LEGEND:

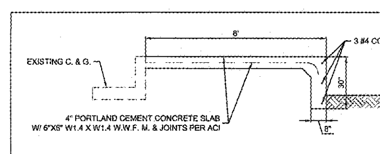
AI	ANGLE IRON
ASP	ASPHALT
BL	BUILDING LINE
BWF	BARB WIRE FENCE
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CMF	CONCRETE MONUMENT FOUND
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CTP	CRIMPED TOP PIPE
DI	DROP INLET
EP	EDGE OF PAVEMENT
FH	FIRE HYDRANT
GW	GUY WIRE
HWF	HOG WIRE FENCE
IPF	IRON PIN FOUND
IPS	IRON PIN SET (1/2"REBAR)
LL	LAND LOT
LLL	LAND LOT LINE
MH	MANHOLE
MR	METAL ROD
N/F	NOW OR FORMERLY
OTP	OPEN TOP PIPE
PB	POWER BOX
PL	PROPERTY LINE
PP	POWER POLE
P/TP	POWER & TELEPHONE POLE
RB	REBAR
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT OF WAY
SP	SERVICE POLE
TB	TELEPHONE BOX
WM	WATER METER
WV	WATER VALVE

LEGEND:

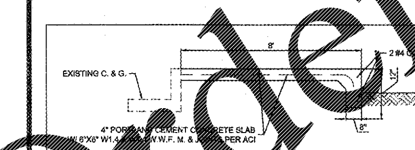
BP	BRADFORD PEAR
CB	CATCH BASIN
C&G	CURB & GUTTER
CO	CLEANOUT
CPP	CORRUGATED PLASTIC PIPE
DB	DEED BOOK
DS	DOWNSPOUT
FF	FINISH FLOOR
FOB	FIBER OPTIC BOX
GV	GAS VALVE
ICV	IRRIGATION CONTROL VALVE
JB	JUNCTION BOX
LP	LIGHT POLE
MFP	METAL FENCE POST
PB	PLAT BOOK
TBM	TEMPORARY BENCH MARK
— GAS —	GAS LINE
— P —	UNDERGROUND POWER
— S —	SEWER LINE
— T —	UNDERGROUND TELEPHONE
— W —	WATER LINE
—o—o—	UNDERGROUND FIBER OPTIC

GRADING SYMBOLS LEGEND

120	EXISTING CONTOURS
125	PROPOSED CONTOURS
20.5	EXISTING SPOT ELEVATION
x 20.50	PROPOSED SPOT ELEVATION
x 20.50 (boxed)	PROPOSED SPOT ELEVATION (TOP OF CURB)
x G.@W. = 20.5	PROPOSED SPOT ELEVATION AT RETAINING WALL LOCATION
x 20.50± / x 20.50± (boxed)	INTERPRETED EXISTING SPOT ELEVATION. CONTRACTOR TO FIELD VERIFY & MAKE FIELD DETERMINATION /ADJUSTMENT AS REQUIRED
	EXISTING STORM SEWER (TO REMAIN)
	PROPOSED STORM SEWER
	PROPOSED RETAINING WALL
	STORM WATER SYSTEM INSTALLED BY CITY
◎	JUNCTION BOX, JB (1011A)
	DOUBLE WING CATCH BASIN, DWCB (1034D)
	CURB INLET, CI (1019A TYPE E) WITH WEIR
•	CLEAN OUT, CO
	DROP INLET, DI (1019A TYPE C)
	SAFETY END SECTION, SES (1122)



