOCATION OF UNDERGROUND ELECTRIC LINE		
—	APPROXIMATE LOCATION OF OVERHEAD ELECTRIC LINE		
—	APPROXIMATE LOCATION OF UNDERGROUND TELEPHONE LINES		
—	APPROXIMATE LOCATION OF OVERHEAD TELEPHONE LINES		
—	RIGHT-OF-WAY		
—	TREELINE		
—	SHRUBLINE		
—	PROPERTY LINE NOT SURVEYED		
—	ROCKLINE		
—	STREAM LINE		
—	CENTERLINE ROADS		
—	CENTERLINE OTHER THAN ROADS		
—	SWAMPLINE/WETLANDS		
—	IRON PIN SET		
—	REBAR FOUND		
—	OTIPF		
—	CTIPF		
—	CMU		
—	R/W		
—	C		
—	POB		
—	CP		
—	PB		
—	DB		
—	L		
—	BLDG		
—	PIP		
—	CMP		
—	CONC		
—	CMU		
—	CPP		
—	DIP		
—	E&T		
—	FOC		
—	GIP		
—	O/H		
—	RCP		
—	U/G		
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—	PG		
—	REF		
—	DOT		
—	NGS		
—	TSP		

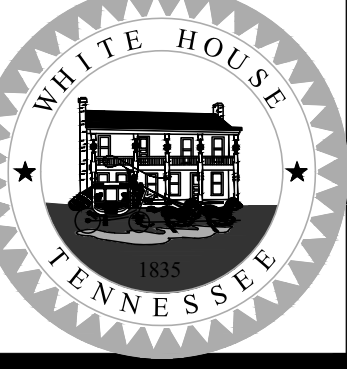
**GENERAL CONSTRUCTION NOTES**

- FINISH GRADE TOLERANCES SHALL BE AS NOTED IN THE SPECIFICATION. THE ENGINEER MAY MAKE GRADE CHANGES AS REQUIRED IN THE FIELD WITHOUT EFFECTING THE UNIT BID PRICE FOR UNCLASSIFIED EXCAVATION.
- UNLESS OTHERWISE STATED, ALL FILL AREAS SHALL BE CONSTRUCTED IN LAYERS OF A 8" MAXIMUM THICKNESS, WITH WATER ADDED OR SOIL CONDITIONED TO THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE ENGINEER OR CITY REPRESENTATIVE AND COMPACTED WITH A SHEEP'S FOOT ROLLER TO A COMPACTION EQUAL TO OR GREATER THAN 95% (100% IN THE TOP 2' OF THE SUB GRADE BELOW ROADWAYS AND PARKING LOTS) OF THE DENSITY OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH THE STANDARD PROCTOR METHOD OF MOISTURE-DENSITY RELATIONSHIP TEST, ASTM D698 OR AASHTO-99 UNLESS SPECIFIED IN OTHER SPECIFICATIONS.
- ENTIRE AREA TO BE GRADED SHALL BE CLEARED AND GRUBBED. NO FILL SHALL BE PLACED ON ANY AREA NOT CLEARED AND GRUBBED.
- ALL SOIL EROSION CONTROL MEASURES REQUIRED BY THE GRADING PLAN SHALL BE PERFORMED PRIOR TO GRADING, CLEARING OR GRUBBING. ALL EROSION CONTROL DEVICES SUCH AS SILT FENCES ETC. SHALL BE MAINTAINED IN WORKABLE CONDITION FOR THE LIFE OF THE PROJECT AND SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT ONLY ON THE ENGINEER/CITY REPRESENTATIVE'S APPROVAL. IF DURING THE LIFE OF THE PROJECT, A STORM CAUSES SOIL EROSION WHICH CHANGES FINISH GRADES OR CREATES "GULLIES" AND "WASHED AREAS", THESE SHALL BE REPAIRED AT NO EXTRA COST, AND ALL SILT WASHED OFF OF THE PROJECT SITE ONTO ADJACENT PROPERTY SHALL BE REMOVED AS DIRECTED BY THE ENGINEER/CITY REPRESENTATIVE AT NO EXTRA COST, THE CONTRACTOR SHALL ADHERE TO ANY APPROVED EROSION CONTROL PLANS WHETHER INDICATED IN THE CONSTRUCTION PLANS OR UNDER SEPARATE COVER.
- DISPOSABLE MATERIAL
  - A. CLEARING AND GRUBBING WASTES SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE, UNLESS SPECIFIED OTHERWISE.
  - B. SOLID WASTES TO BE REMOVED, SUCH AS SIDEWALKS, CURBS, PAVEMENT, ETC., MAY BE PLACED IN SPECIFIC DISPOSAL AREAS DELINEATED ON THE PLANS OR REMOVED FROM THE SITE AS REQUIRED BY THE SPECIFICATIONS. THIS MATERIAL SHALL HAVE A MINIMUM COVER OF 2'. THE CONTRACTOR SHALL MAINTAIN SPECIFIED COMPACTION REQUIREMENTS IN THESE AREAS. WHEN DISPOSAL SITES ARE NOT PROVIDED, THE CONTRACTOR SHALL REMOVE THIS WASTE FROM THE SITE AND PROPERLY DISPOSE OF IT AT HIS EXPENSE.
  - C. ABANDONED UTILITIES, SUCH AS CULVERTS, WATER PIPE, HYDRANTS, CASTINGS, PIPE APPURTENANCES UTILITY POLES, ETC., SHALL BE THE PROPERTY OF THE SPECIFIC UTILITY AGENCY, OR COMPANY HAVING JURISDICTION. BEFORE THE CONTRACTOR CAN REMOVE, DESTROY, SALVAGE, REUSE, SELL OR STORE FOR HIS OWN USE ANY ABANDONED UTILITY, HE MUST PRESENT TO THE OWNER WRITTEN PERMISSION FROM THE UTILITY INVOLVED.
- IN THE EVENT EXCESSIVE GROUNDWATER OR SPRINGS ARE ENCOUNTERED WITH THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL NECESSARY UNDER DRAINS AND STONE AS DIRECTED BY THE ENGINEER. ALL WORK SHALL BE PAID BASED UPON UNITY BIDS, UNLESS SPECIFIED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ADJUSTMENT OF ALL UTILITY SURFACE ACCESSSES WHETHER HE PERFORMS THE WORK OR A UTILITY COMPANY PERFORMS THE WORK.
- THE CONTRACTOR SHALL CONTROL ALL "DUST" BY PERIODIC WATERING AND SHALL PROVIDE ACCESS AT ALL TIMES FOR PROPERTY OWNERS WITHIN THE PROJECT AREA AND FOR EMERGENCY VEHICLES. ALL OPEN DITCHES AND HAZARDOUS AREAS SHALL BE CLEARLY MARKED IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE FINISHED SURFACE SHALL BE TO GRADE AND SMOOTH, FREE OF ALL ROCKS LARGER THAN 3", EQUIPMENT TRACKS, DIRT CLODS, BUMPS, RIDGES AND GOUGES PRIOR TO SEEDING; THE SURFACE SHALL BE LOOSENEED TO A DEPTH OF ±4"-6" TO ACCEPT SEED. THE CONTRACTOR SHALL NOT PROCEED WITH SEEDING OPERATIONS WITHOUT FIRST OBTAINING THE ENGINEER/CITY REPRESENTATIVE'S APPROVAL OF THE GRADED SURFACE. HAND SEEDING SHALL BE AUTHORIZED ON AN AREA BY AREA APPROVAL BY THE ENGINEER/CITY REPRESENTATIVE.
- CONTRACTOR SHALL VERIFY ALL ELEVATIONS BEFORE INSTALLATION OF FACILITIES.
- CONTRACTOR SHALL NOTIFY THE PROPER LOCAL AUTHORITIES 24 HOURS PRIOR TO ANY ROAD BEING CLOSED FOR CONSTRUCTION, INCLUDING BUT NOT LIMITED TO LOCAL NEWSPAPER, RADIO STATION, FIRE DEPARTMENT, CITY POLICE DEPARTMENT, AMBULANCE, AND COUNTY EMERGENCY AGENCY, ALL TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION.
- CONTRACTOR SHALL NOTIFY HOMEOWNER'S ASSOCIATION, AFFECTED HOMEOWNERS, AND SCHOOLS OF ANY WORK IN THE RIGHT-OF-WAYS 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL NOTIFY THE CITY AFTER EXISTING BURIED UTILITIES HAVE BEEN LOCATED AND 24 HOURS PRIOR TO CONSTRUCTION.

**SEWER CONSTRUCTION NOTES:**

- ALL CONSTRUCTION OUTSIDE RIGHTS-OF-WAY SHALL TAKE PLACE WITHIN THE PERMANENT AND TEMPORARY EASEMENTS SHOWN.
- CONTRACTOR SHALL REPAIR ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN THE ORIGINAL SITE, OR AS NOTED.
- LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATED ONLY, EXACT LOCATIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AT LEAST THREE DAYS PRIOR TO CONSTRUCTION, CONTRACTOR MUST NOTIFY EXISTING UTILITY OWNERS, CALL BEFORE YOU DIG, TENNESSEE ONE CALL (811).
- ALL WORK NEAR AND AROUND WATERWAYS MUST UNIFORM TO THE RULES OF THE STATE OF TENNESSEE.
- CONTRACTOR MUST PROVIDE EROSION CONTROL DEVICES TO CONTROL RUNOFF FROM THE CONSTRUCTION SITE. CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES THAT MAY BE LEVIED DUE TO POLLUTION CREATED DURING CONSTRUCTION.
- CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE, AND LOCAL HEALTH AND SAFETY REGULATIONS PERTAINING TO CONSTRUCTION OPERATIONS.
- SEWER LINES SHALL HAVE 3'-0" MINIMUM COVER UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- WATER AND SEWER LINES SHALL HAVE A MINIMUM 10' HORIZONTAL SEPARATION OR A MINIMUM 18" VERTICAL SEPARATION WITH THE WATER OVER SEWER, OR BOTH WATER AND SEWER LINES SHALL BE DUCTILE IRON PIPE 10' EITHER SIDE OF THE CROSSING.
- SANITARY AND STORM SEWER LINES SHALL HAVE A MINIMUM 18" VERTICAL SEPARATION
- UNLESS OTHERWISE NOTED, ALL PIPE SHALL BE INSTALLED WITH PUSH-ON JOINTS.
- LEGAL DESCRIPTIONS FOR PROPOSED EASEMENTS BY OTHERS.
- LOCATIONS SHOWN FOR SANITARY SEWER SERVICES ARE ASSUMED. COORDINATE LOCATIONS OF ALL PROPOSED SEWER SERVICE CONNECTIONS WITH PROPERTY OWNER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL FIELD VERIFY ALL PROPOSED MANHOLE TOP ELEVATIONS AND EXISTING MANHOLE INVERTS PRIOR TO CONSTRUCTION AND NOTIFY CITY REPRESENTATIVE OF ANY DISCREPANCIES. CONTRACTOR SHALL ADJUST ALL PROPOSED SEWER STRUCTURES TO MATCH FINISHED PAVEMENT/GRADE ELEVATIONS. COST OF RAISING STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO OTHER WORK ON THE PROJECT.
- MANHOLES AND CASTINGS SHALL MEET THE REQUIREMENTS OF CITY AS WELL AS THE PROJECT SPECIFICATIONS.
- ALL FENCE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIALS IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE. THIS DOES NOT INCLUDE ADDITIONAL FENCE AS SHOWN ON THE PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING ROADS DURING CONSTRUCTION AND SHALL REPAIR ROADS PER REQUIREMENTS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION OR CITY OF WHITE HOUSE. SAND OR A SIMILAR MATERIAL APPROVED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION SHALL BE PLACED AS A PROTECTIVE BARRIER BETWEEN TRACK EQUIPMENT AND THE ROAD AND CLEANED UP PROPERLY AFTER CONSTRUCTION. A MINIMUM OF 2" OF SAND SHALL BE PLACED ON THE ROAD PRIOR TO STOCKPILING SPOIL MATERIAL ON THE ROAD SURFACE TO FACILITATE CLEANUP.

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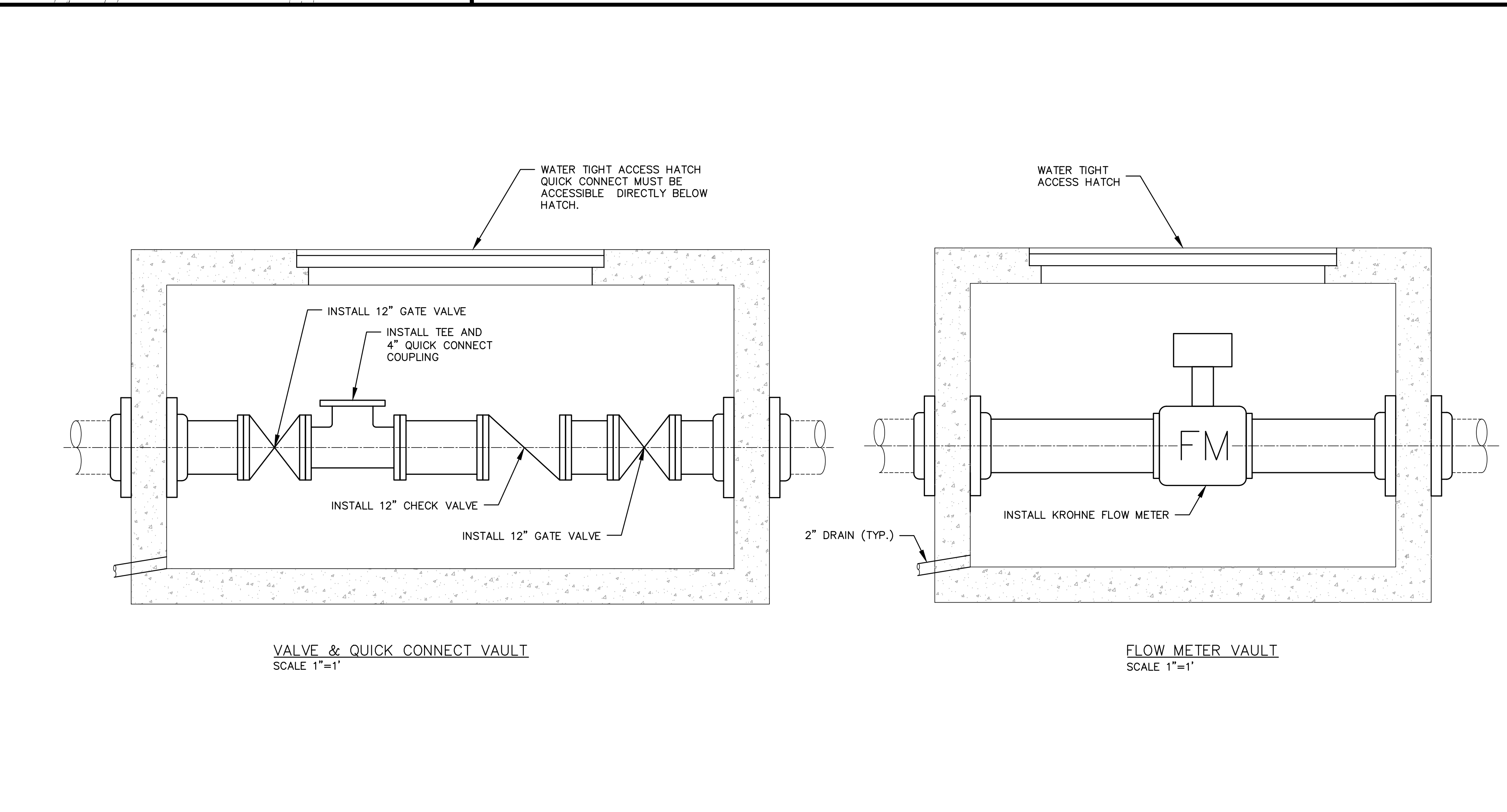
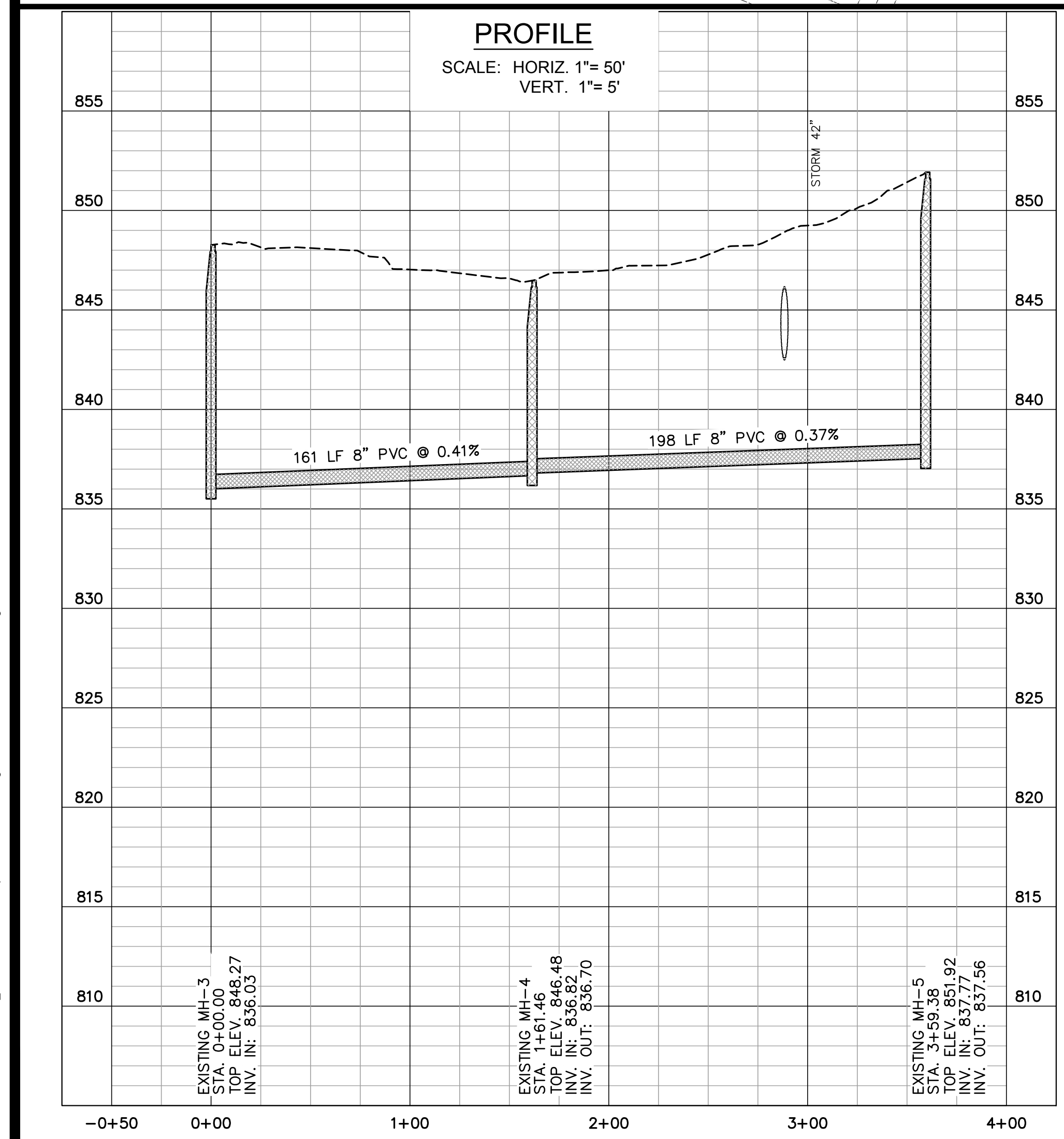
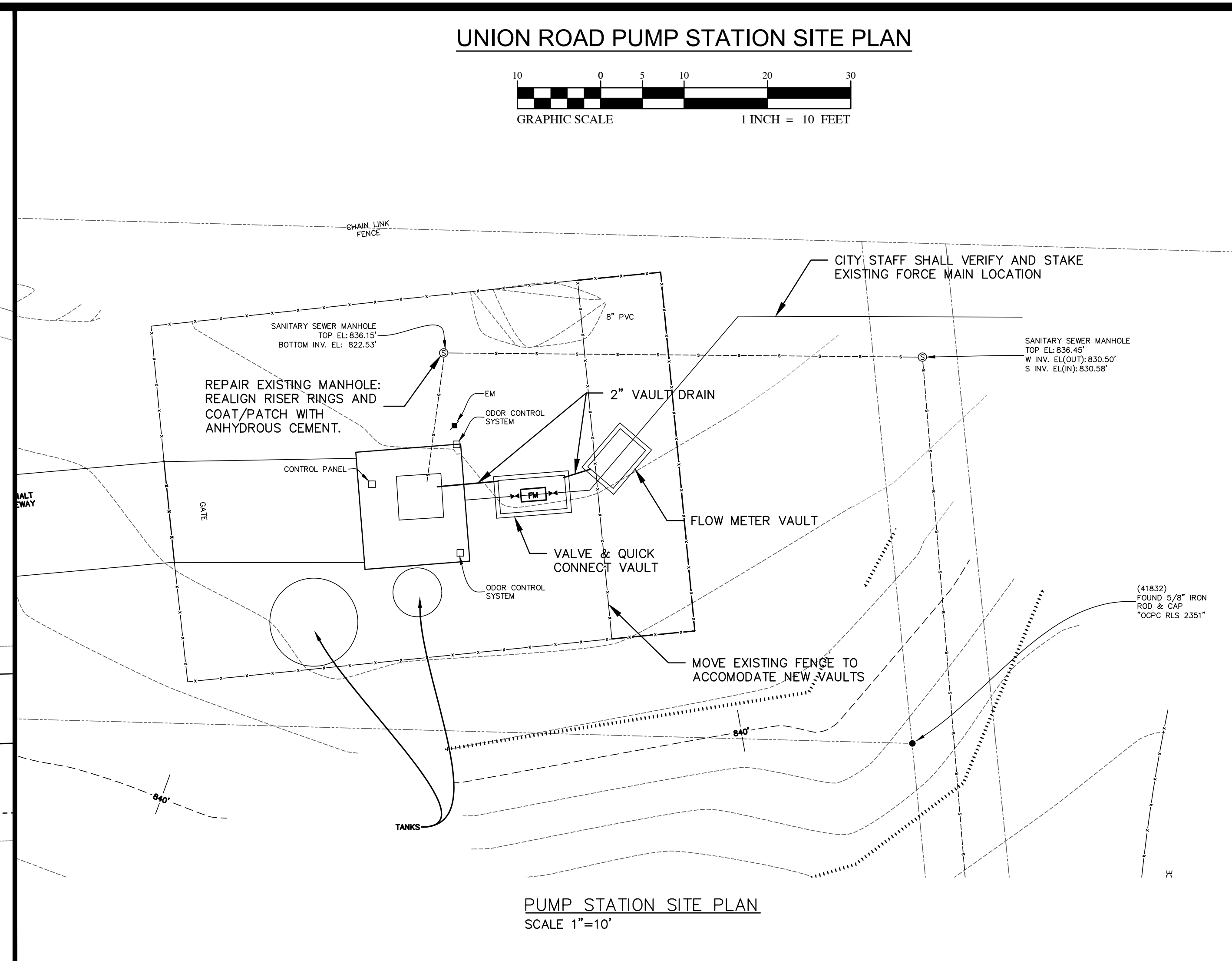
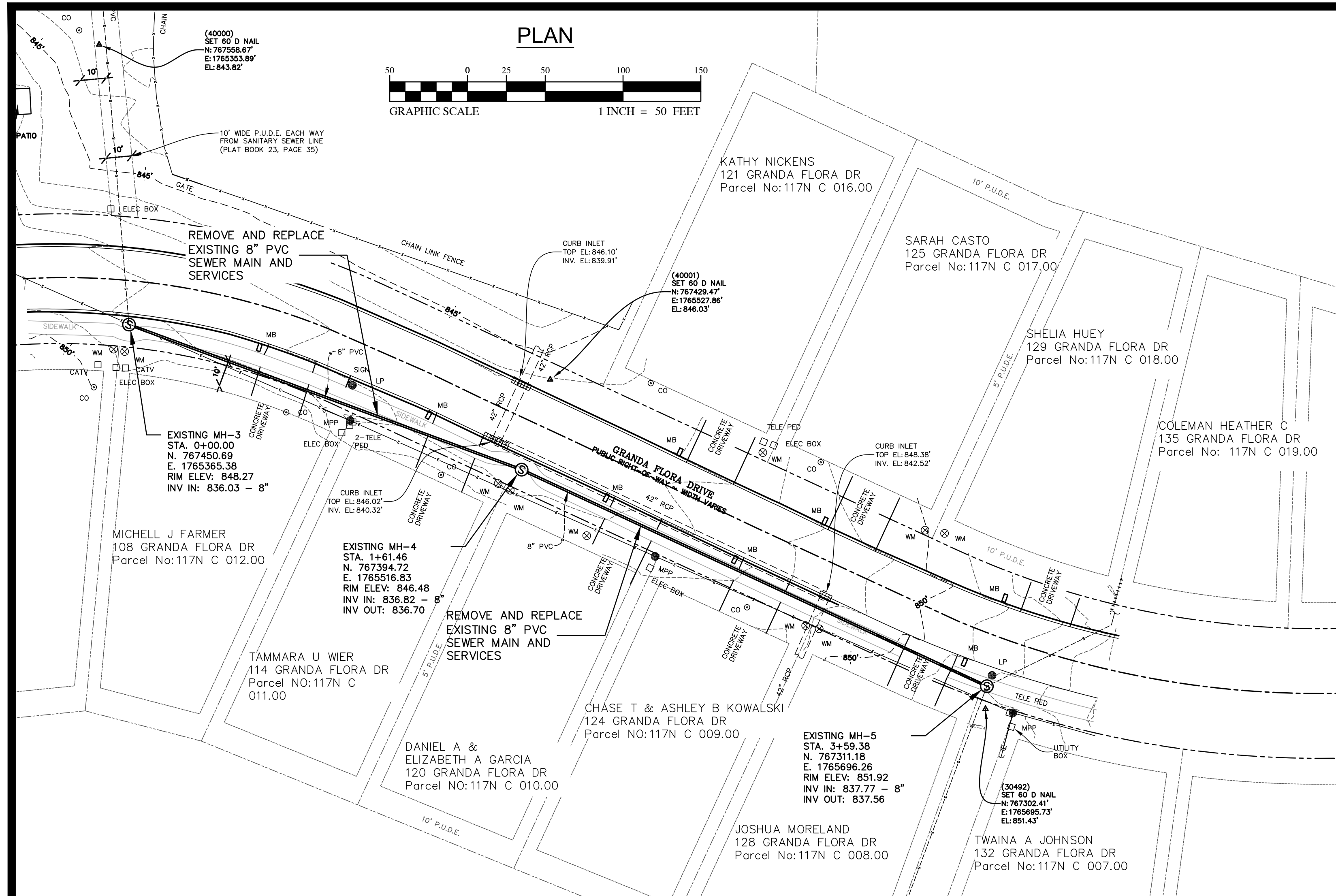
**2018 CITY-WIDE  
 SEWER SYSTEM IMP  
 GENERAL NOTES**

