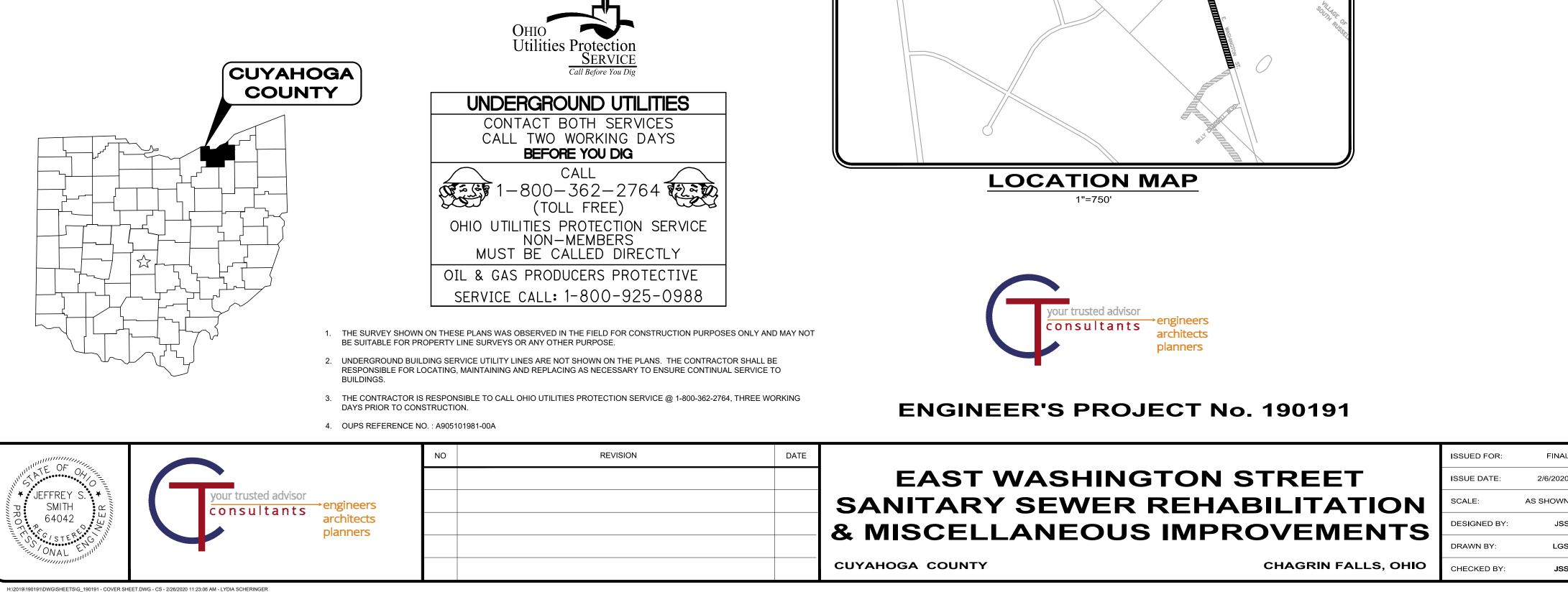
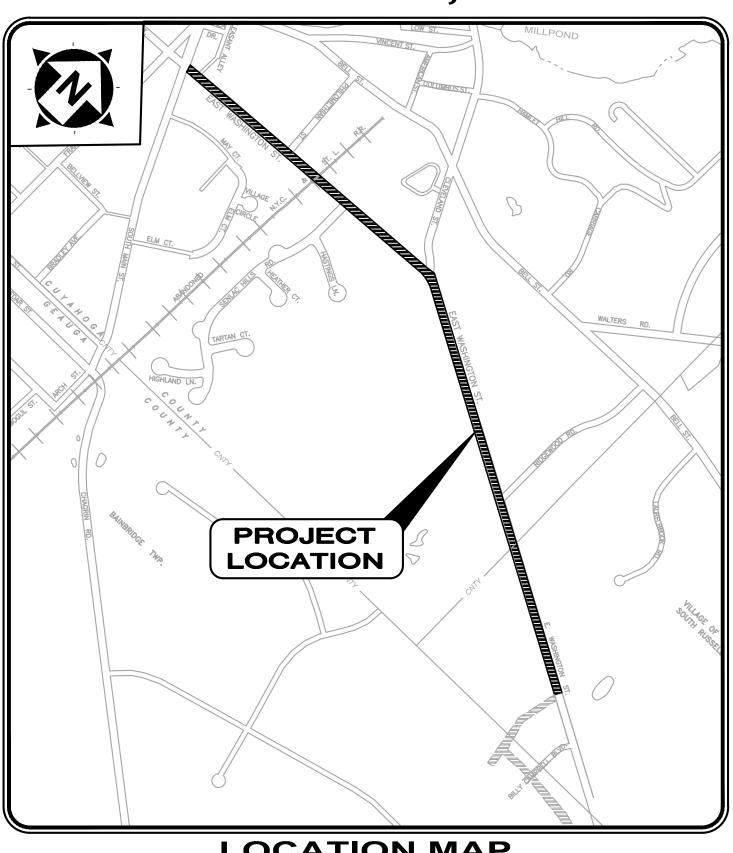
THE VILLAGE OF CHAGRIN FALLS EAST WASHINGTON STREET SANITARY SEWER REHABILITATION & **MISCELLANEOUS IMPROVEMENTS OPWC PROJECT No. CT70/71W** WPCLF AND WSRLA FUNDED PROJECT CUYAHOGA COUNTY, OHIO **FEBRUARY**, 2020

INDEX OF SHEETS			
SHEET TITLE:	SHEET NUMBER		
COVER SHEET	1		
GENERAL NOTES	2		
PROJECT OVERVIEW	3		
EXISTING CONDITIONS	4-14		
PLAN AND PROFILE	15-27		
WATER VALVES	28-29		
RESURFACING PLAN	30-34		
DETAILS	35-38		
DETAILS & E&S CONTROL	39		









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Alia anna 2/10/2	6
JEFFREY S. SMITH	
	PROJECT NO.
	190191
	DISCIPLINE
	GENERAL
COVER SHEET	SHEET NAME

<u>GEN</u>	<u>ERAL</u> A PRE-CONSTRUCTION CONFERENCE SCHEDULED BY THE ENGINEER SHALL BE HELD PRIOR TO	3.06	THE VILLAGE WILL SUPF
	ANY WORK STARTING. IN ADDITION, THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE ENGINEER, WATER SUPERINTENDENT, THE SANITARY SEWER DEPARTMENT AND THE	•	WATER-LINE AND PERF
1.02	VILLAGE ENGINEER PRIOR TO BEGINNING WORK TO ARRANGE FOR INSPECTION. THE STANDARD SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION, LATEST EDITION, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS AND STANDARD DRAWINGS, SHALL		ALL NEW WATERMAIN SI UNLESS OTHERWISE SPE
	GOVERN ALL WORK NOT COVERED BY THE SPECIFICATIONS AND STANDARD DRAWINGS, SHALL BE GOVERNED BY THE RULES, REGULATIONS AND SPECIFICATIONS OF THE VILLAGE OF		ALL FITTINGS SHALL BE SPECIFIED.
1.03	CHAGRIN FALLS. ALL WORK COMPLETED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT		ALL BOLTS USED ON TH PROTECTOR CAPS OR 3 SIDE STREET WATERMAN
1.04	OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT. ANY DEFECT IN MATERIAL OR WORKMANSHIP REVEALED BY INSPECTION MUST BE CORRECTED	5.10	OTHER DIRECTION. CON AND PROVIDE 24 HOUR
	BY THE CONTRACTOR AT NO COST TO THE VILLAGE AND TO THE FULL SATISFACTION OF THE VILLAGE AND ENGINEER BEFORE ACCEPTANCE OF THE WORK AND RELEASE OF FINAL ESTIMATE AND PAYMENT THEREOF.		CUSTOMERS WITH AN A TEMPORARY SERVICE FO
.05	THE CONTRACTOR SHALL PROVIDE A PRE-CONSTRUCTION VIDEO SURVEY OF THE ENTIRE PROJECT AREA. ANY DAMAGE DEEMED TO BE CAUSED BY THE CONTRACTOR SHALL	7 11	GATE VALVE, MUELLER SCREW STYLE CAST IRC WATERMAIN INSTALLATIO
	BE REPAIRED AT HIS OWN EXPENSE. ALL COSTS ASSOCIATED FOR THIS WORK, INCLUDING THE VIDEO SURVEY, SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS IN THE BID PROPOSAL.		WATERMAIN INSTALLATION WATERMAIN DISINFECTION HYDRANTS SHALL BE C
06	MANHOLES, CATCH BASINS, MONUMENT BOXES, WATER VALVE BOXES AND OTHER CASTINGS WILL BE RAISED OR LOWERED FLUSH WITH THE NEW SURFACE. ANY METER OR VALVE BOX	0.10	CLEVELAND THREADS, 1 2"x2-1/2" HOSE NOZZI
	ENCOUNTERED WITHIN THE WORK SITE SHALL BE EXPOSED. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS OF WORK EXCEPT WHEN BID AS A SEPARATE ITEM.	3.14	NECESSARY TO MAINTA
07	BEFORE THE VILLAGE WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTY RETAINER, THE CONTRACTOR SHALL FURNISH THE VILLAGE A WRITTEN REPORT INDICATING		PLANS. IF 18" MINIMUM CONTRACTOR SHALL LC DEFLECTION SHALL BE
	THE RESOLUTION OF ANY AND ALL PROPERTY DAMAGE CLAIMS FILED WITH THE CONTRACTOR BY ANY PARTY DURING THE CONSTRUCTION PERIOD. THE INFORMATION TO BE SUPPLIED	3.15	A MINIMUM OF 35 PSI OPERATING CONDITIONS
	SHALL INCLUDE, BUT NOT BE LIMITED TO, NAME OF CLAIMANT, DATE FILED WITH CONTRACTOR, NAME OF INSURANCE COMPANY AND/OR ADJUSTER HANDLING CLAIM, HOW CLAIM WAS RESOLVED AND IF CLAIM WAS NOT RESOLVED FOR THE FULL AMOUNT, A		BOOSTER PUMPS ARE
8	STATEMENT INDICATING THE REASON FOR SUCH ACTION. MATERIAL SPECIFICATIONS CALLED FOR ON THE PLANS REPRESENT THE MINIMUM REQUIRED		ER CONSTRUCTION SANITARY/STORM SEWE
	FOR EACH APPLICATION. THE OWNER MAY REQUEST OR THE CONTRACTOR MAY DESIRE TO SUBSTITUTE ALTERNATE MATERIALS. ANY SUCH SUBSTITUTIONS MUST BE EQUIVALENT IN		WATER-TIGHT, FLEXIBLE TRENCHING, EMBEDMEN EXCEED 5% ACCORDING
0	QUALITY TO THE MATERIAL CALLED FOR AND MUST BE APPROVED IN WRITING BY THE ENGINEER.		MANHOLE SECTION JOIN
	THE CONTRACTOR SHALL REMOVE AND REPLACE ALL MAILBOXES, TRAFFIC SIGNS, ETC. AS REQUIRED FOR CONSTRUCTION.		BACKFILL SHALL BE AS EMBEDMENT, AND BACK WHEN A SEWER AND W
XAF 01	FIC CONTROL THE CONTRACTOR SHALL PHASE CONSTRUCTION SUCH THAT AT A MINIMUM, ONE ACCESS	4.04	VERTICAL CLEARANCE E SHALL BE ENCASED IN
	LANE IS AVAILABLE FOR LOCAL VEHICULAR TRAFFIC. THE PAVEMENT SURFACE SHALL HAVE A UNIFORM SURFACE TO THE SATISFACTION OF THE VILLAGE ROADS SUPERINTENDENT. THE	CONS	SIDES OF THE CROSSIN SHALL BE OF MATERIAL STRUCTION.
	SAME ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS. THE SURFACES SHALL CONSIST OF THE FOLLOWING MATERIALS: A. EXISTING PAVEMENT SURFACE.		PVC SDR 26 PIPE SHAI CROSSING SEWER TREN
	 B. ODOT 304 LIMESTONE TEMPORARY TRENCH TOPPING. THE MAXIMUM TIME THAT THE TEMPORARY SURFACE SHALL BE IN PLACE SHALL BE 19 CALENDAR DAYS. C. PAVEMENT TRENCH REPAIR SECTION OF CLASS MS 301 ASPHALT BASE OR 305 	4.06	THE COST FOR FURNISH PARAGRAPHS 4.01 TO
	CONCRETE BASE, AS CONTRACTORS OPTION. SIDEWALK ACCESS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. ACCESS TO BUSINESSES ABUTTING		VARIOUS ITEMS IN THE THE FOLLOWING NOTES
סר	THE SIDEWALK SHALL BE MAINTAINED AND CLEANED OF MUD, DUST, AND LOOSE STONES ON A DAILY BASIS. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE "OHIO	Α.	LOCATIONS OF EXISTING SHALL FIELD LOCATE A THE VILLAGE.
	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".	В.	CERTAIN HOUSES AND/ IT SHALL BE THE CONT
)3	THE CONTRACTOR SHALL SUBMIT A PROPOSED TRAFFIC CONTROL PLAN FOR REVIEW AND ACCEPTANCE BY THE VILLAGE PRIOR TO BEGINNING WORK AND SHALL NOTIFY SAFETY SERVICES OF ANY TRAFFIC DISRUPTIONS.		TESTING, ELECTRONIC L LATERAL OR LATERALS COST FOR THE ABOVE
)4	NO CHANGE IN TRAFFIC PATTERN SHALL BE MADE WITHOUT PRIOR NOTIFICATIONS TO THE		RECONNECTION. NO ADI ACTIVE REGARDLESS OF
	TRAFFIC CONTROL OFFICER TWENTY-FOUR (24) HOUR ADVANCE SHALL BE GIVEN TO THE CHAGRIN FALLS POLICE DEPARTMENT AND MR. ROB JAMIESON AT (440) 247-5053.		THE CONTRACTOR SHAL TO ASSURE PROPER CO NO INACTIVE LATERALS
)5	SEE PROJECT OVERVIEW (SHEET 3). ONLY ONE "BLOCK" SHALL BE CLOSED AT ANY TIME.		LOCATOR TAPE SHALL FINAL TELEVISION INSPE
	BLOCK A: MAIN ST. TO PHILOMETHIAN ST.; BLOCK B: PHILOMETHIAN TO CLEVELAND ST.; BLOCK C: CLEVELAND ST. TO RIDGEWOOD DR.; BLOCK D: RIDGEWOOD DR TO BILLY CAMPBELL DRTWO - WAY TRAFFIC SHALL BE MAINTAINED IN OTHER BLOCKS. BLOCKS MAY BE	F.	COMPANY AND IN A FO PROVIDED WITH UNEDITI PROVIDE NEW SEWER LA
	COMBINED OR ONE - WAY TRAFFIC MAINTAINED WITH PRIOR APPROVAL OF THE VILLAGE.	G.	
סנ	BLOCK C WORK SHALL BE COMPLETED BETWEEN JUNE 12TH & AUGUST 12TH 2020 OR HOURS COORDINATED WITH HIGH SCHOOL OPERATION.	н. I.	IF A VACANT LOT IS W LATERAL SHALL BE PRO ALL SANITARY LINING S
70	PROVIDE DETOUR PLAN FOR ALL CLOSURES OR PARTIAL CLOSURES.	EXC	AVATION, BACKFILL,
	THE CONTRACTOR SHALL REMOVE ALL ABANDONED WATERMAIN CASTINGS FOR METERS,	5.01	BACKFILL FOR ALL UND AND STRUCTURES OR
	MANHOLES AND VALVES TO A MINIMUM OF ONE FOOT BELOW GRADE AND FILL THE REMAINING OPENING WITH COMPACTED SAND. IF THE CASTING IS IN A PAVED AREA, AN		PAVEMENT, SIDEWALK (GRANULAR BACKFILL" A ON-SITE SOILS MAY BE
	EIGHT (8) INCH THICK CONCRETE CAP SHALL BE PLACED EVEN WITH ADJACENT PAVEMENT AS SHOWN IN THE STANDARD DETAILS. THE CONTRACTOR SHALL REMOVE EXISTING HYDRANT AND HYDRANT VALVE ASSEMBLIES IN ONE PIECE AND DELIVER TO THE VILLAGE'S WATER		ENGINEER. NO SLAG C OR BACKFILL MATERIAL
02	DISTRIBUTION STORAGE AREA FOR DISASSEMBLY BY VILLAGE WORKERS. THE LOCATIONS SHOWN FOR NEW HYDRANT ASSEMBLIES IS GIVEN FOR THE TEE. THE	5.02	BACKFILL SHALL BE CO MATERIAL SHALL BE PL
	CONTRACTOR MAY MAKE MINOR CHANGES IN THE HYDRANT LOCATIONS TO AVOID EXISTING UTILITIES AS REQUIRED BY EXISTING FIELD CONDITIONS.	5.03	ORDER THE REMOVAL, MEETING THE REQUIREM BACKFILL MATERIAL SH
)3	THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 1" SERVICE CONNECTION TO ALL PROPERTIES. LARGE SERVICE CONNECTIONS ARE 1-1/4", 2", 4" AND 6" TYPICALLY. THE	5.05	COMPACTION EQUIPMEN ODOT 203.
	CONTRACTOR SHALL PROVIDE A TEE FOR SERVICE CONNECTIONS 4" AND LARGER. UNDER NO CONDITIONS SHALL THE NEW SERVICE CONNECTION BE SMALLER THAN THE EXISTING LINE SIZE. THE ENTIRE SERVICE CONNECTION FROM THE CURB STOP TO THE NEW WATERLINE	5.04	NO BACKFILLING OF AN EQUIPMENT BEING USED
	SHALL BE REPLACED, INCLUDING A NEW CURB BOX. ONLY CONTINUOUS PIPING FROM THE CORPORATION STOP TO THE CURB STOP WILL BE ALLOWED. SERVICE CONNECTIONS:	5.05	PERMITTED. ALL EXCAVATION SHALL SHALL BE PAID TO THE
	A. 1 INCH (MIN.) TYPE K COPPER (ALL FLARED FITTINGS) B. SADDLE (FOR PVC TAPS) MUELLER B2RB.	5.06	SHALL BE PAID TO THE THE OWNER AND THE E
	C. CORPORATION STOP: MUELLER H15000. D. CURB STOP: MUELLER H15204 W/ 2-PIECE 2½ INCH CAST IRON BOX, SIZE 94-E WITH		THE EXISTING EXCAVATI MOISTURE CONTENT TO WATER TO THE MATERIA
05	OLD STYLE TOP AND COVER. FOR 1½ AND 2 INCH SERVICES THE BOX SIZE IS 144-R. NEW WATER CONNECTIONS FOR BUILDINGS WITH A METER WITHIN THE RIGHT-OF-WAY SHALL HAVE THE CURB STOP PLACED ON THE WATERLINE SIDE OF THE METER, IF THE METER IS		FOR THE CONTRACTOR TO MAKE HIS DETERMIN
	NOT DISTURBED BY THE WATERLINE CONSTRUCTION. IF THE METER MUST BE MOVED, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE VILLAGE'S WATER DEPARTMENT,	5.07	THE CONTRACTOR SHAL STOP LINES, EDGE LINE
	AND PLACE THE CURB STOP ON THE WATERLINE SIDE OF THE METER.		SHALL BE TRUCKED TO
	NO	REVIS	ION
1 ¹¹¹ 5			
* PR	JEFFREY S. ★ SMITH 64042		
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H \2019\190191\DWG\SHEETS\G_190191 - GENERAL NOTES.DWG - GN-01 - 2/12/2020 3:57.39 PM - LYDIA SCHERINGE

SUPPLY WATER FOR TESTING AND FLUSHING OF THE PROPOSED PERFORM BACTERIA AND CHLORINE TESTING AT NO COST TO THE

IAIN SHALL BE DUCTILE IRON PIPE, ANSI CLASS 52, PUSH-ON JOINTS. SE SPECIFIED

ALL BE CAST IRON MECHANICAL JOINT FITTINGS, UNLESS OTHERWISE

ON THE WATERLINE SHALL BE CADMIUM PLATED CORE TEN WITH ZINC OR 316 STAINLESS STEEL.

- TERMAIN VALVES MAY BE CLOSED IF THEY CAN BE SUPPLIED FROM THE CONTRACTOR SHALL COORDINATE WITH THE VILLAGE'S WATER DEPARTMENT HOURS NOTICE FOR ANY PLANNED SERVICE DISRUPTION TO WATER AN APPROVED FORM LETTER/DOOR HANGER. CONTRACTOR SHALL PROVIDE VICE FOR STREETS AS REQUIRED. VALVES SHALL BE MJXMJ RESILIENT WEDGE 6.03 ALL UTILITY LINES CROSSING THE NEW TRENCH SHALL BE PROTECTED AND SUPPORTED WITH ELLER A 2360 SERIES, OPEN CCW. VALVE BOXES SHALL BE 2-PIECE $5-\frac{1}{4}$ " ST IRON BOX.
- ALLATION AND PRESSURE TESTING SHALL CONFORM TO AWWA C605.
- FECTION SHALL CONFORM TO AWWA C651 BE CHAGRIN FALLS VILLAGE STANDARD: MUELLER A-423 CENTURION WITH
- ADS. 1-INCH SQUARE TOP AND NOZZLE NUT WITH 1x5" STORZ NOZZLE AND NOZZLES. ALL VERIFY UTILITY ELEVATIONS AT CROSSINGS AND DEFLECT WATERMAIN AS
- AINTAIN A MINIMUM CLEARANCE OF 18" UNLESS OTHERWISE SHOWN ON NIMUM CLEARANCE CANNOT BE MAINTAINED BY DEFLECTION, THE ALL LOWER THE WATERMAIN AS DIRECTED BY THE ENGINEER. MAXIMUM L BE 15" PER PIPE LENGTH.
- PSI SHALL BE MAINTAINED TO THE CURB STOP DURING NORMAL
- ARE NOT PERMITTED ON SERVICE CONNECTIONS.

SEWER SHALL BE PVC SDR 26 - ASTM 3034 WITH ASTM D3212, F477 EXIBLE GASKET JOINTS. SEWER PIPE BEDDING SHALL BE AS PER THE EDMENT, AND BACKFILL DETAIL. PVC SEWER DEFLECTION TESTING SHALL NOT DRDING TO PLAN SPECIFICATIONS.

- N JOINTS MUST MEET ASTM C-443. BE AS PER SPECIFICATION SECTION 02204 AND AS PER THE TRENCHING,
- BACKFILL DETAIL.
- AND WATERLINE CROSS AND IT IS NOT POSSIBLE TO MAINTAIN AN 18 INCH ANCE BY WATERMAIN LOWERING, EITHER THE WATERMAIN OR THE SEWER ED IN A WATERTIGHT CARRIER PIPE WHICH EXTENDS 10 FEET ON BOTH ROSSING, MEASURED PERPENDICULAR TO THE WATERMAIN. THE CARRIER PIPE TERIALS APPROVED BY THE O.E.P.A. FOR USE IN WATERMAIN
- SHALL BE USED FOR REPLACEMENT OF SANITARY & STORM LATERAL TRENCH, WITH PREMIUM 3 BAND ADAPTOR COUPLINGS.
- JRNISHING ALL MATERIAL AND LABOR TO PERFORM ALL WORK STATED IN 1 TO 4.05 SHALL BE INCLUDED IN THE BID PRICES STIPULATED FOR THE BID PROPOSAL.
- NOTES APPLY TO SANITARY LATERAL RECONNECTIONS:
- KISTING SANITARY LATERALS ARE APPROXIMATE. THE CONTRACTOR ATE ALL EXISTING SANITARY LATERALS AT NO ADDITIONAL COST TO
- AND/OR PROPERTIES ARE KNOWN TO HAVE ONE OR MORE LATERALS.
- CONTRACTOR'S RESPONSIBILITY TO DETERMINE (VIA TELEVISING, DYE ONIC LOCATING DEVICE OR OTHER APPROPRIATE METHODS) WHICH
- ERALS ARE ACTIVE, AND TO RECONNECT THE ACTIVE LATERALS. THE BOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR LATERAL NO ADDITIONAL PAYMENT FOR DETERMINING WHICH LATERALS ARE ESS OF THE METHOD(S) UTILIZED.
- SHALL BE RESPONSIBLE FOR VERIFYING AND TESTING EACH LATERAL PER CONNECTIONS TO THE SANITARY SEWER.
- ERALS SHALL BE RECONNECTED TO THE NEW SEWER
- HALL BE INSTALLED ON ALL SANITARY SERVICE LATERALS. INSPECTION OF CONDUIT SHALL BE PERFORMED BY AN EXPERIENCED
- A FORMAT SATISFACTORY TO THE OWNER. THE ENGINEER SHALL BE INEDITED VIDEO AND TWO (2) COPIES OF THE VIDEO LOG.
- VER LATERALS TO THE RIGHT-OF-WAY FOR ALL HOUSE CONNECTIONS WITH SEWER LINING.
- ISCONNECTED WYE'S TO LOTS THAT HAVE AN EXISTING HOUSE. IS WITHIN THE SECTION OF THE SEWER THAT IS BEING LINED, A NEW
- BE PROVIDED WITH A WYE POLE. NING SHALL BE DONE STRICTLY WITHIN MANUFACTURERS SPECIFICATIONS.
- KFILL, AND SEWER REPLACEMENT
- L UNDERGROUND UTILITIES INSTALLED UNDER PAVEMENT, SIDEWALK,
- OR WITHIN A 1:1 ZONE OF INFLUENCE PARALLEL OR TRANSVERSE TO VALK OR STRUCTURES SHALL BE " COMPACTED BACKFILL" OR "COMPACTED
- FILL" AS DESCRIBED IN SPECIFICATIONS, IF DIRECTED BY THE ENGINEER. IAY BE USED FOR "COMPACTED BACKFILL" MATERIALS, IF APPROVED BY THE
- SLAG OR RECYCLED CONCRETE PRODUCTS WILL BE PERMITTED FOR BEDDING TERIAL.
- BE COMPACTED IN LAYERS NOT EXCEEDING 9" IN DEPTH. BACKFILL BE PLACED WITH 2% OF THE OPTIMUM MOISTURE. THE ENGINEER MAY VAL, REFILLING, RE-COMPACTION AND RETESTING OF ALL BACKFILL NOT
- QUIREMENTS OF THE CONTRACT. AL SHALL BE PLACED AND COMPACTED USING MACHINE MOUNTED
- IPMENT IN LAYERS SUFFICIENT TO MEET THE COMPACTION REQUIREMENT
- OF ANY TRENCHES OR EXCAVATIONS WILL BE PERMITTED WITHOUT TAMPING USED. FLOODING, JETTING OR PUDDLING OF BACKFILL WILL NOT BE
- SHALL BE CONSIDERED UNCLASSIFIED. NO ADDITIONAL COMPENSATION TO THE CONTRACTOR FOR ROCK OR SHALE EXCAVATION.
- THE ENGINEER DO NOT GUARANTEE THE SUITABILITY OR SUGGEST THAT CAVATED MATERIAL IN ITS PRESENT STATE WILL CONSIST OF THE PROPER NT TO ACHIEVE THE REQUIRED COMPACTION WITHOUT DRYING OR ADDING IATERIAL. UPON REQUEST, THE OWNER WILL PROVIDE ACCESS TO THE SITE CTOR TO CONDUCT SUCH INVESTIGATIONS AND TESTS DEEMED NECESSARY TERMINATION.
- SHALL REPLACE ANY PAVEMENT MARKINGS, SUCH AS CROSS WALKS. LINES, CENTER LINES, ETC. ANY PAVEMENT REMOVED CONTAINING BRICKS ED TO THE VILLAGE SERVICE DEPARTMENT.

