

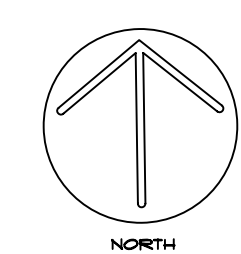
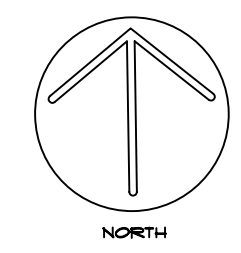
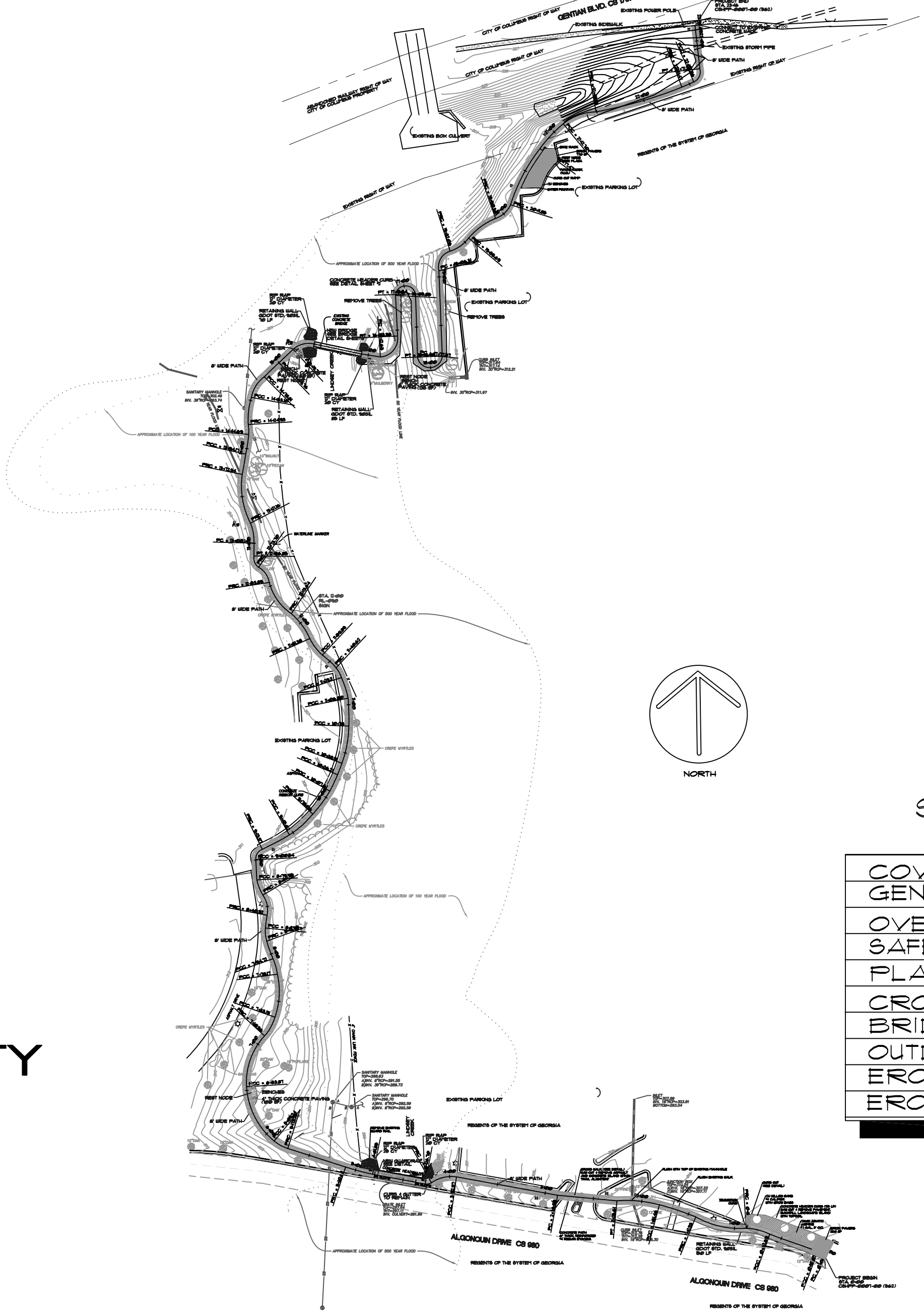
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|-------|--------------------|-----------|--------------|
| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
| GA | CSHPP-0007-00(562) | 0 | 19 |
| | REVISION | | DATE |

CONSTRUCTION PLANS MULTI-USE TRAILS CSHPP-0007-00(562) COLUMBUS STATE UNIVERSITY COLUMBUS, MUSCOGEE COUNTY, GEORGIA

HORIZONTAL DATUM - ASSUMED COORDINATES
VERTICAL DATUM - NAVD1988
ENVIRONMENTAL CLASSIFICATION : CE
PROJECT REVIEW DESIGNATION : EXEMPT

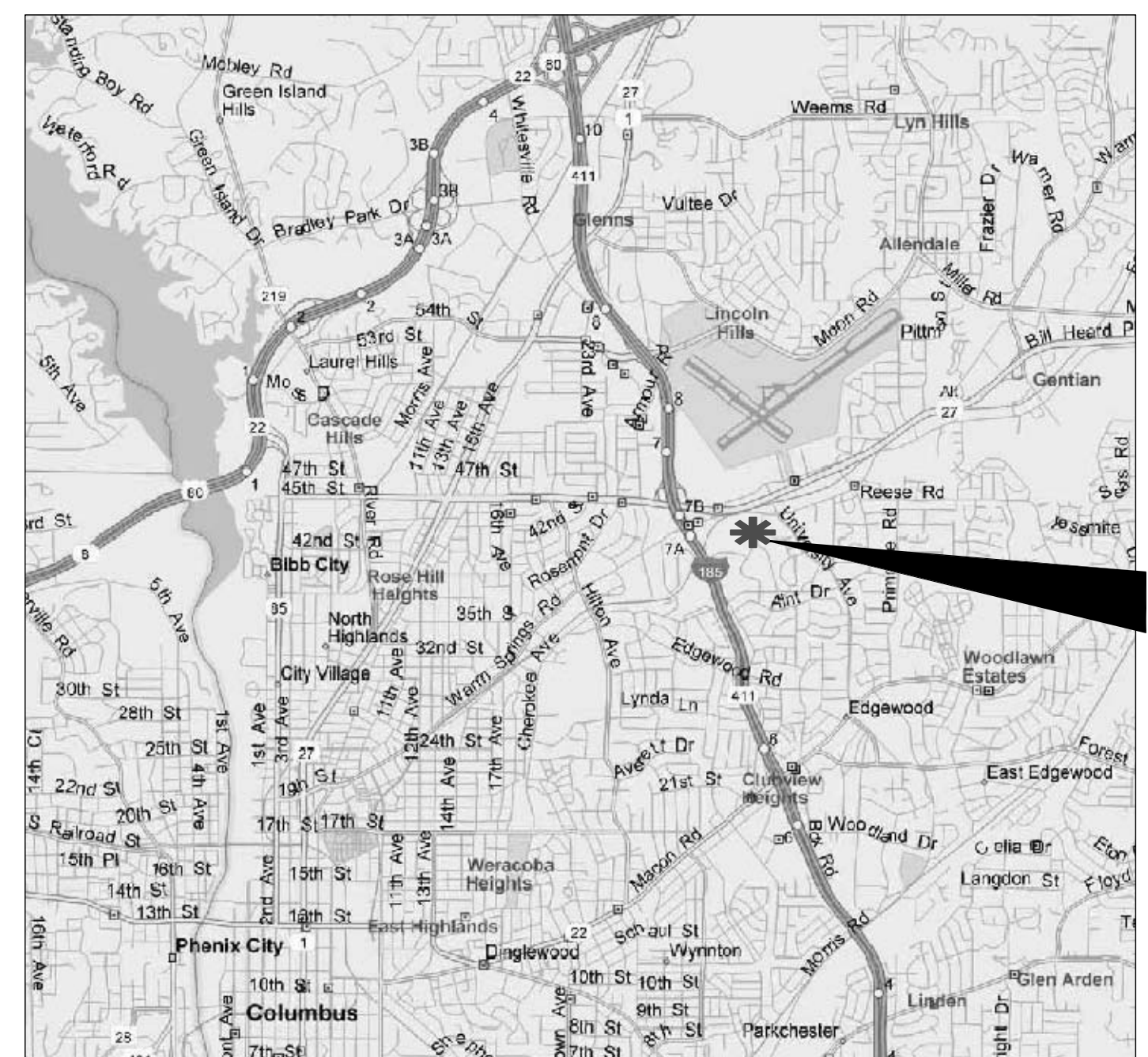
THIS PROJECT IS LOCATED IN THE
3rd CONGRESSIONAL DISTRICT OF GEORGIA

PROJECT LENGTH 2,316 LINEAR FEET



INDEX OF SHEETS

| SHEET TITLE | SHEET NUMBER |
|--|--------------|
| COVER SHEET | 0 |
| GENERAL NOTES & DETAIL ESTIMATE | 1 |
| OVERALL PLAN | 2 |
| SAFETY & TRAFFIC CONTROL PLAN | 3 |
| PLAN AND PROFILE SHEETS | 4-10 |
| CROSS SECTIONS | 11 |
| BRIDGE PLAN SHEET | 12-14 |
| OUTDOOR LIGHTING PLAN | 15 |
| EROSION & SEDIMENT CONTROL PLANS | 16-18 |
| EROSION & SEDIMENT CONTROL PLANS NOTES AND DETAILS | 19 |



PROJECT VICINITY

VICINITY MAP
NTS

NOTE:
THIS PROJECT TO BE CONSTRUCTED AS PER GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 2001 EDITION, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION AND MODIFIED BY CONTRACT DOCUMENTS.

SUBMITTED FOR: COLUMBUS STATE UNIVERSITY
APPROVED BY: _____



PLANS PREPARED BY:
Rakestraw & Associates, Inc.
Planning * Design * Environmental
83 Ty Ty Omega Road Tifton, Georgia 31793 229-382-0000

| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS | REVISIONS | |
|-------|--------------------|-----------|--------------|-----------|-------------|
| GA | CSHPP-0001-00(562) | 1 | 19 | DATE | DESCRIPTION |

GENERAL NOTES:

- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT MAY NOT BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE BEEN INSTALLED AND CONSTRUCTED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) AFFECTING HIS WORK. IN ADDITION TO CONTACTING THE LOCAL UTILITY AGENCIES, THE CONTRACTOR SHALL GIVE THREE WORKING DAYS NOTICE TO THE UTILITIES PROTECTION CENTER AT 1-800-282-7411 PRIOR TO ANY EXCAVATION.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES DAMAGED DURING CONSTRUCTION WITH LIKE MATERIALS AND CONSTRUCTION METHODS AS APPROVED BY THE DESIGNER AND THE CITY OF PELHAM WITHOUT INCREASE IN CONTRACT PRICE OR TIME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF UTILITY RELOCATION.
- THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION AND SHALL USE WHATEVER MEANS NECESSARY TO MANAGE STORM WATER SUCH THAT IMPACT TO CONSTRUCTION IS MINIMIZED.
- DEWATERING SHALL BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH PROJECT SPECIFICATIONS AS NECESSARY TO INSTALL/CONSTRUCT THE WORK PROPERLY. DEWATERING DISCHARGE SHALL BE IN ACCORDANCE WITH APPLICABLE REGULATIONS AND REQUIREMENTS OF AGENCIES HAVING JURISDICTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE 1992 GEORGIA HIGH VOLTAGE SAFETY ACT AND TO NOTIFY THE UTILITIES PROTECTION CENTER AT 1-800-282-7411 BEFORE WORKING WITHIN 10 FEET OF OVERHEAD POWER LINES OF 750 VOLTS OR MORE.
- ANY CHANGES IN THE APPROVED PLANS MUST BE COORDINATED WITH THE PROJECT ENGINEER AND MUST BE APPROVED PRIOR TO PROCEEDING.
- THE CONTRACTOR SHALL MAKE TEMPORARY CONNECTIONS TO ASSURE UTILITY SERVICE IS RESTORED AT THE END OF THE WORK DAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SHRUBBERY, TREES, OR STRUCTURES WITHIN THE WORKING AREA THROUGHOUT THE COURSE OF CONSTRUCTION. ANY TREES, SHRUBS, OR STRUCTURES DAMAGED OR DISTURBED SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING MANHOLE COVERS AND VALVE BOXES TO PROPOSED FINAL GRADE. PAYMENT FOR THIS ITEM SHALL BE UNDER GRADING COMPLETE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A TRAFFIC CONTROL PLAN SHOWING PROPOSED MEASURES TO MANAGE TRAFFIC DURING CONSTRUCTION ACTIVITIES. THE PLAN SHALL CONFORM TO THE 2003 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, MILLENNIUM EDITION, AND GDOT SPECIFICATION 150. ANY LANE CLOSURES MUST BE APPROVED BY AND COORDINATED WITH THE GDOT AREA ENGINEER. LANE CLOSURES WILL REQUIRE PROPER LANE TAPERS AND ADVANCE WARNINGS PER GDOT STANDARDS.
- ALL SIGNING AND MARKING SHALL BE IN ACCORDANCE WITH THE 2003 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, MILLENNIUM EDITION.

LEGEND

| | | | |
|-----------------------------|--|----------------------------|--|
| EXISTING CURB INLET | | PROPOSED GAS VALVE | |
| PROPOSED CURB INLET | | EXISTING CATCH BASIN | |
| NAIL SET | | PROPOSED CATCH BASIN | |
| BENCHMARK | | EXISTING RAILROAD SIGNAL | |
| CONCRETE MONUMENT FOUND | | EXISTING PROPERTY LINE | |
| IRON PIN FOUND | | EXISTING RIGHT-OF-WAY | |
| IRON PIN SET | | EXISTING WATER LINE | |
| PROPOSED FIRE HYDRANT | | PROPOSED WATER LINE | |
| EXISTING FIRE HYDRANT | | EXISTING GAS LINE | |
| EXISTING LIGHT POLE | | PROPOSED GAS LINE | |
| PROPOSED LIGHT POLE | | EXISTING WOOD LINE | |
| EXISTING SEWER MANHOLE | | PROPOSED CONTOUR | |
| PROPOSED SEWER MANHOLE | | EXISTING CONTOUR | |
| EXISTING SPOT ELEVATION | | SOIL LINE | |
| PROPOSED SPOT ELEVATION | | OVERHEAD POWER LINE | |
| EXISTING WATER METER | | UNDERGROUND POWER LINE | |
| PROPOSED WATER METER | | TELEPHONE LINE | |
| EXISTING TELEPHONE PEDESTAL | | UNDERGROUND TELEPHONE LINE | |
| EXISTING CABLE TV BOX | | CABLE T.V. | |
| EXISTING POWER POLE W/ GUY | | UNDERGROUND CABLE T.V. | |
| EXISTING BACKFLOW PREVENTER | | FLOW LINE | |
| PROPOSED BACKFLOW PREVENTER | | EXISTING DITCH | |
| EXISTING WATER VALVE | | EXISTING FENCE | |
| PROPOSED WATER VALVE | | PROPOSED FENCE | |
| EXISTING GAS VALVE | | EXISTING SANITARY SEWER | |
| | | PROPOSED SANITARY SEWER | |
| | | EXISTING STORM SEWER | |
| | | PROPOSED STORM SEWER | |
| | | EXISTING FORCE MAIN | |
| | | PROPOSED FORCE MAIN | |
| | | EXISTING EDGE OF PAVEMENT | |
| | | PROPOSED EDGE OF PAVEMENT | |
| | | EXISTING EDGE OF ROAD | |

DETAILED ESTIMATE

| ITEM NO. | DESCRIPTION | UNITS | QUANTITY |
|----------|------------------------------------|-------|----------|
| 005-0023 | ADA CURB CUT RAMPS | EA | 4 |
| 005-6090 | EXTEND POWER SOURCE | LS | LUMP SUM |
| 009-2000 | LANDSCAPING WITH IRRIGATION | LS | LUMP SUM |
| 009-2002 | BACKFILL PLANTER | LS | LUMP SUM |
| 150-1000 | SAFETY & TRAFFIC CONTROL | LS | LUMP SUM |
| 163-0001 | EROSION CONTROL | LS | LUMP SUM |
| 210-0100 | GRADING COMPLETE | LS | LUMP SUM |
| 211-1000 | BRIDGE EXCAVATION | CY | 20 |
| 212-1000 | GRANULAR EMBANKMENT | CY | 125 |
| 310-5060 | GR AGGR BASE CRS, 6 INCH INCL MATL | SY | 2300 |
| 400-3600 | ASPH CON 9.5 MM | TN | 488,840 |
| 441-0106 | CONC SIDEWALK, 6 INCH | SY | 50 |
| 441-0104 | CONC SIDEWALK, 4 IN | SY | 50 |
| 441-5003 | CONC HEADER CURB, 6 INCH, TP 2 | LF | 825 |
| 500-3107 | CLASS A CONCRETE, RETAINING WALL | CY | 35 |
| 543-9000 | CONSTRUCTION OF BRIDGE COMPLETE | LS | LUMP SUM |
| 682-9030 | LIGHTING SYSTEM | LS | LUMP SUM |
| 700-0010 | WILDFLOWER SEEDING | AC | 1.5 |

UTILITY PROVIDERS

WATER: CITY OF COLUMBUS-STEVE FIX (706) 649-3400
 SEWER: CITY OF COLUMBUS-STEVE FIX (706) 649-3400
 PHONE: BELL SOUTH-DAVID HUCKBY (706) 3213988
 ELECTRIC: GEORGIA POWER-KEVIN HENDERSON (706) 321- 3547
 CABLE: NOT APPLICABLE

NTS

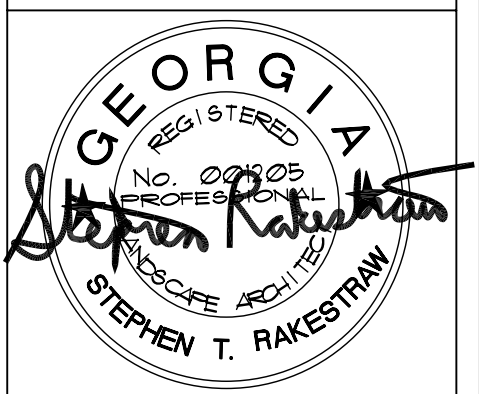
ABBREVIATIONS

| | | | |
|---------|---|--------|--------------------------|
| AC | ASBESTOS CEMENT PIPE | MIN | MINIMUM |
| BCCMP | BITUMINOUS COATED CORRUGATED METAL PIPE | MISC | MISCELLANEOUS |
| BLDG | BUILDING | MJ | MECHANICAL JOINT |
| BOC | BACK OF CURB | N.G.S. | NATIONAL GEODETIC SURVEY |
| BTM | BOTTOM | NIC | NOT IN CONTRACT |
| CI | CURB INLET | NTS | NOT TO SCALE |
| CIP | CAST IRON PIPE | OCEW | ON CENTER EACH WAY |
| CL | CENTERLINE | OD | OUTSIDE DIAMETER |
| CM | CONCRETE MONUMENT | PC | POINT OF CURVE |
| CMP | CORRUGATED METAL PIPE | PT | POINT OF TANGENT |
| co | CLEAN OUT | PVC | POLYVINYL CHLORIDE PIPE |
| CONC | CONCRETE | PVMT | PAVEMENT |
| CONT | CONTINUOUS | R | RADIUS |
| CY | CUBIC YARD | RCP | REINFORCED CONCRETE PIPE |
| DIA (Ø) | DIAMETER | REQD | REQUIRED |
| DIP | DUCTILE IRON PIPE | RR | RAILROAD |
| DEPT | DEPARTMENT | R/W | RIGHT OF WAY |
| DOT | GEORGIA DEPARTMENT OF TRANSPORTATION | S | SLOPE |
| EA | EACH | SCH | SCHEDULE |
| EG | EXISTING GROUND | SHT | SHEET |
| EL | ELEVATION | SJ | SLIP JOINT |
| EOP | EDGE OF PAVEMENT | SP | SERVICE POLE |
| EOR | EDGE OF DIRT ROAD | SS | STAINLESS STEEL |
| EPD | ENVIRONMENTAL PROTECTION DIVISION | SSES | SAFETY SLOPE END SECTION |
| EQ | EQUAL | STA | STATION |
| EW | EACH WAY | STD | STANDARD |
| EXIST | EXISTING | SY | SQUARE YARDS |
| FES | FLARED END SECTION | TOC | TOP OF CURB |
| FF | FINISHED FLOOR ELEVATION | TOE | TOE OF SLOPE |
| GAB | GRADED AGGREGATE BASE | TOF | TOP OF FOOTING |
| GALV | GALVANIZED | TOP | TOP OF PAVEMENT |
| HB | HOSE BIBB | TOH | TOP OF HEADWALL |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE | TYP | TYPICAL |
| HORIZ | HORIZONTAL | VERT | VERTICAL |
| ID | INSIDE DIAMETER | VC | VERTICAL CURVE |
| INV | INVERT ELEVATION | VCP | VITRIFIED CLAY PIPE |
| IP | IRON PIPE/PIN | W/ | WITH |
| MAX | MAXIMUM | B.O.R. | BOARD OF REGENTS-GA. |

NORTH



Rakestraw & Associates
 Planning • Design • Environmental
 23 TY TY OMEGA RD.
 TIFTON, GA. 31794
 Phone: 229.382.0003



10-7-09

PROJECT:
 MULT-USE TRAIL
 COLUMBUS, GA
 CLIENT:
 COLUMBUS STATE
 UNIVERSITY

SHEET TITLE:
 GENERAL NOTES &
 DETAILED ESTIMATE

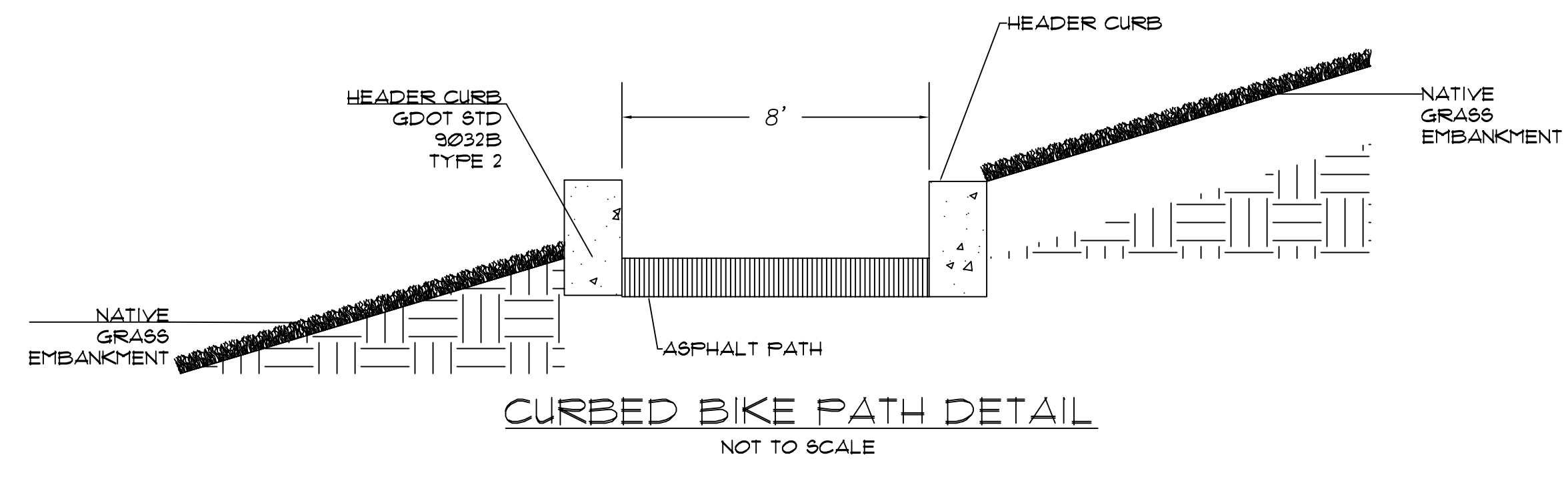
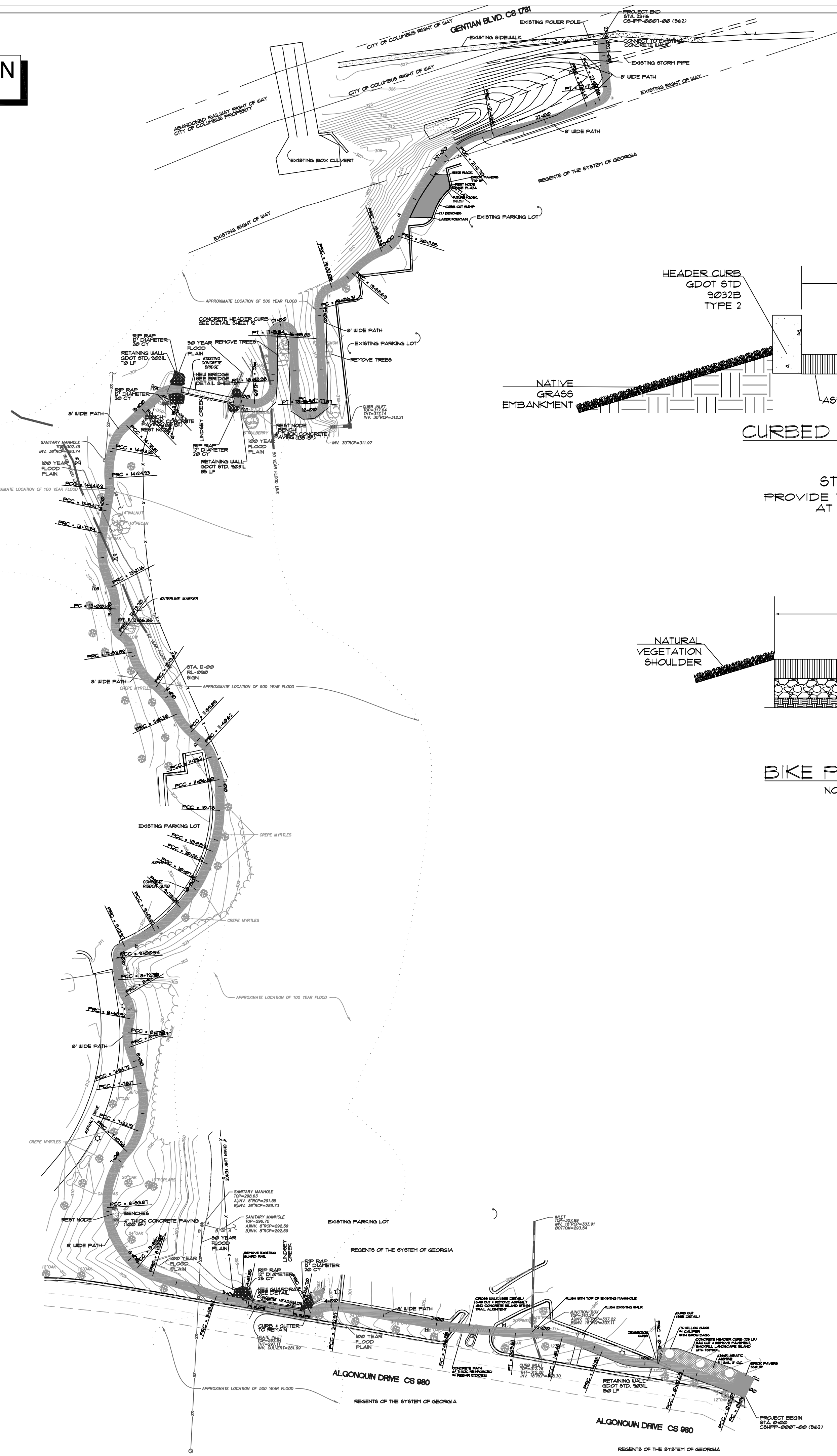
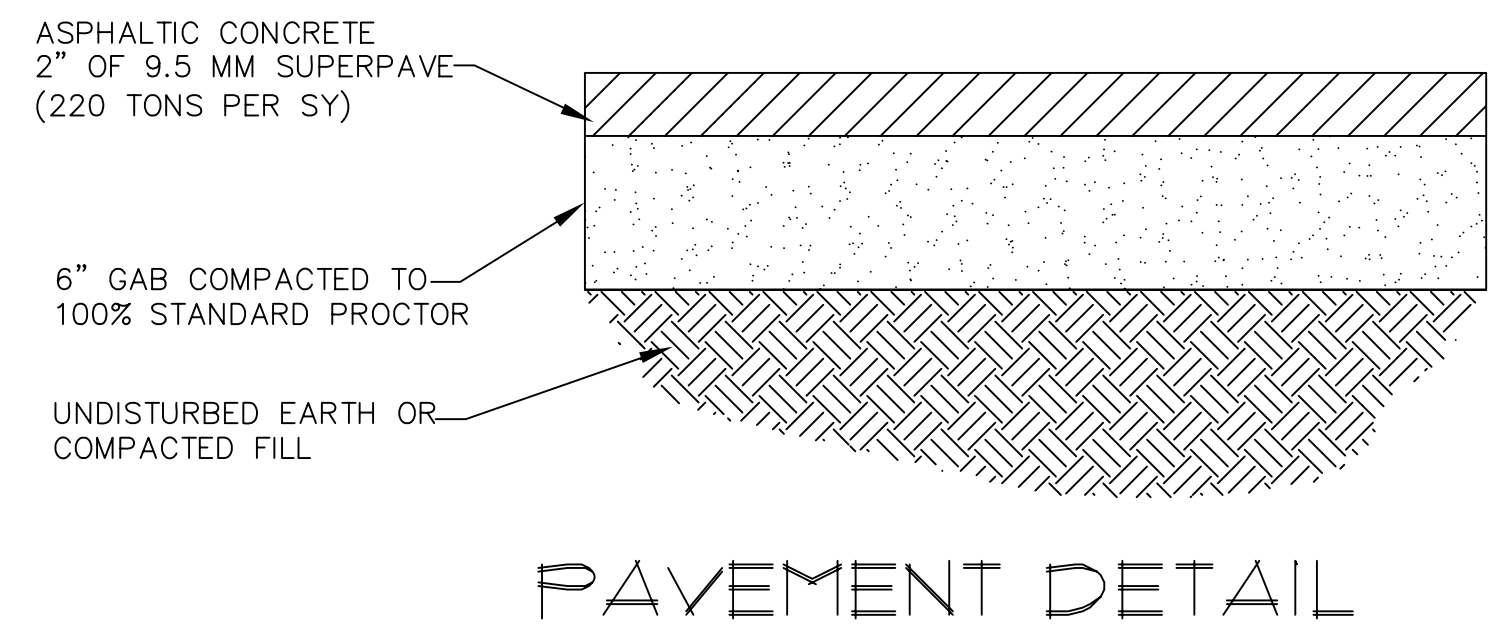
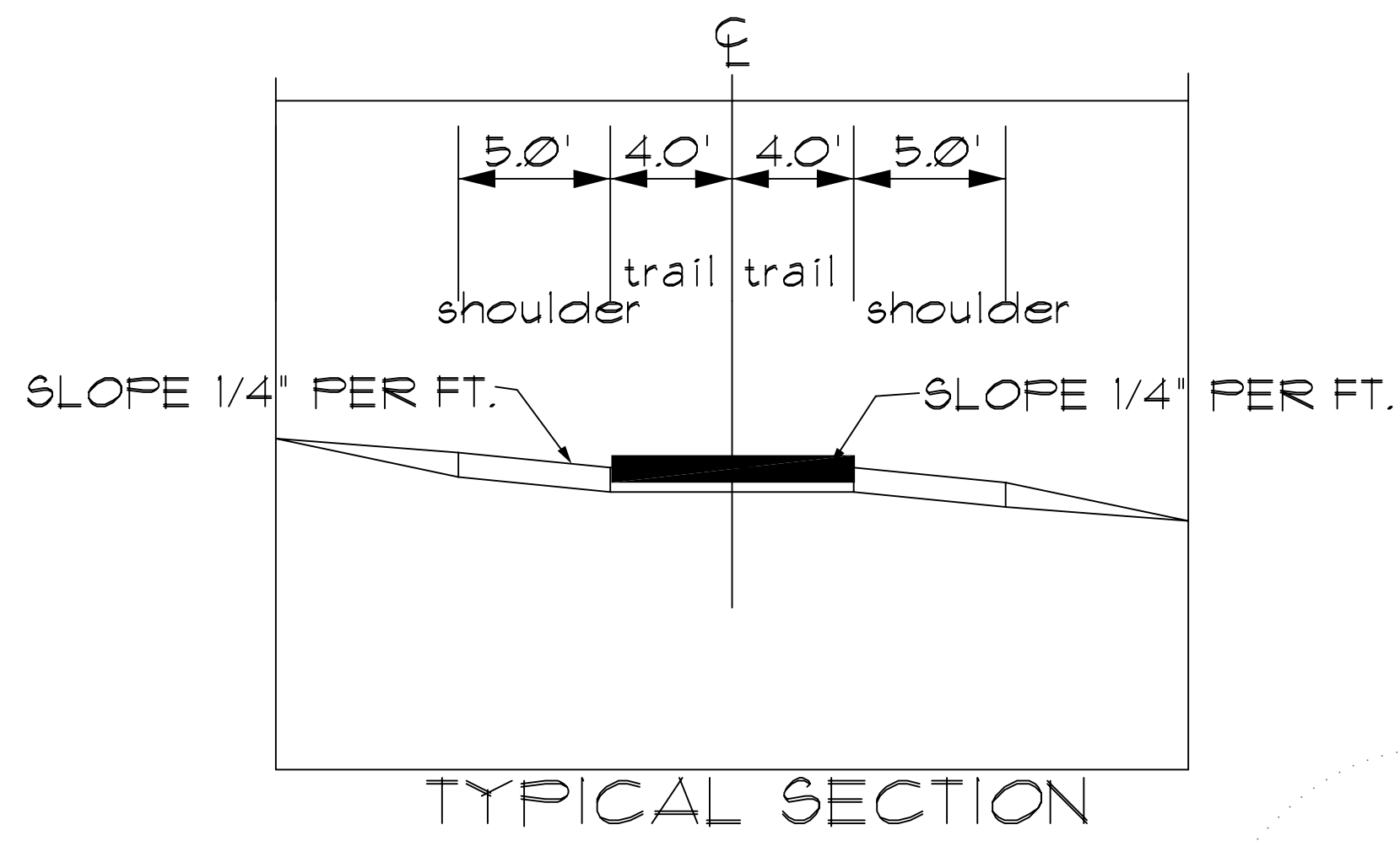
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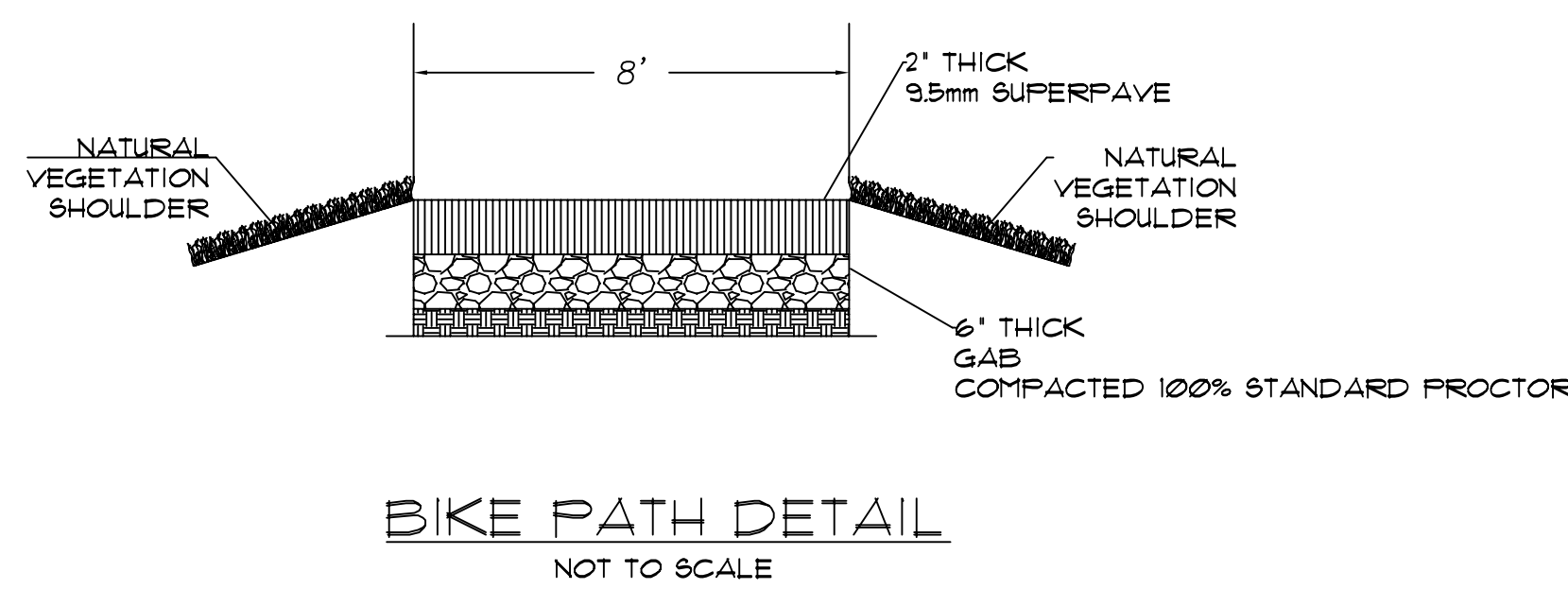
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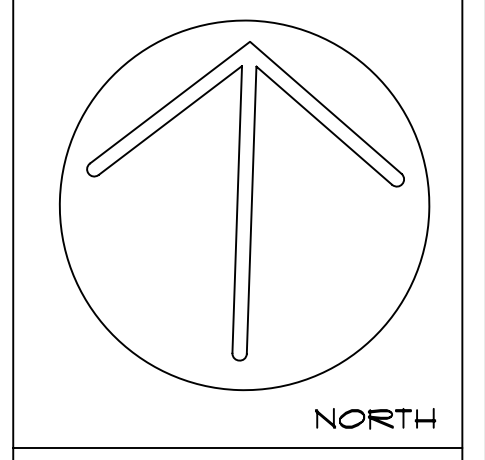
MULTI-USE TRAIL PLAN
NOT TO SCALE



