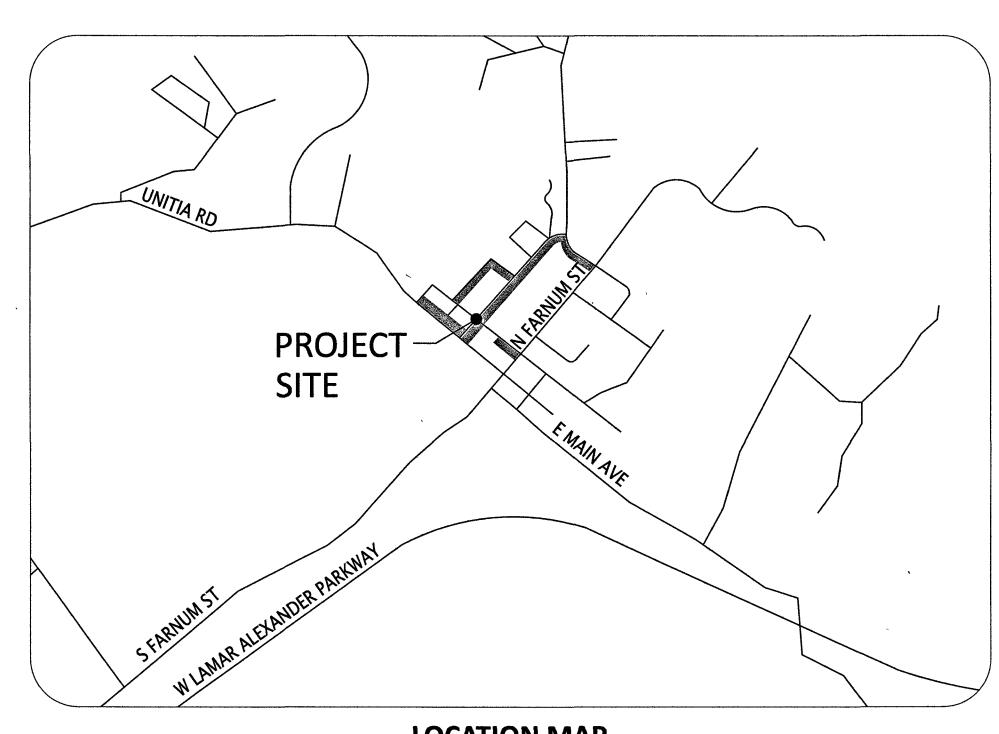
CITY OF FRIENDSVILLE BLOUNT COUNTY, TENNESSEE

2022 HUD PROJECT NUMBER B-22-CP-TN-0853
2022 SPECIAL APPROPRIATION FUNDS FOR CITY OF FRIENDSVILLE
SECOND CONGRESSIONAL DISTRICT - US REPRESENTATIVE TIM BURCHETT
FOR DOWNTOWN SIDEWALK IMPROVEMENTS



CITY OF FRIENDSVILLE ADMINISTRATION

MAYOR, STEVEN CARDWELL VICE MAYOR, SANDRA BELL COMMISSIONER, SHANE ROGERS COMMISSIONER, JONATHAN NEWBERRY COMMISSIONER, MARGARET MAZE