SERVICE CONNECTIONS

- 6.01 ALL SANITARY AND WATER SERVICE CONNECTIONS SHOWN ON THE PLAN WERE DERIVED FROM VILLAGE RECORDS. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL CONNECTIONS PRIOR TO REPLACEMENT. SANITARY LATERAL REPLACEMENT AND WATER SERVICE CONNECTION REPLACEMENT SHALL DISTURB NO MORE THAN 50 S.F. OF SIDEWALK AND 10 L.F. OF CURB PER LATERAL OR CONNECTION REPLACED. ALL ACTIVE CONNECTIONS AND HOUSE LATERALS ENCOUNTERED SHALL BE RECONNECTED TO EXISTING FACILITIES OR CONNECTED TO THE NEW FACILITIES, EVEN IF NOT SHOWN ON THE PLANS. UNLESS OTHERWISE DIRECTED BY THE VILLAGE ENGINEER.
- 6.02 ALL EXISTING UTILITY SERVICE CONNECTIONS (SANITARY, STORM, WATER, GAS, ELECTRIC TELEPHONE, ETC.) WHICH ARE DAMAGED DURING THE INSTALLATION OF PIPE SHALL BE REPAIRED WITH LIKE MATERIALS OR REPLACED, AS REQUIRED. THE COST OF UTILITY SERVICE CONNECTION REPAIR/REPLACEMENT SHALL BE INCLUDED IN THE UNIT PRICES FOR ALL ITEMS IN THE PROPOSAL.
- HARDWOOD PLANKS; OR REMOVED, REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. IF ANY OF THESE LINES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED IN-KIND.
- 6.04 THE CONTRACTOR SHALL BE REQUIRED TO BYPASS AND MAINTAIN THE FLOW TO/FROM ALL HOUSE UTILITY CONNECTIONS DURING CONSTRUCTION.
- 6.05 THE CONTRACTOR SHALL EXPECT ONE UNDERGROUND GAS AND WATER CONNECTION FOR EACH LOT (INCLUDING VACANT LOTS) ON BOTH SIDES OF THE STREET FOR THE ENTIRE PROJECT LENGTH.
- 6.06 THE CONTRACTOR SHALL SUPPLY ALL PIPE AND ADAPTERS TO CONNECT TO EXISTING PIPING. THE ADAPTERS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- 6.07 THE COST OF UTILITY RELOCATION, REPLACEMENT, AND/OR SUPPORT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS OF WORK EXPECT WHEN BID AS A SEPARATE ITEM.

UTILITIES

- 7.01 THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE VILLAGE OF CHAGRIN FALLS DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.
- 7.02 BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE" AT 1-800-362-2764, FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE VILLAGE OF CHAGRIN FALLS, TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITIES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL COST TO THE VILLAGE, INCLUDING ANY INSPECTION OR MAINTENANCE FEES
- 7.03 WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME THAT WORK IS GOING ON ADJACENT TO THE POLE(S)
- 7.04 THE COST AND COORDINATION FOR ANY REQUIRED PROTECTION, SUPPORT OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 7.05 DELAYS TO THE CONTRACTOR AS A RESULT OF TIMING OF POLE RELOCATION. SUPPORT OR PROTECTION SHALL NOT BE CONSIDERED COMPENSABLE DELAYS. AS IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK IN CONFORMANCE TO THE UTILITY
- COMPANY'S SCHEDULE. 7.06 THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES AFFECTED BY THE PROPOSED CONSTRUCTION
- 7.07 THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE EXISTING UTILITY OWNERS LISTED BELOW AND THE UTILITY PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE AND OUTLINED IN PROJECT SPECIFICATIONS. THE UTILITY OWNERSHIPS ARE AS FOLLOWS:

PROPERTY PINS AND MONUMENTS

8.01 PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EMPLOY A REGISTERED SURVEYOR TO LOCATE, RECORD, AND MARK ALL EXISTING MONUMENTS AND PROPERTY CORNERS WITHIN THE CONSTRUCTION LIMITS OF THE PROPOSED WORK AREA. A LISTING OF THE PINS AND MONUMENTS SHALL BE SUPPLIED TO THE VILLAGE ENGINEER PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL PINS AND MONUMENTS DURING CONSTRUCTION. IF PINS AND MONUMENTS ARE DISTURBED DURING CONSTRUCTION, THE CONTRACTOR SHALL HAVE THEM REPLACED BY THE REGISTERED SURVEYOR AT NO ADDITIONAL COST TO THE VILLAGE.

VEGETATION/TREE PROTECTION

- 9.01 ANY EXTENSIVE LANDSCAPING DISTURBED BY CONSTRUCTION WORK SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE VILLAGE.
- 9.02 TREE REMOVAL SHALL BE LIMITED TO THAT NECESSARY FOR CONSTRUCTION AND WILL BE LIMITED TO THE ROAD RIGHT-OF-WAY AND EASEMENTS.
- 9.03 NO TREE REMOVAL WILL BE PERMITTED WITHOUT PERMISSION OF THE ENGINEER AND THE PROPERTY OWNER
- 9.04 TREES WHICH ARE NOT REMOVED WILL BE PROTECTED BY ENSURING THAT TREES TO BE REMOVED ARE FELLED SO AS NOT TO INJURE THE REMAINING TREES. 9.05 AT NO TIME SHALL SOIL, CONSTRUCTION EQUIPMENT OR OTHER MATERIAL BE STORED NEXT TO OR WITHIN THE DRIP-LINE OF TREES.

EAST WASHINGTON STREET ISSUE DATE: SANITARY SEWER REHABILITATION SCALE: & MISCELLANEOUS IMPROVEMENTS

ISSUED FOR:

FINAL

2/6/2020

AS SHOWN

CUYAHOGA COUNTY

DATE

CHAGRIN FALLS, OHIO

EROSION AND DUST CONTROL

ENVIRONMENTALLY SENSITIVE AREA.

PROHIBITED CONSTRUCTION ACTIVITIES

SUPPLIERS.

10.01 SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY SODDING AND MULCHING

IMMEDIATELY UPON COMPLETION OF EXCAVATION OR FILL AND FINISH GRADING IN

10.02 THE CONTRACTOR SHALL BEGIN THE RESTORATION PROCESS AS SOON AS CONSTRUCTION IS

10.03 THE CONTRACTOR SHALL REMOVE DAILY ALL MUD, SOIL AND DEBRIS THAT MAY BE TRACKED

10.04 ALL MATERIALS TO BE DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN ENVIRONMENT-

10.05 EROSION CONTROL MEASURES AT THE DISPOSAL SITE MUST BE INSTALLED AND MAINTAINED

UNTIL DISPOSAL IS COMPLETE AND THE DISPOSAL SITE IS PERMANENTLY STABILIZED.

10.06 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY, WHEN ORDERED BY THE

ORIGINATING FROM HIS CONSTRUCTION ACTIVITIES. SUFFICIENT QUANTITIES OF CALCIUM

CONTROL UNTIL THE AREA IS SEEDED. THE COST OF WATER OR CALCIUM CHLORIDE DUST

CHLORIDE SHALL BE STORED ON THE JOBSITE AT ALL TIMES TO BE USED FOR DUST

ENGINEER, WATER OR CALCIUM CHLORIDE FOR THE REDUCTION OF DUST NUISANCE

11.01 DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOOD

CONTROL SHALL BE INCLUDED IN THE APPROPRIATE UNIT BID PRICE.

COMPLETED, PERMANENTLY STABILIZING EACH DISTURBED AREA WITH PERENNIAL VEGETATION

ONTO EXISTING STREETS OR DRIVES BY HIS EQUIPMENT OR THAT OF SUBCONTRACTORS OR

ALLY SOUND MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. NO

EXCESS MATERIALS ARE TO BE DISPOSED OF IN ANY WETLAND, FLOOD PLAIN OR OTHER

INSTALLED ACCORDING TO SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS.

ACCORDANCE WITH ODOT ITEM 659 OR AS DIRECTED BY THE ENGINEER.

PROJECT NO 190191 DISCIPLINE

GENERAL NOTES - 01

GENERAL SHEET NAME **GN-01** SHEET OF 02 39

PLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER. 11.02 LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS. 11.03 DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA. 11.04 DISPOSING OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS OR AT UNSPECIFIED LOCATIONS. 11.05 CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS AND THE ENGINEER, AND CLOSING CLEAR ACCESS: BY FIRE PROTECTION AND EMERGENCY VEHICLES; BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE; OR BY VEHICLES TO DRIVEWAYS WITHOUT THE PROVISION OF ALTERNATIVE MEANS OF BUILDING INGRESS AND EGRESS. EXCESS EXCAVATION 12.01 ALL EXCESS EXCAVATION SHALL BE DISPOSED OF IN A LOCATION TO BE SELECTED BY THE CONTRACTOR. THE CONTRACTOR MUST OBTAIN A PERMIT FROM THE VILLAGE OF CHAGRIN FALLS IF THE MATERIAL IS TO BE DISPOSED OF WITHIN THE VILLAGE LIMITS. AIR/NOISE CONTROL 13.01 CONSTRUCTION ACTIVITIES WILL BE LIMITED FROM 7 AM TO 7 PM, UNLESS APPROVED IN ADVANCE BY THE VILLAGE. **SPECIAL** 14.01 ALL APRONS AND CURB SHALL BE CLASS MS QC-1 CONCRETE

SOURCES USED FOR THE BASE MAPPING AND UTILITY INFORMATION

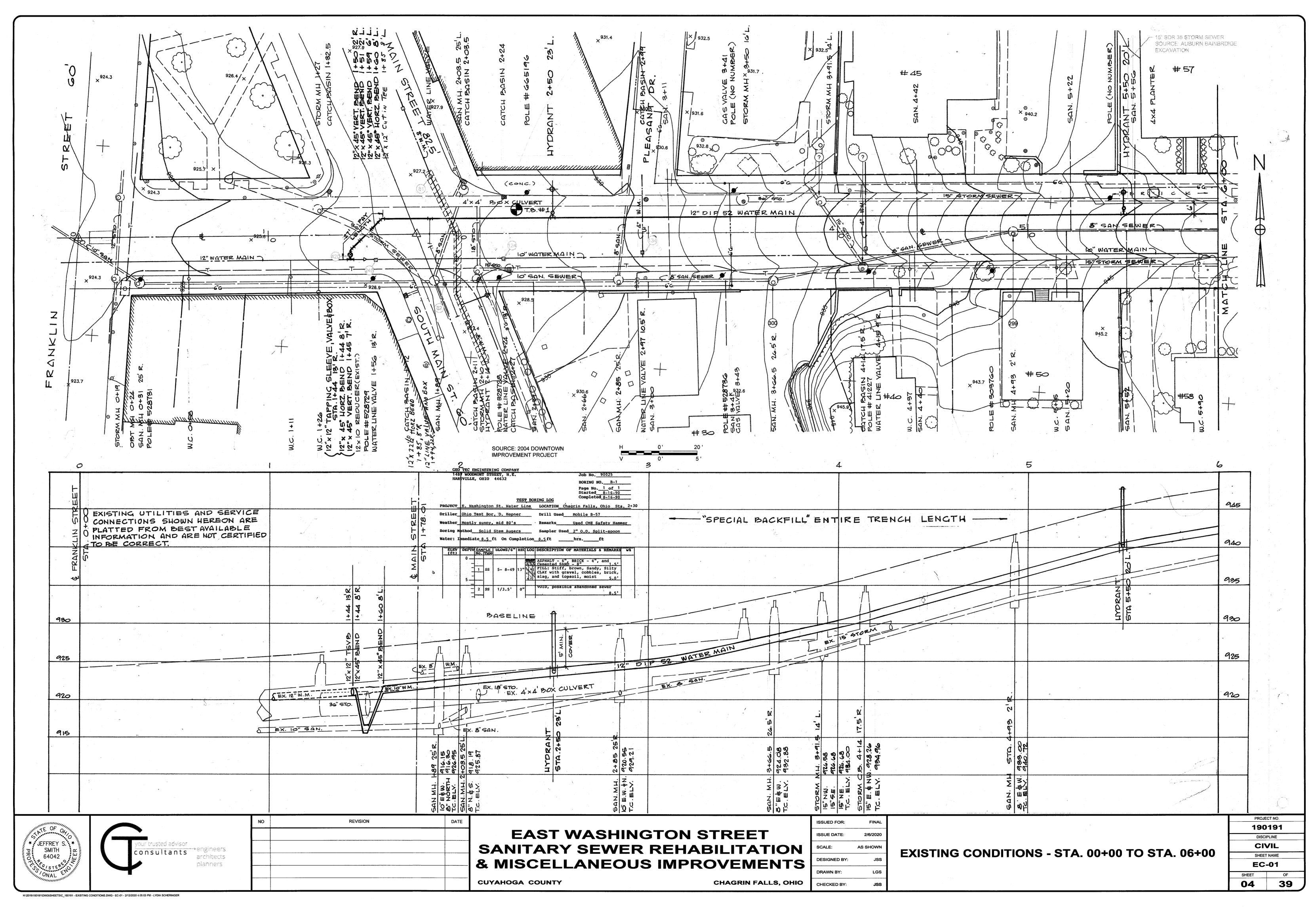
- 1. VILLAGE OF CHAGRIN FALLS, OHIO EAST WASHINGTON STREET WATER MAIN" PREPARED BY CT CONSULTANTS, INC. & AEROCON, DATED SEPTEMBER, 1990.
- 2. VILLAGE CHAGRIN FALLS VALVE CARDS (VARIOUS DATES)
- 3. STORM LATERAL SKETCH FOR 57 E. WASHINGTON STREET, PREPARED BY AUBURN BAINBRIDGE EXCAVATING, UNDATED.
- 4. "UNITED STATE POSTAL SERVICE, CHAGRIN FALLS POST OFFICE", PREPARED BY KARL R. ROHRER &ASSOCIATES, INC., DATED 10/14/2011
- 5. CHAGRIN FALLS DOWNTOWN IMPROVEMENT PROJECT, PREPARED BY E.G.Q.G, INC., DATED 9/15/2004
- 6. "VILLAGE OF CHAGRIN FALLS, OHIO, AMERICAN STREET STORM SEWER", PREPARED BY CT CONSULTANTS, INC. AS-BUILT REVISION, DATED MAY 1995.



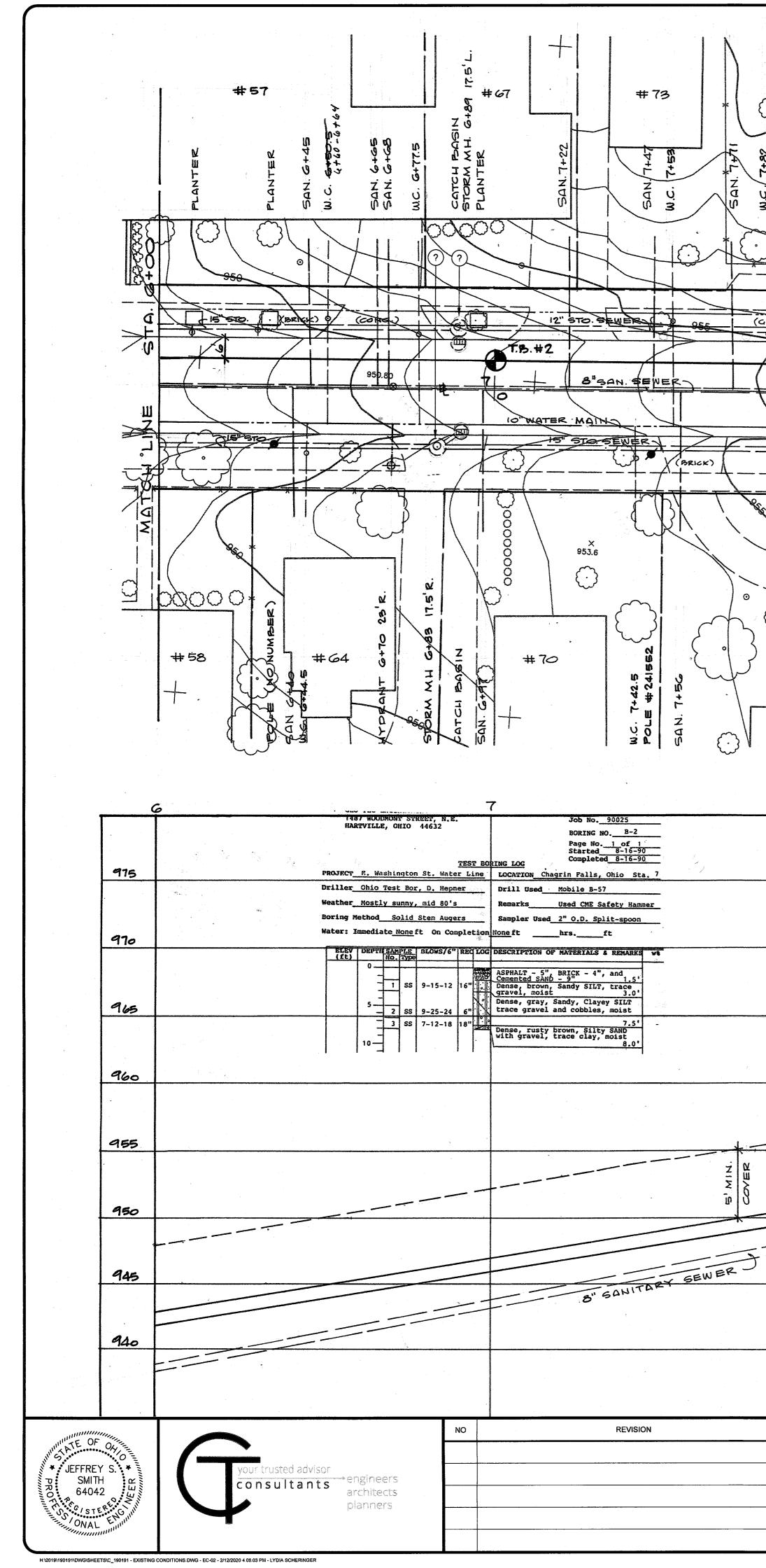
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PROJECT OVERVIEW

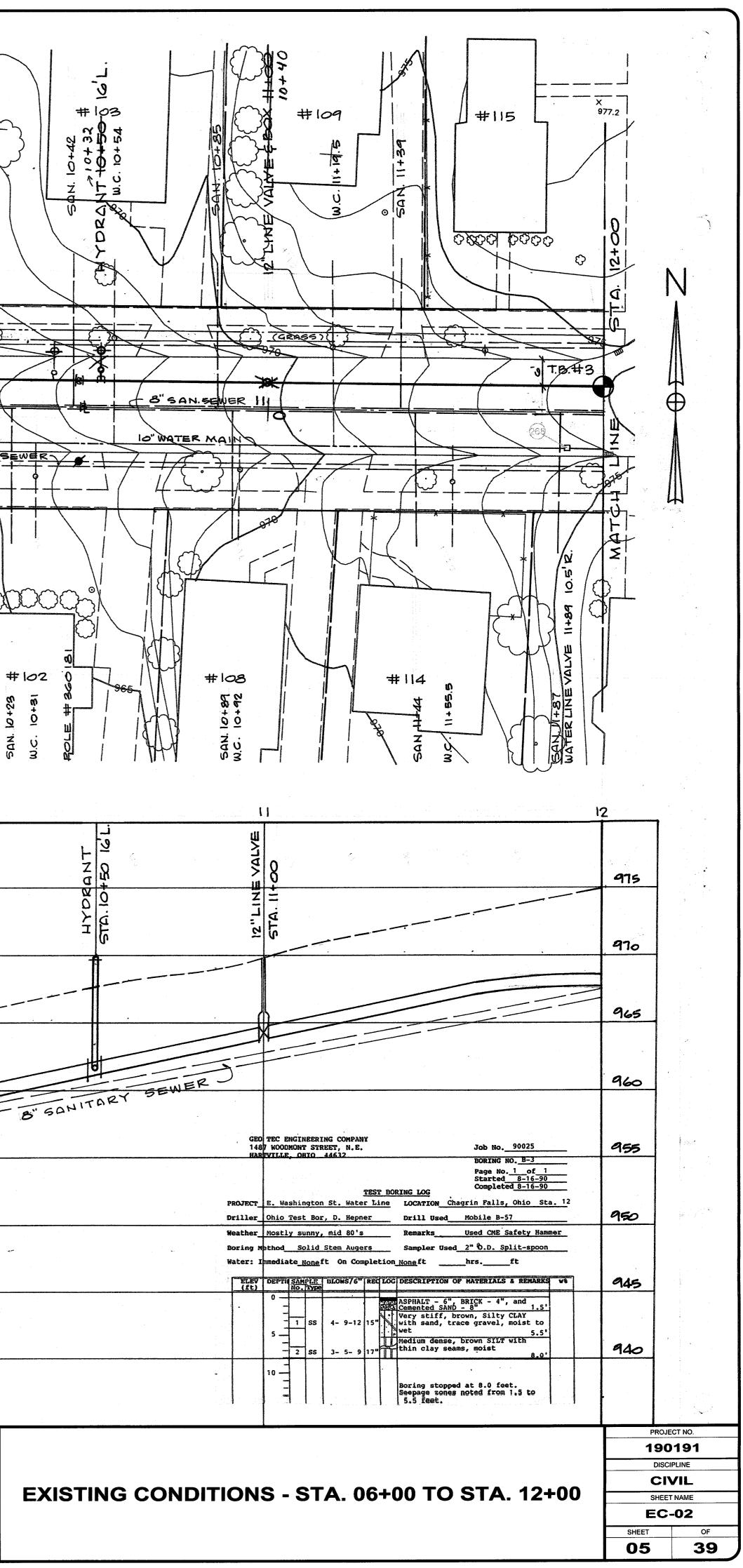
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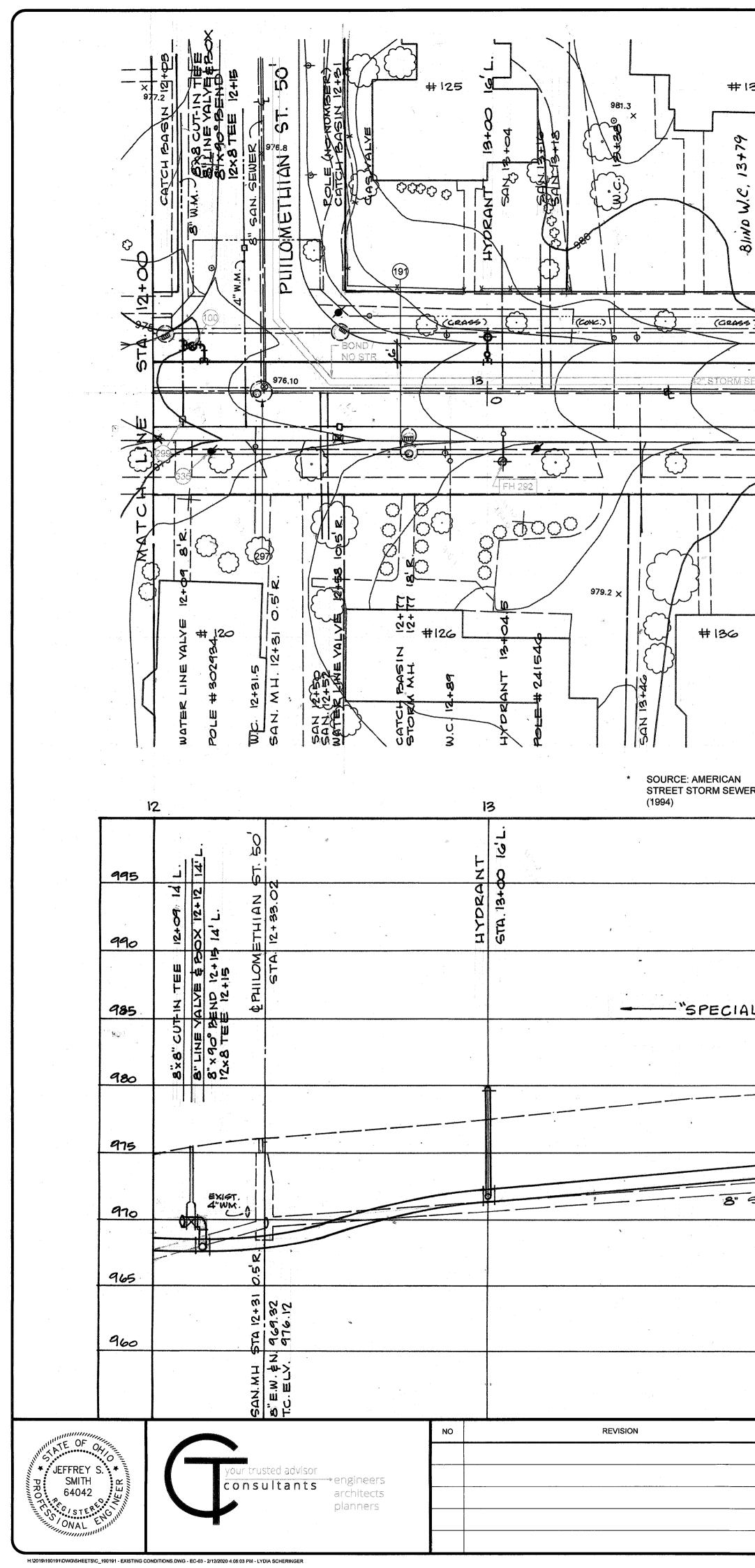


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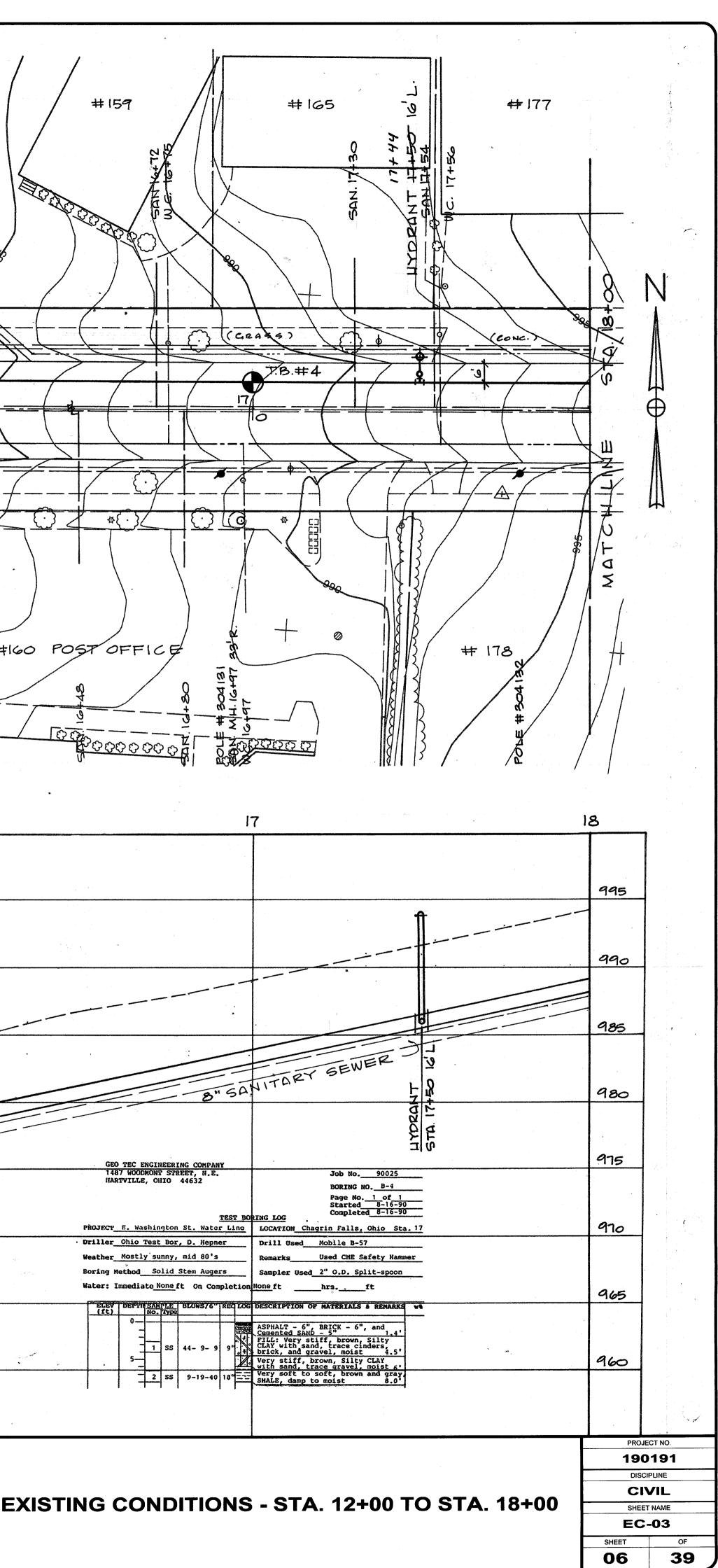


