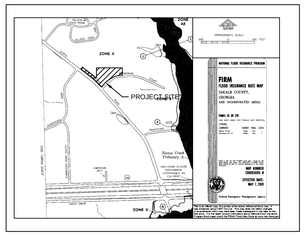
# DUNWOODY
# PERNOSHAL PARK

## FEMA FLOODPLAIN:

THE PROPOSED SITE IS NOT LOCATED WITHIN THE FLOODPLAIN AS DEFINED BY FIRM COMMUNITY PANEL NUMBER 13089C0012H AND 13089C0016H DATED MAY 7, 2001.




## PROJECT NARRATIVE:

PROJECT SCOPE INCLUDES THE DEVELOPMENT OF A FORMER MEDICAL SITE. THE SITE IS VACANT, AND WILL BE DEVELOPED INTO CITY PARK SPACE. IMPROVEMENTS INCLUDE CONTINUATION OF A MULTI-USE TRAIL, TERRACE SEATING, IMPROVED STREETSCAPE, SURFACE PARKING, PAVILION STRUCTURE WITH BATHROOMS, MULTI-USE COURTS, AND FIELDS.

## DEKALB COUNTY WATER AND SEWER WORK LIST (SEE SHEET C5-00) :

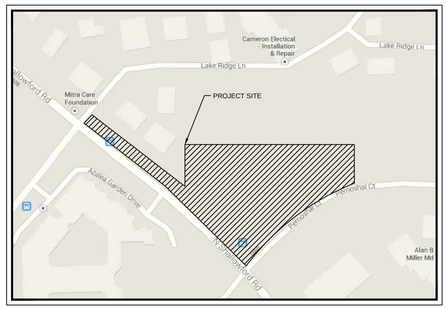
PROPOSED-
1 (ONE) - 2.0" IRRIGATION METER
1 (ONE) - ABOVE GROUND 2.0" RPZ BACKFLOW DEVICE IN WEATHERPROOFED ENCLOSURE PER DCDWM STANDARDS
1 (ONE) - 1.5" DOMESTIC METER
1 (ONE) - 1.5" DCV IN BELOW GRADE BOX
1 (ONE) - 6" SEWER LATERAL CONNECTION

EXISTING-
WATER - 6" CI IN PERNOSHAL COURT
SANITARY SEWER - 8" DIP IN PERNOSHAL COURT

## CONTACTS

| | |
|---|---|
| PRIMARY PERMITTEE/OWNER: | DUNWOODY PARKS AND RECREATION<br>41 PERIMETER CENTER EAST<br>SUITE 250<br>DUNWOODY, GA 30346<br>PHONE: (678) 382-6857<br>CONTACT: BRENT WALKER |
| LANDSCAPE ARCHITECT: | KIMLEY-HORN AND ASSOCIATES, INC.<br>817 WEST PEACHTREE STREET, NW<br>THE BILTMORE, SUITE 601<br>ATLANTA, GA 30308<br>PHONE: (404) 419-8700<br>FAX: (404) 419-8701<br>CONTACT: RAY STRYCHALSKI |
| ARCHITECT: | KACENA DESIGN, LLC<br>2944 RIDGELOCK COURT<br>ATLANTA, GA 30360<br>PHONE: (404) 803-3869<br>CONTACT: CHRIS KACENA |
| CIVIL ENGINEER: | KIMLEY-HORN AND ASSOCIATES, INC.<br>817 WEST PEACHTREE STREET, NW<br>THE BILTMORE, SUITE 601<br>ATLANTA, GA 30308<br>PHONE: (404) 419-8700<br>FAX: (404) 419-8701<br>CONTACT: BEN SKIDMORE |
| ELECTRICAL ENGINEER: | WOMACK AND ASSOCIATES CONSULTING ENGINEERS<br>2300 LAKE PARK DRIVE<br>SUITE 250<br>SMYRNA, GA 30080<br>PHONE: (770) 458-3005<br>FAX: (770) 458-8388<br>CONTACT: BILL WOMACK |

1959 PERNOSHAL COURT
PID# 18 344 01 001
CITY OF DUNWOODY, GA 30346




LOCATION MAP

NOT TO SCALE

LAND LOT 345 - 18TH DISTRICT
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

# ZONING: PD

OVERALL SITE AREA = 4.78 ACRES
TOTAL DISTURBED AREA = 5.10 ACRES
OFFSITE IMPROVEMENTS = 0.43 ACRES

24-HOUR CONTACT
BRENT WALKER
(678) 382-6857

811 Know what's below. Call before you dig.

PRIOR TO LAND DISTURBING CONSTRUCTION THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY OF DUNWOODY.

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GSWCC Georgia Soil and Water Conservation Commission
BENJAMIN W SKIDMORE
Level II Certified Design Professional
Certification Number 0000068765
Issued: 06/21/2013 Expires: 06/21/2016

GEORGIA REGISTERED No. PE038066 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE
2-13-15


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| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY PERNOSHAL PARK

COVER SHEET

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C0-00 |


Drawing name: K:\MIT_JRK\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C0-00_COVER.dwg C0-00 COVER Feb 25, 2015 11:13am by: rafael.lawrence
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# ABBREVIATIONS

## GENERAL

| | |
|---|---|
| AASHTO | AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS |
| ADA | AMERICANS WITH DISABILITIES ACT |
| ARCH | ARCHITECT/ARCHITECTURAL |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS |
| BLDG | BUILDING |
| C.O. | CERTIFICATE OF OCCUPANCY |
| DEMO | DEMOLISH |
| DNR | DEPARTMENT OF NATURAL RESOURCES |
| DOT | DEPARTMENT OF TRANSPORTATION |
| DRC | DEVELOPMENT REVIEW COMMITTEE |
| EIT | ENGINEER IN TRAINING |
| EPA | ENVIRONMENTAL PROTECTION AGENCY |
| EPD | ENVIRONMENTAL PROTECTION DIVISION |
| EX | EXISTING |
| EXT | EXTENSION |
| FEMA | FEDERAL EMERGENCY MANAGEMENT AGENCY |
| F.I.R.M. | FLOOD INSURANCE RATE MAP |
| FIS | FLOOD INSURANCE STUDY |
| GAB | GRADED AGGREGATE BASE |
| GDOT | GEORGIA DEPARTMENT OF TRANSPORTATION |
| GPS | GLOBAL POSITIONING SYSTEM |
| GRTA | GEORGIA REGIONAL TRANSPORTATION AUTHORITY |
| GSWCC | GEORGIA SOIL AND WATER CONSERVATION COMMISSION |
| INV | INVERT |
| LDP | LAND DISTURBANCE PERMIT |
| LLC | LIMITED LIABILITY CORPORATION |
| MAINT | MAINTENANCE |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MEP | MECHANICAL, ELECTRICAL, AND PLUMBING |
| MUTCD | MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES |
| NDPES | NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM |
| NFIP | NATIONAL FLOOD INSURANCE PROGRAM |
| NFPA | NATIONAL FIRE PROTECTION AGENCY |
| NRCS | NATURAL RESOURCES CONSERVATION SERVICE |
| NOD | NOTICE OF DECISION |
| PE | PROFESSIONAL ENGINEER |
| PRO | PROPOSED |
| REV | REVISION |
| RLS | REGISTERED LAND SURVEYOR |
| SAP | SPECIAL ADMINISTRATIVE PERMIT |
| SLUP | SPECIAL LAND USE PERMIT |
| SPI | SPECIAL PUBLIC INTEREST |
| STD | STANDARD |
| TEMP | TEMPORARY |
| TRANS | TRANSITION |
| TYP | TYPICAL |
| USGS | UNITED STATES GEOLOGICAL SURVEY |

## EROSION CONTROL AND WATER QUALITY

| | |
|---|---|
| BMP | BEST MANAGEMENT PRACTICE |
| $d_{50}$ | AVERAGE RIP-RAP STONE DIAMETER |
| $d_{max}$ | MAXIMUM RIP-RAP STONE DIAMETER |
| $d_{min}$ | MINIMUM RIP-RAP STONE DIAMETER |
| $T_c$ | TIME OF CONCENTRATION |

## SPOT ELEVATION/GRADING

| | |
|---|---|
| BC | BOTTOM OF CURB |
| BG | BOTTOM GRADE AT WALL |
| BW | BOTTOM OF WALL |
| HP | HIGH POINT |
| LP | LOW POINT |
| P | PAVEMENT |
| TC | TOP OF CURB |
| TG | TOP GRADE AT WALL |
| TW | TOP OF WALL |

# ABBREVIATIONS

## DIMENSIONS AND MEASUREMENTS

| | |
|---|---|
| AC | ACRE(S) |
| CF | CUBIC FOOT/FEET |
| CFS | CUBIC FEET PER SECOND |
| cm | CENTIMETER(S) |
| cm/sec | CENTIMETERS PER SECOND |
| CY | CUBIC YARD(S) |
| DEG | DEGREE(S) |
| DIA/Ø | DIAMETER |
| ELEV | ELEVATION |
| FF | FINISHED FLOOR ELEVATION |
| FFE | FINISHED FLOOR ELEVATION |
| FT | FOOT/FEET |
| FT/SEC | FEET PER SECOND |
| GA | GAUGE |
| GAL | GALLON(S) |
| GPM | GALLONS PER MINUTE |
| GSF | GROSS SQUARE FEET |
| H | HEIGHT |
| H:V | HORIZONTAL:VERTICAL |
| HORIZ | HORIZONTAL |
| in | INCH(ES) |
| in/hr | INCHES PER HOUR |
| km | KILOMETER(S) |
| LB | POUND |
| LF | LINEAR FOOT/FEET |
| m | METER(S) |
| mi | MILE(S) |
| MIN | MINIMUM |
| mm | MILLIMETER |
| mph | MILES PER HOUR |
| MSF | 1,000 SQUARE FEET |
| MSL | MEAN SEAL LEVEL |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| PSI | POUNDS PER SQUARE INCH |
| SF | SQUARE FEET |
| SY | SQUARE YARD |
| T | THICKNESS |
| VERT | VERTICAL |
| W | WIDTH |
| YR | YEAR |

## STORM WATER

| | |
|---|---|
| c | RUNOFF COEFFICIENT |
| CI | CURB INLET |
| DI | DROP INLET |
| DWCB | DOUBLE WING CATCH BASIN |
| FB | FREEBOARD |
| FD | FRENCH DRAIN |
| FES | FLARED END SECTION |
| FPL | FLOODPLAIN FW FLOODWAY |
| HGL | HYDRAULIC GRADE LINE |
| HODI | HOODED DROP INLET |
| HW | HEADWALL |
| HWE | HIGH WATER ELEVATION |
| JB | JUNCTION BOX |
| MES | MITERED END SECTION |
| MH | MANHOLE |
| n | MANNING'S ROUGHNESS COEFFICIENT |
| OCS | OUTLET CONTROL STRUCTURE |
| Q | FLOW |
| Q# | # YEAR FLOW |
| Qmax | MAXIMUM FLOW |
| Qmin | MINIMUM FLOW |
| RD | ROOF DRAIN |
| SD | STORM DRAIN |
| ST | STORM SEWER |
| SWCB | SINGLE WING CATCH BASIN |

# ABBREVIATIONS

## SITE, STAKING, AND SURVEY

| | |
|---|---|
| BC | BACK OF CURB |
| BM | BENCH MARK |
| BOC | BACK OF CURB |
| BSL | BUILDING SETBACK LINE |
| C | LENGTH OF CHORD |
| CN | CURVE NUMBER |
| C&G | CURB AND GUTTER |
| C/G | CURB AND GUTTER |
| CL | CENTERLINE |
| CMF | CONCRETE MONUMENT FOUND |
| CONC | CONCRETE |
| E | EASTING |
| EOP | EDGE OF PAVEMENT |
| EP | EDGE OF PAVEMENT |
| FC | FACE OF CURB |
| FOC | FACE OF CURB |
| IPF | IRON PIN FOUND |
| IPS | IRON PIN SET |
| I | LENGTH OF BEARING |
| L | LENGTH OF CURVE |
| L# | LINE NUMBER |
| LL | LAND LOT |
| LLC | LAND LOT CORNER |
| LLL | LAND LOT LINE |
| MON | MONUMENT |
| N | NORTHING |
| NAD | NORTH AMERICAN DATUM |
| P# | POINT NUMBER |
| PC | POINT OF CURVATURE |
| PCC | POINT OF CONTINUOUS CURVATURE |
| PL | PROPERTY LINE |
| P/L | PROPERTY LINE |
| POB | POINT OF BEGINNING |
| PRC | POINT OF REVERSE CURVATURE |
| PT | POINT OF TANGENCY |
| R | RADIUS OF CURVE |
| R/W | RIGHT-OF-WAY |
| ROW | RIGHT-OF-WAY |
| SBL | SETBACK LINE |
| SR | STATE ROUTE |
| T | LENGTH OF TANGENT |

## UTILITY

| | |
|---|---|
| ACCMP | ALUMINUM COATED CORRUGATED METAL PIPE |
| BCCMP | BITUMINOUS COATED CORRUGATED METAL PIPE |
| BFP | BACKFLOW PREVENTER |
| CATV | CABLE TELEVISION CI CAST IRON |
| CMP | CORRUGATED METAL PIPE |
| CO | CLEAN OUT |
| CPP | CORRUGATED PLASTIC PIPE |
| CV | CHECK VALVE |
| DDC | DOUBLE DETECTOR CHECK |
| DIP | DUCTILE IRON PIPE |
| DW | DOMESTIC WATER SERVICE |
| FDC | FIRE DEPARTMENT CONNECTION |
| FH | FIRE HYDRANT |
| FM | FORCE MAIN |
| FOC | FIBER OPTIC CABLE |
| FW | FIRE WATER SERVICE GV GATE VALVE |
| HDPE | HIGH DENSITY POLYETHYLENE |
| HYD | FIRE HYDRANT |
| LDPE | LOW DENSITY POLYETHYLENE |
| OHC | OVERHEAD CABLE TELEVISION LINE |
| OHP | OVERHEAD POWER LINE |
| OHT | OVERHEAD TELEPHONE LINE |
| PIV | POST INDICATOR VALVE |
| PP | POWER POLE |
| PT&C | POWER, TELEPHONE, AND CABLE TELEVISION LINE |
| PVC | POLYVINYL CHLORIDE |
| RCP | REINFORCED CONCRETE PIPE |
| SAN | SANITARY SEWER |
| SS | SANITARY SEWER |
| SSMH | SANITARY SEWER MANHOLE |
| UGC | UNDERGROUND CABLE TELEVISION LINE |
| UGP | UNDERGROUND POWER LINE |
| UGT | UNDERGROUND TELEPHONE LINE |
| VCP | VITRIFIED CLAY PIPE |

# LINETYPES

## CONTOURS

| | |
|---|---|
| 998 | 1' OR 2' CONTOUR |
| 1000 | 5' OR 10' CONTOUR |

## FENCES

| | |
|---|---|
| | FENCE LINE |
| | FENCE LINE/GUARDRAIL |
| | FENCE LINE |
| X X X X | SILT FENCE |

## GAS & FUEL

| | |
|---|---|
| GAS | NATURAL GAS LINE |
| 3-G | 3" DIAMETER NATURAL GAS LINE |
| 4-G | 4" DIAMETER NATURAL GAS LINE |
| FUEL | FUEL LINE |
| DIESEL | DIESEL FUEL LINE |

## SANITARY SEWER

| | |
|---|---|
| SAN | SANITARY SEWER LINE |
| 4-SS | 4" DIAMETER SANITARY SEWER LINE |
| 6-SS | 6" DIAMETER SANITARY SEWER LINE |
| 8-SS | 8" DIAMETER SANITARY SEWER LINE |
| 10-SS | 10" DIAMETER SANITARY SEWER LINE |
| 12-SS | 12" DIAMETER SANITARY SEWER LINE |
| ST/SS | COMBINED SANITARY SEWER LINE |
| FM | FORCE MAIN |

## WATER

| | |
|---|---|
| W | WATER LINE |
| 2-W | 2" DIAMETER WATER LINE |
| 3-W | 3" DIAMETER WATER LINE |
| 4-W | 4" DIAMETER WATER LINE |
| 4-DW | 4" DIAMETER DOMESTIC WATER LINE |
| 4-FW | 4" DIAMETER FIRE WATER LINE |
| 6-W | 6" DIAMETER WATER LINE |
| 6-DW | 6" DIAMETER DOMESTIC WATER LINE |
| 6-FW | 6" DIAMETER FIRE WATER LINE |
| 8-W | 8" DIAMETER WATER LINE |
| 8-DW | 8" DIAMETER DOMESTIC WATER LINE |
| 8-FW | 8" DIAMETER FIRE WATER LINE |
| 10-W | 10" DIAMETER WATER LINE |
| 10-DW | 10" DIAMETER DOMESTIC WATER LINE |
| 10-FW | 10" DIAMETER FIRE WATER LINE |
| 12-W | 12" DIAMETER WATER LINE |
| 12-DW | 12" DIAMETER DOMESTIC WATER LINE |
| 12-FW | 12" DIAMETER FIRE WATER LINE |
| 42-W | 42" DIAMETER WATER LINE |

## WATER RELATED

| | |
|---|---|
| | STORM SEWER LINE |
| STORM | STORM SEWER LINE |
| CHW | CHILLED WATER LINE |
| HW | HOT WATER LINE |
| FD | FRENCH DRAIN |
| IRR | IRRIGATION LINE |
| RD | ROOF DRAIN |
| RW | RAW WATER LINE |
| STEAM | STEAM LINE |

## UTILITIES

| | |
|---|---|
| CATV | CABLE TELEVISION |
| DB | DUCT BANK |
| FOC | FIBER OPTIC CABLE |
| OHP | OVERHEAD POWER |
| OHT | OVERHEAD TELEPHONE |
| OHP-OHC | OVERHEAD POWER & CABLE |
| OHP-OHT | OVERHEAD POWER & TELEPHONE |
| OXY | OXYGEN SUPPLY |
| P | POWER |
| PT&C | POWER, TELEPHONE, & CABLE |
| T | TELEPHONE |
| UGC | UNDERGROUND CABLE TELEVISION |
| UGP | UNDERGROUND POWER |
| UGP-UGT | UNDERGROUND POWER & TELEPHONE |
| UGT | UNDERGROUND TELEPHONE |

## MISCELLANEOUS

| | |
|---|---|
| | CENTERLINE |
| XC | CROSS COUNTRY PATH |
| C | CUT LINE |
| F | FILL LINE |
| ~~ | MULCH BERM |
| | PROPERTY LINE |
| | SETBACK LINE |
| SOIL BERM | SOIL BERM |
| TPF | TREE PROTECTION FENCE |

# SYMBOLS

## DEMOLITION

- REMOVE EXISTING OBJECT
- REMOVE UTILITIES & FENCING
- REMOVE STRUCTURE
- REMOVE ASPHALT PAVEMENT
- REMOVE CONCRETE, CURB AND GUTTER
- REMOVE GRAVEL
- REMOVE TREE

## GRADING AND DRAINAGE/SPOT ELEVATION

- DRAINAGE DIRECTIONAL ARROW
- SLOPE DIRECTIONAL ARROW
- 209.76 SPOT ELEVATION (ELEVATION AT INTERSECTION OF LINES)

## SITE ITEMS

- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- HEAVY DUTY ASPHALT PAVEMENT
- COMPACTED GRAVEL PAVEMENT
- PAVERS (REFER TO PLANS FOR DETAILS)
- REINFORCED TURF (REFER TO PLANS FOR DETAILS)
- COMPACTED SOIL
- FLUME COVER
- RIGHT TURN TRAFFIC DIRECTIONAL ARROW
- THROUGH TRAFFIC DIRECTIONAL ARROW
- LEFT TURN TRAFFIC DIRECTIONAL ARROW
- THROUGH/RIGHT TURN TRAFFIC DIRECTIONAL ARROW
- THROUGH/LEFT TURN TRAFFIC DIRECTIONAL ARROW
- HANIDCAP PARKING
- # NUMBER OF PARKING SPACES
- # LAND LOT NUMBER(S)
- HANDICAP RAMP

## STORM WATER

- DROP INLET
- HOODED DROP INLET
- DROP INLET WITH 2' x 3' GRATE
- SQUARE WEIR TYPE DROP INLET
- ROUND WEIR TYPE DROP INLET
- SINGLE WING CATCH BASIN
- DOUBLE WING CATCH BASIN
- HEADWALL
- FLARED END SECTION
- JB JUNCTION BOX
- RD ROOF DRAIN
- ST STORMCEPTOR

## SANITARY SEWER

- SS SANITARY SEWER MANHOLE
- CO SANITARY SEWER CLEANOUT
- GREASE TRAP/GREASE TRAP CHAMBER

## WATER

- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION/SIAMESE CONNECTION
- CK CHECK VALVE
- GV GATE VALVE
- IRRIGATION VALVE/WATER VALVE
- PIV POST INDICATOR VALVE
- WV WATER VALVE
- W WATER METER
- WATER METER/DOUBLE DETECTOR CHECK VALVE/ BACK FLOW PREVENTER (REFER TO PLAN LABELS)

## UTILITY

- G GAS METER
- P POWER MANHOLE
- POWER POLE/LIGHT POLE
- UTILITY POLE
- T TELEPHONE/TELECOMMUNICATIONS MANHOLE

# SYMBOLS

## GENERAL

- GRAPHIC SCALE
- HALF SIZE DRAWING
- NORTH DIRECTIONAL ARROW
- # REVISION NUMBER
- DETAIL # / SHEET # NAME / ADDITIONAL DESCRIPTION / ADDITIONAL DESCRIPTION — DETAIL CALLOUT


Kimley»Horn


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| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

DUNWOODY PERNOSHAL PARK

ABBREVIATIONS, LINETYPES, AND SYMBOLS

DUNWOODY PARKS AND RECREATION

41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

GEORGIA REGISTERED No. PE038266 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE
2-13-15

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C0-01 |


Drawing name: K:\AMT_LRO\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C0-00_COVER.dwg C0-01 Feb 25, 2015 11:13am by: rafael.lawrence
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## PROJECT INFORMATION:

1. PROJECT:
   DUNWOODY PERNOSHAL PARK
   1959 PERNOSHAL COURT
   PID# 18 344 01 001
   CITY OF DUNWOODY, GA 30346

2. OWNER INFORMATION:
   DUNWOODY PARKS AND RECREATION
   41 PERIMETER CENTER EAST
   DUNWOODY, GA 30346
   PHONE: (678) 382-6857
   CONTACT: BRENT WALKER

3. CIVIL ENGINEER AND LANDSCAPE ARCHITECT:
   KIMLEY-HORN AND ASSOCIATES, INC.
   THE BILTMORE
   SUITE 601
   817 W. PEACHTREE STREET, NW
   ATLANTA, GEORGIA 30308
   CONTACT: RAY STRYCHALSKI
   TEL: (404) 419-8700
   FAX: (404) 419-8701

4. 24-HOUR CONTACT:
   BRENT WALKER
   CITY OF DUNWOODY
   (678) 382-6857

## PROJECT SITE INFORMATION:

1. PROJECT LOCATION:
   DUNWOODY PERNOSHAL PARK
   1959 PERNOSHAL COURT
   PID# 18 344 01 001
   CITY OF DUNWOODY, GA 30346

2. PROJECT SITE AREA:
   DISTURBED AREA: ± 5.10 ACRES
   TOTAL AREA: ± 4.78 ACRES

## SURVEY INFORMATION:

1. SURVEYOR:
   TERRAMARK
   (SURVEY INFOMRATION PROVIDED BY CITY OF DUNWOODY)

2. SURVEY NOTES:
   SURVEY DATED: 03-12-2014

3. BENCHMARK INFORMATION:
   DATUM IS BASED ON MEAN SEA LEVEL.

4. FLOOD MAP INFORMATION:
   SUBJECT PROPERTY DOES NOT LIE WITHIN FLOOD HAZARD AREA AS PER FIRM PANEL 13089C0012H AND 13089C0016H DATED MAY 7, 2001.

5. UTILITY INFORMATION:
   THE UNDERGROUND UTILITIES SHOWN ON THE SURVEY HAVE BEEN LOCATED FROM FIELD INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED ALL THE UNDERGROUND UTILITIES.

## ZONING INFORMATION:

PD

## CITY OF DUNWOODY INFORMATION:

1. NOTIFICATIONS:

   NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION. INSPECTOR CONTACT INFORMATION WILL BE COMMUNICATED AT THE PRE-CONSTRUCTION MEETING

2. EROSION CONTROL VIOLATIONS:

   THE CONTRACTOR MUST STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE CITY OF DUNWOODY INSPECTOR AND/OR THE PROFESSIONAL ENGINEER.

3. WATER SYSTEM:

   HYDRANT(S) AND MAIN(S) SHALL BE INSTALLED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.

## CONTRACTOR RESPONSIBILITIES

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

   A. THE CONTRACTOR SHALL VERIFY ALL PROPOSED AND EXISTING CONDITIONS INCLUDING UTILITIES (INVERTS, CONNECTIONS, MATERIALS, ETC.) AND DIMENSIONS WITHIN THE LIMITS OF WORK PRIOR TO THE START OF CONSTRUCTION.

   B. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILED BUILDING INFORMATION.

   C. THE CONTRACTOR IS RESPONSIBLE FOR ALL NOTIFICATIONS AND LIAISONS WITH UTILITY COMPANIES DURING THE PROCESS OF LOCATING, RELOCATING, AND TYING INTO PUBLIC UTILITIES.

   D. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR INSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.

2. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

   A. DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.

   B. THE CONTRACTOR SHALL USE MATERIALS AND EMPLOY CONSTRUCTION METHODS IN ORDER TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS. WHERE A CONFLICT OCCURS, THE STRICTEST DESIGN SHALL GOVERN. THE ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY SPECIFIC DEVIATIONS AND OBTAIN ENGINEER'S WRITTEN APPROVAL OF THE SPECIFIC DEVIATION.

   C. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

   D. ALL CONSTRUCTION MUST CONFORM TO THE STANDARDS, SPECIFICATIONS, AND CODES OF THE GOVERNING MUNICIPALITIES.

   E. CONSTRUCTION SHALL MEET ALL STANDARDS SET FORTH IN THE AMERICANS WITH DISABILITIES ACT.

   F. IF THE CONTRACTOR DAMAGES ANY EXISTING UTILITIES DURING CONSTRUCTION, HE SHALL, AT HIS OWN EXPENSE, REPLACE OR REPAIR THE UTILITIES TO ORIGINAL CONDITION AND QUALITY AS APPROVED BY THE OWNER AND REPRESENTATIVE OF THE APPROPRIATE UTILITY COMPANY.

   G. SUFFICIENT BARRICADES, LIGHTS, SIGNS, AND OTHER TRAFFIC CONTROL METHODS IN ACCORDANCE WITH GOVERNING ORDINANCES MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC. SAID CONTROL DEVICES SHALL BE PER THE MANUAL OF TRAFFIC CONTROL DEVICES, M.U.T.C.D., CURRENT EDITION, AND SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION.

   H. TRAFFIC CONTROLS AND OTHER WARNING DEVICES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY WORK ON CITY, COUNTY, OR GEORGIA DEPARTMENT OF TRANSPORTATION ROADS. THEY SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL WORK.

   I. ALL WARNING DEVICES SHALL BE EITHER TYPE I BARRICADES OR DRUMS WITH WARNING LIGHTS ON EVERY OTHER DEVICE. THEY SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION, AND CITY OF ATLANTA STANDARDS FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.

   J. FIRE DEPARTMENT ACCESS SHALL BE MAINTAINED AT ALL TIMES.

   K. CONTRACTOR SHALL SHORE AND BRACE ALL EARTH, FORMS, CONCRETE, STEEL, WOOD, AND MASONRY TO RESIST GRAVITY, EARTH, WIND, THERMAL, CONSTRUCTION, AND MISCELLANEOUS LOADS DURING CONSTRUCTION.

   L. ON-SITE BURIAL OF DEBRIS IS PROHIBITED.

   M. UNLESS OTHERWISE NOTED THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS TO THE ENGINEER. DESIGN DOCUMENTS SHALL NOT BE REPRODUCED AS SHOP DRAWINGS.

   N. IN CASE OF UNFORESEEN CONSTRUCTION COMPLICATIONS OR DISCREPANCIES, THE CONTRACTOR IS TO IMMEDIATELY NOTIFY THE ENGINEER IN WRITING.

   O. ALL REQUIRED TESTING REPORTS SHALL BE AVAILABLE AT THE JOB SITE.

   P. AS-BUILT DRAWINGS OF ROADWAYS, STORM DRAINS, SANITARY SEWER AND WATER LINES, FIELD APPROVAL BY THE ENGINEER, AND ALL APPLICABLE BONDS ARE REQUIRED PRIOR TO FINAL ACCEPTANCE BY THE OWNER.

   Q. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFICATIONS, ALL FILL AREAS MUST BE COMPACTED TO MINIMUM 98% STANDARD PROCTOR FOR TOP 12" UNDER PAVEMENT AND BUILDING SLABS.

   R. CONTRACTOR SHALL MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL EXISTING BUILDINGS THROUGHOUT CONSTRUCTION UNLESS APPROVAL FOR SERVICE INTERRUPTION IS OBTAINED FROM THE OWNERS IN ADVANCE.

   S. CUT AND FILL SLOPES SHALL NOT EXCEED 2:1 H:V.

## DEMOLITION INFORMATION:

1. NOTIFICATIONS:

   THE CONTRACTOR SHALL NOTIFY THE OWNER AND CITY INSPECTOR(S) 24 HOURS PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

2. DISPOSAL GUIDELINES:

   A. ONLY ITEMS SPECIFICALLY NOTED TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE.

   B. REMOVE EXISTING PAVED AREAS AS SHOWN INCLUDING DRIVEWAYS, SIDEWALKS, PARKING AREAS, SERVICE AREAS, EQUIPMENT PADS, AND ALL MISCELLANEOUS PAVING.

   C. ALL DEBRIS RESULTING FROM DEMOLITION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY BY THE CONTRACTOR. BACKFILL ALL TRENCHES AND EXCAVATIONS RESULTING FROM DEMOLITION.

   D. ALL DEMOLISHED MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.

3. UTILITIES:

   A. PRIOR TO REMOVING OR ABANDONING ANY UTILITY THE CONTRACTOR SHALL VERIFY THAT NO UPSTREAM SERVICE WILL BE TERMINATED. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY TERMINATION NOT SHOWN ON THE PLANS.

   B. ALL ABANDONED WATER LINES, STORM SEWER PIPE, SANITARY SEWER PIPES, GAS LINES, OR ANY OTHER ABANDONED UNDERGROUND UTILITY SHALL BE ABANDONED IN PLACE UNLESS NOTED OTHERWISE.

5. GRADING:

   COMPACT AND ROUGH GRADE THE ENTIRE SITE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ANY EXCAVATIONS IN THESE AREAS SHALL BE BACKFILLED, BUT DO NOT RAISE OR LOWER EXISTING GRADES.

## CONCRETE INFORMATION (SITE WORK ONLY):

1. PRODUCT CRITERIA:

   A. UNLESS OTHERWISE NOTED CEMENT SHALL BE TYPE I OR III CONFORMING TO ASTM C150. AGGREGATES SHALL BE NORMAL WEIGHT CONFORMING TO ASTM C33.

   B. CONCRETE SHALL CONFORM TO ACI BUILDING CODE (318-89). UNLESS NOTED CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3,500 P.S.I.

   C. SLUMP SHALL BE 3" TO 5" FOR REGULAR MIX. LARGER SLUMP SHALL BE PERMITTED WITH WATER REDUCING ADMIXTURES AND WRITTEN CONSENT OF THE ENGINEER.

   D. THE RELATIONSHIP BETWEEN MAXIMUM AGGREGATE SIZE TO MINIMUM AMOUNT OF CEMENT IN CONCRETE PAVEMENT (LB. PER C.Y. OR MIX) SHALL BE AS FOLLOWS: 1" - 520, 3/4" - 540, 1/2" - 590, 3/8" - 610.

2. CURING CRITERIA:

   A. CONCRETE CURING SHALL COMPLY WITH ACI 308. CURING PROCESS SHALL START IMMEDIATELY FOLLOWING INITIAL SET. CURING SHALL BE BY CURING COMPOUND.

   B. CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR-ENTRAINED IN ACCORDANCE WITH ACI 318-89 TABLE 4.1.1. NORMAL WEIGHT CONCRETE SLABS SHALL HAVE AIR CONTENT IN ACCORDANCE WITH ACI 302.IR-89 TABLE 5.2.7A.

   C. HOT WEATHER CONCRETING SHALL COMPLY WITH ACI 305. NO CONCRETE ABOVE 90 DEGREES FAHRENHEIT SHALL BE POURED. LOWER CONCRETE TEMPERATURE BY COOLING WATER AND AGGREGATE. FORMS, STEEL, AND SUBGRADE SHALL BE SPRINKLED WITH COLD WATER. AFTER FINISHING CONCRETE USE LIGHT FOG SPRAY UNTIL CURING COMPOUND IS USED.

   D. COLD WEATHER CONCRETING SHALL COMPLY WITH ACI 306. SPECIAL MATERIAL PROCEDURES SHALL BE PROVIDED DURING PLACING AND CURING OF CONCRETE BELOW 40 DEGREES FAHRENHEIT.

   E. CURING, HOT, AND COLD WEATHER CONCRETING PROCEDURES ARE ONLY GIVEN AS A GUIDE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT CONCRETE DAMAGE AND CRACKS. DAMAGED OR CRACKED CONCRETE WILL NOT BE ACCEPTED.

## REINFORCING STEEL INFORMATION (SITE WORK ONLY):

**1. PRODUCT CRITERIA:**

   **A. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 AND GRADE 40 FOR #3 AND SMALLER BARS. MINIMUM LAP 48" DIAMETER.**

   **B. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185, MINIMUM LAP SHALL BE 8".**

   **C. REINFORCING THAT IS WELDED SHALL BE WELDABLE TYPE AND CONFORM TO ASTM A-706.**

## PAVEMENT INFORMATION:

1. PAVEMENT:

   A. ALL MATERIALS, EQUIPMENT, METHODS OF CONSTRUCTION, AND WORKMANSHIP SHALL CONFORM TO THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES, CURRENT EDITION.

   B. SEE PAVEMENT DETAILS ON CONSTRUCTION DOCUMENTS FOR SPECIFIC DESIGN INFORMATION AND REQUIREMENTS.

   C. ALL CURB AND GUTTER TO BE 24" AND CONSTRUCTED OF 3000 P.S.I. CONCRETE UNLESS OTHERWISE NOTED.

2. SIGNING AND STRIPING:

   A. SIGNING AND STRIPING TO BE PROVIDED BY THE CONTRACTOR ACCORDING TO THE DRAWINGS AND SPECIFICATIONS.

   B. ALL STRIPING TO BE THERMOPLASTIC IN ROADWAY. PARKING STRIPING CAN BE STD PAINT.

## EROSION AND SEDIMENT CONTROL INFORMATION:

1. COMPREHENSIVE:

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

   B. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE AT A MINIMUM IN CONFORMANCE WITH THE REQUIREMENTS OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, AND THE CITY OF DUNWOODY CODES GOVERNING EROSION AND SEDIMENTATION CONTROL. 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.

   C. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE STANDARDS SPECIFIED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION, AND CITY OF DUNWOODY STANDARDS.

   **D. 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.**

   E. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

   F. THE CONSTRUCTION OF THE SITE WILL COMMENCE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.

   G. CONSTRUCTION EXITS SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE AND SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE AS CONDITIONS DEMAND, REPAIR, AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OFF SITE ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

## EROSION AND SEDIMENT CONTROL INFORMATION: (continued)

   H. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

   I. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION.

   J. EROSION CONTROL DEVICES ARE TO BE INSTALLED AND FULLY OPERATIONAL PRIOR TO ANY DEMOLITION.

   K. SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171 - TEMPORARY SILT FENCE OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, CURRENT EDITION, THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, AND CITY OF DUNWOODY STANDARDS.

   L. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.

2. DURING CONSTRUCTION:

   A. ON-SITE DUST CONTROL DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL LOCA CODES AND REGULATIONS.

   B. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT HAS REACHED HALF THE HEIGHT OF SILT FENCE UTILIZED FOR EROSION CONTROL.

   C. ALL OPEN SWALES MUST BE GRASSED AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION. STONE FOR RIP-RAP SHALL CONSIST OF ROUGH UN-HEWN QUARRY GRANITE AS NEARLY IN RECTANGULAR SECTION AS PRACTICAL. THE MINIMUM SIZE STONE SHALL WEIGH BETWEEN 75 AND 150 POUNDS AND SHALL BE HAND PLACED AS A LOOSE STONE EMBANKMENT.

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

   E. AT ANY TIME DURING CONSTRUCTION IF IT BECOMES NECESSARY TO PUMP STORM WATER OR GROUNDWATER FROM AN EXCAVATION, THE PUMPED WATER MUST MEET THE TURBIDITY REQUIREMENTS OUTLINED IN THE SITE SPECIFIC COMPREHENSIVE MONITORING PROGRAM. WATER THAT DOES NOT MEET THESE REQUIREMENTS MUST BE FILTERED OR DISCHARGED INTO A TEMPORARY SEDIMENT BASIN UNTIL IT MEETS THE TURBIDITY REQUIREMENTS. ONCE THE TURBIDITY REQUIREMENTS HAVE BEEN MET THE WATER MAY BE DISCHARGED INTO THE STORM SEWER SYSTEM. AS A MINIMUM TURBIDITY TESTS SHOULD BE PERFORMED AS FOLLOWS:

      * DURING DRY CONDITIONS: ONE TEST EVERY TWO WEEKS.
      * DURING WET CONDITIONS: ONE TEST PER WEEK AND AFTER EACH QUALIFYING RAINFALL EVENT.
      * DURING SIGNIFICANT GRADING ACTIVITIES: ONE TEST PER WEEK UNTIL THE SITE IS STABLE.

   THESE SAME REQUIREMENTS APPLY TO ALL AUTHORIZED NON-STORM WATER DISCHARGES UNDER THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES (DNR) ENVIRONMENTAL PROTECTION DIVISION (EPD) GENERAL PERMIT NO. GAR 100000, AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

   F. NO GRADED SLOPE SHALL EXCEED 2H:1V.

## STORM DRAINAGE INFORMATION:

1. PIPES:

   A. UNLESS OTHERWISE NOTED ON THE DRAWING RCP SHALL BE CLASS III WITH "O" RING JOINTS.

   B. THE PIPE MANUFACTURER SHALL SUPPLY A CLASSIFICATION OF THE PIPE SPECIFICATIONS FOR EACH PIPE PRIOR TO INSTALLATION.

   C. PIPE INSTALLATION SHALL CONFORM TO THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES, CURRENT EDITION.

   D. ALL ROOF DRAIN MANIFOLDS SHALL HAVE A MINIMUM SLOPE OF 1.00%.

   E. REFER TO SPEC BOOK FOR ADDITIONAL PIPE SPECIFICATIONS.

2. STRUCTURES:

   A. ALL STRUCTURES SHALL BE MADE OF PRECAST CONCRETE. ALL INVERTS SHALL BE NEATLY FORMED UP TO THE SPRING LINE WITH MORTAR OR BRICK TO INSURE PROPER FLOW.

   B. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL INVERTS AND PIPE SLOPES PRIOR TO INSTALLATION TO ENSURE PROPER COVER AND LENGTHS OF PIPE.

811
Know what's **below.**
**Call** before you dig.

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PHONE (404) 419-8700
WWW.KIMLEY-HORN.COM

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY PERNOSHAL PARK

GENERAL NOTES

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

GEORGIA
REGISTERED
No. PE038066
PROFESSIONAL
ENGINEER
BENJAMIN W. SKIDMORE
2-13-15

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C0-02 |

Drawing name: K:\ATL_LDEV\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C0-00_COVER.dwg C0-02 Feb 25, 2015 11:13am by: rafael.lawrence
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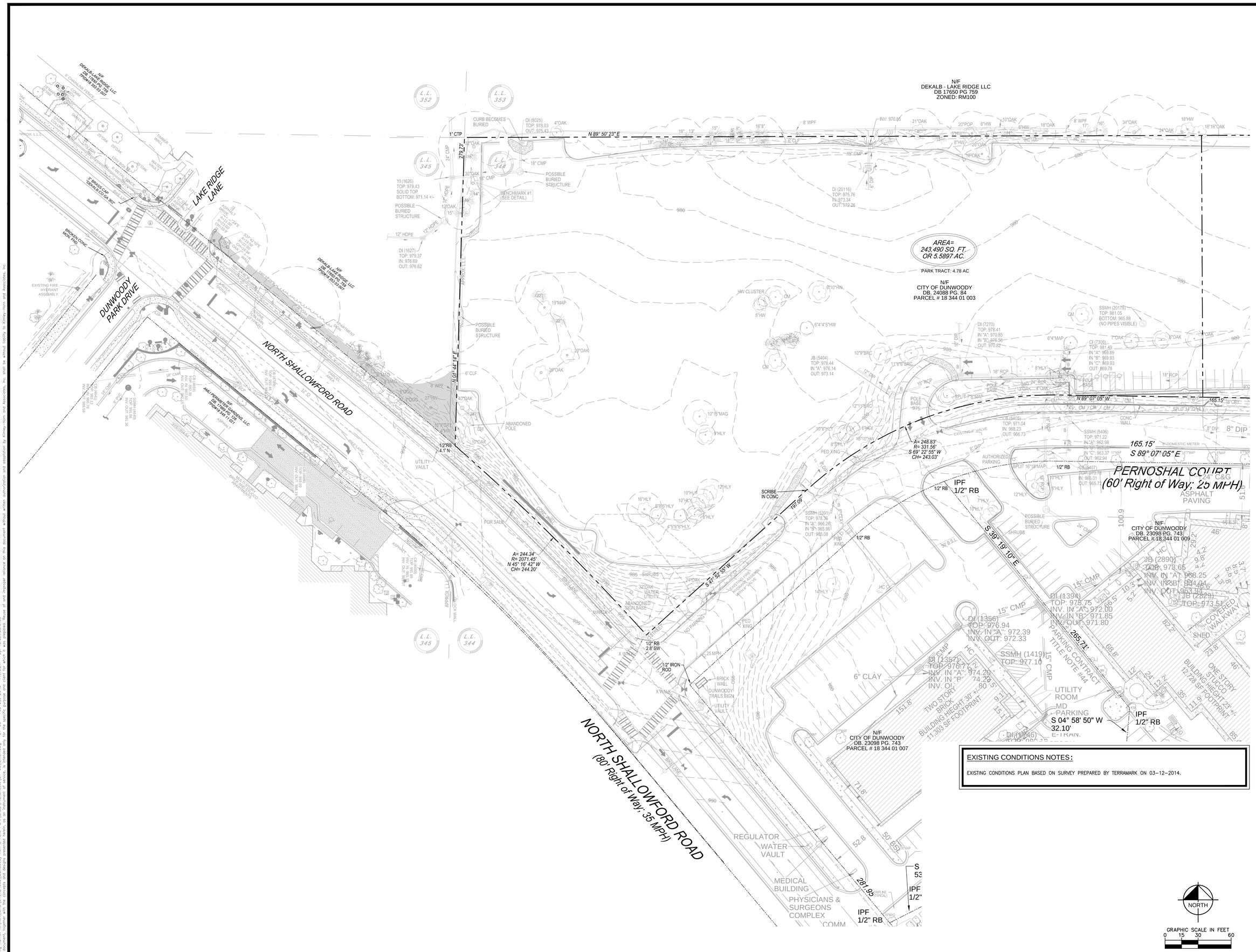


EXISTING CONDITIONS NOTES:

EXISTING CONDITIONS PLAN BASED ON SURVEY PREPARED BY TERRAMARK ON 03-12-2014.

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

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DUNWOODY PERNOSHAL PARK

EXISTING CONDITIONS

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE036080 BENJAMIN W. SKUMPIK 2-13-15

| | |
|---|---|
| SCALE (H): | 1" = 30' |
| SCALE (V): | NONE |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C1-00 |

Drawing name: K:\AMT_LRK\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C1-00_EXIST.dwg C1-00 Feb 25, 2015 11:13am by: rafael.lawrence
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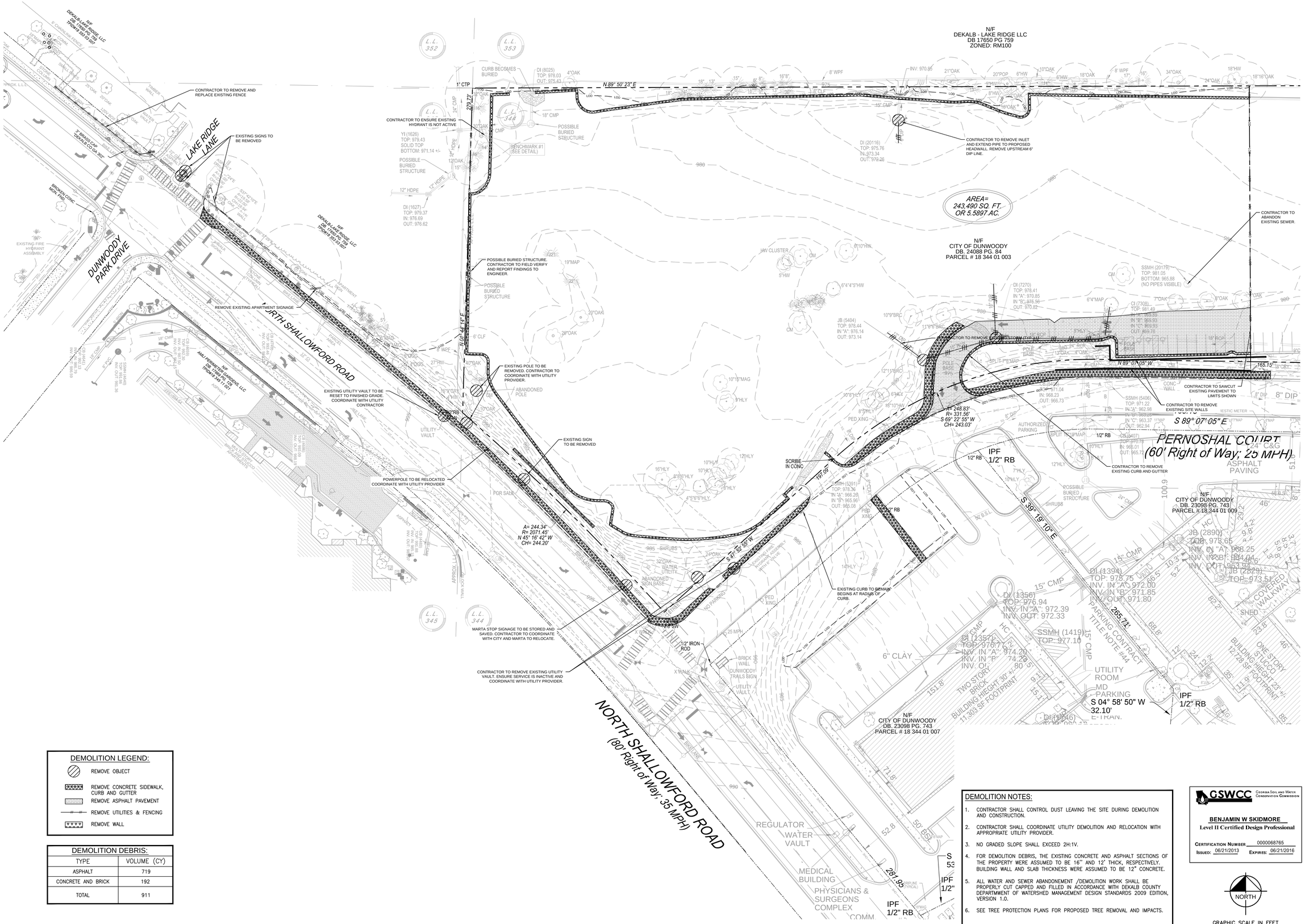


## DEMOLITION LEGEND:

- REMOVE OBJECT
- REMOVE CONCRETE SIDEWALK, CURB AND GUTTER
- REMOVE ASPHALT PAVEMENT
- REMOVE UTILITIES & FENCING
- REMOVE WALL

## DEMOLITION DEBRIS:

| TYPE | VOLUME (CY) |
|---|---|
| ASPHALT | 719 |
| CONCRETE AND BRICK | 192 |
| TOTAL | 911 |

## DEMOLITION NOTES:

1. CONTRACTOR SHALL CONTROL DUST LEAVING THE SITE DURING DEMOLITION AND CONSTRUCTION.
2. CONTRACTOR SHALL COORDINATE UTILITY DEMOLITION AND RELOCATION WITH APPROPRIATE UTILITY PROVIDER.
3. NO GRADED SLOPE SHALL EXCEED 2H:1V.
4. FOR DEMOLITION DEBRIS, THE EXISTING CONCRETE AND ASPHALT SECTIONS OF THE PROPERTY WERE ASSUMED TO BE 16" AND 12" THICK, RESPECTIVELY. BUILDING WALL AND SLAB THICKNESS WERE ASSUMED TO BE 12" CONCRETE.
5. ALL WATER AND SEWER ABANDONEMENT /DEMOLITION WORK SHALL BE PROPERLY CUT CAPPED AND FILLED IN ACCORDANCE WITH DEKALB COUNTY DEPARTMWENT OF WATERSHED MANAGEMENT DESIGN STANDARDS 2009 EDITION, VERSION 1.0.
6. SEE TREE PROTECTION PLANS FOR PROPOSED TREE REMOVAL AND IMPACTS.

GSWCC Georgia Soil and Water Conservation Commission

**BENJAMIN W SKIDMORE**
**Level II Certified Design Professional**

Certification Number 0000068765
Issued: 06/21/2013 Expires: 06/21/2016

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE032666 BENJAMIN W. SKIDMORE 2-13-15

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60


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|---|---|---|---|

DUNWOODY PERNOSHAL PARK

DEMOLITION PLAN

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

| | |
|---|---|
| SCALE (H): | 1" = 30' |
| SCALE (V): | NONE |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
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Drawing name: K:\AMT_LR\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C2-00_DEMO.dwg C2-00 Feb 25, 2015 11:13am by: rafael.lawrence
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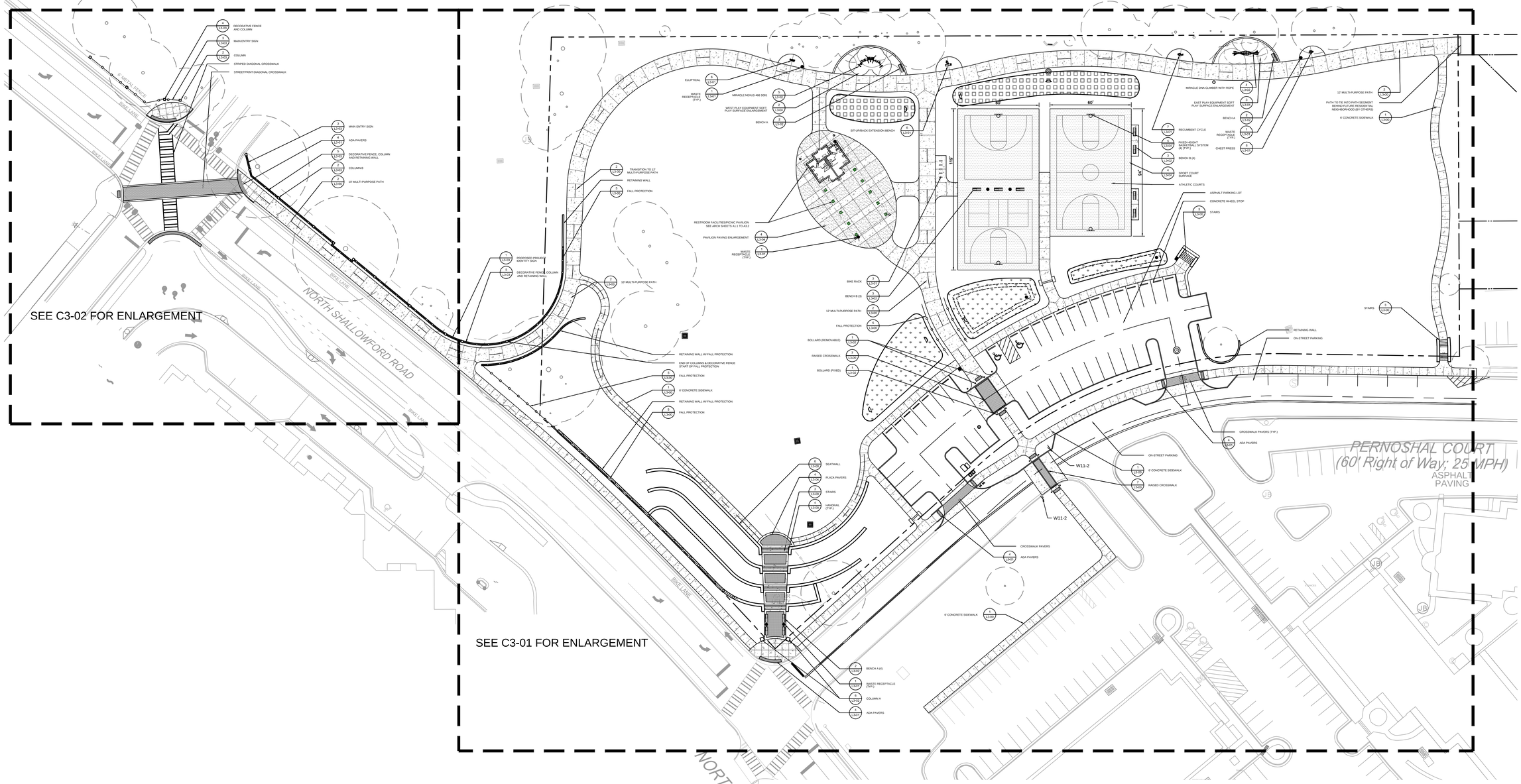


## PROPOSED SIGNAGE:

W11-2 - SEE MUTCD FOR SIGN DETAILS

- ROCK LINED WATER FEATURES
- BIO-RETENTION AREAS

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

## TRANSPORTATION NOTES:

1. NEWPAVEMENT/SURFACING IS REQUIRED ACROSS ALL PROPERTY FRONTAGES TO EXISTING CENTERLINE, TO BE INSTALLED PER DUNWOODY STANDARD DETAILS OR AS ADDITIONALLY DIRECTED BY DUNWOODY TRAFFIC ENGINEER.
2. ALL TRAFFIC CONTROL AND WARNING DEVICES MUST BE SHOWN AND PLACED PER MUTCD.
3. TEMPORARY TRAFFIC CONTROL AND WARNING DEVICES SHALL BE PLACED PRIOR TO COMMENCEMENT OF ANY ROAD IMPROVEMENT WORK ON CITY ROADS AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL SIGNING AND STRIPING WORK.
4. ALL SIGNS SHALL CONFORM TO THE MUTCD STANDARDS AND DUNWOODY FOR COLOR, SIZE, REFLECTIVITY, HIEIGHT, AND PLACEMENT.
5. WHEN NECESSARY, EXISTING STRIPING SHALL BE REMOVED BY GRINDIN, UNLESS SPECIFIED BY DUNWOODY TRAFFIC ENGINEER.
6. ALL FINAL SIGNAGE MUST BE INSTALLED CONCURRENTLY WITH THE PERFORMANCE FOR THE STRIPING WORK.
7. CONTACT THE DUNWOODY PUBLIC WORKS (678-382-6700) ONE WEEK PRIOR TO COMMENCEMENT OF ANY STRIPING WORK.