EXECUTIVE ASSISTANT, KIM ROGERS DISTRIBUTION TECHNICIAN, CHRIS BROUWER

FOR: CITY OF FRIENDSVILLE 213 W. COLLEGE AVENUE FRIENDSVILLE, TN 37737 PHONE: (865) 995-2831



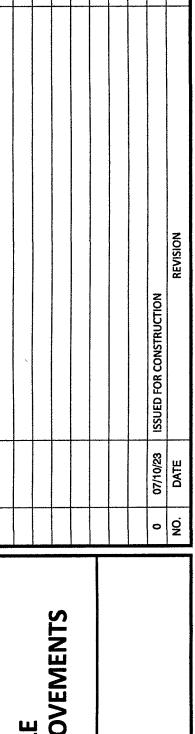
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	C1	0	07/10/23	COVER SHEET
	C2	0	07/10/23	OVERALL MAP
	C 3	0	07/10/23	SITE LAYOUT PLAN
	C3A	0	07/10/23	GRADING, DRAINAGE, UTILITIES, AND EROSION PREVENTION AND SEDIMENT CONTROL PLAN
	C 4	0	07/10/23	SITE LAYOUT PLAN
	C4A	0	07/10/23	GRADING, DRAINAGE, AND EROSION PREVENTION AND SEDIMENT CONTROL PLAN
	C 5	0	07/10/23	SITE LAYOUT PLAN
	C5A	0	07/10/23	GRADING, DRAINAGE, UTILITIES, AND EROSION PREVENTION AND SEDIMENT CONTROL PLAN
	C6	0	07/10/23	SITE LAYOUT PLAN
	C6A	0	07/10/23	GRADING, DRAINAGE, AND EROSION PREVENTION AND SEDIMENT CONTROL PLAN
	C7	0,	07/10/23	SITE LAYOUT PLAN
	C7A	0	07/10/23	GRADING, DRAINAGE, UTILITIES, AND EROSION PREVENTION AND SEDIMENT CONTROL PLAN
	C 8	0	07/10/23	SITE LAYOUT PLAN
	C8A	0	07/10/23	GRADING, DRAINAGE, UTILITIES, AND EROSION PREVENTION AND SEDIMENT CONTROL PLAN
	C 9	0	07/10/23	SITE LAYOUT PLAN
	C9A	0	07/10/23	GRADING, DRAINAGE, AND EROSION PREVENTION AND SEDIMENT CONTROL PLAN
	C10	0	07/10/23	DETAILS
	C11	0	07/10/23	DETAILS
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DRAWING INDEX



