### VILLAGE OF WILLIAMSBURG

### CLERMONT COUNTY, OHIO SIXTH STREET IMPROVEMENTS AND N. BROADWAY WATER MAIN IMPROVEMENTS

231940

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### VILLAGE ADMINISTRATOR

**VILLAGE OF WILLIAMSBURG OFFICIALS** 

<u>MAYOR</u> JIM WEAVER

ANDREW GEPHARDT

### CITY COUNCIL MEMBERS

MARK HERREN

KATIE KING

RANDY MERCER

GEORGE SEIP

JACOB SIMPSON

TIM WOOD

### **VILLAGE SOLICITOR**

CHRISTOPHER MOORE

### **PUBLIC WORKS SUPERVISOR**

KYLE CRIBBET



### **VICINITY MAP**

### O.D.O.T. SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION AND THE CLERMONT COUNTY ENGINEER'S OFFICE, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO AND THE VILLAGE OF WILLIAMSBURG REQUIREMENTS SHALL GOVERN THIS IMPROVEMENT.

### **SOURCE OF BOUNDARY INFORMATION**

THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED UPON G.I.S. MAPPING AND DOES NOT REPRESENT AN ACTUAL FIELD BOUNDARY SURVEY BY CT CONSULTANTS, INC.

### ENGINEER:

OFFICE:

**APPROVALS:** 

CT CONSULTANTS, INC.
INTEGRITY TOWER BLDG.
4420 COOPER ROAD
CINCINNATI, OHIO 45242

VILLAGE OF WILLIAMSBURG

107 WEST MAIN STREET WILLIAMSBURG, OH 45176

(513) 724-6107 PHONE

(513) 791-1700 PHONE (513) 791-1936 FAX

SHAWN RIGGS, P.E.



PE84714

CIVIL

SHEET NAME

#84714

#84714

PROJECT NO.

231940

DISCIPLINE

11

OHIO Utilities Protection SERVICE Call Before You Dig

CALL TWO WORKING DAYS BEFORE YOU DIG (NON MEMBERS MUST BE CALLED DIRECTLY)

- UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
- 2. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 8-1-1 OR 1-800-362-2764, AT LEAST TWO WORKING DAYS, BUT NOT MORE THAN 10 WORKING DAYS PRIOR TO CONSTRUCTION.

**GENERAL NOTES** 

- EXPANSION MATERIAL SHALL BE FLEXIBLE FOAM MATERIAL. IN ACCORDANCE WITH THE ODOT CMS, INSTALLED IN AREAS OF CONCRETE WALK, DRIVES OR
- A. AT ALL FIXED OBJECTS (I.E. UTILITY COVERS, VALVES, MANHOLES, ETC.)

CURB/GUTTER ONLY AT THE FOLLOWING:

- B. AT ALL RIGID STRUCTURES (I.E. DRIVES, CURBS, STEPS, ETC.) PAYMENT FOR THIS ITEM AND ZIP STRIPS INCLUDED IN THE PERTINENT CONCRETE PAVEMENT UNIT PRICE.
- C. AT ALL STREET INTERSECTIONS AT THE POINT OF CURVATURE OF THE TURNING RADII ENTERING THE INTERSECTION.
- D. NO CONCRETE SHALL BE LEFT ABOVE THE EXPANSION MATERIAL OR ACROSS THE JOINT AT ANY POINT. ANY CONCRETE SPANNING THE ENDS OF THE JOINT NEXT TO THE FORMS SHALL BE CAREFULLY CUT AWAY AFTER THE FORMS ARE REMOVED. BEFORE THE PAVEMENT IS OPENED TO TRAFFIC, THE GROOVE ABOVE THE EXPANSION JOINT MATERIAL SHALL BE CLEANED AND SEALED WITH JOINT SEALING MATERIAL.
- ALL DISTURBED AREAS ARE TO BE RESTORED (SEEDED, MULCHED, AND FERTILIZED) BY THE CONTRACTOR AND SHALL PROCEED WITH JOB PROGRESSION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING ANY EXCESS MATERIALS AT THE SITE AND MAINTAINING ALL SEEDED AND MULCHED AREAS UNTIL PROJECT COMPLETION AND FINAL INSPECTION BY THE ENGINEER. A RESIDENTIAL YARD SHALL BE RESTORED WITHIN TWENTY-ONE (21) DAYS AFTER CONSTRUCTION. THIS WORK SHALL BE INCIDENTAL TO THE OVERALL CONTRACT. THE OWNER/ENGINEER SHALL DETERMINE ALL AREAS REQUIRING SEEDING, MULCHING, AND FERTILIZER PERTINENT TO THIS CONTRACT.
- ALL APPLICABLE RECOMMENDATIONS IN OHIO RAINWATER AND LAND DEVELOPMENT MANUAL SHALL BE FOLLOWED BY THE CONTRACTOR. INCLUDING SEEDING OF DISTURBED GROUND.
- RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE PLOTTED FROM CLERMONT COUNTY G.I.S. MAPPING AND ARE APPROXIMATE AND NOT THE RESULT OF A FIELD BOUNDARY SURVEY.
- THE CONTRACTOR SHALL LIMIT THEIR WORK AREA TO THE EASEMENTS AND RIGHTS-OF-WAY SHOWN ON THESE PLANS UNLESS WRITTEN PERMISSION IS GIVEN BY THE PROPERTY OWNER AND APPROVED BY THE VILLAGE.
- ALL OSHA, STATE AND LOCAL SAFETY REGULATIONS SHALL BE FOLLOWED DURING CONSTRUCTION.
- RELOCATION OR REINSTALLATION OF EXISTING MAIL BOXES, PRIVATE LANDSCAPE LIGHTS, PRIVATE SIGNS, STREET SIGNS, RESTORATION OF LANDSCAPING AND TREATMENT OF EXISTING WALLS WHERE A PORTION HAS BEEN REMOVED SHALL BE INCIDENTAL TO CLEARING AND GRUBBING.
- NO CONSTRUCTION SHALL COMMENCE UNTIL ALL COUNTY, STATE AND VILLAGE PERMITS HAVE BEEN ISSUED, AS REQUIRED. THE CONTRACTOR SHALL PAY ALL CHARGES AND FEES ASSOCIATED WITH THE PERMITS.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE VILLAGE. ROAD CLOSURE SHALL BE UTILIZED ON BOTH STREETS WHILE ACCESS FOR STREET RESIDENTS MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THESE

### MATERIALS AND SPECIFICATIONS

JNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE NEW, AND BOTH WORKMANSHIP AND MATERIALS SHALL BE OF PREMIUM QUALITY, PROPER AND SUFFICIENT FOR THE PURPOSE INDICATED. THE CONTRACTOR SHALL FURNISH, UPON REQUEST, SATISFACTORY EVIDENCE AS TO TYPE AND QUALITY OF MATERIAI S AND WORKMANSHIP

ALL ITEMS AND/OR MATERIAL PROPOSED BY THE CONTRACTOR FOR SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER AND OWNER IN WRITING ND SHALL BE EQUAL OR SUPERIOR TO THE ITEMS SPECIFIED IN THE CONTRACT DOCUMENTS. IF SAID SUBSTITUTION PROPOSED BY THE CONTRACTOR FOR A SPECIFIED ITEM REQUIRES ENGINEERING REVISIONS. THE TOTAL EXPENSE OF SAID REVISIONS SHALL BE PAID BY THE CONTRACTOR.

ANY ITEMS OF LABOR AND MATERIALS REQUIRED BUT NOT SHOWN AS A SEPARATE PAY ITEM IN THE PROPOSAL SHALL BE FURNISHED AND INSTALLED AS INCIDENTAL TO THE CONTRACT, EXCEPT AS NOTED IN THE PLANS AND SPECIFICATIONS.

### **TESTING**

THE CONTRACTOR SHALL INCLUDE THE COST OF ALL REQUIRED TESTS IN THE UNIT PRICE BID FOR THE PERTINENT ITEM AND NO SEPARATE COMPENSATION IS TO BE MADE FOR SAID TESTING.

### VILLAGE OWNED TRAFFIC SIGNS

TRAFFIC SIGNS THAT ARE NOT INTENDED TO BE REUSED SHALL BE CAREFULLY REMOVED, CLEANED AND DELIVERED TO THE VILLAGE MAINTENANCE GARAGE FOR INSPECTION AND STORAGE. IF ANY OF THOSE ITEMS GET DAMAGED BY THE CONTRACTOR THEY SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE VILLAGE.