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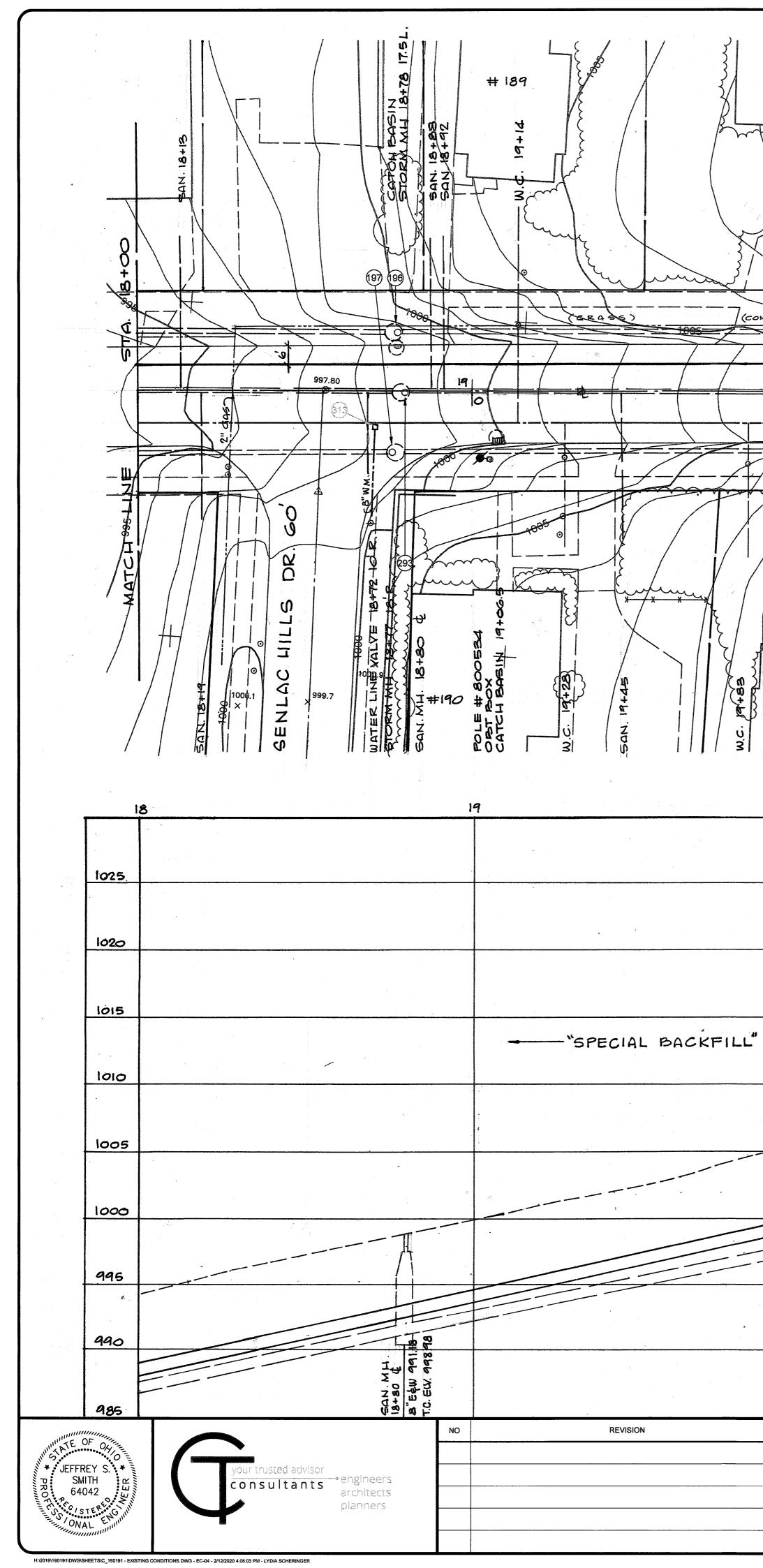




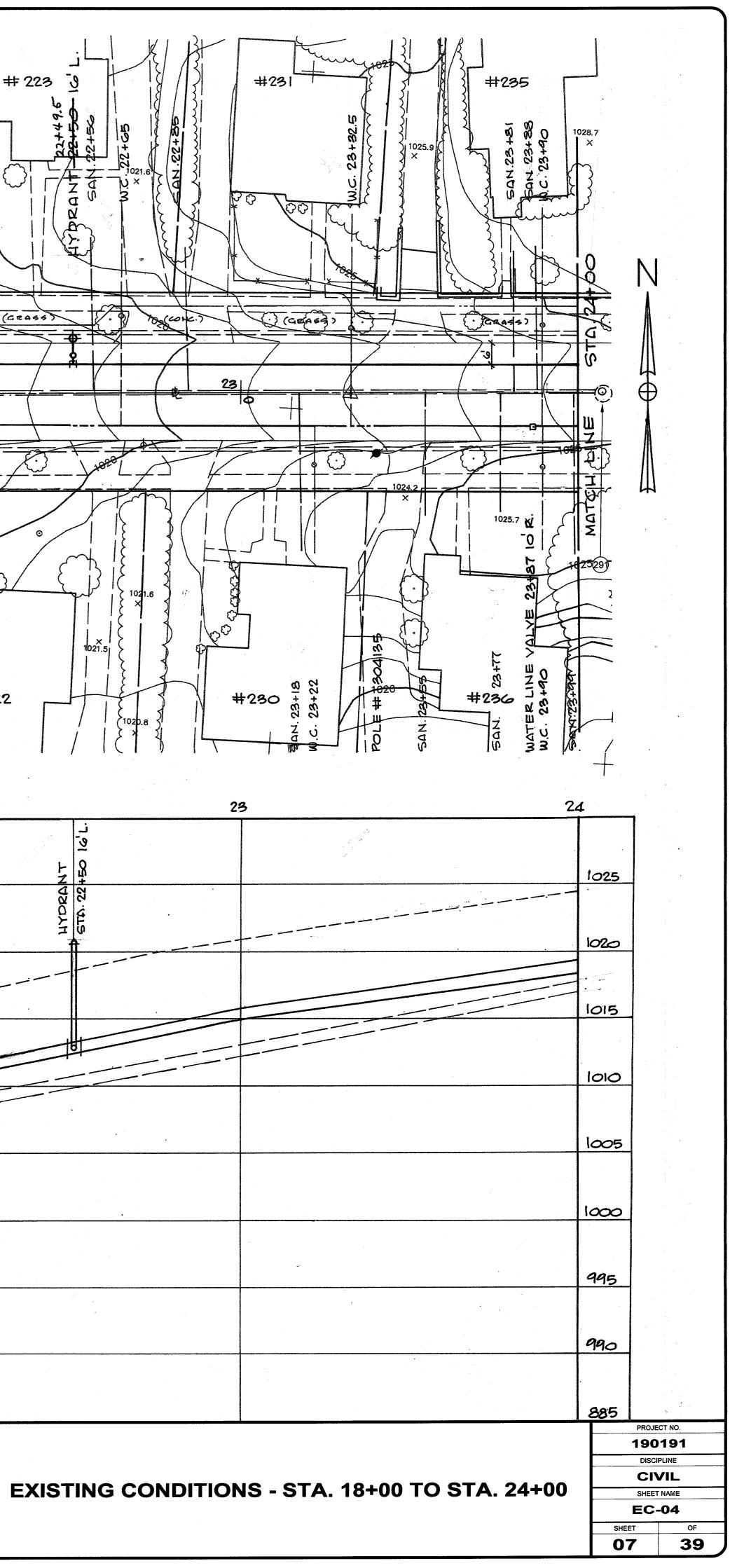
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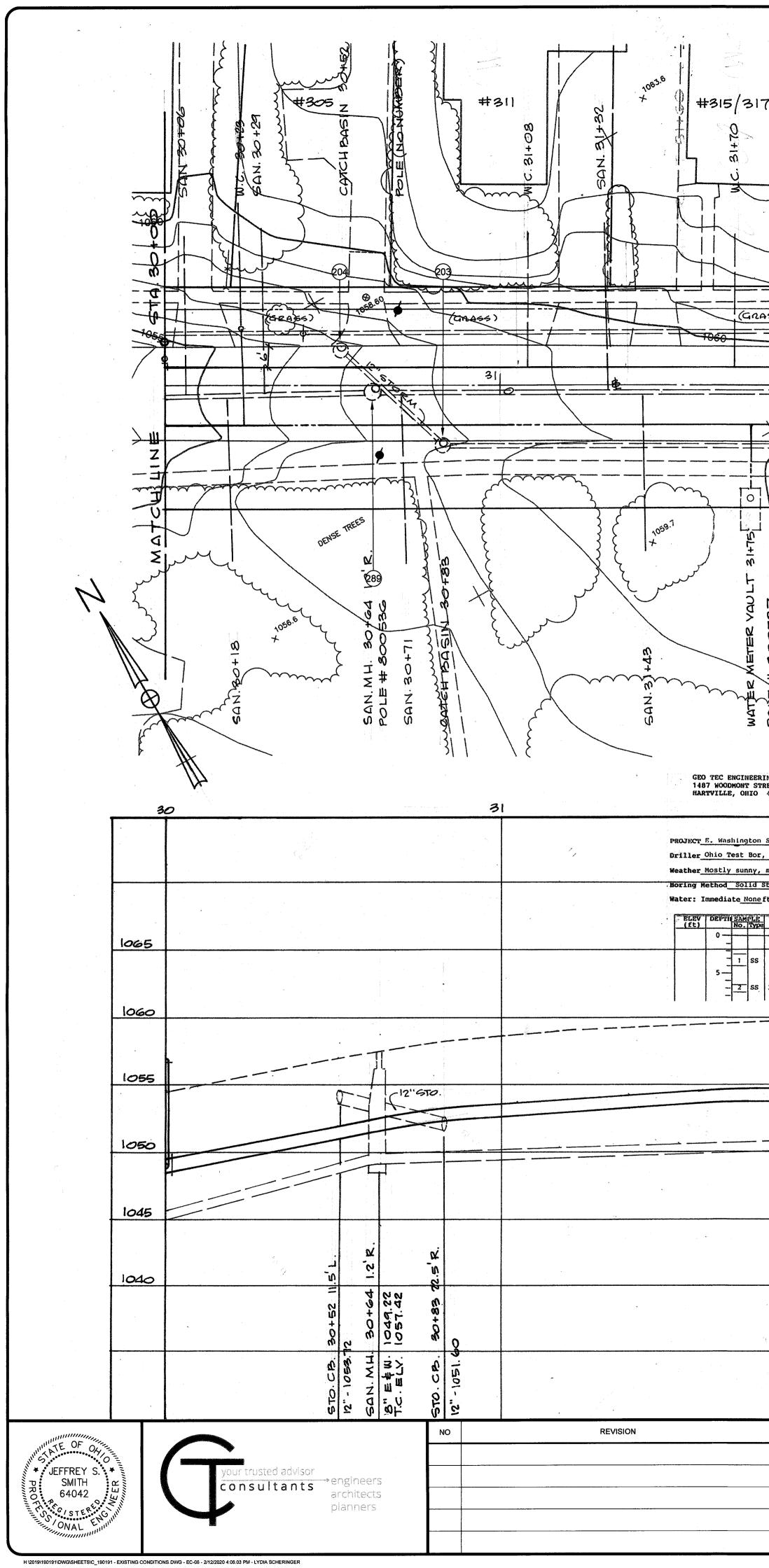
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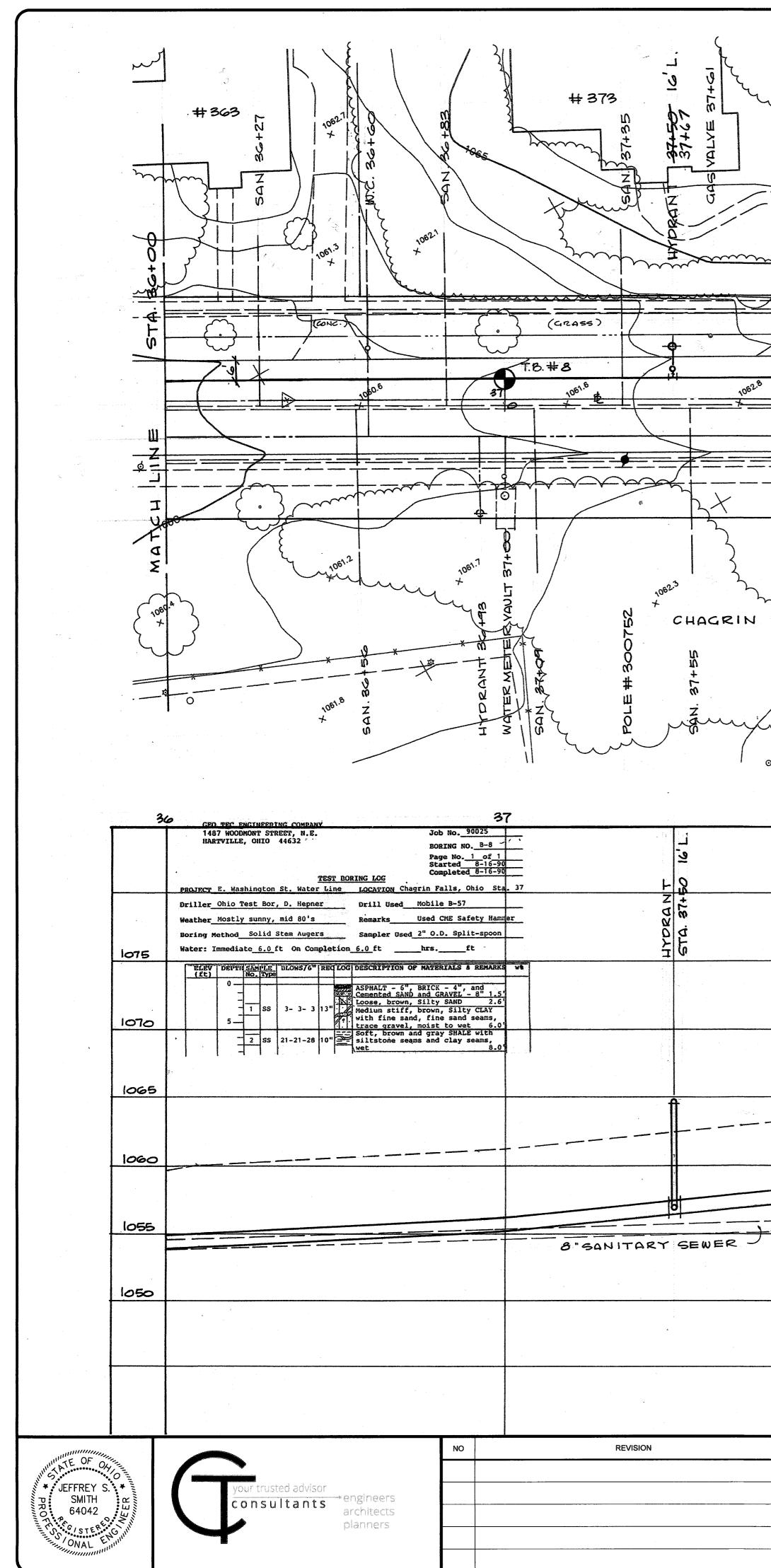
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PROJECT E. Washington St. Water Line LOCATION Chagrin Falls, Ohio Sta. 27 Driller Ohio Test Bor, D. Hepner Drill Used Mobile B-57	1055
Weather_Nostly sunny, mid 80's Remarks_Used CME Safety Hammer Boring Method_Solid Stem Augers Sampler Used 2" O.D. Split-spoon Water: Immediate None ft Introduction None ft	
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$\frac{5}{-2} = \frac{1}{2} \text{ ss } 8-24-22 16' = 0 \text{ moist in the sand, trace gravel, } 6.5' 12'' \text{ STO. } $	0 1045
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SANITARY SEWER REHABILITATION STALE AS SHOWN EXISTING CONDITIONS - STA. 24+00 TO	STA. 30+00 DISCIPLINE CIVIL SHEET NAME
& MISCELLANEOUS IMPROVEMENTS DESIGNED BY: JSS DRAWN BY: LGS	EC-05
CUYAHOGA COUNTY CHAGRIN FALLS, OHIO CHECKED BY: JSS	SHEET OF 08 39



AIT H 323 H 323 H 321 H 32		POLE # 304134 SAN 35755 4 MATCH LNE STA 36+00
EERING COMPANY STREET, N.E. IO 44632 Job No. 90025 H O' 32 BORING NO. B-7 BORING NO. 1 of 1 Started 0-16-90 V O' TEST BORING LOG Completed 8-16-90 32 ton St. Water Line LOCATION Chagrin Falls, Ohio Sta. 32 X Bor, D. Hepner Drill Used Mobile 8-57 X hy, mid 80's Regarks Used CME Safety Hammer Used CME Safety Hammer	$\frac{20}{5}$ $\frac{33}{34}$ $\frac{35}{2}$ $\frac{1}{2}$	36
one ft One ft hrsft LE BLOWS/6" REC LOG DESCRIPTION OF MATERIALS & REMARKS W% Market Market Market SS 9-14-18 18" Market Market Market 3.2' Very soft, brown with gray SHALE, Market Market SS 33-59 12" Soft gray SHALE, damp 7.5' BASEL Market Market Market Market	"SPECIAL BACKFILL" ENTIRE TRENCH LENGTH	1065
0 12" DIP 52	WATER MAIN WATER MAIN 8" SANITARY SEWER	1055
ЦҮЛКДИТ 5та. 32+50 16		1045
	EXISTING UTILITIES AND SERVICE CONNECTIONS SHOWN HEREON ARE PLATTED FROM BEST AVAILABLE INFORMATION AND ARE NOT CERTIFIED TO BE CORRECT.	
DATE EAST WASHINGTO SANITARY SEWER RE & MISCELLANEOUS IN CUYAHOGA COUNTY	Issued FOR: FINAL Issue date: 2/6/2020 SCALE: AS SHOWN EXISTING CONDITIONS - STA. 30+00 TO STA. 36+00	PROJECT NO. 190191 DISCIPLINE CIVIL SHEET NAME EC-06 SHEET OF 09 39

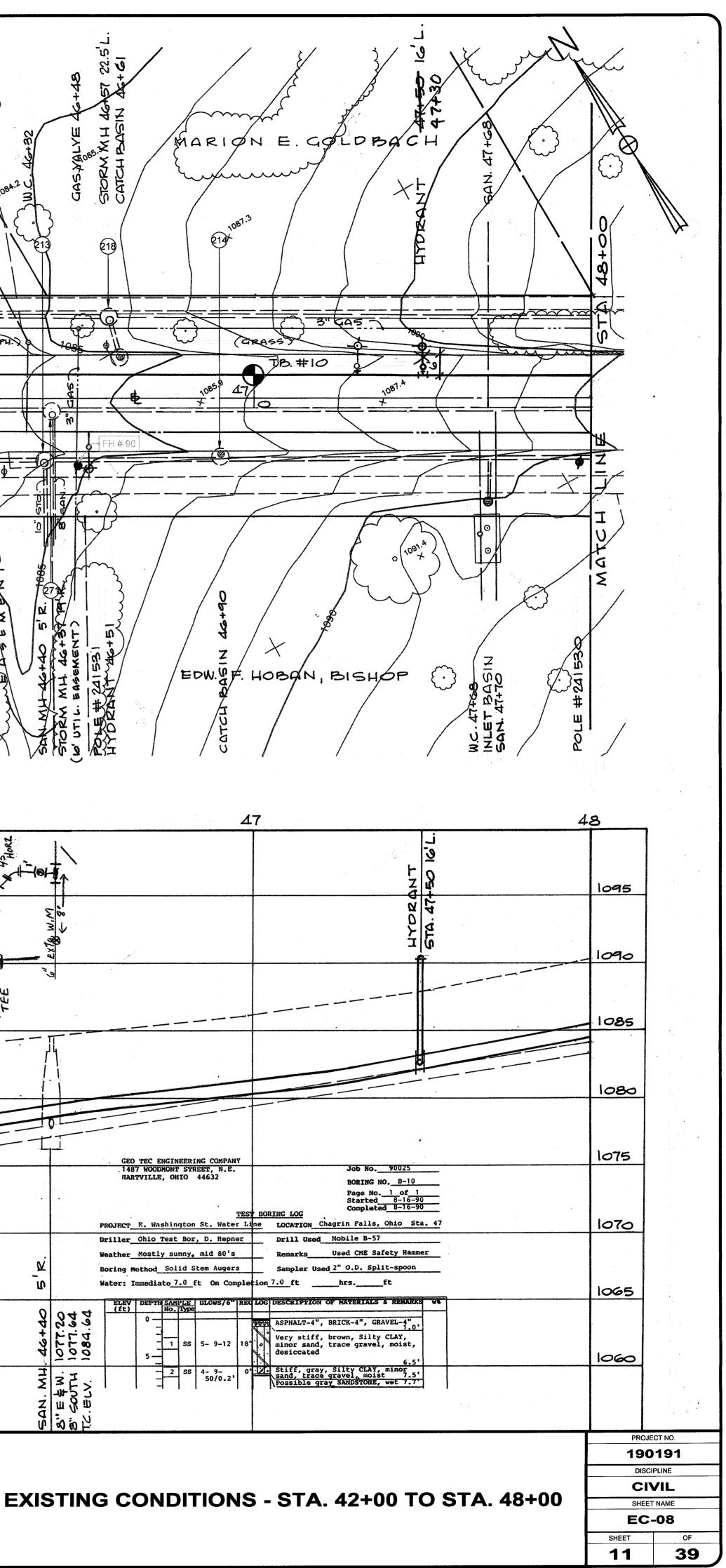
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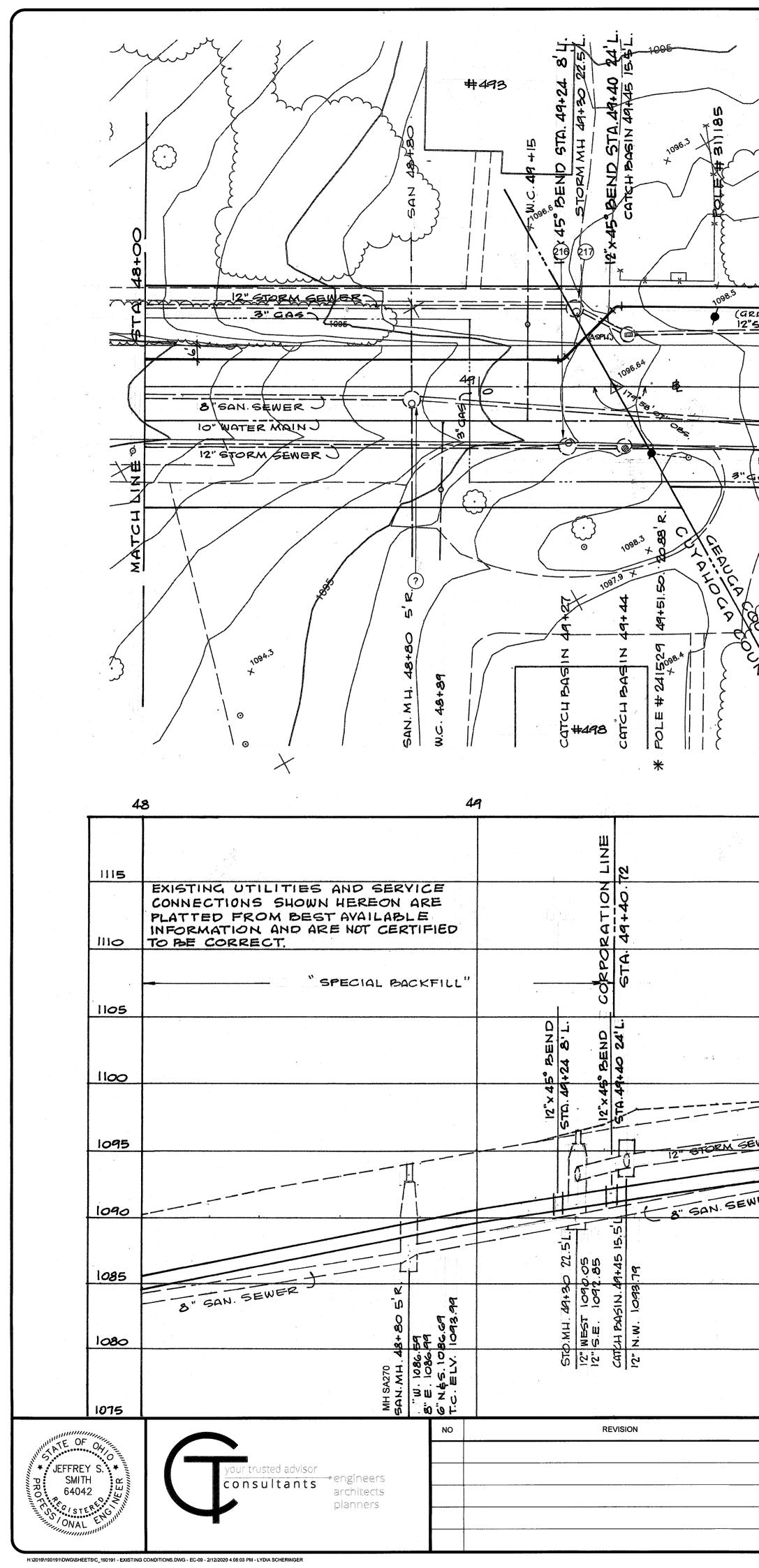