CITY OF FRIENDSVILLE 213 W. COLLEGE AVE. RIENDSVILLE, TN 37737

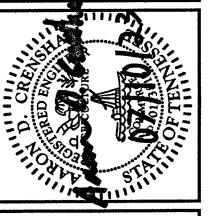
FAX: (865) 995-9878



CITY OF FRIENDSVILLE

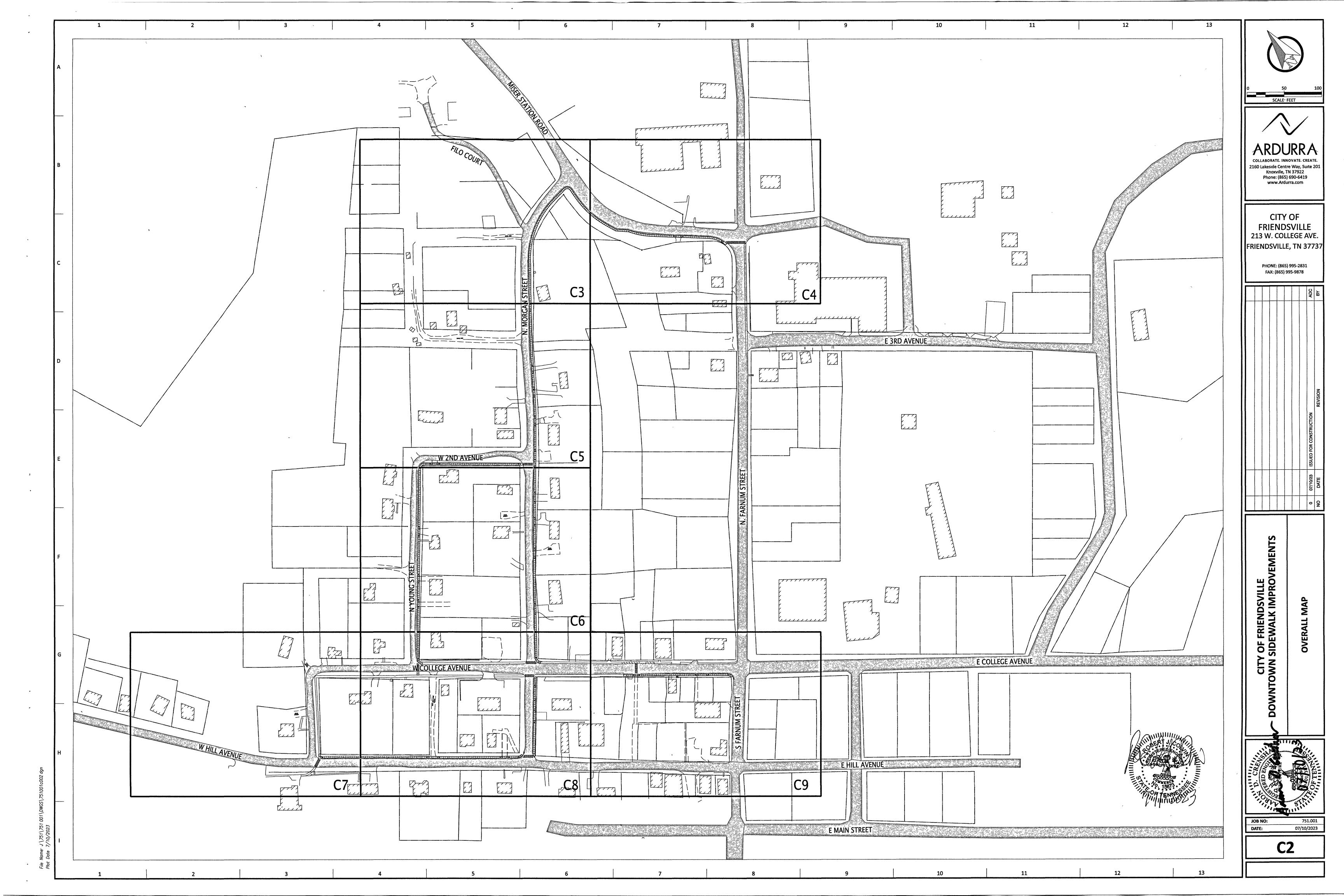
SOWNTOWN SIDEWALK IMPROVEMEN

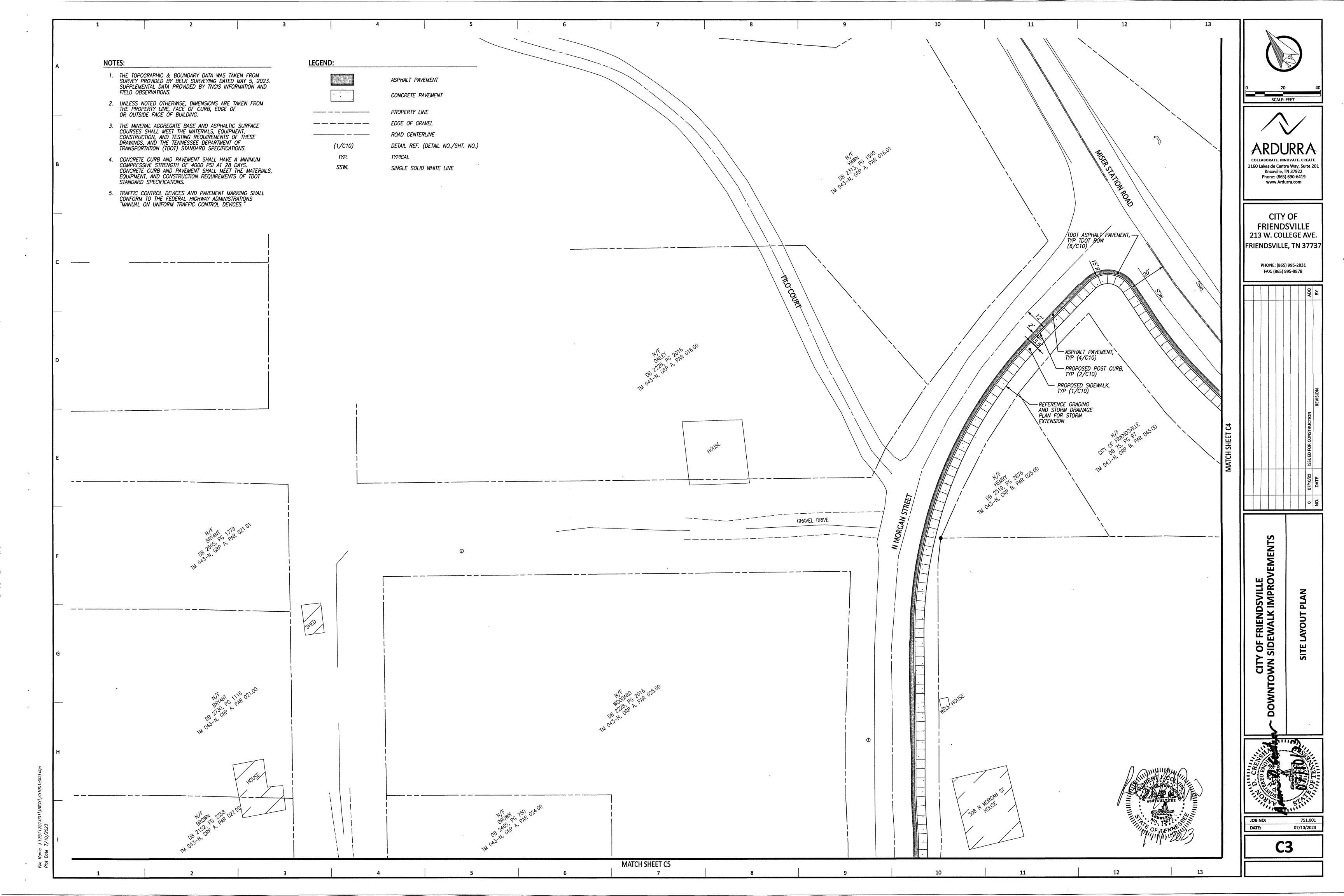
COVER SHEET



JOB NO: 751.002 DATE: 07/10/2023

File Name: J-\751\751 001\DWGS\75





- 1. UNLESS NOTED OTHERWISE, THE PROPOSED GRADES SHOWN ON THESE DRAWINGS ARE FINISHED GRADE. EXISTING AND PROPOSED CONTOURS ARE SHOWN AT 1-FT. INTERVALS.
- 2. THE ACCURACY OF THE GRADES IS DEPENDANT ON THE DATA PROVIDED BY THE OWNER OR OWNER'S REPRESENTATIVE. FIELD VERIFY AS NECESSARY PRIOR TO CONSTRUCTION.
- 3. THE SITE SHALL BE CLEARED AND GRUBBED WITHIN THE LIMITS OF EXCAVATION. COMPLETELY DISPOSE OF ALL MATERIALS RESULTING FROM CLEARING AND GRUBBING OFF-SITE. BURNING SHALL NOT BE PERMITTED UNLESS PRIOR APPROVAL IS OBTAINED BY THE LOCAL FIRE DEPARTMENT. THE CONTRACTOR MUST OBTAIN A PERMIT AND MEET ALL OF THE REQUIREMENTS AS SPECIFIED BY THE FIRE DEPARTMENT.
- 4. ALL TREES STUMPS, BOULDERS, AND OTHER OBSTRUCTIONS SHALL BE REMOVED TO A DEPTH OF 2 FT BELOW THE SUBGRADE. ROCK SHALL BE SCARIFIED TO DEPTH OF 1 FT BELOW SUBGRADE.
- 5. STRIP TOPSOIL FULL DEPTH (6-IN. MIN.) AND TEMPORARILY STOCKPILE EXCAVATED MATERIALS. INSTALL SILT FENCE OR OTHER APPROPRIATE EROSION CONTROL STRUCTURES ON THE DOWN HILL SIDE OF THE STOCKPILE.
- 6. PROOF ROLL ALL AREAS TO RECEIVE FILL. PROOF ROLL WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK USING A CRISS-CROSS PATTERN (4 PASSES MIN.) AREAS FAILING THE PROOF ROLLING SHALL BE UNDERCUT AND BACKFILLED USING AN ENGINEERED FILL OR STABILIZED BY A METHOD APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER.
- 7. AREAS THAT EXHIBIT WEAK SOIL OR OTHERWISE UNSUITABLE CONDITIONS SHALL BE UNDERCUT TO A FIRM LEVEL OF SOIL FOLLOWED BY BACKFILLING THE UNDERCUT AREAS USING AN ENGINEERED FILL. TDOT NO. 57, OR TDOT NO. 67 STONE.
