

CONTRACT FOR SERVICES

THIS AGREEMENT is made this _____ day of May , 2019, between the City of Dalton, Georgia, a municipal corporation("City"), with a principal place of business at 535 Elm Street (PO Box 1205), Dalton, Georgia, 30722 and Northwest Georgia Paving, Inc. ("Contractor"), with a principal place of business at 501 West May Street (P.O. Box 578), Calhoun, GA 30701 .

1. **Term.** This agreement will become effective on the date stated above and will continue in effect until the services provided for under this agreement have been performed, unless otherwise terminated as provided in this Agreement.
2. **Services.**
 - a. Contractor agrees to perform the services specified in the **Botany Woods Drive Slope Reconstruction plans and specifications and Addendums 1&2** attached to this Agreement as **Exhibit A** and incorporated herein.
 - b. Contractor will determine the method, details, and means of performing the services described in Paragraph 2(a). Unless otherwise outlined by the specifications.
 - c. Contractor may, at Contractor's own expense and responsibility, employ any assistants that contractor deems necessary to perform the services required of Contractor by this Agreement. Contractor's relationship to city shall be that of an independent contractor. Neither Contractor nor its employees shall have any right to participate in any City employee-benefit plan or program.
3. **Consideration.**
 - a. In consideration for the services to be performed by Contractor, City agrees to pay to Contractor under unit pricing as provided in **Exhibit B (Bid Form from Northwest Georgia Paving)**, attached hereto and incorporated herein.
4. **Obligations of Contractor.**
 - a. Contractor agrees to devote the time set forth in the **Botany Woods Drive Slope Reconstruction plans and specification** to the performance of the services described in this agreement. Contractor may represent, perform services for, and be employed by any additional clients, persons, or companies as Contractor, in Contractor's sole discretion, sees fit.
 - b. Contractor agrees that all services described in this Agreement must be fully completed no later than **July 31, 2019**. Contractor further agrees to pay as liquidated damages the sum of **\$200** for each consecutive calendar day thereafter for unfinished work until final completion is achieved. Additionally, the contractor will receive **forty-five (45) calendar days to achieve substantial completion (85-90%)** of the project from issuance of Notice to Proceed. Liquidated damages, under the same terms outlined above, will also be enforced on the substantial completion requirement.
 - c. Contractor will supply all manpower to perform these services.
 - d. Contractor agrees to provide workers' compensation insurance for Contractor's employees and agents and agrees to hold harmless and indemnify City for any and all claims arising out of any injury, disability, or death of any of Contractor's employees or agents.
 - e. Contractor agrees to maintain a policy of insurance in the minimum amount of **\$1,000,000** to cover any negligent acts committed by Contractor or Contractor's employees or agents during the performance of any duties under this agreement. Contractor further agrees to indemnify and hold City harmless from any and all claims arising from any such negligent act or omission.
 - (a) Contractor shall maintain said insurance coverage through the completion of the Project and for a period of two years following the Final Completion of the Project.
 - (b) Said insurance coverage shall include an endorsement providing that City shall receive notice of any cancellation of coverage no less than thirty (30) days prior to its effective date.
 - (c) Said coverage shall be written on such policy forms as are acceptable to City.
 - (d) Said coverage shall be underwritten by such insurance companies as are acceptable to City.

- (e) In the event that Contractor subcontracts any portion of the Project with a third party, the Contractor shall require said third party to comply with the insurance provisions of Section 4e.
- f. Neither this Agreement nor any duties or obligations under this Agreement may be assigned by Contractor without the prior written consent of City.

5. **Obligations of City.**

- a. City agrees to give due consideration to all reasonable requests of Contractor necessary to the performance of Contractor's duties under this Agreement.
- b. Neither this Agreement nor any duties or obligations under this Agreement may be assigned by City without the prior written consent of Contractor.

6. **Termination.**

- a. Unless otherwise terminated as provided in this Agreement, this Agreement shall continue in force until the services provided for have been fully and completely performed and shall then terminate.
- b. This Agreement shall terminate automatically on the occurrence of any of the following events.
 - i. Bankruptcy or insolvency of either party.
 - ii. Sale of the business of Contractor.
 - iii. Death or dissolution of Contractor.
 - iv. Assignment of this Agreement by either party without the consent of the other party.
- c. If Contractor defaults in the performance of this Agreement or materially breaches any of its provisions, City, at City's option, may terminate this Agreement by giving two (2) days written notification to Contractor. For the purposes of this section, material breach of this Agreement shall be determined in the reasonable discretion of the City.
- d. Prior to execution of the contract, Contractor shall provide the City with a **Performance and Payment Bond for 100% of the agreed contract price, \$587,291.75.**
- (a) Said Bonds shall include an endorsement providing that City shall receive notice of any cancellation of coverage no less than thirty (30) days prior to its effective date.
- (b) Said Bonds shall be written on such policy forms as are acceptable to City.
- (c) Said Bonds shall be underwritten by such insurance/bond companies as are acceptable to City.
- e. If City fails to pay Contractor all or any part of the compensation set forth in this Agreement on the date due, Contractor, at Contractor's option, may terminate this agreement if the failure is not remedied by City within ten (10) days after notice from Contractor that payment is overdue.

7. **Miscellaneous**

- a. Any notices to be given under this Agreement by either party to the other may be effected either by personal delivery in writing or by registered or certified mail, with postage prepaid and return receipt requested. Mailed notices shall be addressed to the parties at the addresses appearing in the introductory paragraph of this Agreement. However, each party may change the address for receipt of notice by giving written notice in accordance with this paragraph. Notices delivered personally will be deemed communicated at the time of delivery. Mailed notices will be deemed communicated two (2) days after mailing.
- b. This Agreement supersedes any and all agreements, both oral and written, between the parties with respect to the rendering of services by Contractor for City and contains all of the covenants and agreements between the parties with respect to the rendering of these services in any manner whatsoever. Each party acknowledges that no representations, inducements, promises, or agreements, written or oral, have been made by either party, or by anyone acting on behalf of either party, that are not embodied in this Agreement. Any modification of this Agreement will be effective only if it is in writing signed by the party to be charged.
- c. If any provision of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions will nevertheless continue in full force without.
- d. This Agreement will be governed by and construed in accordance with the laws of the State of Georgia.
- e. The parties agree that in the event that any suit or proceeding is brought in connection with this Agreement, such suit or proceeding shall be brought in the Superior Court of Whitfield County, Georgia and the parties shall submit to the exclusive jurisdiction of such Court and hereby waive any and all jurisdiction, venue, and inconvenient forum objections to such Court.

f. All work constructed under this Contract shall be fully guaranteed by the Contractor for a period of one (1) year from the date of final inspection and acceptance by the City.

Executed at Dalton, Georgia on the date first written above.

CITY:
The City of Dalton, Georgia

CONTRACTOR: Northwest Georgia Paving,
Inc.

By: _____.

By: _____.

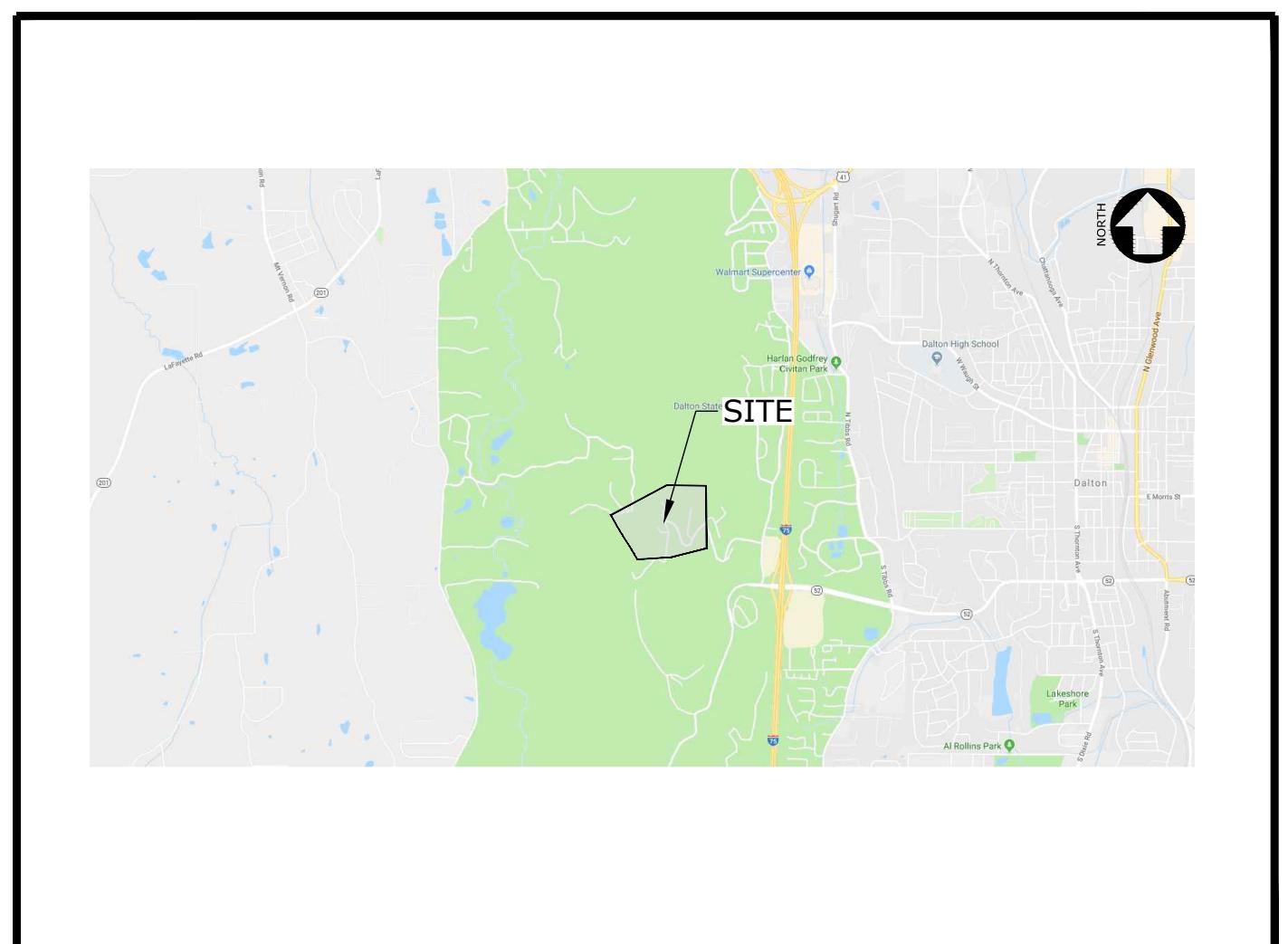
Print Name: Dennis Mock, Mayor _____.