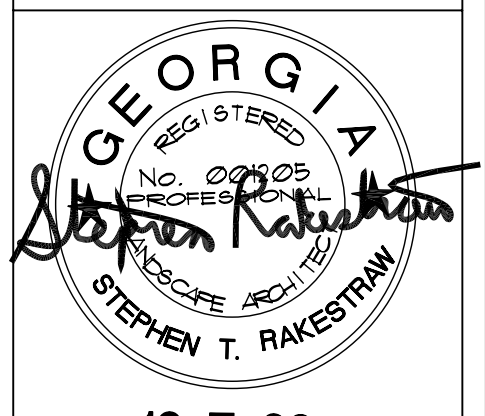
STA 15+90 - 19-30
PROVIDE 1' W X 2' D X 6' H CONCRETE FLUMES
AT STA. 18+00, 17+00, & 16+25



| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS | REVISIONS |
|-------|--------------------|-----------|--------------|------------------|
| GA | CSHPP-0001-00(562) | 2 | 19 | DATE DESCRIPTION |



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TIFTON, GA. 31794
Phone: 229.382.0003



10-7-09
PROJECT:
MULTI-USE TRAIL
COLUMBUS, GA
CLIENT:
COLUMBUS STATE
UNIVERSITY









SHEET TITLE:
OVERALL SHEET

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DATE: 10/09
SCALE: NOT TO SCALE
SHEET NO.:
2
of 19

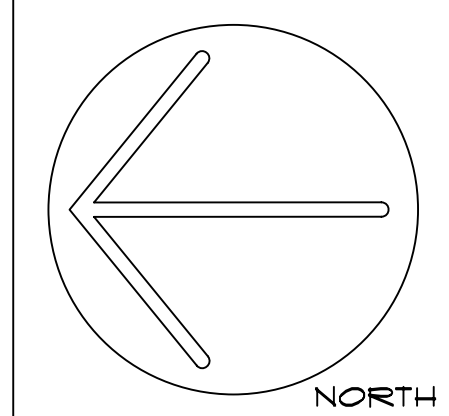
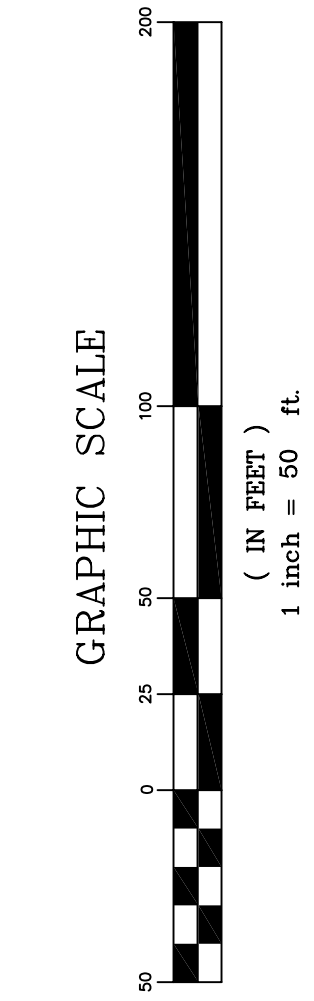
GENERAL NOTES:

- 1) ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERRECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS; AND/OR SPECIAL PROVISIONS. SEE SECTION 150.
- 2) ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER, ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
- 3) ALL PORTABLE MOUNTED SIGNS SHALL BE MOUNTED SO THAT THE BOTTOM OF THE SIGN WILL BE BETWEEN 1' AND 5' ABOVE THE PAVEMENT EDGE. ALL TEMPORARY POST MOUNTED SIGNS SHALL BE MOUNTED SO THAT THE BOTTOM OF THE SIGN SHALL BE 5" MINIMUM ABOVE PAVEMENT EDGE OR 7" MINIMUM, IF ROADWAY CONDITIONS DICTATE.
- 4) WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMP OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMP/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
- 5) FOR NIGHT TIME OPERATIONS ALL CHANNELIZING DEVICES IN ADVANCE OF AND THROUGHOUT THE WORK AREA SHALL BE TYPE I BARRICADES OR STRIPED DRUMS AND SHALL HAVE TYPE "C" YELLOW STEADY BURNING LIGHTS. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
- 6) SIGNS SHOWN HERE ARE IN ADDITION TO ALL ADVANCE WARNING SIGNS REQUIRED IN SECTION 150. WARNING FLAGS OR AND FLASHING LIGHTS ON SIGNS SHALL BE AS REQUIRED BY SECTION 150.
- 7) FLAGGERS SHALL BE PROVIDED AS NECESSARY TO PROHIBIT WRONG DIRECTION OF TRAFFIC THROUGH WORK AREAS AT ALL FEDERAL OR STATE ROUTE INTERSECTIONS AND AT COUNTY ROADS OR MAJOR DRIVEWAY INTERSECTIONS WITH SIGNIFICANT ENTERING TRAFFIC.
- 8) WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED OR LOCATED A MINIMUM OF 30' FROM THE PAVEMENT EDGE AND PLACED SO THE MESSAGE IS NOT VISIBLE TO THE MOTORIST.
- 9) PAYMENT FOR TRAFFIC CONTROL SHALL BE PER SECTION 150.
- 10) SAFETY FENCING SHALL BE IN PLACE IN ALL WORK AREAS AT THE END OF EACH DAY.
- 11) SAFETY FENCING SHALL HAVE SIGNS POSTED ON FENCING THAT READS "CONSTRUCTION WORK SITE KEEP OUT",

LEGEND

-  TYPE "A" SINGLE DIRECTION FLASHING LIGHT
-  18"x18" FLUORESCENT RED/ORANGE OR ORANGE/RED WARNING FLAG
-  PORTABLE MOUNTED SIGN
-  TEMPORARY POST MOUNTED SIGN
-  FLAGGER WITH STOP/SLOW PADDLE
-  TRAFFIC CONE - 28" MIN.
-  WORK AREA
-  SAFETY FENCE

| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS | REVISIONS | |
|-------|--------------------|-----------|--------------|-----------|-------------|
| GA | CSHPP-0001-00(562) | 3 | 19 | DATE | DESCRIPTION |



Rakestraw & Associates
 Planning • Design • Environmental
 23 TY TY OMEGA RD.
 TIFTON, GA. 31794
 Phone: 229.382.0003

GEORGIA
 REGISTERED PROFESSIONAL ENGINEER
 No. 00905
 Stephen T. Rakestraw
 10-7-09

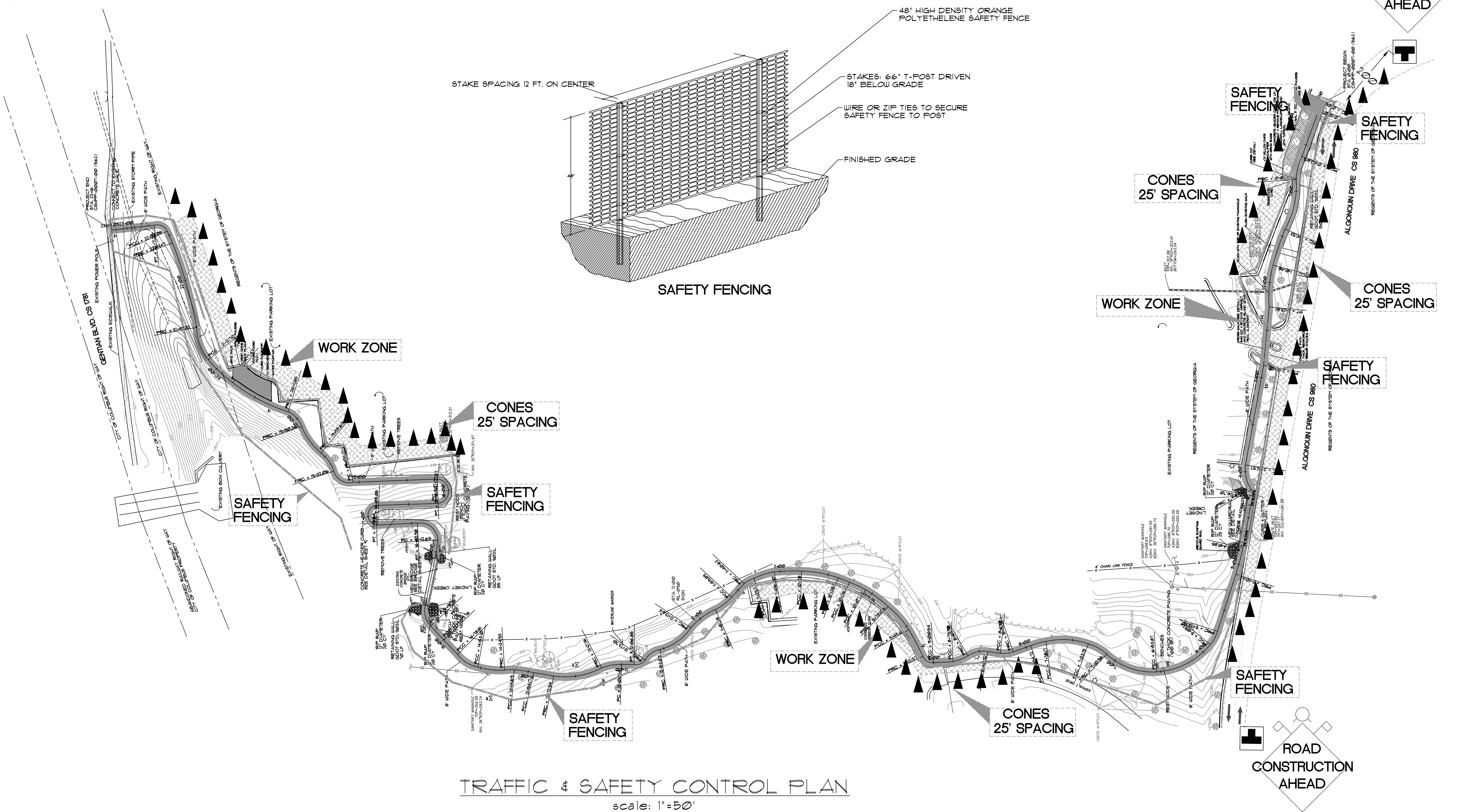
PROJECT:
 MULT-USE TRAIL
 COLUMBUS, GA
 CLIENT:
 COLUMBUS STATE
 UNIVERSITY

SHEET TITLE:
 SAFETY & TRAFFIC
 CONTROL PLAN

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DATE: 10/09
 SCALE: 1" = 50'

SHEET NO.:
3
 of 19



TRAFFIC & SAFETY CONTROL PLAN
 scale: 1" = 50'

SANITARY MANHOLE
TOP=296.70
A) INV. 8" RCP=292.59
B) INV. 8" RCP=292.59

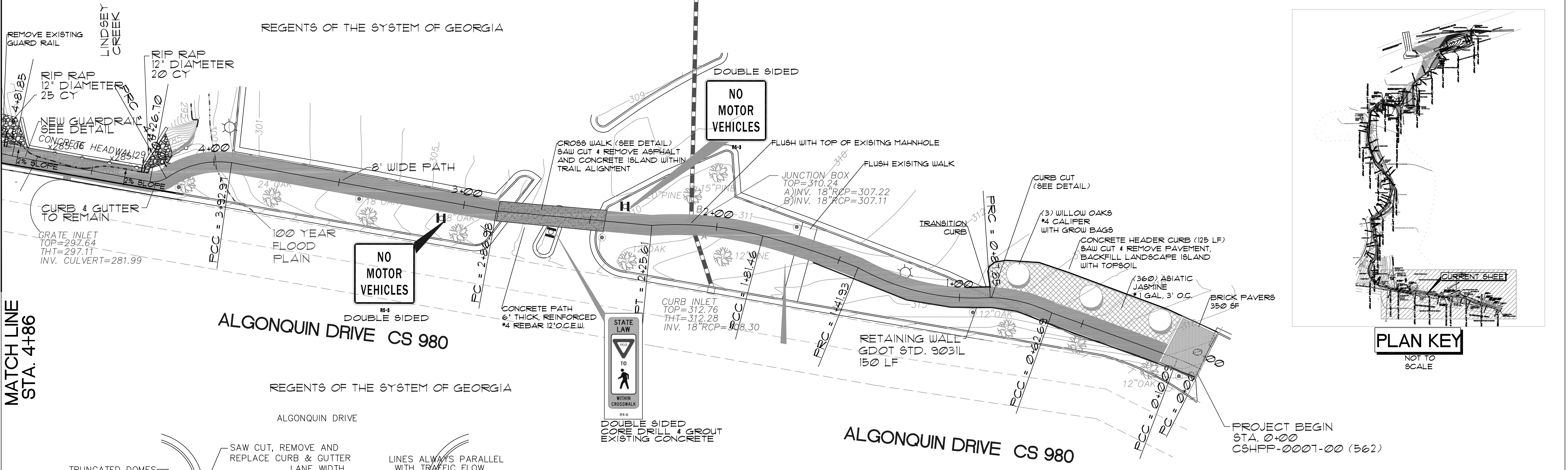
EXISTING PARKING LOT

MULTI-USE TRAIL PLAN

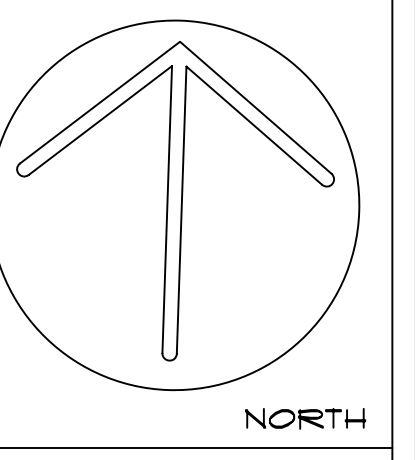
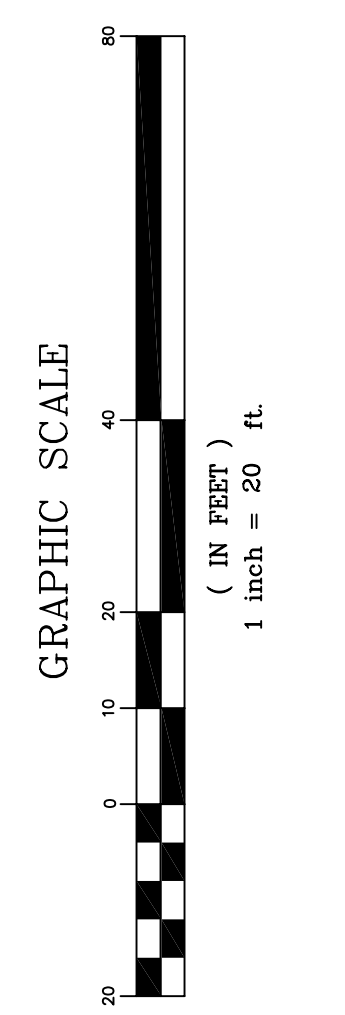
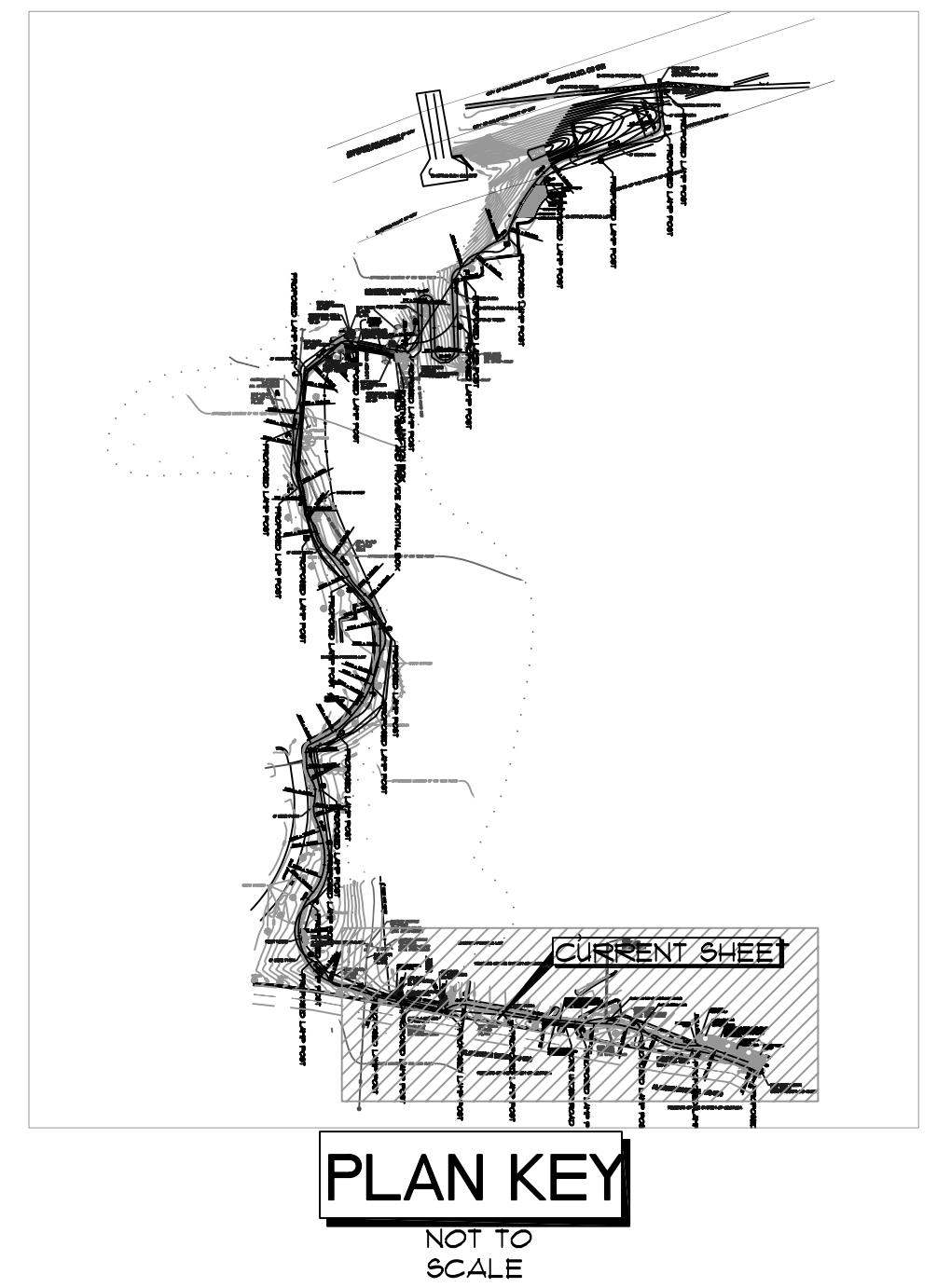
SCALE 1" = 20'

| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|-------|--------------------|-----------|--------------|
| GA | CSHPP-0001-00(562) | 4 | 19 |

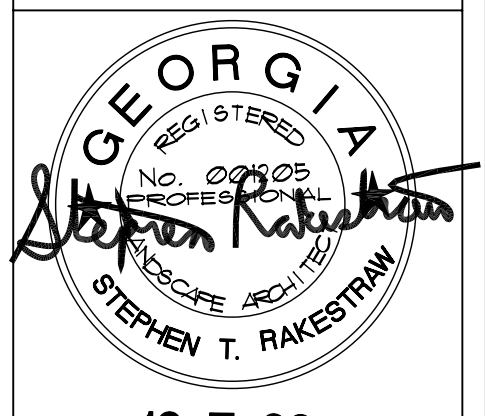
| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



MATCH LINE
STA. 4+86



Rakestraw & Associates
Planning • Design • Environmental
23 TY TY OMEGA RD.
TIFFIN, GA. 31794
Phone: 229.382.0003



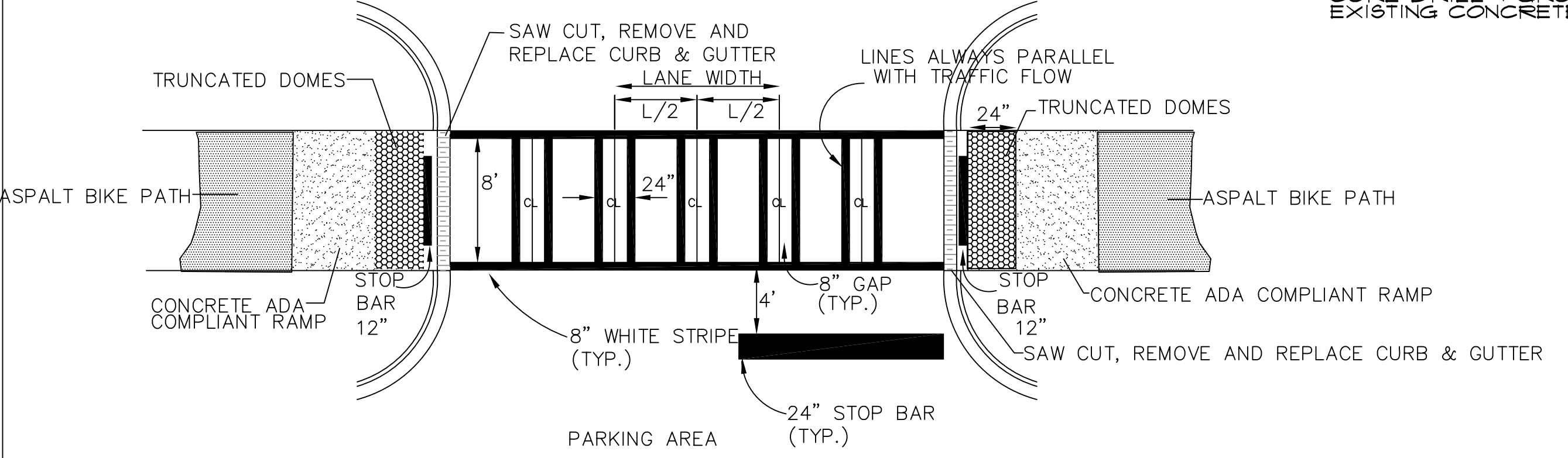
PROJECT:
MULTI-USE TRAIL
COLUMBUS, GA
CLIENT:
COLUMBUS STATE
UNIVERSITY

SHEET TITLE:
TRAIL
PLAN & PROFILE

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DATE: 10/09
SCALE: 1" = 20'

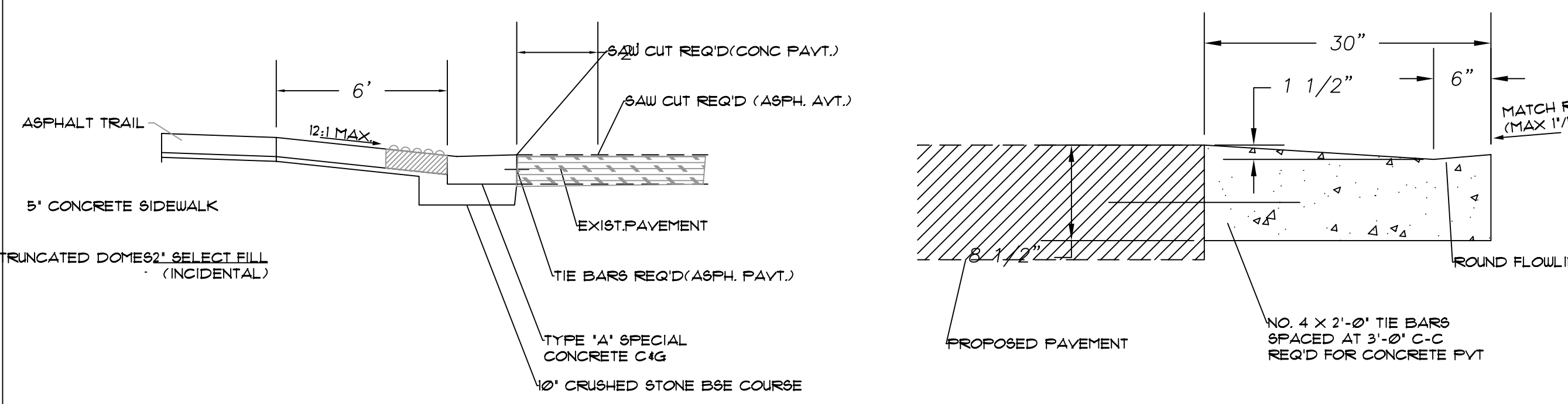
SHEET NO.:
4
OF 19



CROSSWALK STRIPING DETAIL

SEE GEORGIA DEPARTMENT OF TRANSPORTATION SPECIAL DETAIL FOR T-11A LATEST REVISION
SEE GEORGIA DEPARTMENT OF TRANSPORTATION SPECIAL DETAIL FOR A-3 LATEST REVISION
TRUNCATED DOME PAVERS ARE TO MATCH EXISTING

SEE WEBSITE:
<http://tomcat2.dot.state.ga.us/stds-dtls/edtls.jsp>



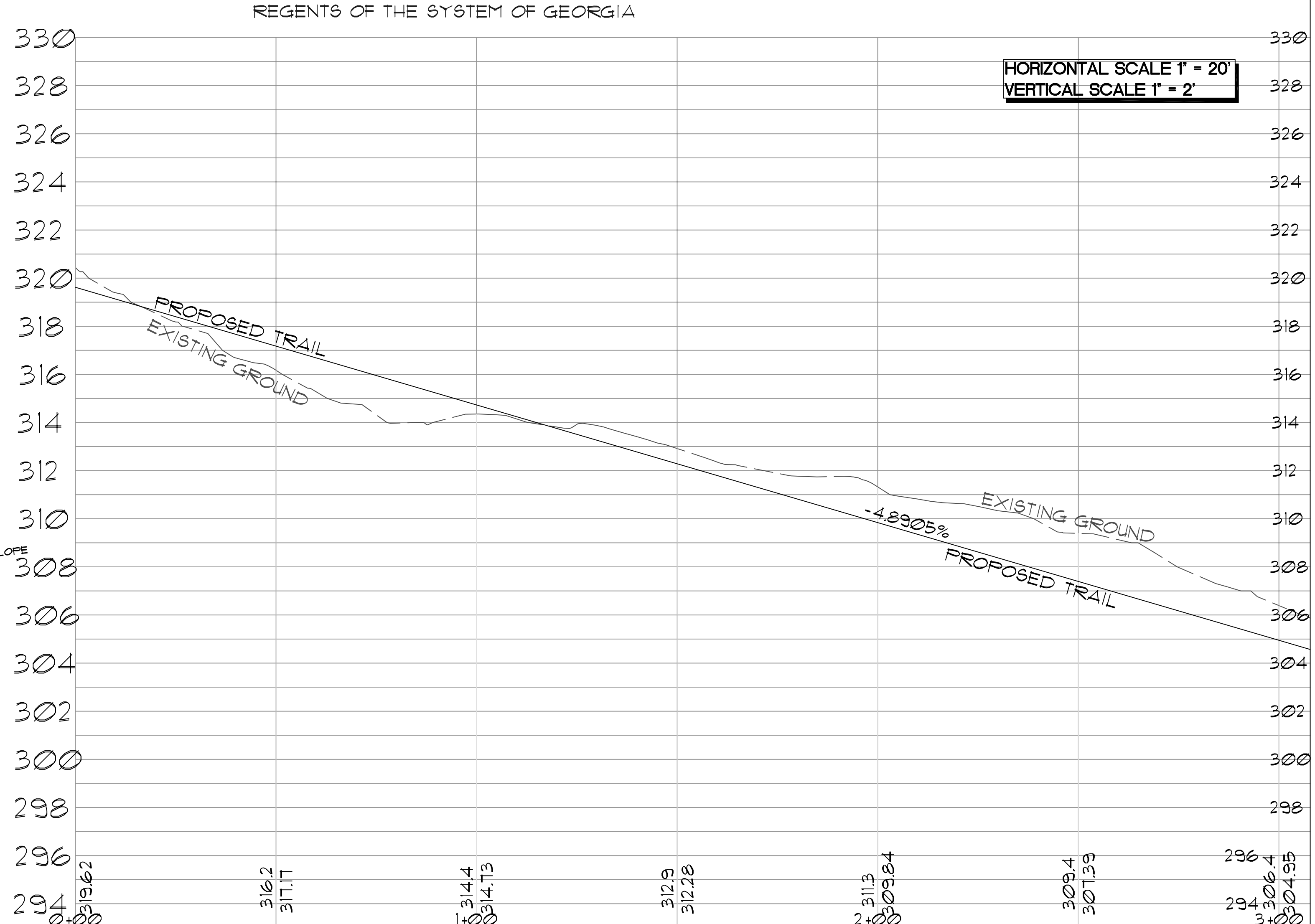
BIKE PATH RAMP

NOT TO SCALE

TYPE "A" SPECIAL CURB & GUTTER

NOT TO SCALE

BIKE RAMP CURB CUT DETAIL

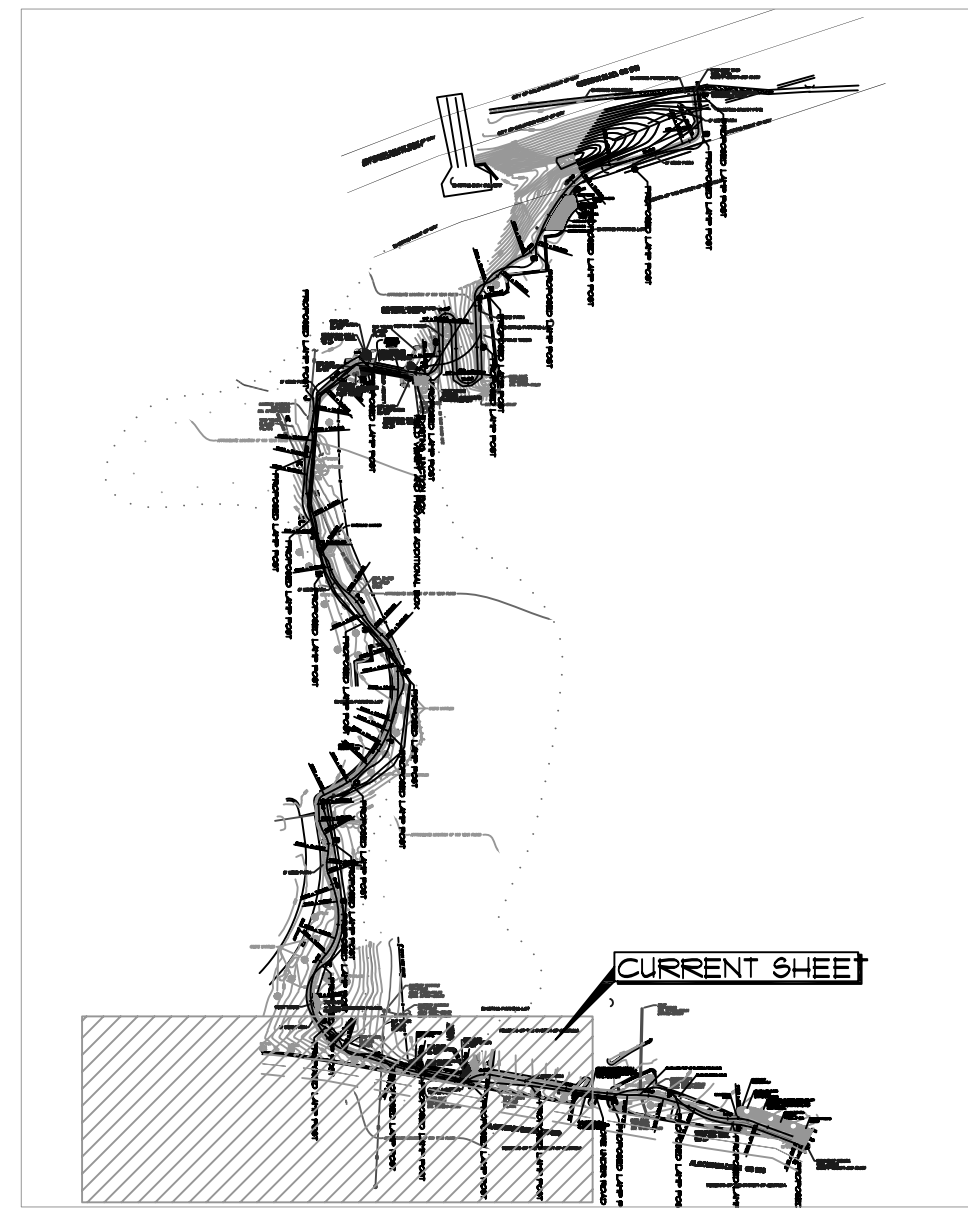


HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 2'