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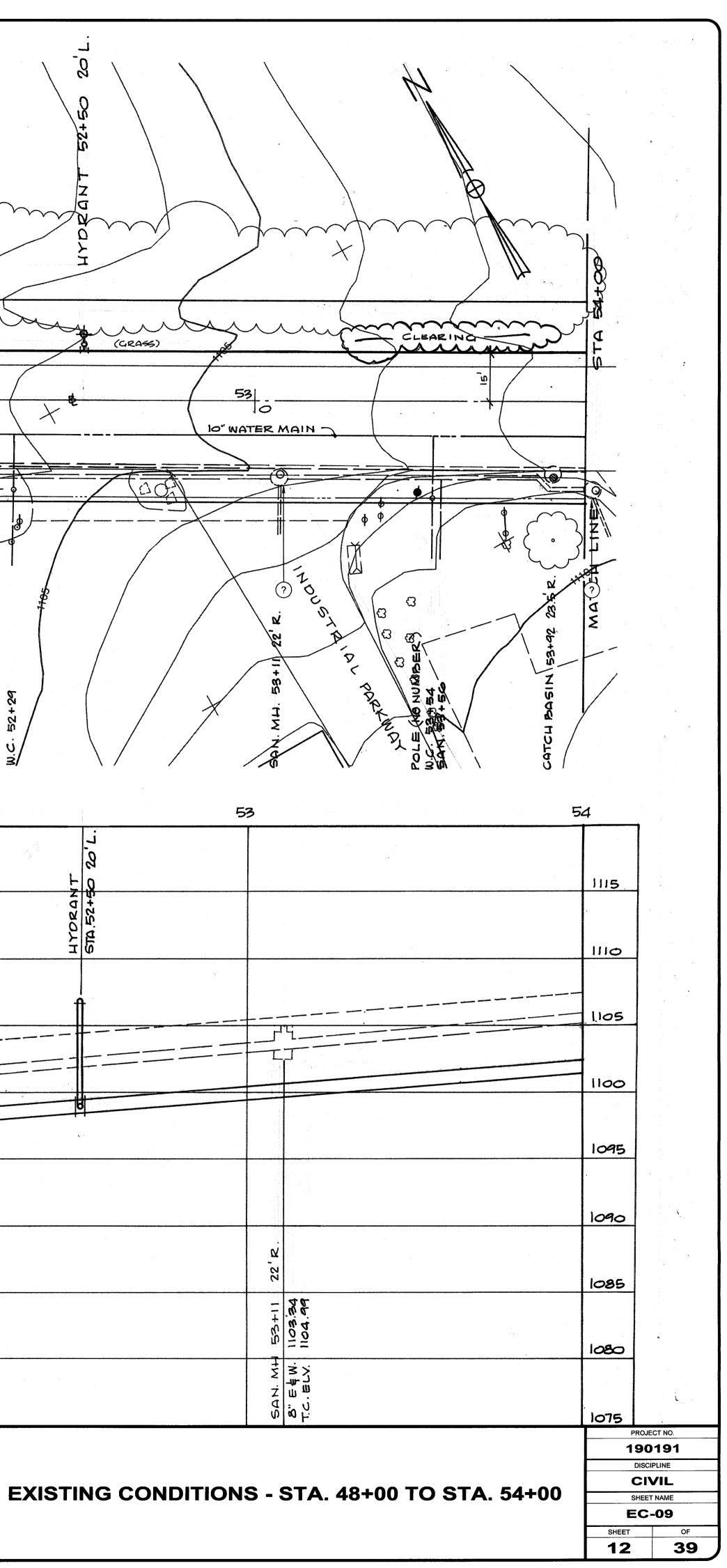
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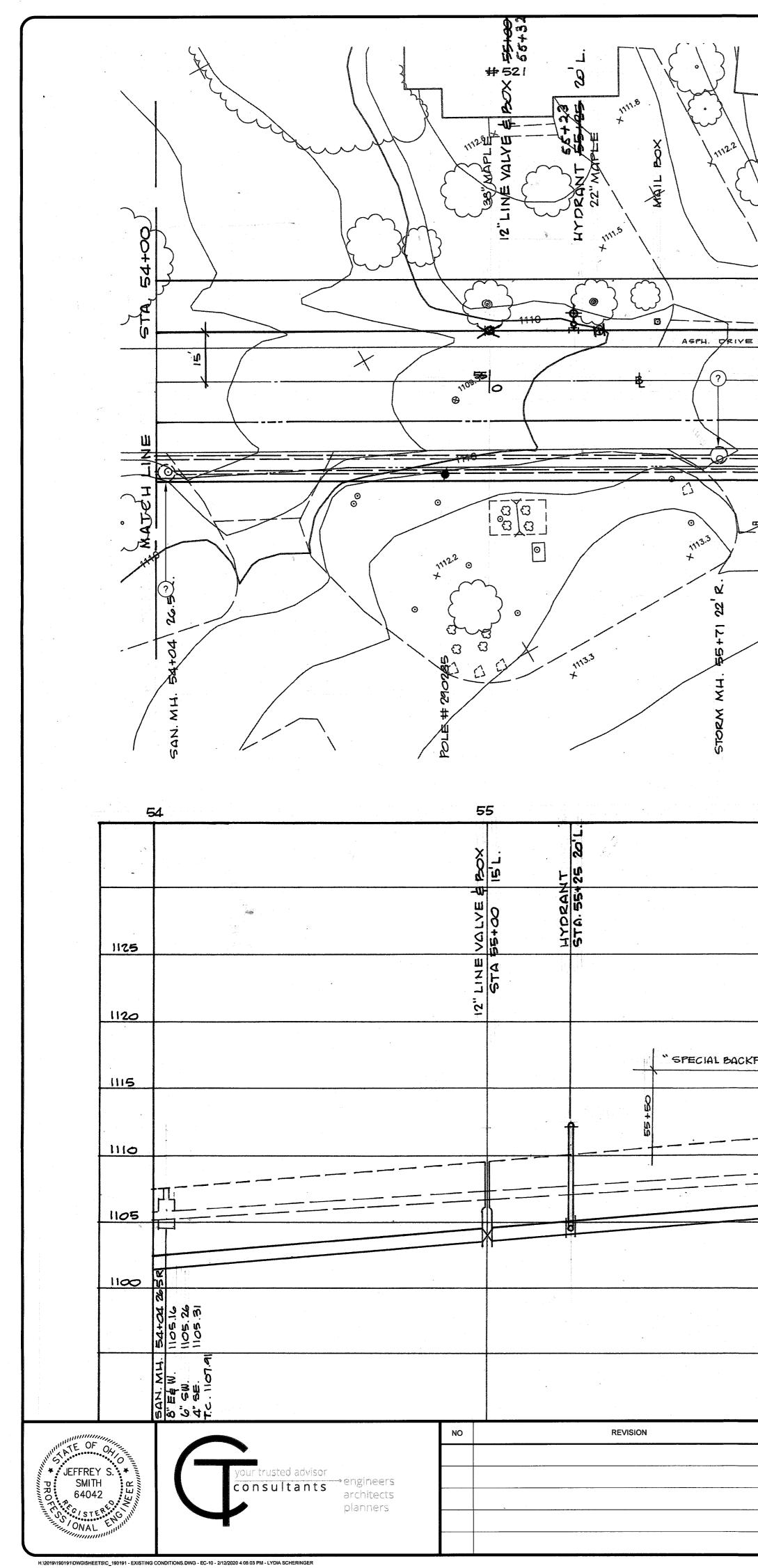
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JEFFREY S. * SMITH BRO 64042 SMITH CONSULTANTS CONSULTANTS PRO 7000000000000000000000000000000000000		EAST WASHINGTO SANITARY SEWER REI & MISCELLANEOUS IM CUYAHOGA COUNTY	N STREET HABILITATIONISSUE DATE:2/6/2020SCALE:AS SHOWN



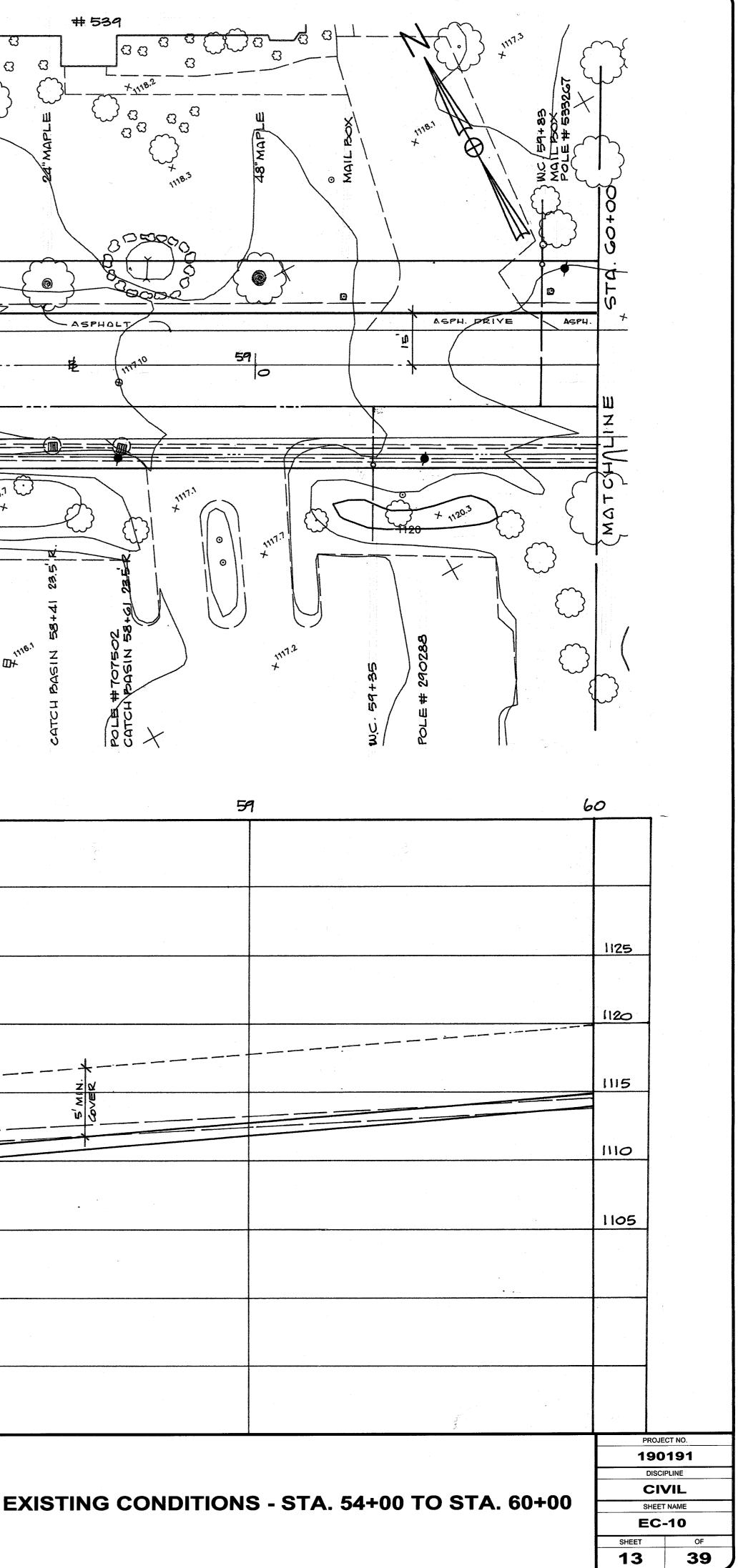


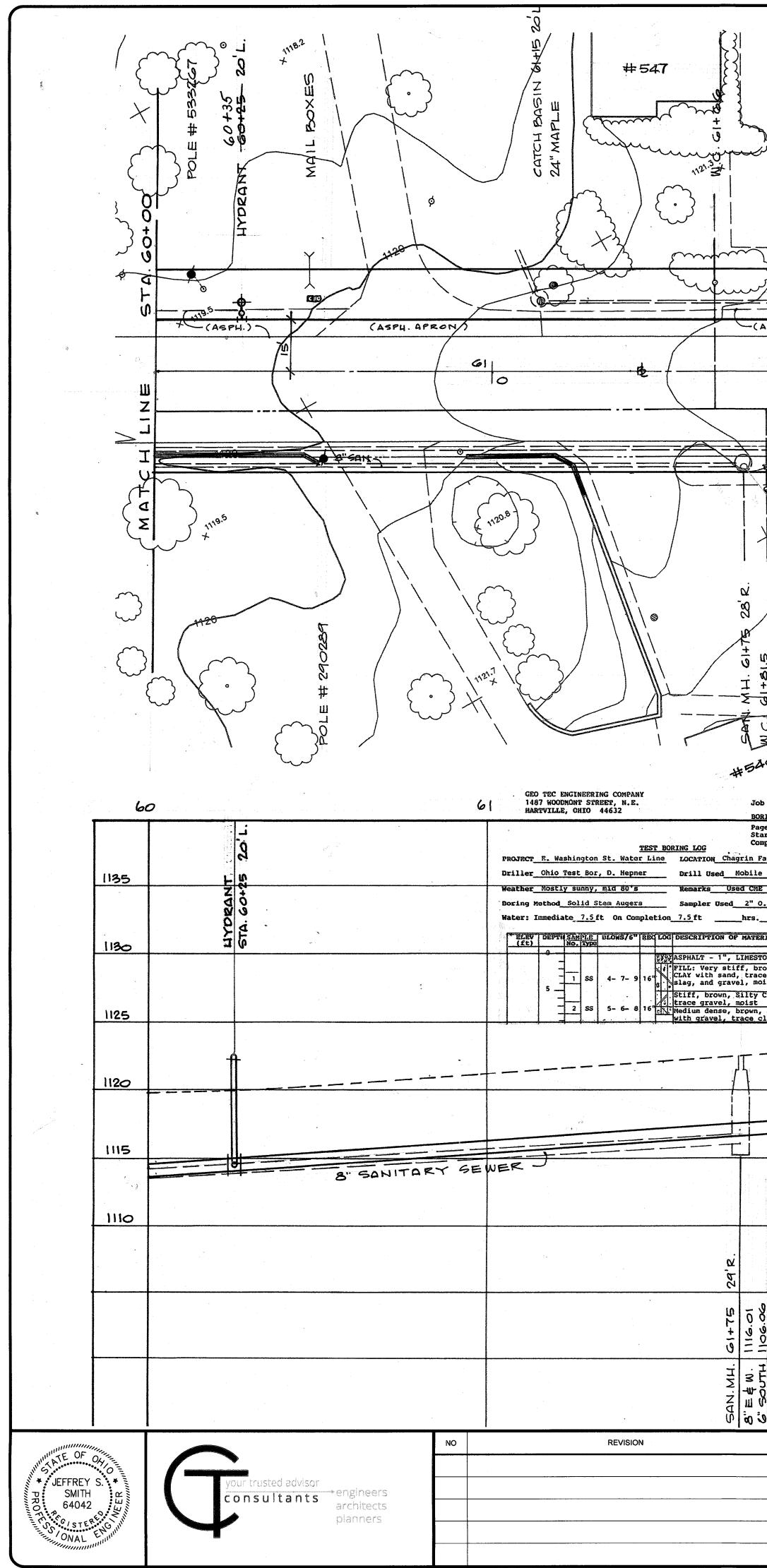
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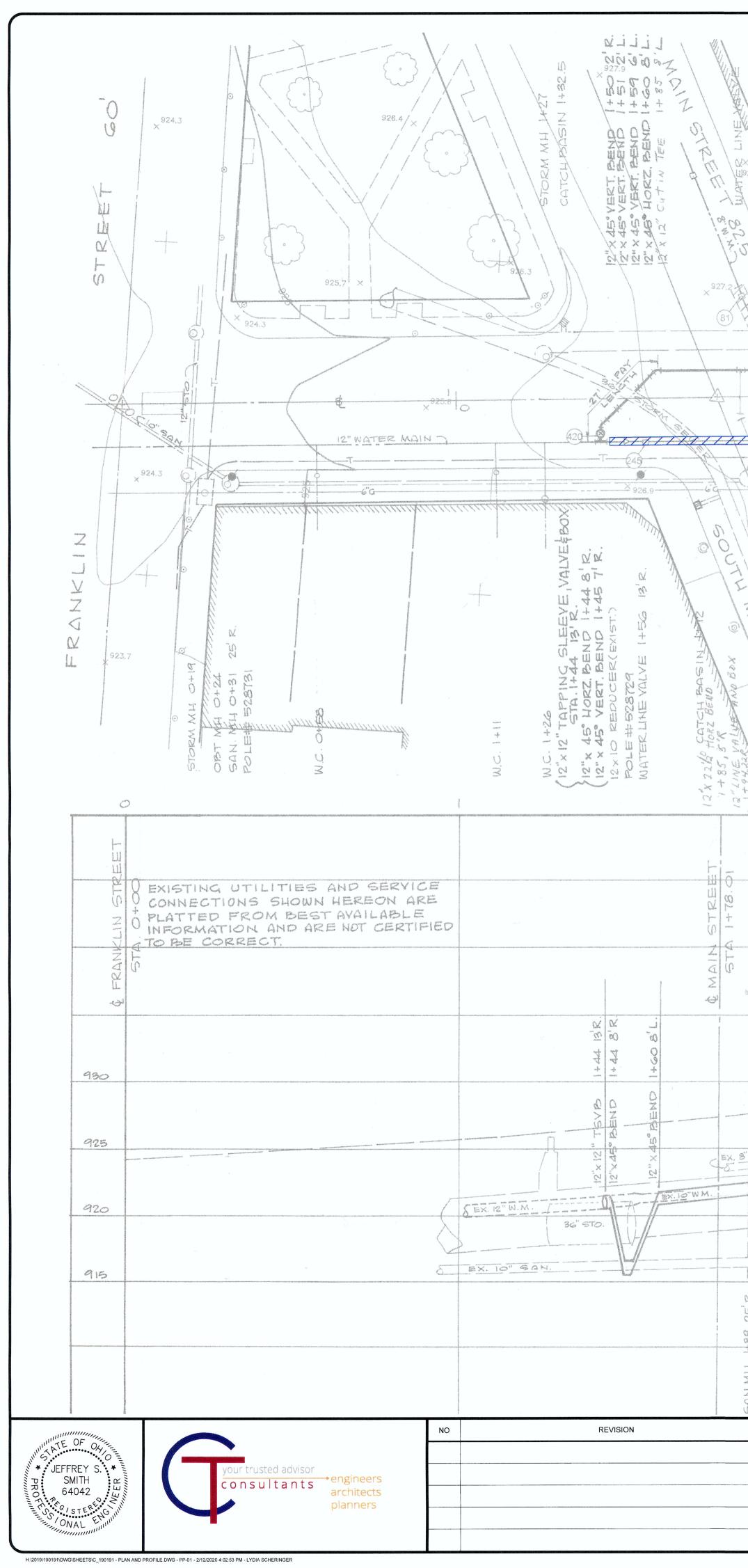


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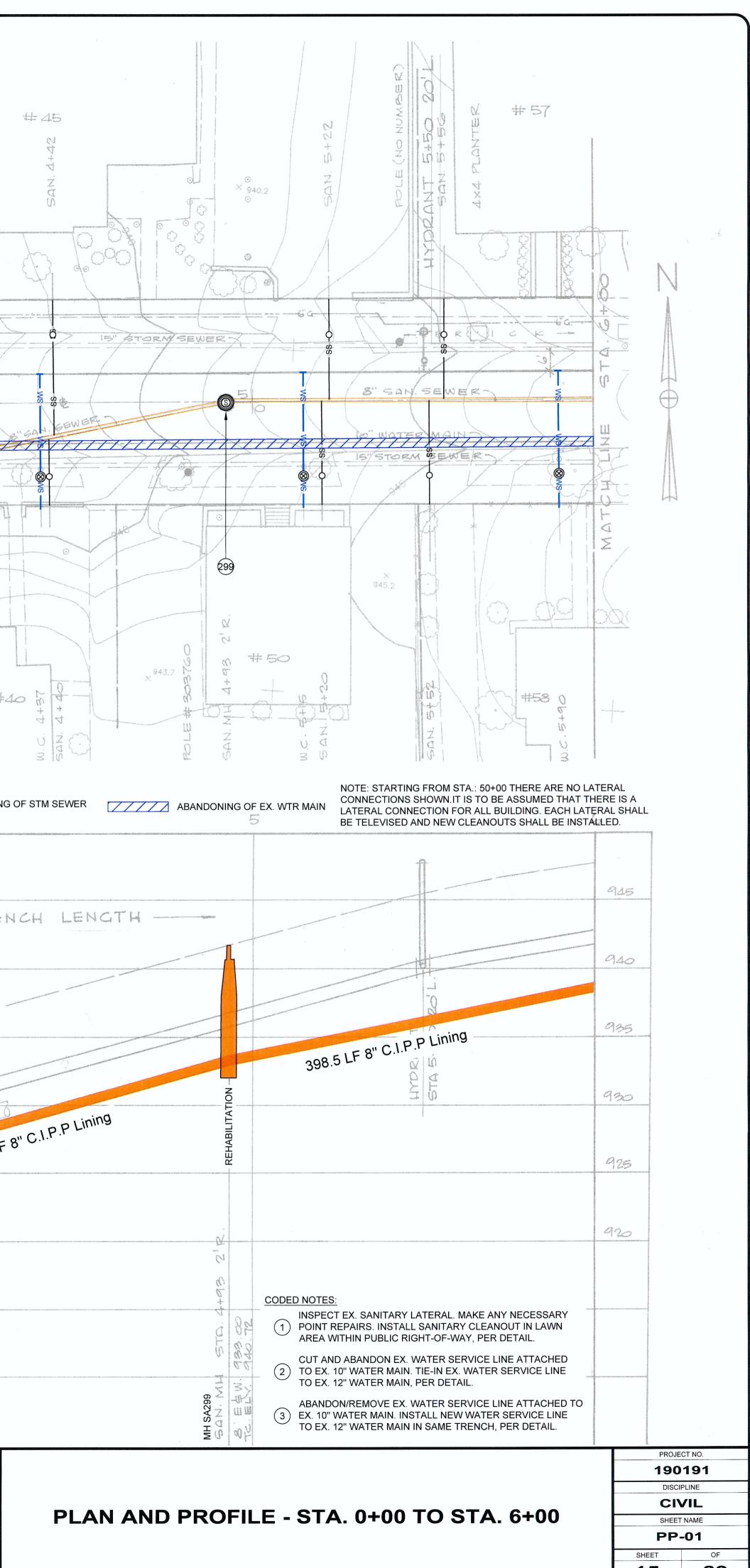




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	& MISCELLANEOUS IMPROVEMENTS	DESIGNED BY:	JSS LGS			EC SHEET	C-11
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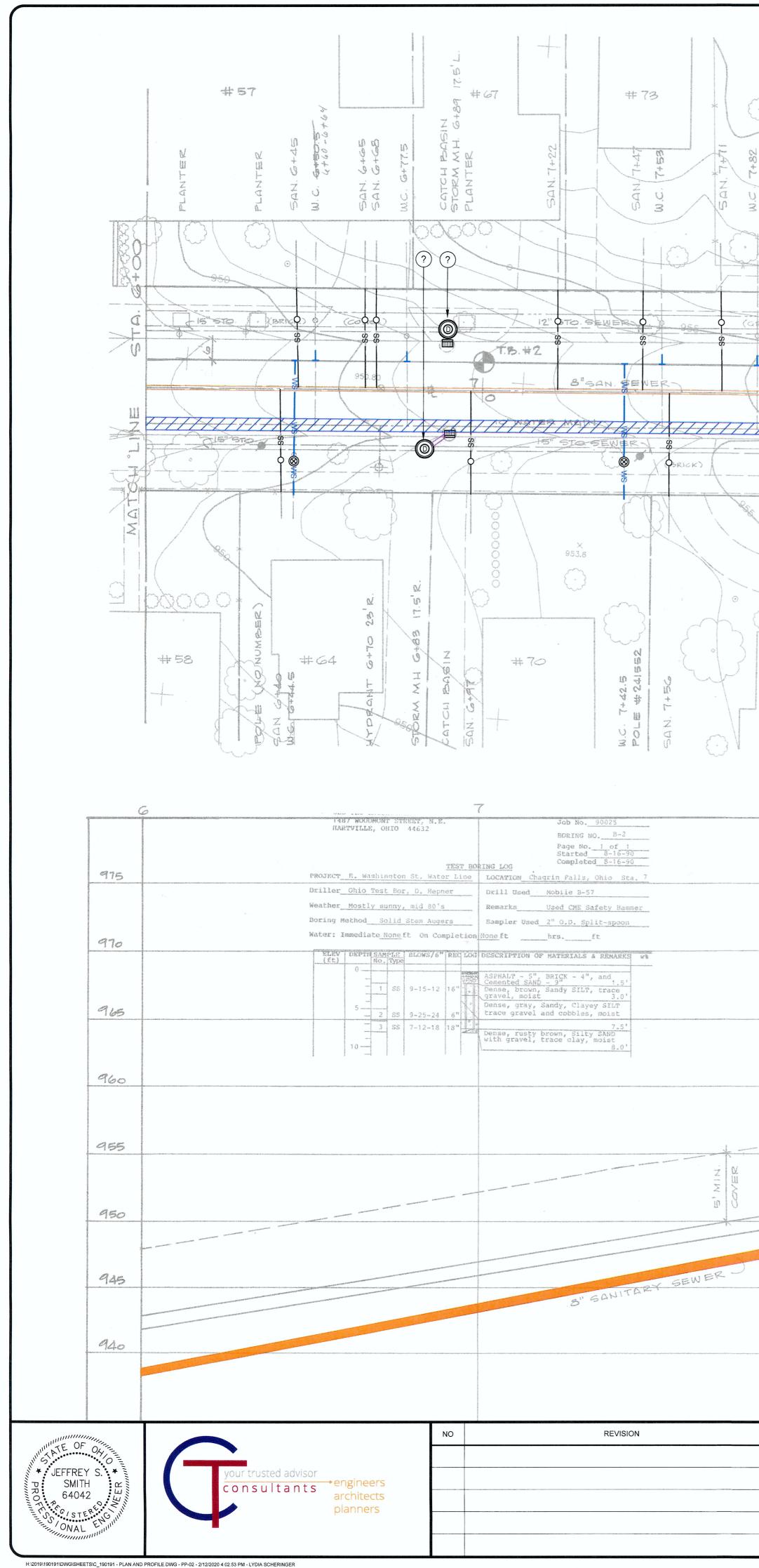


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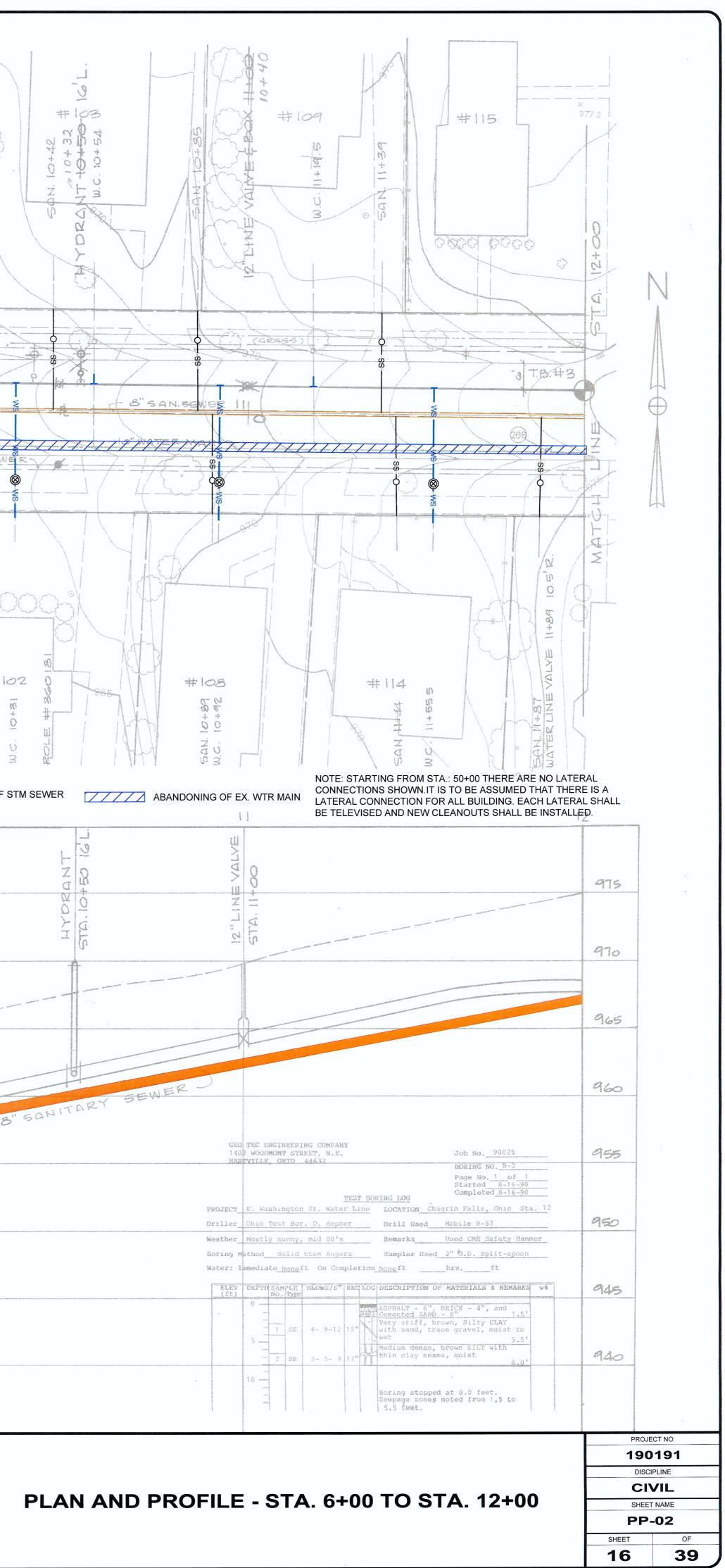