SECTION 1 / C-2
NOT TO SCALE



SECTION 2 / C-2
NOT TO SCALE

Know what's below. Call before you dig

IF YOU DIG GEORGIA...
CALL US FIRST!
UTILITIES PROTECTION CENTER
IT'S THE LAW

24 HR EMERGENCY CONTACT
Mr. SCOTT MORGAN
PHONE: 706-265-3246

GRADING PLAN

NORTH

SCALE: 1" = 30'
30 0 30 60 90 FEET

GRADING NOTES

1. ALL AREAS TO RECEIVE PAVEMENT, STRUCTURES OR FILL MATERIAL SHALL BE STRIPPED OF ANY ORGANIC MATERIAL, TOPSOIL, AND DEBRIS PRIOR TO CONSTRUCTION.
2. ONCE STRIPPING HAS BEEN COMPLETED, ALL AREAS TO RECEIVE FILL SHOULD BE PROOF-ROLLED IN THE PRESENCE OF A REPRESENTATIVE OF THE SOILS ENGINEER. SOFT AREAS ENCOUNTERED DURING PROOF-ROLLING SHALL BE STABILIZED BY COMPACTION OR UNDERCUT.
3. ALL FILL MATERIAL TO BE UTILIZED ON THE PROJECT SITE SHALL BE FREE OF ORGANIC OR OTHERWISE DELETERIOUS MATERIALS AND COMPACTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY AND AT 3%± OPTIMUM MOISTURE CONTENT AS PER STANDARD PROCTOR ASTM D698 UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL REPORT AS LISTED BELOW. ALL STRUCTURAL FILL, ALL BUILDING FILL AREAS AND THE TOP TWO (2) FEET OF FILL UNDER PAVEMENT SUBGRADE SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY AND AT 3%± OPTIMUM MOISTURE CONTENT (HAVING LESS THAN 30 PLASTICITY INDEX) AS PER STANDARD PROCTOR ASTM D698 UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL REPORT AS LISTED BELOW.
4. EARTHMOVING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT BY SAILORS ENGINEERING ASSOCIATES, INC. (SEA) INC., DATED FEBRUARY 26, 2018: "GEOTECHNICAL INVESTIGATION DAWSON COUNTY HIGH SCHOOL CAREER ACADEMY". SEA JOB #181-017. IF CONFLICTS EXIST BETWEEN THIS SET OF DRAWINGS AND THE GEOTECHINCAL REPORT FOR EARTHMOVING OPERATIONS, THE GEOTECHNICAL REPORT SHALL SUPERSEDE THE NOTES SHOWN IN THIS SET.
5. ALL SITE PREPARATION SHOULD BE MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. INSPECTIONS AND TESTING FOR ALL UNDERCUT AND FILL OPERATIONS AS WELL AS THE UTILIZATION OF ACCEPTABLE OFF-SITE BORROW MATERIALS SHOULD BE PERFORMED. THE OWNER, AT HIS OPTION, MAY HAVE DENSITY TESTS PERFORMED TO VERIFY THAT SPECIFIC COMPACTION IS OBTAINED.
6. CUT OR FILL SLOPE SHOULD NOT BE STEEPER THAN 2H:1V. ALL PROPOSED SLOPES SHOULD BE OVERBUILT AND CUT BACK TO THE PROPOSED GRADES, EXPOSING THE FIRM COMPACTED INNER CORE. THE EXCAVATION FOR THE SLOPES SHOULD BE MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. VERTICAL CUTS EXCEED 5 FEET SHOULD BE BRACED AS REQUIRED BY OSHA REGULATIONS FOR SAFETY.
7. SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SPOT ELEVATIONS WHICH DO NOT APPEAR TO BE CONSISTENT WITH THE CONTOURS AND SLOPES. SPOT ELEVATIONS SHOWN ALONG CURB & GUTTER DESIGNATE THE PROPOSED GRADE AT THE FACE OF THE CURB UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL INSTALL APPROPRIATE EROSION CONTROL MEASURES PRIOR TO ANY LAND DISTURBANCE ACTIVITIES.
9. THE CONTRACTOR SHALL ADJUST ALL MANHOLE COVERS, VALVE COVERS, CLEAN OUTS, VAULTS, BOXES, AND GRATES EXISTING AND PROPOSED, TO "AS-CONSTRUCTED" FINISHED GRADE.
10. IF GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO INVESTIGATE SUCH ADJUSTMENTS.
11. IF A CONFLICT EXISTS BETWEEN PLANS OR/AND SPECIFICATIONS OR/AND SOIL REPORT, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR CLARIFICATION.
12. PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, THE CONTRACTOR SHALL VERIFY THE INVERTS OF EXISTING STRUCTURES AND INFORM THE OWNER AND THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
13. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED AND EXISTING PIPES ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS AFTER CONSTRUCTION.
14. ALL PROPOSED DRAINAGE STRUCTURES ARE TO BE INSTALLED PER CITY OF DAWSONVILLE & GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AS REQUIRED.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A MARKED-UP SET OF DESIGN DRAWINGS SHOWING "AS-BUILT" CONDITIONS. THESE "RECORD DRAWINGS" SHALL BE MADE AVAILABLE TO THE ENGINEER AND/ OR THE CITY/COUNTY INSPECTOR UPON REQUEST. THE MARK-UPS SHALL BE KEPT ON-SITE AT ALL TIMES AND SHALL BE UTILIZED TO DEVELOP FINAL RECORD DRAWINGS.
16. THE CONTRACTOR SHALL PROVIDE TO THE OWNER AND ENGINEER OF RECORD, A SURVEYED "AS-BUILT" DRAWING OF EACH DETENTION FACILITY SHOWING POND TOPOGRAPHY (2' CONTOURS AND SPOT ELEVATIONS) AND SIZES AND INVERTS OF ALL OUTLET CONTROLS, AND APPURTENANCES. ADDITIONALLY, THE CONTRACTOR SHALL INCLUDE IN THE AS-BUILT DRAWINGS ALL NECESSARY IMPROVEMENTS, NOTES & CERTIFICATIONS REQUIRED BY THE PERMITTING AUTHORITY.
17. ALL ROOF AND CANOPY DRAIN PIPES TO HAVE A 3' MINIMUM COVER AND 1.0% MINIMUM SLOPES OR AS SPECIFIED ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE NECESSARY FIELD ADJUSTMENTS TO AVOID ALL POSSIBLE UNDERGROUND PIPING CONFLICTS WHEN ROOF DRAIN PIPES ARE INSTALLED.
18. BEFORE ANY TRAFFIC OVER A STORM DRAIN IS ALLOWED, THE CONTRACTOR SHALL PROVIDE AN ADEQUATE DEPTH AND WIDTH OF COMPACTED BACKFILL TO PROTECT THE STORM STRUCTURE FROM DAMAGE OF DISPLACEMENT. ANY DEBRIS OR SILT THAT RESTRICTS THE FLOW THROUGH A PIPE SHALL BE REMOVED BY THE CONTRACTOR AS OFTEN AS NECESSARY TO MAINTAIN DRAINAGE. ALL PIPE STRUCTURES SHALL BE CLEANED BEFORE THE WORK IS ACCEPTED.
19. ANCHOR COLLARS ARE REQUIRED FOR ALL PIPES WITH SLOPES GREATER THAN 20%.
20. IT IS CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL STORM SEWER STRUCTURE SIZES PRIOR TO CONSTRUCTION. ANY STORM STRUCTURE SHOULD BE SIZED TO ACCOMMODATE ALL PIPES ASSOCIATED WITH THIS STRUCTURE.
21. ADDITIONAL DRAINAGE STRUCTURES MAY BE NECESSARY AS FIELD CONDITIONS WARRANT.
22. THIS WET DETENTION POND IS USED AS A SEDIMENTATION POND FOR SEDIMENT AND EROSION CONTROL DURING CONSTRUCTION PHASE II. SEE C-4.2 FOR CLEAN OUT ELEVATION.
23. STORMWATER STRUCTURES ARE PRIVATELY OWNER / MAINTAINED.
24. A 25' UNDISTURBED VEGETATIVE BUFF TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT MAINTAINED. NO NON-EXEMPT ACTIVITIES SHALL TAKE PLACE IN THE BUFFER AREAS WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
25. ALL CUT AND FILL SLOPES SHALL BE SURFACED ROUGHENED AND VEGETATED WITHIN THREE (3) DAYS AFTER GRADING IS COMPLETE.

