

CITY OF CHATTANOOGA, TENNESSEE RIVERVIEW PARK/CGCC CHRONIC SSO ELIMINATION

CONTRACT NO. W-19-015-201

CONSENT DECREE PROGRAM

MAYOR

ANDY BERKE

CITY COUNCIL

DISTRICT 1 - CHIP HENDERSON, CHAIR
DISTRICT 2 - JERRY MITCHELL
DISTRICT 3 - KEN SMITH, VICE - CHAIR
DISTRICT 4 - DARRIN LEDFORD
DISTRICT 5 - RUSSELL GILBERT, SR.
DISTRICT 6 - Dr. CAROL B. BERZ
DISTRICT 7 - ERSKINE OGLESBY, JR.
DISTRICT 8 - ANTHONY BYRD
DISTRICT 9 - DEMETRUS COONROD

DEPARTMENT OF PUBLIC WORKS

WILLIAM C. PAYNE, P.E., ADMINISTRATOR



LOCATION MAP
NTS

PREPARED BY:



10330 HARDIN VALLEY ROAD
SUITE 201
KNOXVILLE, TN 37932 865.690.6419

NOVEMBER 16, 2020

ISSUED FOR CONSTRUCTION



APPROVED FOR RELEASE

 12-11-2020
WILLIAM C. PAYNE, P.E., INTERIM ADMINISTRATOR OF PUBLIC WORKS DATE

GENERAL NOTES

- CONSTRUCTION OF THE SANITARY SEWER SHALL CONFORM TO THE SPECIFICATIONS AND INFORMATION CONTAINED HEREIN.
- THE SURVEY INFORMATION FOR THIS PROJECT WAS PERFORMED BY FIGURA LAND SURVEYING TELEPHONE: (865) 765-7599
- SURVEY HORIZONTAL CONTROL BASED ON NAD83, AND VERTICAL CONTROL IS BASED ON NAVD88. ALL STATIONING AND DISTANCES INDICATED ON THE DRAWINGS ARE BASED ON HORIZONTAL MEASUREMENTS.
- ALL WORK SHALL BE PERFORMED BY A TENNESSEE LICENSED UTILITY CONTRACTOR.
- CITY OF CHATTANOOGA EMERGENCY 24-HOUR CONTACT: (423) 757-5026.
- THE CONTRACTOR SHALL HAVE AN APPROVED SET OF PLANS AND SPECIFICATIONS AND A COPY OF THE GENERAL STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ON THE JOB SITE AT ALL TIMES.
- UTILITIES MAY INCLUDE BURIED WATER, SEWER, GAS, ELECTRIC, CABLE TELEVISION AND TELEPHONE; STREET LIGHTING; OVERHEAD POWER; AND TRAFFIC DETECTOR LOOPS. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL SUCH FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL SUCH FACILITIES THAT ARE DAMAGED DURING CONSTRUCTION. PAYMENT FOR LOCATING, PROTECTING, COORDINATING AND REPAIRING EXISTING FACILITIES WILL BE INCLUDED IN OTHER ITEMS OF WORK AND NO ADDITIONAL COMPENSATION WILL BE MADE. ALL REPAIRS SHALL BE DONE IN ACCORDANCE WITH STANDARDS AND REQUIREMENTS OF THE RESPECTIVE UTILITIES OWNER.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUITABLE SIGNAGE, BARRICADES, AND LIGHTS FOR PROTECTION OF TRAFFIC. ANY EXISTING ROAD SIGNS REMOVED FOR CONSTRUCTION SHALL BE REPLACED BY THE END OF THE WORKING DAY. TEMPORARY STOP SIGNS SHALL BE ERCTED PRIOR TO REMOVAL OF PERMANENT STOP SIGNS.
- THE CONTRACTOR SHALL NOT CLOSE OR BLOCK ANY STREET OR ROADWAY WITHOUT SUBMITTING A TRAFFIC CONTROL PLAN ACCEPTABLE TO THE CITY OF CHATTANOOGA AND/OR TDOT.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO UTILITY COMPANIES FOR MAINTENANCE AND WORK ON THEIR UTILITIES DURING THE COURSE OF WORK.
- SURVEY MONUMENTS DISTURBED BY THE CONTRACTOR SHALL BE RESET. CONTACT CITY OF CHATTANOOGA TO TIE OUT MONUMENT PRIOR TO DISTURBANCE.
- THE CONTRACTOR SHALL VERIFY WORK IN FIELD AND SHALL SATISFY HIMSELF AS TO THE ACCURACY BETWEEN WORK SET FORTH ON THESE PLANS AND THE WORK REQUIRED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF CITY OF CHATTANOOGA.
- THE EXISTING UTILITIES SHOWN AND INDICATED ON THE DRAWINGS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING UNDERGROUND UTILITIES. ALL COSTS ASSOCIATED WITH POTHOLES WILL BE INCLUDED IN OTHER ITEMS OF WORK AND NO ADDITIONAL COMPENSATION WILL BE MADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DISRUPTION OF UTILITY SERVICE DURING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES IN THE PROJECT AREA PRIOR TO BEGINNING CONSTRUCTION. CALL TENNESSEE ONE CALL 1-800-351-1111.
- THE CONTRACTOR SHALL PROVIDE SUPPORT OF EXISTING UTILITIES EXPOSED DURING EXCAVATION TO MAINTAIN SERVICE AND INTEGRITY OF UTILITY.
- THE CONTRACTOR SHALL NEATLY SAW CUT ALL ROADWAYS AND DRIVEWAYS PRIOR TO INSTALLING A PERMANENT PAVEMENT REPAIR. RESTORE CONCRETE DRIVEWAYS, SIDEWALKS, AND CURBS TO THE NEAREST CONTROL JOINT.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES DURING CONSTRUCTION.
- INDICATED SCALES ARE BASED ON FULL SIZE DRAWINGS. SCALES MUST BE ADJUSTED ACCORDINGLY IF DRAWINGS ARE REDUCED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROJECT SITE RESULTING FROM THE CONTRACTOR'S CONSTRUCTION ACTIVITIES.
- TREES THAT HAVE BEEN DAMAGED OR REMOVED, ASPHALT AND OTHER CONSTRUCTION DEBRIS SHALL BE REMOVED OFFSITE BY CONTRACTOR. STOCKPILING OF SUCH WASTE SHALL NOT BE PERMITTED.
- THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO AND THROUGH EXISTING DRAINAGE FACILITIES FROM ALL NEWLY PATCHED DEPRESSIONS.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR WORKING CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- WHEN EXCAVATION MUST OCCUR NEAR A UTILITY POLE, THE CONTRACTOR SHALL EMPLOY A LICENSED ELECTRICAL CONTRACTOR TO GUY, ANCHOR, BRACE, MECHANICALLY HOLD, ETC., THE POLE THROUGHOUT THE EXCAVATION PROCESS AND UNTIL THE EXCAVATED AREA CAN BE PROPERLY BACKFILLED AND COMPACTED TO PREVENT MOVEMENT OF THE POLE. IF THE EXCAVATION AFFECTS AN ANCHOR, THE POLE WILL NEED TO BE STABILIZED IN A SIMILAR MANNER UNTIL THE ANCHOR CAN BE REINSTALLED IN THE EXACT LOCATION. CONTRACTOR SHALL NOTIFY ELECTRIC POWER BOARD NOT LESS THAN SEVEN (7) CALENDAR DAYS PRIOR TO EXCAVATION WITHIN TWENTY (20) FEET OF ANY POLE AND SHALL PROVIDE INFORMATION TO ELECTRIC POWER BOARD PERTAINING TO THE METHOD THAT IS TO BE USED TO STABILIZE THE POLE, AS WELL AS THE NAME OF THE ELECTRICAL CONTRACTOR RESPONSIBLE FOR THE PORTION OF THE WORK.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS.
- THE CONTRACTOR SHALL NOTIFY CITY OF CHATTANOOGA 48 HOURS PRIOR TO CONSTRUCTION.
- LOCATION OF EXISTING RIGHT-OF-WAY (R.O.W.) ARE APPROXIMATE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROJECT SITE.
- CONTRACTOR SHALL RECONNECT ALL ACTIVE SANITARY SEWER SERVICES. INACTIVE SERVICES MAY NOT BE RECONNECTED. RECONNECTION OF ALL SERVICES SHALL BE COORDINATED WITH CITY OF CHATTANOOGA.
- THE CONTRACTOR MUST PERFORM ALL CONSTRUCTION WORK WITHIN EXISTING RIGHT-OF-WAY UNLESS SHOWN OTHERWISE ON PLANS.
- LOCATION OF EXISTING RIGHT-OF-WAY (R.O.W.) LINES AND PROPERTY LINES ARE APPROXIMATE.
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SHALL BE RESTORED TO EQUAL OR BETTER THAN ORIGINAL CONDITION.
- DURING CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE TEMPORARY TRAFFIC CONTROL MEASURES TO ENSURE SAFETY AT ALL TIMES FOR MOTORISTS AND RESIDENTS. THIS INCLUDES THE CGCC, TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED TRAFFIC CONTROL PLAN(S).
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL EXISTING UTILITY SERVICES DURING CONSTRUCTION, WHERE SERVICE INTERRUPTIONS ARE UNAVOIDABLE. COORDINATE WITH THE UTILITY OWNER BEFOREHAND REGARDING THE DURATION OF THE INTERRUPTION AND THE PROPER REINSTALLATION OF SERVICE. MAINTAIN A LIST OF EMERGENCY CONTACTS WITH EACH AFFECTED UTILITY FOR CASES OF ACCIDENTAL UTILITY DAMAGE.
- THE CONTRACTOR SHALL AT ALL TIMES PRACTICE SAFE WORKING TECHNIQUES. THE CONTRACTOR SHALL FOLLOW ALL OSHA REGULATIONS PERTAINING TO CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL PROVIDE EROSION CONTROL DEVICES PER TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC). ALL WORK NEAR AND AROUND WATERWAYS SHALL CONFORM TO THE RULES OF TDEC. VIOLATIONS AND FINES LEVIED BY TDEC DUE TO CONTRACTOR NEGLIGENCE SHALL BE RECOVERED AT THE CONTRACTOR'S EXPENSE. REFER TO EPSC PLAN, SHEETS C4 AND C5.

LEGEND

SYMBOL	DESCRIPTION
	MATCH LINE
	RIGHT-OF-WAY
	EXISTING CONTOUR
	CENTERLINE
	EXISTING SANITARY SEWER
	EXISTING STORM DRAIN PIPE
	EXISTING STORM SEWER
	EXISTING AREA DRAIN OR CATCHBASIN
	SILT FENCE
	PROPOSED INLET PROTECTION
	EXISTING SANITARY SEWER MANHOLE
	REHAB SANITARY SEWER MANHOLE
	COVERED / BURIED MANHOLE
	ABANDON MANHOLE
	SANITARY SEWER REPLACEMENT
	PIPE BURST SANITARY SEWER LINE
	SANITARY SEWER BY-PASS PIPE
	POINT REPAIR
	ABANDON SANITARY SEWER LINE
	CONSTRUCTION COORDINATE
	EXISTING PERMANENT EASEMENT
	PROPOSED PERMANENT EASEMENT
	TEMPORARY CONSTRUCTION EASEMENT
	100-YR FLOOD ELEVATION

GENERAL CONSTRUCTION SEQUENCE

THE FOLLOWING SEQUENCE SUMMARIZES MAJOR ITEMS OF WORK AND IS NOT INTENDED TO BE INCLUSIVE OF ALL TASKS.

PRECONSTRUCTION SEQUENCE:

- PRECONSTRUCTION VIDEO PROJECT AREA.
- ESTABLISH EROSION PREVENTION AND SEDIMENT CONTROL, BARRIER FENCE, AND TEMPORARY CHAIN LINK FENCE.
- SETUP TRAFFIC CONTROL FOR WORK IN HERITAGE LANDING AND CGCC.
- PRE-INSTALLATION CCTV AND CLEANING 15-INCH SEWER.

CONSTRUCTION SEQUENCE - PIPE BURST (STA 0+00 TO STA 7+47.77)

- SET-UP TEMPORARY BYPASS PUMP SYSTEMS FOR 15-INCH AND 42-INCH SEWER LINES.
- MOBILIZE AND SETUP PIPE BURST EQUIPMENT.
- COMMENCE PIPE BURST CONSTRUCTION FROM STA. 0+00 (MH S136I018) TO STA. 7+47.77 (MH S136H417A) AND BURST EXISTING 15-INCH VCP AND INSTALL HDPE DR17 PIPE.
- CONNECT HDPE PIPE TO EXISTING MANHOLE, STA 0+00 (MH S136I018).
- TEST AT THE COMPLETION OF INSTALLATION AND ACTIVATE SEWER.
- DEMOLIBLIZE PIPE BURST SETUP.
- DISMANTLE AND DEMOBILIZE BYPASS PUMP SYSTEM FOR 42-INCH SEWER.
- RESTORE SITE.

CONSTRUCTION SEQUENCE - OPEN CUT REPLACEMENT

- STRIP TOPSOIL & STOCKPILE FOR LATER USE.
- CONTINUE BYPASS SETUP FROM MH S136G025 TO MH S136J025.
- COMMENCE OPEN CUT REPLACEMENT FROM STA. 7+47.77 (MH S136H417A) TO STA. 13+29.41 (MH S136C027).
- TEST AT THE COMPLETION OF INSTALLATION AND ACTIVATE SEWER.
- RELOCATE BYPASS PUMP SETUP TO MH S136H103; CONNECT PIPE DISCHARGE TO MH S136C027.
- RESTORE SITE.
- COMMENCE OPEN CUT REPLACEMENT FROM STA. 13+29.41 (MH S136G027) TO STA. 25+62.41 (MH S136A163).
- TEST AT THE COMPLETION OF INSTALLATION AND ACTIVATE SEWER.
- DISMANTLE AND DEMOBILIZE BYPASS PUMP SYSTEM.
- RESTORE SITE.

UTILITY OWNERS

TENNESSEE-AMERICAN WATER CO. 109 WIEHL ST. CHATTANOOGA, TN 37403 PHONE: (423) 755-7600	CHATTANOOGA GAS COMPANY 6125 PRESERVATION DRIVE CHATTANOOGA, TN 37416 PHONE: (423) 892-6120	ELECTRIC POWER BOARD ENGINEERING DIVISION P.O. BOX 182255 CHATTANOOGA, TN 37422-7255 PHONE: (423) 629-3495
CITY OF CHATTANOOGA DEPARTMENT OF PUBLIC WORKS WATER QUALITY PROGRAM 1250 MARKET STREET, SUITE 2100 CHATTANOOGA, TN 37402 PHONE: (423) 643-5877	CITY OF CHATTANOOGA TRAFFIC ENGINEERING ADMINISTRATION 1250 MARKET STREET, SUITE 3030 CHATTANOOGA, TN 37402 PHONE: (423) 643-5950	CITY OF CHATTANOOGA WASTE RESOURCES DIVISION 455 MOCCASIN BEND ROAD CHATTANOOGA, TN 37405 PHONE: (423) 757-5026
COMCAST CABLE TELEVISION CO. 2030 EAST POLYMER DRIVE CHATTANOOGA, TN 37421 PHONE: (423) 855-3900 PHONE: (423) 855-4300	HIXSON UTILITY DISTRICT 5201 HIXSON PIKE HIXSON, TN 37343 PHONE: (423) 877-3513	

SPECIAL CONSTRUCTION NOTES - CHATTANOOGA GOLF AND COUNTRY CLUB (CGCC)

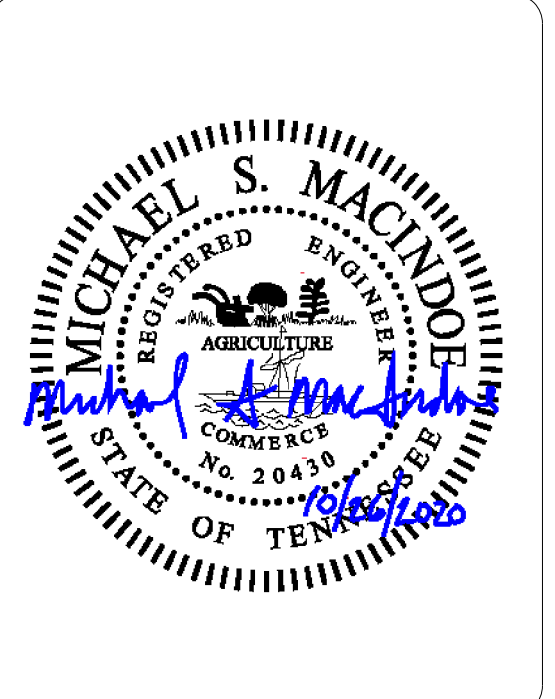
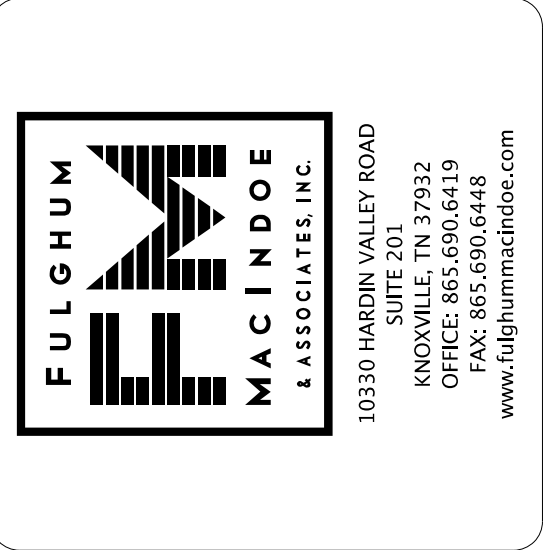
- CONSTRUCTION WORK ACROSS THE CGCC SHALL BE CLOSELY COORDINATED WITH THE CGCC COURSE MANAGER.
- INSTALL 4-FT HIGH ORANGE, PLASTIC CONSTRUCTION BARRIER FENCE AND SILT FENCE TO DEFINE THE BOUNDARIES OF THE CONSTRUCTION CORRIDOR. ALL WORK ASSOCIATED WITH THE PIPE BURST OPERATION AND OPEN CUT REPLACEMENT SHALL BE CONDUCTED WITHIN THE CORRIDOR. DAMAGE TO TURF OUTSIDE THE CORRIDOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- REMOVE AND STOCKPILE THE TOPSOIL FROM THE CONSTRUCTION CORRIDOR. TOPSOIL WILL BE REUSED FOR RESTORATION.
- THE PROPOSED SEWER WILL CROSS THE EXISTING WATER SUPPLY TO GREEN NO. 5 AND THE EXISTING IRRIGATION SYSTEM AT SEVERAL LOCATIONS. POT HOLE TO DETERMINE THE LOCATION OF ALL CROSSINGS. SUPPORT THE PIPE WHEN EXPOSED IN THE OPEN TRENCH.
- THE PROPOSED SEWER WILL CROSS HYDRAULIC TUBING. POT HOLE, EXPOSE AND SUPPORT THE TUBING WHEN EXPOSED IN THE TRENCH. POT HOLE THE IRRIGATION PIPING AND HYDRAULIC TUBING MAY NECESSITATE HAND DIGGING.
- THE CGCC WILL REMOVE IRRIGATION SPRINKLER HEADS LOCATED WITHIN THE CONSTRUCTION CORRIDOR PRIOR TO CONSTRUCTION.
- BEFORE PLACING STOCKPILED TOPSOIL, THOROUGHLY CLEAN BY REMOVING ALL CLUMPS, ROCKS, DEBRIS, ETC. THAT MAY HAVE ACCUMULATED DURING CONSTRUCTION.
- FINAL GRADE SHALL MATCH PRECONSTRUCTION GRADE AND THE TURF CUT LINES ALONG THE CONSTRUCTION CORRIDOR. FINAL GRADE SHALL BE TO THE SATISFACTION OF THE CGCC.
- COORDINATE PURCHASE AND INSTALLATION OF NEW SOD WITH CGCC AND THEIR DESIGNATED SOD SUPPLIER AND SOD INSTALLER. COST FOR MATERIAL AND INSTALLATION SHALL BE COVERED BY THE SOD ALLOWANCE.

SPECIAL CONSTRUCTION NOTES - HERITAGE LANDING

- CONTRACTOR SHALL INSTALL 6-FT TEMPORARY HIGH CHAIN LINK FENCING AROUND LAYDOWN, STAGING AND CONSTRUCTION AREAS.
- CONTRACTOR SHALL PROTECT LANDSCAPE AREAS AND VEGETATION BY INSTALLING 4-FT HIGH ORANGE, PLASTIC CONSTRUCTION BARRIER FENCE.
- ACCESS INTO HERITAGE LANDING WILL REQUIRE A TEMPORARY PERMIT. PERMITS ARE AVAILABLE AT THE ONSITE OFFICE. PERMITS SHALL BE CLEARLY VISIBLE AT ALL TIMES DURING CONSTRUCTION.
- SITE RESTORATION SHALL BE TO THE SATISFACTION OF HERITAGE LANDING HOA.

DRAWING INDEX

SHEET NO.	TITLE
G1	COVER SHEET
G2	GENERAL NOTES, LEGEND, DRAWING INDEX, CONSTRUCTION SEQUENCE & UTILITY OWNERS
G3	SHEET LAYOUT & SITE PICTURES
G4	GENERAL NOTES
G5	GENERAL NOTES
G6	EASEMENTS AND CONSTRUCTION LAYDOWN AREA
G7	BYPASS PUMPING PLAN 42-INCH INTERCEPTOR AND 15-INCH SEWER LINE
G8	STANDARD DETAILS
G9	STANDARD DETAILS
G10	STANDARD DETAILS
G11	EROSION CONTROL DETAILS
C1	PLAN AND PROFILE STATION 0+00 - STATION 12+50
C2	PLAN AND PROFILE STATION 12+50 - STATION 25+00
C3	PLAN AND PROFILE STATION 25+00 - STATION 25+62.40 E.O.L.
C4	EROSION PREVENTION AND SEDIMENT CONTROL PLANS
C5	EROSION PREVENTION AND SEDIMENT CONTROL PLANS



RIVERVIEW PARK/CGCC
CHRONIC SSO ELIMINATION
CITY OF CHATTANOOGA, TN
CONSENT DECREE PROGRAM

REV	DATE	REVISION DESCRIPTION
REV1	10/26/2020	ISSUED FOR CONSTRUCTION
REV0	08/03/20	ISSUED FOR 90% REVIEW

THIS LINE IS ONE INCH LONG WHEN PLOTTED FULL SCALE

THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.

PROJECT NO: 649.001

DATE: 10/26/2020

DISC. LEAD: MSM DESIGNER: TAC CHECKER: SEE

SHEET TITLE: CIVIL

GENERAL NOTES, LEGEND, DRAWING INDEX, CONSTRUCTION SEQUENCE & UTILITY OWNERS

SHEET: G2

PLOT DATE: 10/26/2020
 BY: TAC
 LAST SAVED: 10/23/2020
 CREATED: 2/1/2020

CREATED: 2/1/2020
 LAST SAVED: 10/23/2020
 BY: TAC
 PLOT DATE: 10/26/2020



IMAGE #2331



IMAGE #2334



IMAGE #2340



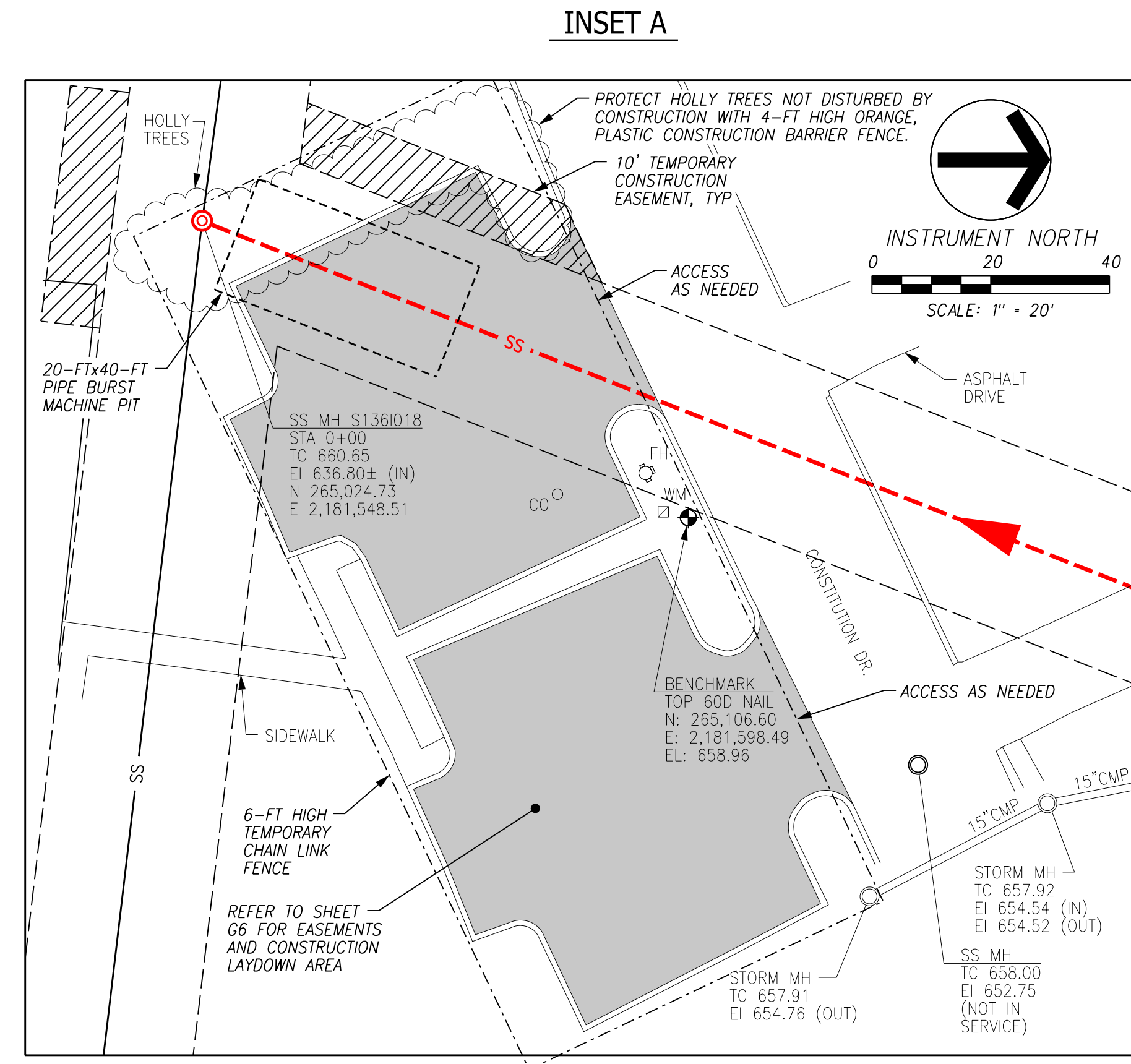
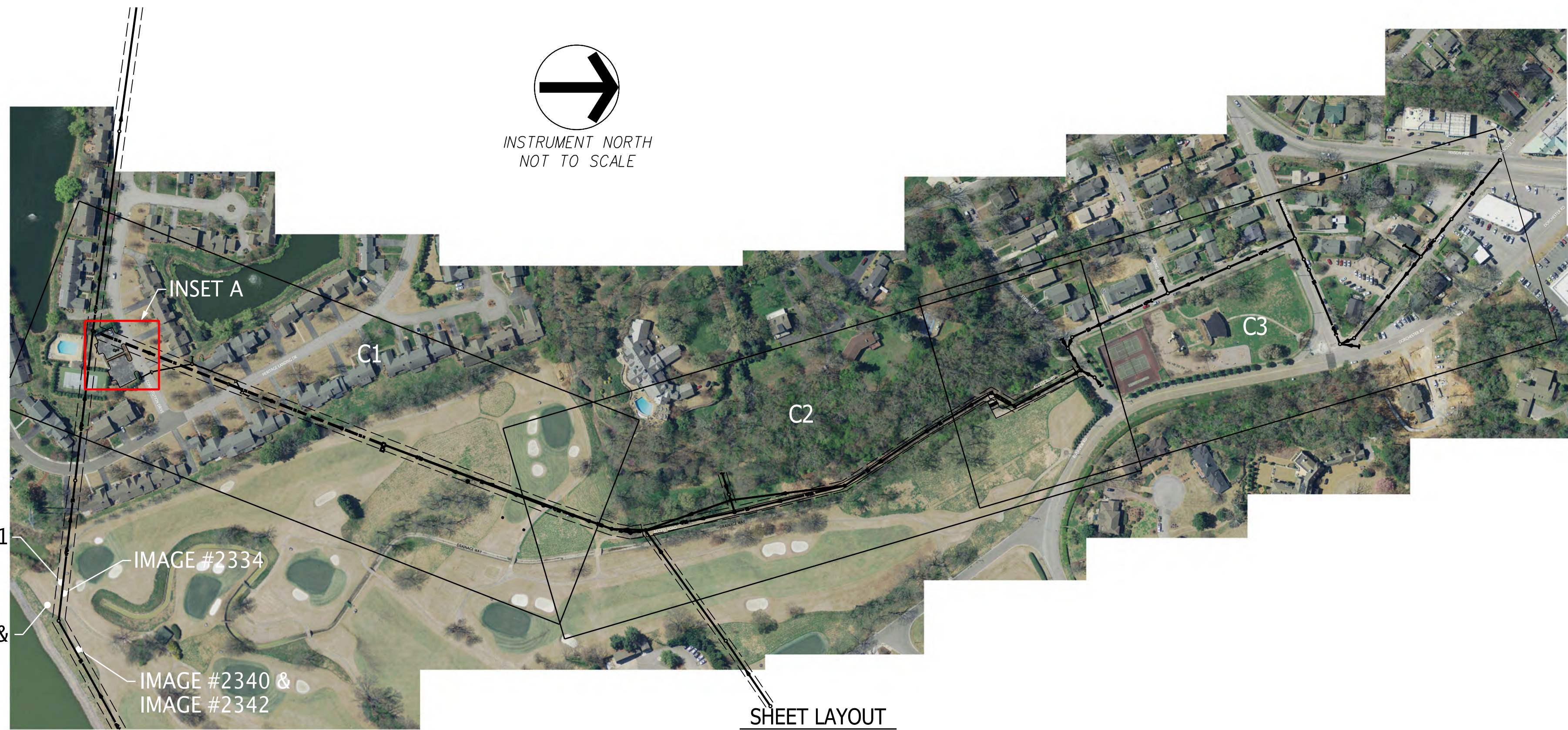
IMAGE #2342



