

# STONES RIVER GREENWAY EXTENSION

## PHASE 4A

PREPARED FOR:  
CITY OF MURFREESBORO, TENNESSEE

MAYOR – HONORABLE SHANE McFARLAND  
CITY MANAGER – ROB LYONS  
ASSISTANT CITY MANAGER – JIM CRUMLEY  
PARKS AND REC DIRECTOR – LANNY GOODWIN  
ASSISTANT PARKS AND REC DIRECTOR – ANGELA JACKSON  
CITY ENGINEER – CHRIS GRIFFITH  
TRANSPORTATION DIRECTOR – DANA RICHARDSON

### TDOT PROJECT INFO:

LOCALLY MANAGED PROJECT  
CONTRACT #: 040145  
PIN #: 040844.00  
COUNTY: RUTHERFORD  
FEDERAL PROJECT #: HPP-9311 (9)  
STATE P.E. #: 75951-1783-94  
STATE R.O.W. #: 75951-2783-94  
STATE CONST. #: 75951-3783-94  
TYPE OF WORK: R.O.W / CONSTRUCTION PLANS

NOTE:  
THIS PROJECT TO BE CONSTRUCTED UNDER THE  
TDOT STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION, MARCH 1, 2006.



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## OWNER/DEVELOPER

CITY OF MURFREESBORO, TN PARKS AND RECREATION DEPARTMENT  
697 BARFIELD-CRESCENT ROAD MURFREESBORO, TN 37128

ALL QUESTIONS DURING CONSTRUCTION CONTACT OWNERS REPRESENTATIVE (LOSE & ASSOCIATES, INC.). PROJECT MANAGER: BRAM BARTH (615)767-5822 P, (615)242-1405 F. 24 HOUR CONTACT IS RAYMOND HILLIS (615)566-5271.

## DESIGNER

LANDSCAPE ARCHITECT/CIVIL ENGINEER/  
ARCHITECT

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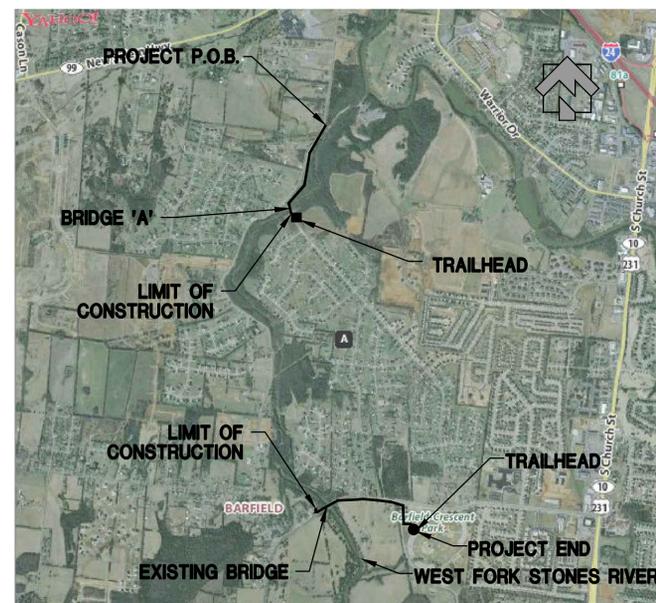
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## LOCATION MAP



STONES RIVER GREENWAY  
EXTENSION  
PHASES 4A  
PREPARED FOR  
MURFREESBORO  
TENNESSEE

REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE	
COVER	

PROJECT NUMBER	DATE
01018	4-18-2014

DRAWN BY	SCALE
BB	
CHECKED BY	SHEET NUMBER
LD	C0.00

# TDOT NOTES

## GRADING (6-100.00)

1. ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
2. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY TEXT.

## SEEDING AND SODDING (6-105.00)

1. ITEM NO. 801-02, SEEDING (WITHOUT MULCH) AND EROSION CONTROL BLANKET, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

## GUARDRAIL (6-110.00)

1. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

## DRAINAGE (6-115.00)

1. THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
2. CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
3. DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

## UTILITIES (6-120.00)

1. THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED. UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
3. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY LOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
4. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

## PAVING (6-150.01)

1. THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.

## RIPRAP (6-160.00)

1. MACHINED RIPRAP SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED BY THIS NOTE. MACHINED RIPRAP SHALL BE CLEAN SHOT ROCK CONTAINING NO SAND, DUST, OR ORGANIC MATERIALS AND SHALL VARY IN SIZE ACCORDING TO THE DETAILS PROVIDED HEREIN.
2. (2) RIPRAP SHALL CONSIST OF FURNISHING AND PLACING EITHER RUBBLE STONES BY HAND OR MACHINED. RUBBLE STONE SHALL MEET THE REQUIREMENTS OF SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE CLEAN (FREE FROM ORGANIC MATTER), DURABLE, ANGULAR WITH FRACTURED FACES, NEARLY RECTANGULAR IN SHAPE WITH A BREADTH OR THICKNESS AT LEAST ONE-THIRD ITS LENGTH.

## EPSC (6-190.00)

### DISTURBED AREA (6-190.01)

1. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.
2. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 15 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS INSTALLED.
3. CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.
4. ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.
5. CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDE SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.
6. NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT. OFF-SITE BORROW OR WASTE AREAS ARE TO BE INCLUDED IN THE TOTAL DISTURBED AREA IF THE BORROW OR WASTE AREA IS EXCLUSIVE TO THE PROJECT PER TDOT'S WASTE AND BORROW MANUAL.

## EPSC (6-190.00)(CONT.)

### SEDIMENT CONTROL (6-190.02)

1. EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
2. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.
3. WATER PUMPED FROM WORK AREAS AND EXCAVATION MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE INTO SURFACE WATERS. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL- VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASINS AND TRAPS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.
4. CHECK DAMS SHALL BE USED WHERE RUNOFF IS CONCENTRATED. CLEAN ROCK, BRUSH, GABION, OR SANDBAG CHECK DAMS SHALL BE PROPERLY CONSTRUCTED TO REDUCE VELOCITY AND PREVENT EROSION.
5. FOR AN OUTFALL IN A DRAINAGE AREA OF 10 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.
6. IF PERMANENT VEGETATION IS TO BE USED AS AN EPSC MEASURE, THEN THE TIMING OF PLANTING OF VEGETATION SHALL BE SHOWN IN THE SWPPP. DELAYING PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.
7. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ACCESS (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED, AS NEEDED, TO REDUCE THE TRACKING OF DUST AND PUBLIC TRAFFIC ON NEARBY HIGHWAYS AND LOCAL ROADS. TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REPLACED AT THE END OF THE WORKDAY.

### STREAM/WETLAND (6-190.03)

1. SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT WATER QUALITY MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG STREAM BANKS IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS IN ACCORDANCE WITH TDOT STANDARDS. THEY MUST BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.
2. NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.
3. INSTREAM EPSC DEVICES REQUIRE THE ENVIRONMENTAL DIVISION'S PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN TDEC, USACE, AND TVA PERMITS.
4. THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS, SHALL BE ONLY AS SHOWN ON THE PROJECT PLANS AND/OR AS SO SPECIFIED IN THE ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS. ANY ADDITIONAL PERMITS REQUIRED BY THE CONTRACTOR'S METHOD OF OPERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AFTER RECEIVING THE APPROVAL OF TDOT ENVIRONMENTAL DIVISION.
5. THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING.
6. STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CROSSINGS MUST BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES MUST BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK MUST BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS MUST BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO THEIR PREEXISTING ELEVATION. ALL TEMPORARY CROSSINGS MUST BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.
7. HEAVY EQUIPMENT WORKING IN WETLANDS MUST BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT MUST BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. WETLANDS SHALL NOT BE USED FOR EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS PROVIDED FOR IN THE PLANS.

### SPECIES (6-190.04)

1. NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENEOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA. THE SWPPP SHALL BE MODIFIED TO INCLUDE EPSC MEASURES TO PREVENT NEGATIVE IMPACTS TO LEGALLY PROTECTED STATE OR FEDERAL FAUNA OR FLORA OR AS INDICATED IN THE ECOLOGICAL STUDIES OR ON THE PERMIT(S).

### INSPECTION, MAINTENANCE, REPAIR (6-190.05)

1. EPSC CONTROLS WILL BE MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES.
2. INSPECTION AND MAINTENANCE OF EPSC MEASURES/STRUCTURES IS TO BE PERFORMED ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.
3. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND BE TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL, C.Y.
4. THE CONTRACTOR SHALL INSTALL A RAIN GAUGE EVERY LINEAR MILE AT ALL SITES WHERE CLEARING, GRUBBING, EXCAVATION, GRADING CUTTING OR FILLING IS BEING ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED. IF THE PROJECT LENGTH IS LESS THAN ONE LINEAR MILE, ONE RAIN GAUGE SHALL BE INSTALLED AT THE CENTER OF THE PROJECT OR AS INDICATED BY THE TDOT EPSC INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT EACH GAUGE IS MAINTAINED IN GOOD WORKING CONDITION. TDOT AND/OR THE CONTRACTOR SHALL RECORD DAILY PRECIPITATION AND FORECASTED PERCENTAGE OF PRECIPITATION IN DETAILED RECORDS OF RAINFALL EVENTS INCLUDING DATES, AMOUNTS OF RAINFALL PER GAUGE, THE ESTIMATED DURATION (OR STARTING AND ENDING TIMES), AND FORECASTED PERCENTAGE OF PRECIPITATION FOR THE PROJECT. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER ON A MONTHLY BASIS. THE COST FOR THE RAIN GAUGES IS TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER ITEMS. RAIN GAUGES SHALL BE AS SPECIFIED IN THE APPROVED TDOT RAINFALL MONITORING PLAN.

## EPSC (6-190.00)(CONT.)

### INSPECTION, MAINTENANCE, REPAIR (6-190.05)(CONT.)

5. INSPECTION OF EPSC MEASURES SHALL BE DONE AT LEAST TWICE PER CALENDAR WEEK AT LEAST 72 HOURS APART. A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE/QUALITY CONTROL SITE ASSESSMENT OF EPSC SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION'S COMPREHENSIVE INSPECTION OFFICE GUIDELINES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO SURROUNDING WATERS, WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.
7. UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE TIMEFRAME, WRITTEN DOCUMENTATION MUST BE PROVIDED IN THE FIELD BOOK AND AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.
8. THE TDOT PROJECT SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT PROJECT SUPERVISOR OR THEIR DESIGNEE WILL COMPLETE THE INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

### MATERIALS (6-190.06)

1. WASTE AND BORROW AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN. BORROW AND WASTE DISPOSAL AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY AN ARAP, 404, OR NPDES PERMIT, OBTAINED SOLELY BY THE CONTRACTOR.

### SWPPP, PERMITS, PLANS, RECORDS (6-190.07)

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS.
2. ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT ENGINEER, THE ENVIRONMENTAL DIVISION, ROADWAY DESIGN DIVISION AND HEADQUARTERS OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.
3. THE FOLLOWING INFORMATION SHALL BE MAINTAINED ON OR NEAR THE SITE. DATES THAT MAJOR GRADING ACTIVITIES OCCUR, DATES WHERE CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, DATES WHEN STABILIZATION MEASURES ARE INITIATED, EPSC INSPECTION RECORDS, QUALITY ASSURANCE SITE ASSESSMENT RECORDS, PRECIPITATION RECORDS, SWPPP, PROJECT ENVIRONMENTAL PERMITS, AND A COPY OF THE PROJECT EPSC INSPECTOR'S TDEC LEVEL 1 CERTIFICATION.
4. ALL WATER QUALITY AND STORM WATER PERMITS, INCLUDING A COPY OF THE NOC WITH NPDES PERMIT TRACKING NUMBER AND THE LOCATION OF THE SWPPP, SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.
5. IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS OR MODIFICATIONS OF THE SWPPP ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.
6. THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY. THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED WHEN MAJOR DESIGN REVISIONS ARE REQUESTED BY CONSTRUCTION. THE ENVIRONMENTAL DIVISION MAY BE CONTACTED FOR GUIDANCE ON SPECIFIC SWPPP NEEDS. A COPY OF ANY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS SHALL BE RETAINED IN THE SCTRUCION WHENEVER A CHANGE IN CHEMICAL TREATMENT METHODS IS MADE INCLUDING USE OF A DIFFERENT CHEMICAL, DIFFERENT DOSAGE OR APPLICATION RATE, OR A DIFFERENT AREA OF APPLICATION.
8. IF A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION) THE SWPPP SHALL BE MODIFIED OR UPDATED.
9. PROJECT INSPECTORS AND SUPERVISORS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EPSC PLANS SHALL SUCCESSFULLY COMPLETE THE TDEC LEVEL 1 FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES COURSE AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION. A COPY OF CERTIFICATION RECORDS FOR THE COURSES SHALL BE KEPT ON SITE AND AVAILABLE UPON REQUEST.

### LITTER, DEBRIS, WASTE, PETROLEUM (6-190.08)

1. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS. AFTER USE, MATERIALS USED FOR EPSC WILL BE REMOVED FROM THE SITE.
2. THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

IN THE EVENT THAT A DISCREPANCY OCCURS BETWEEN TDOT NOTES AND OTHER NOTES WITHIN THE PLAN SET, THE MORE STRINGENT OF THE TWO SHALL APPLY.

## STANDARD DRAWINGS

DWG. NO.	REV.	DESCRIPTION
<b>EROSION PREVENTION AND SEDIMENT CONTROL</b>		
EC-STR-8	4/1/2008	FILTER SOCK
<b>ROADWAY AND PAVEMENT APPURTENANCES</b>		
RP-H+4	1/15/2007	PERPENDICULAR CURB RAMP
<b>ROADSIDE SAFETY DEVICES AND FENCES</b>		
S-GR3-1	7/11/2013	W-BEAM GUARDRAIL
S-GR3-2	7/11/2013	TYPE 21 GUARDRAIL TERMINAL
S-GR3-3D	7/11/2013	TYPE 21 GUARDRAIL TERMINAL (DETAILS)
S-GR3-3P	7/11/2013	EARTH PAD FOR TYPE 21 TERMINAL

## ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QTY.	UNIT
<b>GENERAL</b>			
209-01.11	CONSTRUCTION ACCESS	5	EA
712-01	TRAFFIC CONTROL	1	LS
105-01	CONSTRUCTION STAKES, LINES AND GRADES	1	LS
105-01.50	CONSTRUCTION LAYOUT	1	LS
<b>DEMOLITION</b>			
201-01.03	CLEARING AND GRUBBING	3.6	AC
714-05.45	REMOVE & RELOCATE UTILITY POLE	1	LS
503-01.01	MILLING CONCRETE PAVEMENT	740	SY
<b>EARTHWORK, EROSION CONTROL, &amp; DRAINAGE</b>			
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED) - Includes all project grading (rough grading, fine grading, trail edge backfill, etc.)	6500	CY
203-05	UNDERCUTTING	231	CY
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	5035	LF
709-05.06	MACHINED RIP-RAP (CLASS A-1)	1246	T
805-12.02	EROSION CONTROL BLANKET (TYPE I)	7396	SY
607-01.02	12" CONCRETE PIPE CULVERT (CLASS III)	72	LF
607-03.03	18" CONCRETE PIPE CULVERT (CLASS IV)	68	LF
607-05.03	24" CONCRETE PIPE CULVERT (CLASS IV)	128	LF
607-06.03	30" CONCRETE PIPE CULVERT (CLASS IV)	30	LF
611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	16	EA
<b>HARDSCAPE</b>			
703-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D - Sidewalk base	718	T
301-01.01	CONCRETE SIDEWALK (4")	16612	SF
702-01.02	CONCRETE CURB (FLUSH) - Includes base	6018	LF
702-01.02	CONCRETE CURB (TURNDOWN) - Includes base	360	LF
920-10.04	CONCRETE WHEELSTOPS	24	EA
740-10.05	GEOTEXTILE - TYPE V (DESCRIPTION)	12236	SY
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D - Bituminous base	2936	T
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	26.14	T
311-01.01	PROCESSING MIXED IN PLACE ASPHALT EMULSION BASE DEPTH	386	T
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	1.28	T
411-33.32	ASPHALTIC SURFACE MIX	1387	T
407-02.14	ASPHALT PAVEMENT REPAIR	18	SY
701-01.04	CAST-IN-PLACE TACTILE WARNING SYSTEM	7	EA
716-04.10	PLASTIC PAVEMENT MARKING (HANDICAP SYMBOL)	25	SF
716-05.08	PAINTED PAVEMENT MARKING (PARKING LINE)	883	LF
716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	1062	LF
716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	80	LF
716-05.03	PAINTED PAVEMENT MARKING (CROSS-WALK)	38	LF
716-05.11	PAINTED PAVEMENT MARKING (STRAIGHT ARROW)	16	EA
920-11.04	PAINTED PAVEMENT MARKING (PEDESTRIAN)	4	EA
<b>STRUCTURES</b>			
920-11.05	PEDESTRIAN BRIDGE ABUTMENTS - Includes all accompanying excavation, shoring, material installation, and gravel/soil backfill	1	LS
602-03.01	STEEL STRUCTURES - Includes accompanying delivery and installation	1	LS
920-12.05	PEDESTRIAN BOARDWALK ABUTMENTS - Includes all accompanying excavation, shoring, material installation, and gravel/soil backfill	1	LS
602-03.02	PEDESTRIAN BOARDWALK - Includes accompanying delivery and installation	1	LS
<b>AMENITIES</b>			
721-01.01	BENCH	2	EA
721-01.02	TRASH RECEPTACLE	2	EA
920-12.04	TRAILHEAD SIGNAGE - Includes trail map & rules sign	3	EA
920-13.04	TRAILHEAD SIGNAGE - Includes trailhead marker sign	1	EA
713-01.10	SIGNING	13	EA
705-02.02	SINGLE GUARDRAIL (TYPE 2)	405	LF
705-04.04	GUARDRAIL TERMINAL (TYPE 21)	6	EA
707-08.01	FENCE (SAFETY RAILING)	904	LF
920-10.04	TRAILHEAD GATE	1	EA
709-11.01	BOULDER (3-4" DIAMETER)	15	EA
630-01.17	REMOVABLE BOLLARD	8	EA
<b>LANDSCAPE</b>			
801-02.09	SEEDING	1.53	AC



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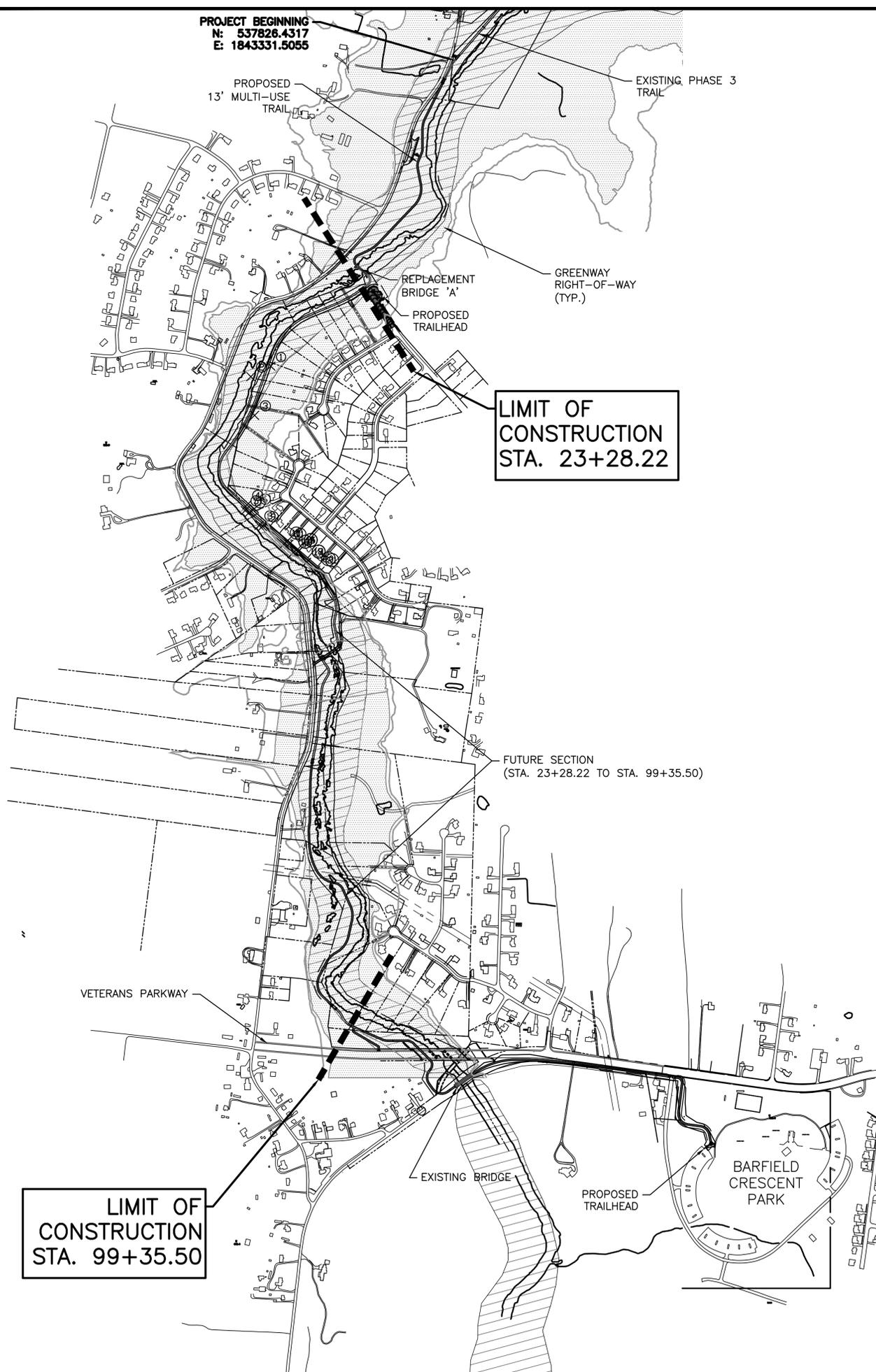
**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO**  
**TENNESSEE**

NO.	DATE	COMMENTS
	10/15/13	CITY SUBMITTAL
	03/03/14	TDOT SUBMITTAL
	04/21/14	TDOT RE-SUBMITTAL
	05/09/14	TDOT RE-SUBMITTAL

SHEET TITLE	
<b>TDOT STANDARD DRAWINGS AND ESTIMATED QUANTITIES</b>	

PROJECT NUMBER	DATE
<b>01018</b>	<b>4-18-2014</b>
DRAWN BY	

PROJECT BEGINNING  
N: 537826.4317  
E: 1843331.5055



## EXISTING UTILITIES

1. UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY THE OWNER, LOSE & ASSOCIATES, OR THEIR REPRESENTATIVES. BEFORE YOU DIG CALL 811 TO HAVE EXISTING UTILITIES MARKED.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES TO REMAIN.

## ADA REQUIREMENTS

1. ALL CONSTRUCTION ACTIVITIES SHALL BE COMPLETED IN FULL COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT ("ADA") AND ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD, FEDERAL REGISTER 36CFR PARTS 1190 AND 1191, ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES; ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY GUIDELINES; PROPOSED RULE, NOVEMBER 1999, AS HAS BEEN ADOPTED BY THE CITY OF MURFREESBORO.

## DEVELOPMENT NOTES

1. NOTIFY PARKS DEPARTMENT & LOSE & ASSOCIATES AT 50, 95, AND 100 PERCENT COMPLETION OF EVERY PHASE OF CONSTRUCTION
2. ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
3. ALL CONSTRUCTION TO COMPLY WITH CITY OF MURFREESBORO ZONING AND CODES STANDARDS.
4. A RUTHERFORD COUNTY LAND DISTURBANCE PERMIT WILL BE NECESSARY. COORDINATE WITH THE RUTHERFORD COUNTY PLANNING DEPARTMENT - (615)898-7730.

## TRAFFIC NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL ROAD CLOSURES, EXCAVATIONS, ETC. WITH THE LOCAL PUBLIC WORKS DEPARTMENT. ALL TEMPORARY LANE CLOSURES, EXCAVATIONS, BORINGS, TRAFFIC CONTROL, ETC. SHALL BE DONE IN COMPLIANCE WITH TDDT & LOCAL REQUIREMENTS.
2. TRAFFIC CONTROL LANE CLOSINGS SHALL BE REGULATED BETWEEN 8:30AM AND 2:30PM. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL OTHER TIMES.

## DEMOLITION NOTES

1. ALL DEMOLISHED MATERIALS (EXCLUDING FOREIGN ITEMS AS LISTED IN GENERAL NOTE 10/CO.01) BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED BY THE OWNER'S REP. DISPOSE OF OFF THE OWNER'S PROPERTY AT NO ADDITIONAL COST.
2. ALL PAVEMENT, BASE COURSES, SIDEWALKS, CURBS, ETC., THAT ARE REMOVED SHALL BE REMOVED TO FULL DEPTH. ALL PAVEMENT, SIDEWALK, AND CURB SHALL BE SAW CUT IN ORDER TO OBTAIN NEAT LINES AND SMOOTH TRANSITIONS TO NEW SURFACES.
3. ALL ITEMS OF CONSTRUCTION REMAINING AND NOT SPECIFICALLY MENTIONED THAT INTERFERES WITH THE NEW CONSTRUCTION SHALL BE REMOVED AS DIRECTED BY THE OWNERS REPRESENTATIVE AT NO ADDITIONAL COST.
4. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL STREETS, TREES, UTILITIES, AND STRUCTURES THAT ARE TO REMAIN. CONTRACTOR CAUSED DAMAGE WILL BE REPAIRED TO MURFREESBORO STANDARDS AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND OBTAIN ALL PERMITS PRIOR TO BEGINNING WORK.
6. NO TREES ARE TO BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR DEMOLITION PURPOSES AND ONLY WITH PRIOR APPROVAL FROM THE OWNER'S REPRESENTATIVE.

## LAYOUT NOTES

1. ALL LAYOUT MEASUREMENTS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
2. COORDINATE POINTS ARE SET USING THE COORDINATE SYSTEM REFERENCED BY GPS MONUMENTS SHOWN ON THIS SHEET.
3. ALL TOPOGRAPHIC INFORMATION PROVIDED IS TAKEN FROM THE CITY OF MURFREESBORO GIS INFORMATION.
4. LOSE AND ASSOCIATES, INC., ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THE BASE INFORMATION AS PROVIDED. CONTRACTOR IS TO VERIFY ALL BASE INFORMATION AS NECESSARY AND TO ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO ANY LAYOUT WORK.

**PHASE 4A INCLUDES:  
STA. 0+00 TO STA. 23+28.22  
AND  
STA. 99+35.50 TO STA. 137+57.84**

## CLEARING/GRUBBING

1. DO NOT EXCEED CLEARING AND GRUBBING LIMITS OF CONSTRUCTION DEFINED BY SILT FENCE LOCATION ALONG THE STONES RIVER, GREENWAY R.O.W. LIMITS ON THE UPLAND SIDE OF THE TRAIL AND TEMPORARY GRADING EASEMENTS SHOWN ON PLANS.
2. ALL AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE CROSSED BY HEAVY EQUIPMENT OR USED FOR STORING HEAVY EQUIPMENT OR MATERIALS.
3. NO EQUIPMENT SHALL BE STORED UNDER THE DRIP LINE OF TREES TO REMAIN.
4. DO NOT FALL ANY TREES OR PUSH PILES OF DEBRIS AGAINST TREES TO REMAIN.
5. REMOVE ALL STUMPS, ROCKS, ASPHALT & CONCRETE DEBRIS, ETC. AND DISPOSE OFF SITE IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
6. CONTACT ALL UTILITY AUTHORITIES WHO HAVE LINES WITHIN THE CLEARING AND GRUBBING LIMITS BEFORE STARTING WORK.
7. ALL EROSION CONTROL SEDIMENT BARRIERS, SILT FENCES, AND TREE PROTECTION DEVICES SHALL BE INSTALLED PRIOR TO STARTING CLEARING AND GRUBBING OPERATIONS.
8. CONTRACTOR TO STAKE TRAIL CENTERLINE & LIMITS OF CLEARING FOR REVIEW BY LOSE & ASSOCIATES PRIOR TO BEGINNING CLEARING OPERATIONS; TREES WITHIN GRADING LIMITS TO BE SAVED WILL BE IDENTIFIED BY THE OWNER'S REPRESENTATIVE. FIELD CHANGES TO GRADING PLANS SHALL BE MADE FOR SMOOTH TRANSITION OF GRADES AROUND ALL TREES.
9. SEE SPECIFICATIONS FOR TREE CLEARING REQUIREMENTS AND PENALTIES FOR DAMAGES TO TREES DESIGNATED TO REMAIN.
10. ALL CLEARING SHALL BE LIMITED TO AREAS TO BE GRADED WITHIN 14 CALENDAR DAYS PER STATE PERMITS.

## GRADING NOTES

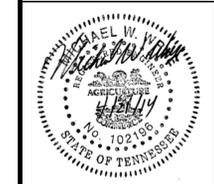
1. TOPSOIL SHALL BE STORED ON SITE IN LOCATIONS APPROVED BY THE OWNERS REPRESENTATIVE AND OUTSIDE AREAS PRONE TO FLOODING. DRAINAGE SHALL ROUTE AROUND THESE TOPSOIL STOCKPILES FOR THE DURATION OF THE GRADING OPERATIONS. EROSION CONTROL MEASURES SHALL PREVENT LOSS OF TOPSOIL MATERIAL.
2. UNSUITABLE SOILS SHALL BE UNIFORMLY SPREAD ACROSS NON-STRUCTURAL FILL AREAS AND COVERED WITH PROOF-ROLLED WITH RUBBER-TIRED EQUIPMENT WITH A MINIMUM WEIGHT OF FIFTEEN TONS PRIOR TO BEGINNING FILL OPERATION. AREAS WHICH ARE SOFT OR UNSTABLE SHALL BE UNDERCUT UNTIL STABLE SOILS ARE FOUND. RECOMPACTION OF THESE SOILS TO 98 PERCENT MAXIMUM DRY DENSITY (AS PER ASTM D698 STANDARD PROCTOR) WILL BE ALLOWED, UNDER THE DIRECTION OF A QUALIFIED SOILS ENGINEER EMPLOYED BY THE CITY OF MURFREESBORO.
3. CUT AREA SHALL BE PROOF-ROLLED AFTER FINAL SUBGRADE IS ACHIEVED IN THE SAME MANNER AS FILLED AREAS. SOFT OR UNSTABLE SOILS SHALL BE SCARIFIED TO A DEPTH OF 12" AND RECOMPACTED TO 98 PERCENT MAXIMUM DRY DENSITY AS PER ASTM D698 (STANDARD PROCTOR).
5. CONFIRMATION OF ALL COMPACTION REQUIREMENTS SHALL BE CONFIRMED BY A QUALIFIED SOILS ENGINEER EMPLOYED BY THE CITY OF MURFREESBORO. SEE SPECIFICATION FOR SOIL COMPACTION RATES.
6. ALL FILL AREAS SHALL BE RAISED IN LIFTS NOT EXCEEDING 6 INCHES.
7. ALL AREAS WILL BE GRADED TO PROVIDE PROPER DRAINAGE AND PREVENT STANDING WATER.
8. ELEVATIONS SHOWN ON THE PLANS IS THE FINISH GRADE ELEVATION.
9. GRADING SHALL BE SEQUENCED SO THAT BASE STONE IS PLACED WITHIN 14 CALENDAR DAYS OF ACHIEVING OPTIMUM SUBGRADE COMPACTION.
10. ALL GRADING OPERATIONS SHALL BE COMPLETED IN COMPLIANCE OF CITY, COUNTY AND STATE LAND DISTURBANCE PERMITS AS REQUIRED.

## GENERAL NOTES

1. THE CONTRACTOR IS TO CHECK AND VERIFY ALL MEASUREMENTS, DIMENSIONS, LEVELS, PLAN ELEVATIONS, INVERTS, ETC. BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE WORK, AND IS TO BE RESPONSIBLE FOR THE SAME. REMEDIAL WORK RESULTING FROM LACK OF VERIFICATION WILL BE AT CONTRACTOR'S SOLE EXPENSE.
2. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE DAMAGE OR LOSS OF ANY REFERENCE POINTS AND HUBS DURING THE CONSTRUCTION OF HIS/HER WORK, AND SHALL BEAR THE COST OF REPLACING SAME.
3. CARE SHALL BE TAKEN TO PROTECT ANY UTILITIES, TREES, ETC. WHICH ARE TO REMAIN AND NOT TO BE DISTURBED BY THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO SUCH PROPERTY.
4. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS AND PAY ALL LEGAL FEES. HE/SHE SHALL ALSO COMPLY WITH ALL CITY, COUNTY AND STATE BUILDING LAWS, ORDINANCES OR REGULATIONS RELATING TO BUILDING SIDEWALKS, STREETS, WATER MAINS, SEWERS, BLASTING, PUBLIC STRUCTURES, ETC. THE CONTRACTOR ACKNOWLEDGES & AGREES THAT THE WORK IS ENTIRELY AT THE CONTRACTOR'S RISK UNTIL SITE IS ACCEPTED, AND THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR PROTECTION OF THE PROJECT AND PUBLIC SAFETY. THE CONTRACTOR WILL INDEMNIFY THE OWNER AND LOSE & ASSOCIATES FROM LIABILITY AT THE SITE THROUGHOUT THE CONSTRUCTION PROCESS.
6. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL NECESSARY TEMPORARY WORKS FOR THE PROTECTION OF THE WORK AND THE PUBLIC, INCLUDING BARRICADES, WARNING SIGNS, LIGHTS OR OTHER DEVICES SOLELY AT THE DETERMINATION OF THE CONTRACTOR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE PREMISES OR ADJACENT PREMISES, OR INJURIES TO THE PUBLIC DURING THE CONSTRUCTION OF THE WORK, WHETHER CAUSED BY THE CONTRACTOR, SUBCONTRACTORS, OR THE CARELESSNESS OF ANY OF THEIR EMPLOYEES.
8. ALL PAY ITEMS HAVE BEEN EXPLICITLY SET FORTH AS SUCH IN THE PROPOSAL, ALL OTHER ITEMS OF COST ARE TO BE INCLUDED IN THE PRICE OF THE ITEMS ACTUALLY BID UPON.
9. THE CONTRACTOR SHALL PROVIDE SUCH BRACING, SHEETING AND SHORING, BLASTING PROTECTION, WARNING LIGHTS AND BARRICADES, ETC. AS MAY BE NECESSARY FOR THE PROTECTION OF LIFE AND PROPERTY FOR EMPLOYEES AND THE GENERAL PUBLIC. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY STATUTES AND RULES REQUIRING CERTAIN PROTECTIVE PERSONAL APPAREL SUCH AS HARD HATS, EAR PLUGS, EYE SHIELDS, PROTECTIVE SHOES, ETC. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY OR LIABILITY FOR ACTIONS TAKEN BY THE CONTRACTOR WHICH ENDANGER LIFE OR PROPERTY.
10. ANY FOREIGN ITEM FOUND DURING CONSTRUCTION IS THE PROPERTY OF THE LAND OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, PRECIOUS METALS, COINS, PAPER CURRENCY, ARTIFACTS AND ANTIQUITIES.
11. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS TO INSURE THAT THE NEW WORK SHALL FIT INTO THE EXISTING SITE. IN THE MANNER INTENDED AND AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THE INFORMATION SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY WORK IN THE AREA INVOLVING DIFFERENCES. NOTIFICATION SHALL BE IN THE FORM OF A DRAWING OR SKETCH INDICATING FIELD MEASUREMENTS AND NOTES RELATING TO THE AREA.
12. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A NEAT AND ORDERLY CONDITION AT ALL TIMES, DAILY, AND MORE OFTEN IF NECESSARY, INSPECT & AND PICK UP ALL SCRAP, DEBRIS, & WASTE MATERIALS.
13. THE CONTRACTOR SHALL PROVIDE PROTECTION TO ALL FINISHED WORK, MAINTAIN SURFACES CLEAN, UNMARKED, AND SUITABLY PROTECTED UNTIL ACCEPTANCE BY OWNER.