Print Name: Russell Smith - President _____.

Exhibit A -
Construction Plans For:
Botany Woods Dr Slope
Reconstruction
&
Addendums 1&2

CONSTRUCTION PLANS FOR: BOTANY WOODS DR SLOPE RECONSTRUCTION

PROJECT LOCATED AT:
BOTANY WOODS DR DALTON, GEORGIA
PREPARED FOR (OWNER/DEVELOPER):
CITY OF DALTON
535 ELM STREET DALTON, GA,
30722
PHONE: (706) 278-7077
AREA DISTURBED: 0.91AC



ISSUED FOR PERMITTING
PROJECT OWNED/DEVELOPED BY:
CITY OF DALTON
535 ELM STREET DALTON, GA 30722
APARKER@CITYOFDALTON-GA.GOV
24 HOUR CONTACT INFORMATION
P. ANDREW PARKER, P.E. (706) 278-7077

SEI
SOUTHEASTERN ENGINEERING, INC.
2670 Sandy Plains Road, Marietta, Georgia 30066
tel: 770-321-9316 fax: 770-321-3935
www.sengengineering.com

931-19-082

No	REVISION DESCRIPTION	DATE
1	-	-
2	-	-
3	-	-
4	-	-

COVER	
PROJECT LOCATED AT: BOTANY WOODS DR DALTON, GA CITY OF DALTON	© COPYRIGHT 2019 SOUTHEASTERN ENGINEERING, INC. THIS DRAWING AND ITS REPRODUCTION ARE THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED, PUBLISHED OR USED IN ANY WAY WITHOUT THE WRITTEN PERMISSION OF THIS ENGINEER

ISSUED FOR: REVIEW
Project No.: 931-19-082
Designed By: KWC
Issue Date: 4/19/18
C1
811 Know what's below. Call before you dig.

Sheet List Table	
Sheet Number	Sheet Title
C1	COVER
C2	GENERAL NOTES & LEGEND
C3	SUMMARY OF QUANTITIES
C4	EXISTING CONDITIONS PLAN
C5	GRADING & DRAINAGE PLAN
C6	STORM PROFILES
C7	CONSTRUCTION DETAILS
C7.1	CONSTRUCTION DETAILS
C8	EROSION CONTROL PLAN
C9	EROSION CONTROL DETAILS
C9.1	EROSION CONTROL DETAILS
C9.2	EROSION CONTROL DETAILS

LINETYPE LEGEND	
PROPOSED	EXISTING
LAND LOT LINE	LAND LOT LINE
PROJECT PROPERTY LINE	IRON PIN SET
ADJOINING PROPERTY LINE	IRON PIN FOUND
EASEMENT	OPEN TOP PIPE
SANITARY EASEMENT	CRIMP TOP PIPE
UNDISTURBED BUFFER	REINFORCING BAR
SETBACK	CENTERLINE
BOUNDARY OF FIELD SHOT DATA	DOUBLE WING CATCH BASIN
WATER ELEVATION (100 YEAR POND ELEVATION / HYDRAULIC GRADE LINE)	DRAINAGE FLOW
FENCE	ELBOW (TYPE SPECIFIED) WITH THRUST BLOCK
CHAINLINK FENCE	LAND LOT
DECORATIVE FENCE (WOOD / VINYL)	LINE
GUARDRAIL	ARC
XXXXXXXXXXXXXXXXXXXX	RADIUS
LINEAR FEATURE TO BE REMOVED	CHORD
SOIL DELINEATION	CURVE
CREEK CENTERLINE	CONCRETE
OVERHEAD TELEPHONE	CONCRETE MONUMENT FOUND
OHT	POINT OF BEGINNING
G	POINT OF COMMENCEMENT
UGP	POINT OF INTERSECTION
~	SETBACK LINE
SS	BUILDING SETBACK LINE
FM	DRAINAGE EASEMENT
W	SANITARY SEWER EASEMENT
COMM	ACCESS EASEMENT
COMMUNICATIONS UTILITY LINE	FORCE MAIN
SETBACK LINE	WATER MAIN
TREELINE	RIGHT OF WAY
RIGHT OF WAY	FLOOD LINE
FLOOD LINE	ROAD CENTERLINE
LIMITS OF CONSTRUCTION	LIMITS OF CONSTRUCTION
WETLAND	WETLAND
XX	NS
XX	S
TPF	DIVERSION PATH
CRZ	TREE PROTECTION FENCING
	CRITICAL ROOT ZONE

ABBREVIATION LEGEND

LLL	LAND LOT LINE
IPS	IRON PIN SET
IPF	IRON PIN FOUND
OTP	OPEN TOP PIPE
CTP	CRIMP TOP PIPE
RB	REINFORCING BAR
CL	CENTERLINE
R/W	RIGHT OF WAY
LL	LAND LOT
L	LINE
A	ARC
R	RADIUS
CH	CHORD
C	CURVE
CONC	CONCRETE
CMF	CONCRETE MONUMENT FOUND
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
PI	POINT OF INTERSECTION
SBL	SETBACK LINE
BSL	BUILDING SETBACK LINE
DE	DRAINAGE EASEMENT
SSE	SANITARY SEWER EASEMENT
AE	ACCESS EASEMENT
DI	DROP INLET
PI	PEDESTAL INLET
SWCB	SINGLE WING CATCH BASIN
DWCB	DOUBLE WING CATCH BASIN
HW	HEADWALL

SYMBOL LEGEND

PROPOSED	EXISTING
●	BOLLARD
£	CENTERLINE
●	CONCRETE MONUMENT
●	CURB INLET
●	DROP INLET
...	DOUBLE WING CATCH BASIN
...	DRAINAGE FLOW
...	ELBOW (TYPE SPECIFIED) WITH THRUST BLOCK
LL	LAND LOT
L	LINE
A	ARC
R	RADIUS
CH	CHORD
C	CURVE
CONC	CONCRETE
CMF	CONCRETE MONUMENT FOUND
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
PI	POINT OF INTERSECTION
SBL	SETBACK LINE
BSL	BUILDING SETBACK LINE
DE	DRAINAGE EASEMENT
SSE	SANITARY SEWER EASEMENT
AE	ACCESS EASEMENT
DI	DROP INLET
PI	PEDESTAL INLET
SWCB	SINGLE WING CATCH BASIN
DWCB	DOUBLE WING CATCH BASIN
HW	HEADWALL
...	HEADWALL
...	IRRIGATION VALVE
...	IRON PIN TO BE SET
...	IRON PIN FOUND
...	LIGHT POLE
...	MAILBOX
...	MONITORING WELL
...	PEDESTRIAN SIGNAL
...	PEDESTAL INLET
...	PRESSURE REDUCER VALVE
...	PLUG / CAP
...	POWER STUB
...	PVC STUB
...	REDUCER
...	SANITARY SEWER CLEANOUT
...	SIGN
...	SINGLE WING CATCH BASIN
...	SOIL BORING
...	SQUARE BOLLARD
...	TEE WITH THRUST BLOCK
...	TELEPHONE BOX
...	TELEPHONE MANHOLE
...	TELEPHONE PEDESTAL
...	TEMPORARY BENCH MARK
...	TRAFFIC BOX
...	TREE TO BE REMOVED
...	UTILITY POLE
...	UTILITY MANHOLE (UTILITY SPECIFIED)
...	UTILITY METER BOX (UTILITY SPECIFIED)
...	UTILITY VALVE (UTILITY SPECIFIED)
...	WATER METER
...	WATER SEEP
...	WATER SPIGOT
...	WATER VALVE
...	WETLAND FLAG