### RESPONSIBILITY

SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THEIR WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FEATURE, (I.E. EXISTING INLETS, CONDUITS, ETC.) WHICH IS NOT MARKED FOR REPLACEMENT OR REMOVAL. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE OPERATIONS OF THE CONTRACTOR, THEY SHALL REPLACE THE DAMAGED PORTION AT THEIR EXPENSE

THE CONTRACTOR SHALL EXERCISE DUE CARE DURING CONSTRUCTION SO AS NOT TO DESTROY ANY TREES, PLANTS, SHRUBS OR STRUCTURES OUTSIDE OF THE INDICATED WORK LIMITS AND THOSE NOT SPECIFICALLY MARKED FOR REMOVAL OR RELOCATION WITHIN THE WORK LIMITS.

IN SOME INSTANCES, THE CONTRACTOR WILL BE REQUIRED TO EXCAVATE UNDER AND AROUND THE EXISTING UTILITIES. EXTREME CARE SHOULD BE USED NOT TO DAMAGE THE UTILITY DURING THIS OPERATION.

### STORM WATER POLLUTION, EROSION CONTROL AND DUST CONTROL

THE CONTRACTOR SHALL TAKE EXTREME CARE AND UTILIZE BEST MANAGEMENT PRACTICES TO CONTROL SEDIMENT AND EROSION DURING THE PROJECT AND TO PREVENT UNNECESSARY EROSION AND SILTATION AT ALL POINTS OF THE PROJECT. TEMPORARY SEEDING AND MULCHING; STRAW BALES, SLOPE DRAINS, SILT FENCE, INLET PROTECTION, ETC., SHALL BE USED AS NECESSARY OR AS DIRECTED BY THE OWNER/ENGINEER, THE COST OF WHICH SHALL BE INCIDENTAL TO THE OVERALL CONTRACT PRICE.

DUST SHALL BE KEPT TO A MINIMUM. COST OF EQUIPMENT, WATER, LABOR AND MATERIAL, ETC. REQUIRED TO PERFORM DUST CONTROL SHALL BE INCIDENTAL TO THE OVERALL BID PRICE.

### COORDINATION WITH OTHER CONTRACTORS

THE CONTRACTOR SHALL COORDINATE WORK ACTIVITIES WITH ALL OTHER CONTRACTORS AND/OR UTILITY COMPANIES THAT MAY BE WORKING IN THE AREA.

**GENERAL NOTES** 

### DOWN TIME DUE TO FIELD CONFLICTS

DURING THE CONSTRUCTION ACTIVITIES OF THIS PROJECT, THERE MAY BE TIMES WHEN THE CONSTRUCTION IN SOME AREAS MAY NEED TO BE SUSPENDED PENDING RESPONSE ON, OR RESOLUTION TO AN ISSUE FROM THE OWNER AND/OR ENGINEER. THE CONTRACTOR, IN THIS CASE SHALL MOVE THE CREWS AND EQUIPMENT TO WORK IN A DIFFERENT AREA OR ON A DIFFERENT TASK. COST OF MOBILIZING AND DEMOBILIZING OF THE CONTRACTORS WORK CREWS AND EQUIPMENT INCLUDING "DOWNTIME" SHALL BE INCIDENTAL TO THE OVERALL BID PRICE FOR THIS PROJECT.

### **UTILITY NOTES**

- THIS PLAN SHOWS THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES (GAS, WATER, STORM SEWER, SANITARY SEWER, TELEPHONE, ELECTRIC, ETC.). THE PREPARER DOES NOT GUARANTEE THEIR ACCURACY OR CORRECTNESS. THE UTILITY INFORMATION PROVIDED ON THE PLANS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE UTILITY AS WELL AS THE SERVICE LATERALS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PRACTICE CARE DURING THE GRADING AND TRENCH EXCAVATION AND SHALL BE RESPONSIBLE FOR REPLACING ANY SERVICES THAT ARE DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.
- PRIOR TO ANY EXCAVATION OVER AN EXISTING UTILITY LINE OR SERVICE, CONTRACTOR SHALL HAND EXCAVATE TO EXPOSE THE UTILITY AND DETERMINE LOCATION AND DEPTH. NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS.
- TOPS OF EXISTING AND PROPOSED CASTING ELEVATIONS ARE SUBJECT TO FINAL ADJUSTMENTS AS APPROVED BY THE ENGINEER AND REQUIREMENTS OF UTILITY OWNER. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT.
- FORTY-EIGHT (48) HOURS BEFORE EXCAVATION IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE OHIO UTILITY PROTECTION SERVICE AND ALL OTHER UTILITIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF OHIO UNDERGROUND PROTECTION.

VITHIN 10 DAYS OF THE AWARD OF THE CONTRACT, THE OWNER SHALL NOTIFY ALL UTILITIES OF THE NAME, ADDRESS AND PHONE NUMBER OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE REGISTERED JNDERGROUND UTILITY PROTECTION SERVICE AND NON-MEMBER OWNERS OF THE STARTING DATE AT LEAST TWO WORKING DAYS PRIOR TO STARTING WORK. THE UTILITY SHALL MARK, STAKE OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND FACILITIES WITHIN 48 HOURS OF RECEIVING THE CONTRACTORS NOTICE OF A STARTING DATE. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

DURING CONSTRUCTION, THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE OWNERS OF THE UNDERGROUND FACILITIES ANY BREAK OR LEAK IN THE FACILITIES, OR ANY DENT, GOUGE, GROOVE OR OTHER DAMAGE. THE CONTRACTOR SHALL NOTIFY NEARBY OCCUPANTS OF ANY EMERGENCY SITUATION THAT MAY ARISE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITY ACTIVITIES AND SCHEDULES.

### CONNECTIONS

THE EXISTING ELEVATION AND LOCATION AT THE CONNECTION POINT WITH A STORM OR WATER MAIN WAS ASSUMED AND HAS NOT BEEN FIELD VERIFIED. PRIOR O COMMENCEMENT OF ANY UTILITY WORK, THE CONTRACTOR SHALL DIG A TEST HOLE AT THE CONNECTION POINT TO LOCATE EXISTING FACILITY AS TO LOCATION AND ELEVATION. THE EXISTING LOCATION MAY REQUIRE SOME FIELD ADJUSTMENT TO THE PROPOSED STORM OR WATER MAIN INCLUDING ADJUSTING THE DEPTH OF THE PROPOSED UTILITY. COST OF DOING THE ABOVE SHALL BE INCIDENTAL TO THE PERTINENT PAY ITEM.

### **REE TRIMMING/CLEARING**

COST OF TRIMMING OR CLEARING ANY TREES, BUSHES, ETC. SHALL BE INCIDENTAL TO THE OVERALL CONTRACT PRICE AND SHALL BE APPROVED BY THE VILLAGE AND THE PROPERTY OWNER.

### MANHOLES, CATCH BASINS AND INLETS

ALL CASTINGS FOR MANHOLES, CATCH BASINS AND INLETS SHALL CONFORM TO THOSE SPECIFIED IN THE STANDARD CONSTRUCTION DRAWINGS. ALL CASTINGS WHICH MIGHT BE SUBJECT TO VEHICLE TRAFFIC SHALL BE OF THE HEAVY DUTY GRADE. GRATED INLET TOPS SHALL BE PLACED AS SPECIFIED ON THE PLANS.

TOP OF CASTING ELEVATIONS ARE SUBJECT TO FINAL ADJUSTMENTS AS APPROVED BY THE OWNER / ENGINEER. ALL MANHOLES WITHIN WALK AREA SHALL HAVE A FLAT FLUSH COVER. ALL CASTINGS USED SHALL BE SUBJECT TO THE FINAL APPROVAL OF THE OWNER / ENGINEER. CONTRACTOR SHALL ENSURE ALL EXISTING MANHOLE LIDS ARE FREE OF ASPHALT MATERIAL AFTER PAVING AND ARE ABLE TO BE OPENED. IF ANY ASPHALT MATERIAL REMAINS ON THE LIDS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AT THE CONTRACTOR'S

CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STORM AND SANITARY SEWER FLOW THROUGHOUT THE PROJECT, FOR THE DURATION OF CONSTRUCTION. ALL COST FOR THE ABOVE SHALL BE INCIDENTAL TO THE

STORM & SANITARY NOTES

### **REVIEW OF DRAINAGE FACILITIES**

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE VILLAGE, THE CONTRACTOR WITH THE OWNER AND ENGINEER OR FIELD INSPECTOR SHALL MAKE AN INSPECTION OF THE EXISTING SEWERS WITHIN THE WORK LIMITS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTIONS SHALL BE KEPT IN WRITING BY THE CONTRACTOR.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE VILLAGE.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCIDENTAL TO THE CONTRACT.