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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO TENNESSEE**

REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE	
MASTER PLAN AND GENERAL NOTES	

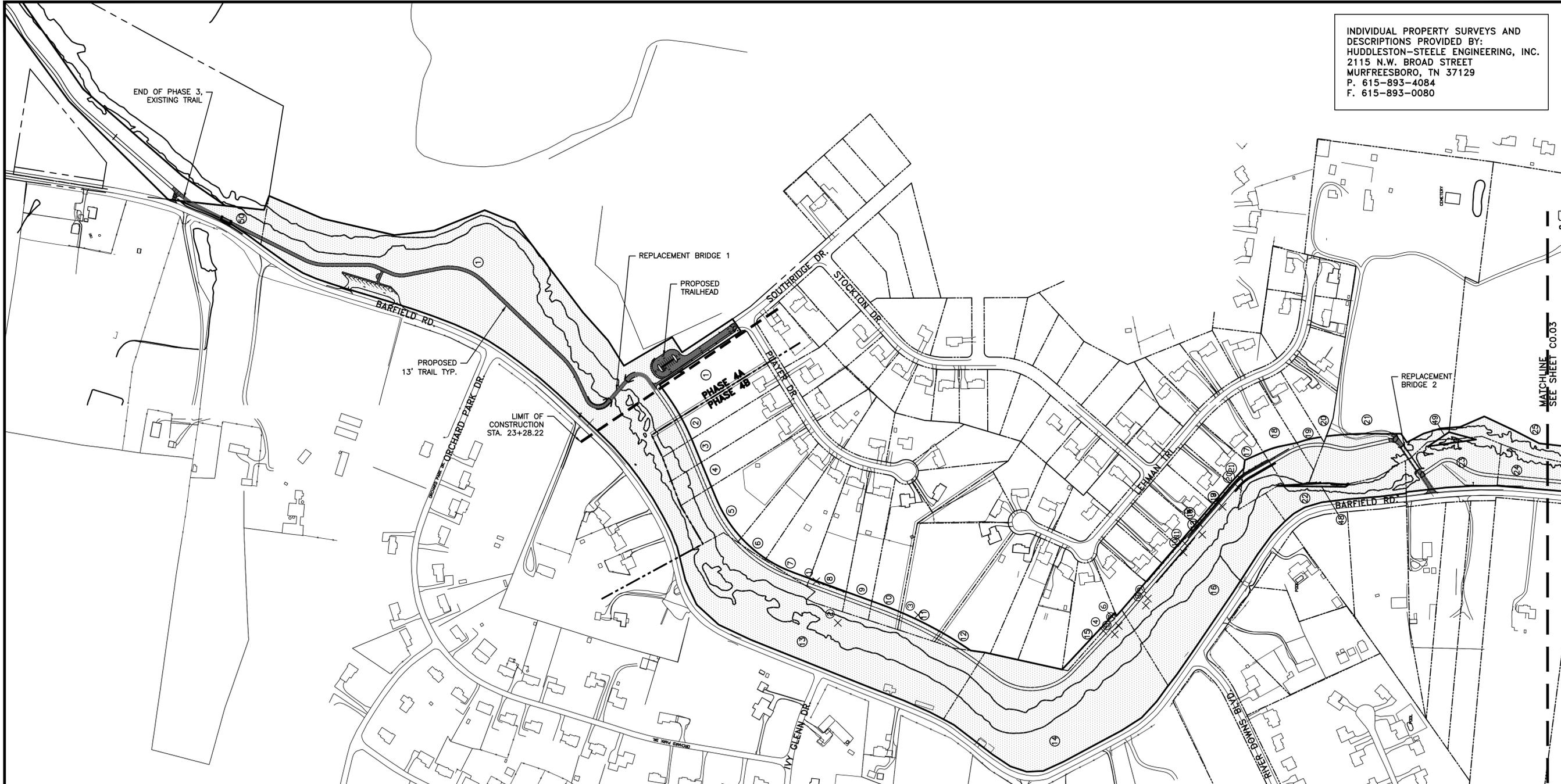
PROJECT NUMBER	DATE
01018	4-18-2014
DRAWN BY	SCALE
BB	N/A
CHECKED BY	
LD	
SHEET NUMBER	

**C0.02**

INDIVIDUAL PROPERTY SURVEYS AND DESCRIPTIONS PROVIDED BY:  
 HUDDLESTON-STEELE ENGINEERING, INC.  
 2115 N.W. BROAD STREET  
 MURFREESBORO, TN 37129  
 P. 615-893-4084  
 F. 615-893-0080



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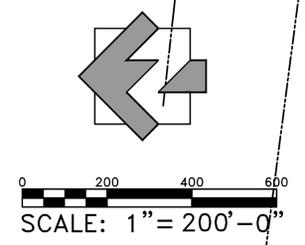


MATCHLINE SEE SHEET C0.03

**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
 MURFREESBORO TENNESSEE

GREENWAY ACQUISITION TABLE								
TRACT NUMBER	PROPERTY OWNERS	TAX MAP NUMBER	PARCEL NUMBER	DEED DOCUMENT REFERENCE BOOK NO.	PAGE	ESTIMATED TOTAL PARCEL AREA	PARCEL AREA TO BE ACQUIRED	PHASE
1	F.F.J. Ventures	113	36	D.B. 512	673	50.49 tax roll	15.52	4A
2	Nicole Stienhurst	113P, B	75.00	R.B. 64	2331	1.27 plat	0.32	4B
3	Randy B. Blackmer and Jacqueline Shepard	113P, B	74.00	R.B. 851	1015	1.31 plat	0.32	4B
4	Channa Johnson	113P, B	73.00	R.B. 684	1770	1.42 plat	0.35	4B
5	Phillip Klarer, et ux	113P, B	72.00	R.B. 80	678	2.35 plat	0.62	4B
6	Mathew D. Kelly	113P, B	71.00	R.B. 529	130	1.26 plat	0.04	4B
7	William A. Thomas, et ux	113P, B	70.00	R.B. 81	1786	1.59 plat	0.07	4B
8	Peggy Jungwirth, et al	113P, B	69.00	R.B. 56	2100	1.62 plat	0.29	4B
9	Sam Harbeson	113P, B	68.00	R.B. 830	2574	1.48 plat	0.20	4B
10	Shelby J. Tucker	113P, B	67.00	D.B. 651	159	1.68 plat	0.21	4B
11	Rodney R. Russell, et ux	113P, B	40.00	D.B. 649	747	3.06 plat	0.23	4B
12	Charles J. Mitchell, et ux	113P, B	39.00	D.B. 653	327	2.00 plat	0.09	4B
13	Charles B. Holden	114	11.00	R.B. 898	2997	8.42 deed	7.71	4B
14	E. Ray Lowery, et ux	114	12.08	D.B. 334	870	7.82 deed/survey	7.20	4B
15	Tommy L. Timberlake, et ux	113P, B	36.00	R.B. 60	2518	1.18 plat	0.11	4B
16	John Oscar Phillips, III	114	12.06	D.B. 354	670	3.50 tax roll	5.18	4B
17	Milton Crofford	113P, B	28.00	R.B. 509	1791	1.15 plat	0.52	4B
18	Johnnie W. Hunter, III	113P, B	27.00	R.B. 257	1372	1.38 plat	0.52	4B
19	Ronald Byers, et ux	113P, B	26.00	R.B. 3	26	0.83 plat	0.17	4B
20	John S. Farrar, et ux						Not Needed	
21	Steven D. Maloney, et ux Donna	125	4.03	R.B. 876	2646	10.92 deed	1.63	4B
22	David Whitner Thompson, et ux	124	9.00	R.B. 346	1864	1.30 deed/survey	1.14	4B
23	Mischa L. Nemeth, et ux	124	9.07	R.B. 388	2944	1.59 deed/plat	1.60	4B
24	Joseph M. Kincaid	124	9.02	R.B. 751	2647	1.29 deed	1.05	4B
25	Steve D. Maloney, et ux	125	4.02	D.B. 381	272	15.10 deed	0.95	4B

NOTE: DRAWINGS AND ACQUISITION TABLES DO NOT REFLECT DEED OVERLAPS OR CONFLICT AREAS. FIELD LOCATED STONES RIVER CENTERLINE IS USED FOR COMMON PROPERTY LINE WHERE IN QUESTION. SEE INDIVIDUAL PROPERTY SURVEY DRAWINGS AND DESCRIPTIONS FOR THESE AREAS.



REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

PROPERTY ACQUISITION INFORMATION	
PROJECT NUMBER	DATE
01018	4-18-2014
DRAWN BY	SCALE
MJP	1"=200'
CHECKED BY	
LD	
SHEET NUMBER	

**C0.03**

C:\1018\PHASE IV\SHEETS\C003.DWG, 2013-08-21

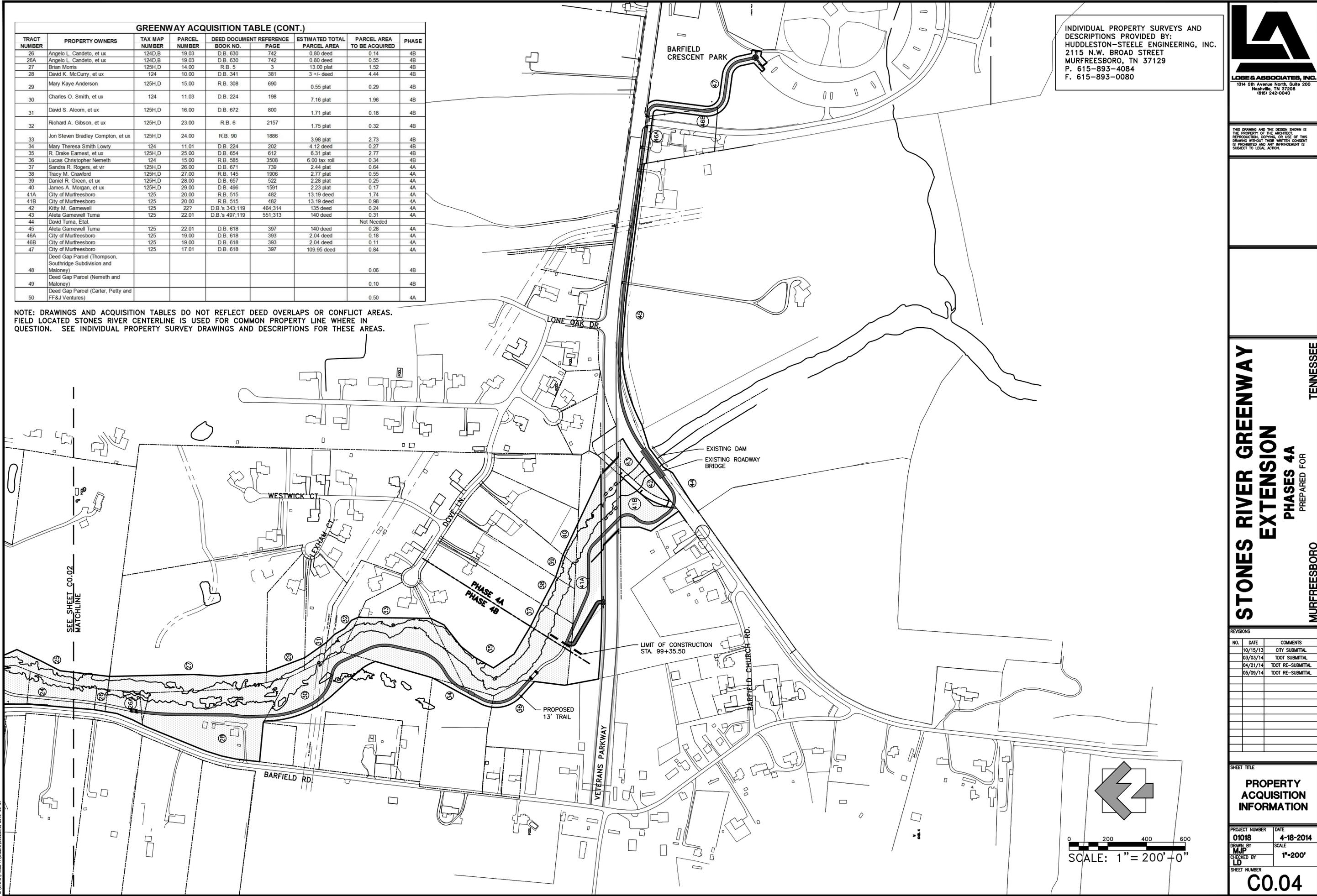
GREENWAY ACQUISITION TABLE (CONT.)								
TRACT NUMBER	PROPERTY OWNERS	TAX MAP NUMBER	PARCEL NUMBER	DEED DOCUMENT REFERENCE	ESTIMATED TOTAL PARCEL AREA	PARCEL AREA TO BE ACQUIRED	PHASE	
26	Angelo L. Candelo, et ux	124D,B	19.03	D.B. 630	742	0.80 deed	0.14	4B
26A	Angelo L. Candelo, et ux	124D,B	19.03	D.B. 630	742	0.80 deed	0.55	4B
27	Brian Morris	125H,D	14.00	R.B. 5	3	13.00 plat	1.52	4B
28	David K. McCurry, et ux	124	10.00	D.B. 341	381	3 +/- deed	4.44	4B
29	Mary Kaye Anderson	125H,D	15.00	R.B. 308	690	0.55 plat	0.29	4B
30	Charles O. Smith, et ux	124	11.03	D.B. 224	198	7.16 plat	1.96	4B
31	David S. Alcom, et ux	125H,D	16.00	D.B. 672	800	1.71 plat	0.18	4B
32	Richard A. Gibson, et ux	125H,D	23.00	R.B. 6	2157	1.75 plat	0.32	4B
33	Jon Steven Bradley Compton, et ux	125H,D	24.00	R.B. 90	1886	3.98 plat	2.73	4B
34	Mary Theresa Smith Lowry	124	11.01	D.B. 224	202	4.12 deed	0.27	4B
35	R. Drake Earnest, et ux	125H,D	25.00	D.B. 654	612	6.31 plat	2.77	4B
36	Lucas Christopher Nemeth	124	15.00	R.B. 585	3508	6.00 tax roll	0.34	4B
37	Sandra R. Rogers, et vir	125H,D	26.00	D.B. 671	739	2.44 plat	0.64	4A
38	Tracy M. Crawford	125H,D	27.00	R.B. 145	1906	2.77 plat	0.55	4A
39	Daniel R. Green, et ux	125H,D	28.00	D.B. 657	522	2.28 plat	0.25	4A
40	James A. Morgan, et ux	125H,D	29.00	D.B. 496	1591	2.23 plat	0.17	4A
41A	City of Murfreesboro	125	20.00	R.B. 515	482	13.19 deed	1.74	4A
41B	City of Murfreesboro	125	20.00	R.B. 515	482	13.19 deed	0.98	4A
42	Kitty M. Gamewell	125	227	D.B.'s 343,119	464,314	135 deed	0.24	4A
43	Aleta Gamewell Tuma	125	22.01	D.B.'s 497,119	551,313	140 deed	0.31	4A
44	David Tuma, Etal.						Not Needed	4A
45	Aleta Gamewell Tuma	125	22.01	D.B. 618	397	140 deed	0.28	4A
46A	City of Murfreesboro	125	19.00	D.B. 618	393	2.04 deed	0.18	4A
46B	City of Murfreesboro	125	19.00	D.B. 618	393	2.04 deed	0.11	4A
47	City of Murfreesboro	125	17.01	D.B. 618	397	109.95 deed	0.84	4A
48	Deed Gap Parcel (Thompson, Southridge Subdivision and Maloney)						0.06	4B
49	Deed Gap Parcel (Nemeth and Maloney)						0.10	4B
50	Deed Gap Parcel (Carter, Petty and FF&J Ventures)						0.50	4A

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INDIVIDUAL PROPERTY SURVEYS AND DESCRIPTIONS PROVIDED BY:  
**HUDDLESTON-STEELE ENGINEERING, INC.**  
 2115 N.W. BROAD STREET  
 MURFREESBORO, TN 37129  
 P. 615-893-4084  
 F. 615-893-0080



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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO TENNESSEE**

REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

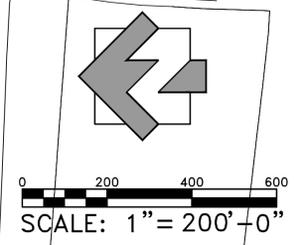
**PROPERTY ACQUISITION INFORMATION**

PROJECT NUMBER: **01018** DATE: **4-18-2014**

DRAWN BY: **MJP** SCALE: **1"=200'**

CHECKED BY: **LD**

SHEET NUMBER: **C0.04**





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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO** TENNESSEE



MATCHLINE  
SEE BELOW

EXISTING UTILITY POLE (TYP.); CONTRACTOR TO RELOCATE POLES AND GUY WIRE AS NEEDED TO AVOID TRAIL. COORDINATE RELOCATION WITH UTILITY COMPANY

EXISTING CONCRETE BRIDGE AND OVERFLOW PIPING TO BE REMOVED COMPLETELY. CONTRACTOR TO SUBMIT DETAILS AND SCHEDULE FOR COFFER DAM CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING THE STONES RIVER. ALL WORK TO COMPLY WITH PERMIT CONDITIONS. NO WORK ON BRIDGE ALLOWED UNTIL ISSUANCE OF ARAP/ACOE PERMIT.

PHASE 4A LIMIT OF CONSTRUCTION STA. 23+28.22

SEE ABOVE MATCHLINE

NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE  
**EXISTING CONDITIONS AND DEMOLITIONS**

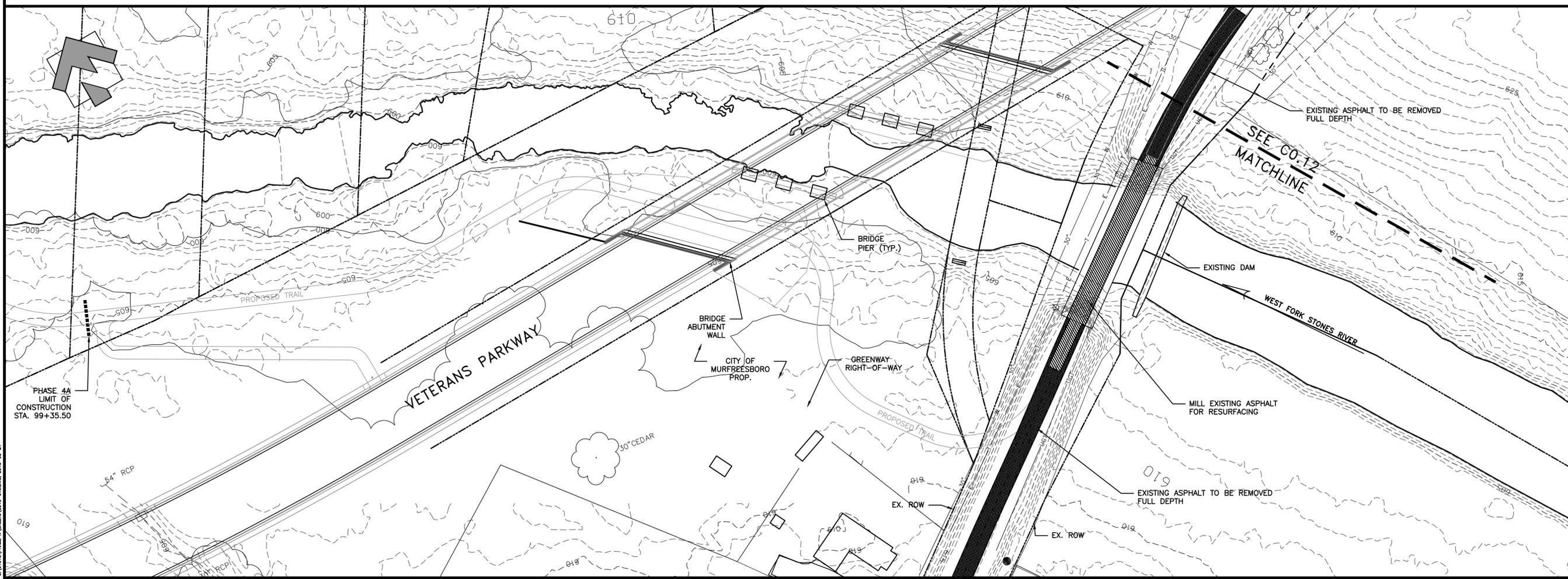
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 DRAWN BY: **BB** SCALE: **1"=50'**  
 CHECKED BY: **LD**

SHEET NUMBER  
**C0.10**

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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO** **TENNESSEE**



REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE	
<b>EXISTING CONDITIONS AND DEMOLITIONS</b>	

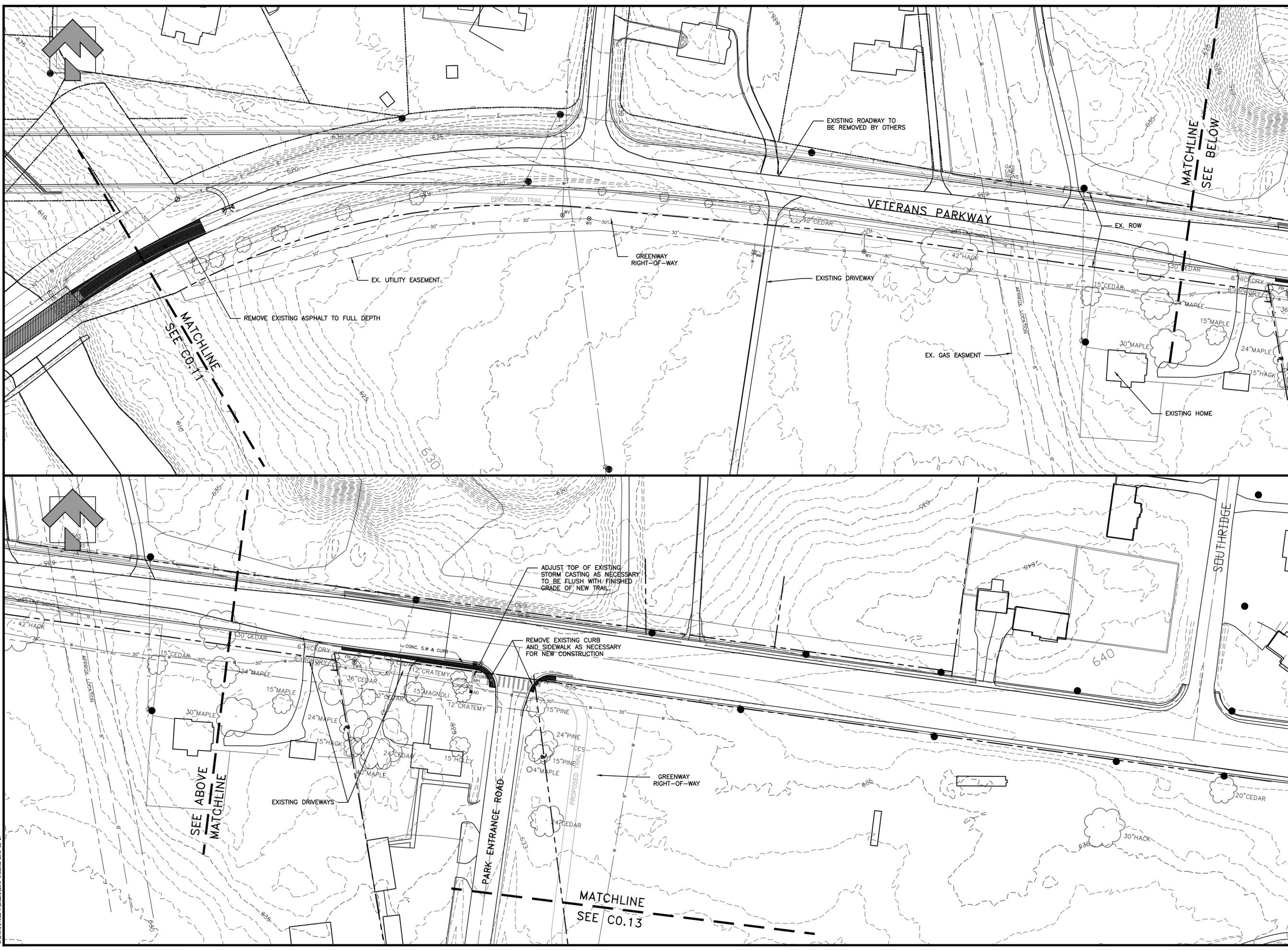
PROJECT NUMBER	DATE
01018	4-18-2014
DRAWN BY	SCALE 1"=50'
BB	0 50
CHECKED BY	
LD	
SHEET NUMBER	

**C0.11**

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**STONES RIVER GREENWAY  
 EXTENSION  
 PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO**      **TENNESSEE**



REVISIONS

NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE

**EXISTING  
 CONDITIONS AND  
 DEMOLITIONS**

PROJECT NUMBER: **01018**      DATE: **4-18-2014**  
 DRAWN BY: **BB**      SCALE: 1" = 50'  
 CHECKED BY: **LD**      0 50

SHEET NUMBER: **C0.12**

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**STONES RIVER GREENWAY  
EXTENSION  
PHASES 4A**  
PREPARED FOR  
MURFREESBORO  
TENNESSEE

NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE  
**EXISTING  
CONDITIONS AND  
DEMOLITIONS**

PROJECT NUMBER: **01018** DATE: **4-18-2014**  
 DRAWN BY: **BB** SCALE: 1"=50'  
 CHECKED BY: **LD** 0 50  
 SHEET NUMBER

**C0.13**

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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO** **TENNESSEE**

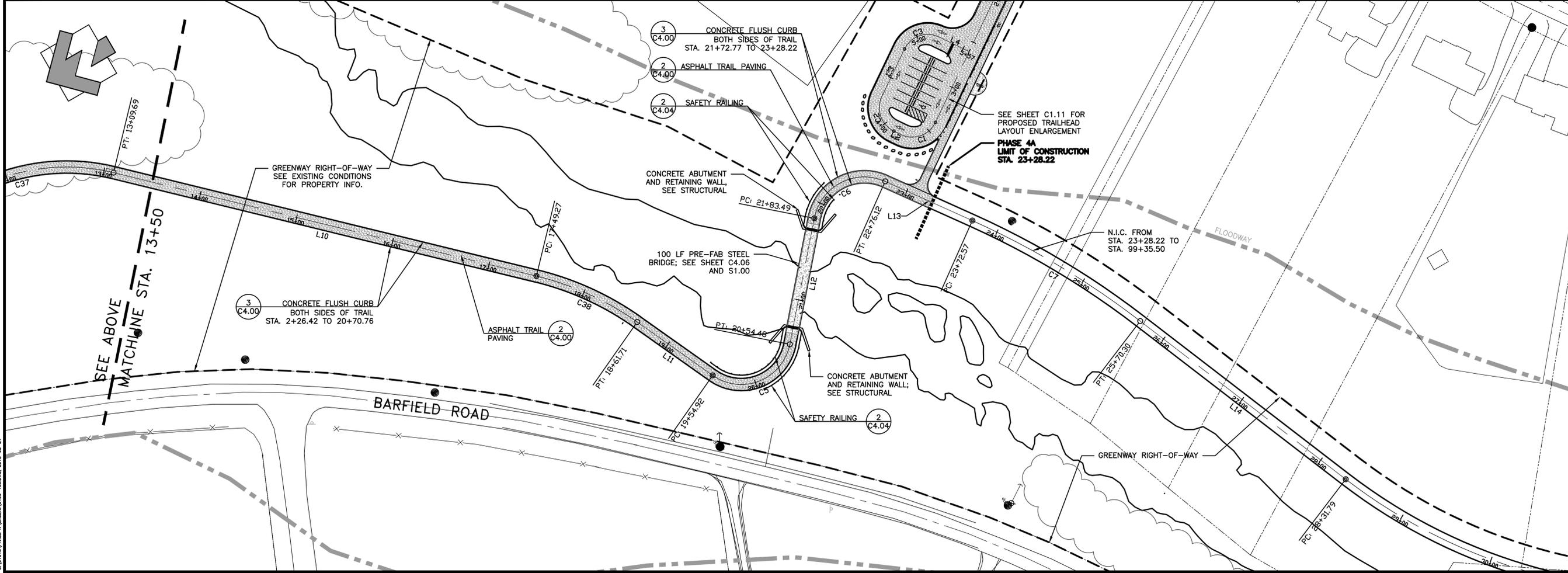
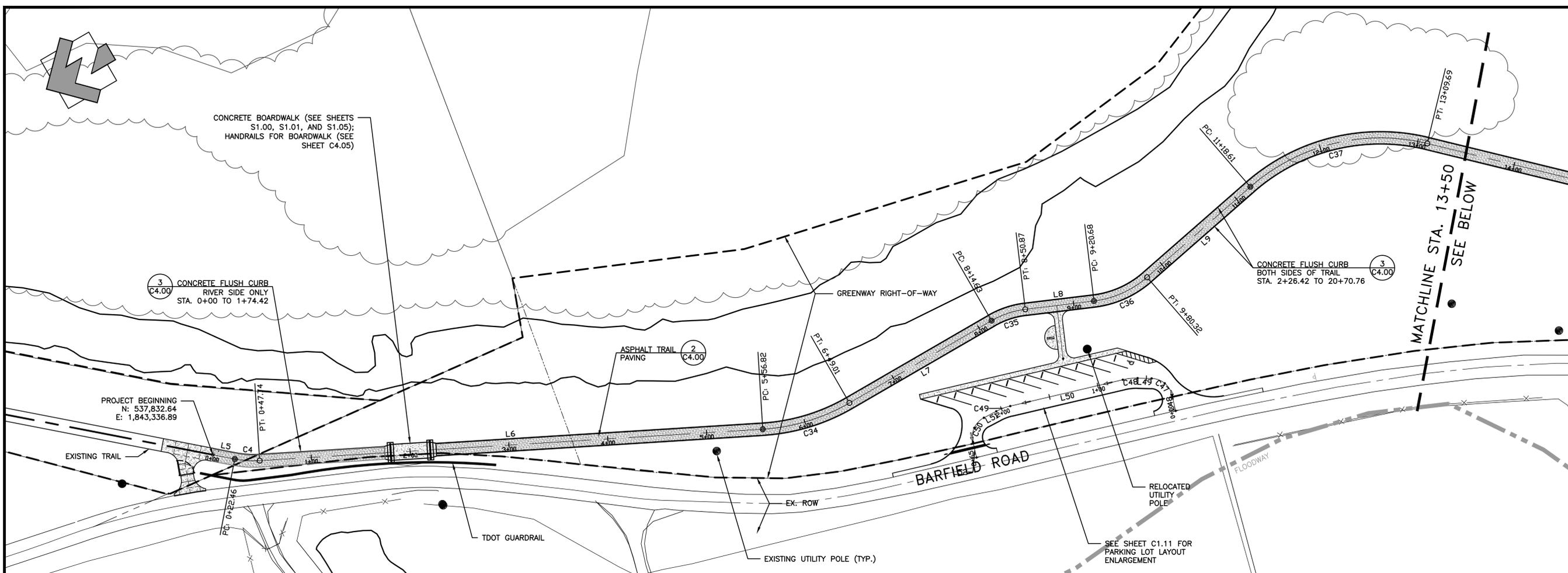
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

REVISIONS	
NO.	DATE

SHEET TITLE  
**TRAIL LAYOUT PLAN**

PROJECT NUMBER: **01018** DATE: **4-18-2014**  
 DRAWN BY: **BB** SCALE: **1"=50'**  
 CHECKED BY: **LD** 0 50  
 SHEET NUMBER

**C1.00**



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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
PREPARED FOR  
MURFREESBORO TENNESSEE

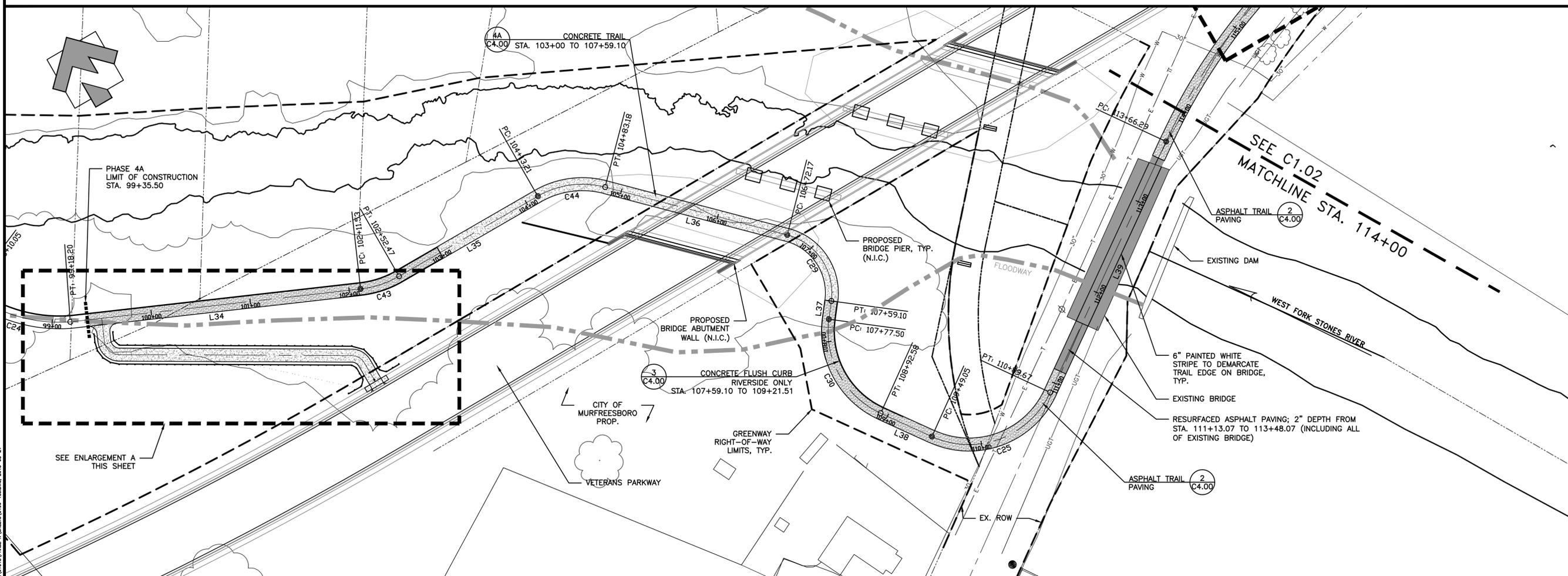
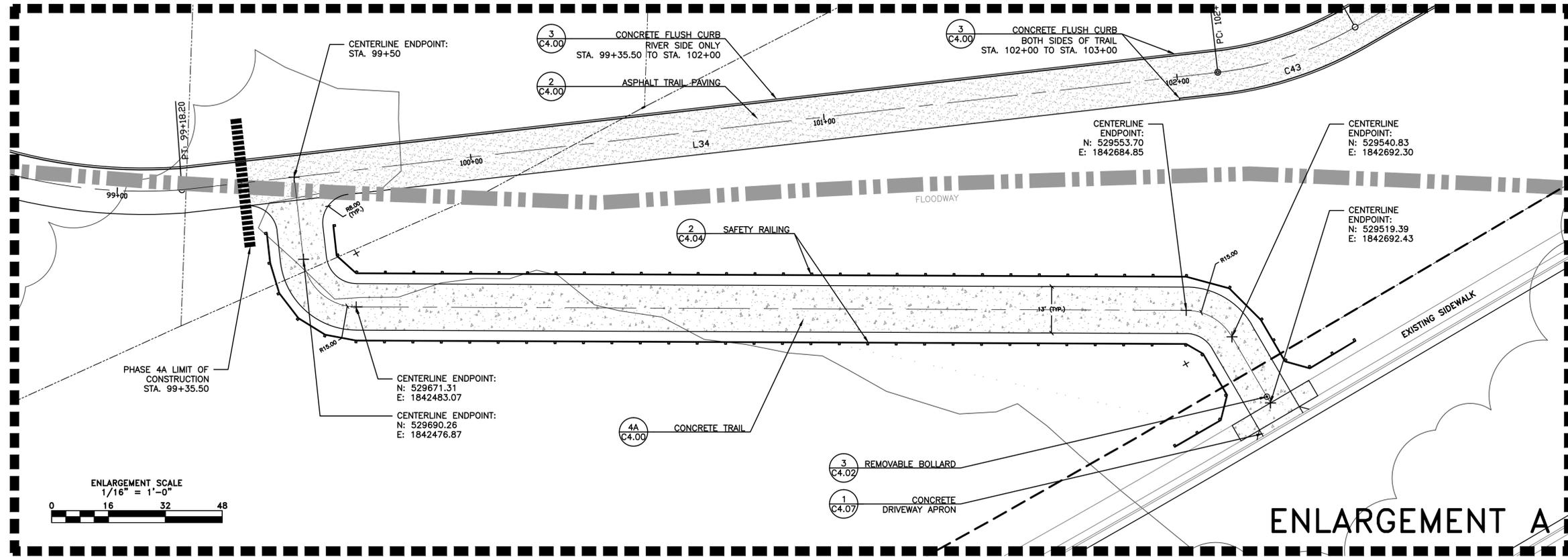
REVISIONS

NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

**TRAIL LAYOUT PLAN**

PROJECT NUMBER	DATE
01018	4-18-2014
DRAWN BY	SCALE 1"=50'
BB	0 50
CHECKED BY	
LD	
SHEET NUMBER	

**C1.01**



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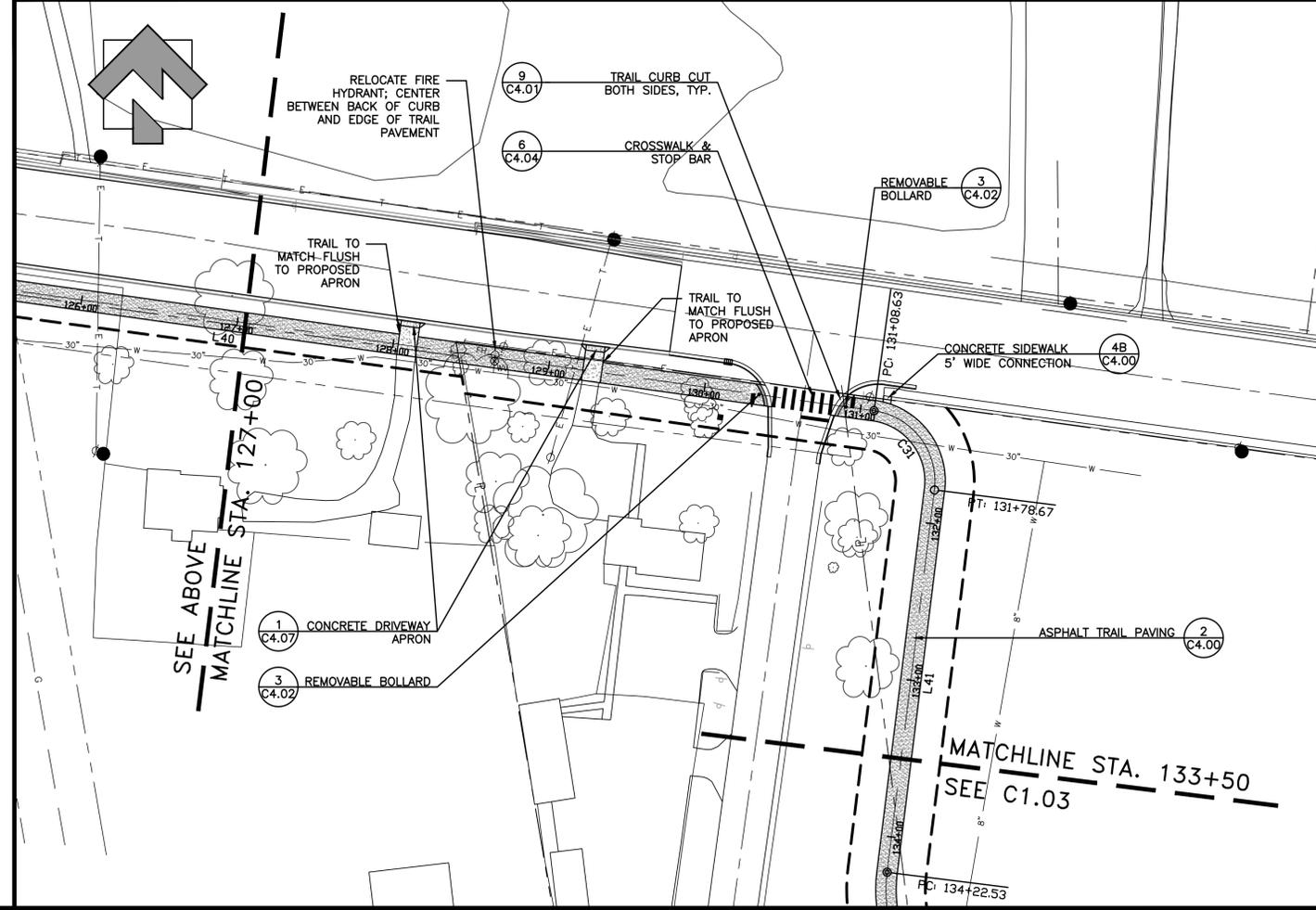
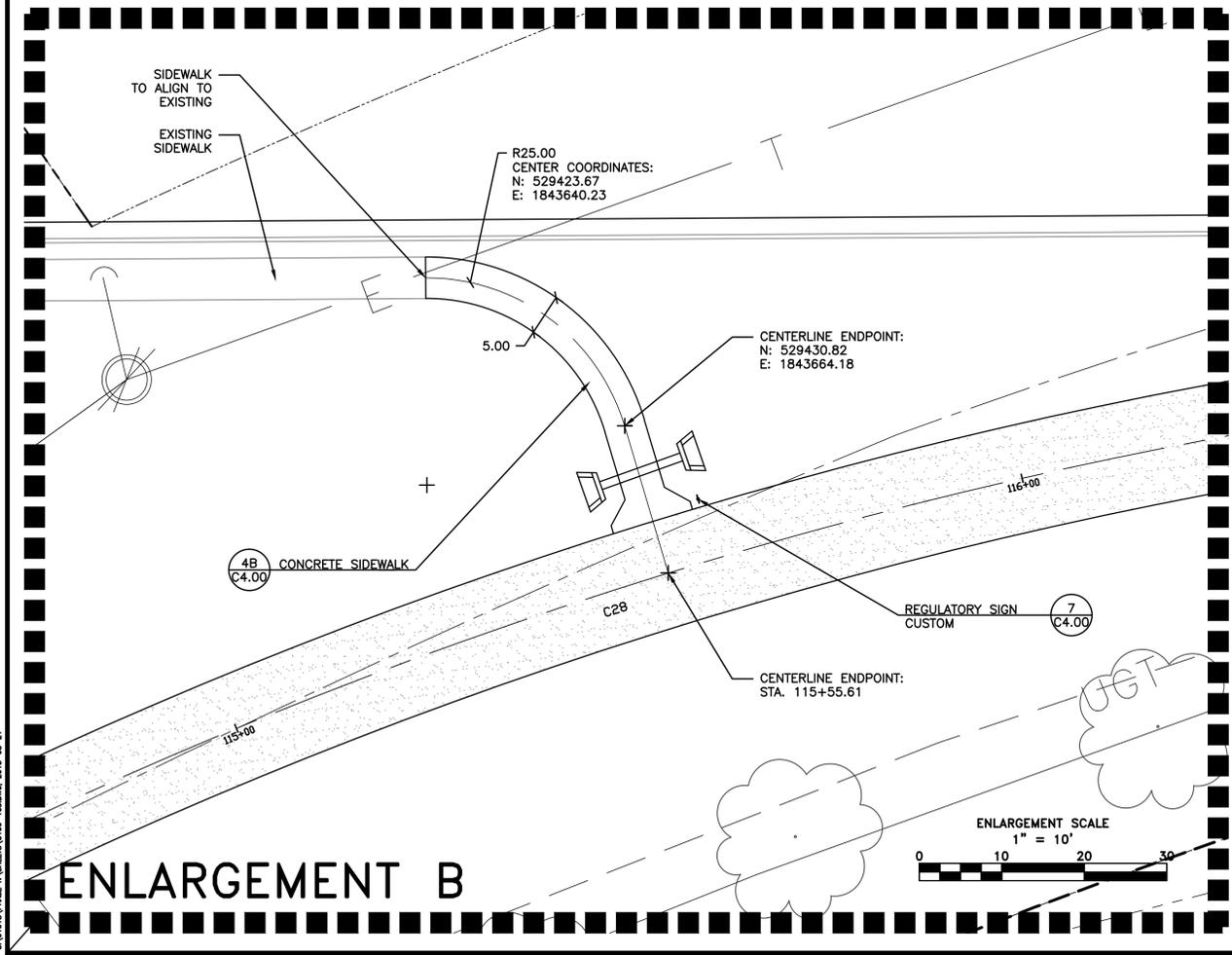
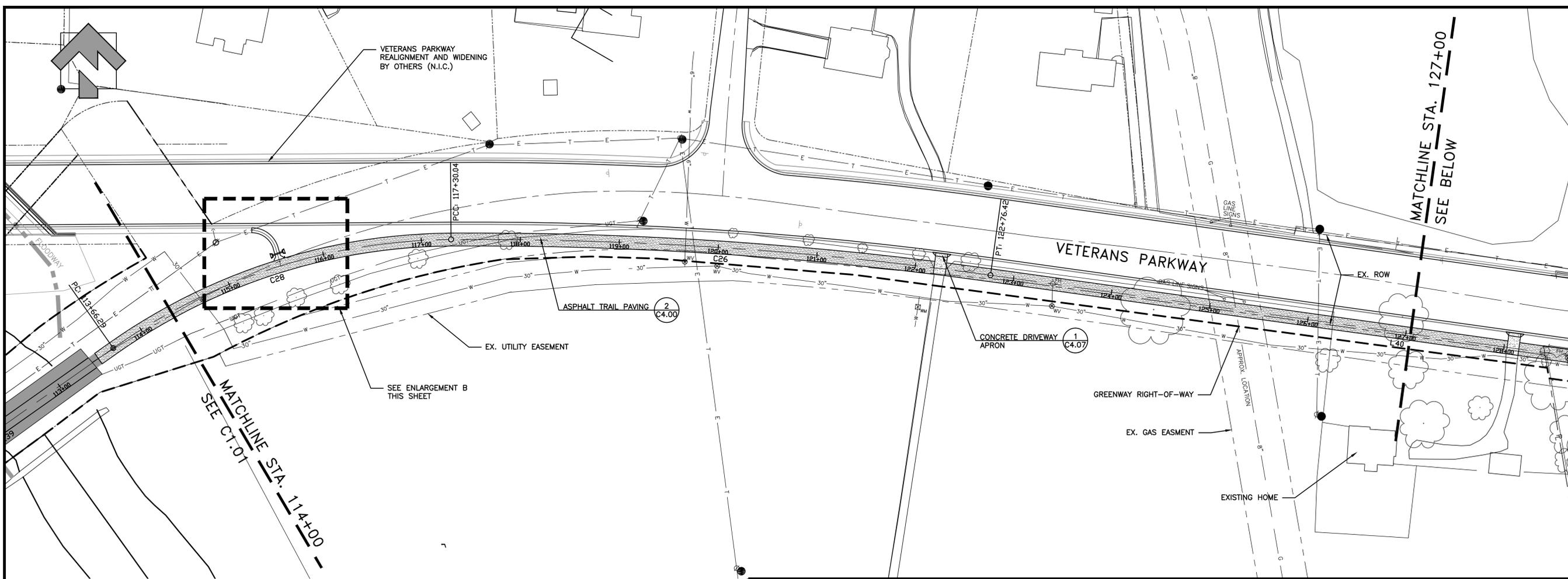
**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
PREPARED FOR  
**MURFREESBORO** TENNESSEE

REVISIONS

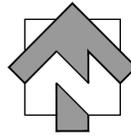
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

**TRAIL LAYOUT PLAN**

PROJECT NUMBER <b>01018</b>	DATE <b>4-18-2014</b>
DRAWN BY <b>BB</b>	SCALE 1" = 50'
CHECKED BY <b>LD</b>	SCALE 0 50
SHEET NUMBER <b>C1.02</b>	



C:\01018\PHASE IV\SHEETS\C1.02-106.DWG, 2013-09-21



SEE C1.02  
MATCHLINE STA. 133+50

2  
C4.00 ASPHALT TRAIL PAVING

SEE ENLARGEMENT C  
THIS SHEET

EXISTING PARK ENTRY DRIVE

EXISTING PARKING

EXISTING ASPHALT TRAIL

ATHLETIC FIELD

ATHLETIC FIELD

ATHLETIC FIELD

ATHLETIC FIELD

# ENLARGEMENT C

2  
C4.00 ASPHALT TRAIL PAVING

1  
C4.08 TRAIL MAP & RULES SIGN

4B  
C4.00 CONCRETE SIDEWALK

6  
C4.02 STAMPED CONCRETE

4B  
C4.00 CONCRETE SIDEWALK

SIDEWALK CENTERLINE  
ENDPOINT:  
N: 528704.38  
E: 1845451.81

CUT AND PATCH  
ASPHALT AS NECESSARY  
TO PROVIDE CLEAN,  
FLUSH TRANSITION

6" WHITE  
PAINTED  
STRIPING  
PER SPEC

9' 21'-10"

R15.00  
CENTER COORDINATES:  
N: 528735.48  
E: 1845494.23

R10.00  
CENTER COORDINATES:  
N: 528733.47  
E: 1845494.77

R6.00  
CENTER COORDINATES:  
N: 528735.48  
E: 1845494.23

R5.00, TYP.

EXISTING ASPHALT  
WALKING TRAIL

WASTE  
RECEPTACLE 2  
C4.02

SIDEWALK CENTERLINE  
ENDPOINT:  
N: 528729.80  
E: 1845525.05

BENCH  
(TYP.) 1  
C4.02

WASTE RECEPTACLE 2  
C4.02

REMOVABLE  
BOLLARD 3  
C4.02

HANDICAP SIDEWALK  
RAMP 8  
C4.01

EXISTING ASPHALT PARKING LOT

ENLARGEMENT SCALE  
1" = 10'



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Nashville, TN 37208  
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# STONES RIVER GREENWAY EXTENSION PHASES 4A PREPARED FOR

REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

## TRAIL LAYOUT PLAN

PROJECT NUMBER: **01018** DATE: **4-18-2014**  
DRAWN BY: **BB** SCALE: 1" = 50'  
CHECKED BY: **LD** SHEET NUMBER: **C1.03**

C:\01018\PHASE IV\SHEETS\C1.03-106.DWG, 2013-09-21

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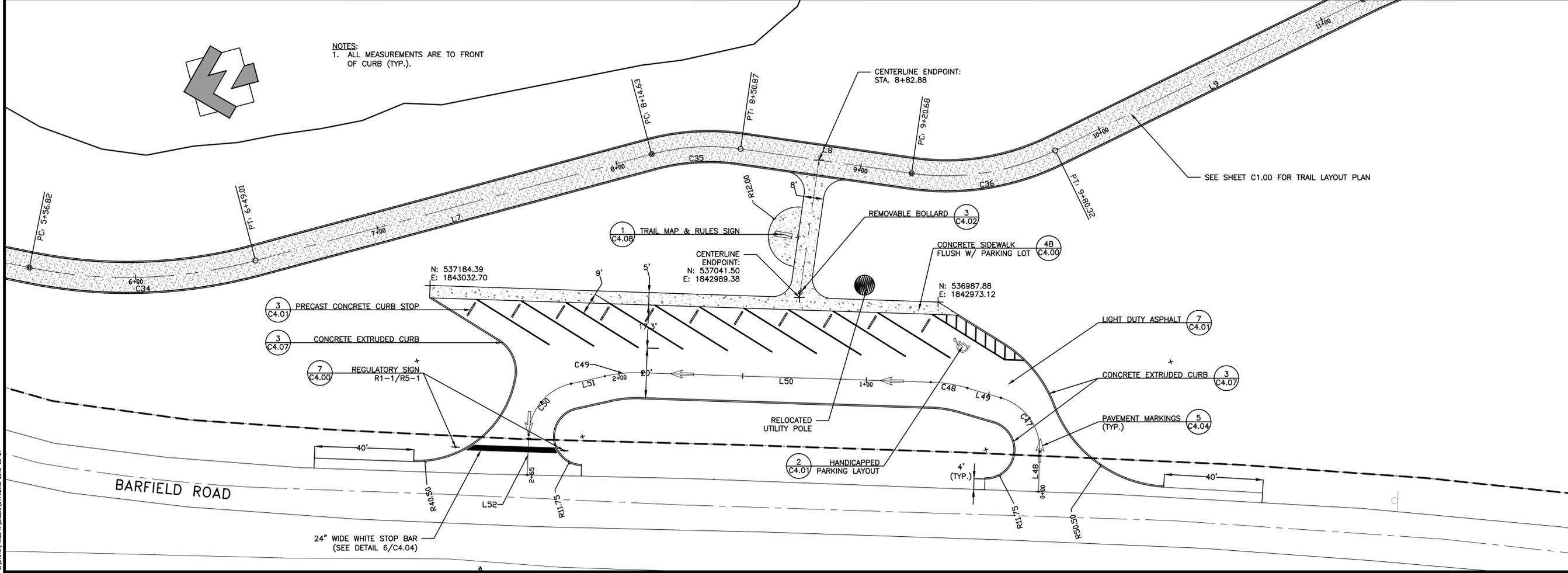
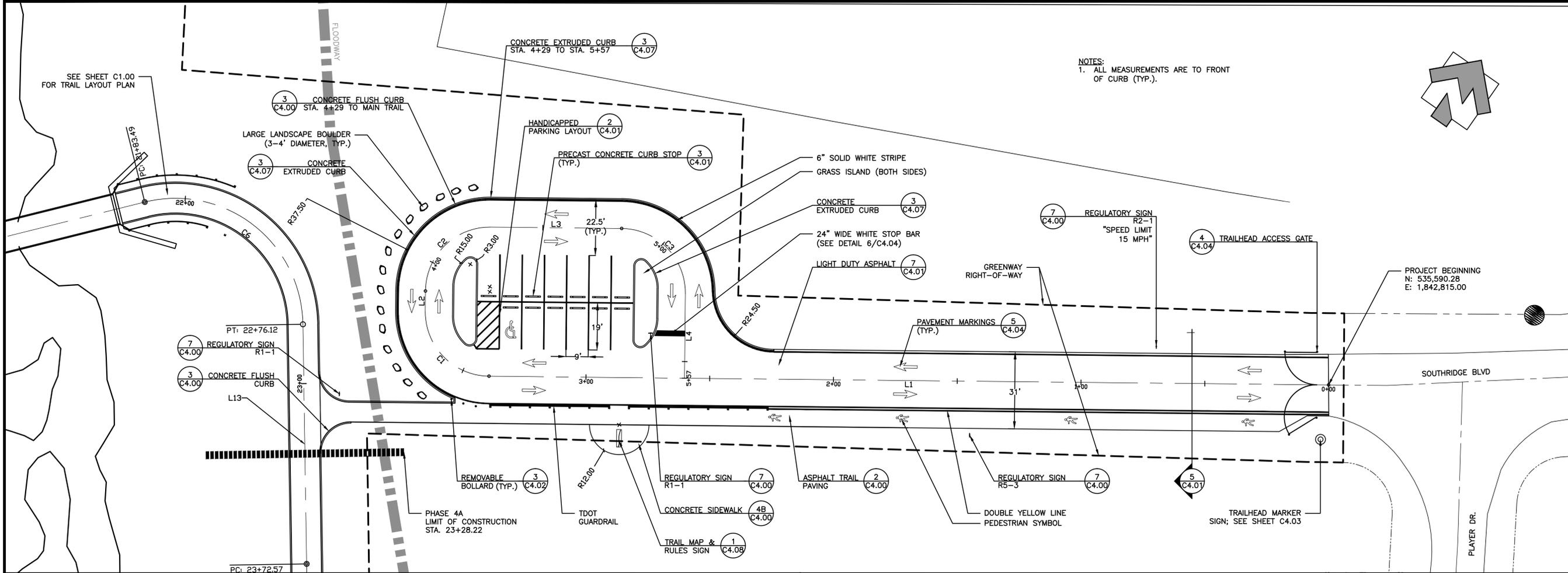
**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
PREPARED FOR  
MURFREESBORO, TENNESSEE

REVISIONS

NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

**TRAILHEAD PARKING LAYOUT ENLARGEMENTS**

PROJECT NUMBER: 01018 DATE: 4-18-2014  
 DRAWN BY: BB SCALE: 1"=20'  
 CHECKED BY: LD  
 SHEET NUMBER: C1.11



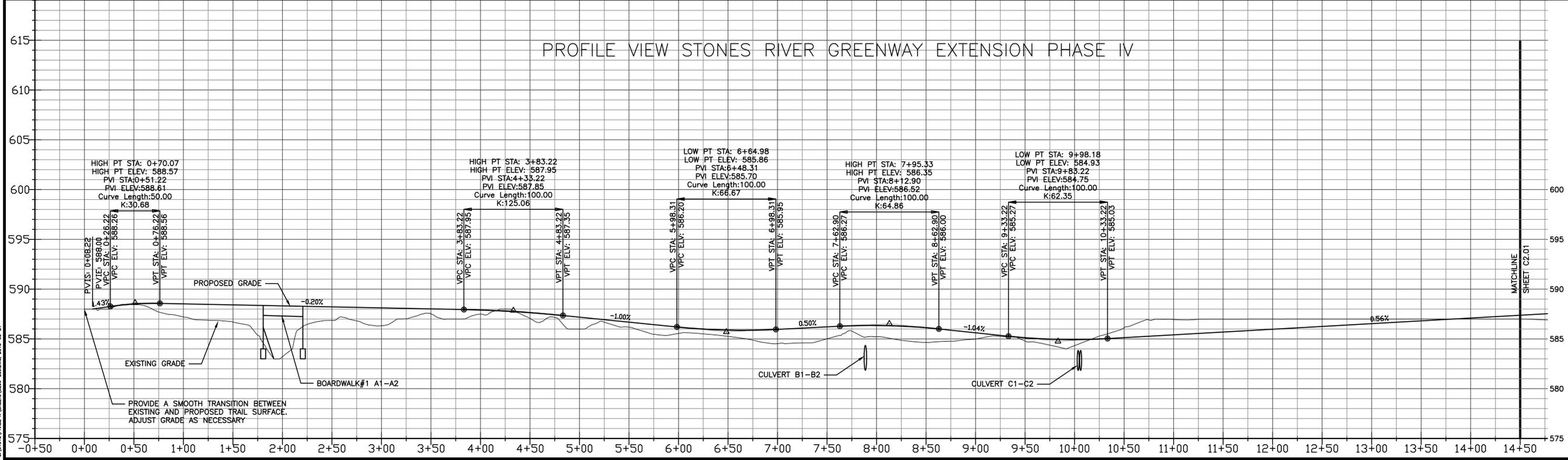
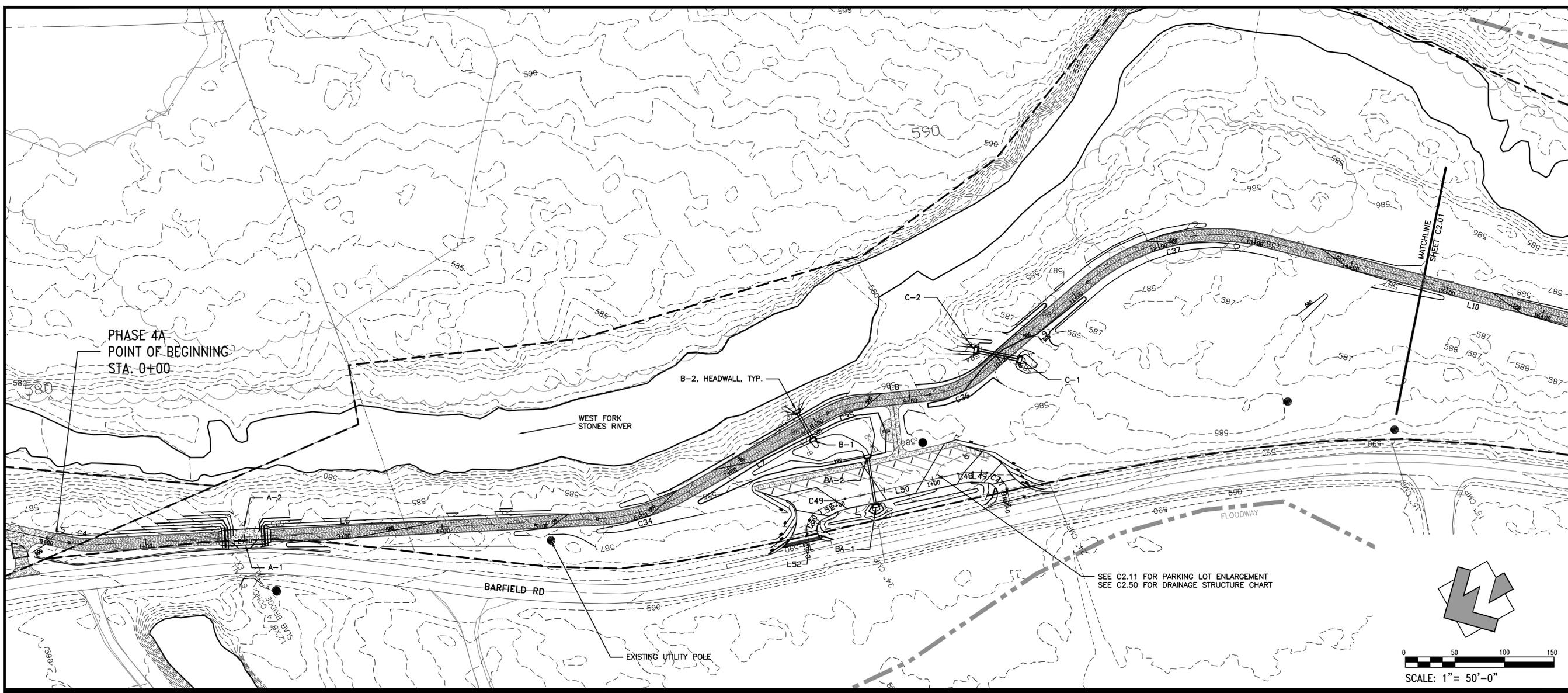
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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO**  
 TENNESSEE



REVISIONS

NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE

**TRAIL PROFILE, GRADING, AND DRAINAGE**

PROJECT NUMBER: 01018

DATE: 4-18-2014

DRAWN BY: BB

CHECKED BY: LD

SCALE: 1"=50'-0" V

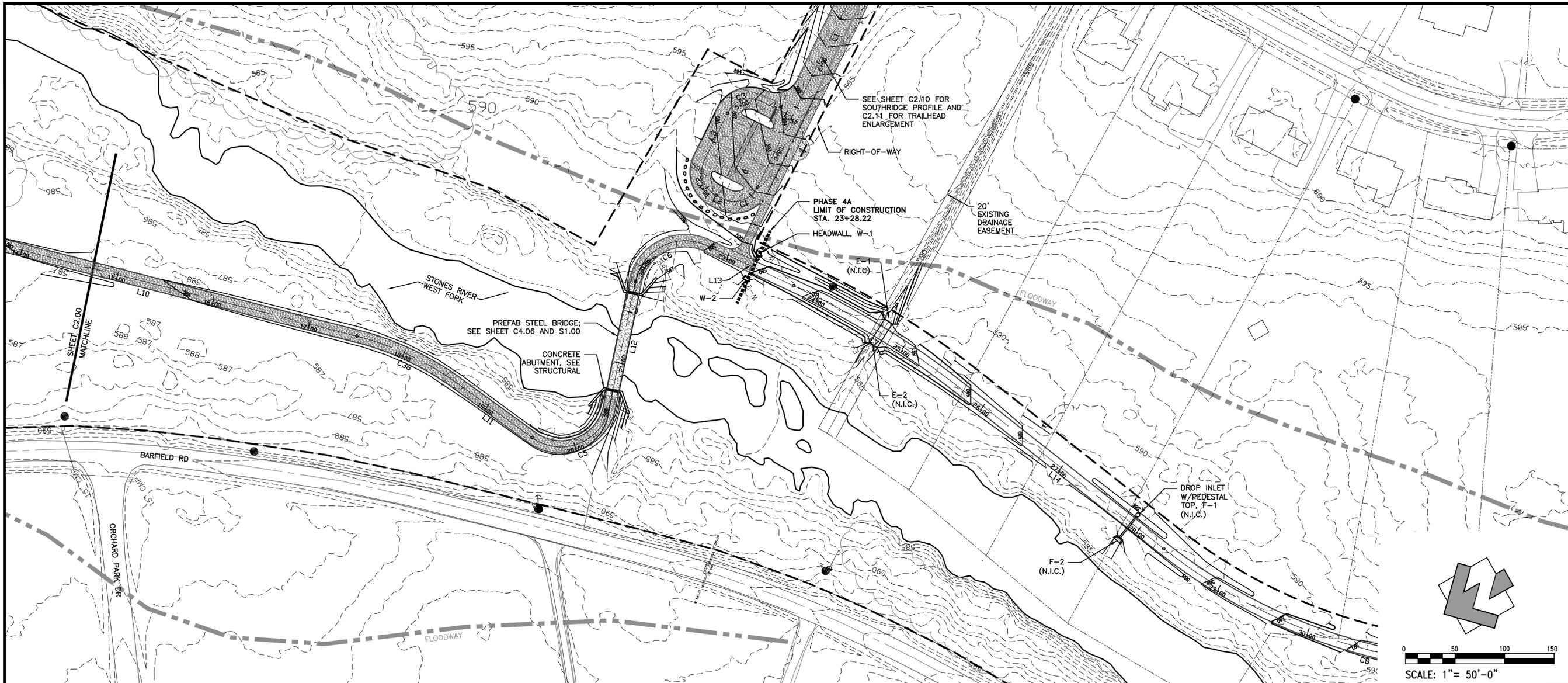
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**C2.00**

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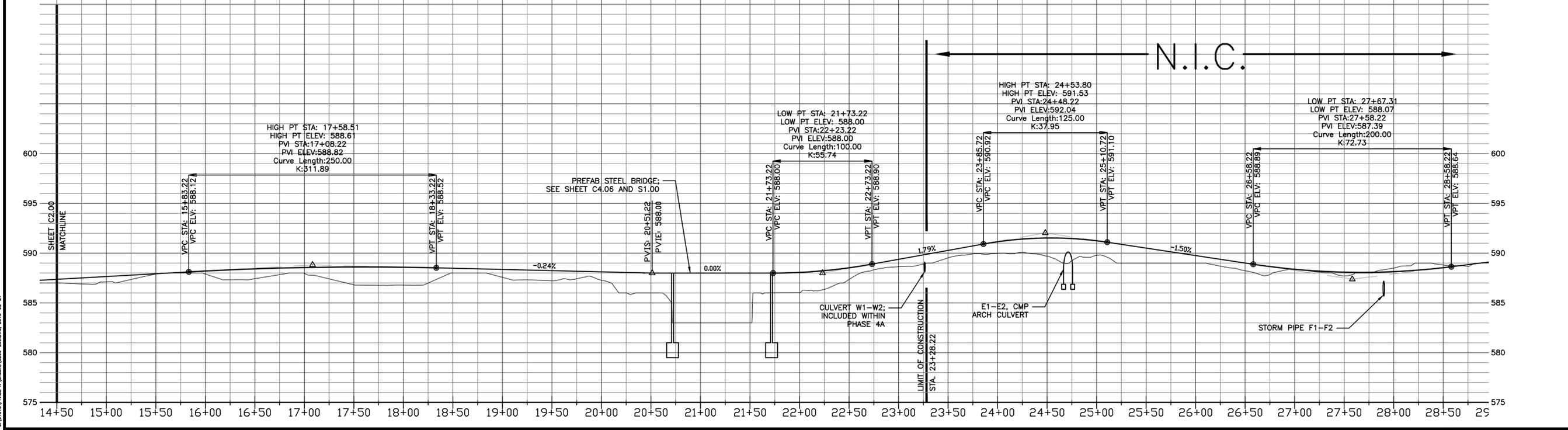
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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO**  
 TENNESSEE