GRADING NOTES:

- ELEVATIONS ARE BASED ON MEAN SEA LEVEL.
- EXISTING CONDITIONS FROM FIELD RUN TOPOGRAPHY PREPARED BY LOWERY & ASSOCIATES, APRIL 2019.
- CONTOUR INTERVALS ARE 2.0 FEET.
- ALL TREE SAVE AREAS AND BUFFER ARE TO BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- CLEARING AND GRUBBING: ON ALL AREAS WHERE GRADING, EXCAVATING AND FILL ARE TO BE DONE, ALL TIMBER, BRUSH, STUMPS, ROOTS, RUBBISH AND ORGANIC MATERIALS SHALL BE REMOVED. STUMP HOLES SHALL BE FILLED WITH COMPACTED CLEAN SOIL. A MINIMUM OF SIX INCHES MUST BE CUT BELOW EXISTING GRADE FOR ENTIRE AREA RECEIVING FILL. STORM DETENTION MEASURES MUST BE ACCOMPLISHED CONCURRENT WITH THIS PHASE. REFER TO THE CURRENT EDITION OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL.
- ALL EARTHWORK OPERATION SHALL COMPLY WITH REQUIREMENTS OF OSHA CONSTRUCTION STANDARDS, PART 1926, SUBPART P, EXCAVATIONS, TRENCHING, AND SHORING, AND SUBPART O, MOTOR VEHICLES, MECHANIZED EQUIPMENT, AND MARINE OPERATIONS, AND SHALL BE CONDUCTED IN A MANNER ACCEPTABLE TO THE ENGINEER.
- FILL MATERIALS SHALL CONSIST OF CLEAN SOIL, FREE OF ORGANIC OR DELETERIOUS MATERIALS, ROCKS, OR BROKEN PIECES OF CONCRETE LARGER THAN THREE INCHES IN SIZE, OR OF ANY OTHER FOREIGN OBJECTS THAT COULD IMPEDE THE COMPACTION PROCESS.
- FILL MATERIALS SHALL BE SPREAD EVENLY IN HORIZONTAL LAYERS OF NOT MORE THAN 8 INCHES IN LOOSE LIFTS OVER THE FULL WIDTH OF FILL AND COMPACTED TO AT LEAST 95% MAXIMUM DRY DENSITY BY STANDARD PROCTOR COMPACTION TEST ASTM D698.
- MAXIMUM CUT OR FILL SLOPES 24:1.
- GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS INTO STORM INLETS.
- SEE GEOTECHNICAL ENGINEER FOR RECOMMENDATIONS CONCERNING PROPER PLACEMENT AND COMPACTION OF STRUCTURAL FILL.
- ALL SPOT ELEVATIONS ARE FINISHED GRADE ELEVATIONS UNLESS OTHERWISE NOTED.
- THE INSTALLATION OF ALL EROSION CONTROL MEASURES AND DETENTION FACILITIES SHOULD BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

UTILITY NOTES:

- CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL BE SPECIFICALLY RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES THAT MIGHT HAVE EXISTING UTILITIES ON SITE TO DETERMINE IF ANY EXIST AND HOW TO HANDLE. ENGINEER CANNOT BE RESPONSIBLE FOR EXISTENCE OR LOCATION OF UNDERGROUND UTILITIES.
- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR COORDINATING WITH THEM REGARDING UTILITY LOCATIONS, CONSTRUCTION AND SCHEDULES.
- ALL CONNECTIONS TO EXISTING UTILITIES AND ALL UTILITY INSTALLATIONS SHALL BE IN COMPLIANCE WITH REQUIREMENTS OF APPROPRIATE JURISDICTIONAL AGENCIES.
- FOR GRADING AND DRAINAGE INFORMATION, SEE GRADING AND DRAINAGE PLAN.
- EXISTING SERVICES SHOWN WERE OBTAINED FROM AS BUILT BY OTHERS.
- AT COMPLETION OF SEWER AND WATER CONSTRUCTION, ALL MANHOLES, VALVE BOXES, METERS AND APPURTENANCES SHALL BE SET FOR PROPER FINISH GRADE AND SHALL BE NOTICEABLY STAKED AND FLAGGED. SITE UTILITY SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE ABOVE ITEMS UNTIL SYSTEM IS ACCEPTED BY OWNER.
- RIGID PIPE BEDDING SHALL BE PER ASTM C-12, FLEXIBLE PIPE BEDDING PER ASTM D-2321.
- LARGE STONES AND CONTAINING NOT MORE THAN 10% BY WEIGHT OF LOAM OR CLAY.
- CONTRACTOR SHALL COMPLY WITH REQUIREMENTS SET FORTH IN CITY OF DALTON DEVELOPMENT REGULATIONS FOR ALL UTILITY INSTALLATIONS.



PROJECT OWNED/DEVELOPED BY:	REVISION DESCRIPTION	DATE
CITY OF DALTON	1 -	-
	2 -	-
	3 -	-
	4 -	-

PROJECT LOCATED AT:	CONTACT INFORMATION	24 HOUR CONTACT
535 Elm Street Dalton, GA 30722	APARKER@CITYOFDALTON-GA.GOV	P. ANDREW PARKER, P.E. (706) 278-7077

GENERAL NOTES & LEGEND
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PROJECT LOCATED AT:
BOTANY WOODS DR SLOPE RECONSTRUCTION
CITY OF DALTON

ISSUED FOR: REVIEW

Project No.: 931-19-082
Designed By: KWC
Issue Date: 4/19/18

C2

811

Know what's below. Call before you dig.

PROJECT #931-19-082
BOTANY WOODS DRIVE SLOPE FAILURES - ENGINEERS CONSTRUCTION COST ESTIMATE

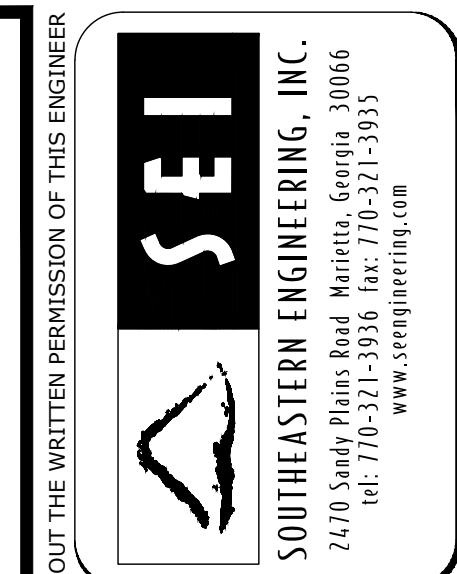
ITEM NO.	ITEM DESCRIPRION	UNIT	QUANTITY
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GRADING & ROADWAY ITEMS			
150-1000	TRAFFIC CONTROL - 931-19-082	LS	1
205-0100	CONSTRUCTION ALLOWANCE - 931-19-082 Construction Allowance Item Removed	LS	1
210-0100	GRADING COMPLETE - 931-19-082 (Approximately 9340 CY of Fill Material)	LS	1
310-5080	GR AGGR BASE CRS, 8 INCH, INCL MATL	SY	650
402-3103	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	25
402-3111	RECYCLED ASPH CONC 19 MM SUPERPAVE, TYPE II, GP 1 or GP 2, INCL BITUM MATL & H LIME	TN	35
413-1000	BITUM TACK COAT	GL	20
441-6216	CONC CURB & GUTTER, 8 IN X 24 IN, TP 2	LF	200
643-3000	ORANGE SAFETY FENCE	LF	250

DRAINAGE ITEMS			
207-0203	FOUND BKFILL MATL, TYPE 2 BACKFILL MATERIAL (WASHED 57)	CY	148
500-3800	CLASS A CONCRETE, INCL REINF STEEL	CY	2
550-1240	STORM DRAIN PIPE, 24 IN, H 1-10 - CLASS III RCP	LF	265
550-1243	STORM DRAIN PIPE, 24 IN, H 20-25 - CLASS V RCP	LF	85
603-2180	STN DUMPED RIP RAP, TP 3, 12 IN	SY	100
603-2182	STN DUMPED RIP RAP, TP 3, 24 IN	SY	50
603-7000	PLASTIC FILTER FABRIC	SY	616
611-3004	RECONSTRUCT CATCH BASIN	EA	1
668-2105	DROP INLET, GP1, SPCL DES	EA	1
668-2115	DROP INLET, GP1, ADDL DEPTH, SPCL DES	LF	1
668-4300	STORM SEW MANHOLE, TP 1	EA	5
668-4311	STORM SEW MANHOLE, TP 1, ADDL DEPTH, CL 1	LF	50