IMAGE #2345



IMAGE #2346

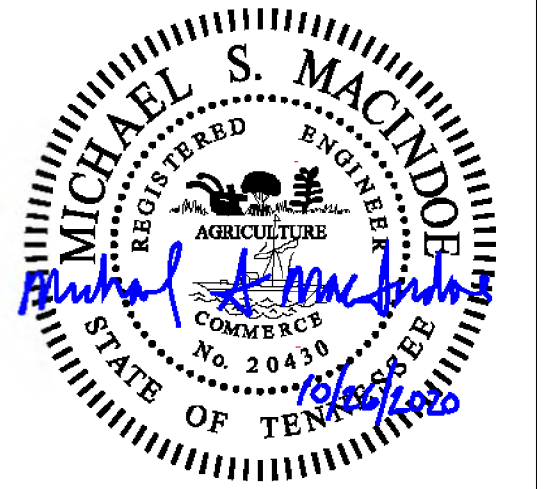
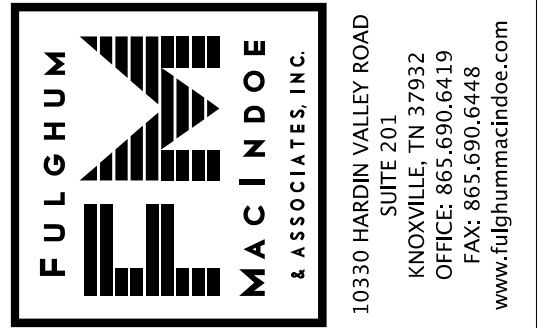


CONSTRUCTION NOTES

1. INSTALL 6-FT HIGH TEMPORARY CHAIN LINK FENCE AROUND PARKING AREA AND MACHINE PIT PRIOR TO CONSTRUCTION
2. CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.
3. OVERLAY EXISTING ASPHALT PARKING AFTER EQUIPMENT AND MATERIALS ARE REMOVED FROM SITE. ASPHALT PROFILE SHALL MATCH EXISTING OR MINIMUM OF 2" THICKNESS, WHICHEVER IS GREATER. RESTRIPING OF PARKING SPACES SHALL MATCH EXISTING. REFER TO SPECIFICATION 310100.

LEGEND

ASPHALT PARKING AREA



RIVERVIEW PARK/CGCC
 CHRONIC SSO ELIMINATION
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REV1	10/26/20	ISSUED FOR CONSTRUCTION
REV0	08/03/20	ISSUED FOR 90% REVIEW

THIS LINE IS ONE INCH LONG WHEN PLOTTED FULL SCALE
 THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.

PROJECT NO: 649.001
 DATE: 10/26/2020
 DISC. LEAD: MSM
 DESIGNER: TAC
 CHECKER: SEE

SHEET TITLE CIVIL

SHEET LAYOUT & SITE PICTURES

SHEET G3

GENERAL NOTES

GRADING AND EXCAVATION

1. FINISHED GRADES ON PROFILES ARE THE SAME AS FINISHED GRADES SHOWN ON TYPICAL SECTIONS AND ON CROSS SECTIONS.
2. WHEN SPECIFIED GRADING REQUIREMENTS ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL GRADE TO DRAIN ALL AREAS WITHIN THE LIMITS OF CONSTRUCTION, OR OTHERWISE DISTURBED BY CONSTRUCTION, AND ALSO TO MATCH THE EXISTING, ADJACENT GROUND.
3. THE CONTRACTOR SHALL PERFORM ALL NECESSARY STRIPPING OF EXISTING TOPSOIL ON THE JOBSITE.
4. ON THE PROJECT, NEWLY GRADED, EARTH AREAS NOT TO BE PAVED, RIP-RAPPED, OR STABILIZED, SHALL BE SEEDED IN ACCORDANCE WITH THE CITY OR COUNTY SPECIFICATIONS. PRIOR TO SEEDING, A FOUR-INCH (4") LAYER OF TOPSOIL SHALL BE PLACED ON THESE AREAS IN ACCORDANCE WITH SAID SPECIFICATIONS. ALL EXISTING ROADS OR RAMPS TO BE ABANDONED WITHIN THE RIGHT-OF-WAY SHALL BE SCARIFIED AND OBLITERATED, THEN HAVE TOPSOIL AND SEED ADDED.
5. THE CONTRACTOR IS TO DISPOSE OF, AT HIS OWN EXPENSE, ALL UNSUITABLE AND/OR SURPLUS, EXCAVATED MATERIAL AS DIRECTED BY THE ENGINEER. ALL SUITABLE, EXCAVATED MATERIAL SHALL BE USED AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE SECTIONS OF EXISTING CURB, OR CURB AND GUTTER, THAT ARE RENDERED OBSOLETE.
7. EXCAVATION ADJACENT TO EXISTING PAVEMENT SHALL BE MADE TO A NEAT LINE.

EROSION/POLLUTION CONTROL

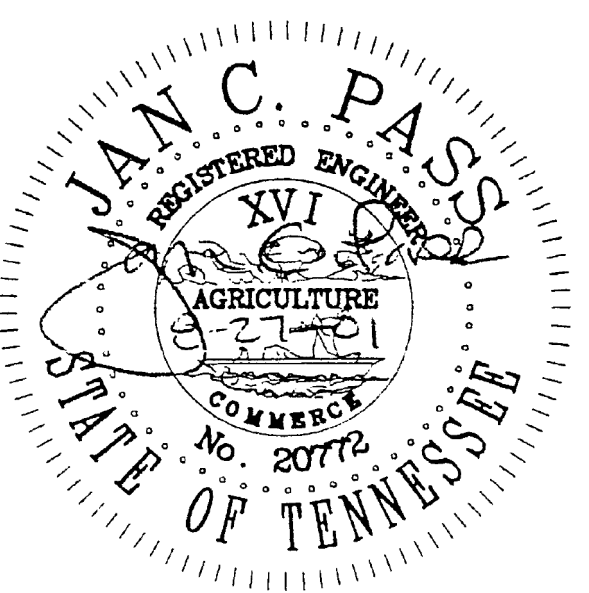
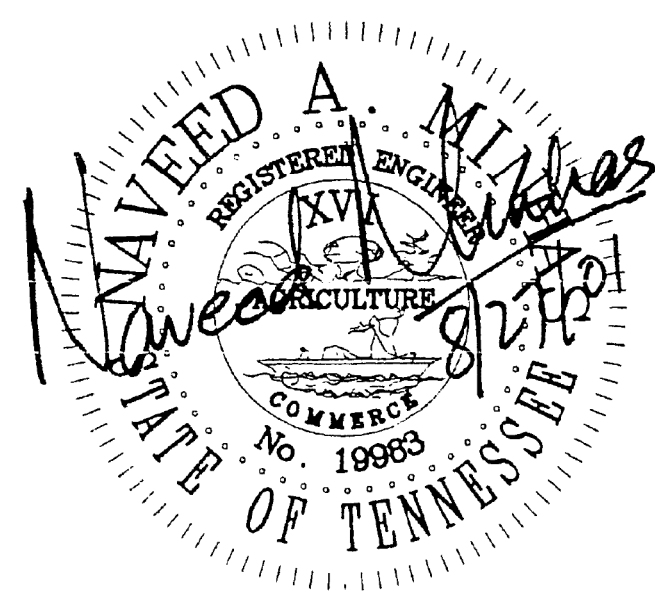
8. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL EROSION AND WATER POLLUTION THROUGH THE CONSTRUCTION PERIOD. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE EARTH MOVING OPERATIONS BEGIN. CLEARING AND GRUBBING SHALL BE HELD TO A MINIMUM WIDTH NECESSARY TO ACCOMMODATE ROADWAY SLOPES. EMBANKMENTS AND EXCAVATED AREAS SHALL BE PROMPTLY STABILIZED TO MINIMIZE EROSION. BALED STRAW EROSION CHECKS AND SILT FENCING SHALL BE USED ALONG THE TOE OF FILL SLOPES, IN DITCHES, AND IN OTHER AREAS WHERE EROSION IS A PROBLEM AND SILT-LADEN RUNOFF MAY ENTER A STREAM OR ADJACENT PROPERTY.
9. ANY STOCKPILED SOIL OR FILL MATERIAL SHALL BE LOCATED AND TREATED IN A MANNER TO PREVENT SILT'S ENTERING STREAMS. NO EXCAVATED MATERIAL SHALL BE DISCHARGED INTO DITCHES. THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL IN A LOCATION, APPROVED BY THE ENGINEER, ABOVE THE NORMAL HIGH WATER ELEVATION.
10. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL EROSION CONTROL PROVISIONS AS SET FORTH IN THE BEST MANAGEMENT PRACTICES MANUAL AVAILABLE FROM THE ENGINEERING/STORMWATER DIVISION OF THE CITY OF CHATTANOOGA, DEPARTMENT OF PUBLIC WORKS. REFER TO CITY ORDINANCE 9942, AS AMENDED.
11. THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION AND WATER CONTROL MEASURES (SUCH AS BERMS, SEDIMENT BASINS, SLOPE DRAINS, HAY BALES, AND SILT FENCES) AS DIRECTED BY THE ENGINEER. THESE TEMPORARY MEASURES SHALL BE COORDINATED WITH THE PERMANENT EROSION CONTROL FEATURES TO ASSURE ECONOMICAL, EFFECTIVE, AND CONTINUOUS EROSION CONTROL THROUGHOUT THE PROJECT.
12. NO EARTH OR OTHER ERODIBLE MATERIAL SHALL BE USED TO DIVERT STREAM FLOW OR TO CONSTRUCT COFFERDAMS. CLEAN CUT ROCK WITH FINES MAY BE USED, OR, IN THE CASE OF COFFERDAMS, STEEL SHEETING IS PERMISSIBLE. WATER OR SEDIMENT ISOLATED BY COFFERDAMS OR DISPLACED FOOTINGS SHALL BE PUMPED INTO SEDIMENT BASINS ON THE BANK OF THE STREAM.

DRAINAGE

13. THE CONTRACTOR IS REQUIRED TO CONNECT ALL EXISTING STORM DRAINAGE PIPING TO PROPOSED DRAINAGE STRUCTURES AS MAY BE REQUIRED BY THE FIELD ENGINEER.
14. EXISTING DOWNSPOUT DRAINAGE THAT IS CONNECTED TO THE PRESENT STORM SEWER SYSTEM SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM.
15. THE CONTRACTOR SHALL BE REQUIRED TO BACKFILL STORM SEWERS WITH BACKFILL MATERIAL ACCORDING TO THESE STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER.

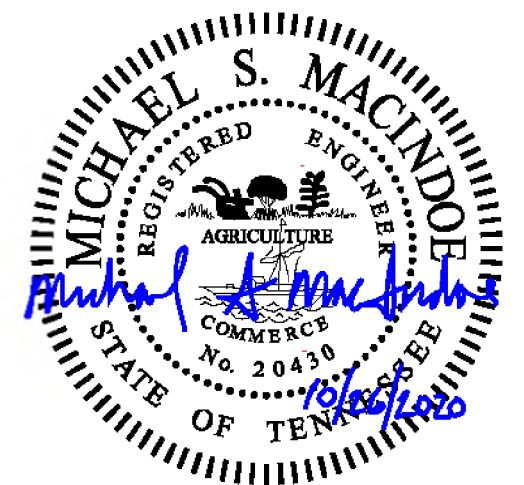
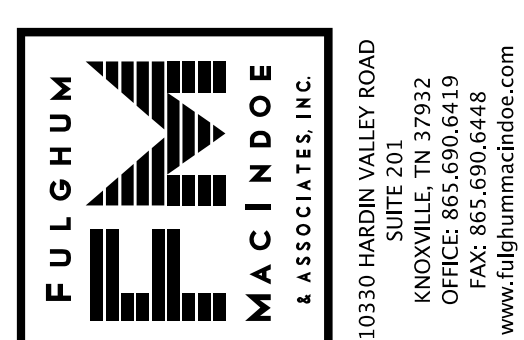
UTILITIES

16. LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, ARE APPROXIMATE ONLY, AND THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. IT IS POSSIBLE THAT SOME EXISTING FACILITIES ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITY FACILITIES LOCATED AND MARKED PRIOR TO THE BEGINNING OF CONSTRUCTION.
17. UTILITY OWNERS ARE TO RESET, RELAY, OR ADJUST, AT THEIR OWN EXPENSE, POWER AND TELEPHONE LINES, POWER POLES, WATER AND GAS LINES, AND ALL OTHER FACILITIES INCLUDING METERS, VALVES, PITS, ETC., CONFLICTING WITH THE PROPOSED IMPROVEMENTS WITHIN THE EXISTING RIGHT-OF-WAY. ALL RELOCATED POLES, METERS, VALVES, ETC., ARE TO BE LOCATED BEHIND THE SIDEWALK OR ON THE RIGHT-OF-WAY LINE.
18. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITY OWNERS PRIOR TO SUBMITTING HIS BID, SO THAT HE MAY DETERMINE THE EXTENT OF DELAYS THAT UTILITY RELOCATIONS AND/OR ADJUSTMENTS MAY HAVE UPON THE SCHEDULING OF WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS, WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT SHALL REMAIN IN PLACE. IT IS SPECIFIED AND AGREED THAT THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY UTILITY ADJUSTMENTS.
19. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY GAS, WATER, OR SEWER SERVICES. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY CUSTOMERS AT LEAST 24 HOURS BEFORE INTERRUPTING THE CUSTOMERS' SERVICE. WHERE INDIVIDUAL SERVICES ARE TO BE DISCONTINUED FOR MORE THAN 4 HOURS, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROVIDING TEMPORARY SERVICE SATISFACTORY TO THE AFFECTED CUSTOMER. THE REPAIR OR REPLACEMENT OF UTILITY COMPONENTS SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE UTILITY OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THESE ACTIVITIES, AND COMPENSATION SHALL BE INCLUDED IN THE CONTRACT PRICES FOR OTHER ITEMS.
20. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FROM FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
21. ANY EXISTING STORM SEWER DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AS RAPIDLY AS POSSIBLE AND THEN BE INSPECTED BY ITS RESPECTIVE OWNER. THE ENGINEER SHALL DETERMINE IF DAMAGE IS THE RESULT OF THE CONTRACTOR'S NEGLIGENCE OR OF AN UNAVOIDABLE CAUSE.
22. IF ANY SANITARY SEWER IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY'S OWNER. REPAIR OF THE SEWER SHALL THEN BE ACCORDING TO THE OWNER'S INSTRUCTIONS. THE ENGINEER SHALL DETERMINE IF DAMAGE IS THE RESULT OF THE CONTRACTOR'S NEGLIGENCE OR OF AN UNAVOIDABLE CAUSE.
23. ALL CUTS AND FILLS ARE TO BE IN PLACE, AND FILLS COMPACTED, PRIOR TO INSTALLATION OF SANITARY SEWERS AND APPURTENANCES.
24. ALL SANITARY SEWER CONSTRUCTION MUST BE DONE BY A LICENSED MUNICIPAL UTILITY CONTRACTOR-CLASSIFICATION MU.
25. TRANSITION JOINTS ON SANITARY SEWER PIPES OF DIFFERENT MATERIALS MUST BE APPROVED BY THE JURISDICTIONAL ENGINEER, AND CONSTRUCTION MUST BE DONE WITH APPROVED FITTINGS AND/OR ADAPTERS.
26. ALL PROPOSED SANITARY SEWER LINES AND MANHOLES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF CHATTANOOGA/HAMILTON COUNTY STANDARD DETAILS AND SPECIFICATIONS.
27. THE CONTRACTOR SHALL NOTIFY THE INSPECTOR AT (423)757-5120 (CITY) OR (423)209-6410 (COUNTY) AT LEAST 48 HOURS PRIOR TO THE START OF SEWER CONSTRUCTION.



NO.	REVISION	DATE
1	REVISIONS AS MARKED OR CLOUDED	8/24/01
0	INITIAL ISSUE	12/10/99

CITY OF CHATTANOOGA AND HAMILTON COUNTY	
<i>GENERAL NOTES</i>	
DATE OF ORIGINAL ISSUE DECEMBER 10, 1999	STANDARD NUMBER : SD-100.01



RIVERVIEW PARK/CGCC
CHRONIC SSO ELIMINATION
CITY OF CHATTANOOGA, TN
CONSENT DECREE PROGRAM



REV	DATE	REVISION DESCRIPTION
REV1	10/26/20	ISSUED FOR CONSTRUCTION
REV0	08/03/20	ISSUED FOR 90% REVIEW

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PROJECT NO: 649.001
DATE: 10/26/2020
DISC. LEAD: MSM DESIGNER: TAC CHECKER: SEE

SHEET TITLE: CIVIL

GENERAL NOTES

SHEET: G4



CREATED: 2/1/2020 LAST SAVED: 7/29/2020 BY: TAC PLOT DATE: 10/26/2020
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GENERAL NOTES

- 28. SANITARY SEWER LINES SHALL BE OF DUCTILE IRON PIPE AT ALL LOCATIONS WHERE SANITARY LINES CROSS WITHIN 18 INCHES ABOVE OR BELOW A STORM SEWER LINE. AS AN ALTERNATE, IF SANITARY SEWER LINES ARE PVC, THEN CONCRETE PROTECTION SHALL BE PROVIDED.
- 29. WHERE WATER PIPING CROSSES THE SANITARY SEWER LINE, THE WATER SERVICE WITHIN 10 FEET OF THE POINT OF CROSSING SHALL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE. THE SEWER LINE SHALL BE OF DUCTILE IRON WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING.
- 30. ANCHOR COLLARS SHALL BE PROVIDED ON SANITARY SEWER LINES WITH SLOPES EXCEEDING 18% WITH SPACING AS SPECIFIED BY THE STATE OF TENNESSEE DESIGN CRITERIA FOR SEWAGE WORKS.
- 31. SERVICE LATERALS EXTENDING TO THE PROPERTY LINE SHALL EACH HAVE A CLEANOUT AT THE PROPERTY LINE.
- 32. ALL CONNECTIONS TO EXISTING MANHOLES MUST BE CORED AND BOOTED AND THE INVERTS REFORMED.
- 33. TOPS OF ALL MANHOLES SHALL BE RAISED TO BE AT LEAST FLUSH WITH OR ABOVE NEW FINISHED GRADES AND BE VISIBLE.
- 34. MANHOLES RAISED 8 INCHES OR LESS SHALL BE DONE BY THE USE OF CONCRETE RINGS OR "DOUGHNUTS". MANHOLES RAISED GREATER THAN 8 INCHES SHALL REQUIRE THE REMOVAL OF THE CONE SECTION AND PLACEMENT OF THE APPROPRIATE SIZE MANHOLE RISER. THE CONE SECTION SHALL THEN BE REINSTALLED OR REPLACED DEPENDING ON CONDITION.
- 35. ALL SEWER LINES SHALL BE TESTED AND APPROVED AFTER ALL OTHER UTILITIES HAVE BEEN INSTALLED.
- 36. UPON COMPLETION OF THE PROJECT, ALL PUBLIC SEWER EASEMENTS OBTAINED SHALL BE SUBMITTED TO THE JURISDICTIONAL WASTEWATER AUTHORITY WITHIN 30 DAYS.
- 37. ALL NEWLY CONSTRUCTED SANITARY SEWERS SHALL BE TELEVISED AT THE REQUEST OF THE JURISDICTIONAL ENGINEER.

TRAFFIC

- 38. UPON NOTICE OF AWARD OF A CITY OF CHATTANOOGA CONTRACT, THE CONTRACTOR SHALL SUBMIT, WITHIN TEN (10) DAYS, A CONSTRUCTION SCHEDULE. THE CITY OF CHATTANOOGA'S TRAFFIC ENGINEERING DEPARTMENT SHALL PROVIDE A WORK ZONE TRAFFIC CONTROL PLAN WITHIN FIVE (5) DAYS THEREAFTER.
- 39. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN TRAFFIC AND PROVIDE TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL TRAFFIC SIGNS AND MARKINGS AS REQUIRED BY THE MUTCD AND THE CITY OF CHATTANOOGA'S TRAFFIC ENGINEERING DEPARTMENT OR HAMILTON COUNTY'S ENGINEERING DEPARTMENT, WHICHEVER IS APPROPRIATE.
- 40. PERMANENT SIGNS AND PAVEMENT MARKINGS SHALL BE PLACED BY THE CITY/COUNTY UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- 41. THE CONTRACTOR SHALL MAINTAIN ALL BUSINESS, VEHICULAR, AND PEDESTRIAN ENTRANCES.
- 42. THE CONTRACTOR SHALL PROVIDE A PEDESTRIAN WALKWAY THAT SEPARATES AND INSULATES THE PEDESTRIAN FROM THE CONSTRUCTION SITE AND VEHICULAR TRAFFIC. WHERE POSSIBLE, THE WALKWAY SHALL BE ON THE SAME SIDE OF THE STREET AS THE CONSTRUCTION SITE. WHERE OVERHEAD DANGER EXISTS, THE CONTRACTOR SHALL PROVIDE A COVERED WALKWAY.
- 43. PRIOR TO CLOSING THE ROAD TO THROUGH TRAFFIC, THE CONTRACTOR SHALL NOTIFY ALL AFFECTED LOCAL AGENCIES ABOUT THE PROPOSED ROAD CLOSURE. THOSE TO BE CONTACTED SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: FIRE DEPARTMENT, POLICE DEPARTMENT, SHERIFF'S DEPARTMENT, POST OFFICE, CITY TRAFFIC ENGINEER'S OFFICE, AND THE BOARD OF EDUCATION.

DRIVEWAYS

44. WHEN A CONCRETE CURB AND GUTTER IS BUILT, THE CONTRACTOR SHALL INSTALL A DROP CURB FOR EACH LOT AT A LOCATION CHOSEN BY THE ENGINEER. A DOWNTOWN LOT SHALL BE EXEMPT WHEN A BUILDING EXISTS ACROSS THE PROPERTY FRONTAGE OR IS PLANNED TO BE CONSTRUCTED ACROSS THE FRONTAGE.

45. EXISTING, PAVED DRIVEWAYS SHALL BE REPLACED IN KIND TO THE TIE-IN POINT. EACH EXISTING, UNPAVED DRIVEWAY SHALL RECEIVE A FIVE FEET CONCRETE APRON BEHIND, AND ADJACENT TO, THE BACK CURB LINE AND THEN BE REPLACED IN KIND FROM THERE TO THE TIE-IN POINT.

RIGHTS-OF-WAY/EASEMENTS

46. BEFORE CONSTRUCTION BEGINS, THE APPROPRIATE GOVERNMENTAL AGENCY SHALL SECURE ALL RIGHTS-OF-WAY AND EASEMENTS REQUIRED FOR COMPLETION OF THE PROJECT.

MISCELLANEOUS

47. THE ENGINEER SHALL HAVE THE AUTHORITY TO DESIGNATE AND/OR LIMIT AREAS OF CONSTRUCTION.

48. THE OWNER MAKES NO REPRESENTATIONS ABOUT SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT. THEREFORE, THE CONTRACTOR SHOULD SATISFY HIMSELF BY ON-SITE INSPECTIONS, CORE DRILLINGS, OR OTHER METHODS, OF THE SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED. THE RISK OF ENCOUNTERING AND CORRECTING UNFAVORABLE, SUBSURFACE CONDITIONS SHALL BE BORNE SOLELY BY THE CONTRACTOR.

49. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL FIELD LAYOUTS FOR APPROVAL BY THE ENGINEER.

50. SHOULD AN EXISTING BENCH MARK BE LOCATED ON A POWER POLE, TELEPHONE POLE, ETC., THAT IS TO BE RELOCATED DURING CONSTRUCTION, THE BENCH MARK SHALL BE RELOCATED BY A CITY OR COUNTY SURVEY CREW PRIOR TO CONSTRUCTION.

51. ALL SALVAGEABLE MATERIAL FROM EXISTING PIPING AND STRUCTURES SHALL REMAIN PROPERTY OF THE CITY OF CHATTANOOGA OR OF HAMILTON COUNTY. SAID MATERIAL SHALL BE CLEANED AND THEN DELIVERED TO THE OWNER AT A LOCATION DESIGNATED BY THE ENGINEER.