PROFILE VIEW STONES RIVER GREENWAY EXTENSION PHASE IV



REVISIONS

NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE

**TRAIL PROFILE, GRADING, AND DRAINAGE**

PROJECT NUMBER: **01018** DATE: **4-18-2014**

DRAWN BY: **BB** SCALE: **1"=50'-0"**

CHECKED BY: **LD** SCALE: **1"=5'-0" V**

SHEET NUMBER  
**C2.01**

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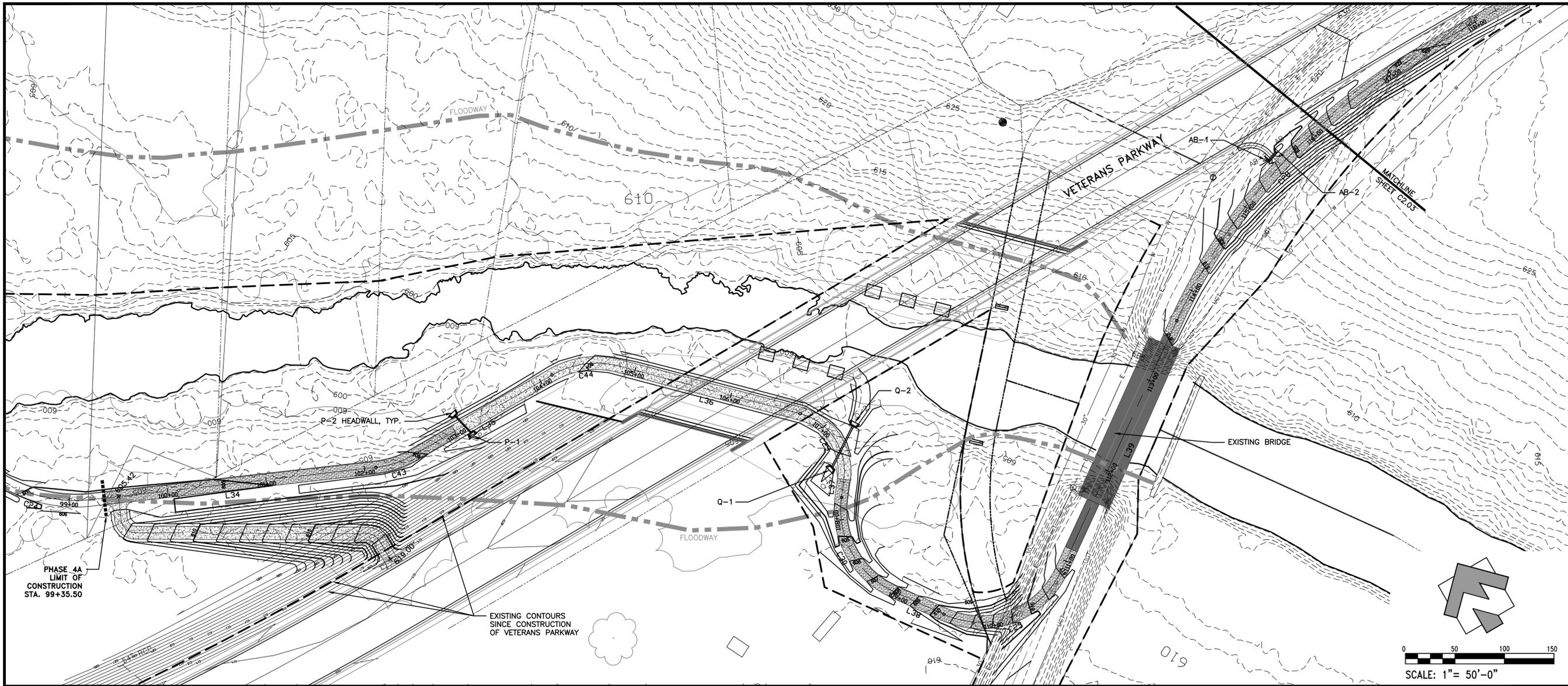


**LOSE & ASSOCIATES, INC.**  
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 Nashville, TN 37208  
 (615) 242-0040

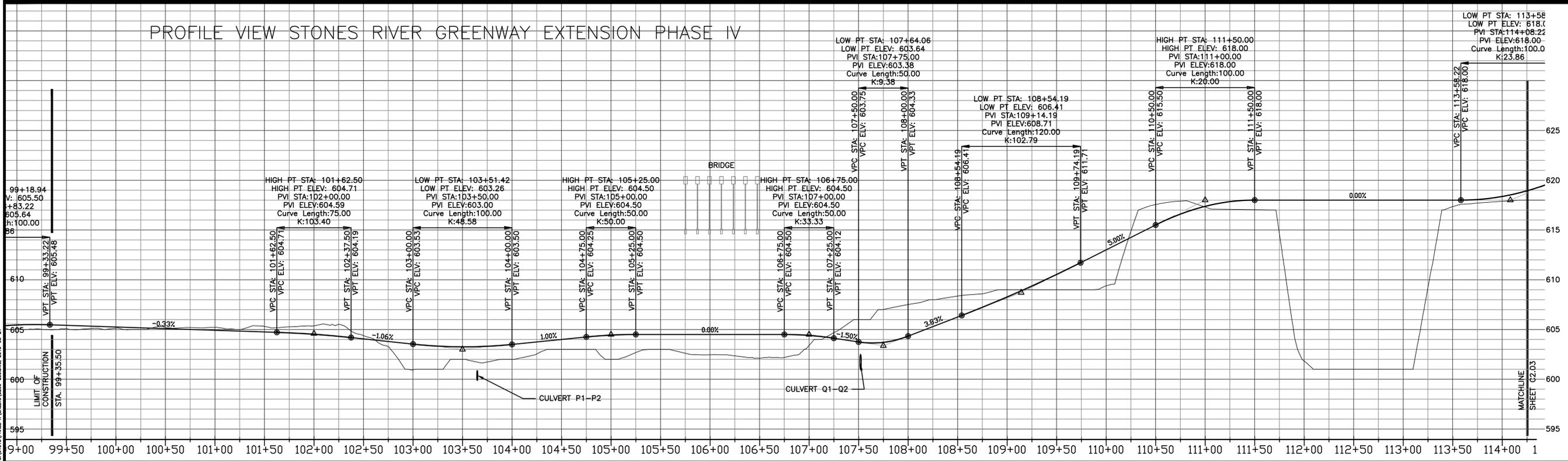
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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO**  
 TENNESSEE



PROFILE VIEW STONES RIVER GREENWAY EXTENSION PHASE IV



NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

**TRAIL PROFILE, GRADING, AND DRAINAGE**

PROJECT NUMBER: **01018** DATE: **4-18-2014**  
 DRAWN BY: **BB** SCALE: **1"=50'-0"**  
 CHECKED BY: **LD** SCALE: **1"=5'-0" V**

SHEET NUMBER: **C2.02**

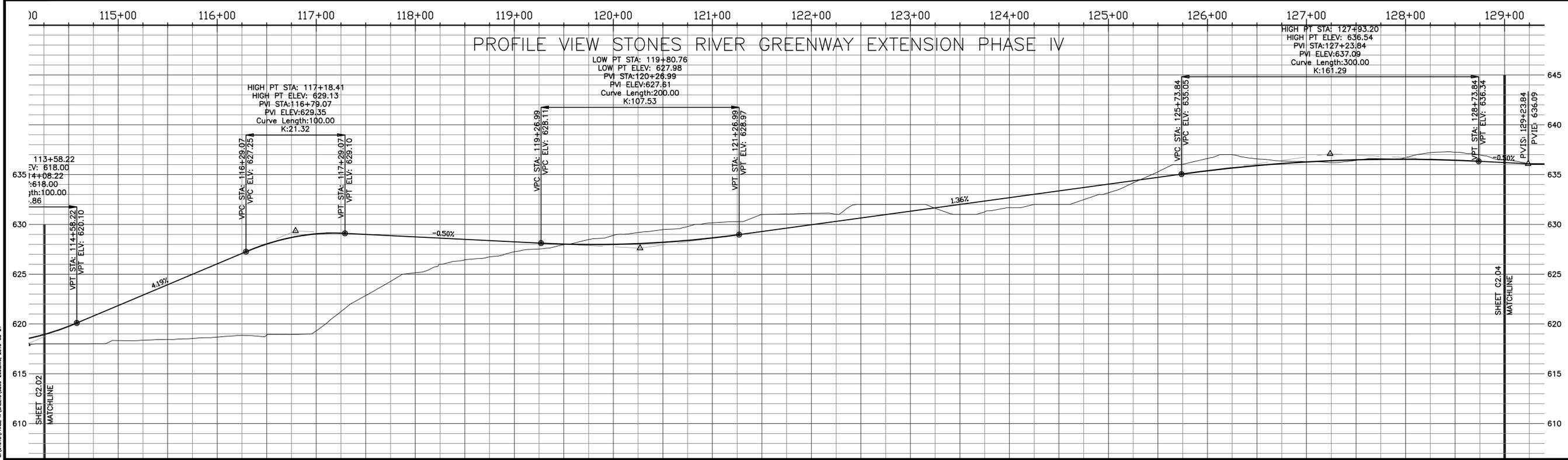


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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
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04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE

**TRAIL PROFILE, GRADING, AND DRAINAGE**

PROJECT NUMBER: **01018** DATE: **4-18-2014**

DRAWN BY: **BB** SCALE: **1"=50'-0"**

CHECKED BY: **LD** SCALE: **1"=5'-0" V**

SHEET NUMBER

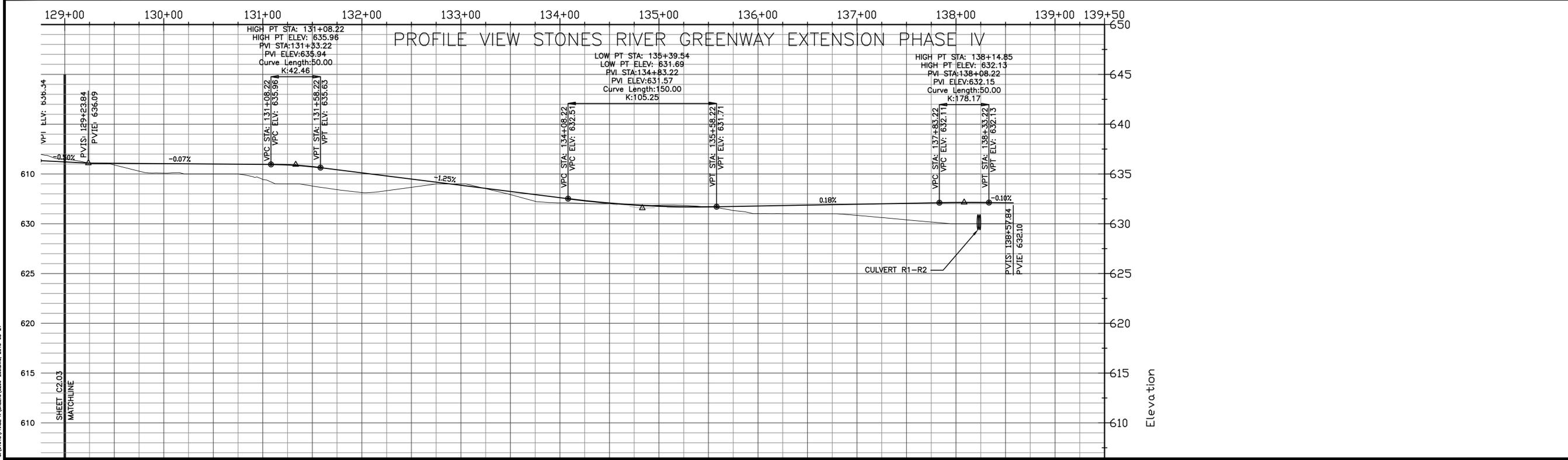
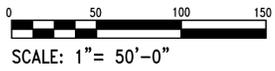
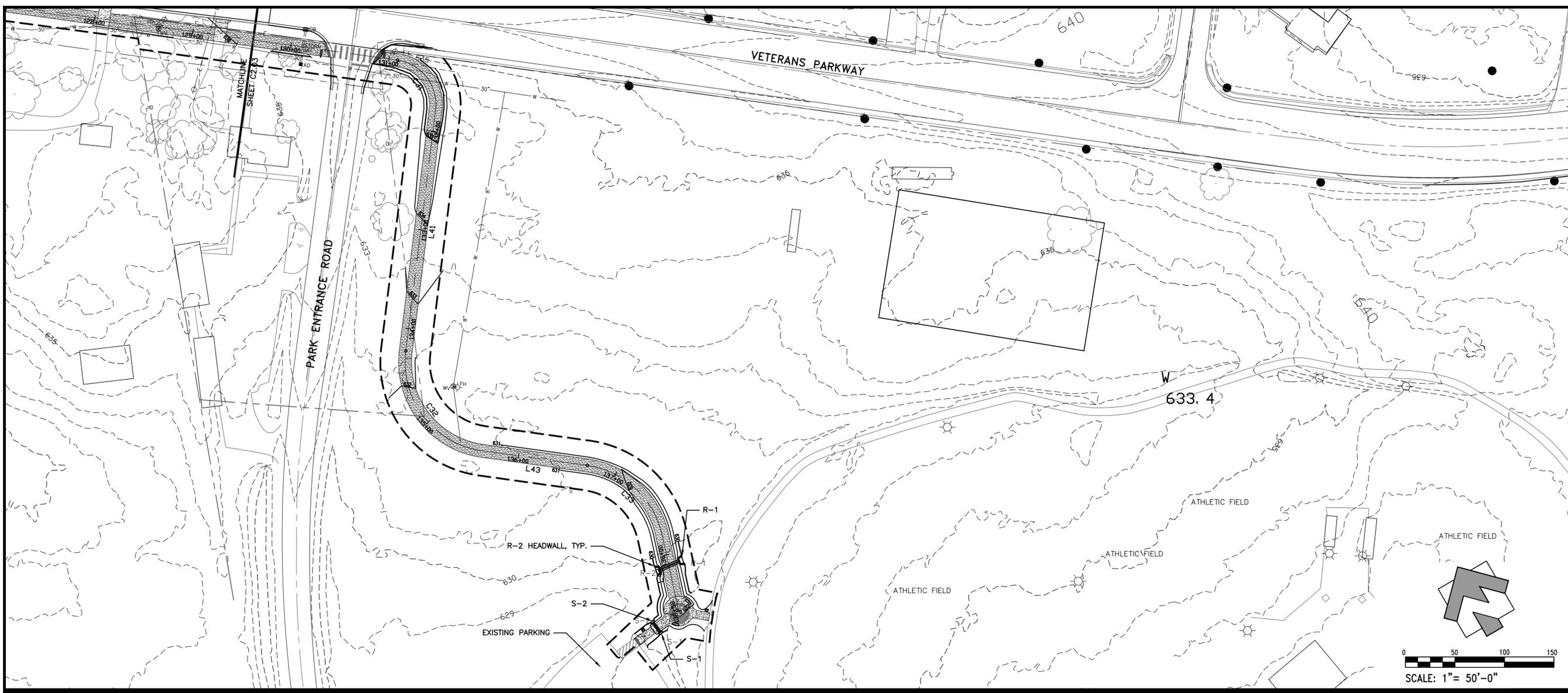
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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
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 TENNESSEE



REVISIONS

NO.	DATE	COMMENTS
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03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE  
**TRAIL PROFILE, GRADING, AND DRAINAGE**

PROJECT NUMBER: **01018** DATE: **4-18-2014**  
 DRAWN BY: **BB** SCALE: **1"=50'-0"**  
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SHEET NUMBER  
**C2.04**





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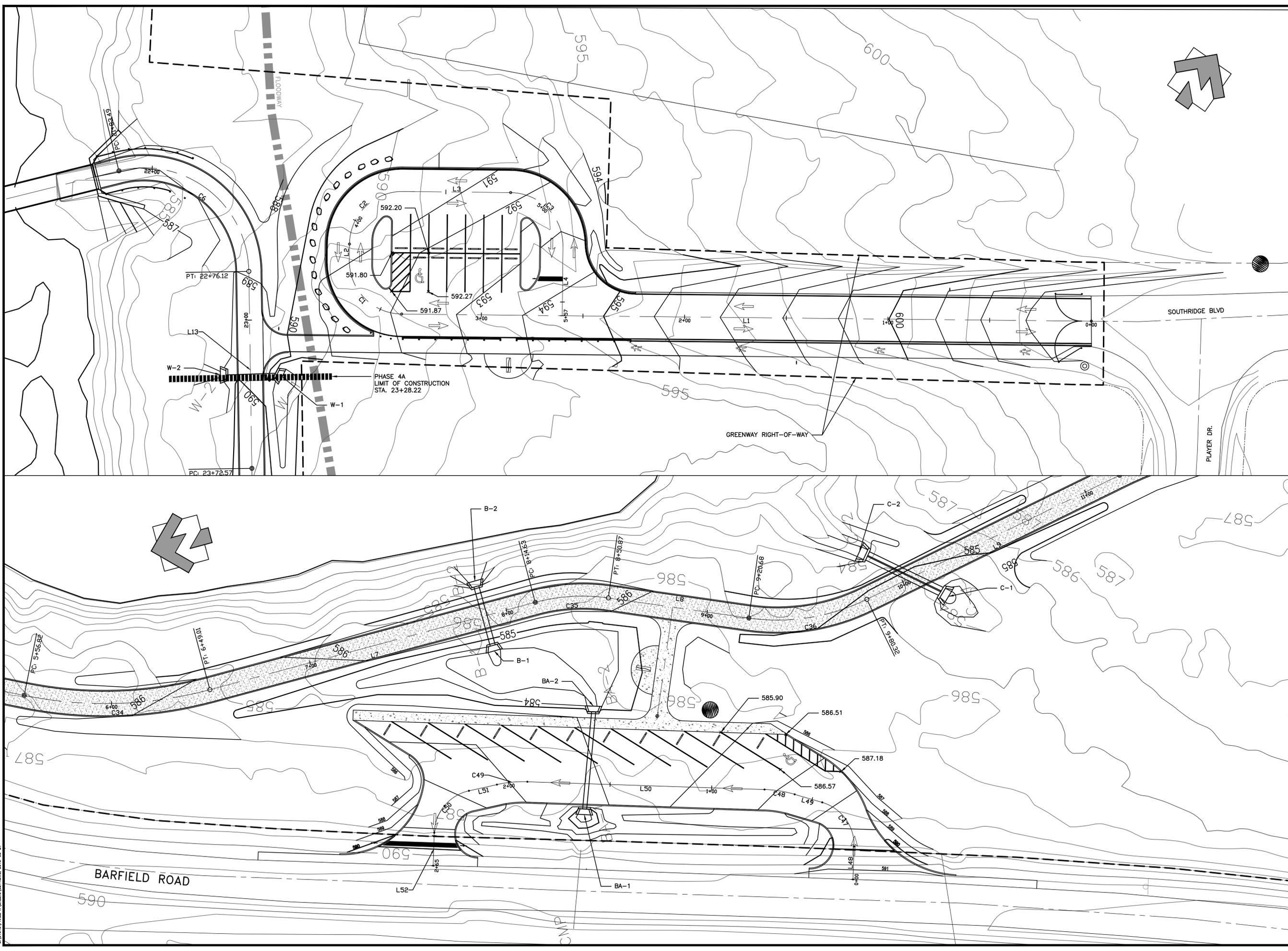
**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
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**MURFREESBORO** **TENNESSEE**

REVISIONS		
NO.	DATE	COMMENTS
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03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

**TRAILHEAD PARKING, GRADING, AND DRAINAGE ENLARGEMENTS**

PROJECT NUMBER	DATE
01018	4-18-2014
DRAWN BY	SCALE
BB	1"=20'
CHECKED BY	
LD	0 20

SHEET NUMBER **C2.11**



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**STORM SEWER NOTES**

1. ALL HDPE PIPE SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE SMOOTH INTERIOR PIPE. HDPE PIPE SHALL CONFORM TO ASTM D3350 WITH SOIL TIGHT JOINTS.
2. ALL HDPE SHALL BE INSTALLED PER MANUFACTURE'S RECOMMENDATIONS AND AASHTO SECTION 30.
3. ALL CASTINGS TO HAVE "NO DUMPING DRAINS TO RIVER" ON THE GRATES.
4. CONTRACTOR TO VERIFY FIELD ELEVATIONS AT PIPE LOCATIONS. NOTIFY PROJECT ENGINEER OF MAJOR DISCREPANCIES BETWEEN PLAN AND FIELD ELEVATIONS. DO NOT INSTALL PIPE TO INVERTS THAT WILL NOT DRAIN.

**STORM SEWER SCHEDULE**

PROJECT: Stones River Greenway Phase 4  
 PROJECT #: 01018  
 DESIGN STORM: Varies

NOTE: TC=FLOW LINE TO STRUCTURE

FROM	TO	INVERT ELEV.		DIA	TYPE	Manning's n	DESIGN FREQ year	INLET DRAINAGE AREA acres	DESIGN FLOW cfs	DESIGN SLOPE %	VELOCITY ft/sec	INLET TC min	LENGTH ft	STRUCTURE TYPE	T.C. ELEV.	TYPE CASTING	NOTES
		UPPER	LOWER														
A-1														BOARDWALK ABUTMENT			
A-1	A-2	SEE DETAIL															SEE DETAIL 1/C4.07
A-2														BOARDWALK ABUTMENT			
B-1	B-2	582.00	581.70	30	HDPE	0.013	2	37.30	25.83	1.00%	5.83	39.2	30.0	HEADWALL			
B-2														HEADWALL			
BA-1	BA-2	583.00	582.50	24	RCP	0.013	-	-	-	1.04%	5.93	-	48.0	HEADWALL			
BA-2														HEADWALL			
C-1														HEADWALL			
C-1	C-2	582.00	581.60	(2) 24	HDPE	0.013	2	38.60	37.13	1.00%	6.29	38.0	40.0	HEADWALL			
C-2														HEADWALL			
D-1																	
D-1	D-2	omitted															
D-2																	
E-1														ALUM WINGWALL			
E-1	E-2	587.00	586.70	9'-2"x3'-3"	ALUM BOX	0.013	10	68.30	102.54	1.00%	9.31	46.2	30.0	ALUM WINGWALL		CONTECH ALUM BOX CULVERT#2 OR EQUAL	
E-2																	
F-1														DROP INLET W/PEDESTAL TOP	587.60		
F-1	F-2	585.80	585.50	18	HDPE	0.013	2	8.50	10.66	1.00%	6.75	15.7	30.0	HEADWALL			
F-2														HEADWALL			
G-1														HEADWALL			
G-1	G-2	591.28	591.00	18	HDPE	0.013	2	8.80	9.33	1.00%	6.66	21.0	28.0	HEADWALL			
G-2														HEADWALL			
H-1														DROP INLET W/PEDESTAL TOP	591.00		
H-1	H-2	588.33	588.00	18	HDPE	0.013	2	7.50	7.15	1.00%	6.32	24.7	33.0	HEADWALL			
H-2														HEADWALL			
I-1														HEADWALL			
I-1	I-2	587.92	587.50	18	HDPE	0.013	2	12.20	12.13	1.00%	6.87	23.1	42.0	HEADWALL			
I-2														HEADWALL			
J-1														DROP INLET W/PEDESTAL TOP	596.50		
J-1	J-2	594.24	594.00	18	HDPE	0.013	10	3.00	10.28	1.00%	6.59	11.5	24.0	HEADWALL			
J-2														HEADWALL			
K-1														HEADWALL			
K-1	K-2	591.93	591.50	30	HDPE	0.013	2	22.30	21.99	1.00%	8.09	23.4	43.0	HEADWALL			
K-2														HEADWALL			
L-1														HEADWALL			
L-1	L-2	591.82	591.50	(2) 18	HDPE	0.013	2	14.30	14.50	1.00%	6.35	22.5	32.0	HEADWALL			
L-2														HEADWALL			
M-1														BOARDWALK ABUTMENT			
M-1	M-2	SEE DETAIL															SEE DETAIL 2/C4.10
M-2														BOARDWALK ABUTMENT			
N-1														HEADWALL			
N-1	N-2	599.00	598.00	30	HDPE	0.013	2	51.00	34.65	2.63%	11.58	40.3	38.0	HEADWALL			
N-2														HEADWALL			
O-1														BOARDWALK ABUTMENT			
O-1	O-2	SEE DETAIL															SEE DETAIL 3/C4.10
O-2														BOARDWALK ABUTMENT			
P-1														HEADWALL			
P-1	P-2	601.00	600.76	12	HDPE	0.013	2	1.30	2.42	1.00%	4.87	5.0	24.0	HEADWALL			
P-2														HEADWALL			
Q-1														HEADWALL			
Q-1	Q-2	603.50	603.22	18	HDPE	0.013	2	5.80	8.06	1.00%	6.47	12.9	28.0	HEADWALL			
Q-2														HEADWALL			
R-1														HEADWALL			
R-1	R-2	629.50	629.30	(2) 18	HDPE	0.013	10	8.80	24.38	1.00%	6.72	20.5	20.0	HEADWALL			
R-2														HEADWALL			
S-1														HEADWALL			
S-1	S-2	629.12	629.00	(2) 12	HDPE	0.013	10	1.90	5.55	1.00%	4.60	18.7	12.0	HEADWALL			
S-2														HEADWALL			
T-1														HEADWALL			
T-1	T-2	591.32	591.00	24	HDPE	0.013	10	0.30	1.29	1.00%	5.80	5.0	32.0	HEADWALL			
T-2														HEADWALL			
U-1														L SHAPED HEADWALL			
U-1	U-2	591.32	591.00	15	HDPE	0.013	10	1.20	5.14	1.00%	5.80	5.0	32.0	HEADWALL			
U-2														HEADWALL			
V-1														L SHAPED HEADWALL			
V-1	V-2	598.23	598.00	12	HDPE	0.013	10	0.70	3.00	1.00%	4.77	5.0	23.0	HEADWALL			
V-2														HEADWALL			
W-1														HEADWALL			
W-1	W-2	588.24	588.00	12	HDPE	0.013	2	1.40	2.60	1.00%	4.92	5.0	24.0	HEADWALL			
W-2														HEADWALL			
X-1														DROP INLET W/PEDESTAL TOP	595.60		
X-1	X-2	593.96	593.60	12	HDPE	0.013	2	0.50	0.93	1.00%	3.80	5.0	36.0	HEADWALL			
X-2														HEADWALL			
Y-1														TRENCH DRAIN			
Y-1	Y-2	598.13	598.00	SEE DETAIL	-	0.013	2	16.70	17.19	1.00%	4.65	22.0	13.0	TRENCH DRAIN			
Y-2														TRENCH DRAIN			
Z-1		omitted															
AA-1														HEADWALL	598.80		
AA-1	AA-2	596.20	596.00	18	HDPE	0.013	2	1.30	2.42	1.00%	4.83	5.0	20.0	HEADWALL			
AA-2														HEADWALL			
AB-1														HEADWALL			
AB-1	AB-2	623.10	623.00	12	HDPE	0.013	10	0.10	0.67	0.6%	3.38	5.0	17.0	HEADWALL			
AB-2														HEADWALL			



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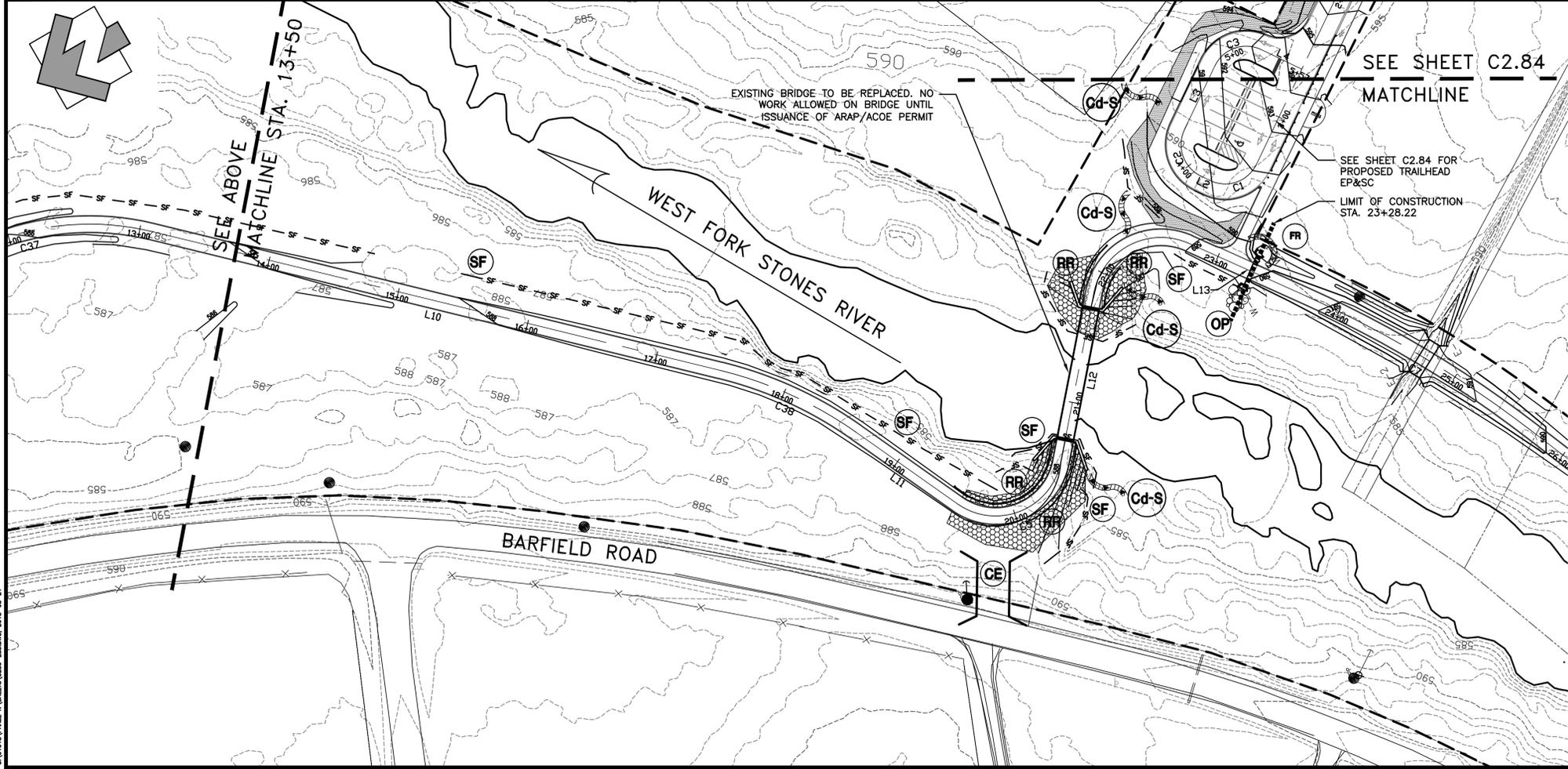
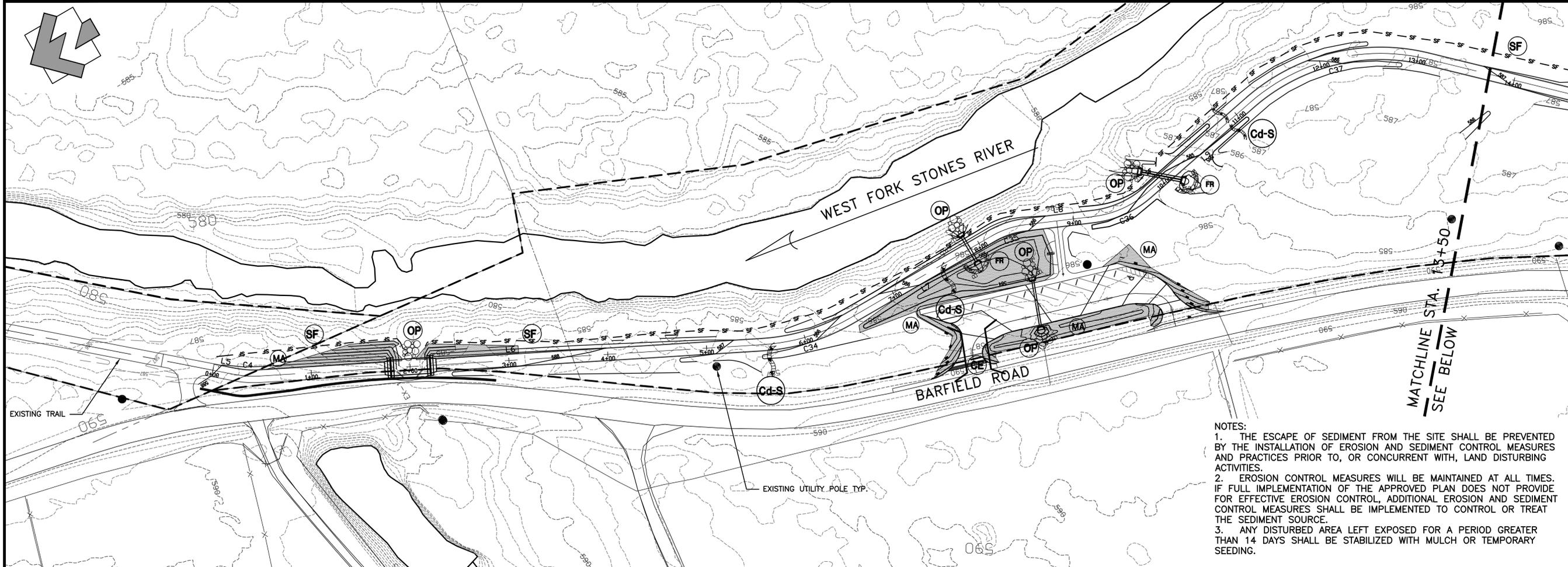
**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO TENNESSEE**

REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE	
<b>STORM PIPE CHART</b>	

PROJECT NUMBER: **01018** DATE: **4-18-2014**  
 DRAWN BY: **BB** SCALE: **N/A**  
 CHECKED BY: **LD**  
 SHEET NUMBER: **C2.50**





NOTES:  
 1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.  
 2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.  
 3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

UNIFORM CODING SYSTEM  
 FOR SOIL EROSION & SEDIMENT CONTROL PRACTICES

NOTE: ALL PHASE 1 PRACTICES TO BE COMPLETED PRIOR TO ANY OTHER LAND DISTURBANCE ACTIVITIES. PHASE 2 PRACTICES TO BE IMPLEMENTED AS NEEDED DURING CONSTRUCTION. PHASE 3 PRACTICES TO BE IMPLEMENTED AS SOON AS CONSTRUCTION IS COMPLETE ON DIFFERENT ASPECTS OF THE PROJECT.

- PHASE 1**
- **CE** --- CONSTRUCTION EXIT (11 C2.90)
  - **SF** --- SEDIMENT BARRIER: TYPE "C" \*ALSO SERVES AS LIMITS OF CONSTRUCTION (4 C2.90)
  - **MU** --- DISTURBED AREA STABILIZATION MULCHING (5 C2.91)
- PHASE 2**
- **Cd-S** --- TEMPORARY STONE CHECK DAM (9 C2.90)
  - **OP** --- OUTLET PROTECTION (1 C2.91)
  - **Wt** --- VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL (10 C2.90)
  - **TS** --- TEMPORARY DISTURBED AREA STABILIZATION (6 C2.90)
  - **FR** --- TEMPORARY FILTER RING (8 C2.90)
  - **P** --- INLET PROTECTION (6 C2.91)
- PHASE 3**
- **MA** --- GEOTEXTILES (6 C2.90)
  - **PS** --- PERMANENT DISTURBED AREA STABILIZATION (7 C2.90)
  - **RR** --- CLASS A-1 RIPRAP (7 C2.91)

\*\* TEMPORARY GEOTEXTILE FABRIC TO BE PLACED ON ALL SLOPES ON 3:1 OR GREATER



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**STONES RIVER GREENWAY EXTENSION PHASES 4A**

REVISIONS

NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE

<b>EROSION PREVENTION AND SEDIMENT CONTROL PLAN</b>
---

PROJECT NUMBER: **01018** DATE: **4-18-2014**  
 DRAWN BY: **BB** SCALE: **1"=50'**  
 CHECKED BY: **LD**

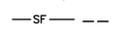
SHEET NUMBER: **C2.81**

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UNIFORM CODING SYSTEM  
FOR SOIL EROSION & SEDIMENT CONTROL PRACTICES

NOTE: ALL PHASE 1 PRACTICES TO BE COMPLETED PRIOR TO ANY OTHER LAND DISTURBANCE ACTIVITIES. PHASE 2 PRACTICES TO BE IMPLEMENTED AS NEEDED DURING CONSTRUCTION. PHASE 3 PRACTICES TO BE IMPLEMENTED AS SOON AS CONSTRUCTION IS COMPLETE ON DIFFERENT ASPECTS OF THE PROJECT.