TEMPORARY EROSION CONTROL ITEMS			
163-0232	TEMPORARY GRASSING	AC	0.91
163-0240	MULCH	TN	5
163-0300	CONSTRUCTION EXIT	EA	1
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	10
165-0010	MAINTENANCE OF TEMPORARY SILT FENCE - TYPE A	LF	272
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE - TYPE C	LF	789
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	EA	10
171-0010	TEMPORARY SILT FENCE, TYPE A	LF	272
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	789

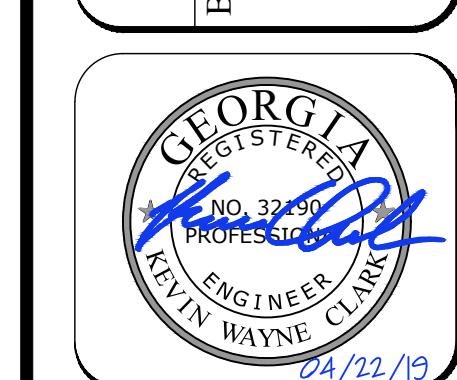
PERMANENT EROSION CONTROL ITEMS			
700-6910	PERMANENT GRASSING	AC	0.76
700-7000	AGRICULTURAL LIME	TN	1
700-8000	FERTILIZER MIXED GRADE	TN	1
700-8100	FERTILIZER NITROGEN CONTENT	LB	10
700-9300	SOD	SY	705
700-9000	PERMANENT SOIL REINFORCING MAT	SY	385



No	REVISION DESCRIPTION	DATE
1	-	-
2	-	-
3	-	-
4	-	-

CITY OF DALTON	
535 ELM STREET DALTON, GA 30722	APARKER@CITYOFDALTON-GA-GOV
24 HOUR CONTACT INFORMATION	P. ANDREW PARKER, P.E. (706) 278-7077

SUMMARY OF QUANTITIES	
BOTANY WOODS DR SLOPE RECONSTRUCTION	PROJECT LOCATED AT: BOTANY WOODS DR DALTON, GA, 30720 CITY OF DALTON



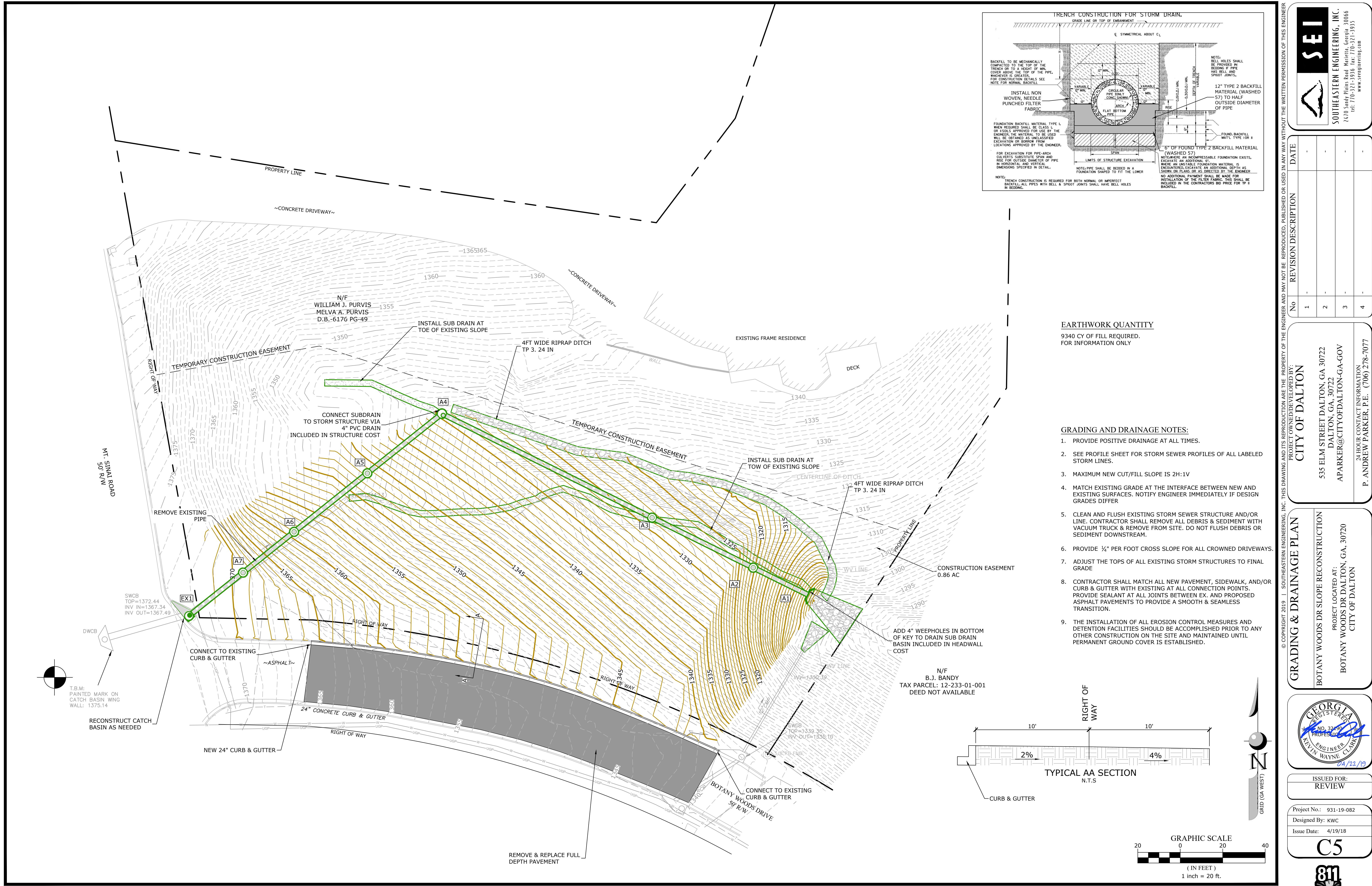
ISSUED FOR:
REVIEW

Project No.: 931-19-082
Designed By: KWC
Issue Date: 4/19/18

C3

811
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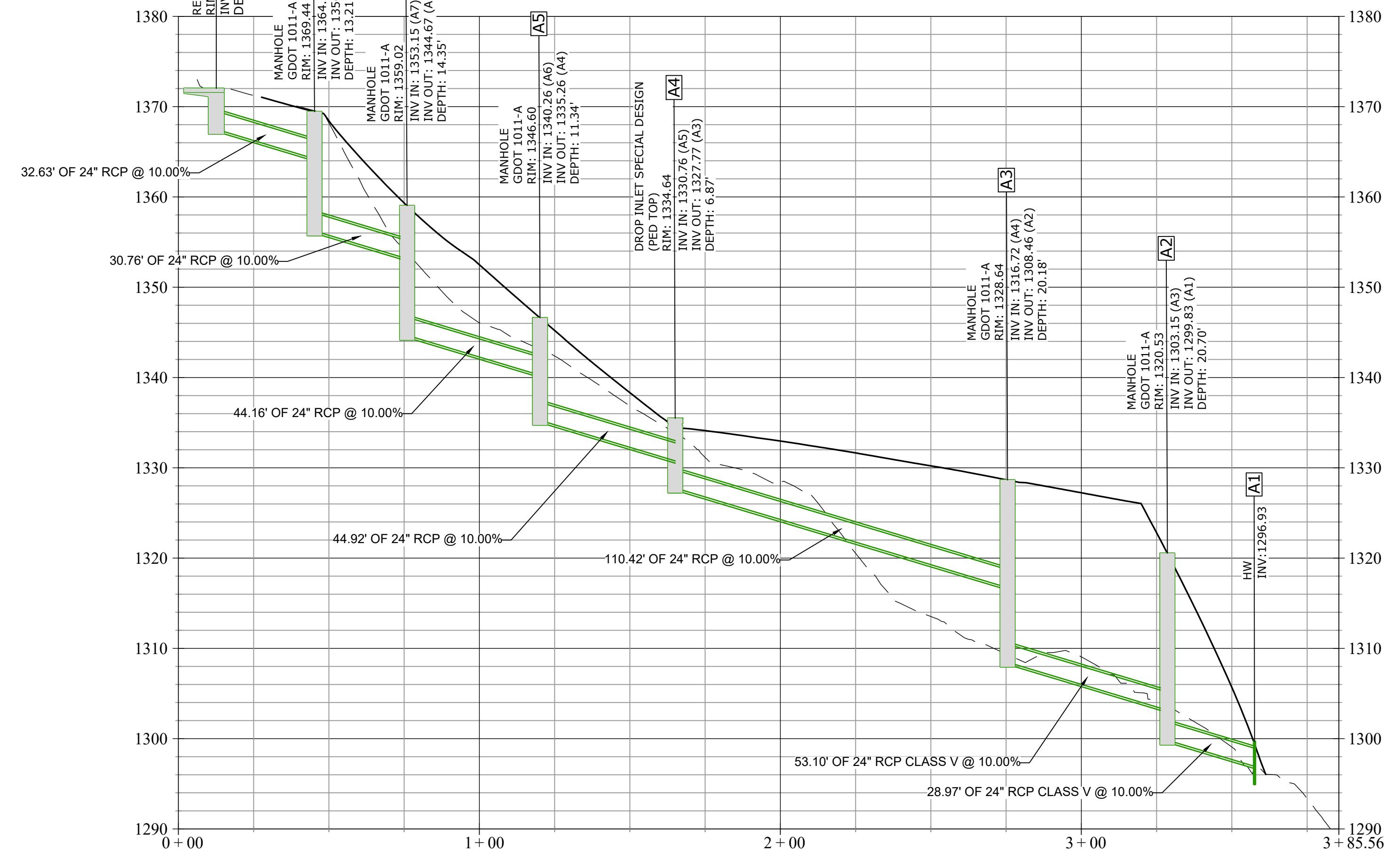


GRID (GA WEST)

GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.