MATCH LINE
STA. 6+30

MULTI-USE TRAIL PLAN

SCALE 1" = 20'

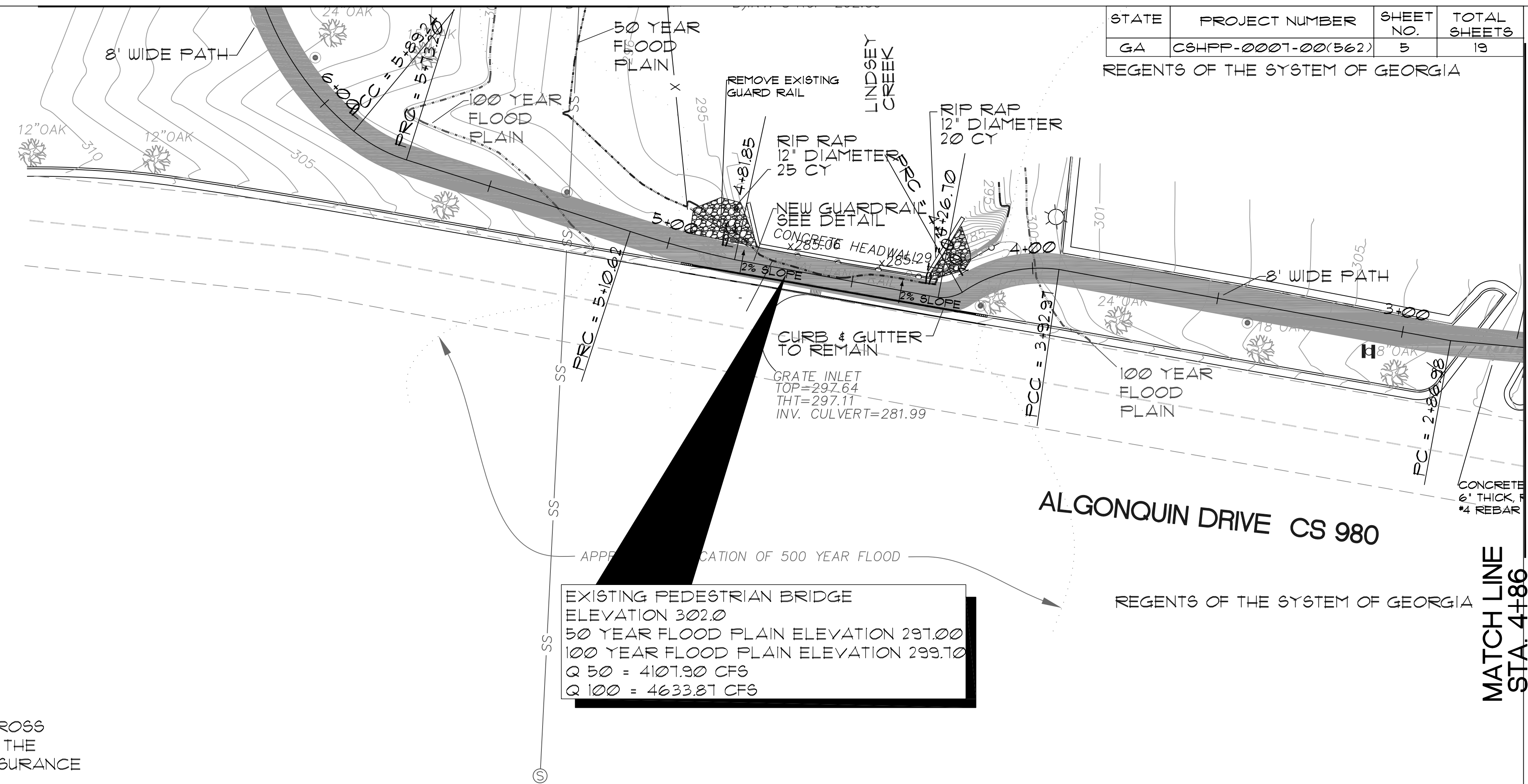


PLAN KEY

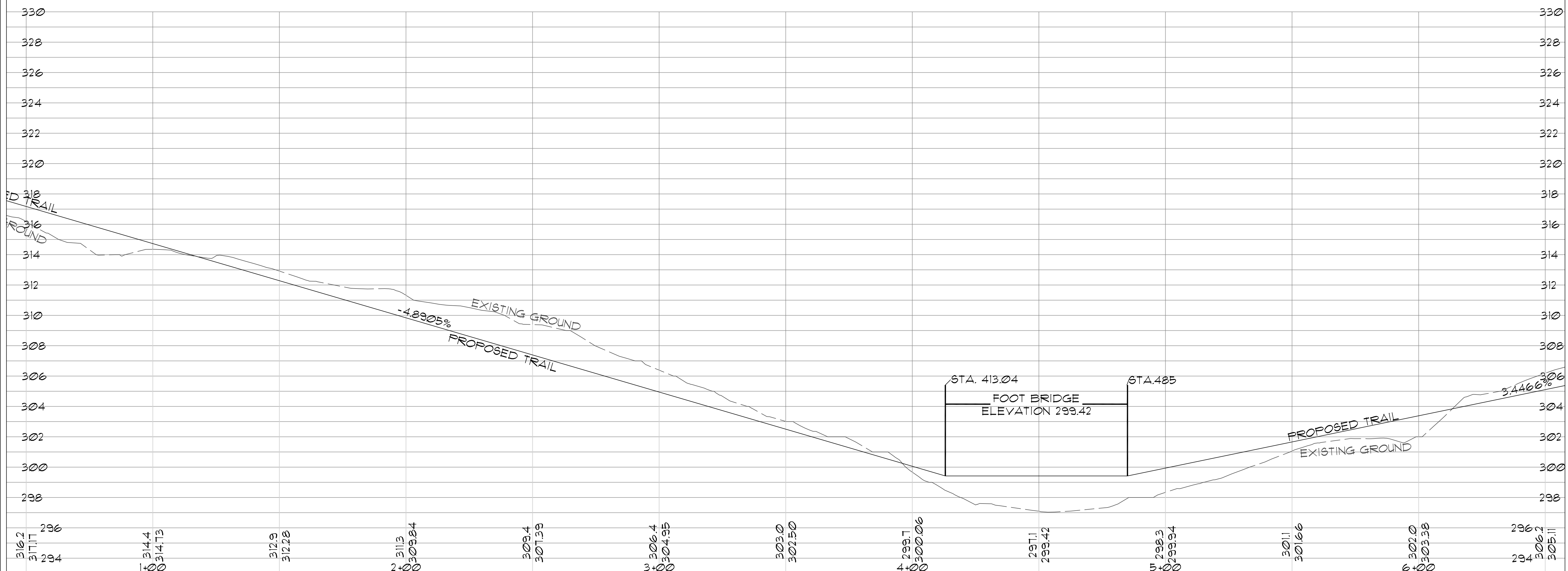
NOT TO SCALE

HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 2'

FLOODPLAIN ELEVATION WERE BASED OF CROSS SECTION ELEVATIONS OF LINDSEY CREEK IN THE SEPTEMBER 5, 2001 ISSUE OF THE FLOOD INSURANCE STUDY, VOLUME 1 OF 2, CITY OF COLUMBUS, MUSCOGEE COUNTY, GEORGIA. COMMUNITY #135158, FLOOD INSURANCE STUDY #135158V001A



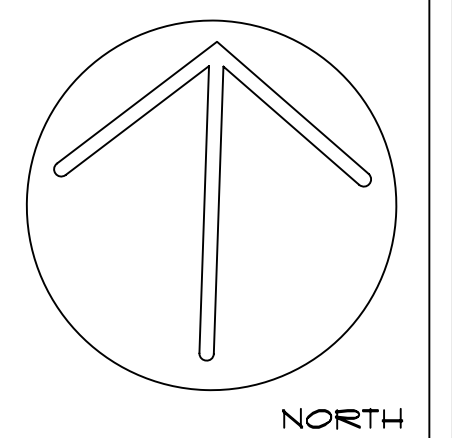
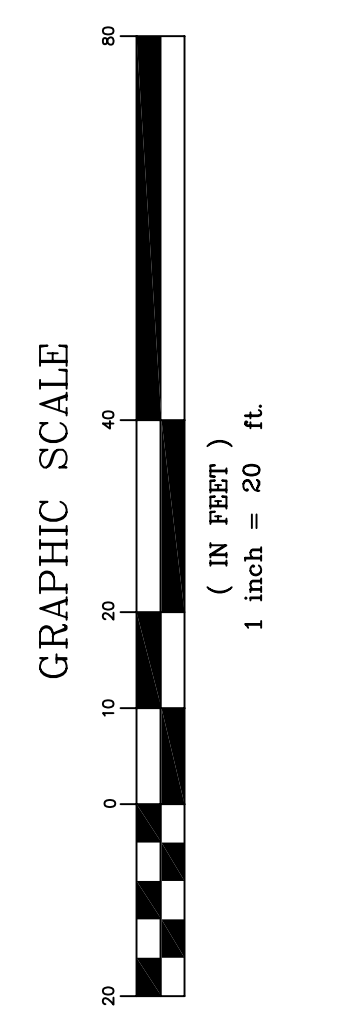
EXISTING PEDESTRIAN BRIDGE
ELEVATION 302.0
50 YEAR FLOOD PLAIN ELEVATION 297.00
100 YEAR FLOOD PLAIN ELEVATION 299.70
Q 50 = 4107.90 CFS
Q 100 = 4633.87 CFS



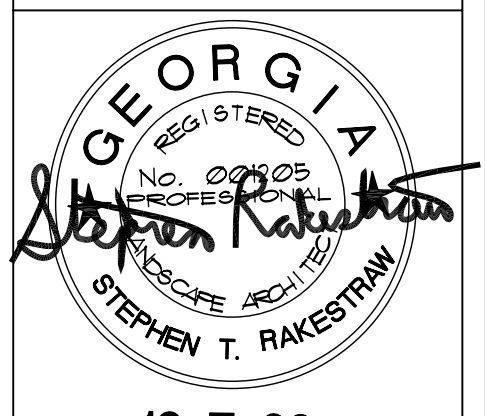
| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|-------|--------------------|-----------|--------------|
| GA | CSHPP-0001-00(562) | 5 | 19 |

REGENTS OF THE SYSTEM OF GEORGIA

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



Rakestraw & Associates
Planning • Design • Environmental
23 TY TY OMEGA RD.
TIFTON, GA. 31794
Phone: 229.382.0003



PROJECT:
MULT-USE TRAIL
COLUMBUS, GA
CLIENT:
COLUMBUS STATE UNIVERSITY

SHEET TITLE:
TRAIL
PLAN & PROFILE

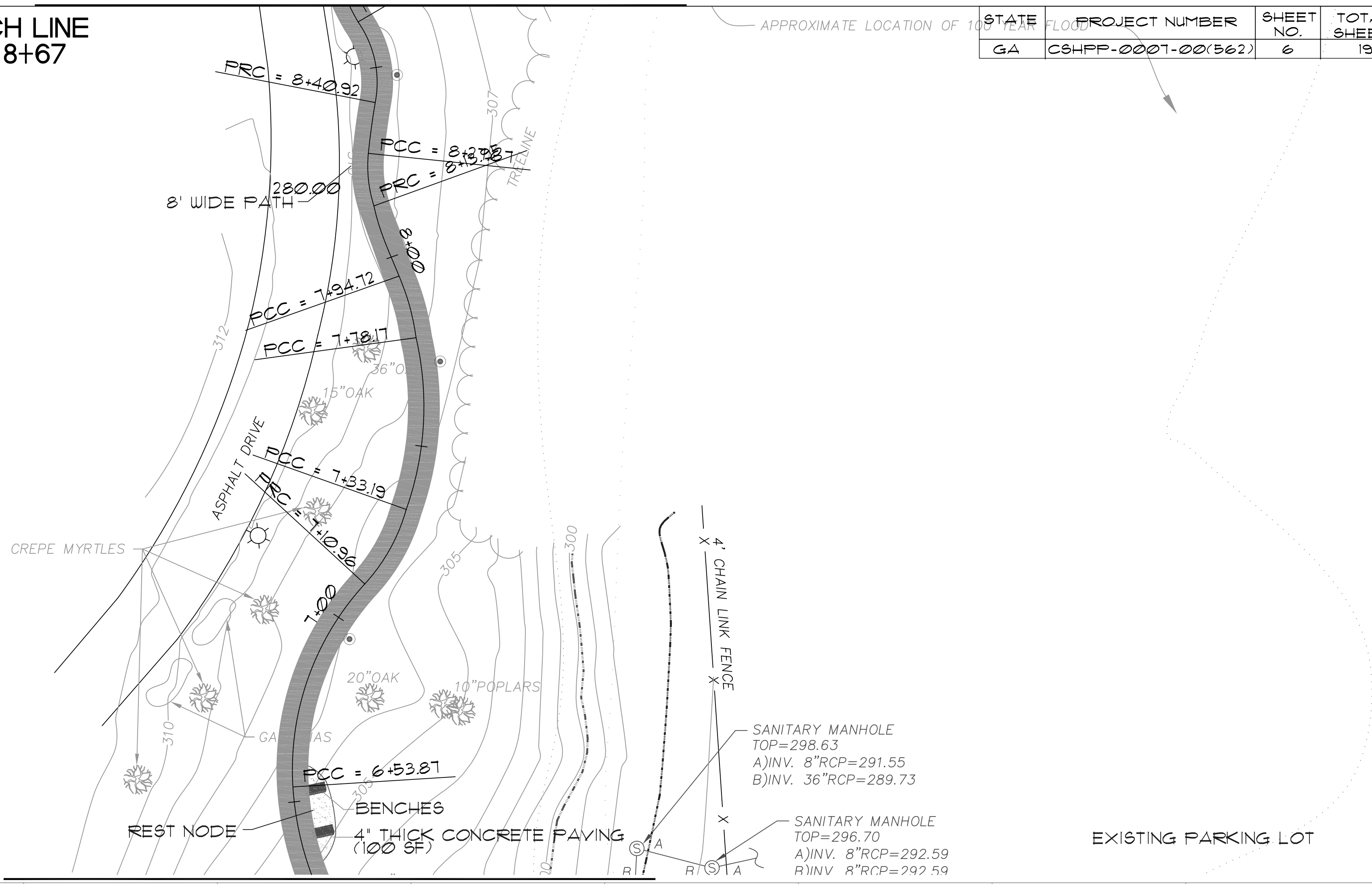
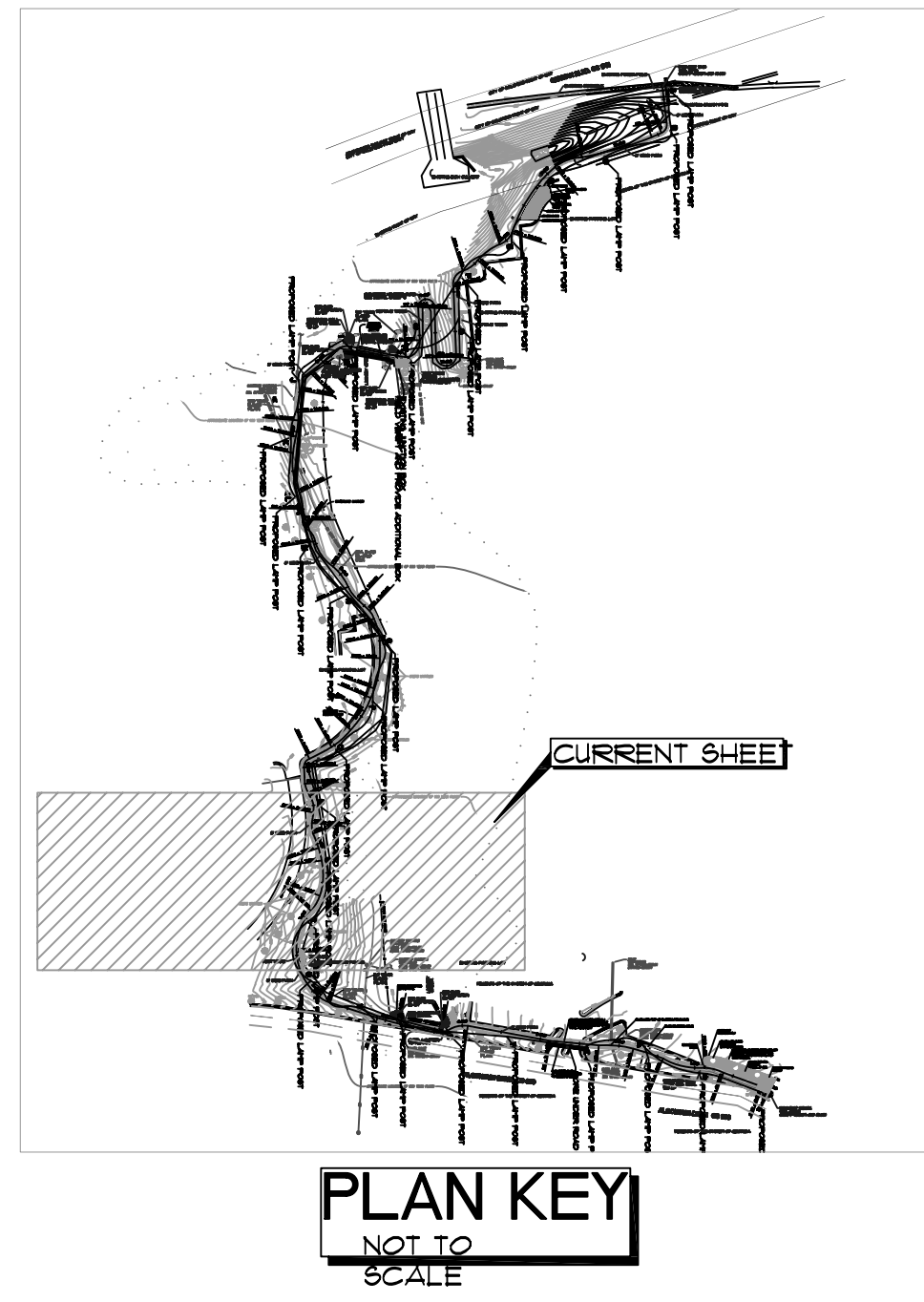
© 2009 RAKESTRAW & ASSOCIATES, INC.

DATE: 10/09
SCALE: 1" = 20'

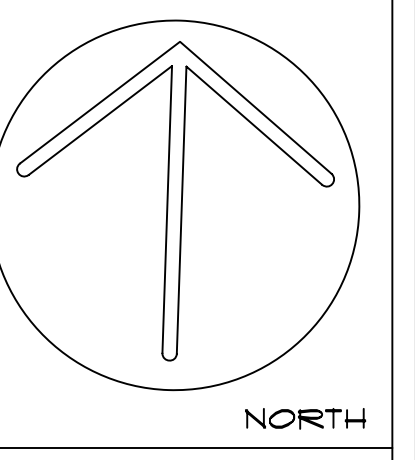
SHEET NO.:
5
OF 19

MATCH LINE
STA. 8+67

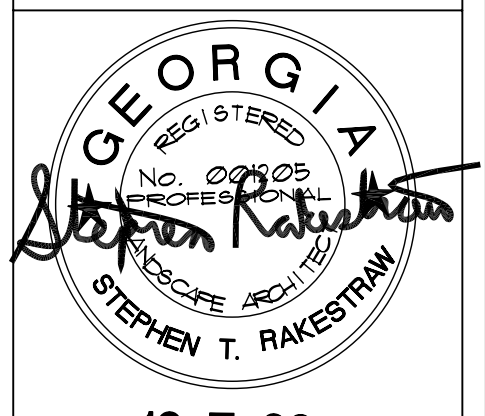
MULTI-USE TRAIL PLAN
SCALE 1" = 20'



| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|-------|--------------------|-----------|--------------|
| GA | CSHPP-0001-00(562) | 6 | 19 |



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TIFTON, GA. 31794
Phone: 229.382.0003



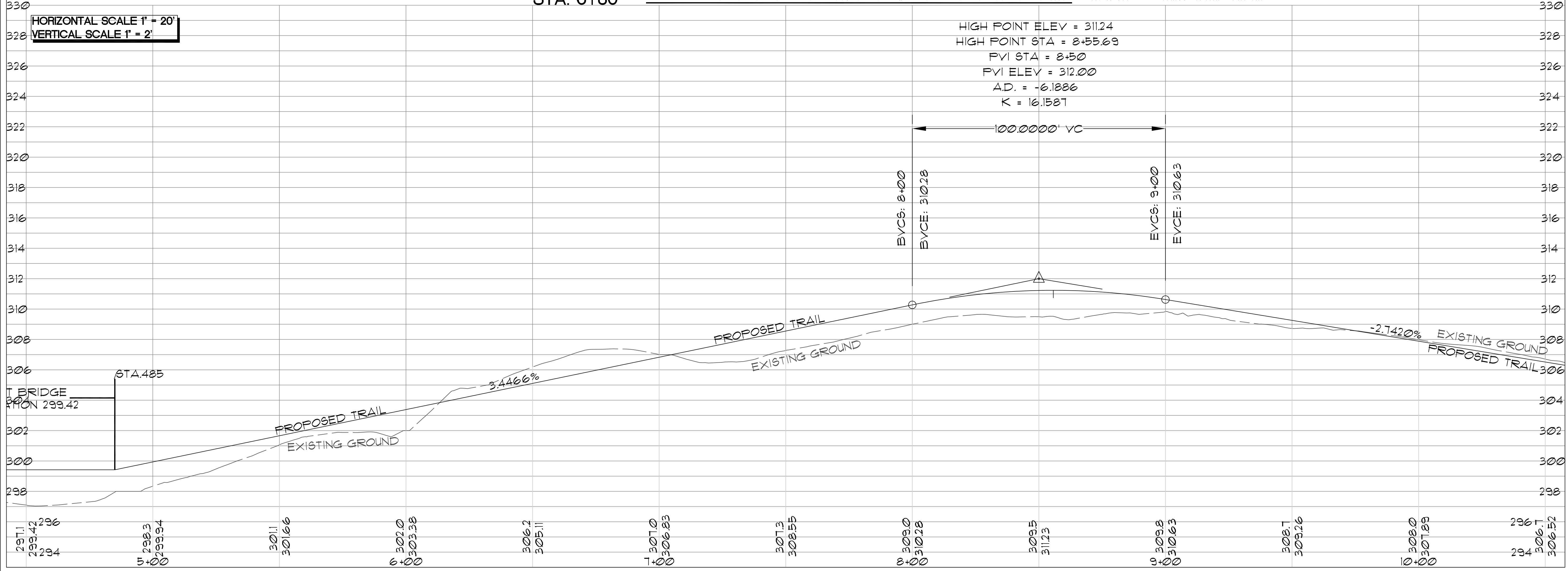
PROJECT:
MULT-USE TRAIL
COLUMBUS, GA
CLIENT:
COLUMBUS STATE
UNIVERSITY

SHEET TITLE:
TRAIL
PLAN & PROFILE

DATE: 10/09
SCALE: 1" = 20'

SHEET NO.:
6
of 19

MATCH LINE
STA. 6+30



HIGH POINT ELEV = 311.24
HIGH POINT STA = 8+55.69
PVI STA = 8+50
PVI ELEV = 312.00
A.D. = -6.1886
K = 16.1581

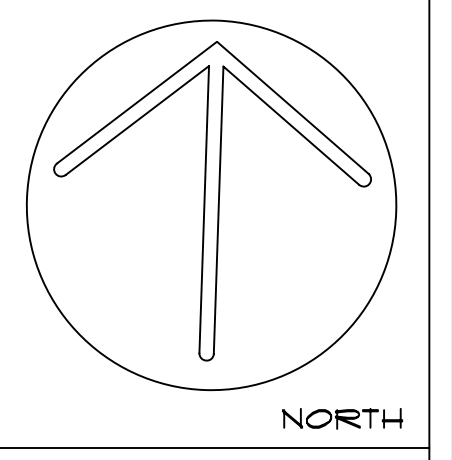
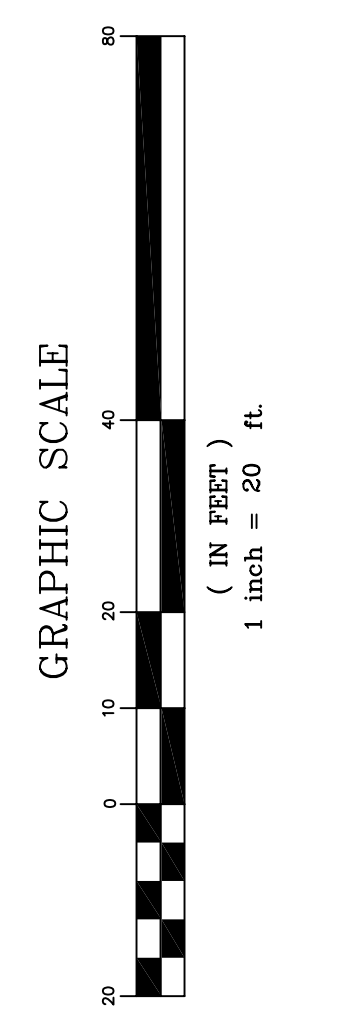
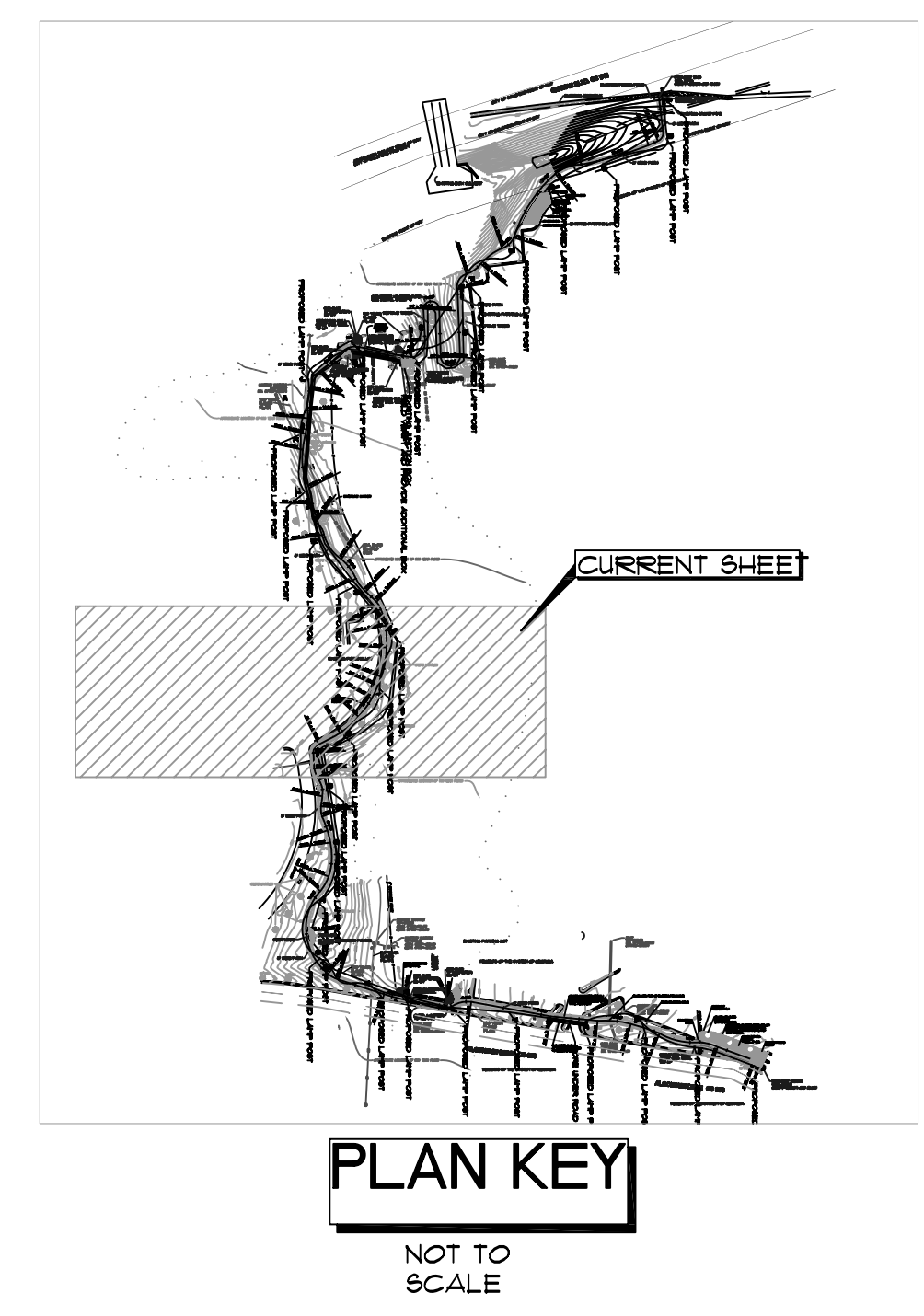
100.0000' VC
BYCS: 8+00
BYCE: 310.28
EVCs: 9+00
EVCE: 310.63

HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 2'

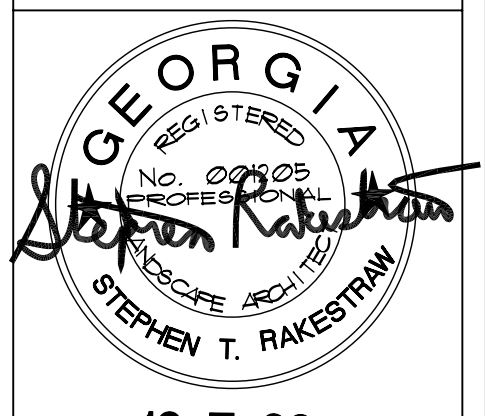
| | | | |
|-------|--------------------|-----------|--------------|
| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
| GA | CSHPP-0001-00(562) | 7 | 19 |

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |

MULTI-USE TRAIL PLAN
SCALE 1" = 20'



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TIFTON, GA. 31794
Phone: 229.382.0009