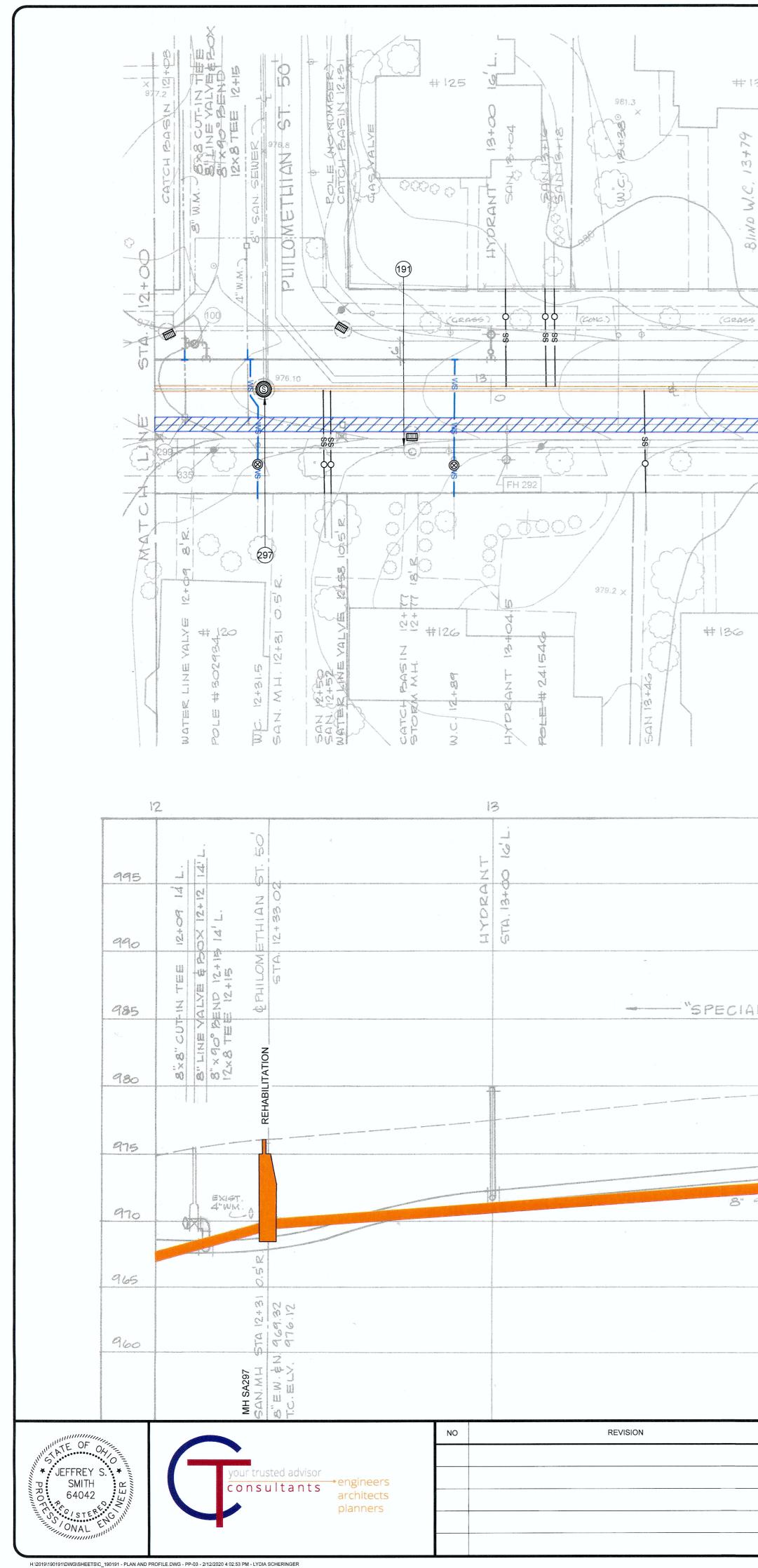
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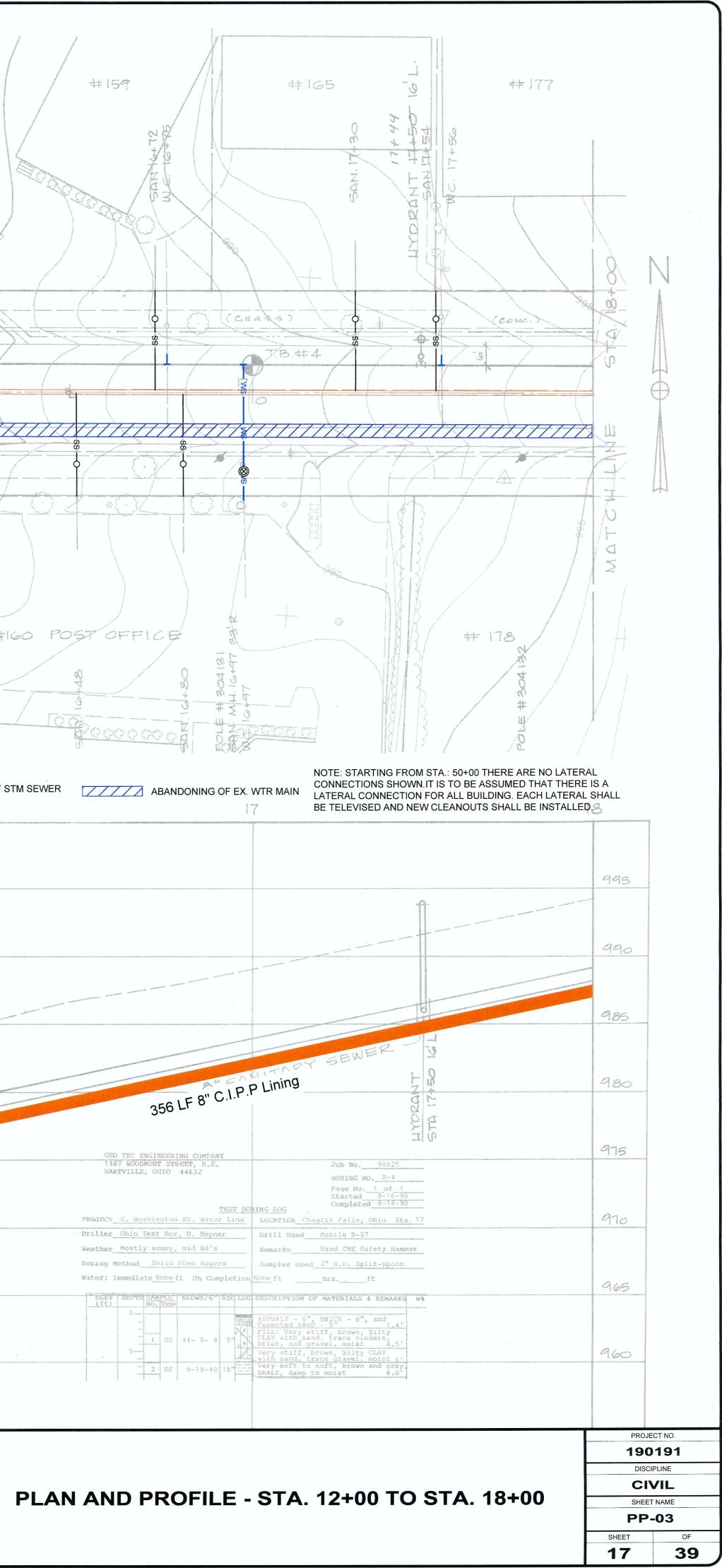


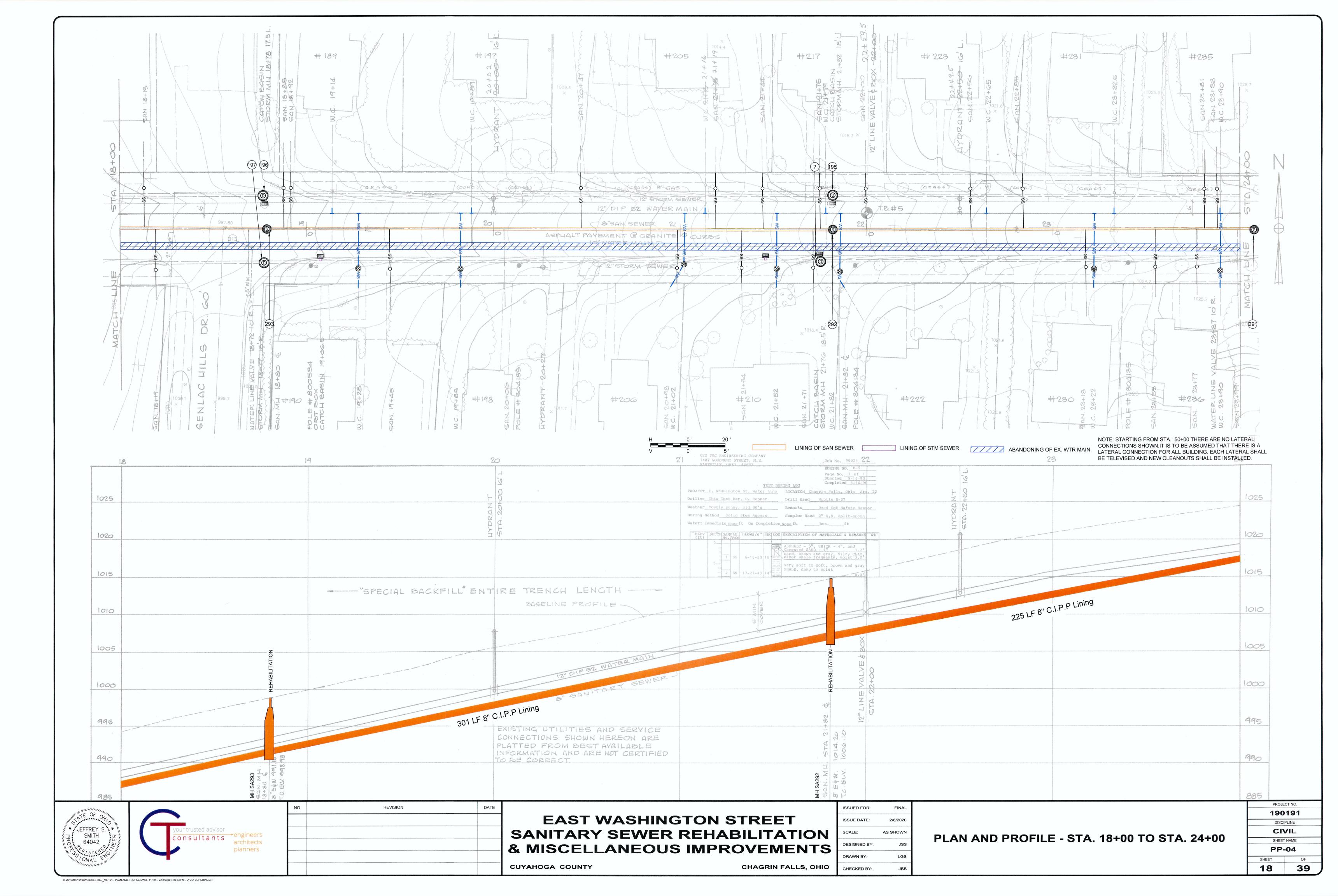
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MH SA298 SAN. MH. STA. 84 9 L5 O.5 R SAN. MH. 452.23 REHABILITATION T.C. ELV. 953.29	EXISTING UTILITIES AND SERVICE CONNECTIONS SHOWN HEREON ARE PLATTED FROM BEST AVAILABLE INFORMATION AND ARE NOT CERTIFIED TO BE CORRECT.
DATE EAST WASHING SANITARY SEWER F & MISCELLANEOUS CUYAHOGA COUNTY	REHABILITATION SCALE: AS SHOWN

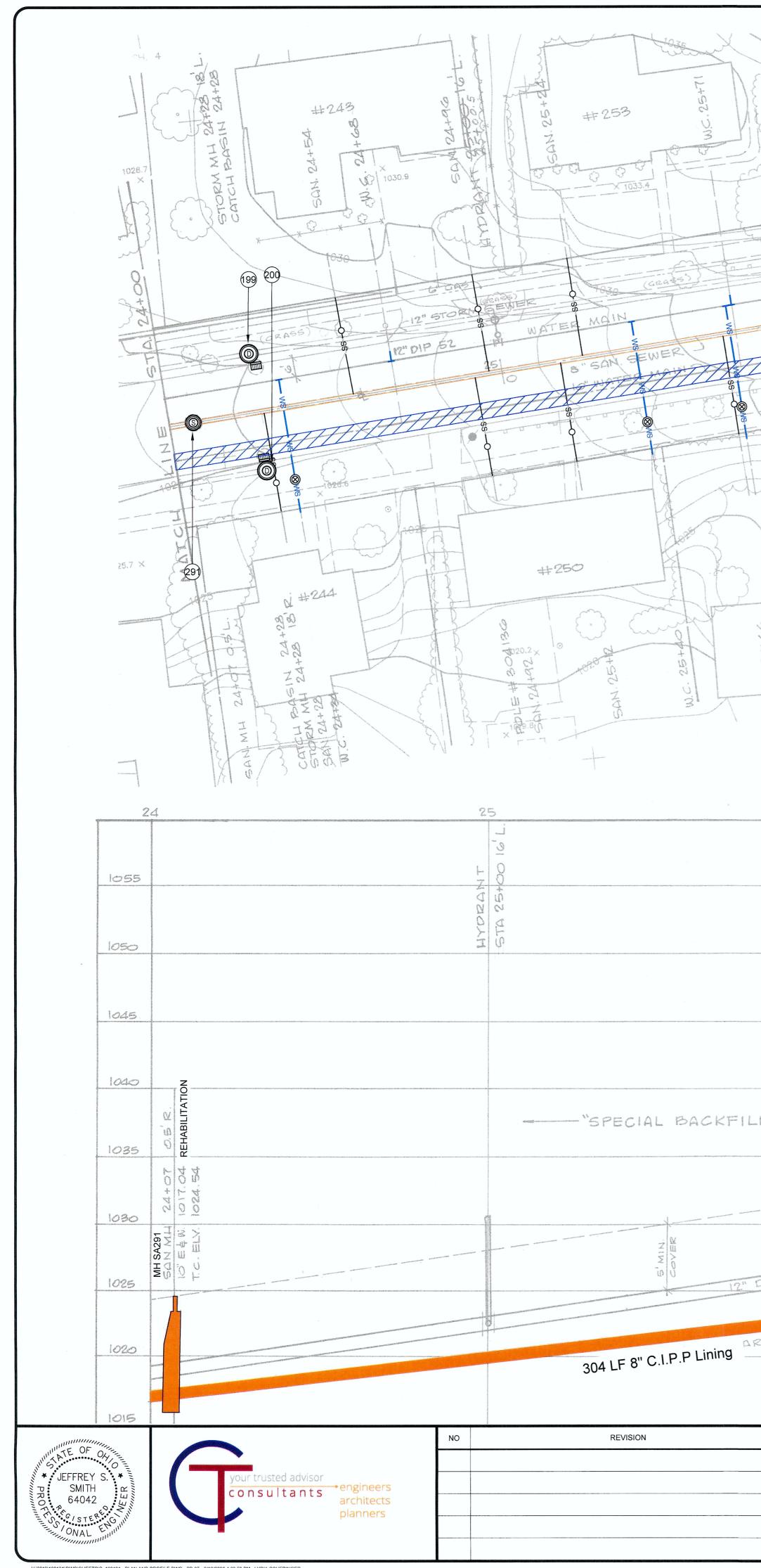




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L BACKFILL" ENTIRE TRENCH LENGTH BASELINE PROFILE	
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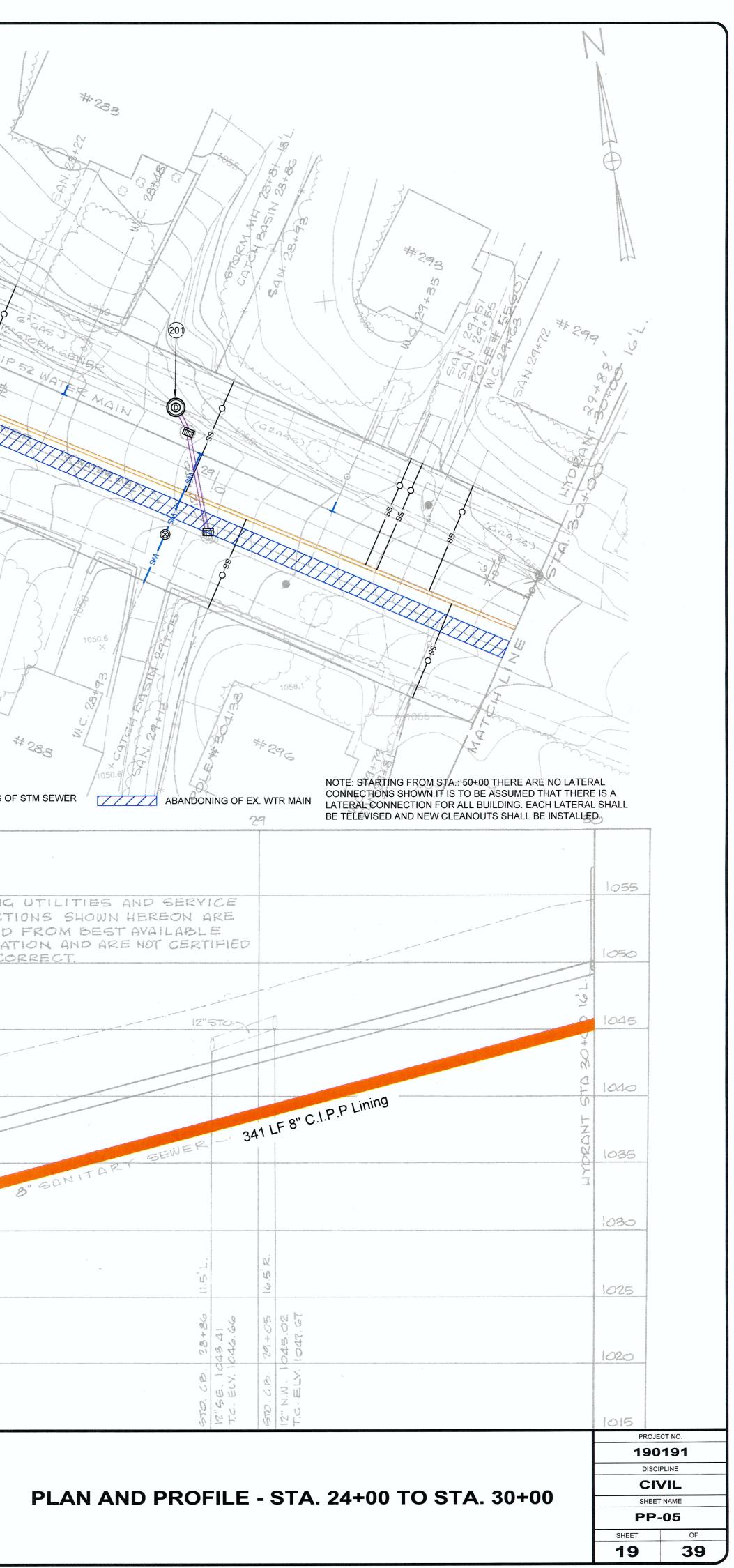