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PROJECT OWNED/DEVELOPED BY:
CITY OF DALTON

535 ELM STREET DALTON, GA 30722
APARKER@CITYOFDALTON-GA.GOV
24 HOUR CONTACT INFORMATION
P. ANDREW PARKER, P.E. (706) 278-7077



① STORM SEWER A

H: 1" = 30'
0 25' 50' 100'
V: 1" = 10'
0 5' 10' 20'

ISSUED FOR: REVIEW

Project No.: 931-19-082
Designed By: KWC
Issue Date: 4/19/18

C6

811

SOUTHEASTERN ENGINEERING, INC.
2610 Sandy Plains Road, Marietta, Georgia 30066
tel: 770-321-9316 fax: 770-321-3335
www.seengineering.com

931-19-082

Know what's below.
Call before you dig.

Project Name: I:\\CUSTOMERS\\PROJECTS\\931-19-082 Botany Woods Drive\\Eng\\Construction\\931-19-082.dwg Plot Date: 5/3/2019 User: JIAN CLARK

CONSTRUCTION DETAILS

ASPHALTIC CONCRETE PAVEMENT
NOT TO SCALE

SUB DRAIN DETAIL
N.T.S.

TYPICAL LIFT PLACEMENT SECTION
N.T.S.

TYPICAL FILL PLACEMENT SECTION
N.T.S.

4H:1V OR FLATTER PROPERLY STABILIZED AND VEGETATED SLOPE
(BOTANY WOODS DRIVE)

EXISTING SLOPE OF 3:1 OR STEEPER

APPARENT SLOPE FAILURE PLANE

STRUCTURAL FILL COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAX. DRY DENSITY (ASTM D698)

STEP 1

STEP 2

STEP 3

STEP 1 (SEE DETAIL TYPICAL LIFT PLACEMENT SECTION)

STEP 2 (SEE NOTE 2)

STEP 3

PIPE BEDDING AND SUB-DRAIN CONSISTING OF #57 OR #78 STONE WRAPPED IN NON-WOVEN, NEEDLE-PUNCHED FILTER FABRIC SUCH AS MIRAFI 180N OR SIMILAR. MINIMUM OVERLAP: 12 INCHES

NO ADDITIONAL PAYMENT SHALL BE MADE FOR INSTALLATION OF THE FILTER FABRIC. THIS SHALL BE INCLUDED IN THE CONTRACTORS BID PRICE FOR TP II BACKFILL.

NO ADDITIONAL PAYMENT SHALL BE MADE FOR INSTALLATION OF THE FILTER FABRIC. THIS SHALL BE INCLUDED IN THE CONTRACTORS BID PRICE FOR TP II BACKFILL.

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CONCEPTUAL CROSS-SECTION LOOKING EAST

NOTES:

1. WHERE THE EMBANKMENT IS TO BE PLACED ON A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE OF 3 TO 1 OR STEEPER, THE FOUNDATION MUST BE BENCHED WHILE THE EMBANKMENT IS BEING BUILT (SEE DIAGRAM ABOVE).
2. THE DIAGRAM SHOWS THAT BEFORE LAYER "A" IS PLACED THE FIRST STEP (1) IS CUT INTO THE SLOPE A MAXIMUM DISTANCE OF ABOUT 8' (ABOUT 3' THE WIDTH OF THE TYPICAL 0-8 BULLDOZER BLADE). SUCCESSIVE LAYERS B, C, AND D ARE THEN PLACED BEFORE LAYER "E" IS PLACED, THE SECOND STEP IS CUT 8 FEET INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4 FEET IF A 8 FEET HORIZONTAL CUT IS MADE, THEN THE ACTUAL CUT STOPS WHEN THE VERTICAL PART REACHES A MAXIMUM 4 FEET ALLOWING THE HORIZONTAL DISTANCE TO VARY.
3. THE EMBANKMENT BENCHING IS TO BE CONSIDERED INCIDENTAL TO THE ITEM OF UNCLASSIFIED EXCAVATION AND BORROW OR GRADING COMPLETE IN CONSTRUCTION OF THE EMBANKMENT AND NO ADDITIONAL MEASUREMENT OF THE QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.

PROJECT OWNED/DEVELOPED BY:
CITY OF DALTON
535 ELM STREET DALTON, GA 30722
APARKER@CITYOFDALTON-GA-GOV

24 HOUR CONTACT INFORMATION
P. ANDREW PARKER, P.E. (706) 278-7077

GENERAL NOTES:

1. SPECIFICATIONS: GA STANDARD CURRENT EDITION & SUPPLEMENTS THERETO.
2. SEE STD. 1040 FOR ADDITIONAL DETAILS WHERE INLET IS CONSTRUCTED IN CIRCULAR CULVERTS.
3. SEE STD. 1040 FOR CIRCULAR PRECAST ALTERNATES.
4. PRECAST OR BRICK MASONRY: BRICK CONSTRUCTION SHALL EXTEND 6'-0" ABOVE TOP OF PIPE. JOINTS BETWEEN BRICK SECTIONS SHALL BE FLUSH OR CONC. FILLED TO GIVE MAX. BEARING AREA.
5. TYPICAL TREATMENT FOR SKewed PIPES:
(a) WHEN PIPES ARE BUILT-IN-PLACE, SET PRECAST APRON PARALLEL TO DITCH AND SET PRECAST APRON PARALLEL TO DITCH AND SKewed PIPE.
(b) WITH PRECAST APRON, USE CIRCULAR SECTIONS (STD. 1040)
USE REDUCER SLAB OR INCREASE W. OR W. DIMENSIONS AS NECESSARY OR USE CIRCULAR SECTIONS (STD. 1040)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD MEDIAN DROP INLET
(PRECAST OR BUILT-IN-PLACE)
& CONCRETE APRON

ISSUED FOR:
REVIEW

Project No.: 931-19-082

Designed By: KWC

Issue Date: 4/19/18

Form EFS

811

THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IT IS THE OWNER/DESIGNER'S RESPONSIBILITY TO VERIFY EXISTING UTILITY CAPACITY PRIOR TO INITIATING DESIGN. THE ENGINEER MAKES NO GUARANTEES, NEITHER EXPRESSED OR IMPLIED, REGARDING EXISTING UTILITY LOCATION, CAPACITY OR CONDITION.

535 ELM STREET DALTON, GA 30722
DALTON, GA, 30722
APARKER@CITYOFDALTON-GA-GOV

24 HOUR CONTACT INFORMATION
P. ANDREW PARKER, P.E. (706) 278-70

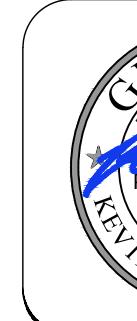
BOTANY WOODS DR SLOPE RECONSTRUCTION
PROJECT LOCATED AT:
BOTANY WOODS DR DALTON, GA, 30720
CITY OF DALTON

A circular seal for a Georgia Registered Professional Engineer. The outer ring contains the words "GEORGIA", "REGISTERED", "PROFESSIONAL", and "ENGINEER" in a clockwise direction. The inner circle contains "NO. 32190" and "KEVIN WAYNE CLARK" at the bottom. A blue ink signature of "Kevin Clark" is written across the center of the seal.

ISSUED FOR:
REVIEW

ct No.: 931-19-082
ned By: KWC
Date: 4/19/18

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CONSTRUCTION DETAILS	
BOTANY WOODS DR SLOPE RECONSTRUCTION	
PROJECT LOCATED AT: BOTANY WOODS DR DALTON, GA, 30720 CITY OF DALTON	
	
ISSUED FOR: REVIEW	
Project No.: 931-19-082 Designed By: kwc Issue Date: 4/19/18	
C7.1	

GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, stabilized roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of the project.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance infiltration, infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM. SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM. VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

DEFINITION
A PROTECTIVE COVERING (BLANKET) OR SOIL STABILIZATION MAT USED TO ESTABLISH PERMANENT VEGETATION ON STEEP SLOPES, CHANNELS, OR SHORELINES.