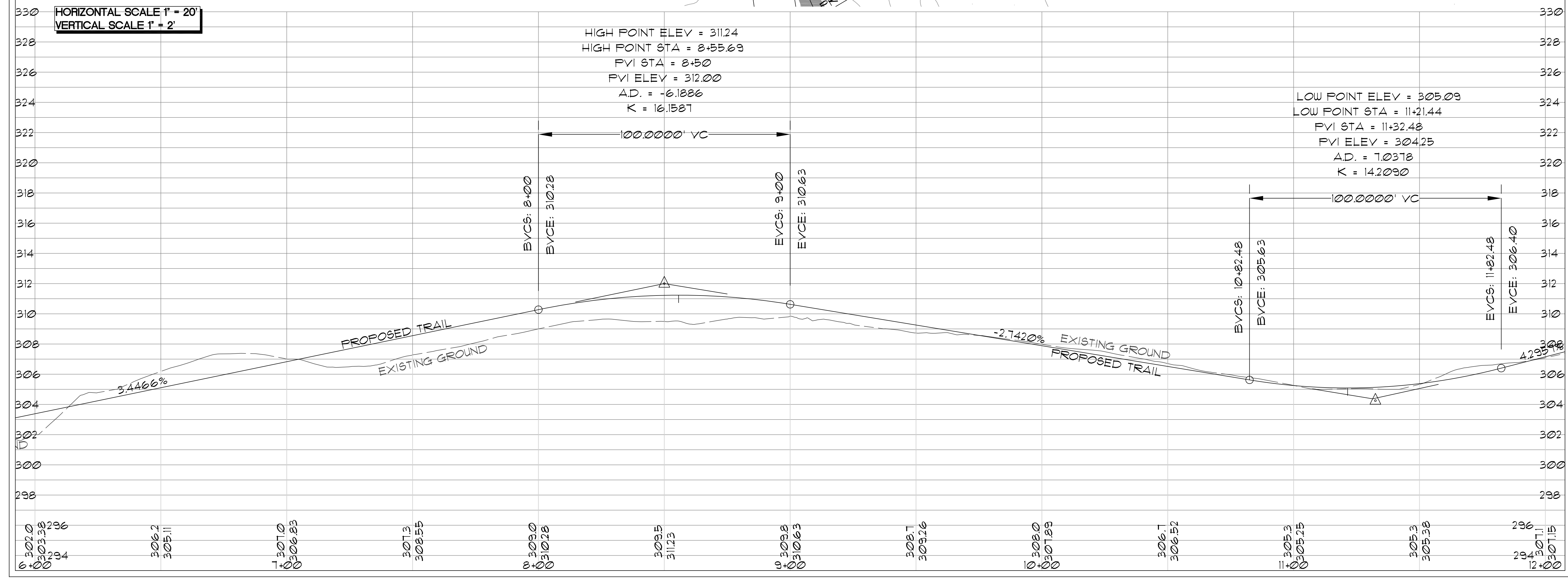
10-7-09
PROJECT:
MULT-USE TRAIL
COLUMBUS, GA
CLIENT:
COLUMBUS STATE
UNIVERSITY

SHEET TITLE:
TRAIL
PLAN & PROFILE

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DATE: 10/09
SCALE: 1" = 20'

SHEET NO.:
7
OF 19



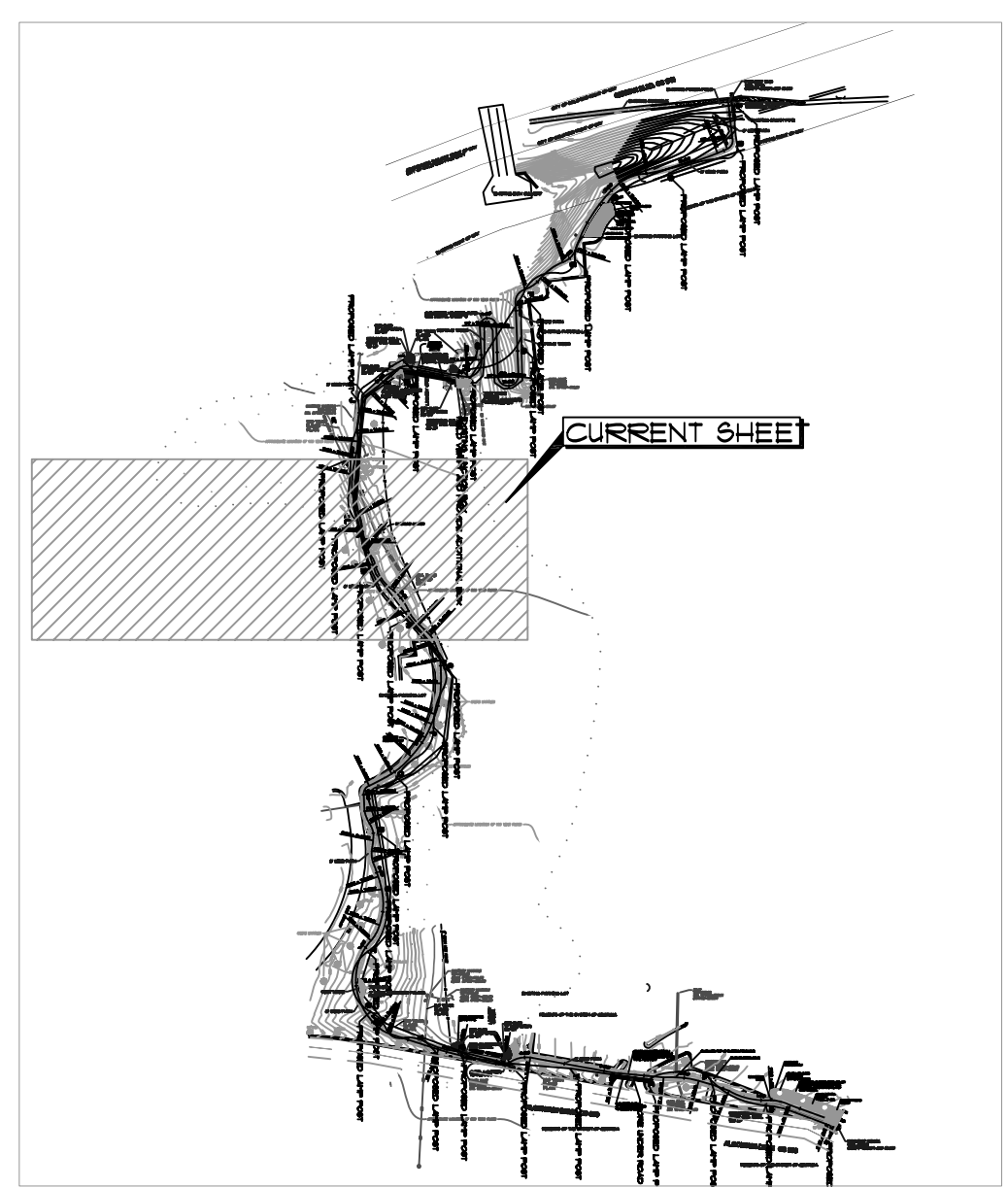
HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 2'

MULTI-USE TRAIL PLAN
SCALE 1" = 20'

MATCH LINE
STA. 13+97

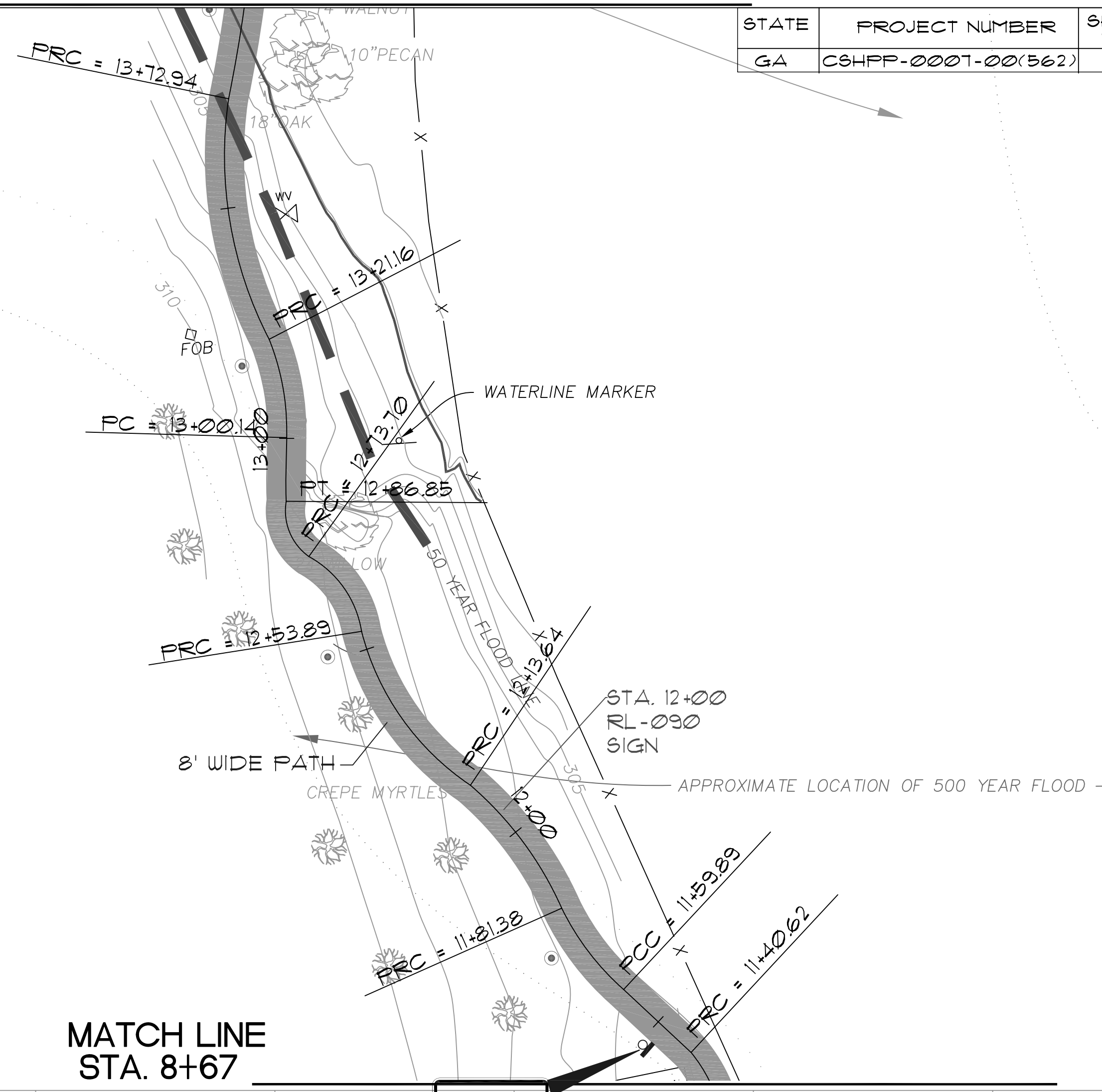
| | | | |
|-------|--------------------|-----------|--------------|
| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
| GA | CSHPP-0001-00(562) | 8 | 19 |

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |



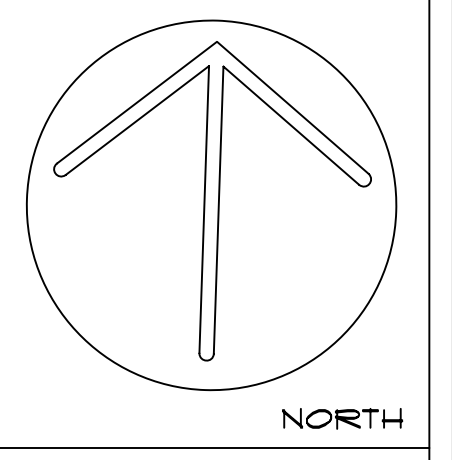
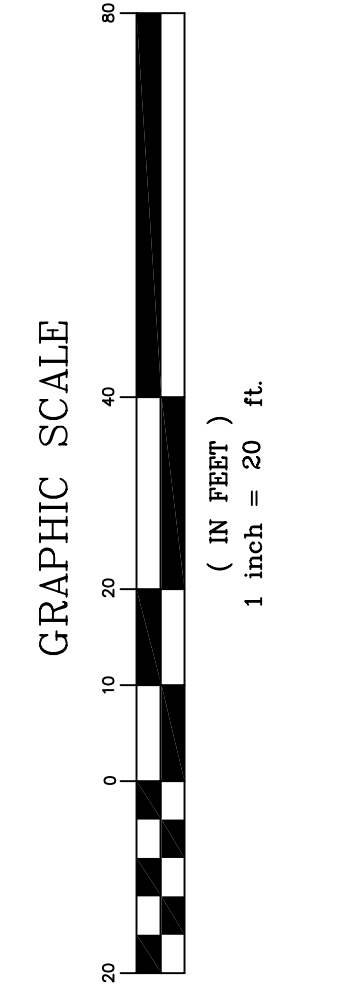
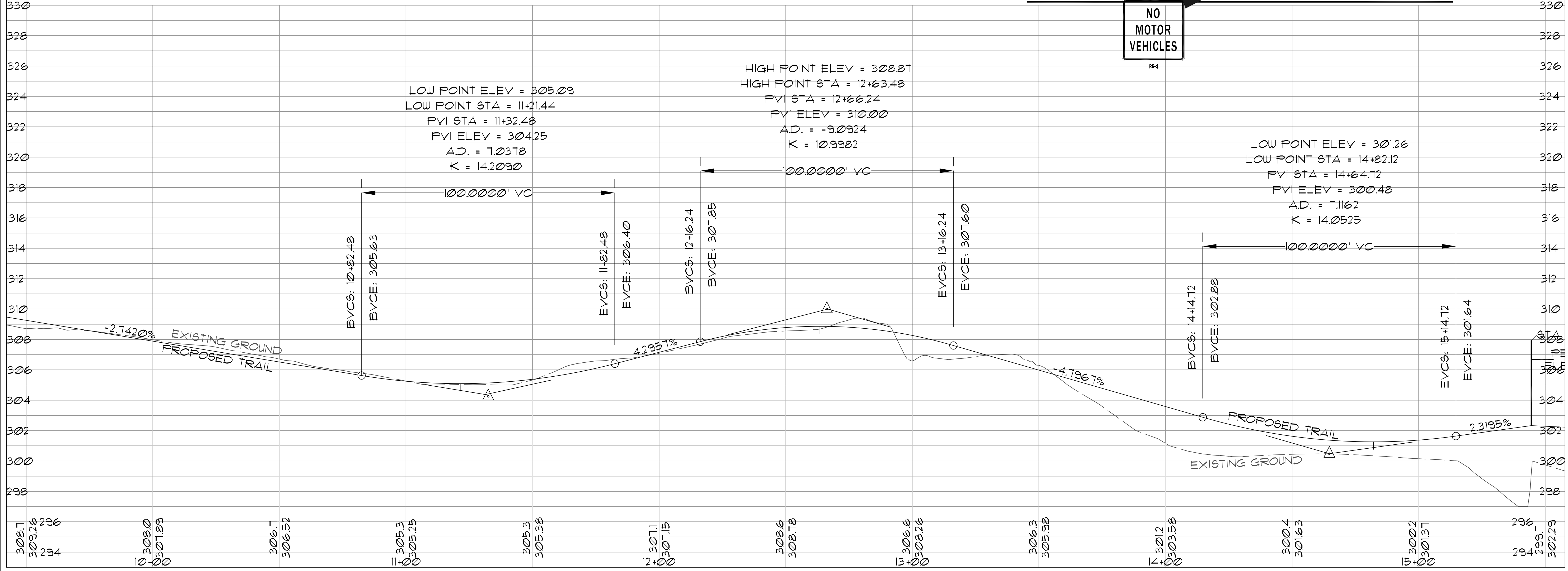
PLAN KEY
NOT TO SCALE

HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 2'

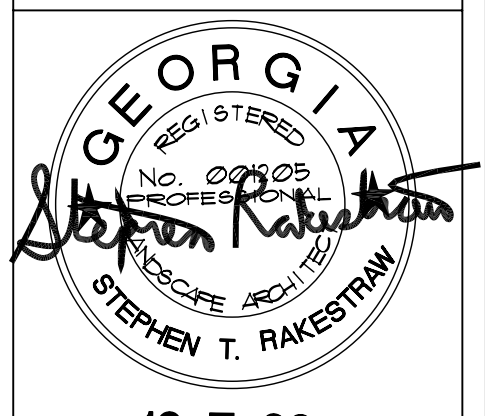


MATCH LINE
STA. 8+67

NO MOTOR VEHICLES



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TIFTON, GA. 31794
Phone: 229.382.0009



PROJECT:
MULTI-USE TRAIL
COLUMBUS, GA
CLIENT:
COLUMBUS STATE UNIVERSITY

SHEET TITLE:
TRAIL PLAN & PROFILE

DATE: 10/09
SCALE: 1" = 20'

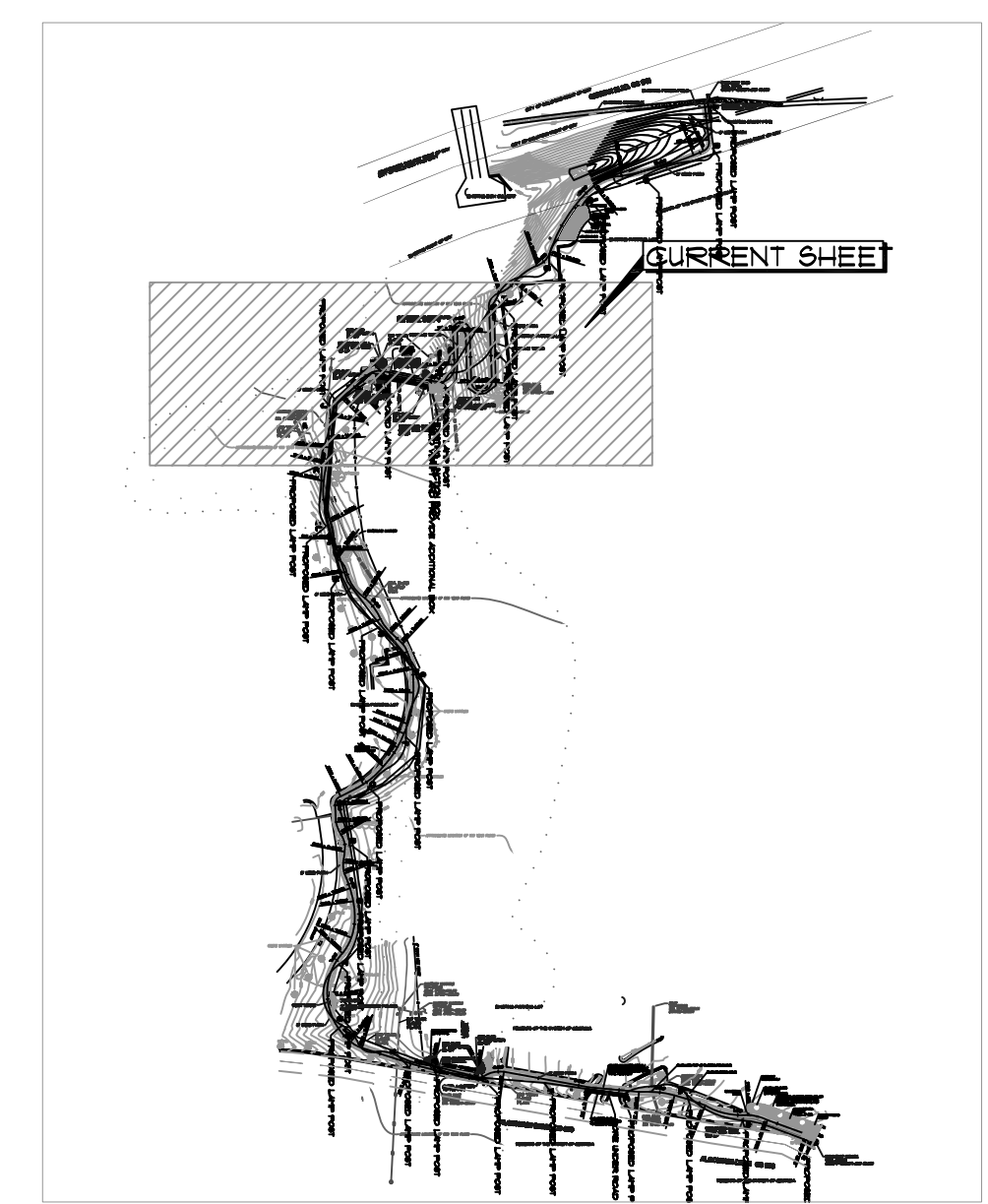
SHEET NO.:
8
OF 19

MULTI-USE TRAIL PLAN
SCALE 1" = 20'

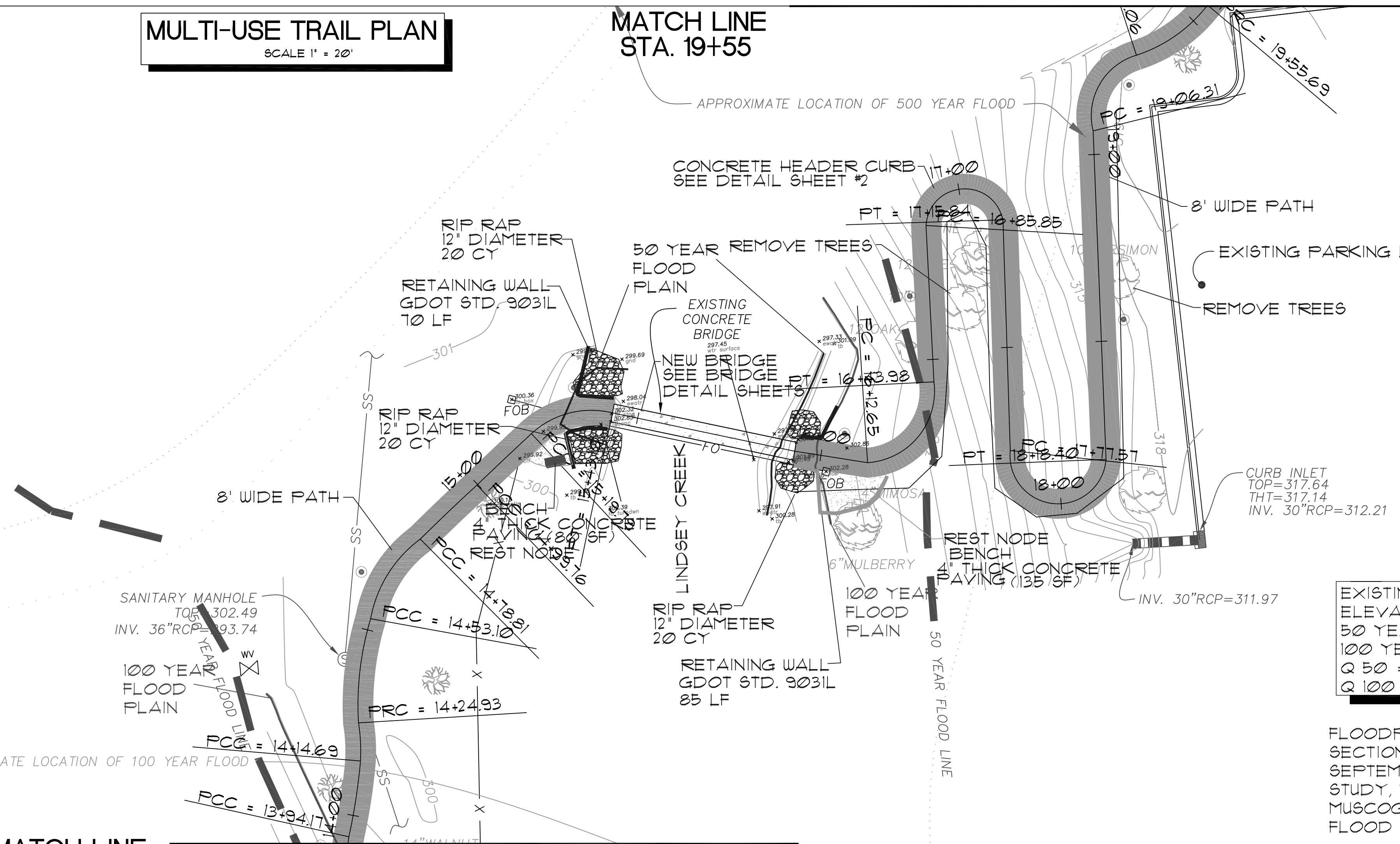
MATCH LINE
STA. 19+55

| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|-------|--------------------|-----------|--------------|
| GA | CSHPP-000T-00(562) | 9 | 19 |

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



PLAN KEY
NOT TO SCALE

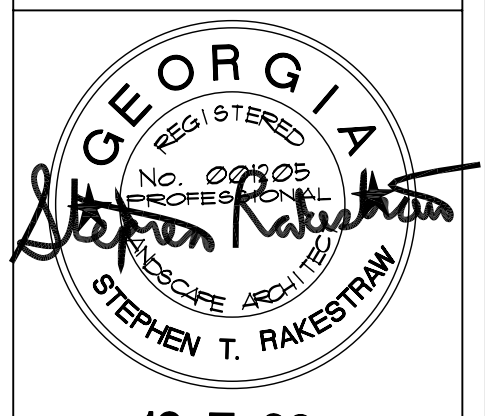
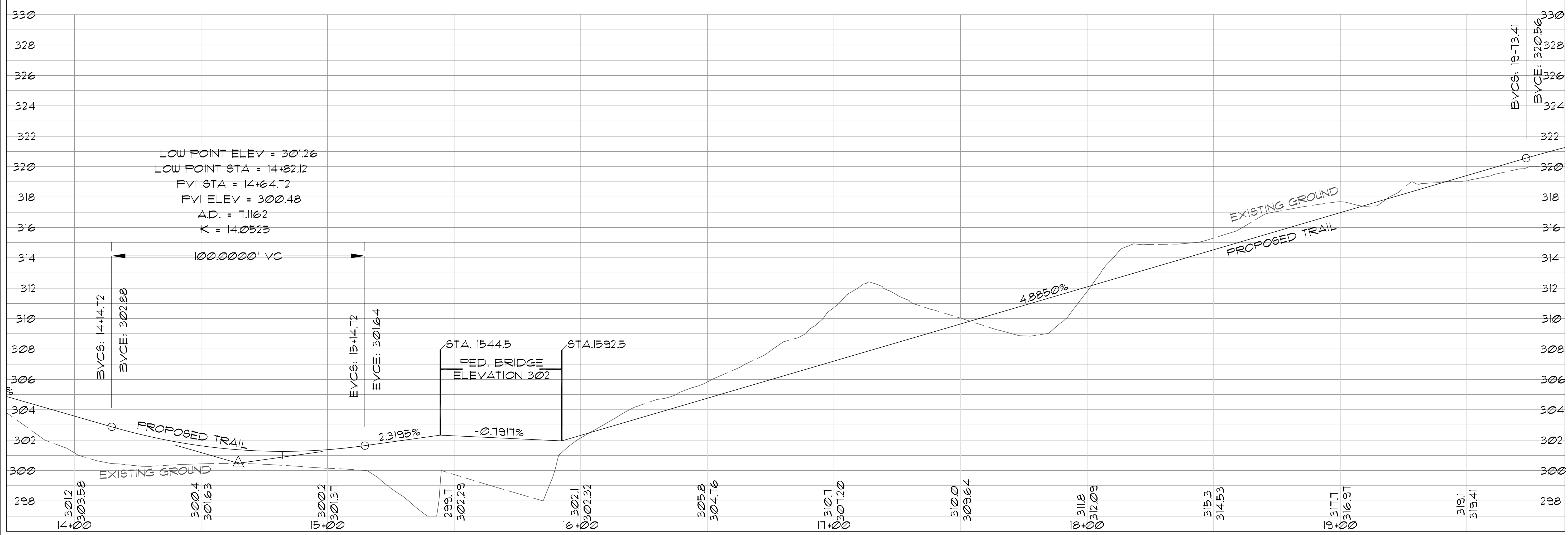


EXISTING PEDESTRIAN BRIDGE
ELEVATION 302.0
50 YEAR FLOOD PLAIN ELEVATION 299.40
100 YEAR FLOOD PLAIN ELEVATION 302.10
Q 50 = 4107.90 CFS
Q 100 = 4633.81 CFS

FLOODPLAIN ELEVATIONS WERE BASED ON CROSS SECTION ELEVATIONS OF LINDSEY CREEK IN THE SEPTEMBER 5, 2001 ISSUE OF THE FLOOD INSURANCE STUDY, VOLUME 1 OF 2, CITY OF COLUMBUS, MUSCOGEE COUNTY, GEORGIA. COMMUNITY #135158, FLOOD INSURANCE STUDY #135158V001A

HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 2'

MATCH LINE
STA. 13+97

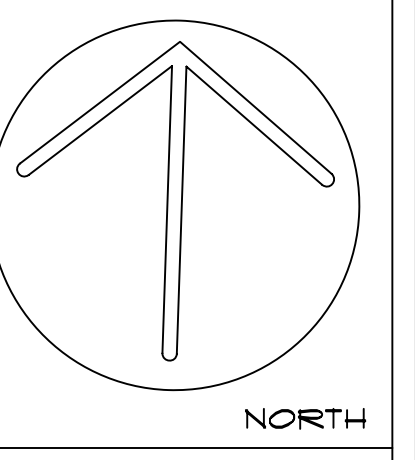
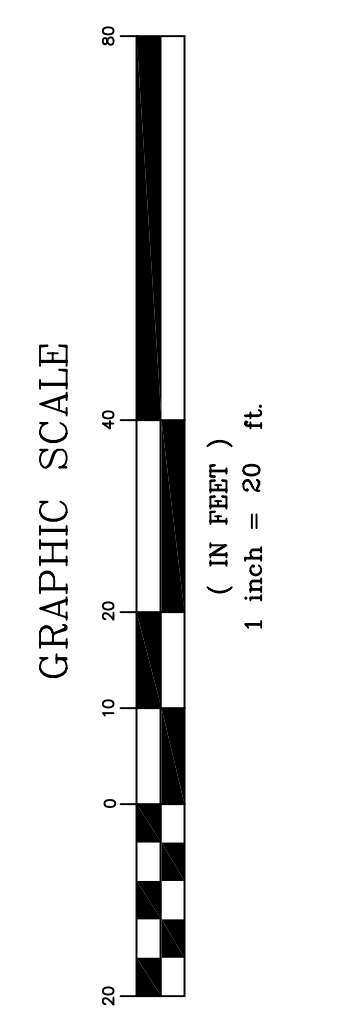


10-7-09
PROJECT:
MULTI-USE TRAIL
COLUMBUS, GA
CLIENT:
COLUMBUS STATE
UNIVERSITY

SHEET TITLE:
TRAIL
PLAN & PROFILE

DATE: 10/09
SCALE: 1" = 20'

SHEET NO.:
9
OF 19

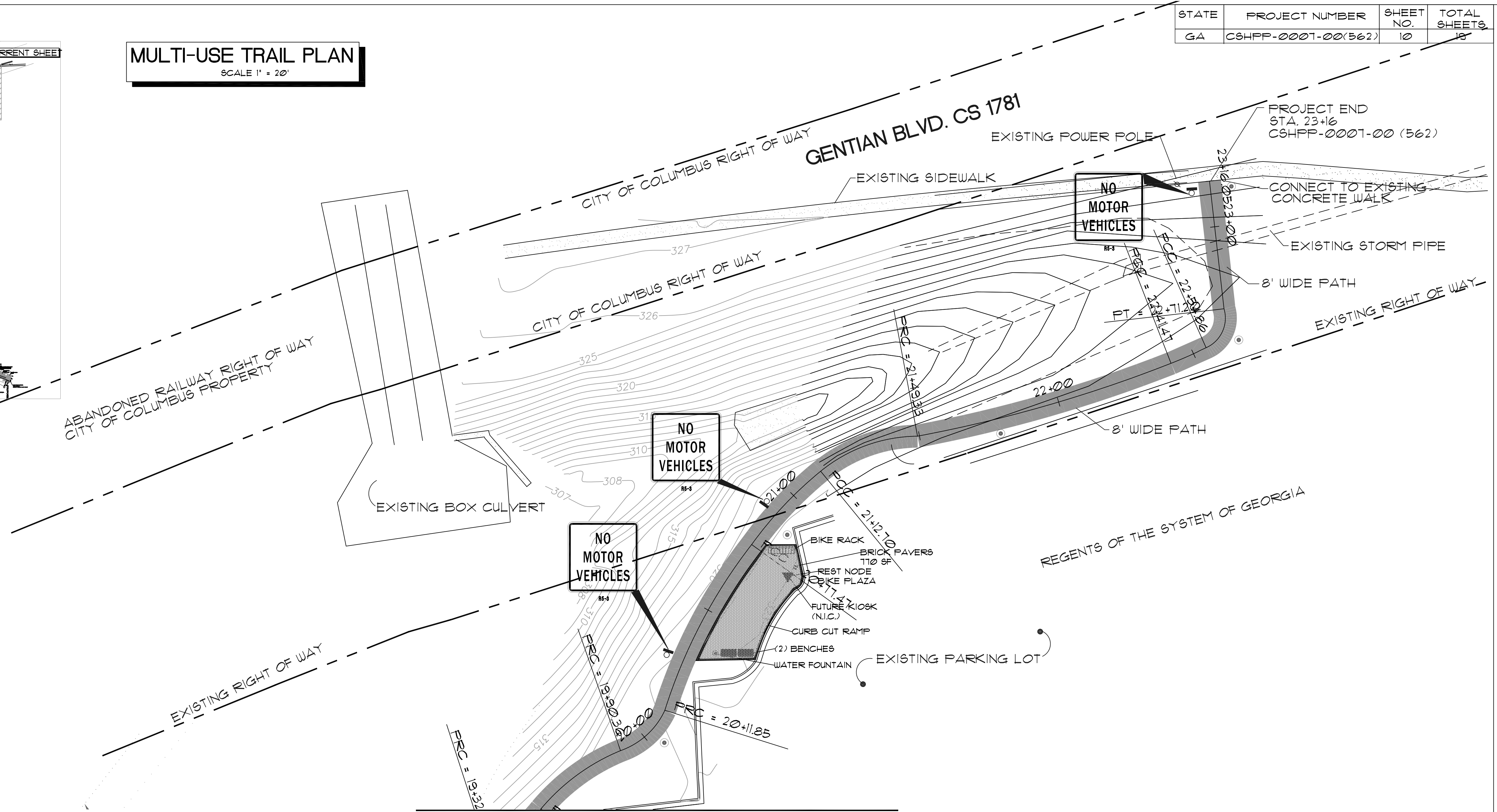


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TIFTON, GA. 31794
Phone: 229.382.0003

| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|-------|--------------------|-----------|--------------|
| GA | CSHFP-0001-00(562) | 10 | 10 |