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WWW.KIMLEY-HORN.COM


| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY PERNOSHAL PARK

SITE PLAN

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

GEORGIA REGISTERED No. PE038066 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE
2-13-15

| | |
|---|---|
| SCALE (H): | 1" = 30' |
| SCALE (V): | NONE |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C3-00 |


Drawing name: K:\AMT_LIRA\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C3-00_SITE.dwg C3-00 Feb 25, 2015 11:14am by: rafael.lawrence
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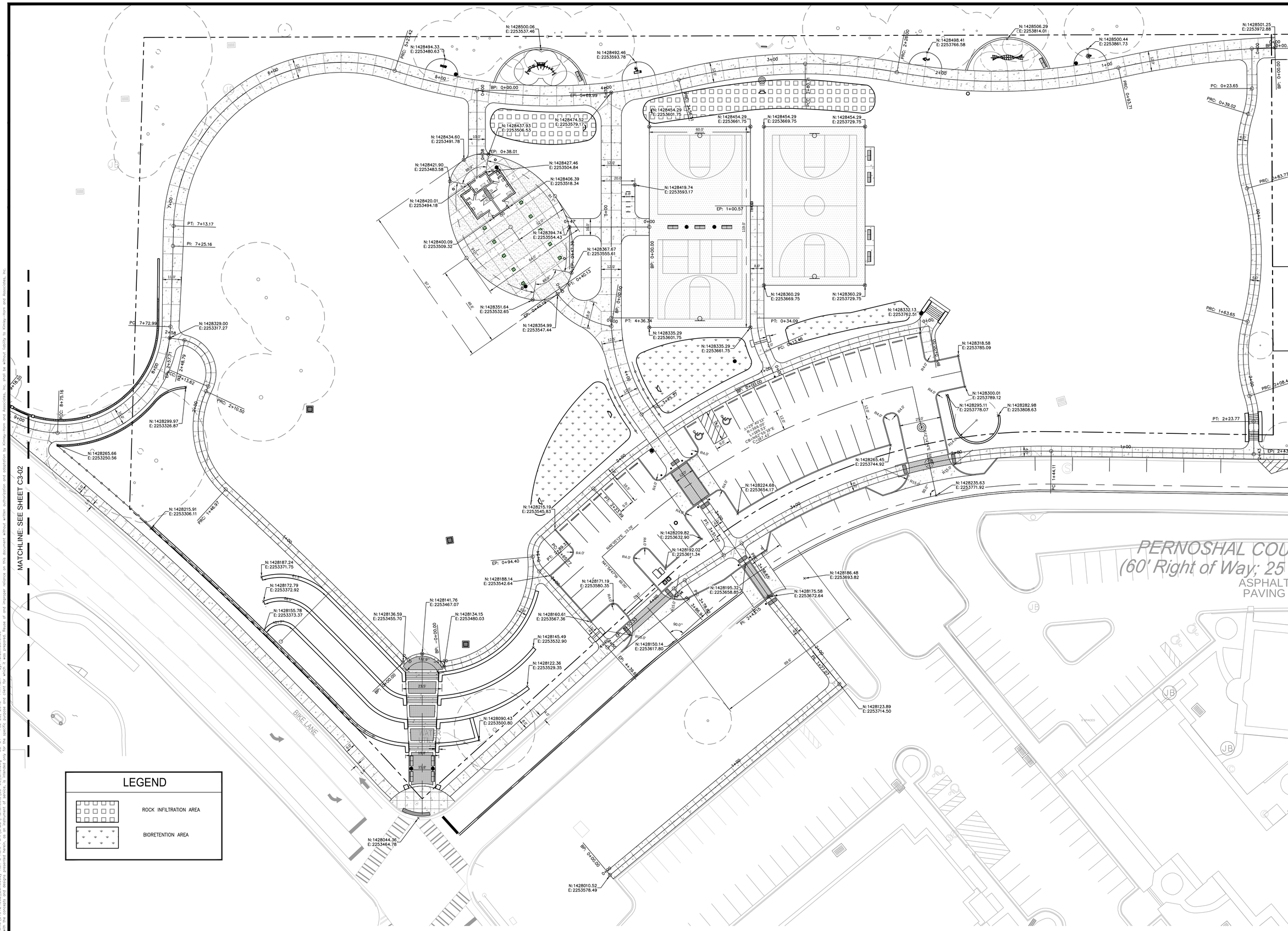
LxSurvey-019124002|X-STORM

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|---|---|---|---|

DUNWOODY PERNOSHAL PARK

SITE PLAN ENLARGEMENT

DUNWOODY PARKS AND RECREATION

41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE0028060 BENJAMIN W. SKOWRONE 2-13-15

| | |
|---|---|
| SCALE (H): | 1" = 20' |
| SCALE (V): | NONE |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C3-01 |

Drawing name: K:\AMT_LRD\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C3-00_SITE.dwg C3-01 Feb 25, 2015 11:14am by: rafael.lawrence
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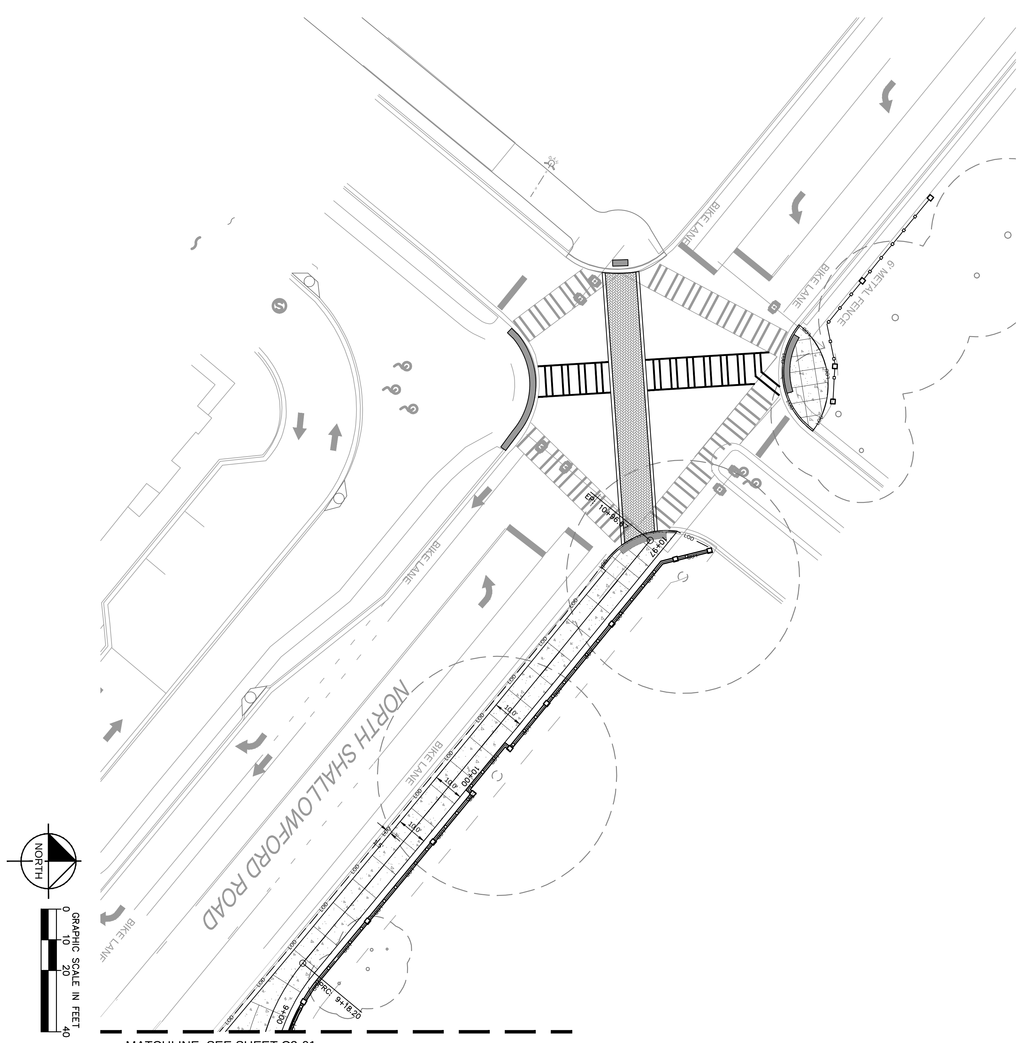


MATCHLINE: SEE SHEET C3-01

DUNWOODY PARKS AND RECREATION

41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

DUNWOODY PERNOSHAL PARK

SITE PLAN ENLARGEMENT

| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

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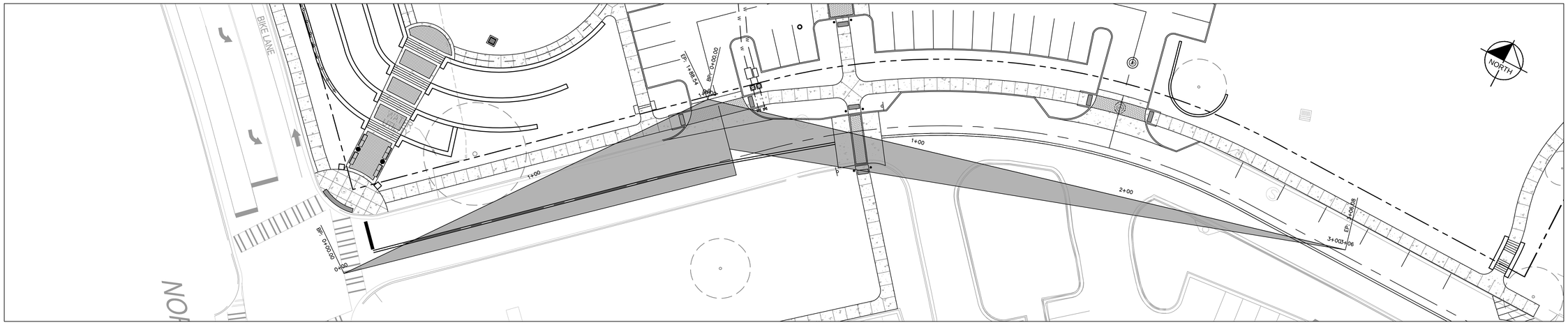
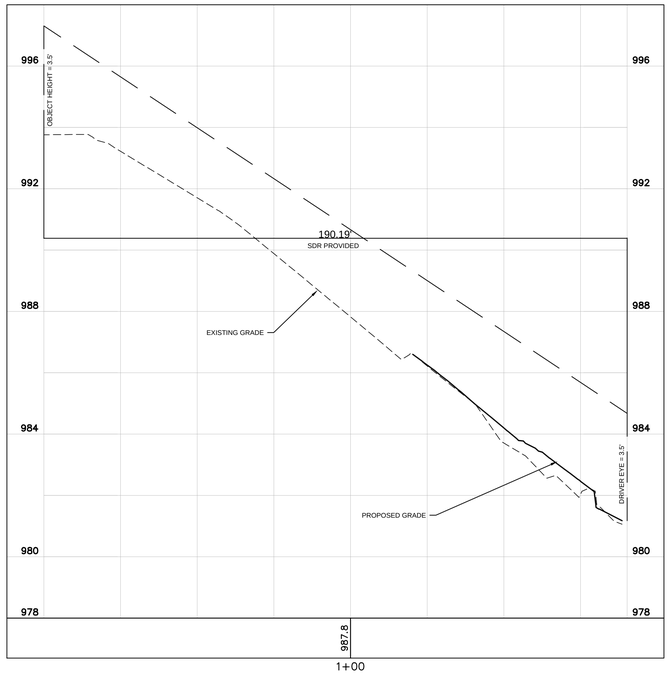
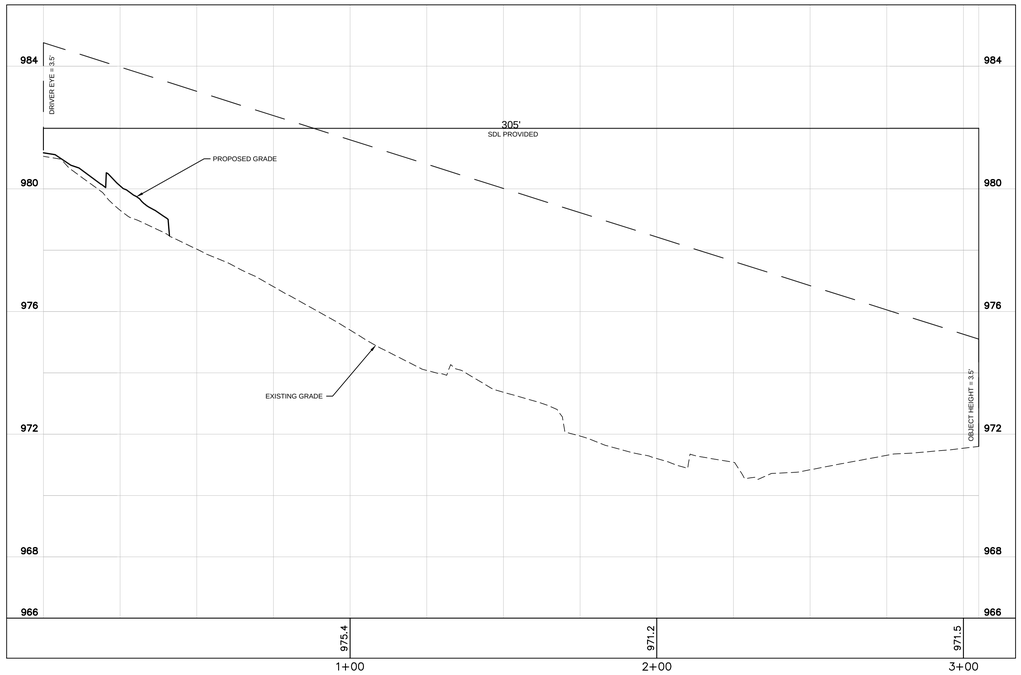
SCALE (H): 1" = 20'
SCALE (V): NONE
DESIGNED BY: RS/RL
DRAWN BY: AL/ZR
CHECKED BY: RS/BS
DATE: 09/19/2014
KHA PROJECT NO.: 019124002

SHEET NUMBER
C3-02




# SIGHT DISTANCE PROFILES FOR ENTRANCE 1 ON PERNOSHAL COURT

SIGHT DISTANCE EQUATION

ISD = 1.47*$V_S$*t

$V_S$ = 25 MPH (POSTED SPEED LIMIT)
t = 7.5 sec (TIME GAP FOR PASSENGER CAR FROM AASHTO GREEN BOOK)

ISD = (1.47)*(25)*(7.5)
ISD = 303.2' ~ 305'

LEFT TURN AND RIGHT TURN ASSUMED THE SAME FOR 2 LANE ROAD

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL

0 1 2 4
VERTICAL

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DUNWOODY PERNOSHAL PARK

SITE PROFILES - ENTRANCE 1

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

GEORGIA REGISTERED No. PE038066 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE
2-13-15

| | |
|---|---|
| SCALE (H): | 1" = 20' |
| SCALE (V): | 1"=2' |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |

SHEET NUMBER
C3-10

Drawing name: K:\AMT_LRC\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C3-00_SITE.dwg C3-10 Feb 25, 2015 11:14am by: rafael.lawrence
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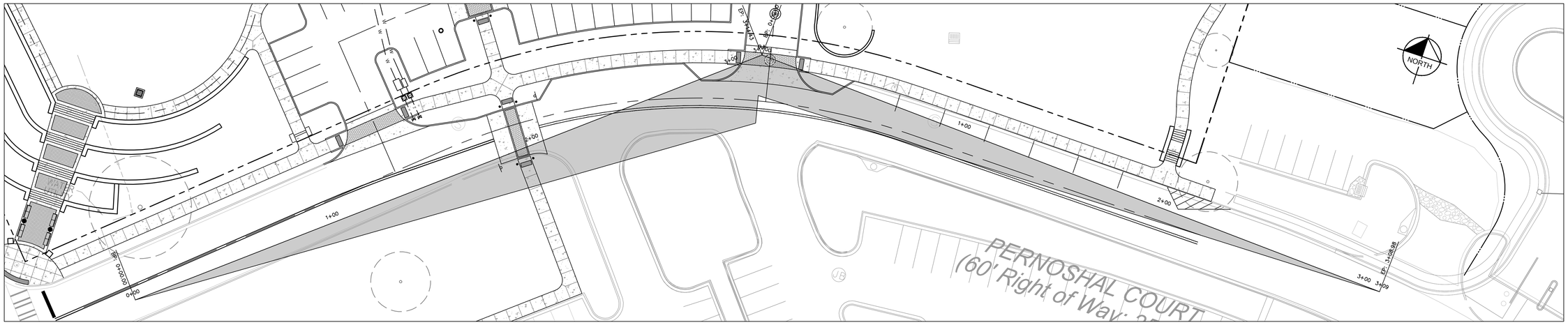


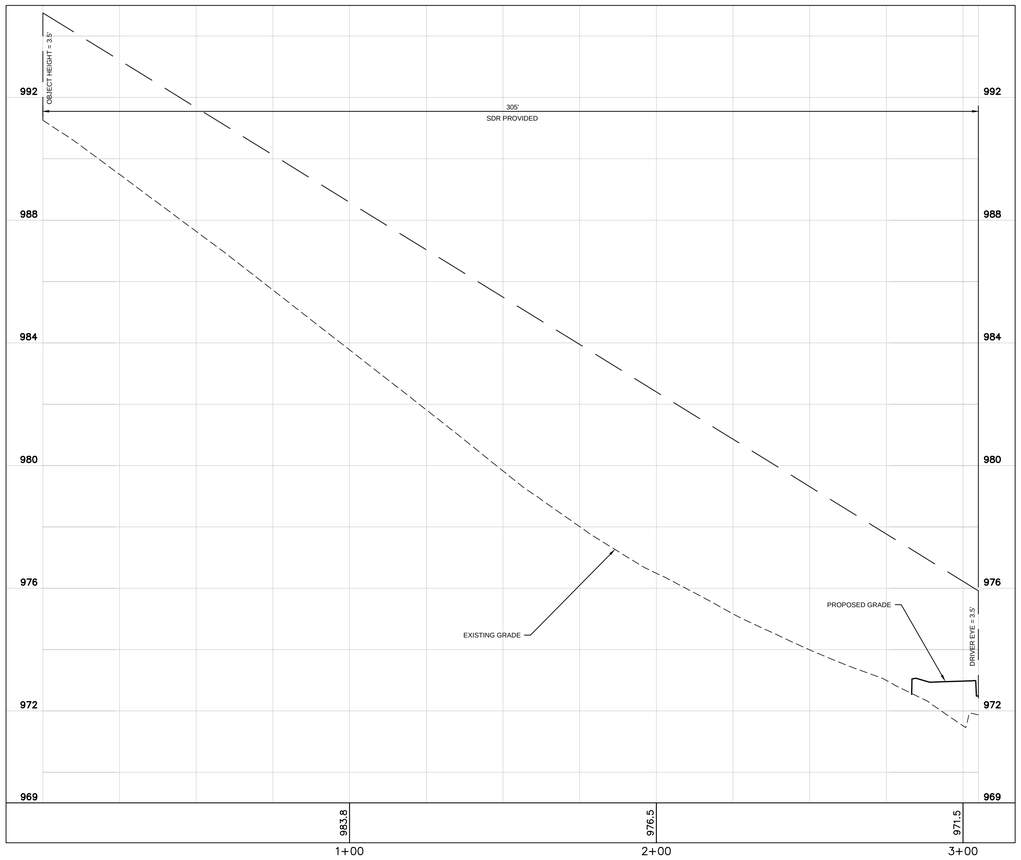


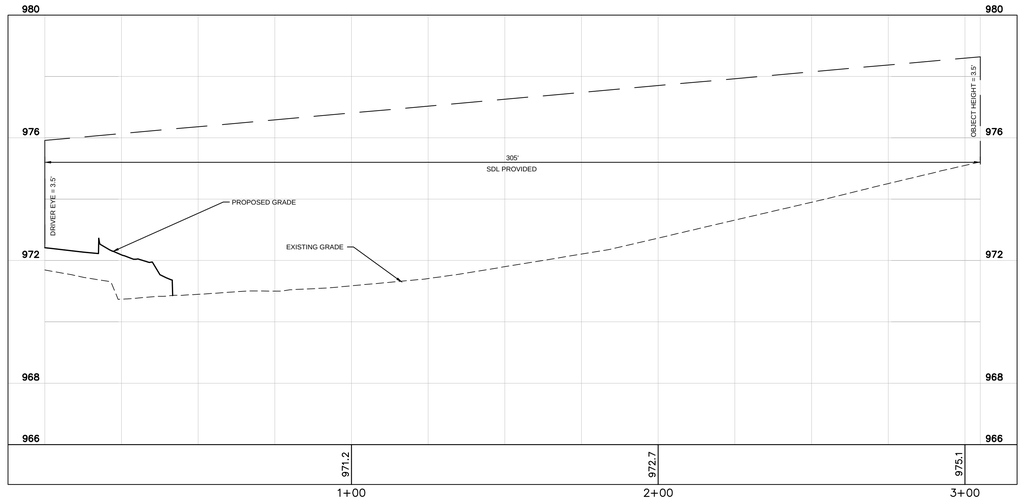


# SIGHT DISTANCE PROFILES FOR ENTRANCE 1 ON PERNOSHAL COURT

**SIGHT DISTANCE EQUATION**

ISD = $1.47 * V_S * t$

$V_S$ = 25 MPH (POSTED SPEED LIMIT)
t = 7.5 sec (TIME GAP FOR PASSENGER CAR FROM AASHTO GREEN BOOK)

ISD = (1.47)*(25)*(7.5)
ISD = 303.2' ~ 305'

LEFT TURN AND RIGHT TURN ASSUMED THE SAME FOR 2 LANE ROAD

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL

0 1 2 4
VERTICAL

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DUNWOODY PERNOSHAL PARK

SITE PROFILES - ENTRANCE 2

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

GEORGIA REGISTERED No. PE038306 PROFESSIONAL ENGINEER BENJAMIN W. SKUMBRIS
2-13-15

| | |
|---|---|
| SCALE (H): | 1" = 20' |
| SCALE (V): | 1"=2' |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C3-11 |

Drawing name: K:\AMT_LRR\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C3-00_SITE.dwg C3-11 Feb 25, 2015 11:15am by: rafael.lawrence
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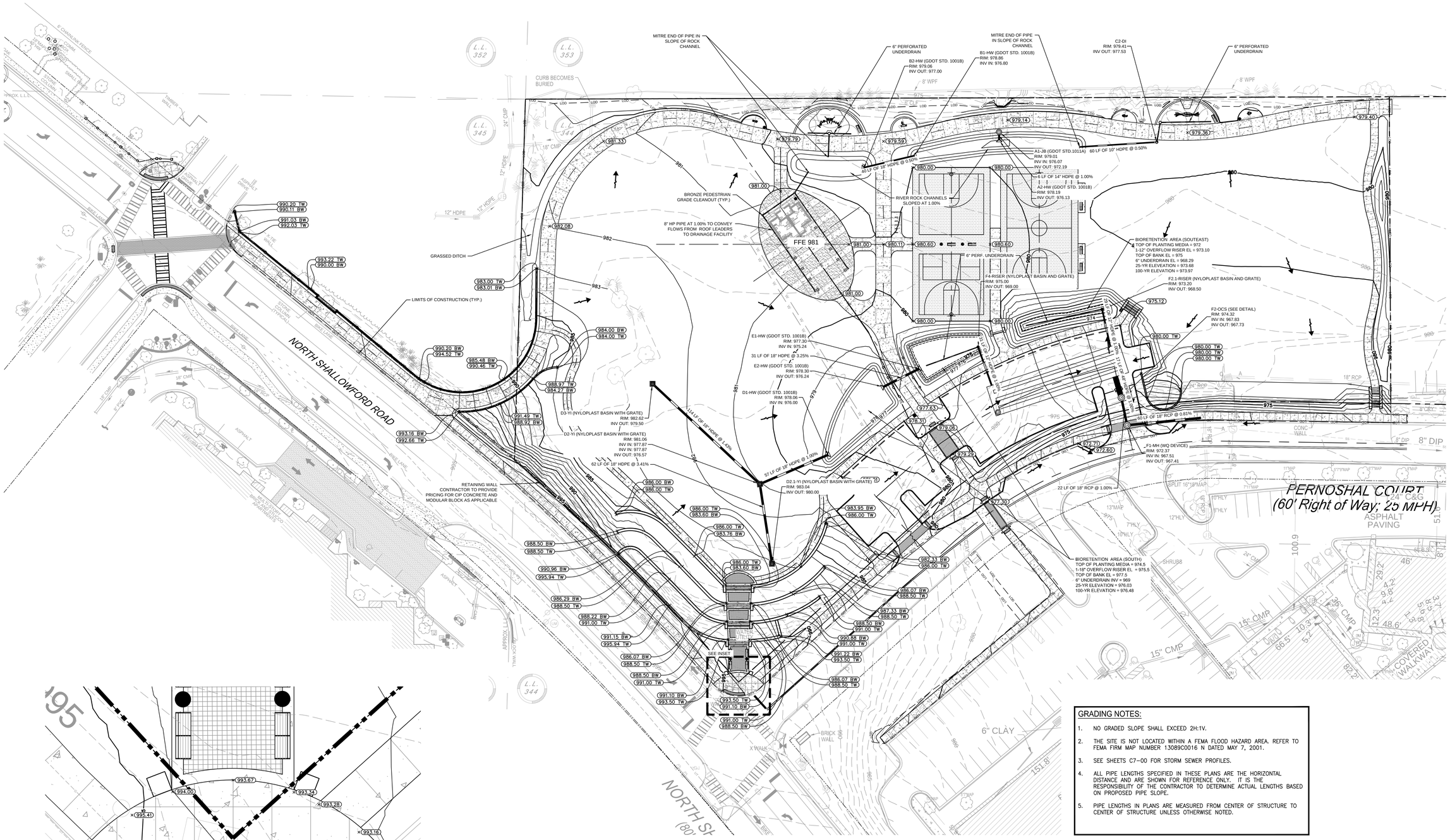
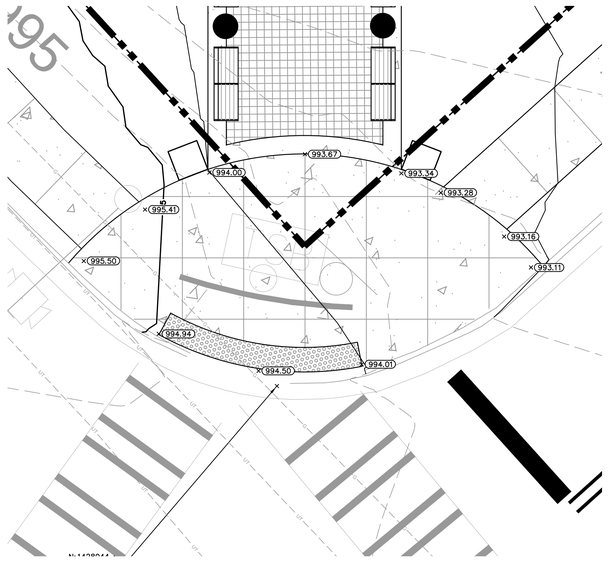
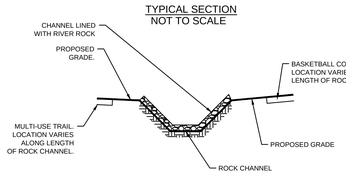
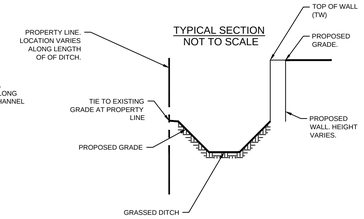



INSET

SCALE: 1" = 5'




## GRADING NOTES:

1. NO GRADED SLOPE SHALL EXCEED 2H:1V.
2. THE SITE IS NOT LOCATED WITHIN A FEMA FLOOD HAZARD AREA. REFER TO FEMA FIRM MAP NUMBER 13089C0016 N DATED MAY 7, 2001.
3. SEE SHEETS C7-00 FOR STORM SEWER PROFILES.
4. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE.
5. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.

## HYDROLOGY NOTES:

### GRASS DITCH

Q25 = 0.52 CFS
SIDE SLOPES = 3:1
RUNNING SLOPE = 1.9% - 5.5%
NORMAL DEPTH = 0.15 - 0.10 FT
V25 = 1.74 - 2.44 FPS

### RIVER ROCK CHANNELS

Q25 = 10.44 CFS
SIDE SLOPES = 2:1
RUNNING SLOPE = 1.0%
NORMAL DEPTH = 1.19 FT
V25 = 3.65 FPS

## ADA NOTES:

### SIDEWALK

1. CLEAR TREAD WIDTH: 36" MINIMUM
2. TREAD OBSTACLES: 2" MAXIMUM (UP TO 3" HIGH WHERE RUNNING AND CROSS SLOPES ARE 5% OR LESS)
3. RUNNING SLOPE MEETS ONE OR MORE OF THE FOLLOWING
   - 5% OR LESS FOR ANY DISTANCE
   - UP TO 8.33% AS A RAMP FOR 30 FT
4. CROSS SLOPE IS 2% MAXIMUM

### MULTI-USE TRAIL

1. CLEAR TREAD WIDTH: 36" MINIMUM
2. TREAD OBSTACLES: 2" MAXIMUM (UP TO 3" HIGH WHERE RUNNING AND CROSS SLOPES ARE 5% OR LESS)
3. RUNNING SLOPE MEETS ONE OR MORE OF THE FOLLOWING
   - 5% OR LESS FOR ANY DISTANCE
   - UP TO 8.33% AS A RAMP FOR 200 FT MAX. (RESTING INTERVALS NO MORE THAN 200 FT APART.
   - UP TO 10% FOR 30 FT MAX. RESTING INTERVALS EVERY 30 FT.
   - UP TO 12.5% FOR 10 FT MAX. RESTING INTERVALS EVERY 10 FT.
   - NO MORE THAN 30% OF THE TOTAL TRAIL LENGTH MAY EXCEED A RUNNING SLOPE OF 8.33%
4. CROSS SLOPE IS 2% MAXIMUM

GSWCC Georgia Soil and Water Conservation Commission

**BENJAMIN W SKIDMORE**
**Level II Certified Design Professional**

Certification Number 0000068765
Issued: 06/21/2013 Expires: 06/21/2016

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE036000 BENJAMIN W. SKIDMORE 2-13-15

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

| | |
|---|---|
| SCALE (H): | 1" = 30' |
| SCALE (V): | NONE |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C4-00 |

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DUNWOODY PERNOSHAL PARK

GRADING PLAN

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

Drawing name: K:\MPI_LRR\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C5-00_GRADING.dwg C4-00 GRADING PLAN Feb 25, 2015 11:15am by: rafael.lawrence
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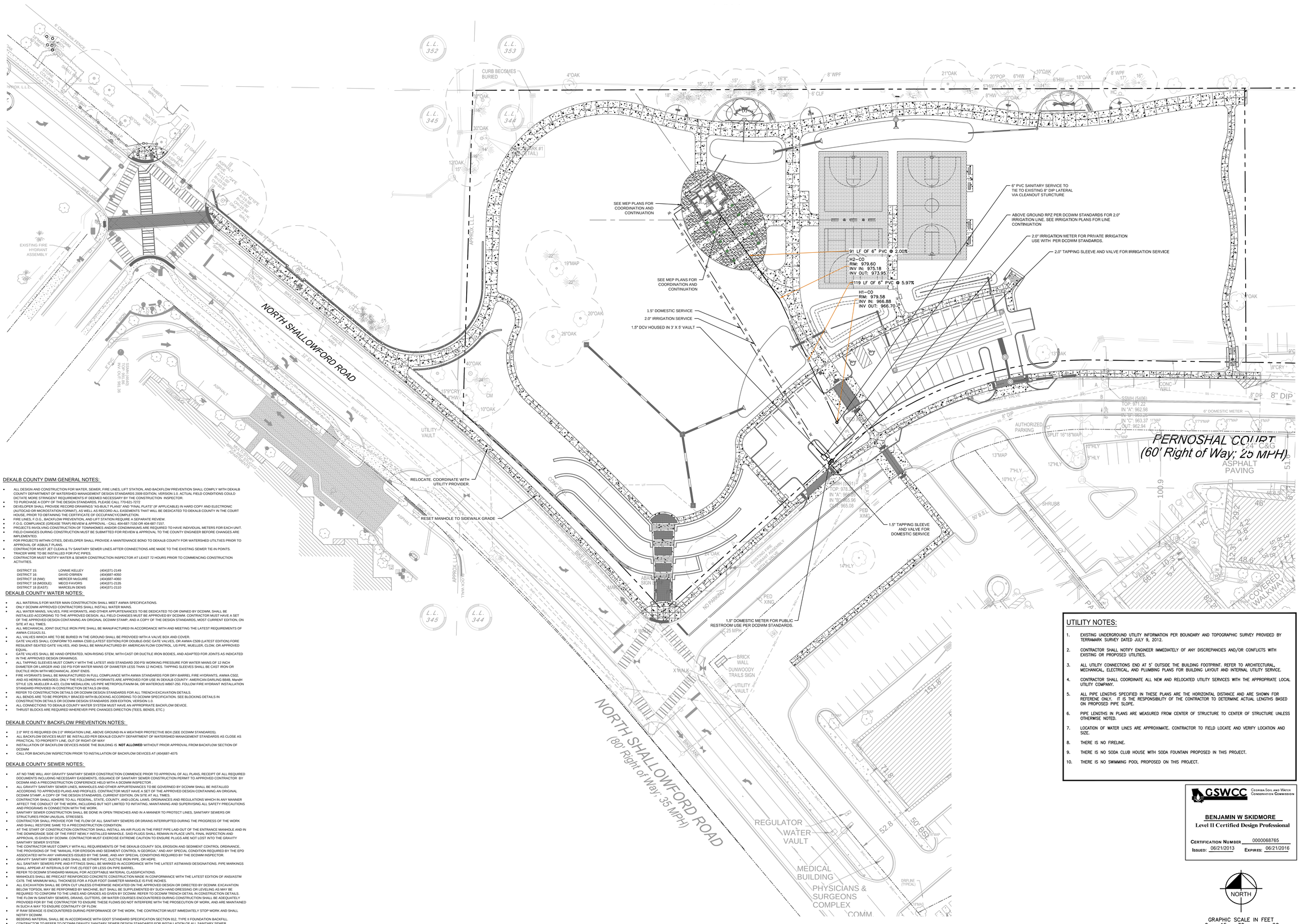


## DEKALB COUNTY DWM GENERAL NOTES:

- ALL DESIGN AND CONSTRUCTION FOR WATER, SEWER, FIRE LINES, LIFT STATION, AND BACKFLOW PREVENTION SHALL COMPLY WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARDS 2009 EDITION, VERSION 1.0. ACTUAL FIELD CONDITIONS COULD DICTATE MORE STRINGENT REQUIREMENTS IF DEEMED NECESSARY BY THE CONSTRUCTION INSPECTOR.
- TO PURCHASE A COPY OF THE DESIGN STANDARDS, PLEASE CALL 770-621-7272
- DEVELOPER SHALL PROVIDE RECORD DRAWINGS "AS-BUILT PLANS" AND "FINAL PLATS" (IF APPLICABLE) IN HARD COPY AND ELECTRONIC (AUTOCAD OR MICROSTATION FORMAT), AS WELL AS RECORD ALL EASEMENTS THAT WILL BE DEDICATED TO DEKALB COUNTY IN THE COURT HOUSE, PRIOR TO OBTAINING THE CERTIFICATE OF OCCUPANCY/COMPLETION.
- FIRE LINES, F.O.G., BACKFLOW PREVENTION, AND LIFT STATION REQUIRE A SEPARATE REVIEW.
- F.O.G. COMPLIANCE (GREASE TRAP) REVIEW & APPROVAL - CALL 404-687-7150 OR 404-687-7157.
- PROJECTS INVOLVING CONSTRUCTION OF TOWNHOMES AND/OR CONDOMINIUMS ARE REQUIRED TO HAVE INDIVIDUAL METERS FOR EACH UNIT.
- FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW & APPROVAL TO THE COUNTY ENGINEER BEFORE CHANGES ARE IMPLEMENTED.
- FOR PROJECTS WITHIN CITIES, DEVELOPER SHALL PROVIDE A MAINTENANCE BOND TO DEKALB COUNTY FOR WATERSHED UTILITIES PRIOR TO APPROVAL OF ASBUILT PLANS.
- CONTRACTOR MUST JET CLEAN & TV SANITARY SEWER LINES AFTER CONNECTIONS ARE MADE TO THE EXISTING SEWER TIE-IN POINTS. TRACER WIRE TO BE INSTALLED FOR PVC PIPES.
- CONTRACTOR MUST NOTIFY WATER & SEWER CONSTRUCTION INSPECTOR AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

| | | |
|---|---|---|
| DISTRICT 15: | LONNIE KELLEY | (404)371-2149 |
| DISTRICT 16: | DAVID O'BRIEN | (404)687-4050 |
| DISTRICT 18 (NW): | MERCER McGUIRE | (404)687-4060 |
| DISTRICT 18 (MIDDLE): | MECO FAVORS | (404)371-2135 |
| DISTRICT 18 (EAST): | MARCELIN DENIS | (404)371-2110 |

## DEKALB COUNTY WATER NOTES:

- ALL MATERIALS FOR WATER MAIN CONSTRUCTION SHALL MEET AWWA SPECIFICATIONS.
- ONLY DCDWM APPROVED CONTRACTORS SHALL INSTALL WATER MAINS.
- ALL WATER MAINS, VALVES, FIRE HYDRANTS, AND OTHER APPURTENANCES TO BE DEDICATED TO OR OWNED BY DCDWM, SHALL BE INSTALLED ACCORDING TO THE APPROVED DESIGN. ALL FIELD CHANGES MUST BE APPROVED BY DCDWM. CONTRACTOR MUST HAVE A SET OF THE APPROVED DESIGN CONTAINING AN ORIGINAL DCDWM STAMP, AND A COPY OF THE DESIGN STANDARDS, MOST CURRENT EDITION, ON SITE AT ALL TIMES.
- ALL MECHANICAL JOINT DUCTILE IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AND MEETING THE LATEST REQUIREMENTS OF AWWA C153/A21.53.
- ALL VALVES WHICH ARE TO BE BURIED IN THE GROUND SHALL BE PROVIDED WITH A VALVE BOX AND COVER.
- GATE VALVES SHALL CONFORM TO AWWA C500 (LATEST EDITION) FOR DOUBLE-DISC GATE VALVES, OR AWWA C509 (LATEST EDITION) FORE RESILIENT SEATED GATE VALVES, AND SHALL BE MANUFACTURED BY AMERICAN FLOW CONTROL, US PIPE, MUELLER, CLOW, OR APPROVED EQUAL.
- GATE VALVES SHALL BE HAND OPERATED, NON-RISING STEM, WITH CAST OR DUCTILE IRON BODIES, AND ADAPTED FOR JOINTS AS INDICATED IN THE APPROVED DESIGN DRAWINGS.
- ALL TAPPING SLEEVES MUST COMPLY WITH THE LATEST ANSI STANDARD 200 PSI WORKING PRESSURE FOR WATER MAINS OF 12 INCH DIAMETER OR LARGER AND 150 PSI FOR WATER MAINS OF DIAMETER LESS THAN 12 INCHES. TAPPING SLEEVES SHALL BE CAST IRON OR DUCTILE IRON WITH MECHANICAL JOINT ENDS.
- FIRE HYDRANTS SHALL BE MANUFACTURED IN FULL COMPLIANCE WITH AWWA STANDARDS FOR DRY-BARREL FIRE HYDRANTS, AWWA C502, AND AS HEREIN AMENDED. ONLY THE FOLLOWING HYDRANTS ARE APPROVED FOR USE IN DEKALB COUNTY: AMERICAN DARLING B84B, Mueller STYLE 129, MUELLER A-423, CLOW MEDALLION, US PIPE METROPOLITAN/M-94, OR WATEROUS WB67-250. FOLLOW FIRE HYDRANT INSTALLATION STANDARD PROVIDED IN CONSTRUCTION DETAILS (W-004).
- REFER TO CONSTRUCTION DETAILS OR DCDWM DESIGN STANDARDS FOR ALL TRENCH EXCAVATION DETAILS.
- ALL BENDS ARE TO BE PROPERLY BRACED WITH BLOCKING ACCORDING TO DCDWM SPECIFICATION. SEE BLOCKING DETAILS IN CONSTRUCTION DETAILS OR DCDWM DESIGN STANDARDS 2009 EDITION, VERSION 1.0.
- ALL CONNECTIONS TO DEKALB COUNTY WATER SYSTEM MUST HAVE AN APPROPRIATE BACKFLOW DEVICE.
- THRUST BLOCKS ARE REQUIRED WHEREVER PIPE CHANGES DIRECTION (TEES, BENDS, ETC.)

## DEKALB COUNTY BACKFLOW PREVENTION NOTES:

- 2.0" RPZ IS REQUIRED ON 2.0" IRRIGATION LINE, ABOVE GROUND IN A WEATHER PROTECTIVE BOX (SEE DCDWM STANDARDS).
- ALL BACKFLOW DEVICES MUST BE INSTALLED PER DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT STANDARDS AS CLOSE AS PRACTICAL TO PROPERTY LINE, OUT OF RIGHT-OF-WAY
- INSTALLATION OF BACKFLOW DEVICES INSIDE THE BUILDING IS **NOT ALLOWED** WITHOUT PRIOR APPROVAL FROM BACKFLOW SECTION OF DCDWM
- CALL FOR BACKFLOW INSPECTION PRIOR TO INSTALLATION OF BACKFLOW DEVICES AT (404)687-4075

## DEKALB COUNTY SEWER NOTES:

- AT NO TIME WILL ANY GRAVITY SANITARY SEWER CONSTRUCTION COMMENCE PRIOR TO APPROVAL OF ALL PLANS, RECEIPT OF ALL REQUIRED DOCUMENTS INCLUDING NECESSARY EASEMENTS, ISSUANCE OF SANITARY SEWER CONSTRUCTION PERMIT TO APPROVED CONTRACTOR BY DCDWM AND A PRECONSTRUCTION CONFERENCE HELD WITH A DCDWM INSPECTOR.
- ALL GRAVITY SANITARY SEWER LINES, MANHOLES AND OTHER APPURTENANCES TO BE GOVERNED BY DCDWM SHALL BE INSTALLED ACCORDING TO APPROVED PLANS AND PROFILES. CONTRACTOR MUST HAVE A SET OF THE APPROVED DESIGN CONTAINING AN ORIGINAL DCDWM STAMP, A COPY OF THE DESIGN STANDARDS, CURRENT EDITION, ON SITE AT ALL TIMES.
- CONTRACTOR SHALL ADHERE TO ALL FEDERAL, STATE, COUNTY, AND LOCAL LAWS, ORDINANCES AND REGULATIONS WHICH IN ANY MANNER AFFECT THE CONDUCT OF THE WORK, INCLUDING BUT NOT LIMITED TO INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
- SANITARY SEWER CONSTRUCTION SHALL BE DONE IN OPEN TRENCHES AND IN A MANNER TO PROTECT LINES, SANITARY SEWERS OR STRUCTURES FROM UNUSUAL STRESSES.
- CONTRACTOR SHALL PROVIDE FOR THE FLOW OF ALL SANITARY SEWERS OR DRAINS INTERRUPTED DURING THE PROGRESS OF THE WORK AND SHALL RESTORE SAME TO A PRECONSTRUCTION CONDITION.
- AT THE START OF CONSTRUCTION CONTRACTOR SHALL INSTALL AN AIR PLUG IN THE FIRST PIPE LAID OUT OF THE ENTRANCE MANHOLE AND IN THE DOWNGRADE SIDE OF THE FIRST NEWLY INSTALLED MANHOLE. SAID PLUGS SHALL REMAIN IN PLACE UNTIL FINAL INSPECTION AND APPROVAL IS GIVEN BY DCDWM. CONTRACTOR MUST EXERCISE EXTREME CAUTION TO ENSURE PLUGS ARE NOT LOST INTO THE GRAVITY SANITARY SEWER SYSTEM.
- THE CONTRACTOR MUST COMPLY WITH ALL REQUIREMENTS OF THE DEKALB COUNTY SOIL EROSION AND SEDIMENT CONTROL ORDINANCE. THE PROVISIONS OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA," AND ANY SPECIAL CONDITION REQUIRED BY THE EPD ASSOCIATED WITH ANY VARIANCES ISSUED BY THE SAME, AND ANY SPECIAL CONDITIONS REQUIRED BY THE DCDWM INSPECTOR.
- GRAVITY SANITARY SEWER LINES SHALL BE EITHER PVC, DUCTILE IRON PIPE, OR HDPE.
- ALL SANITARY SEWERS PIPE AND FITTINGS SHALL BE MARKED IN ACCORDANCE WITH THE LATEST ASTM/ANSI DESIGNATIONS. PIPE MARKINGS SHALL APPEAR AT INTERVALS OF FIVE (5) FEET OR LESS ON PIPE BARREL.
- REFER TO DCDWM STANDARD MANUAL FOR ACCEPTABLE MATERIAL CLASSIFICATIONS.
- MANHOLES SHALL BE PRECAST REINFORCED CONCRETE CONSTRUCTION MADE IN CONFORMANCE WITH THE LATEST EDITION OF ANSI/ASTM C478. THE MINIMUM WALL THICKNESS FOR A FOUR FOOT DIAMETER MANHOLE IS FIVE INCHES.
- ALL EXCAVATION SHALL BE OPEN CUT UNLESS OTHERWISE INDICATED ON THE APPROVED DESIGN OR DIRECTED BY DCDWM. EXCAVATION BELOW TOPSOIL MAY BE PERFORMED BY MACHINE, BUT SHALL BE SUPPLEMENTED BY SUCH HAND DRESSING OR LEVELING AS MAY BE REQUIRED TO CONFORM TO THE LINES AND GRADES AS GIVEN BY DCDWM. REFER TO DCDWM TRENCH DETAIL IN CONSTRUCTION DETAILS.
- THE FLOW IN SANITARY SEWERS, DRAINS, GUTTERS, OR WATER COURSES ENCOUNTERED DURING CONSTRUCTION SHALL BE ADEQUATELY PROVIDED FOR BY THE CONTRACTOR TO ENSURE THESE FLOWS DO NOT INTERFERE WITH THE PROSECUTION OF WORK, AND ARE MAINTAINED IN SUCH A WAY TO ENSURE CONTINUITY OF FLOW.
- IF RAW SEWAGE IS ENCOUNTERED DURING PERFORMANCE OF THE WORK, THE CONTRACTOR MUST IMMEDIATELY STOP WORK AND SHALL NOTIFY DCDWM.
- BEDDING MATERIAL SHALL BE IN ACCORDANCE WITH GDOT STANDARD SPECIFICATION SECTION 812, TYPE II FOUNDATION BACKFILL.
- CONTRACTOR TO REFER TO DCDWM GRAVITY SANITARY SEWER DESIGN STANDARDS FOR INSTALLATION OF ALL SANITARY SEWER.
- GRAVITY SEWER LINE MATERIAL CHALL BE PVC (SDR35) OR DIP (CLASS 350).

## UTILITY NOTES:

1. EXISTING UNDERGROUND UTILITY INFORMATION PER BOUNDARY AND TOPOGRAPHIC SURVEY PROVIDED BY TERRAMARK SURVEY DATED JULY 9, 2012.
2. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES.
3. ALL UTILITY CONNECTIONS END AT 5' OUTSIDE THE BUILDING FOOTPRINT. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR BUILDING LAYOUT AND INTERNAL UTILITY SERVICE.
4. CONTRACTOR SHALL COORDINATE ALL NEW AND RELOCATED UTILITY SERVICES WITH THE APPROPRIATE LOCAL UTILITY COMPANY.
5. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE.
6. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
7. LOCATION OF WATER LINES ARE APPROXIMATE. CONTRACTOR TO FIELD LOCATE AND VERIFY LOCATION AND SIZE.
8. THERE IS NO FIRELINE.
9. THERE IS NO SODA CLUB HOUSE WITH SODA FOUNTAIN PROPOSED IN THIS PROJECT.
10. THERE IS NO SWIMMING POOL PROPOSED ON THIS PROJECT.

GSWCC Georgia Soil and Water Conservation Commission

**BENJAMIN W SKIDMORE**
**Level II Certified Design Professional**

CERTIFICATION NUMBER 0000068765
ISSUED: 06/21/2013 EXPIRES: 06/21/2016

GEORGIA REGISTERED No. PE036066 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE 2-13-15

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

| | |
|---|---|
| SCALE (H): | 1" = 30' |
| SCALE (V): | NONE |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C5-00 |

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| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY PERNOSHAL PARK

UTILITY PLAN

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

Drawing name: K:\AMT_LRC\019124002_Dunwoody Ren & Acre Park\CADD\PlanSheets\C7-00_UTILITY.dwg C5-00 UTILITY PLAN Feb 25, 2015 11:16am by: rafael.lawrence
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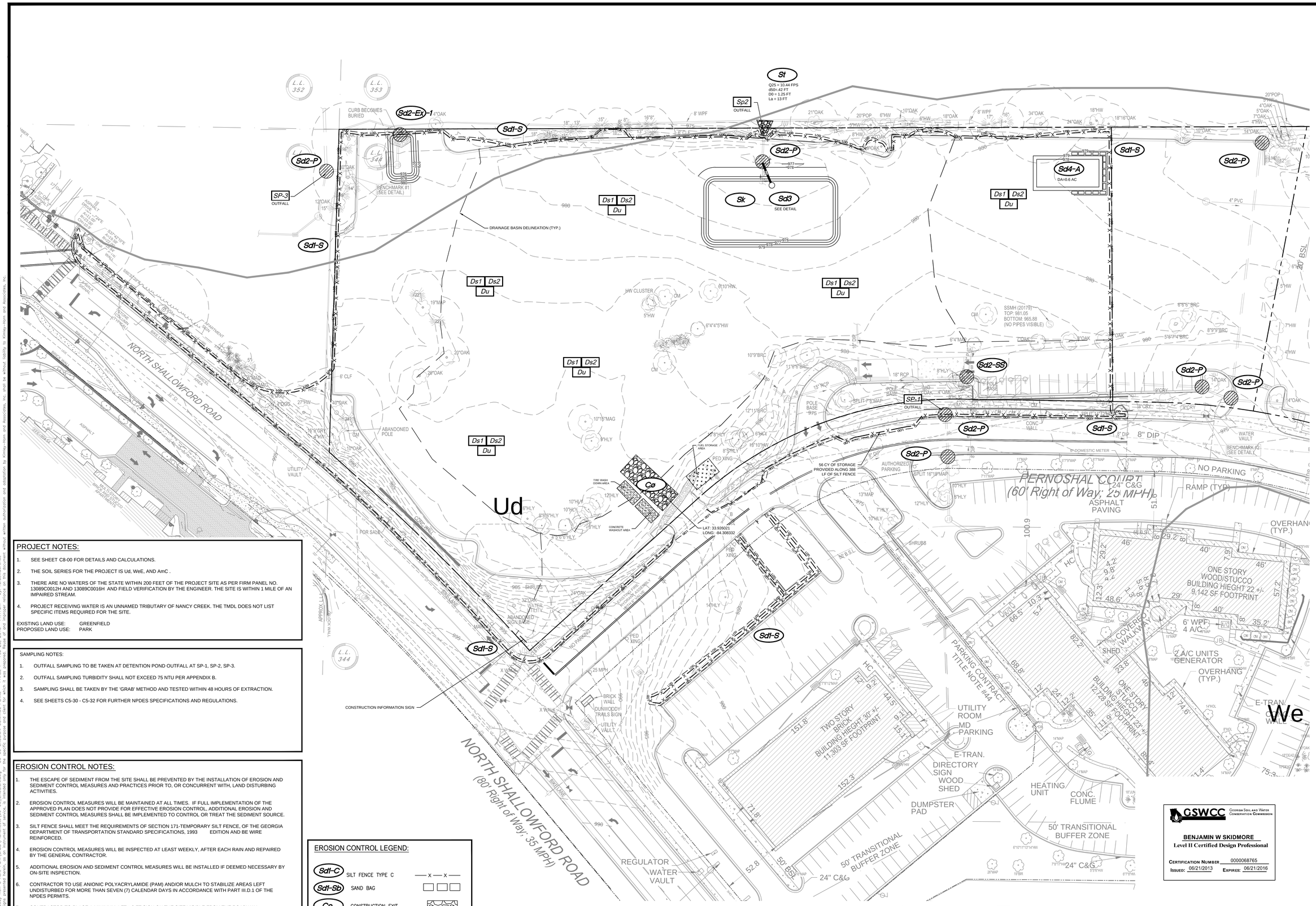


## PROJECT NOTES:

1. SEE SHEET C8-00 FOR DETAILS AND CALCULATIONS.
2. THE SOIL SERIES FOR THE PROJECT IS Ud, WeE, AND AmC .
3. THERE ARE NO WATERS OF THE STATE WITHIN 200 FEET OF THE PROJECT SITE AS PER FIRM PANEL NO. 13089C0012H AND 13089C0016H AND FIELD VERIFICATION BY THE ENGINEER. THE SITE IS WITHIN 1 MILE OF AN IMPAIRED STREAM.
4. PROJECT RECEIVING WATER IS AN UNNAMED TRIBUTARY OF NANCY CREEK. THE TMDL DOES NOT LIST SPECIFIC ITEMS REQUIRED FOR THE SITE.

EXISTING LAND USE: GREENFIELD
PROPOSED LAND USE: PARK

## SAMPLING NOTES:

1. OUTFALL SAMPLING TO BE TAKEN AT DETENTION POND OUTFALL AT SP-1, SP-2, SP-3.
2. OUTFALL SAMPLING TURBIDITY SHALL NOT EXCEED 75 NTU PER APPENDIX B.
3. SAMPLING SHALL BE TAKEN BY THE 'GRAB' METHOD AND TESTED WITHIN 48 HOURS OF EXTRACTION.
4. SEE SHEETS C5-30 - C5-32 FOR FURTHER NPDES SPECIFICATIONS AND REGULATIONS.

## EROSION CONTROL NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION AND BE WIRE REINFORCED.
4. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN AND REPAIRED BY THE GENERAL CONTRACTOR.
5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
6. CONTRACTOR TO USE ANIONIC POLYACRYLAMIDE (PAM) AND/OR MULCH TO STABILIZE AREAS LEFT UNDISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH PART III.D.1 OF THE NPDES PERMITS.
7. CONTRACTOR TO PLACE A MINIMUM 4 FT x 8 FT SIGN ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE, AND THE CONTACT PERSON AND TELEPHONE NUMBER.
8. NO MORE THAN 50% OF THE TOTAL PLANNED SITE IS TO BE DISTURBED AT ONE TIME. WORK TO THE SOUTH OF MATCHLINE TO BE COMPLETED AND SITE STABILIZED BEFORE WORK BEGINS ON NORTH SIDE. SEE DEMO SHEETS C2-00-01 FOR MORE INFORMATION
9. APPLY GDOT APPROVED MATTING OR BLANKETS TO ALL SLOPES STEEPER THAN 3:1, SEE C8-00-01 FOR DETAILS.
10. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS
11. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT

## EROSION CONTROL LEGEND:

| | |
|---|---|
| Sd1-C | SILT FENCE TYPE C |
| Sd1-Sb | SAND BAG |
| Co | CONSTRUCTION EXIT |
| Sd2-P | INLET SEDIMENT TRAP "PIGS–IN–A–BLANKET" |
| Ds1 Ds2 | DISTURBED AREA STABILIZATION |
| Du | DUST CONTROL |
| | LIMITS OF DISTURBANCE LOD |
| Sd2-Ex | EXCAVATED INLET SEDIMENT TRAP |

## EROSION CONTROL PHASE I SEQUENCING:

1. INSTALL, SILT FENCE (Sd1-C), CONSTRUCTION ENTRANCE (CO), INLET SEDIMENT TRAP (Sd2-P)
2. SCHEDULE INSPECTION WITH PROJECT DESIGN PROFESSIONAL.
3. REMOVE REQUIRED PAVEMENT TO INSTALL EXCAVATED INLET SEDIMENT TRAP (Sd2-Ex)
4. REMOVE EXISTING SITE FEATURES.
5. REMOVE ALL UNDERGROUND UTILITIES, CAP AT PROPERTY OR CURB LINE.

## OWNER/PRIMARY PERMITTEE:

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
PHONE: (678) 382–6857
CONTACT: BRENT WALKER

## 24 HOUR CONTACT

BRENT WALKER
(678) 382–6857

SITE AREA = 4.78 ACRES

DISTURBED AREA = 5.10 ACRES

GSWCC Georgia Soil and Water Conservation Commission

**BENJAMIN W SKIDMORE**
**Level II Certified Design Professional**

Certification Number 0000068765
Issued: 06/21/2013 Expires: 06/21/2016

GEORGIA REGISTERED No. PE0026080 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE
2-13-15

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60


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| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY PERNOSHAL PARK

EROSION CONTROL PLANS - PHASE I

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

| | |
|---|---|
| SCALE (H): | 1" = 30' |
| SCALE (V): | NONE |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C6-00 |


Drawing name: K:\ATL_LRC\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C6-00_EROSION.dwg C6-00 EROSION CONTROL PLANS – PHASE I Feb 25, 2015 11:17am by: rafael.lawrence
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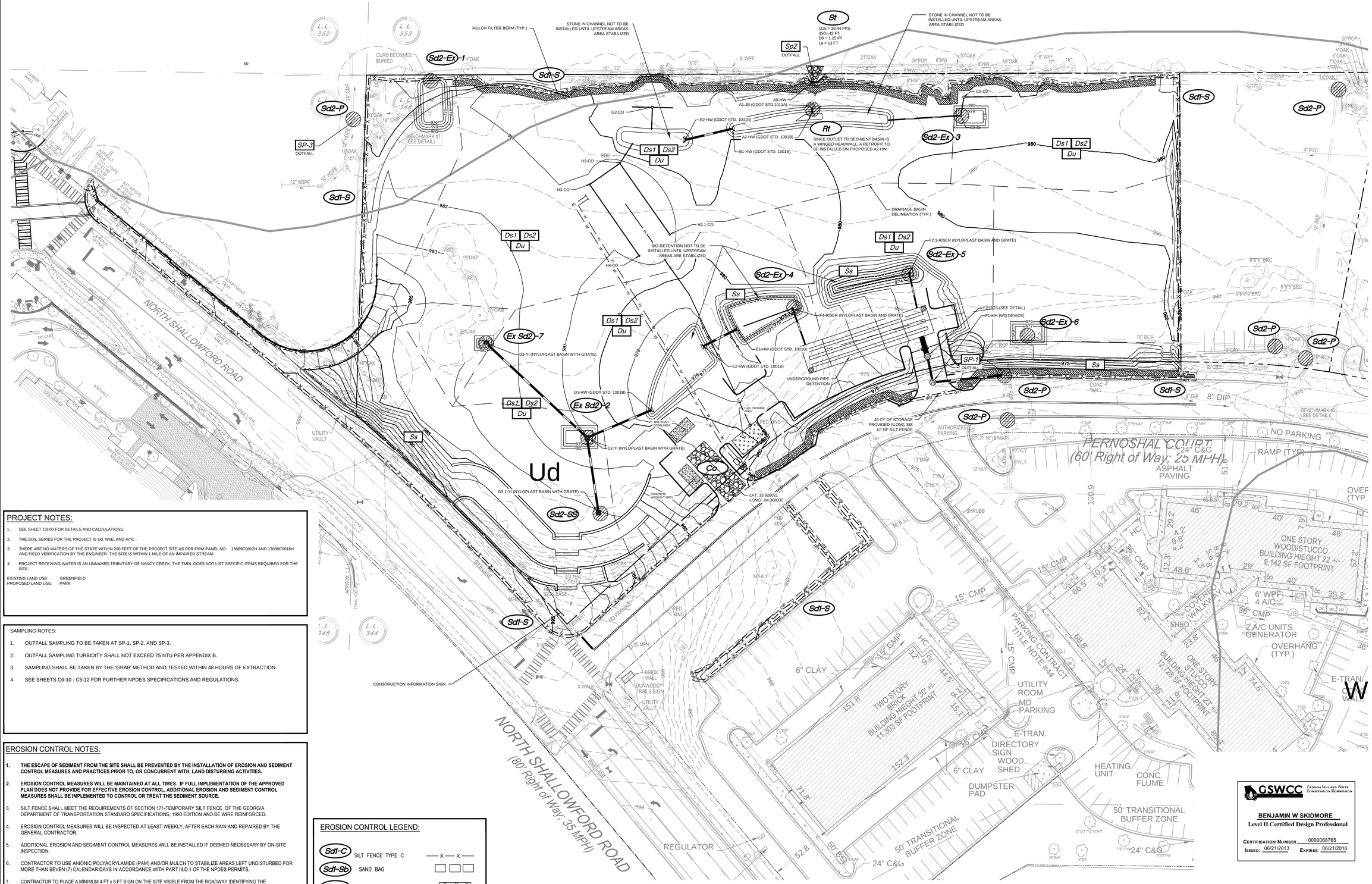


## PROJECT NOTES:

1. SEE SHEET C8-00 FOR DETAILS AND CALCULATIONS.
2. THE SOIL SERIES FOR THE PROJECT IS Ud, WeE, AND AmC .
3. THERE ARE NO WATERS OF THE STATE WITHIN 200 FEET OF THE PROJECT SITE AS PER FIRM PANEL NO. 13089C0012H AND 13089C0016H AND FIELD VERIFICATION BY THE ENGINEER. THE SITE IS WITHIN 1 MILE OF AN IMPAIRED STREAM.
4. PROJECT RECEIVING WATER IS AN UNNAMED TRIBUTARY OF NANCY CREEK. THE TMDL DOES NOT LIST SPECIFIC ITEMS REQUIRED FOR THE SITE.