PURPOSE

- TO PROVIDE A MICROCLIMATE WHICH PROTECTS YOUNG VEGETATION AND PROMOTES ITS ESTABLISHMENT.
- TO REINFORCE THE TURF TO RESIST FORCES OF EROSION DURING STORM EVENTS.

COMBINATIONS
MATTING AND BLANKETS CAN BE APPLIED ON STEEP SLOPES WHERE EROSION HAZARD IS HIGH AND PLANTING IS LIKELY TO BE SLOW IN PROVIDING ADEQUATE PROTECTIVE COVER. CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2:5:1 AND WITH A HEIGHT OF TEN FEET OR GREATER, AND CUTS AND FILLS WITH A MAXIMUM SLOPE OF 3:16 X 5' WHICH BE STABILIZED WITH AN APPROPRIATE EROSION CONTROL MATTING OR BLANKETS. MAINTENANCE OF FINAL VEGETATIVE COVER MUST BE CONSIDERED WHEN CHOOSING BLANKETS VERSUS MATTING. ON STREAMBANKS OR TIDAL SHORELINES WHERE MOVING WATER IS PRESENT, MATTING CAN PREVENT NEW PLANTINGS FROM BEING WASHED AWAY.

MATERIALS: ALL BLANKET AND MATTING MATERIALS SHALL BE LISTED ON THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST (QPL # 62 FOR BLANKETS, QPL # 49 FOR MATTING). ALL BLANKETS SHALL BE NONTOXIC TO VEGETATION AND TO THE GERMINATION OF SEED AND SHALL NOT HARM THE PLANTING OR THE PROTECTIVE SKIN OF HUMANS. AT A MINIMUM, THE PLASTIC MATTING SHALL BE INTERWOVEN WITH THE MULCHING MATERIAL/FIBER TO MAXIMIZE STRENGTH AND PROVIDE FOR EASE OF HANDLING.

TEMPORARY BLANKETS: MACHINE PRODUCED TEMPORARY COMBINATION BLANKETS SHALL HAVE A CONSISTENT THICKNESS WITH THE ORGANIC MATERIAL EVENLY DISTRIBUTED OVER THE ENTIRE SURFACE AREA. ALL COMBINATION BLANKETS SHALL HAVE A MINIMUM WIDTH OF 48 INCHES. MACHINE PRODUCED COMBINATION BLANKETS INCLUDE THE FOLLOWING:

A. STRAW BLANKETS ARE COMBINATION BLANKETS THAT CONSIST OF DECOMPOSED STRAW (EXCLOSOR) BONDED INTO A PLASTIC MESH. THE MESH IS APPROPRIATE FOR SLOPES. THE BLANKET SHALL HAVE A MINIMUM THICKNESS OF 3/8 INCH AND MINIMUM DRY WEIGHT OF 0.5 POUNDS PER SQUARE YARD.

B. EXCLOSOR BLANKETS ARE COMBINATION BLANKETS THAT CONSIST OF CURED WOOD EXCLOSOR (80% OF FIBERS ARE SIX INCHES OR LONGER) FORMED INTO A BLANKET. THE BLANKET SHALL HAVE CLEAR MARKINGS INDICATING THE TOP SIDE OF THE BLANKET AND BE SMOLDER RESISTANT. BLANKETS SHALL HAVE PHOTODEGRADABLE PLASTIC MESH HAVING A MAXIMUM MESH SIZE OF 3 X 3 INCHES. THE MESH SHALL HAVE A MINIMUM THICKNESS OF 1/2 INCH AND A MINIMUM DRY WEIGHT OF 0.8 POUNDS PER SQUARE YARD. SLOPES REQUIRE EXCLOSOR MATTING WITH THE TOP SIDE OF THE BLANKET COVERED IN THE PLASTIC MESH, AND FOR WATER-WAYS, BOTH SIDES OF THE MESH REQUIRE PLASTIC MESH.

C. COCONUT FIBER BLANKETS ARE COMBINATION BLANKETS THAT CONSIST OF COCONUT FIBER FORMED INTO A BLANKET. THE MINIMUM THICKNESS OF THE BLANKET SHALL BE 1/4 OF AN INCH WITH A MINIMUM WEIGHT OF 0.5 POUNDS PER SQUARE YARD. BLANKETS SHALL HAVE PHOTODEGRADABLE PLASTIC MESH WITH A MAXIMUM MESH SIZE OF 5/8 X 5/8 INCH AND SEWN TO THE FIBER. COCONUT FIBER IS A BIOCERAMIC SYNTHETIC YARN. PLASTIC MESH IS REQUIRED ON BOTH SIDES OF THE BLANKET IF USED IN WATER-WAYS. A MAXIMUM OF TWO INCHES IS ALLOWABLE FOR THE STITCH PATTERN AND ROW SPACING. THIS PRACTICE SHALL BE APPLIED ONLY TO SLOPES.

PERMANENT EROSION CONTROL MATTING
CONSISTS OF A PERMANENT NON-DEGRADABLE THREE-DIMENSIONAL PLASTIC MESH WHICH IS CAVITY FILLED WITH FIBERS. PRIOR TO PLANTING, THESE MATS ARE ALSO KNOWN AS PERMANENT SOIL REINFORCING MATS (TURF REINFORCEMENT MATTING). ROOTS PENETRATE AND BECOME ENTANGLED IN THE MATRIX, FORMING A CONTINUOUS ANCHOR FOR SURFACE GROWTH AND PROMOTING ENHANCED ENERGY DISSIPATION. MATTING SHALL BE USED WHERE VELOCITY IS EXCEEDED AND DESIRED IN STORMWATER CONVEYANCE CHANNELS WHERE THE VELOCITY IS BETWEEN FIVE AND TEN FEET PER SECOND.

BENEFITS OF USING EROSION CONTROL MATTING INCLUDE THE FOLLOWING:

1. ALL BENEFITS GAINED FROM USING EROSION CONTROL BLANKETS.

2. CAUSES SOIL TO DROPOUT OF STORMWATER AND FILL MATRIX WITH FINE SOILS WHICH BECOME THE GROWTH MEDIUM FOR THE DEVELOPMENT OF ROOTS.

3. ACTS WITH THE VEGETATIVE ROOT SYSTEM TO FORM AN EROSION RESISTANT COVER WHICH RESISTS HYDRAULIC LIFT AND SHEAR FORCES WHEN EMBEDDED IN THE SOIL WITHIN STORMWATER CHANNELS.

TEMPORARY BLANKETS: MACHINED PRODUCED TEMPORARY COMBINATION BLANKETS SHALL HAVE A CONSISTENT THICKNESS WITH THE ORGANIC MATERIAL EVENLY DISTRIBUTED OVER THE ENTIRE SURFACE AREA. ALL COMBINATION BLANKETS SHALL HAVE A MINIMUM WIDTH OF 48 INCHES. MACHINE PRODUCED COMBINATION BLANKETS INCLUDE THE FOLLOWING:

A. STAKE MAT INTO SLOT

B. USE 1" X 3" PRESSURE TREATED BOARD TO BRACE MATTING AGAINST VERTICAL CUT.

C. BACKFILL AND COMPACT.

TEMPORARY BLANKETS: MACHINED PRODUCED TEMPORARY COMBINATION BLANKETS SHALL HAVE A CONSISTENT THICKNESS WITH THE ORGANIC MATERIAL EVENLY DISTRIBUTED OVER THE ENTIRE SURFACE AREA. ALL COMBINATION BLANKETS SHALL HAVE A MINIMUM WIDTH OF 48 INCHES. MACHINE PRODUCED COMBINATION BLANKETS INCLUDE THE FOLLOWING:

A. REVERSE MATT ROLL DIRECTION TO OVERLAY CHECK SLOT.

B. STAKE MATT TO ANCHOR TERMINAL

PERMANENT MATTING: PERMANENT MATTING SHALL CONSIST OF A LOFTY WEB OF MECHANICALLY OR MELT BONDED POLYMER NETTINGS, MONOFILAMENTS OR FIBER WHICH ARE ENTANGLED TO FORM A STRONG AND DIMENSIONALLY STABLE MATRIX. POLYMER NETTINGS, THE MESH HAVING A MINIMUM FIBER LENGTH OF 12 INCHES, A MAXIMUM FIBER DIAMETER OF 0.012 INCHES, AND A MAXIMUM MESH SIZE OF 1/2 INCH X 1/2 INCH. PERMANENT MATTING SHALL BE STABILIZED AGAINST ULTRAVIOLET DEGRADATION AND SHALL BE INERT TO CHEMICALS NORMALLY ENCOUNTERED IN A NATURAL SOIL ENVIRONMENT. THE MATTING SHALL CONFORM TO THE FOLLOWING PHYSICAL PROPERTIES:

PROPERTY

MINIMUM VALUE

THICKNESS

0.5 INCH

WEIGHT

0.6 POUNDS

ROLL WIDTH

38 INCHES

TENSILE STRENGTH

LENGTH (50% ELONGATION)

15 LBS./IN.

LENGTH (ULTIMATE)

20 LBS./IN.

WIDTH (50% ELONGATION)

5 LBS./IN.

WIDTH (ULTIMATE)

10 LBS./IN.

(ASTM D-1680, 6" STRIP)

UV/ULTRAVIOLET STABILITY

80%

(1000 HRS. IN AN ATLAS ARC WEATHERMETER, ASTM D 22, TYPE D IN ACCORDANCE WITH ASTM D 822)

SITE PREPARATION: AFTER THE SITE HAS BEEN SHAPED AND GRADED TO THE APPROVED DESIGN, PREPARE A FRIBLE SEEDBED RELATIVELY FREE FROM CLODS AND ROCKS MORE THAN ONE INCH IN DIAMETER, AND ANY FOREIGN MATERIAL THAT WILL PREVENT CONTACT OF THE SOIL STABILIZATION MAT WITH THE SOIL SURFACE.