52. ALL UNSUITABLE MATERIAL, AS DETERMINED BY THE ENGINEER OR THROUGH TESTING, IS TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.

53. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING, AT HIS OWN EXPENSE, ANY AND ALL DAMAGES THAT MAY OCCUR OUTSIDE THE LIMITS OF THIS PROJECT AS A RESULT OF CONSTRUCTION.

54. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EXISTING COMBINED CURB AND GUTTERS WHERE APPLICABLE.

55. ALL ABANDONED STRUCTURES (E.G., CATCH BASINS, MANHOLES, FOUNDATIONS, ETC.), UTILITY FACILITIES, AND SIMILAR ITEMS WITHIN THE LIMITS OF PAVING SHALL BE REMOVED TO A MINIMUM OF TWO FEET BELOW THE TOP OF SUBGRADE, AND REMAINING VOIDS SHALL BE FILLED WITH COMPACTED, CRUSHED STONE TO THE TOP OF SUBGRADE.

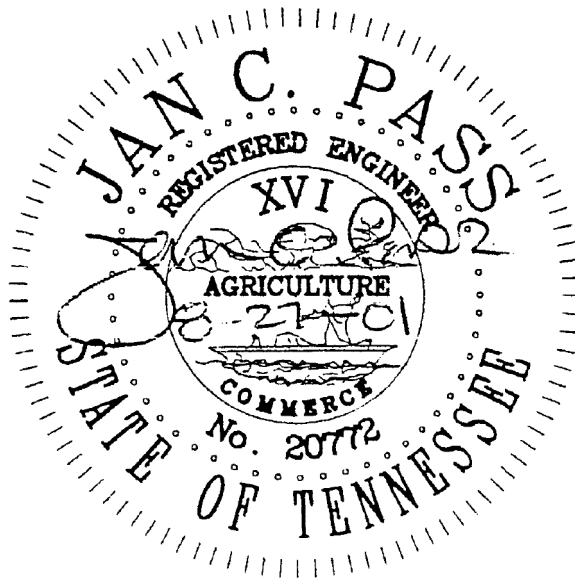
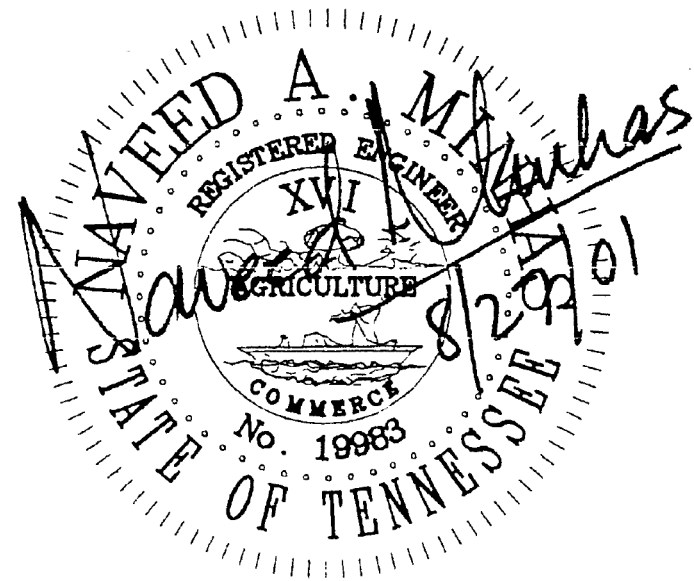
56. THE CONTRACTOR SHALL NOT BE ALLOWED TO REMOVE ANY FENCE OTHER THAN THAT NECESSARY FOR THE CONSTRUCTION OF THE PROJECT OR RELATED APPURTENANCES. ANY FENCE REMOVED IS TO BE REPLACED IN KIND BY THE CONTRACTOR. TEMPORARY FENCING MAY BE REQUIRED.

57. THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS ONE WEEK'S NOTICE PRIOR TO CUTTING FENCES.

58. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF THE PROJECT WITHIN THIRTY (30) DAYS AFTER SUBSTANTIAL COMPLETION OF THE WORK. ("SUBSTANTIAL COMPLETION" SHALL BE DEFINED BY THE JURISDICTIONAL ENGINEER.) THE ENGINEER RESERVES THE RIGHT TO WITHHOLD THE RETAINER UNTIL RECEIVING A COMPLETE SET OF SAID DRAWINGS.

59. SHOULD THERE BE A CONFLICT BETWEEN THESE GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS, THE MOST RESTRICTIVE INTERPRETATION SHALL PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FROM THE ENGINEER ANY CLARIFICATION OR INTERPRETATION OF GENERAL NOTES, CONTRACT DRAWINGS AND/OR SPECIFICATIONS IN WRITING AND IN ADVANCE OF THE BEGINNING OF CONSTRUCTION.

60. ALL CONCRETE SHALL BE CLASS "A" (4,000 P.S.I.) UNLESS OTHERWISE NOTED ON A DRAWING. (CLASS "B" CONCRETE SHALL BE 3,000 P.S.I.)

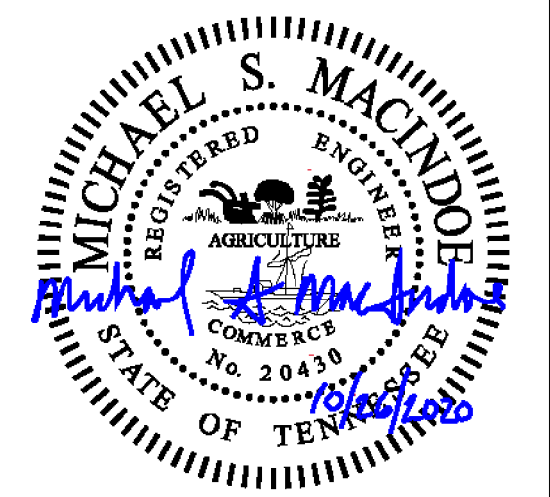
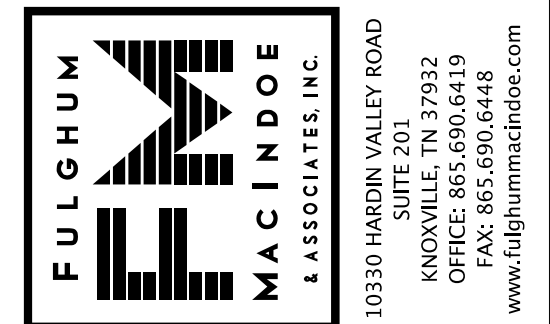


NO.	REVISION	DATE
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CITY OF CHATTANOOGA AND HAMILTON COUNTY GENERAL NOTES

DATE OF ORIGINAL ISSUE
DECEMBER 10, 1999

STANDARD NUMBER : **SD-100.02**



RIVERVIEW PARK/CGCC
CHRONIC SSO ELIMINATION
CITY OF CHATTANOOGA, TN
CONSENT DECREE PROGRAM



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REV0	08/03/20	ISSUED FOR 90% REVIEW

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PROJECT NO: 649.001
DATE: 10/26/2020
DISC. LEAD: MSM
DESIGNER: TAC
CHECKER: SEE
SHEET TITLE: CIVIL

GENERAL NOTES

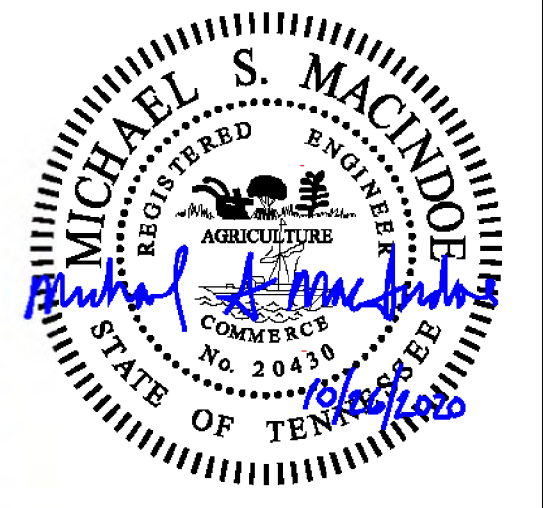
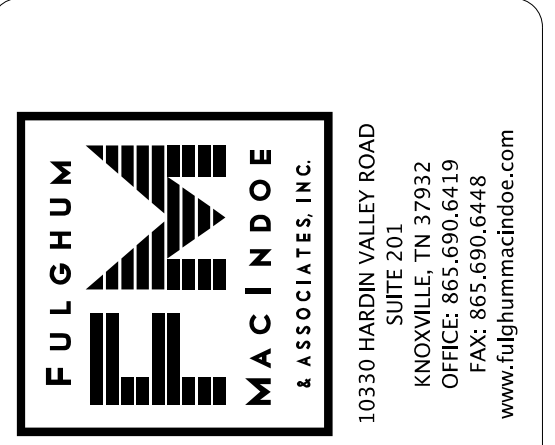
SHEET G5

CREATED: 2/1/2020
 LAST SAVED: 10/23/2020
 BY: TAC
 PLOT DATE: 10/26/2020



SUMMARY OF EASEMENTS			
FROM MH	TO MH	PERMANENT EASEMENT WIDTH	REFERENCE
MH S136I018	MH S136G025	30- FEET	
MH S136G025	MH S136A163	25- FEET	8627-18-SE-D2-372
MH S136G025	MH S136G020	20- FEET	8627-18-SE-01-372
MH S136H121	MH S136H120	20- FEET	
MH S136G025	MH S136H111A	25- FEET	
MH S136H111A	MH S136H110	25- FEET	

- CONSTRUCTION NOTES:**
- INSTALL AND MAINTAIN 4-FT HIGH ORANGE, PLASTIC CONSTRUCTION BARRIER FENCE PARALLEL TO THE 60-FT WIDE CONSTRUCTION CORRIDOR. ALL CONSTRUCTION ACTIVITIES SHALL BE CONTAINED WITHIN THIS CORRIDOR.
 - THE BY-PASS PIPE SHALL NOT BE LOCATED ON THE GOLF COURSE AND SHALL BE LOCATED A MINIMUM OF 10-FT FROM THE CART PATH.
 - ACCESS TO HOLE NO.4 IS PROHIBITED.



RIVERVIEW PARK/CGCC
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SHEET TITLE CIVIL
 EASEMENTS AND CONSTRUCTION LAYDOWN AREAS



GENERAL BYPASS PUMP NOTES:

- REFER TO SPECIFICATION SECTION 01 51 43.
- ROUTE OF THE BYPASS PIPES SHALL STAY WITHIN THE TEMPORARY CONSTRUCTION EASEMENTS. REFER TO SPECIFICATION PARAGRAPH 3.02 E. REGARDING BURIAL OF BYPASS PIPE.
- USE ROAD RAMPS (SIMILAR TO XYLEM® ROAD RAMPS) WHERE PIPE CROSSES ROADWAYS AND DRIVEWAYS. ORIENT RAMPS SO VEHICLES CAN EASILY ACCESS RAMPS FROM BOTH DIRECTIONS.
- ANCHOR BYPASS PIPES TO PREVENT MOVEMENT OF PIPE.
- INSTALL SILT FENCE AND STRAW BALES AROUND PERIMETER OF BYPASS PUMP SITE.
- BYPASS PUMP SITES ARE SUSCEPTIBLE TO FLOODING. REFER TO SHEETS C1, C2 AND C3 FOR APPROXIMATE 100-YR FLOOD ELEVATION. PREPARE FLOOD RESPONSE PLAN THAT ADDRESSES ACTIONS THAT WILL BE TAKEN TO PROTECT BYPASS OPERATIONS.
- RESTORE SITES AFTER DEMOBILIZATION OF EQUIPMENT AND MATERIALS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF ALL SPILLS. NOTIFY REGULATORY AGENCIES, INCLUDING BUT NOT LIMITED TO, THE CITY OF CHATTANOOGA AND THE CHATTANOOGA ENVIRONMENTAL FIELD OFFICE (423)634-5745.
- SEWER FLOW FROM CUSTOMERS LOCATED ALONG HERITAGE LANDING DRIVE IS CONVEYED VIA 8-INCH PRIVATE SEWER LINES INTO MH S136001. PEAK FLOW IS UNKNOWN. CALCULATED AVERAGE DAILY FLOW, BASED ON APPROXIMATELY 70 CONNECTIONS, IS APPROXIMATELY 14,000 GPD.
- SEWER FLOW FROM 8-INCH SEWER LINE CONNECTED TO MH S136H111 SHALL BE MANAGED USING TEMPORARY BYPASS PUMP SYSTEM OR PUMP AND HAUL. FLOW INTO MH S136H111 IS ANTICIPATED TO BE APPROXIMATELY 1,000 GPD. FORCE MAIN MAY BE CONNECTED TO 15-INCH SEWER BYPASS PIPE.
- SEWER FLOW FROM 8-INCH SEWER LINE CONNECTED TO MH S136G025 SHALL BE MANAGED USING TEMPORARY BYPASS PUMP SYSTEM. PEAK FLOW IS UNKNOWN. CALCULATED AVERAGE DAILY FLOW, BASED ON APPROXIMATELY 22 CONNECTIONS, IS ANTICIPATED TO BE APPROXIMATELY 11,000 GPD. FORCE MAIN MAY BE CONNECTED TO 15-INCH SEWER BYPASS PIPE.
- RESTORE MANHOLES TO PRECONSTRUCTION CONDITION IF DISASSEMBLED OR MODIFIED TO INSTALL BYPASS PUMP SUCTION AND DISCHARGE PIPING. REFER TO SPECIFICATION FOR TESTING. REHABILITATE MANHOLES AFTER RESTORED TO PRECONSTRUCTION CONFIGURATION.
- RESTORE AREAS DISTURBED BY ASSEMBLY, INSTALLATION AND DISASSEMBLY OF BYPASS PUMPS AND PIPING, INCLUDING BUT NOT LIMITED TO GRASS AREAS, ASPHALT DRIVEWAYS, SIDEWALKS, ETC. ASPHALT AREAS IMPACTED BY DIRECT BURIAL OF BYPASS PIPING SHALL BE RESTORED BY NEATLY SAWCUTTING ASPHALT PRIOR TO PATCHING. MATCH EXISTING ASPHALT DEPTH.
- BYPASS PUMP AREA MAY REQUIRE LEVELING BY EXCAVATION PRIOR TO SETUP OF PUMPS. STOCKPILE MATERIAL AND USE TO RESTORE DISTURBED AREA. RESTORATION OF AREA SHALL MATCH PRECONSTRUCTION GRADE.
- INSTALLATION OF MH S136A163 WILL REQUIRE TEMPORARY BYPASS OF FLOW FROM MH S136A129. PEAK FLOW IS UNKNOWN. CALCULATED AVERAGE DAILY FLOW, BASED ON APPROXIMATELY 25 CONNECTIONS, IS APPROXIMATELY 12,500 GPD.

BYPASS NOTES—15" SEWER:

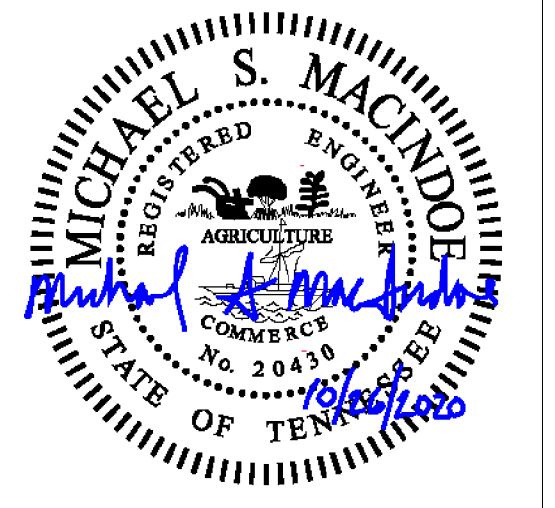
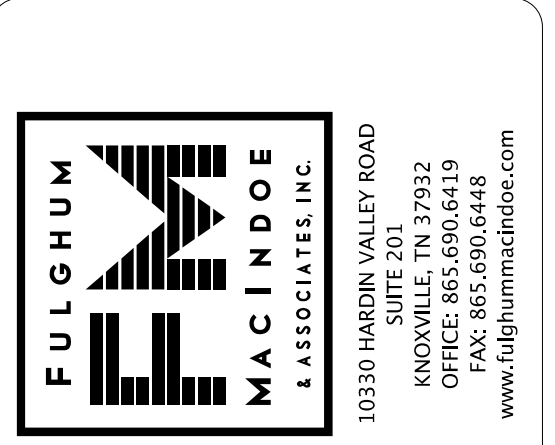
- SETUP NO. 1:
- PUMP BYPASS SETUP NO. 1 SHALL BE AT MANHOLE S136G025.
 - PLUG 15-INCH SEWER IN MH S136G025.
 - EXTEND BYPASS PIPE TO MH S136G025. BYPASS PIPE SHALL NOT ENCROUGH ON OR CROSS THE CART PATH EXCEPT WHERE NOTED. INSTALL BYPASS PIPE A MINIMUM OF 10-FT FROM CART PATH.
 - BYPASS OPERATION SHALL BE CONTINUOUS UNTIL WORK FROM MH S136018 THROUGH MH S136G027 IS COMPLETE.
 - DISMANTLE SETUP AND RELOCATE PUMPS AND BYPASS PIPE FROM MH S136H103 INTO MH S136G027.

- SETUP NO. 2:
- PUMP BYPASS SETUP NO. 2 SHALL BE AT MANHOLE S136H103.
 - PLUG 15-INCH SEWER IN MH S136A163.
 - EXTEND BYPASS PIPE TO MH S136G027.
 - BYPASS OPERATION SHALL BE CONTINUOUS UNTIL WORK THROUGH MH S136A163 IS COMPLETE.

- BYPASS NOTES—42" SEWER:**
- PUMP SETUP SHALL BE AT MH S136J025.
 - REFER TO PICTURES (SHEET G3) FOR EXISTING SITE CONDITIONS IN VICINITY OF SETUP.
 - PLUG 42-INCH SEWER WHERE SHOWN.
 - BYPASS PIPE(S) SHALL DISCHARGE INTO MH S136I019. BYPASS PIPING SHALL TERMINATE APPROXIMATELY 3-FT ABOVE CROWN OF 42" PIPE. SEAL ANNULAR SPACE BETWEEN PIPE AND MANHOLE.
 - USE CONSTRUCTION MATTING ON GROUND SURFACE FROM HERITAGE LANDING DRIVE TO BYPASS PUMP SETUP. CONSTRUCTION MATTING SHALL ALSO BE USED BENEATH BYPASS PUMPS.



PLOT DATE: 10/26/2020
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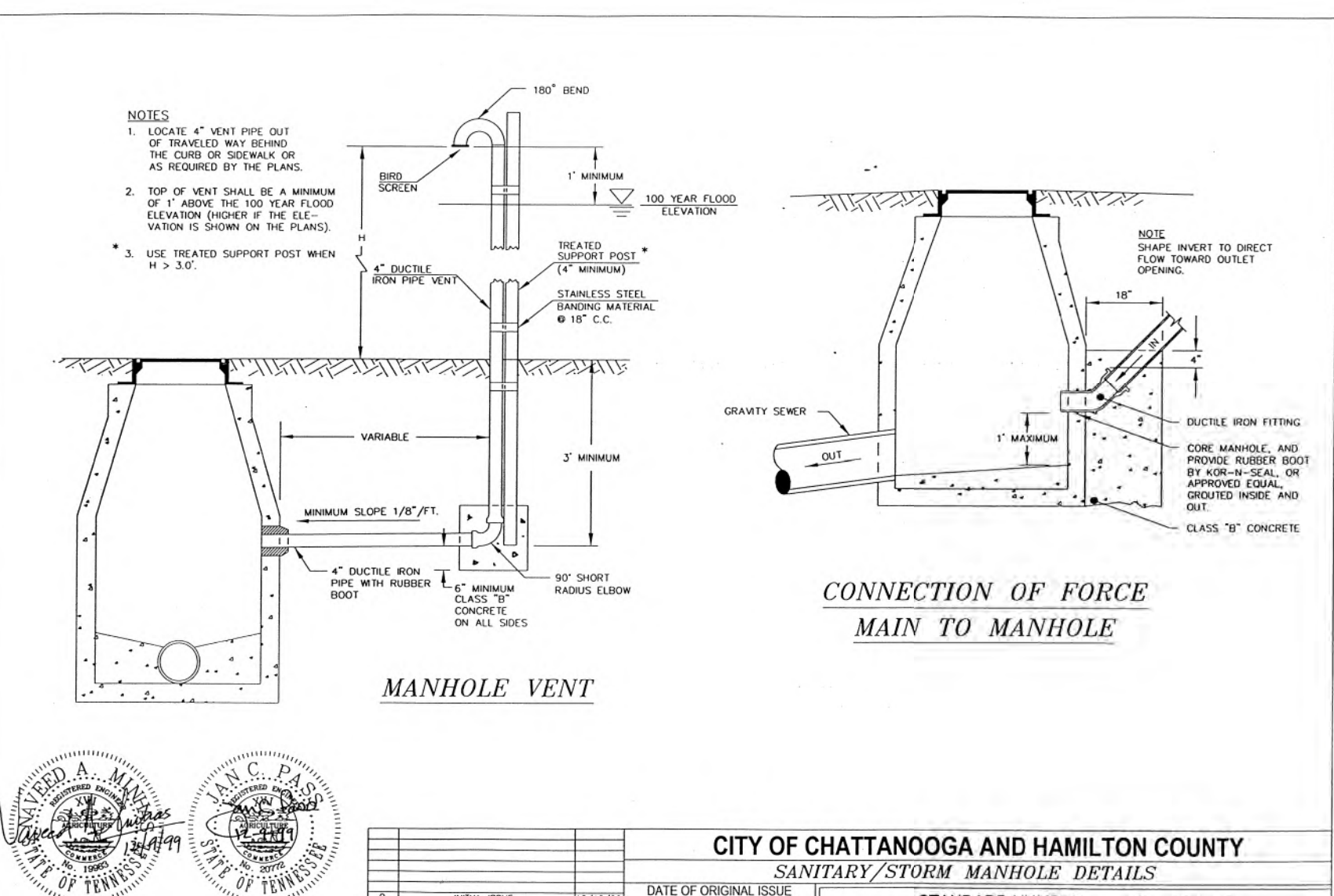
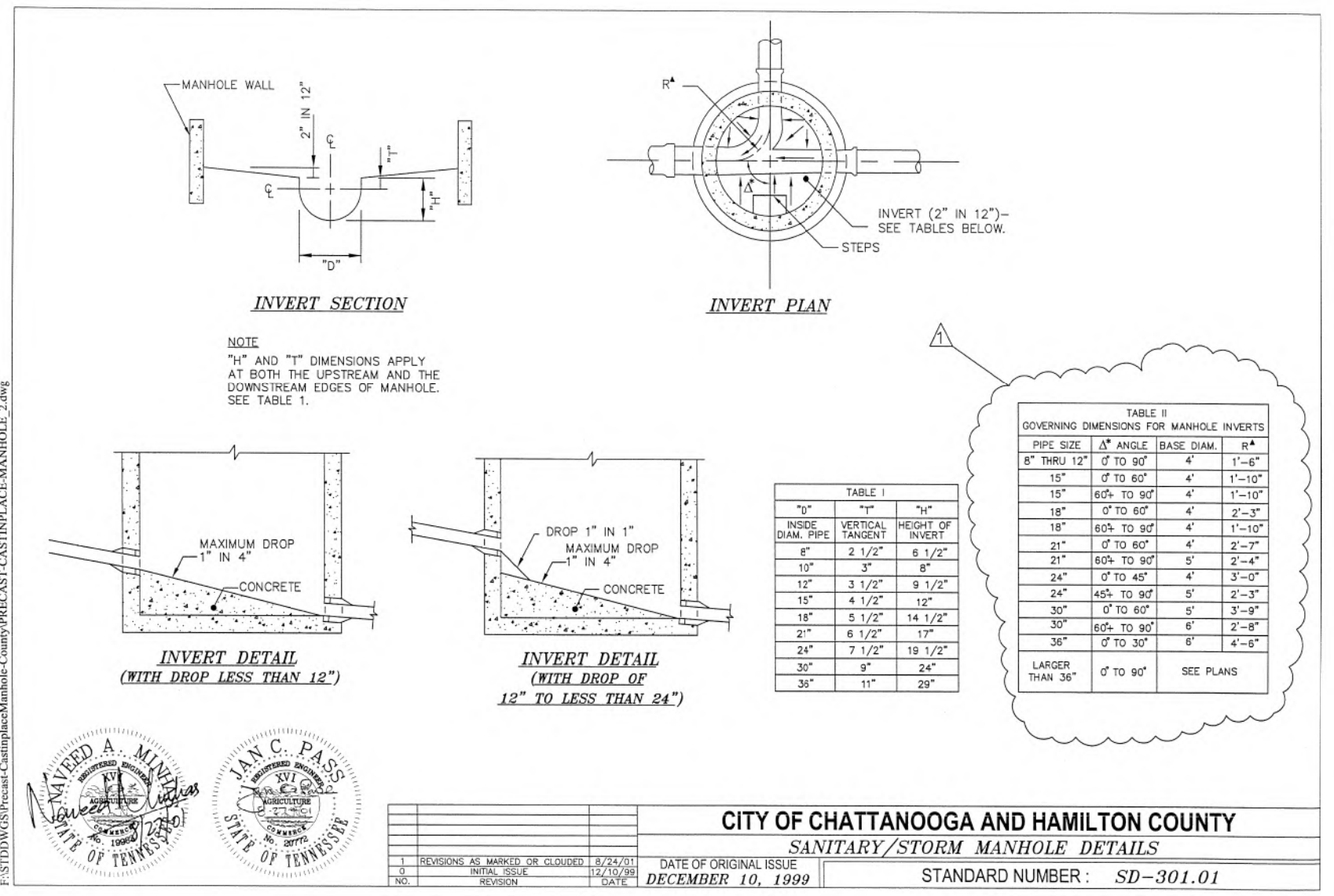
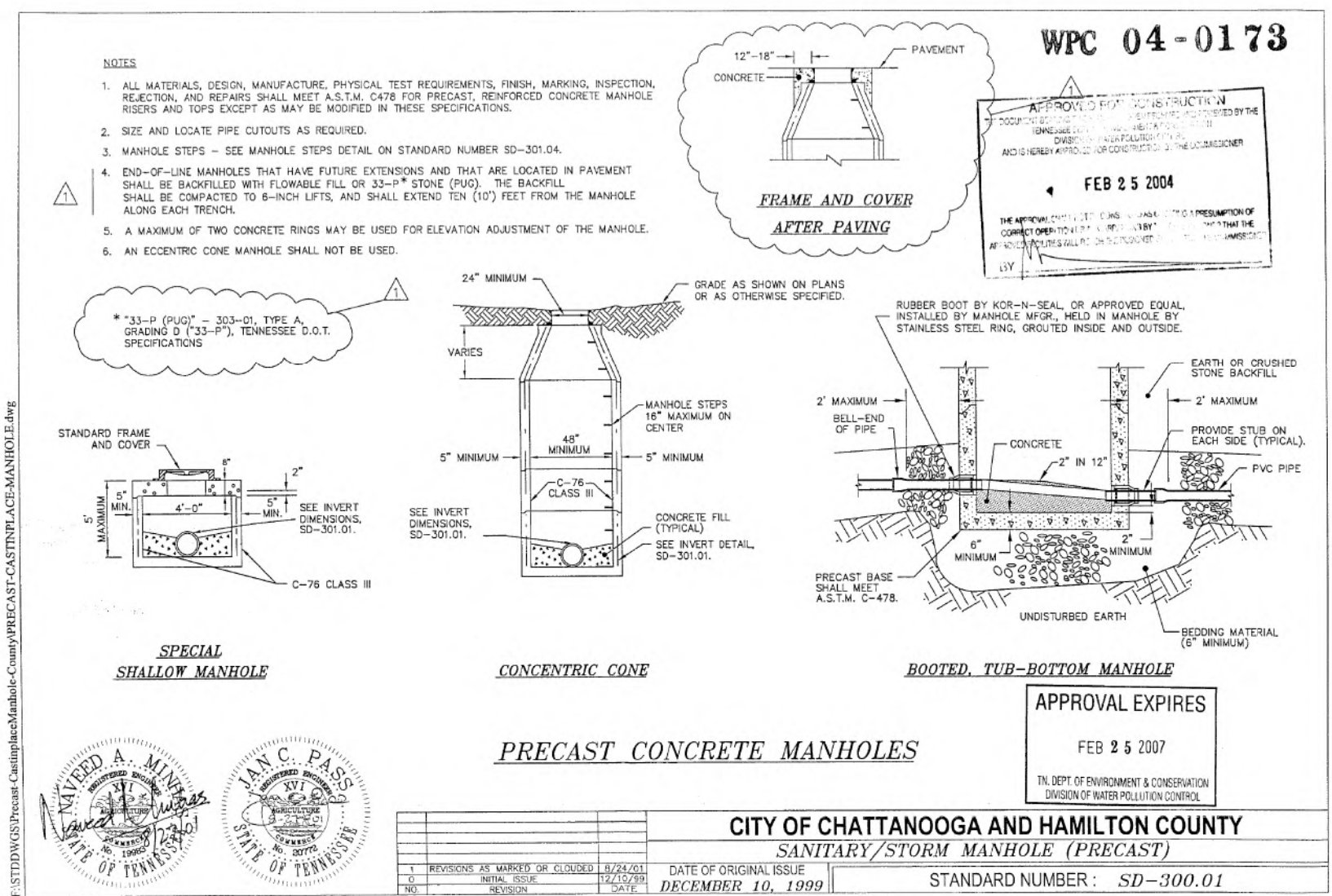