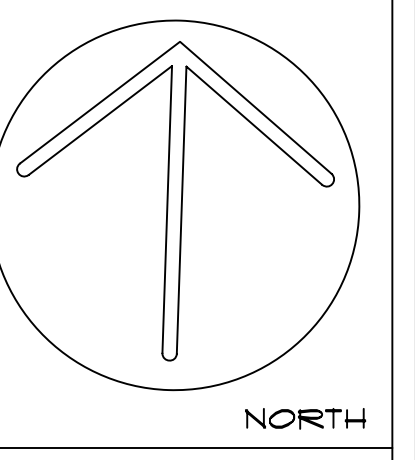
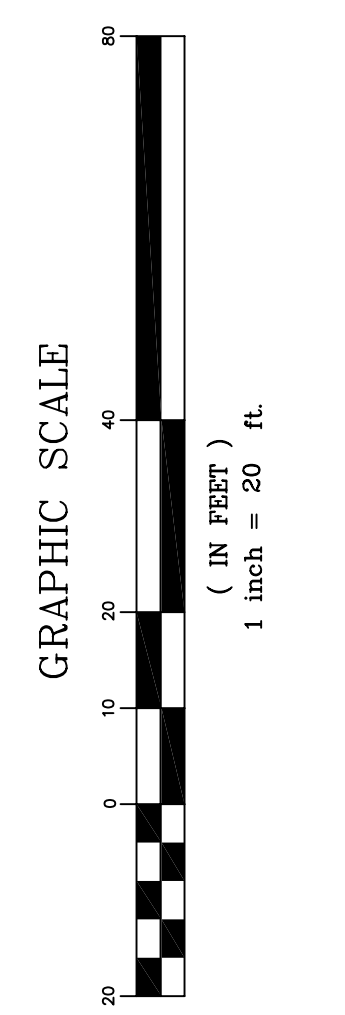
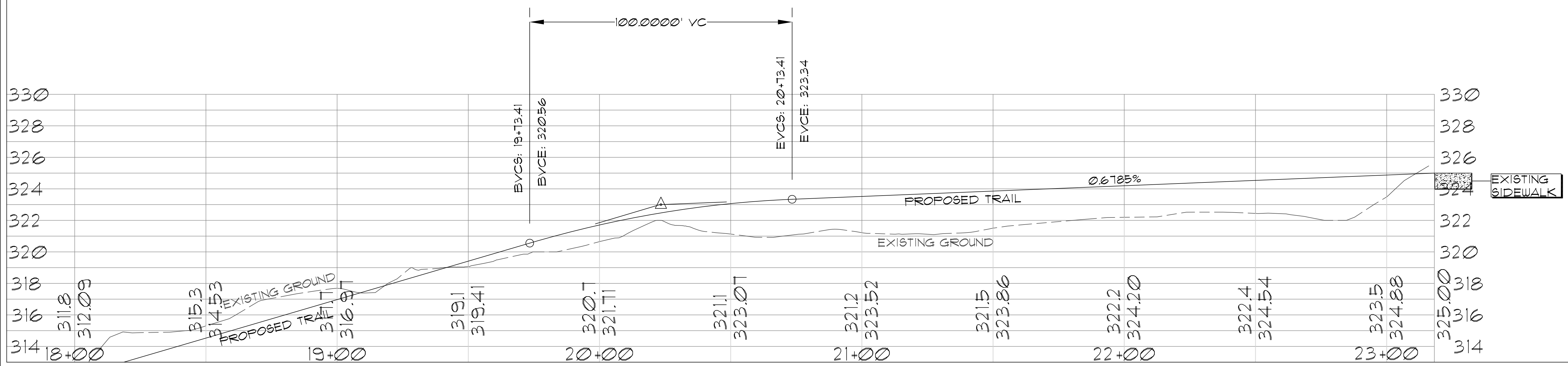
| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |

MULTI-USE TRAIL PLAN
SCALE 1" = 20'

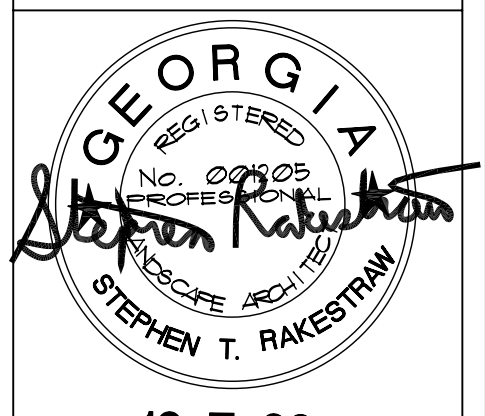


PVI STA = 20+23.41
PVI ELEV = 323.00
AD. = -4.2065
K = 23.1728

MATCH LINE
STA. 19+55



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Phone: 229.382.0003



10-7-09

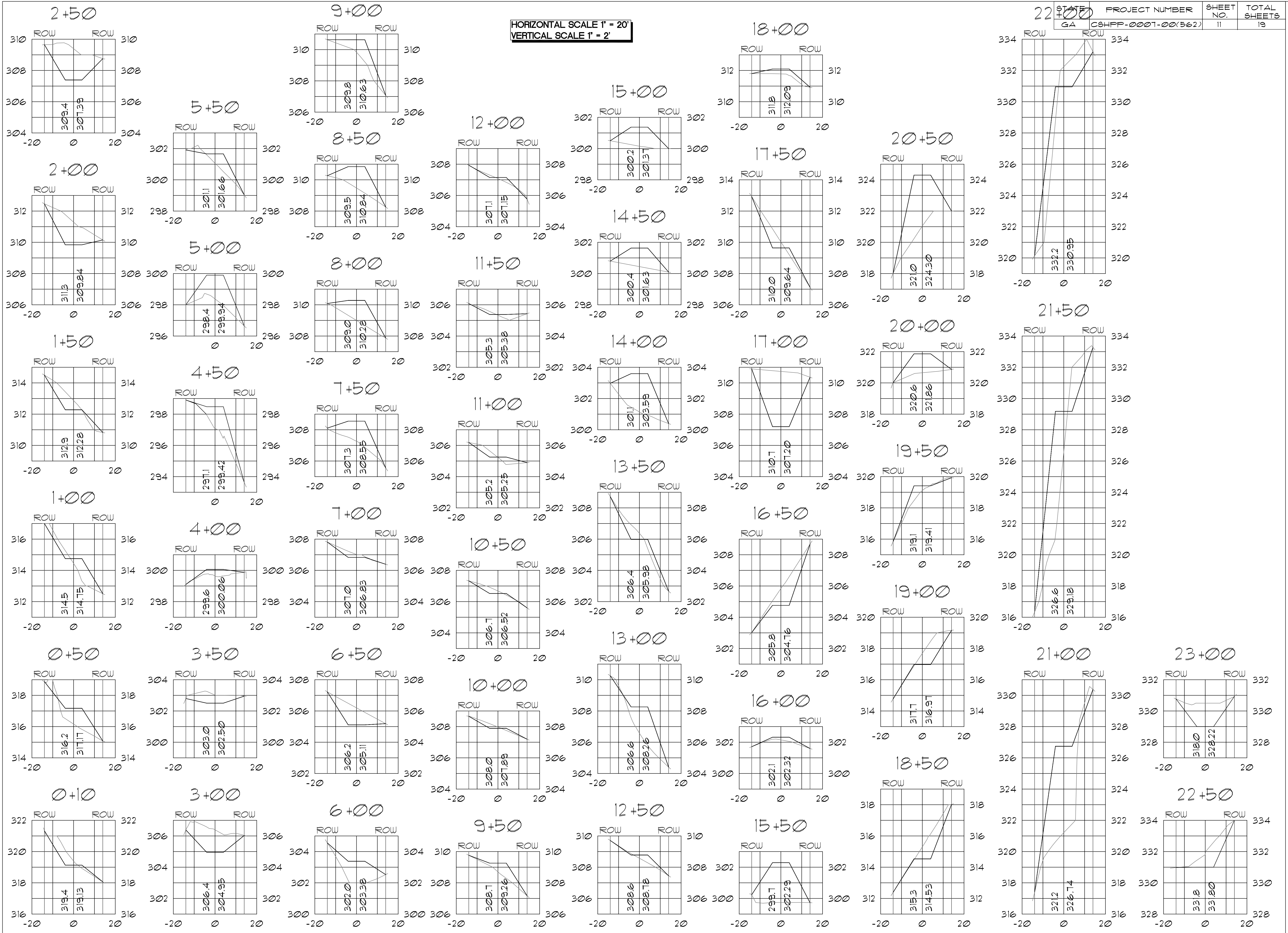
PROJECT:
MULTI-USE TRAIL
COLUMBUS, GA
CLIENT:
COLUMBUS STATE
UNIVERSITY

SHEET TITLE:
TRAIL
PLAN & PROFILE

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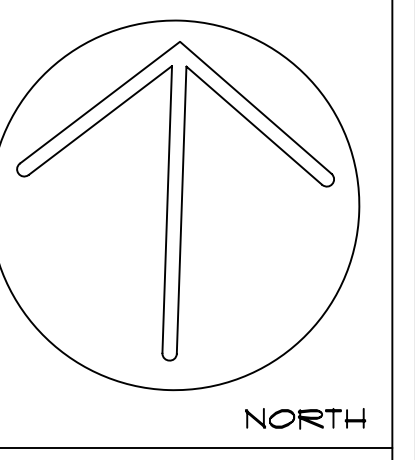
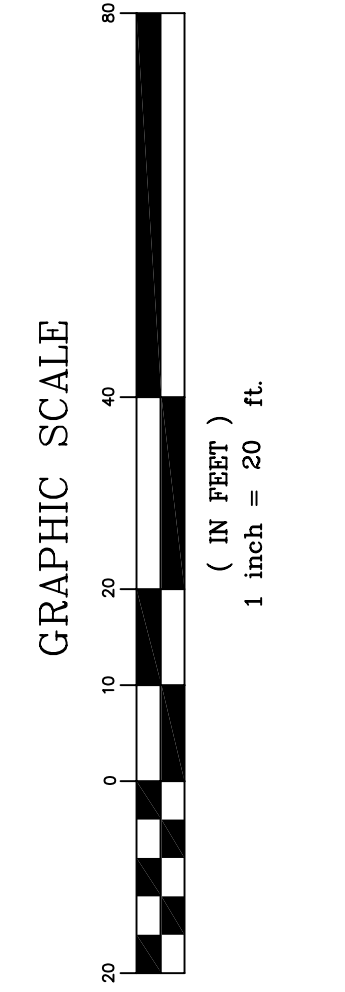
DATE: 10/09
SCALE: 1" = 20'

SHEET NO.:
10
of 10

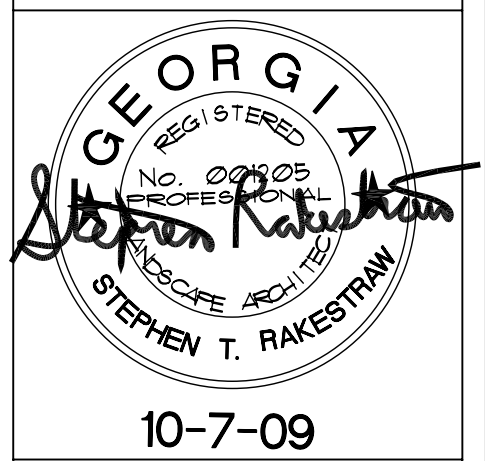


| | | | |
|-------|--------------------|-----------|--------------|
| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
| GA | CSHPP-0001-00(562) | 11 | 19 |

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



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 23 TY TY OMEGA RD.
 TIFTON, GA. 31794
 Phone: 229.382.0009

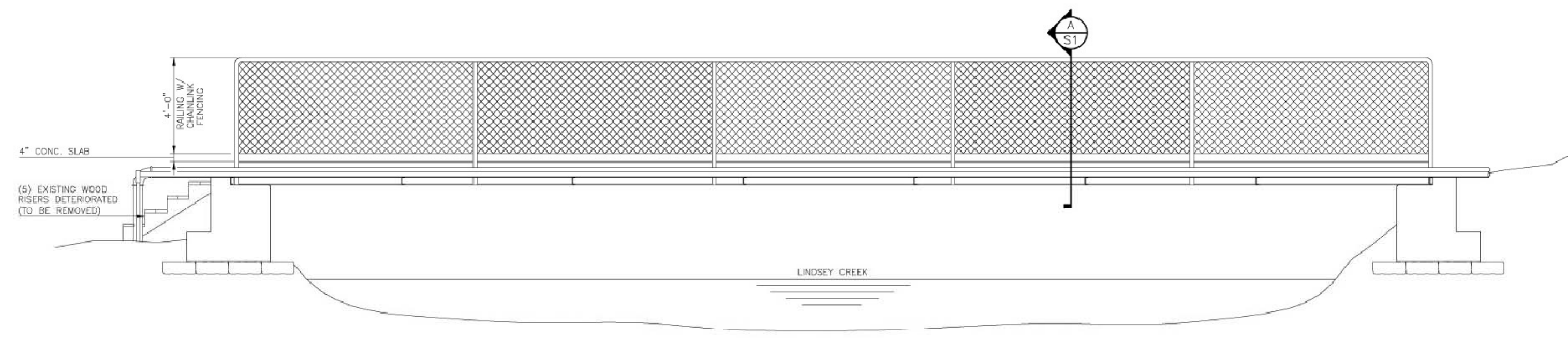


PROJECT:
 MULT-USE TRAIL
 COLUMBUS, GA
 CLIENT:
 COLUMBUS STATE
 UNIVERSITY

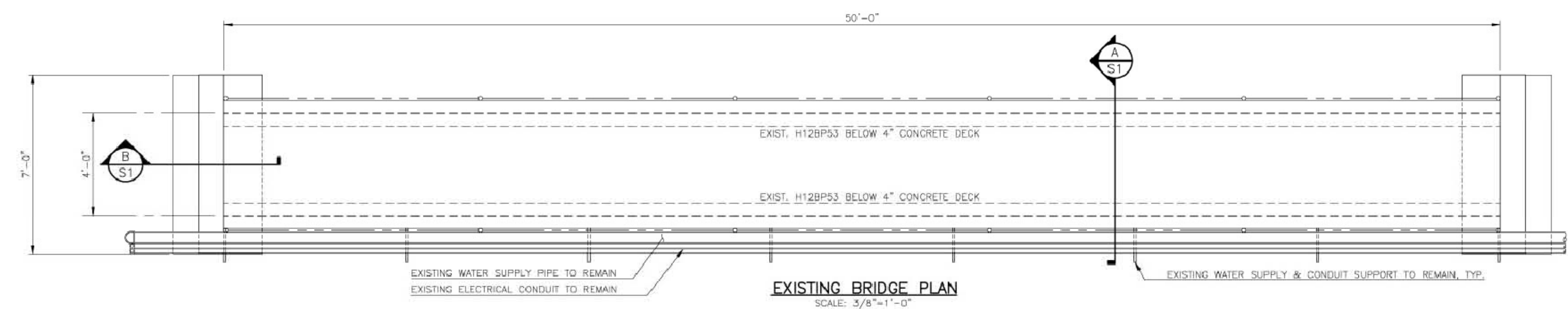
SHEET TITLE:
 CROSS SECTIONS

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 DATE: 10/09
 SCALE: 1" = 20'
 SHEET NO.:
11
 OF 19

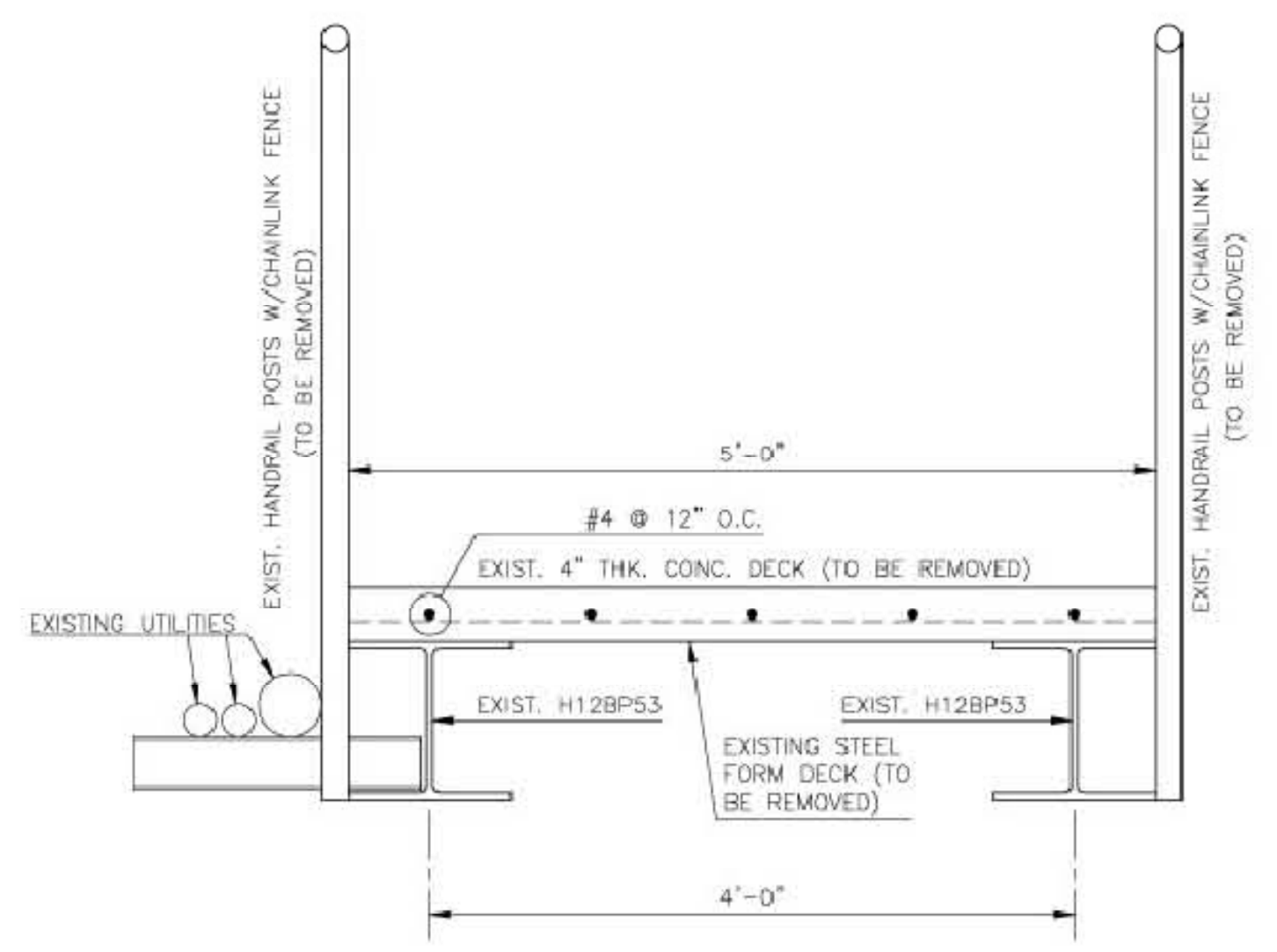
| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS | REVISIONS |
|-------|--------------------|-----------|--------------|------------------|
| GA | CSHPP-0001-00(562) | 12 | 19 | DATE DESCRIPTION |



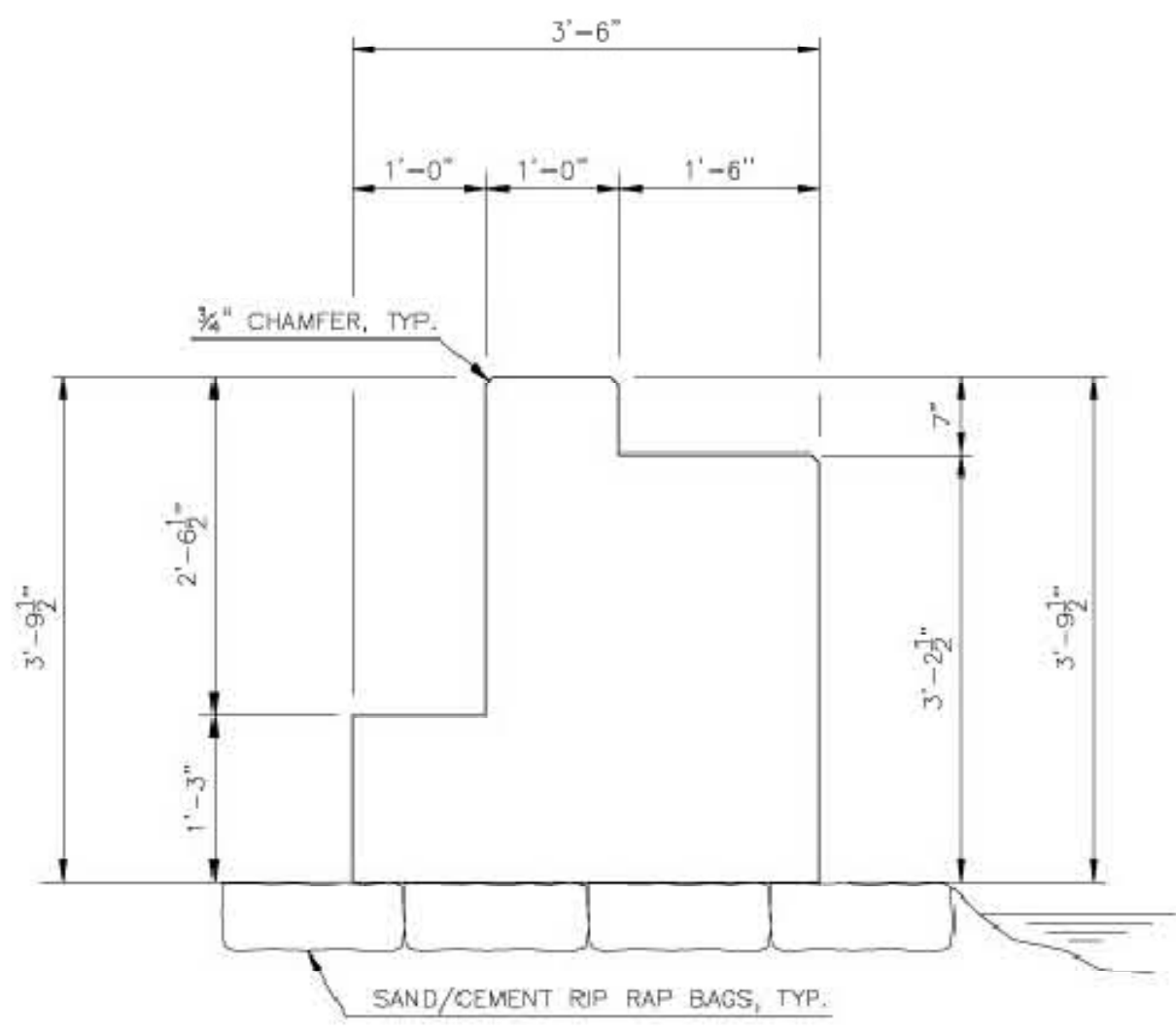
EXISTING BRIDGE ELEVATION
SCALE: 3/8"=1'-0"



EXISTING BRIDGE PLAN
SCALE: 3/8"=1'-0"



A SECTION
SCALE: 1"=1'-0"

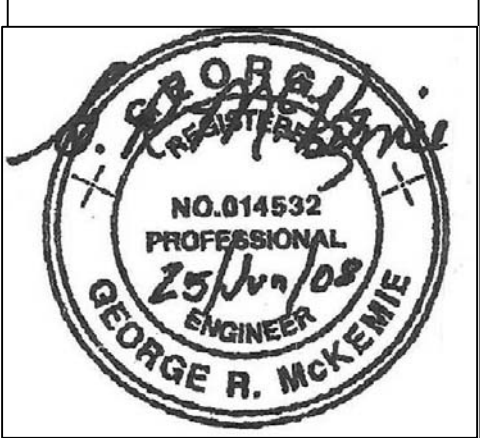


B SECTION
SCALE: 3/4"=1'-0"

NORTH



Rakestraw & Associates
Planning • Design • Environmental
83 TY TY OMEGA RD.
TIFTON, GA. 31794
Phone: 229.382.0009



PROJECT:
MULT-USE TRAIL
COLUMBUS, GA
CLIENT:
COLUMBUS STATE
UNIVERSITY

SHEET TITLE:
BRIDGE PLAN

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T. W. Tucker and Associates, Inc.
Consulting Structural Engineers
1710 Gillonville Road • P.O. Box 70218 • Albany, Georgia 31708-0218
Phone (229) 432-5531 • Fax (229) 432-5532 • tw.tucker@bellsouth.net
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| Rev. No. | Date | Description | By |
|----------|------|-------------|----|
| | | | |

RAKESTRAW & ASSOCIATES, INC.
TIFTON, GEORGIA

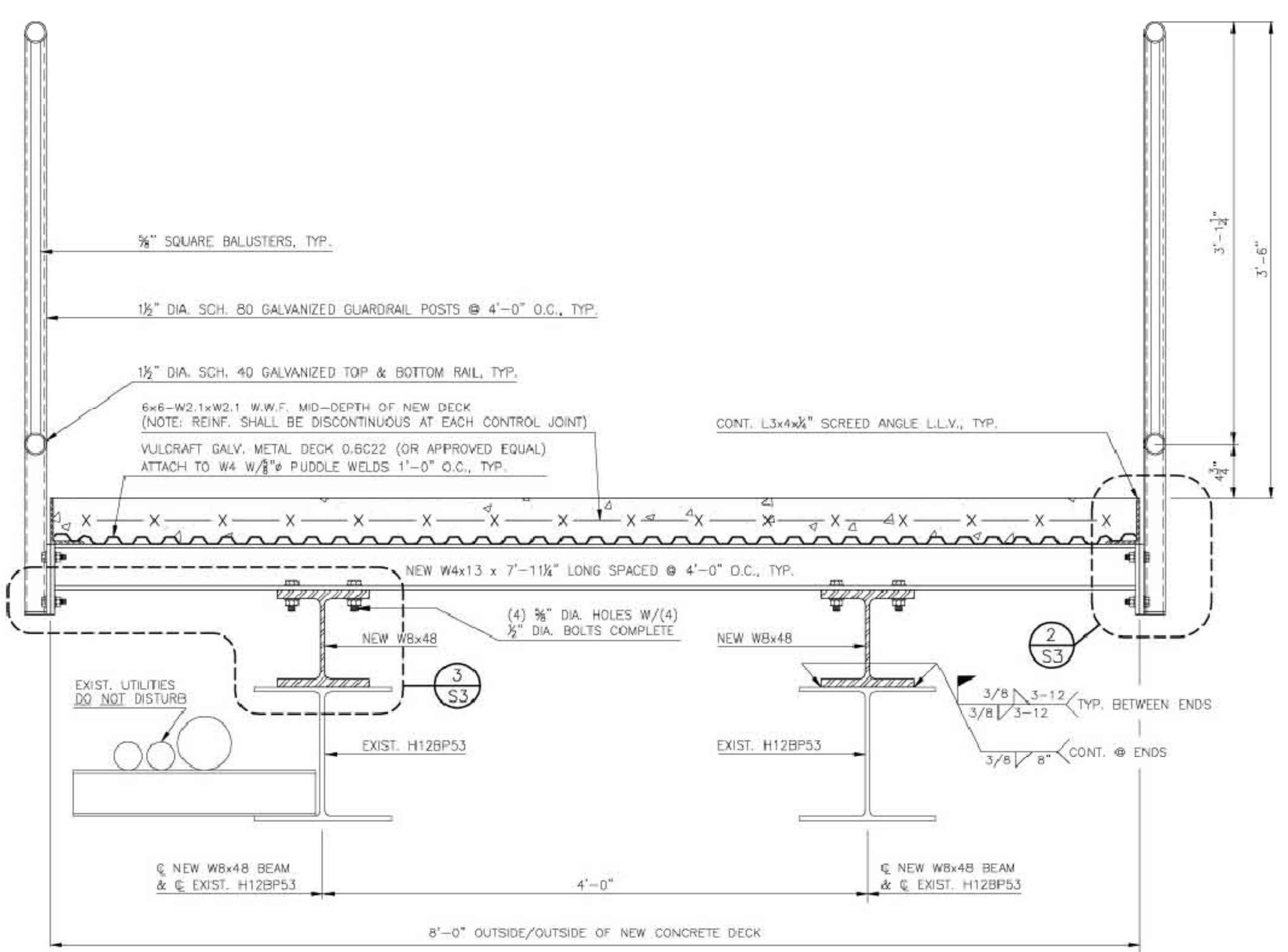
SCALE: AS SHOWN DRAWN BY: JW
DATE: 6-26-08 JOB NO.: 08081

PEDESTRIAN BRIDGE WIDENING AT COLUMBUS STATE UNIVERSITY - COLUMBUS, GEORGIA
EXISTING BRIDGE DETAILS DRAWING NO.: S1 OF 3

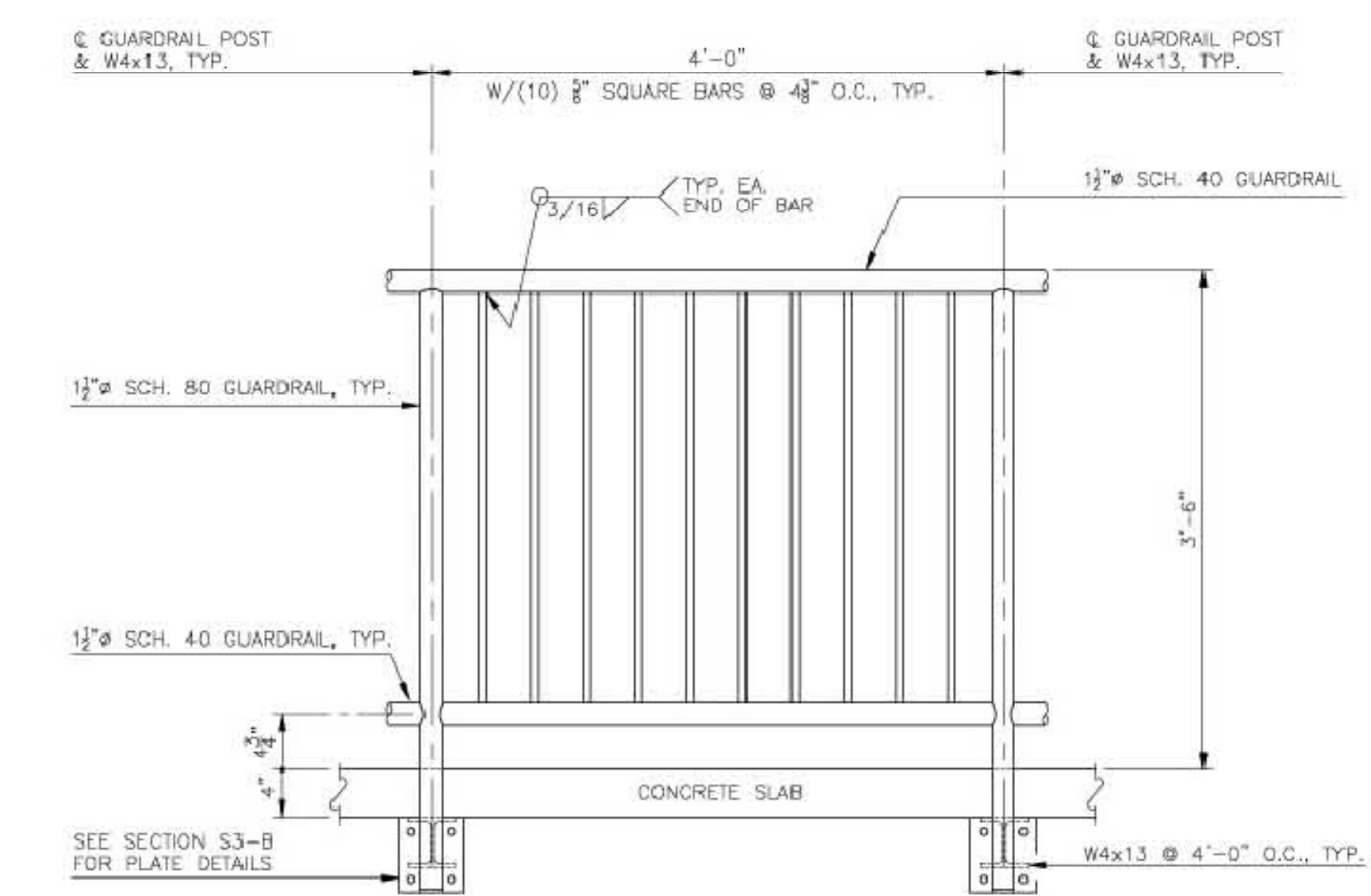
DATE: 10/09
SCALE: AS SHOWN

SHEET NO.:
12
of 19

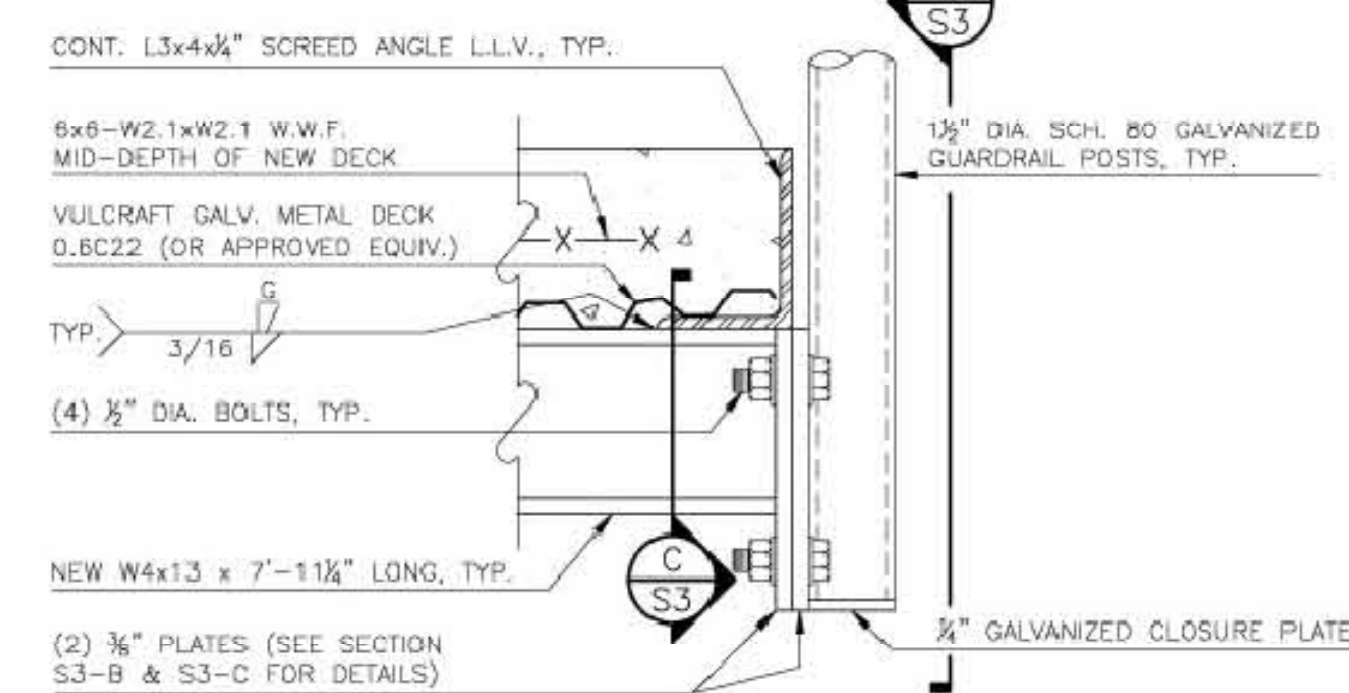
| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS | REVISIONS |
|-------|--------------------|-----------|--------------|------------------|
| GA | C5HPP-0001-00(562) | 14 | 19 | DATE DESCRIPTION |