EXISTING LAND USE: GREENFIELD
PROPOSED LAND USE: PARK

## SAMPLING NOTES:

1. OUTFALL SAMPLING TO BE TAKEN AT SP-1, SP-2, AND SP-3.
2. OUTFALL SAMPLING TURBIDITY SHALL NOT EXCEED 75 NTU PER APPENDIX B.
3. SAMPLING SHALL BE TAKEN BY THE 'GRAB' METHOD AND TESTED WITHIN 48 HOURS OF EXTRACTION.
4. SEE SHEETS C6-10 - C5-12 FOR FURTHER NPDES SPECIFICATIONS AND REGULATIONS.

## EROSION CONTROL NOTES:

1. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.**
2. **EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
3. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION AND BE WIRE REINFORCED.
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6. CONTRACTOR TO USE ANIONIC POLYACRYLAMIDE (PAM) AND/OR MULCH TO STABILIZE AREAS LEFT UNDISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH PART III.D.1 OF THE NPDES PERMITS.
7. CONTRACTOR TO PLACE A MINIMUM 4 FT x 8 FT SIGN ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE, AND THE CONTACT PERSON AND TELEPHONE NUMBER.
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9. APPLY GDOT APPROVED MATTING OR BLANKETS TO ALL SLOPES STEEPER THAN 3:1. SEE C8-00-01 FOR DETAILS.
10. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS
11. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT

## EROSION CONTROL LEGEND:

| | |
|---|---|
| Sd1-C | SILT FENCE TYPE C |
| Sd1-Sb | SAND BAG |
| Co | CONSTRUCTION EXIT |
| Sd2-P | INLET SEDIMENT TRAP "PIGS-IN-A-BLANKET" |
| Ds1 Ds2 | DISTURBED AREA STABILIZATION |
| Du | DUST CONTROL |
| | LIMITS OF DISTURBANCE |
| Sd2-Ex | EXCAVATED INLET SEDIMENT TRAP |

## EROSION CONTROL PHASE II SEQUENCING:

1. BEGIN MASS GRADING OF PROJECT SITE TO LOWEST FOUNDATION EXCAVATION.
2. INSTALL UNDERGROUND UTILITIES INCLUDING: SANITARY SEWER, WATER, AND GAS.
3. INSTALL STORMWATER PIPE DETENTION SYSTEM.
4. BIO-RETENTION AREAS AND WATER FEATURE NOT TO BE INSTALLED UNTIL UPSTREAM AREAS HAVE BEEN STABILIZED.
5. BEGIN FOUNDATION AND VERTICAL CONSTRUCTION.

## OWNER/PRIMARY PERMITTEE:

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
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PHONE: (678) 382-6857
CONTACT: BRENT WALKER

## 24 HOUR CONTACT

BRENT WALKER
(678) 382-6857

SITE AREA = 4.78 ACRES
DISTURBED AREA = 5.10 ACRES

GSWCC Georgia Soil and Water Conservation Commission

**BENJAMIN W SKIDMORE**
**Level II Certified Design Professional**
Certification Number 0000068765
Issued: 06/21/2013 Expires: 06/21/2016

GEORGIA REGISTERED No. PE026090 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE
2-13-15

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60


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DUNWOODY PERNOSHAL PARK

EROSION CONTROL PLANS - PHASE II

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

| | |
|---|---|
| SCALE (H): | 1" = 30' |
| SCALE (V): | NONE |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |

SHEET NUMBER
C6-01


Drawing name: K:\AMT_LRC\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C6-00_EROSION.dwg C6-01 EROSION CONTROL PLANS - PHASE I Feb 25, 2015 11:17am by: rafael.lawrence
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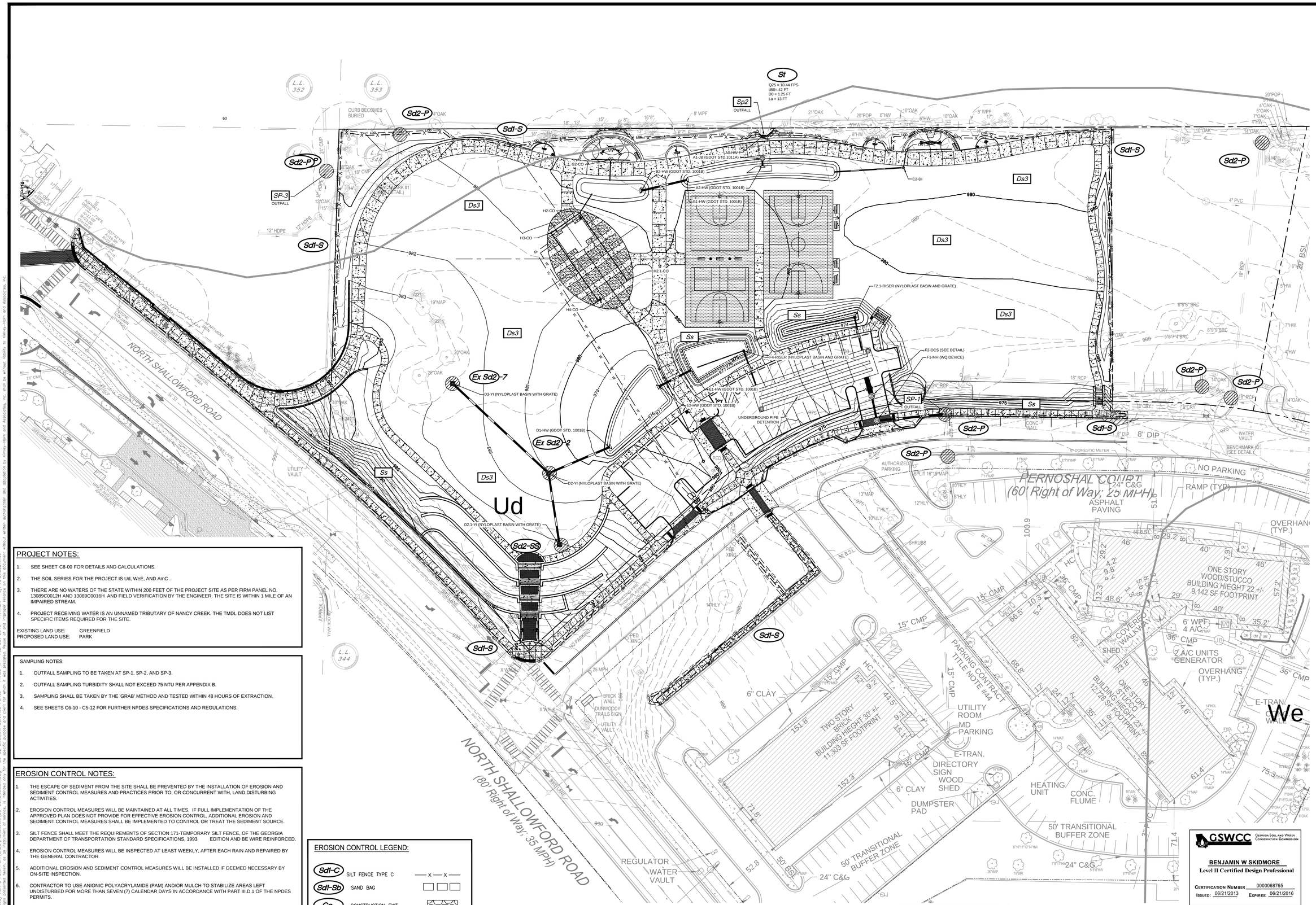


## PROJECT NOTES:

1. SEE SHEET C8-00 FOR DETAILS AND CALCULATIONS.
2. THE SOIL SERIES FOR THE PROJECT IS Ud, WeE, AND AmC .
3. THERE ARE NO WATERS OF THE STATE WITHIN 200 FEET OF THE PROJECT SITE AS PER FIRM PANEL NO. 13089C0012H AND 13089C0016H AND FIELD VERIFICATION BY THE ENGINEER. THE SITE IS WITHIN 1 MILE OF AN IMPAIRED STREAM.
4. PROJECT RECEIVING WATER IS AN UNNAMED TRIBUTARY OF NANCY CREEK. THE TMDL DOES NOT LIST SPECIFIC ITEMS REQUIRED FOR THE SITE.

EXISTING LAND USE: GREENFIELD
PROPOSED LAND USE: PARK

SAMPLING NOTES:

1. OUTFALL SAMPLING TO BE TAKEN AT SP-1, SP-2, AND SP-3.
2. OUTFALL SAMPLING TURBIDITY SHALL NOT EXCEED 75 NTU PER APPENDIX B.
3. SAMPLING SHALL BE TAKEN BY THE 'GRAB' METHOD AND TESTED WITHIN 48 HOURS OF EXTRACTION.
4. SEE SHEETS C6-10 - C5-12 FOR FURTHER NPDES SPECIFICATIONS AND REGULATIONS.

## EROSION CONTROL NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
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3. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION AND BE WIRE REINFORCED.
4. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN AND REPAIRED BY THE GENERAL CONTRACTOR.
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8. NO MORE THAN 50% OF THE TOTAL PLANNED SITE IS TO BE DISTURBED AT ONE TIME. WORK TO THE SOUTH OF MATCHLINE TO BE COMPLETED AND SITE STABILIZED BEFORE WORK BEGINS ON NORTH SIDE. SEE DEMO SHEETS C2-00-01 FOR MORE INFORMATION
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11. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT

## EROSION CONTROL LEGEND:

| | |
|---|---|
| Sd1-C | SILT FENCE TYPE C |
| Sd1-Sb | SAND BAG |
| Co | CONSTRUCTION EXIT |
| Sd2-P | INLET SEDIMENT TRAP "PIGS-IN-A-BLANKET" |
| Ds1 Ds2 | DISTURBED AREA STABILIZATION |
| Du | DUST CONTROL |
| | LIMITS OF DISTURBANCE LOD LOD |
| Sd2-Ex | EXCAVATED INLET SEDIMENT TRAP |

## EROSION CONTROL PHASE III SEQUENCING:

1. PAVILION CONSTRUCTION WILL CONTINUE VERTICALLY.
2. INSTALLATION OF PERMANENT HARDSCAPE AND LANDSCAPE.
3. MAINTAIN INLET PROTECTION AND SILT FENCE UNTIL PROJECT IS STABILIZED.

## OWNER/PRIMARY PERMITTEE:

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
PHONE: (678) 382-6857
CONTACT: BRENT WALKER

## 24 HOUR CONTACT

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SITE AREA = 4.78 ACRES
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| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY PERNOSHAL PARK

EROSION CONTROL PLANS - PHASE III

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

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|---|---|
| SCALE (H): | 1" = 30' |
| SCALE (V): | NONE |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C6-02 |


Drawing name: K:\AMT_LRK\019124002_Dunwoody Ren 5 Acre Park\2400\PlanSheets\C6-02_EROSION.dwg C6-02 EROSION CONTROL PLANS - PHASE III Feb 25, 2015 11:17am by: rafael.lawrence
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# EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN

1. TITLE NOTE:

   THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN SHALL ALSO BE REFERRED TO HEREIN AS THE EROSION CONTROL PLAN. THE CHANGE WILL NOT AFFECT THE PLAN'S COMPLIANCE WITH THE REQUIREMENTS OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN CONTAINED IN THE GENERAL NPDES PERMIT NUMBER GAR 100001.

2. REFERENCE GUIDE:

   ALL SECTION HEADINGS AND CITATIONS REFERENCE THE GENERAL NPDES PERMIT NUMBER GAR 100001 DATED AUGUST 13, 2008.

3. COMPLIANCE NOTE:

   THESE PLANS ARE PROVIDED AS A GUIDE TO ASSIST THE PERMITTEES IN THEIR COMPLIANCE WITH THE GENERAL NPDES PERMIT NUMBER GAR 100001. SHOULD ANY DISCREPANCIES BE FOUND BETWEEN THIS DOCUMENT AND THE PERMIT, THE LANGUAGE AND REQUIREMENTS CONTAINED IN THE PERMIT SHALL GOVERN.

# DESIGN PROFESSIONAL'S CERTIFICATIONS [IV]

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES MEETS THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NUMBER GAR 100001.

12/17/2014 — DATE | [signature] — DESIGN PROFESSIONAL'S SIGNATURE

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

12/17/2014 — DATE | [signature] — DESIGN PROFESSIONALS'S SIGNATURE

6/21/2016 — EXPIRATION DATE | 0000068765 — LEVEL II CERTIFICATION NUMBER

DESIGN PROFESSIONAL'S 7-DAY VISIT CERTIFICATION

DATE OF INSPECTION ____________________

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

____________________ GSWCC LEVEL II DESIGN PROFESSIONAL    ____________ CERTIFICATION #

# NOTICE OF INTENT [II]

THE PRIMARY PERMITTEE AND TERTIARY PERMITTEE(S) MUST RETAIN KIMLEY-HORN AND ASSOCIATES, INC., EXCEPT WHEN THE PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH KIMLEY-HORN AND ASSOCIATES, INC. DESIGNED WITHIN SEVEN (7) DAYS OF INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

1. RESPONSIBLE PARTIES [II.B] [DEFINITIONS PER PART 1.B]:

   A. PRIMARY PERMITTEE [II.B.1] THE OWNER (THE LEGAL OWNER OF THE FACILITY OF SITE WHERE THE CONSTRUCTION ACTIVITY WILL TAKE PLACE) OR THE OPERATOR (THE ENTITY THAT HAS PRIMARY DAY-TO-DAY OPERATION CONTROL OF THOSE ACTIVITIES AT THE FACILITY NECESSARY TO ENSURE COMPLIANCE WITH PERMIT CONDITIONS), OR BOTH, OF A TRACT OF LAND FOR A CONSTRUCTION PROJECT SUBJECT TO THIS PERMIT.

   B. SECONDARY PERMITTEE AN OWNER INDIVIDUAL BUILDER, UTILITY CONTRACTOR, OR SIMILAR ENTITY THAT CONDUCTS A CONSTRUCTION ACTIVITY WITHIN A COMMON DEVELOPMENT.

   C. TERTIARY PERMITTEE BOTH THE OWNER AND THE OPERATOR OF A REMAINING LOT WITHIN A SURFACE WATER DRAINAGE AREA OF A COMMON DEVELOPMENT WHERE THE PRIMARY PERMITTEE HAS SUBMITTED A NOTICE OF TERMINATION.

2. DEADLINES FOR NOTIFICATION [II.A]:

   A. THE NOTICE OF INTENT SHALL BE SUBMITTED AT LEAST FOURTEEN (14) DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. [II.A.1]

   B. WHERE AN OWNER OR AN OPERATOR OR BOTH CHANGES AFTER A NOTICE OF INTENT HAS BEEN FILED, THE SUBSEQUENT OWNER OR OPERATOR OR BOTH MUST FILE A NEW NOTICE OF INTENT AT LEAST SEVEN (7) DAYS BEFORE BEGINNING WORK AT THE FACILITY/SITE. IN THE EVENT A LENDER OR OTHER SECURED CREDITOR ACQUIRES LEGAL TITLE TO THE FACILITY/CONSTRUCTION SITE, SUCH PARTY MUST FILE A NEW NOI IN ACCORDANCE WITH THIS PART BY THE EARLIER TO OCCUR OF (A) SEVEN (7) DAYS BEFORE BEGINNING WORK AT THE FACILITY/CONSTRUCTION SITE; OR (B) THIRTY (30) DAYS FROM ACQUIRING LEGAL TITLE TO THE FACILITY/CONSTRUCTION SITE. STABILIZATION AND BMP INSTALLATION AND/OR MAINTENANCE MEASURES OF A DISTURBED SITE, BY THE SUBSEQUENT OWNER OR OPERATOR, MAY OCCUR IN ADVANCE OF FILING A NEW NOI, WITHOUT VIOLATION OF THIS PERMIT. [II.A.4]

   C. THE PRIMARY PERMITTEE SHALL BE RESPONSIBLE FOR ENSURING THAT ALL SECONDARY AND TERTIARY PERMITTEES COMPLETE AND SUBMIT ALL APPROPRIATE NOTICES OF INTENT.

   D. NOTICES OF INTENT MAY BE SUBMITTED FOR SEPARATE PHASES OF PROJECTS WITH A TOTAL PLANNED DISTURBANCE GREATER THAN 5.0 ACRES, PROVIDED THAT EACH PHASE SHALL NOT BE LESS THAN 1.0 ACRE. [II.B.k]

   E. ALL NOTICES OF INTENT ARE TO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE ENVIRONMENTAL PROTECTION DIVISION ACCORDING TO THE SCHEDULE IN APPENDIX A OF THE PERMIT AND TO THE LOCAL AUTHORITY THAT ISSUED THE LAND DISTURBANCE PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATIVE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOTICE OF TERMINATION (NOT) IS SUBMITTED IN ACCORDANCE WITH PART IV. [II.C]

3. NOTICE OF INTENT CONTENTS [II.B]:

   THE NOTICE OF INTENT SHALL INCLUDE THE FOLLOWING (REFER TO SECTION II.B OF THE PERMIT FOR COMPLETE REQUIREMENTS):
   * THE SITE/PROJECT NAME
   * THE OPERATOR'S OR OWNER'S CONTACT INFORMATION
   * CONTACT INFORMATION FOR THE INDIVIDUAL WITH DAILY OPERATION CONTROL
   * THE NAME OF THE INITIAL RECEIVING WATERS (OR FIRST BLUE LINE STREAM ENCOUNTERED)
   * THE NAME OF THE RECEIVING WATER(S) LOCATED WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF AN IMPAIRED STREAM SEGMENT IDENTIFIED AS "NOT SUPPORTING" ITS DESIGNATED USE(S) SHOWN ON GEORGIA'S 2008 AND SUBSEQUENT "305(b)/303(d) LIST DOCUMENTS (FINAL)"
   * AN ESTIMATED ACTIVITY SCHEDULE FOR THE PROJECT
   * DESIGN COMPLIANCE CERTIFICATION
   * THE TYPE OF CONSTRUCTION ACTIVITY CATEGORY (LISTED ON NOTICE OF INTENT FORM)
   * ALL MONITORING LOCATIONS
   * FOR STAND ALONE CONSTRUCTION DISTURBING MORE THAN 50 ACRES INCLUDE A SINGLE COPY OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
   * ANY OTHER INFORMATION SPECIFIED ON THE NOTICE OF INTENT AT THE TIME OF SUBMITTAL

# SPECIAL CONDITIONS [III.A III.B]

1. ALL COVERED DISCHARGES SHALL BE COMPOSED ENTIRELY OF STORM WATER. EXCEPT AS PROVIDED IN PART I.C.2 AND III.A.2.

2. THE FOLLOWING NON-STORM WATER DISCHARGES MAY BE AUTHORIZED PROVIDED THAT THE NON-STORM WATER COMPONENT OF THE DISCHARGE IS EXPLICITLY LISTED IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AND IS IN COMPLIANCE WITH PART IV.D.7 OF THE PERMIT:
   * DISCHARGES FROM FIRE FIGHTING ACTIVITIES
   * FIRE HYDRANT FLUSHING
   * POTABLE WATER SOURCES WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS, INCLUDING:
     + WATER LINE FLUSHING
     + IRRIGATION DRAINAGE
     + AIR CONDITIONING CONDENSATE
     + SPRINGS
     + UNCONTAMINATED GROUNDWATER
     + FOUNDATION OR FOOTING DRAINS

3. THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORM WATER DISCHARGE(S) FROM THE SITE IS NOT AUTHORIZED BY THIS PERMIT AND SHALL BE PREVENTED. IF A SPILL OCCURS, PERMITTEE IS REQUIRED TO REPORT SPILL IN ACCORDANCE WITH GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT. [III.B.1, III.B.2]

4. THE DISCHARGE OF SANITARY WASTE IN THE STORM WATER DISCHARGE(S) FROM A SITE IS NOT AUTHORIZED BY THIS PERMIT AND SHALL BE PREVENTED.

# IMPAIRED STREAM SEGMENT DISCHARGE [PART III.C]

1. ANY PERMITTEE WHO INTENDS TO OBTAIN COVERAGE UNDER THIS PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN ONE (1) LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN IMPAIRED STREAM SEGMENT IDENTIFIED AS "NOT SUPPORTING" ITS DESIGNATED USE(S), AS SHOWN ON GEORGIA'S 2008 AND SUBSEQUENT "305(b)/303(d) LIST DOCUMENTS (FINAL)" AT THE TIME OF THIS NOI SUBMITTAL, MUST SATISFY PART III.C OF THE PERMIT.

2. EROSION CONTROL PLANS MUST INCLUDE AT LEAST FOUR (4) OF THE BEST MANAGEMENT PRACTICES REFERENCED IN PART III.C.2 FOR THOSE AREAS OF THE SITE WHICH DISCHARGE INTO AN IMPAIRED STREAM SEGMENT.

# MANAGEMENT PRACTICE AND PERMIT VIOLATIONS [III.D]

1. BEST MANAGEMENT PRACTICES (BMP) [III.D.1]:

   A. BEST MANAGEMENT PRACTICES ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.

   B. PROPER DESIGN, INSTALLATION, AND MAINTENANCE OF BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A COMPLETE DEFENSE TO ANY ACTION BY THE DIRECTOR OR TO ANY OTHER ALLEGATION OF NON-COMPLIANCE WITH PART III.D.3 AND PART III.D.4 OF THE PERMIT. THIS DOES NOT PROTECT THE PERMITTEE FROM POTENTIAL LAWSUITS FILED BY DOWNSTREAM PROPERTY OWNERS.

2. PERMIT VIOLATIONS [III.D.2, III.D.3, III.D.4]:

   A. FAILURE TO PROPERLY DESIGN, INSTALL, OR MAINTAIN BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A VIOLATION OF THE PERMIT FOR EACH DAY ON WHICH SUCH FAILURE OCCURS.

   B. IF DURING THE COURSE OF THE PERMITTEES ROUTINE INSPECTION BEST MANAGEMENT PRACTICE FAILURES ARE OBSERVED WHICH HAVE RESULTED IN SEDIMENT DEPOSITION INTO WATERS OF THE STATE, THE PERMITTEE SHALL CORRECT THE BMP FAILURES AND SHALL SUBMIT A SUMMARY OF THE VIOLATIONS TO THE ENVIRONMENTAL PROTECTION DIVISION IN ACCORDANCE WITH PART V.A.2 OF THE PERMIT.

   C. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH THE DISCHARGE RESULTS IN THE TURBIDITY OF THE RECEIVING WATER(S) BEING INCREASED ABOVE THE LEVELS SPECIFIED IN THE PERMIT.

# MANAGEMENT PRACTICE AND PERMIT VIOLATIONS [III.D] (continued)

   D. WHEN THE PERMITTEE HAS ELECTED TO MONITOR OUTFALL(S), THE DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE SELECTED FROM APPENDIX B. THIS VALUE IS INDICATED ON THIS PLAN WHEN MONITORING IS SELECTED.

# TERMINATION OF COVERAGE [VI]

1. NOTICE OF TERMINATION:

   A. A NOTICE OF TERMINATION MUST BE SUBMITTED BY THE PERMITTEE OR THE ENTIRE STAND ALONE DEVELOPMENT HAS UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THE PERMIT HAVE CEASED. [VI.A.1]

   B. FOR CONSTRUCTION ACTIVITIES WHERE THE PRIMARY PERMITTEE HAS ELECTED TO SUBMIT NOTICES OF INTENT FOR SEPARATE PHASES OF THE STAND ALONE DEVELOPMENT, THE PHASE OR PHASES OF THE STAND ALONE DEVELOPMENT ON THE NOTICE OF TERMINATION SHALL CORRESPOND TO THE PHASE OR PHASES ON THE NOTICE OF INTENT AND SHALL HAVE UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THE PERMIT HAVE CEASED. [VI.A.1]

   C. WHEN THE OWNER OR OPERATOR OF THE SITE CHANGES A NOTICE OF TERMINATION MUST BE SUBMITTED. WHERE STORM WATER DISCHARGES WILL CONTINUE AFTER THE CHANGE, THE PERMITTEE MUST, PRIOR TO FILING THE NOTICE OF TERMINATION, NOTIFY ANY SUBSEQUENT OWNER OR OPERATOR OF THE PERMITTED SITE AS TO THE REQUIREMENTS OF THE PERMIT. [VI.A.2]

2. NOTICE OF TERMINATION CONTENTS [VI.B]:

   THE NOTICE OF TERMINATION SHALL INCLUDE THE FOLLOWING (REFER TO SECTION VI.B OF THE PERMIT FOR COMPLETE REQUIREMENTS):
   * THE OPERATOR'S OR OWNER'S CONTACT INFORMATION
   * THE SITE/PROJECT NAME
   * THE NPDES PERMIT NUMBER FOR THE STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY IDENTIFIED BY THE NOTICE OF TERMINATION.
   * THE NAME OF THE INITIAL RECEIVING WATERS (OR FIRST BLUE LINE STREAM ENCOUNTERED)
   * ANY OTHER INFORMATION SPECIFIED ON THE NOTICE OF INTENT AT THE TIME OF SUBMITTAL
   * TERMINATION CERTIFICATION AS REFERENCED IN PART VI.B.6

3. NOTICE OF TERMINATION SUBMITTAL:

   ALL NOTICES OF TERMINATION ARE TO BE SUBMITTED RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE ENVIRONMENTAL PROTECTION DIVISION ACCORDING TO THE SCHEDULE IN APPENDIX A OF THE PERMIT AND TO THE LOCAL AUTHORITY THAT ISSUED THE LAND DISTURBANCE PERMIT. [VI.C]

# STANDARD PERMIT CONDITIONS [V]

1. DUTY TO COMPLY [V.A]:

   A. EACH PERMITTEE MUST COMPLY WITH ALL CONDITIONS OF THE NPDES PERMIT. ANY PERMIT NONCOMPLIANCE CONSTITUTES A VIOLATION OF THE GEORGIA WATER QUALITY CONTROL ACT AND IS GROUNDS FOR ENFORCEMENT ACTION; FOR PERMIT TERMINATION; OR FOR DENIAL OF A PERMIT RENEWAL APPLICATION. [V.A.1]

   B. FAILURE OF A PRIMARY PERMITTEE TO COMPLY WITH ANY APPLICABLE TERM OR CONDITION OF THE PERMIT SHALL NOT RELIEVE ANY OTHER PRIMARY PERMITTEE FROM COMPLIANCE WITH THEIR APPLICABLE TERMS AND CONDITIONS OF THE PERMIT. [V.A.1]

   C. EACH PERMITTEE MUST DOCUMENT IN THEIR RECORDS ANY AND ALL KNOWN VIOLATIONS OF THIS PERMIT AT THEIR SITE WITHIN SEVEN (7) DAYS OF THEIR KNOWLEDGE OF THE VIOLATION. A SUMMARY OF THESE VIOLATIONS MUST BE SUBMITTED TO THE ENVIRONMENTAL PROTECTION DIVISION BY THE PERMITTEE AT THE ADDRESSES SHOWN IN PART II.C WITHIN FOURTEEN (14) DAYS OF DISCOVERING THE VIOLATION. [V.A.2]

   D. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT PROVIDE THAT ANY PERSON WHO FALSIFIES, TAMPERS WITH, OR KNOWINGLY RENDERS INACCURATE ANY MONITORING DEVICE OR METHOD REQUIRED TO BE MAINTAINED UNDER THE PERMIT, MAKES ANY FALSE STATEMENT, REPRESENTATION, OR CERTIFICATION IN ANY RECORD OR OTHER DOCUMENT SUBMITTED OR REQUIRED TO BE MAINTAINED UNDER THE PERMIT, INCLUDING MONITORING REPORTS OR REPORTS OF COMPLIANCE OR NONCOMPLIANCE SHALL, UPON CONVICTION BE PUNISHED BY A FINE OR BY IMPRISONMENT, OR BOTH. VIOLATIONS MAY ALSO BE SUBJECT TO CIVIL PENALTIES AS DESCRIBED IN THE PERMIT. [V.A.3]

2. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE [V.C]:

   IT SHALL NOT BE A DEFENSE FOR THE PERMITTEE IN AN ENFORCEMENT ACTION THAT IT WOULD HAVE BEEN NECESSARY TO HALT OR REDUCE THE PERMITTED ACTIVITY IN ORDER TO MAINTAIN COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT.

3. NEED TO MITIGATE [V.D]:

   THE PERMITTEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.

4. DUTY TO PROVIDE INFORMATION [V.E]:

   THE PERMITTEE SHALL UPON REQUEST FURNISH ANY INFORMATION WHICH IS REQUESTED TO DETERMINE COMPLIANCE WITH THIS PERMIT.

5. OTHER INFORMATION [V.F]:

   WHEN THE PERMITTEE BECOMES AWARE THAT HE FAILED TO SUBMIT ANY RELEVANT FACTS OR SUBMITTED INCORRECT INFORMATION IN THE NOTICE OF INTENT OR IN ANY OTHER REPORT REQUIRED TO BE SUBMITTED TO THE ENVIRONMENTAL PROTECTION DIVISION, THE PERMITTEE SHALL PROMPTLY SUBMIT SUCH FACTS OR INFORMATION.

6. SIGNATORY REQUIREMENTS [V.G]:

   ALL NOTICES OF INTENT, NOTICES OF TERMINATION, EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLANS, REPORTS, CERTIFICATIONS, OR OTHER INFORMATION EITHER SUBMITTED TO THE ENVIRONMENTAL PROTECTION DIVISION OR THE OPERATOR OF A LARGE OR MEDIUM MUNICIPAL SEPARATE STORM SEWER SYSTEM, OR THAT THIS PERMIT REQUIRES SHALL BE MAINTAINED BY THE PERMITTEE AND SIGNED AS DESCRIBED BY SECTION V.G OF THE PERMIT.

7. OIL AND HAZARDOUS SUBSTANCE LIABILITY [V.H]:

   THE PERMIT NEITHER PRECLUDES THE INSTITUTION OF ANY LEGAL ACTION NOR PROTECTS THE PRIMARY PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, THE OFFICIAL CODE OF GEORGIA, THE CLEAN WATER ACT, OR THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

8. PROPER OPERATION AND MAINTENANCE [V.L]

   THE PERMITTEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) WHICH ARE INSTALLED OR USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THE PERMIT AND WITH THE REQUIRED PLANS.

9. INSPECTION AND ENTRY [V.M]:

   THE PERMITTEE SHALL ALLOW THE DIRECTOR OR AN AUTHORIZED REPRESENTATIVE OF THE ENVIRONMENTAL PROTECTION AGENCY, THE ENVIRONMENTAL PROTECTION DIVISION, OR TO DESIGNATED OFFICIALS OF THE LOCAL GOVERNMENT REVIEWING SOIL EROSION AND SEDIMENT CONTROL PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS, UPON THE PRESENTATION OF CREDENTIALS AND OTHER DOCUMENTS AS MAY BE REQUIRED BY LAW, TO:

# STANDARD PERMIT CONDITIONS [V] (continued)

   * ENTER UPON THE PERMITTEE'S PREMISES WHERE A REGULATED FACILITY OR ACTIVITY IS LOCATED OR CONDUCTED OR WHERE RECORDS MUST BE KEPT UNDER THE CONDITIONS OF THE PERMIT.
   * HAVE ACCESS TO AND COPY AT REASONABLE TIMES, ANY RECORDS THAT MUST BE KEPT UNDER THE CONDITIONS OF THE PERMIT.
   * INSPECT AT REASONABLE TIMES ANY FACILITIES OR EQUIPMENT (INCLUDING MONITORING AND CONTROL EQUIPMENT).

10. PERMIT ACTIONS [V.N]

   THE PERMIT MAY BE REVOKED AND REISSUED, OR TERMINATED FOR CAUSE INCLUDING BUT NOT LIMITED TO CHANGES IN THE LAW OR REGULATIONS. THE FILING OF A REQUEST BY THE PERMITTEE FOR TERMINATION OF THE PERMIT, OR A NOTIFICATION OF PLANNED CHANGES OR ANTICIPATED NONCOMPLIANCE, DOES NOT STAY ANY PERMIT CONDITION.

# EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN [IV]

1. CHECKLIST [IV.D.1]:

   A. EACH PLAN SHALL INCLUDE THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED.

2. SITE DESCRIPTION [IV.D.2]:

   A. REFER TO SHEET C6-12 FOR THE CONSTRUCTION ACTIVITY SCHEDULE.

   B. REFER TO SHEET C6-12 FOR THE SITE LOCATION MAP.

   C. REFER TO THE SAMPLING PLAN (WHEN PROVIDED) FOR:
   * THE LOCATION(S) OF THE STORM WATER DISCHARGE(S) AND/OR OUTFALL(S) SELECTED FOR MONITORING
   * THE LOCATION(S) UPSTREAM OF THE CONSTRUCTION SITE SELECTED FOR MONITORING
   * THE DETERMINED NEPHELOMETRIC TURBIDITY UNIT TARGET VALUE SELECTED FROM APPENDIX B OF THE PERMIT
   * THE RATIONALE FOR SELECTING THAT LIMIT INCLUDING THE SURFACE WATER DRAINAGE AREA SIZE CALCULATION AND THE TYPE OF RECEIVING WATERS

   D. REFER TO THE EROSION CONTROL SHEETS FOR A SITE DESCRIPTION COVERING:
   * A DESCRIPTION OF THE NATURE OF THE CONSTRUCTION ACTIVITY
   * TOTAL SITE AND DISTURBED AREAS
   * AN ESTIMATE OF THE RUNOFF COEFFICIENT OR PEAK DISCHARGE FLOW OF THE SITE PRIOR TO CONSTRUCTION ACTIVITIES AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED AND EXISTING DATA DESCRIBING THE SOIL OR THE QUALITY OF ANY DISCHARGE FROM THE SITE.
   * IDENTIFY THE RECEIVING WATER(S) AND EXTENT OF WETLAND ACREAGE AT THE SITE

3. CONTROLS [IV.D.3]:

   A. THE NPDES GENERAL PERMIT NUMBER GAR 100001 CONTAINS THE FOLLOWING DEFINITIONS:
   * EROSION – THE PROCESS BY WHICH LAND SURFACE IS WORN AWAY BY THE ACTION OF WIND, WATER, ICE OR GRAVITY.
   * SEDIMENT – THE SOLID MATERIAL, BOTH ORGANIC AND INORGANIC, THAT IS BEING TRANSPORTED IN SUSPENSION OR HAS BEEN MOVED VIA WIND, WATER, ICE OR GRAVITY.
   * SEDIMENTATION – THE ACTION OR PROCESS OF FORMING OR DEPOSITING THE SEDIMENT THAT IS ERODED.

   B. THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN OFFERS GUIDELINES FOR EROSION AND SEDIMENTATION CONTROL INCLUDING STABILIZING MEASURES, STRUCTURAL PRACTICES, AND SEDIMENT BASINS. ALL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED ACCORDING TO THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.

   * STABILIZING MEASURES [IV.D.3.a.(1)]:
     STABILIZING MEASURES ARE INTENDED TO REDUCE EROSION AND SEDIMENT DAMAGE TO DOWNSTREAM PROPERTIES AND SHALL BE IMPLEMENTED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. THEY INCLUDE BUT ARE NOT LIMITED TO:
     + DISTURBED AREA STABILIZATION WITH MULCHING, TEMPORARY SEEDING, OR PERMANENT VEGETATION
     + DUST CONTROL
     + EROSION CONTROL MATTING AND BLANKETS
     + TACKIFIERS AND BINDERS

     STABILIZATION WILL BE ACCOMPLISHED THROUGH THE USE OF THE STABILIZING MEASURES LISTED ABOVE OR AS OTHERWISE NOTED ON THE EROSION CONTROL PLANS.

   * STRUCTURAL PRACTICES [IV.D.3.a.(2)]:
     STRUCTURAL PRACTICES ARE INTENDED TO REDUCE EROSION AND SEDIMENT ESCAPE FROM THE SITE OF CONSTRUCTION ACTIVITY AND SHALL BE IMPLEMENTED PRIOR TO OR CONCURRENT WITH (AS PRACTICABLE OR GOVERNED BY LOCAL MUNICIPALITIES) CONSTRUCTION ACTIVITIES. THESE PRACTICES INCLUDE BUT ARE NOT LIMITED TO:

     + SILT FENCING: TYPES A, B, AND C AS WARRANTED BY FLOW VELOCITIES AND/OR PROJECT LENGTH
     + CONSTRUCTION EXITS
     + CHECK DAMS: STONE OR HAY BALE DEPENDING UPON FLOW RATES AND DRAINAGE AREAS
     + DOWNDRAINS: TEMPORARY OR PERMANENT
     + RETAINING WALLS: CAST-IN-PLACE CONCRETE OR MODULAR BLOCK
     + RETROFITTING: HALF-ROUND PIPE OR SLOTTED BOARD DAM WITH STONE
     + INLET SEDIMENT TRAPS: TYPES USED WILL VARY DEPENDING UPON FLOW RATES, DRAINAGE AREAS, AND DRAINAGE SLOPES

     + STORM DRAIN OUTLET PROTECTION: RIP-RAP APRON SPECIFICATIONS WILL VARY DEPENDING UPON OVERALL DRAINAGE PARAMETERS
     + SURFACE ROUGHENING: SPECIFIC PRACTICE AND METHOD PRESCRIBED WILL DEPEND UPON TYPE AND RATE OF SLOPE

     THE STRUCTURAL PRACTICES LISTED ABOVE WILL BE USED TO ACCOMPLISH EROSION AND SEDIMENTATION PROTECTION OR AS OTHERWISE NOTED ON THE EROSION CONTROL PLANS.

   * SEDIMENT BASINS [IV.D.3.a.(3)]:
     SEDIMENT BASINS REDUCE THE ESCAPE OF SEDIMENT FROM THE SITE BY TRAPPING IT IN AN EXCAVATED AREA OR BEHIND A SINGLE OR SERIES OF STRUCTURAL PRACTICES WHILE STILL ALLOWING RUNOFF TO LEAVE THE SITE. THESE BASINS ARE EITHER TEMPORARY OR PERMANENT IN NATURE AND MUST COMBINE TO PROVIDE 67 CUBIC YARDS OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED ON THE SITE OF CONSTRUCTION ACTIVITIES. SEDIMENT STORAGE WILL BE PROVIDED THROUGH THE USE OF TEMPORARY SEDIMENT BASINS AND EQUIVALENT CONTROL MEASURES OR AS OTHERWISE NOTED ON THE EROSION CONTROL PLANS. NOTWITHSTANDING ANY OTHER PROVISIONS OF PART IV.D.3.a.(3), PERENNIAL AND INTERMITTENT WATERS OF THE STATE SHALL NOT BE USED FOR TEMPORARY OR PERMANENT SEDIMENT DETENTION.

   A. STORM WATER MANAGEMENT WILL BE PROVIDED BY A WATER QUALITY DEVICE(S). POTENTIAL WATER QUALITY DEVICES THAT COULD BE USED INCLUDE DETENTION PONDS, RETENTION PONDS, OPEN VEGETATIVE SWALES, MECHANICAL DEVICES, OR A SEQUENTIAL SYSTEM. [IV.D.2.B]

   B. WASTE DISPOSAL. LOCATE WASTE COLLECTION AREAS AWAY FROM STREETS, GUTTERS, WATERCOURSES AND STORM DRAINS. WASTE COLLECTION AREAS, SUCH AS DUMPSTERS, ARE OFTEN BEST LOCATED NEAR CONSTRUCTION SITE ENTRANCES TO MINIMIZE TRAFFIC ON DISTURBED SOILS. THE PLAN SHOULD INCLUDE SECONDARY CONTAINMENT AROUND LIQUID WASTE COLLECTION AREAS TO FURTHER MINIMIZE THE LIKELIHOOD OF CONTAMINATED DISCHARGES. SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED INTO WATERS OF THE STATE. PRACTICES SUCH AS TRASH DISPOSAL, RECYCLING, PROPER MATERIAL HANDLING, AND SPILL PREVENTION AND CLEANUP MEASURES CAN REDUCE THE POTENTIAL FOR STORM WATER POLLUTION. THE PROPER MANAGEMENT AND DISPOSAL OF WASTES SHALL BE PRACTICED ON THE SITE(S) OF CONSTRUCTION ACTIVITIES. AT A MINIMUM THE FOLLOWING STEPS SHOULD BE TAKEN TO ENSURE PROPER WASTE DISPOSAL:

   * CONSULT LOCAL AUTHORITIES FOR HAZARDOUS MATERIAL AND SOLID WASTE DISPOSAL REQUIREMENTS
   * EMPTY AND CLEAN HAZARDOUS WASTE CONTAINERS BEFORE DISPOSING THEM ACCORDING TO MANUFACTURER'S GUIDELINES
   * DO NOT REMOVE THE ORIGINAL PRODUCT LABELS FROM HAZARDOUS MATERIAL CONTAINERS
   * DO NOT MIX MATERIALS PRIOR TO DISPOSAL UNLESS RECOMMENDED BY THE MANUFACTURER
   * CLEAN UP SPILLS IMMEDIATELY USING AN ABSORBENT MATERIAL SUCH AS SAWDUST OR GRANULAR ABSORBENT CLAY TO CONTAIN THE SPILL; FOR HAZARDOUS MATERIALS, FOLLOW CLEANUP INSTRUCTIONS ON THE PACKAGE
   * PROVIDE EXTRA CONTAINERS AND INCREASE PICKUP FREQUENCY DURING DEMOLITION
   * COLLECT, REMOVE, AND DISPOSE OF ALL CONSTRUCTION SITE WASTES AT AUTHORIZED DISPOSAL SITES. ONSITE BURIAL OF MATERIALS IS PROHIBITED.
   * DESIGNATE A BUILDING MATERIAL AND/OR WASTE COLLECTION AREA ONSITE THAT DOES NOT RECEIVE A SUBSTANTIAL AMOUNT OF RUNOFF FROM UPLAND AREAS AND DOES NOT DRAIN DIRECTLY TO A BODY OF WATER.
   * ENSURE THAT ALL CONTAINERS HAVE LIDS AND ARE PLACED IN A COVERED AREA WHENEVER POSSIBLE. IF MATERIALS DO NOT HAVE LIDS, COVER CONTAINERS OR MATERIALS WITH TARPS OR PLACE THEM UNDER COVERED AREAS.
   * SURROUND DESIGNATED MATERIAL STORAGE AREAS WITH SILT FENCE OR OTHER BEST MANAGEMENT PRACTICES TO ELIMINATE STORM WATER DISCHARGE DIRECTLY INTO THE STORM SEWER SYSTEM.
   * SCHEDULE WASTE COLLECTION TO PREVENT THE CONTAINERS FROM OVERFILLING
   * WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

   E. PLAN SHALL INCLUDE BMP FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND REAR OF VEHICLES. **WASHDOWN OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.**

4. INSPECTIONS [IV.D.4]:

   A. PERMITTEE REQUIREMENTS:

   1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT:
      a. ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT
      b. ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING

# EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN [IV] (continued)

(2). MEASURE RAINFALL ONCE EVERY TWENTY-FOUR (24) HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST):
   a. DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE
   b. AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION
   c. STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.a.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E. UNTIL NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S)

(5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION , SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE, OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.a.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OS A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THE THE BEST MANAGEMENT PRACTICE ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.E OF THIS PERMIT.

2. MAINTENANCE [IV.D.5]:

   A. ALL BEST MANAGEMENT PRACTICES SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN SHALL BE MAINTAINED ACCORDING TO THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.

   B. ALL DAMAGE DISCOVERED DURING THE REQUIRED INSPECTIONS SHALL BE PROPERLY REPAIRED AND STRUCTURAL BEST MANAGEMENT PRACTICES SHALL BE CLEANED OUT AS FOLLOWS:

   * CHECK DAMS – REMOVE SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE CHECK DAM
   * CONSTRUCTION EXITS – PERIODIC REDRESSING WITH STONE MAY BE REQUIRED
   * RETROFITTINGS – REMOVE ALL TRASH AND DEBRIS AND REMOVE SEDIMENT WHEN THE SEDIMENT HAS REACHED A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE RETROFIT.
   * SILT FENCING – SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO A DEPTH EQUAL TO ONE-HALF OF THE HEIGHT OF THE SILT FENCE.
   * INLET SEDIMENT TRAPS – SEDIMENT SHALL BE REMOVED WHEN THE TRAP IS ONE-HALF FULL OR HAS REACHED ONE-HALF OF ITS STORAGE CAPACITY
   * SEDIMENT BASINS – SEDIMENT SHALL BE REMOVED AS SPECIFIED BY EACH BASIN DESIGN

GSWCC — GEORGIA SOIL AND WATER CONSERVATION COMMISSION

**BENJAMIN W SKIDMORE**
**Level II Certified Design Professional**
CERTIFICATION NUMBER 0000068765
ISSUED: 06/21/2013   EXPIRES: 06/21/2016

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| No. | REVISIONS | DATE | BY |
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DUNWOODY PERNOSHAL PARK

NPDES NOTES

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GEORGIA REGISTERED No. PE038066 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE 2-13-15

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## EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN [IV] (continued)

7. SAMPLING ANALYSIS

A. STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT. EPA 833-8-92-001."

B. STORM WATER IS TO BE SAMPLED FOR NEPHOLOMETRIC TURBIDITY UNITS (NTU) AT SP-1, SP-2, AND SP-3 THE OUTFALL LOCATION SHOWN ON SHEETS C6-00, C6-01, C6-02. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 75. THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT NO. GAR 100001. THE NTU IS BASED ON THE DISTURBED ACREAGE OF 5.10 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF 0-4.99 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

8. SAMPLING REQUIREMENTS [IV.D.6]:

B. THE PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALL(S).

C. SAMPLING REQUIREMENTS [IV.D.6.a]:

* SITE MAP AS DETAILED IN PART IV.D.6.a.(1) OF THE PERMIT
* A WRITTEN NARRATIVE OF THE SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE, AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES, AND PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION
* A RATIONALE FOR THE NEPHELOMETRIC TURBIDITY UNIT (NTU) LIMIT(S) SELECTED FROM APPENDIX B OF THE PERMIT, INCLUDING THE SIZE OF THE FACILITY OR CONSTRUCTION, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATERS
* ANY ADDITIONAL INFORMATION REQUIRED BY THE ENVIRONMENTAL PROTECTION DIVISION REQUESTED VIA WRITTEN NOTICE TO THE PERMITTEE.

C. SAMPLE TYPES [IV.D.6.b]:

* ALL SAMPLES SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS MUST BE CONDUCTED AS INDICATED IN PART IV.D.5.b OF THE PERMIT.
* LABEL ALL SAMPLE CONTAINERS PRIOR TO COLLECTING THE SAMPLE
* MIX SAMPLES WELL BEFORE TRANSFERRING THEM TO A SECONDARY CONTAINER
* SAMPLE CONTAINERS SHOULD BE LARGE MOUTH, THOROUGHLY CLEANED AND RINSED GLASS O PLASTIC JARS.
* MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED
* SAMPLES SHOULD BE ANALYZED IMMEDIATELY, BUT NOT LATER THAN 48 HOURS AFTER COLLECTION
* DILUTION OF SAMPLES IS NOT REQUIRED
* SAMPLES ARE NOT REQUIRED TO BE COOLED
* SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALL(S) BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED TO THE ENVIRONMENTAL PROTECTION DIVISION AS SPECIFIED IN PART IV.E OF THE PERMIT.

D. SAMPLING POINTS [IV.D.6.c]:

* FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION THEREOF [IV.D.6.c.(1)]
* THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE FIRST STORM WATER DISCHARGE FROM THE SITE OF PERMITTED ACTIVITY, BUT DOWNSTREAM OF ANY DISCHARGES NOT ASSOCIATED WITH PERMITTED ACTIVITY. [IV.D.6.c.(1).(a)]
* THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER MUST BE TAKEN DOWNSTREAM OF THE LAST STORM WATER DISCHARGE FROM THE SITE OF PERMITTED ACTIVITY, BUT UPSTREAM OF ANY DISCHARGES NOT ASSOCIATED WITH PERMITTED ACTIVITY. [IV.D.6.c.(1).(b)]
* THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER (S) OR OUTFALL STORM WATER CHANNEL(S) [IV.D.6.c.(1).(c)]
* DO NOT STIR BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR OUTFALL STORM WATER CHANNEL [IV.D.6.c.(1).(d)]
* THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE CONTAINER FACES UPSTREAM [IV.D.6.c.(1).(e)]
* KEEP THE SAMPLES FREE OF FLOATING DEBRIS [IV.D.6.c.(1).(F)]
* PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT [IV.D.6.C.(1).(g)]
* ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARDS SET FORTH IN THE PERMIT [IV.D.6.c.(1).(h)]

E. SAMPLING FREQUENCY [IV.D.6.d]:

* STORM WATER SAMPLES SHALL BE TAKEN FOR THE FOLLOWING STORM EVENTS:
  + FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCHES AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * (MONDAY THROUGH FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, 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 SAMPLING LOCATION
  + IN ADDITION TO THE ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCHES AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * THAT OCCURS EITHER 90 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 SAMPLING LOCATION, WHICHEVER COMES FIRST
  + AT THE TIME OF SAMPLING PERFORMED PURSUANT TO THE 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 TWO (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 INCHES DURING NORMAL BUSINESS HOURS * UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVEN INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED

9. NON-STORM WATER DISCHARGES [IV.D.7]:

EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, ANY SOURCES OF NON-STORM WATER LISTED IN PART III.A.2 OF THE PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY ARE IDENTIFIED IN THE PLAN AND HAVE APPROPRIATE POLLUTION PREVENTION MEASURES.

## REPORTING [IV.E]

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO EPD AT THE ADDRESS SHOWN IN PART II.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 NOTIFICATIONS, EPD MAY REQUIRE THE APPLICABLE PERMITTEE 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.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:

a. THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
b. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
c. THE DATE(S) ANALYSES WERE PERFORMED;
d. THE TIME(S) ANALYSES WERE INITIATED;
e. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSIS;
f. REFERENCE AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
g. THE RESULTS OF SUCH ANALYSIS, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS AND;
h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEED 1000 NTU"
i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOTICE OF TERMINATION IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

## RETENTION OF RECORDS [IV.F]

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOTICE OF TERMINATION (NOT) IS SUBMITTED IN ACCORDANCE WITH PART VI:

a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD
b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT
c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT
d. A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT
e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THIS PERMIT
f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT
g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(1)(c) OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, 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 (3) YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE RETAINED AT THE PRIMARY PERMITTEE'S PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION 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

## PROJECT DESCRIPTION

PROJECT SUMMARY
PROJECT SCOPE INCLUDES THE DEVELOPMENT OF A FORMER MEDICAL SITE. THE SITE IS VACANT, AND WILL BE DEVELOPED INTO CITY PARK SPACE. IMPROVEMENTS INCLUDE THE CONTINUATION OF A MULTI-USE TRAIL, TERRACE SEATING, IMPROVED STREETSCAPE, SURFACE PARKING, PAVILION STRUCTURE WITH BATHROOMS, MULTI-USE COURTS, AND FIELDS.

THE PARK WILL USE A COMBINATION OF UNDERGROUND PIPE DETENTION AND BIO-RETENTION AREA TO PROVIDE DETENTION FOR THE SITE. THE SITE WILL HAVE THREE BIO-RETENTION AREAS WITH OVERFLOW RISERS THAT DRAIN TO THE UNDERGROUND DETENTION FACILITY. THE UNDERGROUND DETENTION FACILITY CONSISTS OF FOUR ROWS OF 135 LINEAR FOOT 48" HDPE WITH HEADERS. AN OCS LOCATED IMMEDIATELY DOWNSTREAM OF THE FACILITY WILL CONTROL FLOWS LEAVING THE SITE.

THE PROJECT DOES NOT PROPOSE ANY ENCROACHMENTS INTO THE STATE WATERS BUFFER AREA.

THE PROJECT RECEIVING WATER FOR THIS SITE IS AN UNNAMED TRIBUTARY OF NANCY CREEK THAT DISCHARGES TO NANCY CREEK. THE PROJECT IS WITHIN 1 LINEAR MILE OF NANCY CREEK WHICH IS AN IMPAIRED STREAM. SEE APPENDIX 1 MEASURES ON SHEET C6-12 FOR IMPLEMENTATION OF ADDITIONAL MEASURES PER NPDES PERMIT. THE TMDL FOR NANCY CREEK DOES NOT LIST ADDITIONAL SITE SPECIFIC MEASURES TO BE IMPLEMENTED.

PRE RUNOFF CURVE NUMBER: 79
POST RUNOFF CURVE NUMBER: 73

DURING CONSTRUCTION THE EXCAVATION FOR THE BIO-RETENTION AREAS AND STONE WATER FEATURE WILL BE USED FOR SEDIMENT STORAGE AS WELL AS EXCAVATED Sd2'S WHERE NECESSARY. INLET SEDIMENT TRAPS AND INTERIOR SITE SILT FENCE WILL PROVIDE SEDIMENT PROTECTION. AFTER CONSTRUCTION THE BIO-RETENTION AREAS AND STONE WATER FEATURE WILL REMAIN TO PROVIDE WATER QUALITY FOR THE SITE.

## EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

1. COMPREHENSIVE:

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

B. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE AT A MINIMUM IN CONFORMANCE WITH THE REQUIREMENTS OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, AND THE CITY OF DUNWOODY CODES GOVERNING EROSION AND SEDIMENTATION CONTROL. 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.

C. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE STANDARDS SPECIFIED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION, AND CITY OF DUNWOODY STANDARDS.

D. **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.**

E. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

F. THE CONSTRUCTION OF THE SITE WILL COMMENCE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.

G. CONSTRUCTION EXITS SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE AND SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE AS CONDITIONS DEMAND, REPAIR, AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OFF SITE ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. THE PAVED STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT, OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

H. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

I. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION.

J. EROSION CONTROL DEVICES ARE TO BE INSTALLED AND FULLY OPERATIONAL PRIOR TO ANY DEMOLITION.

K. SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171 – TEMPORARY SILT FENCE OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, CURRENT EDITION, THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, AND CITY OF DUNWOODY STANDARDS.

L. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.

1. DURING CONSTRUCTION:

A. ON SITE DUST CONTROL DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS.

B. ALL OPEN SWALES MUST BE GRASSED AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION. STONE FOR RIP-RAP SHALL CONSIST OF ROUGH UN-HEWN QUARRY GRANITE AS NEARLY IN RECTANGULAR SECTION AS PRACTICAL. THE MINIMUM SIZE STONE SHALL WEIGH BETWEEN 75 AND 150 POUNDS AND SHALL BE HAND PLACED AS A LOOSE STONE EMBANKMENT.

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

D. AT ANY TIME DURING CONSTRUCTION IF IT BECOMES NECESSARY TO PUMP STORM WATER OR GROUNDWATER FROM AN EXCAVATION, THE PUMPED WATER MUST MEET THE TURBIDITY REQUIREMENTS OUTLINED IN THE SITE SPECIFIC EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. WATER THAT DOES NOT MEET THESE REQUIREMENTS MUST BE FILTERED OR DISCHARGED INTO A TEMPORARY SEDIMENT BASIN UNTIL IT MEETS THE TURBIDITY REQUIREMENTS. ONCE THE TURBIDITY REQUIREMENTS HAVE BEEN MET THE WATER MAY BE DISCHARGED INTO THE STORM SEWER SYSTEM. AS A MINIMUM TURBIDITY TESTS SHOULD BE PERFORMED AS DESCRIBED IN THE PERMIT. THESE SAME REQUIREMENTS APPLY TO ALL AUTHORIZED NON-STORM WATER DISCHARGES UNDER THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES (DNR) ENVIRONMENTAL PROTECTION DIVISION (EPD) GENERAL PERMIT NO. GAR 100001, AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

3. SOIL CLEANUP AND CONTROL PRACTICES REGARDING PETROLEUM SPILLS AND LEAKS

A. LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.

B. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

C. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

D. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.

E. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.

F. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.

G. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACT WITHIN 24 HOURS.

H. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

I. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ON SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY A LICENSED PROFESSIONAL.

4. PRODUCT SPECIFIC PRACTICES

A. PETROLEUM BASED PRODUCTS – CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER , NATURAL DRAINS, AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHOD WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

## EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES (continued)

B. PAINTS, FINISHES, AND SOLVENTS – ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCTS, MATERIALS USED WITH THESE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND STANDARDS.

C. CONCRETE TRUCK WASHING – NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON SITE.

D. FERTILIZER/HERBICIDES – THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

E. BUILDING MATERIALS – NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF . ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

5. WASTE MATERIALS

A. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY SECTION 404 PERMIT.

B. ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED 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. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE.

C. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

6. HAZARDOUS WASTES

A. 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 THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS) 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 PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOBSITE CONSTRUCTION TRAILER OFFICE. 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.

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

7. SANITARY WASTES

A. A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

B. ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE WILL IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIFICALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE, SHEET C-4B, BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

C. SANITARY SEWER WILL BE PROVIDED BY THE CITY OF DUNWOODY AT THE COMPLETION OF THIS PROJECT.

8. OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. SEE SHEET C6-01 TO C6-03 FOR CONSTRUCTION EXIT LOCATION AND DETAILS. THE PAVED STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

GSWCC — GEORGIA SOIL AND WATER CONSERVATION COMMISSION
BENJAMIN W SKIDMORE
Level II Certified Design Professional
CERTIFICATION NUMBER 0000068765
ISSUED: 06/21/2013 EXPIRES: 06/21/2016

Kimley»Horn
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| No. | REVISIONS | DATE | BY |
| --- | --- | --- | --- |

DUNWOODY PERNOSHAL PARK

NPDES NOTES

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

GEORGIA REGISTERED No. PE038066 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE 2-13-15

| | |
| --- | --- |
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |

SHEET NUMBER
C6-11

## EROSION CONTROL LEGEND

STABILIZATION MEASURES:

| Symbol | Description |
|---|---|
| Bf | BUFFER ZONE |
| Cs | COASTAL DUNE STABILIZATION |
| Ds1 | DISTURBED AREA STABILIZATION: (WITH MULCHING ONLY) |
| Ds2 | DISTURBED AREA STABILIZATION: (WITH TEMPORARY SEEDING) |
| Ds3 | DISTURBED AREA STABILIZATION: (WITH PERMANENT VEGETATION) |
| Ds4 | DISTURBED AREA STABILIZATION: (WITH SODDING) |
| Du | DUST CONTROL ON DISTURBED AREAS |
| Mb | MATTING AND BLANKETS |
| Pm | POLYACRYLAMIDE (PAM) |
| Sb | STREAM BANK STABILIZATION: (USING PERMANENT VEGETATION) |
| Tb | TACKIFIERS AND BINDERS |
| Sp | SAMPLING POINT |
| Su | SURFACE ROUGHENING |

STRUCTURAL MEASURES:

| Symbol | Description |
|---|---|
| Cd-S | STONE CHECK DAM |
| Cd-Hb | HAY BALE CHECK DAM |
| Ch-V | CHANNEL STABILIZATION: VEGETATED LINING |
| Ch-Rp | CHANNEL STABILIZATION: ROCK RIP-RAP LINING |
| Ch-C | CHANNEL STABILIZATION: CONCRETE LINING |
| Co | CONSTRUCTION EXIT |
| Cr | CONSTRUCTION ROAD STABILIZATION |
| Dc-A | STREAM DIVERSION CHANNEL: GEOTEXTILE, POLYETHYLENE FILM, OR SOD |
| Dc-B | STREAM DIVERSION CHANNEL: GEOTEXTILE ALONE |
| Dc-C | STREAM DIVERSION CHANNEL: CLASS I RIP-RAP AND GEOTEXTILE |
| Di | DIVERSION |
| Dn1 | TEMPORARY DOWNDRAIN STRUCTURE |
| Dn2 | PERMANENT DOWNDRAIN STRUCTURE |
| Fr | FILTER RING |
| Ga | GABION |
| Gr | GRADE STABILIZATION STRUCTURE |
| Lv | LEVEL SPREADER |
| Rd | ROCK FILTER DAM |
| Re | RETAINING WALL |
| Rt-P | RETROFITTING: HALF-ROUND PIPE WITH STONE FILTER |
| Rt-B | RETROFITTING: BOARD DAM WITH STONE |
| Sd1-A | TYPE A SILT FENCE |
| Sd1-B | TYPE B SILT FENCE |
| Sd1-C | TYPE C SILT FENCE |
| Sd1-S | SANDBAGS |
| Sd1-Hb | HAY OR STRAW BALES |
| Sd1-Bb | BRUSH BARRIER |
| Sd2 | INLET SEDIMENT TRAP |
| Sd2-F | INLET SEDIMENT TRAP: FILTER FABRIC WITH SUPPORTING FRAME |
| Sd2-B | INLET SEDIMENT TRAP: BAFFLE BOX |
| Sd2-Bg | INLET SEDIMENT TRAP: BLOCK AND GRAVEL DROP INLET PROTECTION |
| Sd2-G | INLET SEDIMENT TRAP: GRAVEL DROP INLET PROTECTION |
| Sd2-S | INLET SEDIMENT TRAP: SOD INLET PROTECTION |
| Sd2-P | INLET SEDIMENT TRAP: CURB INLET PROTECTION |
| Sd2-Ss | INLET SEDIMENT TRAP: SILT SAVER |
| Sd2-Rb | INLET SEDIMENT TRAP: ROCK BAG |
| Sd3 | TEMPORARY SEDIMENT BASIN |
| Sr-B | TEMPORARY STREAM CROSSING: BRIDGE CROSSING |
| Sr-C | TEMPORARY STREAM CROSSING: CULVERT CROSSING |
| St | STORM DRAIN OUTLET PROTECTION |
| Su | SURFACE ROUGHENING |
| Tp | TOPSOILING |
| Wt | VEGETATED WATERWAY OR STORM WATER CONVEYANCE CHANNEL |

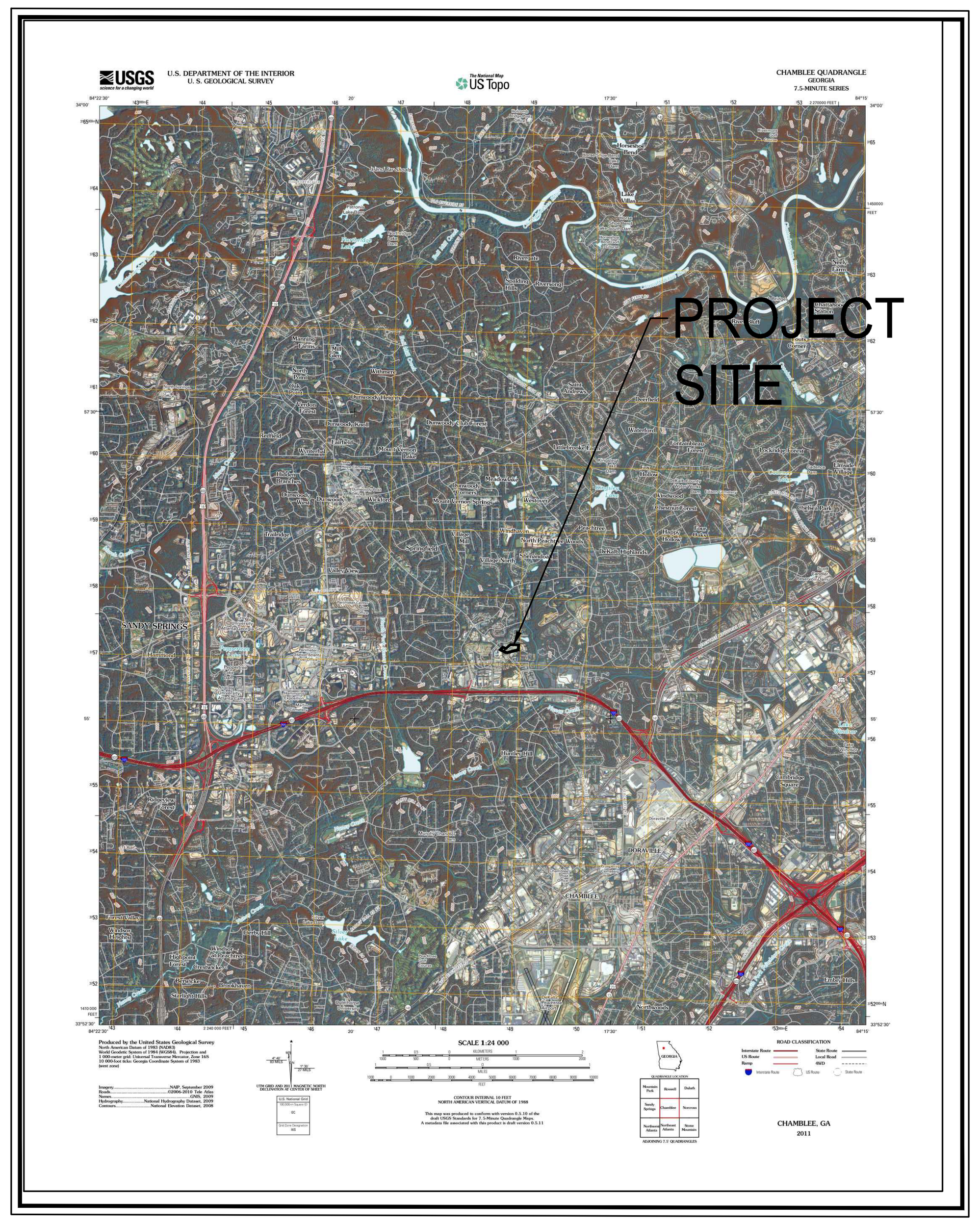
START DATE 04/2015
END DATE 10/2015

THIS SCHEDULE IS TO BE USED FOR PERMITTING PURPOSES ONLY. REFER TO APPROVED PROJECT SCHEDULE FOR EXACT CONSTRUCTION SEQUENCING.

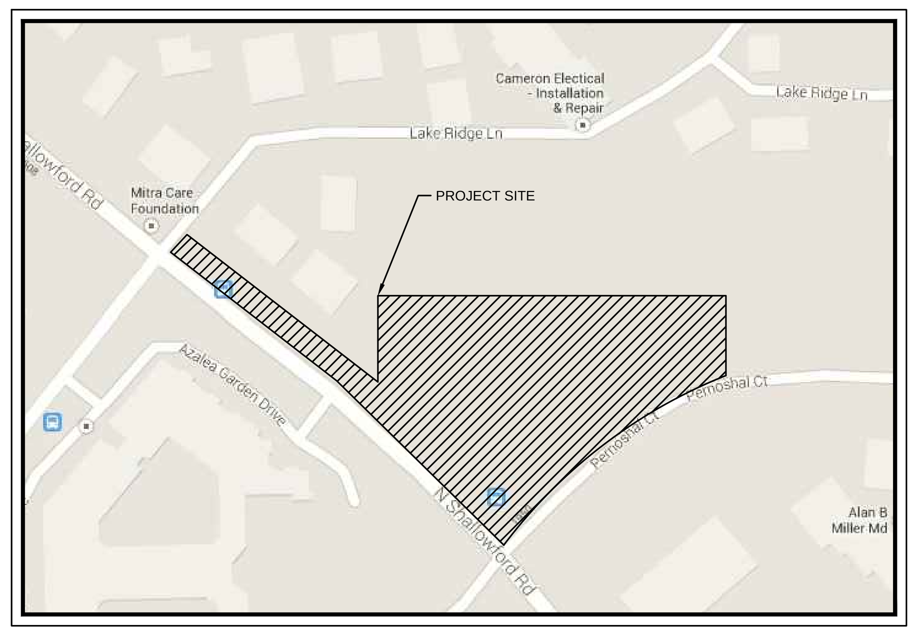
| DESCRIPTION | MONTH 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| INSTALL TREE PROTECTION | | | | | | |
| INITIAL EROSION CONTROL BMP INSTALLATION | | | | | | |
| SD3 INSTALLATION AND MAINTENANCE | | | | | | |
| DEMOLITION | | | | | | |
| CLEARING, GRUBBING, GRADING | | | | | | |
| TEMPORARY GRASSING | | | | | | |
| PERMANENT GRASSING (IF APPLICABLE) | | | | | | |
| INTER. EROSION CONTROL BMPS INSTALLATION | | | | | | |
| MAINT. OF EROSION CONTROL DEVICES | | | | | | |
| MAINTENANCE OF TREE PROTECTION | | | | | | |
| STORM AND SANITARY SEWER INSTALLATION | | | | | | |
| BUILDING CONSTRUCTION | | | | | | |
| FINAL EROSION CONTROL BMPS INSTALLATION | | | | | | |
| FINAL PAVING | | | | | | |
| CLEARING OF STORM DRAINS | | | | | | |
| FINAL LANDSCAPING | | | | | | |
| REMOVAL OF EROSION CONTROL MEASURES | | | | | | |

ACTIVITY SCHEDULE

GSWCC Georgia Soil and Water Conservation Commission
BENJAMIN W SKIDMORE
Level II Certified Design Professional
Certification Number 0000068765
Issued: 06/21/2013 Expires: 06/21/2016




U.S.G.S. TOPOGRAPHIC MAP
NORTHWEST ATLANTA QUAD
N.T.S.




LOCATION MAP
NOT TO SCALE

### WARM WATER (SUPPORTING WARM WATER FISHERIES)

| SITE SIZE, ACRES | 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+ |
|---|---|---|---|---|---|---|---|---|
| 1.00-10 | 75 | 150 | 200 | 400 | 750 | 750 | 750 | 750 |
| 10.01-25 | 50 | 100 | 100 | 200 | 300 | 500 | 750 | 750 |
| 25.01-50 | 50 | 50 | 100 | 100 | 200 | 300 | 750 | 750 |
| 50.01-100 | 50 | 50 | 50 | 100 | 100 | 150 | 300 | 600 |
| 100.01+ | 50 | 50 | 50 | 50 | 50 | 100 | 200 | 100 |

APPENDIX B
NEPHELOMETRICK TURBIDITY UNIT (NTU) TABLE

1. GENERAL NOTES:

A. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A TWENTY-FIVE FOOT (25') BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION. VARIANCES MAY BE OBTAINED FROM THE DIRECTOR AS DETAILED IN SECTION IV.(i) OF THE PERMIT. [IV.(i)]

B. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A FIFTY FOOT (50') BUFFER ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS 'TROUT STREAMS,' AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION. VARIANCES MAY BE OBTAINED FROM THE DIRECTOR AS DETAILED IN SECTION IV.(ii) OF THE PERMIT. [IV.(ii)]

C. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND-DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. AFTER THE SUBMITTAL OF A NOTICE OF TERMINATION, A BUFFER MAY BE THINNED OR TRIMMED OF VEGETATION AS LONG AS A PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED. [IV.(iii)]

D. ANY AND ALL REVISIONS OR AMENDMENTS TO THIS ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON THE BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE PLAN.

### APPENDIX 1

**THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO A IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 5O ACRES OR MORE AT ANY ONE TIME.**

The four items chosen must be appropriate for the site conditions.

| Plan Page # | Included Y/N | Item |
|---|---|---|
| | N | a. During construction activities, double the width of the 25 foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50 foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width. |
| | N | b. Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained. |
| | N | c. Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure. |
| C6-00 - 02 | Y | d. A large sign (minimum 4 feet x 8 feet) must be on the site on the actual start date of construction visible from a public roadway identifying the construction site, the permittee(s), and the contact person(s) and telephone number(s) until a NOT has been submitted. |
| C6-00 - 02 | Y | e. Use anionic polyacrylamide (PAM) and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Part III. D.1. of the NPDES Permit. |
| | N | f. Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Part IV.D.6.d. of the NPDES Permits. |
| | N | g. Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6 (a)(1). |
| | N | h. Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the plan. |
| | N | i. Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned is less. All calculations must be included on the plan. |
| | N | j. Use "Dirt II" techniques available on the EPD website, www.gaepd.org (e.g., seep berms, sand filters, anionic PAM) to model and manage construction storm water runoff (including sheet flow). All calculations must be included on the Plan. |
| | N | k. Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site. |
| C6-00 - 02 | Y | l. Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow. |
| C6-00 - 02 | Y | m. Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1. All graphical illustrations must be included on the Plan. |
| | N | n. Use appropriate erosion control matting or blankets instead of concrete in all construction storm water ditches and storm drainages designed for a 25 year, 24 hour rainfall event. |
| | N | o. Use anionic PAM under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins. |
| | N | p. Install sod for a minimum 20 foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever storm water (including sheet flow) may be discharged. |
| | N | q. Conduct soil tests to identify and to implement site-specific fertilizer needs. |
| | N | r. Certified personnel for primary permittees shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3).(a) – (c); secondary permittees, Part IV.D.4.b.(3). (a) – (c); and tertiary permittees Part IV.D.4.c.(3).(a) – (c) . |
| | N | s. Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity. |
| | N | t. Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by aDesign Professional (unless disapproved by EPD or the State Soil and Water Conservation Commission). ( If using this item please refer to the Alternative BMP guidance document found at www.gaswcc.georgia.gov ) |
| | N | u. Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any state mandated buffer areas from such calculations). All calculations must be included in the plan. |

**Effective January 1, 2014**

Total Maximum Daily Load Evaluation
Chattahoochee River Basin (Biota Impacted)
January 2008

**SUMMARY MEMORANDUM**
**Annual Average Sediment Load**
**Nancy Creek**

**1. 303(d) Listed Waterbody Information**

**State:** Georgia
**County:** DeKalb/Fulton

**Major River Basin:** Chattahoochee
**8-Digit Hydrologic Unit Code(s):** 03130001

**Waterbody Name:** Nancy Creek
**Location:** Headwaters to Peachtree Creek, Atlanta
**Stream Length:** 16 miles
**Watershed Area:** 35.9 square miles
**Tributary to:** Peachtree Creek
**Ecoregion:** Piedmont

**Constituent(s) of Concern:** Sediment

**Designated Use:** Fishing (not supporting designated use)

**Applicable Water Quality Standard:**
All waters shall be free from material related to municipal, industrial or other discharges which produce turbidity, color, odor or other objectionable conditions which interfere with legitimate water uses.

**2. TMDL Development**

**Analysis/Modeling:**
Universal Soil Loss Equation was used to determine the average annual sediment load

**3. Allocation Watershed/Stream Reach:**

**Wasteload Allocations (WLA):** 170.8 tons/yr
DeKalb Co. – Scott Candler WTP: 30 mg/L (170.8 tons/yr)
Future Construction Sites: Meet requirements of General Storm Water Permit

**Wasteload Allocations ($WLA_{SW}$):** 1,068.5 tons/yr

**Load Allocation (LA) :** 457.9 tons/yr

**Margin of Safety (MOS):** implicit

**Annual Average Sediment Load:** 1,697.1 tons/yr

**Maximum Daily Sediment Load:** 218.9 tons/day

Georgia Environmental Protection Division
Atlanta, Georgia
A-14

### EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
### STAND ALONE CONSTRUCTION PROJECTS

**SWCD:** DEKALB COUNTY

**Project Name:** Dunwoody Pernoshal Park **Address:** 1959 PERNOSHAL COURT
**City/County:** DUNWOODY/DEKALB **Date on Plans:** 9/19/2014

**TO BE SHOWN ON ES&PC PLAN**

| Plan Page # | Included Y/N | No. | Item |
|---|---|---|---|
| C6-12 | Y | 1 | The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed) |
| ALL | Y | 2 | Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed) |
| N/A | N/A | 3 | Limit of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist.* (A copy of the written approval by EPD must be attached to the plan for the plan to be reviewed.) |
| C0-00 | Y | 4 | The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls. |
| C0-00 | Y | 5 | Provide the name, address and phone number of primary permittee. |
| ALL | Y | 6 | Note total and disturbed acreage of the project or phase under construction. |
| C6-00 | Y | 7 | Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees. |
| ALL | Y | 8 | Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions. |
| C6-11 | Y | 9 | Description of the nature of construction activity. |
| C6-12 | Y | 10 | Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary. |
| C6-11 | Y | 11 | Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected. |
| C6-10 | Y | 12 | Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit. |
| C6-10 | Y | 13 | Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit.* |
| C6-10 | Y | 14 | Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."* |
| C6-00 | Y | 15 | Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits." |
| C6-10 | Y | 16 | Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."* |
| C6-00 | Y | 17 | Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."* |
| C6-00 | Y | 18 | Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities." |
| C6-00 | Y | 19 | Clearly note statement that "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." |
| C6-00 | Y | 20 | Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." |
| ALL | Y | 21 | Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.* |
| C6-12 | Y | 22 | If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 21 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.* |
| C6-01 | Y | 23 | BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.* |
| C6-10 | Y | 24 | Provide BMPs for the remediation of all petroleum spills and leaks. |
| C6-11 | Y | 25 | Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.* |
| C6-11 | Y | 26 | Description of the practices that will be used to reduce the pollutants in storm water discharges.* |
| C6-12 | Y | 27 | Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization). |
| C6-10 | Y | 28 | Provide complete requirements of inspections and record keeping by the primary permittee.* |
| C6-11 | Y | 29 | Provide complete requirements of sampling frequency and reporting of sampling results.* |
| C6-11 | Y | 30 | Provide complete details for retention of records as per Part IV.F. of the permit.* |
| C6-11 | Y | 31 | Description of analytical methods to be used to collect and analyze the samples from each location.* |
| C6-12 | Y | 32 | Appendix B rationale for NTU values at all outfall sampling points where applicable.* |
| ALL | Y | 33 | Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.* |
| C6-11 | Y | 34 | A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the bmps into a single phase.* |
| ALL | Y | 35 | Graphic scale and north arrow. |
| ALL | Y | 36 | Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: |

| Map Scale | Ground Slope | Contour Intervals, ft. |
|---|---|---|
| 1 inch = 100ft or larger scale | Flat 0 - 2% | 0.5 or 1 |
| | Rolling 2 - 8% | 1 or 2 |
| | Steep 8% + | 2,5 or 10 |

| Plan Page # | Included Y/N | No. | Item |
|---|---|---|---|
| N/A | N/A | 37 | Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org. |
| N/A | N/A | 38 | Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact. |
| N/A | N/A | 39 | Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site. |
| ALL | Y | 40 | Delineation and acreage of contributing drainage basins on the project site. |
| HYDRO | Y | 41 | Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.* |
| HYDRO | Y | 42 | An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. |
| ALL | Y | 43 | Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points. |
| ALL | Y | 44 | Soil series for the project site and their delineation. |
| ALL | Y | 45 | The limits of disturbance for each phase of construction. |
| ALL | Y | 46 | Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasable, a written justification explaining this decision must be included in the plan. |
| ALL | Y | 47 | Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend. |
| C8-00 | Y | 48 | Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia. |
| C8-00 | Y | 49 | Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia. |

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.

**Effective January 1, 2014**

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WWW.KIMLEY-HORN.COM

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY PERNOSHAL PARK

NPDES NOTES

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

GEORGIA REGISTERED No. PE030006 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE
2-13-15

SCALE (H):
SCALE (V):
DESIGNED BY: RS/RL
DRAWN BY: AL/ZR
CHECKED BY: RS/BS
DATE: 09/19/2014
KHA PROJECT NO.: 019124002
SHEET NUMBER C6-12

Drawing name: K:\ANT_URG\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C6-10_NPDES.dwg C6-12 NPDES NOTES Feb 25, 2015 11:17am by: rafael.lawrence
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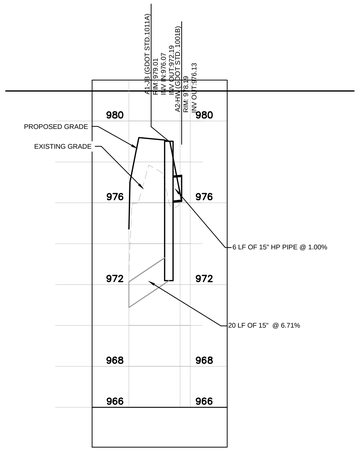
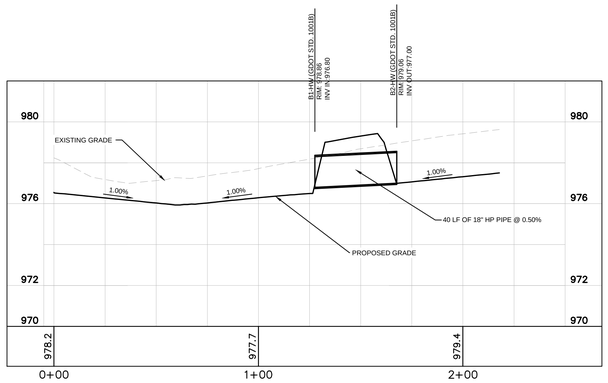
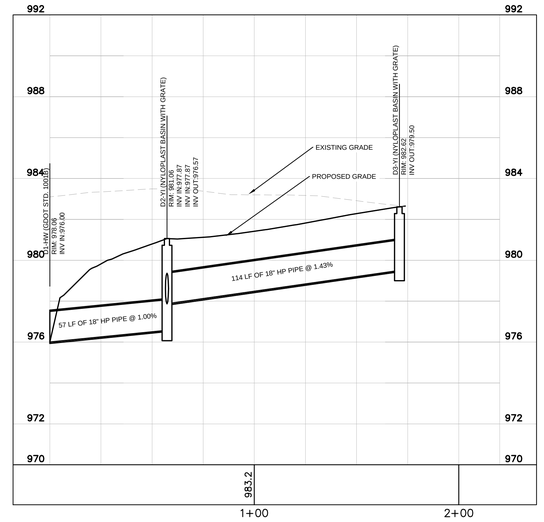


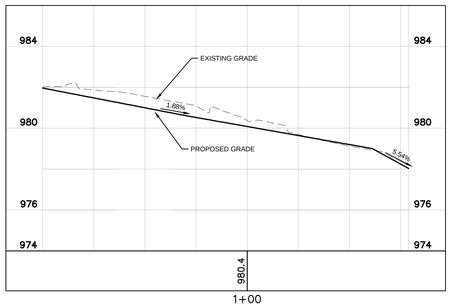

PROPOSED STORM
SEWER PROFILE: A0 -A2



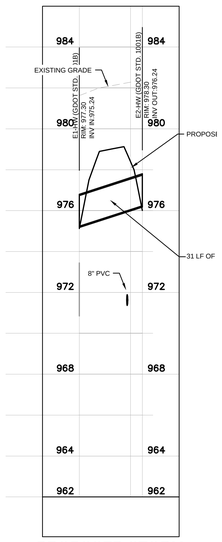

PROPOSED STORM
SEWER AND DITCH
PROFILE: B1-B2



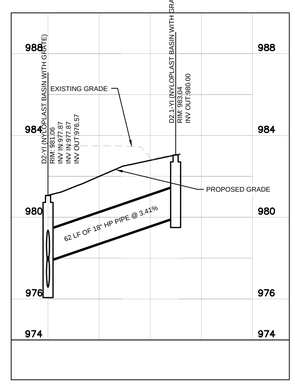

PROPOSED STORM
SEWER PROFILE: D1-D3



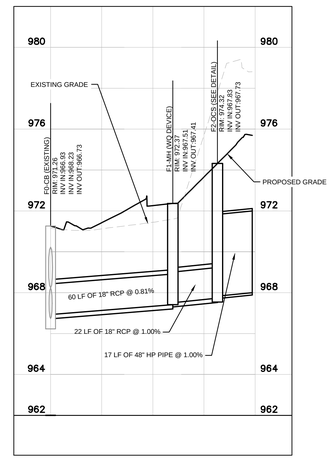

PROPOSED DITCH
PROFILE: GRASSED
DITCH




PROPOSED STORM
SEWER PROFILE: E1-E2




PROPOSED STORM
SEWER PROFILE: D2-D2.1




PROPOSED STORM
SEWER PROFILE: F0 - F2

| Line | Flow Rate (cfs) | Velocity Average (ft/s) | Line Size (in) | Line Length (ft) | Invert Down (ft) | Invert Up (ft) | Line Slope (%) | HGL Down (ft) | HGL Up (ft) | HGL Junction (ft) | Headwater (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D1-D2 | 0.98 | 3.15 | 18 | 57.286 | 976 | 976.57 | 1 | 976.33 | 976.94 | 976.94 | 0.37 |
| D2-D2.1 | 0.2 | 3.26 | 18 | 62.402 | 977.87 | 980 | 3.41 | 977.96 | 980.17 | 980.17 | 0.17 |
| D2-D3 | 0.48 | 3.4 | 18 | 113.696 | 977.87 | 979.5 | 1.43 | 978.04 | 979.76 | 979.76 | 0.26 |
| C1-C2 | 1.03 | 3.25 | 10 | 59.555 | 977.23 | 977.53 | 0.5 | 977.72 | 977.98 j | 977.98 | 0.45 |
| B1-B2 | 2.89 | 3.81 | 18 | 40.018 | 976.8 | 977 | 0.5 | 977.49 | 977.64 j | 977.64 | 0.64 |
| Ex HW-A1 | 7.6 | 6.88 | 15 | 20.021 | 970.85 | 972.19 | 6.69 | 971.87 | 973.28 | 973.28 | 1.09 |
| A1-A2 | 7.6 | 7.75 | 14 | 6.214 | 976.07 | 976.13 | 0.97 | 977.02 | 977.21 | 977.21 | 1.08 |
| E1-E2 | 2.69 | 5.51 | 18 | 30.771 | 975.24 | 976.24 | 3.25 | 975.64 | 976.86 | 976.86 | 0.62 |
| Ex CB-F1 | 7.08 | 5.1 | 18 | 59.79 | 966.93 | 967.41 | 0.8 | 968.12 | 968.44 j | 968.44 | 1.03 |
| F1-F2 | 7.08 | 5.82 | 18 | 21.826 | 967.51 | 967.73 | 1.01 | 968.44 | 968.76 | 968.76 | 1.03 |
| F2-Detention | 7.08 | 3.68 | 48 | 16.979 | 967.83 | 968 | 1 | 968.76 | 968.77 j | 968.77 | 0.77 |
| Ex CB-Ex DI | 0.3 | 3.2 | 24 | 36.448 | 968.23 | 969.78 | 4.25 | 968.34 | 969.97 | 969.97 | 0.19 |
| Detention-F4 | 7.02 | 8.95 | 12 | 31.393 | 968.69 | 969 | 0.99 | 969.68 | 970.68 | 971.92 | 2.92 |
| Detention-F2.1 | 2.49 | 4.4 | 12 | 29.444 | 968.21 | 968.5 | 0.98 | 968.89 | 969.18 j | 969.18 | 0.68 |

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
VERTICAL
4
2
1
0

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| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY PERNOSHAL PARK

PROFILES - STORM

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

GEORGIA REGISTERED No. PE038066 PROFESSIONAL ENGINEER BENJAMIN W. SKUMADE 2-13-15

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C7-00 |

Drawing name: K:\MUT_URS\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C8-00_PROFILES.dwg C7-00_PROFILES - STORM Feb 25, 2015 11:18am by: rafael.lawrence
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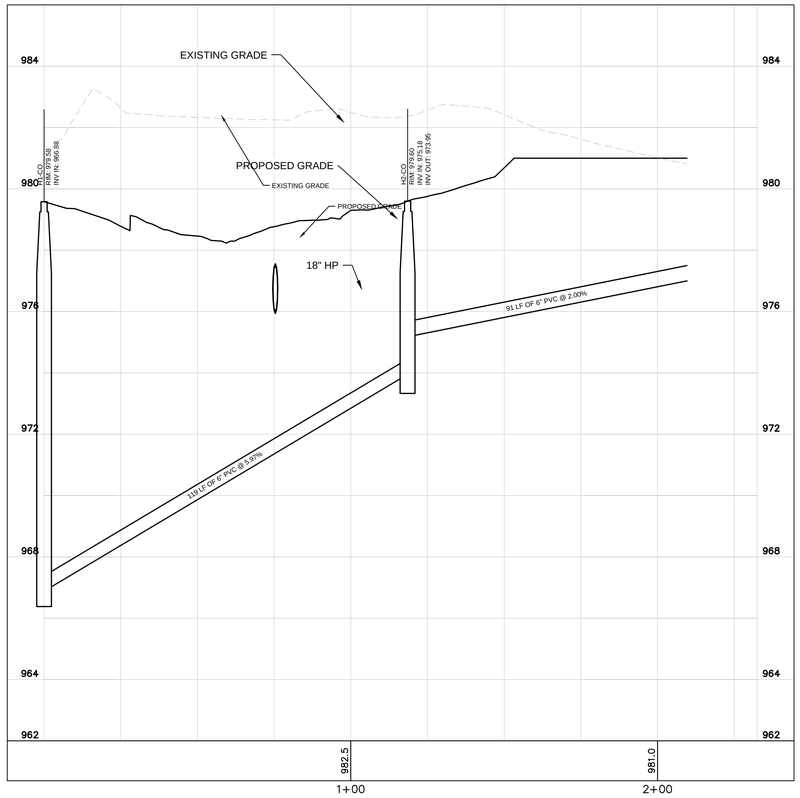
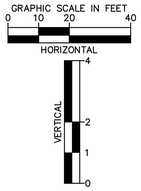



PROPOSED SANITARY SEWER
PROFILE: H1-BUILDING
CONNECTION

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| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY PERNOSHAL PARK

PROFILES - SANITARY

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

GEORGIA REGISTERED No. PE038066 PROFESSIONAL ENGINEER BENJAMIN W. SKIMMORE
2-13-15

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C7-01 |

Drawing name: K:\AMT_LRG\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C8-00_PROFILES.dwg C7-01 PROFILES – SANITARY Feb 25, 2015 11:18am by: rafael.lawrence
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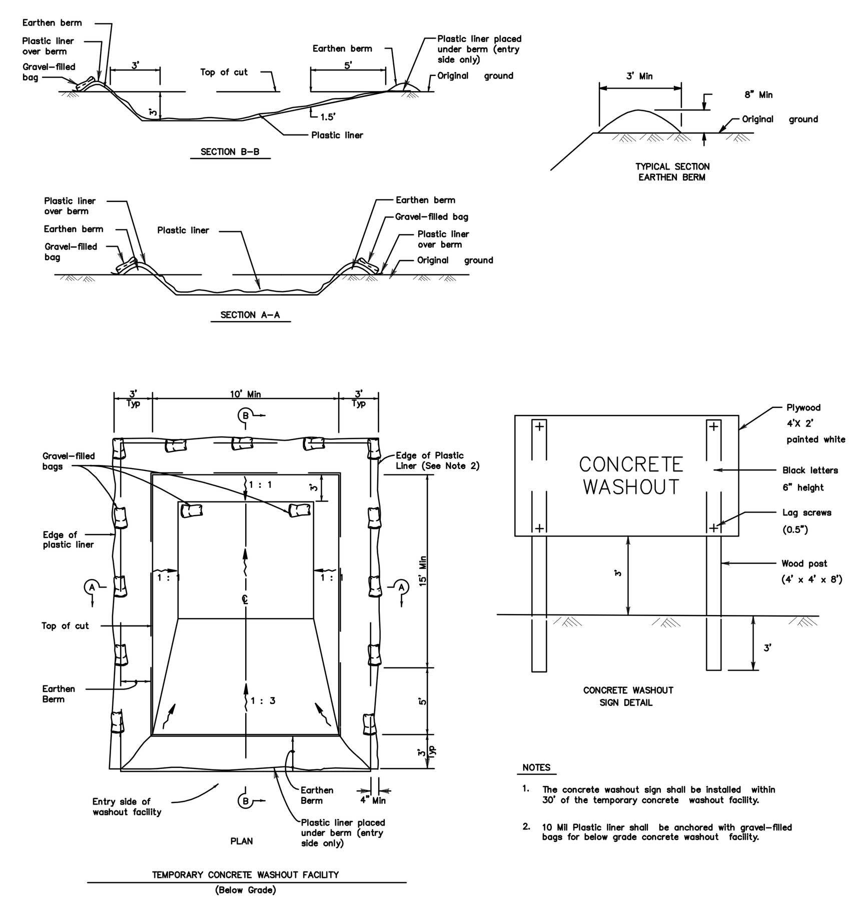
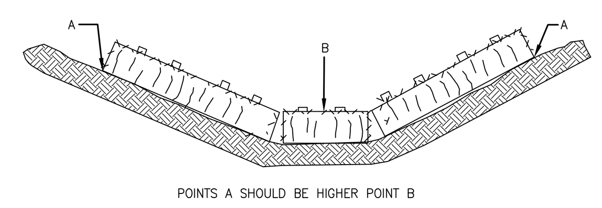
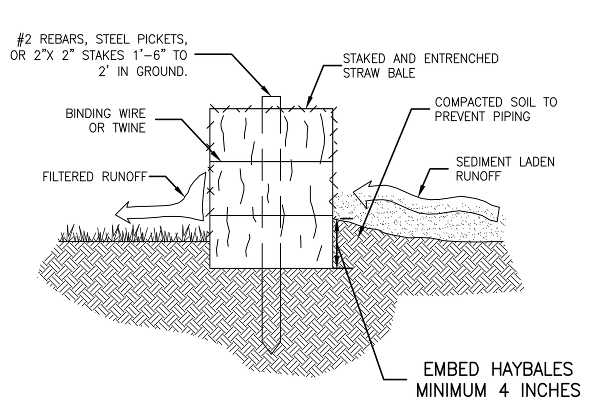



## CONCRETE WASHOUT DETAIL




PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY




PROPERLY INSTALLED STRAW BALE (CROSS SECTION)

## Hb HAYBALE BARRIER

N.T.S.

| TYPE OF SPECIES | YEAR | ANALYSIS OR EQUIVALENT N–P–K | RATE | N TOP DRESSING RATE |
|---|---|---|---|---|
| 1. Cool season grasses | First<br>Second<br>Maintenance | 6–12–12<br>6–12–12<br>10–10–10 | 1500 lbs./ac.<br>1000 lbs./ac.<br>400 lbs./ac. | 50–100 lbs./ac. 1/ 2/<br>–<br>30 |
| 2. Cool season grasses and legumes | First<br>Second<br>Maintenance | 6–12–12<br>0–10–10<br>0–10–10 | 1500 lbs./ac.<br>1000 lbs./ac.<br>400 lbs./ac. | 0–50 lbs./ac. 1/<br>–<br>– |
| 3. Ground covers | First<br>Second<br>Maintenance | 10–10–10<br>10–10–10<br>10–10–10 | 1300 lbs./ac. 3/<br>1300 lbs./ac. 3/<br>1100 lbs./ac. | –<br>–<br>– |
| 4. Shrub Lespedeza | First<br>Maintenance | 0–10–10<br>0–10–10 | 700 lbs./ac.<br>700 lbs./ac. 4/ | – |
| 5. Temporary cover crops seeded alone | First | 10–10–10 | 500 lbs./ac. | 30 lbs./ac. 5/ |
| 6. Warm season grasses | First<br>Second<br>Maintenance | 6–12–12<br>6–12–12<br>10–10–10 | 1500 lbs./ac.<br>800 lbs./ac.<br>400 lbs./ac. | 50–100 lbs./ac. 2/ 6/<br>50–100 lbs./ac. 2/<br>30 lbs./ac. |
| 7. Warm season grasses and legumes | First<br>Second<br>Maintenance | 6–12–12<br>0–10–10<br>0–10–10 | 1500 lbs./ac.<br>1000 lbs./ac.<br>400 lbs./ac. | 50 lbs./ac. 6/ |

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.

MULCHING RATES:
1. DRY STRAW: 2 TONS PER ACRE.
2. DRY HAY: 2–1/2 TONS PER ACRE.
3. FOR HYDRAULIC SEEDING USE WOOD CELLULOSE MULCH OR WOOD PULP FIBER AT THE RATE OF 500 POUNDS PER ACRE.

## FERTILIZER AND MULCHING REQUIREMENTS (Ds1)

| SPECIES | BROADCAST PER ACRE | PER 1000 S.F. | RESOURCE AREA | REMARKS |
|---|---|---|---|---|
| BARLEY | | | M–L 4/<br>P<br>C | 14,000 SEED PER POUND WINTERHARDY. USE ON PRODUCTIVE SOILS. |
| ALONE | 144 LBS. | 3.3 LBS. | | |
| IN MIXTURES | 24 LBS. | 0.6 LBS. | | |
| LESPEDEZA, ANNUAL | | | M–L<br>P<br>C | 200,000 SEED PER POUND MAY VOLUNTEER FOR SEVERAL YEARS USE INOCULANT EL. |
| ALONE | 40 LBS. | 0.9 LBS. | | |
| IN MIXTURES | 10 LBS. | 0.2 LBS. | | |
| LOVEGRASS, WEEPING | | | M–L<br>P<br>C | 1,500,000 SEED PER POUND MAY LAST FOR SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA |
| ALONE | 4 LBS. | 0.1 LBS. | | |
| IN MIXTURES | 2 LBS. | 0.05 LBS. | | |
| MILLET, BROWNTOP | | | M–L<br>P<br>C | 137,000 SEED PER POUND. QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES. |
| ALONE | 40 LBS. | 0.9 LBS. | | |
| IN MIXTURES | 10 LBS. | 0.2 LBS. | | |
| RYE | | | M–L<br>P<br>C | 18,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT AND WINTERHARDY. |
| ALONE | 3 BU | 3.9 LBS. | | |
| IN MIXTURES | 1/2 BU | 0.6 LBS. | | |
| RYEGRASS, ANNUAL | | | M–L<br>P<br>C | 227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES. |
| ALONE | 40 LBS. | 0.9 LBS. | | |

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. FLATWOODS MLRA'S

## DISTURBED AREA STABILIZATION (TEMP) (Ds2)

| SPECIES | BROADCAST PER ACRE | PER 1000 S.F. | RESOURCE AREA | REMARKS |
|---|---|---|---|---|
| BERMUDA, COMMON HULLED SEED | | | P<br>C | 1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS |
| ALONE | 10 LBS. | 0.2 LBS. | | |
| WITH OTHER PERENNIALS | 6 LBS. | 0.1 LBS. | | |
| BERMUDA, COMMON UNHULLED SEED | | | P<br>C | PLANT WITH WINTER ANNUALS PLANT WITH TALL FESCUE |
| W/ TEMP COVER | 10 LBS. | 0.2 LBS. | | |
| WITH OTHER PERENNIALS | 6 LBS. | 0.1 LBS. | | |
| CENTIPEDE | BLOCK SOD ONLY | | P<br>C | DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CONC. AND IN CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES. |
| CROWNVETECH | | | M–L<br>P | 100,000 SEED PER POUND. DENSE GROWTH. DROUGHT TOLERANT AND FIRE RESISTANT. USE FROM NORTH ATLANTA AND NORTHWARD. |
| WITH WINTER ANNUALS OR COOL SEASON GRASSES | 15 LBS. | 0.3 LBS. | | |
| FESCUE, TALL | | | M–L<br>P | 227,000 SEED PER POUND. USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHTY SOILS. NOT FOR HEAVY USE |
| ALONE | 50 LBS | 1.1 LBS. | | |
| W/ OTHER PERENNIALS | 30 LBS | 0.7 LBS. | | |
| LESPEDEZA | | | M–L<br>P<br>C | 300,000 SEED PER POUND. HEIGHT OF GROWTH IS 18 TO 24 INCHES. ADVANTAGES IN URBAN AREAS. MIX W/ WEEPING LOVEGRASS, COMMON BERMUDA BAHIA, TALL FESCUE, OR WINTER ANNUALS. INOCULATE SEED W/ EL INOCULANT. |
| SCARIFIED | 60 LBS. | 1.4 LBS. | | |
| UNSCARIFIED | 75 LBS. | 1.7 LBS. | | |

M–L REPRESENTS TO MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRA'S
P REPRESENTS THE SOUTHERN PIEDMONT MLRA.
C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST. FLATWOODS MLRA'S

NOTE:
AGRICULTURAL LIME SHALL BE APPLIED AS INDICATED BY SOIL TEST OR AT THE RATE OF 1 TO 2 TONS PER ACRE

## DISTURBED AREA STABILIZATION (PERM) Ds3

**Storage Calculations**

1. Required stormwater storage = 0 cy (as determined by local ordinance)
2. Required sediment storage = 122.6 cy (67 cy/ac * 1.83 ac disturbed area)
3. Total required storage = 0 +122.6 = 122.6 cy
4. Available storage = 390 cy
5. Is the available storage (4) greater than the total required storage (3)? X yes ___ no
6. If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:
   N/A Raise the invert of the outlet structure ___ inches
   N/A Undercut the pond ___ feet
   N/A Other ___
7. Clean-out elevation = 976.13 ft (Elevation corresponding to 22 cy/ac * 1.83 ac disturbed area)
8. Is the length-width ratio 2:1 or greater? X yes ___ no
9. If "no", the length of flow must be increased. Choose the method to be used:
   N/A Baffles (Type of baffle: ___ )
   N/A Other ___

**Note the CMP diameter and height** if a half-round CMP retrofit is to be used.
Diameter = 24 inches Height = 2 feet

* EXISTING POND IS CURRENTLY RETROFITTED. PROPOSED PROJECT WILL MAINTAIN EXISTING RETROFIT

## RETRO-FIT (Rt-P)

TEMPORARY METHODS:
MULCHES – REFER TO Ds1 (DISTURBED AREA STABILIZATION)

VEGETATIVE COVER – REFER TO Ds2 (DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING)

TILLAGE – ROUGHEN AND BRING CLODS TO THE SURFACE BY USE OF CHISEL–TYPE PLOWS SPACED ABOUT 12 INCHES APART

IRRIGATION – SITE SPRINKLED WITH WATER UNTIL WET. REPEAT AS NEEDED

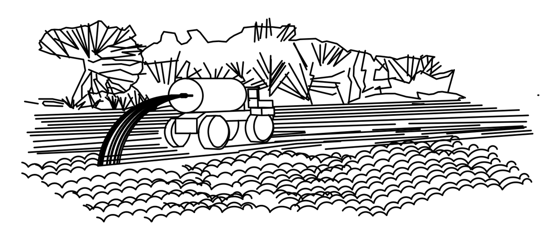
BARRIERS – FENCES, HAY BALES, AND CRATE WALLS PLACED AT INTERVALS 15 TIMES THEIR HEIGHT AND PERPENDICULAR TO AIR CURRENTS

CALCIUM CHLORIDE – APPLY TO KEEP SURFACE WET. REPEAT AS NEEDED.

PERMANENT METHODS:
PERMANENT VEGETATION – REFER TO Ds3 (DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION)

TOPSOILING – COVERING THE SURFACE WITH A LESS EROSIVE SOIL MATERIAL

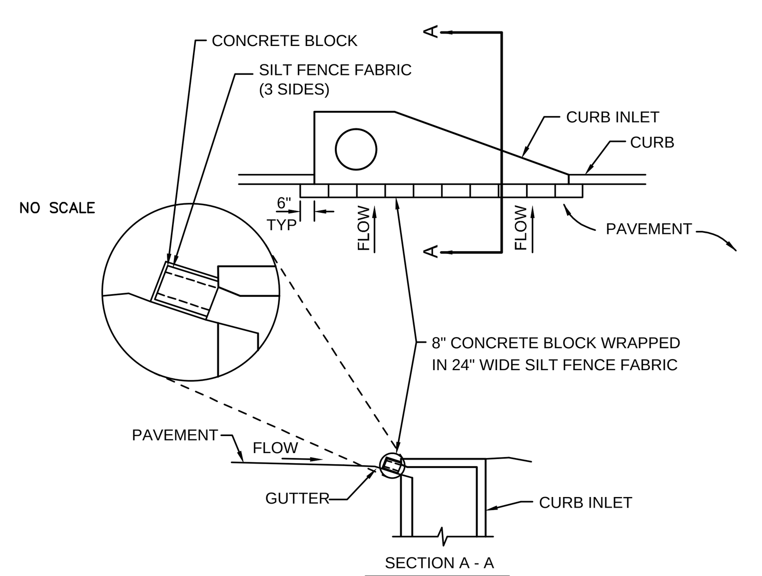
STONE – SURFACE WITH CRUSHED STONE OR COARSE GRAVEL (SEE Cr – CONSTRUCTION ROAD STABILIZATION)



## DUST CONTROL (Du)

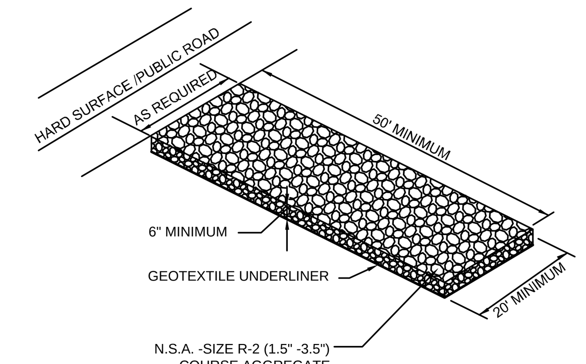
NOT TO SCALE

NO SCALE




## INLET SEDIMENT TRAP (PIGS IN A BLANKET) (Sd2–P)

NO SCALE

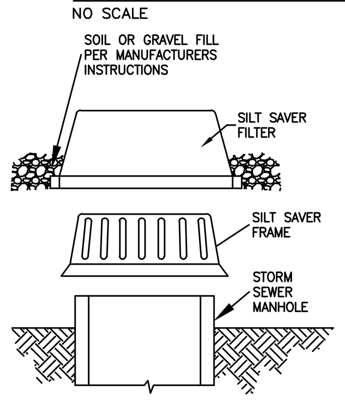



NOTE:
THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

## CONSTRUCTION EXIT (Co)

NO SCALE

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW. THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTERPOCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACKFILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACKFILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.
6. THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP.



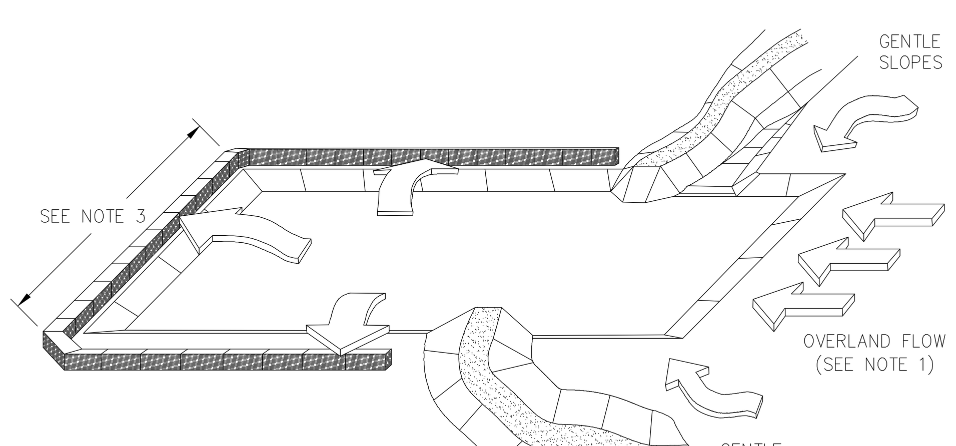

## INLET SEDIMENT TRAP - SILT SAVER (Sd2–SS)

NO SCALE

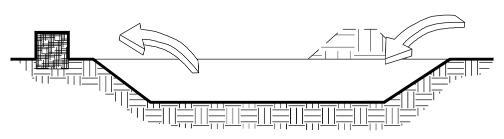
## TEMPORARY SEDIMENT TRAP

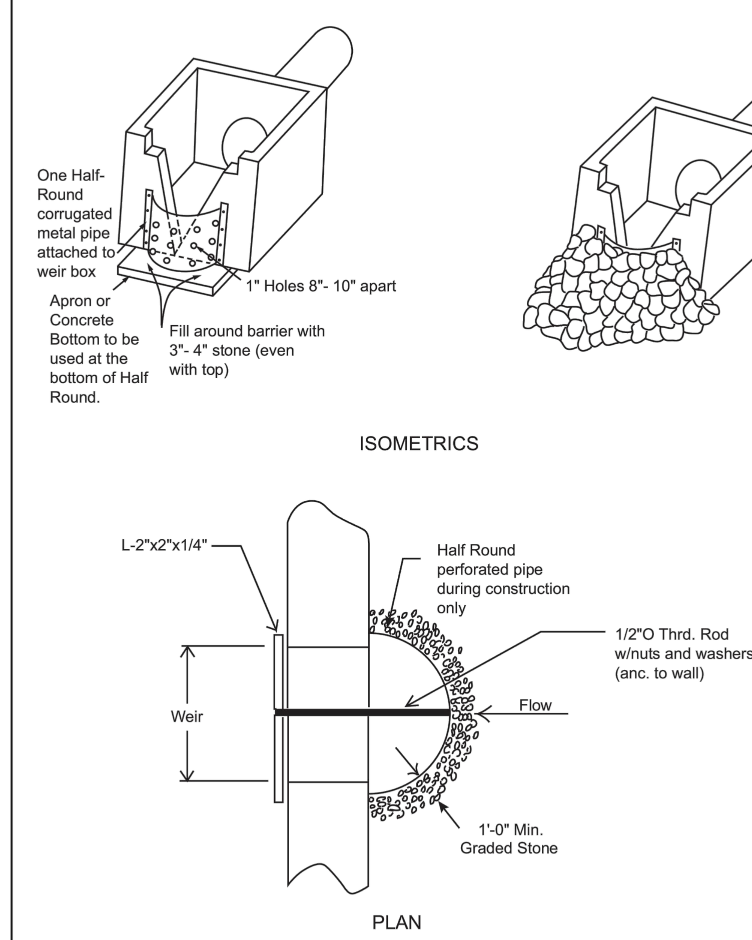
COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT

OVERFLOW




NOTES:
1. MAXIMUM AREA FOR OVERFLOW SEDIMENT TRAP IS USUALLY 1 ACRE. MUST HAVE GENTLE SLOPES (LESS THAN 2% GRADUALLY) AND PREDOMINATELY OVERLAND SHEET FLOW.
2. MAXIMUM PERMANENT WET DEPTH IS 2 FEET. OVERFLOW SEDIMENT TRAPS MAY NOT BE EFFECTIVE FOR HIGH GROUNDWATER TABLE AND INFLOWS.
3. USE THE MOST PERMEABLE SEDIMENT CONTROL IN LABELED AREA SO AS TO MAXIMIZE TRAVEL TIME AND SETTLING OF SEDIMENT.