**SHEET  
 G-002**



NO.	DATE	BY	REVISION DESCRIPTION

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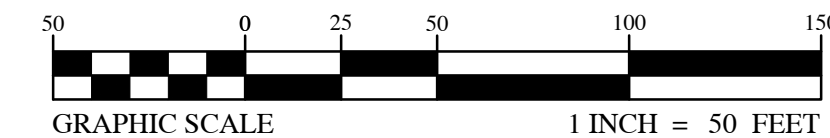
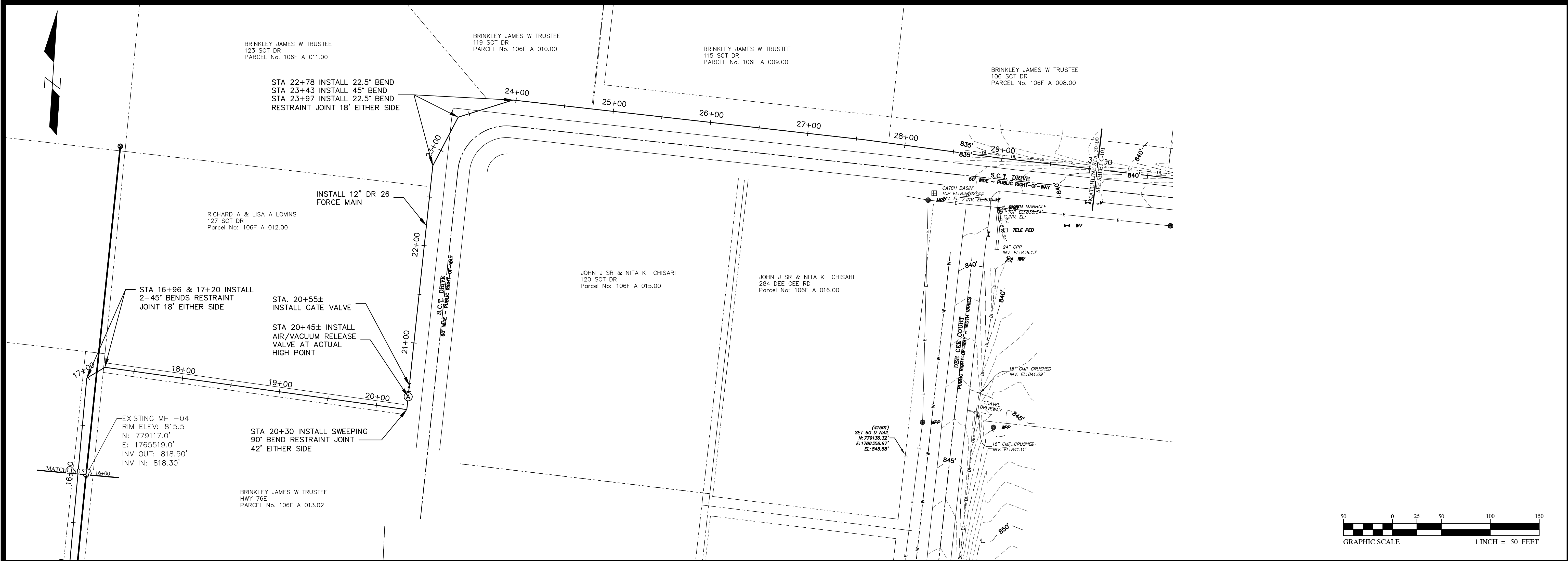
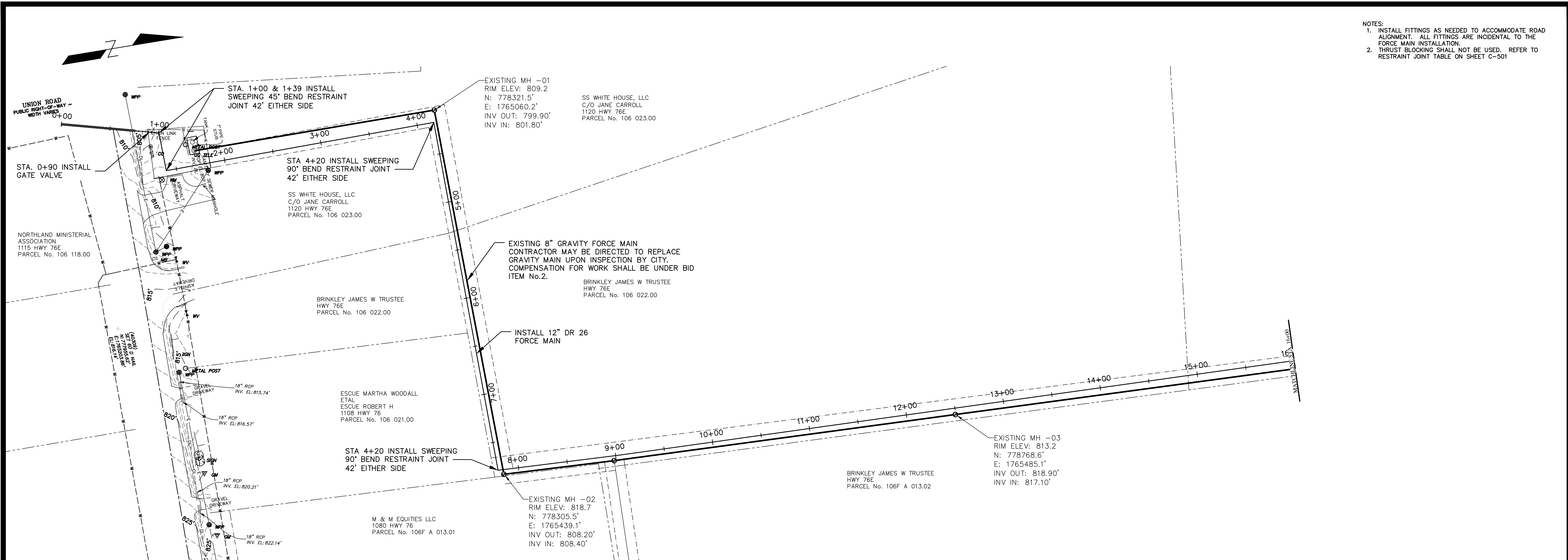
**GRANDA FLORA**  
**STA. 0+00-3+59.38**  
**& UNION RD PUMP STA.**

**SHEET**  
**C-101**

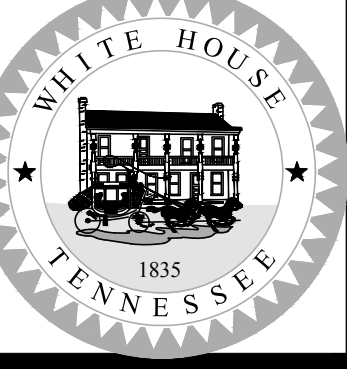
NO.	DATE	REVISION DESCRIPTION

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- NOTES:  
 1. INSTALL FITTINGS AS NEEDED TO ACCOMMODATE ROAD ALIGNMENT. ALL FITTINGS ARE INCIDENTAL TO THE FORCE MAIN INSTALLATION.  
 2. THRUST BLOCKING SHALL NOT BE USED. REFER TO RESTRAINT JOINT TABLE ON SHEET C-501

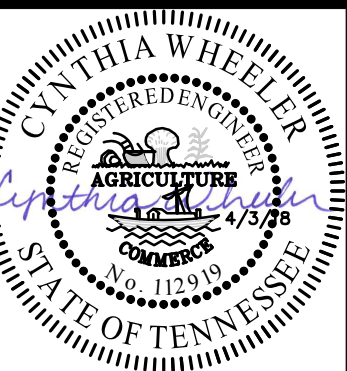


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**UNION RD SEWER IMP  
 FORCE MAIN PLAN  
 STA. 0+00 - 30+00**

**SHEET  
 C-201**

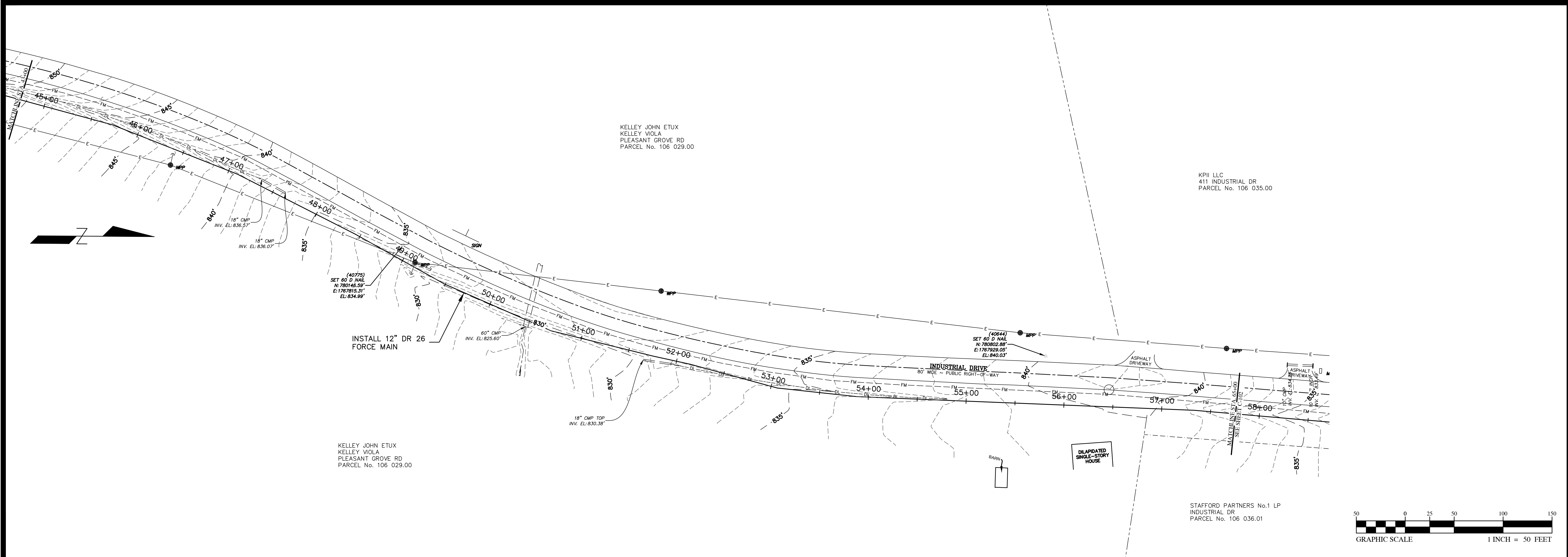
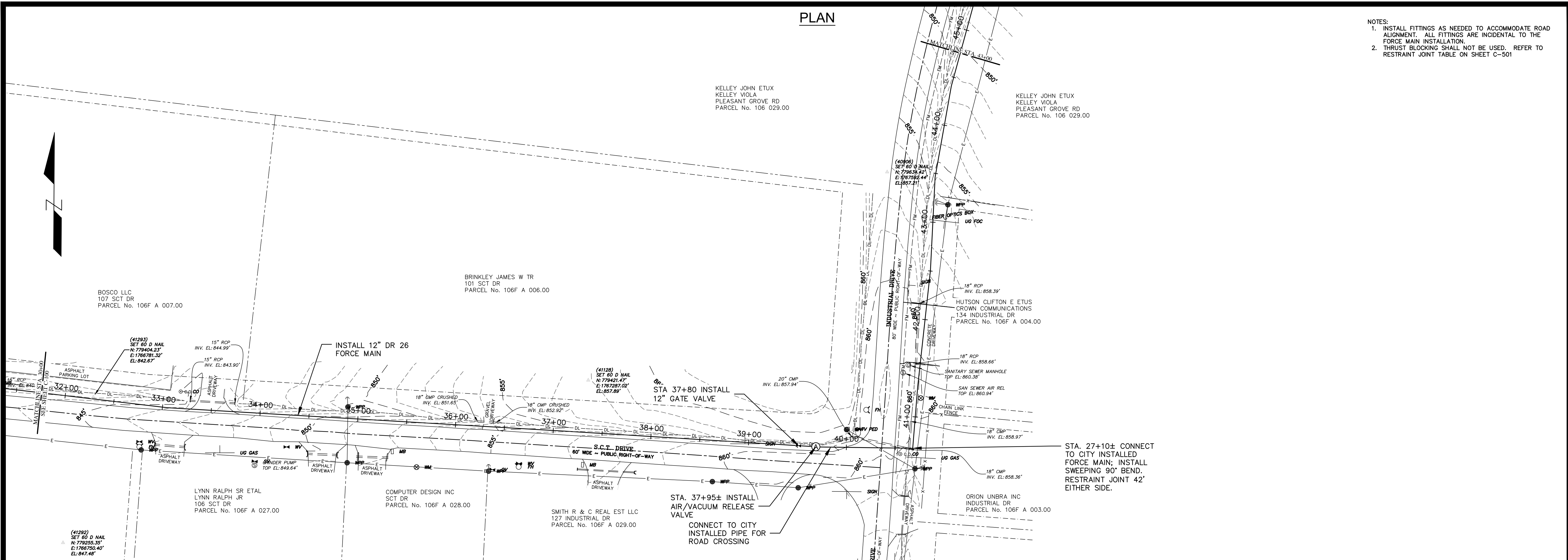


NO.	DATE	BY	REVISION DESCRIPTION

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PLAN

- NOTES:  
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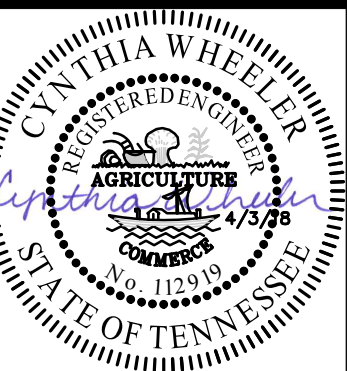