**RIVERVIEW PARK/CCG
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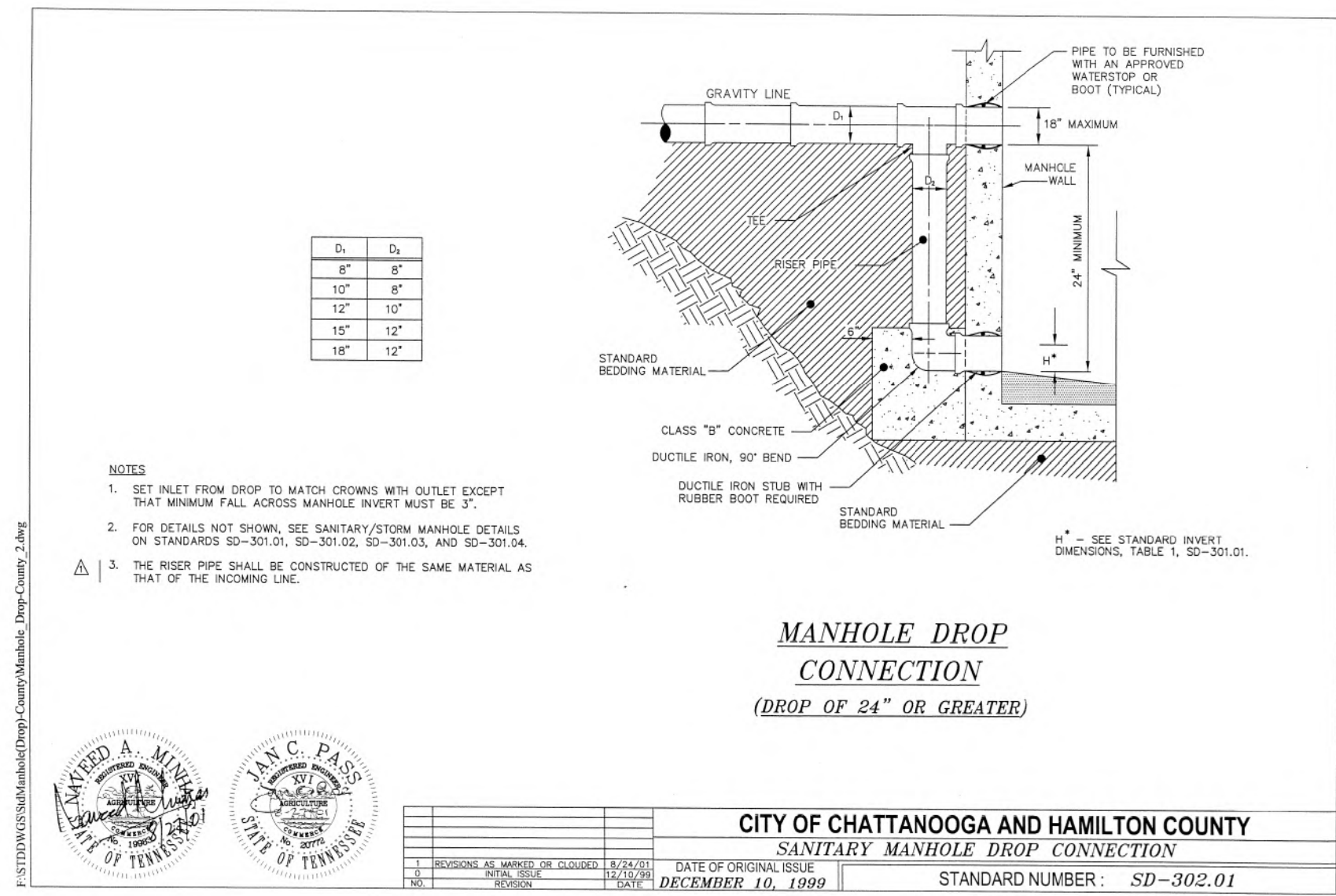
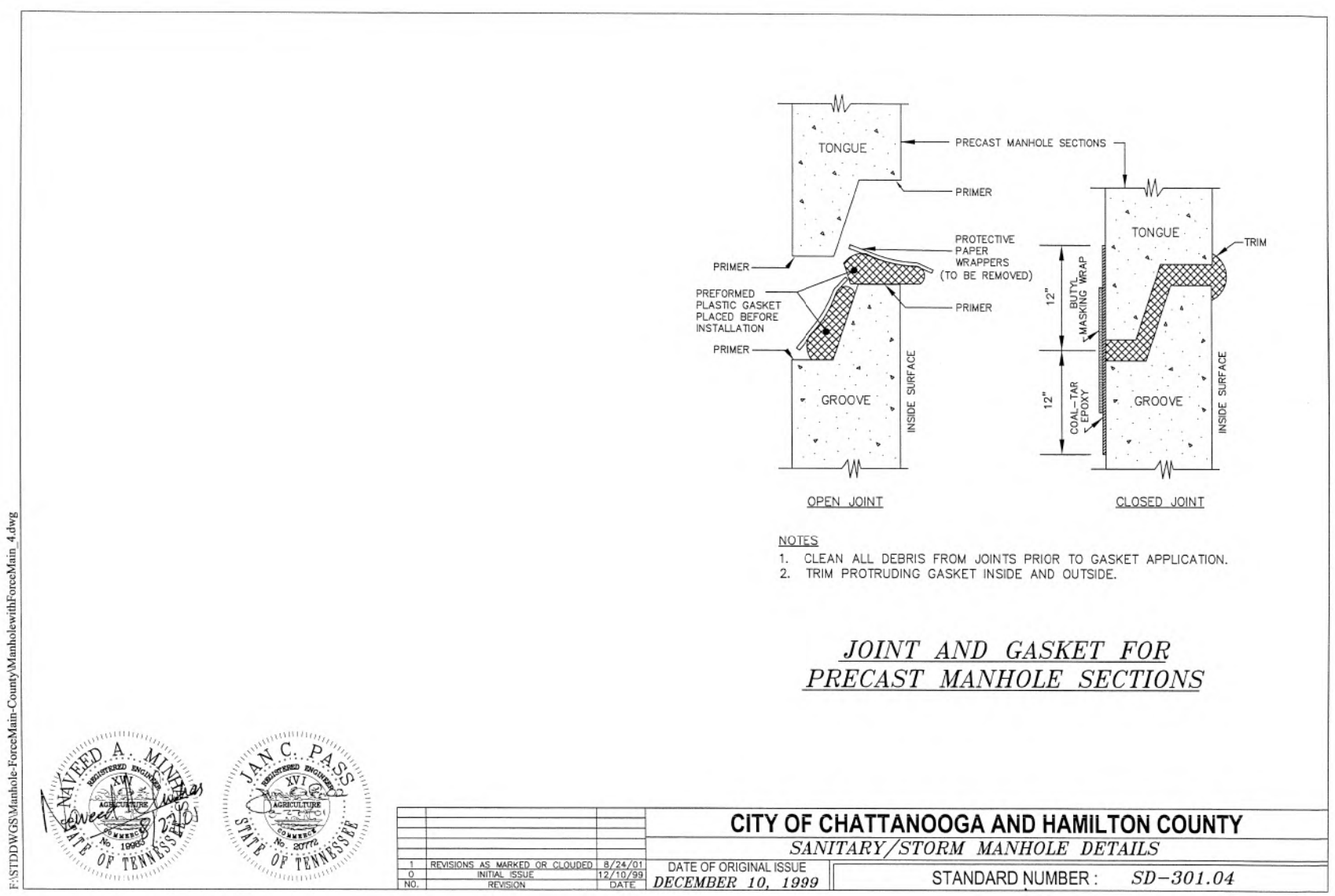
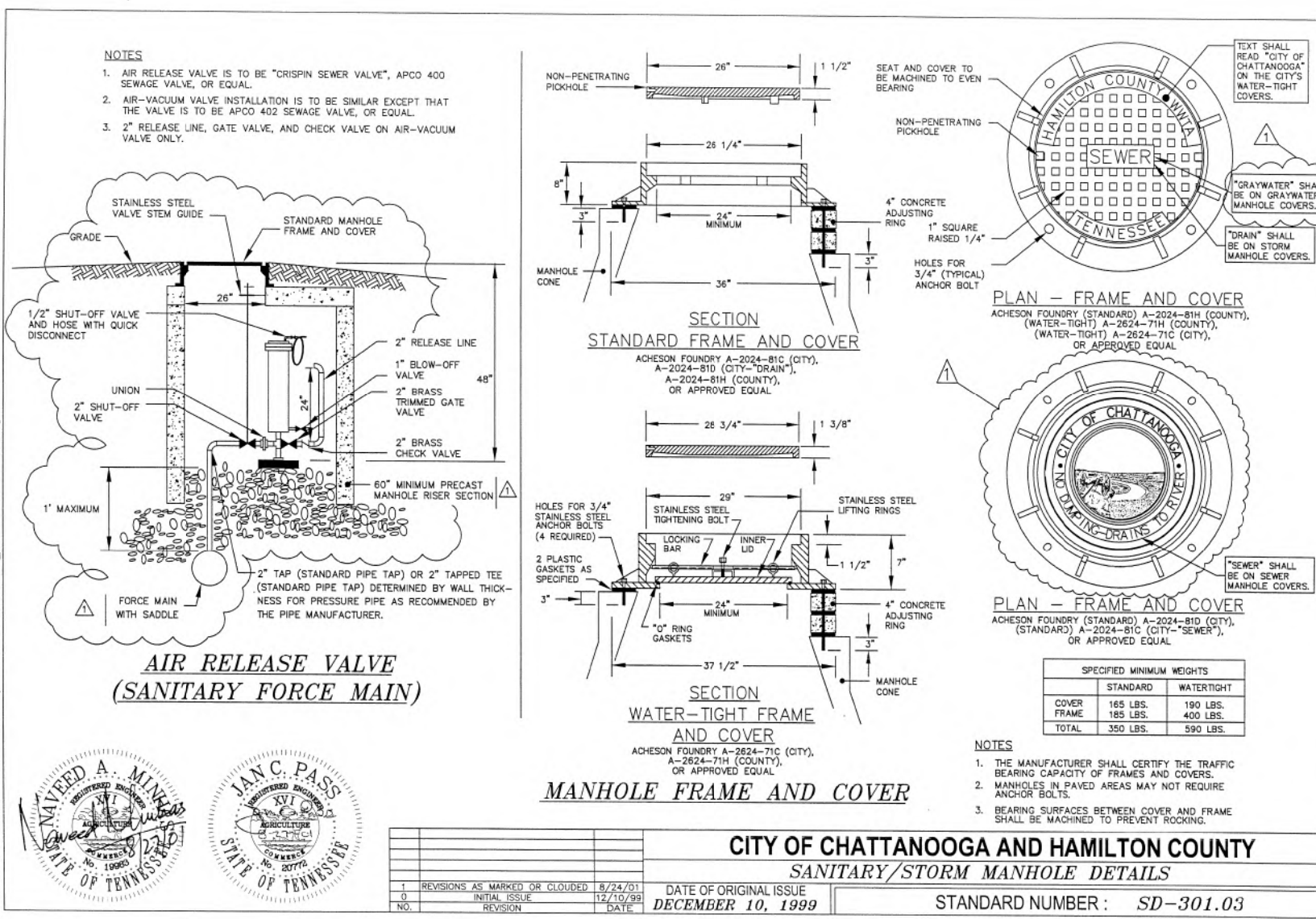
SHEET TITLE: CIVIL
**BYPASS PUMPING PLAN
 42-INCH INTERCEPTOR
 AND 15-INCH SEWER LINE**
 SHEET: G7



1
 C8 NTS

2
 C8 NTS

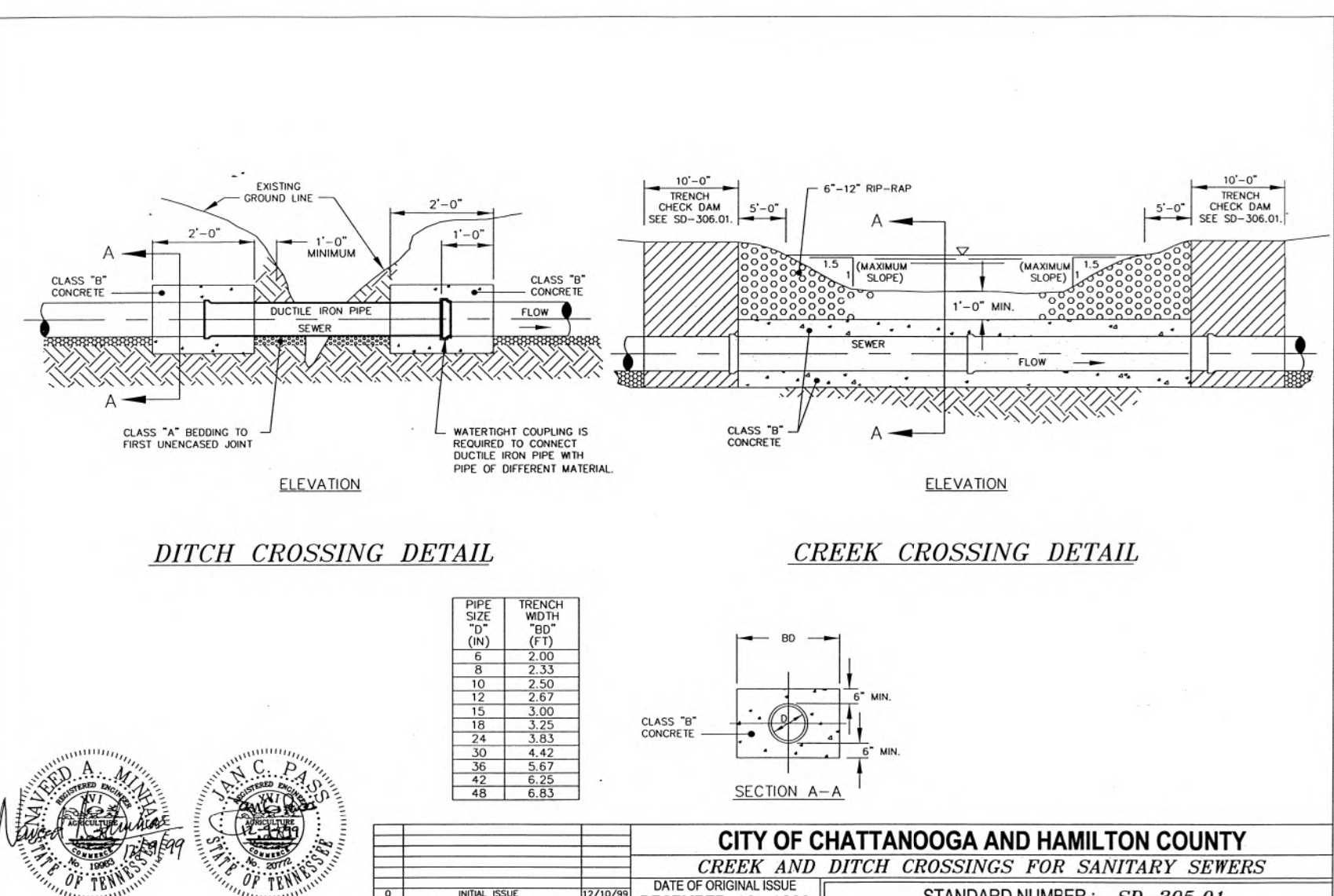
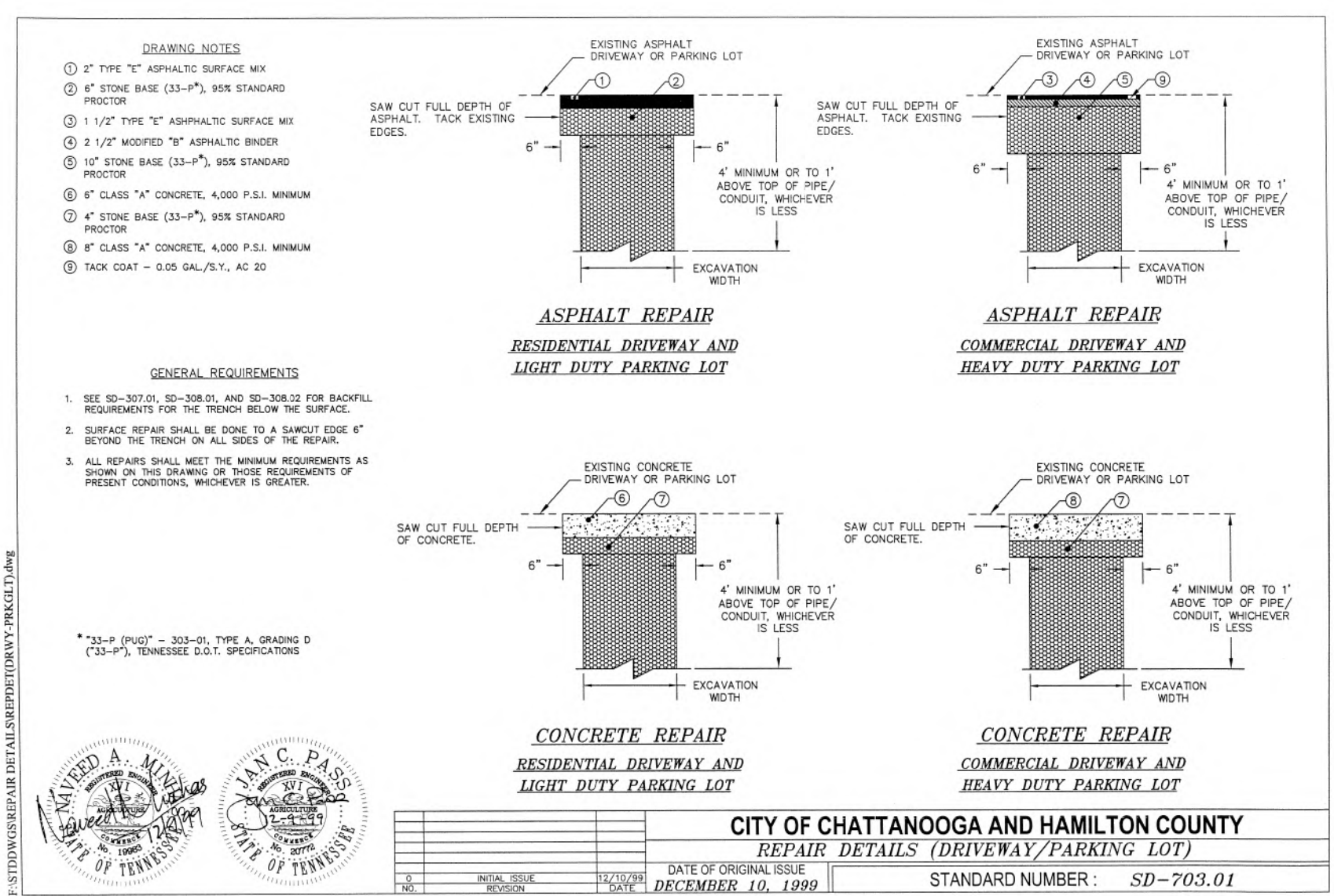
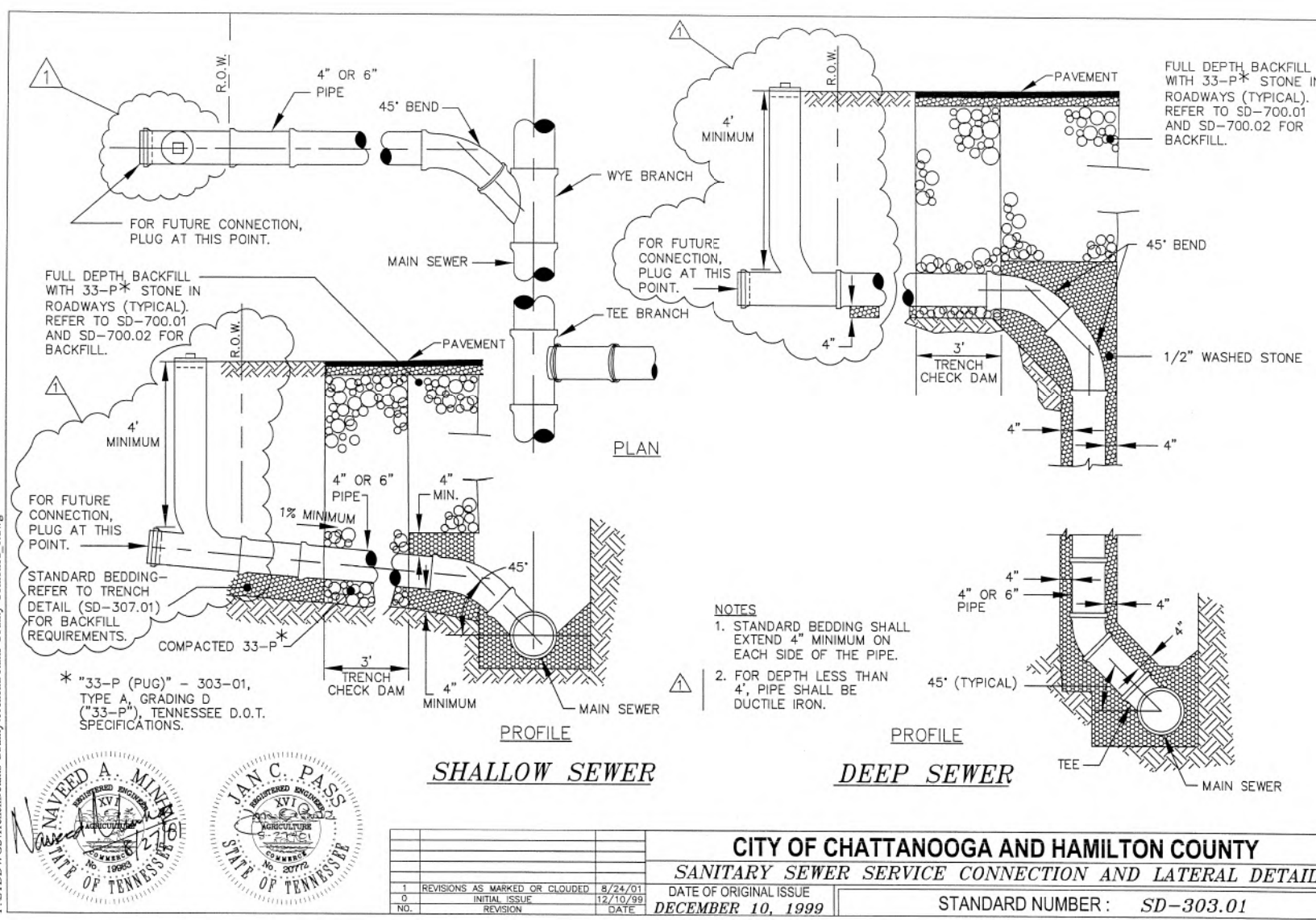
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5
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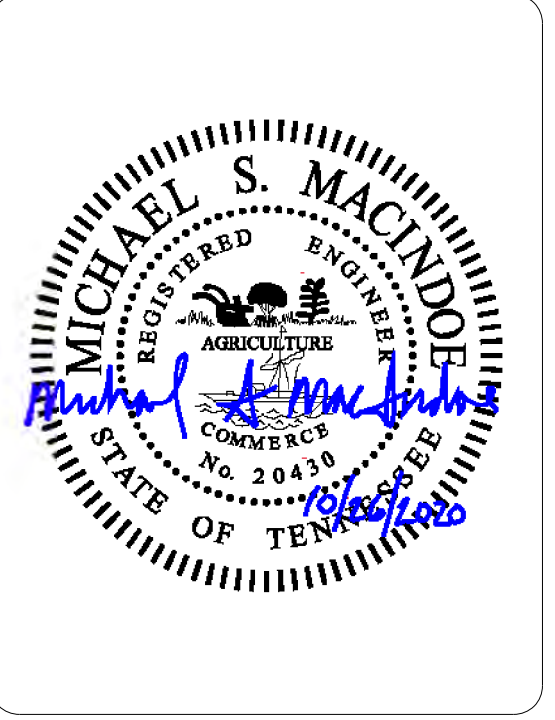
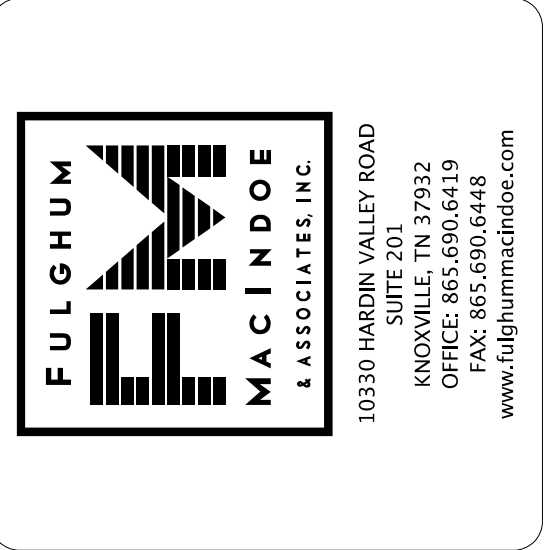
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 C8 NTS



7
 C8 NTS

8
 C8 NTS

9
 C8 NTS



RIVERVIEW PARK/CGCC
 CHRONIC SSO ELIMINATION
 CITY OF CHATTANOOGA, TN
 CONSENT DECREE PROGRAM

REV	DATE	REVISION DESCRIPTION
REV1	10/26/20	ISSUED FOR CONSTRUCTION
REV2	08/03/20	ISSUED FOR 90% REVIEW

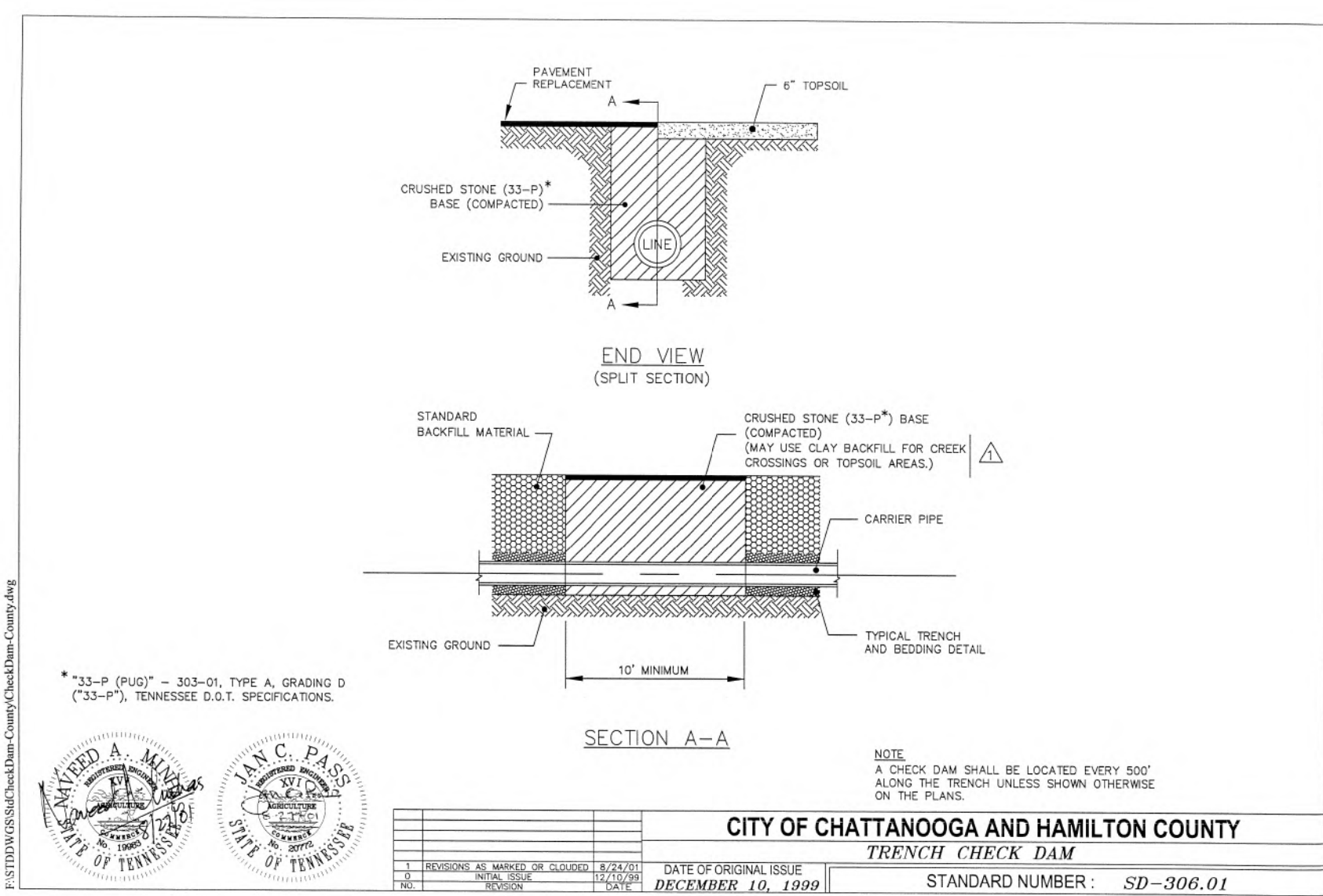
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 THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.