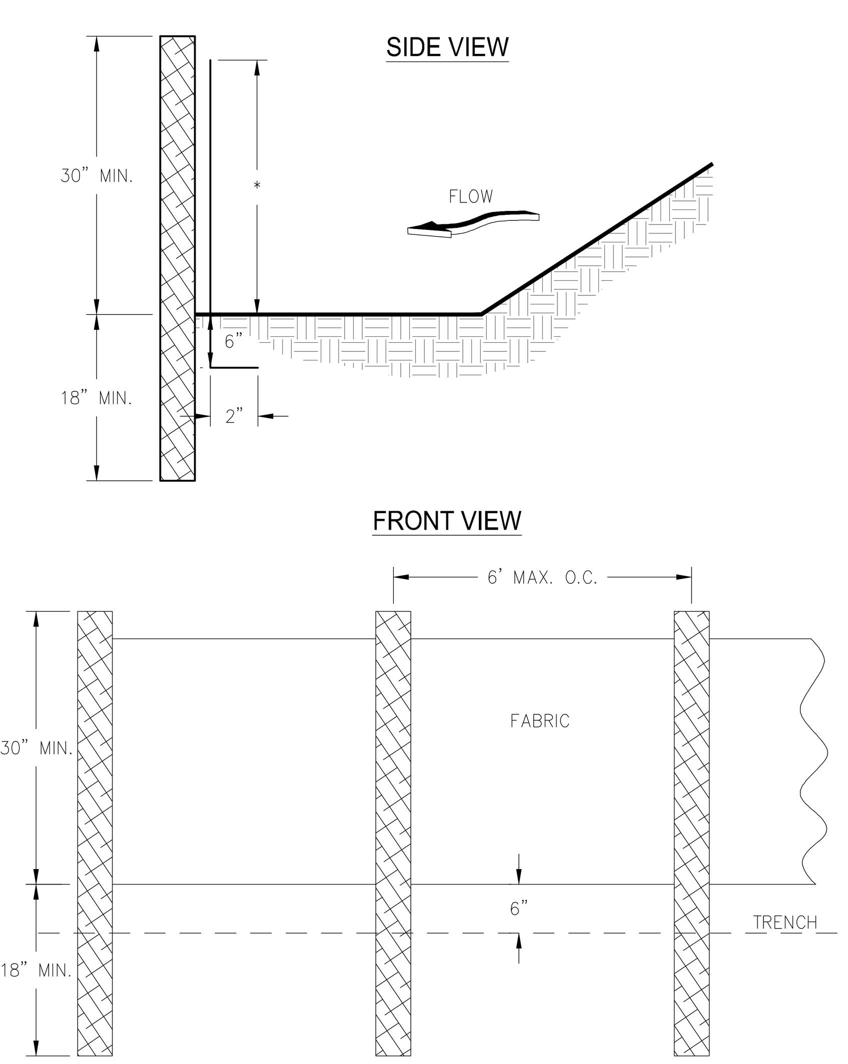



PERFORATED HALF-ROUND PIPE WITH STONE FILTER

**Figure 6-19.1**

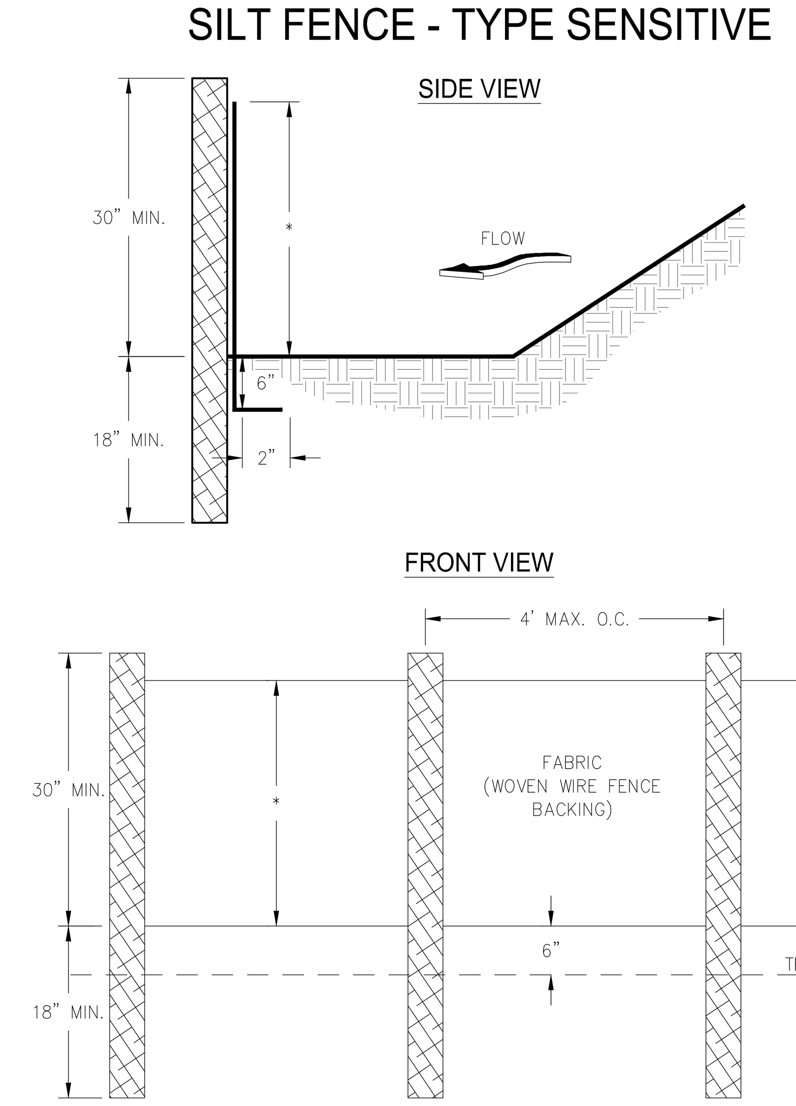
GaSWCC (Amended - 2000) 6-125

## SILT FENCE - TYPE NON-SENSITIVE




NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

## SILT FENCE - TYPE SENSITIVE




NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

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WWW.KIMLEY-HORN.COM

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY PERNOSHAL PARK

EROSION CONTROL DETAILS

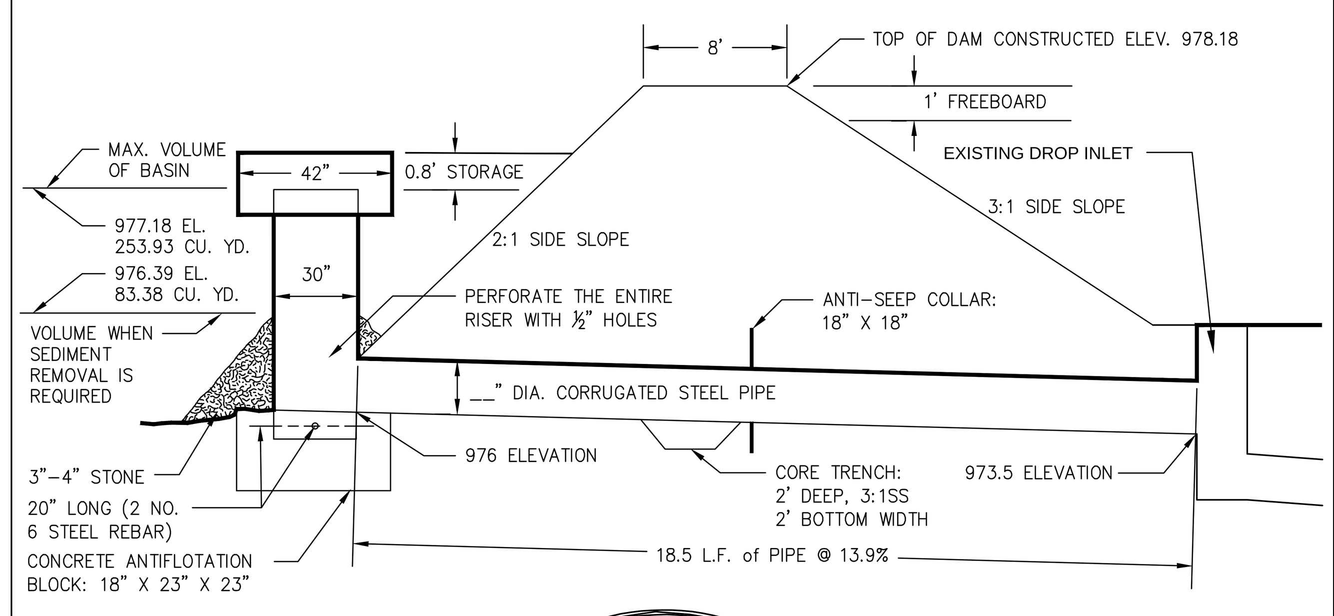
DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE038066 BENJAMIN W. SKIDMORE 2-13-15

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C8-00 |

# TEMPORARY SEDIMENT BASIN

## CROSS-SECTIONAL DETAIL




Sd3

## Temporary Sediment Basin Design Sheet

Project Name: **Pernoshal Park** Computed By: RCL Date: 02/11/2015
Project Number: 019124002 Checked By: BWS Date:
Basin No.: **Sd3-1**
Total Area Draining To Basin = 3.79 acres
Disturbed Area Draining To Basin = 3.79 acres

**Volume:**

1. Compute minimum required storage volume (Vs).
   **Vs** = 67 cy/acre * 3.79 acres = 253.93 cy 6856 cf
2. Compute volume of basin at clean-out (Vc).
   **Vc** = 22 cy/acre * 3.79 acres = 83.38 cy 2251 cf
3. Determine elevation corresponding to minimum required storage volume, Vs.
   **Minimum riser crest elevation** = 977.18 *feet (determined by stage/storage relationship)
4. Determine elevation corresponding to clean-out volume, Vc
   **Clean-out elevation** = 976.39 feet (determined by stage/storage relationship)
   **Note:** *Clean-out elevation shall be clearly marked on the riser or marked by a post near the riser*
5. Compute Length of riser.
   Riser length = Minimum elevation of riser crest - Lowest elevation of pipe at riser
   Riser length = 977.18 feet - 976.00 feet
   **Riser length** = 1.18 feet

**Stormwater Runoff:**

6. Compute peak discharge from a 2-yr, 24-hr storm event. Q=ciA c = 0.30 i = 5.89
   **Q2** = 6.70 cfs
7. Compute peak discharge from a 25-yr, 24-hr storm event. c = 0.30 i = 8.39
   **Q25** = 9.54 cfs

**Surface Area/Configuration Design:**

8. Compute minimum basin surface area (Sa,min)
   Sa,min = 0.01 ac/cfs * Q2 cfs
   Sa,min = 0.01 ac/cfs * 6.70 cfs
   **Sa,min =** 0.07 ac * 43560 sf/ac = 2917.18 sf
9. Check available area at elevation of riser crest.
   **Available Area** = 6220.00 sf (determined by stage/storage relationship)
   Available Area ≥ Sa,min? Yes/No: **Yes**
10. Compute required length at elevation of riser crest.
   **Average Width** = 55.00 ft
   Required length = 2 * average width
   Required length = 2 * 55.00 ft = 110.00 ft
   **Required length** = 110.00
   **Available Length** = 112.00 ft
   2:1 L:W ratio satisfied? **Yes**
   If "no," refer to Figure 6-22.2 for baffle designs.
   Note any required baffles on E&SC plan and include calculations and details for baffle(s).

**Principal Spillway (ps)**

11. Determine maximum principal spillway capacity.
   **Qmax** = **Q2** = 6.70 cfs
12. Compute the vertical distance between the centerline of the outlet pipe and the emergency spillway crest (H).
   **H** = 3.68 ft
13. Compute the total pipe length of the principal spillway, L, using Figure 6-22.3.
   L = [A-(B+C)/2][Zu+Zd]+T+E
   A = 978.00 ft Top Of Dam Elevation
   B = 976.00 ft Lowest Elevation of Pipe At Riser
   C = 973.50 ft Lowest Elevation of Pipe At Outlet
   E = 0.00 ft Extended length of pipe beyond toe of dam
   T = 8.00 ft Top Width of Dam
   Zu = 2.00 :1 Upstream Side Slope
   Zd = 0.00 :1 Downstream Side Slope
   **L** = 18.55 ft
14. Determine diameter of principal spillway (Dps) and flow through the principle spillway (Q) from Table 6-22.1 using H and Qmax.
   **Dps** = 18.00 in **Q** = 9.48 cfs (value directly from table)
15. Compute actual flow through the principal spillway, using Table 6-22.1 to determine the correction factor for pipe length, L.
   Qps = Q * correction factor
   Factor = 1.58
   **Qps** = 14.98
16. Compute riser diameter (Dr).
   Dr = 1.5 * Dps
   Dr >= 1.50 * 18.00 in = 27.00
   **Dr** = 30.00 in
17. Compute trash rack diameter (Dt).
   Dt = 1.4 * Dr
   Dt = 1.40 * 30.00 in = 42.00
   **Dt** = 42.00 in
18. Determine the minimum distance between the riser crest and the emergency spillway crest, **h**, using Table 6-22.2, Dr, and Qps.
   **h** = 0.80 feet

**Concrete Riser Base Design**

19. Determine the volume of concrete per vertical foot of riser height needed, from Table 6-22.3 to prevent flotation.
   **Required volume of concrete per vertical foot:** = 4.29 cf/v.f.
20. Compute total volume of concrete required.
   Total volume of concrete required = Required volume per vertical foot * Riser length
   Total volume of concrete required = 4.29 cf/v.f. * 1.18 ft
   **Total volume of concrete required** = 5.08 cf
21. Assume base thickness, B (usually 18")
   **B** = 18.00 in = 1.50 ft
22. Compute required surface area.
   Required surface area = Total volume required/B
   Required surface area = 5.08 cf / 1.50 ft
   **Required surface area** = 3.39 sf
23. Compute riser base length (l) and width (w) (assume square base).
   l = w = (required surface area)^1/2
   l = w = 1.84 ft = 22.09 in
   **l = w** = 23.00 in

**Anti-Seep Collar Design**

24. Determine if anti-seep collar is required. If yes to any of the following conditions, a collar is required:
   N The settled height of the dam is greater than 15 feet.
   N The principal spillway diameter (Dps) is smooth pipe larger than 8".
   Y The principal spillway diameter (Dps) is corrugated metal pipe larger than 12".
25. Determine size of anti-seep collar required.
   Y **18-inch projection** (for heads (H) less than or equal to 10 feet).
   N **24-inch projection** (for heads (H) greater than 10 feet).

**Emergency Spillway (es)**

26. Compute minimum capacity of emergency spillway (Qes).
   Qes = Q25 - Qps
   **Qes** = -5.44 cfs
27. Determine stage (Hp), bottom width (b), velocity (V), and minimum exit slope (S) using Table 6-22.4 and Qes.
   **Hp** = 0.50 ft
   **b** = 8.00 ft
   **V** = 2.70 fps
   **S** = 3.90 %
28. Actual entrance channel slope,
   **Se** = 50.00 %
29. Actual exit channel slope,
   **So** = 10.50 %
   Is So Steeper than S (from Table 6-22.4)? Yes
   If Yes, calculate new exit velocity (Vo)
   Vo = V * (So/S)^0.3 fps
   $V_o$ = 2.70 fps * 10.50 % / 3.90 %
   $V_o$ = 3.63 fps
   **Note:** Refer to Channel Stabilization (Ch) to determine the proper lining for the emergency spillway.
   N **Grass** (< 5 fps) N **Rip-Rap** (5-10 fps) N **Concrete** (>10 fps)

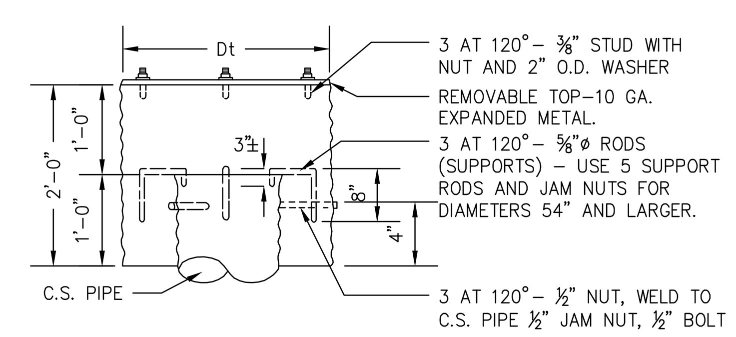
**Design Elevations**

30. **Riser Crest Elevation =** 977.18 ft
31. Compute minimum emergency spillway crest elevation.
   Minimum emergency spillway crest elevation = Riser crest elevation + h
   Minimum emergency spillway crest elevation = 977.18 ft + 0.00 ft
   **Minimum emergency spillway crest elevation** = 977.18 ft 977.18
32. Determine design high water elevation.
   Design high water elevation = Minimum emergency spillway crest elevation + Stage elevation (Hp)
   **Design high water elevation =** 977.18 ft
33. Determine elevation of top of dam
   Elevation of top of dam = Design high water elevation + 1 ft (at least) freeboard
   Elevation of top of dam = 977.18 ft + 1.00 ft
   **Elevation of top of dam** = 978.18

*****PLEASE NOTE THAT DESIGN VALUES DETERMINED BY THIS SHEET REPRESENT THE MINIMUM REQUIREMENTS FOR A TEMPORARY SEDIMENT BASIN.**

# TEMPORARY SEDIMENT POND

## TYPICAL TRASH RACK

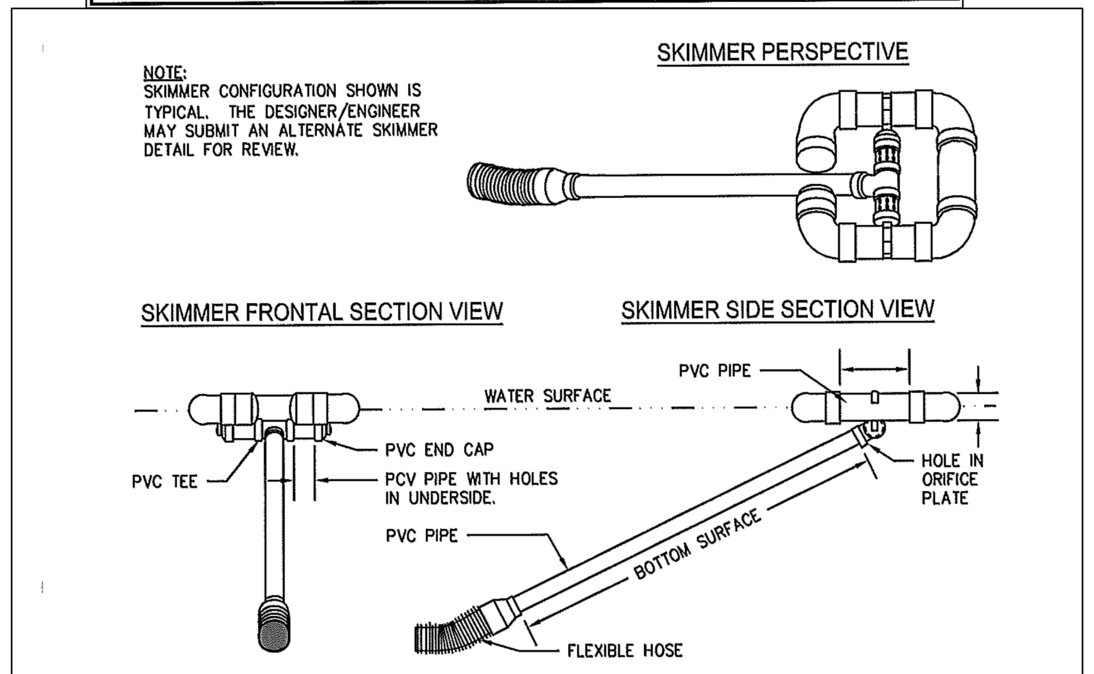



**TO BE SHOWN ON THE EROSION, SEDIMENT AND POLLUTION CONTROL PLAN**

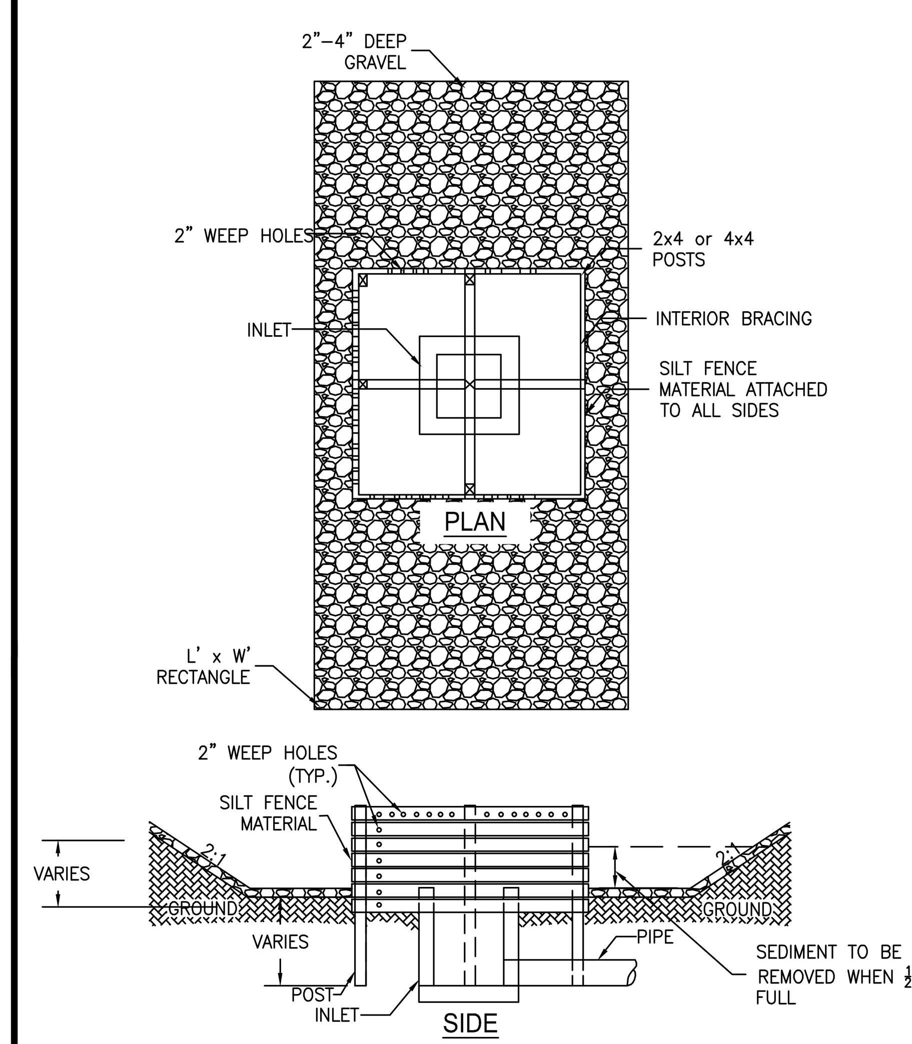
When a FLOATING SURFACE SKIMMER is used, show the following information along with each sediment pond, trap or basin being used on the site:

1. Pond, trap or basin size, length* (top and bottom) width* (top and bottom) and depth = 12,217 CF; TOP LENGTH = 116'; BOTTOM LENGTH = 108'; TOP WIDTH = 61'; BOTTOM WIDTH = 51'; DEPTH = 4'
2. Time to Drain (hrs) = 72
3. Skimmer Dimensions (orifice and head size)** ORIFICE = 2.5"; HEAD = 2.5"
4. Manufacturer's name EROSION SUPPLY COMPANY

*feet, ** inches




Sk SURFACE SKIMMER
N.T.S.
Figure 6-31.4




Sd2-EX EXCAVATED INLET SEDIMENT TRAP
N.T.S.
**** SEE SD2 CALCULATION TABLE FOR DETAILED DIMENSIONS FOR EACH EXCAVATED INLET. ****

Ex Sd2-1

**TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN**
If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information
1. **Drainage area=** 0.82 ac
2. Required sediment storage=134 cy/ac * drainage area
   Required sediment storage= # cy/ac * 0.8222 ac
   **Required sediment storage=** 55.086 cy = 1487.3 cf
3. Assume excavation **depth** (minimum of 1.5 ft.)= 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1)= 2 : 1
5. Determine required surface area
   SAmin= Required sediment storage/excavation depth
   $SA_{min}$= 1487.3 cf / 2 ft
   **$SA_{min}$=** 743.66 sf
6. Assume shape of excavation and determine dimensions
   **Shape:** Rectangle
   **Dimensions:** L = 32 W = 16
   Diameter (if applicable) = ______

**Provided Volume = 1493.33 **

Provide a detail showing the depth, length and width, or diameter (if applicable), and side slopes of the excavation

Ex Sd2-2

**TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN**
If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information
1. **Drainage area=** 0.81 ac
2. Required sediment storage=134 cy/ac * drainage area
   Required sediment storage= # cy/ac * 0.8079 ac
   **Required sediment storage=** 54.132 cy = 1461.6 cf
3. Assume excavation **depth** (minimum of 1.5 ft.)= 3 ft
4. Assume **slope of sides** (shall not be steeper than 2:1)= 2 : 1
5. Determine required surface area
   SAmin= Required sediment storage/excavation depth
   $SA_{min}$= 1461.6 cf / 3 ft
   **$SA_{min}$=** 487.19 sf
6. Assume shape of excavation and determine dimensions
   **Shape:** Rectangle
   **Dimensions:** L = 22 W = 11
   Diameter (if applicable) = ______

**Provided Volume = 1608.00 **

Provide a detail showing the depth, length and width, or diameter (if applicable), and side slopes of the excavation

Ex Sd2-3

**TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN**
If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information
1. **Drainage area=** 0.37 ac
2. Required sediment storage=134 cy/ac * drainage area
   Required sediment storage= # cy/ac * 0.3708 ac
   **Required sediment storage=** 24.84 cy = 670.69 cf
3. Assume excavation **depth** (minimum of 1.5 ft.)= 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1)= 2 : 1
5. Determine required surface area
   SAmin= Required sediment storage/excavation depth
   $SA_{min}$= 670.69 cf / 2 ft
   **$SA_{min}$=** 335.35 sf
6. Assume shape of excavation and determine dimensions
   **Shape:** Rectangle
   **Dimensions:** L = 20 W = 10
   Diameter (if applicable) = ______

**Provided Volume = 725.33 **

Provide a detail showing the depth, length and width, or diameter (if applicable), and side slopes of the excavation

Ex Sd2-4

**TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN**
If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information
1. **Drainage area=** 0.96 ac
2. Required sediment storage=134 cy/ac * drainage area
   Required sediment storage= # cy/ac * 0.9592 ac
   **Required sediment storage=** 64.264 cy = 1735.1 cf
3. Assume excavation **depth** (minimum of 1.5 ft.)= 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1)= 2 : 1
5. Determine required surface area
   SAmin= Required sediment storage/excavation depth
   $SA_{min}$= 1735.1 cf / 2 ft
   **$SA_{min}$=** 867.57 sf
6. Assume shape of excavation and determine dimensions
   **Shape:** Rectangle
   **Dimensions:** L = 130 W = 25
   Diameter (if applicable) = ______

**Provided Volume = 7825.33 **

Provide a detail showing the depth, length and width, or diameter (if applicable), and side slopes of the excavation

Ex Sd2-5

**TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN**
If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information
1. **Drainage area=** 0.41 ac
2. Required sediment storage=134 cy/ac * drainage area
   Required sediment storage= # cy/ac * 0.4091 ac
   **Required sediment storage=** 27.413 cy = 740.14 cf
3. Assume excavation **depth** (minimum of 1.5 ft.)= 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1)= 2 : 1
5. Determine required surface area
   SAmin= Required sediment storage/excavation depth
   $SA_{min}$= 740.14 cf / 2 ft
   **$SA_{min}$=** 370.07 sf
6. Assume shape of excavation and determine dimensions
   **Shape:** Rectangle
   **Dimensions:** L = 63 W = 6
   Diameter (if applicable) = ______

**Provided Volume = 1393.33 **

Provide a detail showing the depth, length and width, or diameter (if applicable), and side slopes of the excavation

Ex Sd2-6

**TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN**
If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information
1. **Drainage area=** 0.43 ac
2. Required sediment storage=134 cy/ac * drainage area
   Required sediment storage= # cy/ac * 0.4303 ac
   **Required sediment storage=** 28.832 cy = 778.47 cf
3. Assume excavation **depth** (minimum of 1.5 ft.)= 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1)= 2 : 1
5. Determine required surface area
   SAmin= Required sediment storage/excavation depth
   $SA_{min}$= 778.47 cf / 2 ft
   **$SA_{min}$=** 389.23 sf
6. Assume shape of excavation and determine dimensions
   **Shape:** Rectangle
   **Dimensions:** L = 22 W = 11
   Diameter (if applicable) = ______

**Provided Volume = 833.33 **

Provide a detail showing the depth, length and width, or diameter (if applicable), and side slopes of the excavation

Ex Sd2-7

**TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN**
If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information
1. **Drainage area=** 0.10 ac
2. Required sediment storage=134 cy/ac * drainage area
   Required sediment storage= # cy/ac * 0.0978 ac
   **Required sediment storage=** 6.5517 cy = 176.9 cf
3. Assume excavation **depth** (minimum of 1.5 ft.)= 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1)= 2 : 1
5. Determine required surface area
   SAmin= Required sediment storage/excavation depth
   $SA_{min}$= 176.9 cf / 2 ft
   **$SA_{min}$=** 88.448 sf
6. Assume shape of excavation and determine dimensions
   **Shape:** Rectangle
   **Dimensions:** L = 8 W = 4
   Diameter (if applicable) = ______

**Provided Volume = 245.33 **

Provide a detail showing the depth, length and width, or diameter (if applicable), and side slopes of the excavation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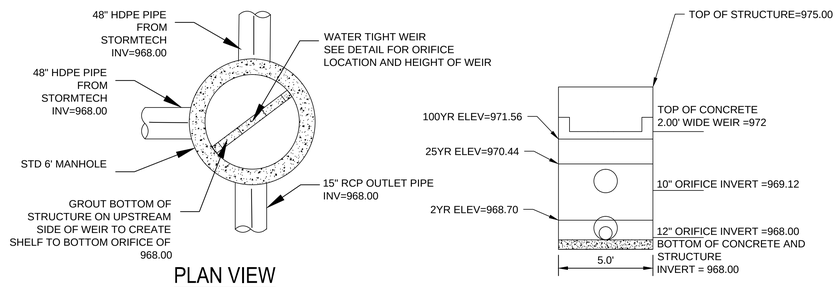
No. REVISIONS DATE BY

DUNWOODY PERNOSHAL PARK

EROSION CONTROL DETAILS

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

SCALE (H):
SCALE (V):
DESIGNED BY: RS/RL
DRAWN BY: AL/ZR
CHECKED BY: RS/BS
DATE: 09/19/2014
KHA PROJECT NO.: 019124002
SHEET NUMBER C8-01

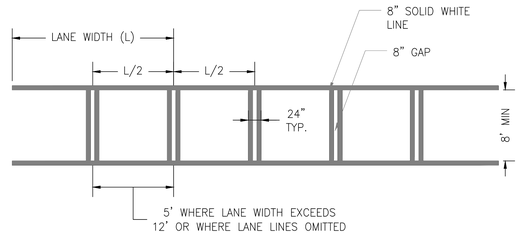



PLAN VIEW

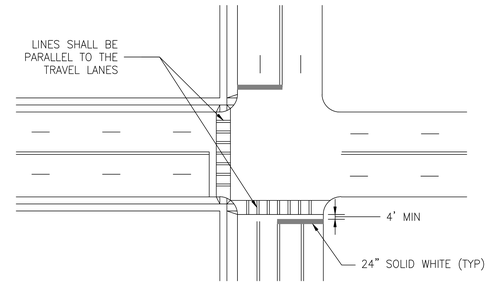
CONCRETE WEIR PLATE PROFILE

OUTLET CONTROL STRUCTURE DETAIL FOR UNDERGROUND PIPE DETENTION

CROSSWALK DETAIL




CROSSWALK LOCATION DETAIL



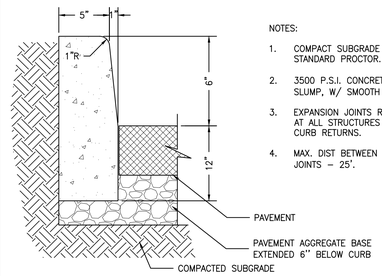

NOTES:

1. SEE CROSSWALK DETAIL FOR DESIGN OF CROSSWALK.
2. WHEEL CHAIR RAMPS ARE REQUIRED IN CURB AND CURB & GUTTER SECTIONS.
3. CROSSWALK SHALL BE A MINIMUM OF 8' WIDE OR WIDTH OF SIDEWALK, WHICHEVER IS GREATER.

N.T.S.

CROSSWALK

N.T.S.

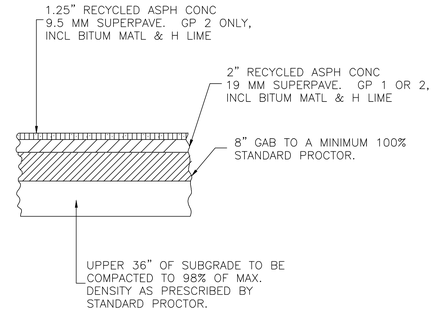



NOTES:

1. COMPACT SUBGRADE TO 98% STANDARD PROCTOR.
2. 3500 P.S.I. CONCRETE 2" SLUMP, W/ SMOOTH FINISH.
3. EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND CURB RETURNS.
4. MAX. DIST BETWEEN CONTROL JOINTS – 25'.

HEADER CURB

N.T.S.

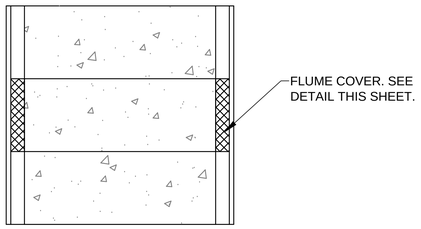



ASPHALT PAVEMENT SECTION

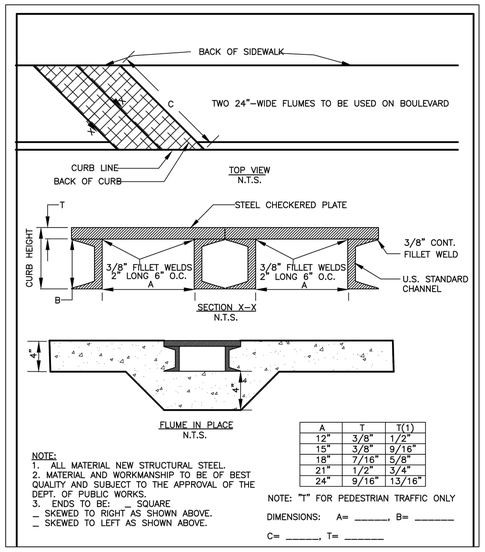
N.T.S.

RAISED CROSSWALK DETAIL

SEE HARDSCAPE DETAILS FOR FINISH




PLAN VIEW



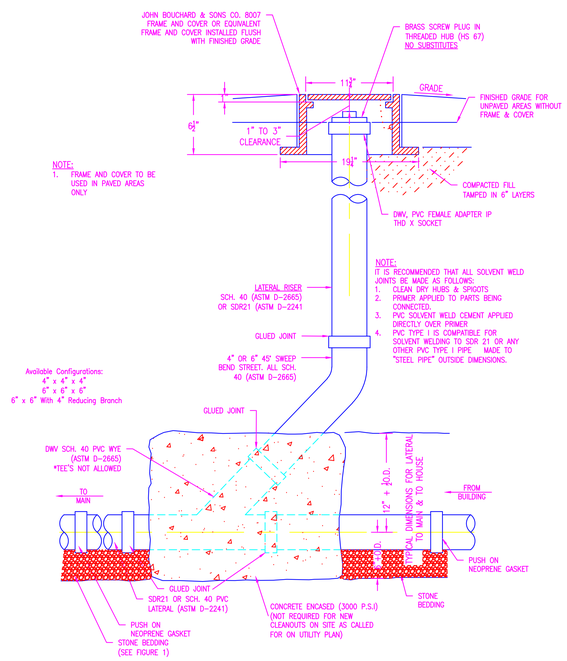

| A | T | T(1) |
|---|---|---|
| 12" | 3/8" | 1/2" |
| 15" | 3/8" | 9/16" |
| 18" | 7/16" | 5/8" |
| 21" | 1/2" | 3/4" |
| 24" | 9/16" | 13/16" |

NOTE:
1. ALL MATERIAL NEW STRUCTURAL STEEL.
2. MATERIAL AND WORKMANSHIP TO BE OF BEST QUALITY AND SUBJECT TO THE APPROVAL OF THE DEPT. OF PUBLIC WORKS.
3. ENDS TO BE: __ SQUARE
__ SKEWED TO RIGHT AS SHOWN ABOVE.
__ SKEWED TO LEFT AS SHOWN ABOVE.

NOTE: "T" FOR PEDESTRIAN TRAFFIC ONLY

DIMENSIONS: A= _____, B= _____

C= _____, T= _____




4' OR 6" PVC CLEANOUT AND LATERAL CONNECTION
NOT TO SCALE

Kimley»Horn

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| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY PERNOSHAL PARK

DETAILS

DUNWOODY PARKS AND RECREATION

41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

GEORGIA REGISTERED No. PE038066 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE
2-13-15

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C8-02 |

Drawing name: K:\MAT_URG\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C9-02_DETAILS.dwg C8-01 DETAILS Feb 25, 2015 11:19am by: rafael.lawrence
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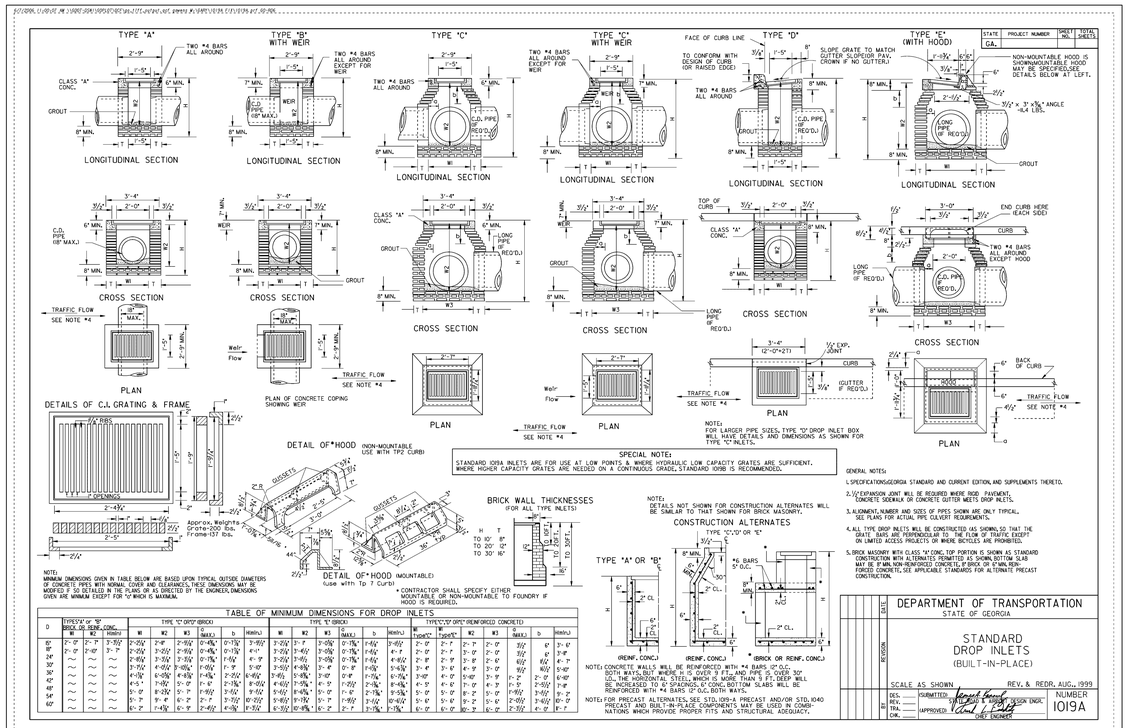


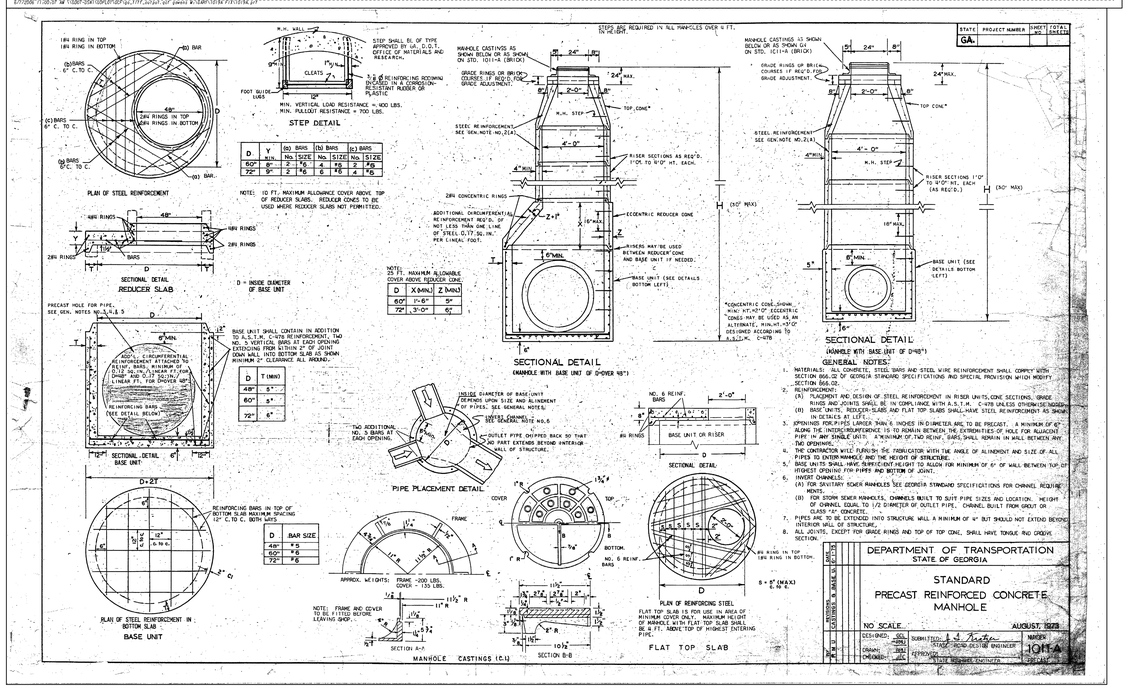


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| No. | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

DUNWOODY PERNOSHAL PARK

DETAILS

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

GEORGIA REGISTERED No. PE038068 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE 2-13-15

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C8-03 |

Drawing name: K:\AMT_LRK\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C9-02_DETAILS.dwg C8-02 DETAILS Feb 25, 2015 11:19am by: rafael.lawrence
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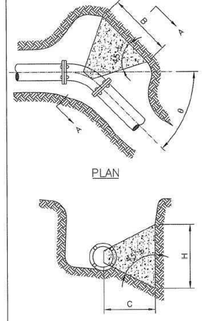



| FITTING θ | (IN) | B (FT) | H (FT) | C (FT) | VOL. ($YD^3$) |
|---|---|---|---|---|---|
| 11–1/4 | 6 | 0.9 | 0.8 | 0.45 | 0.010 |
| | 8 | 1.2 | 1.1 | 0.60 | 0.022 |
| | 10 | 1.5 | 1.3 | 0.75 | 0.041 |
| | 12 | 1.8 | 1.6 | 0.90 | 0.071 |
| | 16 | 2.3 | 2.2 | 1.15 | 0.149 |
| 22–1/2 | 6 | 1.3 | 1.1 | 0.65 | 0.023 |
| | 8 | 1.6 | 1.6 | 0.80 | 0.048 |
| | 10 | 2.1 | 1.9 | 1.05 | 0.097 |
| | 12 | 2.5 | 2.3 | 1.25 | 0.165 |
| | 16 | 3.3 | 3.0 | 1.65 | 0.362 |
| 45 | 6 | 1.7 | 1.6 | 0.85 | 0.050 |
| | 8 | 2.2 | 2.2 | 1.10 | 0.113 |
| | 10 | 2.8 | 2.7 | 1.40 | 0.222 |
| | 12 | 3.3 | 3.3 | 1.65 | 0.375 |
| | 16 | 4.5 | 4.3 | 2.25 | 0.887 |
| 90 | 6 | 2.3 | 2.2 | 1.15 | 0.118 |
| | 8 | 3.1 | 2.9 | 1.55 | 0.278 |
| | 10 | 3.8 | 3.7 | 1.90 | 0.530 |
| | 12 | 4.6 | 4.4 | 2.30 | 0.921 |
| | 16 | 6.1 | 5.9 | 3.05 | 2.142 |
| TEES | 6 | 2.1 | 1.8 | 1.00 | 0.073 |
| | 8 | 2.6 | 2.5 | 1.30 | 0.170 |
| | 10 | 3.2 | 3.1 | 1.60 | 0.319 |
| | 12 | 3.9 | 3.7 | 1.95 | 0.565 |
| | 16 | 5.1 | 5.0 | 2.55 | 1.303 |

NOTES:

1. DIMENSIONS OF THRUST BLOCKS WERE CALCULATED ASSUMING A STATIC PRESSURE OF 250 PSI AND A SOIL BEARING PRESSURE OF 2,000 PSF.
2. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.

DEKALB COUNTY, GA
Department of Watershed Management

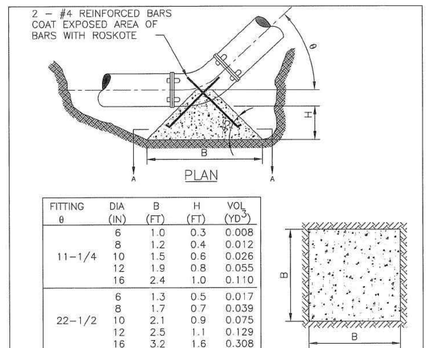
STANDARD DETAILS

**Blocking Detail**
**Horizontal Thrust**

NOT TO SCALE

11/07

DETAIL NO. W-009




| FITTING θ | DIA (IN) | B (FT) | H (FT) | VOL. ($YD^3$) |
|---|---|---|---|---|
| 11–1/4 | 6 | 1.0 | 0.3 | 0.008 |
| | 8 | 1.2 | 0.4 | 0.012 |
| | 10 | 1.5 | 0.6 | 0.026 |
| | 12 | 1.9 | 0.8 | 0.055 |
| | 16 | 2.4 | 1.0 | 0.110 |
| 22–1/2 | 6 | 1.3 | 0.5 | 0.017 |
| | 8 | 1.7 | 0.7 | 0.039 |
| | 10 | 2.1 | 0.9 | 0.075 |
| | 12 | 2.5 | 1.1 | 0.129 |
| | 16 | 3.2 | 1.6 | 0.308 |
| 45 | 6 | 1.7 | 0.7 | 0.039 |
| | 8 | 2.2 | 0.9 | 0.083 |
| | 10 | 2.7 | 1.2 | 0.164 |
| | 12 | 3.3 | 1.5 | 0.305 |
| | 16 | 4.3 | 2.0 | 0.688 |

NOTE:

1. DIMENSIONS OF THRUST BLOCKS WERE CALCULATED ASSUMING A STATIC PRESSURE OF 250 PSI, A DEPTH OF COVER OF 4 FT., AND A SOIL BEARING PRESSURE OF 2,000 PSF.
2. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.

DEKALB COUNTY, GA
Department of Watershed Management

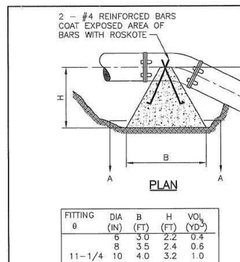
STANDARD DETAILS

**Blocking Detail**
**Downward Thrust**

NOT TO SCALE

11/07

DETAIL NO. W-010




| FITTING θ | DIA (IN) | B (FT) | H (FT) | VOL. ($YD^3$) |
|---|---|---|---|---|
| 11–1/4 | 6 | 3.0 | 2.2 | 0.4 |
| | 8 | 3.5 | 2.4 | 0.6 |
| | 10 | 4.0 | 3.2 | 1.0 |
| | 12 | 4.5 | 3.5 | 1.4 |
| | 16 | 5.0 | 4.8 | 2.4 |
| 22–1/2 | 6 | 3.5 | 2.9 | 0.7 |
| | 8 | 4.0 | 3.9 | 1.2 |
| | 10 | 4.5 | 4.6 | 1.9 |
| | 12 | 5.5 | 4.8 | 2.7 |
| | 16 | 6.5 | 5.9 | 4.8 |
| 45 | 6 | 4.5 | 3.4 | 1.3 |
| | 8 | 5.0 | 4.6 | 2.2 |
| | 10 | 6.0 | 5.1 | 3.5 |
| | 12 | 6.5 | 6.2 | 5.0 |
| | 16 | 8.0 | 7.3 | 8.8 |

NOTES:

1. VOLUME WAS CALCULATED NEGLECTING WEIGHT OF FITTING, WATER, AND BACKFILL USING A STATIC PRESSURE OF 250 PSI.
2. DIMENSIONS OF BLOCK WERE CALCULATED ASSUMING A SOIL BEARING PRESSURE OF 2,000 POUNDS PER SQUARE FOOT.
3. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.

DEKALB COUNTY, GA.
Department of Watershed Management

STANDARD DETAILS

**Blocking Detail**
**Upward Thrust**

NOT TO SCALE

11/07

DETAIL NO. W-011

MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS
SERVICE SIZE= 3/4" THROUGH 2" METER SIZE= THROUGH 2"
REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ BFP) ASSEMBLY

SPECIFICATIONS: THE CUSTOMER/OWNER SHALL FURNISH AND INSTALL A REDUCED-PRESSURE ZONE BACKFLOW PREVENTER (RPZ BFP) IN A SIZE TO MATCH THAT OF THE REQUIRED SERVICE LINE. THE RPZ BFP ASSEMBLY SHALL INCLUDE TWO (2) BALL VALVE ON THE INLET AND OUTLET SIDES WITH A UNION BETWEEN THE DEVICE AND EACH VALVE. THE DEVICE SHALL HAVE THREE BALL VALVE TEST COCKS FITTED WITH BRASS OR PLASTIC PLUGS. A FOURTH TEST COCK SHALL BE PROVIDED ON THE UPSTREAM SIDE OF THE INLET SHUTOFF VALVE. A STRAINER SHALL BE INSTALLED IMMEDIATELY UPSTREAM OF THE BFP. UNLESS OTHERWISE SPECIFIED, THE BFP DEVICE SHALL BE ASSEMBLY WITH BRONZE OR STAINLESS STEEL CONSTRUCTION AND ASSEMBLED WITH BOLTS THAT ARE RESISTANT TO ELECTROLYSIS.

NOTE: ALL COMPONENTS OF THE ASSEMBLY SHALL BE CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY, THE RPZ DEVICE SHALL HAVE CURRENT APPROVAL FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA- FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCHR). ASSEMBLY TO BE INDIVIDUALLY FACTORY TESTED, SHIPPED AND INSTALLED AS A UNIT.

INSTALLATION INSTRUCTIONS: THE RPZ BFP ASSEMBLY SHALL NOT BE INSTALLED BELOW GROUND. BUT INSTALLED ABOVE GROUND AS CLOSE AS PRACTICAL TO THE PROPERTY LINE OF THE PREMISES. AN ABOVE GROUND ENCLOSURE MUST BE PROVIDED FOR PROTECTION FROM FREEZING TEMPERATURES. INSTALL AN APPROVED DRAIN TO DISCHARGE THE DISCHARGE FROM THE RELIEF VALVE. THE DISCHARGE MUST NOT BE PLUMBED DIRECTLY INTO THE SANITARY SEWER. A SAMPLE TAP MUST BE ALLOWED BETWEEN THE SERVICE METER AND A BFP USED FOR SYSTEM CONTAINMENT UNLESS THIS CONNECTION IS PROTECTED BY AN APPROVED BFP.

CAUTION: SECTION 607.3. THERMAL EXPANSION CONTROL OF THE INTERNATIONAL PLUMBING CODE, 2000. AS ADOPTED BY THE GEORGIA STATE PLUMBING CODE (CONSISTED 2007 AND 2009 AMENDMENTS) SHOULD BE INCORPORATED IN THE DESIGN OF INSTALLATIONS AND DULY NOTED ON ALL APPLICABLE DRAWINGS PRIOR TO THE INSTALLATION OF ANY INLINE CHECKING DEVICE(S).

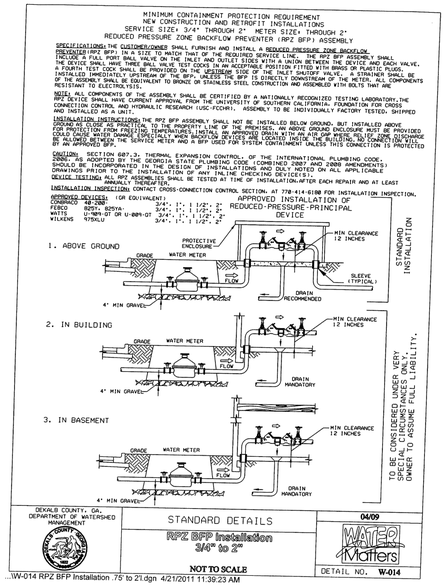
DEVICE TESTING: ALL RPZ ASSEMBLIES SHALL BE TESTED AT TIME OF INSTALLATION,AFTER EACH REPAIR AND AT LEAST ANNUALLY THEREAFTER.

INSTALLATION INSPECTION: CONTACT CROSS-CONNECTION CONTROL SECTION. AT 770-414-6180 FOR INSTALLATION INSPECTION.

APPROVED DEVICES: (OR EQUIVALENT)

| | |
|---|---|
| CONBRACO | 40-200 |
| FEBCO | 825Y, 825YA |
| WATTS | U-909-QT OR U-909-QT |
| WILKENS | 475AUV |

APPROVED INSTALLATION OF REDUCED-PRESSURE-PRINCIPAL DEVICE




DEKALB COUNTY, GA.
DEPARTMENT OF WATERSHED MANAGEMENT

STANDARD DETAILS

**RPZ BFP Installation**
**3/4" to 2"**

NOT TO SCALE

04/09

DETAIL NO. W-014

...\W-014 RPZ BFP Installation .75' to 21.dgn 4/21/2011 11:39:23 AM

MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS
SIZE= 3 INCH AND ABOVE SERVICE METER SIZE= 3 INCH AND ABOVE
DOUBLE CHECK VALVE (DCV) ASSEMBLY

SPECIFICATIONS: THE CUSTOMER/OWNER SHALL FURNISH AND INSTALL A DOUBLE CHECK VALVE ASSEMBLY (DCV) DOCKET OR PREVENTER WITH AN ASSEMBLY CONTAINED IN THE DEVICE. THE DCV BFP ASSEMBLY SHALL BE CONSTRUCTED WITH AN ASSEMBLY CONTAINED IN THE DEVICE. STAINLESS FLANGED OUTSIDE STEM AND YOKE GATE VALVE NEAR THE INLET AND OUTLET SIDES OF THE DEVICE. THE DEVICE SHALL BE PROVIDED WITH THREE BALL VALVE TEST COCKS FITTED WITH BRASS OR PLASTIC THREADED PLUGS. A FOURTH TEST COCK SHALL ALSO BE PROVIDED ON THE UPSTREAM SIDE OF THE INLET SHUT-OFF VALVE. THE DEVICE AND VALVE BODIES SHALL BE EQUIVALENT TO CAST IRON, COATED INSIDE AND OUT WITH FDA APPROVED FUSED EPOXY COATING AND ASSEMBLED WITH BOLTS THAT ARE RESISTANT TO ELECTROLYSIS. ALL INTERIOR COMPONENTS OF THE CHECKING DEVICE SHALL BE EQUIVALENT TO BRONZE AND/OR STAINLESS STEEL CONSTRUCTION AND BE ACCESSIBLE BY TOP DEVICE FOR MAINTENANCE AND REPAIR.

NOTE: ALL COMPONENTS OF THE ASSEMBLY SHALL BE CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. THE DCV DEVICE SHALL HAVE CURRENT APPROVAL FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA- FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCHR). ASSEMBLY TO BE INDIVIDUALLY FACTORY TESTED, SHIPPED AND INSTALLED AS A UNIT.

INSTALLATION INSTRUCTIONS: THE DCV BFP ASSEMBLY SHALL NOT BE BURIED IN EARTH BUT INSTALLED BELOW GROUND AS IN A CONCRETE VAULT. THE DCV BFP ASSEMBLY SHALL BE INSTALLED ABOVE GROUND WITHIN A BUILDING. NO INTERVENING CONNECTIONS SHALL BE ALLOWED BETWEEN THE METER INSTALLATION AND THE DCV. UNLESS THIS CONNECTION IS PROTECTED BY AN APPROVED BFP.

CAUTION: SECTION 607.3. THERMAL EXPANSION CONTROL OF THE INTERNATIONAL PLUMBING CODE, 2000. AS ADOPTED BY THE GEORGIA STATE PLUMBING CODE (CONSISTED 2007 AND 2009 AMENDMENTS) SHOULD BE INCORPORATED IN THE DESIGN OF INSTALLATIONS AND DULY NOTED ON ALL APPLICABLE DRAWINGS PRIOR TO THE INSTALLATION OF ANY INLINE CHECKING DEVICE(S).

DEVICE TESTING: ALL DCV ASSEMBLIES SHALL BE TESTED AT TIME OF INSTALLATION AND AT LEAST ANNUALLY THEREAFTER.

PERMITS, PLAN APPROVAL & AND INSPECTIONS: MUST BE OBTAINED AND SCHEDULED PRIOR TO WORK THROUGH DEKALB COUNTY, DEPARTMENT OF PUBLIC WORKS. CONTACT CROSS-CONNECTION CONTROL SPECIALIST AT 770-414-3354 FOR INSTALLATION INSPECTION AND DEVICE TESTING.

APPROVED DEVICES:(OR EQUIVALENT)

| | | |
|---|---|---|
| AMES | 2000 DCA DSV-RW | 4", 6", 8" |
| CONBRACO | 40-100 DSV-RW | 3", 4", 6", 8", 10" |
| FEBCO | 856 DSV-RW | 3", 4", 6", 8", 10" |
| WATTS | 709 DSV-RW | 3", 4", 6", 8", 10" |
| WILKENS | 908 DSV-RW | 3", 4", 6", 8" |

VAULT SPECIFICATIONS:

(1) VAULT SHALL BE PRECAST REINFORCED CONCRETE WITH A MINIMUM THICKNESS OF AT LEAST 6".

(2) VAULT BOTTOM 6" POURED CONCRETE SLAB, SLOPED TO GRAVEL SUMP (4" X 4"). SLAB TO BE POURED ON 12" OF NO. 57 COMPACTED STONE.

(3) VAULT TOP SHALL BE REINFORCED CONCRETE WITH 36" X 36" ACCESS OPENING OFFSET TO ONE SIDE.

(4) ACCESS LADDER DOWELED TO WALL AND CENTERED AT ACCESS OPENING.

(5) HATCH COVER: BILCO CORPORATION SINGLE MODEL #J-4AL OR EQUIVALENT.

(6) VAULT INLET/OUTLET PIPE SPACING TO BE REFLECTED ON PLAN OR HORIZONTAL PIPE MUST NOT SUPPORT VAULT.

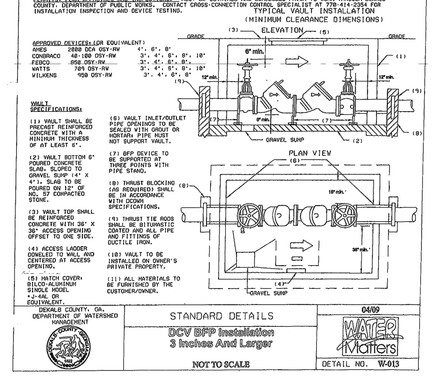
(7) BFP DEVICE TO BE SUPPORTED AT THREE POINTS WITH PIPE STAND.

(8) THRUST BLOCKING (AS REQUIRED) SHALL BE IN ACCORDANCE WITH DCDWM SPECIFICATIONS.

(9) THRUST TIE RODS SHALL BE BITUMASTIC COATED AND ALL PIPE AND FITTINGS OF DUCTILE IRON.

(10) VAULT TO BE INSTALLED ON OWNER'S PRIVATE PROPERTY.

(11) ALL MATERIALS TO BE FURNISHED BY THE CUSTOMER/OWNER.