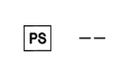
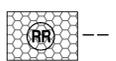
PHASE 1

-  --- **CE** --- CONSTRUCTION EXIT (11) (C2.90)
-  --- **SF** --- SEDIMENT BARRIER: TYPE 'C' \*ALSO SERVES AS LIMITS OF CONSTRUCTION (4) (C2.90)
-  --- **MU** --- DISTURBED AREA STABILIZATION MULCHING (5) (C2.91)

PHASE 2

-  --- **Cd-S** --- TEMPORARY STONE CHECK DAM (9) (C2.90)
-  --- **OP** --- OUTLET PROTECTION (1) (C2.91)
-  --- **Wt** --- VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL (10) (C2.90)
-  --- **TS** --- TEMPORARY DISTURBED AREA STABILIZATION (6) (C2.90)
-  --- **FR** --- TEMPORARY FILTER RING (8) (C2.90)
-  --- **P** --- INLET PROTECTION (6) (C2.91)

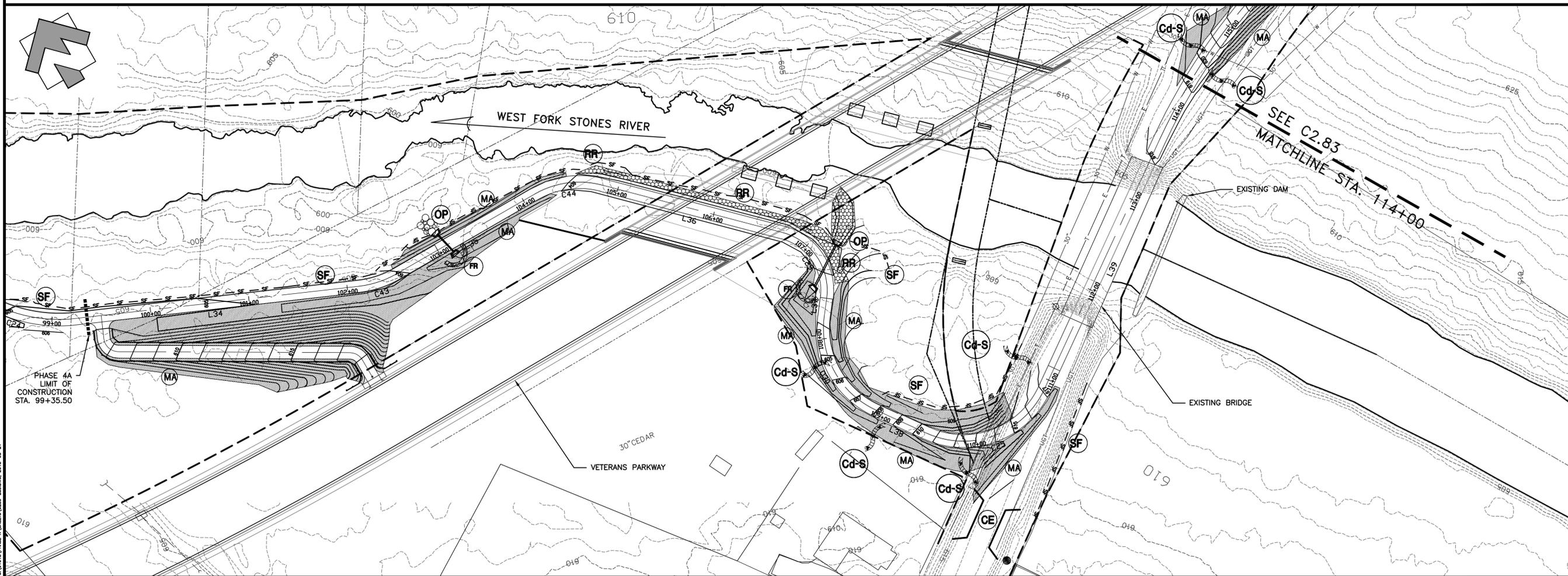
PHASE 3

-  --- **MA** --- GEOTEXTILES (6) (C2.90)
-  --- **PS** --- PERMANENT DISTURBED AREA STABILIZATION (7) (C2.90)
-  --- **RR** --- CLASS A-1 RIPRAP (7) (C2.91)

\*\* TEMPORARY GEOTEXTILE FABRIC TO BE PLACED ON ALL SLOPES AT 3:1 OR GREATER

NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.



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**STONES RIVER GREENWAY  
EXTENSION  
PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO**  
 TENNESSEE

REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE	
<b>EROSION PREVENTION AND SEDIMENT CONTROL PLAN</b>	

PROJECT NUMBER	DATE
<b>01018</b>	<b>4-18-2014</b>
DRAWN BY	SCALE 1"=50'
<b>BB</b>	0
CHECKED BY	0 50
<b>LD</b>	

SHEET NUMBER  
**C2.82**

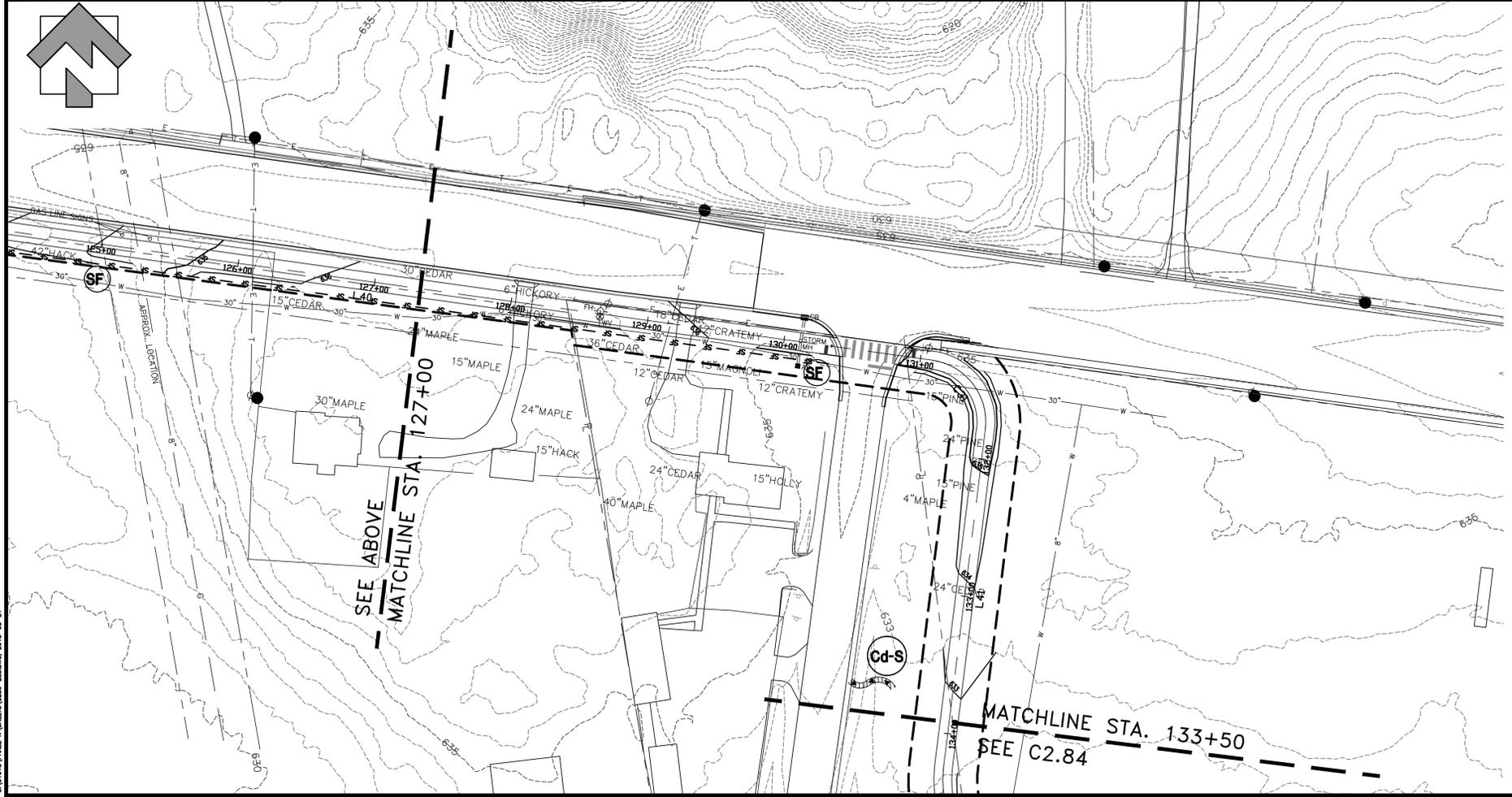


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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
PREPARED FOR  
**MURFREESBORO TENNESSEE**

- NOTES:**
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  2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
  3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.



**UNIFORM CODING SYSTEM FOR SOIL EROSION & SEDIMENT CONTROL PRACTICES**

NOTE: ALL PHASE 1 PRACTICES TO BE COMPLETED PRIOR TO ANY OTHER LAND DISTURBANCE ACTIVITIES. PHASE 2 PRACTICES TO BE IMPLEMENTED AS NEEDED DURING CONSTRUCTION. PHASE 3 PRACTICES TO BE IMPLEMENTED AS SOON AS CONSTRUCTION IS COMPLETE ON DIFFERENT ASPECTS OF THE PROJECT.

- PHASE 1**
- CE** --- CONSTRUCTION EXIT (11) (C2.90)
  - SF** --- SEDIMENT BARRIER: TYPE 'C' \*ALSO SERVES AS LIMITS OF CONSTRUCTION (4) (C2.90)
  - MU** --- DISTURBED AREA STABILIZATION MULCHING (5) (C2.91)
- PHASE 2**
- Cd-S** --- TEMPORARY STONE CHECK DAM (9) (C2.90)
  - OP** --- OUTLET PROTECTION (1) (C2.91)
  - Wt** --- VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL (10) (C2.90)
  - TS** --- TEMPORARY DISTURBED AREA STABILIZATION (6) (C2.90)
  - FR** --- TEMPORARY FILTER RING (8) (C2.90)
  - P** --- INLET PROTECTION (6) (C2.91)
- PHASE 3**
- MA** --- GEOTEXTILES (6) (C2.90)
  - PS** --- PERMANENT DISTURBED AREA STABILIZATION (7) (C2.90)
  - RR** --- CLASS A-1 RIPRAP (7) (C2.91)

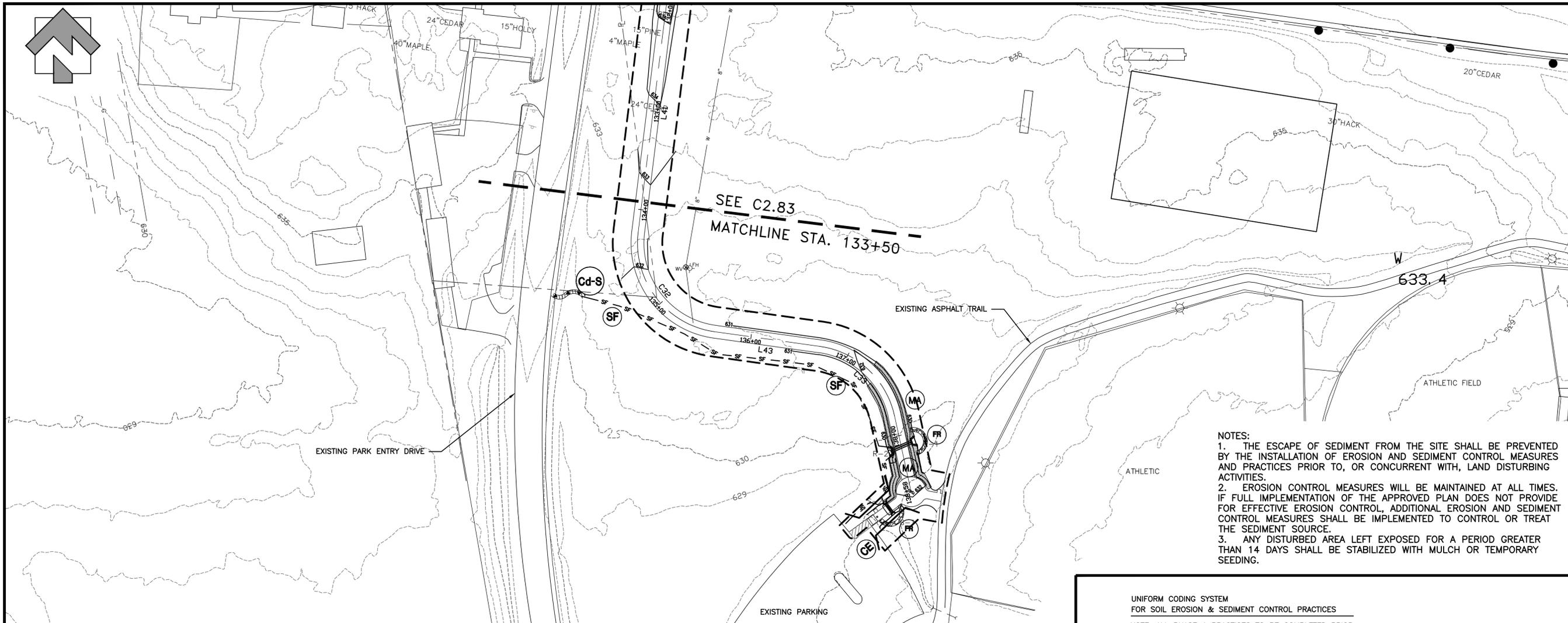
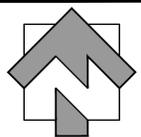
REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

**EROSION PREVENTION AND SEDIMENT CONTROL PLAN**

PROJECT NUMBER	DATE
01018	4-18-2014
DRAWN BY	SCALE 1"=50'
BB	0
CHECKED BY	0
LD	50
SHEET NUMBER	

\*\* TEMPORARY GEOTEXTILE FABRIC TO BE PLACED ON ALL SLOPES AT 3:1 OR GREATER

**C2.83**



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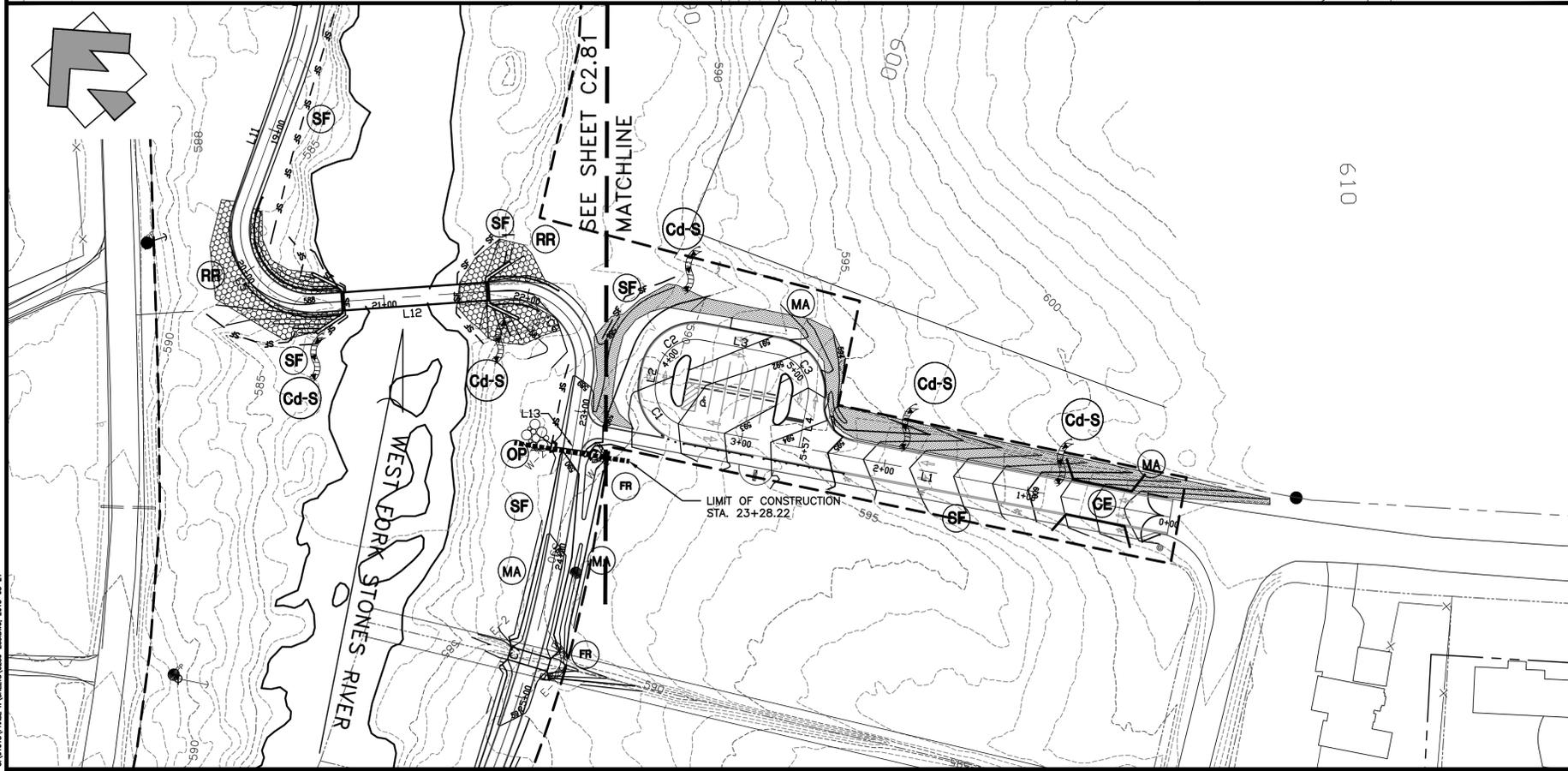
**STONES RIVER GREENWAY  
 EXTENSION  
 PHASES 4A  
 PREPARED FOR  
 MURFREESBORO  
 TENNESSEE**

- NOTES:**
1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
  2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
  3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

**UNIFORM CODING SYSTEM  
 FOR SOIL EROSION & SEDIMENT CONTROL PRACTICES**

NOTE: ALL PHASE 1 PRACTICES TO BE COMPLETED PRIOR TO ANY OTHER LAND DISTURBANCE ACTIVITIES. PHASE 2 PRACTICES TO BE IMPLEMENTED AS NEEDED DURING CONSTRUCTION. PHASE 3 PRACTICES TO BE IMPLEMENTED AS SOON AS CONSTRUCTION IS COMPLETE ON DIFFERENT ASPECTS OF THE PROJECT.

<b>PHASE 1</b>		
	<b>CE</b> --- CONSTRUCTION EXIT	
	<b>SF</b> --- SEDIMENT BARRIER: TYPE "C" ALSO SERVES AS LIMITS OF CONSTRUCTION	
	<b>MU</b> --- DISTURBED AREA STABILIZATION MULCHING	
<b>PHASE 2</b>		
	<b>Cd-S</b> --- TEMPORARY STONE CHECK DAM	
	<b>OP</b> --- OUTLET PROTECTION	
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	<b>TS</b> --- TEMPORARY DISTURBED AREA STABILIZATION	
	<b>FR</b> --- TEMPORARY FILTER RING	
	<b>P</b> --- INLET PROTECTION	
<b>PHASE 3</b>		
	<b>MA</b> --- GEOTEXTILES	
	<b>PS</b> --- PERMANENT DISTURBED AREA STABILIZATION	
	<b>RR</b> --- CLASS A-1 RIPRAP	



**REVISIONS**

NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

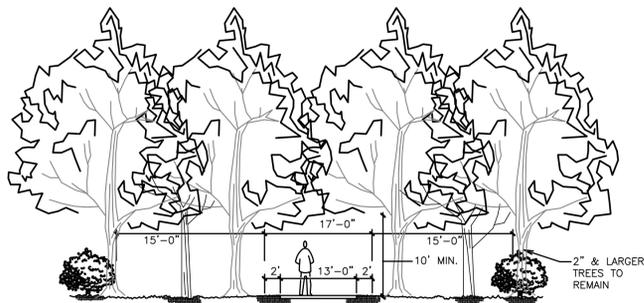
**SHEET TITLE**

**EROSION PREVENTION AND SEDIMENT CONTROL PLAN**

**PROJECT NUMBER** 01018 **DATE** 4-18-2014  
**DRAWN BY** BB **SCALE** 1"=50'  
**CHECKED BY** LD **SHEET NUMBER** 0

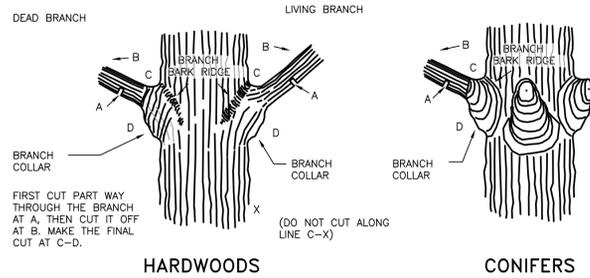
**C2.84**

\*\* TEMPORARY GEOTEXTILE FABRIC TO BE PLACED ON ALL SLOPES AT 3:1 OR GREATER



- CONTRACTOR SHALL STAKE PROPOSED CENTERLINE OF THE TRAIL, REMOVE UNDERSTORY BRUSH AND CONTACT THE OWNER'S REPRESENTATIVE PRIOR TO ANY CLEARING.
- OWNER'S REPRESENTATIVE WILL REVIEW FIELD ALIGNMENT AND IDENTIFY ANY TREES TO REMAIN WITH FLAGGING. ALLOW ONE WEEK FOR OWNER REVIEW.
- SEE DETAIL 3, THIS SHEET FOR ROOT PRUNING REQUIREMENTS WHERE TRAIL REQUIRES CUT ADJACENT TO TREES IDENTIFIED TO REMAIN.
- CONTRACTOR SHALL CLEAR FOREST UNDERSTORY (TREES LESS THAN 2" CAL.) AND BRUSH FOR A DISTANCE OF 15' ON BOTH SIDES OF THE TRAIL. TREES SHALL BE LIMBED UP TO A VERTICAL DISTANCE OF 10' FROM THE FOREST FLOOR IN THE 15' WIDE ZONE. BRANCHES SHALL BE CUT FLUSH WITH STANDARD TREE PRUNING EQUIPMENT, AS CALLED FOR IN THE TREE PRUNING SPECIFICATION & DETAIL 2, THIS SHEET.
- CONTRACTOR SHALL USE WOOD CHIPPER TO DISPOSE OF LANDSCAPE CLEARING DEBRIS. WOOD CHIPS SHALL BE BLOWN INTO WOODS ADJACENT TO TRAIL. CONTRACTOR SHALL USE ALL PRACTICABLE MEANS TO REDUCE AMOUNT OF WASTE SENT FROM THIS JOB SITE TO LANDFILL.
- IN AREAS WHERE TRAIL IS ROUTED ADJACENT TO WOODS EDGE, UNDERSTORY CLEARING SHALL EXTEND 15' INTO WOODS.
- SEED AREA WITHIN CLEARING LIMITS AS CALLED FOR IN SPECIFICATIONS.

1 VEGETATION CLEARING FOR WOODED AREAS  
NTS



THANKS LARGELY TO THE WORK OF DR. ALEX L. SHIGO AND OTHERS SCIENTISTS AT THE USDA FOREST SERVICE'S NORTHEASTERN FOREST EXPERIMENT STATION IN DURHAM, NH, MUCH IS NOW UNDERSTOOD ABOUT A TREE'S NATURAL SYSTEM OF DEFENCE AGAINST INFECTIONS FROM WOUNDS. BASED ON THIS KNOWLEDGE, THESE METHODS OF MAKING PRUNING CUTS ARE RECOMMENDED TO HELP WORK WITH NATURE RATHER THAN AGAINST A TREE'S NATURAL TENDENCY TO WALL OFF INJURED TISSUES AND PREVENT THE SPREAD OF DECAY. IN THESE ILLUSTRATIONS, FINAL CUTS SHOULD BE MADE FROM POINTS C TO D. DO NOT CUT ALONG LINE C-X WHICH IS SIMPLY AN IMAGINARY VERTICAL LINE TO HELP YOU LOCATE C-D.

2 TREE PRUNING DETAIL  
NTS

- CONTRACTOR IS RESPONSIBLE FOR THE SURVIVAL OF ALL EXISTING TREES SELECTED TO REMAIN WITHIN THE PROJECT LIMITS. TREES WILL BE WARRANTED FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION AGAINST SIGNIFICANT DIE BACK. ANY TREES FOUND WITH OVER 1/2 TOTAL CANOPY LOSS WILL BE REMOVED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER. CONTRACTOR WILL TAKE NECESSARY PRECAUTIONS TO PROTECT COMPLETED WORK AND THE SAFETY OF THE PUBLIC IF TREE REMOVAL IS NECESSARY.
- ALL ROOTS OVER 1" DIAMETER EXPOSED DURING CLEARING AND GRADING OPERATIONS WILL BE SHARPLY CUT BY HAND OR POWER SAW. SEE THE TABLE BELOW FOR MINIMUM DISTANCE FOR ROOT PRUNING BASED ON TREE SIZE. ANY DAMAGE TO ROOTS EXCEEDING THE TOLERANCES BELOW WILL WARRANT TREE REMOVAL BY THE CONTRACTOR. ROOT PRUNING SHOULD BE SUPERVISED BY A CERTIFIED ARBORIST.
- AVOID PARKING AND DRIVING HEAVY EQUIPMENT OVER THE ROOT ZONES OF TREES TO REMAIN TO AVOID SOIL COMPACTION AND TREE LOSS. EQUIPMENT WILL ONLY BE STORED IN THE STAGING AREA AS DETERMINED AT THE PRE-CONSTRUCTION MEETING.

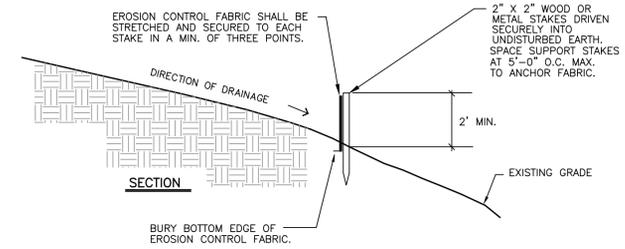
GENERAL GUIDE FOR MINIMUM DISTANCE FOR ROOT PRUNING

A TRUNK CALIPER MEASURED	B ROOT CUT DISTANCE (3X TRUNK CALIPER)
12" (30cm) ABOVE GROUND	12" (30.5cm)
4" (10cm)	12" (30.5cm)
6" (15cm)	18" (45.5cm)
8" (20.5cm)	24" (61cm)
10" (25.5cm)	30" (76cm)
12" (30.5cm)	36" (91.5cm)
14" (35.5cm)	42" (106.5cm)
16" (40.5cm)	48" (122cm)
18" (45.5cm)	54" (137cm)
20" (51cm)	60" (152.5cm)

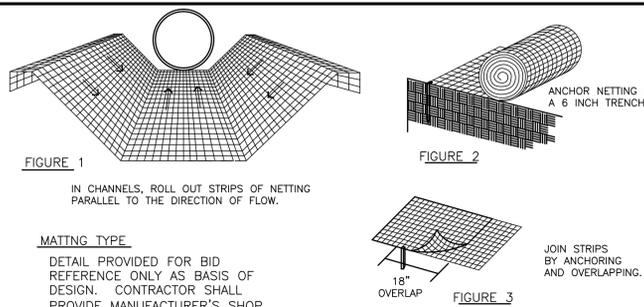


3 ROOT PRUNING REQUIREMENTS  
NTS

- NOTES:
- FENCE TO BE INSTALLED PRIOR TO EXCAVATION OR BACKFILLING. FENCE TO RUN ENTIRE LENGTH OF TRAIL ALONG THE DOWN HILL SIDE.
  - CONTRACTOR IS TO MAINTAIN FENCE UNTIL VEGETATION IS ESTABLISHED; THEN REMOVE FENCE AND ANY ACCUMULATED SEDIMENT. MAINTENANCE INCLUDES REMOVING ACCUMULATED SEDIMENT WHEN IT EXCEEDS 1/2 OF THE TOTAL HEIGHT OF EXPOSED FENCE.
  - CONTRACTOR MAY SUBSTITUTE APPROVED PRE-ASSEMBLED FENCE.
  - CONTRACTOR IS RESPONSIBLE FOR REPLACING SECTIONS OF FENCE THAT ARE DAMAGED WITHIN THREE DAYS AT NO EXTRA COST TO THE OWNER.
  - SILT FENCE SERVES AS A LIMIT OF CONSTRUCTION. NO ACTIVITY IS PERMITTED BETWEEN FENCING AND THE STONES RIVER.



4 SILT FENCE - LIMITS OF CONSTRUCTION  
SCALE: NTS

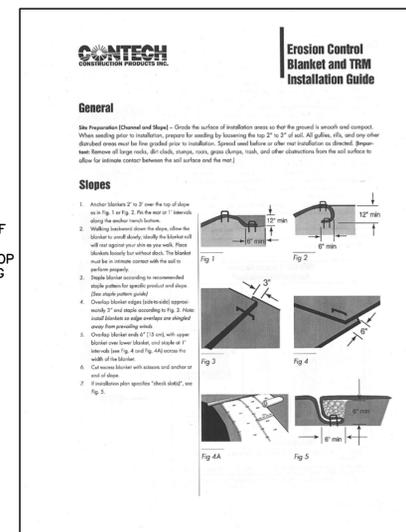


**MATING TYPE**  
DETAIL PROVIDED FOR BID REFERENCE ONLY AS BASIS OF DESIGN. CONTRACTOR SHALL PROVIDE MANUFACTURER'S SHOP DRAWINGS FOR BOTH TEMPORARY AND PERMANENT MATTING TYPES PRIOR TO ORDERING FINAL MATERIALS.

**INSTALLATION INSTRUCTIONS:**

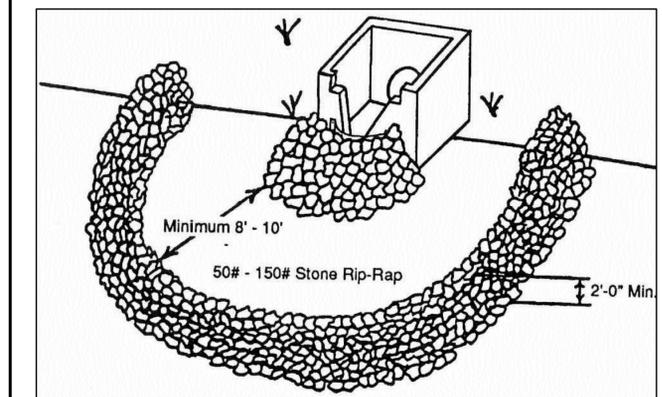
- SEED (PER SPEC) BEFORE PLACEMENT OF MATTING. ROLL STRIPS OUT PARALLEL TO THE DIRECTION OF WATER FLOW (SEE FIGURE 1).
- START LAYING THE NET FROM THE TOP OF THE CHANNEL OR SLOPE AND UNROLL IT DOWN THE GRADE. ALLOW MATTING TO LAY LOOSELY ON THE SOIL BUT WITHOUT WRINKLES- DO NOT STRETCH.
- TO SECURE THE NET, BURY THE UPSLOPE END IN A TRENCH NO LESS THAN 6" DEEP, COVER WITH SOIL AND TAMP FIRMLY (SEE FIGURE 2). STAPLE THE MAT EVERY 12" ACROSS THE TOP END AND EVERY 3' AROUND THE EDGES AND BOTTOM. WHERE 2 STRIPS OF NET ARE LAID SIDE BY SIDE, THE ADJACENT EDGES SHOULD BE OVERLAPPED 3 INCHES AND STAPLED TOGETHER. EACH STRIP OF MATTING SHOULD ALSO BE STAPLED DOWN THE CENTER, EVERY 3'. DO NOT STRETCH THE MAT WHEN APPLYING STAPLES.
- TO JOIN TWO STRIPS, CUT A TRENCH TO ANCHOR THE END OF THE NEW MAT. OVERLAP THE END OF THE PREVIOUS ROLL 18" (SEE FIGURE 2), AND STAPLE EVERY 12" JUST BELOW THE ANCHOR SLOT.
- ON 3:1 OR SIMILAR BANK INSTALLATIONS, FOLLOW MANUFACTURER'S INSTALLATION REQUIREMENTS.

6 TEMPORARY EROSION CONTROL MATTING  
SCALE: NTS

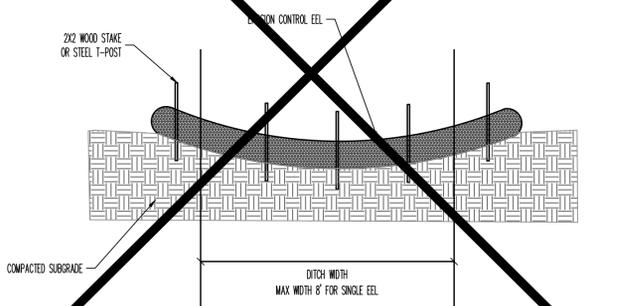


NOTE: DETAIL PROVIDED FOR BID REFERENCE ONLY AS BASIS OF DESIGN. CONTRACTOR SHALL PROVIDE MANUFACTURER'S SHOP DRAWINGS PRIOR TO ORDERING FINAL MATERIALS.