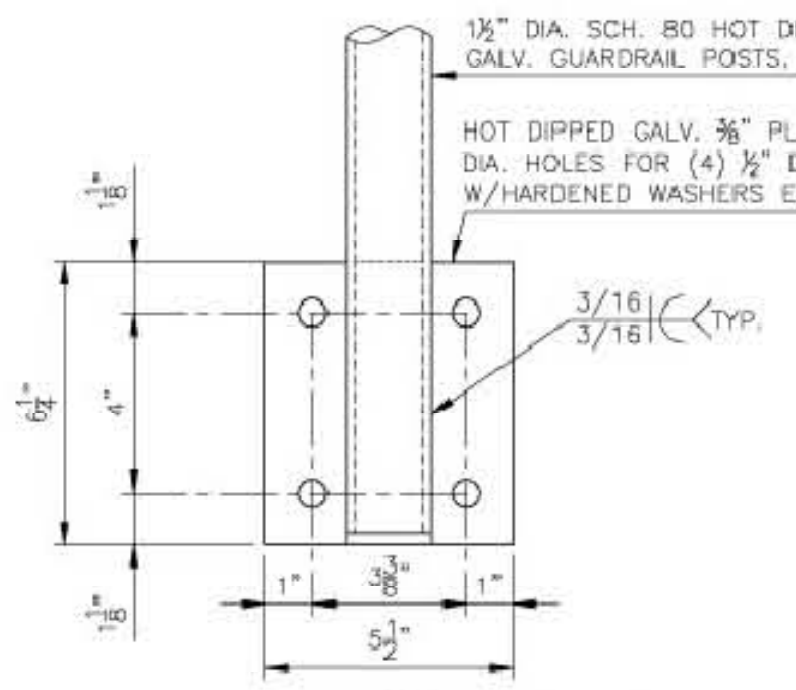
SECTION A S3
SCALE: 1/2"=1'-0"



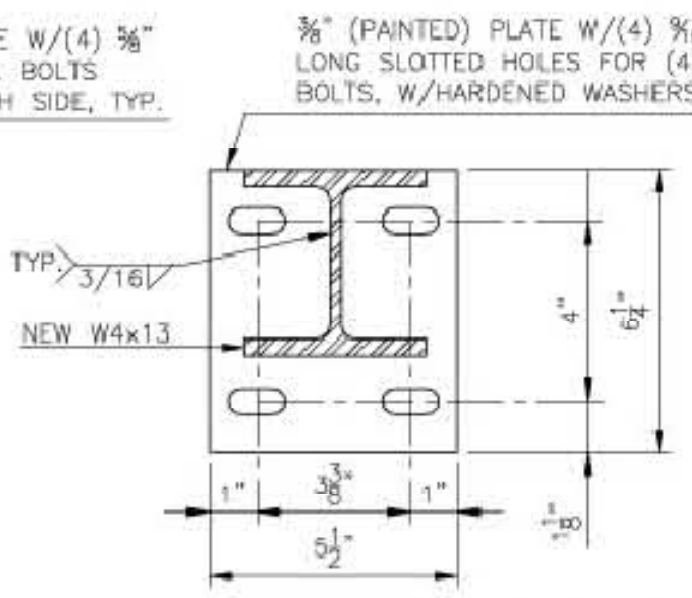
DETAIL 1 S3
(TYPICAL GUARDRAIL ELEVATION)
SCALE: 1"=1'-0"



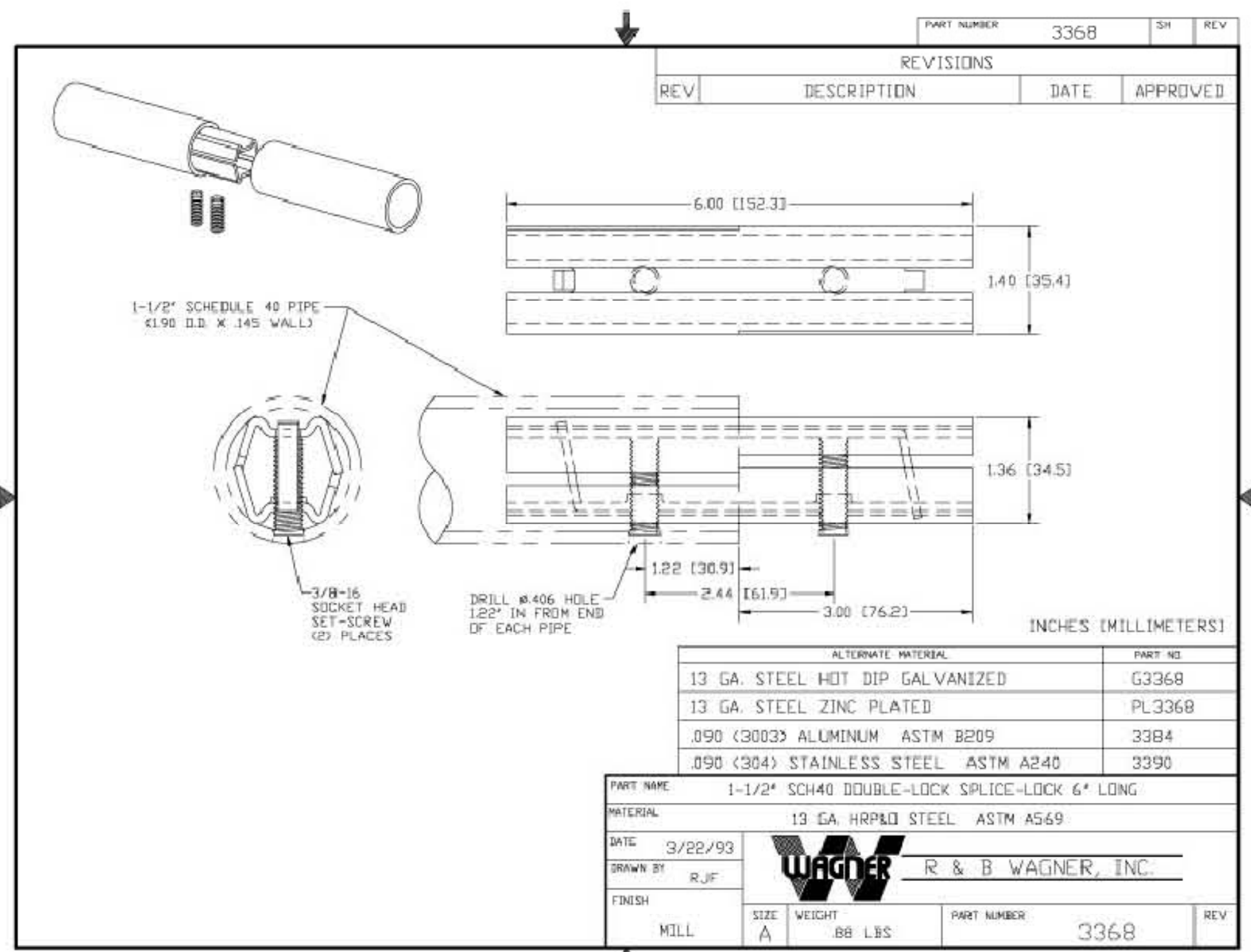
DETAIL 2 S3
SCALE: 3"=1'-0"



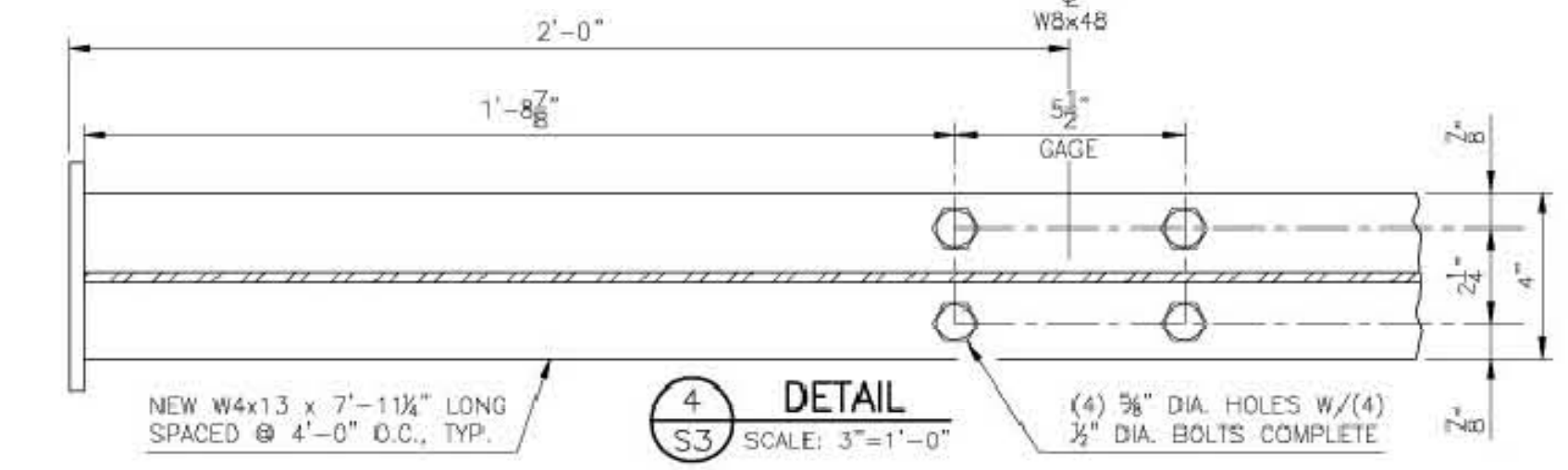
SECTION B S3
SCALE: 3"=1'-0"



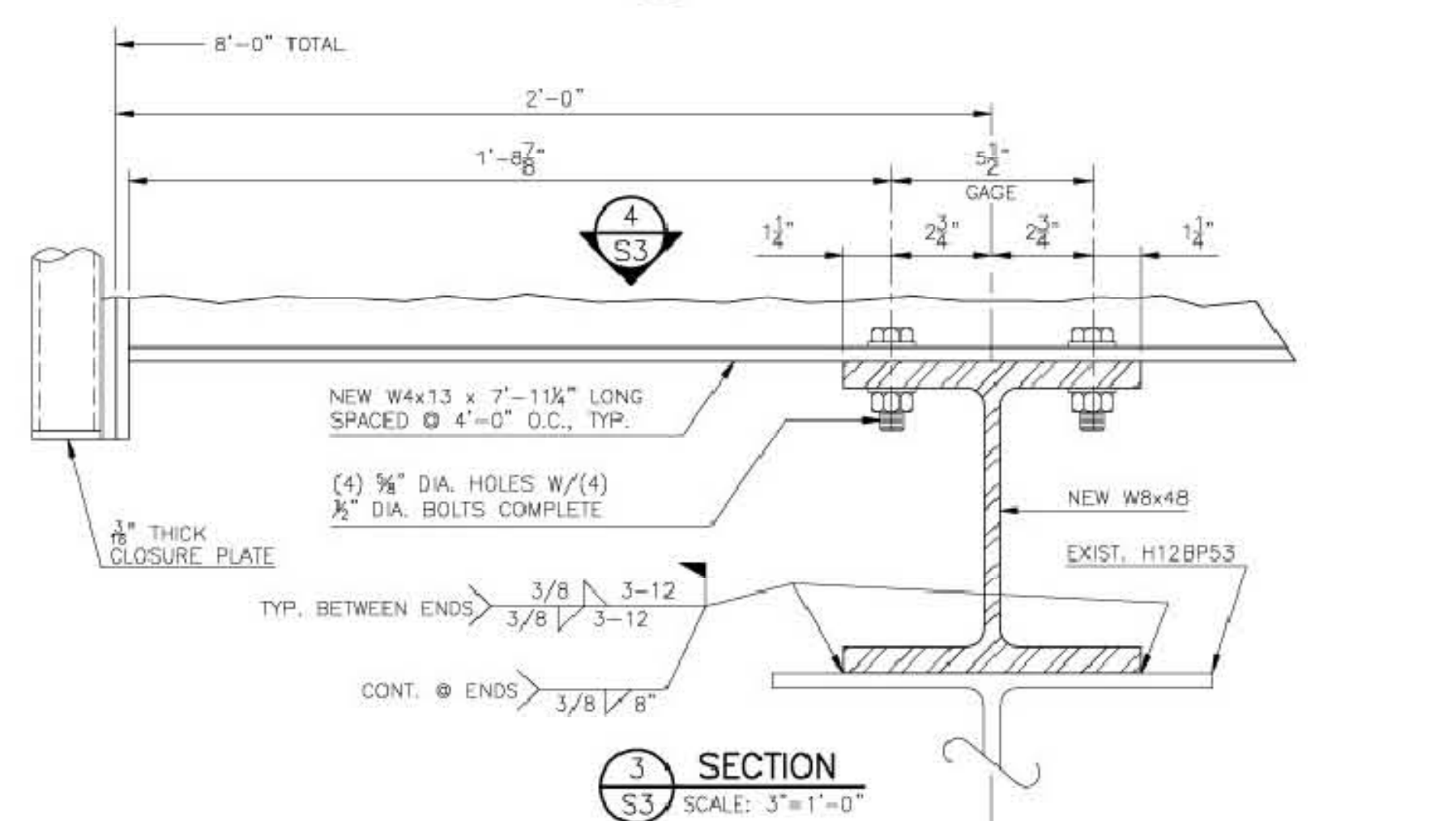
SECTION C S3
SCALE: 3"=1'-0"



DOUBLE-LOCK SPLICE-LOCK CONNECTOR
PART No. G3388 BY R&B WAGNER
(8 REQUIRED TOTAL)
NOT TO SCALE.



DETAIL 4 S3
SCALE: 3"=1'-0"



SECTION 3 S3
SCALE: 3"=1'-0"

T. W. Tucker and Associates, Inc.
Consulting Structural Engineers
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Phone (229) 432-5531 • Fax (229) 432-5532 • twtucker@bellsouth.net
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RAKESTRAW & ASSOCIATES, INC.
TIFTON, GEORGIA
SCALE: AS SHOWN
DATE: 8-25-08
DRAWN BY: JW
JOB NO.: 00001
PEDESTRIAN BRIDGE WIDENING AT COLUMBUS STATE UNIVERSITY - COLUMBUS, GEORGIA
MODIFIED BRIDGE SECTIONS & DETAILS S3 OF 3

NORTH

Rakestraw & Associates
Planning • Design • Environmental
83 TY TY OMEGA RD.
TIFTON, GA. 31794
Phone: 229.382.0009

GEORGE R. MCKEMIE
PROFESSIONAL ENGINEER
NO. 014532
25 Jun 08

PROJECT:
MULT-USE TRAIL
COLUMBUS, GA
CLIENT:
COLUMBUS STATE
UNIVERSITY

SHEET TITLE:
BRIDGE PLAN

DATE: 10/09
SCALE: AS SHOWN
SHEET NO.:
14
of 19

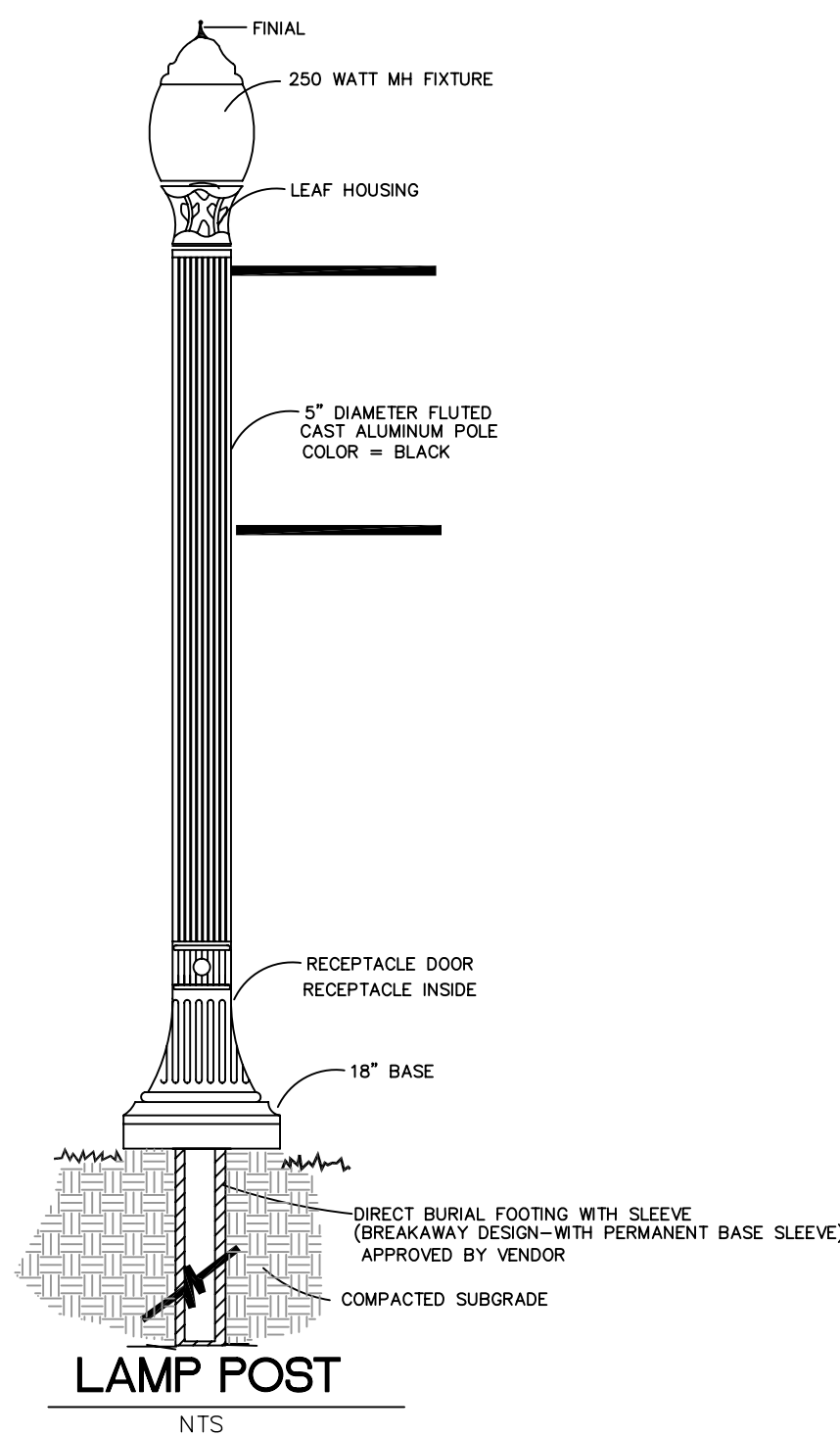
LIGHTING SCHEDULE

| LAMP ID | STA. | CIRCUIT | DESCRIPTION |
|---------|-------|---------|-------------------|
| A | 23+16 | CC-1 | CSU STANDARD LAMP |
| B | 22+60 | CC-1 | CSU STANDARD LAMP |
| C | 21+78 | CC-1 | CSU STANDARD LAMP |
| D | 21+00 | CC-1 | CSU STANDARD LAMP |
| E | 20+00 | CC-1 | CSU STANDARD LAMP |
| F | 19+20 | CC-1 | CSU STANDARD LAMP |
| G | 18+55 | CC-2 | CSU STANDARD LAMP |
| H | 16+00 | CC-2 | CSU STANDARD LAMP |
| I | 15+40 | CC-2 | CSU STANDARD LAMP |
| J | 14+65 | CC-2 | CSU STANDARD LAMP |
| K | 13+93 | CC-2 | CSU STANDARD LAMP |
| L | 13+21 | CC-2 | CSU STANDARD LAMP |
| M | 12+50 | CC-3 | CSU STANDARD LAMP |
| N | 11+24 | CC-3 | CSU STANDARD LAMP |
| O | 11+00 | CC-3 | CSU STANDARD LAMP |
| P | 10+25 | CC-3 | CSU STANDARD LAMP |
| Q | 9+50 | CC-3 | CSU STANDARD LAMP |
| R | 8+50 | CC-3 | CSU STANDARD LAMP |
| S | 7+75 | CC-4 | CSU STANDARD LAMP |
| T | 7+00 | CC-4 | CSU STANDARD LAMP |
| U | 6+10 | CC-4 | CSU STANDARD LAMP |
| V | 5+30 | CC-4 | CSU STANDARD LAMP |
| W | 4+83 | CC-4 | CSU STANDARD LAMP |
| X | 4+20 | CC-4 | CSU STANDARD LAMP |
| Y | 3+41 | CC-5 | CSU STANDARD LAMP |
| Z | 2+45 | CC-5 | CSU STANDARD LAMP |
| aa | 1+68 | CC-5 | CSU STANDARD LAMP |
| bb | 0+95 | CC-5 | CSU STANDARD LAMP |
| cc | 0+6 | CC-5 | CSU STANDARD LAMP |
| dd | 16+67 | CC-2 | CSU STANDARD LAMP |

CIRCUIT SCHEDULE

| CIRCUIT | DESCR. | QUANTITY | CONDUIT QUANTITY | PROVIDED CONDUIT |
|---------|--------|----------|------------------|------------------|
| CC-1 | LAMP | 6 | 1" | 600 LF |
| CC-2 | LAMP | 7 | 1" | 550 LF |
| CC-3 | LAMP | 6 | 1" | 300 LF |
| CC-4 | LAMP | 6 | 1" | 1300 LF |
| CC-5 | LAMP | 6 | 1" | 1750 LF |

PROVIDED CONDUIT IS THE CONDUIT FROM THE JUNCTION BOX AT THE PEDESTRIAN BRIDGE TO THE PANEL BOX AT THE CUNNINGHAM CENTER



ELECTRICAL NOTES

- 1.) ALL UNDERGROUND CONDUITS SHALL BE PVC SCH. 40 AND BURIED AT A MIN. 24" BELOW GRADE AND 48" BELOW PAVEMENT.
- 2.) ALL LIGHTS SHALL BE CONTROLLED WITH A MASTER PHOTO CELL AT EACH CONTROL BOX.
- 3.) THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NECESSARY BREAKERS REQUIRED FOR INSTALLATION. NEW BREAKERS SHALL MATCH A.I.C. RATING AND BREAKER TYPE AS EXISTING BREAKERS.
- 4.) FOR ANY POWER METERS, THE SOCKET IS TO BE FURNISHED BY GA. POWER AND INSTALLED BY THR CONTRACTOR. THE SERVICE DROP AND METER IS TO BE FURNISHED AND INSTALLED BY GA. POWER.
- 5.) ALL EXPOSED CONDUITS SHALL BE RIGID GALVANIZED STEEL (RGS)
- 6.) 208 VOLT WIRING :10-2 WITH GROUND (1) - 2 POLE BREAKER/RELAY (30 AMP)
- 7.) ALL OUTDOOR EQUIPMENT SHALL BE WEATHERPROOF.
- 8.) AT ALL OUTDOOR JUNCTION BOX LOCATIONS, THE CONTRACTOR SHALL STUB UP INCOMING CONDUIT TO 3" A.F.G. THEN PIPE MOUNT THE JUNCTION BOX ON THE END OF THE CONDUIT. THE CONDUITS EXITING THE JUNCTION BOX SHALL CONTINUE UNDERGROUND. *ALL JUNCTION BOXES SHALL HAVE LIDS LABELED "ELECTRIC"
- 9.) ALL WORK TO BE DONE PER 1999 NEC.
- 10.) THE CONTRACTOR SHALL COORDINATE ALL WORK WITH GA. POWER, AND COLUMBUS STATE UNIVERSITY.
- 11.) AN EXISTING CONTROL PLAN IS WITHIN THE CUNNINGHAM CENTER MECHANICAL ROOM. EXISTING CONDUITS ARE IN PLACE FROM THE CUNNINGHAM CENTER TO THE EXISTING PEDESTRIAN BRIDGE AREA JUNCTION BOX. ELECTRICAL CONTRACTORS SHALL INSPECT THE EXISTING CONDITIONS, CONDUITS, JUNCTION BOXES, AND PANEL BOX PRIOR TO BIDDING AND MAKE ANY NECESSARY CHANGES ABOVE THE PLANS TO PROVIDE THE LATEST ELECTRICAL CODE COMPLIANCY. ALL CONNECTIONS, FITTINGS, BREAKERS, ETC. SHALL BE AT THE CONTRACTORS EXPENSE.
- 12.) ALL CONDUIT ON PEDESTRIAN BRIDGE SHALL BE RIGID GALVANIZED STEEL, WATERPROOF AND SECURED TO BRIDGE IBEAMS,

PANEL SCHEDULE

| CIRCUIT | DESCR. | BREAKER | VOLTAGE | AMPS |
|---------|--------|---------|---------|-------|
| CC-1 | LAMP | 30A/2P | 624 | 9.06 |
| CC-2 | LAMP | 30A/2P | 728 | 10.51 |
| CC-3 | LAMP | 30A/2P | 624 | 9.06 |
| CC-4 | LAMP | 30A/2P | 624 | 9.06 |
| CC-5 | LAMP | 30A/2P | 520 | 7.55 |

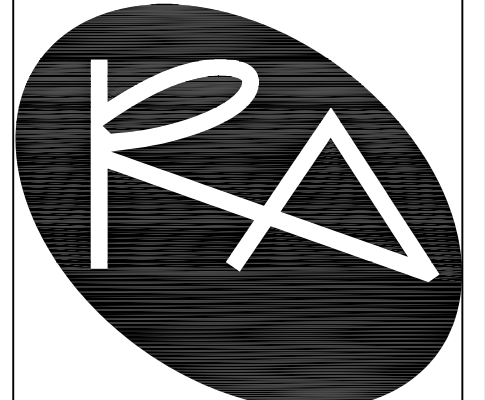
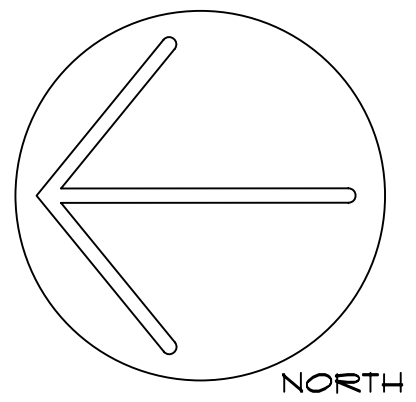
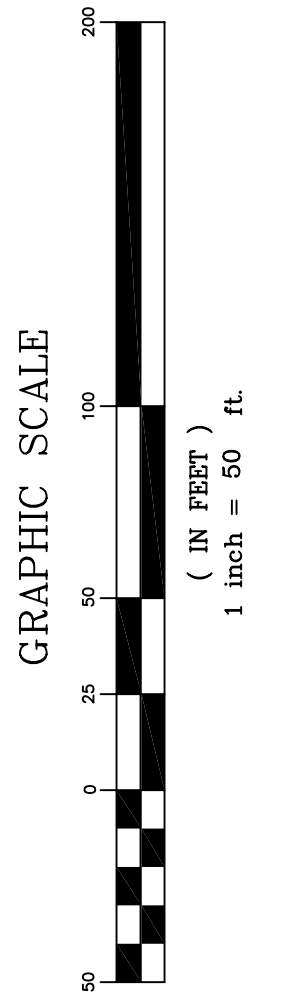
TOTAL VOLTAGE = 3120
POWER = 208 SINGLE PHASE
TOTAL AMPS = 45.3

| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS | REVISIONS |
|-------|--------------------|-----------|--------------|------------------|
| GA | CSHPP-0007-00(562) | 15 | 19 | DATE DESCRIPTION |

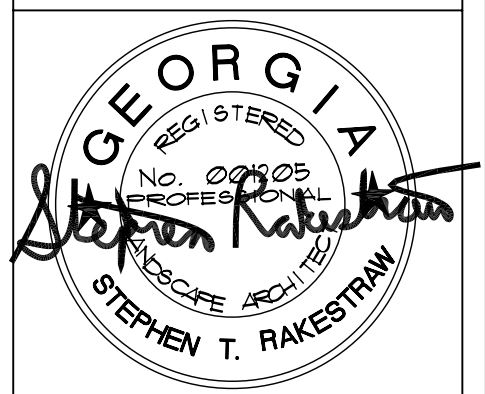
LAMP POST VENDORS

LAMP POST AND FIXTURE SHALL BE:

- 1) 14' CAST ALUMINUM POLE
- 2) 250 WATT METAL HALIDE FIXTURE
- 3) ACORN STYLE GLASS HOUSING
- 4) ACCESSIBLE HANDHOLD WITH RECEPTACLE
- 5) TRACK SYSTEM FOR BANNERS OR CAMERAS
- 6) COLOR = BLACK



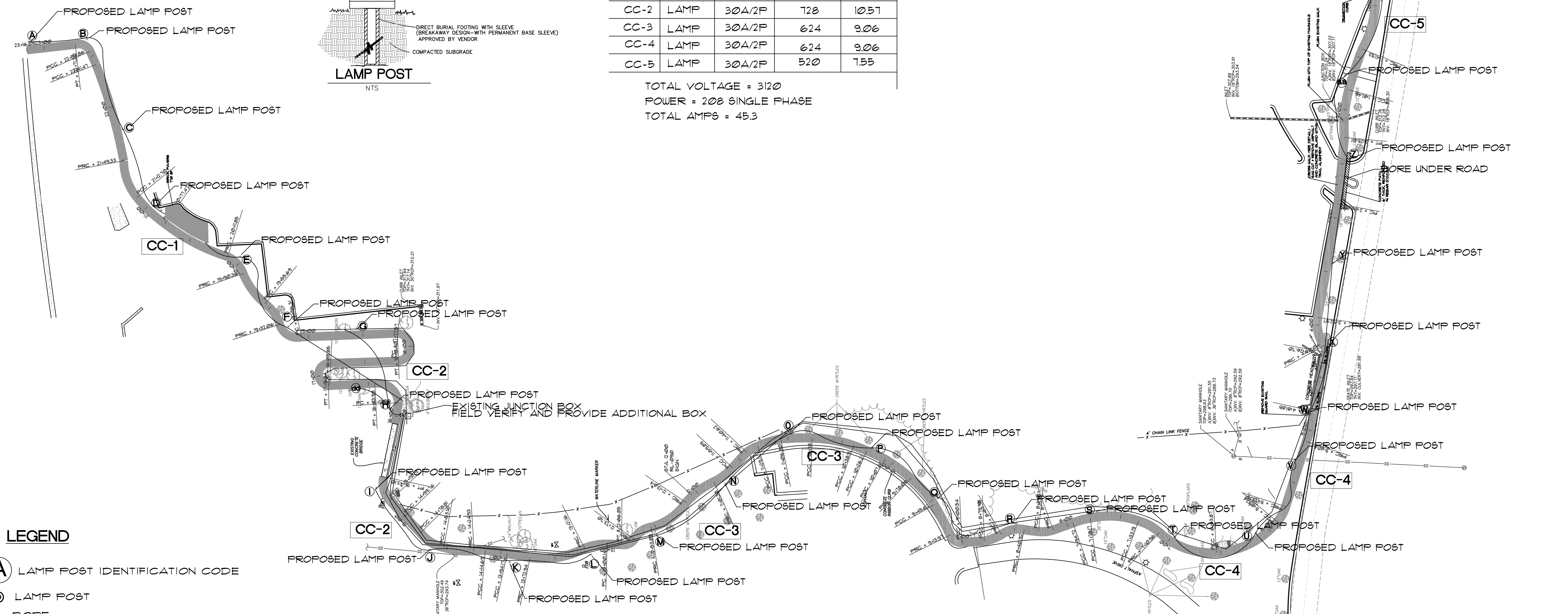
Rakestraw & Associates
Planning • Design • Environmental
23 TY TY OMEGA RD.
TIFFIN, GA. 31794
Phone: 229.382.0003