DEKALB COUNTY, GA.
DEPARTMENT OF WATERSHED MANAGEMENT

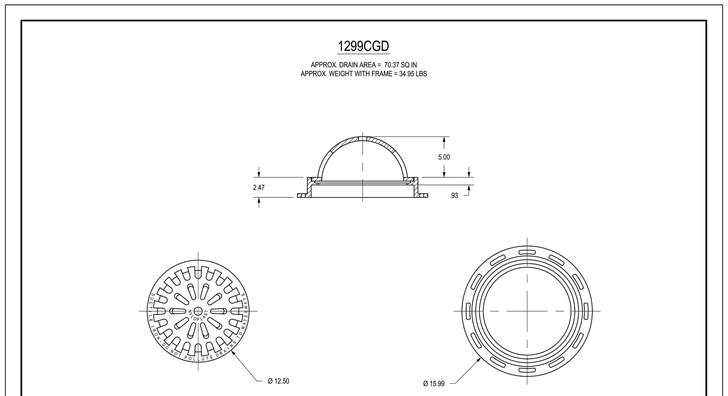
STANDARD DETAILS

**DCV BFP Installation**
**3 Inches And Larger**

NOT TO SCALE

04/09

DETAIL NO. W-013




ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE
QUALITY: MATERIAL SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-229

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| | | | |
|---|---|---|---|
| DRAWN BY | EBC | MATERIAL | DUCTILE IRON |
| DATE | 3-6-06 | | |
| APPD BY | CJA | PROJECT NO./NAME | |
| DATE | 3-6-06 | | |
| DWG SIZE | A | SCALE 1:8 | SHEET 1 OF 1 |

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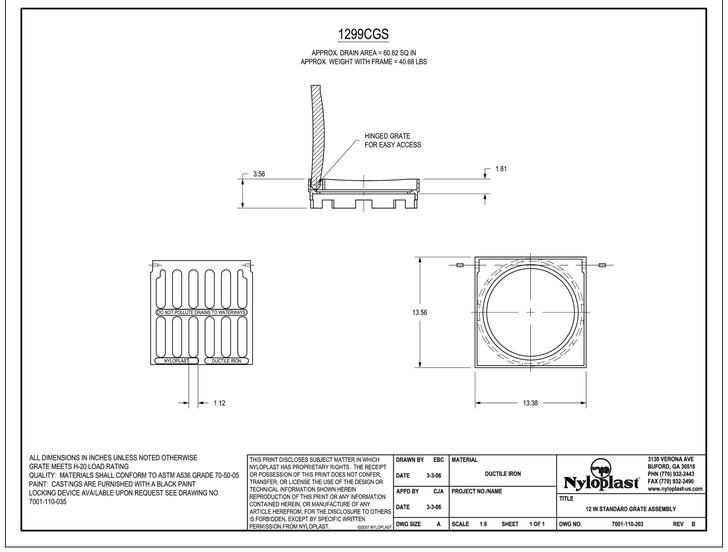
TITLE
12 IN DOME GRATE ASSEMBLY

DWG NO. 7001-110-206 REV B




ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-035

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| | | | |
|---|---|---|---|
| DRAWN BY | EBC | MATERIAL | DUCTILE IRON |
| DATE | 3-3-06 | | |
| APPD BY | CJA | PROJECT NO./NAME | |
| DATE | 3-3-06 | | |
| DWG SIZE | A | SCALE 1:8 | SHEET 1 OF 1 |

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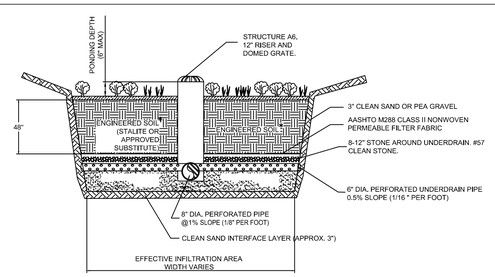
TITLE
12 IN STANDARD GRATE ASSEMBLY

DWG NO. 7001-110-203 REV B




CROSS-SECTION (TYP)
NOT TO SCALE

NOTES:

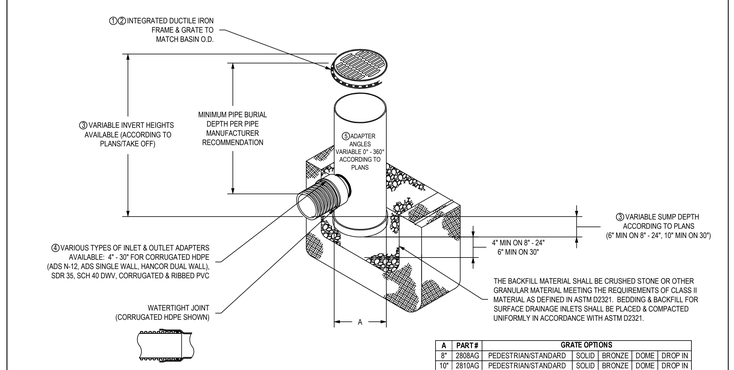
1. ENGINEERED SOIL SHALL NOT BE MECHANICALLY COMPACTED OR OVER COMPACTED.
2. ENGINEERED SOIL SHALL HAVE AN INFILTRATION RATE OF AT LEAST 1"/HR.
3. ENGINEERED SOIL MUST BE APPROVED BY THE ENGINEER.
4. UNDERDRAIN TO BE PERFORATED PVC OR HDPE PIPE IN A GRAVEL LAYER. PERFORATIONS TO BE $\frac{1}{2}$" SPACED 6" APART.

ENGINEERED SOIL:
ITSAUL NATURAL BIORETENTION GROWING MEDIA SHALL BE USED AS INDICATED ON THE PLANS AS THE BIORETENTION SOIL.
CUT SHEET FOR SOIL TO BE APPROVED BY ENGINEER PRIOR TO PLACEMENT.

## BIORETENTION AREA

NOT TO SCALE

## NYLOPLAST DRAIN BASIN




| A | PART # | GRATE OPTIONS | | | | |
|---|---|---|---|---|---|---|
| 8" | 2808AG | PEDESTRIAN/STANDARD | SOLID | BRONZE | DOME | DROP IN |
| 10" | 2810AG | PEDESTRIAN/STANDARD | SOLID | BRONZE | DOME | DROP IN |
| 12" | 2812AG | PEDESTRIAN / STANDARD | SOLID | BRONZE | DOME | DROP IN |
| 15" | 2815AG | PEDESTRIAN / STANDARD | SOLID | BRONZE | DOME | DROP IN |
| 18" | 2818AG | PEDESTRIAN / STANDARD | SOLID | N/A | DOME | DROP IN |
| 24" | 2824AG | PEDESTRIAN / STANDARD | SOLID | N/A | DOME | DROP IN |
| 30" | 2830AG | PEDESTRIAN / STANDARD | SOLID | N/A | DOME | N/A |

① - 8" - 30" GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE 8" - 10" BRONZE GRATES
② - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
③ - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
④ - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
⑤ - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012, 7001-110-013, & 7001-110-014.
6 - GRATES SHALL MEET H-10 LOAD RATING FOR 12" - 24" PED
7 - GRATES SHALL MEET H-20 LOAD RATING FOR 30" PED & 12" - 30" STD & SOLID
8 - ALL BRONZE GRATES, DROP IN GRATES, & 8" & 10" PED/STD GRATES & SOLID COVERS ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY
9 - DOME GRATES HAVE NO LOAD RATING

| | | | |
|---|---|---|---|
| DRAWN BY | EBC | MATERIAL | |
| DATE | 1-23-06 | | |
| APPD BY | CJA | PROJECT NO./NAME | |
| DATE | 1-23-06 | | |
| DWG SIZE | A | SCALE NTS | SHEET 1 OF 1 |

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TITLE
DRAIN BASIN WITH STANDARD GRATE
QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-144 REV D

Kimley»Horn
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817 WEST PEACHTREE ST, NW SUITE 601
ATLANTA, GEORGIA 30308-1121
PHONE: (404) 335-8700
WWW.KIMLEY-HORN.COM

| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY PERNOSHAL PARK

DETAILS

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

GEORGIA REGISTERED No. PE028068 PROFESSIONAL ENGINEER BENJAMIN W. SKIMMERE 2-13-15

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C8-04 |

Drawing name: K:\AMT_LRO\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C9-00_DETAILS.dwg Feb 25, 2015 11:19am by: rafael.lawrence
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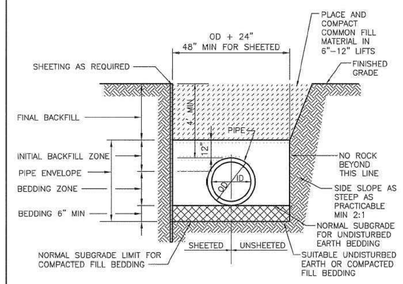



NOTES:

1. SEE DESIGN STANDARDS FOR ADDITIONAL BEDDING AND TRENCH BACKFILL REQUIREMENTS.
2. DEPTH OF COVER OVER WATER MAINS SHALL BE 4'–0" AS MEASURED FROM TOP OF PAVEMENT TO TOP OF PIPE
3. MINIMUM 6" COMPACTED SOIL BETWEEN BOTTOM OF PIPE AND ROCK.
4. NO ROCK IN BACKFILL FOR FIRST 2'–0" ABOVE TOP OF PIPE.
5. BEDDING AND BACKFILL TO BE NO. 57 STONE UNDER ROADWAYS AND PAVED AREAS.
6. BEDDING TO BE GDOT TYPE II FOUNDATION BACKFILL.
7. BACKFILL TO BE FREE OF ORGANICS, OBJECTIONABLE MATERIAL AND STONES LARGER THAN 6" IN ITS LONGEST DIMENSION.

DEKALB COUNTY, GA
Department of Watershed Management

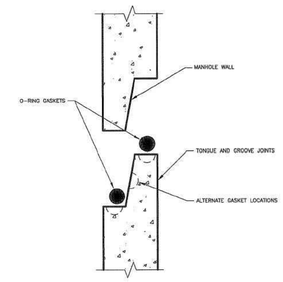
STANDARD DETAILS

**Backfill and Allowable Trench Widths Detail**

NOT TO SCALE

11/07

DETAIL NO. W-019




NOTE:
AFTER INSTALLATION JOINTS SHALL BE GROUTED SMOOTH WITH CEMENT GROUT ON INSIDE AND OUT

DEKALB COUNTY, GA
Department of Watershed Management

STANDARD DETAILS

**Manhole Joint Detail**

NOT TO SCALE

12/07

DETAIL NO S-003

MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS
SERVICE SIZE: THROUGH 2" METER SIZE: THROUGH 2"
DOUBLE CHECK VALVE (DCV) ASSEMBLY

SPECIFICATIONS: THE CUSTOMER/OWNER SHALL FURNISH AND INSTALL A DOUBLE CHECK VALVE ASSEMBLY (DCV) BACKFLOW PREVENTER(BFP) IN A SIZE TO MATCH THAT OF THE REQUIRED SERVICE METER. THE DCV BFP ASSEMBLY SHALL INCLUDE A FULL PORT BALL VALVE ON THE INLET AND OUTLET SIDES WITH A UNION OR SWIVEL COUPLING NUT BETWEEN THE DEVICE AND EACH VALVE. THE DEVICE SHALL HAVE THREE BALL VALVE TEST COCKS IN THE VERTICAL POSITION FITTED WITH BRASS OR PLASTIC PLUGS. A FOURTH TEST COCK SHALL BE PROVIDED ON THE UPSTREAM SIDE OF THE INLET SHUT-OFF VALVE. ALL COMPONENTS OF THE ASSEMBLY SHALL BE EQUIVALENT TO BRONZE OR STAINLESS STEEL CONSTRUCTION AND ASSEMBLED WITH BOLTS THAT ARE RESISTANT TO ELECTROLYSIS. ACCESS TO BOTH CHECKING DEVICES SHALL BE BY TOP AND/OR SIDE ENTRY FOR MAINTENANCE AND REPAIR OF ALL INTERIOR PARTS. VALVE HANDLES SHALL TURN UP TO CLOSE AND INBOARD (90 DEGREES) TO OPEN.

NOTE: ALL COMPONENTS OF THE ASSEMBLY SHALL BE CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. THE DCV DEVICE SHALL HAVE CURRENT APPROVAL FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCHR). ASSEMBLY TO BE INDIVIDUALLY FACTORY TESTED, SHIPPED AND INSTALLED AS A UNIT.

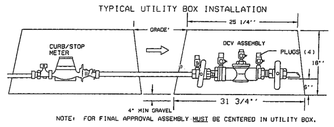
INSTALLATION INSTRUCTIONS: THE DCV BFP ASSEMBLY SHALL NOT BE BURIED IN EARTH BUT INSTALLED IN A UTILITY BOX ADJACENT TO OR AS CLOSE AS PRACTICAL TO THE OUTLET SIDE OF THE METER INSTALLATION. THIS ASSEMBLY MUST BE CENTERED IN THE ENCLOSURE. UNDER NO CIRCUMSTANCES WILL ANY CONNECTION BE ALLOWED BETWEEN THE SERVICE METER AND A BFP USED FOR SYSTEM CONTAINMENT UNLESS THIS CONNECTION IS PROTECTED BY AN APPROVED BFP. AT THE BOTTOM OF THESE INSTRUCTIONS YOU WILL FIND AN EXCERPT FROM THE GEORGIA STATE PLUMBING CODE ON THERMAL EXPANSION.

APPROVED UTILITY BOXES: (OR EQUIVALENT):
CARSON INDUSTRIES MODEL NO. 1324CP3PDVL
CDR SYSTEMS CORP MODEL NO. VA181324-18
BROOKS PRODUCTS, INC MODEL NO. 1324

DEVICE TESTING: ALL DCV ASSEMBLIES SHALL BE TESTED AT TIME OF INSTALLATION AND AT LEAST ANNUALLY THEREAFTER. CONTACT CROSS-CONNECTION CONTROL SPECIALIST, AT 770-414-2354 FOR INSTALLATION INSPECTIONS AND DEVICE TESTS.

APPROVED DEVICES: (OR EQUIVALENT)
CONBRACO 40-100 3/4", 1", 1 1/2", 2" (WITH UNIONS)
FEBCO 805Y 3/4" - 1", 1 1/2", 2" (WITH UNIONS)
WATTS U-007-QT 3/4", 1", 1 1/2", 2"
WILKINS 950XLT - 3/4", 1", 1 1/2", 2"

TYPICAL UTILITY BOX INSTALLATION




NOTE: FOR FINAL APPROVAL ASSEMBLY MUST BE CENTERED IN UTILITY BOX.

*** SPECIAL CAUTION ***

INTERNATIONAL PLUMBING CODE, 2006, ADOPTED BY GEORGIA STATE PLUMBING CODE (2007 AND 2008 AMENDMENTS)

SECTION 607.3 THERMAL EXPANSION CONTROL
A MEANS OF CONTROLLING INCREASED PRESSURE CAUSED BY THERMAL EXPANSION SHALL BE PROVIDED WHERE REQUIRED IN ACCORDANCE WITH SECTIONS 607.3.1 AND 607.3.2.

607.3.1 PRESSURE-REDUCING VALVE.
FOR WATER SERVICE SYSTEM SIZES UP TO AND INCLUDING 2 INCHES (51 MM), A DEVICE FOR CONTROLLING PRESSURE SHALL BE INSTALLED WHERE, BECAUSE OF THERMAL EXPANSION, THE PRESSURE ON THE DOWNSTREAM SIDE OF A PRESSURE-REDUCING VALVE EXCEEDS THE PRESSURE-REDUCING VALVE SETTING.

607.3.2 BACKFLOW PREVENTION DEVICE OR CHECK VALVE.
WHERE A BACKFLOW PREVENTION DEVICE, CHECK VALVE OR OTHER DEVICE IS INSTALLED ON A WATER SUPPLY SYSTEM UTILIZING STORAGE WATER HEATING EQUIPMENT SUCH THAT THERMAL EXPANSION CAUSES AN INCREASE IN PRESSURE, A DEVICE FOR CONTROLLING PRESSURE SHALL BE INSTALLED.

DEKALB COUNTY, GA.
DEPARTMENT OF WATERSHED MANAGEMENT

STANDARD DETAILS

**DCV BFP Installation**
**3/4 Inch to 2 Inch**

NOT TO SCALE

04/09

DETAIL NO. W-016

FIG. 1 COMPLETED JOINT BEFORE OFFSET

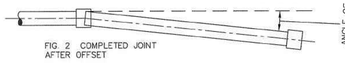



FIG. 2 COMPLETED JOINT AFTER OFFSET

| TYPE JOINT | PIPE SIZE | PIPE LENGTH | MAXIMUM ANGLE OF DEFLECTION | MAXIMUM OFFSET | RADIUS OF CURVATURE |
|---|---|---|---|---|---|
| SLIP | 6" – 8" | 18' | 5° | 19" | 205' |
| MJ | 6" – 8" | 18' | 5° | 19" | 205' |
| SLIP | 16" | 12' | 4° | 10" | 175' |
| SLIP | 16" | 18' | 4° | 15" | 260' |

NOTE:
ALL JOINTS MUST BE ASSEMBLED AS SHOWN IN FIG. 1 BEFORE MAKING DEFLECTION.

DEKALB COUNTY, GA
Department of Watershed Management

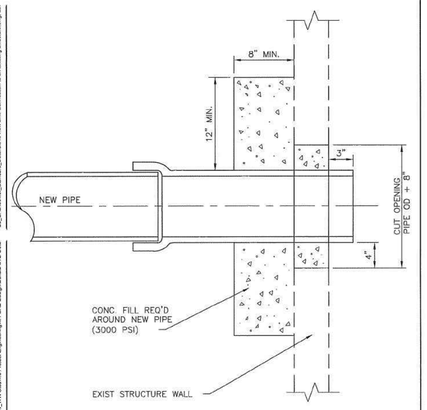
STANDARD DETAILS

**Maximum Allowable Offsets and Deflections**

NOT TO SCALE

11/07

DETAIL NO. W-005




DEKALB COUNTY, GA
Department of Watershed Management

STANDARD DETAILS

**New Line Connection to an Existing Structure**

NOT TO SCALE

12/07

DETAIL NO. S-010

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| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY PERNOSHAL PARK

DETAILS

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

GEORGIA REGISTERED No. PE038096 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE
2-13-15

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | C8-05 |

Drawing name: K:\AMT_LIRA\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\C9-00_DETAILS.dwg Feb 25, 2015 11:19am by: rafael.lawrence
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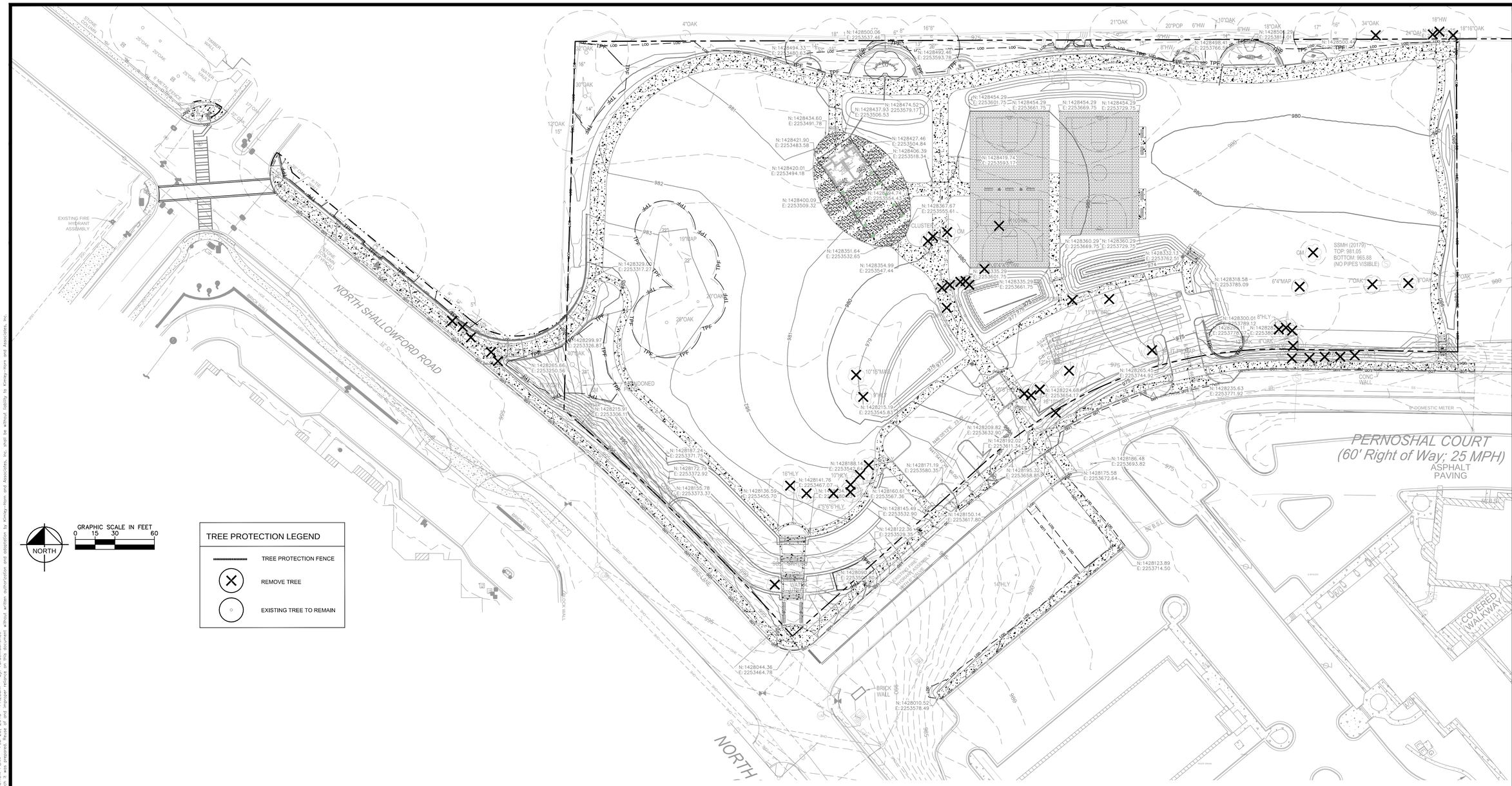


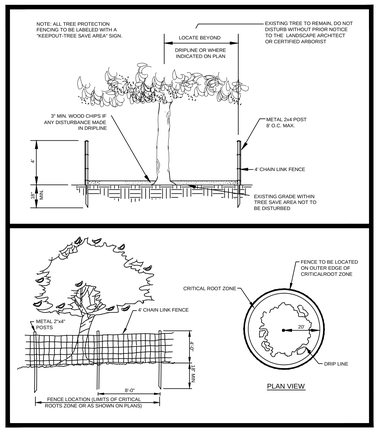


TYPICAL TREE PROTECTION FENCE

NOT TO SCALE

## TREE PROTECTION NOTES:

1. CONTRACTOR SHALL LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE LANDSCAPE CONSTRUCTION BEGINS.
2. NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL REQUIREMENTS OF THE TREE PLANTING HAVE BEEN SATISFACTORILY COMPLETED.

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DUNWOODY PERNOSHAL PARK

TREE PROTECTION PLAN

DUNWOODY PARKS AND RECREATION

41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

GEORGIA REGISTERED No. PE036066 PROFESSIONAL ENGINEER BENJAMIN W. SKUMICZ
2-13-15

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| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | L1-00 |

Drawing name: K:\AMT_LRG\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\L1-00_TREE PROTECTION PLAN.dwg L1-00 TREE PROTECTION PLAN Feb 25, 2015 11:20am by: rafael.lawrence
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NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

## PLANT SCHEDULE

| TREES | QTY | BOTANICAL NAME | COMMON NAME | CONT | CAL | SIZE |
|---|---|---|---|---|---|---|
| | 13 | Acer rubrum `Autumn Flame` | Autumn Flame Red Maple | B & B | 3" Cal | 12`-14` ht |
| | 11 | Amelanchier x grandiflora `Autumn Brilliance` | `Autumn Brilliance` Serviceberry | B & B | 3"Cal | 6`-8` ht |
| | 4 | Cercis canadensis | Eastern Redbud | B & B | 3" Cal | 6`-8` ht |
| | 17 | Chionanthus virginicus | White Fringetree | B & B | 3" Cal | 12`-20` ht. |
| | 6 | Cryptomeria japonica | Japanese Cedar | B & B | 3" Cal | 6`-8` ht |
| | 15 | Ilex attenuata Savannah | Savannah Holly | B & B | 3" Cal | 10`-12` ht |
| | 9 | Nyssa sylvatica `Green Gable` TM | Black Gum | B & B | 4" Cal | 30`-50` ht. |
| | 6 | Quercus bicolor | Swamp White Oak | B & B | 4" Cal | 30`-50` ht. |
| | 14 | Quercus phellos | Willow Oak | B & B | 3" Cal | 12`-14` ht |

| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | CONT | SIZE |
|---|---|---|---|---|---|
| | 69 | Abelia x `Mardi Gras` | Mardi Gras Abelia | 2 gal | 2`-4` ht. |
| | 200 | Chamaecyparis pisifera `Golden Mopps` | Golden Mopps False Cypress | 3 gal | 2`-4` ht. |
| | 20 | Cleyera japonica | Sakaki | 5 gal | 8`-10` ht. |
| | 67 | Ilex cornuta `Burfordii` | Burford Chinese Holly | 3 gal | |
| | 241 | Loropetalum chinense ‘Shang-lo Purple Pixie` | Purple Pixie Loropetalum | 3 gal | 2`-4` ht. |
| | 197 | Miscanthus sinensis `Little Kitten` | Little Kitten Eulalia Grass | 1 gal | 3` ht |
| | 177 | Rhaphiolepis indica | Indian Hawthorn | 2 gal | 4`-6` ht. |

| SHRUB AREAS | QTY | BOTANICAL NAME | COMMON NAME | CONT | SPACING |
|---|---|---|---|---|---|
| | 776 | Carex comans `Frosted Curls` | New Zealand Hair Sedge | 1 gal | 18" o.c. |
| | 599 | Iris prismatica | Blue Flag Iris | 1 gal | 12" o.c. |
| | 700 | Juncus pallidus `Javelin | Javelin Rush | 1 gal | 18" o.c. |
| | 177 | Miscanthus sinensis `Adagio` | Adagio Eulalia Grass | 3 gal | 36" o.c. |
| | 204 | Muhlenbergia capillaris `White Cloud` | White Muhly Grass | 3 gal | 36" o.c. |
| | 77 | Panicum virgatum `Heavy Metal` | Heavy Metal Switch Grass | 3 gal | 48" o.c. |
| | 193 | Pennisetum alopecuroides `Hameln` | Hameln Dwarf Fountain Grass | 3 gal | 30" o.c. |
| | 85 | Rosa x `RADsunny` | Sunny Knockout Rose | 3 gal | 24" o.c. |
| | 129 | Rudbeckia nitida `Herbstsonne` | Autumn Sun Coneflower | 1 gal | 30" o.c. |

| GROUND COVERS | QTY | BOTANICAL NAME | COMMON NAME | CONT | SIZE | SPACING |
|---|---|---|---|---|---|---|
| | 102 | Annual Color | Annual Color | 4"pot | | 12" o.c. |
| | 40,074 sf | Athletic Turf Grass | Athletic Turf Grass | seed | | |
| | 60,507 sf | Cynodon dactylon `Tifton 10` | Bermuda Grass | sod | | |
| | 7,465 sf | Cynodon dactylon `Tifton 10` | Bermuda Grass | SOD | | |
| | 1,013 | Liriope spicata | Creeping Lily Turf | 1 gal | 1``-3`` diameter | 12" o.c. |
| | 1,430 | Rosa x `Flower Carpet Coral` | Rose | 1 gal | 30`` ht. | 18" o.c. |

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No. | REVISIONS | DATE | BY

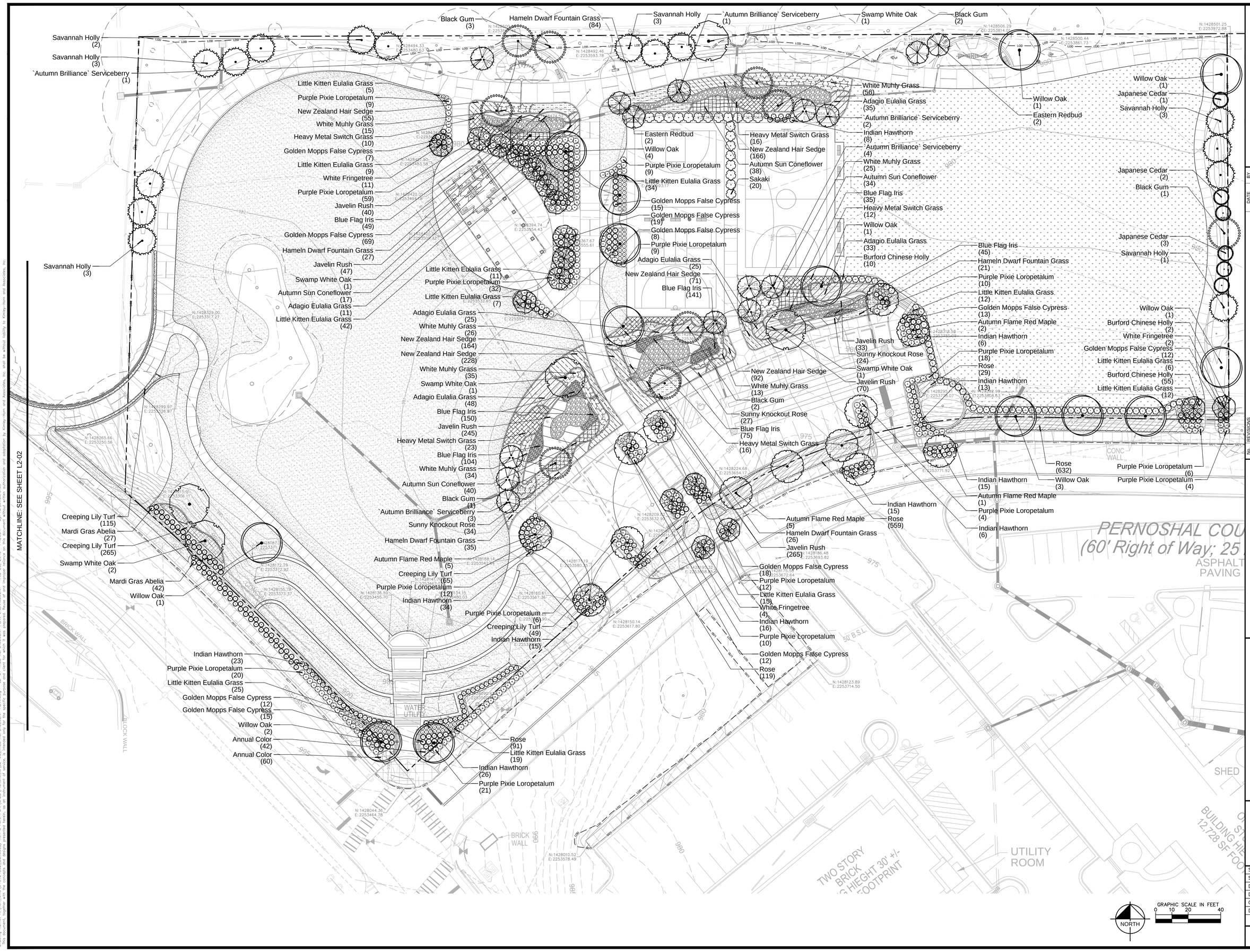
DUNWOODY PERNOSHAL PARK

TREE REPLACEMENT PLAN

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

GEORGIA REGISTERED No. PE038066 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE
2-13-15

SCALE (H):
SCALE (V):
DESIGNED BY: RS/RL
DRAWN BY: AL/ZR
CHECKED BY: RS/BS
DATE: 09/19/2014
KHA PROJECT NO.: 019124002
SHEET NUMBER L2-00

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DUNWOODY PERNOSHAL PARK

TREE REPLACEMENT PLAN
ENLARGEMENT

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE028006 BENJAMIN W. SKIDMORE 2-13-15

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| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | L2-01 |

Drawing name: K:\AMT_LRC\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\L2-00_TREE REPLACEMENT PLAN.dwg L2-01 TREE REPLACEMENT PLAN ENLARGEMENT Feb 25, 2015 11:20am by: rafael.lawrence
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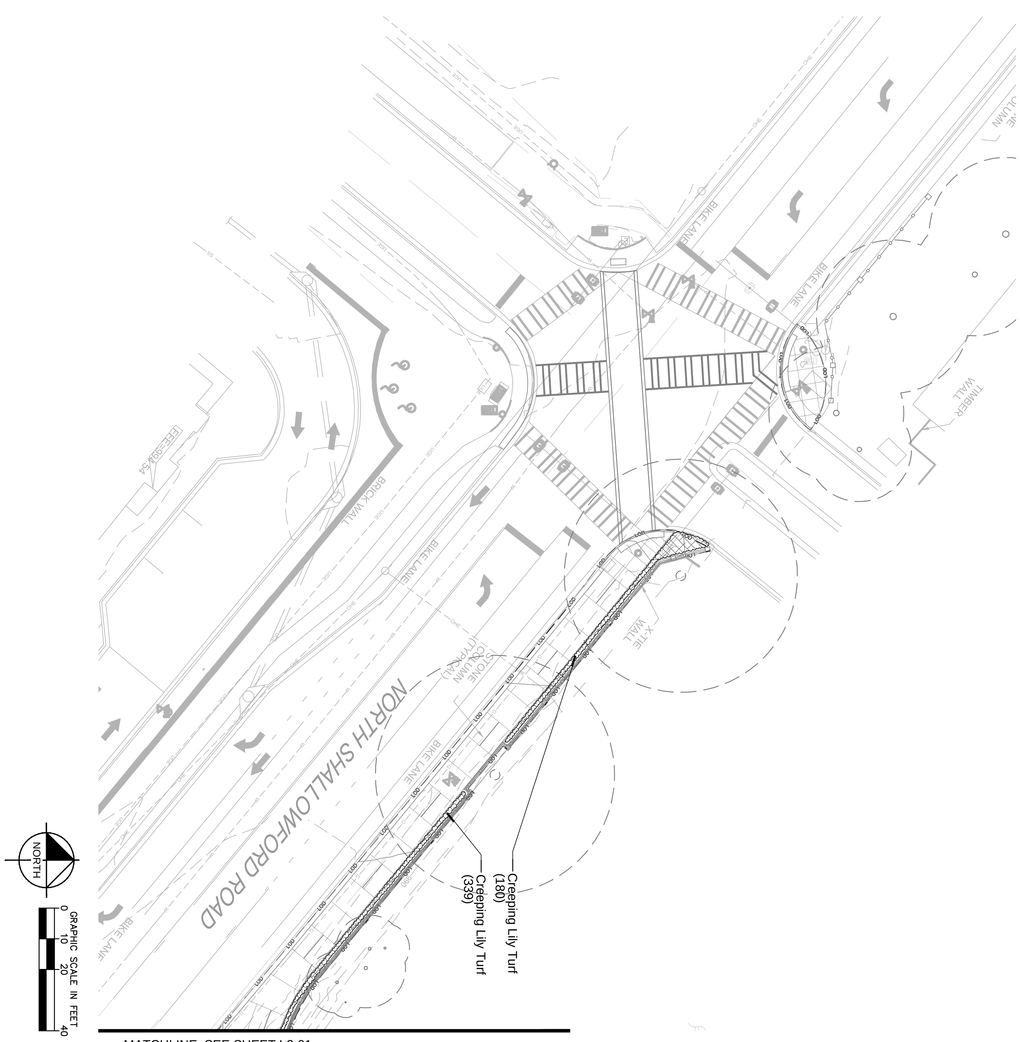


MATCHLINE: SEE SHEET L2-01

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|---|---|---|---|---|
| SCALE (H): | DUNWOODY PARKS AND RECREATION | DUNWOODY PERNOSHAL PARK | No. REVISIONS | DATE BY |
| SCALE (V): | 41 PERIMETER CENTER EAST<br>DUNWOODY, GA 30346<br>(678) 382 - 6800 | TREE REPLACEMENT PLAN ENLARGEMENT | | |
| DESIGNED BY: RS/RL | | | | |
| DRAWN BY: AL/ZR | | | | |
| CHECKED BY: RS/BS | | | | |
| DATE: 09/19/2014 | | | | |
| KHA PROJECT NO.: 019124002 | | | | |
| SHEET NUMBER L2-02 | | | | |

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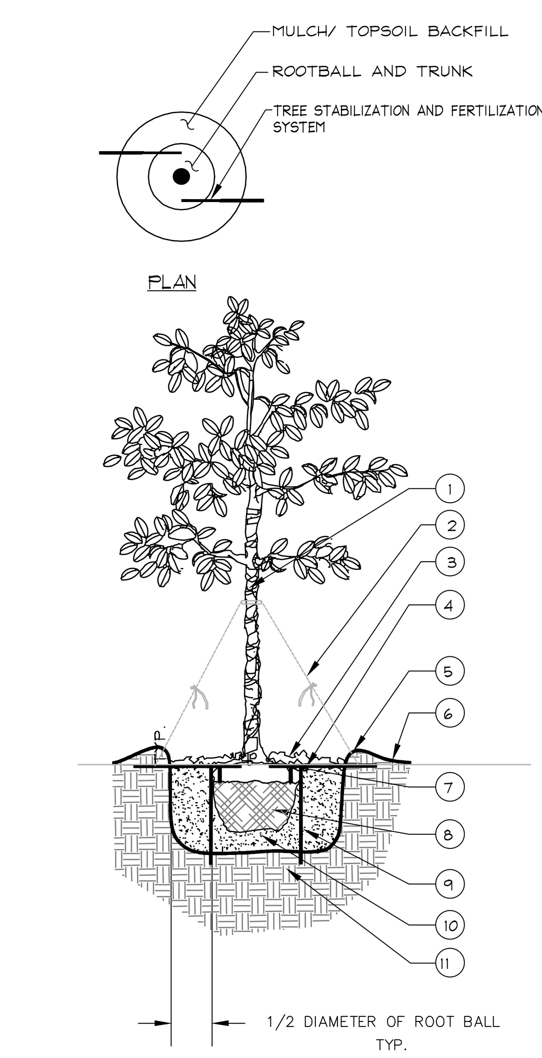
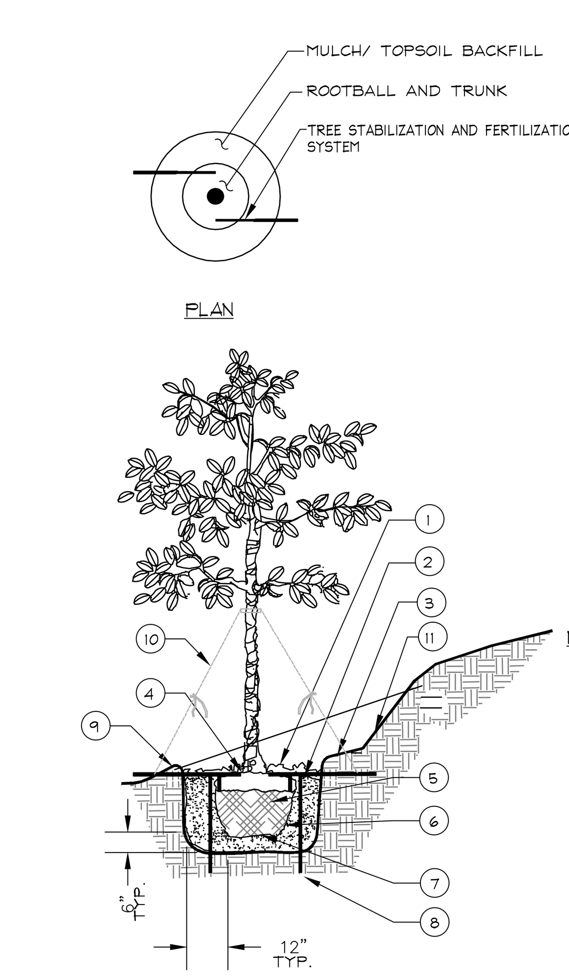



1. TREE WRAP
2. 1" SLACK
3. 2" MINIMUM OF HARDWOOD BARK MULCH FROM TRUNK COMPACTED OR AS SPECIFIED.
4. STAKE SIZE SHALL BE ONE SIZE HIGHER THAN REQUIRED FOR SIZE OF TREE. REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS. GUY AS NECESSARY IN EXTREME WIND CONDITIONS WITH #10 GAUGE WIRE AT ½ TREE HEIGHT WITH FLAGGING.
5. 3" HIGH SOIL BERM TO HOLD WATER.
6. FINISHED GRADE (SEE GRADING PLAN)
7. TOP OF ROOT FLARE MIN. 1" ABOVE FINISHED GRADE
8. B & B OR CONTAINERIZED (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
9. PREPARED PLANTING SOIL AS SPECIFIED.
10. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING ROOTBALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
11. UNDISTURBED SUBSOIL

NOTES:

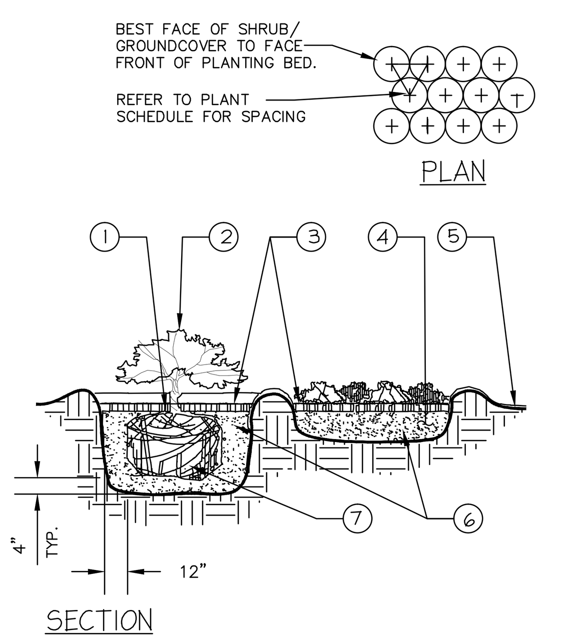
A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/2 OF ROOTBALL.
C. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
D. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT.
E. BRANCHING HEIGHT TO A.A.N. STANDARDS.
F. REFER TO MANUFACTURES SPECIFICATION FOR INSTALLATION.



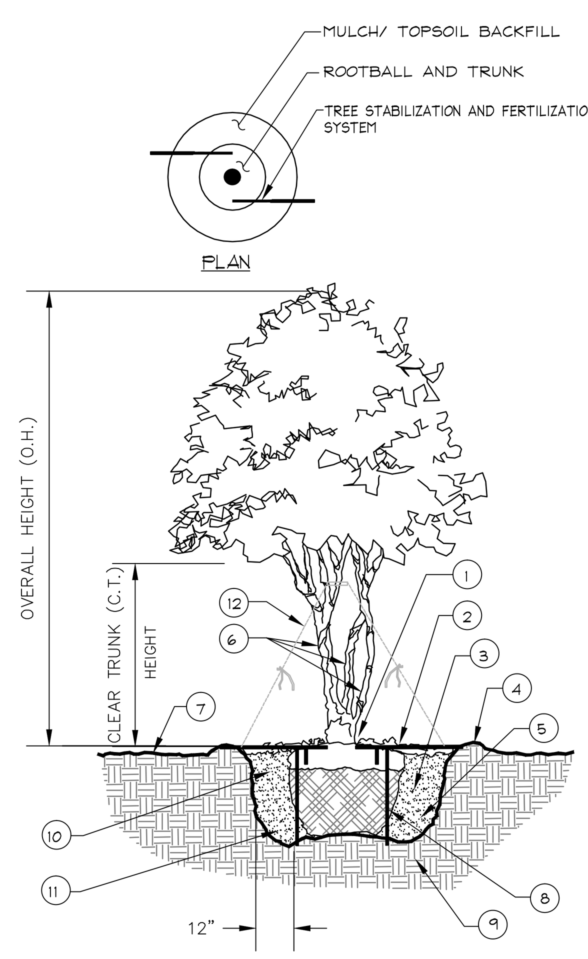

1. 3" MINIMUM OF HARDWOOD BARK MULCH COMPACTED OR AS SPECIFIED.
2. STAKE SIZE SHALL BE ONE SIZE HIGHER THAN REQUIRED FOR SIZE OF TREE. REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS. GUY AS NECESSARY IN EXTREME WIND CONDITIONS WITH #10 GAUGE WIRE AT ½ TREE HEIGHT WITH FLAGGING
3. 4" MINIMUM OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
4. TOP OF ROOT FLARE MIN. 1" ABOVE FINISHED GRADE
5. B&B OR CONTAINERIZED (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
6. PREPARE PLANTING SOIL AS SPECIFIED.
7. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING ROOTBALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
8. UNDISTURBED SUBSOIL
9. 3" HIGH SOIL BERM TO HOLD WATER.
10. 1" SLACK
11. CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR PLANTING.

NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
C. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
D. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT.
E. BRANCHING HEIGHT TO A.A.N. STANDARDS.
F. REFER TO MANUFACTURES SPECIFICATION FOR INSTALLATION.




1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" – 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. WHEN USED IN MASSES– PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS/HEIGHT
3. 3" MINIMUM OF HARDWOOD BARK MULCH COMPACTED OR AS SPECIFIED.
4. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
5. 4" MINIMUM OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
6. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUND– COVERS AND SHRUBS USED IN MASSES ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
7. SCARIFY ROOTBALL SIDES AND BOTTOM.

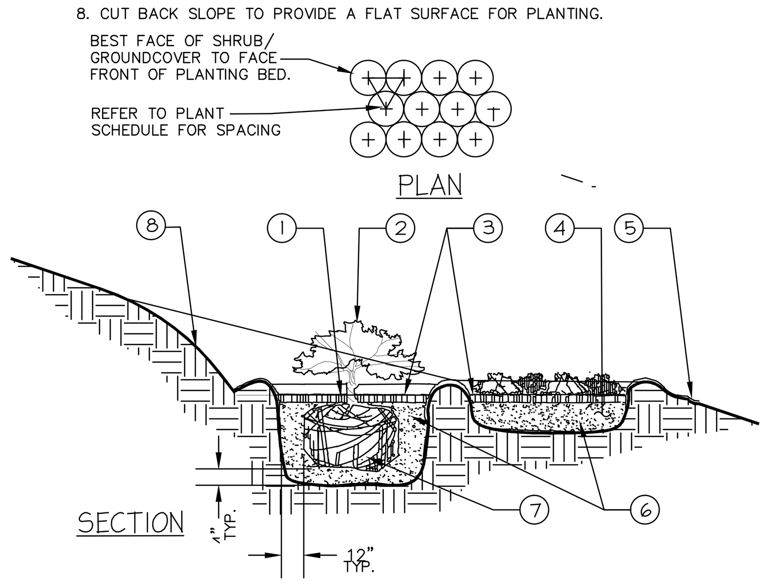



1. BASE OF TREE SHALL BE PLANTED SLIGHTLY ABOVE (1" MIN.) ADJACENT FINISH GRADE. REMOVE ALL TWINE & STRAPS & CUT BURLAP FROM TOP 1/3 OF ROOTBALL. NO SYNTHETIC BURLAP WILL BE ACCEPTED.
2. 3" SHREDDED HARDWOOD BARK MULCH OR APPROVED EQUAL
3. DIAMETER OF TREE PIT TO BE TWICE THE DIAMETER OF ROOTBALL-ROUGHEN SIDES OF TREE PIT.
4. 3" HIGH SOIL BERM TO HOLD WATER.
5. TOPSOIL MIX BACKFILL
6. TREE WRAP
7. 4" MIN. OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
8. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOTBALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
9. UNDISTURBED SUBSOIL
10. PREPARE PLANTING SOIL AS SPECIFIED.
11. STAKE SIZE SHALL BE ONE SIZE HIGHER THAN REQUIRED FOR SIZE OF TREE. REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS. GUY AS NECESSARY IN EXTREME WIND CONDITIONS WITH #10 GAUGE WIRE.
12. 1" SLACK

NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. SET TREE AT PROPER DEPTH. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
C. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
D. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT
E. BRANCHING HEIGHT TO A.A.N. STANDARDS
F. IF SITE CONDITIONS REQUIRE GUYING OF THE TREE, FASTEN #10 GUY WIRE TO STRONGEST TRUNK AT THE CENTER OF THE MULTI-TRUNK TREE WITH FLAGGING.
G. REFER TO MANUFACTURES SPECIFICATION FOR INSTALLATION.

1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" – 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. WHEN USED IN MASSES– PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS/HEIGHT
3. 3" MINIMUM OF HARDWOOD BARK MULCH COMPACTED OR AS SPECIFIED.
4. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
5. 4" MINIMUM OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
6. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUND– COVERS AND SHRUBS USED IN MASSES ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
7. SCARIFY ROOTBALL SIDES AND BOTTOM.
8. CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR PLANTING.




Landscaping Specifications:

Part 1: General

1.1 Description:
A. The work consists of furnishing all labor, materials, appliances, transportation, etc., required for installation of all landscaping work ad establishment of trees, shrubs, perennials, and groundcover as shown on the drawings, as included in the Plant List and as herein specified.
B. Work shall include maintenance and watering of all planting areas of the Contract until final acceptance.

1.2 Quality Assurance:
A. Sizing and grading of plant materials shall comply with the sizing and grading of the latest edition of the "American Standard for Nursery stock" by the American Association of Nurserymen, (AAN).

1.3 Project Conditions:
A. Contractor shall be responsible for the testing and soil analysis of both existing soils and topsoil supplied for planting beds/pits indicating soil pH, absence or presence of any toxic substances, micro and macro nutrient values, concentrations of soluble salts, organic content and recommended amendment.
B. The contractor shall field check the location of utilities before installation of any material or plants. The Contractor shall be responsible for all drainage resulting from neglect or failure to comply with this requirement.
C. A complete list of plants, including a schedule of size and other requirements is shown on the drawings under "Plant List."
D. All rock, underground construction debris, tree roots from adjacent trees to remain, or obstructions encountered during the excavation of the tree pits shall be brought to the attention of the Owner prior to proceeding with work at the specific site.
E. Tree pits shall be tested by filling a one–foot hole at bottom of the pit with water twice in succession. Conditions causing the retention of water more than 24 hours shall be brought to the attention of the Owner prior to planting.
F. The Contractor shall notify the Owner, in writing, all conditions which the Contractor considers detrimental to the growth of the plant material.

Part 2: Products

2.1 Topsoil:
A. For use in preparing soil for backfilling plant pits. Topsoil shall be fertile, friable, natural topsoil, without mixture of subsoil materials, and obtained from a well drained arable site. It shall not contain substances which may be harmful to plant growth. Topsoil shall be screened and free from clay, lumps, stones, roots, plants, or similar substances 1" or more in diameter, debris, or other objects which might be a hindrance to planting operations. Topsoil shall contain at least 4–6% organic matter by weight and have a pH range of 5.5 to 7.0.
It shall have the following mechanical analysis:

| Sieve Size: | Passing by weight: |
|---|---|
| 1" | 99–100% |
| ¼" | 97–99% |
| No. 100 mesh | 40–60% |
| No. 200 mesh | 20–40% |

2.2 Water:
A. Necessary for planting and maintenance. Water shall be of satisfactory quality to sustain adequate plant growth and shall not contain harmful, natural or man–made elements detrimental to plants. The Contractor shall provide such satisfactory water from sources off the site at no additional cost. The cost of associated with obtaining and applying water shall be included in the cost of the plant materials. There will be no separate payment for this item.

2.3 Mulch:
A. Shall be Double ground Pinebark Mulch and shall contain no extraneous material.

2.4 Fertilizer:
A. All granular commercial fertilizers shall conform to the applicable state fertilizer laws. It shall be uniform, in completion, dry and free flowing.
B. Fertilizer shall be ten (10 percent Nitrogen, ten (10 percent Phosphorous, ten (10) percent Potassium, and include trace elements. One hundred (100) percent by weight of Nitrogen content of fertilizer shall be derived from organic materials. Fertilizer analysis shall be modified or revised as a result of contractor's soil tests, if required.

2.5 Compost
A. Organic soil amendment material (compost) shall be a blend of composted manure, humus, and well aged pine bark. Materials shall be screened and free from lumps, stones, plant material and debris, free of weed seed and other material harmful to plant life. Soil amendment material shall meet the following chemical analysis:

| | |
|---|---|
| Organic Matter Content | 50–80% |
| pH range | 6.0–8.0 |
| Ammonia Nitrogen | Max. 500 ppm |
| Salt Content (standard pace extract) | Max. 5.0mmchos.cm |
| Carbon/Nitrogen Ration | 15–30 |

2.6 Plant Material
A. Plant species and size shall conform to those indicated on the drawings. All plants shall be freshly dug, free from defect, sound, healthy, vigorous, well–branched, and free of diseases, insects, insect eggs, and larvae, and shall have adequate root systems.
B. All plant material must meet ANSI Z60.1–2004 (or most current edition) standards.
C. Plant material shall be true to species, cultivar, or variety. All plants of the same genus and species shall be the same variety and/or cultivar and color, unless otherwise specifically noted on drawings.
D. Plants shall be obtained from reputable nurseries only.
E. All Federal, State and Local certificates of inspection, as required by law shall accompany the invoice of each shipment of plants.
F. Plants shall not be pruned before delivery.
G. Inspection: Plants shall be subject to inspection and approval for quality, size, and variety; such approval shall not impair the right of inspection and rejection after completion for size and condition of roots, and root balls, latent defects or inefficiencies not meeting ANSI Z60.1–2004, AAN standards.

2.6 Container Grown Stock
A. All container grown material shall be healthy, vigorous, well rooted in the containers which they were sold, as well as free of insects and disease.
B. Plants shall meet ANSI Z60.1–2004 AAN Standards.

2.7 Herbicide
A. Roundup used as specifically directed on label.

Part 3: Execution:

3.1 Planting Season:
A. The preferred planting season for B&B stock shall be between October 15 and March 31.
B. The preferred planting season for container grown nursery stock shall be between September 15 and July 15.
C. Adjust watering schedule based on weather conditions and rainfall.

3.3 Planting Grasses:
A. Over seeding:
1. Till and amend soil to a 3"–6" depth. In heavy soils 20–40% sand shall be incorporated into the soil during tillage.
2. Sow seed with spreader or seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph (8 km/h). Evenly distribute seed by sowing equal quantities in two directions at right angles to each other.
   a. Do not use wet seed or seed that is moldy or otherwise damaged.
   b. Do not seed against existing trees. Limit extent of seed to outside edge of planting saucer.
3. Sow seed at a total rate of 15 lb./1000 sq. ft..
4. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with fine spray.
5. Protect seeded areas with slopes exceeding 3:1 with erosion–control fiber mesh installed and stapled according to manufacturer's written instructions.
6. Protect seeded areas with erosion–control mats where shown, installed and anchored according to manufacturer's written instructions.
7. Protect seeded areas with slopes not exceeding 3:1 by spreading straw mulch. Spread uniformly at a minimum rate of 2 tons/acre to form a continuous blanket 1–1/2 inches in loose depth over seeded areas. Spread by hand, blower, or other suitable equipment. Straw shall be free of weed seeds.
   a. Anchor straw mulch by crimping into soil with suitable mechanical equipment.

3.4 Plant Maintenance:
A. Warranty:
1. Warranty plant material is to remain alive and be in a healthy, vigorous condition for a period of one year after completion of installation.
2. Replace, in accordance with the drawings and specifications, all plants that are dead or are in an unhealthy or unsightly condition, and have lost their natural shape due to dead branched or conditions due to the contractor negligence. Contractor shall bear the cost of complete replacement(s). New material shall be warranted for 1 year from the date of installation.
3. Material and Operations:
   All replacements shall be plants of the same kind and size as specified in the Plant List. They shall furnish planted and mulched as specified under Project Plans and Specifications at no additional cost to the Owner.
4. Warranty shall not include damage or loss of plants or ground covers caused by fires, floods, freezing rains, lighting storms, winds over 75 mph, severe winter conditions not typical of the planting region, and acts of vandalism, or negligence on the part of the owner.
5. In the event the owner does not contract with the Contractor for landscape maintenance, the Contractor shall visits the project site periodically during the one year warranty period to evaluate maintenance procedures being performed by the Owner, and shall notify the owner in writing of maintenance procedure or conditions which threaten vigorous and healthy plant growth. Such site visits shall be conducted at a minimum of once per month for twelve (12) months from the date of final acceptance.

B. Maintenance of Plant Materials:
1. Maintain plantings during installation until final acceptance. .
2. Maintenance shall include pruning per review with the landscape architect or designated certified arborist, cultivating, weeding, watering and application of appropriate insecticides and fungicides necessary to maintain plants free of insects and disease.
   a. Reset settled plants to proper grade and position. Restore planting saucer and adjacent material, and remove dead material.
   b. Correct defective work as soon as possible after deficiencies become apparent and weather and season permit
   c. Water plants and ground cover beds within the first 24 hours of initial planting. Then water plants no less then twice per week until final acceptance when it has not rained over 1" in the past consecutive seven days.
3. Remove and replace shrubs and ground cover found to be dead or in unhealthy condition during the warranty period. Replace trees and shrubs which are in doubtful condition at end of warranty periods unless, in opinion of Landscape Architect, it is advisable to extend warranty period for a full planting season.
4. Maintenance shall also include follow–up, at the end of the warranty period, prior to retainage release as follows:
   a. Remove and renew mulch saucer.