PROJECT NO: 649.001
 DATE: 10/26/2020
 DISC. LEAD: MSM
 DESIGNER: TAC
 CHECKER: SEE

SHEET TITLE: CIVIL
 STANDARD DETAILS

SHEET: G8

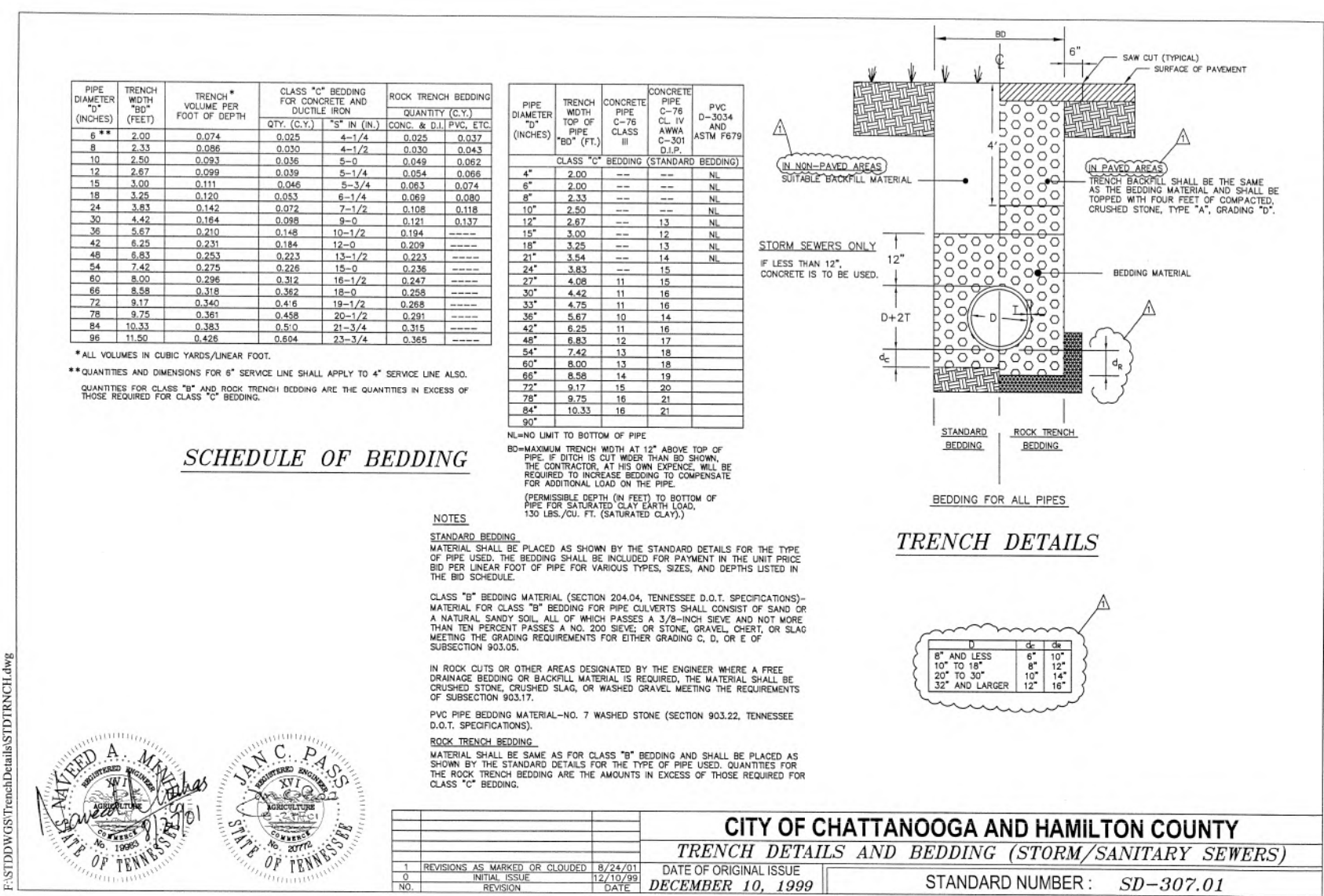
CREATED: 2/1/2020
 LAST SAVED: 7/29/2020
 BY: TAC
 PLOT DATE: 10/26/2020



CITY OF CHATTANOOGA AND HAMILTON COUNTY
TRENCH CHECK DAM

DATE OF ORIGINAL ISSUE: **DECEMBER 10, 1999**
STANDARD NUMBER: **SD-306.01**

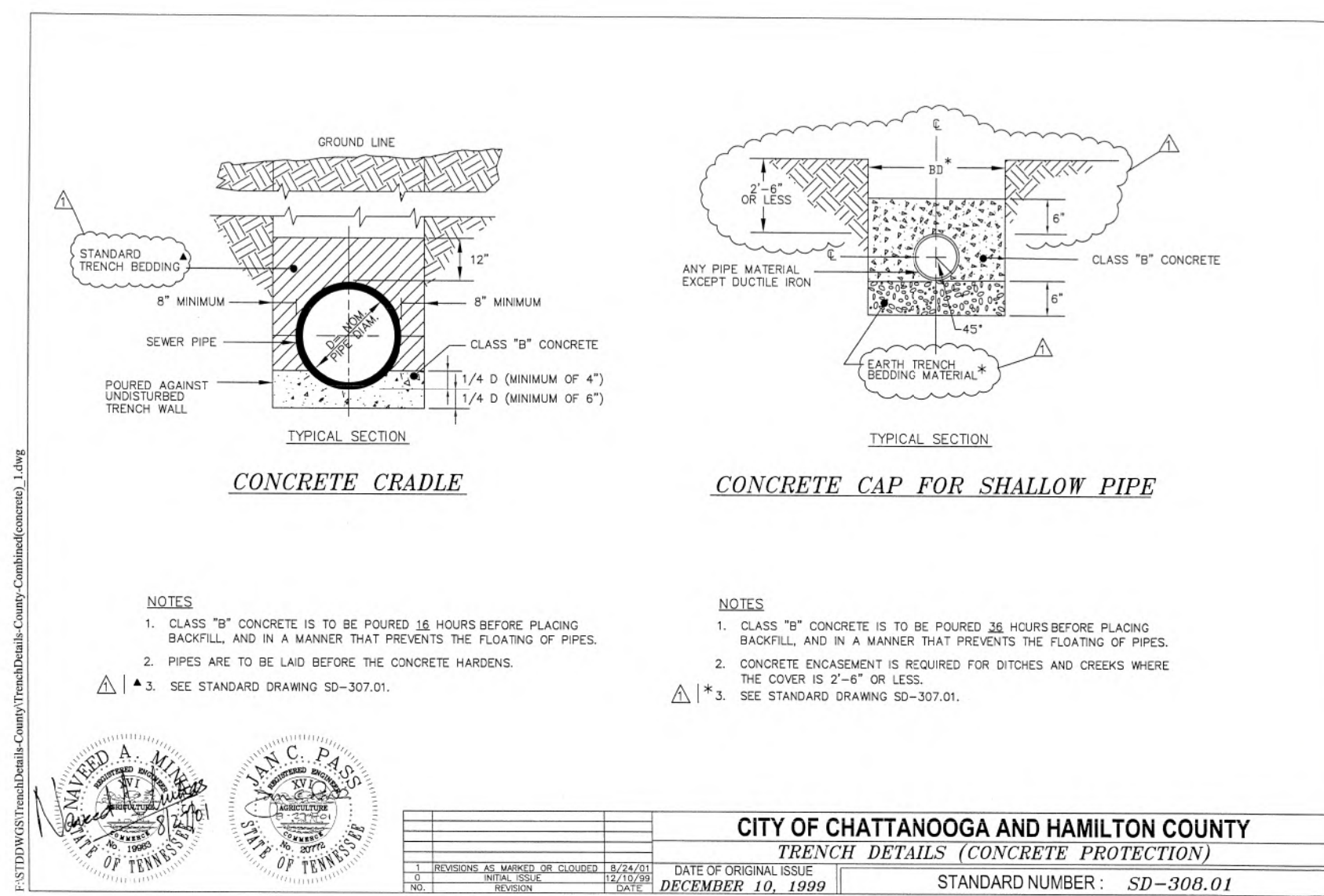
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G9 NTS



CITY OF CHATTANOOGA AND HAMILTON COUNTY
TRENCH DETAILS AND BEDDING (STORM/SANITARY SEWERS)

DATE OF ORIGINAL ISSUE: **DECEMBER 10, 1999**
STANDARD NUMBER: **SD-307.01**

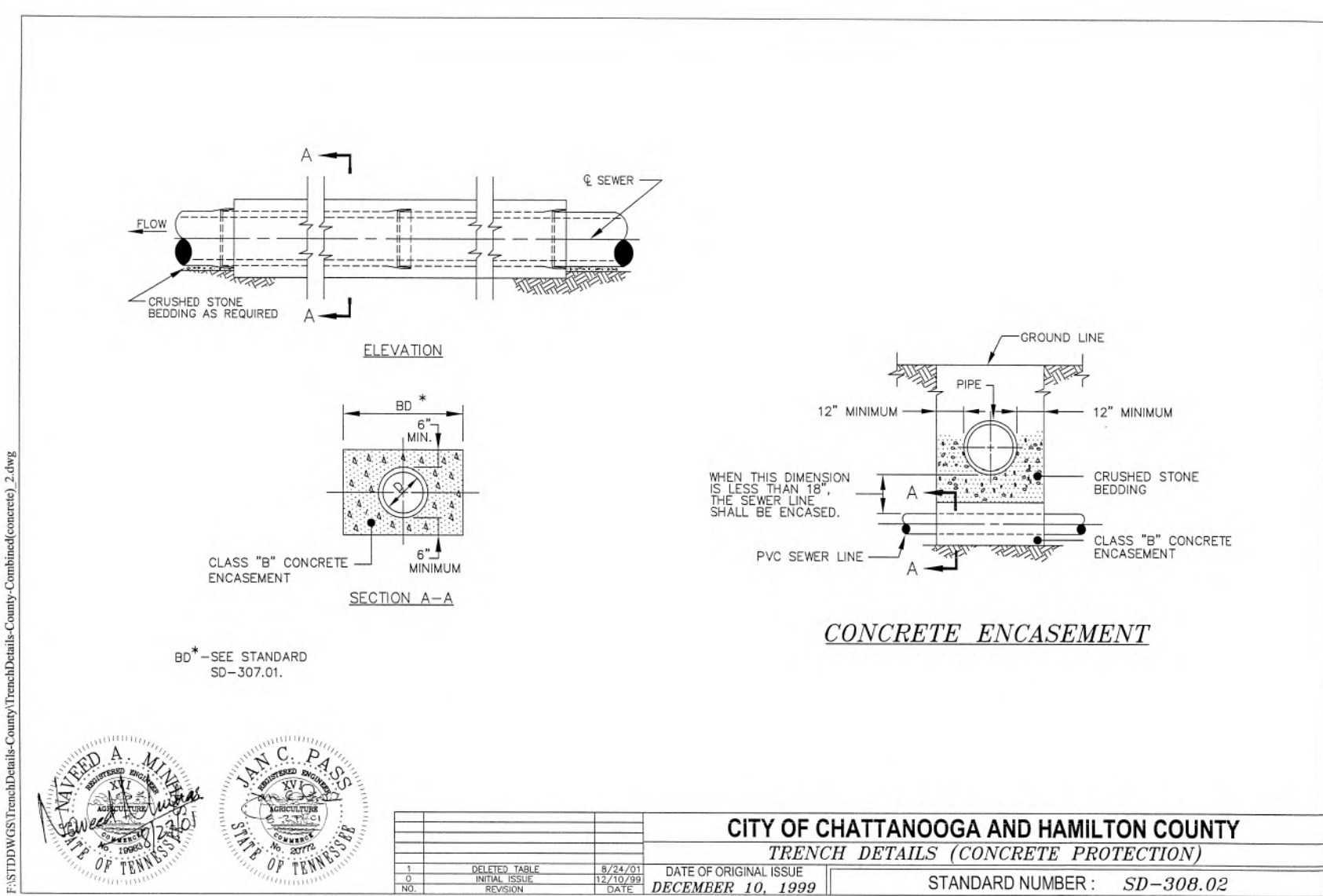
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G9 NTS



CITY OF CHATTANOOGA AND HAMILTON COUNTY
TRENCH DETAILS (CONCRETE PROTECTION)

DATE OF ORIGINAL ISSUE: **DECEMBER 10, 1999**
STANDARD NUMBER: **SD-308.01**

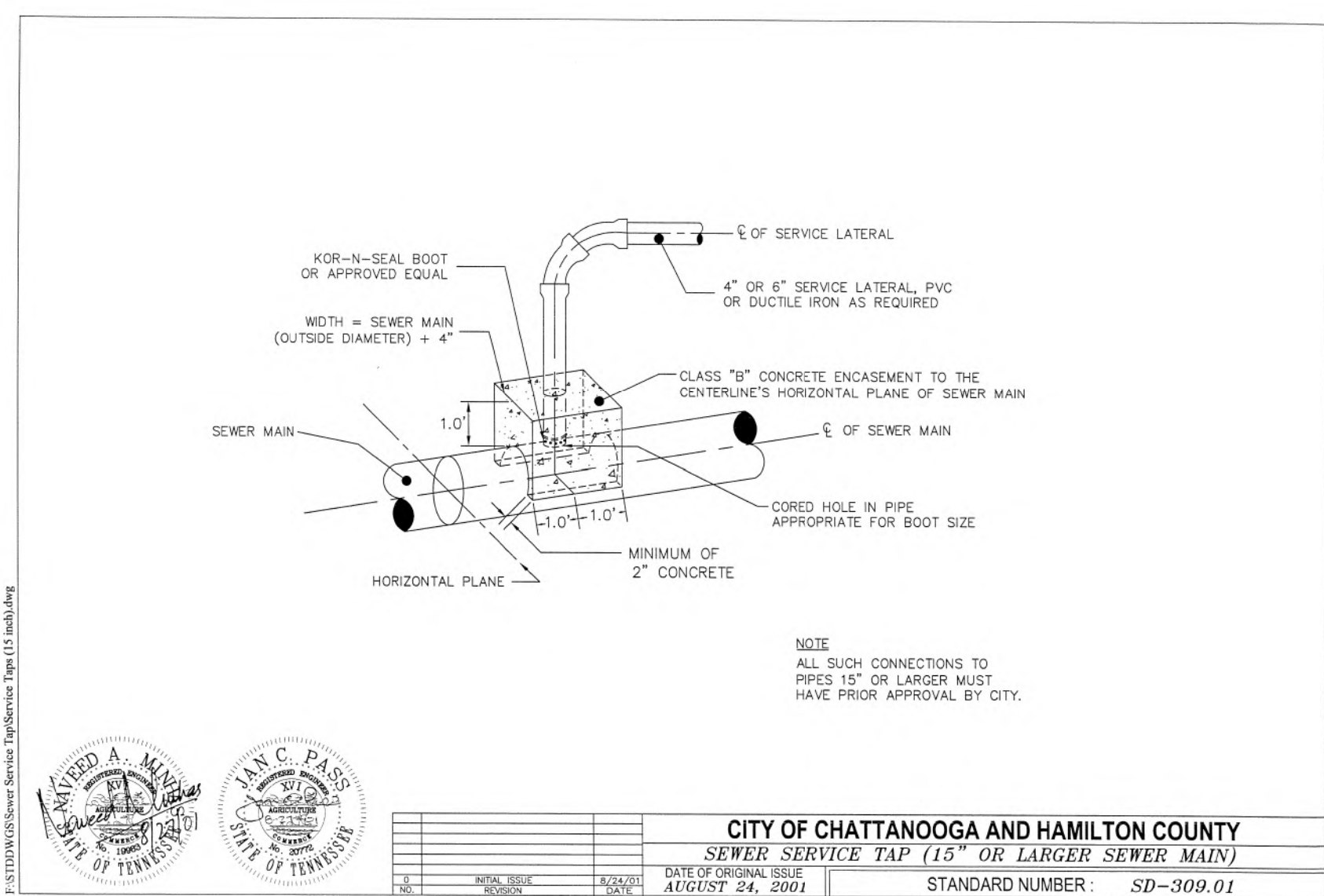
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CITY OF CHATTANOOGA AND HAMILTON COUNTY
TRENCH DETAILS (CONCRETE PROTECTION)

DATE OF ORIGINAL ISSUE: **DECEMBER 10, 1999**
STANDARD NUMBER: **SD-309.02**

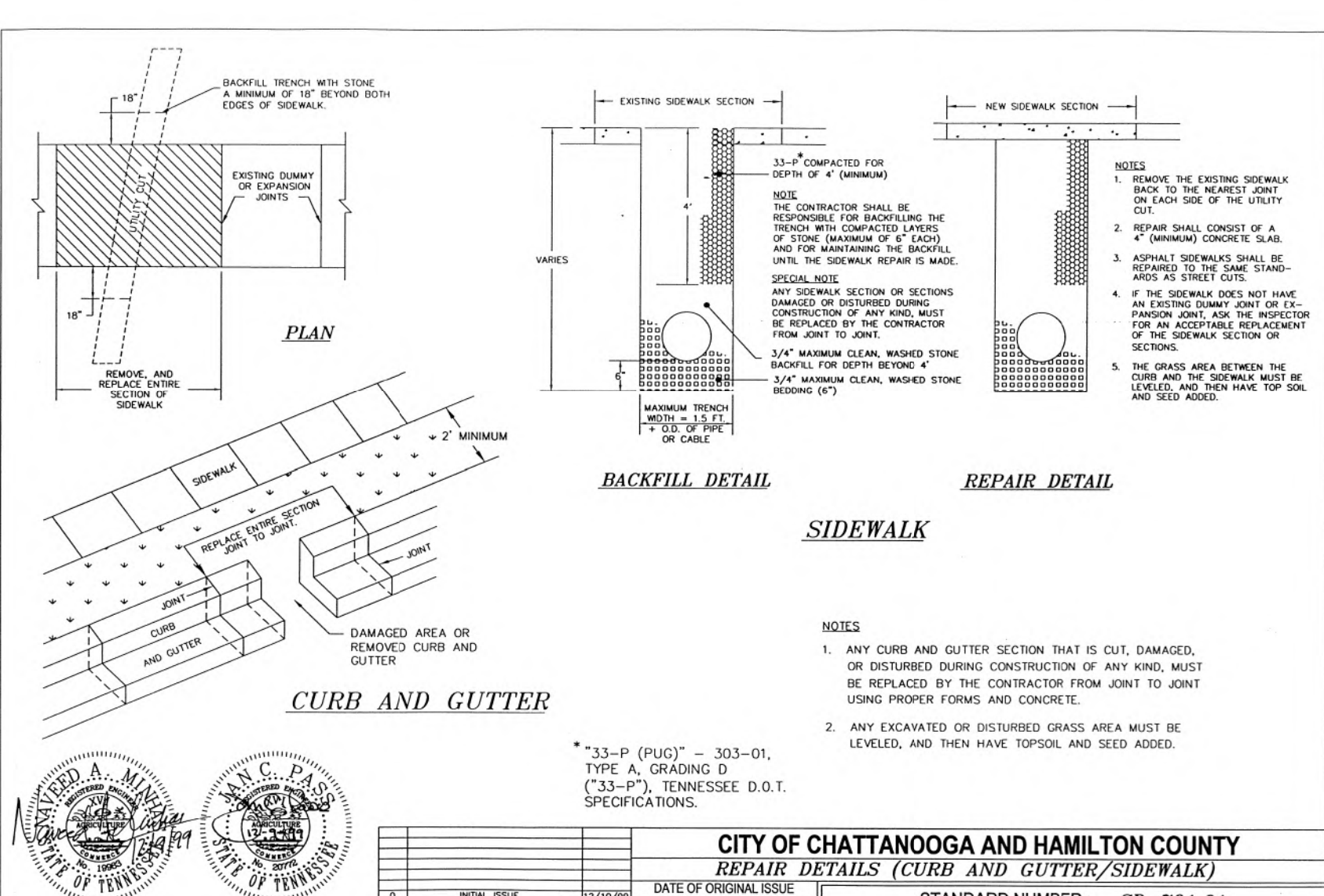
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G9 NTS



CITY OF CHATTANOOGA AND HAMILTON COUNTY
SEWER SERVICE TAP (15" OR LARGER SEWER MAIN)

DATE OF ORIGINAL ISSUE: **AUGUST 24, 2001**
STANDARD NUMBER: **SD-309.01**

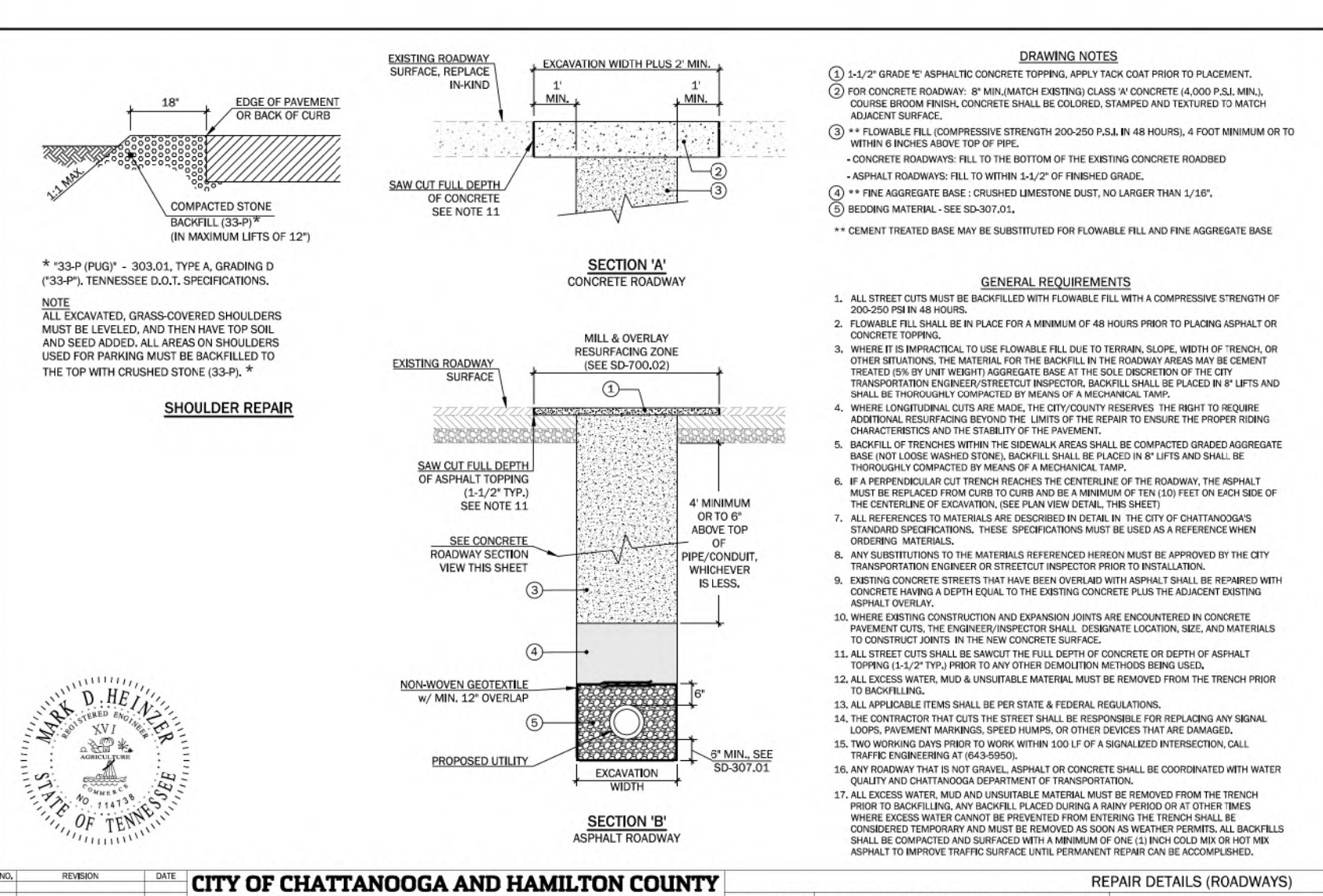
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G9 NTS