### **CONTINGENCY QUANTITIES**

ITEM 614, MAINTAINING TRAFFIC

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR PLAN ITEMS SET UP TO BE USED " AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE OWNER / ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE FIELD INSPECTOR'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT. CONTINGENCY QUANTITIES HAVE BEEN PROVIDED AS NOTED BELOW AND

SHALL BE USED AT THE DISCRETION OF THE OWNER ENGINEER:

### **MAINTENANCE OF TRAFFIC NOTES**

### THE MAINTENANCE OF TRAFFIC PROCEDURES SHALL MEET THE

REQUIREMENTS AS INDICATED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", CURRENT EDITION, THE PROPOSAL, THE SPECIFICATIONS, AND THESE PLANS. ANY VARIANCE FROM THESE REQUIREMENTS SHALL BE APPROVED IN ADVANCE BY THE ENGINEER

THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL TRAFFIC (ACCESS TO RESIDENCES WITHIN CONSTRUCTION LIMITS) AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT SIGN, WARNING LIGHTS, BARRICADES, OR OTHER NECESSARY DEVICES MAKE THE SITE SAFE TO THE TRAVELING PUBLIC.

SPECIFIC ATTENTION WILL BE DIRECTED TOWARD THE PROPER USE OF FLAGGERS, LIGHTS, DRUMS, AND TEMPORARY PAVEMENT MARKINGS. THE CONTRACTOR SHALL FURNISH. ERECT AND MAINTAIN ALL NECESSARY SIGNS. AND PROVIDE TEMPORARY STRIPING. ALL WORK ZONES SHALL CONFORM TO THE OHIO MANUAL OF UNIFORM CONTROL DEVICES. THE CONTRACTOR SHALL ALSO PROVIDE ALL PLATING, TEMPORARY PAVEMENT, TEMPORARY PAVEMENT MARKINGS, AND TRAFFIC CONTROL MEASURES NECESSARY TO MAINTAIN TRAFFIC. THE COST OF ALL TEMPORARY TRAFFIC CONTROL ITEMS NECESSARY TO SAFELY MAINTAIN TRAFFIC SHALL BE INCLUDED WITH PAYMENT FOR ITEM 614 MAINTAINING TRAFFIC.

- BEFORE WORK BEGINS. THE CONTRACTOR SHALL SUBMIT TO THE OWNER AND ENGINEER THE NAMES AND TELEPHONE NUMBERS OF PERSONS WHO CAN BE CONTACTED 24 HOURS A DAY BY THE VILLAGE FIRE AND POLICE DEPARTMENTS. THESE PERSONS SHALL BE RESPONSIBLE FOR PLACING OR REPLACING NECESSARY TRAFFIC CONTROL DEVICES TO MAINTAIN THE TRAVELED PAVEMENT SAFELY.
- B. TRAFFIC SHALL BE MAINTAINED AT ALL INTERSECTIONS AND DRIVES AT ALL TIMES, AND SHALL BE CONTROLLED WITH FLAGGERS AND TRAFFIC CONTROL DEVICES AS REQUIRED AND SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER AND ENGINEER.
- LANE CLOSURES THAT LIMIT TRAFFIC TO 1 WAY IS ALLOWABLE, AS NOTED BELOW FOR SPECIFIC TIMES, AND SHALL BE FLAGGED IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- D. LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE OWNER AND ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME. AS DETERMINED BY THE OWNER AND ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.
- G. IN ADDITION LANE CLOSURES ARE NOT ALLOWED OVERNIGHT. ANY COST FOR ITEMS NOT SPECIFICALLY NOTED UNDER THE MAINTENANCE OF TRAFFIC NOTE REQUIRED TO REOPEN LANES SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 614 - MAINTENANCE OF TRAFFIC.

THE CONTRACTOR SHALL OBEY ALL LOCAL LAWS AND ORDINANCES NCLUDING ANY NOISE RESTRICTIONS.

THE CONTRACTOR SHALL MAINTAIN TRAFFIC TO ALL ROADWAYS INTERSECTING THE CONSTRUCTION AREAS.

MAINTENANCE OF TRAFFIC SHALL BE ONGOING THROUGH THE PROJECT, INCLUDING ALL PERIODS OF INACTIVITY BY THE CONTRACTOR, UNTIL FINAL ACCEPTANCE OF THE PROJECT.

### THE CONTRACTOR SHALL NOTIFY AFFECTED RESIDENTS 48 HOURS IN **ADVANCE BEFORE COMMENCING WORK.**

TEMPORARY BLOCKING OF THE DRIVEWAY TO ANY RESIDENTIAL PROPERTY DURING CONSTRUCTION IS ALLOWABLE (MAX. 96 HOURS). HOWEVER, ACCESS TO PROPERTIES FOR DELIVERIES, SERVICE, EMERGENCY VEHICLES, ETC., SHALL BE MAINTAINED AT ALL TIMES. IN ADDITION, THE CONTRACTOR MUST NOTIFY ALL RESIDENTS IN WRITING 48 HOURS BEFORE COMMENCING TO ALLOW THEM ADEQUATE TIME TO MOVE ANY VEHICLE IN OR OUT.

THE CONTRACTOR SHALL ALSO GIVE A COPY OF SAID WRITTEN NOTICE TO THE FIELD INSPECTOR AND OWNER 48 HOURS PRIOR TO BEING ALLOWED TO COMMENCE WORK WHICH WOULD INVOLVE ACCESS TO SAID PROPERTY.

### MAINTAINING WATER SERVICE

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ADEQUATE WATER SUPPLY TO CONSUMERS AND FOR FIRE-FIGHTING PURPOSES. THE CONTRACTOR MUST SCHEDULE HIS OPERATIONS TO ENSURE THAT WATER SERVICES AND FIRE HYDRANTS WILL NOT BE OUT OF SERVICE FOR MORE THAN THE LENGTH OF TIME WHICH, IN THE OPINION OF THE ENGINEER, IS REQUIRED FOR MAKING NECESSARY CONNECTIONS.

WATER MAIN CONSTRUCTION

### AIR COCKS

AIR COCKS SHALL BE PROVIDED AND INSTALLED WHERE SHOWN ON THE PLANS AND OTHER HIGH SPOTS THAT MAY OCCUR IN LAYING OF PIPE. THE CONTRACTOR WILL INSTALL AIR COCKS IN P.V.C. PIPE. THE COST SHALL BE INCLUDED IN THE CONTRACT PRICE FOR BID ITEM 1100, WATER LINES, INSTALLATION.

### **OPEN TRENCHES**

ALL OPEN TRENCHES FOR WATERMAINS SHALL BE PROPERLY DELINEATED FROM THE TRAVELED ROADWAY BY REFLECTIVE DRUMS. TRENCHES SHALL EITHER BE BACKFILLED OR COVERED FOR ANY EXTENDED PERIODS OF NO CONSTRUCTION.

### **GENERAL**

- WATERLINES CROSSING UNDER OR OVER SEWER LINES (DEFINED AS ANY SANITARY/COMBINED SEWER, SEPTIC TANK OR SUBSOIL TREATMENT SYSTEM) MUST MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 18" AND ONE FULL LENGTH OF PIPE SHALL BE LOCATED SO BOTH JOINTS ARE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING FIELD NOTES THAT PROVIDE SUFFICIENT DATA FOR PREPARING "RECORD DRAWINGS" UPON COMPLETION OF CONSTRUCTION.
- ALL WATER MAIN CONSTRUCTION SHALL CONFORM TO COUNTY AND VILLAGE SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CURRENT COPY OF THE STANDARD DRAWINGS AND SPECIFICATIONS.
- COST OF ALL TRENCHING, PIPE RESTRAINT MATERIALS, AIR COCKS, PIPE BEDDING, BACKFILL, REMOVAL AND REPLACEMENT OF LANDSCAPING/ SIGNS SHALL BE PART OF THE COST OF INSTALLING THE WATER MAIN.
- THE PROPOSED WATER MAIN SHALL BE PVC C-900 DR 18.
- PROPOSED WATER MAIN SHALL BE THOROUGHLY CLEANED.
- PRESSURE TESTING SHALL BE DONE AS PER THE VILLAGE OF WILLIAMSBURG
- THE PROPOSED WATER MAIN SHALL HAVE A HORIZONTAL SEPARATION OF AT LEAST 3'-0" (MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE) FROM ANY GAS MAIN.
- A 10' MINIMUM LATERAL SEPARATION BETWEEN WATER MAINS AND SEWERS (DEFINED AS ANY SANITARY/COMBINED SEWER, SEPTIC TANK OR SUBSOIL TREATMENT SYSTEM) AND SEWER MANHOLES, MEASURED FROM THE OUTSIDE DIAMETER TO OUTSIDE, MUST BE MAINTAINED, UNLESS OTHERWISE INDICATED ON THE PLANS.
- AFTER PROPOSED WATER MAIN IS TESTED AND APPROVED, THE EXISTING WATER MAIN SHALL REMAIN IN SERVICE UNTIL SUCH TIME THAT ALL NEW WATER SERVICES HAVE BEEN CONNECTED AND APPROVED. THEN AT SUCH TIME THE EXISTING WATER MAIN SHALL BE PLUGGED AND ABANDONED.
- ALL IMPACTED STORM SEWER RECONSTRUCTION ITEMS SHALL CONFORM WITH THE LATEST STANDARD DRAWINGS AND SPECIFICATIONS OF THE VILLAGE OF WILLIAMSBURG, CLERMONT COUNTY AND O.D.O.T.
- THE CONTRACTOR SHALL COORDINATE WITH THE VILLAGE OF WILLIAMSBURG FOR FIELD INSPECTIONS.
- PROPOSED SERVICES SHALL CONSIST OF FURNISHING AND INSTALLING 3/4" TYPE K COPPER OR 1-1/2" CTS PLASTIC SERVICE BRANCHES, AND SHALL INCLUDE NEW TAPPING SADDLES, COMPRESSION FITTINGS, CORPORATION STOPS, AND TRACER WIRE AS SHOWN ON THE PLANS.
- REPLACE AND RECONNECT SERVICE LINE, INCLUDES THE LABOR, EQUIPMENT EXCAVATION, BEDDING, BACKFILL AND YARD RESTORATION TO INSTALL THE SERVICE LINE AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED, IN ACCORDANCE WITH THE DETAILS ON THIS SHEET, SPECIFICATIONS AND STANDARD DRAWINGS, COMPLETE AND READY FOR USE. LEAD SERVICE LINES ENCOUNTERED BY THE EXCAVATION SHALL BE REPLACED FROM THE MAIN TO AND INCLUDING THE METER VAULT AND METER SETTING. PAID EACH (EA).