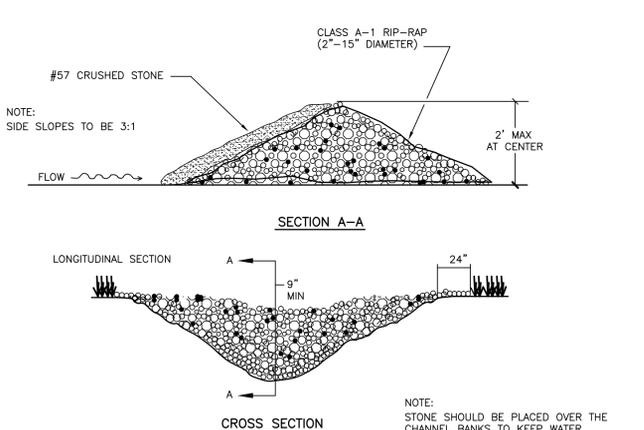
7 PERMANENT EROSION CONTROL MATTING  
SCALE: NTS



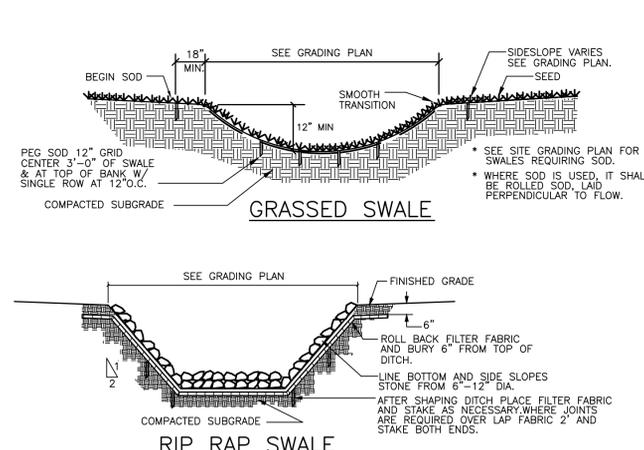
8 FILTER RING  
SCALE: NTS



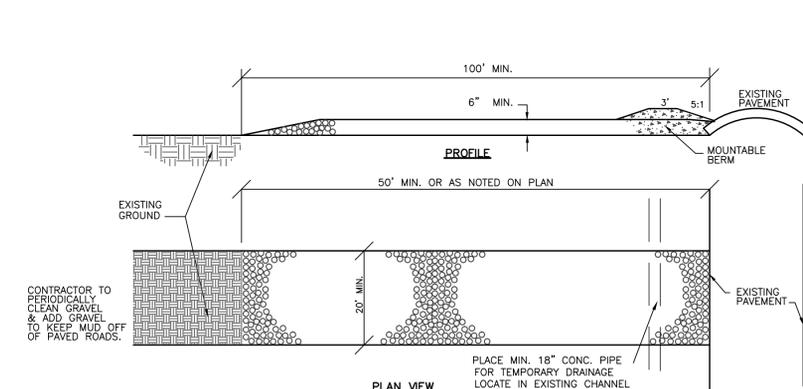
5 COMPOST SOCK SEDIMENT BARRIER  
N.I.C.  
NTS



9 STONE CHECK DAM  
SCALE: NTS



10 SWALES  
SCALE: NTS

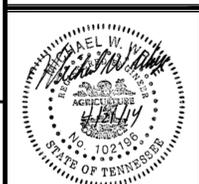


11 STABILIZED CONSTRUCTION EXIT  
SCALE: NTS

- STONE SIZE- USE 1.5"-3.5" STONE, OR RECLAIMED OR RECYCLED CONC. EQUIVALENT.
- LENGTH- AS REQUIRED, BUT NOT LESS THAN 100'. USE OF ENTRANCE NOT TO IMPACT EXISTING TREES, UTILITIES, OR PAVED SURFACES THROUGHOUT DURATION OF CONSTRUCTION.
- THICKNESS- NOT LESS THAN SIX (6) INCHES.
- WIDTH- TWENTY (20) FOOT MIN., BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS
- GEOTEXTILE BARRIER TO BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVIDED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM W/5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
- WASHING- WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS- OF- WAY. WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DROVE INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



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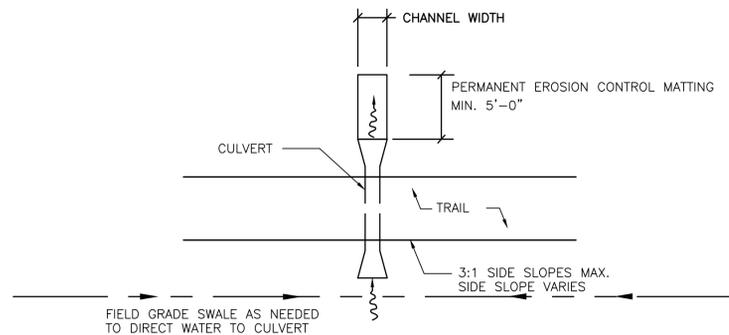
STONES RIVER GREENWAY EXTENSION PHASES 4A  
PREPARED FOR  
MURFREESBORO TENNESSEE

REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

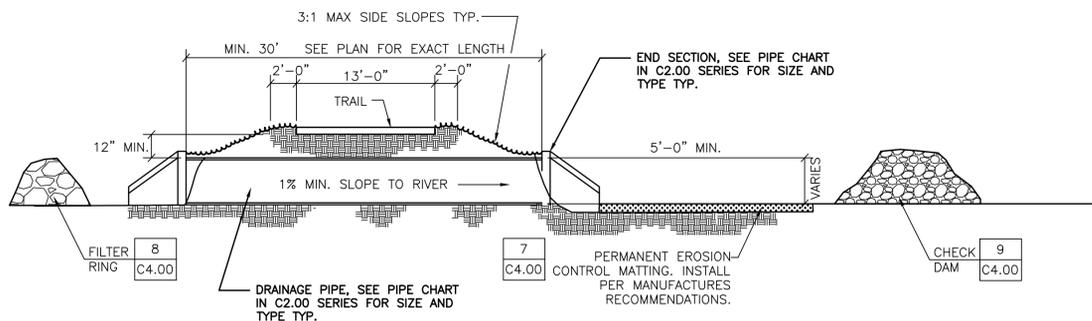
GRADING, DRAINAGE, AND EPSC DETAILS

PROJECT NUMBER	DATE
01018	4-18-2014
DRAWN BY	SCALE
BB	NTS
CHECKED BY	SCALE
LD	NTS
SHEET NUMBER	

C2.90

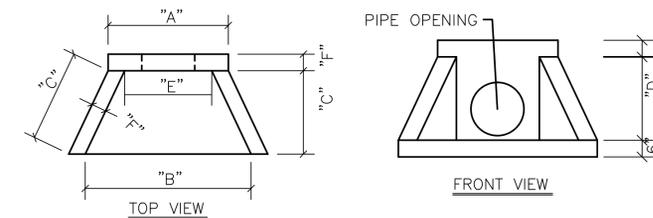
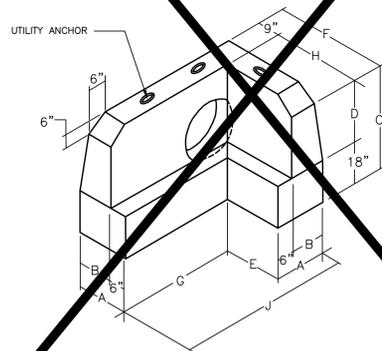


1 TRAIL CROSS DRAIN SECTION  
SCALE: NTS

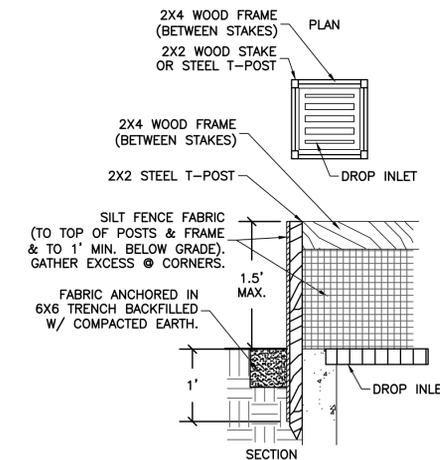


2 PRECAST ELL TYPE HEADWALL  
(N.I.C.) NTS

STANDARD ELL HEADWALL DIMENSIONS										
PIPE DIA.	A	B	C	D	E	F	G	H	J	WEIGHT
12"	1'-8"	1'-2"	4'-6"	3'-0"	2'-9"	4'-5"	3'-9"	3'-3"	5'-5"	4.820#
15"	1'-8 1/2"	1'-2 1/2"	4'-9"	3'-3"	3'-0"	4'-8 1/2"	4'-3"	3'-6"	5'-11 1/2"	5.751#
18"	1'-9"	1'-3"	5'-0"	3'-6"	3'-3"	5'-0"	4'-9"	3'-9"	6'-6"	6.763#
21"	1'-9 1/2"	1'-3 1/2"	5'-3"	3'-9"	3'-6"	5'-3 1/2"	5'-3"	4'-0"	7'-0 1/2"	7.822#
24"	1'-10"	1'-4"	5'-6"	4'-0"	3'-9"	5'-7"	5'-9"	4'-3"	7'-7"	8.991#

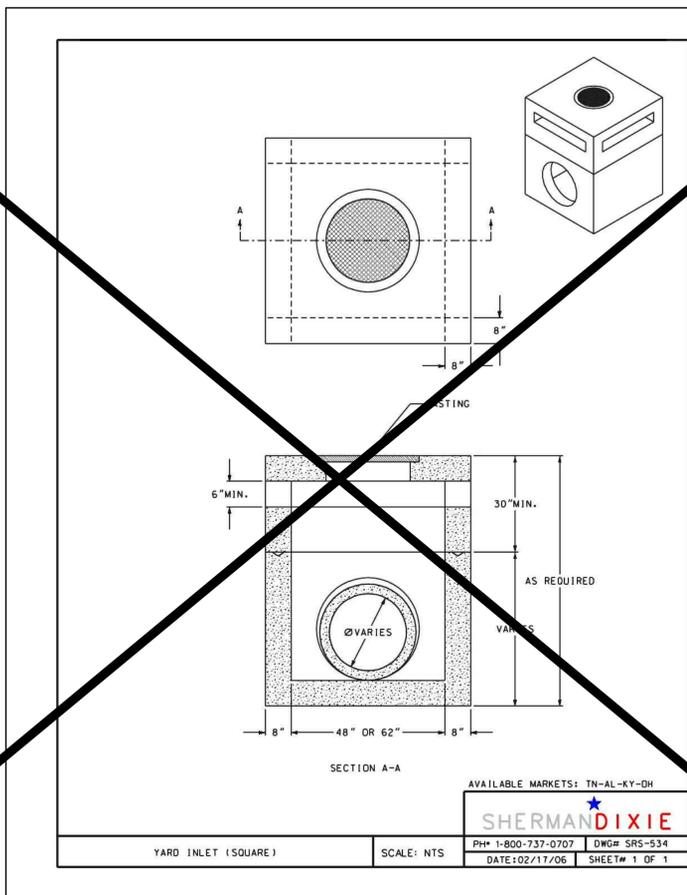


3 CONCRETE HEADWALL  
NTS



NOTE: THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT TO EXCEED 1 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREETS OR HIGHWAY MEDIANS.

6 INLET PROTECTION  
SCALE: NTS



4 DROP INLET W/PEDESTAL TOP  
(N.I.C.) NTS

CRITICAL AREA VEGETATIVE PLAN

GENERAL  
THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON CUT AND FILL SLOPES, SHOULDERS AND CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANTINGS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGES FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

SOIL CONDITIONS  
DUE TO GRADING AND CONSTRUCTION, THE AREAS TO BE TREATED ARE MAINLY SUBSOIL SUBSTRATA. FERTILITY IS LOW AND THE PHYSICAL CHARACTERISTICS OF THE EXPOSED MATERIAL AREA UNFAVORABLE TO ALL BUT THE MOST HARDY PLANTS.

TREATMENT SPECIFICATIONS

CONVENTIONAL SEEDING EQUIPMENT  
GRADE, SHAPE AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED AND FIRMED. SEEDING WILL BE DONE WITH CULTPACKER-SEEDER, DRILL, ROTARY SEEDER OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY. WITH 24 HOURS AFTER SEEDING, STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT OR BY HAND AND ANCHORED IMMEDIATELY AS IT IS SPREAD. A DISK HARROW WITH THE DISK SET OR A SPECIAL PACKER DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

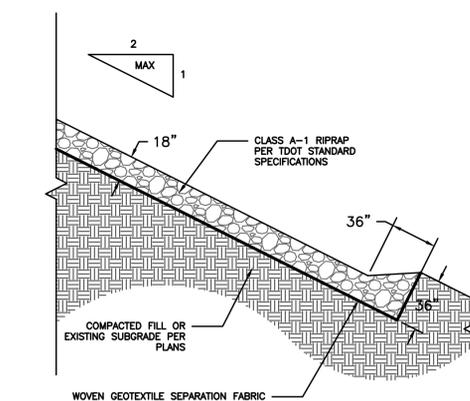
- A. SEEDING WITH MULCH:(CONVENTIONAL SEEDING EQUIPMENT ON SLOPES LESS THAN 3:1)
- |                        |                |
|------------------------|----------------|
| AGRICULTURAL LIMESTONE | 4000 LBS./ACRE |
| FERTILIZER, 5-10-15    | 1500 LBS./ACRE |
| MULCH:                 |                |
| STRAW                  | 4000 LBS./ACRE |
| HAY                    | 5000 LBS./ACRE |

SEEDING SPECIES	APPLICATION RATE/ACRE	PLANTING DATES
KENTUCKY 31 FESCUE	50 LBS.	2/1-4/15
HULL COMMON BERMUDA GRASS	10 LBS.	4/15-8/1
KENTUCKY 31 FESCUE	25 LBS.	8/1-12/1
RYE GRASS	25 LBS.	
HAY MULCH FOR TEMP. COVER	5000 LBS.	6/15-8/31

- B. TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL  
FERTILIZER(AMMONIUM NITRATE 33.5%) 300 LBS./ACRE

- C. SECOND-YEAR FERTILIZER:(5-10-15 OR EQUIVALENT) 800 LBS./ACRE

5 DISTURBED AREA STABILIZATION  
SCALE: NTS



7 RIPRAP SLOPE STABILIZATION  
SCALE: NTS



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STONES RIVER GREENWAY EXTENSION PHASES 4A  
MURFREESBORO, TENNESSEE  
PREPARED FOR

REVISIONS		
NO.	DATE	COMMENTS
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05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE  
**GRADING, DRAINAGE, AND EPSC DETAILS**

PROJECT NUMBER: 01018 DATE: 4-18-2014  
DRAWN BY: BB SCALE:  
CHECKED BY: LD NTS  
SHEET NUMBER:

C2.91

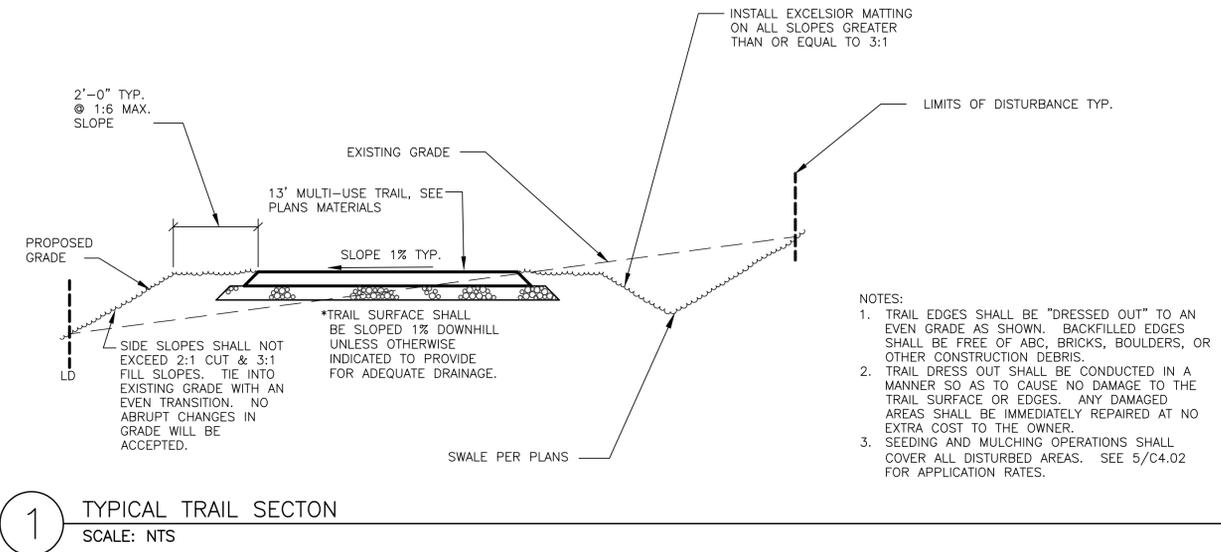


**LOSE & ASSOCIATES, INC.**  
 1314 5th Avenue North, Suite 200  
 Nashville, TN 37208  
 (615) 242-0040

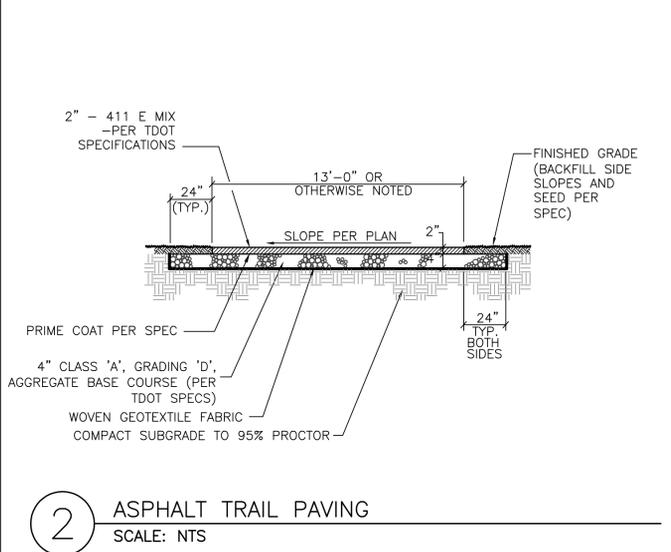
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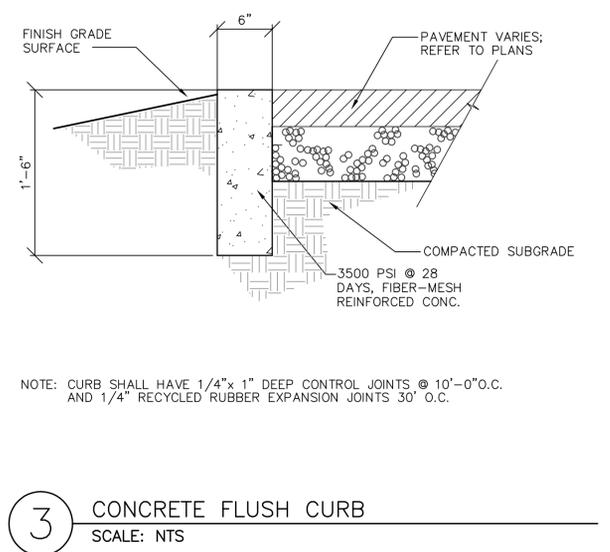
**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO** TENNESSEE



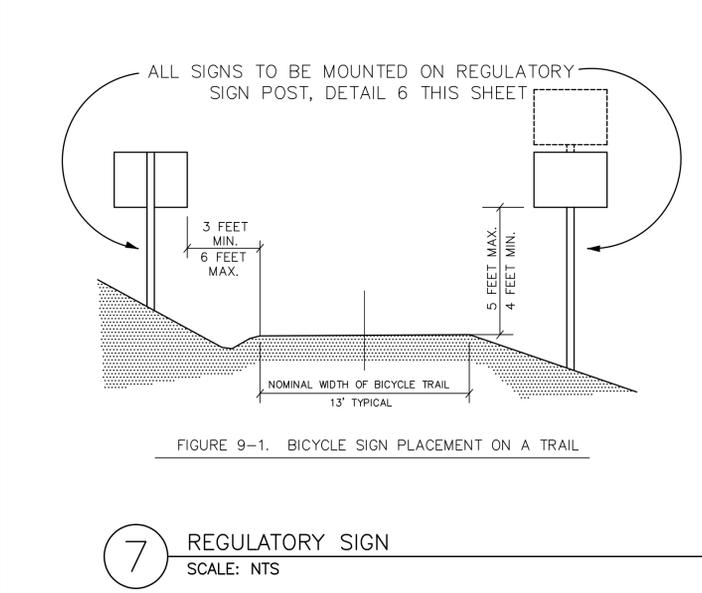
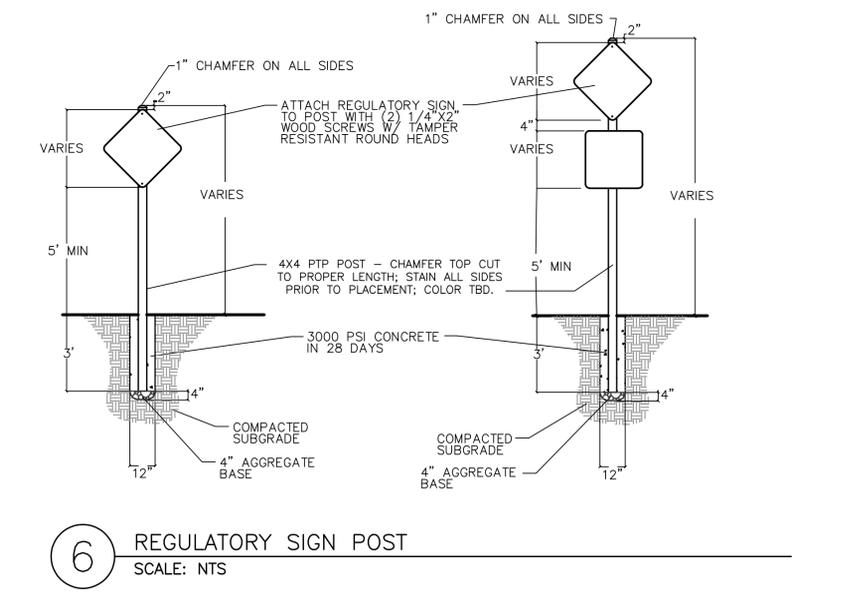
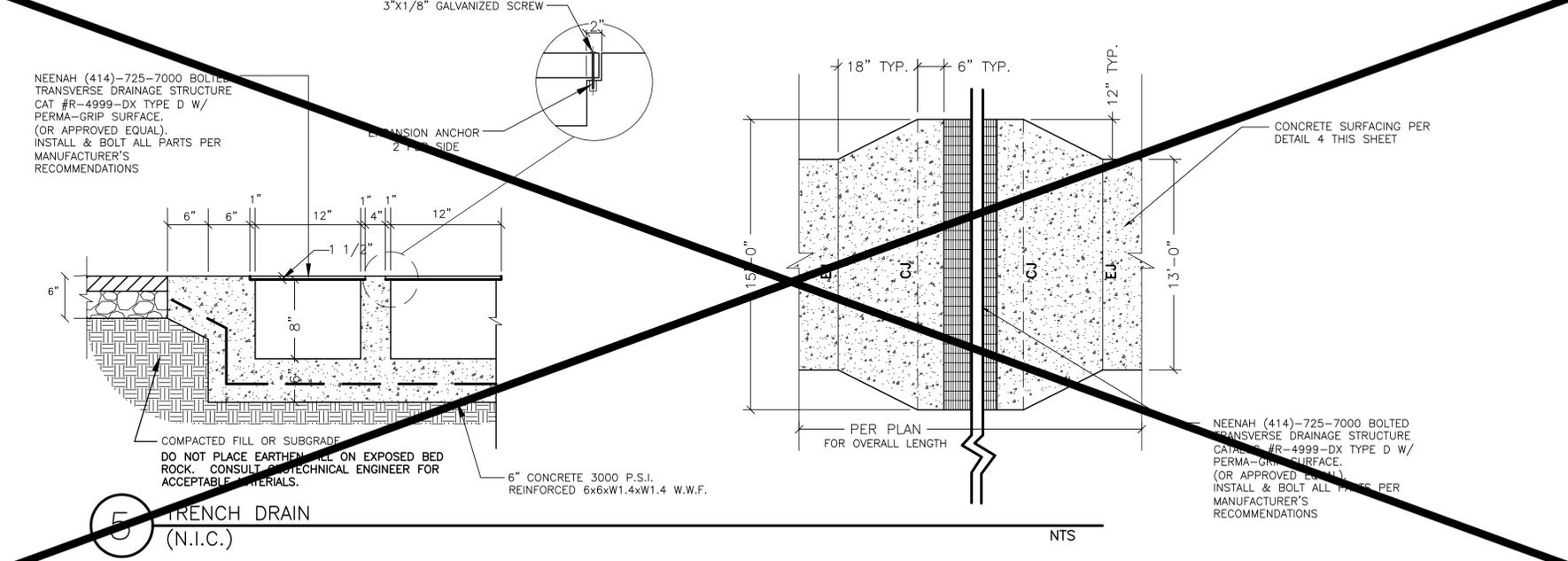
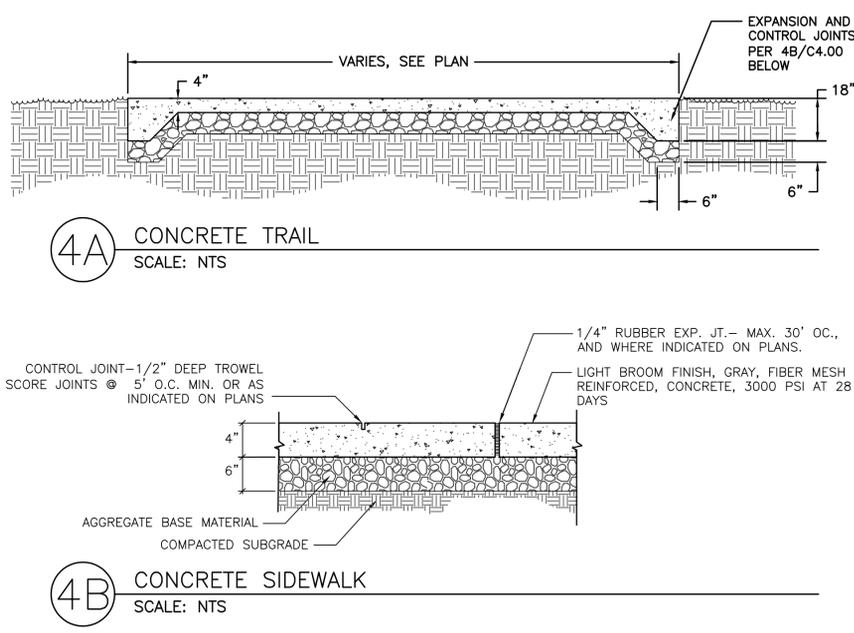
**1** TYPICAL TRAIL SECTION  
 SCALE: NTS



**2** ASPHALT TRAIL PAVING  
 SCALE: NTS



**3** CONCRETE FLUSH CURB  
 SCALE: NTS



REGULATORY AND INFORMATIONAL SIGN SCHEDULE

W1-2(LEFT) 18"x18"	W1-2(RIGHT) 18"x18"	W1-5 18"x18"	R5-1 30"x30"	R9-7 12"x18"
R5-3 24"x24"	R9-6 12"x18"	ROADWAY BIKE TRAIL 30"x30" 18"x18" R1-1	R2-1 18"x24"	

NOTE:  
 ALL SIGNS TO MEET THE MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES - LATEST EDITION) NUMBERING AND SIZING SYSTEM AND SHALL BE BUILT CONFORMING TO THOSE STANDARDS.

C:\01018\PHASE IV\SHEETS\C4.00.DWG: 2013-09-21

REVISIONS

NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE

**SITE DETAILS**

PROJECT NUMBER	DATE
01018	4-18-2014
DRAWN BY	SCALE
BB	NTS
CHECKED BY	
LD	
SHEET NUMBER	

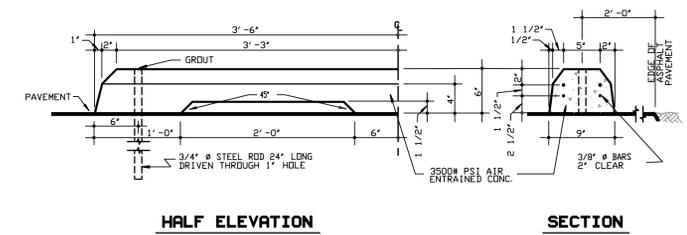
**C4.00**

REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

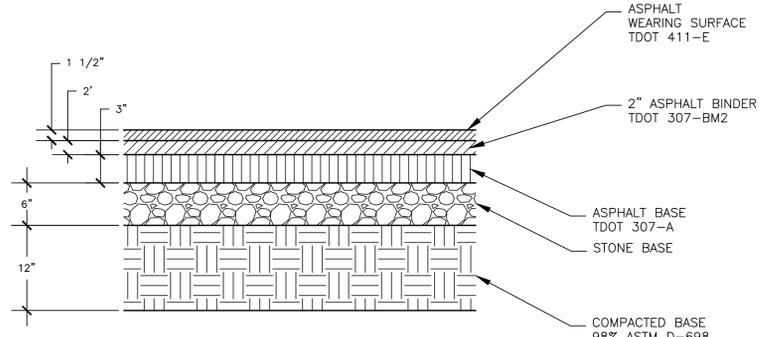
**SITE DETAILS**

PROJECT NUMBER <b>01018</b>	DATE <b>4-18-2014</b>
DRAWN BY <b>BB</b>	SCALE <b>NTS</b>
CHECKED BY <b>LD</b>	
SHEET NUMBER	

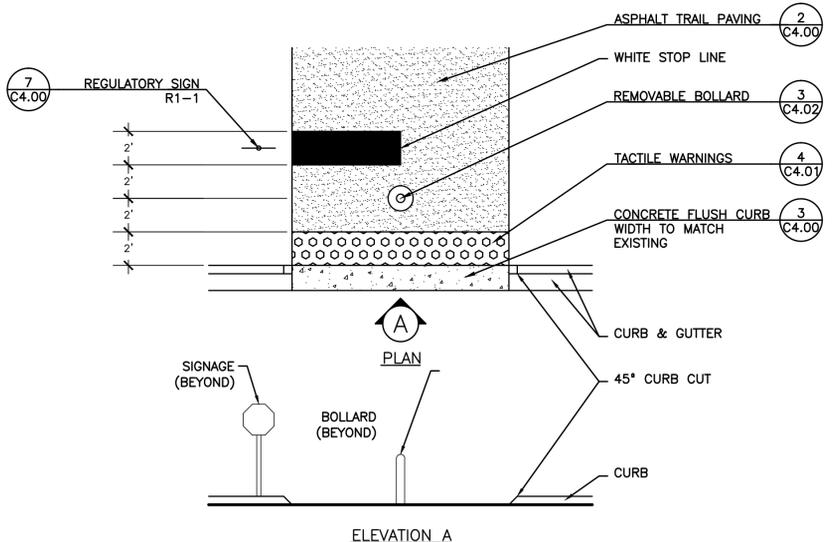
**C4.01**



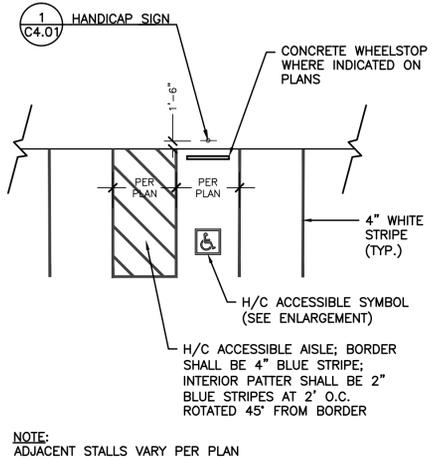
**3 PRECAST CONCRETE CURB STOP**  
SCALE: NTS



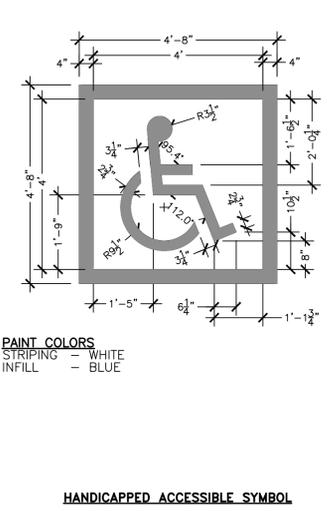
**6 HEAVY DUTY ASPHALT**  
SCALE: NTS



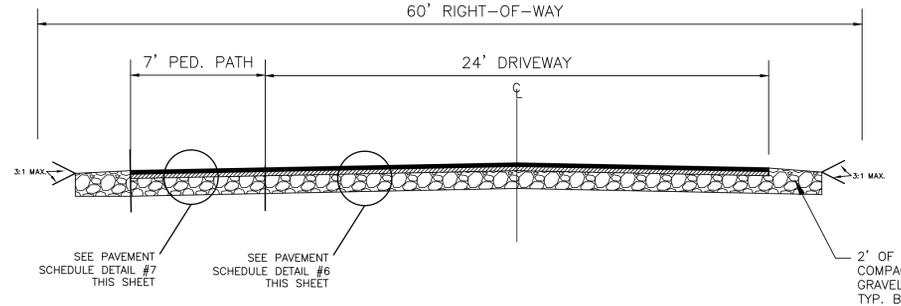
**9 TRAIL CURB CUT**  
SCALE: NTS



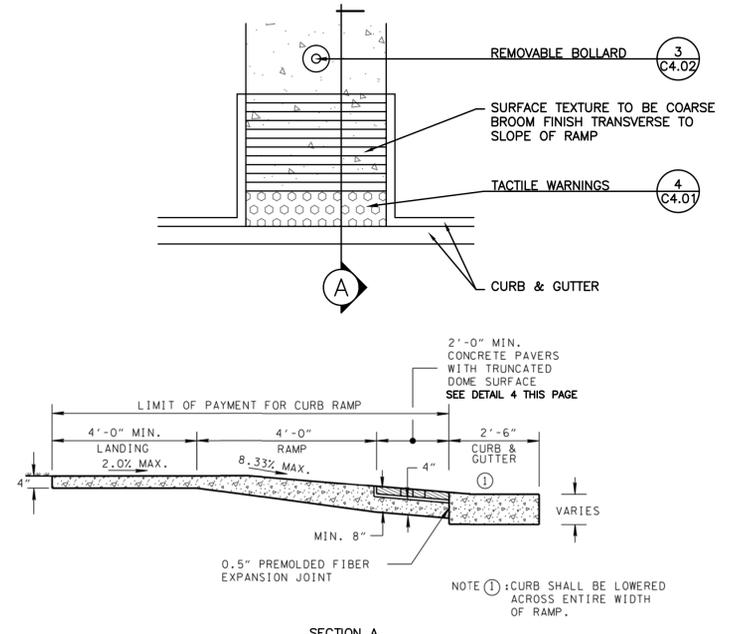
**1 HANDICAP SIGN**  
SCALE: NTS



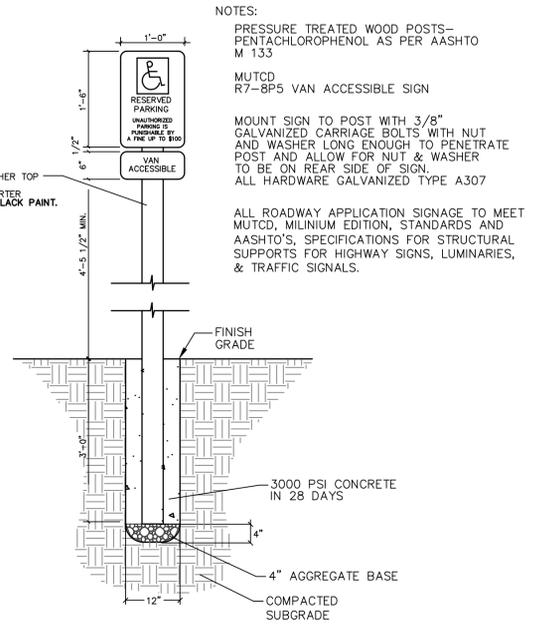
**2 HANDICAPPED PARKING LAYOUT**  
SCALE: NTS



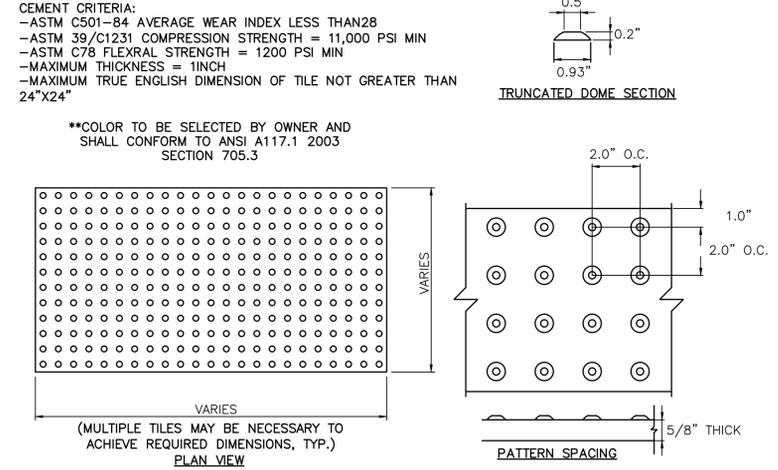
**5 ROADWAY (TYPICAL SECTION)**  
SCALE: NTS



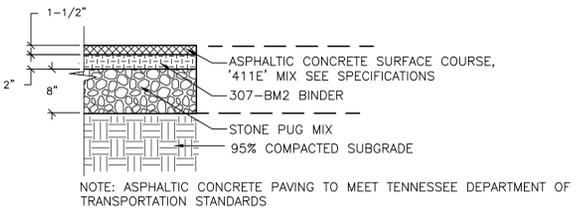
**8 HANDICAP SIDEWALK RAMP**  
SCALE: NTS



**1 HANDICAP SIGN**  
SCALE: NTS



**4 TACTILE WARNINGS**  
SCALE: NTS

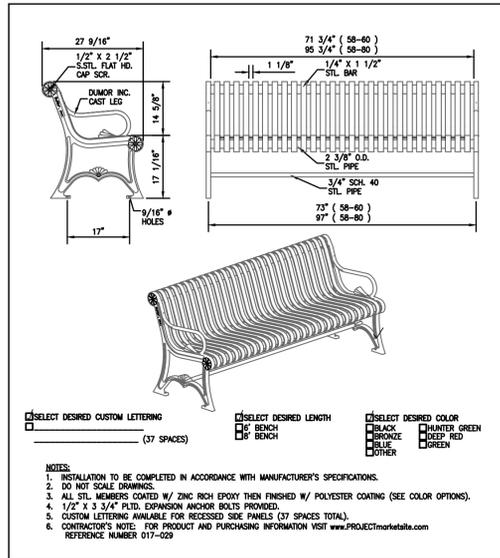


**7 LIGHT DUTY ASPHALT**  
SCALE: NTS

**NOTES:**  
PRESSURE TREATED WOOD POSTS—PENTACHLOROPHENOL AS PER AASHTO M 133  
MUTCD R7-8P5 VAN ACCESSIBLE SIGN  
MOUNT SIGN TO POST WITH 3/8" GALVANIZED CARRIAGE BOLTS WITH NUT AND WASHER LONG ENOUGH TO PENETRATE POST AND ALLOW FOR NUT & WASHER TO BE ON REAR SIDE OF SIGN. ALL HARDWARE GALVANIZED TYPE A307  
ALL ROADWAY APPLICATION SIGNAGE TO MEET MUTCD, MILINIUM EDITION, STANDARDS AND AASHTO'S, SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, & TRAFFIC SIGNALS.  
4X4 PTP POST - CHAMFER TOP CUT TO PROPER LENGTH. PAINT ALL POSTS W/ PORTER OR EQUIV. SEMI-GLOSS BLACK PAINT.  
UNAUTHORIZED PARKING IS PROHIBITED BY A FINE UP TO \$500  
FINISH GRADE  
3000 PSI CONCRETE IN 28 DAYS  
4" AGGREGATE BASE  
COMPACTED SUBGRADE  
4" WHITE STRIPE (TYP.)  
H/C ACCESSIBLE AISLE; BORDER SHALL BE 4" BLUE STRIPE; INTERIOR PATTERN SHALL BE 2" BLUE STRIPES AT 2' O.C. ROTATED 45° FROM BORDER  
NOTE: ADJACENT STALLS VARY PER PLAN  
PAIN COLORS STRIPING - WHITE INFILL - BLUE  
CEMENT CRITERIA:  
-ASTM C501-84 AVERAGE WEAR INDEX LESS THAN 28  
-ASTM 39/C1231 COMPRESSION STRENGTH = 11,000 PSI MIN  
-ASTM C78 FLEXRAL STRENGTH = 1200 PSI MIN  
-MAXIMUM THICKNESS = 1INCH  
-MAXIMUM TRUE ENGLISH DIMENSION OF TILE NOT GREATER THAN 24"X24"  
\*\*COLOR TO BE SELECTED BY OWNER AND SHALL CONFORM TO ANSI A117.1 2003 SECTION 705.3  
TRUNCATED DOME SECTION  
PATTERN SPACING  
5/8" THICK  
NOTES:  
1. INSTALL ALL COMPONENTS PER MANUFACTURER'S SPECIFICATIONS.  
2. SUBMIT PRODUCT DETAILS, PATTERNS AND COLOR SAMPLES FOR OWNER SELECTION PRIOR TO ORDERING OR INSTALLATION.  
3. WIDTH OF DETECTABLE WARNING AREA SHALL BE A MINIMUM OF 2 FEET AND VARY WITH WIDTH OF RAMP.  
4. DETECTABLE WARNING AREA CAN BE SQUARE WHERE USED IN A CURB RADIUS.  
5. DETECTABLE WARNING DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN TEXTURED DOMES.  
6. RAMP AND WING SLOPES SHALL NOT BE STEEPER THAN 12:1  
7. GUTTER FLOW LINE AND PLAN PROFILE SHALL BE MAINTAINED THROUGH THE RAMP AREA. DRAINAGE STRUCTURES, MAST ARMS, LIGHT POLES, AND OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN LINE WITH RAMPS. LOCATION OF THE RAMP SHALL TAKE PRECEDENCE OVER LOCATION OF OBSTRUCTIONS EXCEPT WHERE EXISTING OBSTRUCTIONS ARE BEING UTILIZED IN THE NEW CONSTRUCTION.