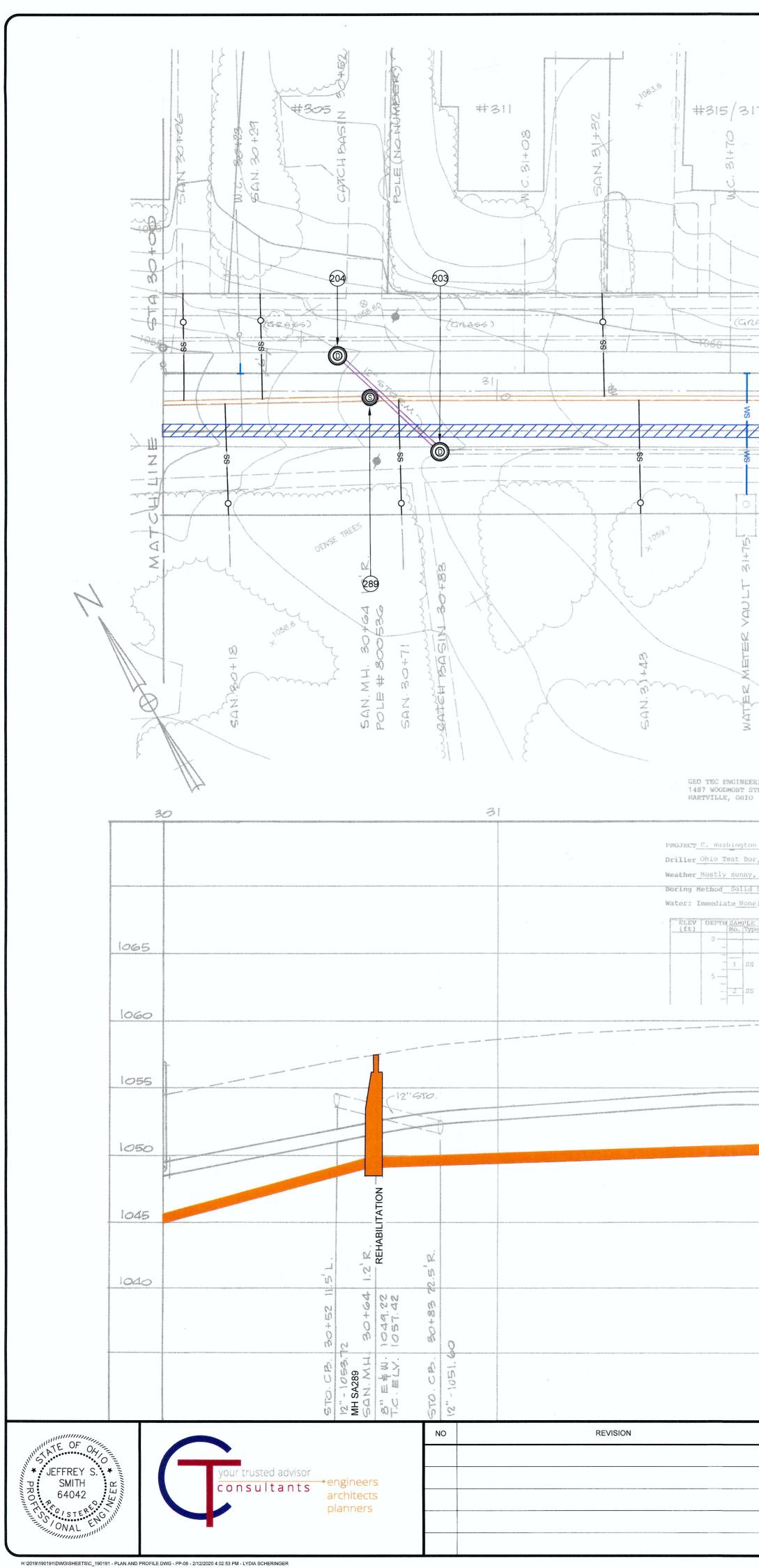




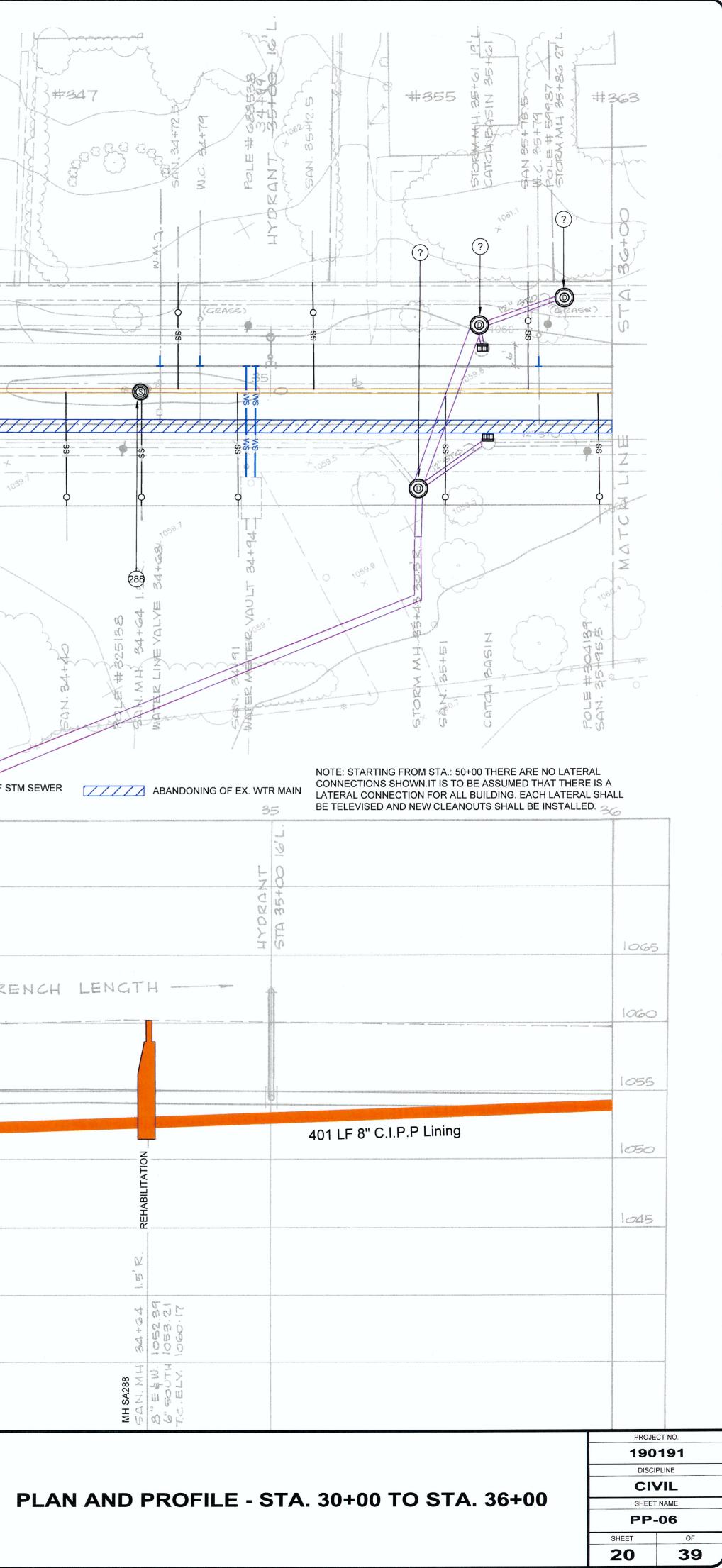
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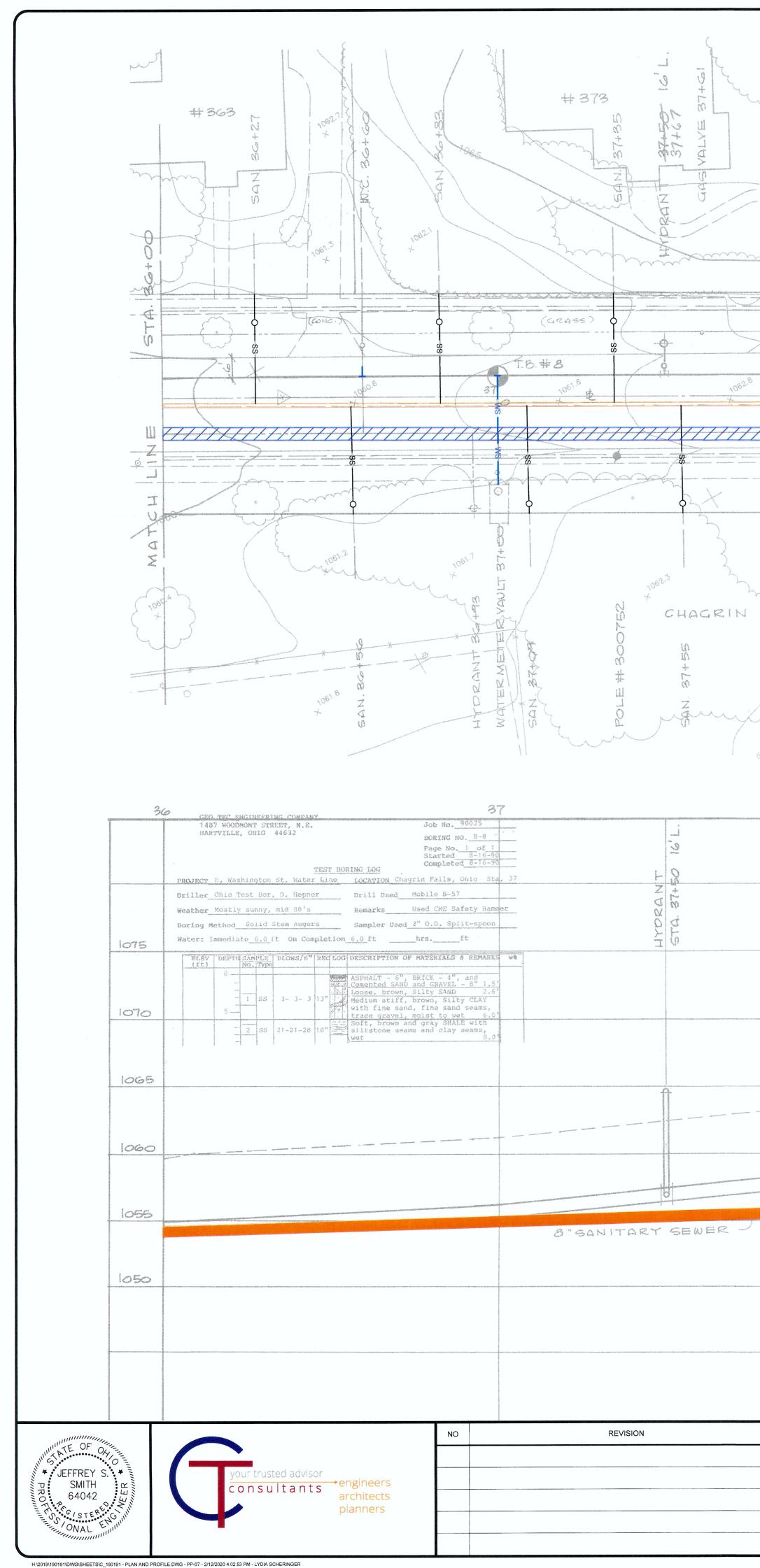
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GED TEC ENGINEERING C 1487 WOODMON' STREET, HARTVILLE, OHTO 4463 PROJECT E. Washington St. Driller Ohio Test Bor, D. Weather Mostly sunny, mid Boring Method Solid Stem Water: Immediate None ft Of ELEY DEPTH SAMPLE DEOM (ft) No. Type	N.E. Job No BORING N Page No Started Complete Water Line LOCATION Chagrin Falls, Hepner Drill Used Mobile B-57 80's Remarks Used CME Sa Augers Sampler Used 2" O.D. Spl n Completion None ft hrs NS76" REQ LOG DESCRIPTION OF MATERIALS	0. <u>B-5</u> <u>1</u> of <u>1</u> <u>8-16-90</u> <u>d</u> <u>8-16-90</u> <u>Ohio</u> Sta. 27 <u>ifety</u> Hammer <u>it-spoon</u> <u>ft</u> <u># REMARKS</u>	LIYDRANT STA 27740 16'L.	NG OF SAN SEWER	EXISTING CONNECTI PLATTED INFORMAT TO BE CON
L'ENTIRE TRENC	1-22 16 Wedium to stiff, brown, S CLAY with sand, trace gra moist Very soft to soft, brown SHALE, damp to moist	Z.5' prown, CLAY, A.5' HILTY NVEL, 6.5' and gray 8.0' NOILTAIL NOITAI NOITAIL NOITAIL NOITAIL NOITAIL NOITAIL NOITAIL NOITAIL NOI	12"×11% BEND		
DIP 52 WATER MAIN RY SEWER	EXIST. 8" P.Y.C. W.M. B.X.C. W.M. B. X.30, BEND S. X.30, B	MH SA290 SAN MH . 27+11 L'L. 8" E \$ W. 1025.72 7.C. E LV. 1036.30 570. CB. 27+27 38.5' K.	12" 1032.81 TL. 1036.06 5TO. MH 27+32 12.5' L. 12"5. 1031.63 T.C. 1036.73		
SANIT	ST WASHI ARY SEWE CELLANEO	NGTON S R REHAE	BILITATIO	DESIGNED BY:	FINAL 2/6/2020 AS SHOWN JSS LGS JSS



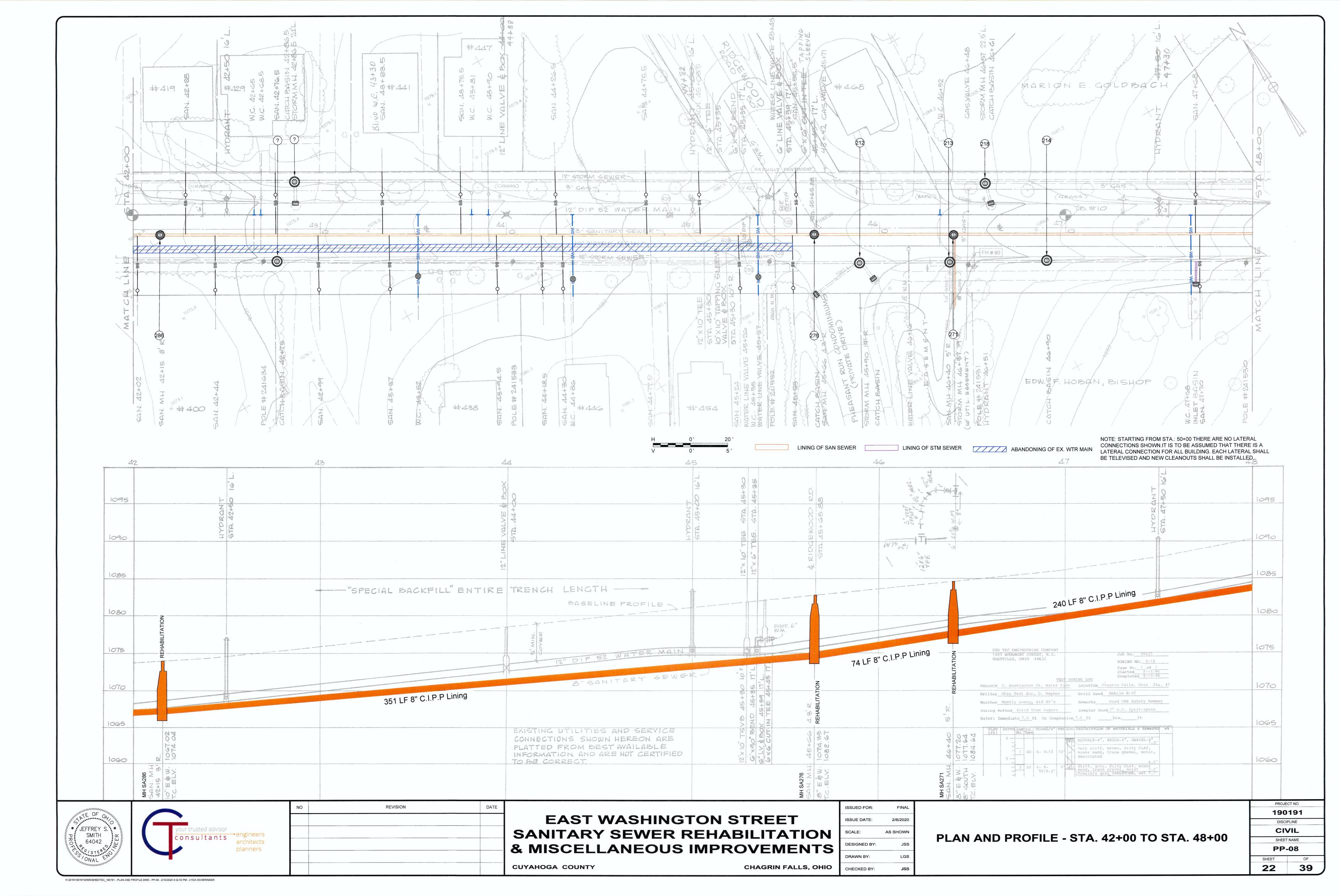


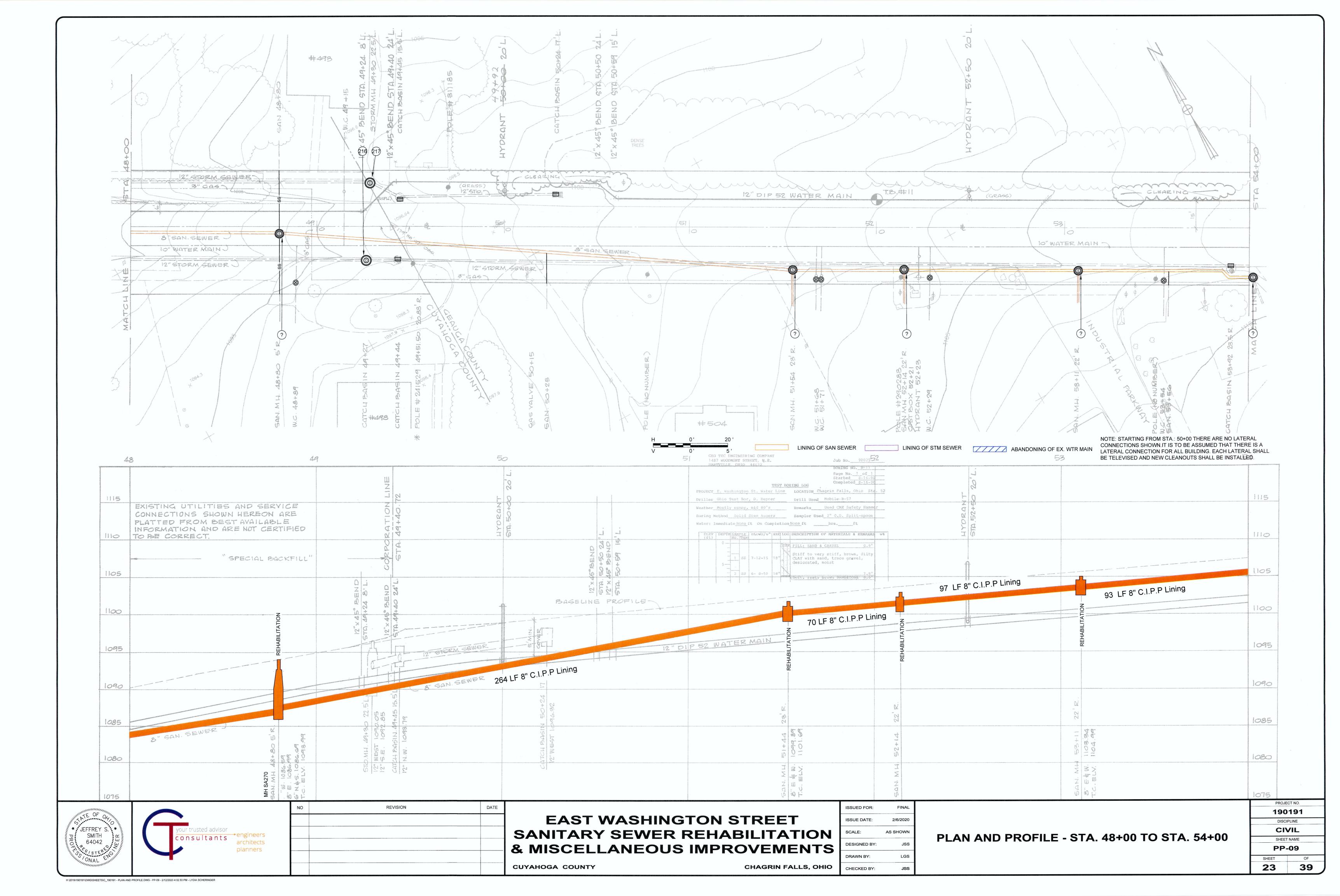
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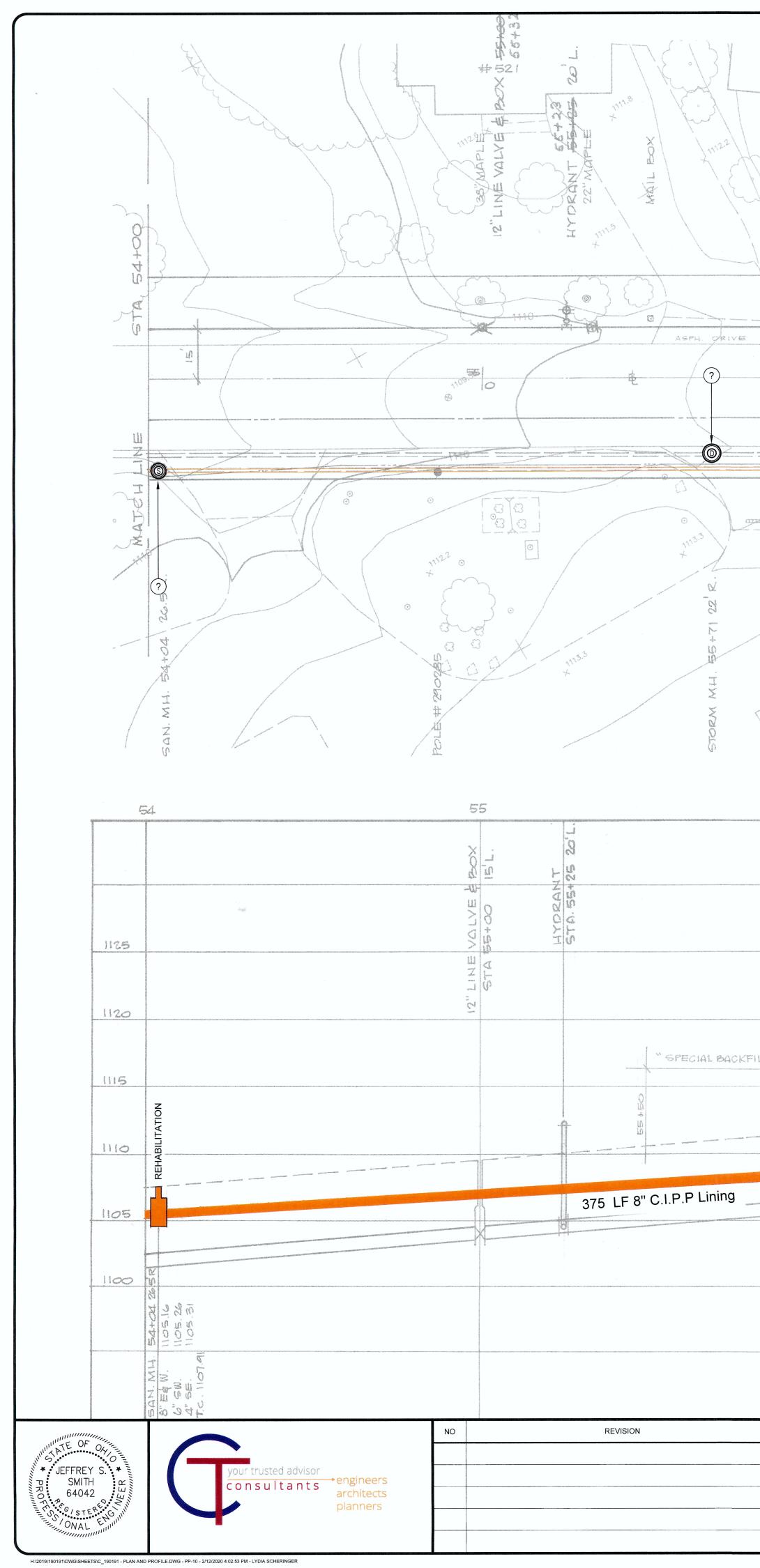




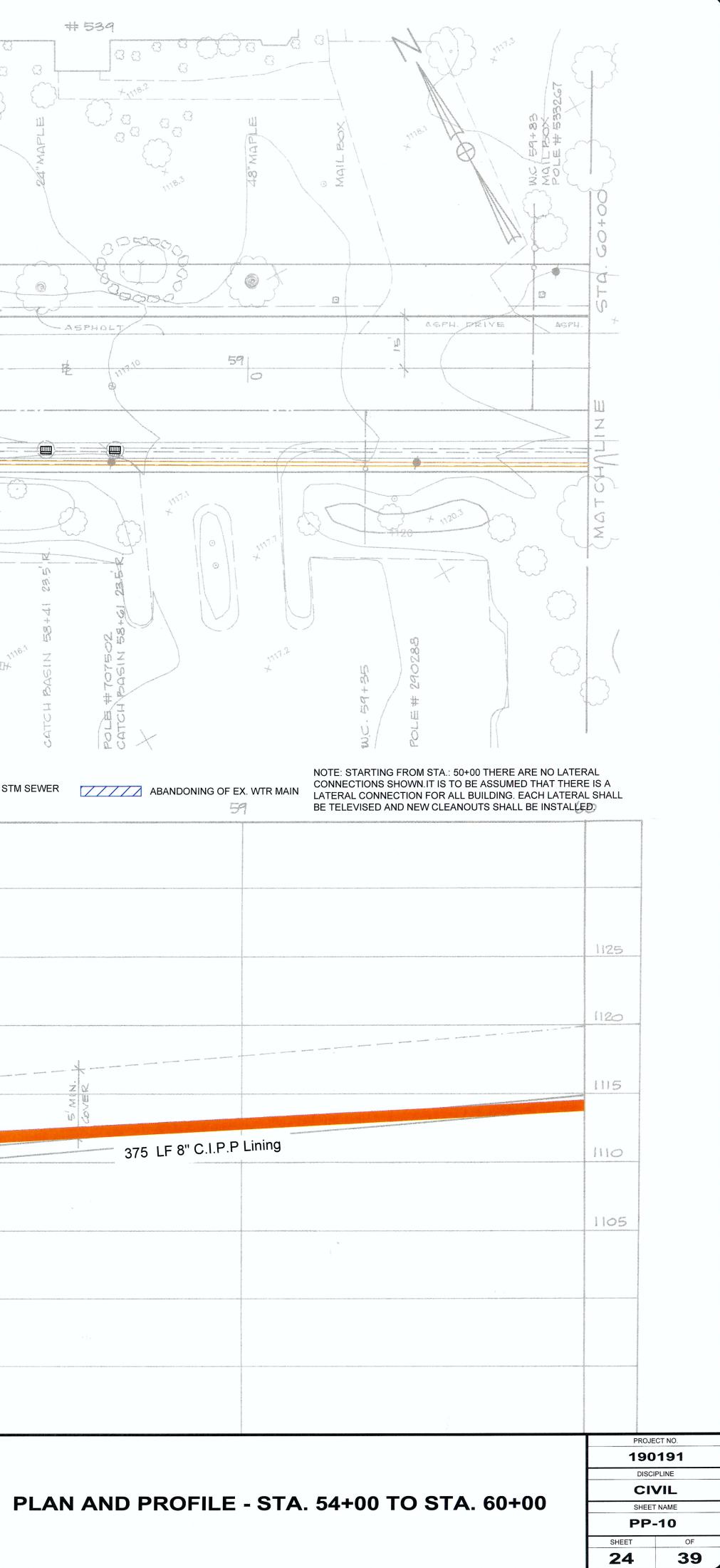
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NUMPER Prille_Ohio Past Bor, 0. Report brill bad Nobil NUMPER Prille_Ohio Past Bor, 0. Report brill bad Nobil Note: Translite Restart	Le B-57 CME Safety Hammer O.D. Split-spoon ft ERIALS & REMARKS with UN
DATE Image: Comparison of the comparis	PROJECT NO. 190191 DISCIPLINE CIVIL SHEET NAME PP-07 SHEET OF 21 39







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	HARTVILLE, OHIO 44632 <u>TEST</u> PROJECT E. Washington St. Water Lin Driller Ohio Test Bor, D. Hepner Weather Mostly sunny, mid 80's Boring Method Solid Stem Augers Water: Immediate 5.5 ft On Complet: Seepage <u>ELEV DEPTH SAMPLE</u> BLOWS76" RED (ft) 0	BORING NO. <u>B-1</u> Page No. <u>1</u> of Started <u>8-16-</u> Completed 8-16- Completed 8-16- Drill Used Mobile B-57 Remarks Used CME Safety Ham Sampler Used <u>2"</u> O.D. Split-spool ion Noneft <u>hrs.</u> ft LOC DESCRIPTION OF MATERIALS & REMAR ASPHALT-6", LIMESTONE BASE-7"1. Very stiff, brown, Silty CLAY with sand, trace gravel, moist Shiff, brown, Sandy, Silty CLAY with silty fine sams, trai gravel, moist to wet <u>B.</u>	1 90 90 30 a. 57 me 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
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ISSUED FOR:	FINAL
ISSUE DATE:	2/6/2020
SCALE:	AS SHOWN
DESIGNED BY:	JSS
DRAWN BY:	LGS
CHECKED BY:	JSS

CUYAHOGA COUNTY

CHAGRIN FALLS, OHIO

AERIAL OVERVIEW OF 2000LF ~ 6" SAN SEWER TO BE LINED FROM PANINIS TO WATER CONTROL STATION. LATERAL CONNECTION AT PANISIS IS AN APPROXIMATE LOCATION. 6 - INCH SEWER LINING BY C.I.P.P, FOLD AND FORM, PIPE BURSTING OR OTHER APPROVED METHOD TO PROVIDE WATERTIGHT SEWER LINE WITH NEW OR LINED CLEANOUTS WITH WATERTIGHT CONNECTIONS. USE 6-INCH SDR-26 PVC PIPE WITH TRI-BAND COUPLINGS FOR LATERAL REPAIR WORK.