CITY OF CHATTANOOGA AND HAMILTON COUNTY
REPAIR DETAILS (CURB AND GUTTER/SIDEWALK)

DATE OF ORIGINAL ISSUE: **DECEMBER 10, 1999**
STANDARD NUMBER: **SD-701.01**

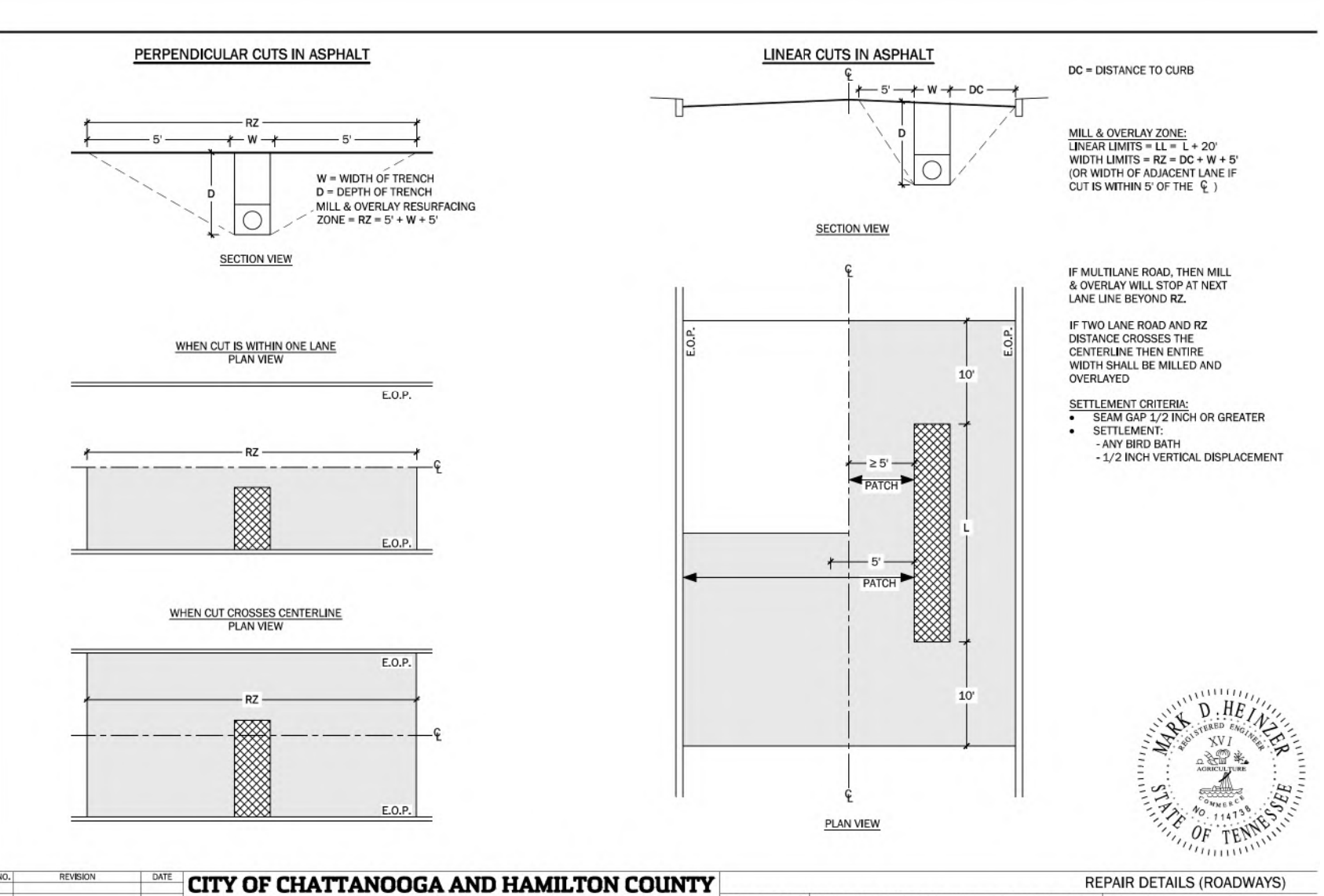
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G9 NTS



CITY OF CHATTANOOGA AND HAMILTON COUNTY
REPAIR DETAILS (ROADWAYS)

DATE OF ORIGINAL ISSUE: **MAR. 25, 2020**
STANDARD #: **SD-700.01**

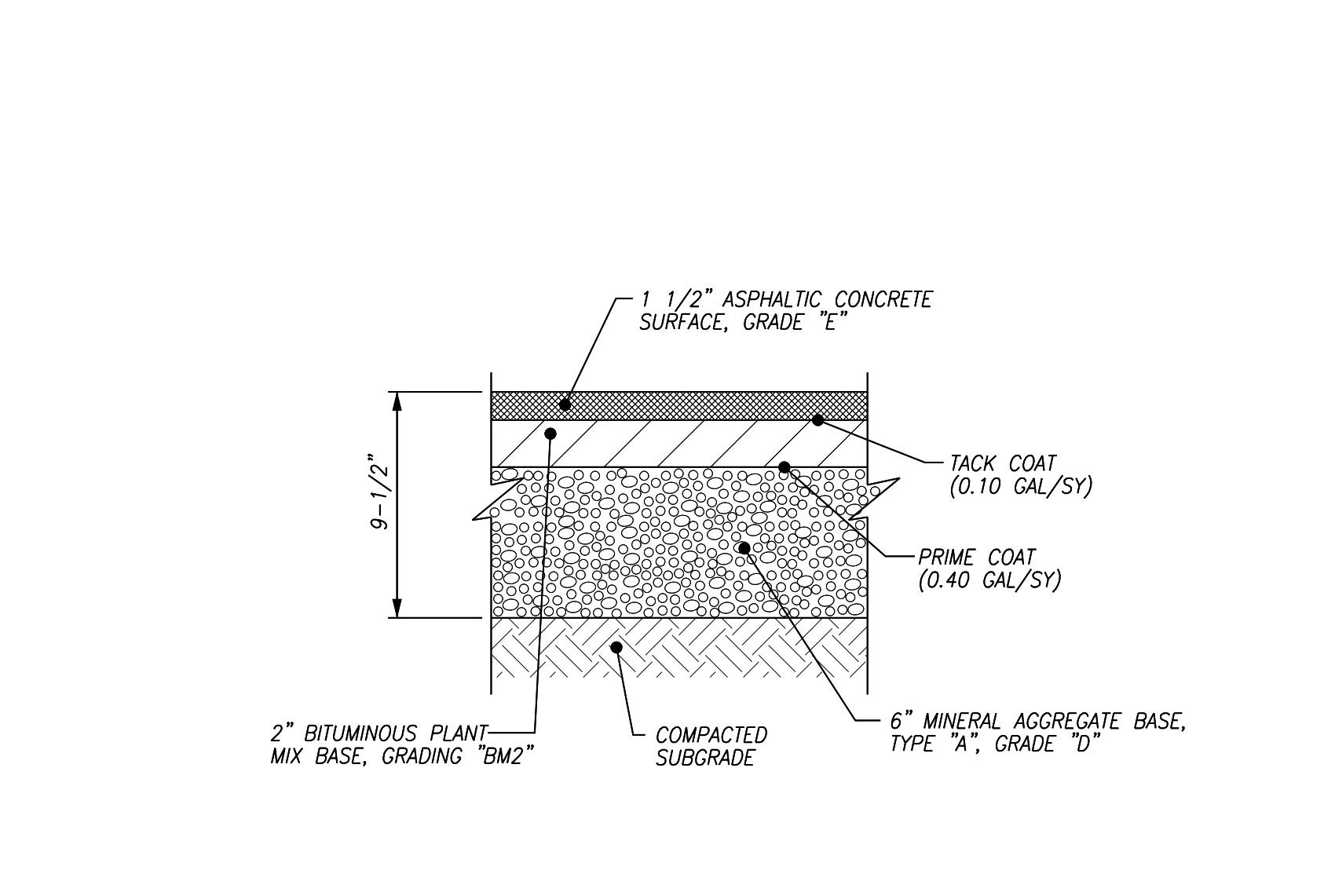
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G9 NTS



CITY OF CHATTANOOGA AND HAMILTON COUNTY
REPAIR DETAILS (ROADWAYS)

DATE OF ORIGINAL ISSUE: **MAR. 25, 2020**
STANDARD #: **SD-700.02**

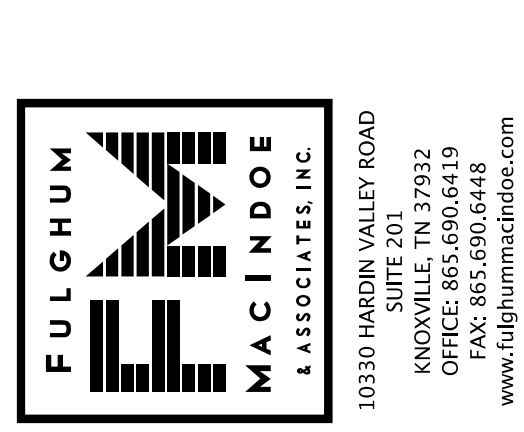
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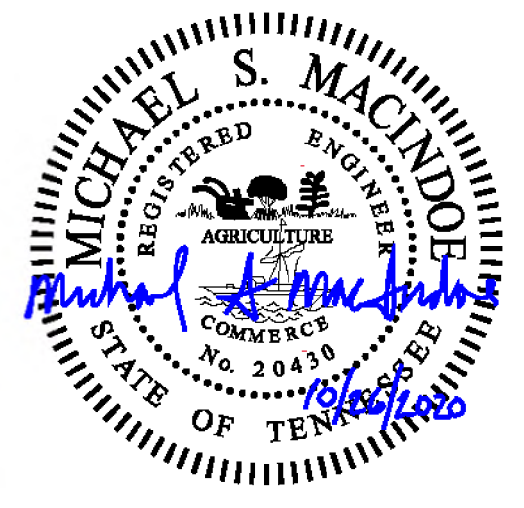
ACCESS ROAD PAVEMENT SECTION

DATE OF ORIGINAL ISSUE: **MAR. 25, 2020**
STANDARD #: **SD-700.03**

18
G9 NTS



SUITE 201
10330 HARDIN VALLEY ROAD
KNOXVILLE, TN 37932
PHONE: 865.690.6448
FAX: 865.690.6448
www.fulghummacindoe.com



RIVERVIEW PARK/CGCC
CHRONIC SSO ELIMINATION
CITY OF CHATTANOOGA, TN
CONSENT DECREE PROGRAM



REV	DATE	REVISION DESCRIPTION
REV1	10/26/20	ISSUED FOR CONSTRUCTION
REV0	08/03/20	ISSUED FOR 90% REVIEW

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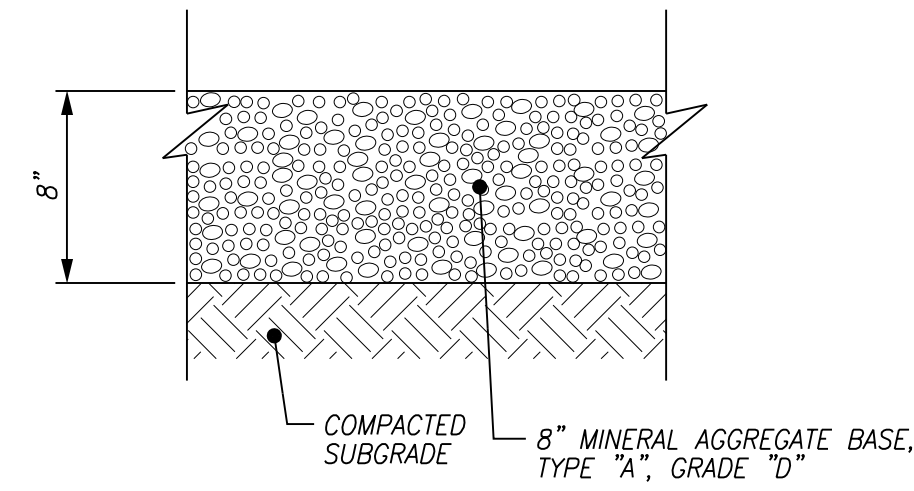
PROJECT NO: **649.001**
DATE: **10/26/2020**
DISC. LEAD: **MSM** DESIGNER: **TAC** CHECKER: **SEE**

SHEET TITLE: **CIVIL**

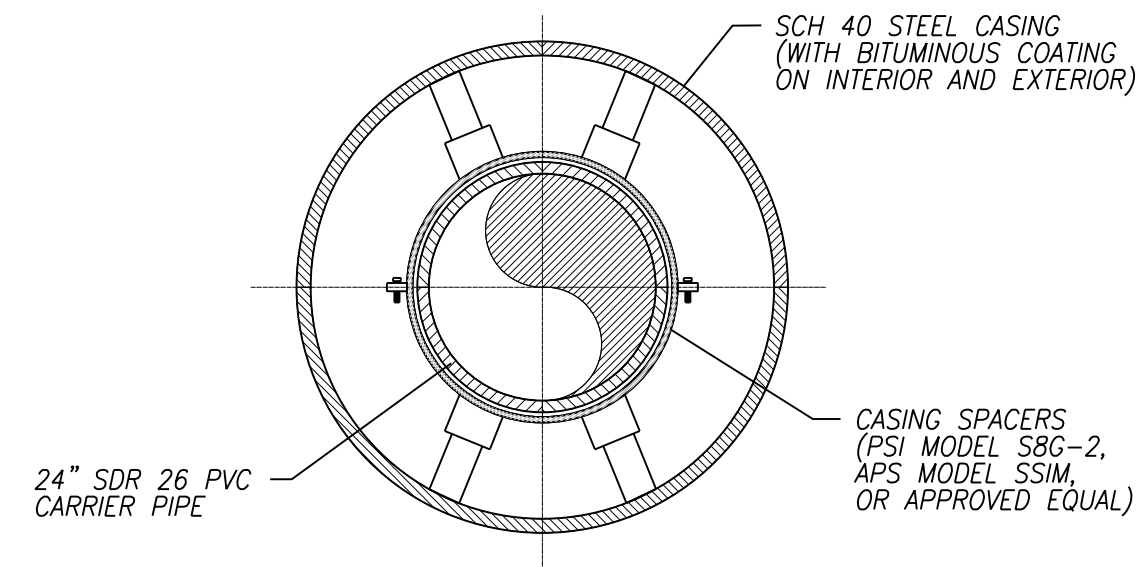
STANDARD DETAILS

SHEET **G9**

CREATED: 2/1/2020 BY: TAC PLOT DATE: 10/26/2020

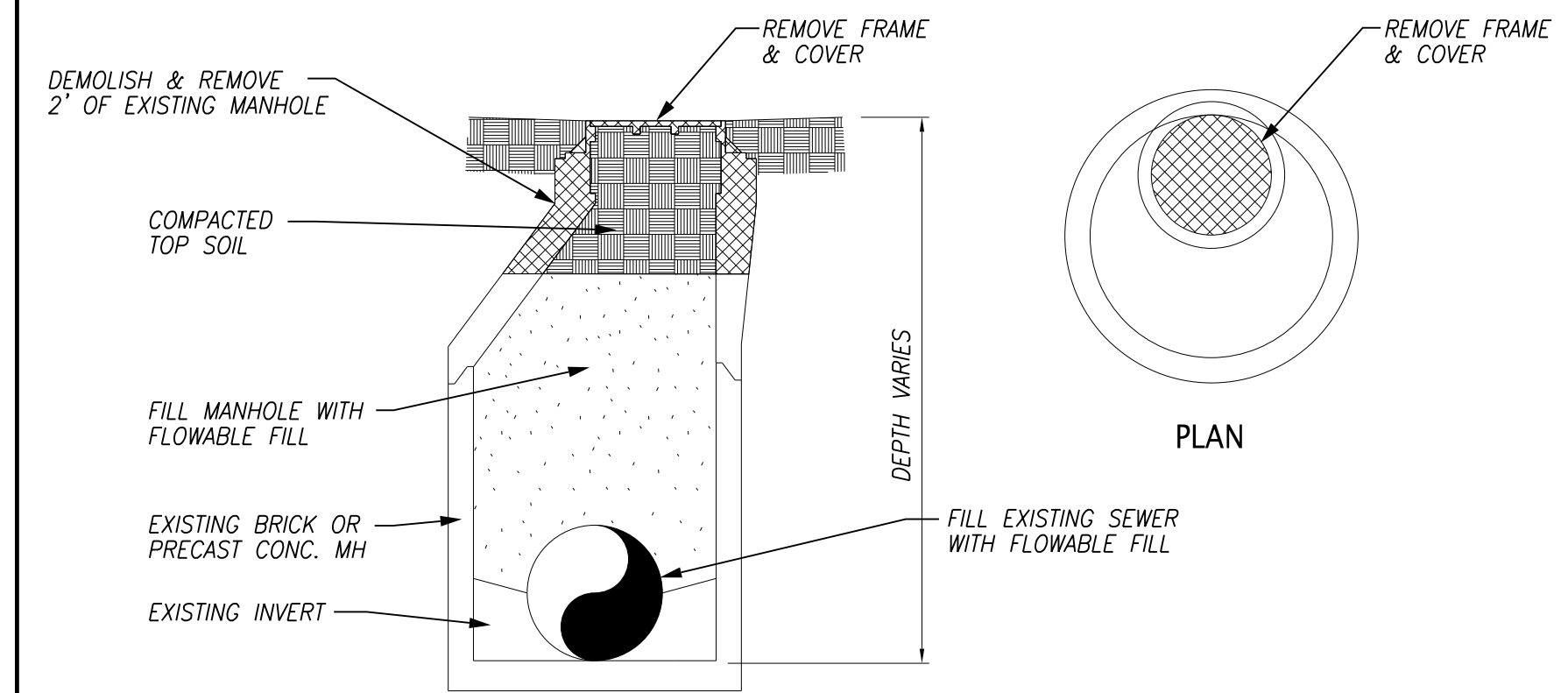


19 GRAVEL SECTION
G10 NTS

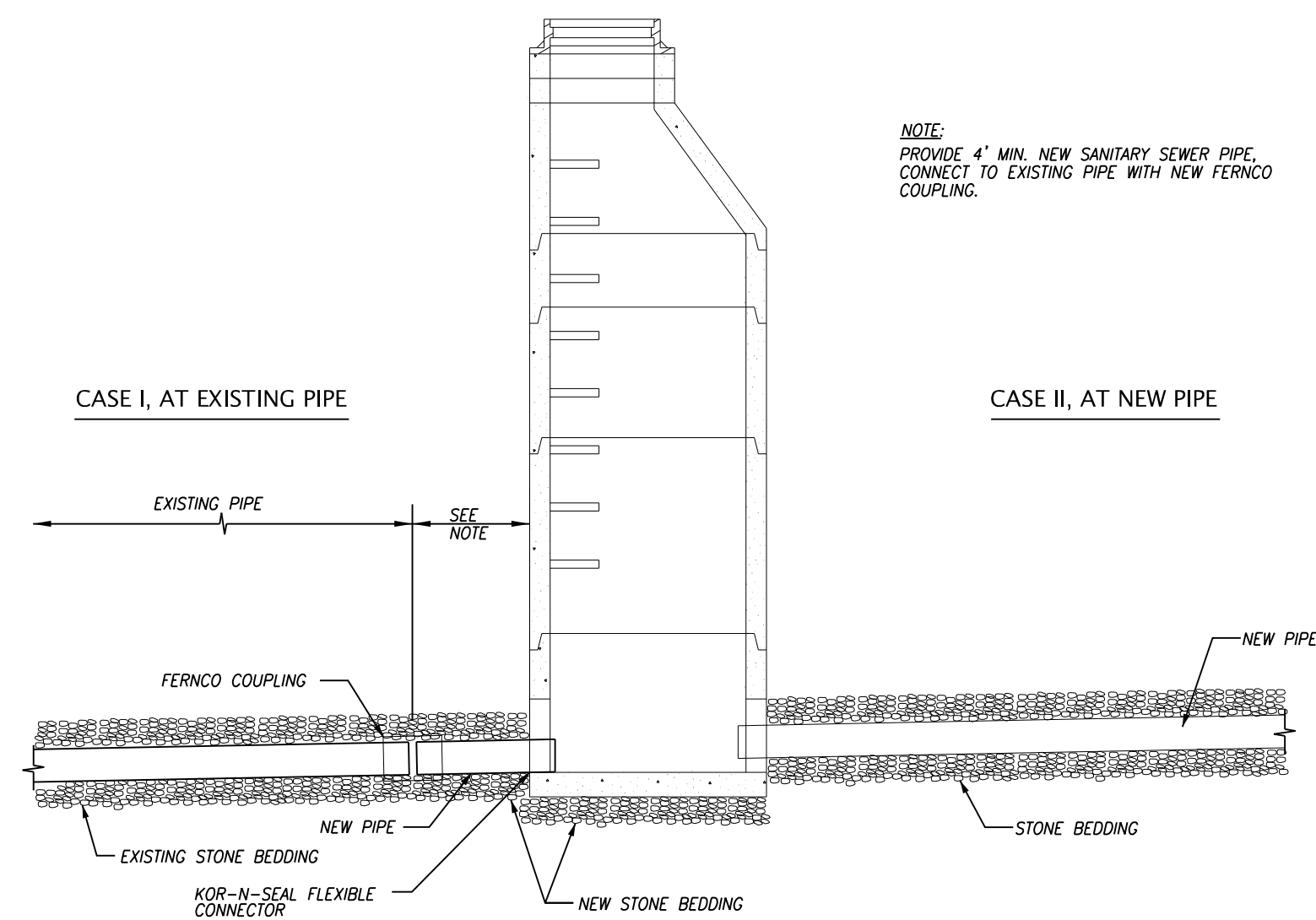


- NOTES:
- CARRIER PIPE SHALL BE MECHANICAL JOINT PIPE WITH FIELD-LOK GASKETS TO EXTEND A MINIMUM OF TWO PIPE JOINTS BEYOND THE END OF THE CASING.
 - INSTALL CASING SPACERS IN STRICT COMPLIANCE WITH THE WRITTEN MANUFACTURER'S INSTRUCTIONS.
 - PROVIDE CASING END SEALS IN ACCORDANCE WITH MANUFACTURE REQUIREMENTS.
 - CONTRACTOR TO CONFIRM THAT ALL CASING SPACERS WILL FIT INSIDE OF SPECIFIED STEEL CASING AS SHOWN ON THE PLANS PRIOR TO ORDERING MATERIALS.
 - SPACERS SHALL BE SPACED EVENLY AT NO GREATER THAN 6 FEET APART

20 CASING AND SPACER DETAIL
G10 NTS



21 MANHOLE ABANDONMENT DETAIL
G10 NTS



22 DETAIL AT NEW MANHOLE
G10 NTS

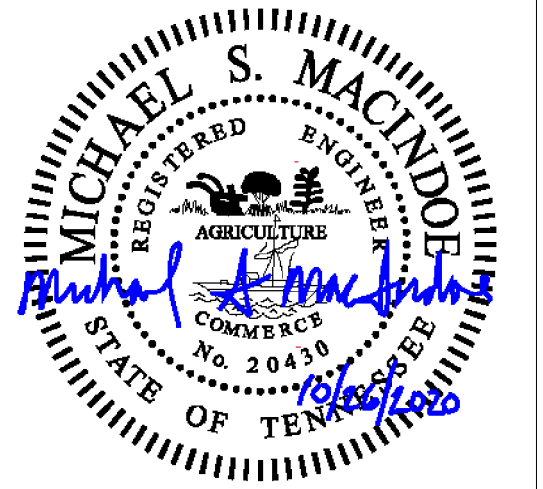
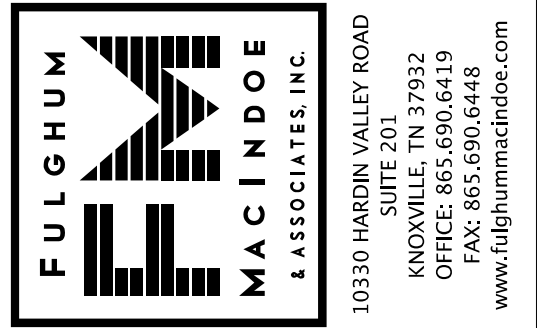
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RIVERVIEW PARK/CGCC
CHRONIC SSO ELIMINATION
CITY OF CHATTANOOGA, TN
CONSENT DECREE PROGRAM