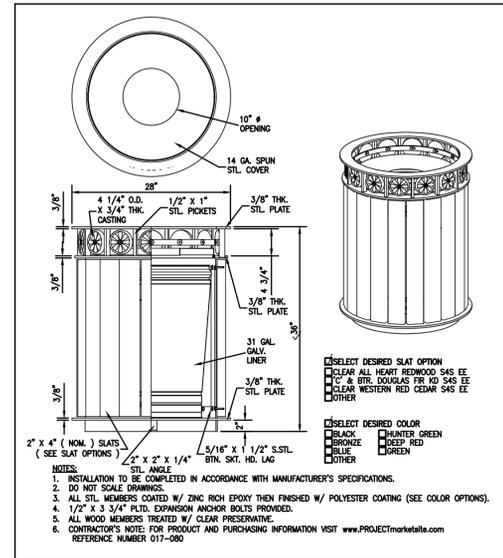
C:\V10\PHASE IV\SHEETS\C4.01.DWG: 2013-06-21

- NOTES:**
1. DETAIL PROVIDED FOR BID REFERENCE ONLY. CONTRACTOR SHALL PROVIDE MANUFACTURER'S SHOP DRAWINGS PRIOR TO ORDERING FINAL MATERIALS.
  2. ALL EXPOSED ITEMS SHALL BE POWDER COATED GREEN TO MATCH SITE FURNITURE, OR APPROVED EQUAL.

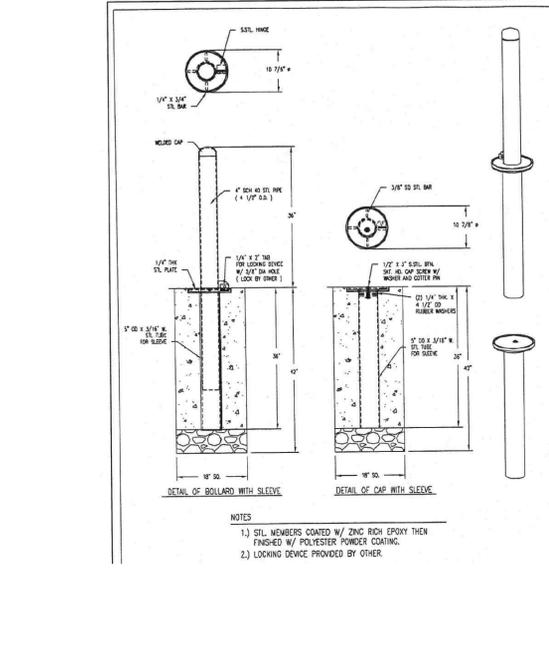


1 BENCH  
SCALE: NTS

- NOTES:**
1. DETAIL PROVIDED FOR BID REFERENCE ONLY. CONTRACTOR SHALL PROVIDE MANUFACTURER'S SHOP DRAWINGS PRIOR TO ORDERING FINAL MATERIALS.
  2. ALL EXPOSED ITEMS SHALL BE POWDER COATED GREEN TO MATCH SITE FURNITURE, OR APPROVED EQUAL.

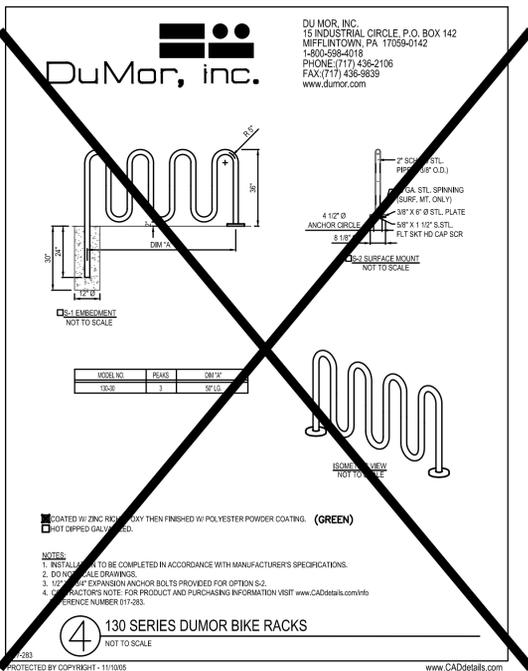


2 WASTE RECEPTACLE  
SCALE: NTS

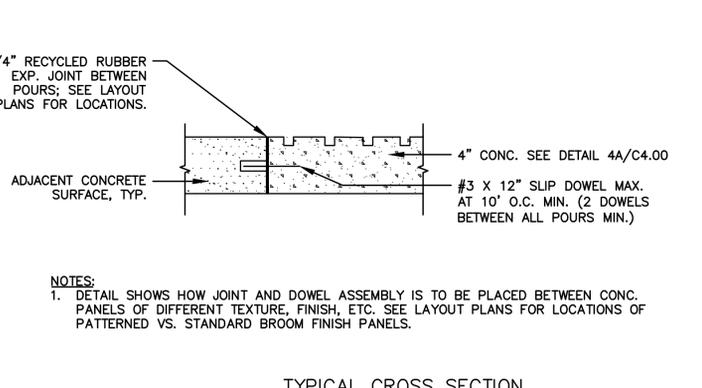
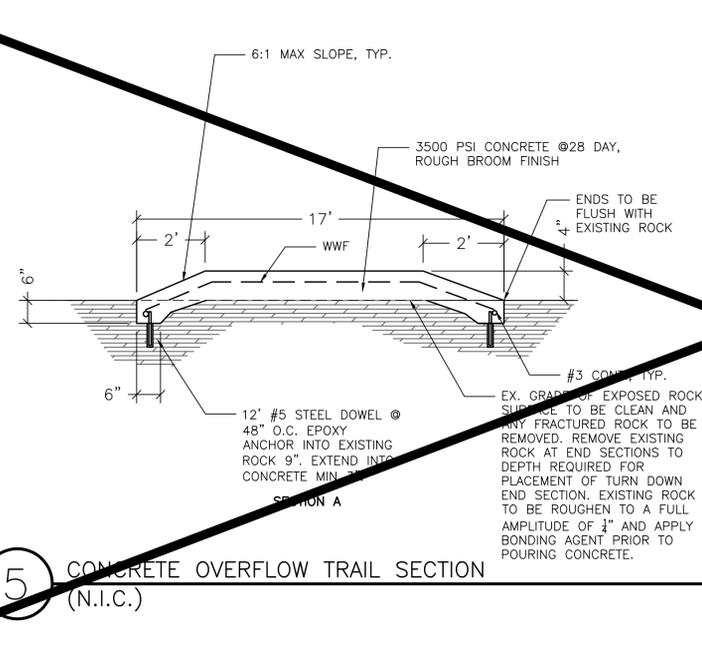


3 REMOVABLE BOLLARD  
SCALE: NTS

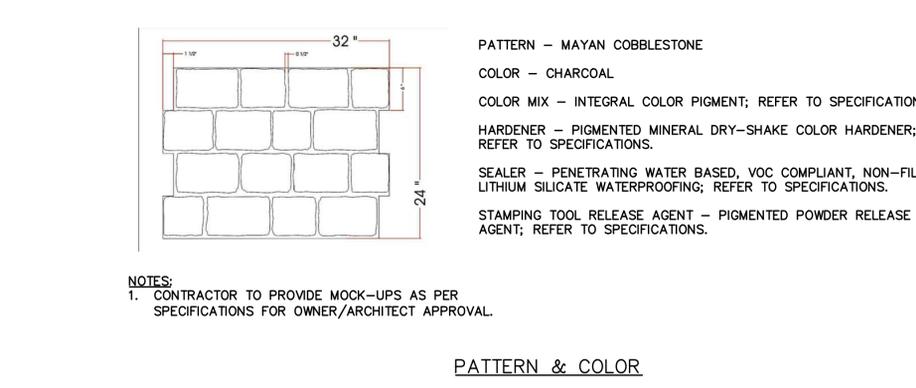
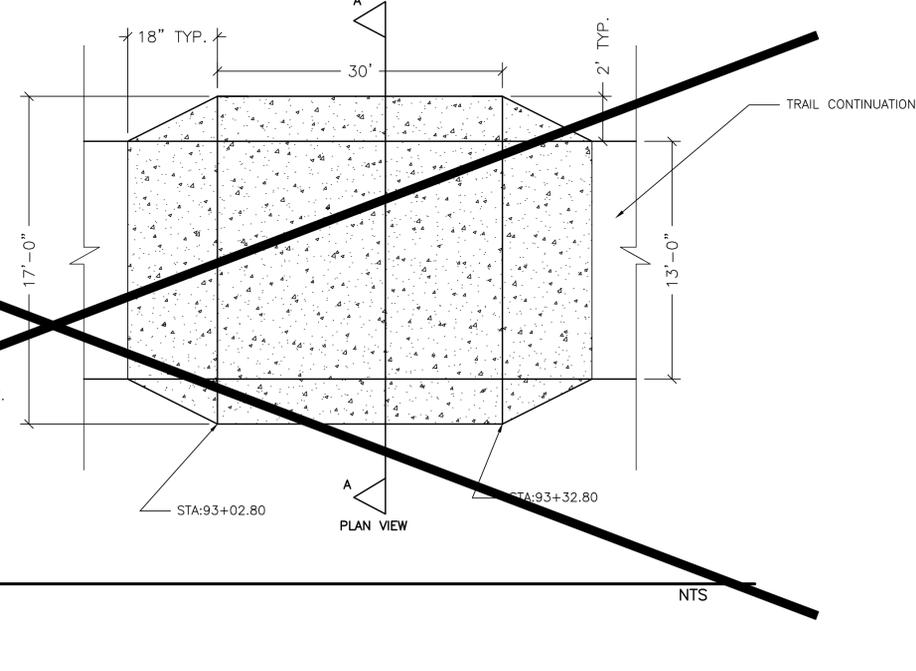
- NOTES:**
1. DETAIL PROVIDED FOR BID REFERENCE ONLY. CONTRACTOR SHALL PROVIDE MANUFACTURER'S SHOP DRAWINGS PRIOR TO ORDERING FINAL MATERIALS.
  2. BOLLARDS TO BE 36" SCHEDULE 40 STEEL BOLLARD W/ GROUND SLEEVE AND CAP.
  3. ALL EXPOSED ITEMS SHALL BE POWDER COATED GREEN TO MATCH SITE FURNITURE, OR APPROVED EQUAL.



4 130 SERIES DUMOR BIKE RACKS  
SCALE: NTS  
(N.I.C.)



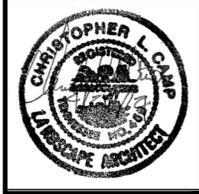
6 STAMPED CONCRETE  
SCALE: NTS



PATTERN & COLOR



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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
 MURFREESBORO, TENNESSEE

REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

**SITE DETAILS**

PROJECT NUMBER	DATE
01018	4-18-2014
DRAWN BY	SCALE
BB	NTS
CHECKED BY	
LD	
SHEET NUMBER	

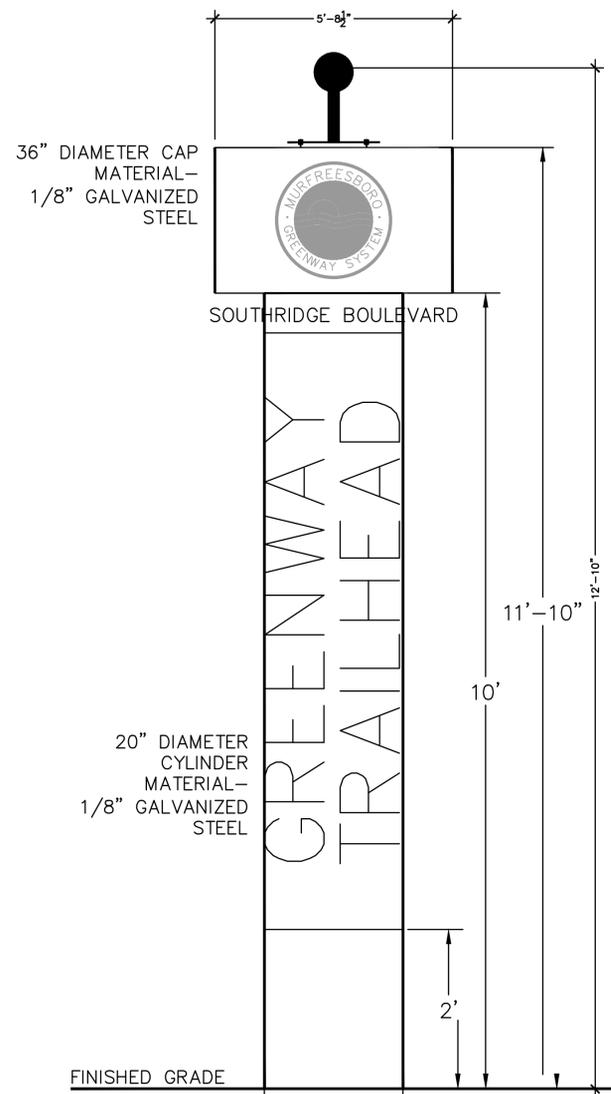
**C4.02**



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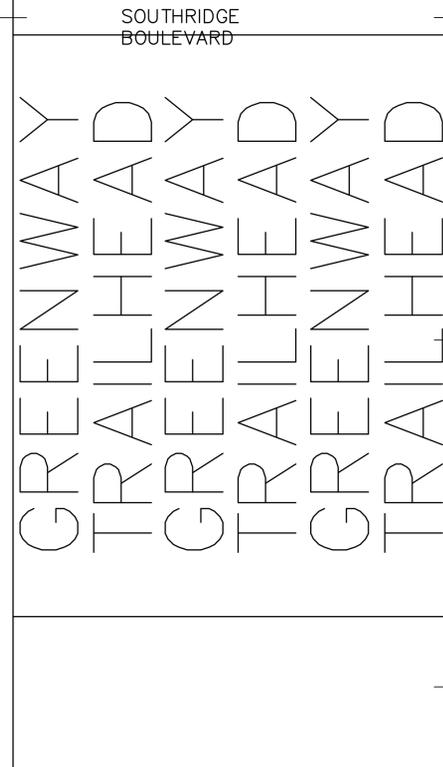
**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
PREPARED FOR  
**MURFREESBORO TENNESSEE**



**ELEVATION**

TEXT:  
ALL CAPS  
FUTURA HEAVY  
LETTERS 2" H.  
COLOR- BLACK

TEXT WILL  
CHANGE  
ACCORDING TO  
LOCATION.



**COLUMN LAYOUT**

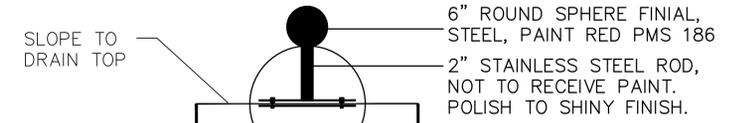
BACKGROUND  
COLOR- YELLOW  
PMS 129

TEXT:  
ALL CAPS  
PALM SPRINGS  
LETTERS 9" H.  
COLOR- WHITE

BACKGROUND  
COLOR- BLUE  
PMS 280

NOTE:  
TEXT AND COLOR  
BACKGROUNDS TO BE  
2 MIL. OPAQUE  
VINYL.

SEE COLOR MOCKUP



**ENLARGEMENT-  
ROD  
ATTACHMENT**

6" ROUND SPHERE FINIAL,  
STEEL, PAINT RED PMS 186

2" STAINLESS STEEL ROD,  
NOT TO RECEIVE PAINT.  
POLISH TO SHINY FINISH.

FULL PENETRATION WELD.

SEAL BOLT PENETRATION WITH  
EXTERIOR SILICONE SEALANT

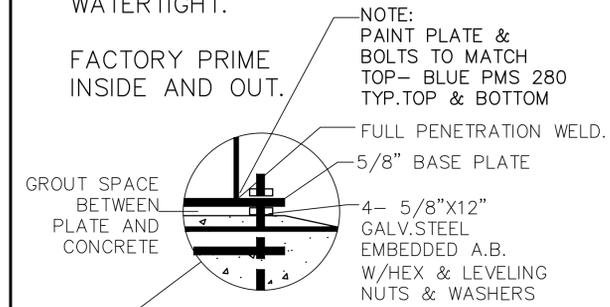
1/8" GALVANIZED STEEL  
BASE PLATE

NOTE:  
PAINT PLATE &  
BOLTS TO MATCH  
TOP- BLUE PMS 280  
TYP.TOP & BOTTOM

4-1/2"x3" ST. STEEL  
BOLT,WELDED ON INSIDE.  
HEX & LEVELING NUTS  
TO BE INSTALLED AS  
SHOWN.

NOTE:  
WELD ALL SEAMS.  
ALL WELDS FULL,  
GROUND SMOOTH,  
WATERTIGHT.

FACTORY PRIME  
INSIDE AND OUT.



**ENLARGEMENT-  
COLUMN  
ATTACHMENT**

NOTE:  
PAINT PLATE &  
BOLTS TO MATCH  
TOP- BLUE PMS 280  
TYP.TOP & BOTTOM

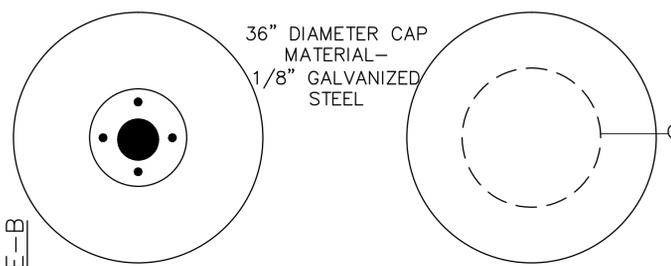
FULL PENETRATION WELD.

5/8" BASE PLATE

4- 5/8"x12"  
GALV.STEEL  
EMBEDDED A.B.  
W/HEX & LEVELING  
NUTS & WASHERS

NOTE:  
WELD ALL SEAMS.  
ALL WELDS FULL,  
GROUND SMOOTH,  
WATERTIGHT.

FACTORY PRIME  
INSIDE AND OUT.



**PLAN VIEW  
TOP OF CAP**

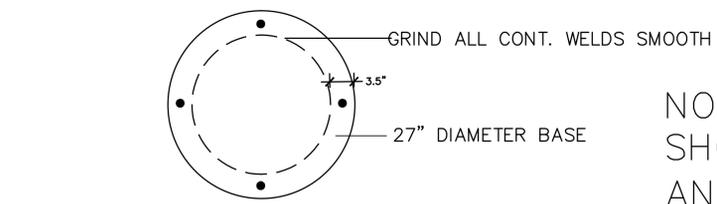
**PLAN VIEW  
UNDERSIDE OF CAP**



**CAP LAYOUT**

BACKGROUND  
COLOR- BLUE PMS  
280

SIX COLOR LOGO  
TO BE PROVIDED



**COLUMN BASE PLATE  
PLAN VIEW**

NOTE:  
SHOP DRAWINGS  
AND/OR PROOF OF  
TEXT AND COLOR  
REQUIRED FOR  
OWNER'S APPROVAL.

REVISIONS

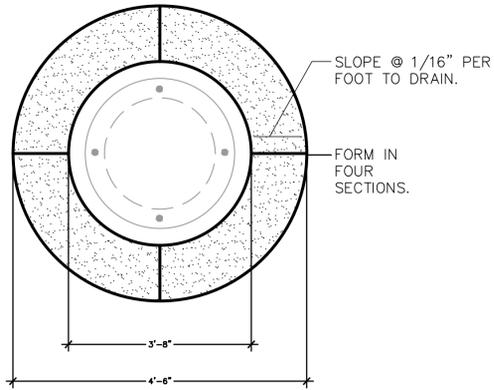
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03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE

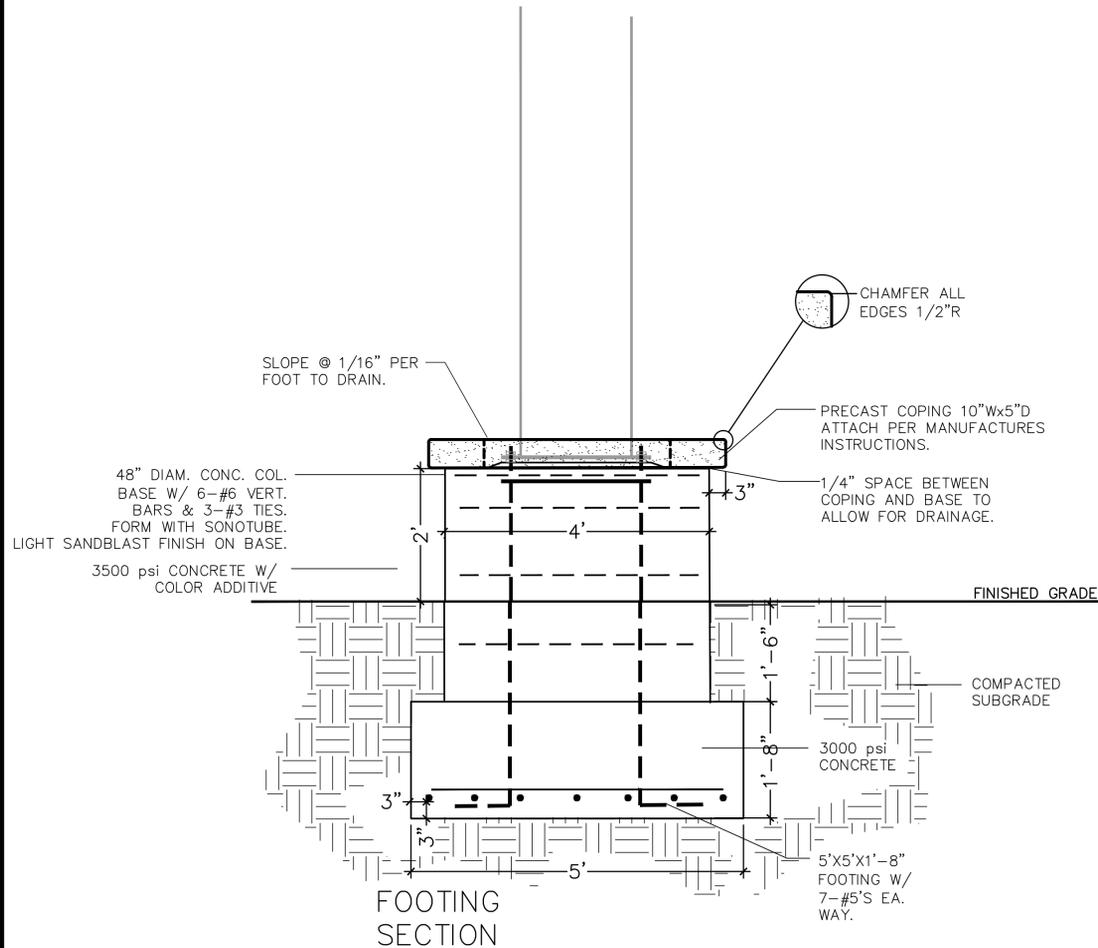
**SITE DETAILS**

PROJECT NUMBER <b>01018</b>	DATE <b>4-18-2014</b>
DRAWN BY <b>BB</b>	SCALE <b>NTS</b>
CHECKED BY <b>LD</b>	

SHEET NUMBER  
**C4.03**



COPING PLAN VIEW



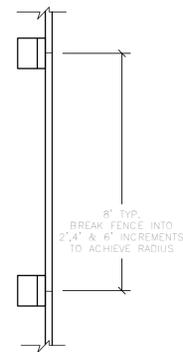
FOOTING SECTION

1 TRAIL MARKER FOUNDATION  
SCALE: NTS

NOTE:  
CONTRACTOR TO REFER TO PROFILE SHEETS FOR SIZE AND LOCATION OF ALL GUARDRAIL FENCING.

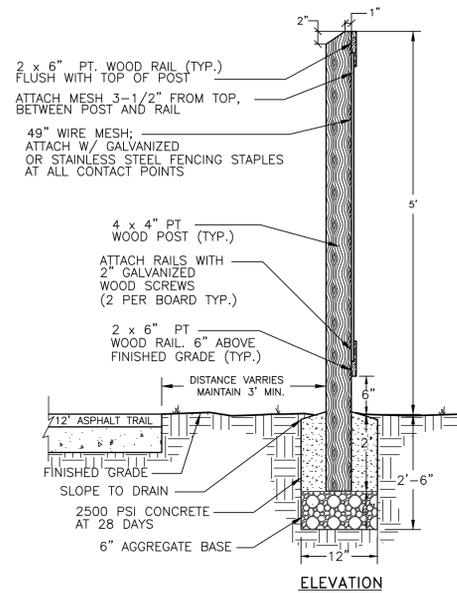
CONTRACTOR TO REINFORCE ALL CORNERS WITH AN EXTRA 2X6, BRACED DIAGONALLY IN EACH DIRECTION FROM CORNER POST.

2X6 CROSS BRACES TO ABUTT SQUARELY AT POSTS. USE FOUR SCREWS PER JUNCTION.

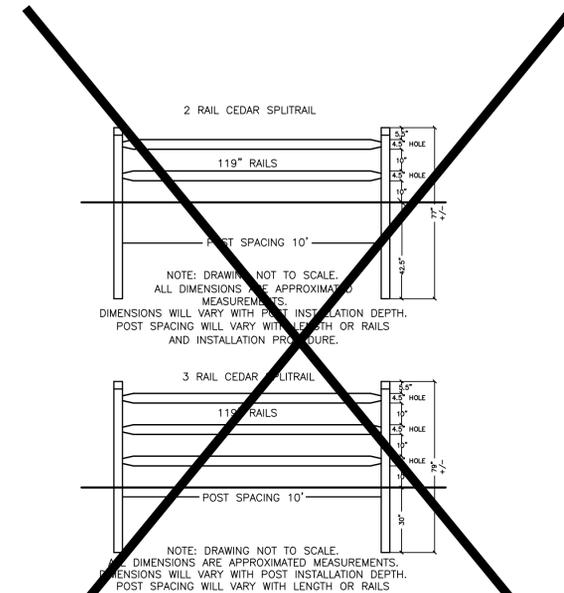


PLAN VIEW

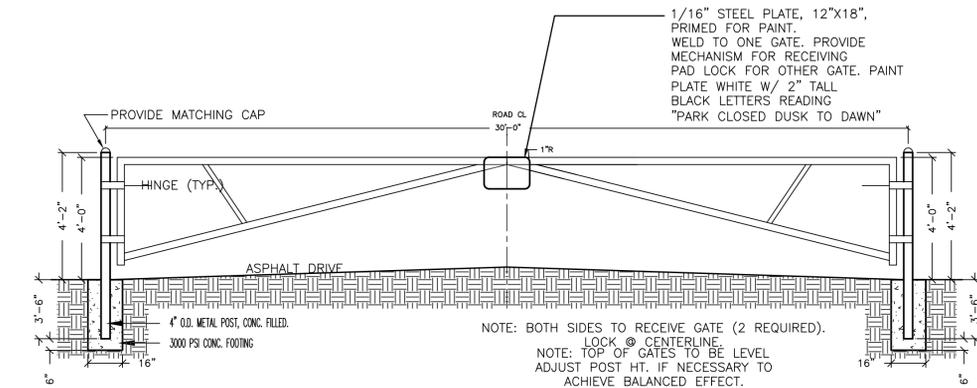
2 SAFETY RAILING  
SCALE: NTS



ELEVATION



3 SPLIT RAIL FENCE  
(N.I.C.) NTS



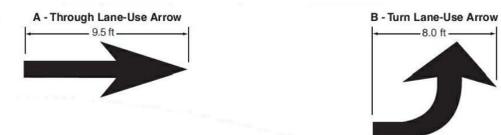
NOTE: EACH GATE TO RECEIVE TIE BACK POST IDENTICAL TO GATE POST. PROVIDE MECHANISM FOR PADLOCK AT TIE BACK POSTS. SEE PLANS FOR LOCATION.

4 TRAILHEAD ACCESS GATE  
SCALE: NTS

ALL STEEL JOINTS TO RECEIVE CONT. WELD USE NO SPOT WELDS.  
GRIND ALL WELDS SMOOTH W/ NO BARBS.  
PAINT TO BE EXTERIOR SEMI-GLOSS ENAMEL. APPLY ALL PAINT PER MANUFACTURER'S SPECS. OVER PREVIOUSLY PRIMER RED PAINTED STEEL.  
PAINT ALL STEEL SURFACES BLACK.  
PROVIDE SHOP DRAWINGS FOR OWNER'S REPRESENTATIVE'S APPROVAL.

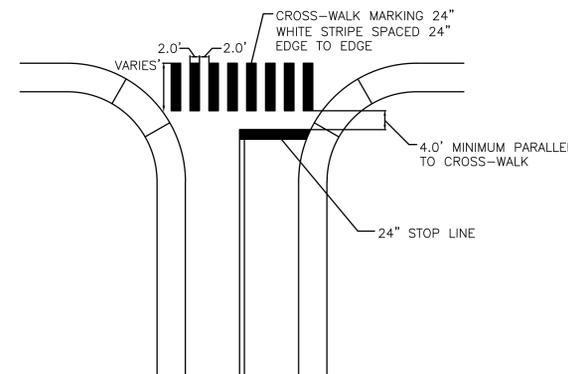
ALL POSTS ARE STANDARD WEIGHT GALV. PIPE (SCH. 40). FRAMEWORK IS WELDED USING 2" O.D. STANDARD PIPE FOR EXTERIOR FRAME & 1 5/8" O.D. FOR INTERIOR BRACING. LATCH ASSEMBLY IS 3/8" X 1" PRESSED STEEL.

PROVIDE MECHANISM FOR RECEIVING PADLOCK @ CENTERLINE OF ROAD. OWNER TO PROVIDE PADLOCK. COORDINATE WITH OWNER FOR MECHANISM TYPE.