- 8. FILL MATERIAL SHALL BE SATISFACTORY MATERIAL FREE FROM ROOTS AND OTHER ORGANIC MATERIAL, FROZEN MATERIAL, AND TRASH. FILL MATERIAL SHALL ALSO BE FREE OF STONE OR OTHER MATERIAL LARGER THAN 6 IN. AND LARGER THAN 4 IN. IN THE TOP 6 IN. OF AN EMBANKMENT.
- 9. FILL SOILS SHALL HAVE A PI LESS THAN 30 & A MAXIMUM DRY DENSITY OF 90 PCF OR GREATER.
- 10. UNSATISFACTORY SOILS INCLUDE MATERIALS THAT ARE TOO WET OR TOO SOFT, EXPANSIVE SOILS AND SOILS CLASSIFIED PT, OH, AND OL. LEGALLY DISPOSE OF UNSATISFACTORY SOILS OFF-SITE UNLESS OTHERWISE APPROVED BY THE OWNER OR GEOTECHNICAL ENGINEER.
- 11. FILL MATERIAL SHALL BE PLACED IN LOOSE, HORIZONTAL LIFTS NOT EXCEEDING 8 IN. THICKNESS. UNLESS NOTED OTHERWISE, COMPACT EACH LAYER TO AT LEAST 98% MAXIMUM DRY DENSITY. COMPACT THE UPPER 24 IN. OF FILL BENEATH PAVEMENTS AND THE UPPER 12 IN. BENEATH BUILDING SLABS TO 100% MAXIMUM DRY DENSITY. MAINTAIN THE MOISTURE CONTENT TO WITHIN -1 TO +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
- 12. A 6 IN. (MIN.) LAYER OF TOPSOIL SHALL BE PLACED OVER THE AREAS TO BE SEEDED AND TO THE FINISH GRADE ELEVATIONS AS SHOWN ON THE DRAWINGS.
- 13. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS OR POND ON-SITE. PROVIDE NECESSARY MEASURES TO KEEP THE SITE FREE-DRAINING.
- PROTECT AND MAINTAIN SUBGRADES UNTIL PLACEMENT OF THE FINAL SURFACE IS ACHIEVED.
- 15. VERIFY GRADES WHEREVER NECESSARY TO BRING THE PROPOSED LINES, ELEVATIONS, SLOPES, AND CROSS-SECTIONS OF THE GRADING WORK TO WITHIN THE FOLLOWING TOLERANCES ABOVE OR BELOW THAT AS SHOWN ON THE PLANS: SUBGRADE 0.1', UNPAVED AREAS 0.1', SIDEWALKS 0.10', AND PAVEMENTS 0.04'.
- 16. DISTURBED AREAS SHALL BE STABILIZED IN AN EXPEDIENT MANNER TO MINIMIZE TIME OF EXPOSURE TO WEATHER.