End of Landscape Specification Section

Know what's **below.** **Call** before you dig.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| No. | REVISIONS | DATE | BY |
|---|---|---|---|

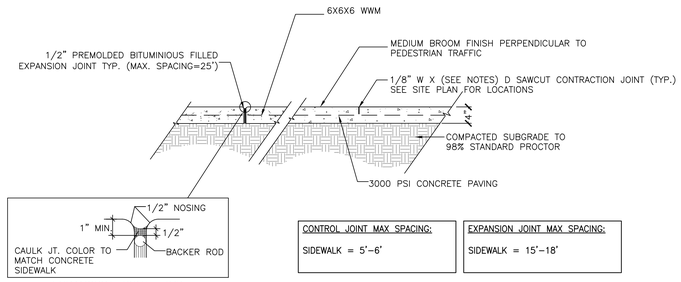
DUNWOODY PERNOSHAL PARK

LANDSCAPE DETAILS

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

GEORGIA REGISTERED No. PE030066 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE 2-13-15

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | L2-03 |

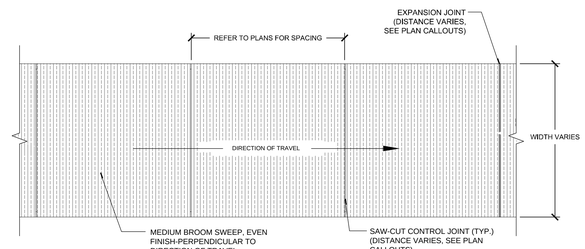


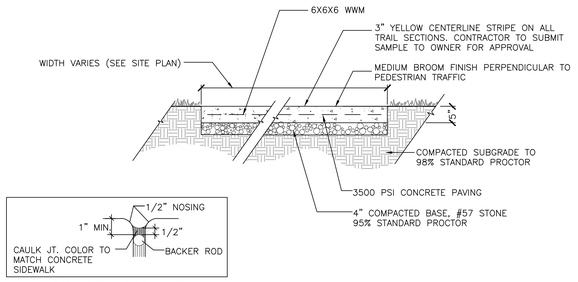

EXPANSION JOINT TYP.
SEE SITE PLAN FOR LOCATION

| CONTROL JOINT MAX SPACING: | EXPANSION JOINT MAX SPACING: |
|---|---|
| SIDEWALK = 5'–6' | SIDEWALK = 15'–18' |

NOTES:
1. CAULK JOINT WITH LITHOSEAL (COLOR TO MATCH CONCRETE COLOR).
2. DEPTH OF THE SAWCUT CONTRACTION JOINT SHALL BE $\frac{1}{4}$" WHEN OUT WITHIN 6 HOURS OF POUR. IF SAWCUTTING OCCURS AFTER 6 HOURS OF POUR, THE DEPTH THE CONTRCTION JOINT SHALL BE 1/3 THE THICKNESS OF CONCRETE

## 1 CONCRETE SIDEWALK
SCALE: NTS

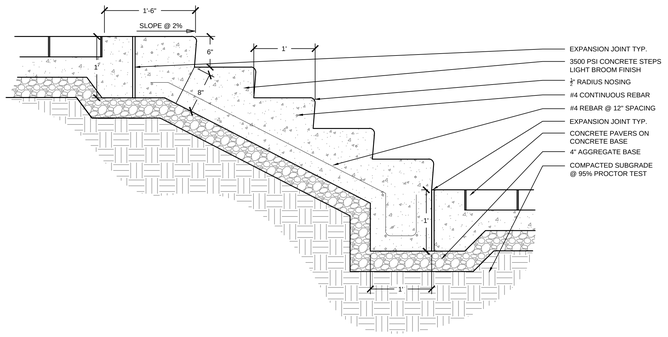


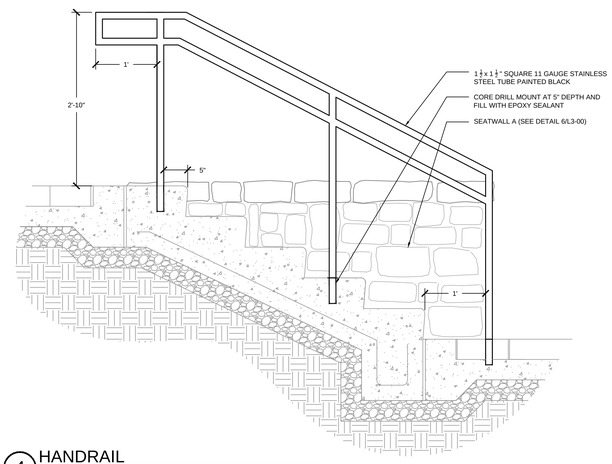

EXPANSION JOINT TYP.
25' MAX SPACING

NOTES:
1. CAULK JOINT WITH LITHOSEAL (COLOR TO MATCH CONCRETE COLOR).
2. DEPTH OF THE SAWCUT CONTRACTION JOINT SHALL BE $\frac{1}{4}$" WHEN OUT WITHIN 6 HOURS OF POUR. IF SAWCUTTING OCCURS AFTER 6 HOURS OF POUR, THE DEPTH THE CONTRCTION JOINT SHALL BE 1/3 THE THICKNESS OF CONCRETE

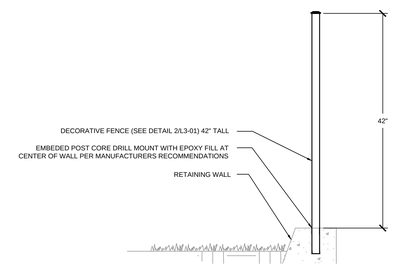
## 2 MULTI-PURPOSE PATH
SCALE: NTS



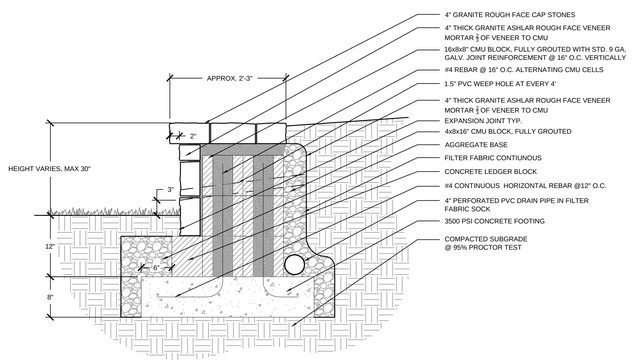

## 3 STAIRS
SCALE: 1"=1'-0"



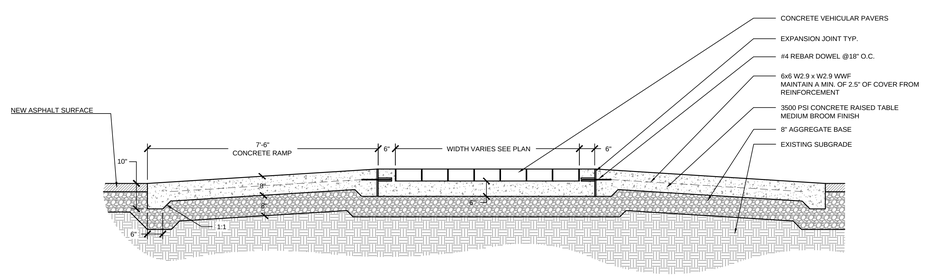

## 4 HANDRAIL
SCALE: 1"=1'-0"




## 5 FALL PROTECTION
SCALE: 1"=1'-0"




## 6 SEATWALL
SCALE: 1"=1'-0"




## 7 RAISED CROSSWALK
SCALE: 1/2"=1'-0"

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DUNWOODY PERNOSHAL PARK

HARDSCAPE DETAILS

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

GEORGIA REGISTERED No. PE038066 PROFESSIONAL ENGINEER BENJAMIN W. SKIMMORE
2-13-15

| | |
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| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | L3-00 |


Drawing name: K:\AMT_LRO\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheet\L3-00_HARDSCAPE DETAILS.dwg L3-00 Feb 25, 2015 11:22am by: rafael.lawrence
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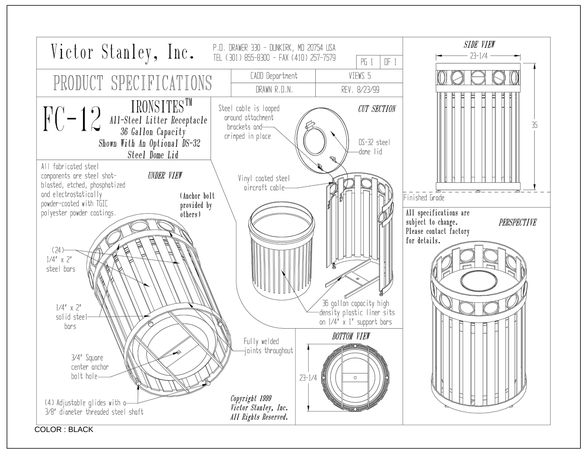
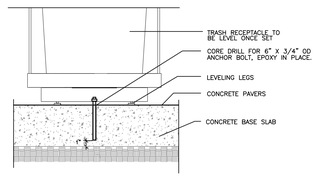
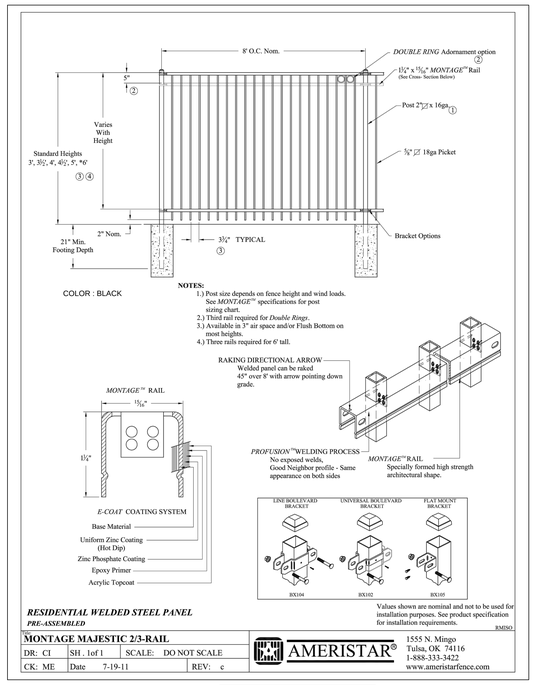



COLOR : BLACK

1 WASTE RECEPTACLE (QTY: 10)
SCALE: NTS

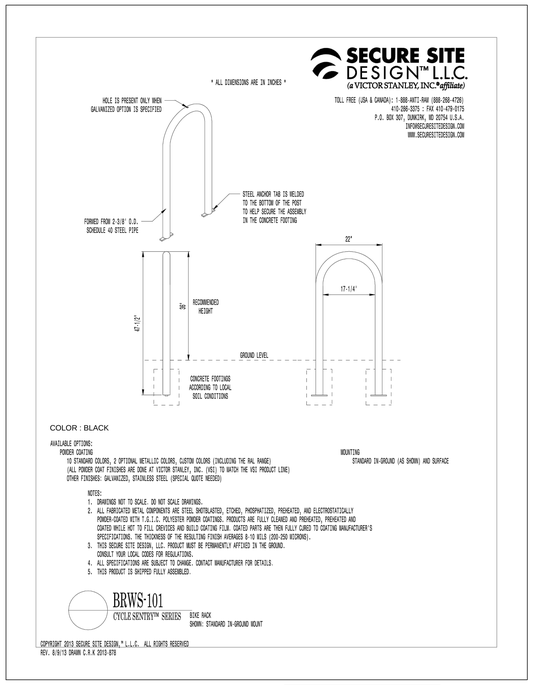



WASTE RECEPTACLE MOUNTING
SCALE: NTS




2 DECORATIVE FENCE
SCALE: NTS

OR APPROVED EQUAL




3 BIKE RACK (IN-GROUND QTY: 5)
SCALE: NTS

OR APPROVED EQUAL

COLOR TO BE SELECTED BY CITY OF DUNWOODY REPRESENTATIVE

4 ADA PAVERS
SCALE: NTS

OR APPROVED EQUAL

COLOR TO BE SELECTED BY CITY OF DUNWOODY REPRESENTATIVE

COLOR TO BE SELECTED BY CITY OF DUNWOODY REPRESENTATIVE

5 SIT-UP/BACK EXTENSION BENCH
SCALE: NTS

OR APPROVED EQUAL

COLOR TO BE SELECTED BY CITY OF DUNWOODY REPRESENTATIVE

6 ELLIPTICAL
SCALE: NTS

OR APPROVED EQUAL

COLOR TO BE SELECTED BY CITY OF DUNWOODY REPRESENTATIVE

7 RECUMBENT CYCLE
SCALE: NTS

OR APPROVED EQUAL

COLOR TO BE SELECTED BY CITY OF DUNWOODY REPRESENTATIVE

8 CHEST PRESS
SCALE: NTS

OR APPROVED EQUAL

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DUNWOODY PERNOSHAL PARK

HARDSCAPE DETAILS

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

GEORGIA REGISTERED No. PE038266 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE 2-13-15

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| SCALE (V): | |
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| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | L3-01 |

Drawing name: K:\AMT_LRO\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\L3-00_HARDSCAPE DETAILS.dwg L3-01 Feb 25, 2015 11:22am by: rafael.lawrence
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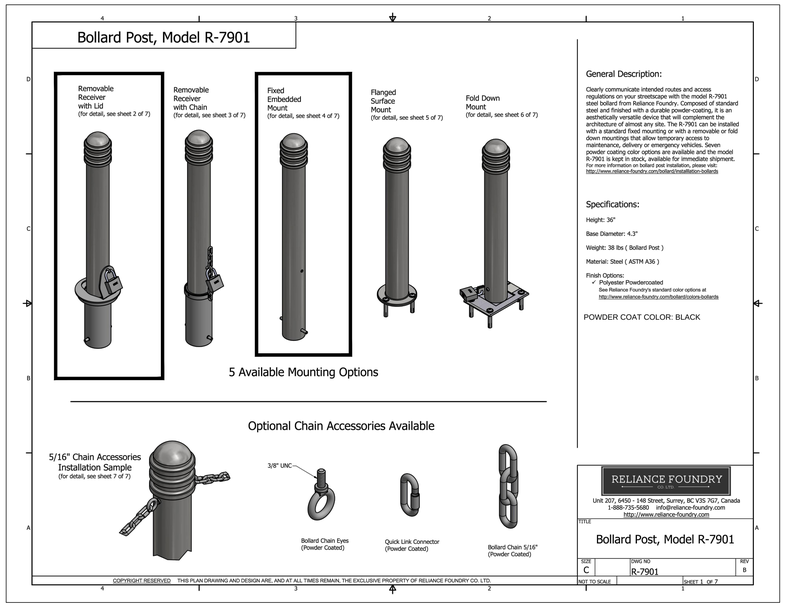
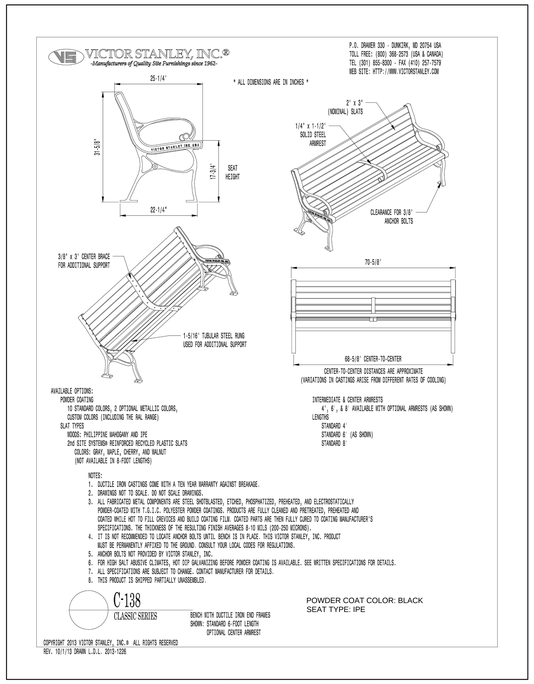
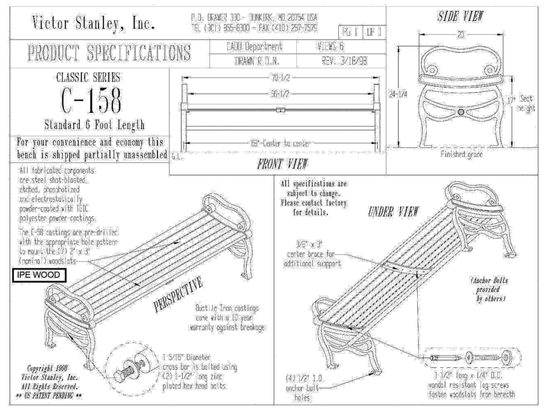



1 BOLLARD (REMOVABLE QTY: 2 , FIXED QTY: 8)
SCALE: NTS




2 BENCH A (QTY:6)
SCALE: NTS

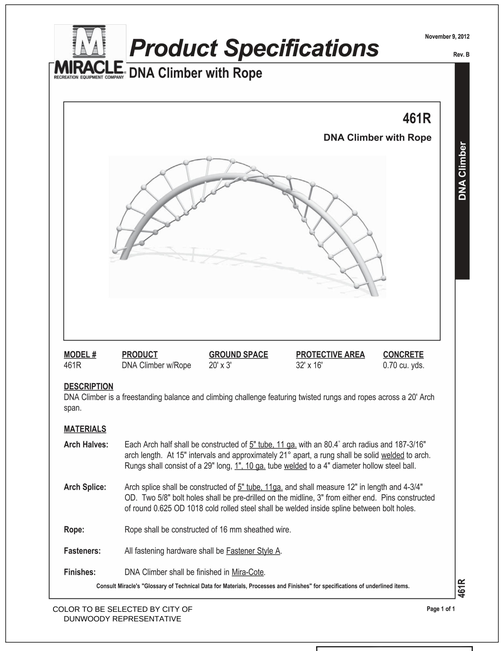
OR APPROVED EQUAL




POWDER COAT COLOR: BLACK
SEAT TYPE: IPE

3 BENCH B (QTY:7)
SCALE: NTS

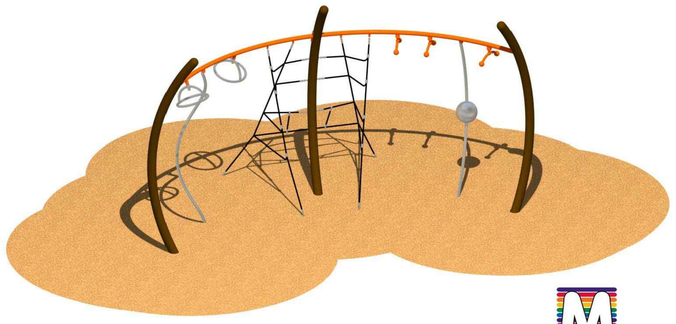
OR APPROVED EQUAL




OR APPROVED EQUAL

4 MIRACLE DNA CLIMBER WITH ROPE (QTY:1)
SCALE: NTS

466-S001



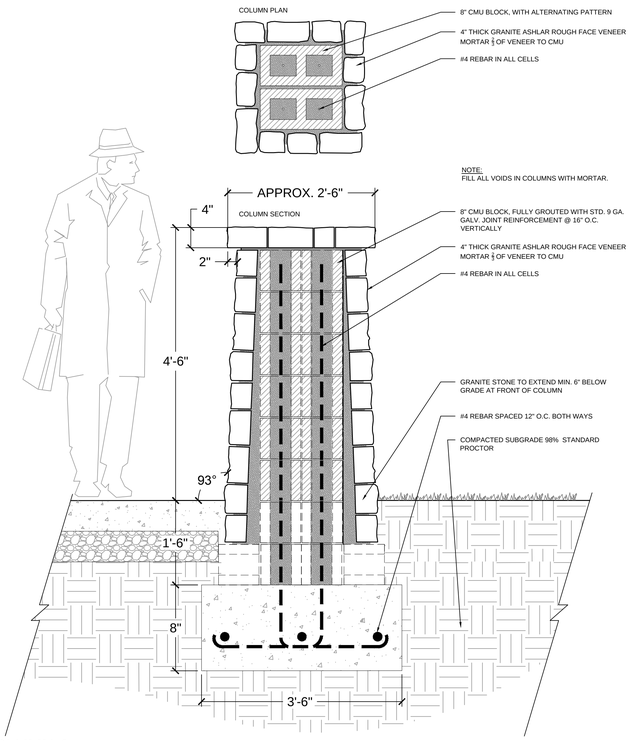
COLOR TO BE SELECTED BY CITY OF DUNWOODY REPRESENTATIVE

MIRACLE RECREATION EQUIPMENT COMPANY

OR APPROVED EQUAL

5 MIRACLE NEXUS 466-S001 (QTY:1)
SCALE: NTS

NOTES:
- CONTRACTOR TO MATCH GRANITE WORK FROM PHASE I
- CONTRACTOR TO PROVIDE A 4'x4' MOCK UP OF GRANITE WORK FOR APPROVAL BY CITY OF DUNWOODY REPRESENTATIVE PRIOR TO CONSTRUCTION.




6 COLUMN A
SCALE: 1"=1'

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DUNWOODY PERNOSHAL PARK

HARDSCAPE DETAILS

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

GEORGIA REGISTERED No. PE026060 PROFESSIONAL ENGINEER BENJAMIN W. SKIDMORE 2-13-15

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| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | L3-02 |

Drawing name: K:\AMT_LIRC\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\L3-00_HARDSCAPE DETAILS.dwg L3-02 Feb 25, 2015 11:22am by: robert.lawrence
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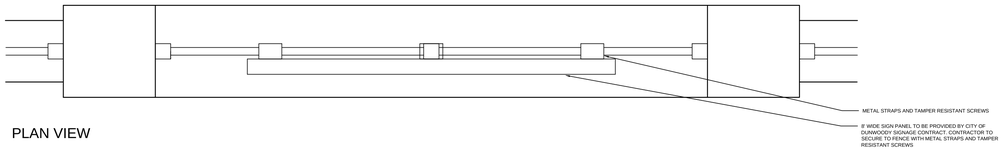
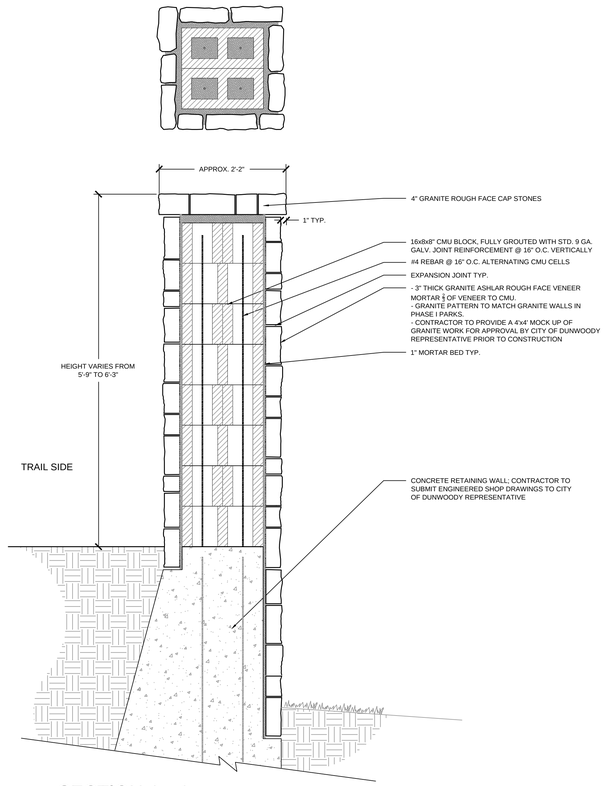



PLAN VIEW

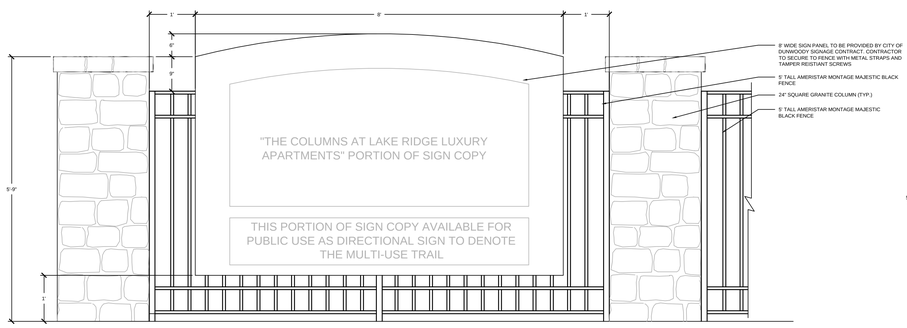
ELEVATION VIEW

1 PROJECT IDENTITY SIGN (1 REQUIRED)
SCALE: 3/4" = 1'-0"

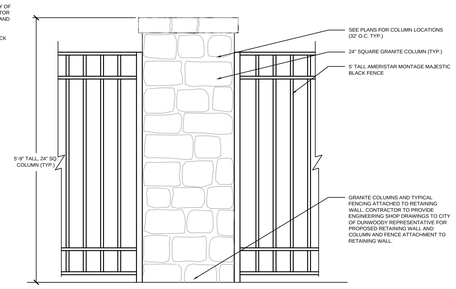



SECTION A - A

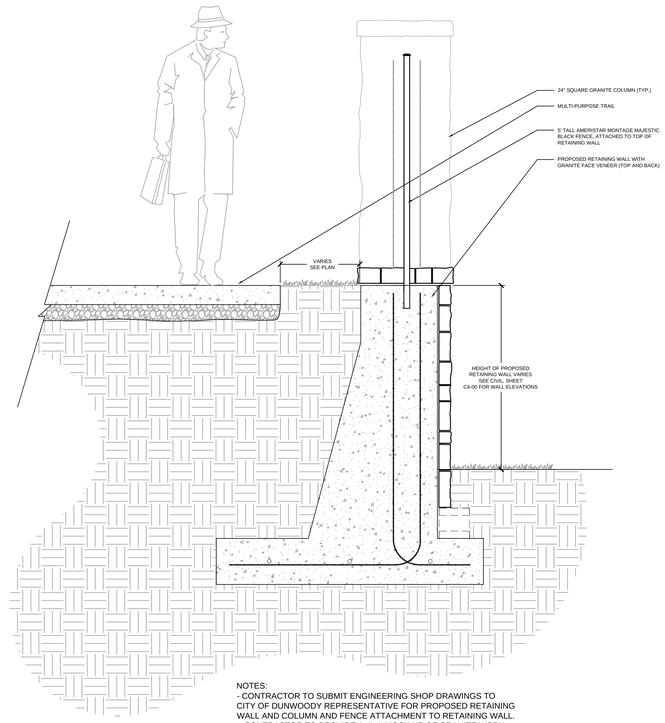
2 COLUMN B
SCALE: 1" = 1'-0"




3 MAIN ENTRY SIGNS (2 REQUIRED)
SCALE: 3/4" = 1'=0"




4 DECORATIVE FENCE AND COLUMN
SCALE: 3/4" = 1'=0"




NOTES:
- CONTRACTOR TO SUBMIT ENGINEERING SHOP DRAWINGS TO CITY OF DUNWOODY REPRESENTATIVE FOR PROPOSED RETAINING WALL AND COLUMN AND FENCE ATTACHMENT TO RETAINING WALL.
- CONTRACTOR TO PROVIDE A 4'x4' MOCK UP OF GRANITE WORK FOR APPROVAL BY CITY OF DUNWOODY REPRESENTATIVE PRIOR TO CONSTRUCTION.

5 DECORATIVE FENCE, COLUMN & RETAINING WALL
SCALE: 3/4" = 1'=0"

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DUNWOODY PERNOSHAL PARK

HARDSCAPE DETAILS

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

GEORGIA REGISTERED No. PE028096 PROFESSIONAL ENGINEER BENJAMIN W. SKUMPIER
2-13-15

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| SCALE (V): | |
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| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | L3-03 |

Drawing name: K:\AMT_LIRC\019124002_Dunwoody Ren 5 Acre Park\CADD\PlanSheets\L3-00_HARDSCAPE DETAILS.dwg L3-03 Feb 25, 2015 11:22am by: rafael.lawrence
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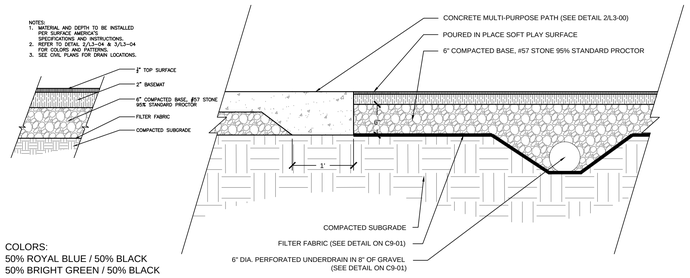
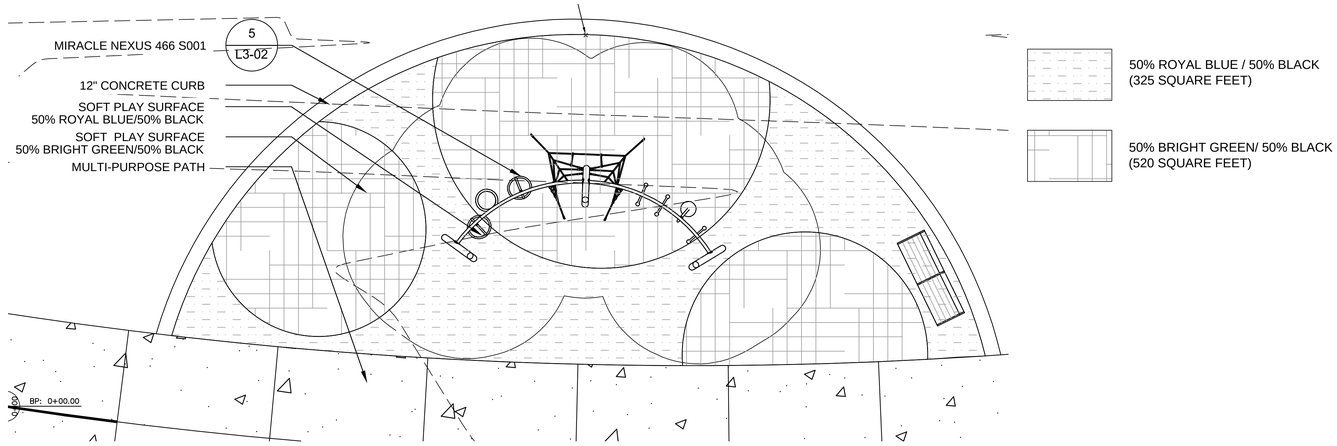
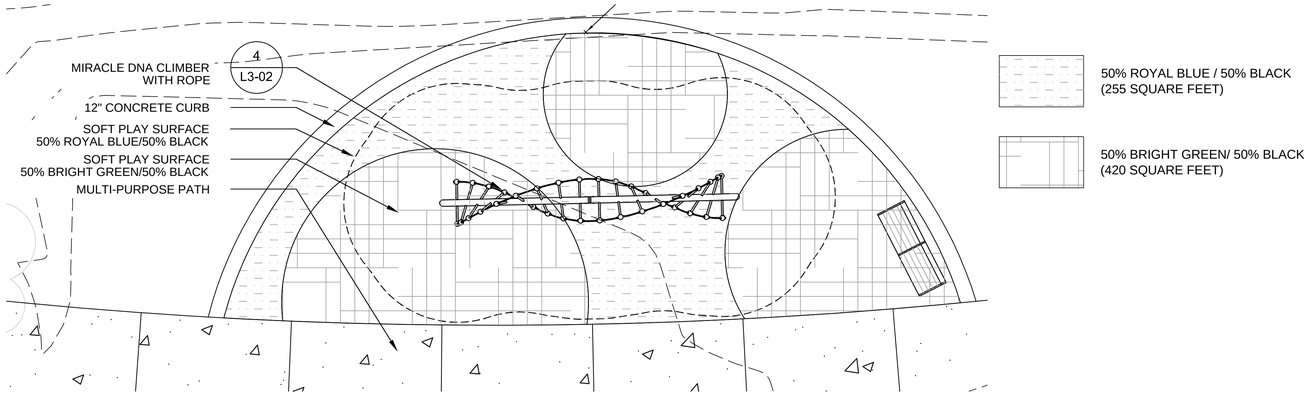


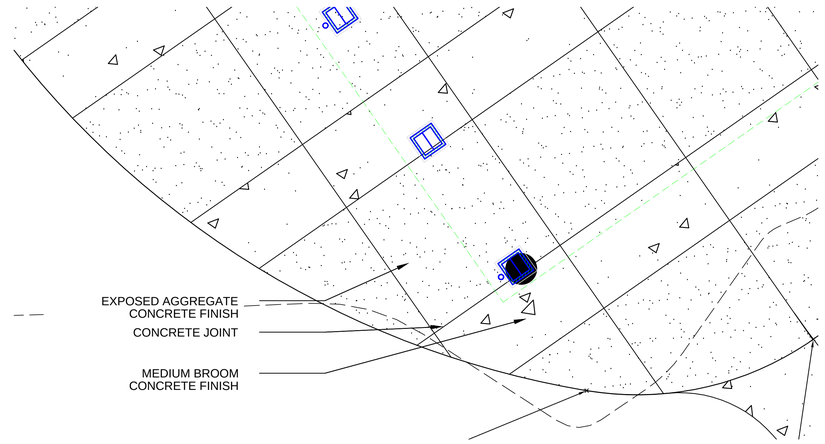

1 SOFT PLAY SURFACE
SCALE: 1" = 1'-0"



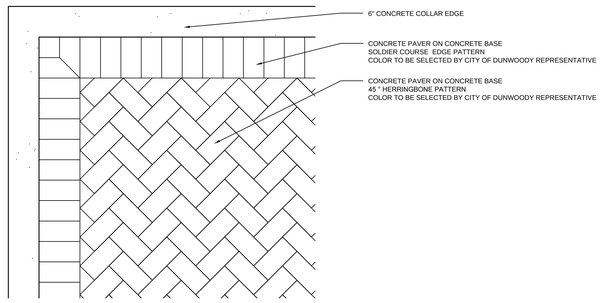

2 WEST PLAY EQUIPMENT SOFT PLAY SURFACE ENLARGEMENT
SCALE: 1/4" = 1'-0"



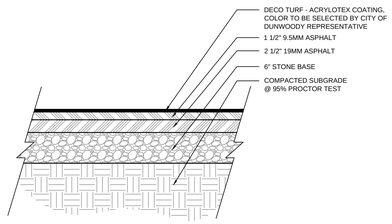

3 EAST PLAY EQUIPMENT SOFT PLAY SURFACE ENLARGEMENT
SCALE: 1/4" = 1'-0"




4 PAVILLON PAVEMENT ENLARGEMENT
SCALE: 1/4" = 1'-0"




4 PLAZA PAVERS
SCALE: 1" = 1'-0"




4 SPORT COURT SURFACE
SCALE: 1" = 1'-0"

MANUFACTURE :PRO DUNK
MODEL: HERCULES PLATINUM BASKETBALL SYSTEM (BBH2100)

OR APPROVED EQUAL

5 FIXTED HEIGHT BASKETBALL SYSTEM (QTY:4)
SCALE: 1" = 1'-0"

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DUNWOODY PERNOSHAL PARK

HARDSCAPE DETAILS

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

GEORGIA REGISTERED No. PE038306 PROFESSIONAL ENGINEER BENJAMIN W. SKUMPIER
2-13-15

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | RS/RL |
| DRAWN BY: | AL/ZR |
| CHECKED BY: | RS/BS |
| DATE: | 09/19/2014 |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | L3-04 |

Drawing name: K:\AMT_LRC\019124002_Dunwoody Pen 5 Acre Park\CADD\PlanSheets\L3-00_HARDSCAPE DETAILS.dwg L3-04 Feb 25, 2015 11:23am by: rafael.lawrence
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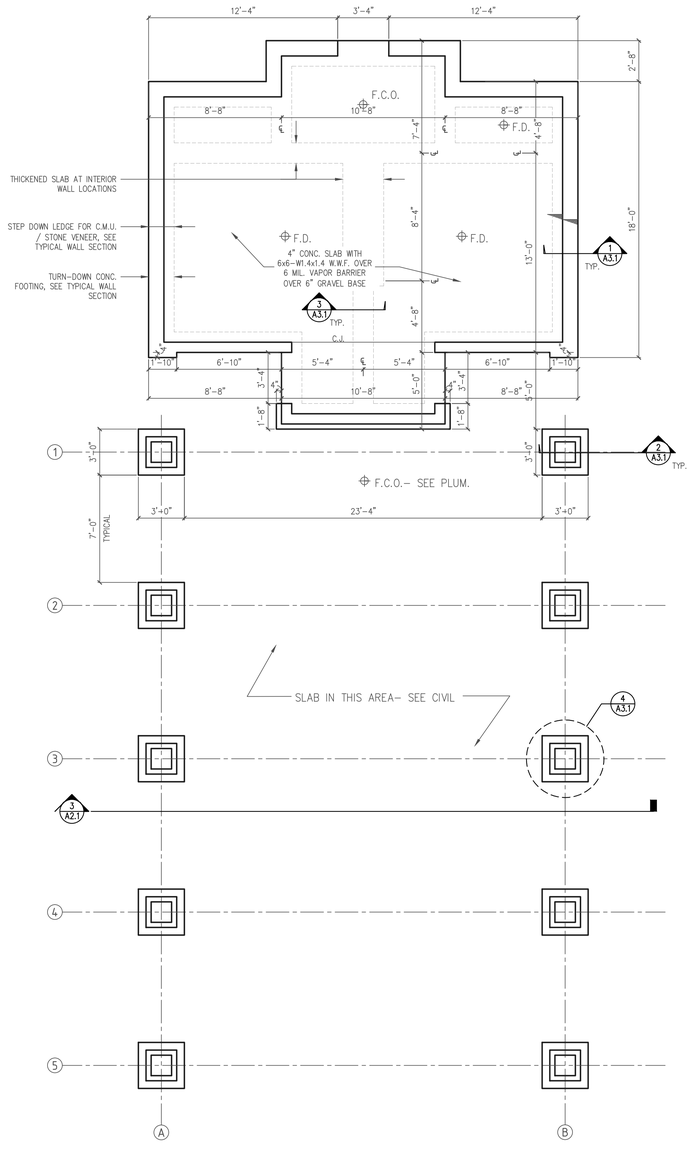
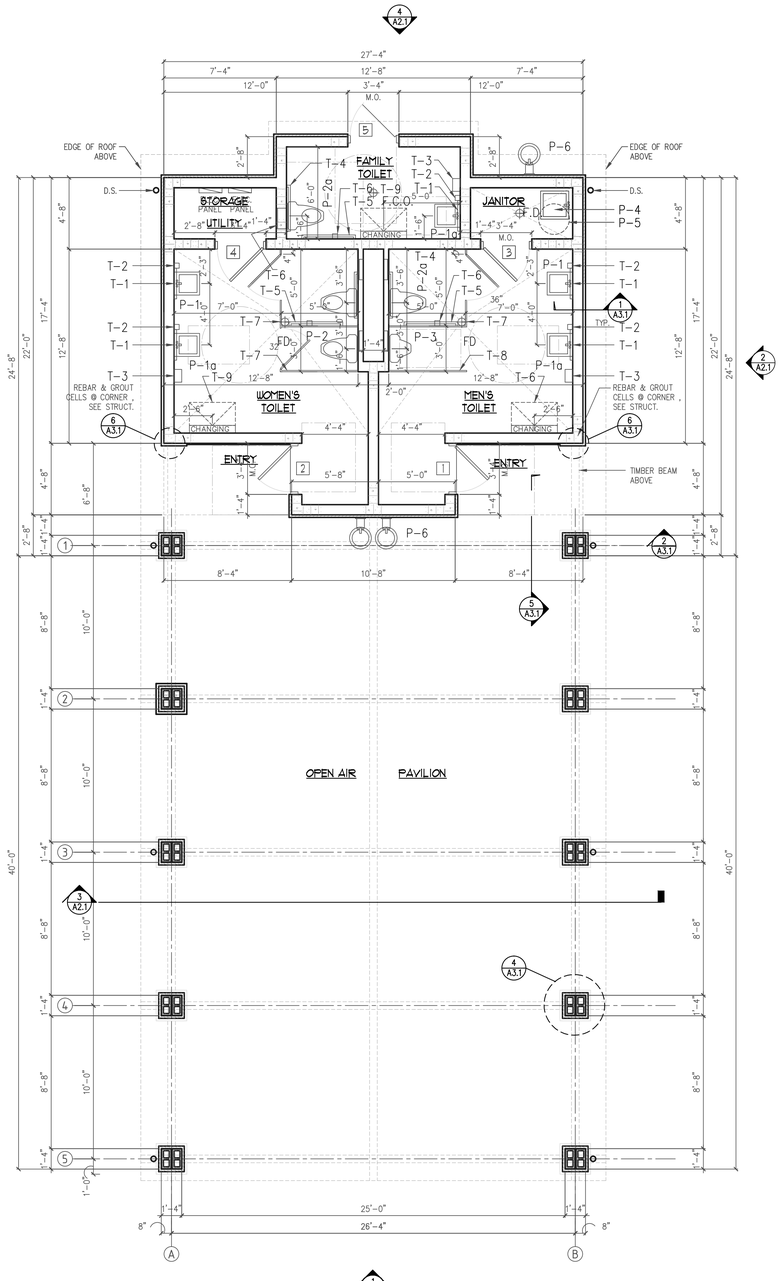



2 A1.1 RESTROOM BUILDING SLAB PLAN
1/4" = 1'-0"




1 A1.1 RESTROOM BUILDING FLOOR PLAN
1/4" = 1'-0"

## SYMBOLS

KEY NOTE — DOOR No. — WINDOW No. — PARTITION TYPE — SECTION CUT (DETAIL / SHEET) — ELEVATION

## PARTITION TYPES

- EXTERIOR WALL: REINFORCED 8" C.M.U. WALL WITH APPLIED STONE VENEER, (PAINT INTERIOR), SEE WALL SECTION ( 1/A3.1 )
- INTERIOR WALL: REINFORCED 8" C.M.U. WALL (PAINT INTERIOR), SEE DETAIL ( 3/A3.1 )
- PIER: REINFORCED 16" SQUARE 8" C.M.U. PIER WITH APPLIED TAPERED STONE VENEER (2" TOTAL TAPER), SEE DETAIL ( 4/A3.1 )
- INDICATES THE CODE REQUIRED TURN-A-ROUND SPACE AND CLEAR FLOOR SPACE FOR ACCESSIBLE FIXTURES AND DOORS.

## TOILET FIXTURES

| | |
|---|---|
| P-1a | WALL HUNG SINK (ACCESSIBLE) |
| P-1b | WALL HUNG SINK (STANDARD) |
| P-2a | FLOOR MOUNTED FLUSH VALUE WATER CLOSET (ACCESSIBLE) |
| P-2b | FLOOR MOUNTED FLUSH VALUE WATER CLOSET (STANDARD) |
| P-3 | WALL HUNG URINAL (ACCESSIBLE) |
| P-4 | JANITOR'S MOP SINK |
| P-5 | WATER HEATER ON WALL MOUNTED PLATFORM |
| P-6 | DRINKING FOUNTAIN |

## TOILET ACCESSORIES

| | |
|---|---|
| T-1 | WALL MOUNTED FRAMED MIRROR (24" X 36") |
| T-2 | WALL MOUNTED LIQUID SOAP DISPENSER (OWNER PROVIDED) |
| T-3 | WALL MOUNTED HAND DRYER (OWNER PROVIDED) |
| T-4 | WALL / PARTITION MOUNTED GRAB BAR (36") |
| T-5 | WALL / PARTITION MOUNTED GRAB BAR (42") |
| T-6 | WALL / PARTITION MOUNTED TOILET PAPER DISPENSER |
| T-7 | WALL / FLOOR MOUNTED URINAL TOILET PARTITON |
| T-8 | WALL / FLOOR MOUNTED URINAL PARTITION |
| T-9 | WALL MOUNTED BABY CHANGING STATION |

NOTE: ATTIC AREAS TO HAVE VENTILATION AREA EQUAL TO MIN. 1/150 TOTAL ATTIC AREA. PROVIDE SOFFIT AND GABLE VENTS.

## CEILING LEGEND

- SURFACE MOUNTED SINGLE BULB 4' FLOURESCENT LIGHT FIXRURE
- WALL MOUNTED SECURITY LIGHT (ALL CONNECTED TO DAYLIGHT SENSOR CONTROL)
- RECESSED EXTERIOR CAN LIGHT (ALL CONNECTED TO DAYLIGHT SENSOR CONTROL)
- PLYWOOD CEILING APPLIED TO UNDERSIDE OF ROOF TRUSSES
- BEAD BOARD CEILING APPLIED TO UNDERSIDE OF ROOF TRUSSES

## DOOR SCHEDULE

| No. | SIZE | SIZE | TYPE | FRAME | REMARKS |
|---|---|---|---|---|---|
| 1 | 3'-0" x 7'-0" | MEN'S TOILET | H.M. | H.M. | |
| 2 | 3'-0" x 7'-0" | WOMEN'S TOILET | H.M. | H.M. | |
| 3 | 3'-0" x 7'-0" | JANITOR | H.M. | H.M. | |
| 4 | 3'-0" x 7'-0" | STORAGE | H.M. | H.M. | |
| 5 | 3'-0" x 7'-0" | FAMILY TOILET | H.M. | H.M. | |

KACENA DESIGN

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|---|---|---|---|

DUNWOODY RENAISSANCE PARKS PHASE II

RESTROOM FLOOR PLAN & SLAB PLAN

DUNWOODY COMMUNITY DEVELOPMENT

41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

STATE OF GEORGIA — REGISTERED ARCHITECT

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | XXX |
| DRAWN BY: | XXX |
| CHECKED BY: | XXX |
| DATE: | XX/XX/XXXX |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | A1.1 |

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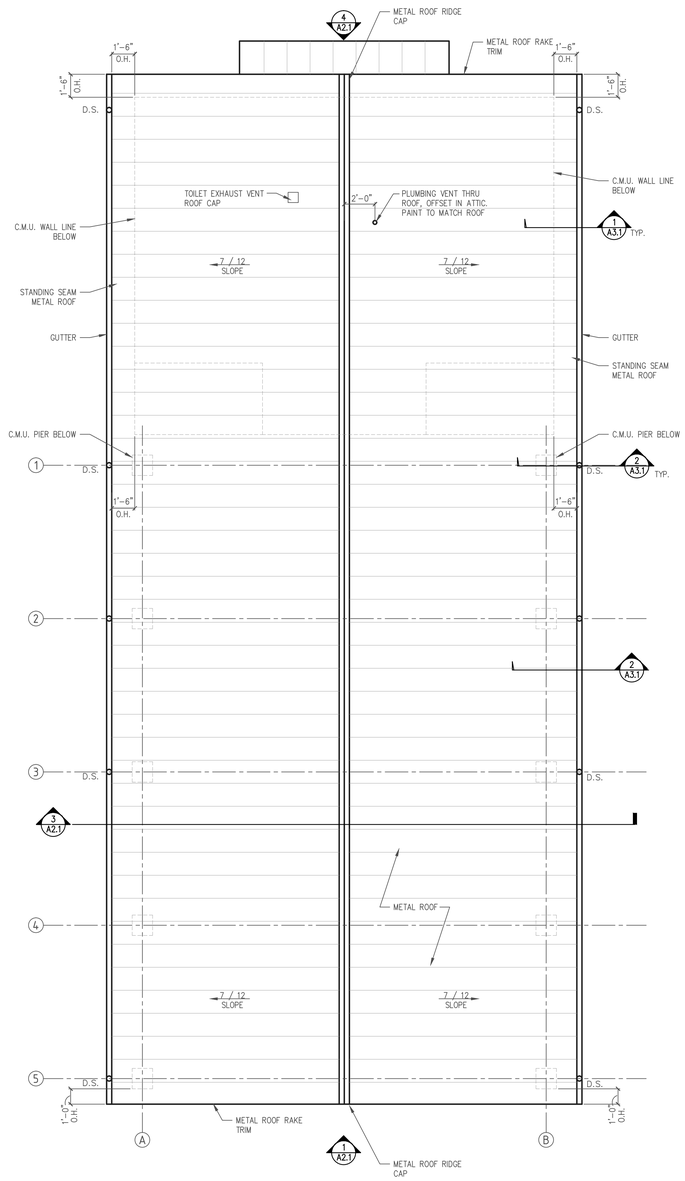
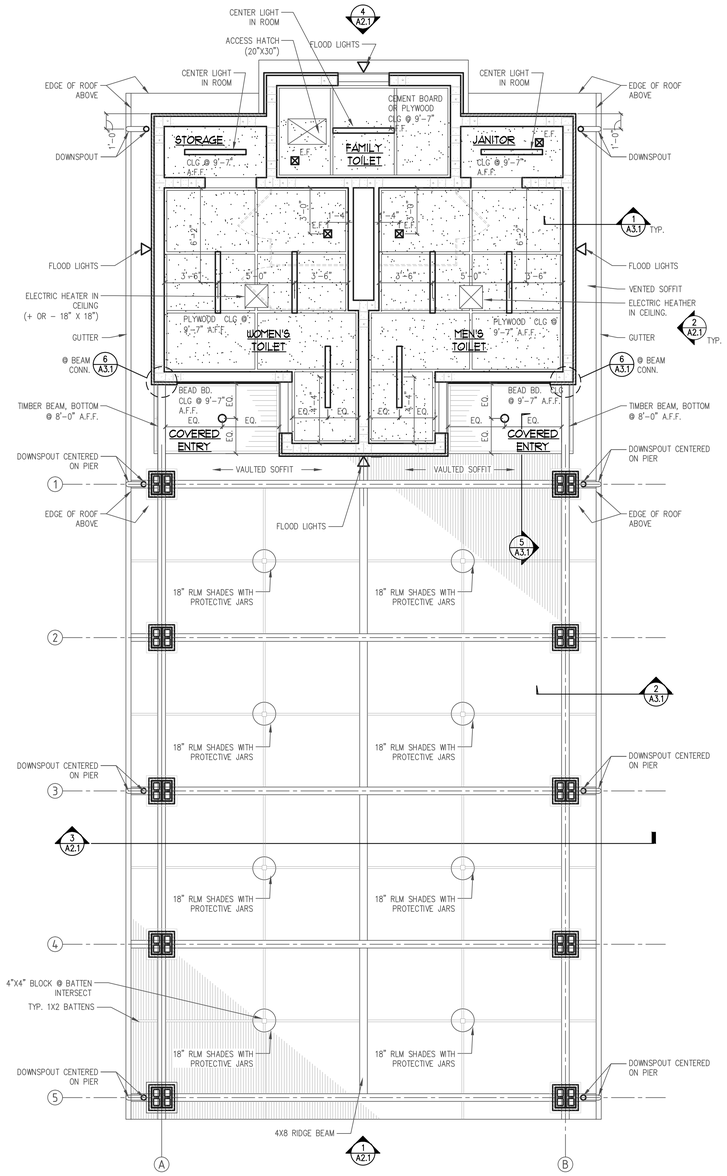



## 2 A1.2 RESTROOM BUILDING ROOF PLAN

1/4" = 1'-0"

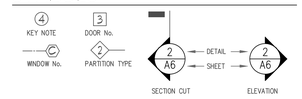



## 1 A1.2 RESTROOM BUILDING RCP

1/4" = 1'-0"

NOTE: SOFFIT AND GABLE ATTIC VENTILATION EQUAL TO $\frac{1}{150}$ TOTAL ATTIC AREA

## SYMBOLS




## PARTITION TYPES

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| P-1a | WALL HUNG SINK (ACCESSIBLE) |
| P-1b | WALL HUNG SINK (STANDARD) |
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| P-4 | JANITOR'S MOP SINK |
| P-5 | WATER HEATER ON WALL MOUNTED PLATFORM |
| P-6 | DRINKING FOUNTAIN |

## TOILET ACCESSORIES

| | |
|---|---|
| T-1 | WALL MOUNTED FRAMED MIRROR (24" X 36") |
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| T-3 | WALL MOUNTED HAND DRYER (OWNER PROVIDED) |
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| T-5 | WALL / PARTITION MOUNTED GRAB BAR (42") |
| T-6 | WALL / PARTITION MOUNTED TOILET PAPER DISPENSER |
| T-7 | WALL / FLOOR MOUNTED URINAL TOILET PARTITON |
| T-8 | WALL / FLOOR MOUNTED URINAL PARTITION |
| T-9 | WALL MOUNTED BABY CHANGING STATION |

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## CEILING LEGEND

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| 5 | 3'-0" x 7'-0" | FAMILY TOILET | H.M. | H.M. | |

KACENA DESIGN

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| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY RENAISSANCE PARKS
PHASE II

RESTROOM RP & ROOF PLAN

DUNWOODY COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

STATE OF GEORGIA
REGISTERED ARCHITECT

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | XXX |
| DRAWN BY: | XXX |
| CHECKED BY: | XXX |
| DATE: | XX/XX/XXXX |
| KHA PROJECT NO.: 019124002 | |
| SHEET NUMBER | A1.2 |

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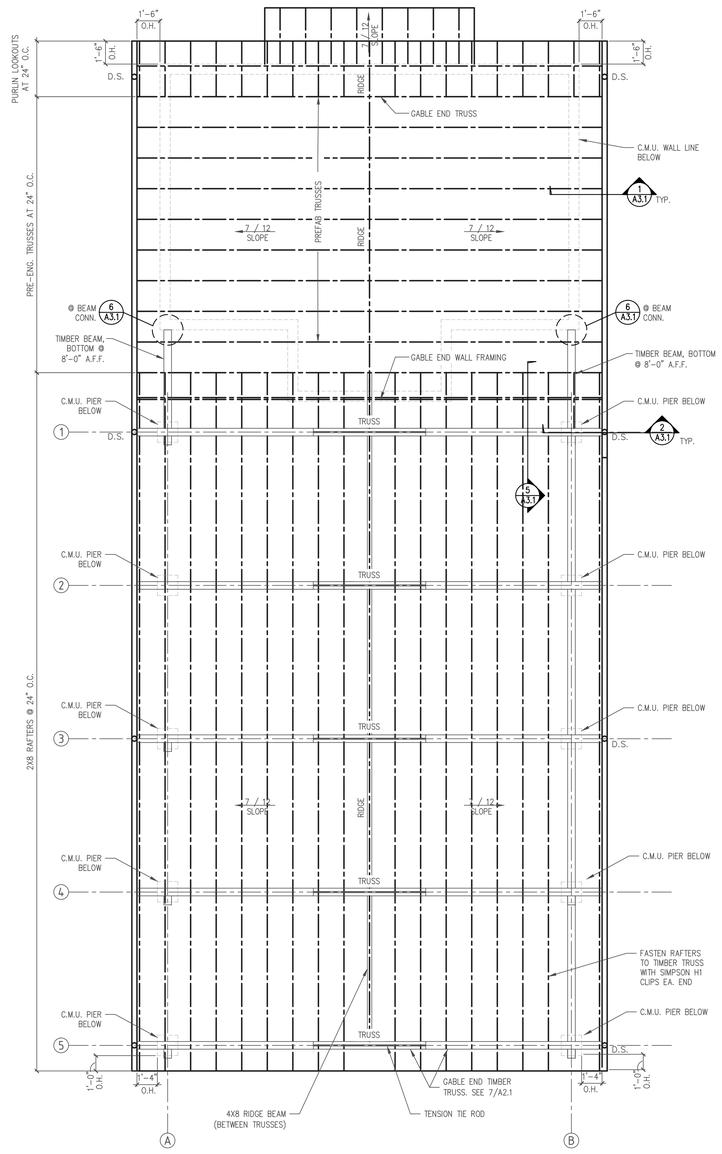


## DESIGN CRITERIA

## SYMBOLS

KEY NOTE — DOOR No. — WINDOW No. — PARTITION TYPE — SECTION CUT (2 / A6) — DETAIL — SHEET — ELEVATION (2 / A6)

## PARTITION TYPES

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INTERIOR WALL: REINFORCED 8" C.M.U. WALL (PAINT INTERIOR), SEE DETAIL ( 3/A3.1 )

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SURFACE MOUNTED SINGLE BULB 4' FLOURESCENT LIGHT FIXRURE

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|---|---|---|---|---|---|
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| 2 | 3'-0" x 7'-0" | WOMEN'S TOILET | H.M. | H.M. | |
| 3 | 3'-0" x 7'-0" | JANITOR | H.M. | H.M. | |
| 4 | 3'-0" x 7'-0" | STORAGE | H.M. | H.M. | |
| 5 | 3'-0" x 7'-0" | FAMILY TOILET | H.M. | H.M. | |

KACENA DESIGN

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DUNWOODY RENAISSANCE PARKS
PHASE II

RESTROOM BUILDING
ROOF PLAN

DUNWOODY
COMMUNITY DEVELOPMENT

41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

STATE OF GEORGIA — REGISTERED ARCHITECT

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | XXX |
| DRAWN BY: | XXX |
| CHECKED BY: | XXX |
| DATE: | XX/XX/XXXX |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | A1.3 |

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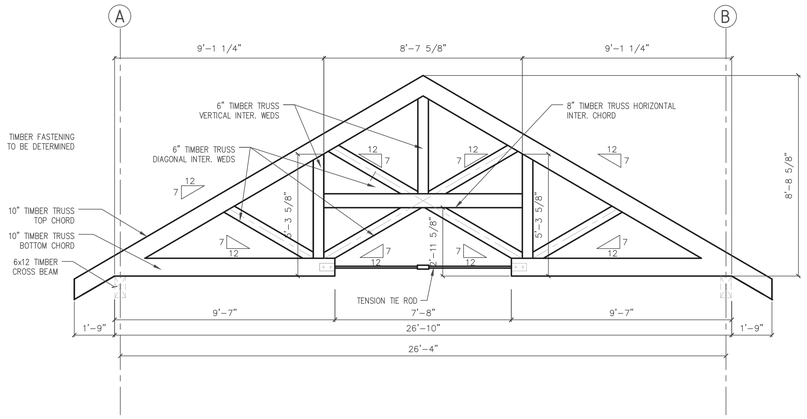
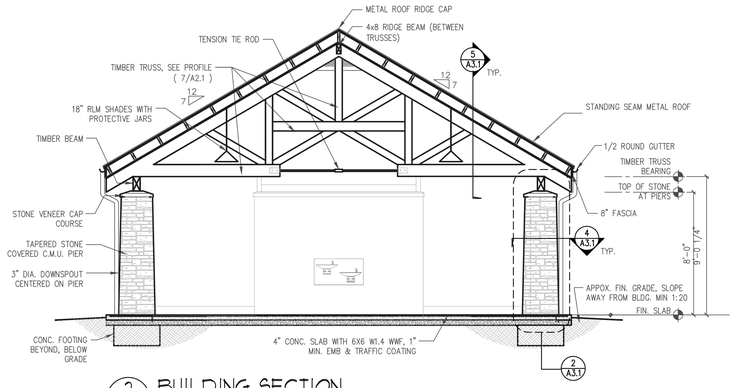


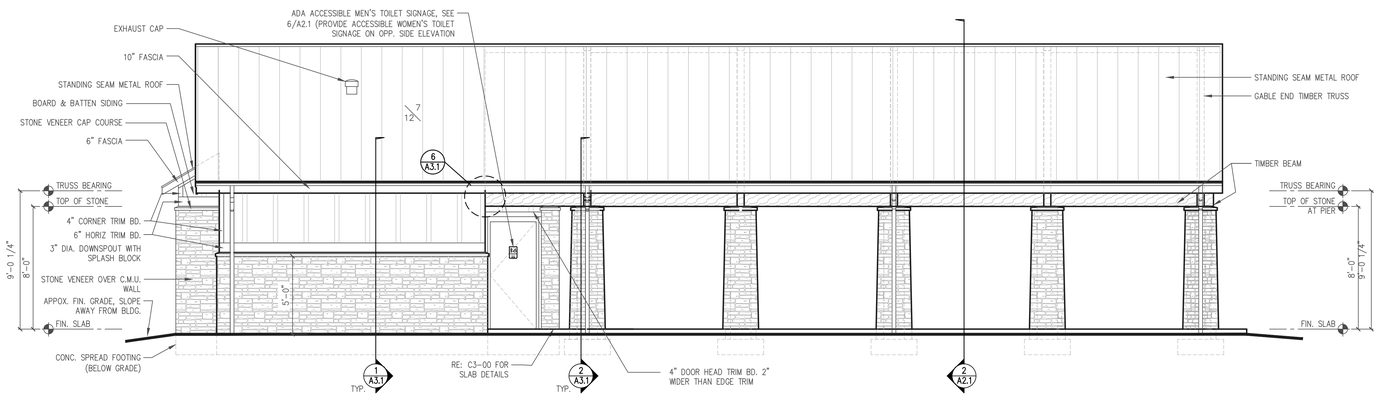

7 A2.1 TIMBER TRUSS PROFILE
3/8" = 1'-0"



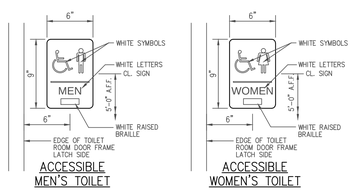

2 A2.1 BUILDING SECTION
1/4" = 1'-0"

## ELEVATION NOTES

1. ALL SIDING TO BE FIBER CEMENT, HARDIE PLANK OR EQUAL. 3 1/2" BATTENS AT 24' O.C.
2. ALL FASCIA AND TRIM BOARDS TO BE FIBER CEMENT, HARDIE PLANK OR EQUAL IN NOMINAL SIZES INDICATED.
3. ALL SOFFITS TO BE FIBER CEMENT PANELS, HARDIE PLANK OR EQUAL WITH CONT. 2" WIDE SOFFIT VENT.