TYPICAL DRIVE LANE DIRECTIONAL ARROWS

5 PAVEMENT MARKINGS  
SCALE: NTS



6 CROSSWALK & STOP BAR  
SCALE: NTS



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STONES RIVER GREENWAY  
EXTENSION  
PHASES 4A  
PREPARED FOR  
MURFREESBORO  
TENNESSEE

REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE  
**SITE DETAILS**

PROJECT NUMBER  
**01018**

DATE  
**4-18-2014**

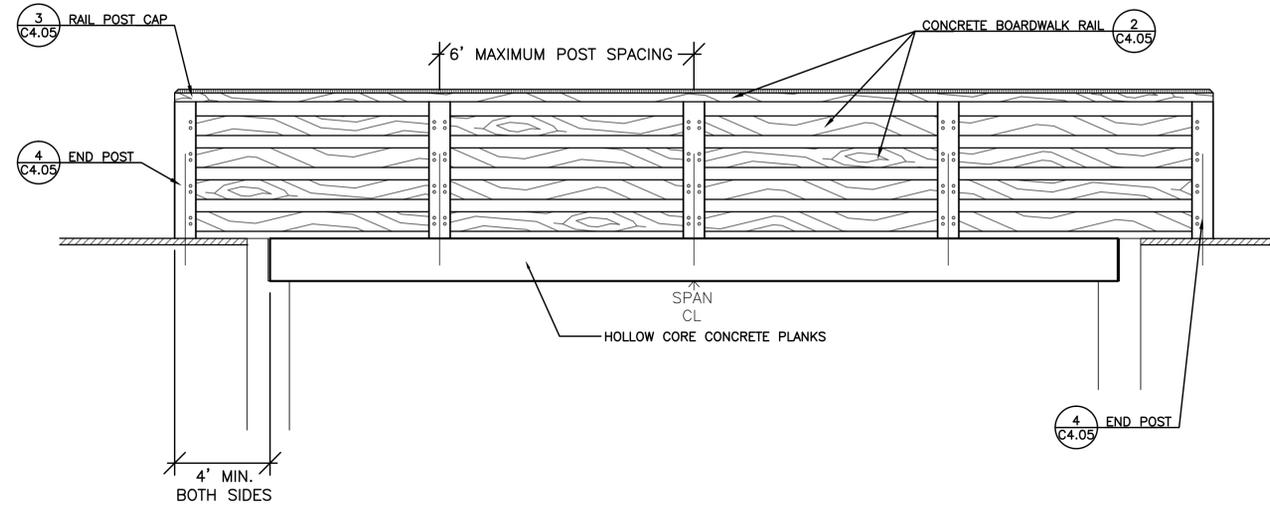
DRAWN BY  
**BB**

CHECKED BY  
**LD**

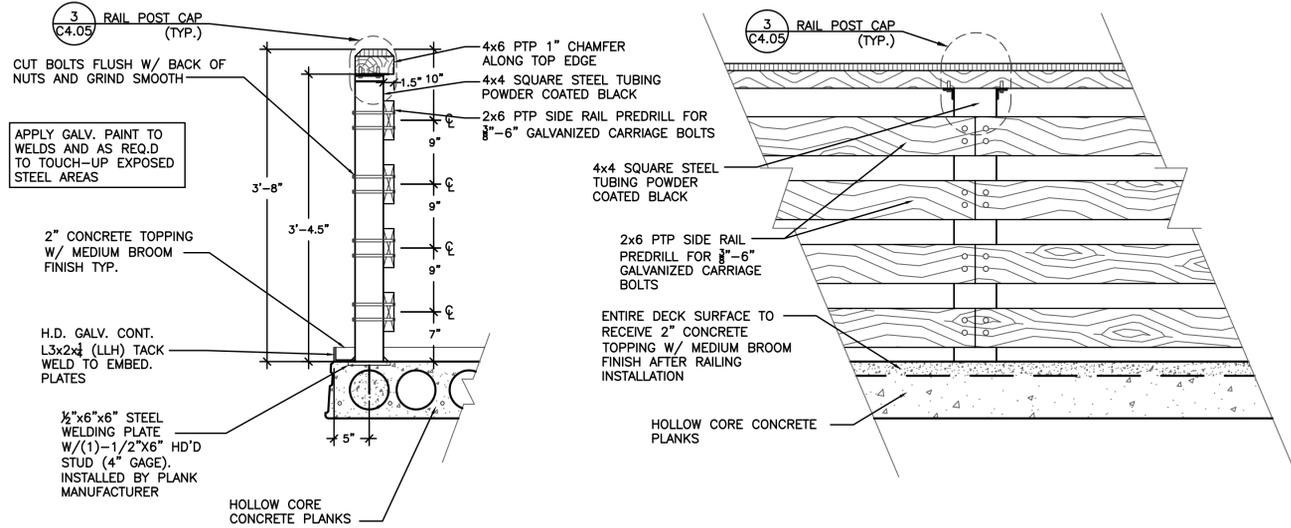
SCALE  
**NTS**

SHEET NUMBER  
**C4.04**

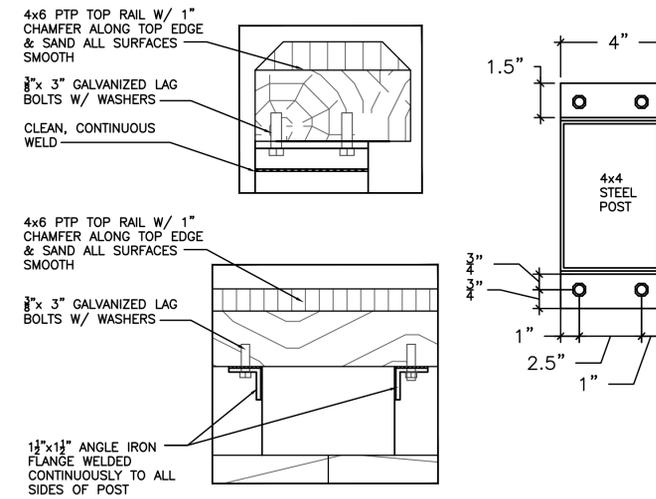
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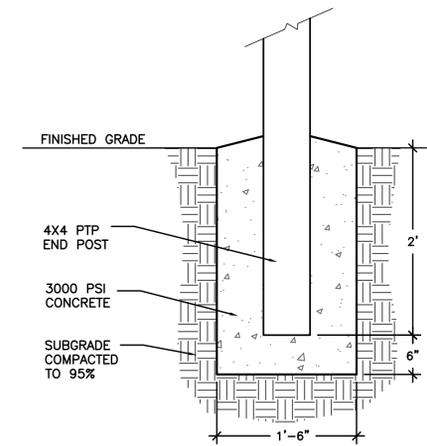
**1** CONCRETE BOARDWALK ELEVATION  
 SCALE: NTS



**2** CONCRETE BOARDWALK RAIL  
 SCALE: NTS



**3** RAIL POST CAP  
 SCALE: NTS



**4** END POST  
 SCALE: NTS

**STONES RIVER GREENWAY  
 EXTENSION  
 PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO**  
**TENNESSEE**

REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

**SITE DETAILS**

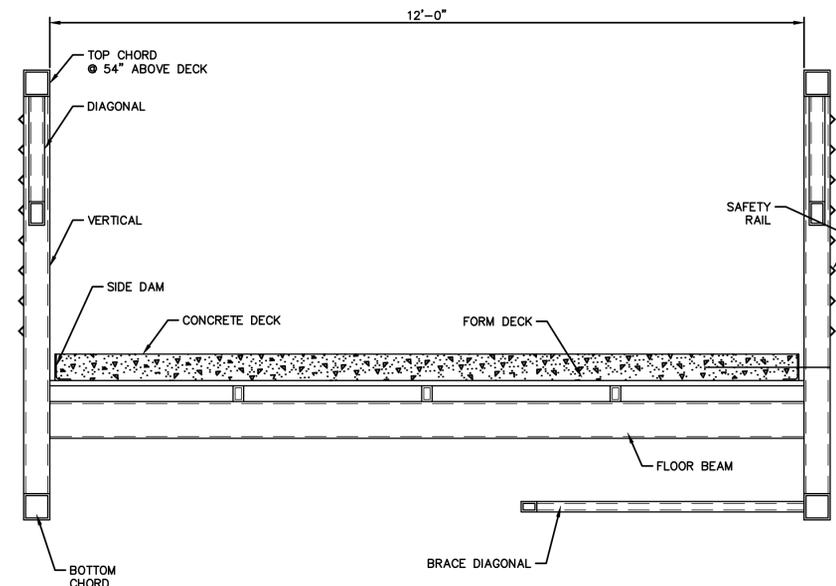
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DRAWN BY	SCALE
BB	NTS
CHECKED BY	
LD	

SHEET NUMBER  
**C4.05**

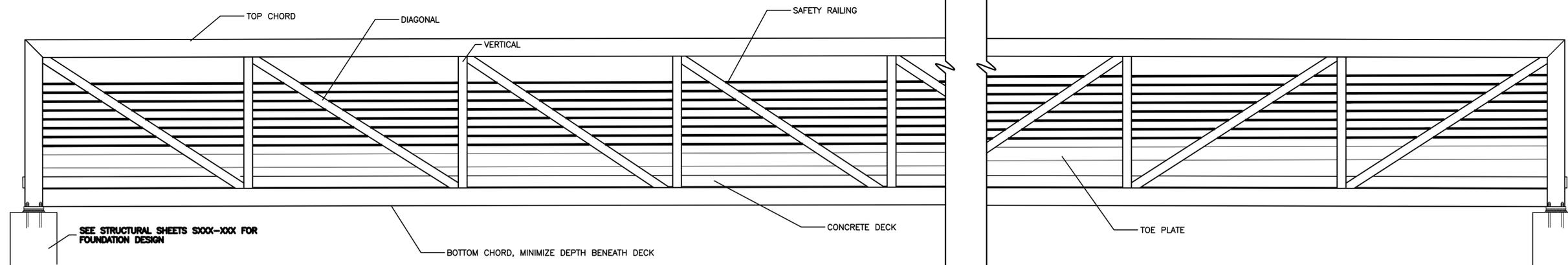
NOTE:  
 DETAILS ARE SHOWN AS BASIS OF DESIGN FOR BID PURPOSES ONLY (REFER TO  
 STRUCTURAL FOR FINAL CONSTRUCTION DRAWINGS). CONTRACTOR TO SUBMIT  
 SHOP DRAWINGS SEALED BY BRIDGE ENGINEER PRIOR TO BEGINNING  
 CONSTRUCTION.



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2 TYPICAL BRIDGE SECTION  
 NTS



3 TYPICAL BRIDGE ELEVATION  
 NTS

STONES RIVER GREENWAY  
 EXTENSION  
 PHASES 4A  
 PREPARED FOR  
 MURFREESBORO TENNESSEE

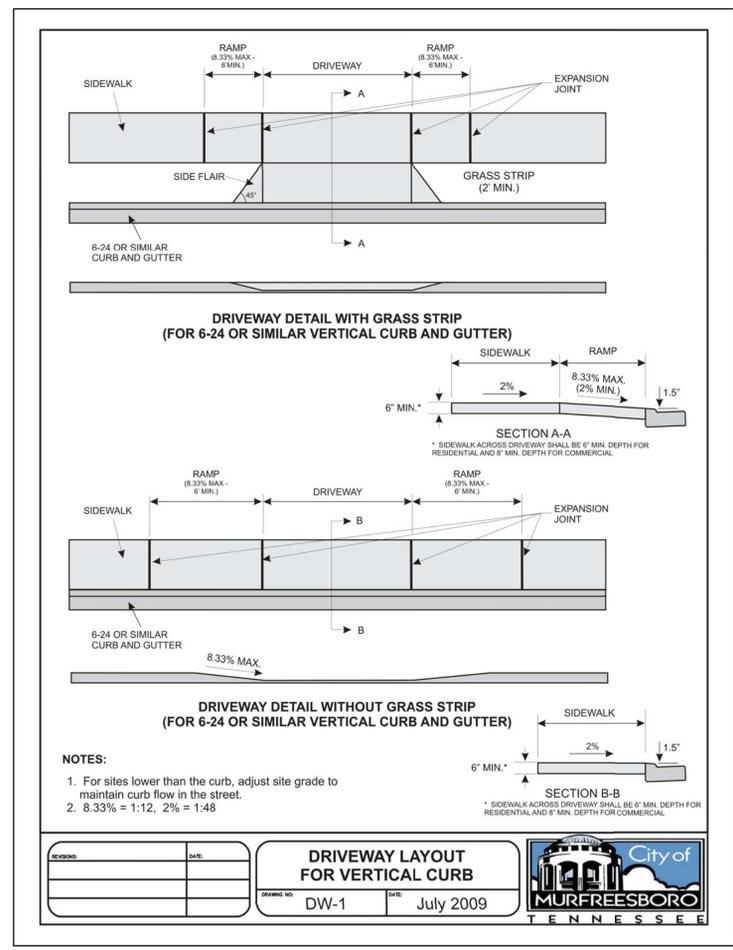
REVISIONS		
NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

SHEET TITLE  
 SITE DETAILS

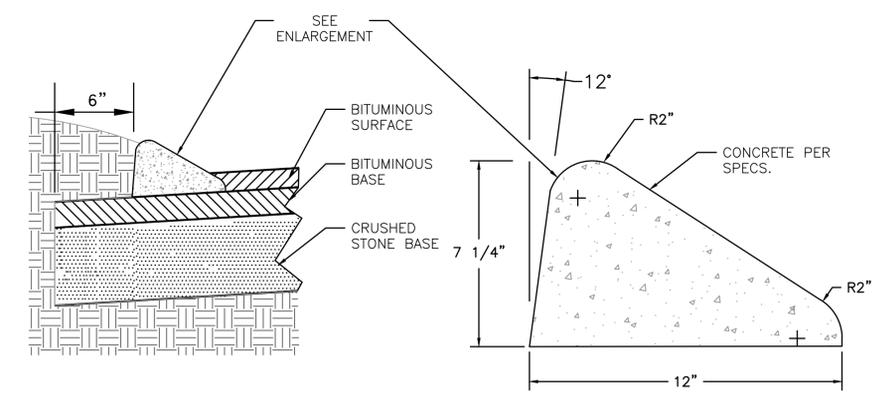
PROJECT NUMBER 01018	DATE 4-18-2014
DRAWN BY BB	SCALE NTS
CHECKED BY LD	

SHEET NUMBER  
**C4.06**

C:\V1018\PHASE IV\SHEDS\C406\_C406.DWG: 2013-08-21



- NOTES:**
1. For sites lower than the curb, adjust site grade to maintain curb flow in the street.
  2. 8.33% = 1:12, 2% = 1:48



**1** CONCRETE DRIVEWAY APRON  
 SCALE: NTS

**3** CONCRETE EXTRUDED CURB  
 SCALE: NTS

**REVISIONS**

NO.	DATE	COMMENTS
10/15/13		CITY SUBMITTAL
03/03/14		TDOT SUBMITTAL
04/21/14		TDOT RE-SUBMITTAL
05/09/14		TDOT RE-SUBMITTAL

**SHEET TITLE**  
 SITE DETAILS

PROJECT NUMBER	DATE
01018	4-18-2014
DRAWN BY	SCALE
BB	NTS
CHECKED BY	
LD	
SHEET NUMBER	

**C4.07**



**GENERAL**

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS BEFORE STARTING WORK. PROMPTLY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE CONTRACT DOCUMENTS.
2. THE WALLS AND FOUNDATIONS ARE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE FULL STRUCTURE, INCLUDING SUPERSTRUCTURE, IS COMPLETED. THE ERECTION PROCEDURE AND SEQUENCE INCLUDING THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. THE DESIGN OF THE PREFABRICATED STEEL BRIDGE AND ITS STABILITY IS THE SOLE RESPONSIBILITY OF THE BRIDGE MANUFACTURER.
4. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR JOBSITE SAFETY AND FOR COMPLYING WITH ALL HEALTH AND SAFETY PRECAUTIONS AS REQUIRED BY ANY REGULATORY AGENCY. IN PERFORMING CONSTRUCTION OBSERVATION VISITS TO THE JOBSITE, THE STRUCTURAL ENGINEER WILL HAVE NO CONTROL OVER, OR RESPONSIBILITY FOR, THE CONTRACTOR'S MEANS, METHODS, SEQUENCES, TECHNIQUES, OR PROCEDURES IN PERFORMING THE WORK.
5. THE CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL REQUIREMENTS WITH THE STRUCTURAL DRAWINGS, INCLUDING THE LOCATION OF MISCELLANEOUS ITEMS AFFECTING THE STRUCTURAL WORK SUCH AS OPENINGS, BENT PLATES, INSERTS, ETC. PROMPTLY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS.
6. CONTRACTOR AND SUBCONTRACTORS SHALL CHECK AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTING TO THE ARCHITECT.
7. SHOULD ANY OF THE INSTRUCTIONS SHOWN ON THE DRAWINGS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, PROMPTLY NOTIFY THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE AFFECTED WORK.

**DELEGATED DESIGN OF STRUCTURE COMPONENTS**

1. DESIGN OF COMPONENTS THAT ARE NOT PART OF THE WALLS AND FOUNDATIONS ARE DELEGATED TO BE COMPLETED BY A SPECIALTY STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE AND RETAINED BY THE CONTRACTOR. THESE COMPONENTS INCLUDE BUT ARE NOT LIMITED TO: GUARDRAILS, PREFABRICATED STEEL BRIDGES, PRE-CAST CONCRETE HOLLOW-CORE PLANKS, EXCAVATION SUPPORT ETC. THE DESIGN SHALL INCLUDE THE CONNECTIONS TO THE WALLS AND FOUNDATIONS WHERE APPLICABLE.
2. THE REVIEW OF THE SHOP DRAWING SUBMITTAL BY THE STRUCTURAL ENGINEER SHALL ONLY BE TO VERIFY COMPLIANCE WITH DESIGN INTENT, APPLICATION OF LOADS SPECIFIED, AND REVIEW OF THE WALLS AND FOUNDATIONS TO RESIST THE LOADS IMPOSED BY THE COMPONENT CONNECTIONS.

**DESIGN LOAD INFORMATION**

1. UNIFORM LIVE LOAD	90 PSF
2. VEHICULAR LOAD	10,000 LBS
3. STREAM / WIND LOADING	SEE SPEC'S.

**FOUNDATION / EARTHWORK UNDER BUILDING**

1. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS PROVIDED IN A REPORT DATED SEPTEMBER 25, 2013 PREPARED BY TTL (REPORT NO. 100813161).
2. FOUNDATION SYSTEMS CONSISTS OF EITHER SOIL-SUPPORTED FOUNDATIONS HAVING A DESIGN BEARING CAPACITY OF 2,000 PSF OR ROCK-SUPPORTED FOUNDATIONS HAVING A DESIGN BEARING CAPACITY OF 10,000 PSF. EACH STRUCTURE SHALL BEAR EITHER ENTIRELY ON SOIL OR ENTIRELY ON ROCK. MIXED BEARING CONDITIONS ARE NOT PERMITTED. BEARING TYPE (SOIL OR ROCK) FOR EACH STRUCTURE IS INDICATED ON DRAWINGS.
3. SOIL-SUPPORTED FOUNDATIONS (2,000 PSF): REMOVE TOPSOIL AND COMPACT SOILS BELOW FOUNDATIONS PER THE GEOTECHNICAL REPORT. NO FOOTINGS SHALL BEAR ON ROCK. IF TOP OF ROCK IS ENCOUNTERED WITHIN 2'-0" FROM THE BOTTOM OF THE FOOTING, UNDERCUT TO A MINIMUM OF 2'-0" BELOW THE BOTTOM OF THE FOOTING AND REPLACE WITH COMPACTED ENGINEERED FILL IN CONFORMANCE WITH GEOTECHNICAL REPORT. IF SOFT SOILS ARE ENCOUNTERED, THE FOOTING SUBGRADE SHOULD BE UNDERCUT TO A FIRM STRATUM AND REPLACED WITH ENGINEERED FILL.
4. ROCK-SUPPORTED FOUNDATIONS (10,000 PSF): FOUNDATIONS SHALL BE SUPPORTED ON LIMESTONE BEDROCK. DEMOLISH ROCK THE MINIMUM EXTENT NECESSARY TO CREATE A LEVEL SURFACE.
5. CONTRACTOR SHALL EMPLOY A REGISTERED GEOTECHNICAL ENGINEER LICENSED IN THE PROJECT STATE TO PERFORM THE FOLLOWING:
  - A. VERIFY AND MONITOR SITE PREPARATION ACTIVITIES WITHIN THE CONSTRUCTION LIMITS.
  - B. VERIFY THAT SITE CONDITIONS ARE CONSISTENT WITH THE GEOTECHNICAL REPORT.
  - C. VERIFY AND MONITOR THAT FILL PLACEMENT AND COMPACTION, UNDERCUTTING, PROOFROLLING, ETC., IS IN CONFORMANCE WITH THE GEOTECHNICAL REPORT, AND THAT THE DESIGN CAPACITIES ARE OBTAINED.
6. THE DESIGN ADEQUACY AND SAFETY OF TEMPORARY RETAINING STRUCTURES, SHORING OF TRENCHES, ETC., REQUIRED TO CONSTRUCT THE FOUNDATION SYSTEM IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. THE ZONE IMMEDIATELY BEHIND RETAINING WALLS SHALL CONSIST OF A WASHED OPEN-GRADED NO. 57 STONE, PER ASTM D448, EXTENDING FROM THE OUTER CORNER OF HEEL UPWARD AT 14:1V, UNO. THE STONE SHALL BE DENSIFIED WITH A VIBRATORY SLED AND PLACED IN LIFTS NOT EXCEEDING 12 INCHES. WALL BACKFILL SHALL BE CAPPED WITH ONE FOOT OF COMPACTED CLAY. FILTER FABRIC SHALL BE PLACED BETWEEN THE STONE BACKFILL AND THE EXISTING GROUND SURFACE / SOIL CAP.

**CONCRETE**

1. CONCRETE WORK SHALL BE IN CONFORMANCE WITH THE 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE,' (ACI 318-05).
2. CONCRETE MEMBERS SHOWN ON STRUCTURAL DRAWINGS (S1.00 THRU S1.04) SHALL HAVE THE FOLLOWING PROPERTIES:

CONCRETE USE	CONC. WEIGHT (PCF)	28 DAY STRENGTH (PSI)	MAXIMUM W/C RATIO	CEMENT TYPE	MAXIMUM PERCENT FLY ASH	MAX. AGG. SIZE	AIR CONTENT
WALLS, SLABS, FOUNDATIONS	NUC 140-150	4,000	0.45	I OR II	25%	1"	6% ± 1½%

3. MAXIMUM CONCRETE SLUMP:
  - A. MAXIMUM SLUMP FOR CONCRETE WITHOUT A HIGH-RANGE WATER-REDUCING ADMIXTURE SHALL BE 4'.
  - B. THE MAXIMUM SLUMP FOR CONCRETE CONTAINING A HIGH-RANGE WATER-REDUCING ADMIXTURE SHALL BE 8' AT POINT OF DEPOSIT.
4. SIZE OF AGGREGATE AND GRADATION SHALL CONFORM TO ASTM C33 FOR NORMAL WEIGHT CONCRETE.
5. THE COMBINED TOTAL MASS PERCENT OF DELETERIOUS SUBSTANCES, INCLUDING, BUT NOT LIMITED TO, COAL AND LIGNITE, FOR BOTH COARSE AND FINE AGGREGATES SHALL BE LIMITED TO 0.5% AS DETERMINED BY ASTM C123.
6. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED DURING PLACEMENT.
7. CHAMFER EXPOSED CORNERS OF BEAMS, COLUMNS AND WALLS 3/4 INCH, UNO.
8. NO CONDUITS OR PIPES SHALL BE EMBEDDED IN CONCRETE MEMBERS.
9. ALL REINFORCING STEEL AND ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE LOCATED AND SECURELY TIED INTO PLACE PRIOR TO PLACING CONCRETE. "WET-SETTING" OF REINFORCING STEEL OR EMBEDDED ITEMS IN FLUID CONCRETE IS NOT PERMITTED AND SHALL BE CAUSE FOR REJECTION OF INSTALLED WORK.

**REINFORCING STEEL**

1. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 (GR. 60).
2. REINFORCING STEEL SHALL BE SPLICED ONLY WHERE SHOWN OR NOTED. THE STRUCTURAL ENGINEER SHALL APPROVE SPLICES AT OTHER LOCATIONS.
3. ALL REINFORCING STEEL SHALL BE SPLICED WITH CLASS 'B' TENSION LAP SPLICES IN CONFORMANCE WITH ACI 318-05.
4. PROVIDE THE FOLLOWING CLEAR CONCRETE COVER FOR PLACEMENT OF REINFORCING STEEL, UNLESS OTHERWISE DETAILED:
 

FOOTINGS AND GRADE BEAMS:	2' AT FORMED EDGES 3' CAST AGAINST GROUND
WALLS AND PEDESTALS:	2' AT FORMED EDGES
5. PROVIDE CORNER BARS TO MATCH LONGITUDINAL REINFORCING AT ALL CORNERS AND INTERSECTIONS OF ALL FOOTINGS AND WALLS, UNLESS OTHERWISE DETAILED.
6. PROVIDE DOWELS IN FOOTINGS THE SAME SIZE AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING.
7. ALL OPENINGS IN CONCRETE WALLS AND SLABS SHALL BE REINFORCED WITH (2)-#6 BARS LOCATED IN EACH FACE, ON ALL SIDES, AND EXTENDED 3'-0" MINIMUM BEYOND THE EDGE OF THE OPENING, UNO.

**PRECAST HOLLOW-CORE PLANKS**

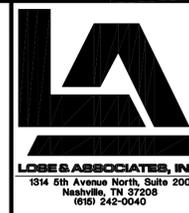
1. PRECAST DESIGN, MANUFACTURE, AND ERECTION SHALL CONFORM TO PCI MNL 116.
2. A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE SHALL DESIGN ALL PRECAST MEMBERS AND CONNECTIONS AND SHALL SIGN AND SEAL ALL PRECAST SHOP DRAWINGS AND DESIGN CALCULATIONS.
3. HOLLOW-CORE PLANKS SHALL BE PRESTRESSED AND FABRICATED USING NORMAL WEIGHT STRUCTURAL CONCRETE WITH A MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH (f'c) OF 5,000 PSI WITH 6% ± 1½% AIR CONTENT.
4. HOLLOW-CORE PLANKS SHALL BE DESIGNED AS NON-COMPOSITE ELEMENTS AND SHALL NOT TAKE INTO ACCOUNT ANY COMPOSITE ACTION WITH THE TOPPING AND SHALL BE CAPABLE OF SUPPORTING THE FOLLOWING LOADS:
  - A. DEAD LOAD - SELF WEIGHT AND TOPPING SLAB
  - B. LIVE LOAD - 90 PSF UNIFORM LOAD (NON-REDUCIBLE) OR A 5,000 LB CONCENTRATED VEHICULAR LOAD ACTING ON ONE 4 FT. WIDE PLANK.
5. THE CAMBER AND DEFLECTION LIMITATIONS SHALL BE AS FOLLOWS:
  - A. CAMBER AFTER NON-COMPOSITE TOPPING = 1 INCH OR LESS.
  - B. DIFFERENTIAL CAMBER BETWEEN MEMBERS AT ERECTION = 1/2 INCH OR LESS.
  - C. MAXIMUM LIVE LOAD DEFLECTION = SPAN / 600.
6. THE PRECAST MANUFACTURER IS SOLELY RESPONSIBLE FOR COORDINATION OF ALL EMBEDDED ITEMS.
7. ANY LATERAL BRACING OR ADDITIONAL SUPPORT REQUIRED BY THE DESIGN OF THE PRECAST SYSTEM IS THE SOLE RESPONSIBILITY OF THE PRECAST MANUFACTURER.

**CAST-IN-PLACE TOPPING SLABS ON PRECAST HOLLOW-CORE PLANKS**

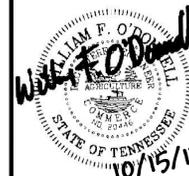
1. REINFORCE CAST-IN-PLACE TOPPING SLABS WITH PROPEX NOVOMESH 950 OR EQUAL FIBER BLEND OF MICRO AND MACRO SYNTHETIC FILAMENTS. DOSAGE OF FIBERS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. FINAL FINISH OF TOPPING SLAB SURFACES SHALL RECEIVE A MEDIUM BROOM FINISH, BRUSHED PERPENDICULAR TO TRAFFIC FLOW.
3. TOOLED JOINTS FOR CRACK CONTROL SHALL BE PROVIDED AT ALL JOINTS BETWEEN THE PLANKS AND AT 4'-0" o.c. MAX. IN EACH DIRECTION AND SHALL BE FILLED WITH SIKAFLEX 2C SL.
4. ALL CRACKS THAT APPEAR IN TOPPING SLAB SHALL BE ROUTED AND SEALED.

**STRUCTURAL STEEL**

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC 'MANUAL OF STEEL CONSTRUCTION', 13TH EDITION.
2. STEEL PLATES, ANGLES, CHANNELS AND OTHER MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36, UNO.
3. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE B.
4. HEADED SHEAR CONNECTORS SHALL CONFORM TO ASTM A108, GRADES 1015 - 1020.
5. BOLTED CONNECTIONS SHALL BE MADE USING 3/4" DIAMETER BOLTS CONFORMING TO ASTM F1552, UNO. WELDED CONNECTIONS SHALL BE MADE USING E-70 SERIES ELECTRODES AND CONFORM TO AWS SPECIFICATIONS.
6. ANCHOR RODS SHALL BE HEADED AND SHALL CONFORM TO ASTM F1554, GRADE 105, UNO.
7. NON-SHRINK GROUT SHALL BE SHRINKAGE-RESISTANT AND CONFORM TO ASTM C1107 AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
8. ALL STEEL ELEMENTS AND CONNECTIONS EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED UNO.



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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 PREPARED FOR  
**MURFREESBORO TENNESSEE**

REVISIONS

NO.	DATE	BY	COMMENTS

SHEET TITLE

**GENERAL NOTES**

**SKYHOOK**  
 STRUCTURAL ENGINEERING, P. C.  
 229 Ward Circle, Suite B23  
 Brentwood, Tennessee 37027  
 Phone: (615) 777-0097 Fax: (615) 777-0098  
 SSE PROJECT NO. 10693

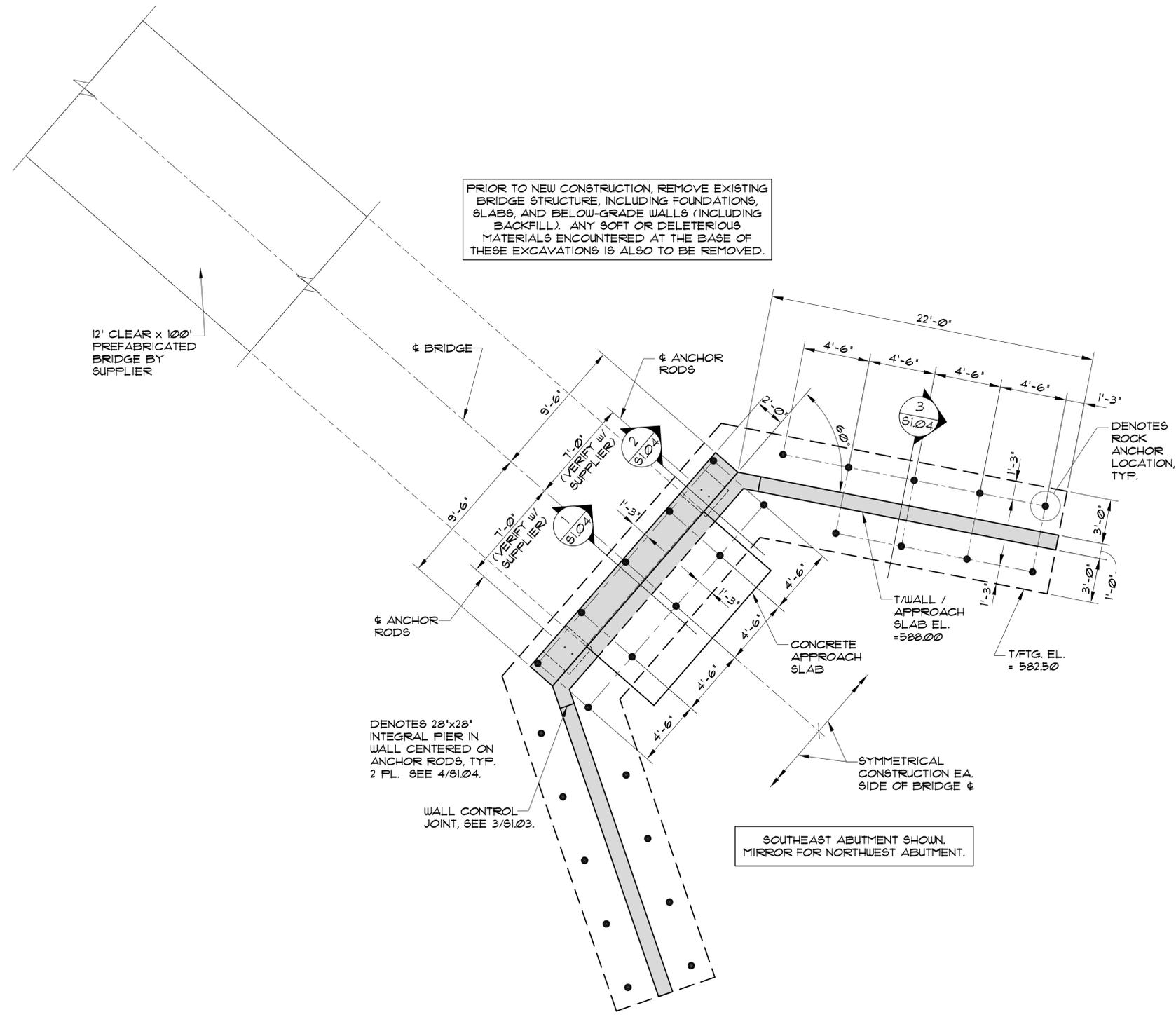
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**STONES RIVER GREENWAY EXTENSION PHASES 4A**  
 MURFREESBORO, TENNESSEE  
 PREPARED FOR



PRIOR TO NEW CONSTRUCTION, REMOVE EXISTING BRIDGE STRUCTURE, INCLUDING FOUNDATIONS, SLABS, AND BELOW-GRADE WALLS (INCLUDING BACKFILL). ANY SOFT OR DELETERIOUS MATERIALS ENCOUNTERED AT THE BASE OF THESE EXCAVATIONS IS ALSO TO BE REMOVED.

12' CLEAR x 100' PREFABRICATED BRIDGE BY SUPPLIER

DENOTES 28"x28" INTEGRAL PIER IN WALL CENTERED ON ANCHOR RODS, TYP. 2 PL. SEE 4/31.04.

WALL CONTROL JOINT, SEE 3/31.03.

SOUTHEAST ABUTMENT SHOWN. MIRROR FOR NORTHWEST ABUTMENT.

**1 PREFABRICATED BRIDGE NEAR STA. 21+00**

- NOTES:
- COORDINATE EXACT WALL LOCATIONS, GRADING, AND ADDITIONAL REQUIREMENTS WITH CIVIL DRAWINGS.
  - CONTRACTOR TO VERIFY TOP OF BRIDGE ELEVATION WITH CIVIL.
  - SEE PLAN FOR TOP OF WALL AND TOP OF FOOTING ELEVATIONS.
  - SEE 1/31.03 FOR TYP. CONCRETE FOOTING REINFORCING DETAILS.
  - SEE 2/31.03 FOR TYP. CONCRETE WALL REINFORCING DETAILS.
  - SEE 3/31.03 FOR TYP. CONCRETE WALL JOINT DETAILS.

BRIDGE FOUNDATIONS AND ADJACENT RETAINING WALLS TO BE ROCK BEARING.

REVISIONS			
NO.	DATE	BY	COMMENTS

SHEET TITLE  
**PREFABRICATED BRIDGE PLAN**