10-7-09
PROJECT: MULT-USE TRAIL COLUMBUS, GA
CLIENT: COLUMBUS STATE UNIVERSITY

SHEET TITLE:
OUTDOOR LIGHTING PLAN

DATE: 10/09
SCALE: 1" = 50'
SHEET NO.: 15 of 19



OUTDOOR LIGHTING PLAN
scale: 1" = 50'

| PRACTICE | CONSTRUCTION EXIT | DUST CONTROL | SEDIMENT BARRIER | DISTURBED AREA STABILIZATION (WITH MULCH) | DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) | DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING) | SEDIMENT BARRIER type C | SEDIMENT INLET TRAP | SEDIMENT BARRIER SILT FENCE HAY BAILE | TOPSOILING |
|------------|-------------------|--------------|------------------|---|---|---|-------------------------|---------------------|---------------------------------------|------------|
| | Co | Du | Sd1 | Ds1 | Ds2 | Ds3 | Sd1 type C | Sd1 | Sd1-HB | Tp |
| MAP SYMBOL | | | | | | | | | | |

INITIAL PHASE NOTES

THE INITIAL PHASE OF THE DEVELOPMENT MUST INCLUDE THE INSTALLATION OF THE FOLLOWING EROSION & SEDIMENT CONTROL DEVICES PRIOR TO GROUND BREAKING:

- 1) SILT FENCE (Sd1) BOUNDARY ALONG ALL AREA WITHIN THE LIMITS OF DISTURBANCE
- 2) CONSTRUCTION EXIT (Co) TO PREVENT THE MIGRATION OF DIRT FROM THE PROJECT SITE
- 3) SEDIMENT STORAGE FOND SHALL BE CONSTRUCTED PRIOR TO GRADING.
- 4) PLAN DESIGNER SHALL BE NOTIFIED AND INSPECT BMP'S NO LATER THAN 1 DAYS AFTER GROUND BREAKING.
- 5) OPERATOR SHALL NOTIFY PLAN DESIGNER WITHIN 48 HOURS OF GROUND BREAKING.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

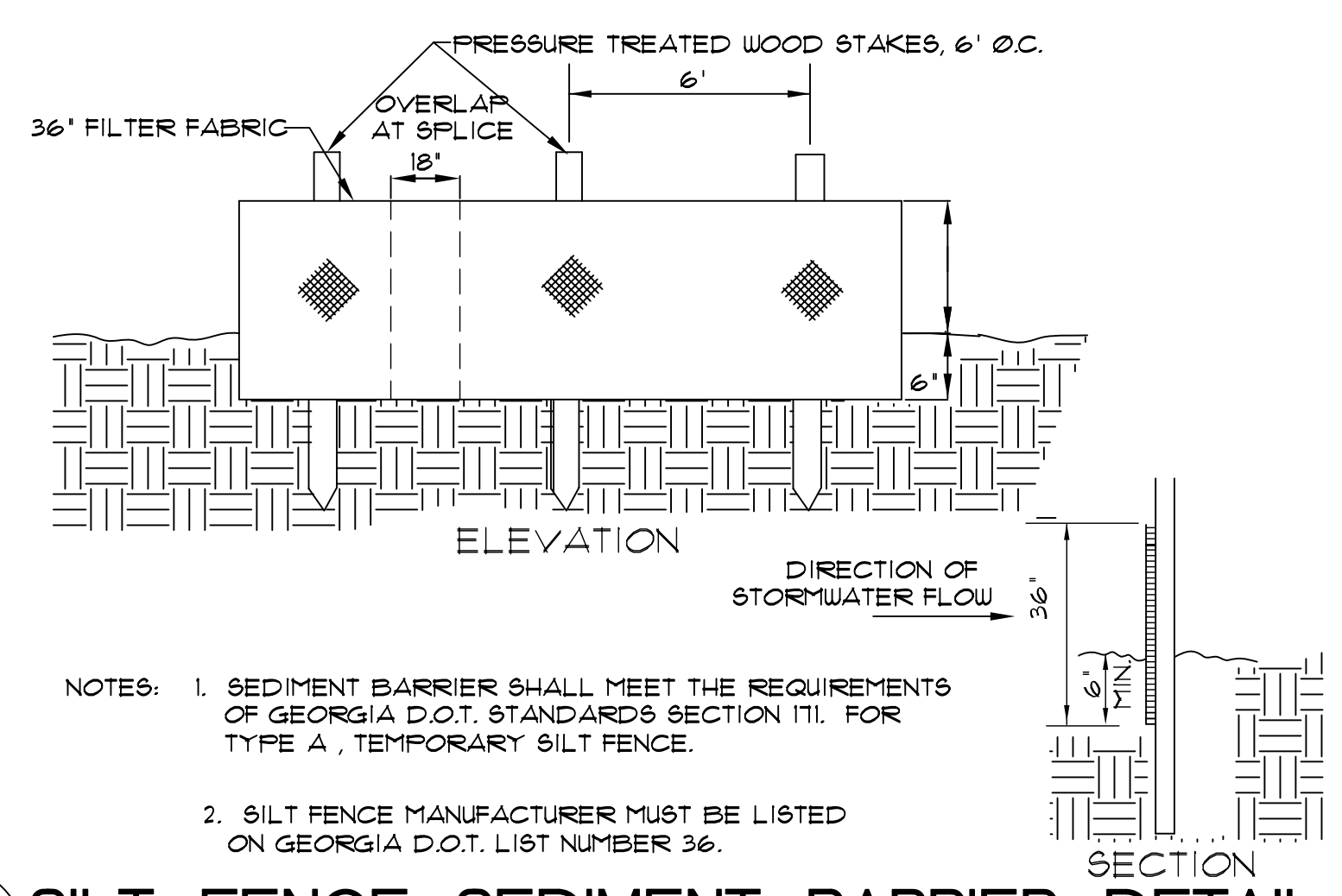
EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ALL DISTURBED AREAS NOT DESIGNATED FOR PAVING OR STRUCTURES SHALL BE STABILIZED WITH TEMPORARY AND PERMANENT VEGETATION Ds1 and Ds2.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

TP TOPSOILING

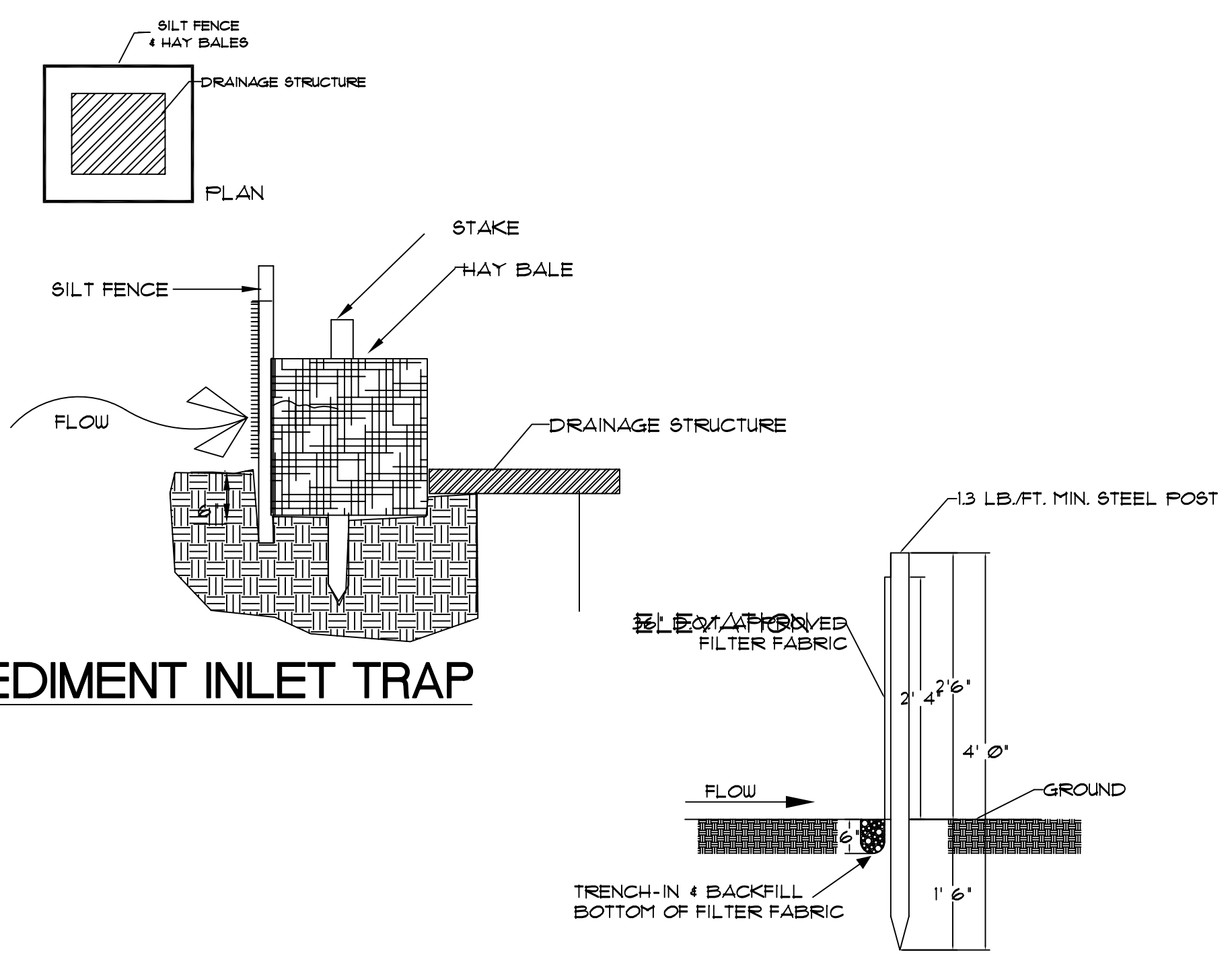
1. STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. A 4 TO 6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.
 2. IF PH VALUE IS LESS THAN 6.0. LIME SHALL BE APPLIED AND INCORPORATED WITH THE TOPSOIL TO ADJUST THE PH TO 6.5 OR HIGHER. TOPSOILS CONTAINING SOLUBLE SALTS GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
 3. THE LOCATION OF TOPSOIL STOCKPILES SHOULD NOT OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
 4. STOCKPILES SHALL BE CONTAINED BY SEDIMENT BARRIERS TO PREVENT SEDIMENTATION ON ADJACENT AREAS. STOCKPILES SHALL BE STABILIZED IN ACCORDANCE WITH SPECIFICATIONS FOR DS1, DS2, AND TP.
- SITE PREPARATION:**
1. TOPSOILING: WHEN TOPSOILING, MAINTAIN NEEDED EROSION CONTROL PRACTICE SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, LEVEL SPREADERS, WATERWAYS, SEDIMENT BASINS, ETC.
 2. GRADING: GRADES ON THE AREAS TO BE TOP SOILED WHICH HAVE BEEN PREVIOUSLY ESTABLISHED SHALL BE MAINTAINED.
 3. LIMING: SOIL TESTS SHOULD BE USED TO DETERMINE THE PH OF THE SOIL. WHERE THE PH OF THE SUBSOIL IS 5.0 OR LESS OR COMPOSED OF HEAVY CLAYS, AGRICULTURAL LIMESTONE SHALL BE SPREAD AT THE RATE OF 100 POUNDS PER 1,000 SQUARE FEET. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES:
 4. BONDING: USE ONE OF THE FOLLOWING METHODS TO INSURE BONDING OF TOPSOIL:
 - A. TILLING: AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO DUMPING AND SPREADING THE TOPSOIL, THE SUB GRADE SHALL BE LOOSENEED BY DISCING OR SCARIFYING TO A DEPTH OF AT LEAST 3 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SUBSOIL.
 - B. TRACKING: PASSING A BULLDOZER OVER THE ENTIRE SURFACE AREA OF THE SLOPE TO LEAVE HORIZONTAL DEPRESSIONS.
 5. APPLYING TOPSOIL:
 - A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITH WITHOUT DAMAGING SOIL STRUCTURE.
 - B. A UNIFORM APPLICATION OF 6 INCHES (UNSETTLED) IS RECOMMENDED, BUT MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER OR LANDSCAPE ARCHITECT.



NOTES: 1. SEDIMENT BARRIER SHALL MEET THE REQUIREMENTS OF GEORGIA D.O.T. STANDARDS SECTION III. FOR TYPE A, TEMPORARY SILT FENCE.

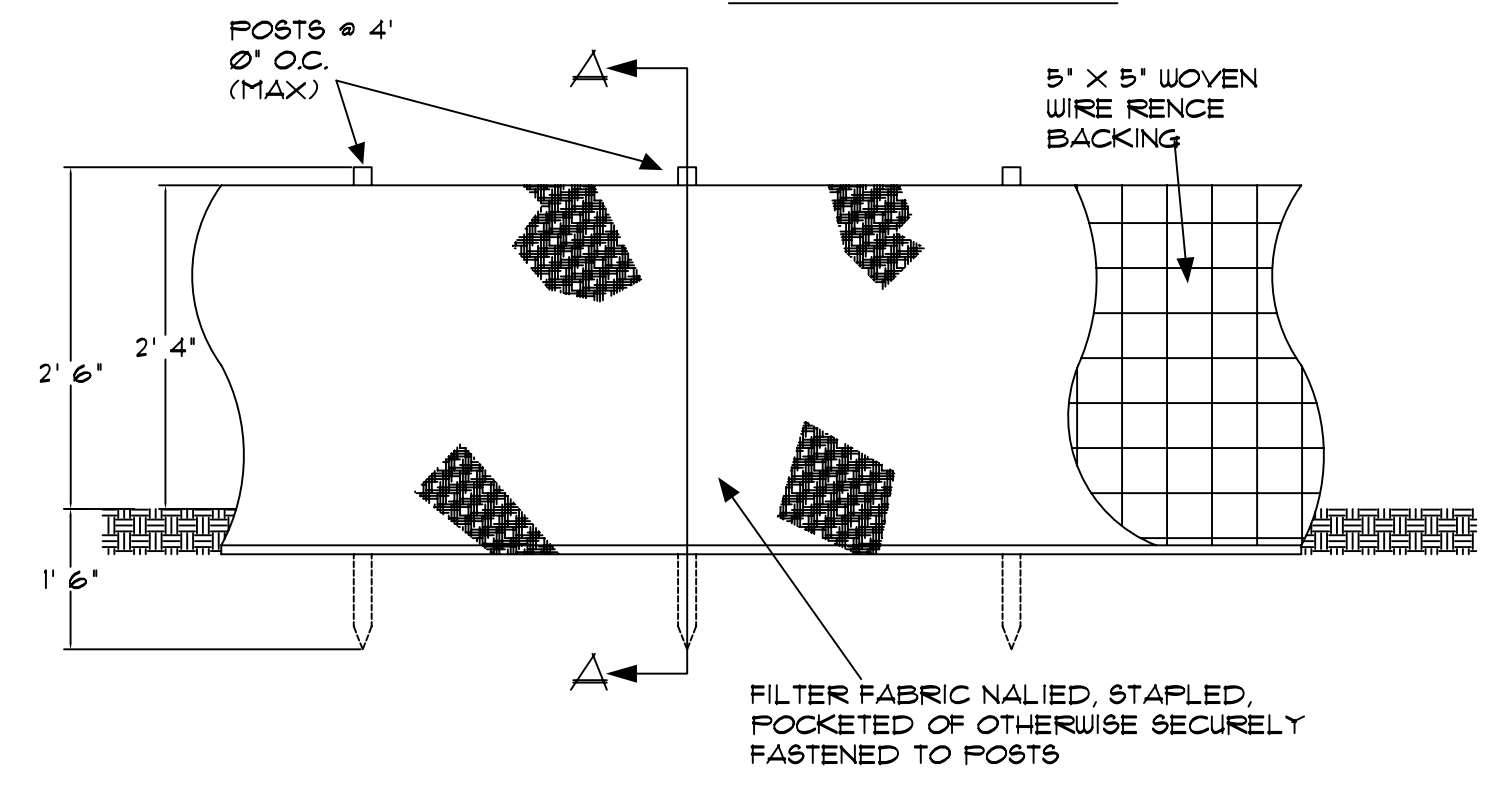
2. SILT FENCE MANUFACTURER MUST BE LISTED ON GEORGIA D.O.T. LIST NUMBER 36.

Sd1 SILT FENCE SEDIMENT BARRIER DETAIL

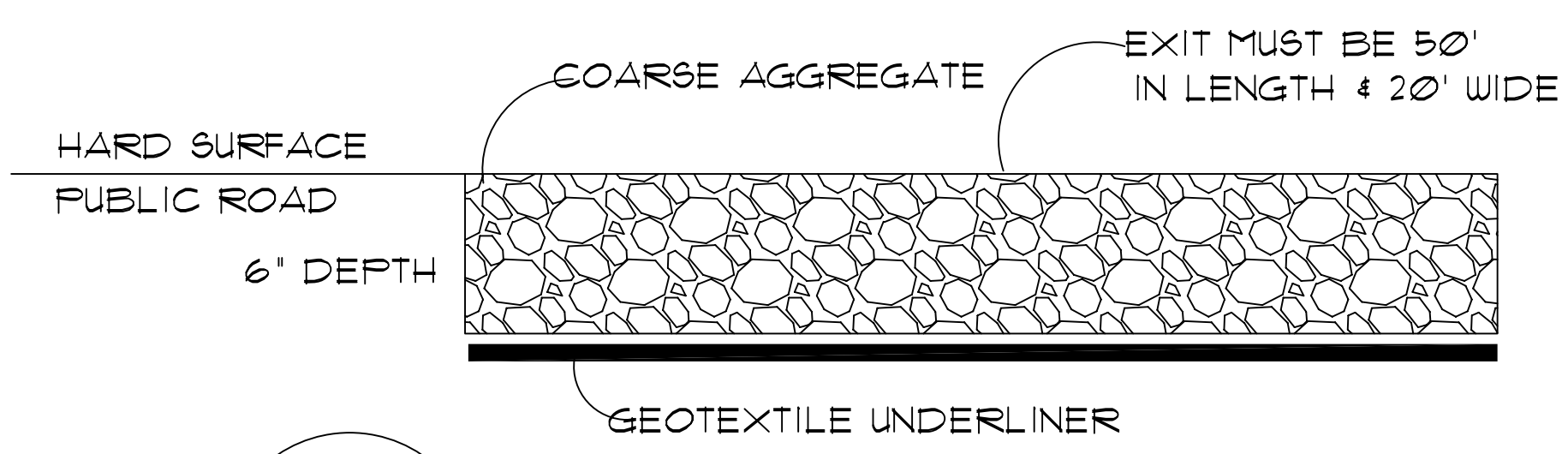


Sd2 SEDIMENT INLET TRAP

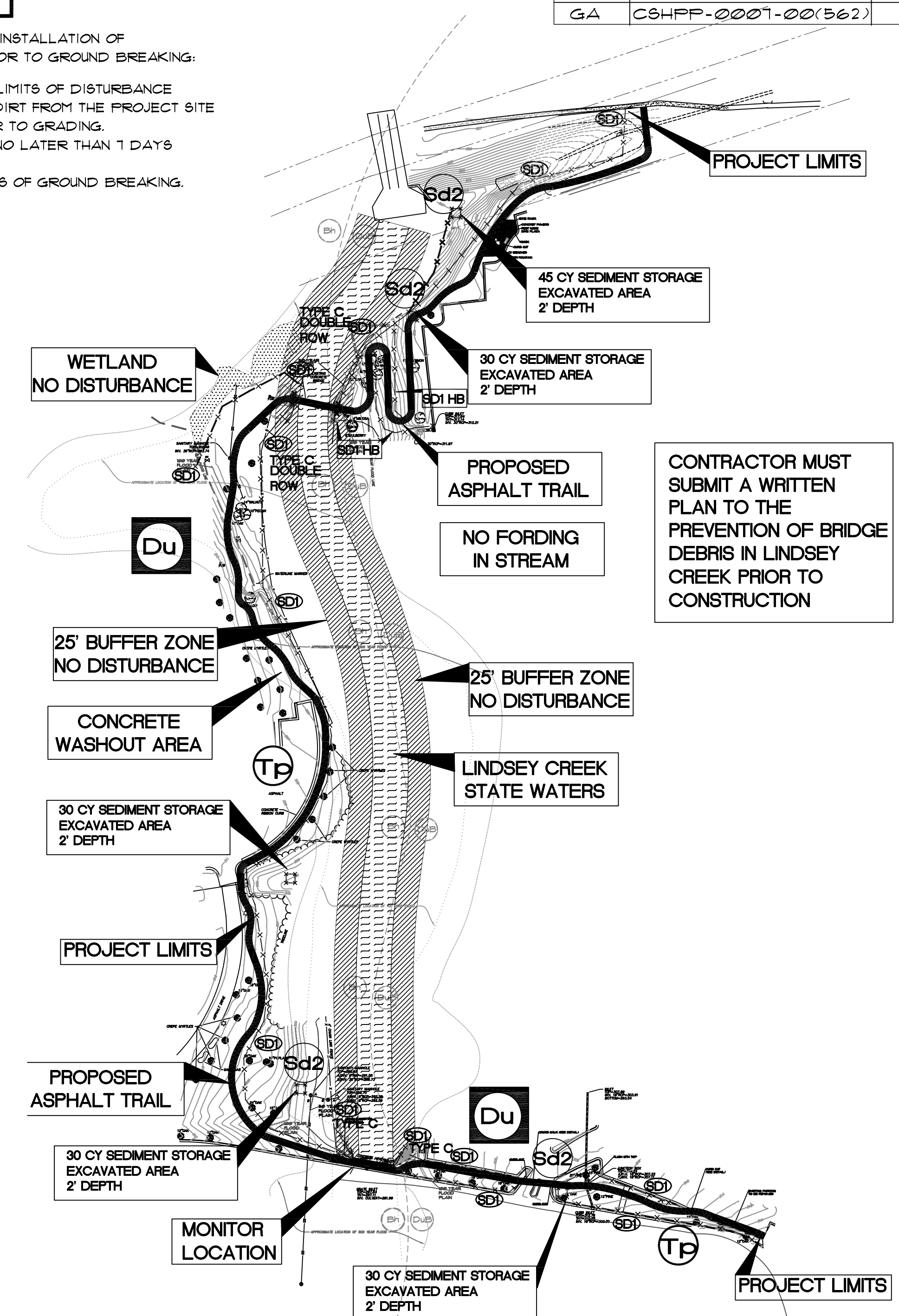
SECTION A-A



Sd1-C SEDIMENT BARRIER-SILT FENCE

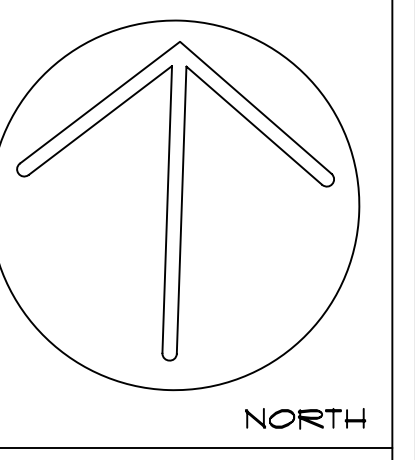
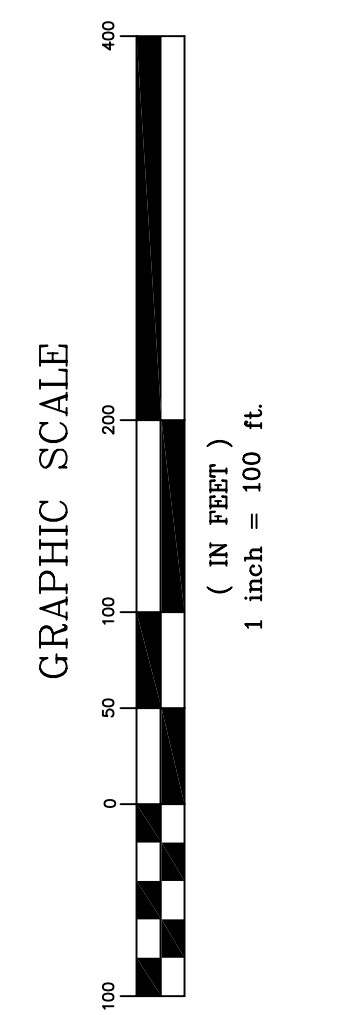


Co CONSTRUCTION EXIT



INITIAL PHASE
1" = 100'

CONTRACTOR MUST SUBMIT A WRITTEN PLAN TO THE PREVENTION OF BRIDGE DEBRIS IN LINDSEY CREEK PRIOR TO CONSTRUCTION



Rakestraw & Associates
Planning • Design • Environmental
23 TY TY OMEGA RD.
TIFTON, GA. 31794
Phone: 229.382.0003

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 60969
STEPHEN T. RAKESTRAW
10-7-08
Certified Design
Professional # 000002144

PROJECT:
MULT-USE TRAIL
COLUMBUS, GA

CLIENT:
COLUMBUS STATE UNIVERSITY

SHEET TITLE:
INITIAL PHASE

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DATE: 10/09
SCALE: 1" = 100'

SHEET NO.:
16
of 19

| PRACTICE | CONSTRUCTION EXIT | DUST CONTROL | SEDIMENT BARRIER | DISTURBED AREA STABILIZATION (WITH MULCH) | DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) | DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING) | SEDIMENT BARRIER type C | SEDIMENT INLET TRAP | SEDIMENT BARRIER SILT FENCE HAY BALE | TOPSOILING |
|------------|-------------------|--------------|------------------|---|---|---|-------------------------|---------------------|--------------------------------------|------------|
| MAP SYMBOL | | | | | | | | | | |

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

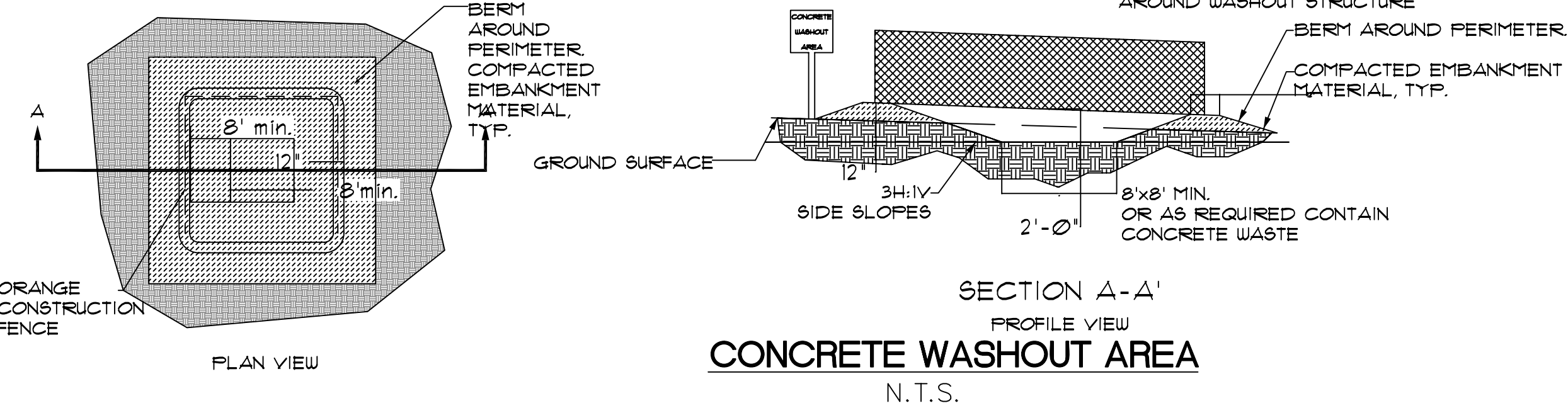
EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ALL DISTURBED AREAS NOT DESIGNATED FOR PAVING OR STRUCTURES SHALL BE STABILIZED WITH TEMPORARY AND PERMANENT VEGETATION Ds1 and Ds2.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

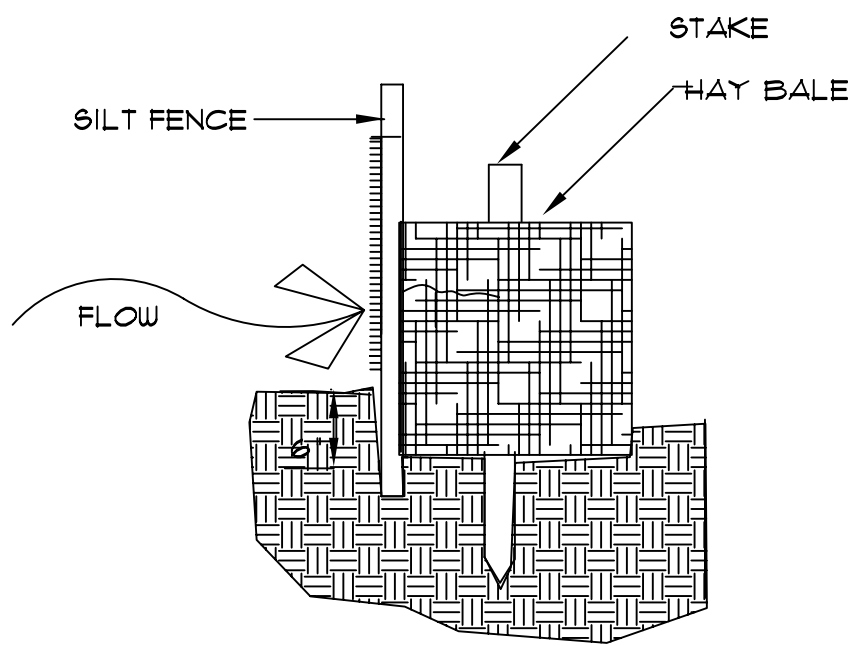
GRADING PHASE NOTES

- THE GRADING PHASE OF THE DEVELOPMENT MUST INCLUDE THE INSTALLATION OF THE FOLLOWING EROSION & SEDIMENT CONTROL DEVICES DURING THE GRADING PHASE:
- 1) MAINTENANCE AND INSTALLATION OF ADDITIONAL SILT FENCE (Sd1)
 - 2) MAINTENANCE OF CONSTRUCTION EXIT (Co) AND DAILY INSPECTION OF THIS DEVICE.
 - 3) MAINTENANCE OF SEDIMENT INLET TRAPS (Sd2)
 - 4) MAINTENANCE OF SEDIMENT STORAGE AREAS
 - 5) MAINTENANCE AND INSTALLATION OF ADDITIONAL ORANGE SAFETY FENCING
 - 6) INSTALLATION OF STORM OUTLET PROTECTION (St) TO ALL STORM PIPE OUTFALLS.
 - 7) INSTALLATION AND MAINTENANCE OF THE CONCRETE WASHOUT AREA PRIOR TO THE POURING OF ANY CONCRETE OR MIXING OF MASONRY PRODUCTS.
 - 8) DUST CONTROL (Du) SHALL BE IMPLEMENTED UNTIL GRASSING IS ESTABLISHED.

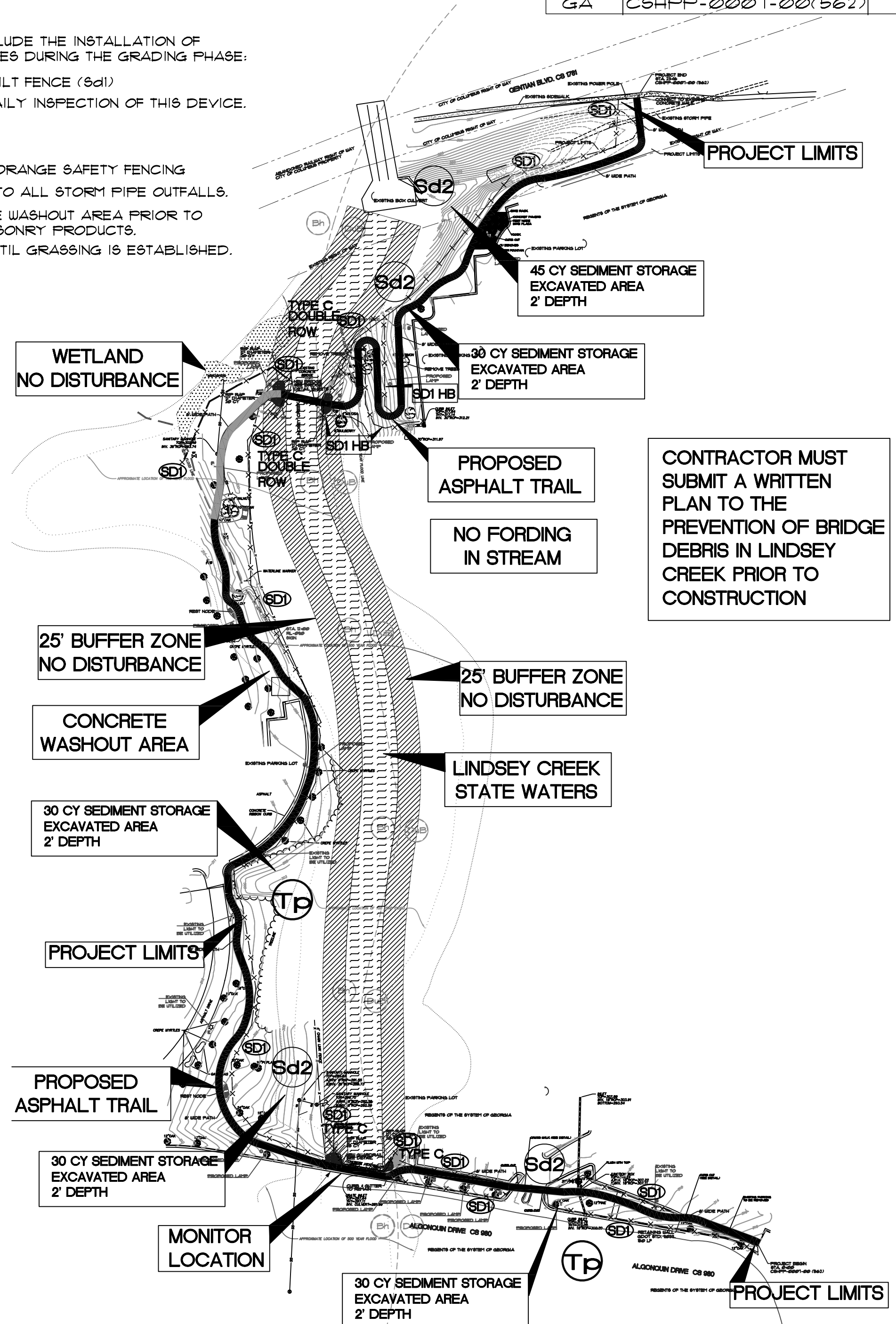


SECTION A-A'
PROFILE VIEW
CONCRETE WASHOUT AREA
N.T.S.