EROSION CONTROL MATTING & BLANKETS

STOCK SAWN IN A TRIANGULAR SHAPE, SHALL BE USED. DEPENDING ON THE COMPACTION OF THE SOIL, SELECT ST

PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS 1/														
SPECIES	BROADCAST RATES 2/ - PLS 3/ - PER ACRE	PEK 1000 S.P.	RESOURCE AREA 4/	PLANTING DATES										REMARKS
				J	F	M	A	M	J	J	A	S	O	
BARLEY (Hordeum vulgare) ALONE OR IN MIXTURES	144 LBS. 24 LBS.	3.3 LBS. 0.6 LBS.	M-L P C	-	-	-	-	-	-	-	-	-	-	14,000 SEED PER POUND. WINTERHARDY. USE ON PROGRESSIVE SOILS.
LESPEZEA ANNUAL (Lespezia stans) ALONE OR IN MIXTURES	40 LBS. 10 LBS.	0.9 LBS. 0.2 LBS.	M-L P C	-	-	-	-	-	-	-	-	-	-	200,000 SEED PER POUND. MAY VOLUNTEER FOR SEVERAL YEARS. USE INOCULANT E.
LOW-GRASS, WEEPING (Eragrostis curvula) ALONE OR IN MIXTURES	4 LBS. 2 LBS.	0.1 LBS. 0.05 LBS.	M-L P C	-	-	-	-	-	-	-	-	-	-	1,500,000 SEED PER POUND. MAY LAST FOR SEVERAL YEARS. USE WITH SERICEA LESPEZEA.
MILLET, BROWNTOP (Pennisetum glaucum) ALONE OR IN MIXTURES	40 LBS. 10 LBS.	0.9 LBS. 0.2 LBS.	M-L P C	-	-	-	-	-	-	-	-	-	-	137,000 SEED PER POUND. QUICK COVER. WILL PROVIDE TOO MUCH COMPETITION FOR SEEDS IF SEEDED AT HIGH RATES.
RYE (Secale cereale) ALONE OR IN MIXTURES	168 LBS. 28 LBS.	3.9 LBS. 0.6 LBS.	M-L P C	-	-	-	-	-	-	-	-	-	-	18,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT. WINTERHARDY.
RYEGRASS, ANNUAL (Lolium temulentum) ALONE	40 LBS.	0.9 LBS.	M-L P C	-	-	-	-	-	-	-	-	-	-	227,000 SEED PER POUND. DENSE COVER. VINEYARD. COMPETITION FOR SEEDS NOT TO BE USED IN MIXTURES.
MILLET, PEARL (Pennisetum glaucum) ALONE	50 LBS.	1.1 LBS.	M-L P C	-	-	-	-	-	-	-	-	-	-	88,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT. MAY REACH 5 FEET IN HEIGHT. NOT RECOMMENDED FOR MIXTURES.
OATS (Avena sativa) ALONE OR IN MIXTURES	128 LBS. 32 LBS.	2.9 LBS. 0.7 LBS.	M-L P C	-	-	-	-	-	-	-	-	-	-	13,000 SEED PER POUND. USE ON PRODUCTIVE SOILS. WINTERHARDY AS RYE OR BARLEY.
SUDAN GRASS (Sorghum sudanense) ALONE	60 LBS.	1.4 LBS.	M-L P C	-	-	-	-	-	-	-	-	-	-	55,000 SEED PER POUND. GOOD NOT ON DROUGHT SITES. RECOMMENDED FOR MIXTURES.
TRITICALE (X. triticosecale) ALONE OR IN MIXTURES	144 LBS. 24 LBS.	3.3 LBS. 0.6 LBS.	C	-	-	-	-	-	-	-	-	-	-	USE ON LOWER PART OF SOUTHERN COASTAL PLAIN AND IN ATLANTIC COASTAL PLATEAUS ONLY.
WHEAT (Triticum aestivum) ALONE OR IN MIXTURES	180 LBS. 30 LBS.	4.1 LBS. 0.7 LBS.	M-L P C	-	-	-	-	-	-	-	-	-	-	15,000 SEED PER POUND. WINTERHARDY.

1/ TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWN OUT PERENNIALS IF SEEDED TOO
2/ REDUCE SEEDING RATES BY 50% WHEN DRILLED.
3/ PLS IS AN ABBREVIATION FOR PURE LIVE SEED.
4/ M-L REPRESENTS TO MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRA'S
C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST PLATEAUS MLRA'S

Ds-2 DISTURBED AREA STABILIZATION w/ TEMPORARY SEEDING

N.T.S.

CONTRACT ADDENDUM

ADDENDUM NO.: 001

DATE ISSUED: May 9, 2019

BID DATE: Wednesday, May 15, 2019

BID TIME: 2 PM ET

BID LOCATION: City of Dalton Public Works Department (535 Elm Street, Dalton GA 30721; newer brick building with green metal roof)

CONTRACTOR ACTION:

1. Acknowledge receipt of this addendum by writing in "Addendum No. 1" on the attached bid form.

INTERPRETATIONS:

Responses by the City of Dalton follow the questions in red font.

1. Are there any other bid documents, or is it just the plan sheets? The bid documents are the 12 plan sheets developed by SEI stamped on 04/22/2019, GDOT Standard Specifications, the contract which is attached, and any addenda issued on the project.
2. Is there a formal bid form? Yes – See attached bid form.
3. Is it a unit price bid or a lump sum bid? Unit price bid
4. Will the Notice to Proceed be provided quickly? Notice to Proceed is estimated to be issued to the awarded contractor on Tuesday, May 21st, 2019.
5. What is the final completion date and will there be liquidated damages? The final completion date for this project is July 31st, 2019. Liquidated damages will be assessed in the sum of \$200 for each consecutive calendar day thereafter for unfinished work until final completion is achieved. Additionally, the contractor will receive forty-five (45) calendar days to achieve substantial completion (85-90%) of the project from issuance of Notice to Proceed. Liquidated damages, under the same terms outlined above, will also be enforced on the substantial completion requirement.
6. Does substantial Completion include the reopening of the lane? No, the substantial completion of the project shall only require the slope to be stabilized and evidence of progress towards the reopening of the current lane closure.



7. Notes on Trench Construction for Storm Drain Detail about says no addition payment shall be made for installation of filter fabric. **This note will not be in effect since filter fabric is listed as a pay item (603-7000). Please note the requirements for the filter fabric to separate the top of the type II backfill from the native material/backfill above it.**
8. Is the vendor packet required as part of the bid package submittal? **No, this will be required of the awarded contractor, but it doesn't have to be included in the bid submittal. However, the E-Verify Affidavit is a requirement of the bid submittal (see attached).**
9. How are we to address the communications line on the site? **The City will work with the utility company to get the line relocated temporarily through the construction phase.**
10. Is it a responsibility of the Contractor to remove the large boulders on the site? Can these boulders be used as fill on the site? **The boulders should be removed if required to achieve the intended scope of the work, but they do not have to be removed if they do not interfere with the work to be done. The boulders can be pushed down to create an armored splash pad for the storm drain outlet.**
11. Where is the construction entrance to the site to be located? **See plan sheet C8.**
12. Does the contract include modifications to the curb and gutter on the south side of the road? **No, the City will be responsible for curb and gutter installation on the south side of the road and will coordinate with the contractor to facilitate this work prior to paving.**
13. Can the displaced dirt on the site as it sits currently be used as fill? What can be used as fill on the site? **Yes, the dirt on site can be used as long as the required benching is performed. All fill materials from offsite shall consist of clean soil, free of organic or deleterious materials, rocks, or broken pieces of concrete or any other foreign objects that could impede compaction results. Third party compaction testing will be performed by GeoHydro.**
14. How are rain days to be addressed? **The City and Contractor will mutually agree, as the project is commencing, on what will be considered rain days which result in no work being able to be performed.**
15. Remove pay item number 205-0100- Construction Allowance- 937-19-082. **The pay item table has been modified to removed this pay item (see attached).**
16. Who performed the existing conditions survey and performed staking of the limits of disturbance and easement?