5 A2.1 RESTROOM BUILDING SIDE ELEVATION
1/4" = 1'-0"
(OPPOSITE SIDE SIM)

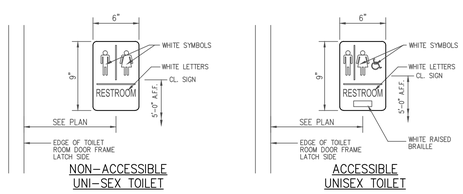



ACCESSIBLE MEN'S TOILET

ACCESSIBLE WOMEN'S TOILET

NOTES

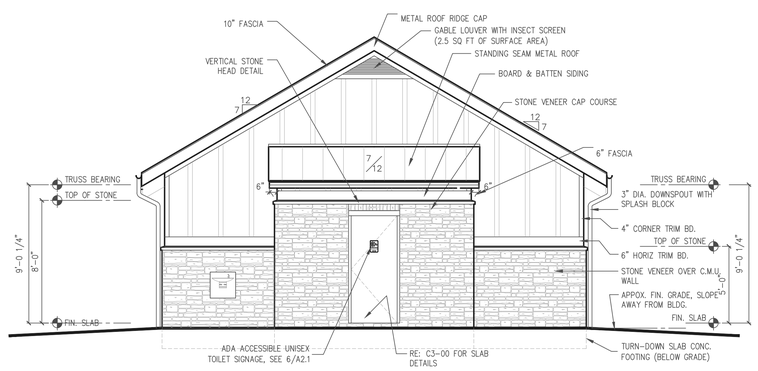
- SIGN SHALL BE ERECTED AT LATCH SIDE OF DOOR OR NEAREST ADJACENT WALL.
- GRAPHICS ON SIGN SHALL COMPLY WITH STATE OF GEORGIA ACCESSIBILITY CODE 120-3-20-.41
- LETTERS SHALL BE 1" (MIN.) HIGH AND RAISED 1/32" (MIN.)
- LETTERS AND HANDICAP SYMBOL SHALL BE WHITE.
- BRAILLE SHALL BE GRADE 2 AND RAISED 1/32" (MIN.)



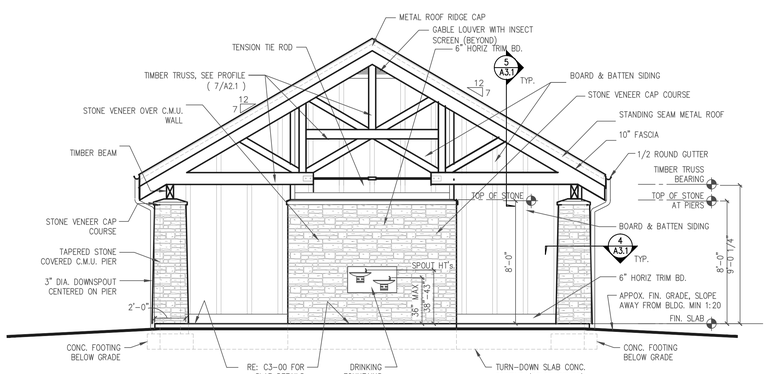

NON-ACCESSIBLE UNI-SEX TOILET

ACCESSIBLE UNISEX TOILET

6 A2.1 RESTROOM SIGNAGE DETAIL
1/4" = 1'-0"




4 A2.1 RESTROOM BUILDING REAR ELEVATION
1/4" = 1'-0"




1 A2.1 RESTROOM BUILDING FRONT ELEVATION
1/4" = 1'-0"

KACENA DESIGN

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ATLANTA, GEORGIA 30308-1121
PHONE (770) 419-8700
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| No. | REVISIONS | DATE | BY |
|---|---|---|---|

DUNWOODY RENAISSANCE PARKS PHASE II

LARGE RESTROOM BUILDING: ELEVATIONS

DUNWOODY COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

STATE OF GEORGIA
REGISTERED
10-10-19
CERTIFICATE NO.
REGISTERED ARCHITECT

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | XXX |
| DRAWN BY: | XXX |
| CHECKED BY: | XXX |
| DATE: | XX/XX/XXXX |
| KHA PROJECT NO.: | 019124002 |
| SHEET NUMBER | A2.1 |

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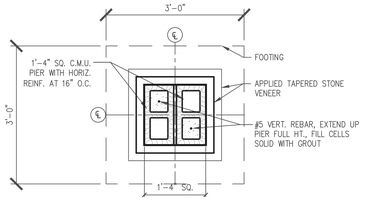
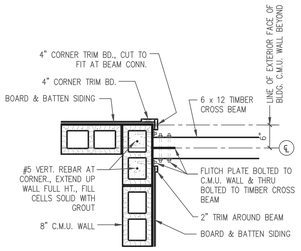
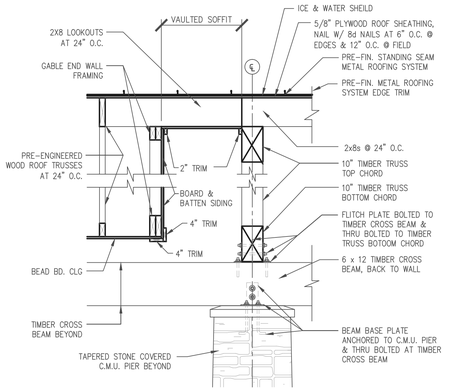


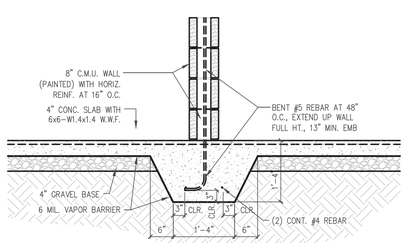

4 A3.1 TYPICAL PIER PLAN
3/4" = 1'-0"



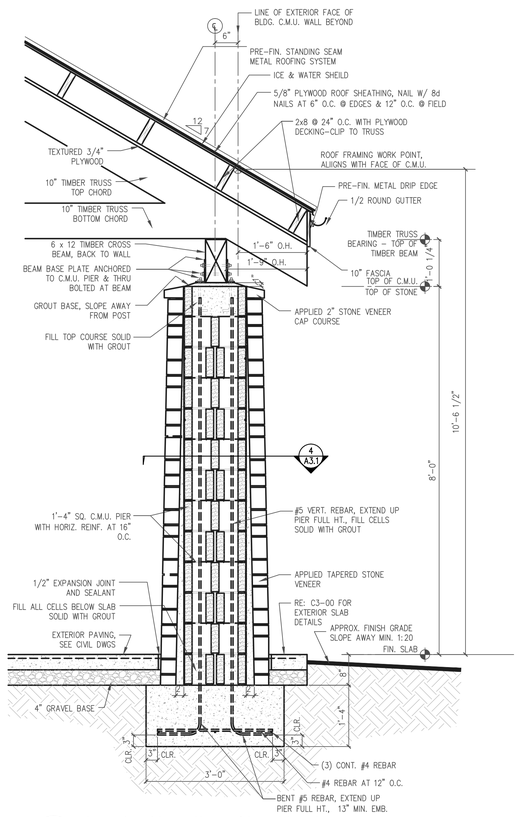

6 A3.1 TIMBER BEAM CONN DETAIL
3/4" = 1'-0"



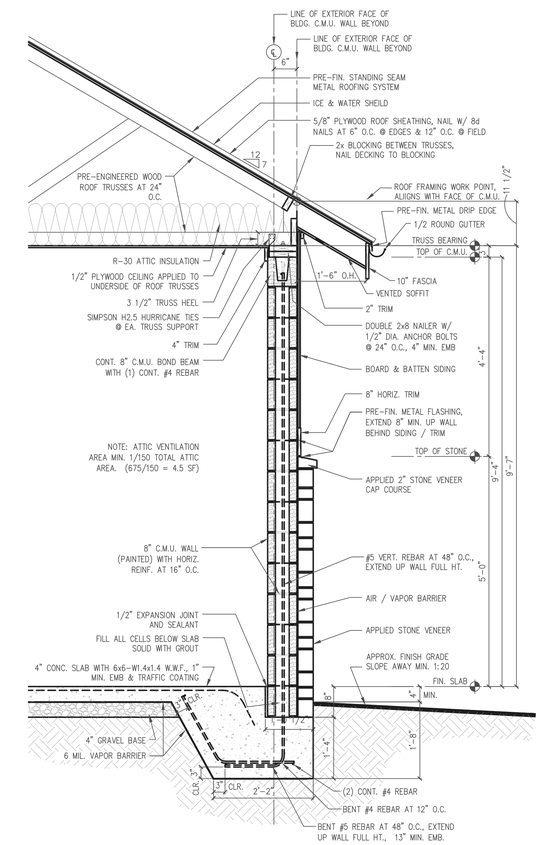

5 A3.1 PORCH CEILING DETAIL
3/4" = 1'-0"




3 A3.1 THICKENED SLAB DETAIL
3/4" = 1'-0"




2 A3.1 TYPICAL PIER SECTION
3/4" = 1'-0"




1 A3.1 RESTROOM BUILDING TYPICAL WALL SECTION
3/4" = 1'-0"

KACENA DESIGN

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DUNWOODY RENAISSANCE PARKS
PHASE II

LARGE RESTROOM BUILDING:
SECTIONS & DETAILS

DUNWOODY
COMMUNITY DEVELOPMENT

41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

STATE OF GEORGIA
RENAISSANCE PARKS PHASE II
16-UP-1870
CERTIFICATE NO. 5
REGISTERED ARCHITECT

| | |
|---|---|
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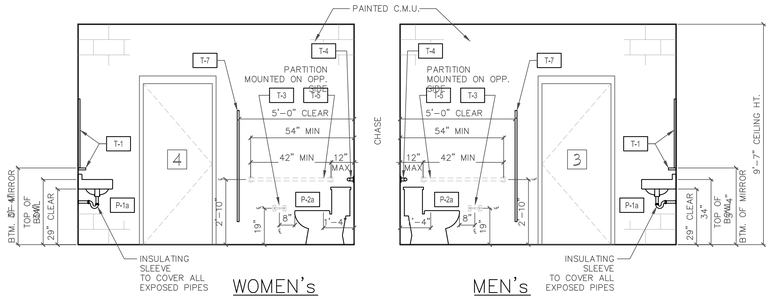
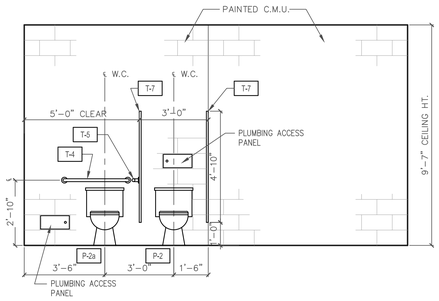
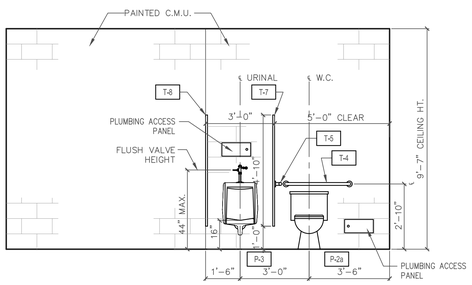


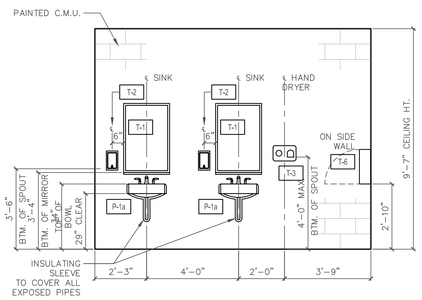

6 A3.2 INTERIOR ELEVATION - SIDE WALL
3/8" = 1'-0"




5 A3.2 INTERIOR ELEVATION - WOMEN'S TOILET
3/8" = 1'-0"

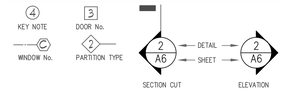



4 A3.2 INTERIOR ELEVATION - MEN'S TOILET
3/8" = 1'-0"




3 A3.2 INTERIOR ELEVATION - TYP. SINK WALL
3/8" = 1'-0"

## SYMBOLS




## PARTITION TYPES

- EXTERIOR WALL: REINFORCED 8" C.M.U. WALL WITH APPLIED STONE VENEER, (PAINT INTERIOR), SEE WALL SECTION ( 1/A3.1 )
- INTERIOR WALL: REINFORCED 8" C.M.U. WALL (PAINT INTERIOR), SEE DETAIL ( 3/A3.1 )
- PIER: REINFORCED 16" SQUARE 8" C.M.U. PIER WITH APPLIED TAPERED STONE VENEER (2" TOTAL TAPER), SEE DETAIL ( 4/A3.1 )
- INDICATES THE CODE REQUIRED TURN-A-ROUND SPACE AND CLEAR FLOOR SPACE FOR ACCESSIBLE FIXTURES AND DOORS.

## TOILET FIXTURES

| | |
|---|---|
| P-1a | WALL HUNG SINK (ACCESSIBLE) |
| P-1b | WALL HUNG SINK (STANDARD) |
| P-2a | FLOOR MOUNTED FLUSH VALUE WATER CLOSET (ACCESSIBLE) |
| P-2b | FLOOR MOUNTED FLUSH VALUE WATER CLOSET (STANDARD) |
| P-3 | WALL HUNG URINAL (ACCESSIBLE) |
| P-4 | JANITOR'S MOP SINK |
| P-5 | WATER HEATER ON WALL MOUNTED PLATFORM |

## TOILET ACCESSORIES

| | |
|---|---|
| T-1 | WALL MOUNTED FRAMED MIRROR (24" X 36") |
| T-2 | WALL MOUNTED LIQUID SOAP DISPENSER (OWNER PROVIDED) |
| T-3 | WALL MOUNTED HAND DRYER (OWNER PROVIDED) |
| T-4 | WALL / PARTITION MOUNTED GRAB BAR (36") |
| T-5 | WALL / PARTITION MOUNTED GRAB BAR (42") |
| T-6 | WALL / PARTITION MOUNTED TOILET PAPER DISPENSER |
| T-7 | WALL / FLOOR MOUNTED URINAL TOILET PARTITION |
| T-8 | WALL / FLOOR MOUNTED URINAL PARTITION |
| T-9 | WALL MOUNTED BABY CHANGING STATION |

NOTE: ATTIC AREAS TO HAVE VENTILATION AREA EQUAL TO MIN. 1/150 TOTAL ATTIC AREA. PROVIDE SOFFIT AND GABLE VENTS.

## CEILING LEGEND

- SURFACE MOUNTED SINGLE BULB 4' FLOURESCENT LIGHT FIXRURE
- WALL MOUNTED SECURITY LIGHT (ALL CONNECTED TO DAYLIGHT SENSOR CONTROL)
- RECESSED EXTERIOR CAN LIGHT (ALL CONNECTED TO DAYLIGHT SENSOR CONTROL)
- PLYWOOD CEILING APPLIED TO UNDERSIDE OF ROOF TRUSSES
- BEAD BOARD CEILING APPLIED TO UNDERSIDE OF ROOF TRUSSES

## DOOR SCHEDULE

| No. | SIZE | SIZE | TYPE | FRAME | REMARKS |
|---|---|---|---|---|---|
| 1 | 3'-0" x 7'-0" | MEN'S TOILET | H.M. | H.M. | |
| 2 | 3'-0" x 7'-0" | WOMEN'S TOILET | H.M. | H.M. | |
| 3 | 3'-0" x 7'-0" | JANITOR | H.M. | H.M. | |
| 4 | 3'-0" x 7'-0" | STORAGE | H.M. | H.M. | |
| 5 | 3'-0" x 7'-0" | FAMILY TOILET | H.M. | H.M. | |

KACENA DESIGN

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DUNWOODY RENAISSANCE PARKS
PHASE II

LARGE RESTROOM BUILDING:
INTERIOR ELEVATIONS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

STATE OF GEORGIA
RENAISSANCE
16-10-10-1
REGISTERED ARCHITECT

SCALE (H):
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DATE: XX/XX/XXXX
KHA PROJECT NO.: 019124002
SHEET NUMBER
A3.2

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DUNWOODY PERNOSHAL PARK

IRRIGATION PLAN

DUNWOODY PARKS AND RECREATION

41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

| | |
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| DRAWN BY: | ICS |
| CHECKED BY: | RS/BS |
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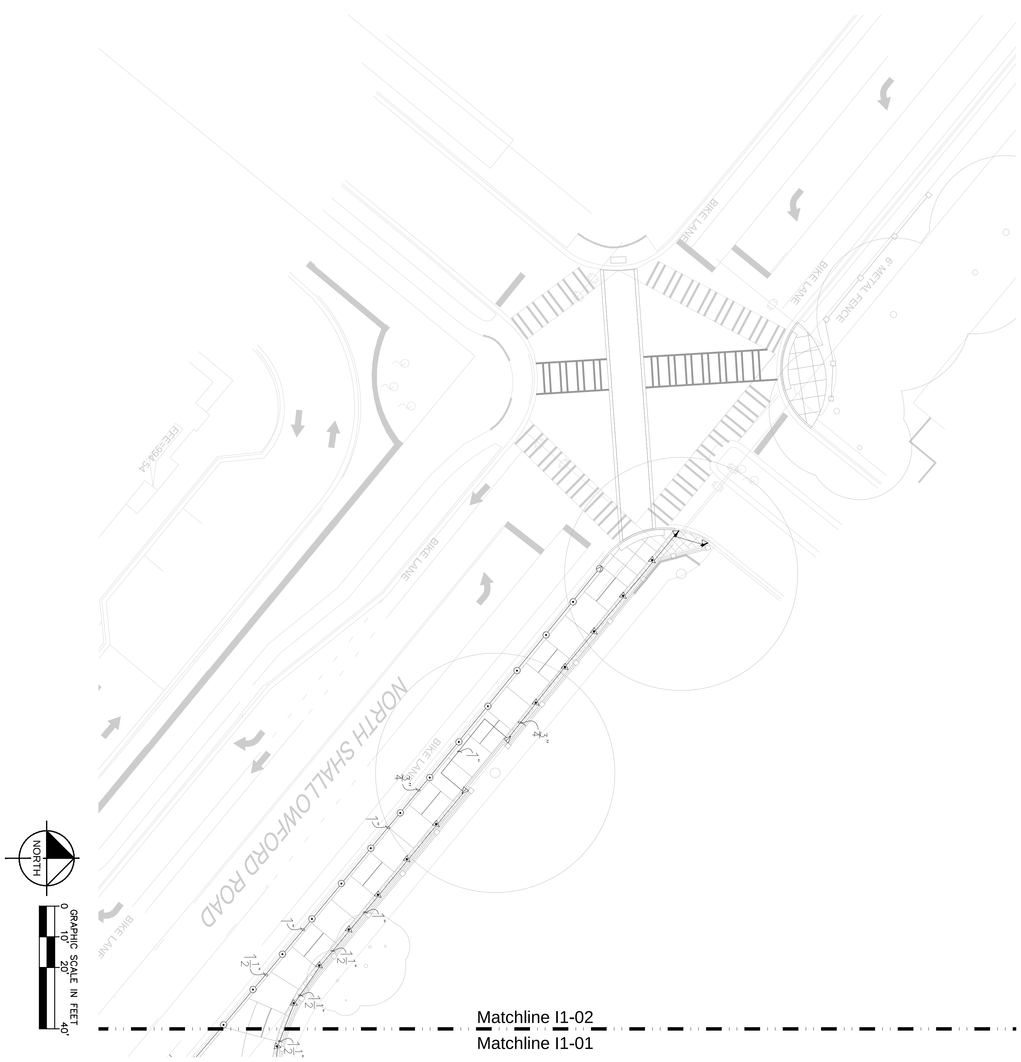


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DATE: 10/22/2014
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DUNWOODY PARKS AND RECREATION

41 PERIMETER CENTER EAST
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DUNWOODY PERNOSHAL PARK

IRRIGATION PLAN

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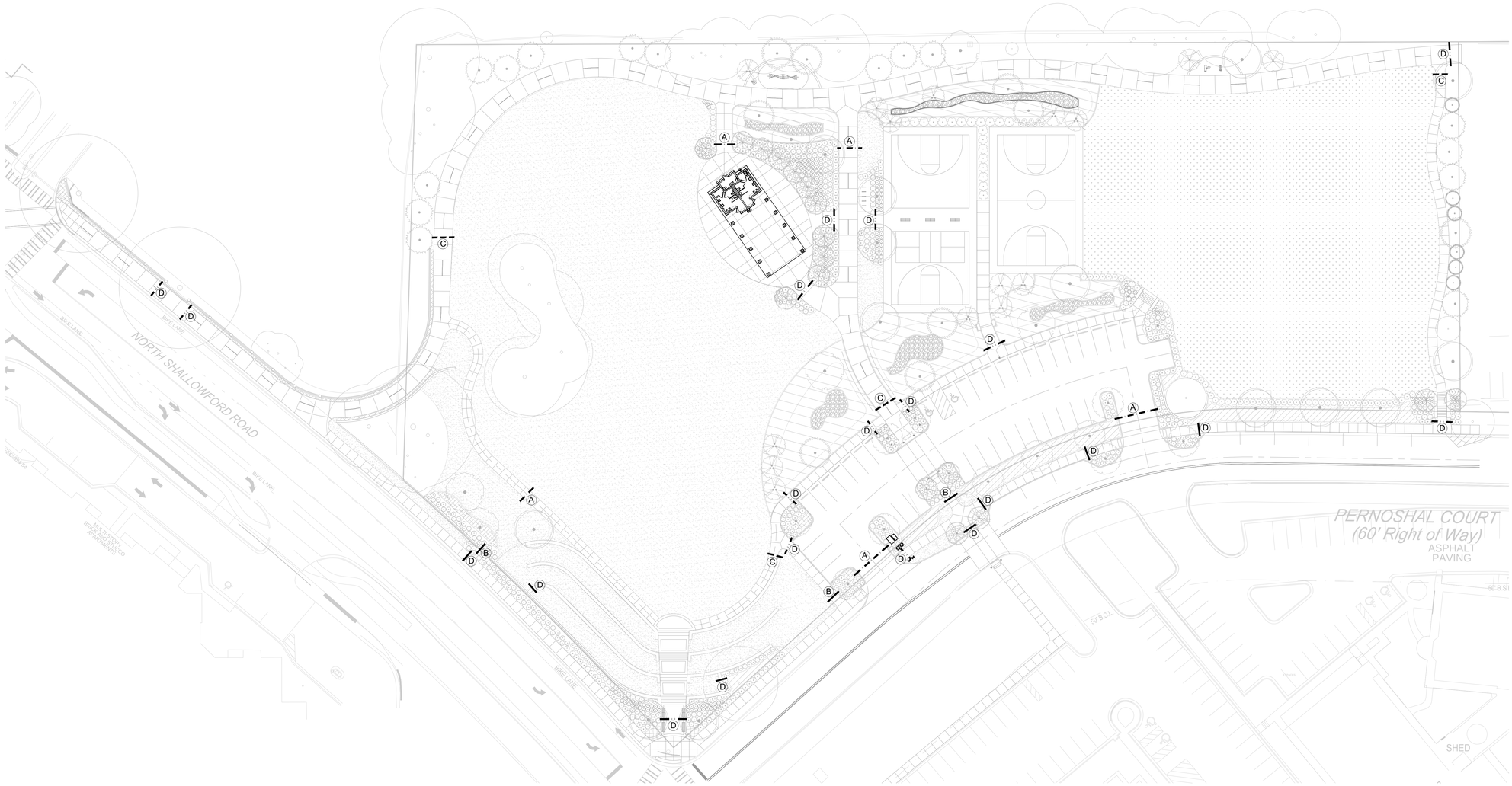
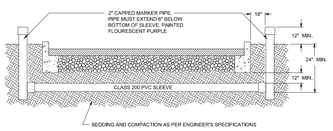



## SLEEVING LEGEND

- (A) 8" CLASS 200 PVC IRRIGATION SLEEVE
- (B) (2) 6" CLASS 200 PVC IRRIGATION SLEEVE
- (C) 6" CLASS 200 PVC IRRIGATION SLEEVE
- (D) 4" CLASS 200 PVC IRRIGATION SLEEVE

NOTE:
INSTALLER OF SLEEVES SHALL BE RESPONSIBLE TO LOCATE SLEEVES IF NOT PROPERLY INSTALLED.




## SLEEVING

NTS

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DUNWOODY PERNOSHAL PARK

IRRIGATION SLEEVING PLAN

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 - 6800

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| SCALE (V): | |
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| DRAWN BY: | ICS |
| CHECKED BY: | RS/BS |
| DATE: | 10/22/2014 |
| KHA PROJECT NO.: 019124002 | |
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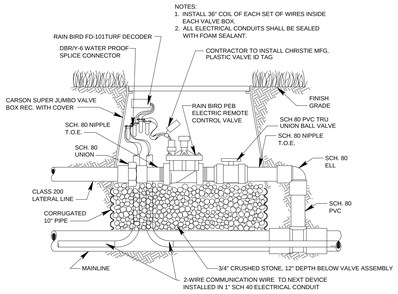
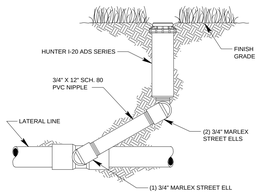
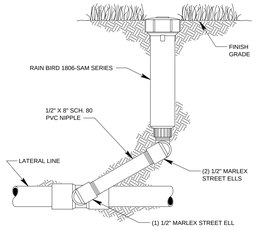



A CONTROL VALVE
NTS




B LAWN ROTOR
NTS




C LAWN SPRAY
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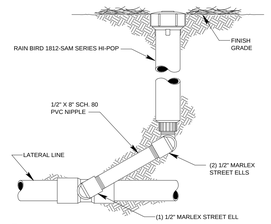
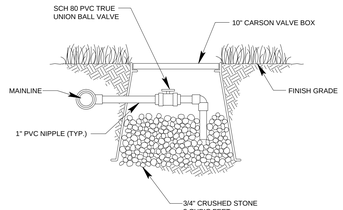
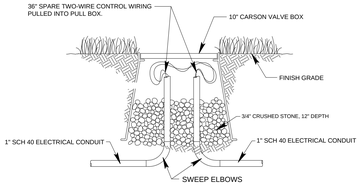


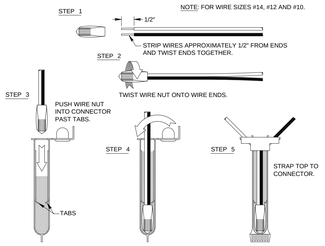

D SHRUB SPRAY
NTS



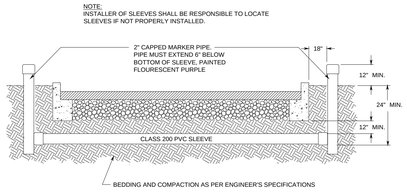

E MANUAL DRAIN VALVE
NTS



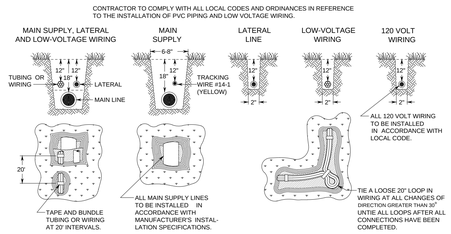

F ELECTRICAL PULL BOX
NTS




G WIRE CONNECTION
NTS
3M-DBR/Y-6




H SLEEVING
NTS



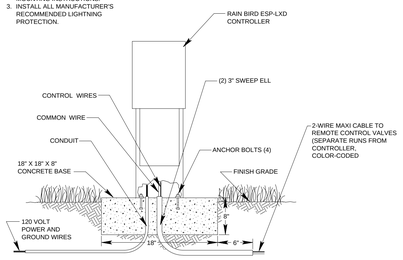

I TRENCHING
NTS

## IRRIGATION LEGEND

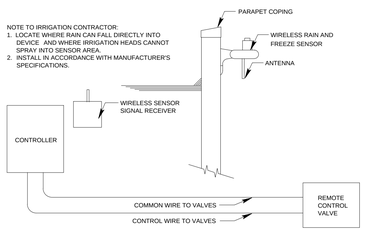
- 2" WATER METER AND BACKFLOW PREVENTION, SYSTEM REQUIRES 90 GPM @ 75 PSI. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE SYSTEM REQUIREMENTS AT SITE BEFORE STARTING CONSTRUCTION. REFER TO CIVIL PLANS FOR MORE SPECIFICS ON WATER METER AND BACKFLOW PREVENTION.
- MANUAL DRAIN VALVE. SCH 80 PVC TRUE UNION BALL VALVE. DETAIL-E.
- WINTERIZATION ASSEMBLY. DETAIL-N.
- RAIN BIRD ESP-LXD CONTROLLER: MODULAR CONTROLLER (50 STATION BASE) FOUR PROGRAMS, PLASTIC, WALL MOUNTED. DETAIL-J. IRRIGATION CONTRACTOR SHALL ALSO INSTALL A WIRELESS RAIN/FREEZE SENSOR DEVICE.
- RAIN BIRD 150-PEB OR 200-PEB PLASTIC ELECTRIC REMOTE CONTROL VALVE, 11/2" OR 2" SIZE, MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE, TO BE INSTALLED WITH RAIN BIRD FD-101TURF DECODER. DETAIL-A.
- RAIN BIRD 100-PEB PLASTIC ELECTRIC REMOTE CONTROL VALVE, 1" SIZE, MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE,TO BE INSTALLED WITH RAIN BIRD FD-101TURF DECODER. DETAIL-A.
- RAIN BIRD 1806-SAM, 6" POP-UP LAWN SPRAY SPRINKLER, 12' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD 1806-SAM, 6" POP-UP LAWN SPRAY SPRINKLER, 15' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD 1806-SAM, 6" LAWN POP-UP SIDE STRIP SPRAY SPRINKLER, 9' X 18' RADIUS, 1.5 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD 1806-SAM, 6" LAWN SIDE STRIP SPRAY SPRINKLER, 4' X 30' RADIUS, 1.5 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD 1806-SAM, 6" LAWN END STRIP SPRAY SPRINKLER, 4' X 15' RADIUS, 1.0 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SPRAY SPRINKLER, 15' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, THREE QUARTER-3.0 GPM, 30 PSI. DETAIL-D.
- RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SPRAY SPRINKLER, 12' RADIUS, FULL-2.0 GPM, 30 PSI. DETAIL-D.
- RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SIDE STRIP SPRAY SPRINKLER, 9' X 18' RADIUS, 1.5 GPM, 30 PSI. DETAIL-D.
- RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SIDE STRIP SPRAY SPRINKLER, 4' X 30' RADIUS, 1.5 GPM, 30 PSI. DETAIL-D.
- RAIN BIRD 1812-SAM, 12" HI-POP SHRUB END STRIP SPRAY SPRINKLER, 4' X 15' RADIUS, 1.0 GPM, 30 PSI. DETAIL-D.
- HUNTER I-20 ADS LAWN ROTOR, 40' RADIUS, FULL-8.0 GPM, HALF-4.0 GPM, QUARTER-2.0 GPM, 45 PSI, DETAIL-B.
- HUNTER I-20 ADS LAWN ROTOR, 30' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 45 PSI, DETAIL-B.
- HUNTER INDUSTRIES MP ROTATOR SERIES 3000, MOUNTED ON RAIN BIRD 1806-SAM SPRINKLER IN LAWN, 30' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 40 PSI, DETAIL-C.
- HUNTER INDUSTRIES MP ROTATOR SERIES 2000, MOUNTED ON RAIN BIRD 1806-SAM SPRINKLER IN LAWN, 20' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 40 PSI, DETAIL-C.
- HUNTER INDUSTRIES MP ROTATOR SERIES 3000, MOUNTED ON RAIN BIRD 1812-SAM SPRINKLER IN BED AREAS, 30' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 40 PSI, DETAIL-D.
- HUNTER INDUSTRIES MP ROTATOR SERIES 2000, MOUNTED ON RAIN BIRD 1812-SAM SPRINKLER IN BED AREA, 20' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 40 PSI, DETAIL-D.
- RAIN BIRD #5 QUICK COUPLING VALVE 1" SIZE. CONTRACTOR TO SUPPLY TWO QCV KEYS AND MATCHING HOSE SWIVELS. DETAIL-M.
- MAINLINE ISOLATION GATE VALVE, DOMESTIC DUCTILE IRON GASKETED, DETAIL-L.
- MAINLINE PIPE: 3" SIZE IF NOT NOTED. CLASS 200 PVC. ALL PIPE 2-1/2" AND LARGER SHALL BE UNIBELL GASKETED PVC PIPE AND HARCO PVC GASKETED FITTINGS. THRUST BLOCK AS PER MANUFACTURER'S RECOMMENDATIONS FOR PIPE TYPE, PIPE SIZE, AND LOCAL ENVIRONMENTAL CONDITIONS.
- IRRIGATION SLEEVE: CLASS 200 PVC, SIZE NOTED ON PLAN. DETAIL-H.
- LATERAL LINE PIPE: CLASS 200 PVC, SIZE NOTED.
- 3" ELECTRICAL CONDUIT SLEEVE.

NOTES:
1. ALL SPRINKLER TO BE MOUNTED ON MARLEX ELLS OR UNITIZED SWING JOINTS (AS SPECIFIED ON DETAILS).
2. CONTRACTOR TO UTILIZE A AUTOMATIC DRAIN CHECK VALVE DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
3. ALL TWO-WIRE CABLE TO BE MINIMUM SIZE OF 14-2 MAXI-CABLE
4. ALL TWO-WIRE CABLE TO BE INSTALLED IN 1" SCH 40 PVC ELECTRICAL CONDUIT.
5. ALL ELECTRICAL CONDUITS OPENINGS TO BE FOAM SEALED.
6. ALL WIRE SPLICES TO BE MADE WITH 3M DBR/Y-6 CONNECTORS MOUNTED IN A MINIMUM OF 10" CARSON VALVE BOX
7. ALL PIPING AND WIRING UNDER HARDTOPS WILL BE IN CLASS 200 PVC PIPE SLEEVE.
8. LSP-1 SURGE ARRESTORS SHALL BE INSTALLED EVERY 300' OR EVERY 6 DECODERS (WHICHEVER IS SHORTER) ALONG TWO-WIRE PATH. LSP-1 SURGE ARRESTORS SHALL ALSO BE INSTALLED AT ALL TERMINAL ENDS OF TWO-WIRE CABLE PATHS (STAR CONFIGURATION). REFER TO DETAIL-N.
9. INSTALLATION CONTRACTOR SHALL ADHERE TO ALL MANUFACTURER SPECIFICATIONS FOR TWO-WIRE CONTROL SYSTEM INSTALLATION (WIRE SIZING, WIRE LENGTH OF RUNS, GROUNDING, ETC).

NOTE:
1. ALL WIRING TO BE INSTALLED AS PER LOCAL CODE.
2. SEE CONTROLLER MANUAL FOR MOUNTING INSTRUCTIONS.
3. INSTALL ALL MANUFACTURER'S RECOMMENDED LIGHTNING PROTECTION.




J CONTROLLER
NTS




K RAIN SENSOR
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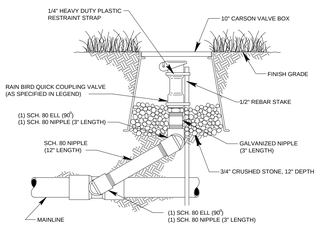


L QUICK COUPLING VALVE
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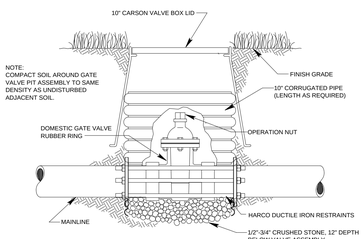
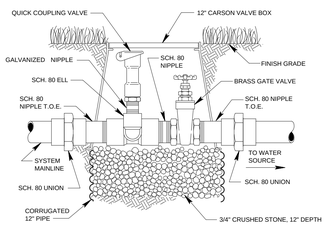


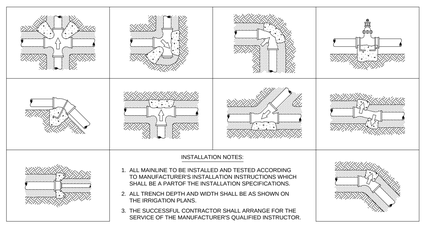

F ISOLATION VALVE
NTS

TYPICAL VALVE INDICATOR

28.5 GALLONS PER MIN.
10 STATION NUMBER
1 1/2" VALVE SIZE




N WINTERIZATION ASSEMBLY
NTS




O THRUST BLOCK
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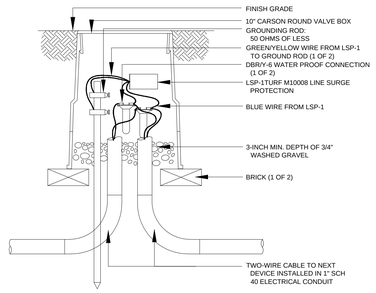


NOTES:
1. LSP-1 SHOULD BE INSTALLED EVERY 500 FT ON TWO-WIRE PATH OR EVERY 8 DECODERS (WHICHEVER IS SHORTER).
2. LSP-1 TO BE INSTALLED AT END OF WIRE RUN THAT TERMINES IN THE FIELD (STAR CONFIGURATION).

Q SURGE PROTECTION TO TWO-WIRE PATH
NTS

## GENERAL NOTES

1. ALL MAINLINES TO HAVE A MINIMUM OF 18" OF COVER. (SCH 40 PVC PIPE, CLASS 200 PVC FOR 4" AND LARGER).
2. ALL LATERAL AND SUB-MAIN PIPE TO HAVE A MINIMUM OF 12" OF COVER. (SCH 40 PVC PIPE).
3. NO ROCKS, BOULDER, OR OTHER EXTRANEOUS MATERIALS TO BE USED IN BACKFILLING OF TRENCH.
4. ALL PIPE TO BE INSTALLED AS PER MANUFACTURERS' SPECIFICATIONS.
5. ALL THREADED JOINTS TO BE COATED WITH TEFLON TAPE OR LIQUID TEFLON.
6. ALL LINES TO BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF SPRINKLER HEADS.
7. SPRINKLER AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS.
8. ALL ELECTRICAL JOINTS TO BE MADE USING WATERPROOF CONNECTIONS AS SHOWN ON DETAILS.
9. ALL EQUIPMENT NOT SPECIFIED IN THE LEGEND SHALL BE DETERMINED AND FURNISHED BY THE CONTRACTOR.
10. NO ELECTRICAL CONNECTIONS SHALL BE MADE IN THE FIELD EXCEPT AT A VALVE CONTROL BOX OR ANOTHER VALVE BOX SPECIFICALLY FOR CONNECTIONS.
11. ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET MUST BE REFERRED TO THE IRRIGATION CONSULTANT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PRECEEDING WITH THE WORK.
12. ALL TWO-WIRE CONTROL WIRES SHALL BE #14-2 MAXI CABLE, INSTALLED IN 1" SCH 40 PVC ELECTRICAL CONDUIT.
13. CONTRACTOR TO BE RESPONSIBLE FOR PROPER COVERAGE OF AREAS TO BE WATERED. I.E. ADJUST HEADS WITH INSUFFICIENT COVERAGE DUE TO BLOCKAGE BY EXISTING OR PROPOSED SITE FEATURES.
14. CONTRACTOR TO REFER TO LANDSCAPE PLAN TO KEEP SPRINKLER EQUIPMENT AND ACCESSORY MATERIAL FROM INTERFERING WITH PROPER PLANTING, i.e. VERIFY ROOT BALL SIZE FOR PLANTING.
15. CONTRACTOR SHALL PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX (WRAP AROUND 3/4" PIPE 12 TIMES).
16. CONTRACTOR TO UTILIZE APPROPRIATE AUTOMATIC DRAIN DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
17. ALL SPRINKLERS TO BE INSTALLED AS DETAILED ON PLANS.
18. CONTRACTOR SHALL UTILIZE VALVE I.D. TAGS ON ALL REMOTE CONTROL VALVES.
19. 24 VOLT WIRE SHALL BE COLOR CODED PER SEPARATE WIRE RUNS.
20. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDED GROUNDING EQUIPMENT FOR POWER SUPPLY AND VALVE OUTPUT WITH PAIGE WIRE GROUND PLATE ASSEMBLY.
21. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDATION ON FAULT GROUND AND LIGHTNING PROTECTION.
22. CONTROLLER GROUNDING MUST BE AS PER ASIC REQUIREMENTS
23. ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR TO OWNER:
    A. TWO WRENCHES FOR DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER HEADS AND VALVE SUPPLIED.
    B. TWO KEYS FOR EACH OF THE AUTOMATIC CONTROLLERS.
    C. TWO QUICK COUPLER KEYS WITH MATCHING HOSE SWIVELS.
24. SYSTEM IS DIAGRAMMATIC TO IMPROVE CLARITY. ALL MAINLINE PIPING ELECTRIC VALVES AND WIRING ARE TO BE INSTALLED IN LANDSCAPE AREAS AND WITHIN PROPERTY BOUNDARIES. CONTRACTOR SHALL REFERENCE THE LANDSCAPE PLAN PRIOR TO THE INSTALLATION OF PIPING TO AVOID CONTACT WITH PLANT MATERIALS EXISTING OR NEW.
25. CONTRACTOR TO ADD EXTENSION RISER TO POP-UP HEADS WHEN NEEDED FOR PROPER COVERAGE.
26. CONTRACTOR SHALL INSTALL SPRINKLER EQUIPMENT 12" FROM FOUNDATIONS. ALSO INSTALL SPRINKLERS 4" FROM CURB OR WALKS.
27. PRIOR TO BID IRRIGATION CONTRACTOR SHALL VERIFY RIGHT-OF-WAY AND BACKFLOW REQUIREMENTS. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY CONSULTANT OF ANY CHANGES FROM PLANS AND SPECIFICATIONS.
28. IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER AND LANDSCAPE ARCHITECT WITH A REPRODUCIBLE CROSS MEASURED AS-BUILT DRAWING OF THE INSTALLED IRRIGATION SYSTEM IN AUTOCAD 2010 FORMAT BEFORE FINAL ACCEPTANCE.
29. A 1-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR SYSTEM AFTER SUBSTANTIAL COMPLETION IS ACCEPTED. START UP AND ADJUSTING OF SYSTEM IN SPRING TIME SHALL BE INCLUDED IN WARRANTY.
30. PRIOR TO BID, CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, INSTALLATION PARAMETERS AND OPERATIONS CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY IRRIGATION CONSULTANT/DESIGNER OF ANY CHANGES REQUIRED DUE TO CURRENT CODE OR ORDINANCE DISCREPANCIES. IF CONTRACTOR DOES NOT COMPLY TO THIS NOTIFICATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY INSTALLATION CHANGE AND REDESIGN COSTS FOR NON-COMPLIANCE.
31. UNLESS OTHERWISE NOTED, THE CONTRACTOR MUST COMPLETE 2 PRESSURE TESTS OF THE IRRIGATION SYSTEM MAINLINE (BOTH TO SHOW NO DROP IN PRESSURE DURING DURATION OF TEST.
    A. 2-HOUR PRESSURE TEST AT 1.5 TIMES THE SYSTEM STATIC PRESSURE
    B. 24-HOUR PRESSURE TEST AT THE SYSTEM STATIC PRESSURE
32. IRRIGATION INSTALLATION CONTRACTOR SHALL PROVIDE OWNER WITH A COLOR-CODED ZONES DIAGRAM PLAN, 8-1/2"X11" LAMINATED SHEET(S), TO IDENTIFY CONTROLLER STATION TO THE CONTROL VALVE NUMBER FOR EACH CONTROLLER. TO BE LOCATED IN ADHESIVE POUCH ATTACHED INSIDE OF CONTROLLER(S).

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DUNWOODY PERNOSHAL PARK

IRRIGATION DETAILS

DUNWOODY PARKS AND RECREATION
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382 – 6800

| | |
|---|---|
| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | ICS |
| DRAWN BY: | ICS |
| CHECKED BY: | RS/BS |
| DATE: | 10/22/2014 |
| KHA PROJECT NO.: 019124002 | |
| SHEET NUMBER | I1-04 |

Drawing name: C:\working\Pernoshal Park\dgn-irr-base.dwg I1-04 Oct 22, 2014 11:13am by: Corey
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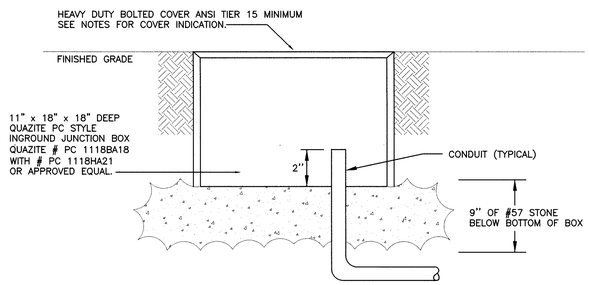
## LEGEND

- CONCEALED CONDUIT. SEE NOTE BELOW
- EXPOSED CONDUIT. SEE NOTE BELOW
- UNDERGROUND CONDUIT. SEE NOTE BELOW.
- 20AMP 125V. STRAIGHT BLADE 3 WIRE GROUNDING DUPLEX OUTLET. NUMBER INDICATES CIRCUIT.
  WP – INDICATES WEATHERPROOF
  GFCI – GROUND FAULT CIRCUIT INTERRUPTER
- A — LIGHT FIXTURE, CAPITAL LETTER INDICATES TYPE
- J — J–BOX WITH BLANK COVER, UNLESS OTHERWISE NOTED.
- PANELBOARD.
- T — TRANSFORMER.
- TFROC — TYPICAL FOR REMAINDER OF CIRCUIT.

NOTE: HASH MARKS INDICATE NUMBER OF #12 CU. HOT CONDUCTORS, #12 CU. NEUTRAL CONDUCTOR, RESPECTIVELY. GROUND CONDUCTOR NOT SHOWN. NO HASH MARKS INDICATE 3#12 CU. CONDUCTORS ( A HOT, NEUTRAL AND GROUND ), UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM.

## LIGHTING FIXTURE SCHEDULE

| TYPE | MANUFACTURER & CATALOG NUMBER | MOUNTING | NO./LAMPS | LOAD |
|---|---|---|---|---|
| D | PEDESTRIAN LED LIGHT<br>COOPER #ARC050LEDEU551332BK<br>WITH HAPCO POLE #Y7C12C5–TF–16–3"TENON–BA | 12' POLE | 58W LED INCLUDED | 58W |




### TYPICAL 11" X 18" IN GROUND JUNCTION BOX INSTALLATION DETAIL

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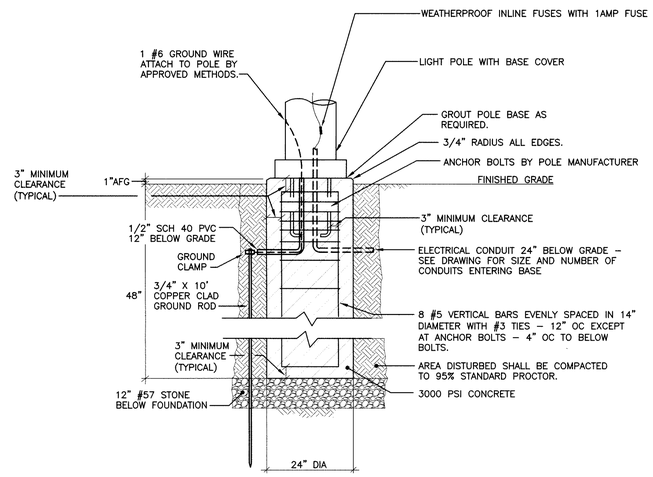
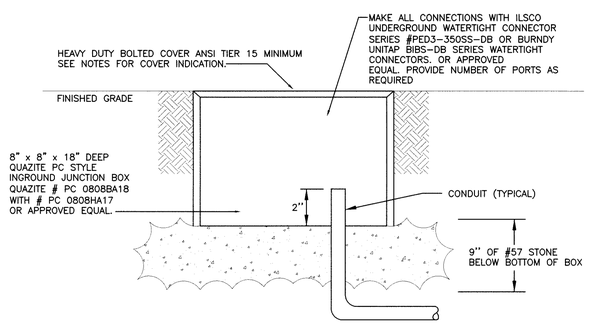



### FIXTURE TYPE 'D' POLE FOUNDATION DETAIL

3 / SE–01 SCALE: NTS




### TYPICAL 8" X 8" IN GROUND JUNCTION BOX INSTALLATION DETAIL

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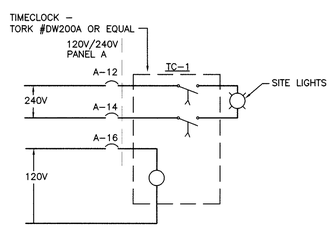


### TC-1 CONTROL SCHEMATIC

4 / SE–01 SCALE: N.T.S.

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(678) 382 – 6800

GEORGIA REGISTERED 11956 PROFESSIONAL ENGINEER WILLIAM B. M. WOMACK
10.08.2014

W&A PROJECT NUMBER - 12189
WOMACK & ASSOCIATES CONSULTING ENGINEERS
2300 Lake Park Dr, Suite 250
Smyrna, Georgia 30080
Voice 770-458-3005 Fax 770-458-8388

PLOT SCALE: 1 = 1

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| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | WBMW |
| DRAWN BY: | AAP |
| CHECKED BY: | WBMW |
| DATE: | 10/08/2014 |
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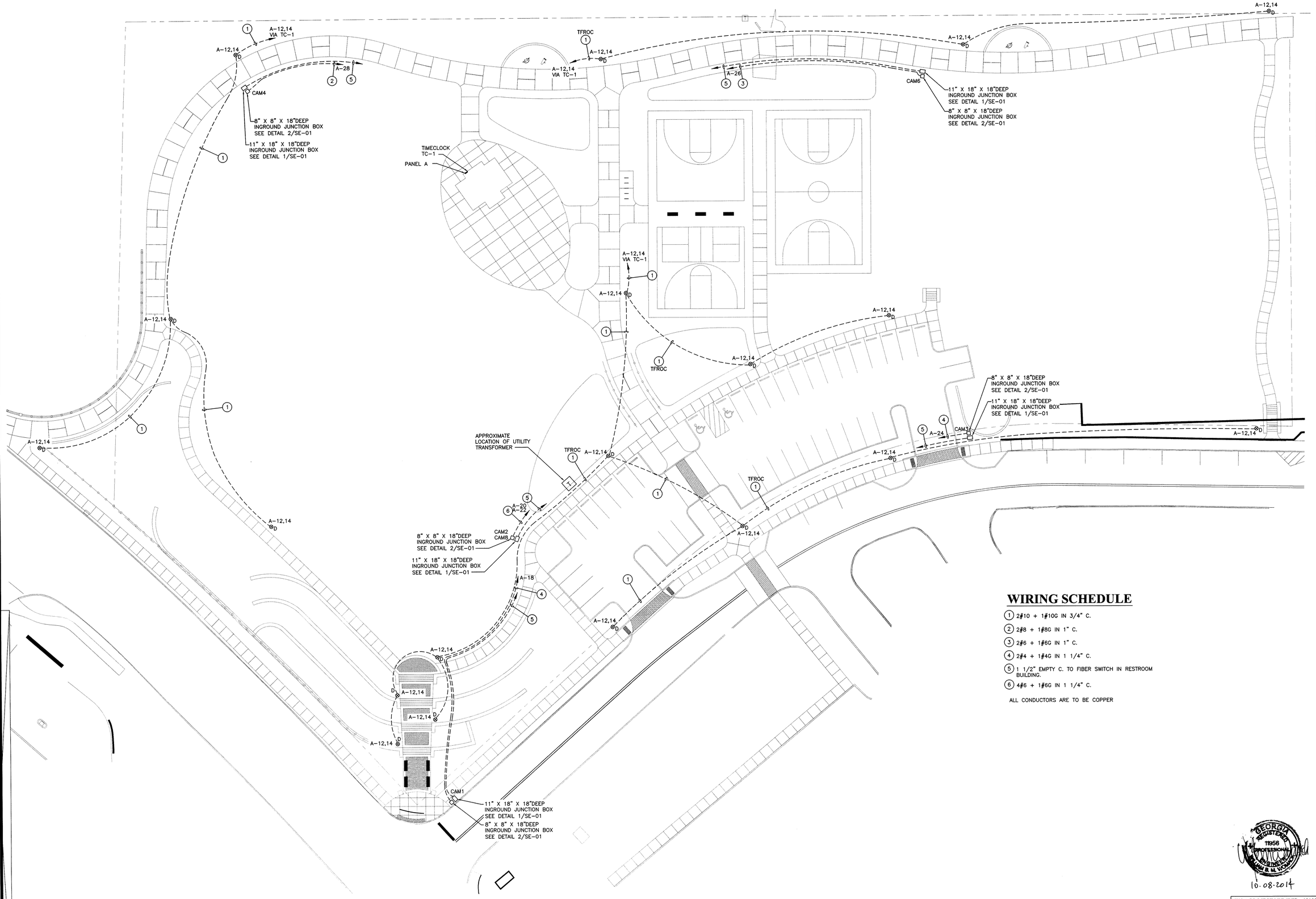
| SHEET NUMBER | SE-01 |




## WIRING SCHEDULE

1. 2#10 + 1#10G IN 3/4" C.
2. 2#8 + 1#8G IN 1" C.
3. 2#6 + 1#6G IN 1" C.
4. 2#4 + 1#4G IN 1 1/4" C.
5. 1 1/2" EMPTY C. TO FIBER SWITCH IN RESTROOM BUILDING.
6. 4#6 + 1#6G IN 1 1/4" C.

ALL CONDUCTORS ARE TO BE COPPER

## 1 SE-02 SITE PLAN - LIGHTING, POWER AND FIBER

SCALE: 1"=20'-0"

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PLOT SCALE: 1 = 1

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| SCALE (H): | |
| SCALE (V): | |
| DESIGNED BY: | WBMW |
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| DATE: | 10/08/2014 |
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