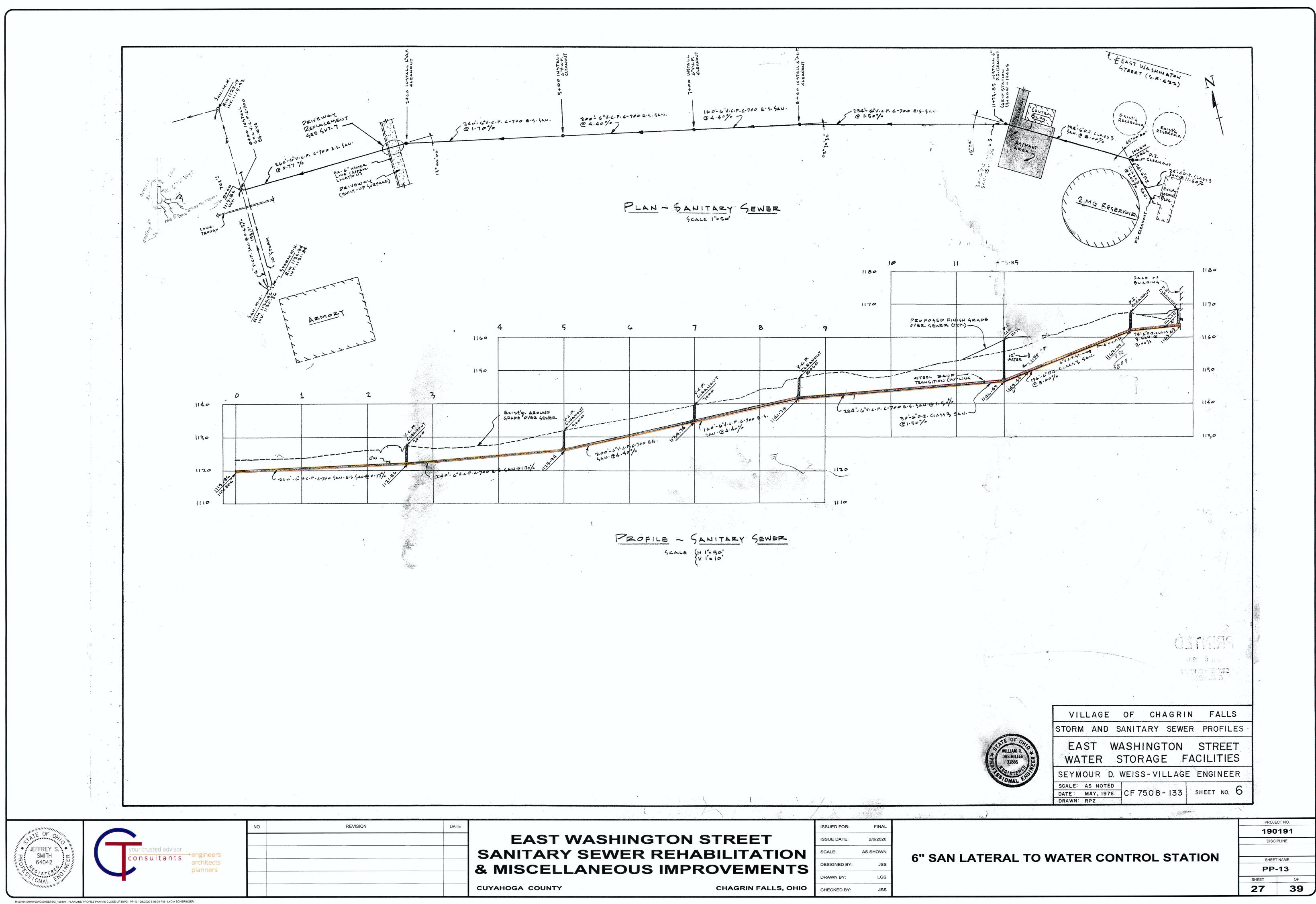
PLAN AND PROFILE OF LATERAL FROM WATER CONTROL STATION TO PANISIS IS ON P. 27. PLANS ARE FROM 1976



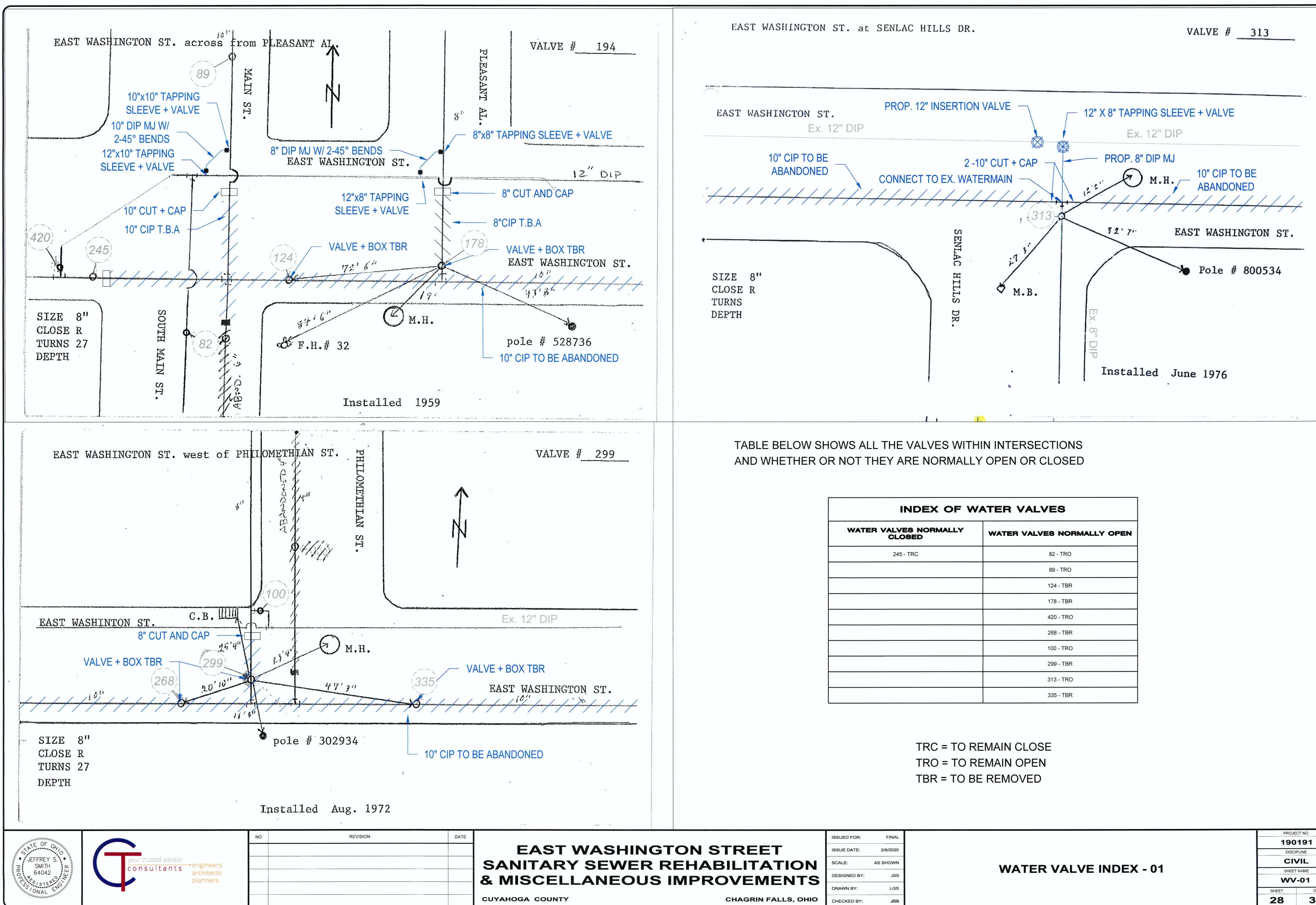
WATER CONTROL STATION

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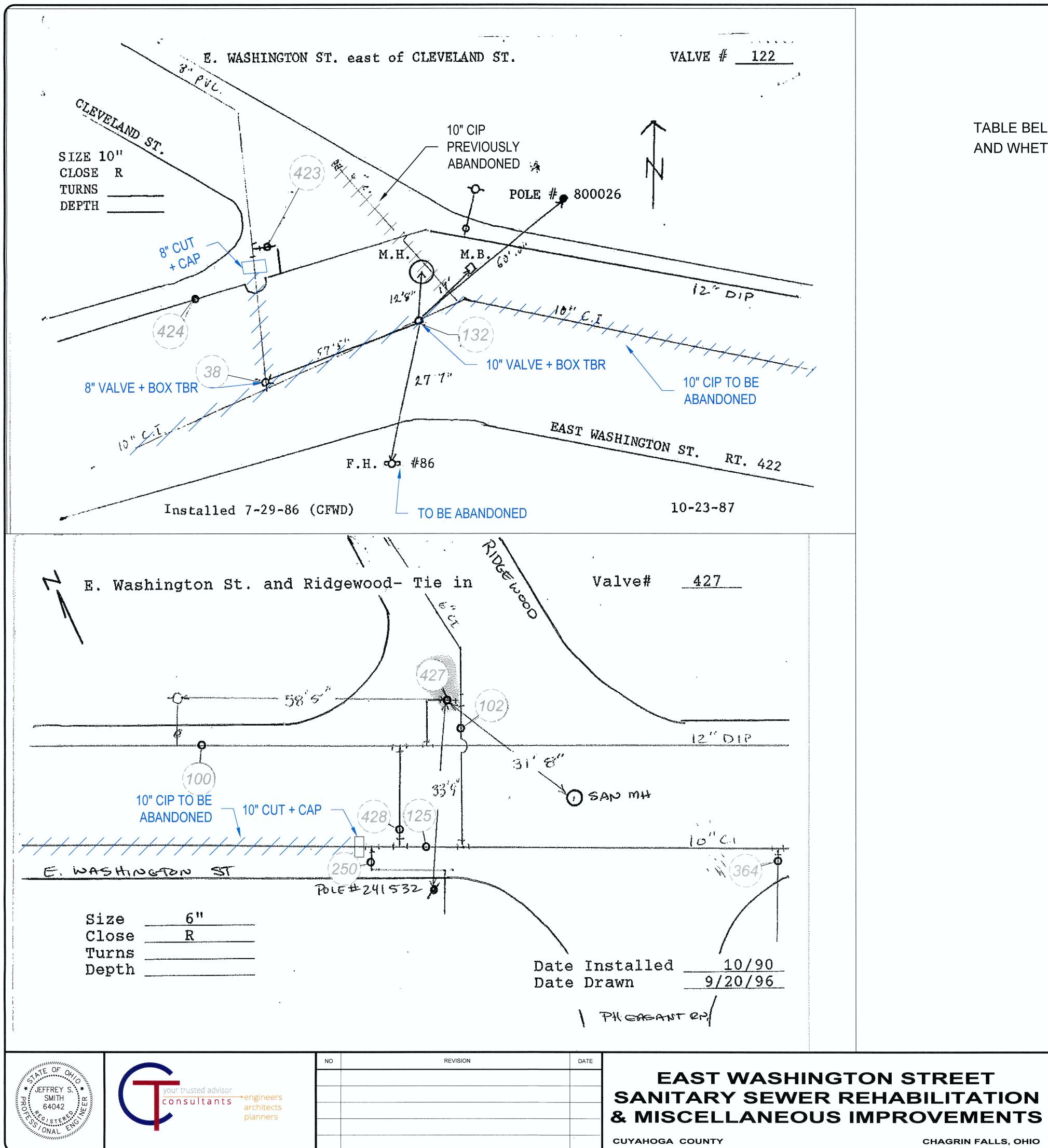
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	& MISCELLANEOUS IMPROVEMEN	TS	DESIGNED BY:	JSS	
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EX OF WATER VALVES		
IORMALLY	WATER VALVES NORMALLY OPEN	
	82 - TRO	
	89 - TRO	
	124 - TBR	
	178 - TBR	
	420 - TRO	
	268 - TBR	
	100 - TRO	
	299 - TBR	
	313 - TRO	
	335 - TBR	

PROJECT NO.		
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CIV		
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TABLE BELOW SHOWS ALL THE VALVES WITHIN INTERSECTIONS AND WHETHER OR NOT THEY ARE NORMALLY OPEN OR CLOSED

INDEX OF WATER VALVES		
WATER VALVES NORMALLY CLOSED	WATER VALVES NORMALLY OPEN	
102 - TRC	428 - TRO	
125 - TRC	427 - TRO	
250 - TRC	424 - TRO	
	423 - TRO	
	364 - TRO	
	250 - TRO	
	132 - TBR	
	100 - TRO	
	38 - TBR	

CHAGRIN FALLS, OHIO

ISSUE DATE:	2/6/2020
SCALE:	AS SHOWN
DESIGNED BY:	JSS
DRAWN BY:	LGS
CHECKED BY:	JSS

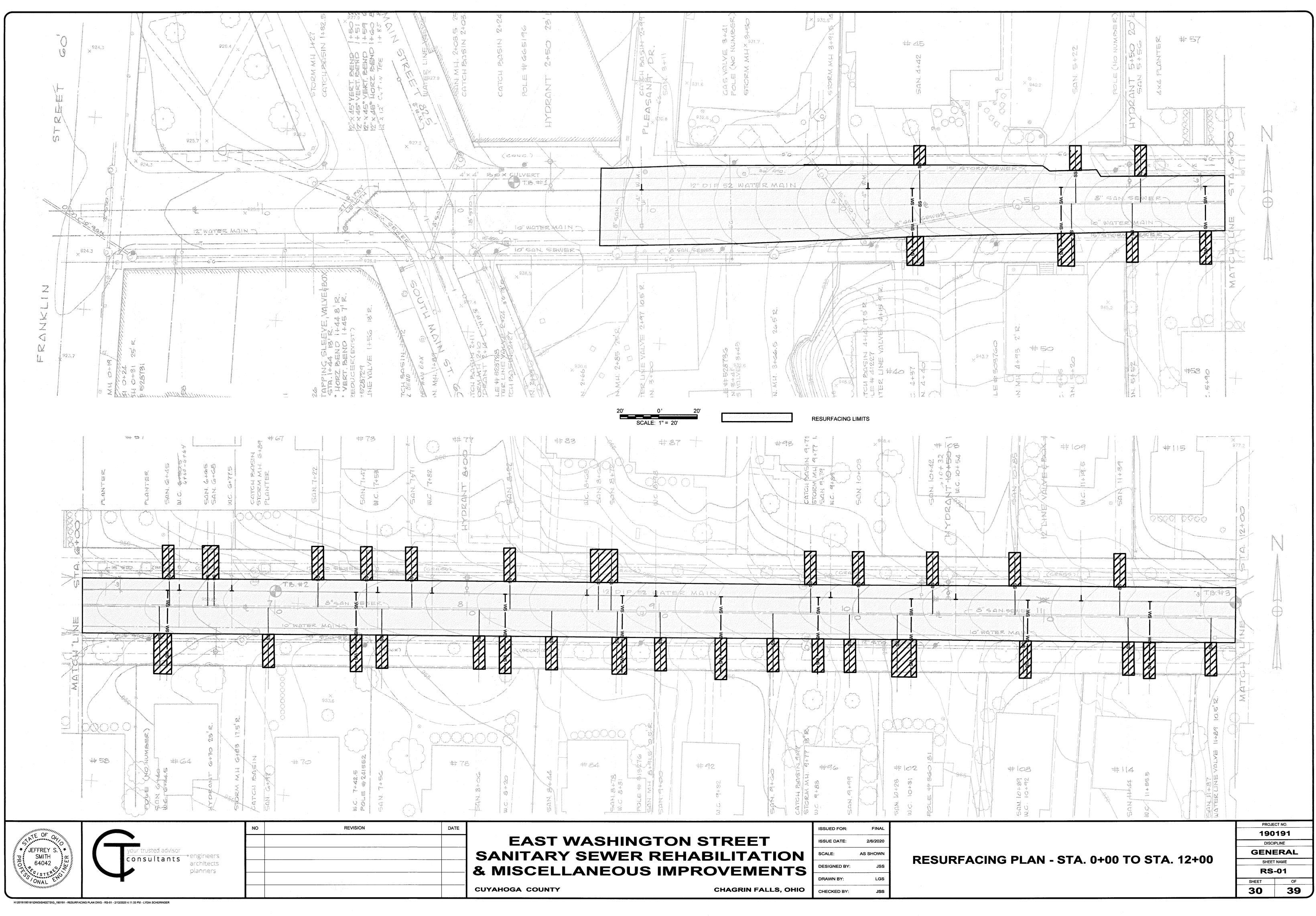
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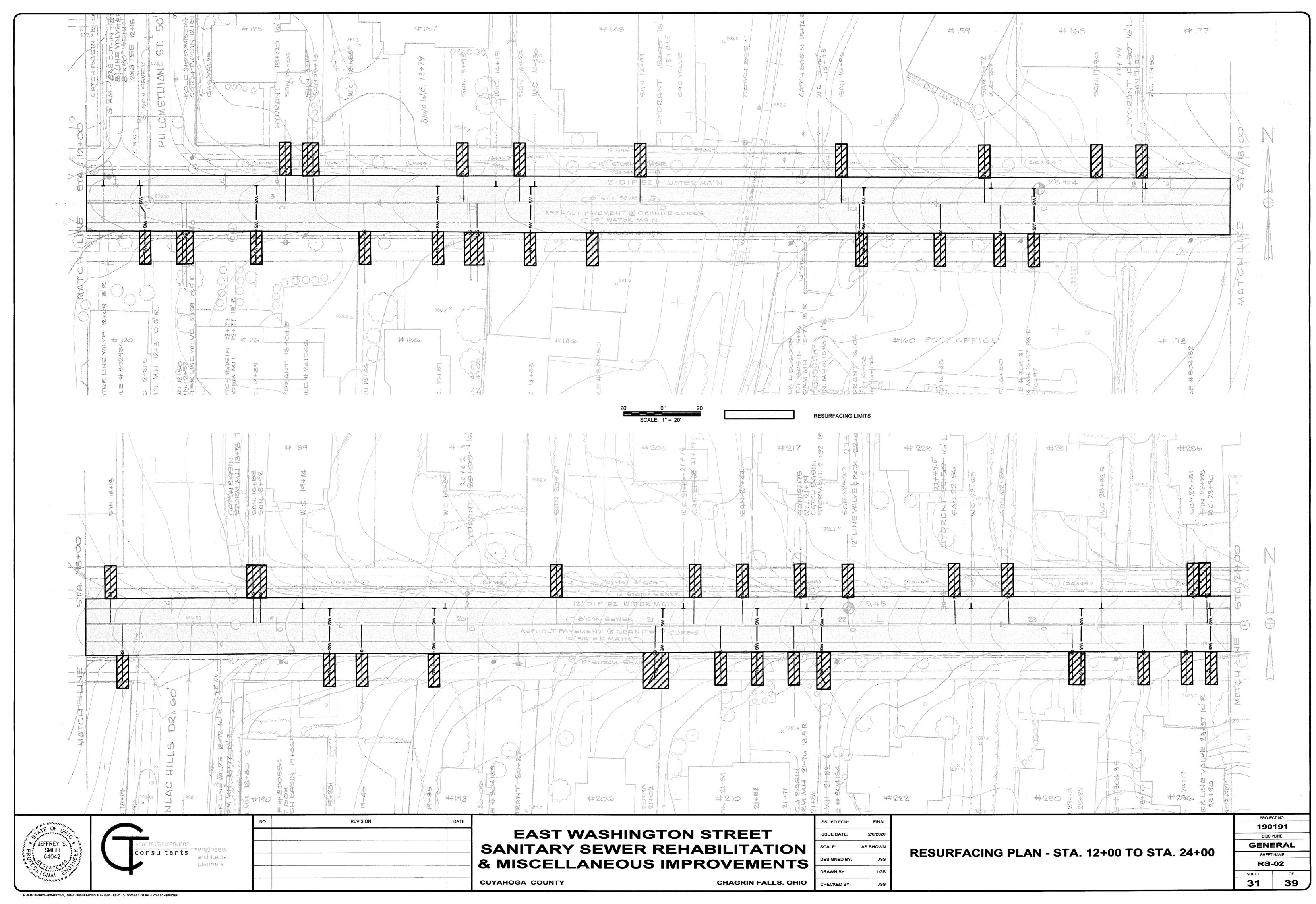
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TRC = TO REMAIN CLOSE TRO = TO REMAIN OPEN TBR = TO BE REMOVED

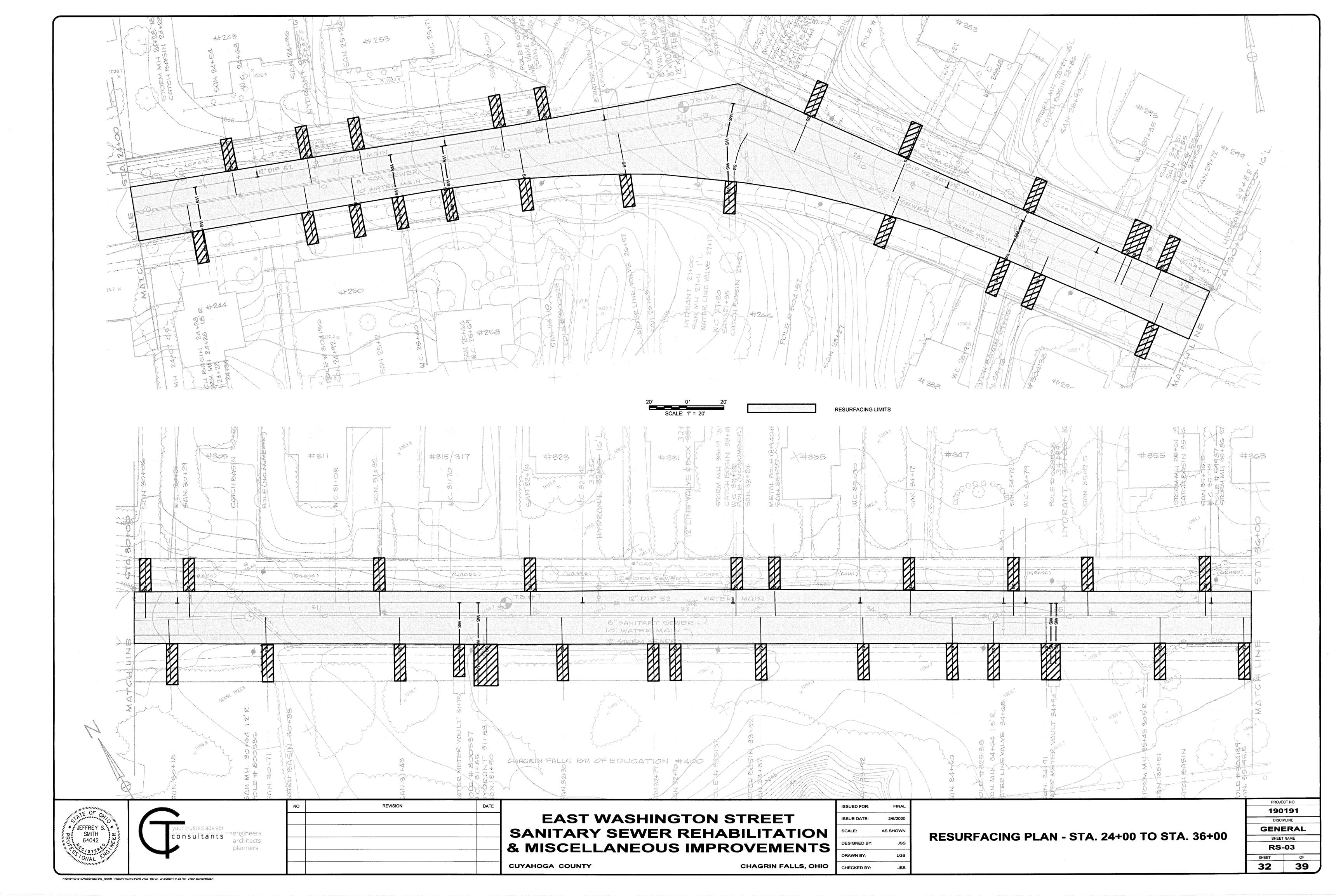
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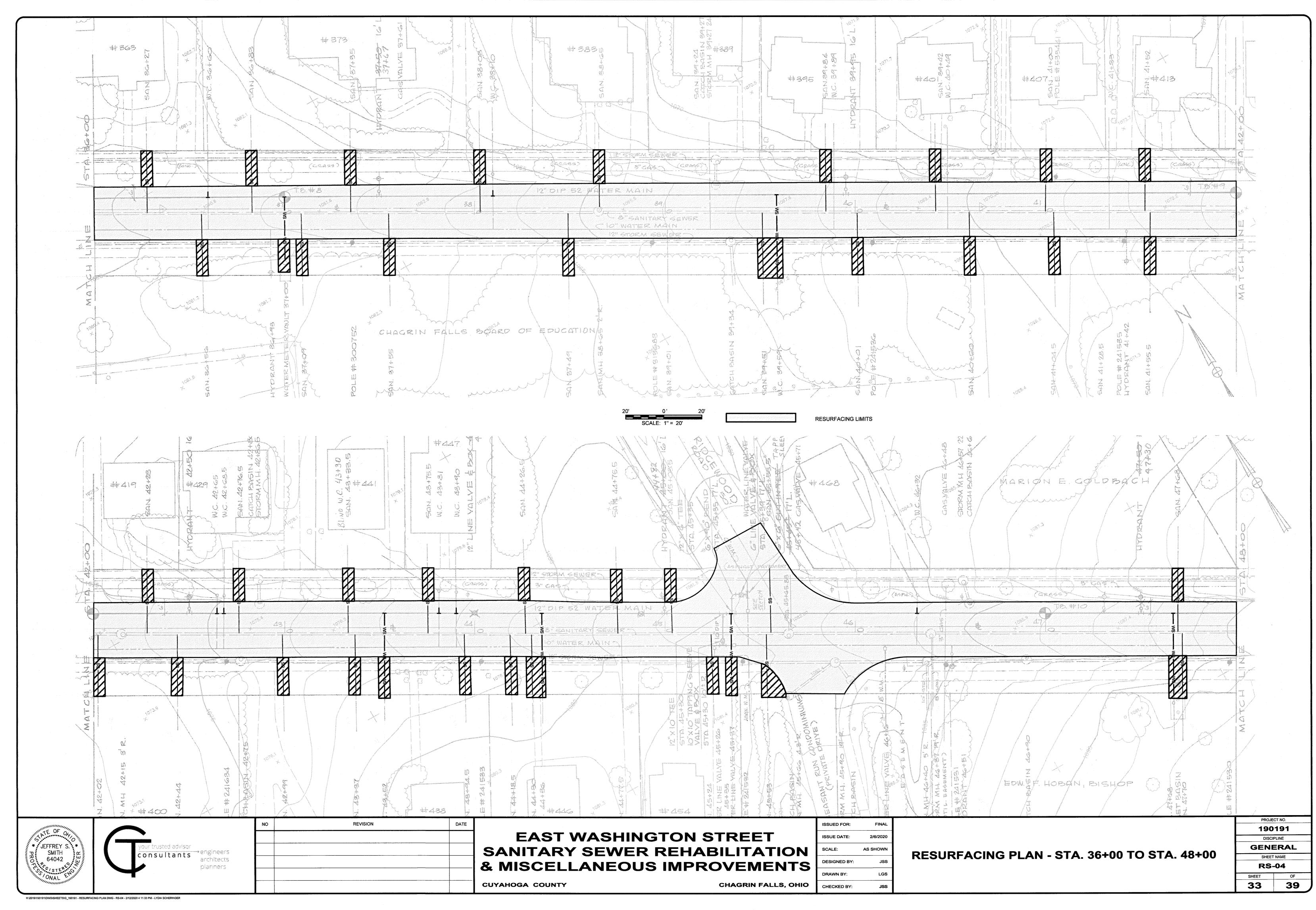
WATER VALVE INDEX - 02