### —— — W — — W — — W — EXISTING WATER MAIN EXISTING STORM SEWER —— — RD — EXISTING ROOF DRAIN ———— S ————— S ————— S ———— EXISTING SANITARY SEWER ——— FM ——— FM ——— FM ——— EXISTING SANITARY FORCE MAIN — X — X — X — X — X — X — EXISTING FENCE — — — — — EXISTING EASEMENT . EXISTING GUARDRAIL EXISTING TREE LINE G PROPOSED GAS LINE GS GS GS GS FROPOSED GAS SERVICE PROPOSED STORM SEWER — — UD — UD — UD — PROPOSED UNDERDRAIN PROPOSED SANITARY SEWER FM PROPOSED SANITARY FORCE MAIN \_\_\_ x \_\_\_\_ x \_\_\_\_ x \_\_\_\_ x \_\_\_\_ x \_\_\_\_ x \_\_\_\_ PROPOSED FENCE PROPOSED CONTOURS (MAJOR)

PROPOSED RIGHT OF WAY

— — — — — — PROPOSED EASEMENT

EXISTING FLAGPOLE

EXISTING MAILBOX

EXISTING PULL BOX

EXISTING GROUND LIGHT

EXISTING ELECTRIC METER

EXISTING ELECTRIC MANHOLE

EXISTING LIGHT POLE

EXISTING GAS METER

EXISTING GAS VALVE

EXISTING GAS BOX

EXISTING UTILITY POLE

EXISTING GUY WIRE / ANCHOR

EXISTING SANITARY MANHOLE

EXISTING SANITARY CLEANOUT

EXISTING SINGLE / DOUBLE CURB INLET

EXISTING STORM MANHOLE

EXISTING STORM CLEANOUT

EXISTING TELEPHONE MANHOLE

EXISTING TELEPHONE PEDESTAL

EXISTING CATCH BASIN

EXISTING FIRE HYDRANT

EXISTING WATER METER

EXISTING WATER VALVE

EXISTING WATER MANHOLE

EXISTING BUSHES / TREES

TEST BORING LOCATION

EXISTING SURVEY BENCHMARK

EXISTING CABLE PEDESTAL

EXISTING ELECTRIC PEDESTAL

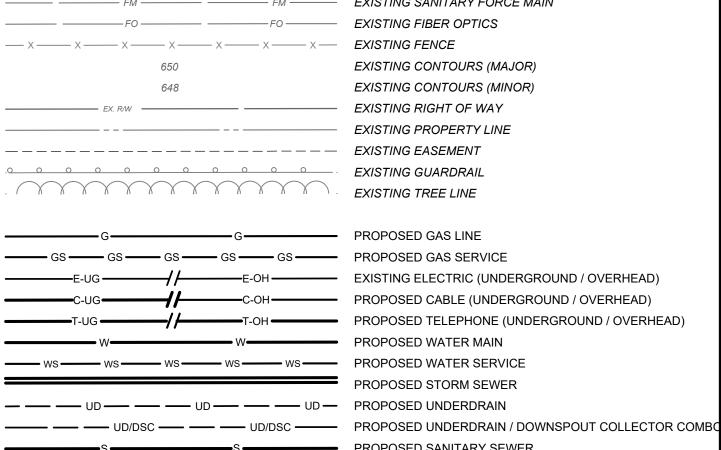
EXISTING SIGN

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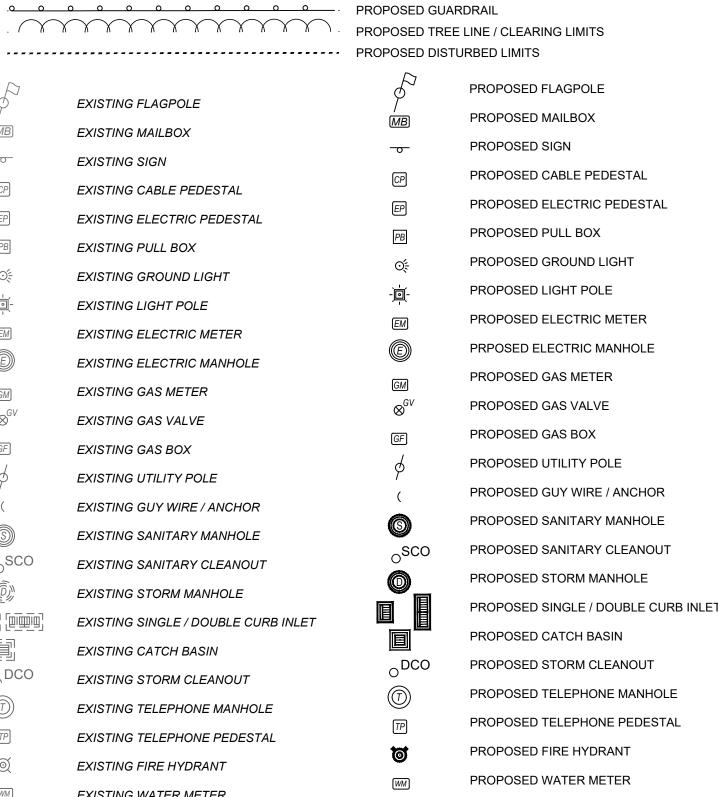
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———— GS ———— GS ————— GS ———— EXISTING GAS SERVICE



—— PROPOSED PROPERTY LINE

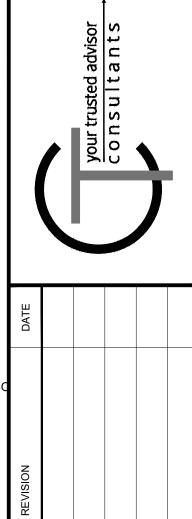
SYMBOL LEGEND

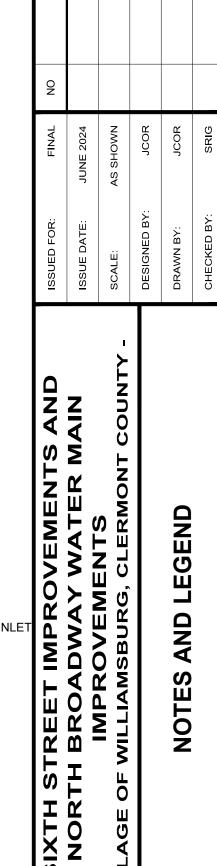


PROPOSED WATER VALVE

REMOVE EXISTING BUSH / TREE

PROPOSED SLOPE DIRECTION





PROJECT NO.