MATERIAL NOTES

1. STORM SEWER MATERIALS SHALL BE INSTALLED AS SHOWN ON THE PLANS.
2. STORM SEWER MATERIAL DESIGNATIONS SHALL BE FURTHER DEFINED AS FOLLOWS:
   "HDPE" - HIGH DENSITY POLYETHYLENE PER AASHTO M294 OR ASTM F2306 (ADS N-12 OR EQUIVALENT), INSTALLED PER ASTM D2321

   "HDPEWT" - HDPE WATER TIGHT PER AASHTO M294 OR ASTM F2306 AND WITH JOINTS PER ASTM D3212 (ADS N-12 WT OR EQUIVALENT), INSTALLED PER ASTM D2321

   "RCP" - REINFORCED CONCRETE PIPE, CLASS PER ASTM C76/AASHTO M170 (MIN. CLASS III) AND JOINTS PER ASTM C443. ALL RCP USED SHALL BE WITH WATER TIGHT JOINTS WITH O RING GASKETS PER ASTM C443 (MIN. PRESSURE 13 PSI). REINFORCED CONCRETE PIPE CLASS IV SHALL BE USED WHEN COVER IS LESS THAN 2' OR GREATER THAN 13'.

   "PVC" - SDR 26 PVC PER ASTM D3034
3. PRECAST STRUCTURES MAY BE USED AT THE CONTRACTOR'S OPTION.
4. ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 P.S.I. UNLESS OTHERWISE NOTED.
5. PROVIDE ANCHOR COLLARS ON ALL PIPES AT OR EXCEEDING 10% SLOPE FOR RCP AND 14% FOR CMP AND HDPE.
6. PROVIDE WATER-TIGHT JOINTS ON ALL STORM SEWER PIPES AT OR EXCEEDING 20% SLOPE AND/OR ON ALL PIPES DISCHARGING THROUGH DETENTION POND EMBANKMENT.
7. PROVIDE ANTI-SEEP COLLARS ON ALL PIPES DISCHARGING THROUGH DETENTION POND EMBANKMENT.

ROBERTSON LOIA ROOF
ARCHITECTS ENGINEERS
3460 Preston Ridge Road, Suite 275 . Alpharetta, GA. 30005
770.674.2600 / www.[illegible].com

GEORGIA REGISTERED ... T. TAYLOR ROBERTSON 5/7/18

Dawson County
College and Career Academy
Dawsonville, Georgia
FOR:
Dawson County Schools
Overall Squarefootage = 35,800 SF
FTE = 1625
(Facility No. 642-0198)
IUs = 74 (Existing) + 11 (New) = 85 IUs

REVISIONS

GRADING PLAN

DATE 05-07-2018

PROJECT NUMBER 17-303

C - 2

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