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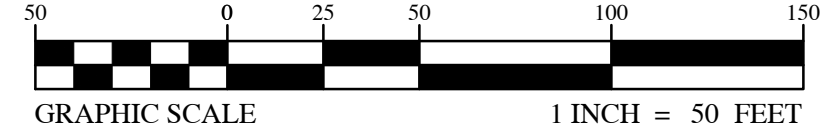


UNION RD SEWER IMP  
 PLAN & PROFILE  
 STA. 30+00-56+00

SHEET  
 C-202

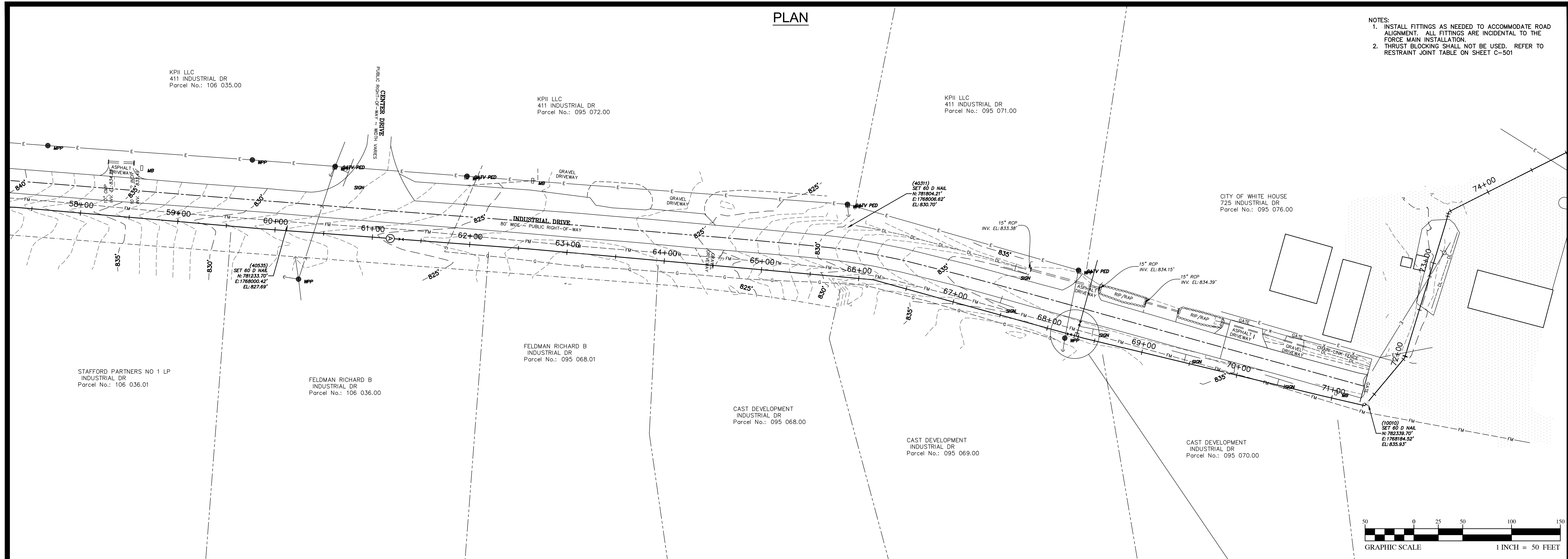


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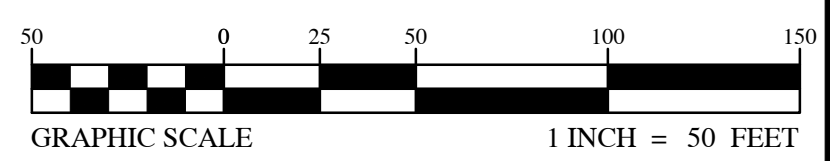


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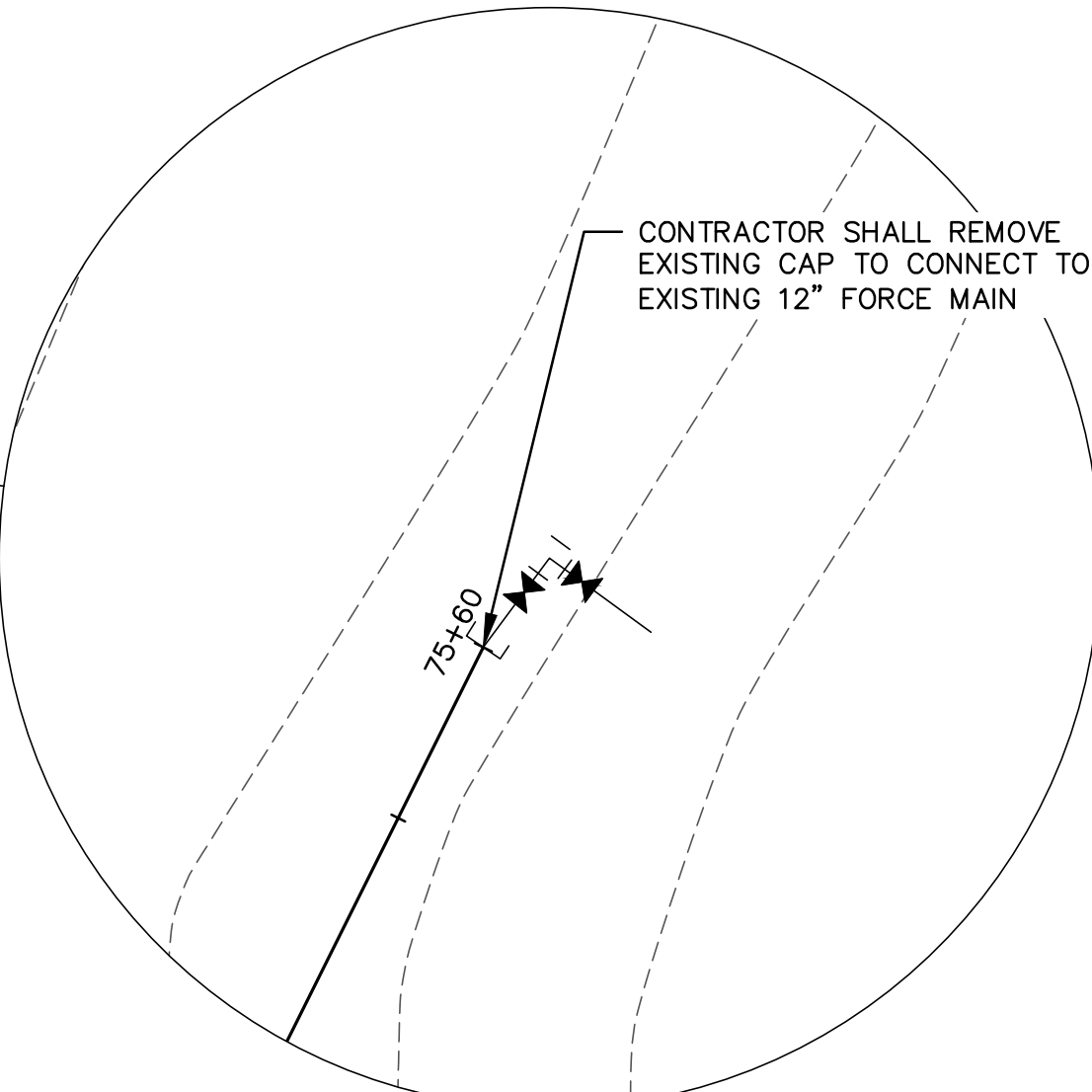
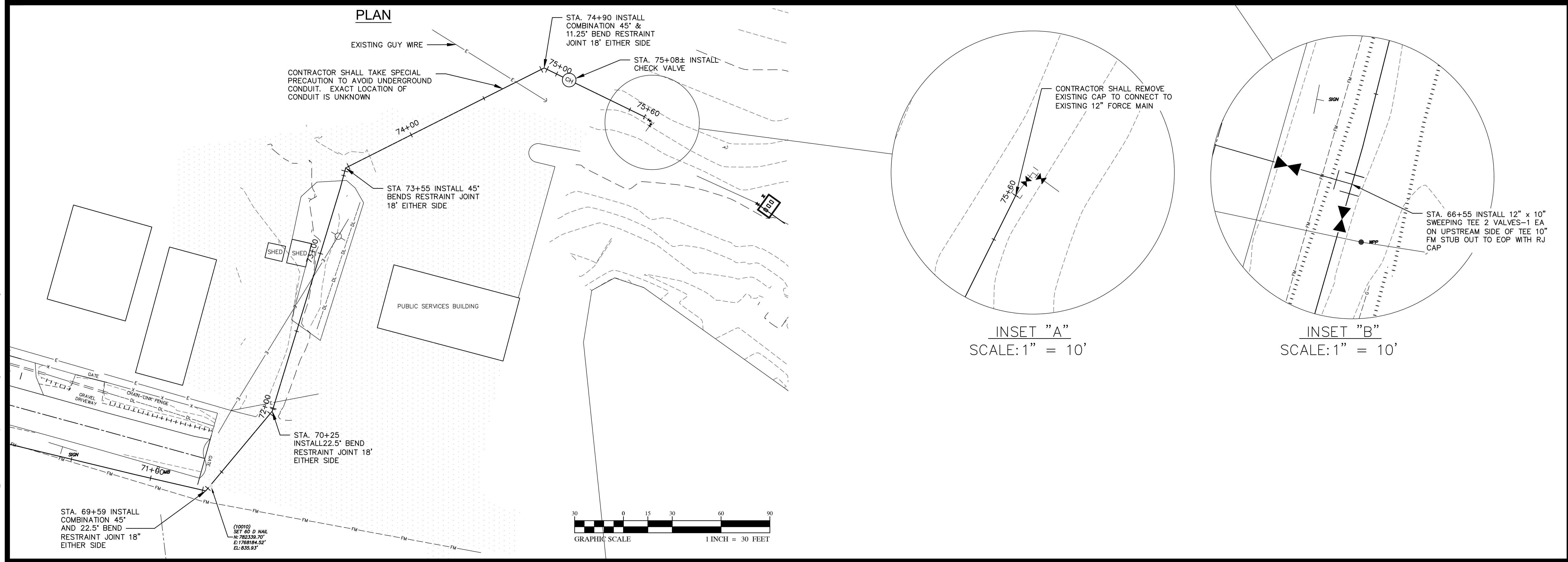
PLAN



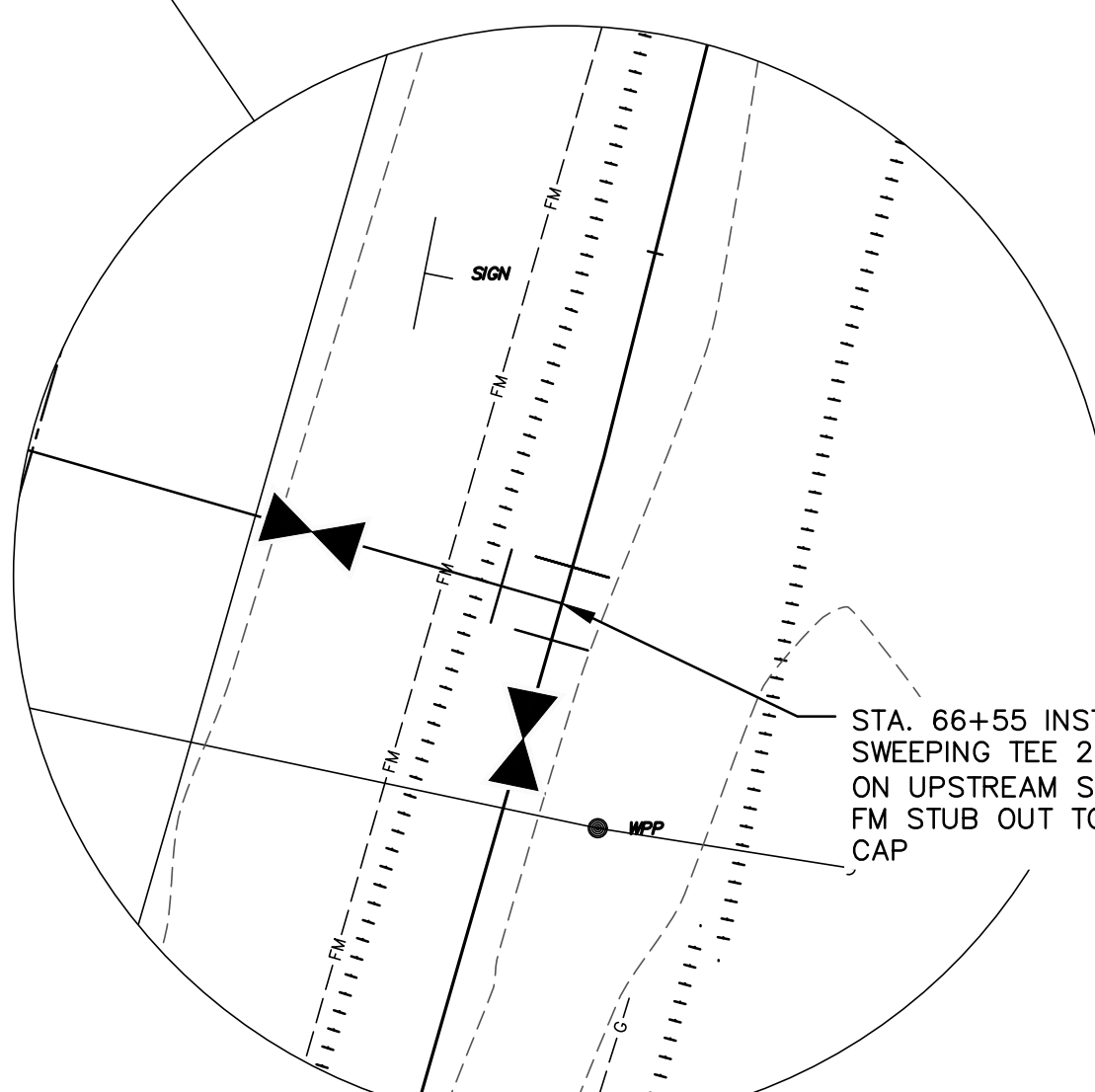
- NOTES:
1. INSTALL FITTINGS AS NEEDED TO ACCOMMODATE ROAD ALIGNMENT. ALL FITTINGS ARE INCIDENTAL TO THE FORCE MAIN INSTALLATION.
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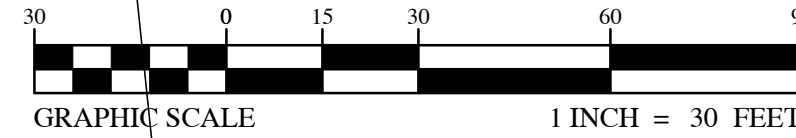
PLAN



INSET "A"  
SCALE: 1" = 10'



INSET "B"  
SCALE: 1" = 10'

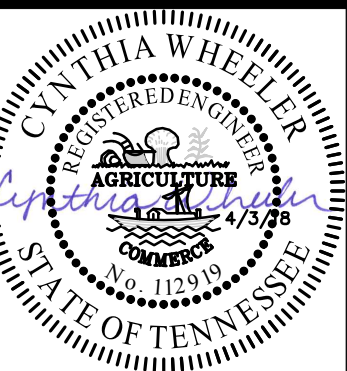


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UNION RD SEWER IMP  
PLAN & PROFILE  
STA. 56+00-E.O.L.

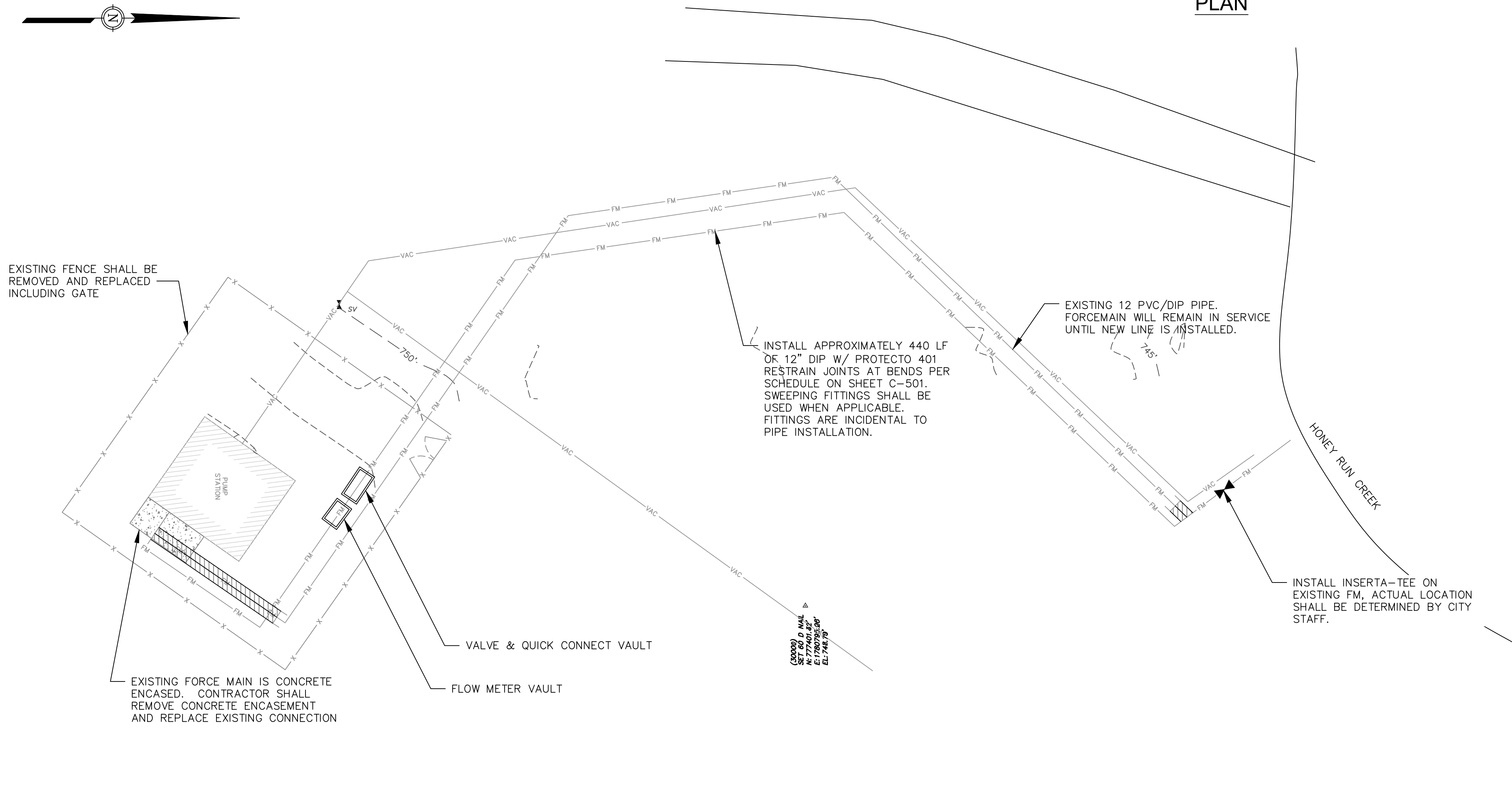
SHEET  
C-203



NO.	DATE	BY	REVISION DESCRIPTION

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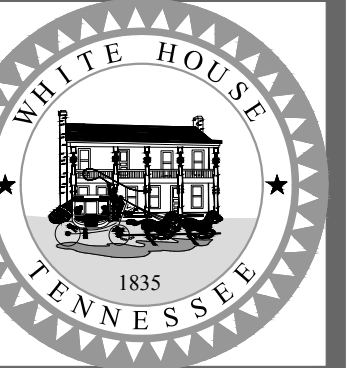
PLAN



NOTES:

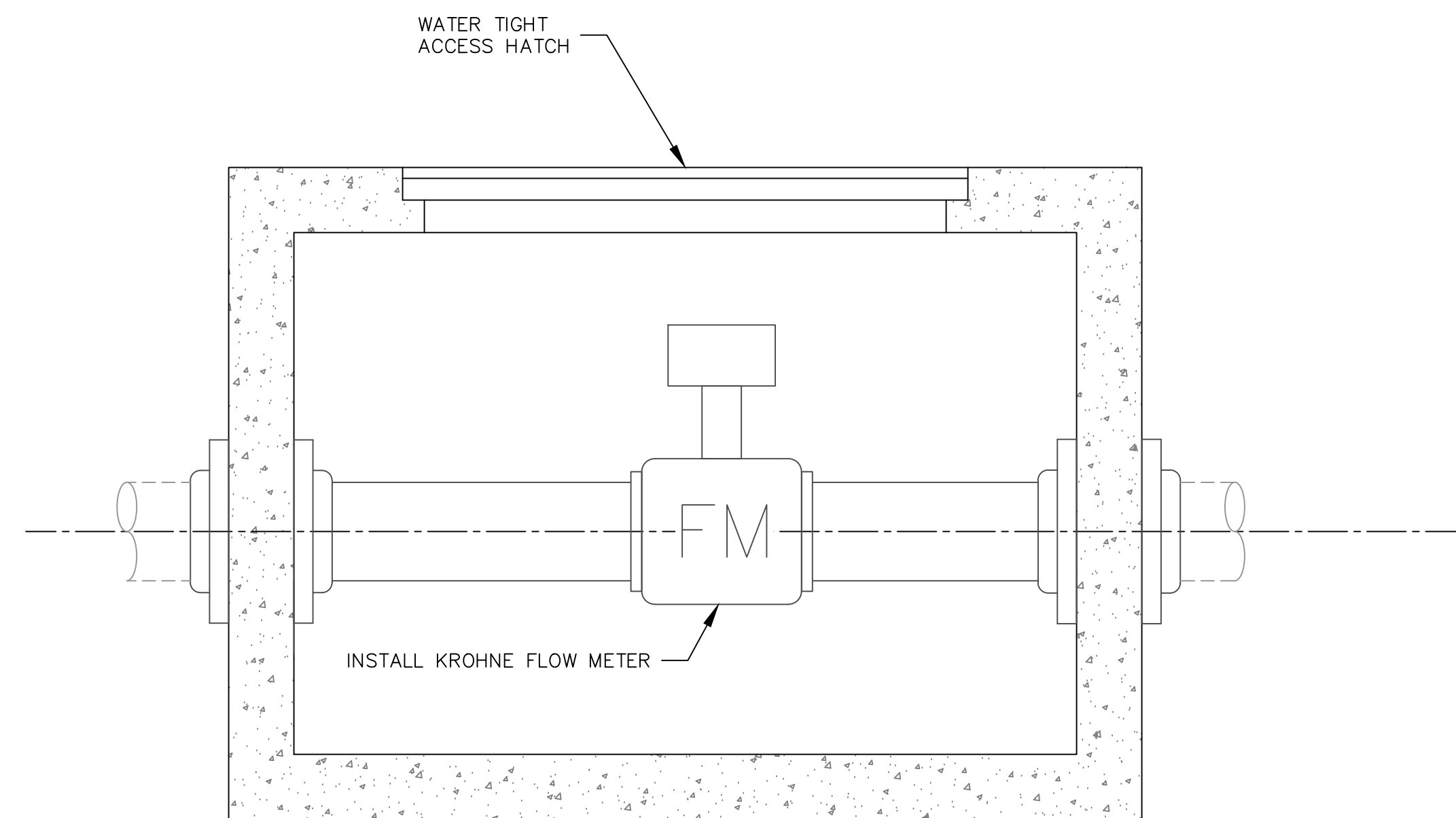
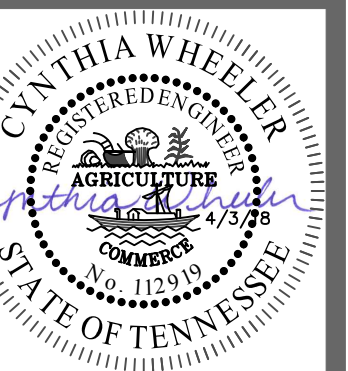
1. CITY STAFF WILL POT HOLE AND LOCATED EXISTING FORCE MAIN AND VACUUM LINE LOCATION. CONTRACTOR WILL NOT BE RESPONSIBLE FOR LAYOUT OF THE NEW FORCE MAIN. THAT FUNCTION SHALL BE COMPLETED BY CITY STAFF PRIOR TO GROUND BREAKING.
2. FORCE MAIN OUT OF BUILDING HAS BEEN CONCRETE CAPPED IN APPROXIMATELY 6' X 8' X 6' CONCRETE BLOCK. APPROXIMATE LOCATION OF PIPE IS KNOWN. CONTRACTOR SHALL REMOVE CONCRETE CAP FROM PIPE WITHOUT DAMAGE TO BUILDING OR PIPE. PIPE REPLACEMENT MUST BE ACCOMPLISHED IN A SIX (6) HOUR WINDOW. THE PUMP STATION WILL BE COMPLETELY SHUT OFF AT THAT TIME.
3. INSTALL FITTINGS AS NEEDED TO ACCOMMODATE ROAD ALIGNMENT. ALL FITTINGS ARE INCIDENTAL TO THE FORCE MAIN INSTALLATION.
4. THRUST BLOCKING SHALL NOT BE USED. REFER TO RESTRAINT JOINT TABLE ON SHEET C-501
5. CONTRACTOR SHALL RESTORE ASPHALTIC PAVEMENT DAMAGED DURING CONSTRUCTION. CONTRACTOR WILL BE COMPENSATED UNDER BID ITEM 9 WITH EQUIVALENT LINEAR FOOTAGE OF 5' WIDTH X LINEAR FOOTAGE.

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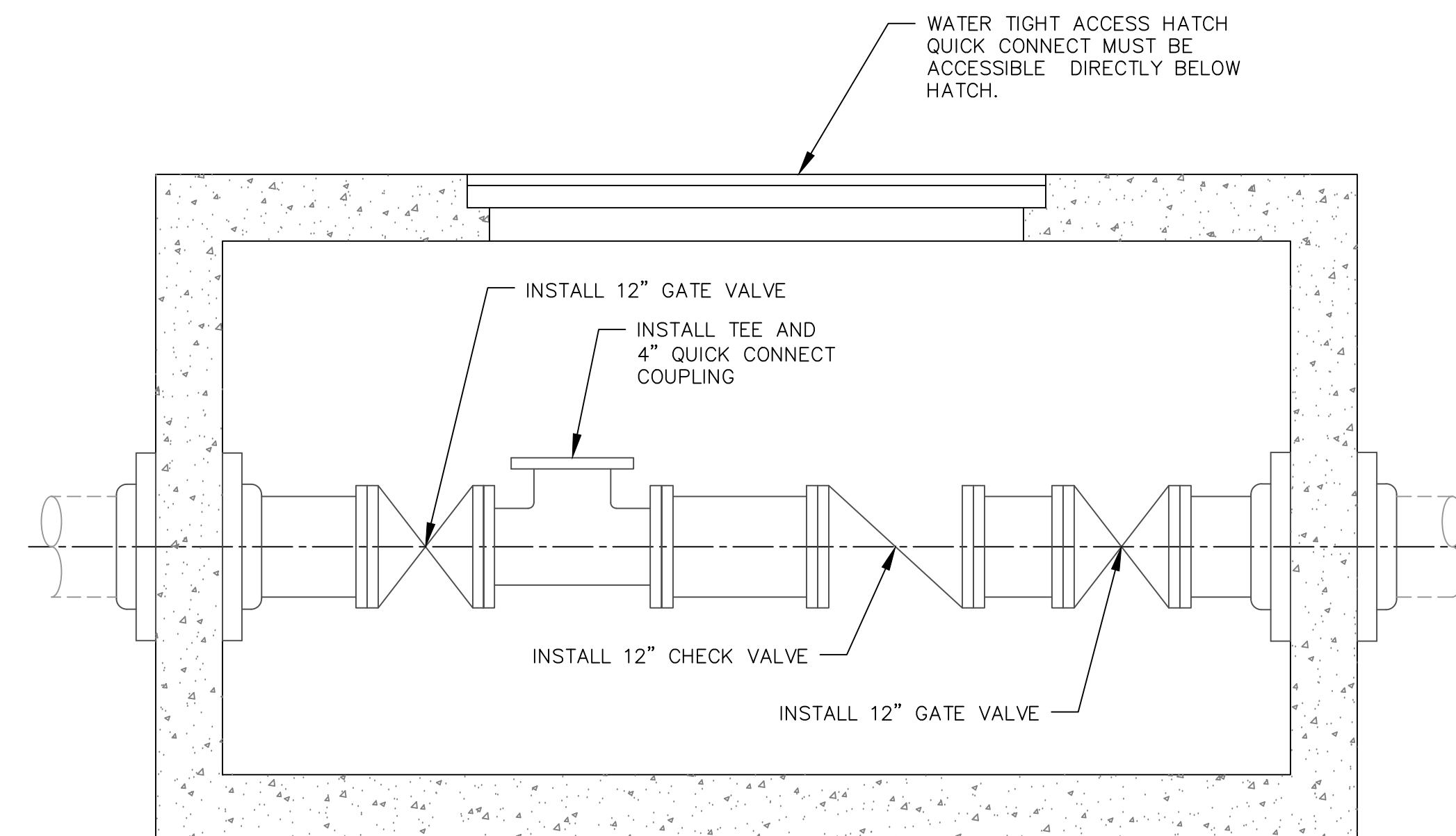


No. PALMERS CHAPEL  
 PUMP STA. & FORCE MAIN  
 0+00 - E.O.I.

SHEET  
 C-301



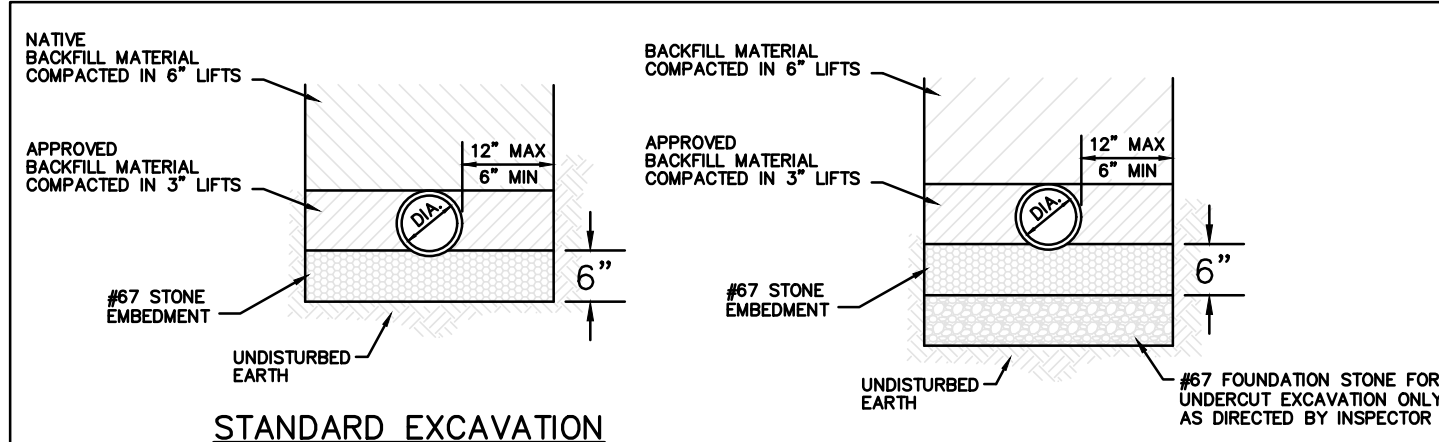
FLOW METER VAULT  
 SCALE 1"=1'



VALVE & QUICK CONNECT VAULT  
 SCALE 1"=1'

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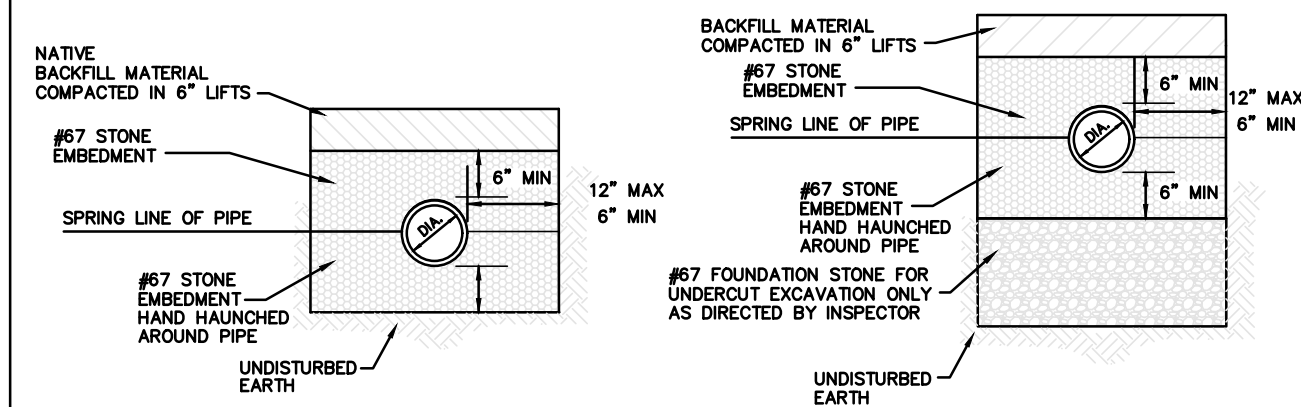
NO.	DATE	BY	REVISION DESCRIPTION



STANDARD EXCAVATION

UNDERCUT EXCAVATION  
IN UNSTABLE SOILS TYPES

PVC/DUCTILE IRON GRAVITY SEWER



STANDARD EXCAVATION

UNDERCUT EXCAVATION  
IN UNSTABLE SOILS TYPES

PIPE IN WET OR UNSTABLE CONDITIONS  
ALL PIPE TYPES (AS DIRECTED BY INSPECTOR)

TYPICAL GRAVITY SEWER  
TRENCHING DETAILS

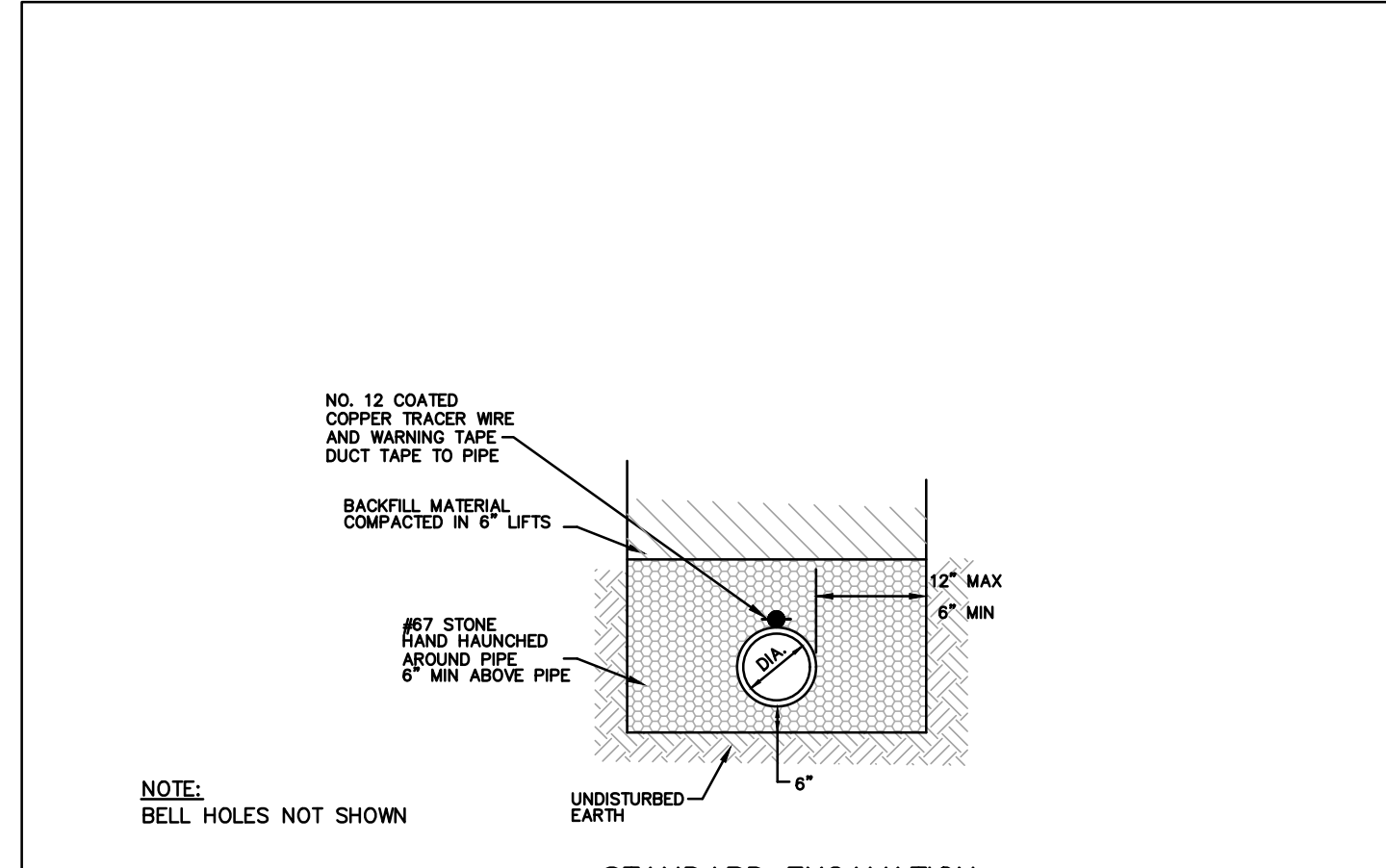
NOT TO SCALE

- NOTES:
- CONSTRUCTION OF TRENCHES SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY AND HEALTH REGULATIONS WHICH HAVE JURISDICTION AT THE PROJECT SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE APPLICABLE REGULATIONS AND FOLLOW THEM ACCORDINGLY.
  - CLAY/CONCRETE COLLARS SHALL BE INSTALLED 4 FT UPSTREAM OF EACH MANHOLE.
  - ALL EXCAVATION IN ROADWAYS SHALL HAVE A FULL #57 STONE BACKFILL PER PAVEMENT REPAIR DETAILS.

**CITY OF WHITE HOUSE**  
WASTEWATER  
STANDARD SEWER DETAILS

REVISION NO: 1  
DATE: OCTOBER 2006

MODIFIED  
STD-WW-01



STANDARD EXCAVATION

NOTE: 1. CONSTRUCTION OF TRENCHES SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY AND HEALTH REGULATIONS WHICH HAVE JURISDICTION AT THE PROJECT SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE APPLICABLE REGULATIONS AND FOLLOW THEM ACCORDINGLY.