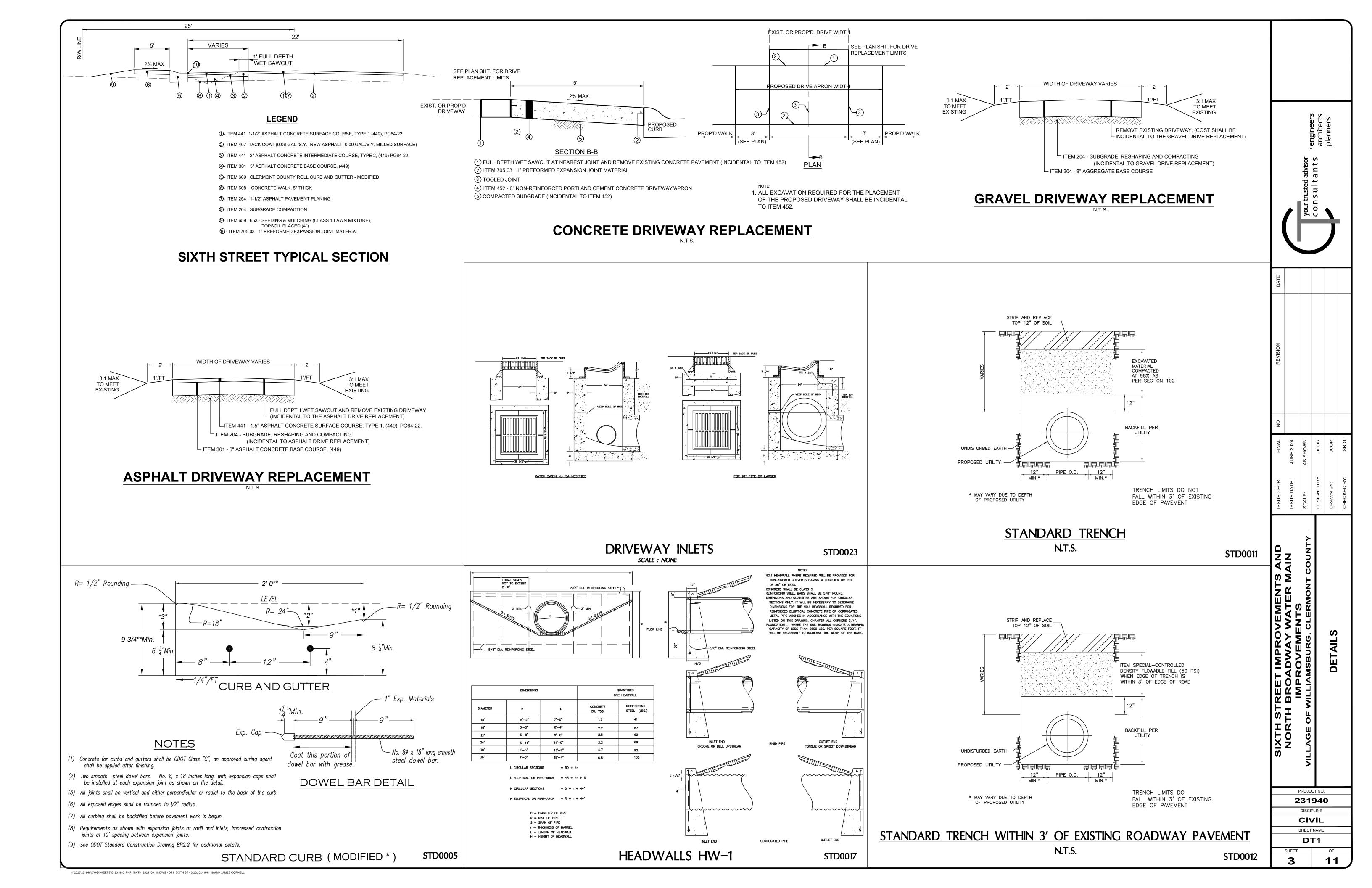
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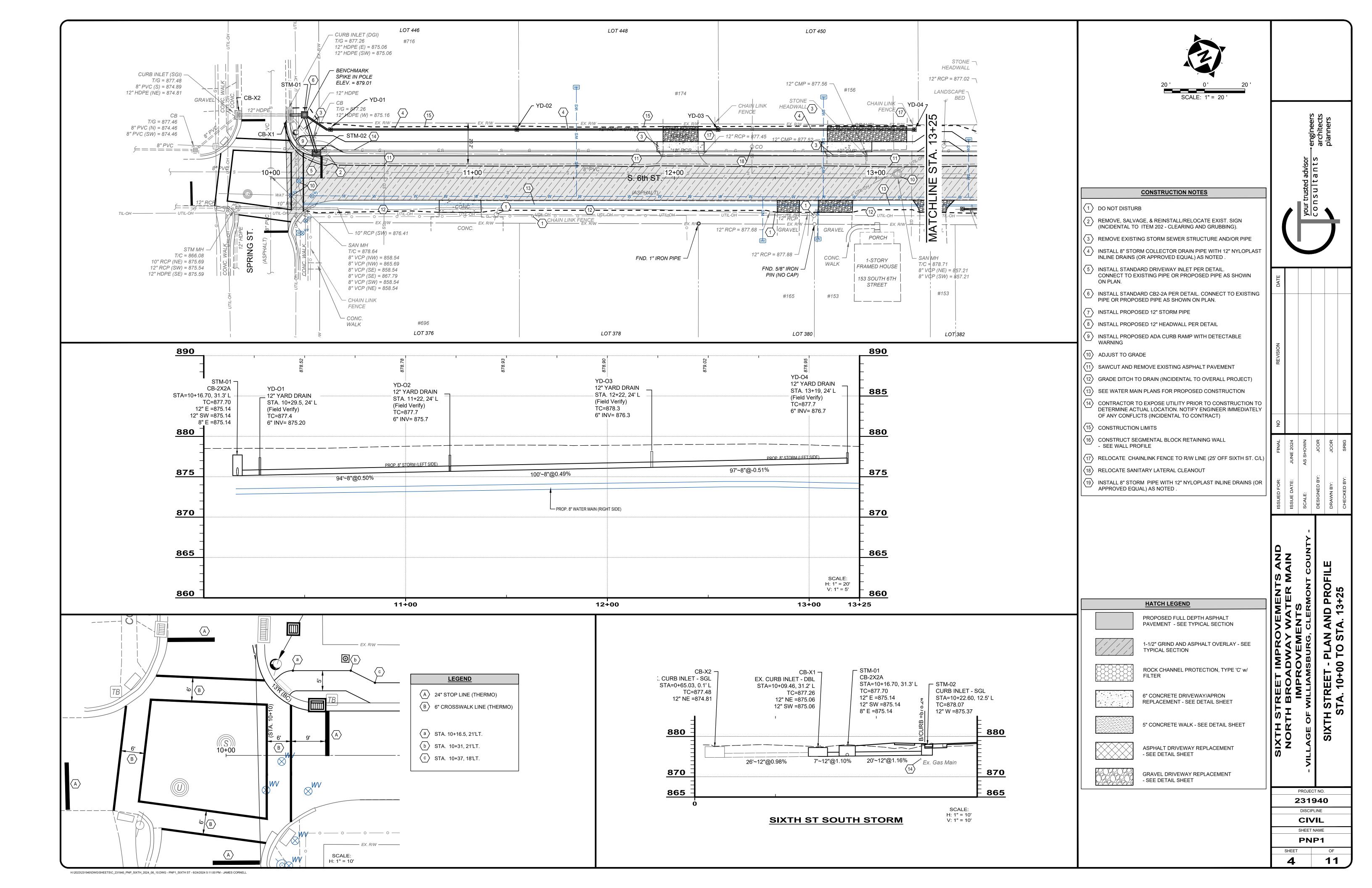
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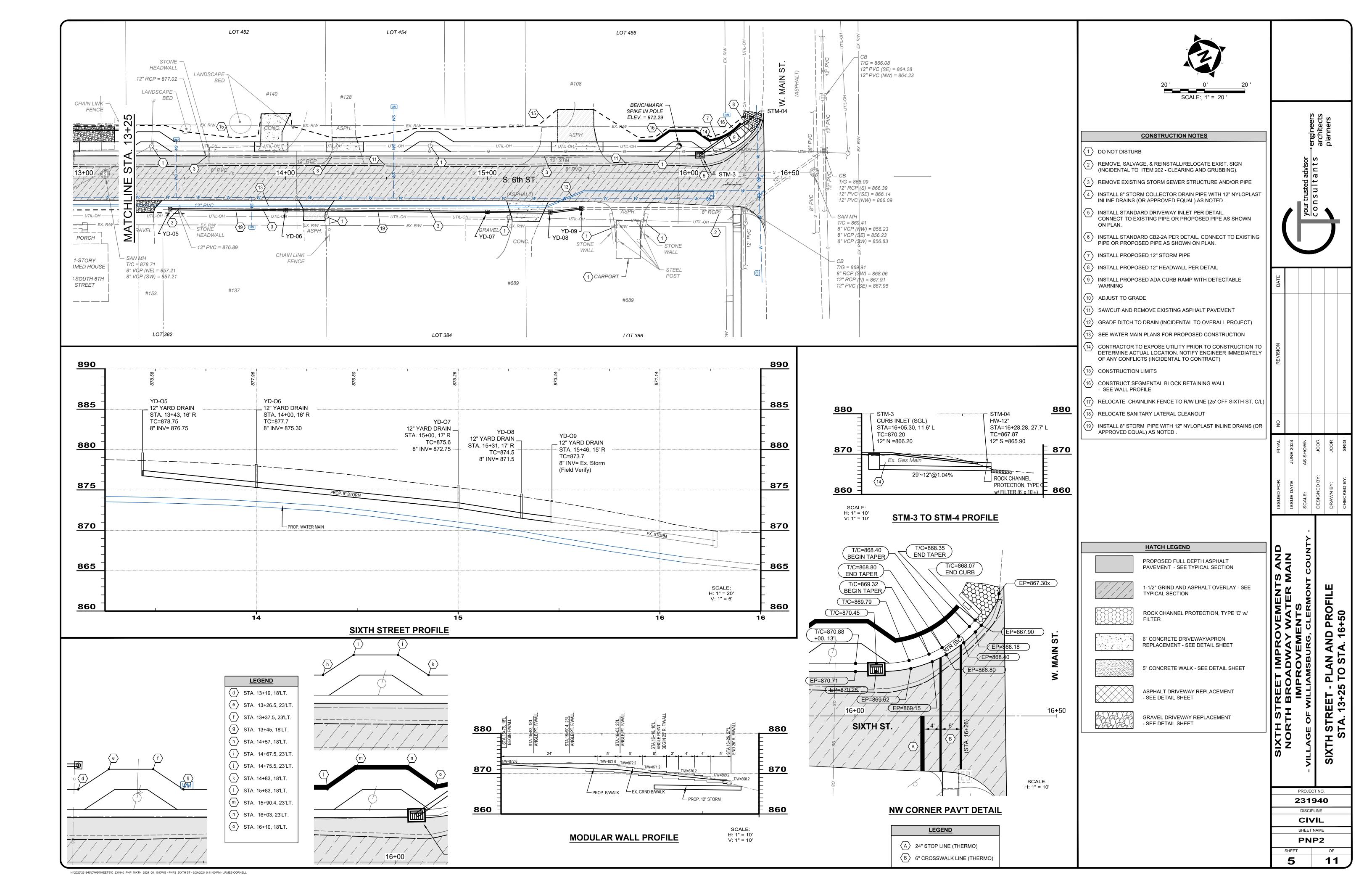
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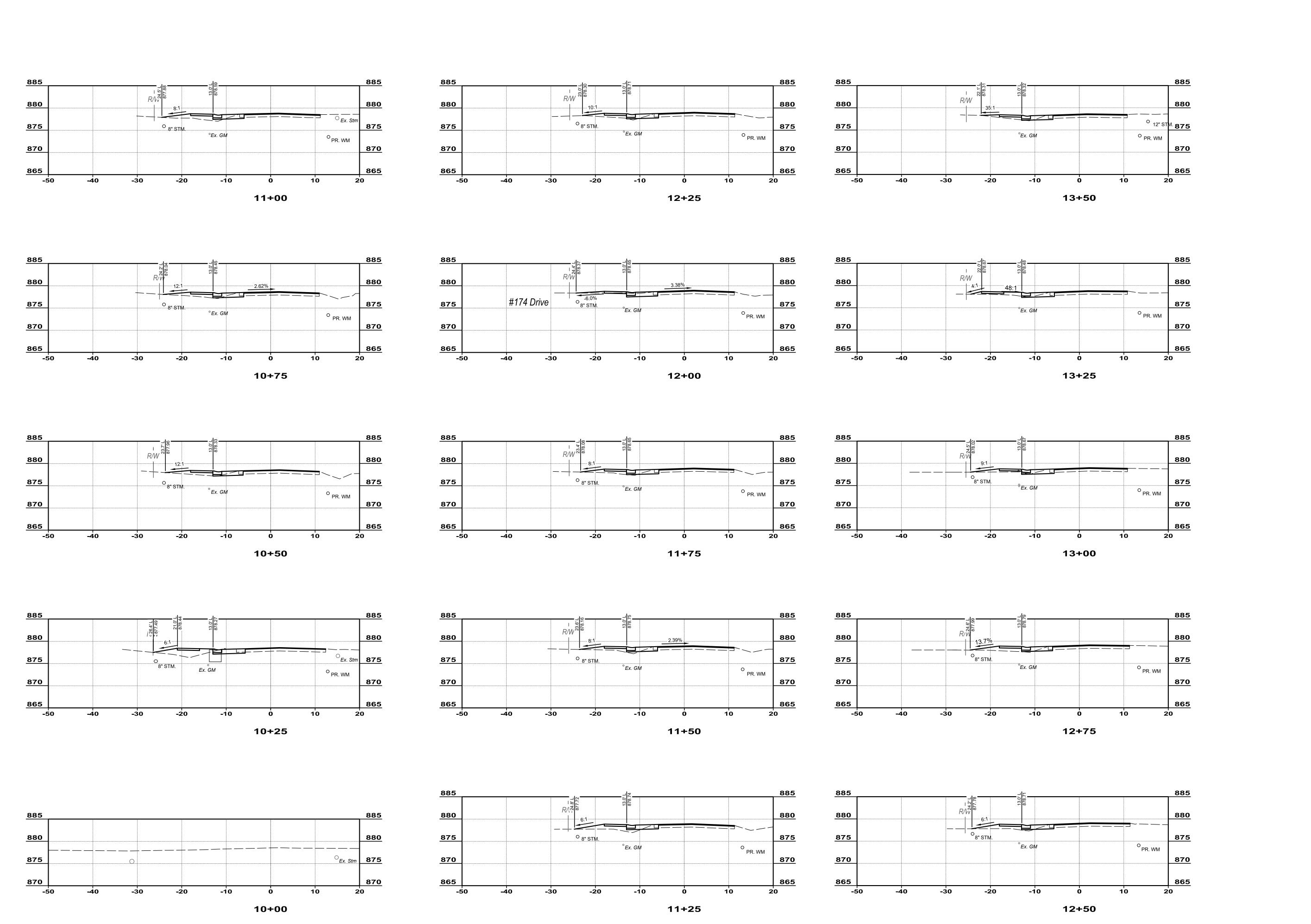
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SECTIONS