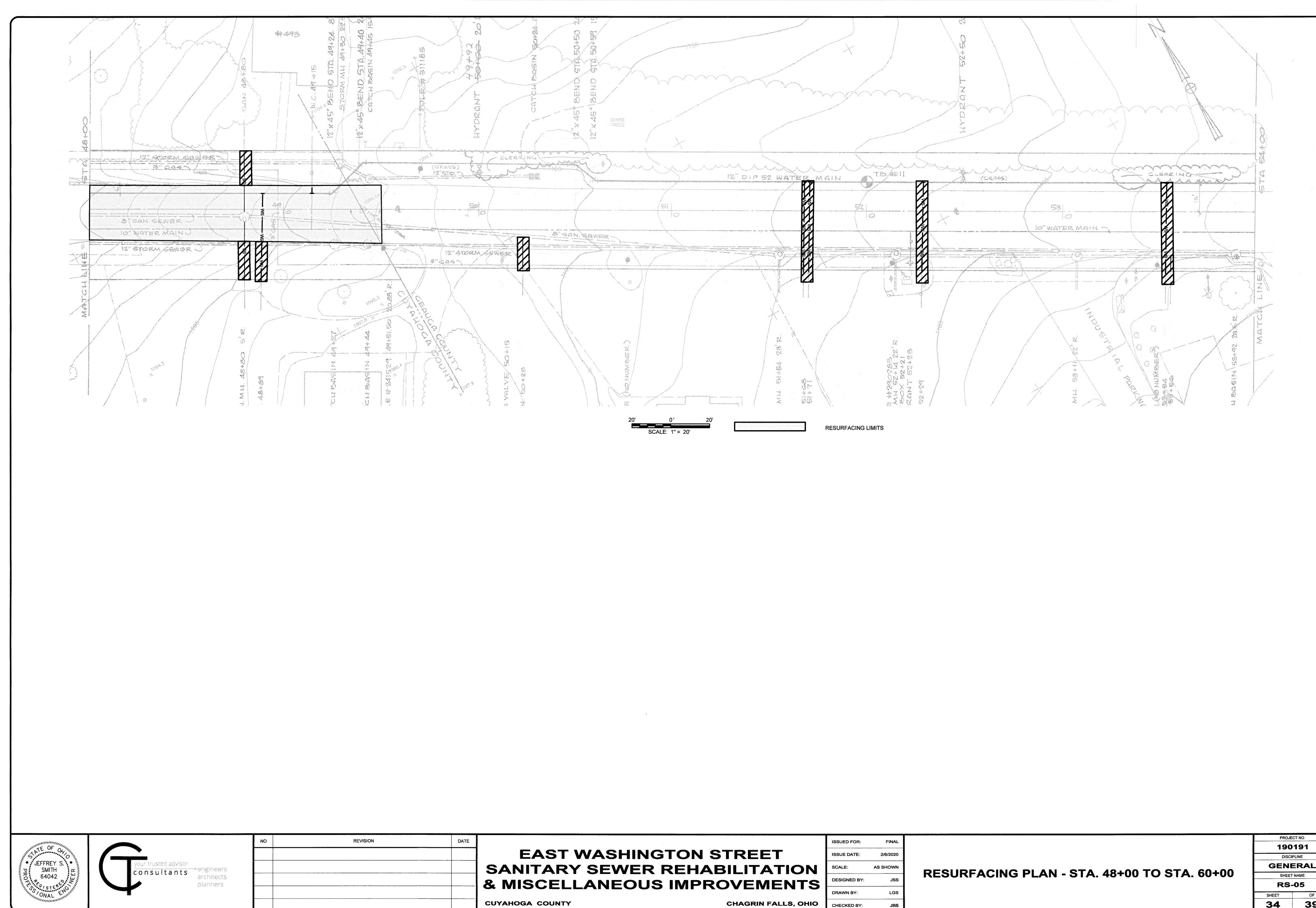


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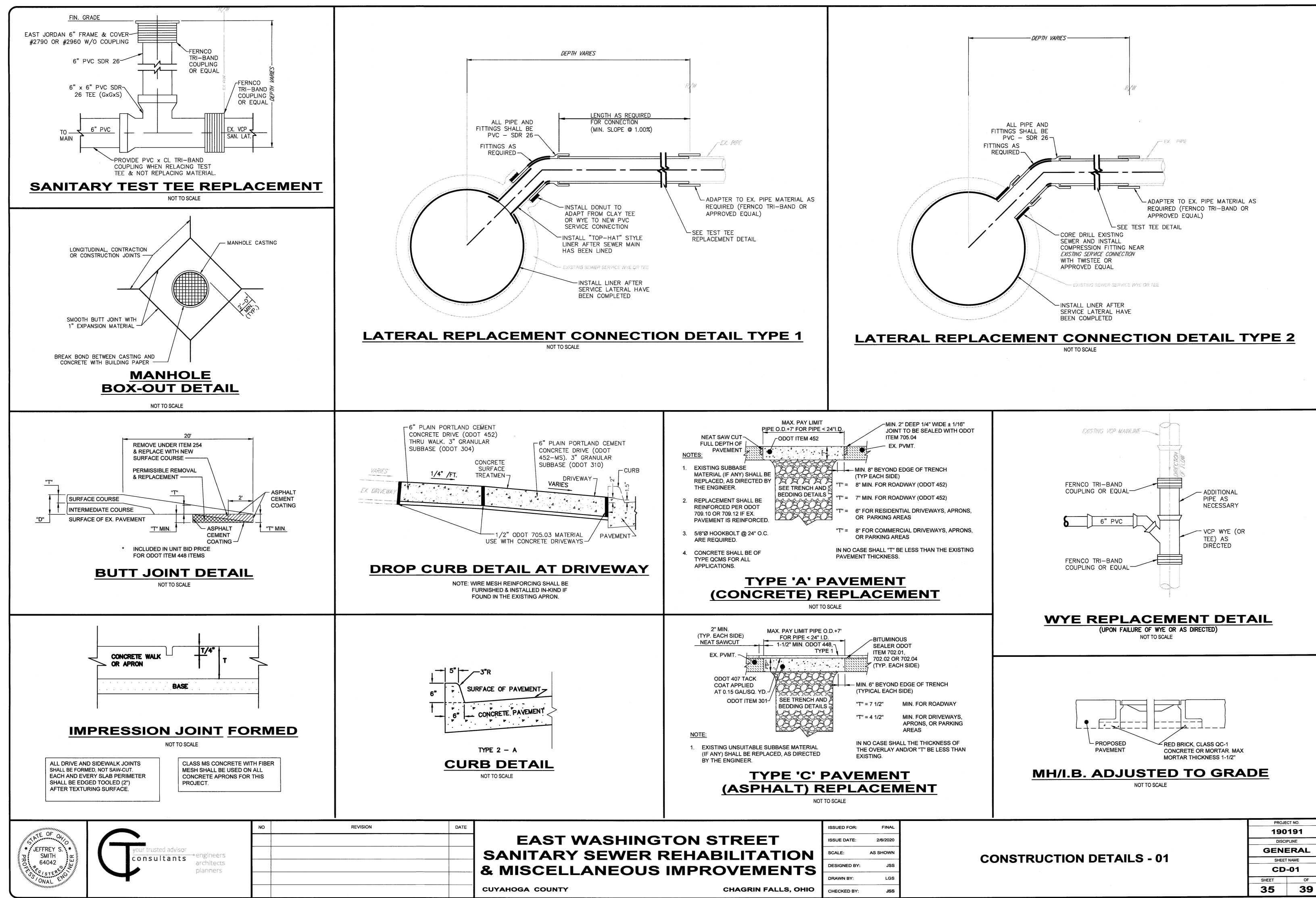
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SCALE:	AS SHOWN
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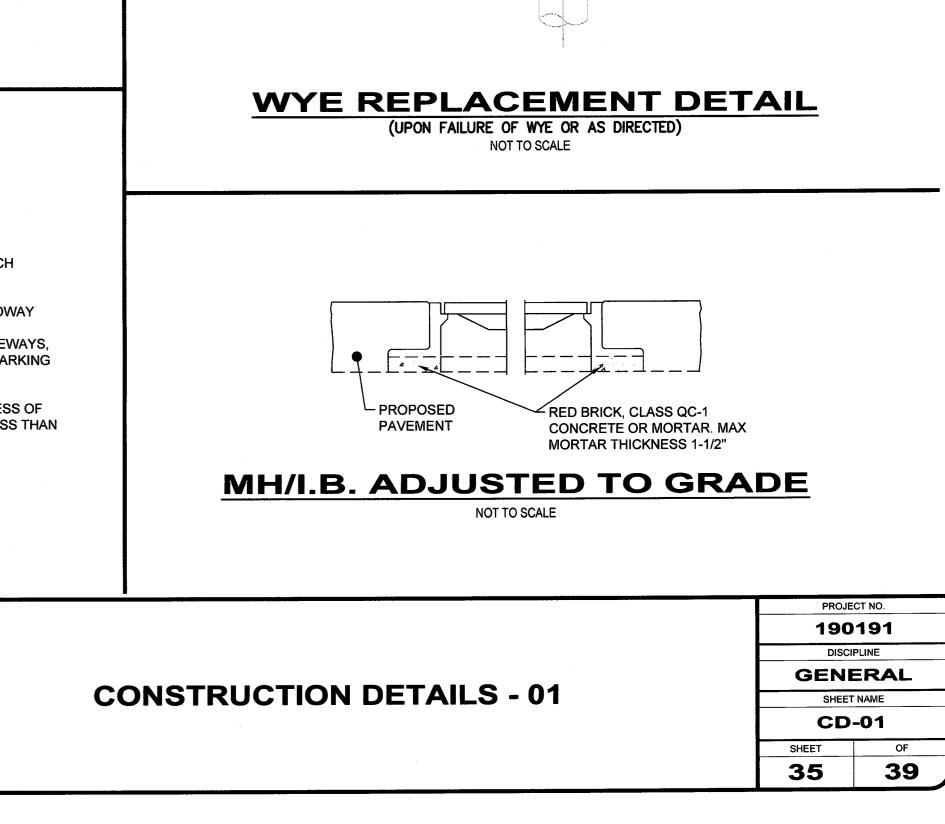
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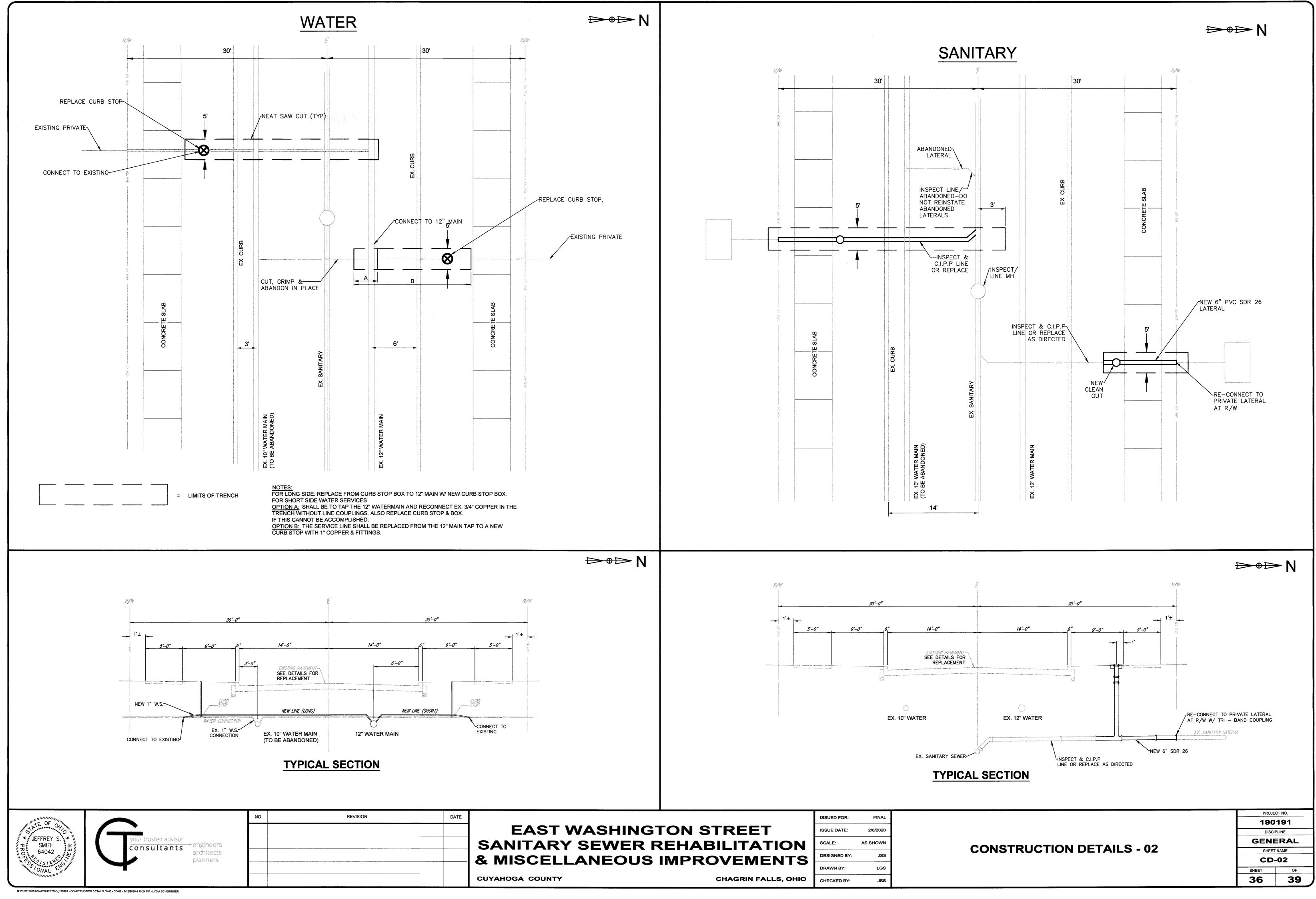
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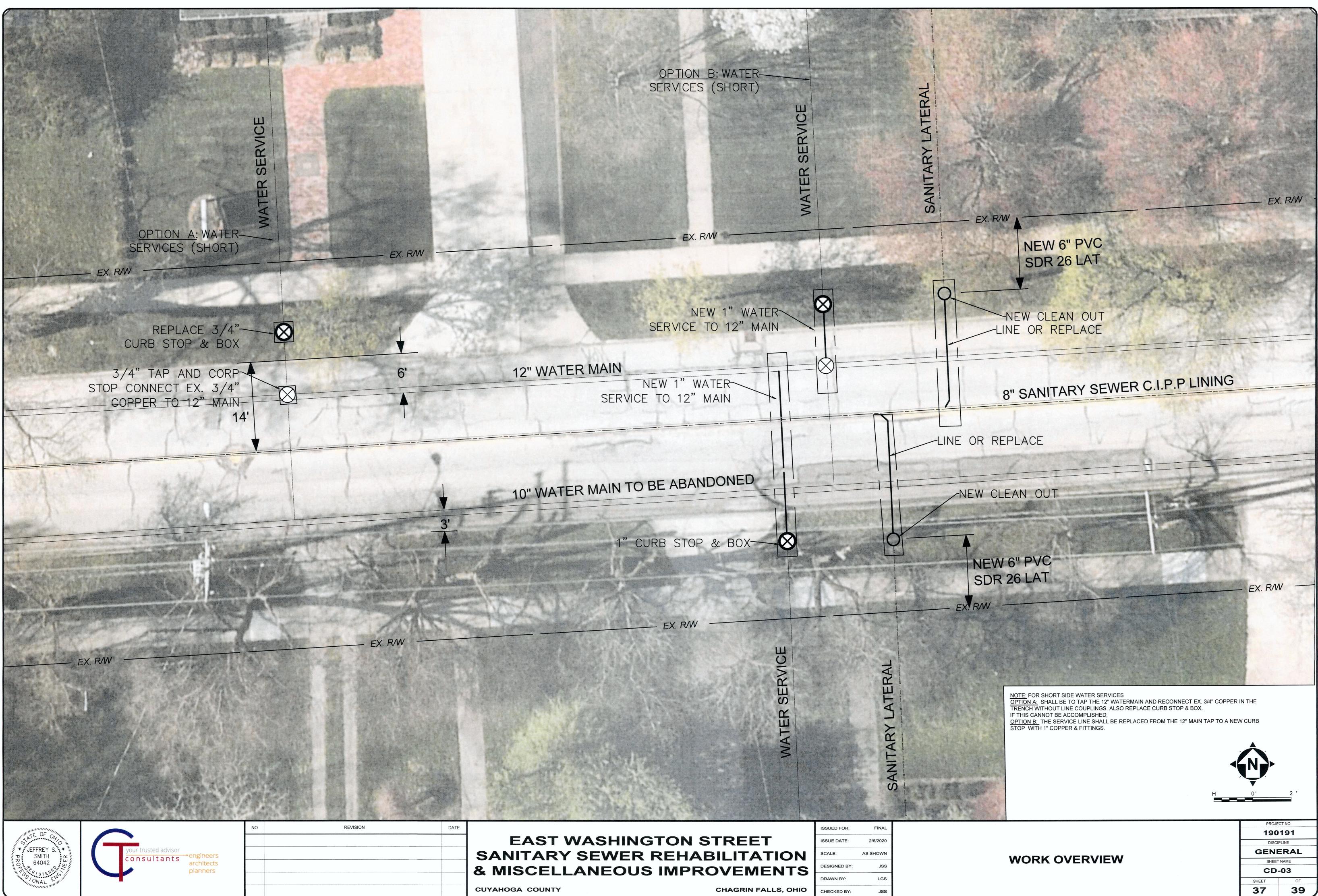
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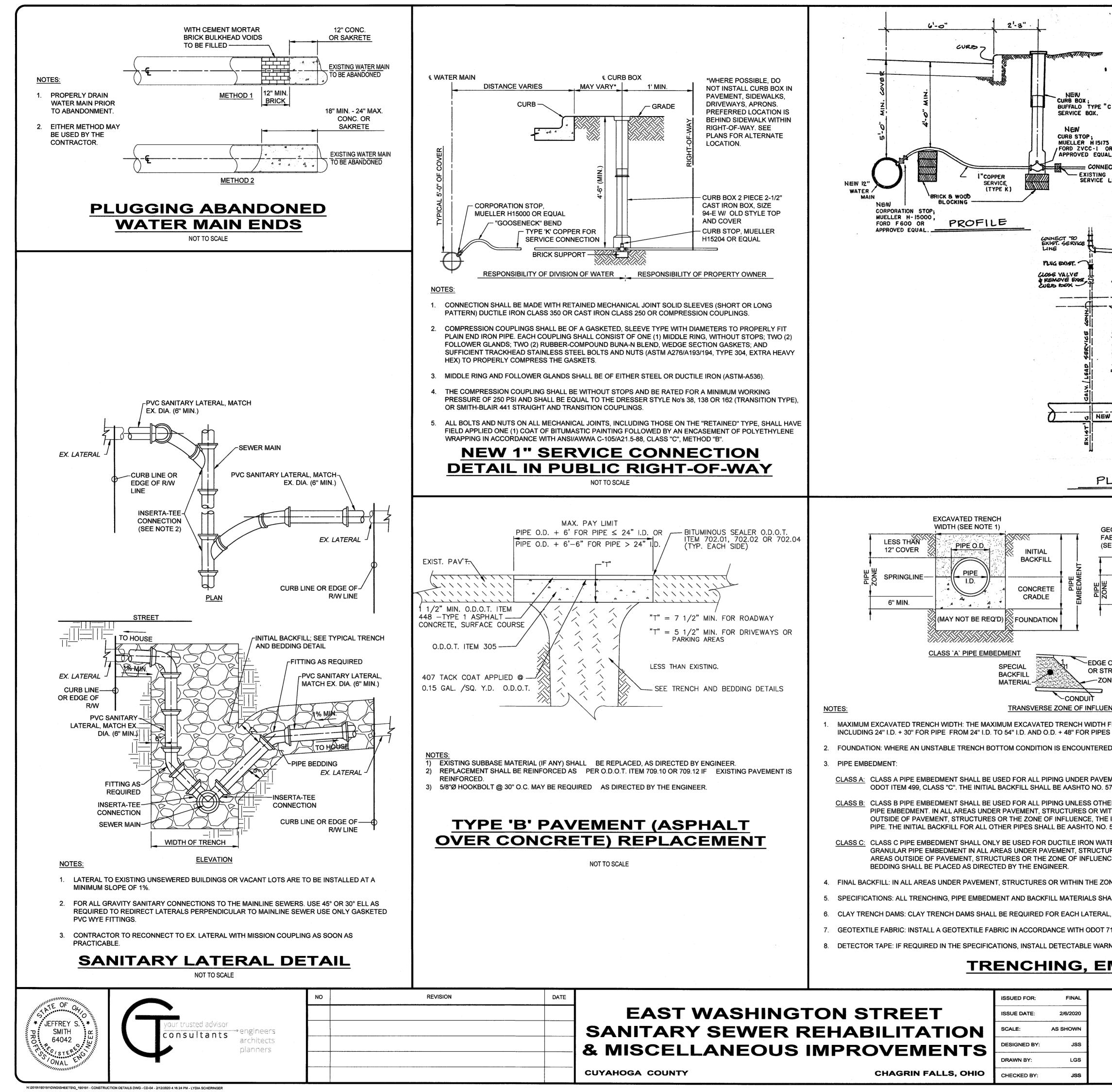


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	- CONCRETE WALK W/ FIBER	
	REINFORCING (ODOT 608) 	
	GRANULAR SUBBASE (ODOT 304)	
"EXTENSION	4' OR AS SHOWN ON PLANS	
2	* WALK WITHIN DRIVE APRON LIMITS SHALL BE THE SAME THICKNESS AS THE DRIVE APRON (6" MIN.)	
от то	AND PAID FOR SEPARATELY.	
OR NEW	- 6" FOR RESIDENTIAL DRIVES	
	CONCRETE WALK DET	AIL
	NOT TO SCALE	
LIEW LAPS		
NEW CURB		
A A		DOT TYPE D
E CURB		GEOTEXTILE
1 The second	JBGRADE COMPACTION	
	ID BACKFILL DETAIL IF	
61-0"	(1) 6" 304 AGGREGATE BASE (3) 1-3/4" ODOT 448, TYPE 2, INTERMEDIAT	E COURSE
	(2) 6" 301 BASE COURSE (4) 1-1/4" ODOT 448, TYPE 1, SURFACE COURSE	
NEW CORPORATION		
<u>NOT</u>	ES:	
12" DIP 52 W.M.1 1.	EXISTING UNSUITABLE SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIR	ECTED BY ENGINEER.
	CONTRACTOR TO MAINTAIN EX. ROAD CROSS-SLOPE. ALL PRE-CONSTRUCTION F AND STRIPING SHALL BE REPLACED IN-KIND.	PAVEMENT MARKINGS
AN	FULL-DEPTH PAVEMENT SE	CTION
	NOT TO SCALE	
EXCAVATED TRENCH WIDTH (SEE NOTE 1)	EXCAVATED TRENCH WIDTH (SEE NOTE 1)	
	FINAL BACKFILL (SEE NOTE 7)	FINAL
12" MIN. COVER	INITIAL INITIAL	BAG
SPRINGLINE PIPE	BACKFILL 12" MIN. COVER PIPE O.D. INITIA	
6" MIN. OR (MAY NOT BE F		165
1/8 PIPE I.D., REQ'D) WHICHEVER	(MAY NOT BE REQ'D)-	
<u>CLASS `B` PIPE EMBEDMEN</u>	CLASS 'C' PIPE EMBEDMENT	
OCTORE		
IE OF INFLUENCE		
<u>NCE</u>	CONDUIT	
ROM THE BOTTOM OF THE TRENCH TO 12	" OVER THE TOP OF THE PIPE (WITHIN PIPE EMBEDMENT) SHALL BE O.D. + 24" FOI	R ALL PIPES UP TO AND
SIZES 60" I.D. AND OVER.		
), THE CONTRACTOR SHALL EXCAVATE TO	A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH MATERIAL AS DIREC	TED BY THE ENGINEER.
IENT OR STRUCTURES WITH LESS THAN 1	2 INCHES OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE	IN ACCORDANCE WITH
7 OR NO. 67 CRUSHED GRANULAR PIPE EN	IBEDMENT.	
HIN THE ZONE OF INFLUENCE, THE INITIAL	RIZED BY THE ENGINEER. THE BEDDING AND HAUNCHING SHALL BE AASHTO NO. 5 L BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 CRUSHED GRANULAR PIPE EMBE	DMENT. IN ALL AREAS
INITIAL BACKFILL SHALL BE SUITABLE ON- 57 OR NO. 67 CRUSHED GRANULAR PIPE E	SITE MATERIAL APPROVED BY THE ENGINEER FOR ONLY REINFORCED CONCRET MBEDMENT.	E PIPE AND DUCTILE IRON
	AS AUTHORIZED BY THE ENGINEER. THE PIPE EMBEDMENT SHALL BE AASHTO NO THE PIPE EMBEDMENT SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY TH	
	RED, A MINIMUM 6-INCHES OF AASHTO NO. 57 OR NO. 67 CRUSHED GRANULAR PI	
NE OF INFLUENCE THE FINAL BACKFILL SH	ALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER OR IMPORTE	D PREMIUM FILL.
ALL BE IN ACCORDANCE WITH SPECIFICAT		
, UPSTREAM OF EVERY MANHOLE, AS SHO	WN ON THE DRAWINGS, AND AS DIRECTED BY THE ENGINEER.	
12.09, TYPE A, AFTER ALL INITIAL BACKFILI	_ CONSISTING OF AASHTO NO. 57 OR NO. 67 CRUSHED GRANULAR PIPE EMBEDME	ENT.
NING TAPE ABOVE UTILITIES, 12" BELOW F	INISHED GRADE, EXCEPT 6 INCHES BELOW SUBGRADE UNDER PAVEMENT AND SL	ABS.
MBEDMENT AND BACKFILL DETAIL		
NOT TO SCALE		
		PROJECT NO.
		190191 DISCIPLINE
CONSTE	DUCTION DETAILS - 04	GENERAL

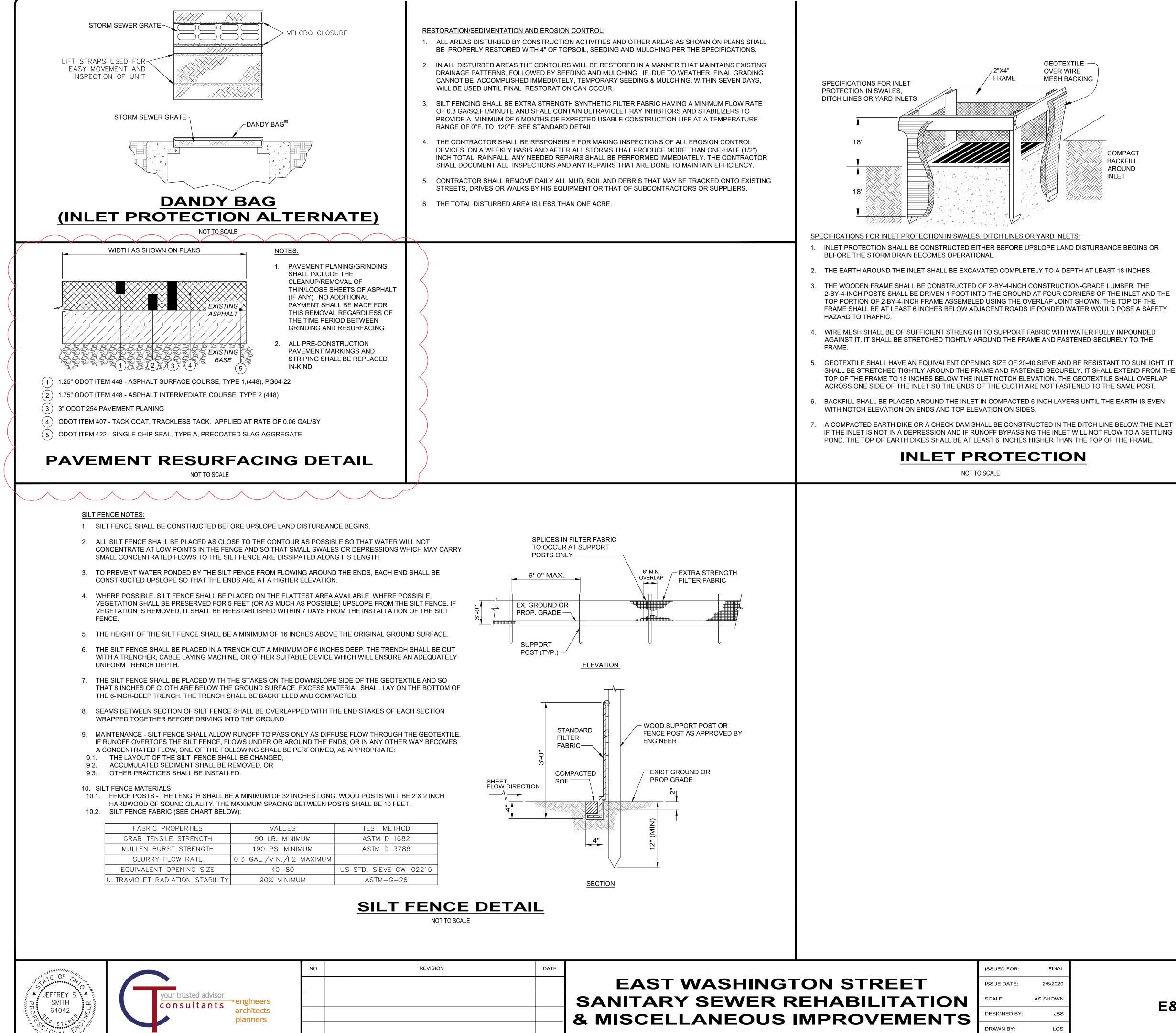
CONSTRUCTION DETAILS - 04

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 CD-04

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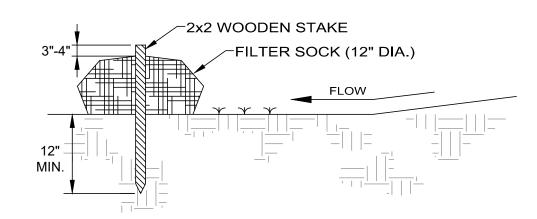
CUYAHOGA COUNTY

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CHAGRIN FALLS, OHIO

CHECKED BY: JS

3		
COMPACT BACKFILL AROUND INLET		
URBANCE BEGINS OR		
T LEAST 18 INCHES.		
RADE LUMBER. THE S OF THE INLET AND THE WN. THE TOP OF THE WOULD POSE A SAFETY		



MATERIALS - COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS

TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2"

INSTALLATION:

- 1. FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES; GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1; ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS
- NEEDED MID-SLOPE. 2. FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR
- ESTABLISHMENT OF PERMANENT VEGETATION. 3. FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.

MAINTENANCE

1. ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.

- 2. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
- 3. WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
- 4. REMOVAL FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.



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	PROJECT NO.		

E&SC NOTES AND DETAILS - 01