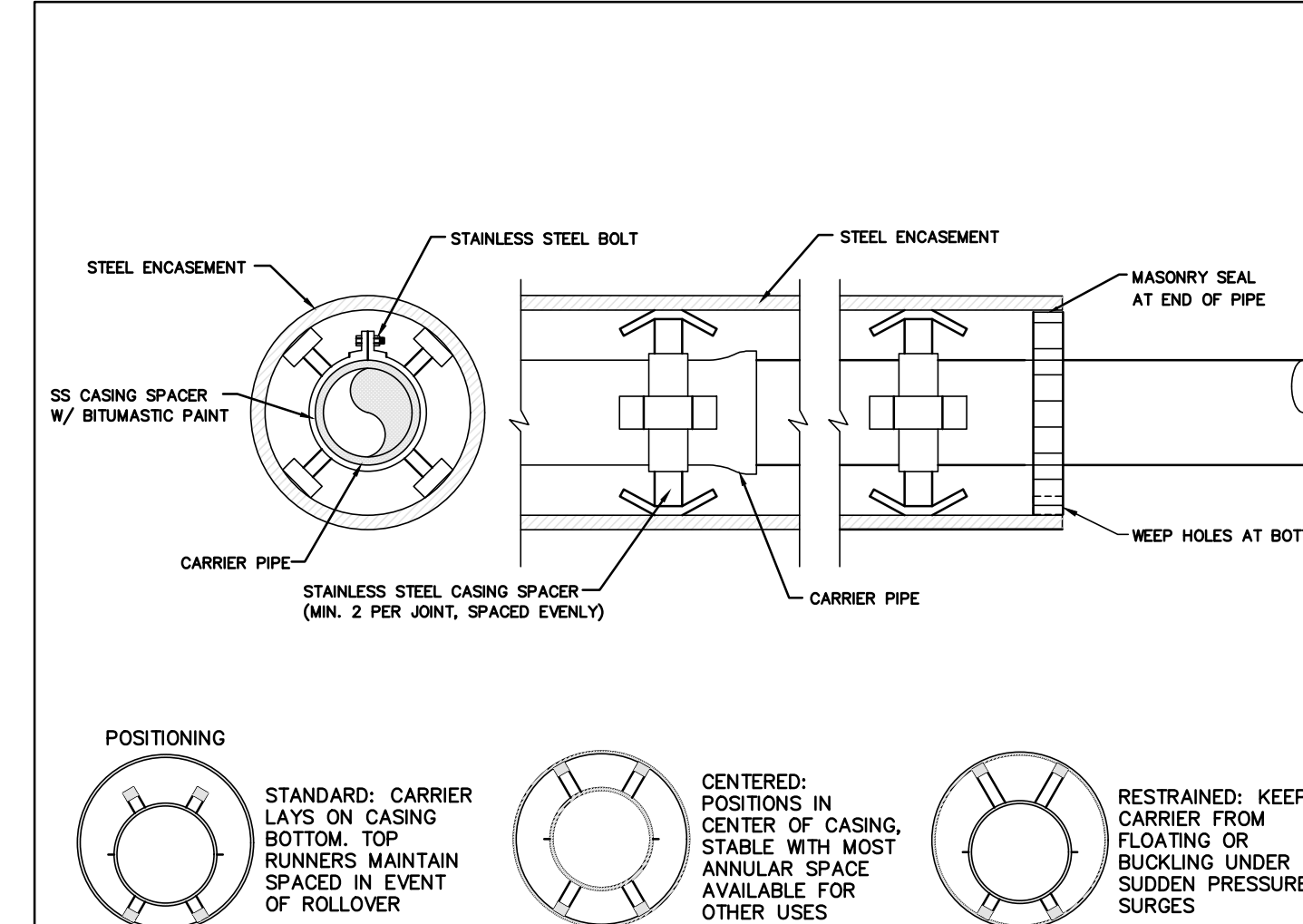
TYPICAL SEWER FORCE MAIN  
TRENCHING DETAILS

NOT TO SCALE

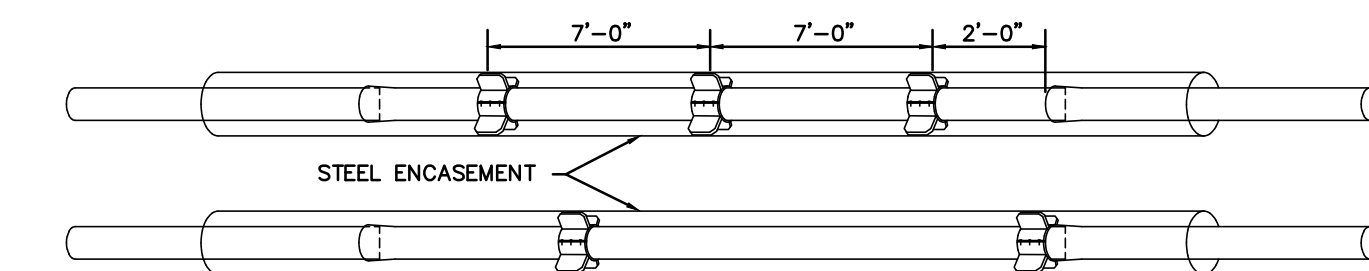
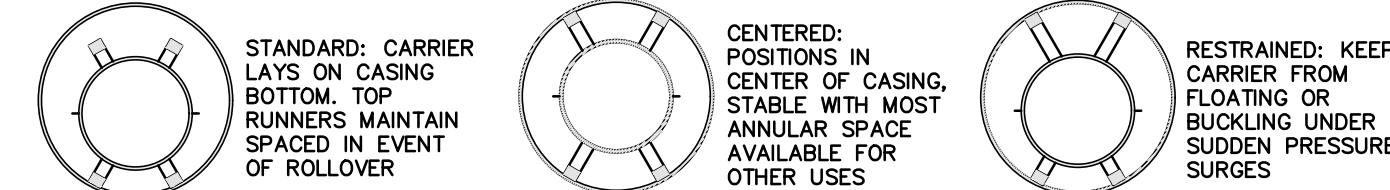
**CITY OF WHITE HOUSE**  
WASTEWATER  
STANDARD SEWER DETAILS

REVISION NO: 1  
DATE: OCTOBER 2006

STD-WW-07



POSITIONING



NOTE: STANDARD POSITIONING TO BE USED UNLESS OTHERWISE NOTED.  
ALL BELLS INSIDE CASING SHALL BE INSTALLED WITH A LOCKING GASKET.  
CASING SPACERS FOR GRAVITY SEWERS SHALL MAINTAIN SEWER LINE GRADE.

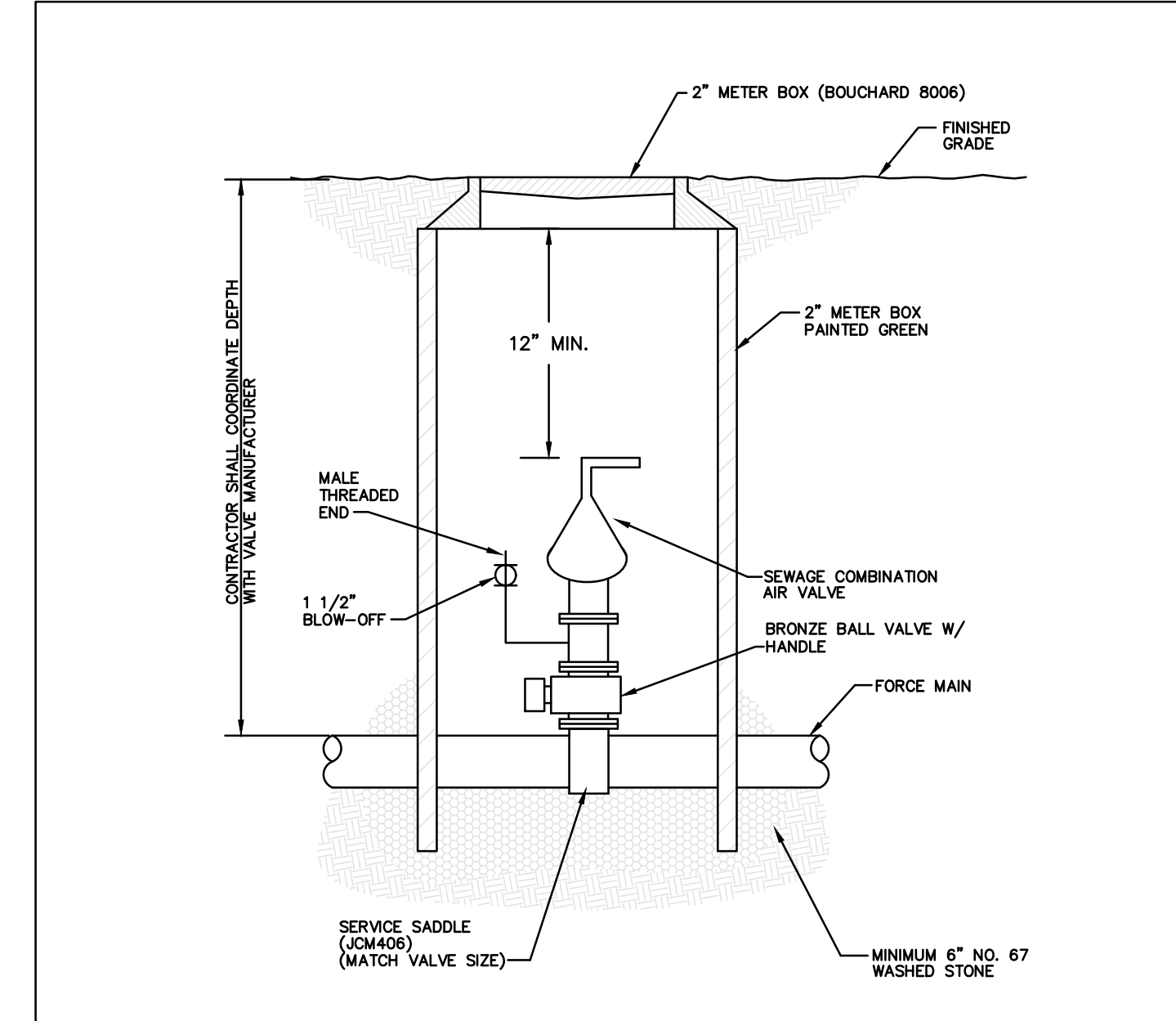
CARRIER PIPE IN STEEL ENCASMENT DETAIL

NOT TO SCALE

**CITY OF WHITE HOUSE**  
WASTEWATER  
STANDARD SEWER DETAILS

REVISION NO: 1  
DATE: OCTOBER 2006

STD-WW-10



- NOTES:
- COMBINATION AIR VALVE TO BE INSTALLED AT ACTUAL HIGH POINT OF LINE. CONTRACTOR SHALL COORDINATE LOCATION WITH INSPECTOR.
  - VALVE SIZE AS SHOWN ON DRAWINGS OR DETAILED IN THE SPECIFICATIONS.
  - ALL PIPING FOR COMBINATION AIR VALVE SHALL BE BRASS OR STAINLESS STEEL.
  - CONTRACTOR SHALL ADJUST THE DEPTH OF THE FORCE MAIN AT ALL HIGH POINTS TO ACCOMMODATE THE INSTALLATION OF THE COMBINATION AIR VALVE.

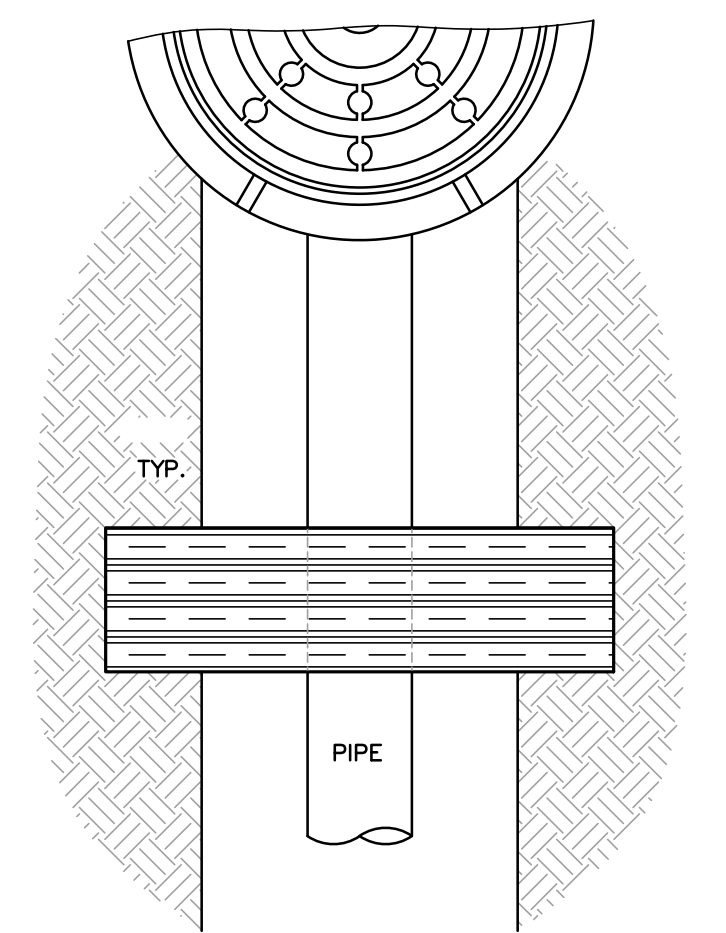
SEWAGE FORCE MAIN COMBINATION AIR VALVE

NOT TO SCALE

**CITY OF WHITE HOUSE**  
WASTEWATER  
STANDARD SEWER DETAILS

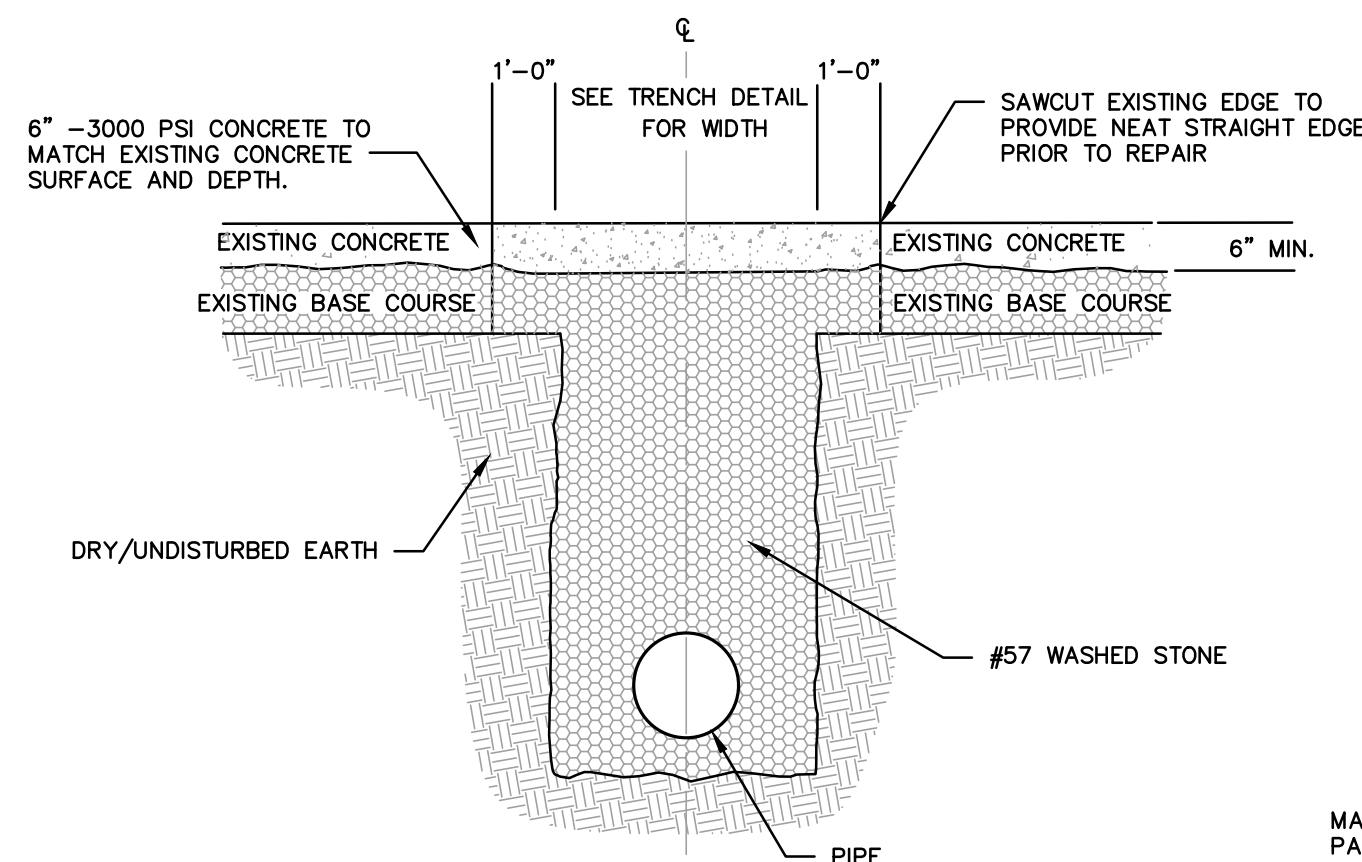
REVISION NO: 1  
DATE: OCTOBER 2006

STD-WW-15

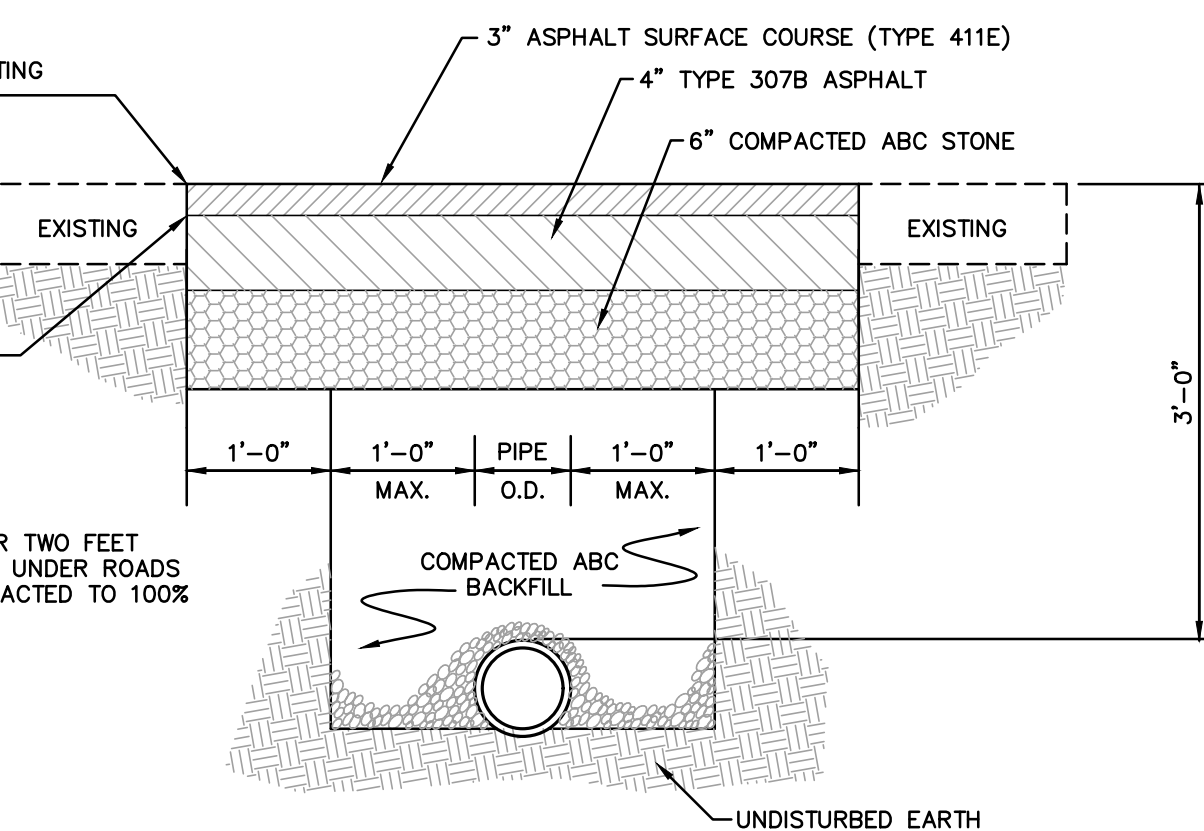
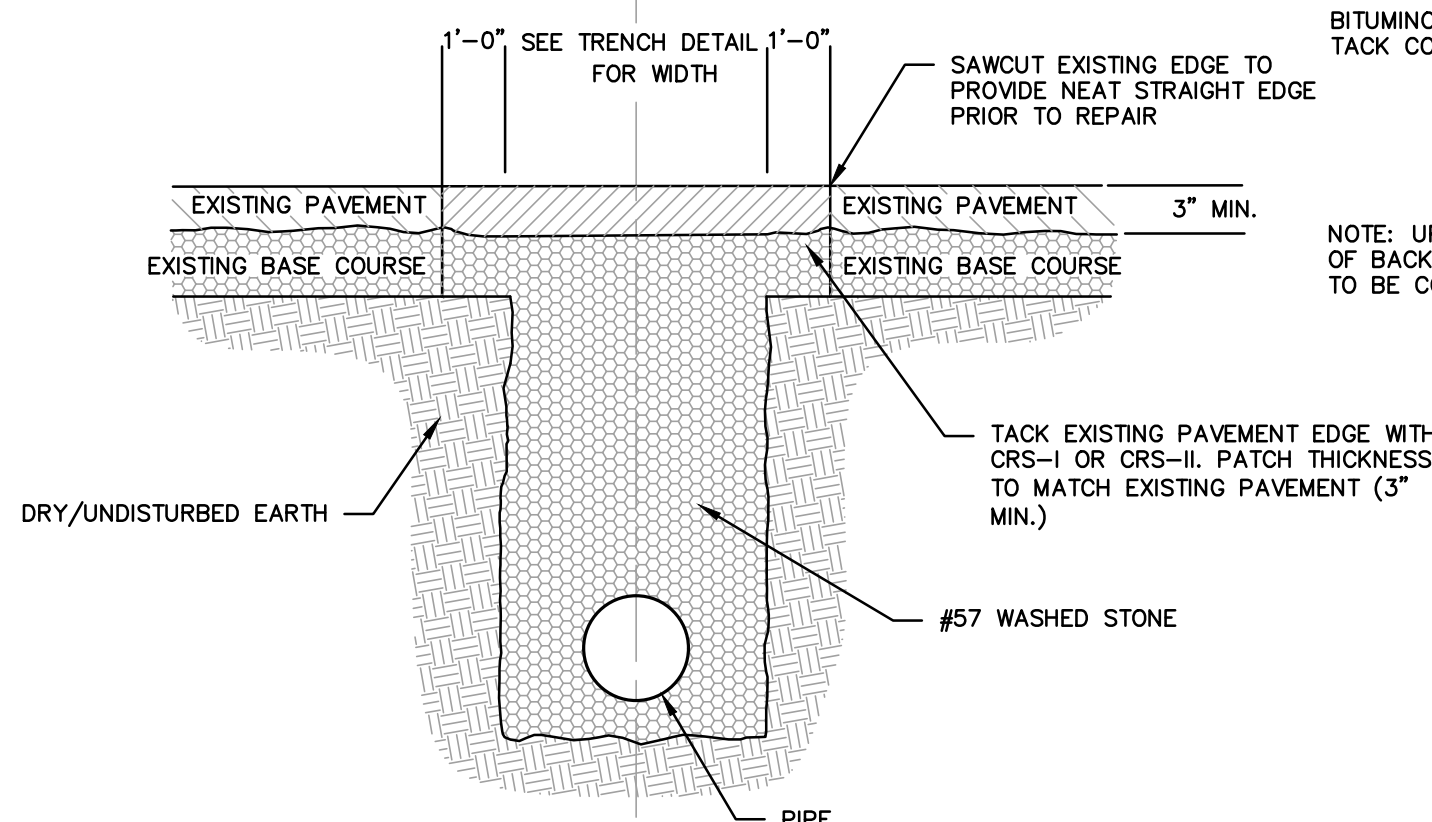


CLAY COLLAR

- NOTES:
- CLAY COLLAR SHALL BE PLACED ON THE UPSTREAM SIDE OF ALL MANHOLES AND ON BOTH SIDES OF A STREAM OR DRAINAGE CROSSING.