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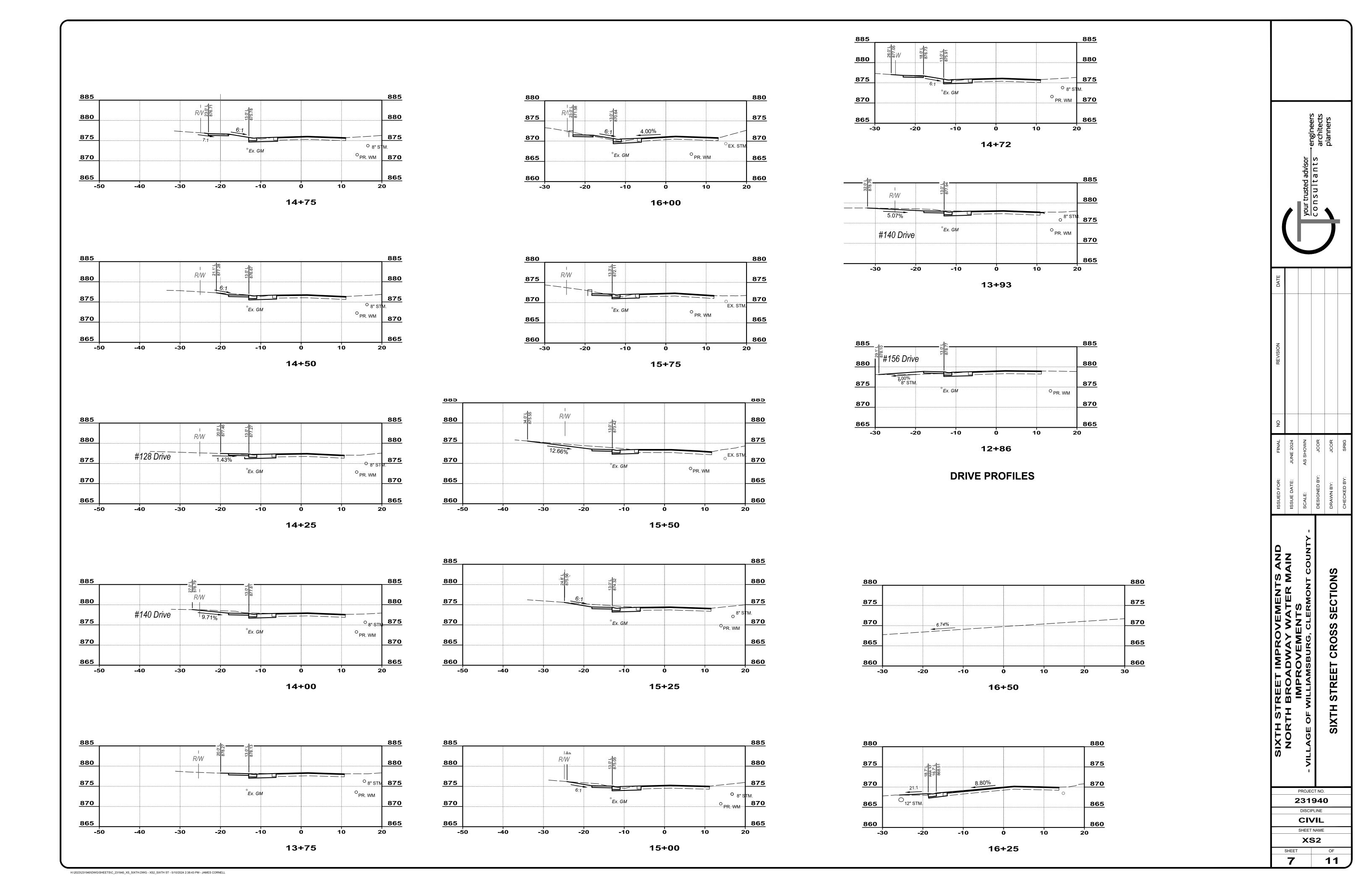
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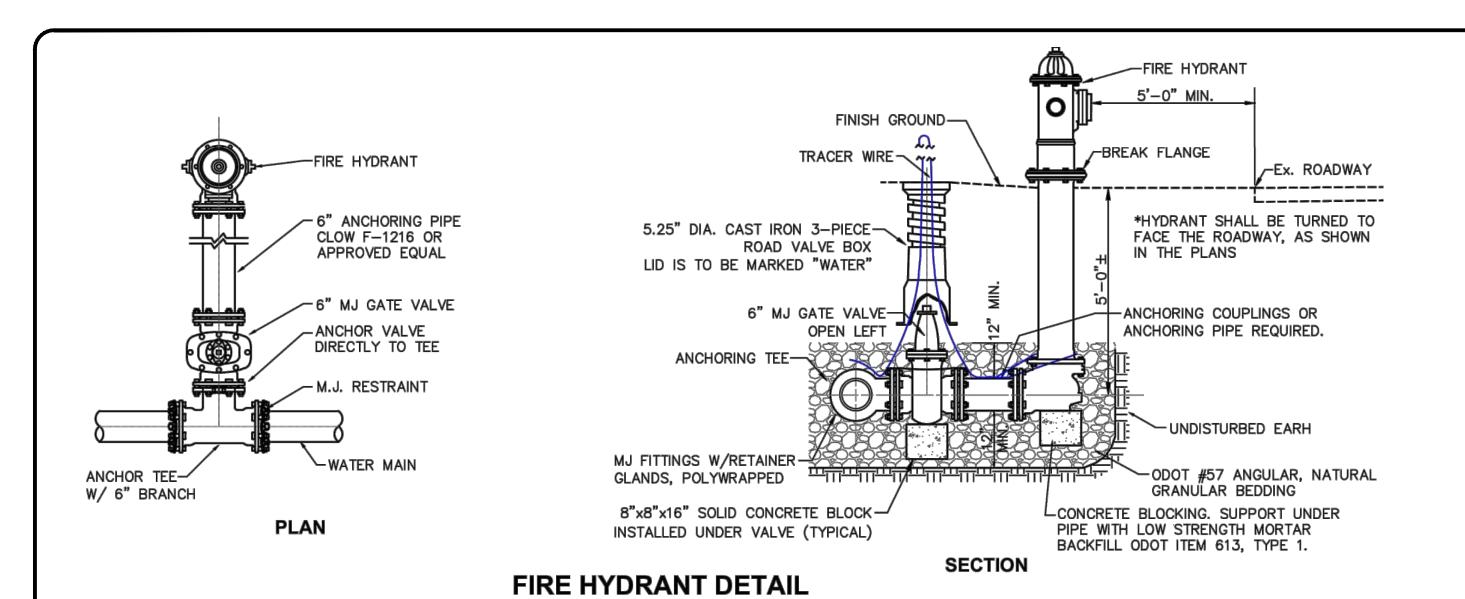
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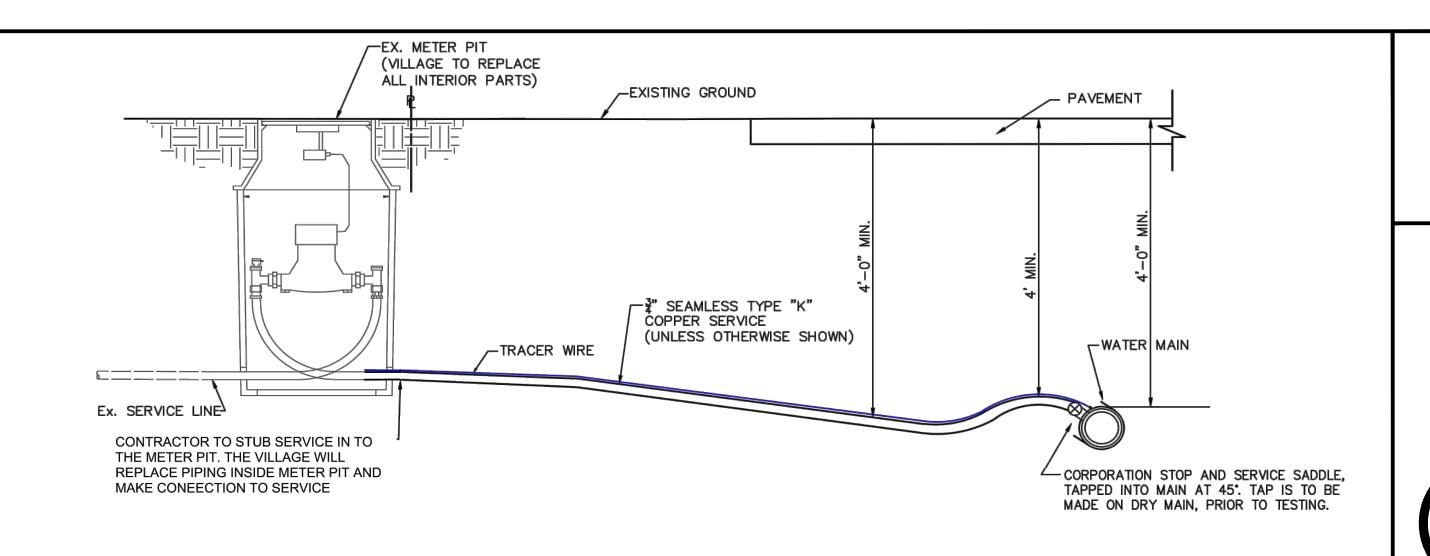
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### FIRE HYDRANT NOTES:

- A. FIRE HYDRANTS SHALL BE AMERICAN DARLING B-84-B-5 OR KENNEDY GUARDIAN K81D, WITH 5' MINIMUM BURY DEPTH.
- B. HYDRANTS SHALL BE PAINTED RED AND SHALL OPEN LEFT BY TURNING IN COUNTERCLOCKWISE DIRECTION.
- C. 5" INTEGRAL STORZ CONNECTION SHALL FACE THE STREET. A THREADED ADAPTOR FOR THE STORZ CONNECTION WILL NOT BE PERMITTED.
- D. TWO (2) 2.5" HOSE OUTLETS SHALL BE SUPPLIED ON THE SIDES OF THE HYDRANT. HOSE OUTLETS SHALL BE CHAINED.
- E. FIRE HYDRANTS SHALL BE SELF DRAINING, AND SHALL NOT HAVE DRAIN PLUGS INSTALLED.
- F. FIRE HYDRANTS MUST BE INSTALLED AT THE PROPER GRADE. NO EXTENSIONS ARE PERMITTED TO OBTAIN PROPER GRADE. IF NEEDED FOR HEIGHT ADJUSTMENT, A GRADELOK ADAPTOR MAY BE INSTALLED AS THE LAST ITEM BEFORE THE HYDRANT RISER. THE ADAPTOR SHALL HAVE ANCHOR CONNECTIONS AT BOTH ENDS.
- G. THE WATCH VALVE SHALL BE ANCHORED DIRECTLY TO THE TEE, USING EITHER AN ANCHORING TEE BRANCH OR A MECHANICAL JOINT TEE BRANCH WITH MJxMJ ADAPTOR.
- H. FIRE HYDRANT AND ACCESSORIES SHALL CONFORM TO LOCAL FIRE DEPARTMENT STANDARDS.
- I. THE NEAREST JOINT IN THE WATER MAIN SHALL BE A MINIMUM OF 5' FROM THE HYDRANT TEE.
- J. THE NOZZLE OF THE HYDRANT SHALL BE A MINIMUM OF 2' BEHIND THE BACK OF CURB IN CURBED AREAS, OR 5' MIN. BEHIND THE EDGE OF THE PAVEMENT IN NON-CURBED AREAS, UNLESS UNACHIEVABLE OR OTHERWISE SHOWN IN THE PLANS OR DIRECTED BY THE VILLAGE
- K. THE FULL HYDRANT BRANCH, AND ALL RISER PIPE BELOW GRADE, SHALL BE POLYWRAPPED.