REV	DATE	REVISION DESCRIPTION
REV1	10/26/20	ISSUED FOR CONSTRUCTION
REV0	08/03/20	ISSUED FOR 90% REVIEW

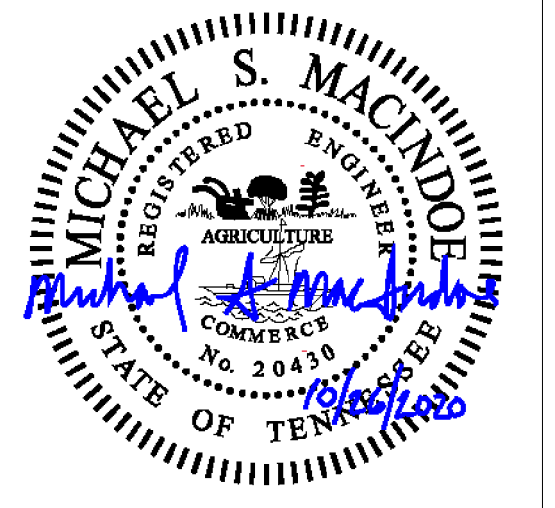
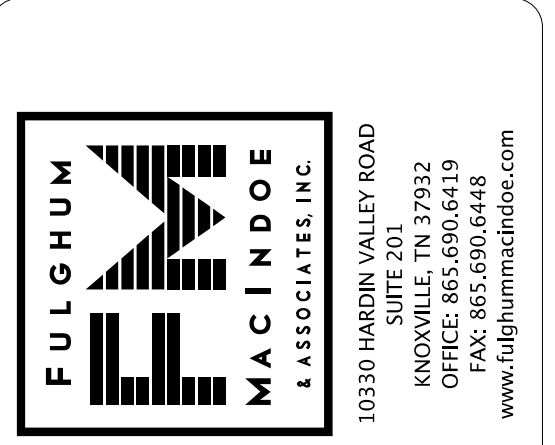
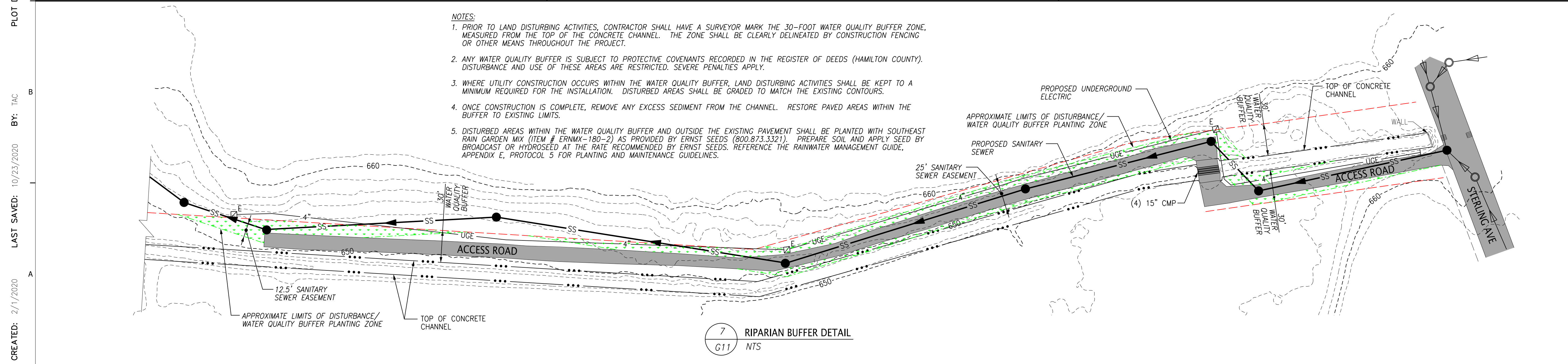
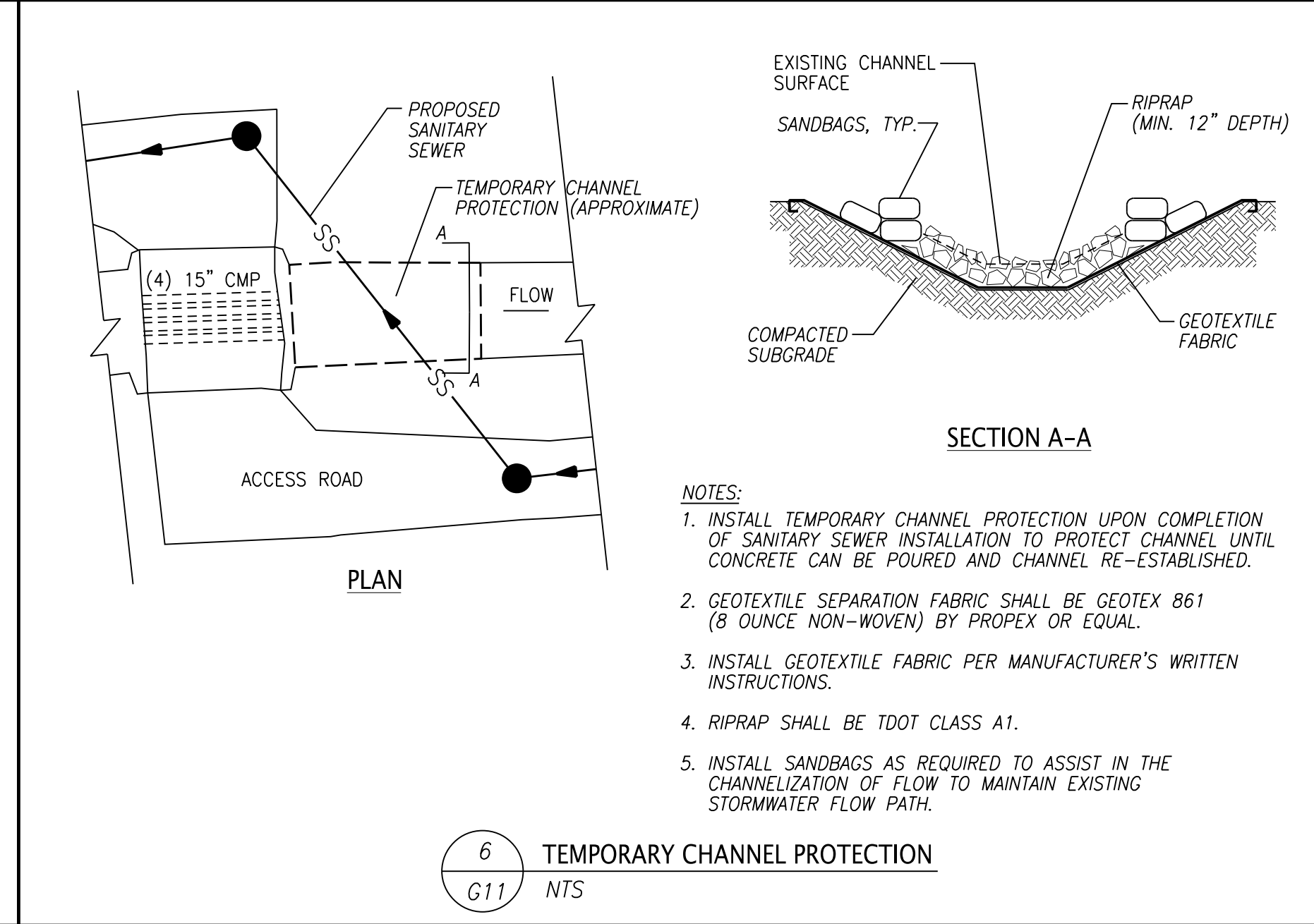
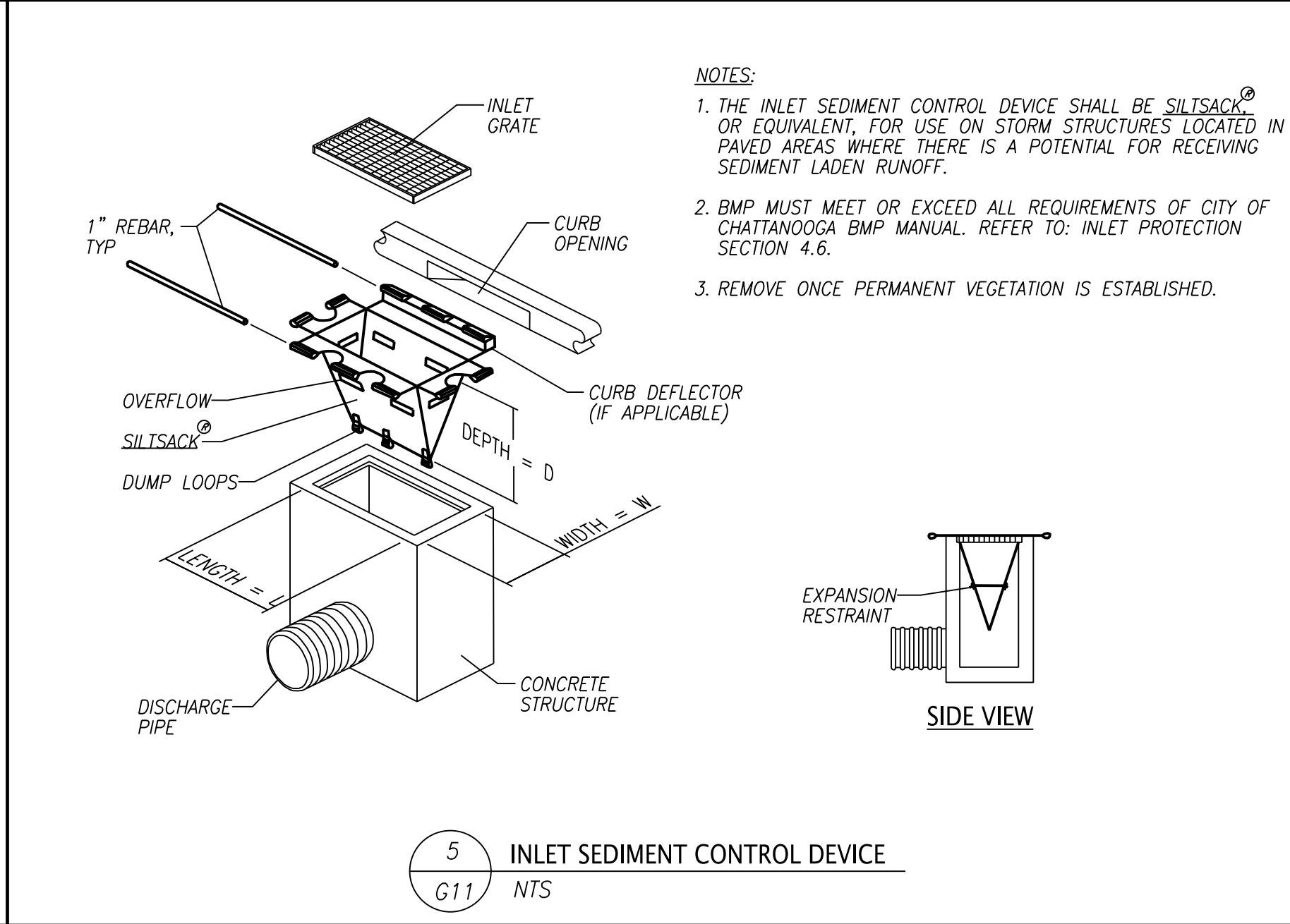
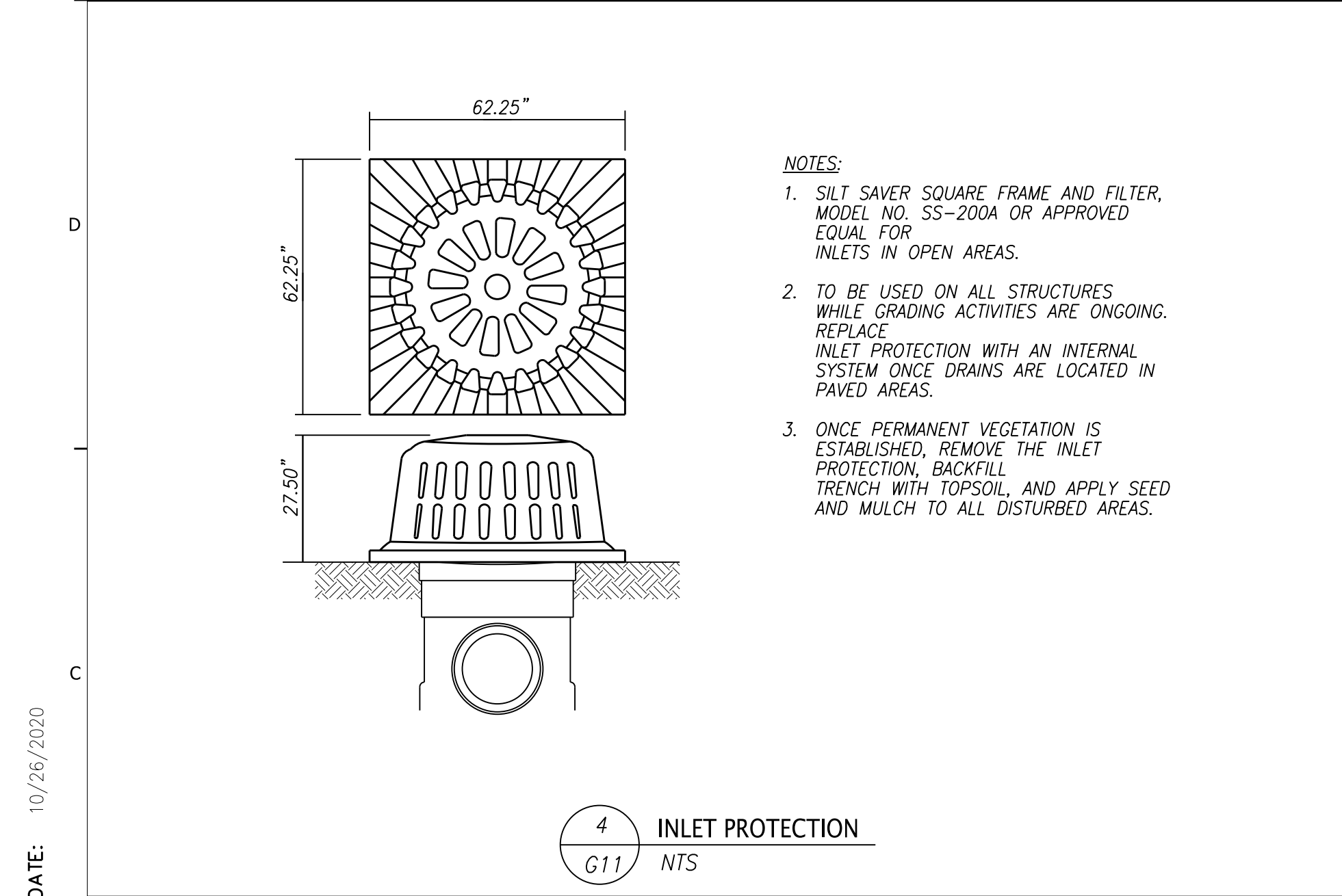
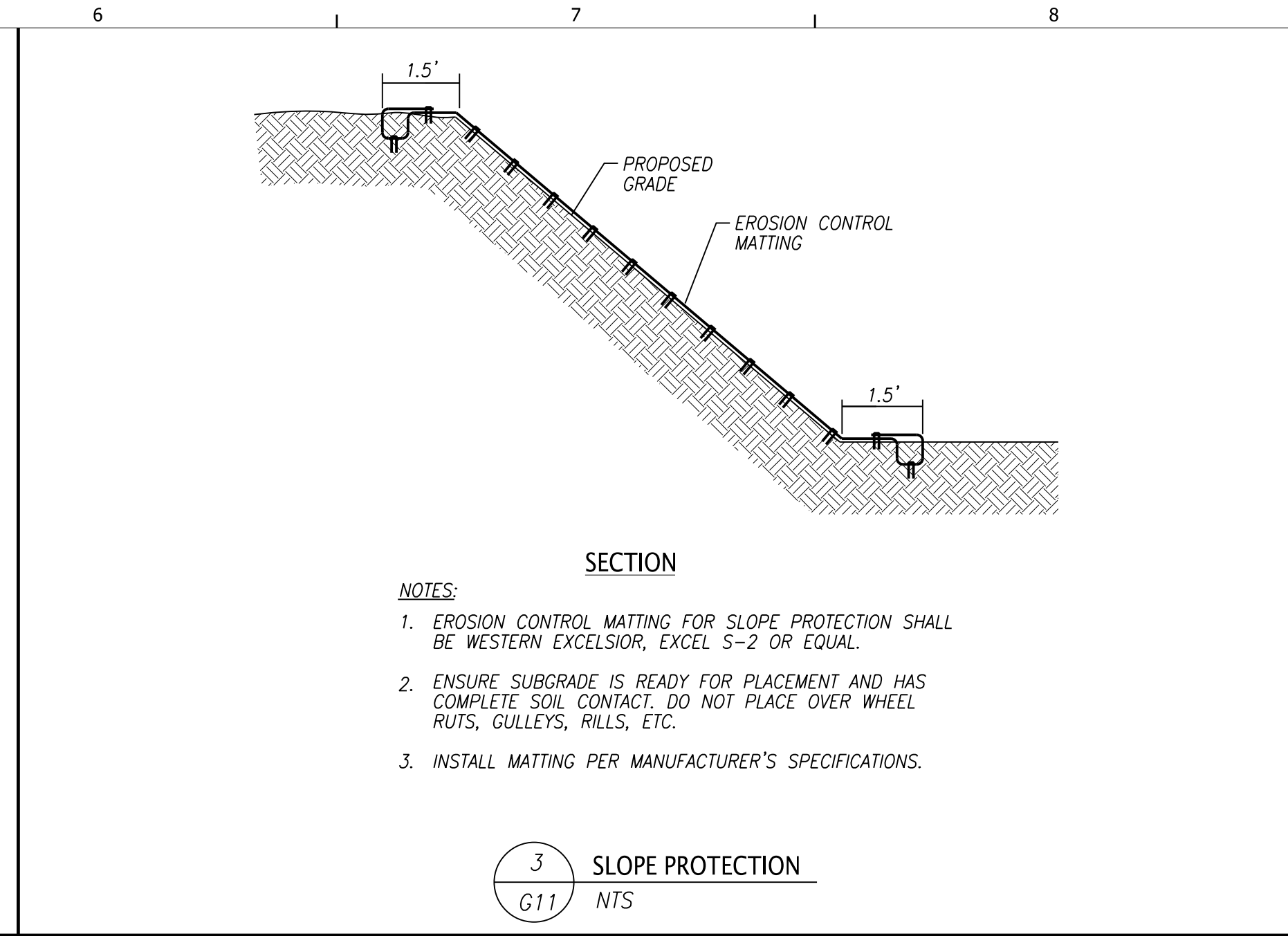
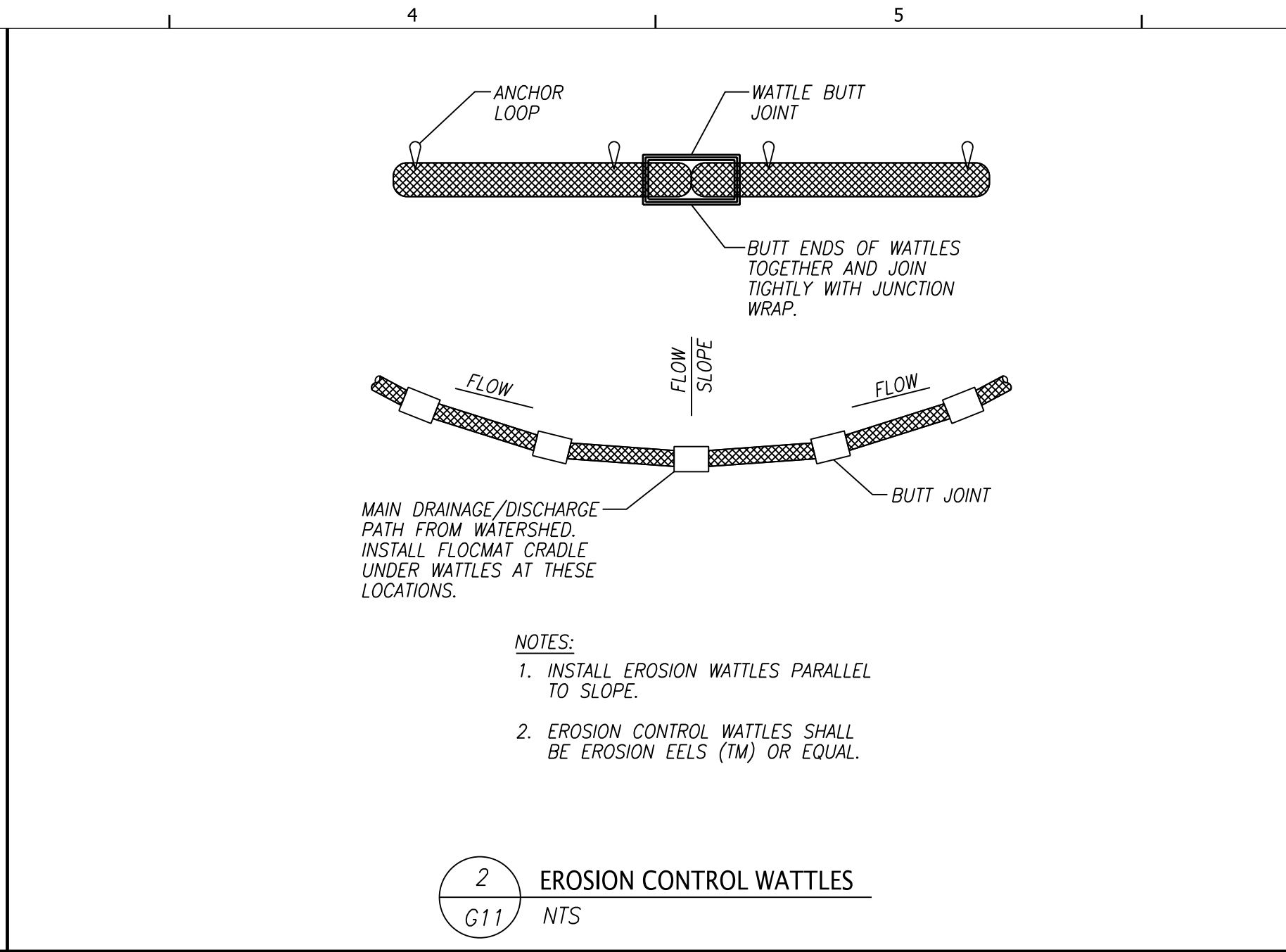
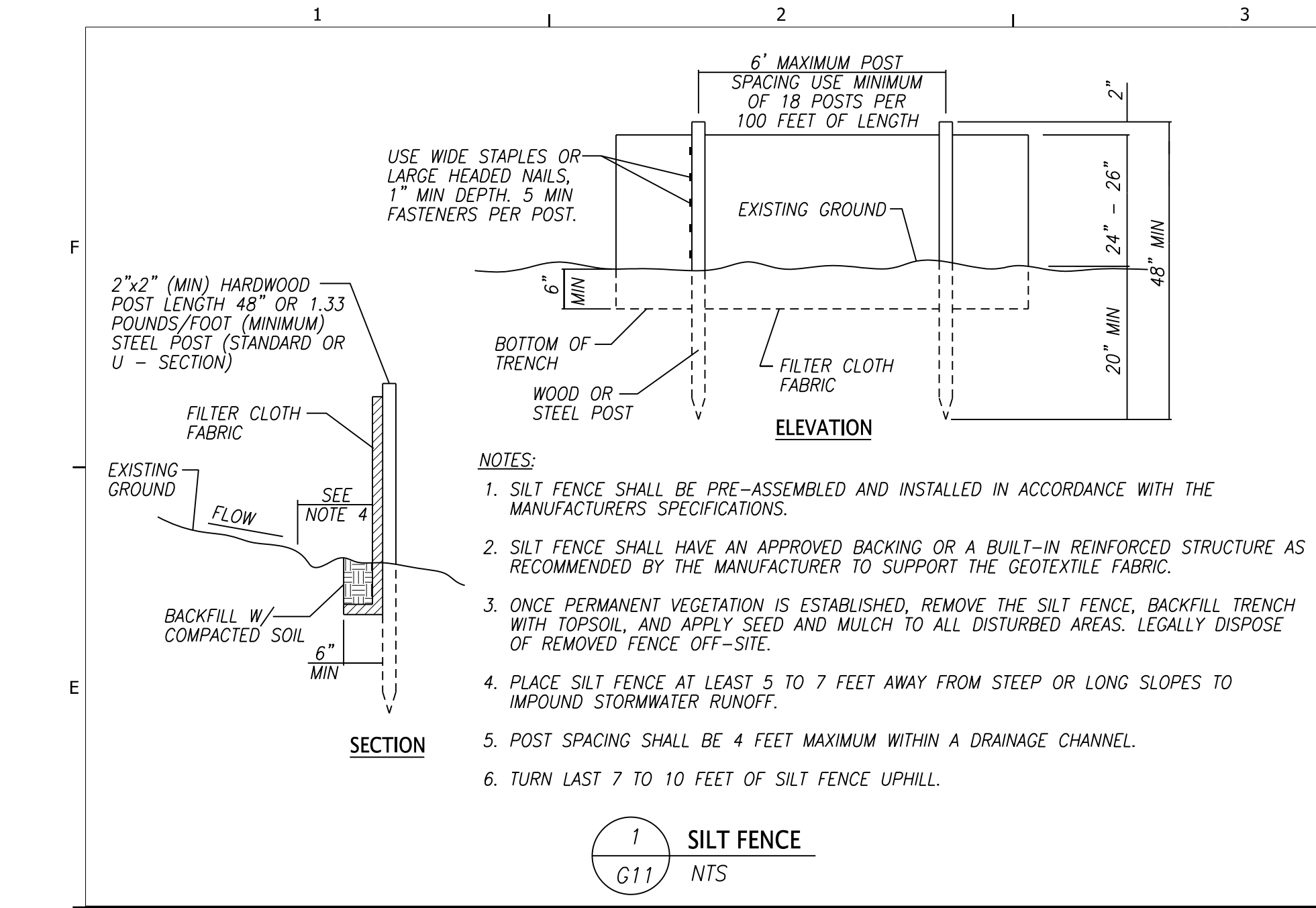
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PROJECT NO: 649.001
DATE: 10/26/2020
DISC. LEAD: MSM DESIGNER: TAC CHECKER: SEE
SHEET TITLE CIVIL

STANDARD DETAILS

SHEET G10

CREATED: 2/1/2020 LAST SAVED: 7/31/2020 BY: TAC PLOT DATE: 10/26/2020



RIVERVIEW PARK/CGCC
CHRONIC SSO ELIMINATION
CITY OF CHATTANOOGA, TN
CONSENT DECREE PROGRAM

REV	DATE	REVISION DESCRIPTION
REV1	10/26/20	ISSUED FOR CONSTRUCTION
REV0	08/03/20	ISSUED FOR 90% REVIEW

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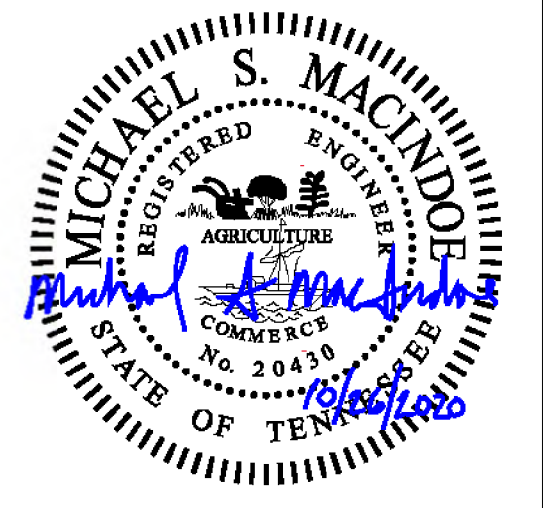
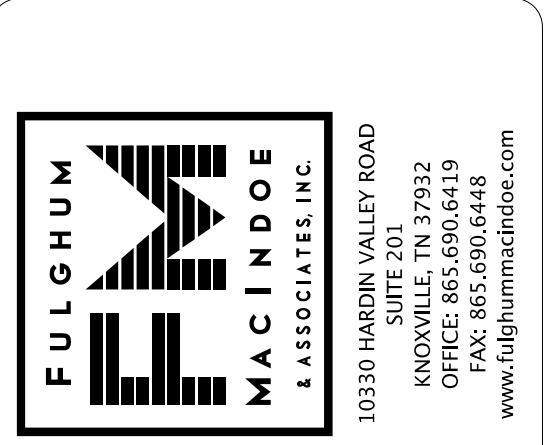
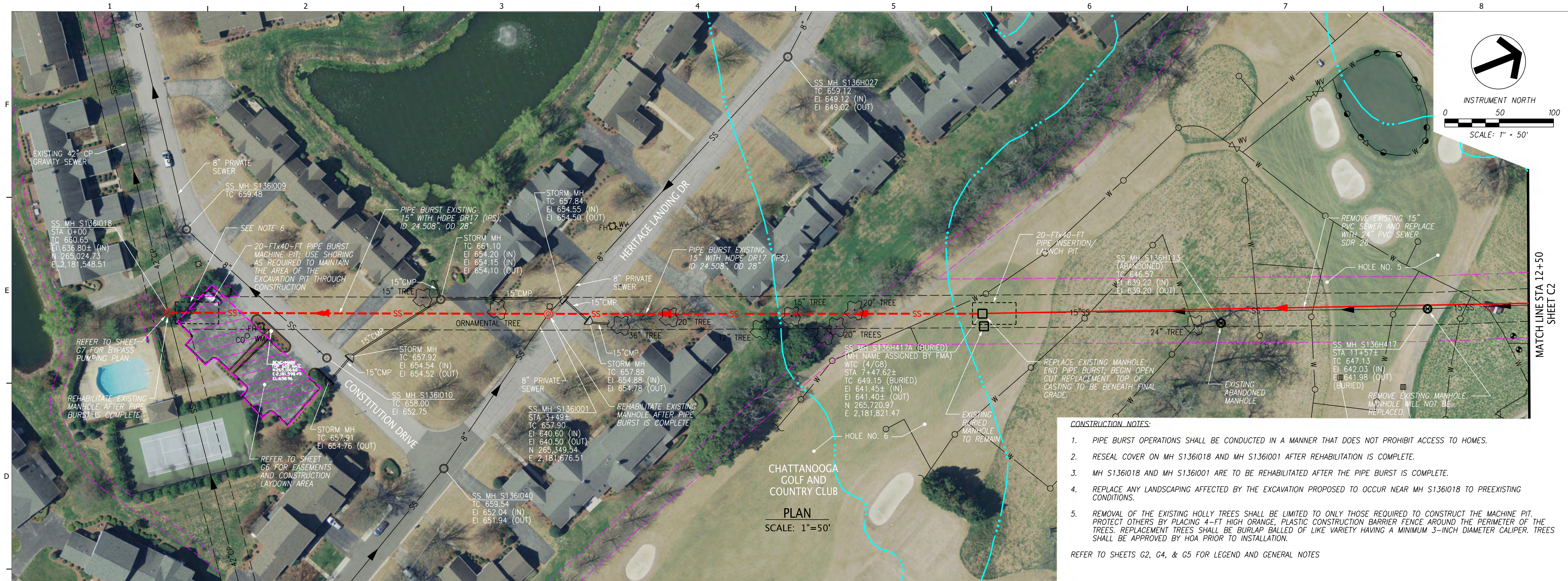
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DATE: 10/26/2020
DISC. LEAD: MSM
DESIGNER: TAC
CHECKER: SEE