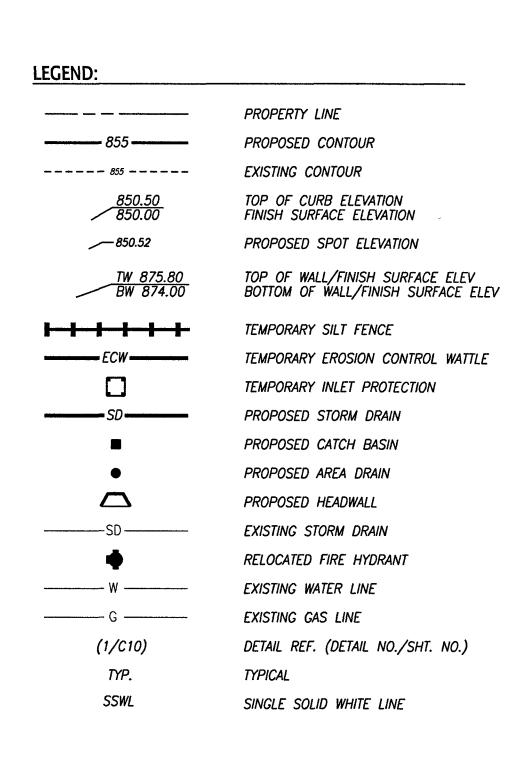
STORM PIPE NOTES:

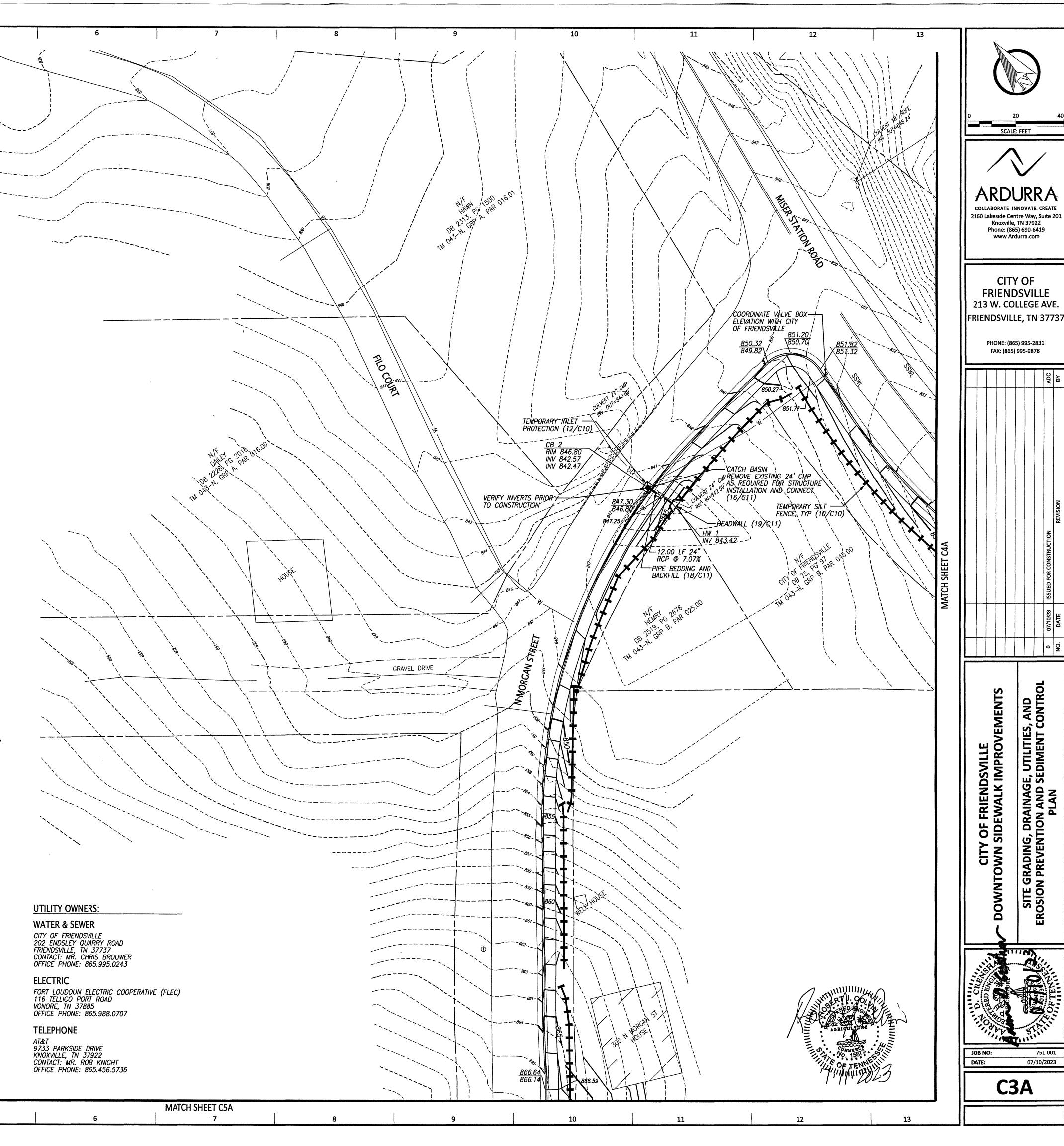
- 1. INSTALL STORM SEWER PIPING AND APPURTENANCES TO MEET THE MATERIALS, EQUIPMENT, AND CONSTRUCTION REQUIREMENTS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) STANDARD SPECIFICATIONS.
- TRENCH DESIGN AND SAFETY FOR PIPELINE CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, STATE, AND OSHA REGULATIONS.
- 3. UNLESS NOTED OTHERWISE, STORM SEWER PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE (RCP). RCP SHALL BE INSTALLED IN ACCORDANCE WITH AASHTO M170 (ASTM
- 4. PIPE DEFLECTION AND ALIGNMENT SHALL BE CHECKED AFTER BACKFILLING AND COMPACTION ARE COMPLETE AND PRIOR TO PLACING THE BASE. TEST DEFLECTION WITH A MANDREL OR OTHER APPROVED METHOD.
- 5. PIPE WITH DEFLECTION 5% OR GREATER OR WITH UNDUE MISALIGNMENT SHALL BE REPLACED AT THE CONTRACTOR'S
- 6. PIPE/CULVERTS ARE MEASURED IN TERMS OF HORIZONTAL LENGTH COMPLETE IN PLACE REGARDLESS OF TYPE, DEPTH CLASS, SHAPE AND SIZE, AS MEASURED ALONG THE CENTERLINE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE (NO DEDUCTIONS FOR STRUCTURES). ACTUAL QUANTITY OF PIPE MAY VARY. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE NECESSARY QUANTITY OF PIPE TO CONSTRUCT THE COMPLETE SYSTEM AS SHOWN. INSTALLATION INCLUDES EXCAVATION, SHORING, FURNISHING AND INSTALLATION OF PIPES, JOINT MATERIAL'S, COUPLINGS, AND BACKFILL.
- 7. FOR RCP PIPE WITH SLOPES GREATER THAN 15% USE JOINT TIES OR JOINT FASTENERS AS SPECIFIED BY THE MANUFACTURER.
- 8. PRIOR TO INSTALLING NEW PIPING. CONTRACTOR SHALL LOCATE EXISTING UTILITIES/STRUCTURES WHERE NEW PIPES CROSS BY POT-HOLING. AFTER EXPOSING EXISTING UTILITY/ STRUCTURE, CONTRACTOR SHALL OBTAIN HORIZONTAL AND VERTICAL LOCATIONS BY FIELD SURVEY, AND RESOLVE ANY CONFLICTS BETWEEN UNDERGROUND UTILITIES/STRUCTURES AND NEW PIPING UNDER THE DIRECTION OF THE OWNER PRIOR TO INSTALLING NEW PIPING.