### DEPARTMENT PERSONNEL. B. TAPPING SADDLE SHALL BE STAINLESS STEEL.

WATER SERVICE NOTES

C. CORPORATION STOPS SHALL BE FULL PORT BALL VALVES, 1/4 TURN WITH STOP, AND CTS 110 COMPRESSION FITTINGS. ACCEPTABLE MANUFACTURERS ARE "MUELLER" AND "FORD".

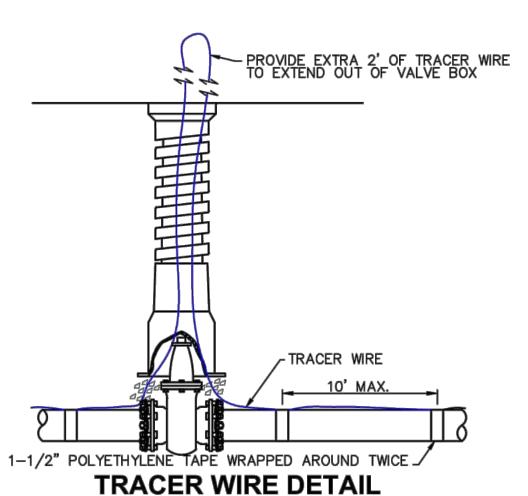
A. ALL SERVICE WORK TO BE COORDINATED WITH VILLAGE WATER

D. THERE SHALL BE NO FITTINGS OR COUPLINGS ON COPPER PIPING UNDER PAVEMENT.

E. THE CONTRACTOR SHALL GIVE 3 DAYS NOTICE BEFORE ANY WATER SERVICE IS TAKEN OUT OF SERVICE.

### LEAD SERVICE LINES

THE CONTRACTOR MUST TEST ALL EXISTING WATER SERVICE LINES FOR THE PRESENCE OF LEAD. IF THE CONTRACTOR ENCOUNTERS ANY EXISTING MATERIALS THAT CONTAIN LEAD, ALL CONSTRUCTION ACTIVITIES RELATED TO THAT MATERIAL SHALL STOP AND THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE VILLAGE OF WILLIAMSBURG WATER DEPARTMENT. ALL CONNECTIONS INTO A LEAD SERVICE LINE MUST RECEIVE PRIOR APPROVAL FROM THE WATER OPERATOR.



### TIVAOLIT WII

TRACER WIRE NOTES

A. FOR OPEN CUT CONSTRUCTION TRACER WIRE SHALL BE STEEL CORE COPPER CLAD
REINFORCED WIRE #12 AWG OR STAINLESS STEEL #12 AWG WITH 30 MIL HIGH DENSITY
POLYETHYLENE COATING, TRACER WIRE SHALL BE BLUE FOR WATER, TRACER WIRE SHALL HAVE A
MINIMUM 380 LBS. TENSILE BREAK LOAD.

FOR DIRECTIONAL DRILL CONSTRUCTION TRACER WIRE SHALL BE COPPERHEAD SOLOSHOT REINFORCED TRACER WIRE MANUFACTURED BY COPPERHEAD INDUSTRIES, LLC. BLUE FOR WATER.

B. TRACER WIRE MUST BE RUN ON TOP OF THE PIPE CONTINUOUSLY FOR THE FULL LENGTH OF

C. TRACER WIRE WILL BE INSTALLED ON ALL NEW INSTALLATION AND WILL COME TO THE SURFACE AT EVERY VALVE CHAMBER, VALVE BOX CURB BOX AND FIRE HYDRANT.

D. WHEN TRACER WIRE MUST BE SPLICED, USE ONLY AN APPROVED SPLICE KIT FILLED WITH MOISTURE DISPLACEMENT SILICONE FOR CORROSION RESISTANT PROTECTION. 3—WAY WIRE CONNECTIONS FROM MAIN TO HYDRANT, VALVE BOX OR VAULT WILL BE MADE ONLY WITH APPROVED DIRECT BURY CONNECTOR WITH MOISTURE DISPLACEMENT SILICONE FILLED CAP FOR CORROSION RESISTANT PROTECTION.

E. TO TERMINATE TRACER WIRE, USE A A MAGNETIZED TERMINATION BOX FEATURING A CORROSION—RESISTANT BRASS WIRE LUG AND A WAX PAD TO COVER WIRE CONNECTIONS AFTER INSTALLATION AND LOCK OUT MOISTURE. THE TERMINATION BOX SHALL BE CAPABLE OF ALLOWING CONNECTION TO UNDERGROUND WIRES WITHOUT REMOVING THE CAP. LOOP 18—24 INCHES OF WIRE INSIDE TERMINATION BOX. THE TERMINATION BOX MUST BE RATED FOR ITS APPLICATION, I.E. FOR USE IN CONCRETE, ASPHALT OR NEW INSTALLATION IN THE GROUND.

F. ALL MATERIAL, LABOR, EQUIPMENT NEEDED FOR THE INSTALLATION OF THE TRACER WIRE SHALL BE INCIDENTAL TO WATER MAIN INSTALLATION.

G. THE CONTRACTOR SHALL SCHEDULE A CONDUCTIVITY/LOCATE TEST UPON COMPLETION. THE TEST WILL BE CONDUCTED BY THE CITY.

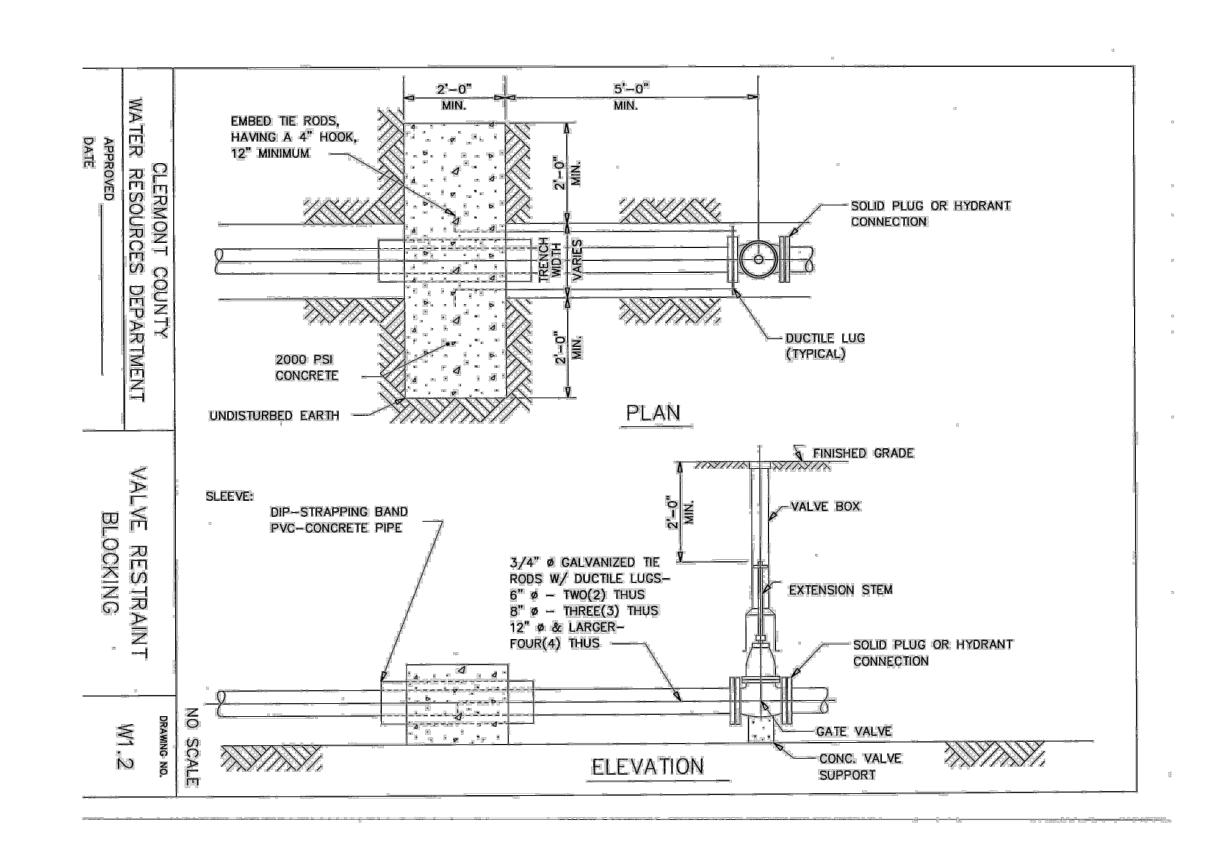
# SIXTH STREET IMPROVEMENTS AND ISSUED FOR: FINAL IMPROVEMENTS NORTH BROADWAY WATER MAIN IMPROVEMENTS - VILLAGE OF WILLIAMSBURG, CLERMONT COUNTY - DESIGNED BY: JCOR DETAILS CHECKED BY: SRIG

SHEET NAME

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