- NOTES:
1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
 2. VEHICLE TRACKING CONTROL IS REQUIRED AT CONCRETE WASHOUT ENTRANCE IF ACCESS TO CONCRETE WASHOUT AREA IS OFF PAVEMENT.
 3. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND/OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTE CONCRETE.
 4. WASTE MATERIAL FROM CONCRETE WASHOUT OPERATIONS MUST BE REMOVED AND LEGALLY DISPOSED OR WHEN IT HAS ACCUMULATED TWO THIRDS OF THE NET STORAGE CAPACITY OF THE STRUCTURE.
 5. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT AN APPROVED WASTE SITE.
 6. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY LOCAL AUTHORITIES.
 7. WASHOUT AREA SHALL BE CLEAN AND FREE OF CONCRETE RESIDUE PRIOR TO REMOVAL OF DEVICE. ALL PROPER BMP'S AND EPD REGULATIONS FOR DISPOSAL SHALL BE FOLLOWED.

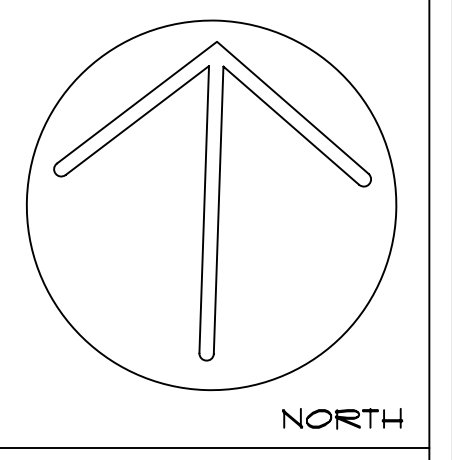
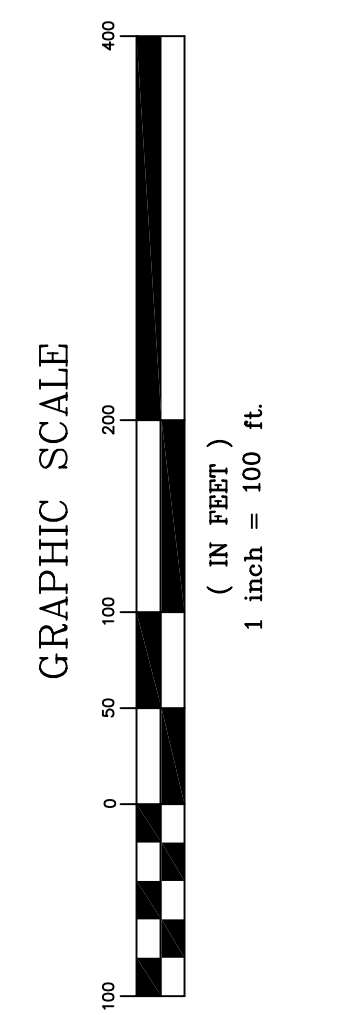


Sd1-HB Silt Fence with Hay Bale



GRADING PHASE
1" = 100'

| | | | | |
|-------|--------------------|-----------|--------------|------------------|
| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS | REVISIONS |
| GA | CSHPP-0007-00(562) | 17 | 19 | DATE DESCRIPTION |



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TIFTON, GA. 31794
Phone: 229.382.0003

GEORGIA
Professional Seal
STEPHEN T. RAKESTRAW
10-7-09
Certified Design Professional # 0000002144

PROJECT:
MULT-USE TRAIL
COLUMBUS, GA

CLIENT:
COLUMBUS STATE UNIVERSITY

SHEET TITLE:
GRADING PHASE

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DATE: 10/09
SCALE: 1" = 100'

SHEET NO.:
17
of 19

| PRACTICE | CONSTRUCTION EXIT | DUST CONTROL | SEDIMENT BARRIER | DISTURBED AREA STABILIZATION (WITH MULCH) | DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) | DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING) | SEDIMENT BARRIER type C | SEDIMENT INLET TRAP | SEDIMENT BARRIER SILT FENCE HAY BALE | TOPSOILING |
|------------|-------------------|--------------|------------------|---|---|---|-------------------------|---------------------|--------------------------------------|------------|
| MAP SYMBOL | | | | | | | | | | |

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

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.

ALL DISTURBED AREAS NOT DESIGNATED FOR PAVING OR STRUCTURES SHALL BE STABILIZED WITH TEMPORARY AND PERMANENT VEGETATION Ds1 and Ds2.

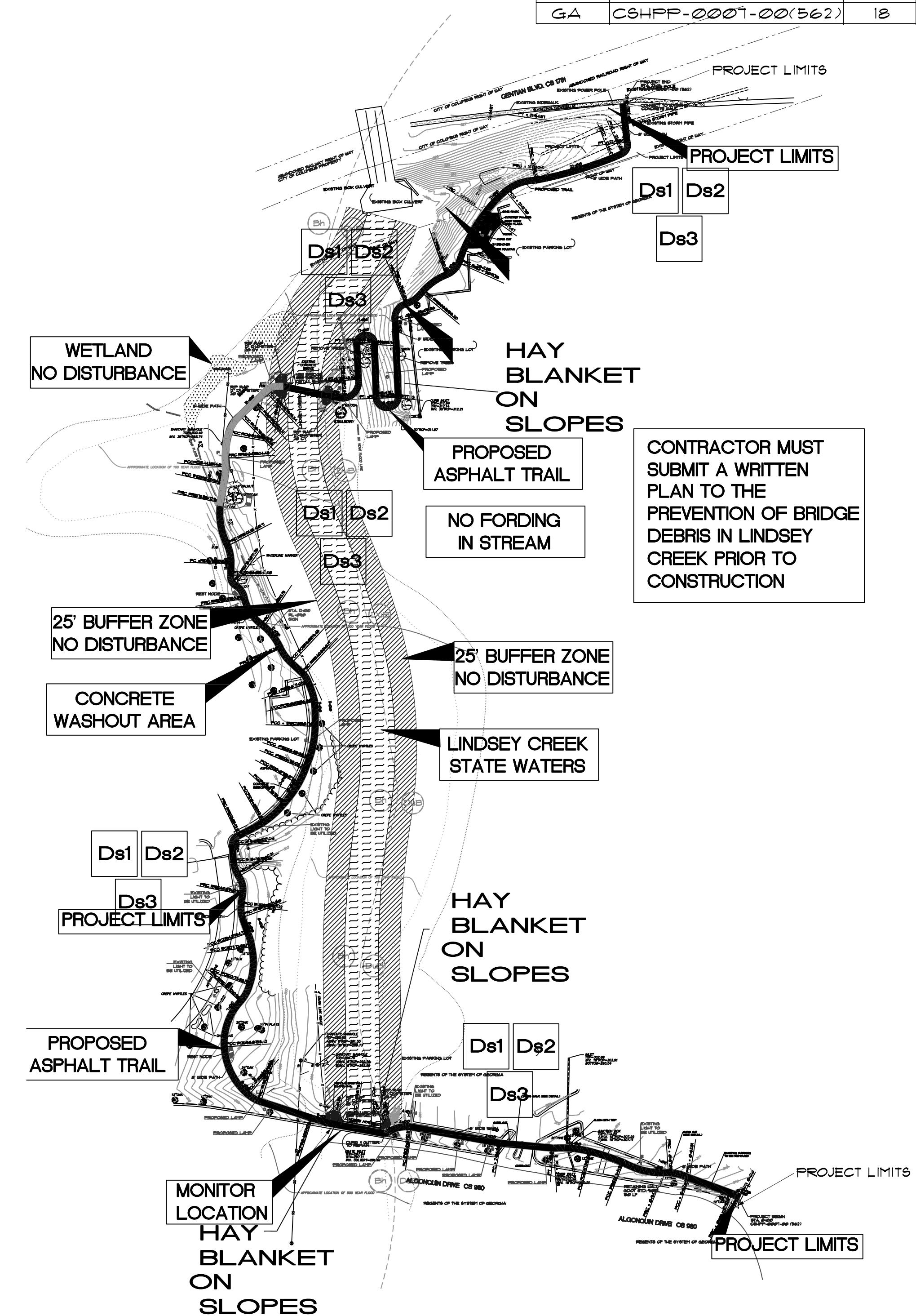
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

FINAL PHASE NOTES

THE FINAL PHASE OF THE DEVELOPMENT MUST INCLUDE THE INSTALLATION OF THE FOLLOWING EROSION & SEDIMENT CONTROL DEVICES DURING THE FINAL PHASE:

- 1) INSTALL HAY BLANKETS TO STABILIZE THE FILL SLOPES OVER 3/1 SLOPES.
- 2) THE USE OF Ds1, AND Ds2 SHALL BE USED DURING ALL PHASES TO PREVENT THE MIGRATION OF SOIL AND DUST CONTROL.
- 3) REMOVAL OF SILT FENCE (Sd1) SHALL BE DONE AFTER SITE IS STABILIZED.
- 4) REMOVAL OF CONSTRUCTION EXITS SHALL BE DONE AFTER PAVING IS INSTALLED.
- 5) REMOVAL OF CONCRETE WASHOUT AREA SHALL BE DONE AFTER ALL MASONRY AND CONCRETE IS POURED. PROPER CLEAN UP AREA SHALL BE DONE SEE DETAIL SHEET C400.
- 6) REMOVAL OF THE TEMPORARY SEDIMENT POND SHALL BE DONE AFTER THE SITE WORK IS COMPLETE AND THE GROUND COVER IS STABILIZED.

| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS | REVISIONS |
|-------|--------------------|-----------|--------------|------------------|
| GA | CSHPP-0007-00(562) | 18 | 19 | DATE DESCRIPTION |



Ds1 HAY MULCH AT 2' THICK

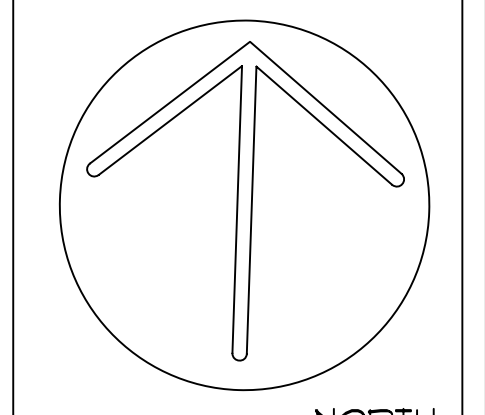
Grassing Schedule

| Species | Rate/Acre | Dates | Fertilizer (6-12-12) | N-Top Dressing Rates |
|------------------------------|-----------------|----------|----------------------|---|
| Temporary Ds2 | | | | |
| Weeping Love | 4lb | 2/1-6/21 | 0.75 Tons/Acre | 50-100 lbs/ac. |
| Grass | 3lb | 9/1-12/1 | 0.75 Tons/Acre | 50-100 lbs/ac. |
| Rye | 40lb | 4/1-7/15 | 0.75 Tons/Acre | 50-100 lbs/ac. |
| Browntop Millet | | | | Apply in spring following seeding Apply in spill applications when high rates are used |
| Permanent Ds3 | | | | |
| Common Bermuda (Hulled)PLS | 10lb | 3/1-6/31 | 0.75 Tons/Acre | 50-100 lbs/ac. |
| Common Bermuda (Unhulled)PLS | Block seed Only | 4/1-6/1 | 0.4 Tons/Acre | 50-100 lbs/ac |
| Centipede | | | | Apply in spring following seeding Apply in spill applications when high rates are used |
| Lime | 2 Tons | | | |
| Straw Mulch | 2 Tons | | | |

Notes:
 1. Lime and Fertilizer shall be applied Prior to permanent seeding.
 2. Straw Mulch shall be applied immediately after seeding, regardless of planting method.
 3. Any delay of 10 days in construction will require mulching of cleared areas.
 4. The term "pure live seed" is used to express the quality of seed, even if it is not shown on the label, pure live seed (pls) is expressed as a percentage of seeds are pure and will germinate

FINAL PHASE

1" = 100'



Rakestraw & Associates
 Planning • Design • Environmental
 23 TY TY OMEGA RD.
 TIFTON, GA. 31794
 Phone: 229.382.0003



PROJECT:
 MULT-USE TRAIL
 COLUMBUS, GA
 CLIENT:
 COLUMBUS STATE UNIVERSITY

SHEET TITLE:
 FINAL PHASE

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DATE: 10/09
 SCALE: 1" = 100'

SHEET NO.:
18
 of 19

EROSION AND SEDIMENT CONTROL NOTES

1. **DESCRIPTION:** The project is located within the limits of Columbus, Muscogee County. The project consists of the development of a 8' wide asphalt path and pedestrian bridge. The project site is located within Land Lot 33, 8th District Muscogee County, Georgia. Current land use is a college campus.

2. **DEVELOPER/OWNER:** MICHAEL E. MEDLOCK
PRIMARY PERMITTEE: 4225 UNIVERSITY AVENUE
 COLUMBUS, GA.
 (706) 565-3465

3. **24-HOUR LOCAL CONTACT:** MICHAEL E. MEDLOCK
 (706) 565-3465

4. **SITE OF PROJECT:** The affected area of the project site is 2.4 acres.

5. **ACTIVITY SCHEDULE:** THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES. The detailed schedule is on this sheet of these plans.

6. **STORMWATER AND SEDIMENT MANAGEMENT SYSTEMS:**
Erosion Control Program: Clearing will be kept to an absolute minimum. Vegetation and mulch will be applied to applicable areas immediately after grading is complete. Land disturbing will be scheduled to limit exposure of bare soils to erosive elements.

Sediment Control Program: Type A silt fence will be installed as shown on these plans.
 All designs will conform to and work will be performed in accordance with the standards and specifications set forth in the "Manual for Erosion and Sediment Control in Georgia".

7. **CRITICAL AREAS:** No areas of this project are expected to have erosion problems. Areas of potential sedimentation problems due to excavation work will be protected by silt fences as shown on the plans.

8. **SOILS:** Information about soils on these plans comes from the "Soil Survey of Richmond County, Georgia". Soils in the affected area are listed in the soils table on this sheet of the plans.

9. **VEGETATIVE PLAN:** The vegetative plan is shown on this sheet of the plans. After satisfactory stand of grass has been obtained, remove silt fence and grass disturbed areas.

10. **100 YEAR FLOOD PLAIN:** The proposed project is within the 100 Year Floodplain.

11. **SAFETY PROTECTION:** Construction activities will be performed in compliance with all applicable laws, rules, and regulations.

12. **MAINTENANCE PROGRAM:** Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional measures shall be implemented to control or treat the sediment source.

13. **STATE WATERS:** The Project crosses state waters.

14. **DUST CONTROL:** Ingress and Egress of the site shall be controlled by BMP's for dust control and sediment tracking. Maintenance of Construction Exits shall be down to prevent dirt and sediment on construction routes.

15. **ENGINEER SITE VISITS:** The design engineer shall be informed (7) seven days before clearing to visit the site to inspect the clearing phase of the project. Site Visits will be performed by the design engineer will inspect all phases of the erosion and sediment control plans on site. These visits are in addition to the requirements of the NPDES General Permit. The engineer shall inspect the site within (7) days after initial construction starts.

16. **STREAM BUFFERS:** No Construction Activities also including non-exempt activities shall not be conducted with the undisturbed stream buffer as measured from the westered vegetation without first acquiring necessary variances and permits.

17. **STORM WATER POLLUTANTS:** All stormwater discharge areas shall be monitored along with preventive measures and BMP's will be installed to prevent stormwater pollutants during construction and once completed.

18. **PLAN AMENDMENTS:** Any deviation from plans including hydraulic components shall be approved and certified by the design engineer.

19. **WASTE MATERIALS:** Any waste materials shall NOT be discharged to state waters, except as authorized by a Section 404 permit.

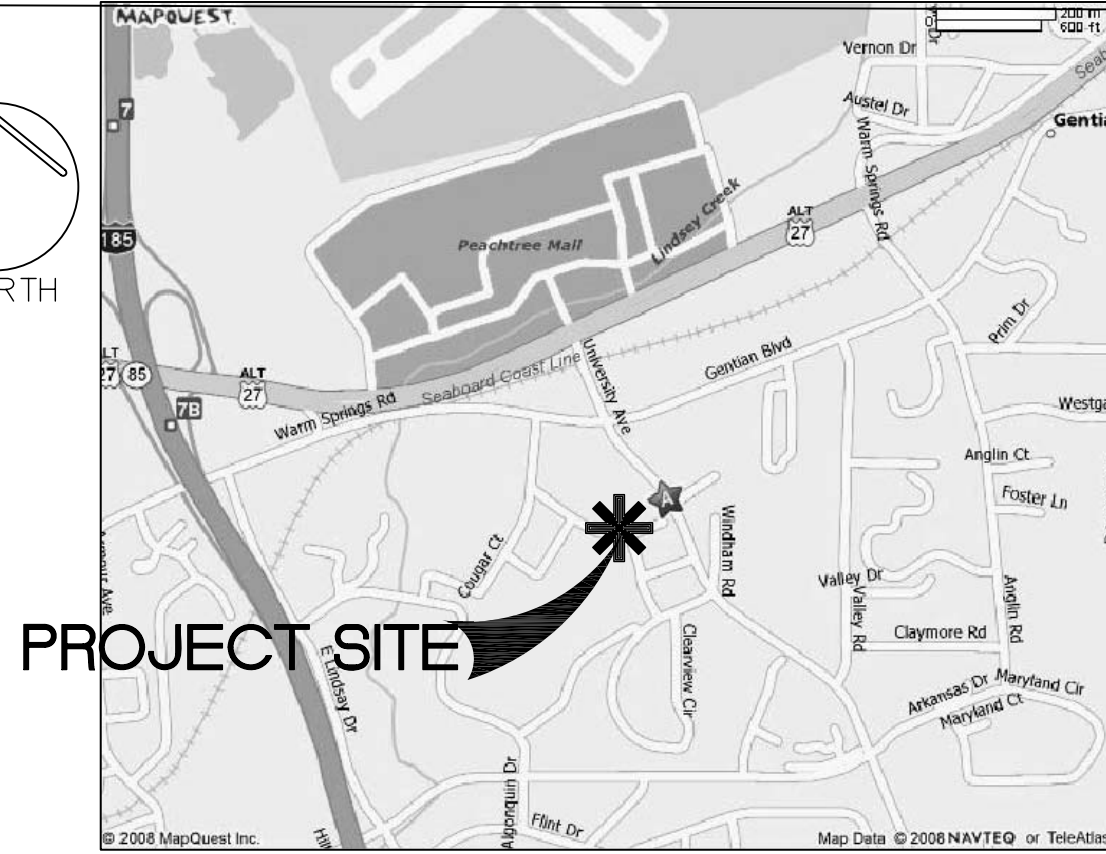
ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURE METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER.

20. HAZARDOUS WASTE MATERIALS:

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THOSE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCD FILE AT THE JOB SITE CONSTRUCTION TRAILER AFFECTS. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCD AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTE WILL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND GENERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORM WATER. IT SHALL BE THE RESPONSIBILITY THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

| CONSTRUCTION SCHEDULE | | ACTIVITY | | | | | | | | | | | | | | | |
|--|------------------------------------|----------|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|
| | | 2009 | NOV | DEC | JAN | FEB | MAR | APR | | | | | | | | | |
| CONSTRUCTION BEGIN-Start of Clearing Phase | INITIAL PHASE | | | | | | | | | | | | | | | | |
| CLEARING AND GRUBBING | GRADING PHASE & TRAIL CONSTRUCTION | | | | | | | | | | | | | | | | |
| GRASSING | FINAL PHASE | | | | | | | | | | | | | | | | |
| REMOVAL OF TEMPORARY EROSION MEASURES | COMPLETION | | | | | | | | | | | | | | | | |



PROJECT SITE

PROJECT LOCATION MAP NTS

SOIL DESCRIPTIONS

DuB: Dothan-Urban land complex, 2 to 5 percent slopes well drained soils

Bh: Bibb sandy loam, 0 to 2 percent slope poorly drained

Sampling Frequency:

- The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, samples must be taken within forty-five (45) minutes of:
 - the accumulation of the minimum amount of rainfall for the qualifying event, if the storm water discharge to a monitored receiving water or from a monitored outfall has begun at or prior to the accumulation;
 - the beginning of any storm water discharge to a monitored receiving water or from a monitored outfall, if the discharge begins after the accumulation of the minimum amount of rainfall for the qualifying event.
- However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.
- Sampling by the permittee shall occur for the following events:
 - For each area of the site that discharges to a receiving stream, the first rain event that reaches or exceeds 0.5 inch and allows for monitoring during normal business hours (Monday thru Friday, 8:00 AM to 5:00 PM and Saturday 8:00 AM to 5:00 PM when construction activity is being conducted by the Primary permittee) that occurs after all clearing and grubbing operations have been completed in the drainage area of the location selected as the representative sampling location.
 - In addition to (a) above, for each area of the site that discharges to a receiving stream, the first rain event that reaches or exceeds 0.5 inch and allows for monitoring during normal business hours that occurs either 30 days after the first sampling event or after all mass grading operations have been completed in the drainage area of the location selected as the representative sampling location, whichever comes first.
 - At the time of sampling performed pursuant to (a) and (b) above, if BMPs are found to be properly designed, installed and maintained, no further action is required. If BMPs in any area of the site that discharges to a receiving stream are not properly designed, installed and maintained, corrective action shall be defined and implemented within 2 business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained and
 - Existing construction activities, i.e. those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.
- Note that the Permittee must check to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for monitoring at any time of the day or week.

Reporting:

- The applicable permittees are required to submit a summary of the monitoring results to the EPD at the address shown in Part I.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittees to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.
- Each permittee must retain copies of all monitoring results reported by that permittee in accordance with this Part. In addition to other record keeping requirements, the monitoring information shall include:
 - The date, exact place, and time of sampling or measurements;
 - The name(s) of the individual(s) who performed the sampling and measurements;
 - The date(s) analyses were performed;
 - The time(s) analyses were initiated;
 - The name(s) of the individual(s) who performed the analyses;
 - References and written procedures, when available, for the analytical techniques or methods used; g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc. used to determine these results; and
 - Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU."

Retention of Records:

- A copy of all Notices of Intent submitted to EPD;
 - A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
 - The design professional's report of the results of the inspection conducted in accordance with part IV.A.5. of this permit;
 - A copy of all monitoring information, results, and reports required by this permit;
 - A copy of all inspection reports generated in accordance with Part IV.2.4.a. of this permit;
 - A copy of all violation summaries and violation summary reports generated in accordance with part III.D.2. of this permit; and
 - Daily rainfall information collected in accordance with Part IV.D.4.a.(1)(c) of this permit.
- Copies of all Notices of Intent, Notices to Termination, reports, plans, monitoring reports, monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

I CERTIFY UNDER THE PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED UPON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS!

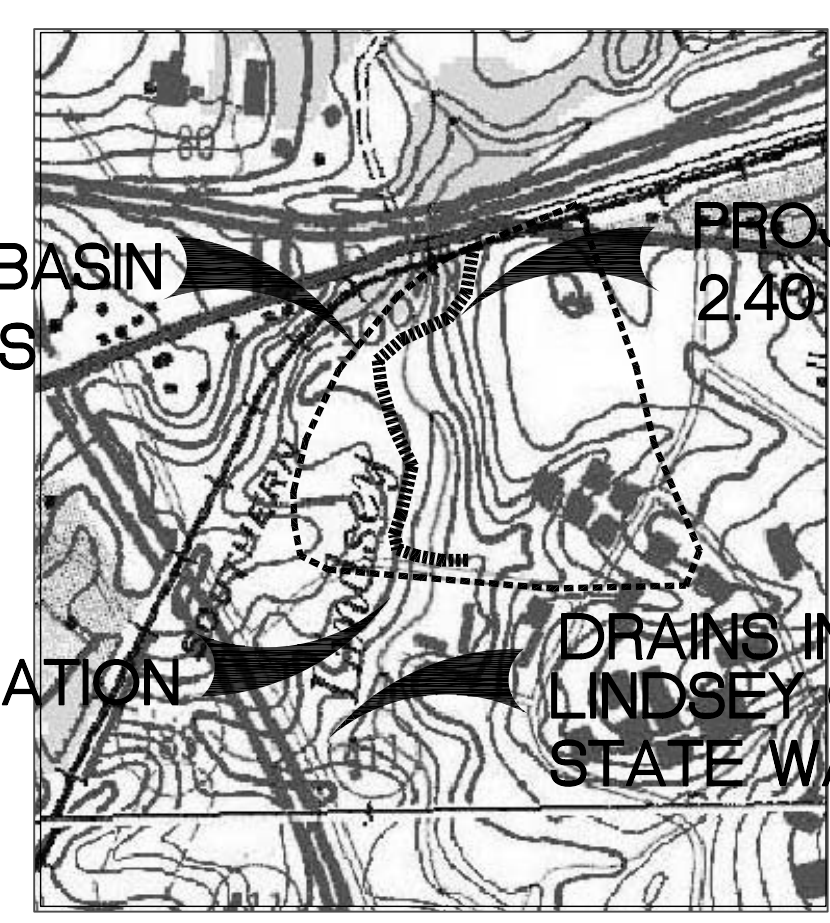
Owner's Printed Name: Tom Helton
 Signature: Tom Helton
 Title: VP for Bus. & F.N.
 Date: 5/1/2009

| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|-------|--------------------|-----------|--------------|
| GA | CSHFP-0007-00(562) | 19 | 19 |

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |

DRAINAGE BASIN 27.7 ACRES

PROJECT SITE 2.4 ACRES



MONITOR LOCATION

DRAINS INTO LINDSEY CREEK STATE WATERS

DRAINAGE BASIN MAP NTS

NPDES INFORMATION

OUTFALL: NONE
 LAND USE: COLLEGE CAMPUS
 ACREAGE: ON SITE 2.4 ACRES
 DRAINAGE BASIN 27.7 ACRES
 NAME OR RECEIVING DRAINAGE BASIN: LINDSEY CREEK

SEDIMENT STORAGE

67 CY OF SEDIMENT STORAGE PER ACRE
 2.4 ACRES x = 160.8 CY REQUIRED STORAGE
 EXCAVATED AREAS = 200 CY OF STORAGE

WATER QUALITY

- SEDIMENT FOR AREAS DISTURBED SHALL BE RETAINED BY THE BEDDIMENT STORAGE AREA.
- STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.
- CONSTRUCTION RELATED MATERIALS, WASTES, SPILLS, OR RESIDUES SHALL BE RETAINED ON SITE TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.
- ALL CONSTRUCTION PERSONNEL ARE TO BE AWARE OF THE REQUIRED BMP'S AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE.
- DURING CONSTRUCTION, DISPOSAL OF MATERIALS AND POTENTIAL POLLUTANTS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY ON SITE PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL ON ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.

SOIL DESCRIPTIONS

DuA - Dothe Urban Land Complex
 0-3% slopes moderately well drained
 Fnc - Fuquay Urban Land Complex
 2-8% slopes well drained
 Ra - Rains Loamy Sand
 0-2% slopes poorly drained

STORMWATER CALCULATIONS

ON SITE ACRES = 2.4
 TOTAL DRAINAGE BASIN 27.7 ACRES
 EXISTING CN = 68
 PREDEVELOPMENT RUNOFF = 150.68 cfs
 (25 YEAR STORM)

POST DEVELOPMENT CN = 69
 POST DEVELOPMENT RUNOFF = 152.9 cfs
 (25 YEAR STORM)



Rakestraw Associates
 Planning • Design • Environmental

83 TY TY OMEGA ROAD
 TIFTON, GA. 31793
 Phone: 229.382-0009



10-7-09
 Certified Design Professional # 000002144

PROJECT: MULTI-USE TRAILS COLUMBUS STATE UNIVERSITY

COLUMBUS, MUSCOGEE COUNTY, GEORGIA

SHEET TITLE:

EROSION, SEDIMENT, & POLLUTION CONTROL NOTES

PROJECT NUMBER:
 DATE: 10-7-09
 SCALE: NTS

SHEET NO.:
 19
 of 19

APPENDIX B

NEPHELOMETRIC TURBIDITY UNIT (NTU) TABLE

| SURFACE WATER DRAINAGE AREA SQUARE MILES | | SURFACE WATER DRAINAGE AREA SQUARE MILES | | | | | | | | | | | | | | |
|--|------|--|--------|----------|----------|----------|------------|------------|------------|--------------|--------------|--------------|----------------|----------------|----------------|------------------|
| | | 0-4.99 | 5-9.99 | 10-24.99 | 25-49.99 | 50-99.99 | 100-249.99 | 250-499.99 | 500-999.99 | 1000-2499.99 | 2500-4999.99 | 5000-9999.99 | 10000-24999.99 | 25000-49999.99 | 50000-99999.99 | 100000-249999.99 |
| 100-150 | 150 | 150 | 200 | 400 | 750 | 1500 | 3000 | 6000 | 12000 | 24000 | 48000 | 96000 | 192000 | 384000 | 768000 | 1536000 |
| 150-200 | 200 | 200 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | 16000 | 32000 | 64000 | 128000 | 256000 | 512000 | 1024000 | 2048000 |
| 200-250 | 250 | 250 | 300 | 600 | 1200 | 2400 | 4800 | 9600 | 19200 | 38400 | 76800 | 153600 | 307200 | 614400 | 1228800 | 2457600 |
| 250-300 | 300 | 300 | 350 | 700 | 1400 | 2800 | 5600 | 11200 | 22400 | 44800 | 89600 | 179200 | 358400 | 716800 | 1433600 | 2867200 |
| 300-350 | 350 | 350 | 400 | 800 | 1600 | 3200 | 6400 | 12800 | 25600 | 51200 | 102400 | 204800 | 409600 | 819200 | 1638400 | 3276800 |
| 350-400 | 400 | 400 | 450 | 900 | 1800 | 3600 | 7200 | 14400 | 28800 | 57600 | 115200 | 230400 | 460800 | 921600 | 1843200 | 3686400 |
| 400-450 | 450 | 450 | 500 | 1000 | 2000 | 4000 | 8000 | 16000 | 32000 | 64000 | 128000 | 256000 | 512000 | 1024000 | 2048000 | 4096000 |
| 450-500 | 500 | 500 | 550 | 1100 | 2200 | 4400 | 8800 | 17600 | 35200 | 70400 | 140800 | 281600 | 563200 | 1126400 | 2252800 | 4505600 |
| 500-550 | 550 | 550 | 600 | 1200 | 2400 | 4800 | 9600 | 19200 | 38400 | 76800 | 153600 | 307200 | 614400 | 1228800 | 2457600 | 4915200 |
| 550-600 | 600 | 600 | 650 | 1300 | 2600 | 5200 | 10400 | 20800 | 41600 | 83200 | 166400 | 332800 | 665600 | 1331200 | 2662400 | 5324800 |
| 600-650 | 650 | 650 | 700 | 1400 | 2800 | 5600 | 11200 | 22400 | 44800 | 89600 | 179200 | 358400 | 716800 | 1433600 | 2867200 | 5734400 |
| 650-700 | 700 | 700 | 750 | 1500 | 3000 | 6000 | 12000 | 24000 | 48000 | 96000 | 192000 | 384000 | 768000 | 1536000 | 3072000 | 6144000 |
| 700-750 | 750 | 750 | 800 | 1600 | 3200 | 6400 | 12800 | 25600 | 51200 | 102400 | 204800 | 409600 | 819200 | 1638400 | 3276800 | 6553600 |
| 750-800 | 800 | 800 | 850 | 1700 | 3400 | 6800 | 13600 | 27200 | 54400 | 108800 | 217600 | 435200 | 870400 | 1740800 | 3481600 | 6963200 |
| 800-850 | 850 | 850 | 900 | 1800 | 3600 | 7200 | 14400 | 28800 | 57600 | 115200 | 230400 | 460800 | 921600 | 1843200 | 3686400 | 7372800 |
| 850-900 | 900 | 900 | 950 | 1900 | 3800 | 7600 | 15200 | 30400 | 60800 | 121600 | 243200 | 486400 | 972800 | 1945600 | 3891200 | 7782400 |
| 900-950 | 950 | 950 | 1000 | 2000 | 4000 | 8000 | 16000 | 32000 | 64000 | 128000 | 256000 | 512000 | 1024000 | 2048000 | 4096000 | 8192000 |
| 950-1000 | 1000 | 1000 | 1050 | 2100 | 4200 | 8400 | 16800 | 33600 | 67200 | 134400 | 268800 | 537600 | 1075200 | 2150400 | 4300800 | 8601600 |