CONCRETE DRIVE REPAIR DETAIL



- NOTES:
- EDGE TO BE SAWED WITH A CONCRETE SAW TO A NEAT SQUARED EDGE. BROOMED CLEAN OF DUST BEFORE TACK COAT IS APPLIED.
  - EDGES TO BE TACKED WITH CRS-I OR CRS-II.
  - CONTRACTOR RESPONSIBLE FOR REPLACEMENT OF ANY PAVEMENT MARKINGS DISTURBED OR COVERED BY OVERLAY.

TYPICAL PAVEMENT REPAIRS - PATCH

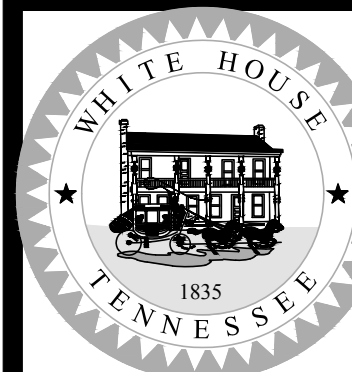
EBAA RESTRAINT  
JOINT CALCULATIONS

DEGREE OF BEND	LENGTH OF RESTRAINT
90°	42 Ft
45°	18 Ft
22.5°	18 Ft
11.25°	6 Ft

RESTRAINT JOINT TYPICAL LENGTHS

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City of White House, Tennessee  
105 College Street  
White House, Tennessee 37188  
ph. 615-672-4350  
http://cityofwhitehouse.com



2018 CITY-WIDE  
SEWER SYSTEM IMP  
DETAILS

SHEET  
C-501



NO.	DATE	BY	REVISION DESCRIPTION



**SITE STABILIZATION**

**GENERAL**

ALL EROSION CONTROL MEASURES ARE TO BE PERFORMED IN STRICT ACCORDANCE WITH REQUIREMENTS OF THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION AND THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK, 4TH ED. AUGUST 2012. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE COMPLIED WITH FOR ALL WORK.

- OBTAIN ALL REQUIRED PERMITS FROM LOCAL AND STATE AGENCIES.
- INSTALL ALL EROSION CONTROL MEASURES AS REQUIRED IN THE STORMWATER POLLUTION PREVENTION PLAN AND BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION AND SEDIMENT CONTROL HANDBOOK, 4TH ED. AUGUST 2012.
- OBTAIN INSPECTION AS PRESCRIBED IN THE TENNESSEE NPDES CONSTRUCTION GENERAL PERMIT SECTION 3.1.2; REQUIRING A SITE ASSESSMENT BE CONDUCTED AT EACH OUTFALL INVOLVING DRAINAGE ARE TOTALING 10 OR MORE ACRES OR 5 OR MORE ACRES WHEN DRAINING TO AN IMPAIRED OR EXCEPTIONAL QUALITY WATER. WITHIN ONE (1) MONTH OF CONSTRUCTION COMMENCING AT EACH PORTION OF THE SITE THAT DRAINS THE QUALIFYING ACREAGE OF SUCH PORTION OF THE SITE. THE SITE ASSESSMENT SHALL BE PERFORMED BY INDIVIDUALS WITH THE FOLLOWING QUALIFICATIONS:
  - A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT; OR
  - A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC); OR
  - A PERSON THAT SUCCESSFULLY COMPLETED THE "LEVEL II DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE.
- PROCEED WITH GRADING, CLEARING AND GRUBBING.
- SEED AND MULCH DENUDE AREA WITHIN 14 DAYS AFTER FINISHED GRADES ARE ESTABLISHED. SEED AND SOIL AMENDMENTS SHALL BE PLACED ON A PREPARED SEEDBED AT THE REQUIRED RATES PER ACRE.
- MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- REMOVE SOIL EROSION CONTROL MEASURES AND STABILIZE THESE AREAS.
- REQUEST FINAL APPROVAL BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION AND LOCAL AGENCIES.

**TEMPORARY STABILIZATION [TS]**

- TEMPORARY STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY STOPPED, AND ON SOIL STOCKPILES. TEMPORARY SOIL STABILIZATION ON THE CONSTRUCTION SITE OR A PHASE OF THE PROJECT MUST BE COMPLETED NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITIES WITH IN THAT AREA HAVE TEMPORARILY OR PERMANENTLY CEASED.
- SEEDBED PREPARATION
  - SEEDBED PREPARATION MAY NOT BE REQUIRED WHEN THE SOIL MATERIAL IS LOOSE AND HAS NOT BEEN COMPACTED BY MACHINERY OR RAINFALL.
  - SEEDBED SHALL BE DISKED, PLOWED, TILLED, OR OTHERWISE SCARIFIED WHEN SOIL COMPACTION HAS OCCURRED DUE TO EQUIPMENT OR RAINFALL.
- SELECT APPROPRIATE SEED FROM TEMPORARY PLANTING TABLE BELOW. SEED SHALL BE APPLIED UNIFORMLY TO THE APPROPRIATE DEPTH.
- MULCH SHALL BE UTILIZED UNDER THE FOLLOWING CONDITIONS. THE MULCHING REQUIREMENT MAY BE WAIVED WITH APPROVAL FROM THE OWNERS REPRESENTATIVE FOR TEMPORARY STABILIZATION ONLY
  - SEEDING IN THE FALL FOR WINTER COVER;
  - SLOPES STEEPER THAN 3:1;
  - EXCESSIVELY HOT OR DRY WEATHER;
  - ADVERSE SOILS (SHALLOW, ROCKY, OR HIGH IN CLAY OR SAND); AND
  - AREAS RECEIVING CONCENTRATED FLOW.
- REFER TO TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK SECTION 7.8 FOR ADDITIONAL REQUIREMENTS FOR TEMPORARY STABILIZATION.

**TEMPORARY PLANTS**

WINTER/SPRING MIX SPECIES	RATE (LB./ACRE)
RYE	120

SEEDING DATES	RATE (LB./ACRE)
EAST TN ABOVE 2500 FEET: FEB 15-MAY 15	120
BELOW 2500 FEET: FEB 1-MAY 1	120
MIDDLE TN MAY 1-MAY 1	120
WEST TN DEC 1-APR 15	120

SUMMER MIX SPECIES	RATE (LB./ACRE)
OATS	60
BROWN TOP MILLET	30

SEEDING DATES	RATE (LB./ACRE)
EAST TN MAY 15-AUG 15	60
MIDDLE TN MAY 1-AUG 15	60
WEST TN APR 15-AUG 15	60

FALL MIX SPECIES	RATE (LB./ACRE)
OATS	30
WINTER WHEAT	30

SEEDING DATES	RATE (LB./ACRE)
EAST TN AUG 15-DEC 15	30
MIDDLE TN AUG 15-DEC 30	30
WEST TN AUG 15-DEC 30	30

**SOIL AMENDMENTS:**  
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

**MULCH:**  
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING OR A MULCH ANCHORING TOLL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

**MAINTENANCE:**  
RE-FERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, RE-FERTILIZED AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE. IF NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/AC CRIMSON CLOVER IN LATE FEBRUARY OR EARLY MARCH.

**PERMANENT STABILIZATION [PS]**

- PERMANENT STABILIZATION IS REQUIRED WHEN GRADING OPERATIONS ARE COMPLETE AND/OR CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA.
- PERMANENT STABILIZATION SHOULD BE APPLIED WHERE NO SOIL DISTURBANCE HAS TAKEN PLACE, OR WHERE TOPSOIL HAS BEEN RETURNED AND INCORPORATED INTO THE SOIL SURFACE.
- WHERE A SUITABLE PLANTING MEDIUM IS NOT PRESENT, TOPSOIL SHALL BE IMPORTED AND INCORPORATED INTO THE SOIL SURFACE.
- TOPSOIL SHOULD BE FREE OF DEBRIS, OBJECTIONABLE WEEDS, STONES, AND TOXIC SUBSTANCES. TOPSOIL SHOULD BE HANDLED ONLY WHEN DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE AND PLACED TO A MINIMUM UNSETTLED DEPTH OF 5".
- PLANTS SHOULD BE SELECTED ON THE BASIS OF SPECIES CHARACTERISTICS, SITE AND SOIL CONDITIONS, PLANNED USE AND MAINTENANCE OF THE AREA; TIME OF YEAR OF PLANTING, AND THE METHOD OF PLANTING BEING USED.
- MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER.
- MULCHING MATERIAL SHOULD BE DRY STRAW OR DRY HAY FREE OF WEED SEEDS, OR WOOD CELLULOSE MULCH OR PULP. MULCHING MATERIAL SHOULD BE APPLIED AS STATED IN THE PROJECT SPECIFICATIONS.
- IRRIGATION SHOULD BE PERFORMED WHEN SOIL IS DRY AND WHEN SUMMER PLANTINGS ARE DONE.

**PERMANENT PLANT MIXTURES**

- SOIL TESTING SHOULD BE PERFORMED AND EVALUATED BY AN AGRONOMIST TO DETERMINE SOIL TREATMENT REQUIREMENTS FOR PARAMETERS SUCH AS PH, NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER FACTORS.
- SEED SHOULD BE IRRIGATED DURING DRY PERIODS.

**PREFERRED SEED MIXES USING NATIVE OR NATURALIZED PLANTS AND PLANTING DATES**

Region	Maintenance	Planting Dates	Planting Dates	Seed Mix
REGION II	LOW MAINTENANCE; SLOPES AND POOR, SHALLOW SOILS	AUG 25-SEPT 15 FEB 15-MAY 30	SEPT 15-OCT 25 MAR 21-MAY 30	15 BROWNTOP MILLET* (NURSE CROP) 5 LITTLE BLUESTEM 2 SWITCH GRASS 2 TALL DROPPED 5 SIDE-OATS GRAMMA 2 BLACK-EYED SUSAN 2 PARTRIDGE PEA 1 GREYHEADED CONEFLOWER
	LOW MAINTENANCE; MODERATE SLOPES; SOILS > 6IN. DEPTH	AUG 25-SEPT 15 FEB 15-MAY 30	SEPT 15-OCT 25 MAR 21-MAY 30	15 BROWNTOP MILLET* (NURSE CROP) 5 PURPLETOP 5 LITTLE BLUESTEM 5 VIRGINIA WILD RYE 2 BLACK-EYED SUSAN 2 PARTRIDGE PEA 1 GREYHEADED CONEFLOWER
	HIGH MAINTENANCE	AUG 30-OCT 15	FEB 15-APR 15	15 BROWNTOP MILLET* (NURSE CROP) 2 PARTRIDGE PEA 45 RED FESCUE* 45 HARD FESCUE* 25 CHEWING FESCUE*
REGION III	>2500 FT ELEVATION STEEP SLOPES	MAR 20-APR 30	AUG 15-AUG 30 MAR 1-MAR 20 APR 20-JUN 15	15 BROWNTOP MILLET* (NURSE CROP) 5 PURPLETOP 10 LITTLE BLUESTEM 10 INDIAN GRASS 2 BLACK-EYED SUSAN 0.5 MONARDA (BERGAMOT) 4 MARYLAND SENNA
	<2500 FT ELEVATION STEEP SLOPES	AUG 15-SEPT 1 MAR 1-APR 1	SEPT 1-SEPT 15 APR 1- JUN 10	15 BROWNTOP MILLET* (NURSE CROP) 4 PURPLETOP 10 LITTLE BLUESTEM 10 BROOMSEDGE 2 PARTRIDGE PEA 2 BLACK-EYED SUSAN 0.5 MONARDA (BERGAMOT)
	>2500 FT ELEVATION SHALLOW SOILS	MAR 20-APR 20	AUG 15-AUG 30 MAR 5-MAR 20 APR 20-JUN 15	15 BROWNTOP MILLET* (NURSE CROP) 4 PURPLETOP 10 LITTLE BLUESTEM 10 INDIAN GRASS 2 PARTRIDGE PEA 2 BLACK-EYED SUSAN 0.5 MONARDA (BERGAMOT)
	<2500 FT ELEVATION SHALLOW SOILS	AUG 15-SEPT 1 MAR 1-APR 1	SEPT 1-SEPT 15 APR 1- JUN 10	15 BROWNTOP MILLET* (NURSE CROP) 4 PURPLETOP 10 LITTLE BLUESTEM 10 INDIAN GRASS 2 PARTRIDGE PEA 2 BLACK-EYED SUSAN 4 MARYLAND SENNA
	>2500 FT ELEVATION MODERATE SLOPES	MAR 20-APR 20	AUG 15-AUG 30 MAR 5-MAR 20 APR 20-JUN 15	15 BROWNTOP MILLET* (NURSE CROP) 4 PURPLETOP 10 LITTLE BLUESTEM 10 INDIAN GRASS 2 PARTRIDGE PEA 2 BLACK-EYED SUSAN 4 MARYLAND SENNA
	<2500 FT ELEVATION MODERATE SLOPES	AUG 15-SEPT 1 MAR 1-APR 1	SEPT 1-SEPT 15 APR 1- JUN 10	15 BROWNTOP MILLET* (NURSE CROP) 45 RED FESCUE* 45 HARD FESCUE* 25 CHEWING FESCUE*
>2500 FT ELEVATION HIGH MAINTENANCE	Mar 20-Apr 20	Aug 15-Aug 30 Mar 5-Mar 20 Apr 20-Jun 15	15 BROWNTOP MILLET* (NURSE CROP) 45 RED FESCUE* 45 HARD FESCUE* 25 CHEWING FESCUE*	
<2500 FT ELEVATION HIGH MAINTENANCE	AUG 15-SEPT 1 MAR 1-APR 1	SEPT 1-SEPT 15 APR 1- JUN 10	15 BROWNTOP MILLET* (NURSE CROP) 45 RED FESCUE* 45 HARD FESCUE* 25 CHEWING FESCUE*	

BOLD DATES ARE THE PREFERRED DATES FOR SEEDING. ALSO, HIGH MAINTENANCE AREAS INCLUDE LAWNS AND OTHER GRASSED AREAS THAT WILL BE MAINTAINED FOR AESTHETICS.

ABOVE TABLE IS REFERENCES FROM THE TN EROSION AND SEDIMENT CONTROL HANDBOOK 4TH ED.

**GENERAL EROSION AND SEDIMENT CONTROL NOTES**

- ALL SOIL EROSION CONTROL MEASURES REQUIRED BY THE GRADING PLAN SHALL BE PERFORMED PRIOR TO GRADING, CLEARING OR GRUBBING. ALL EROSION CONTROL DEVICES SUCH AS SILT FENCES, ETC., SHALL BE MAINTAINED IN WORKABLE CONDITION FOR THE LIFE OF THE PROJECT AND SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT ONLY ON THE ENGINEER'S APPROVAL. IF DURING THE LIFE OF THE PROJECT STORMS CAUSE SOIL EROSION WHICH CHANGES FINISH GRADES OR CREATES "GULLIES" AND "WASHED AREAS", THESE SHALL BE REPAIRED AT NO EXTRA COST, AND ALL SILT WASHED OFF OF THE PROJECT SITE ONTO ADJACENT PROPERTY SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AT NO EXTRA COST. THE CONTRACTOR SHALL ADHERE TO ANY APPROVED EROSION CONTROL PLANS WHETHER INDICATED IN THE CONSTRUCTION PLANS OR UNDER SEPARATE COVER.
- IN THE EVENT EXCESSIVE GROUNDWATER OR SPRINGS ARE ENCOUNTERED WITHIN THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL FIRST NOTIFY THE ENGINEER OR HIS REPRESENTATIVE IN ORDER TO DEVELOP A REMEDIATION PLAN.
- THE CONTRACTOR SHALL CONTROL ALL "DUST" BY PERIODIC WATERING AND SHALL PROVIDE ACCESS AT ALL TIMES FOR PROPERTY OWNERS WITHIN THE PROJECT AREAS AND FOR EMERGENCY VEHICLES. ALL OPEN DITCHES AND HAZARDOUS AREAS SHALL BE CLEARLY MARKED IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL AREAS OF EXPOSED DIRT SHALL BE SEED, FERTILIZED AND MULCHED ACCORDING TO THE SPECIFICATIONS. THE FINISHED SURFACE SHALL BE TO GRADE, SMOOTH, FREE OF ALL ROCKS LARGER THAN 0.5", EQUIPMENT TRACKS, DIRT CLOUDS, BUMPS, RIDGES AND GOUGES PRIOR TO SEEDING; THE SURFACE SHALL BE LOOSENEED TO A DEPTH OF 4"-6" TO ACCEPT SEED. THE CONTRACTOR SHALL NOT PROCEED WITH SEEDING OPERATIONS WITHOUT FIRST OBTAINING THE ENGINEER'S APPROVAL OF THE GRADED SURFACE. ALL SEEDING SHALL BE PERFORMED BY A MECHANICAL HYDROSEDER. HAND SEEDING SHALL BE AUTHORIZED ON AN AREA BY AREA BASIS BY THE ENGINEER.
- EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE EMPLOYED BY THE CONTRACTOR WHERE DETERMINED NECESSARY BY LOCAL AUTHORITIES OR THE ENGINEER BASED ON ACTUAL SITE CONDITIONS AT NO COST TO THE OWNER.
- EROSION CONTROL MEASURES MAY HAVE TO BE ALTERED FROM THOSE SHOWN ON THE DRAWINGS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE DRAINAGE PATTERNS SHOWN ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION.
- PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE, AT A MINIMUM, IN CONFORMANCE WITH THE LATEST REVISION OF THE "TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK", PUBLISHED BY THE TENNESSEE

DEPARTMENT OF ENVIRONMENT AND CONSERVATION, AND THE SWPPP.

- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION ACTIVITY BEING STOPPED UNTIL SUCH MEASURES ARE CORRECTED.
- IF FINES OR PENALTIES ARE LEVIED AGAINST THE OWNER OF THIS PROJECT BECAUSE OF A LACK OF EROSION OR SEDIMENTATION CONTROL, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PAYMENT OF SUCH FINES OR PENALTIES, OR THE COST OF SUCH FINES OR PENALTIES SHALL BE DEDUCTED FROM THE CONTRACT AMOUNT.
- ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAYS OR INTO STORM DRAINS SHALL BE REMOVED BY THE END OF EACH DAY.
- PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO DISTURBANCE ACTIVITY SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE DRAWINGS.
- CONSTRUCTION OF THE SITE WILL BEGIN WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSIT AND EROSIONS. ALL SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL ALL UPSTREAM DISTURBED GROUND HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION. NO DISTURBANCE ACTIVITY SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSPECT AND REPAIR EROSION CONTROL IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT FROM SEDIMENT BARRIERS THAT BECOME SILTED ABOVE ONE-HALF THEIR ORIGINAL HEIGHT.
- TEMPORARY MULCHING AND OR SEEDING SHALL BE PROVIDED IN AREAS THAT ARE LEFT OPEN FOR MORE THAN 14 DAYS.
- WHEN ANY CONSTRUCTION BORDERS A DRAINAGE WAY, THE CONTRACTOR SHALL NOT DEPOSIT ANY MATERIAL, DIRT OR OTHERWISE, IN THE DRAINAGE COURSE OR THE FLOODPLAIN.

**EROSION CONTROL LEGEND:**

	STABILIZATION WITH STRAW MULCH
	STABILIZATION WITH OTHER MULCH
	STABILIZATION WITH TEMPORARY VEGETATION
	STABILIZATION WITH PERMANENT VEGETATION
	STABILIZATION WITH SOD
	ROLLED EROSION CONTROL PRODUCT
	HYDRO APPLICATIONS
	SOIL BINDERS AND TACKIFIERS
	EMERGENCY STABILIZATION WITH PLASTIC
	SOIL ENHANCEMENT
	CONCRETE WASHOUT
	VEHICLE MAINTENANCE
	CHEMICAL STORAGE
	TRASH AND DEBRIS MANAGEMENT
	CHECK DAM
	DEWATERING STRUCTURE
	DIVERSION
	OUTLET PROTECTION
	SLOPE DRAIN
	TUBES AND WATTLES
	LEVEL SPREADER
	CHANNEL
	GRAVEL CONSTRUCTION EXIT
	TIRE WASHING FACILITY
	FILTER RING
	SEDIMENT BASIN
	SEDIMENT TRAP
	BAFFLES
	SILT FENCE
	ROCK RING INLET PROTECTION
	EXCAVATED INLET PROTECTION
	HARDWARE CLOTH AND GRAVEL INLET PROTECTION
	BLOCK AND GRAVEL INLET PROTECTION
	CONSTRUCTION ROAD STABILIZATION
	FILTER BERM
	TURBIDITY CURTAIN
	FLOCCULENT
	STREAM DIVERSION (DO NOT DISTURB)
	STREAM DIVERSION
	TEMPORARY STREAM CROSSING
	STREAMBANK STABILIZATION

**ALLOWABLE SEED MIXES USING NATIVE OR NATURALIZED PLANTS AND PLANTING DATES**

Region	Maintenance	Planting Dates	Planting Dates	Seed Mix
REGION II	LOW MAINTENANCE; SLOPES AND POOR, SHALLOW SOILS	AUG 25-SEPT 15 FEB 15-MAR 21	SEPT 15-OCT 25 MAR 21-MAY 30	100 PENSACOLA BAHIAGRASS 40 BERMUDAGRASS (HULLED) 20 KOREAN LESPEDEZA** 10 KOBE LESPEDEZA**
	LOW MAINTENANCE; MODERATE SLOPES; SOILS > 6IN. DEPTH	AUG 25-SEPT 15 FEB 15-MAY 30	SEPT 15-OCT 25 MAR 21-MAY 30	80 PENSACOLA BAHIAGRASS 30 BERMUDAGRASS (HULLED) 20 KOREAN LESPEDEZA** 10 KOBE LESPEDEZA**
	HIGH MAINTENANCE	AUG 30-OCT 15	FEB 15-APR 15	200 KY 31 FESCUE
REGION III	>2500 FT ELEVATION STEEP SLOPES	MAR 20-APR 30	AUG 15-AUG 30 MAR 1-MAR 20 APR 20-JUN 15	100 KY 31 FESCUE** 20 KOBE LESPEDEZA** 10 KOREAN LESPEDEZA** 5 REDTOP
	<2500 FT ELEVATION STEEP SLOPES	AUG 15-SEPT 1 MAR 1-APR 1	SEPT 1-SEPT 15 APR 1- JUN 10	40 KY 31 FESCUE** 10 KOBE LESPEDEZA** 10 REDTOP 10 CROWN VETCH**
	>2500 FT ELEVATION SHALLOW SOILS	MAR 20-APR 20	AUG 15-AUG 30 MAR 5-MAR 20 APR 20-JUN 15	40 KY 31 FESCUE** 10 KOBE LESPEDEZA** 10 REDTOP 10 CROWN VETCH**
	<2500 FT ELEVATION SHALLOW SOILS	AUG 15-SEPT 1 MAR 1-APR 1	SEPT 1-SEPT 15 APR 1- JUN 10	60 KY 31 FESCUE** 15 KOREAN LESPEDEZA** 15 KOBE LESPEDEZA**
	>2500 FT ELEVATION MODERATE SLOPES	MAR 20-APR 20	AUG 15-AUG 30 MAR 5-MAR 20 APR 20-JUN 15	60 KY 31 FESCUE** 15 KOREAN LESPEDEZA** 15 KOBE LESPEDEZA**
	<2500 FT ELEVATION MODERATE SLOPES	AUG 15-SEPT 1 MAR 1-APR 1	SEPT 1-SEPT 15 APR 1- JUN 10	200 KY 31 FESCUE**
>2500 FT ELEVATION HIGH MAINTENANCE	Mar 20-Apr 20	Aug 15-Aug 30 Mar 5-Mar 20 Apr 20-Jun 15	200 KY 31 FESCUE**	
<2500 FT ELEVATION HIGH MAINTENANCE	AUG 15-SEPT 1 MAR 1-APR 1	SEPT 1-SEPT 15 APR 1- JUN 10	200 KY 31 FESCUE**	

BOLD DATES ARE THE PREFERRED DATES FOR SEEDING. ALSO, HIGH MAINTENANCE AREAS INCLUDE LAWNS AND OTHER GRASSED AREAS THAT WILL BE MAINTAINED FOR AESTHETICS.

ABOVE TABLE IS REFERENCES FROM THE TN EROSION AND SEDIMENT CONTROL HANDBOOK 4TH ED.

City of White House, Tennessee  
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http://cityofwhitehouse.com

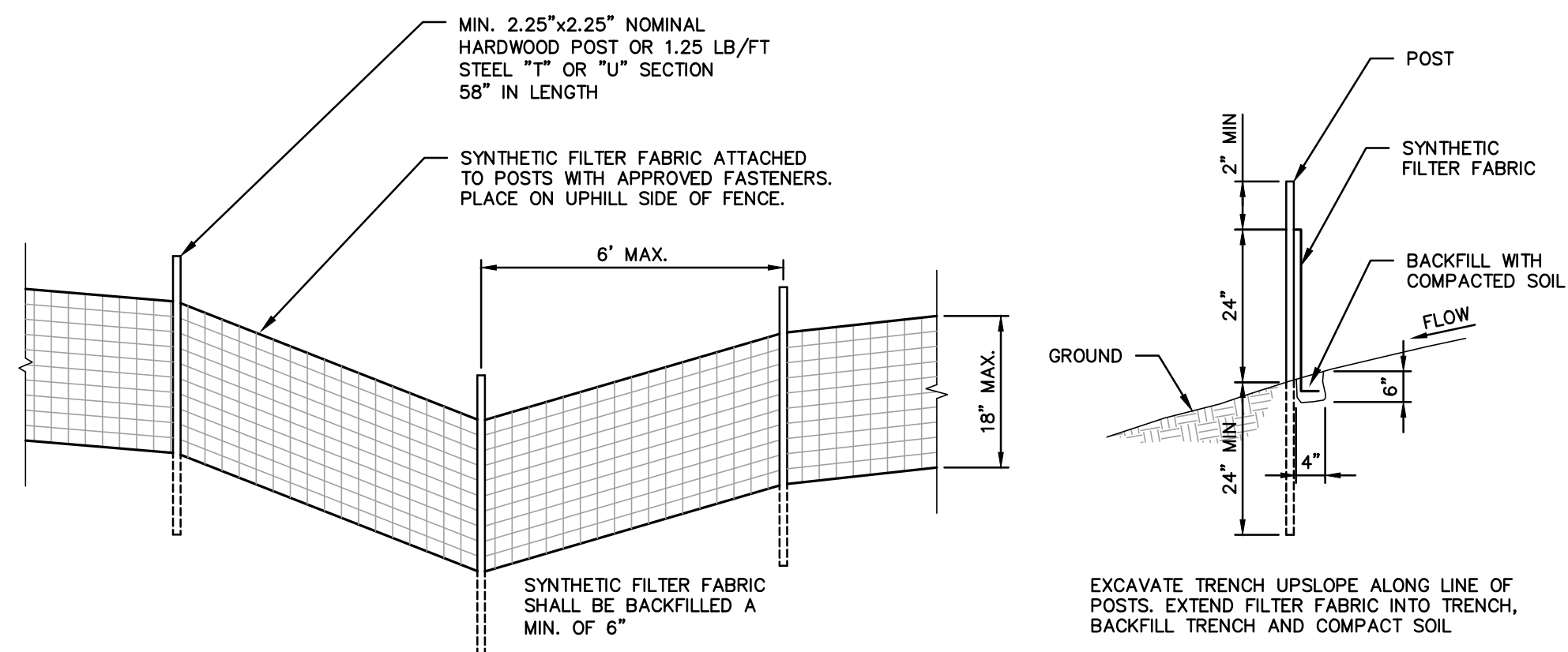


2018 CITY-WIDE  
SEWER SYSTEM IMP  
SWPPP GENERAL NOTES

SHEET  
C-601

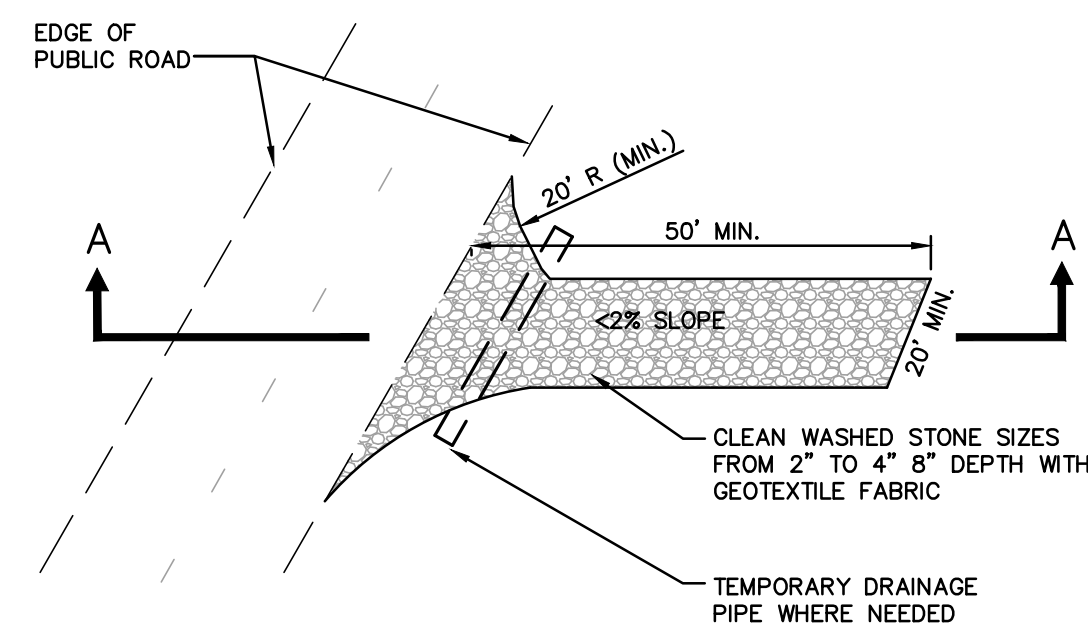


NO.	DATE	BY	REVISION DESCRIPTION

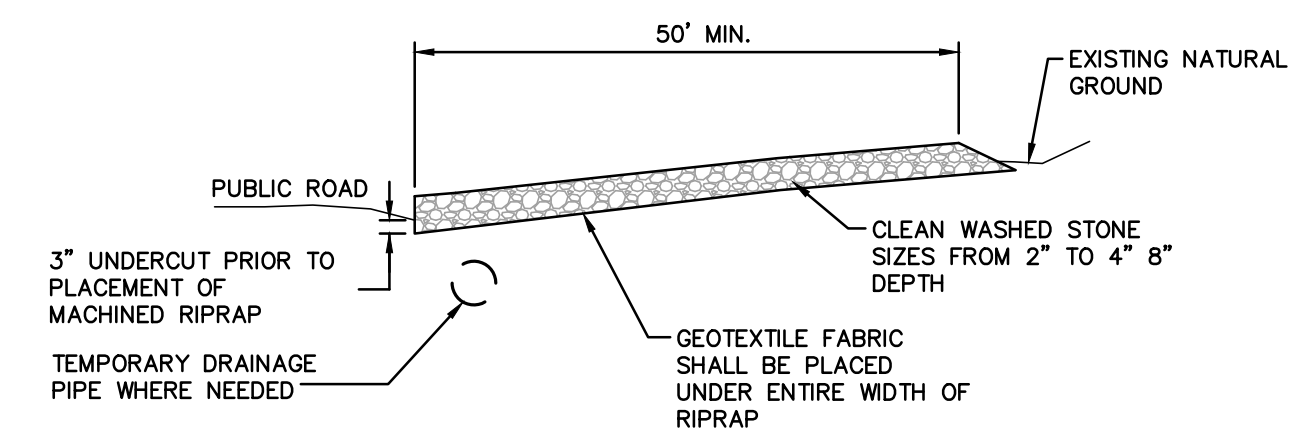


- NOTES:**
1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. REPAIR SHALL BE MADE AS NECESSARY.
  2. FABRIC SHALL BE REPLACED PROMPTLY IF FOUND TO BE IN DISREPAIR.
  3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT AND WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.

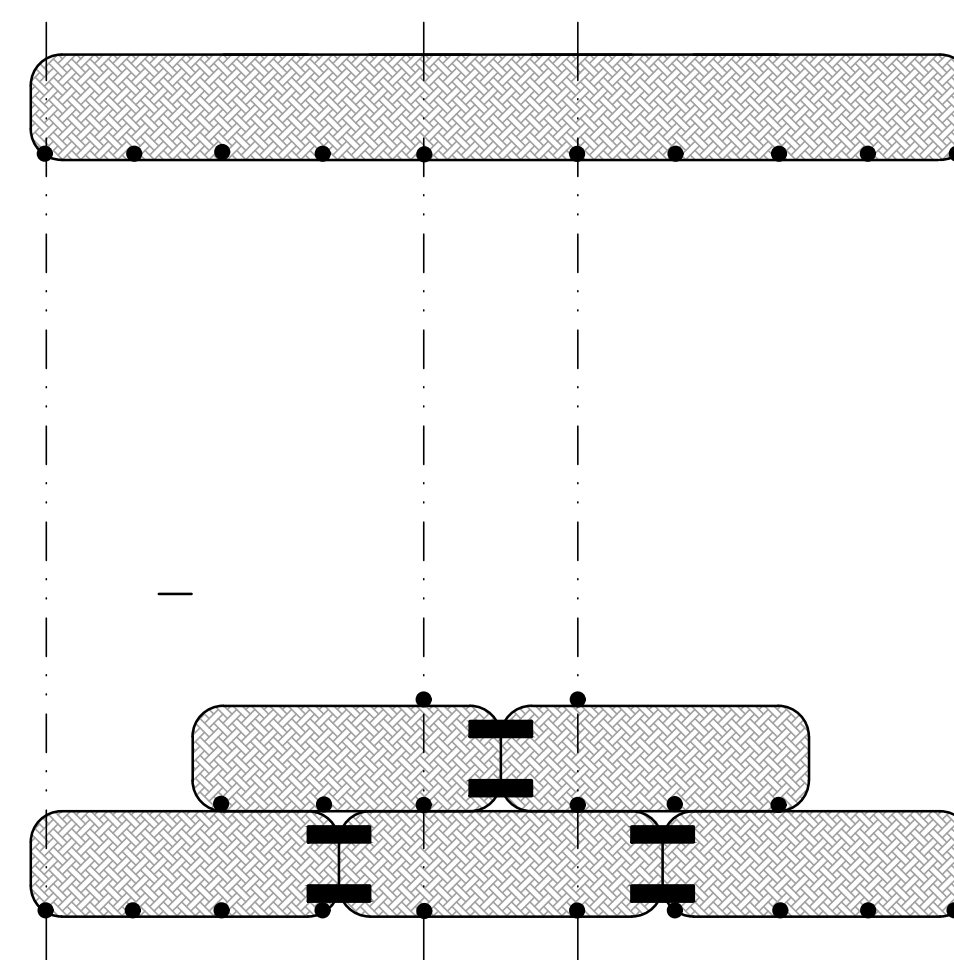
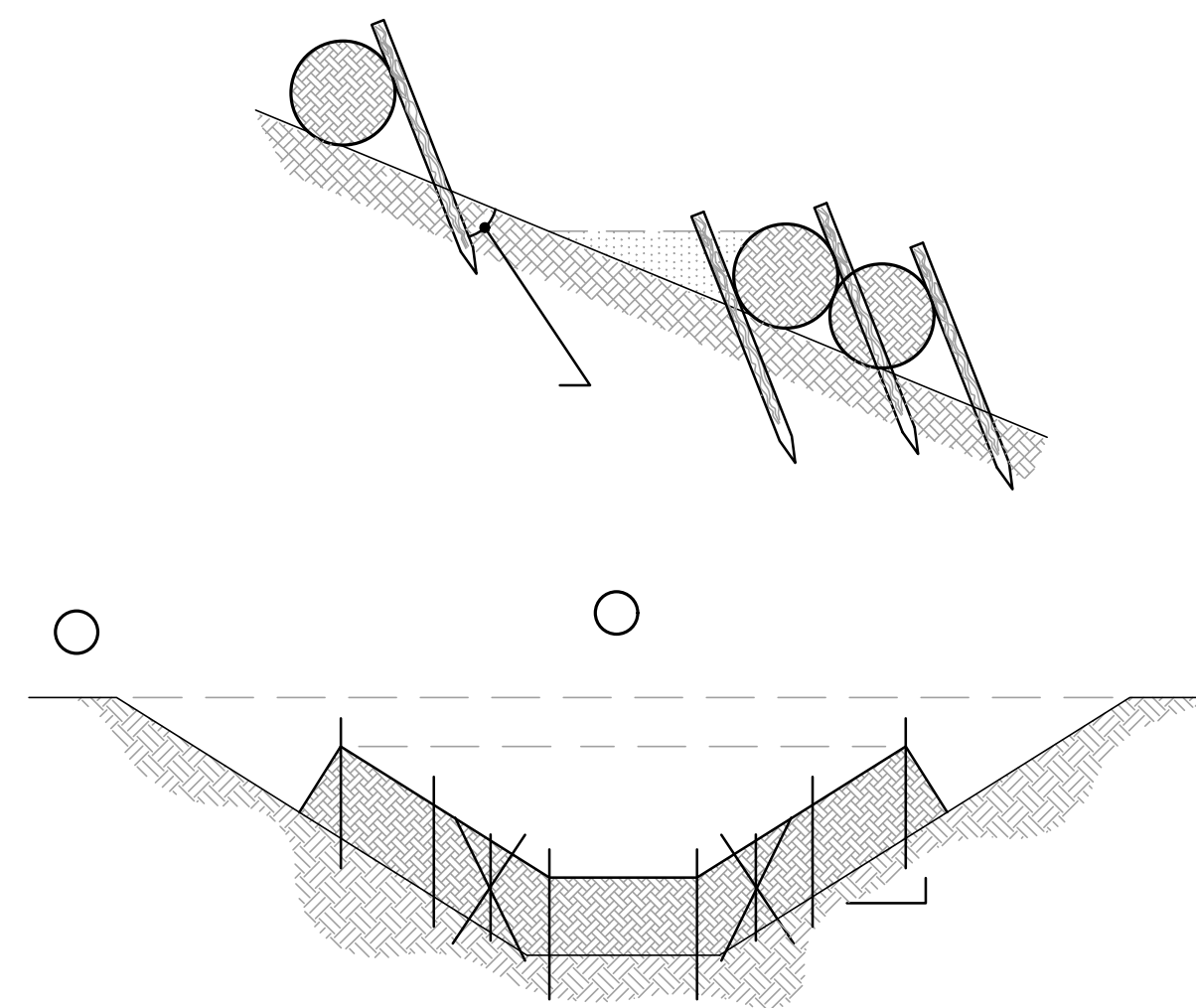
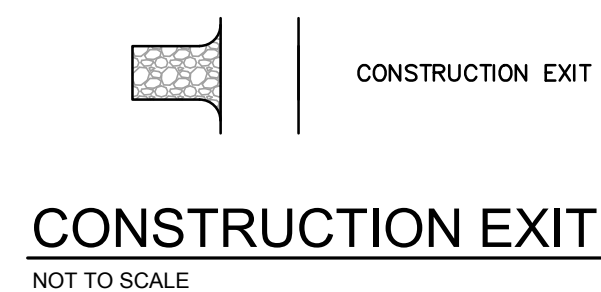
**SILT FENCE**