**Jason Burnette
Senior Project Manager
jasonb@lasurveys.com
Lowery & Associates Land Surveying, LLC**



317 Grassdale Road, Cartersville, GA 30120
(770) 334-8186 (706) 278-8955
Licensed throughout the Southeast
<http://www.lowerylandsurveys.com>

17. Can you advise why Standard 9031S is shown in addition to the detail for the pedestal inlet top? Is it your desire to use the pedestal inlet top for structure A4? Due to the wooded nature of the area, the pedestal top would be a better fit for long term maintenance. The 9031S structure will be used, but with the pedestal top detail shown on C7.1.

18. Where is the erosion control detail located for Sd2-F? Can you incorporate a detail into the plans or advise how we should handle this? For GDOT Construction Details EC6 and D-24C for additional information for Inlet Sediment Trap Sd2-F, please see the attached.

19. Please Clarify the location of the 50 SY of 12" rip rap. The 50 SY of 12 inch rip rap is at the location where the new slope ties into the existing slope. It is inadvertently labeled as 24 inch on the plans currently.

20. What bonds are required for this project? This project will only require a performance bond for 100% of the awarded contract price. This bond will only be required of the awarded bidder.

BY:

Megan Elliott
Project Engineer

Attachments:

- Contract
- Bid Form
- E-Verify Affidavit
- Erosion Control Details

###



CONTRACT ADDENDUM

ADDENDUM NO.: 002

DATE ISSUED: May 13, 2019

BID DATE: Wednesday, May 15, 2019

BID TIME: 2 PM ET

BID LOCATION: City of Dalton Public Works Department (525 Elm Street, Dalton, GA 30721; newer brick building with green metal roof)

CONTRACTOR ACTION:

1. Acknowledge receipt of this addendum by writing in "Addendum No. 2" on the attached bid form.

INTERPRETATIONS:

Responses by the City of Dalton follow the questions in red font.

1. Is there a location that wood chippings can be taken and disposed of at no cost? Yes, disposal of clean finely ground mulch may be disposed of at the Closed Brooker Inert Landfill Facility located at 145 Raisin Way, Dalton, Ga 30721. All material should be of a high enough quality that it can be burned in a boiler for the production of power.
2. Is there a location that root balls can be taken and disposed of at no cost? No, unless the materials can be sheared and separated finely enough to comply with the requirements necessary to be burned in a boiler for the production of power.

BY:

**Megan Elliott
Project Engineer**

###



EXHIBIT “B”

CONDITIONS AND TERMS OF PAYMENT

- Contractor's unit bid prices for work items as outlined in the specifications are:

Bid Proposal Form - PROJECT #931-19-082
Botany Woods Drive Slope Reconstruction

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
GRADING & ROADWAY ITEMS					
150-1000	TRAFFIC CONTROL - 931-19-082	LS	1	15,850.00	\$15,850.00
210-0100	GRADING COMPLETE - 931-19-082 (Approximately 9340 CY of Fill Material)	LS	1	325,000.00	\$325,000.00
310-5080	GR AGGR BASE CRS, 8 INCH, INCL MATL	SY	650	30.00	\$19,500.00
402-3103	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	25	130.00	\$3,250.00
402-3111	RECYCLED ASPH CONC 19 MM SUPERPAVE, TYPE II, GP 1 or GP 2, INCL BITUM MATL & H LIME	TN	35	180.00	\$6,300.00
413-1000	BITUM TACK COAT	GL	20	0.01	\$0.20
441-6216	CONC CURB & GUTTER, 8 IN X 24 IN, TP 2	LF	200	17.70	\$3,540.00
643-3000	ORANGE SAFETY FENCE	LF	250	7.00	\$1,750.00
SUB TOTAL					\$375,190.20
DRAINAGE ITEMS					
207-0203	FOUND BKFILL MATL, TYPE 2 BACKFILL MATERIAL (WASHED 57s)	CY	148	160.00	\$23,680.00
500-3800	CLASS A CONCRETE, INCL REINF STEEL	CY	2	3,500.00	\$7,000.00
550-1240	STORM DRAIN PIPE, 24 IN, H 1-10 - CLASS III RCP	LF	265	75.00	\$19,875.00
550-1243	STORM DRAIN PIPE, 24 IN, H 20-25 - CLASS V RCP	LF	85	125.00	\$10,625.00
603-2180	STN DUMPED RIP RAP, TP 3, 12 IN	SY	100	86.00	\$8,600.00
603-2182	STN DUMPED RIP RAP, TP 3, 24 IN	SY	50	96.00	\$4,800.00
603-7000	PLASTIC FILTER FABRIC	SY	616	80.00	\$49,280.00
611-3004	RECONSTRUCT CATCH BASIN	EA	1	4,000.00	\$4,000.00
668-2105	DROP INLET, GP1, SPCL DES	EA	1	7,500.00	\$7,500.00
668-2115	DROP INLET, GP1, ADDL DEPTH, SPCL DES	LF	1	7,500.00	\$7,500.00
668-4300	STORM SEW MANHOLE, TP 1	EA	5	4,822.21	\$24,111.05
668-4311	STORM SEW MANHOLE, TP 1, ADDL DEPTH, CL 1	LF	50	310.00	\$15,500.00
SUB TOTAL					\$182,471.05

Bid Proposal Form - PROJECT #931-19-082
Botany Woods Drive Slope Reconstruction

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
TEMPORARY EROSION CONTROL ITEMS					
163-0232	TEMPORARY GRASSING	AC	0.91	550.00	\$500.50
163-0240	MULCH	TN	5	250.00	\$1,250.00
163-0300	CONSTRUCTION EXIT	EA	1	2,100.00	\$2,100.00
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	10	350.00	\$3,500.00
165-0010	MAINTENANCE OF TEMPORARY SILT FENCE - TYPE A	LF	272	0.50	\$136.00
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE - TYPE C	LF	789	0.50	\$394.50
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	EA	10	150.00	\$1,500.00
171-0010	TEMPORARY SILT FENCE, TYPE A	LF	272	7.00	\$1,904.00
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	789	7.00	\$5,523.00
				SUB TOTAL	\$16,808.00

PERMANENT EROSION CONTROL ITEMS					
700-6910	PERMANENT GRASSING	AC	0.76	3,500.00	\$2,660.00
700-7000	AGRICULTURAL LIME	TN	1	250.00	\$250.00
700-8000	FERTILIZER MIXED GRADE	TN	1	250.00	\$250.00
700-8100	FERTILIZER NITROGEN CONTENT	LB	10	11.00	\$110.00
700-9300	SOD	SY	705	10.00	\$7,050.00
700-9000	PERMANENT SOIL REINFORCING MAT	SY	385	6.50	\$2,502.50
				SUB TOTAL	\$12,822.50

Company Name: Northwest Georgia Paving, Inc.

Authorized Bid Rep. Signature: 

Authorized Bid Rep. Title: President

TOTAL	\$587,291.75
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- Contractor will submit monthly payment requests to the Public Works Department at the beginning of each month. This billing will be for work performed the previous month and will be reviewed and approved by the City's Project Engineer.

CITY OF DALTON

DALTON PROJECT NO: PW-931-19-082 BOTANY WOODS SLOPE RECONSTRUCTION

CONTRACTOR AFFIDAVIT AND AGREEMENT (E-VERIFY)

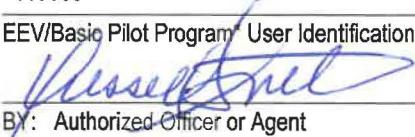
By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. 13-10-91, stating affirmatively that the individual, firm, or corporation which is contracting with City of Dalton has registered with and is participating in a federal work authorization program* [any of the electronic verification of work authorization programs operated by the United States Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act of 1986 (IRCA), P.L. 99-603], in accordance with the applicability provisions and deadlines established in O.C.G.A. 13-10-91.

The undersigned further agrees that, should it employ or contract with any subcontractor(s) in connection with the physical performance of services pursuant to this contract with City of Dalton, contractor will secure from such subcontractor(s) similar verification of compliance with O.C.G.A. 13-10-91 on the Subcontractor Affidavit provided in Rule 300-10-01-.08 or substantially similar form. Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the City of Dalton at the time the subcontractor(s) is retained to perform such service.

The undersigned Contractor is using and will continue to use the federal work authorization program throughout the contract period.

110560

EEV/Basic Pilot Program User Identification Number (E-VERIFY #)


5/15/19

BY: Authorized Officer or Agent

Date

(Contractor Name) Northwest Georgia Paving, Inc.

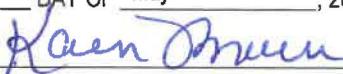
President

Title of Authorized Officer or Agent of Contractor

Russell Smith

Printed Name of Authorized Officer or Agent

SUBSCRIBED AND SWORN
BEFORE ME ON THIS THE
14th DAY OF May, 2019


Karen Brown
Notary Public
My Commission Expires:
6/1/2021



* As of the effective date of O.C.G.A. 13-10-91, the applicable federal work authorization program is the "EEV/Basic Pilot Program" operated by the U.S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA).

E-VERIFY AFFIDAVIT