SHEET TITLE: CIVIL

EROSION CONTROL DETAILS

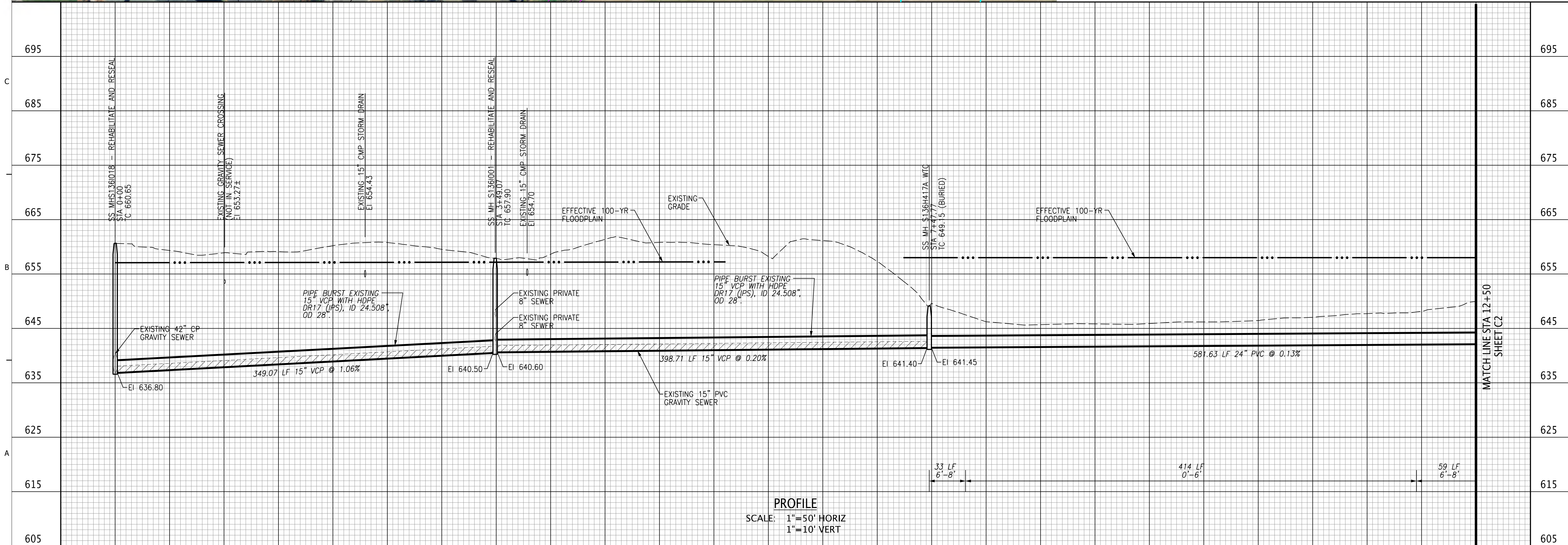
SHEET: G11

CREATED: 2/1/2020
LAST SAVED: 10/23/2020
BY: TAC
PLOT DATE: 10/26/2020



RIVERVIEW PARK/CGCC
 CHRONIC SSO ELIMINATION
 CITY OF CHATTANOOGA, TN
 CONSENT DECREE PROGRAM

CREATED: 2/1/2020
 LAST SAVED: 10/23/2020
 BY: TAC
 PLOT DATE: 10/26/2020



REV	DATE	REVISION DESCRIPTION
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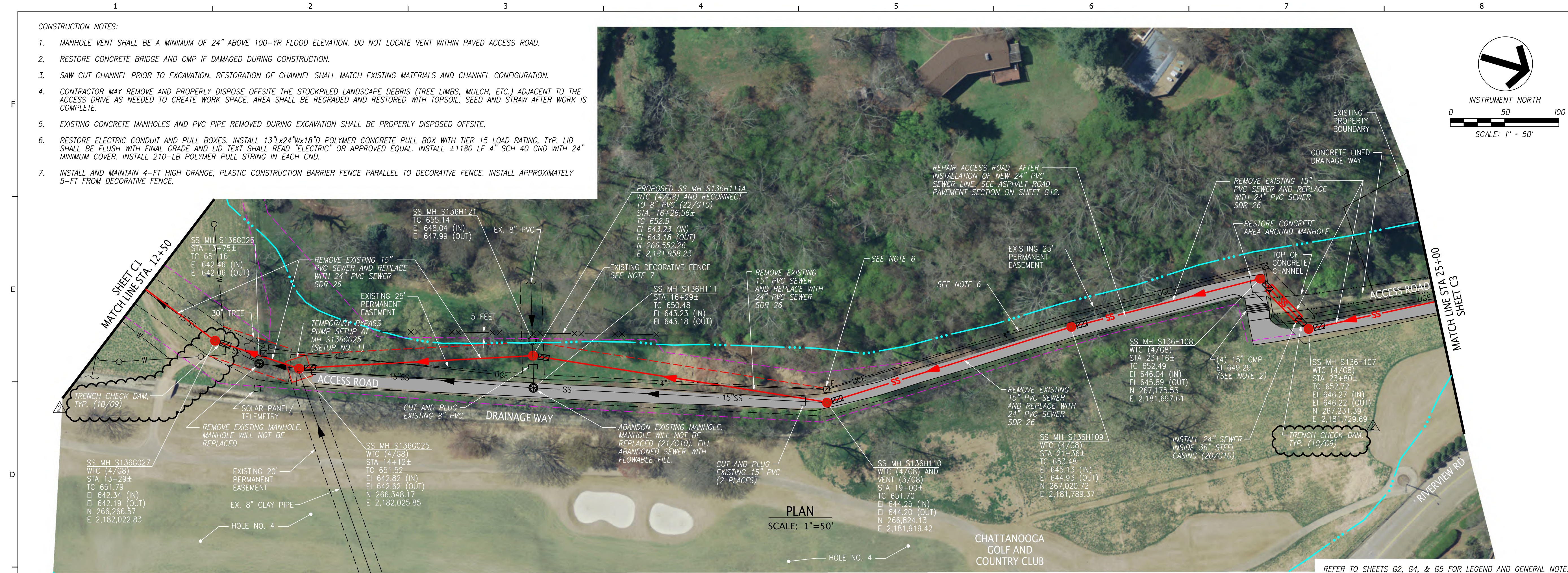
PROJECT NO: 649.001
 DATE: 10/26/2020
 DISC. LEAD: MSM
 DESIGNER: TAC
 CHECKER: SEE

SHEET TITLE: CIVIL

PLAN AND PROFILE
 STATION 0+00 - STATION 12+50

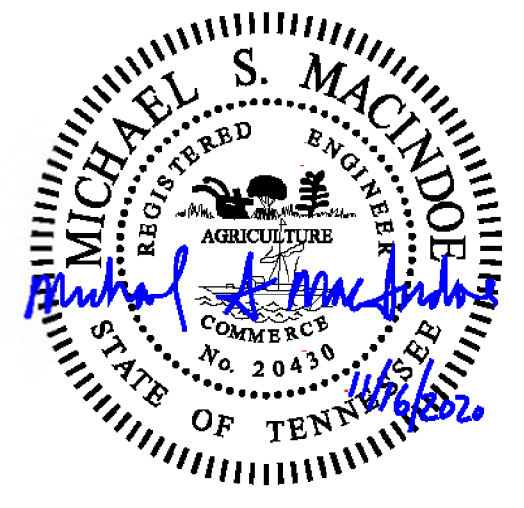
SHEET: C1

- CONSTRUCTION NOTES:
1. MANHOLE VENT SHALL BE A MINIMUM OF 24" ABOVE 100-YR FLOOD ELEVATION. DO NOT LOCATE VENT WITHIN PAVED ACCESS ROAD.
 2. RESTORE CONCRETE BRIDGE AND CMP IF DAMAGED DURING CONSTRUCTION.
 3. SAW CUT CHANNEL PRIOR TO EXCAVATION. RESTORATION OF CHANNEL SHALL MATCH EXISTING MATERIALS AND CHANNEL CONFIGURATION.
 4. CONTRACTOR MAY REMOVE AND PROPERLY DISPOSE OFFSITE THE STOCKPILED LANDSCAPE DEBRIS (TREE LIMBS, MULCH, ETC.) ADJACENT TO THE ACCESS DRIVE AS NEEDED TO CREATE WORK SPACE. AREA SHALL BE REGRADED AND RESTORED WITH TOPSOIL, SEED AND STRAW AFTER WORK IS COMPLETE.
 5. EXISTING CONCRETE MANHOLES AND PVC PIPE REMOVED DURING EXCAVATION SHALL BE PROPERLY DISPOSED OFFSITE.
 6. RESTORE ELECTRIC CONDUIT AND PULL BOXES. INSTALL 13"x24"x18" POLYMER CONCRETE PULL BOX WITH TIER 15 LOAD RATING, TYP. LID SHALL BE FLUSH WITH FINAL GRADE AND LID TEXT SHALL READ "ELECTRIC" OR APPROVED EQUAL. INSTALL ±1180 LF 4" SCH 40 CND WITH 24" MINIMUM COVER. INSTALL 210-LB POLYMER PULL STRING IN EACH CND.
 7. INSTALL AND MAINTAIN 4-FT HIGH ORANGE, PLASTIC CONSTRUCTION BARRIER FENCE PARALLEL TO DECORATIVE FENCE. INSTALL APPROXIMATELY 5-FT FROM DECORATIVE FENCE.



PLAN
SCALE: 1"=50'

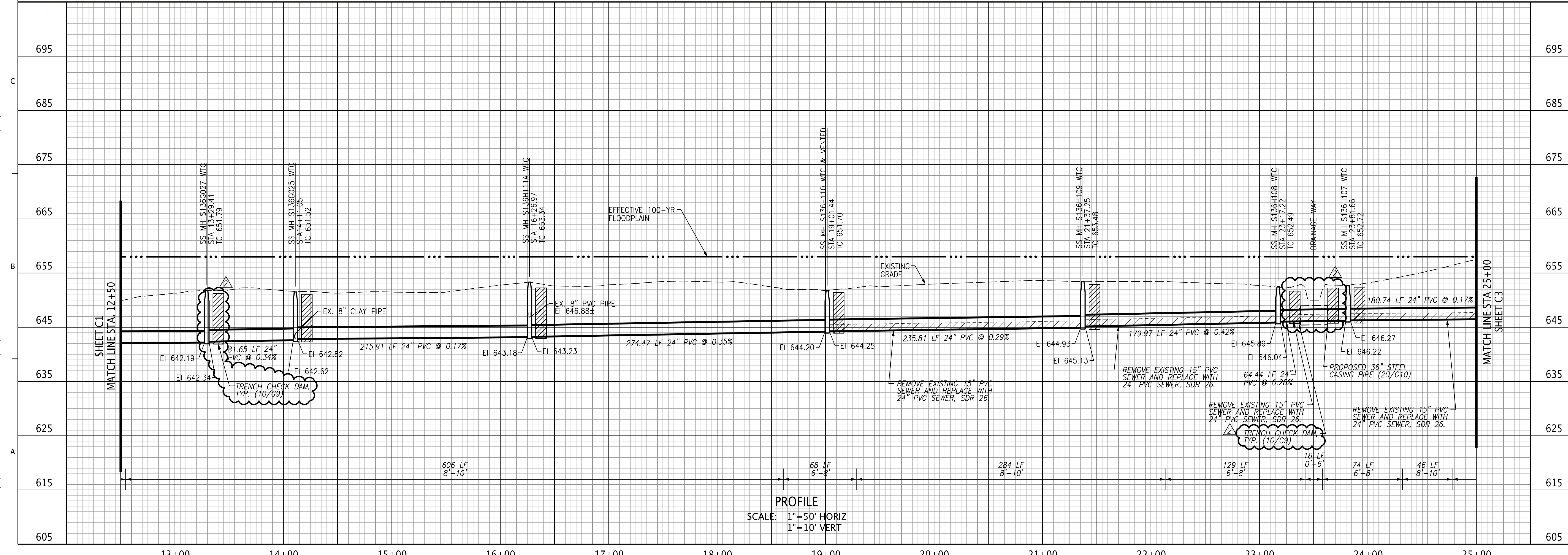
FULGHUM MACINDOE & ASSOCIATES, INC.
 10330 HARDIN VALLEY ROAD
 SUITE 201
 INDOLE, TN 37032
 CHATTANOOGA, TN 37409
 FAX: 865.690.6448
 www.fulghummacdoe.com



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 CONSENT DECREE PROGRAM



REFER TO SHEETS G2, G4, & G5 FOR LEGEND AND GENERAL NOTES



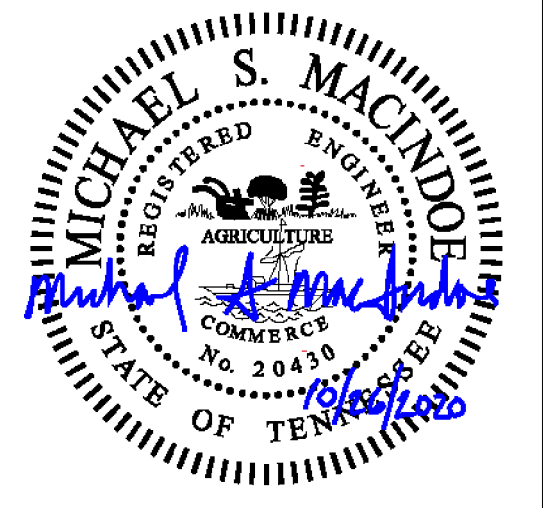
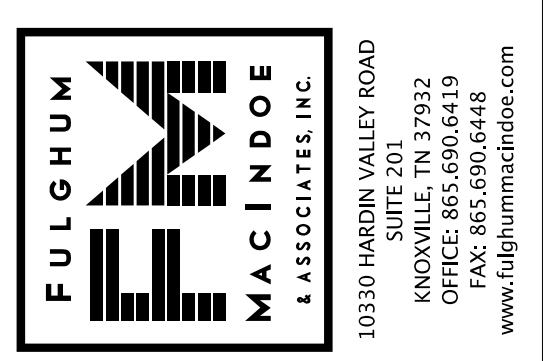
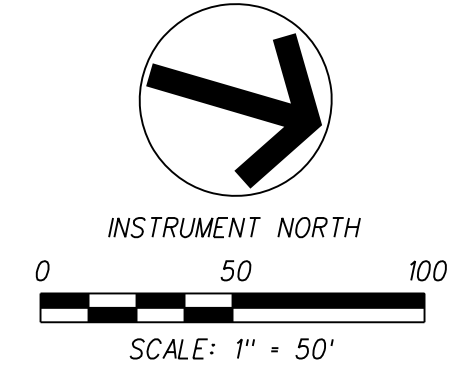
PROFILE
SCALE: 1"=50' HORIZ
1"=10' VERT

REV	DATE	REVISION DESCRIPTION
REV2	11/16/20	REVIEW PER TDC COMMENTS
REV1	10/26/20	ISSUED FOR CONSTRUCTION
REV0	08/03/20	ISSUED FOR 90% REVIEW

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 PROJECT NO: 649.001
 DATE: 10/26/2020
 DISC. LEAD: MSM
 DESIGNER: TAC
 CHECKER: SEE

SHEET TITLE: CIVIL
 PLAN AND PROFILE
 STATION 12+50 - STATION 25+00
 SHEET: C2

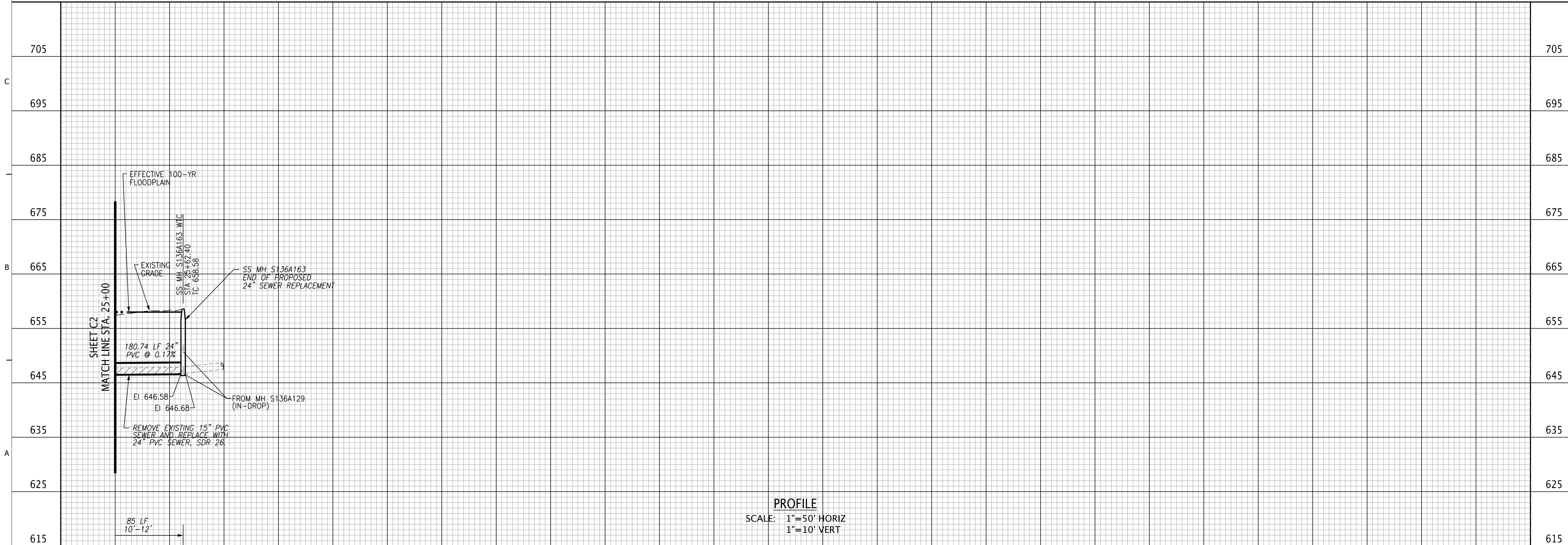
CREATED: 2/1/2020
 LAST SAVED: 10/23/2020
 BY: TAC
 PLOT DATE: 10/26/2020



RIVERVIEW PARK/CGCC
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 CITY OF CHATTANOOGA, TN
 CONSENT DECREE PROGRAM



REFER TO SHEETS G2, G4, & G5 FOR LEGEND AND GENERAL NOTES



PROFILE
 SCALE: 1"=50' HORIZ
 1"=10' VERT

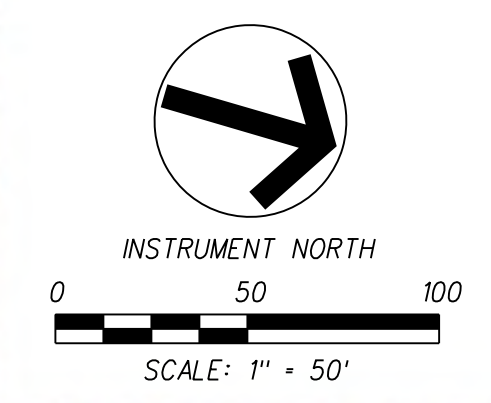
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 LAST SAVED: 10/23/2020
 BY: TAC
 PLOT DATE: 10/26/2020

REV	DATE	REVISION DESCRIPTION
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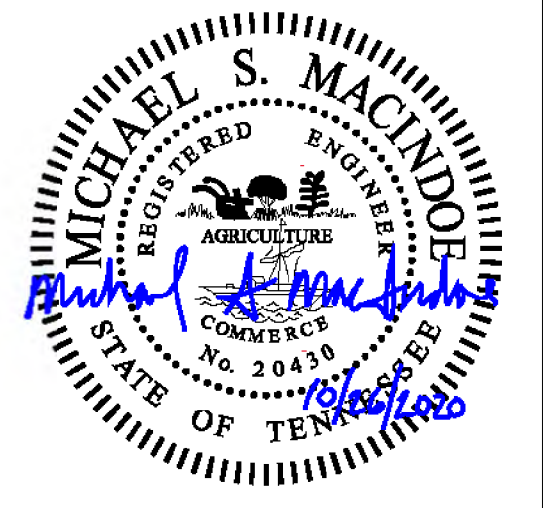
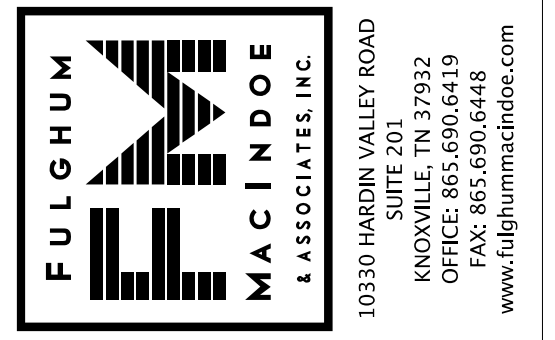
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 PROJECT NO: 649.001
 DATE: 10/26/2020
 DISC. LEAD: MSM
 DESIGNER: TAC
 CHECKER: SEE
 SHEET TITLE: CIVIL

PLAN AND PROFILE
 STATION 25+00 -
 STATION 25+61± E.O.L.
 SHEET C3

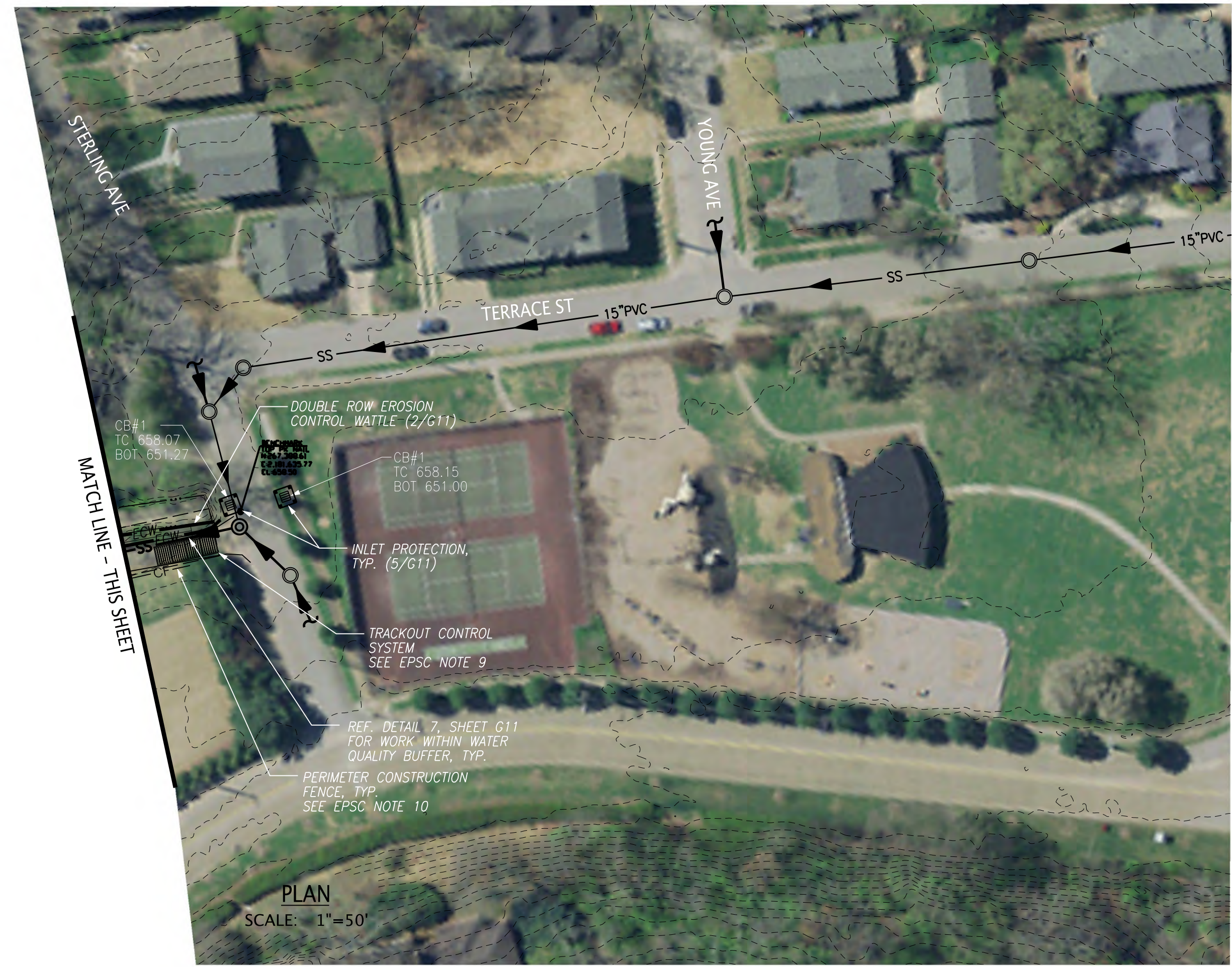
CREATED: 2/1/2020
 LAST SAVED: 10/23/2020
 BY: TAC
 PLOT DATE: 10/26/2020



EPSC NOTES:
 1. REFERENCE SHEET C4 FOR EPSC NOTES AND LEGEND.



RIVERVIEW PARK/CGCC
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 PROJECT NO: 649.001
 DATE: 10/26/2020
 DISC. LEAD: MSM
 DESIGNER: ADC
 CHECKER: SEE

SHEET TITLE: CIVIL
 EROSION PREVENTION AND SEDIMENT CONTROL PLAN

SHEET: C5