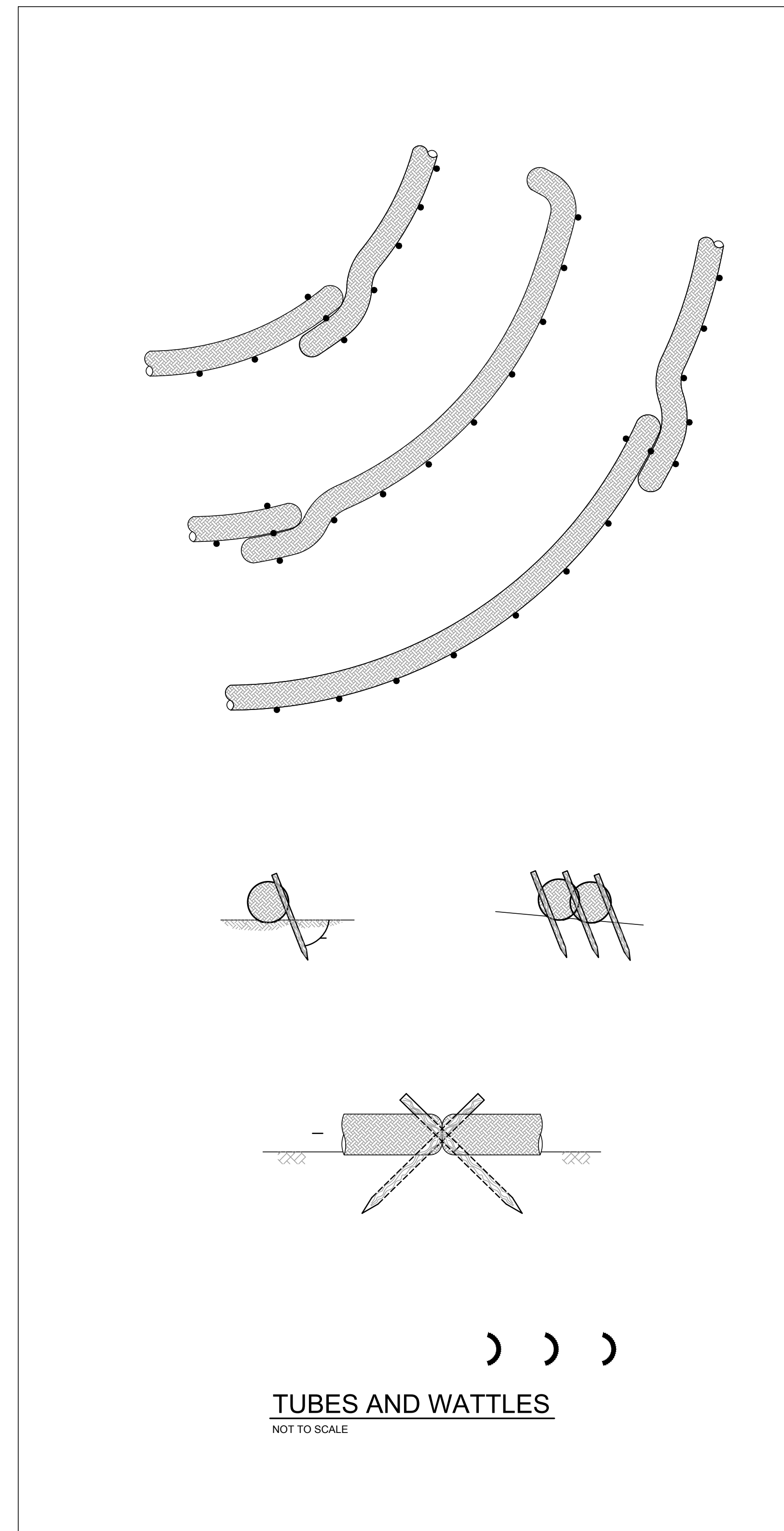
PLAN VIEW OF TEMPORARY CONSTRUCTION ROAD



SECTION A-A



**TUBES AND WATTLES**  
NOT TO SCALE



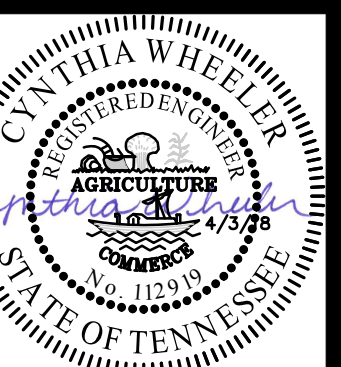
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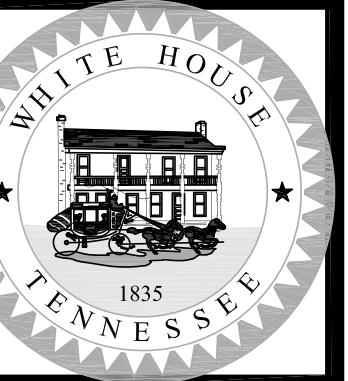


**2018 CITY-WIDE  
SEWER SYSTEM IMP  
SWPPP DETAILS**

**SHEET  
C-602**

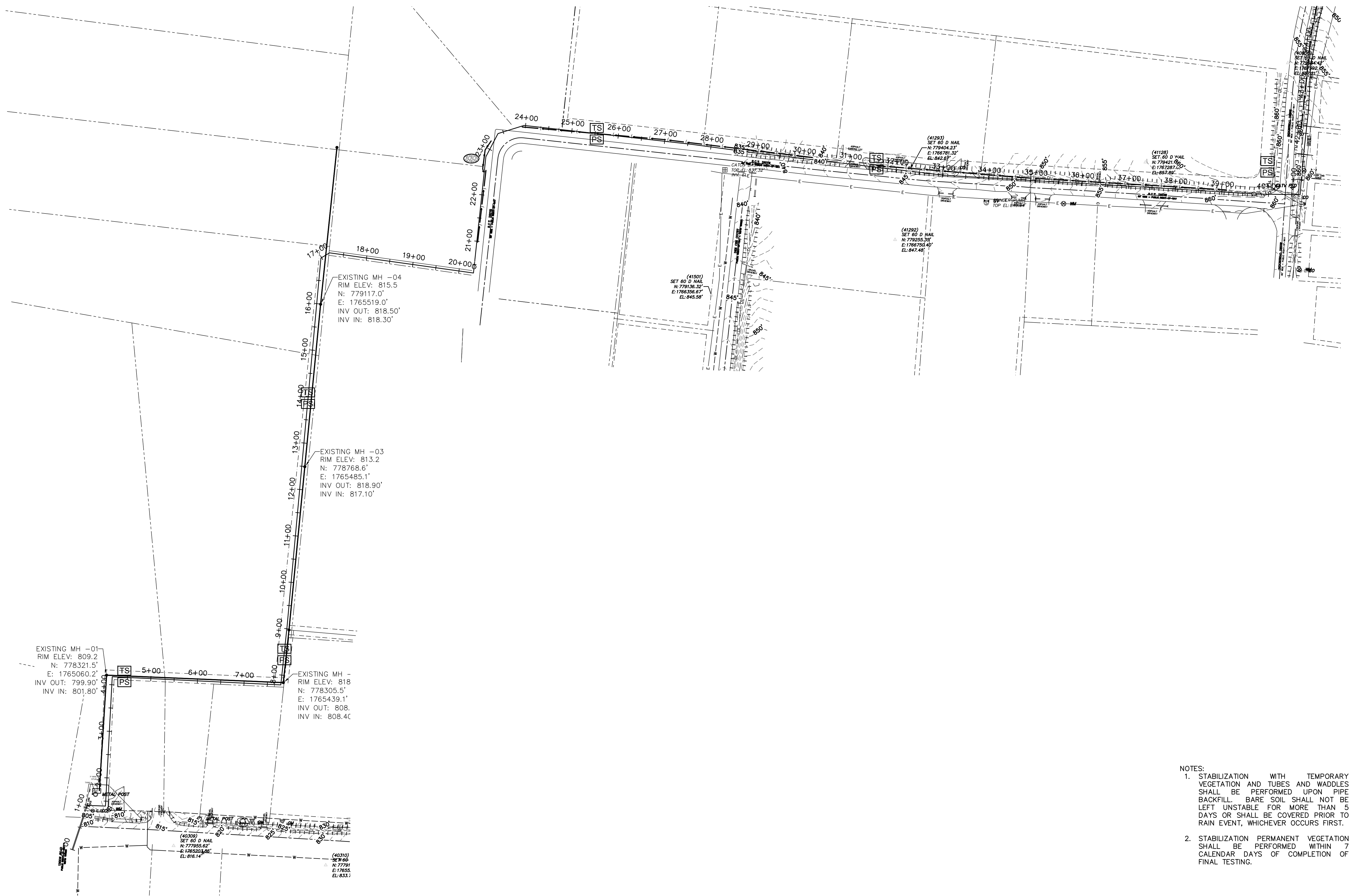


NO.	DATE	BY	REVISION DESCRIPTION



2018 CITY-WIDE  
 SEWER IMPROVEMENTS  
 SWPPP UNION RD

SHEET  
 C-701



- NOTES:
1. STABILIZATION WITH TEMPORARY VEGETATION AND TUBES AND WADDLES SHALL BE PERFORMED UPON PIPE BACKFILL. BARE SOIL SHALL NOT BE LEFT UNSTABLE FOR MORE THAN 5 DAYS OR SHALL BE COVERED PRIOR TO RAIN EVENT, WHICHEVER OCCURS FIRST.
  2. STABILIZATION PERMANENT VEGETATION SHALL BE PERFORMED WITHIN 7 CALENDAR DAYS OF COMPLETION OF FINAL TESTING.

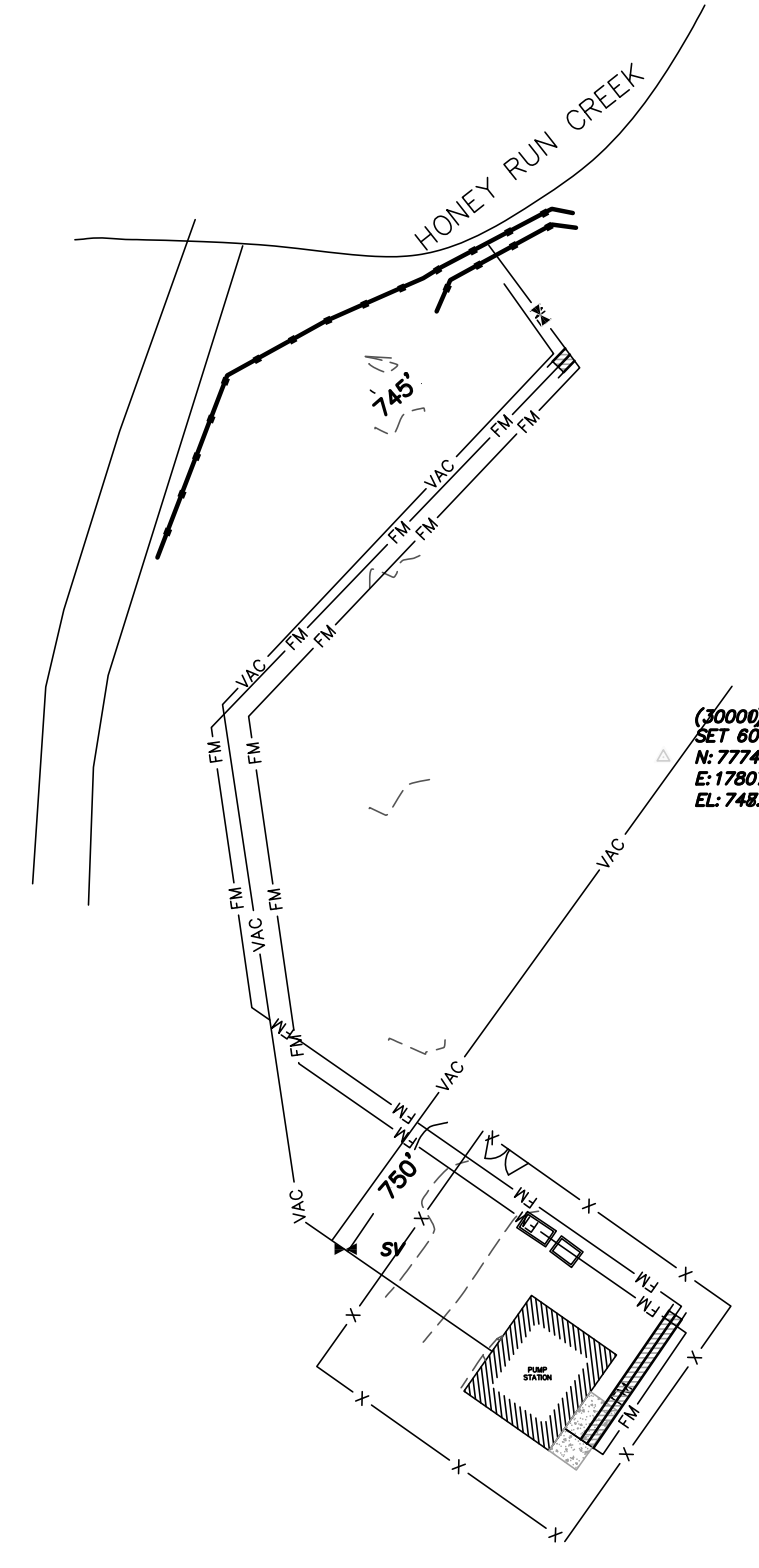
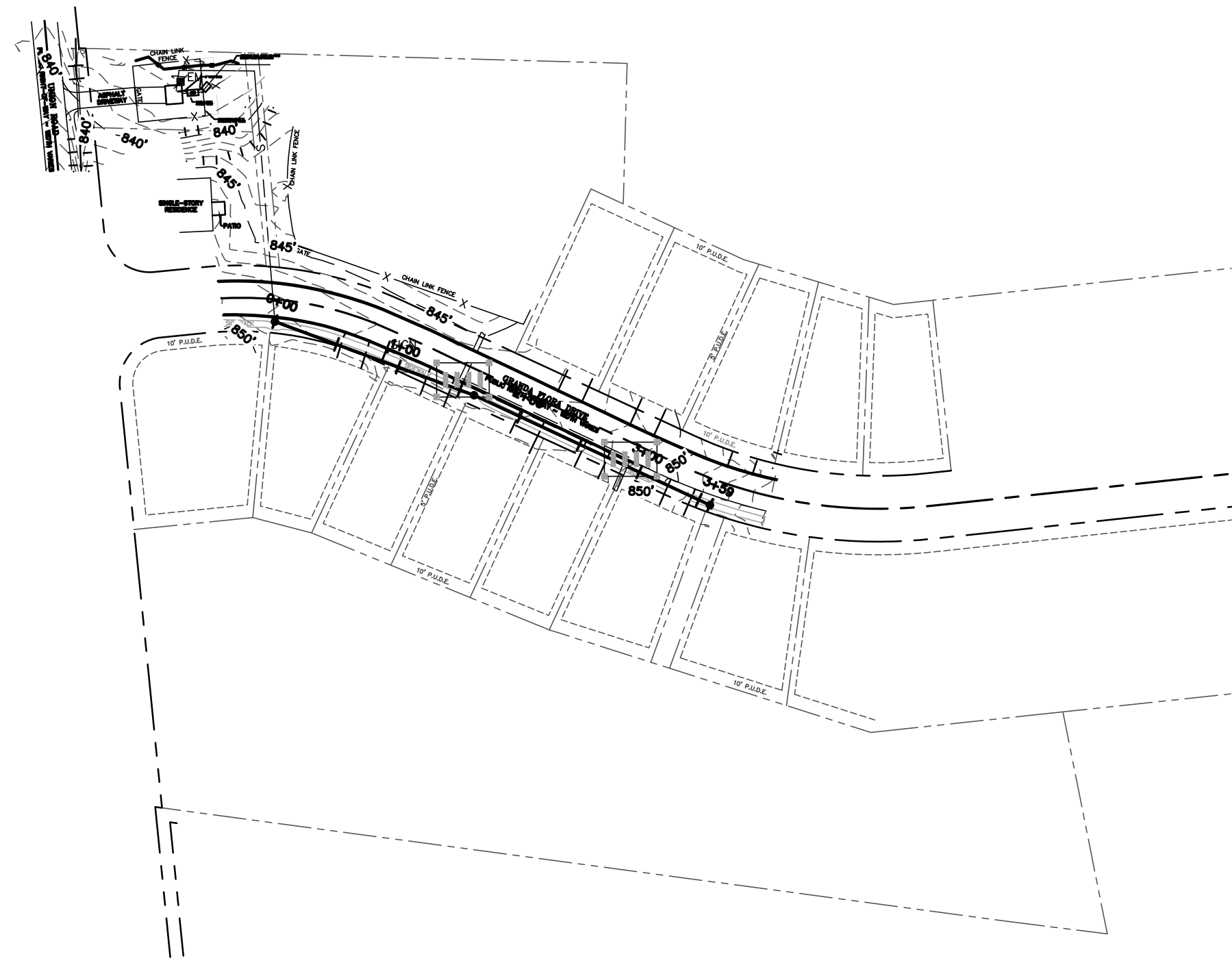
**EROSION CONTROL LEGEND:**

	STABILIZATION WITH TEMPORARY VEGETATION
	STABILIZATION WITH PERMANENT VEGETATION
	TUBES AND WADDLES
	SILT FENCE
	HARDWARE CLOTH AND GRAVEL INLET PROTECTION
	FILTER RING

NO.	DATE	BY	REVISION DESCRIPTION

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(30002)  
 SET 60 D MAIL  
 N: 77552.89'  
 E: 1780885.57'  
 EL: 746.42'

(30001)  
 SET 60 D MAIL  
 N: 775401.82'  
 E: 1780795.86'  
 EL: 748.78'

- NOTES:
1. STABILIZATION WITH TEMPORARY VEGETATION AND TUBES AND WADDLES SHALL BE PERFORMED UPON PIPE BACKFILL. BARE SOIL SHALL NOT BE LEFT UNSTABLE FOR MORE THAN 5 DAYS OR SHALL BE COVERED PRIOR TO RAIN EVENT, WHICHEVER OCCURS FIRST.
  2. STABILIZATION PERMANENT VEGETATION SHALL BE PERFORMED WITHIN 7 CALENDAR DAYS OF COMPLETION OF FINAL TESTING.

**EROSION CONTROL LEGEND:**

- STABILIZATION WITH TEMPORARY VEGETATION
- STABILIZATION WITH PERMANENT VEGETATION
- OUTLET PROTECTION
- TUBES AND WADDLES
- SILT FENCE
- HARDWARE CLOTH AND GRAVEL INLET PROTECTION

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SWPPP GRANDA  
 FLORA/ No PALMERS  
 CHAPEL

SHEET  
 C-703



NO.	DATE	BY	REVISION DESCRIPTION

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