EPSC NOTES:

- 1. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE TDEC'S EROSION AND SEDIMENT CONTROL HANDBOOK AND TDEC'S CONSTRUCTION ACTIVITY PERMIT REQUIREMENTS. THE DEVICES SHOWN ON THE DRAWINGS ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL DEVICES AS NEEDED.
- 2. INSTALL TEMPORARY SEDIMENT TRAP(S) WHERE SHOWN OR AS OTHERWISE APPROPRIATE. CONSTRUCT AND MAINTAIN IN ACCORDANCE WITH THE REQUIREMENTS OF TDEC'S EROSION & SEDIMENT CONTROL HANDBOOK. MUDDY WATER COLLECTED IN SEDIMENT TRAP(S) SHALL BE HELD UNTIL IT IS AT LEAST AS CLEAR AS UPSTREAM WATER BEFORE IT IS DISCHARGED TO SURFACE WATERS. DISCHARGE THROUGH A PIPE OR LINED CHANNEL SO THAT THE DISCHARGE DOES NOT CAUSE EROSION & SEDIMENTATION.
- 3. INSTALL TEMPORARY DIVERSION BERMS OR DIVERSION CHANNELS AS NECESSARY TO DIVERT STORM WATER FROM RUNNING ONTO THE DISTURBED AREAS AND TO DIVERT RUNOFF FROM DISTURBED AREAS TO THE TEMPORARY
- 4. APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OF EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
- 5. APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON-CONSTRUCTION AREAS, WHICH SHOW SIGNS OF EXCESSIVE EROSION.
- 6. UNLESS NOTED OTHERWISE, PERMANENT SEEDING SHALL BE FESCUE (TALL TURF-TYPE, CHEWINGS, OR CREEPING RED) AND SHALL BE FRESH CLEAN AND OF NEW CROP SEED. SEED AT A RATE OF 8 LBS./1000 S.F. USE A SLOW RELEASE STARTER FERTILIZER AT 1 LB. NITROGEN PER 1,000 S.F. WITH LIME AT A RATE OF 50 LBS. PER 1,000 S.F. IF GRADING IS PERFORMED DURING THE WINTER MONTHS, SEED MIXTURE SHALL BE SUPPLEMENTED WITH A WINTER RYE AT A RATE OF 3 LBS PER 1,000 S.F. TO ASSURE STABILIZATION DURING THE WINTER SEASON.
- 7. UNLESS NOTED OTHERWISE, MULCH WITH STRAW AT A RATE OF 100 LBS./1000 S.F. OVER THE SEEDED AREAS.
- 8. EXCAVATE STORMWATER SEDIMENT PONDS AS FIRST ITEM OF CONSTRUCTION.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF SITE CONSTRUCTION POLLUTION PREVENTION CONTROLS THROUGHOUT THE LIFE OF THE
- 10. THIS SITE IS A PRIORITY CONSTRUCTION ACTIVITY PER KNOX COUNTY STORMWATER MANAGEMENT MANUAL, VOLUME 2,
- 11. ADEQUATE DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES. BEST MANAGEMENT PRACTICES. AND/OR OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE, EROSION PREVENTION AND SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL

BE THE RESPONSIBILITY OF THE CONTRACTOR.





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07/10/2023

