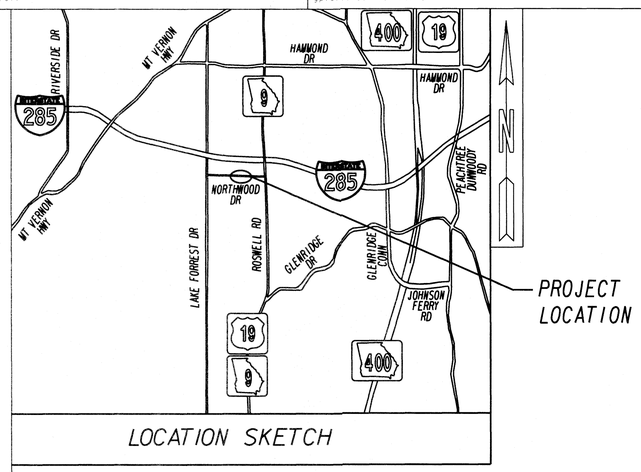
SANDY SPRINGS
PUBLIC WORKS DEPARTMENT

NORTHWOOD DRIVE
SIDEWALK PROJECT

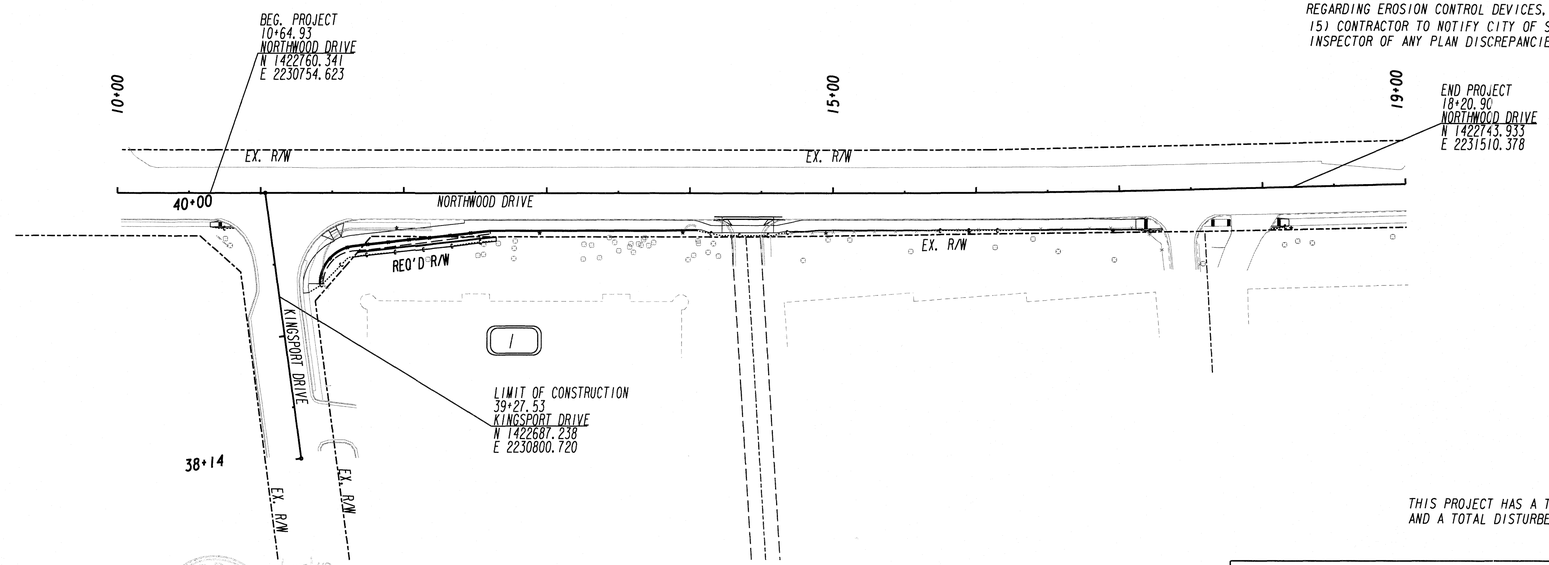


LOCATION SKETCH

SIDEWALK PROJECT
NORTHWOOD DRIVE
GENERAL DESCRIPTION: THIS PROJECT INVOLVES THE PLACEMENT OF NEW SIDEWALK

SCOPE OF SERVICE

1) THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE AFFECTED UTILITIES.
2) THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE CITY OF SANDY SPRINGS.
3) THE CONTRACTOR SHALL COORDINATE ALL WORK WITH AFFECTED PROPERTY OWNERS.
4) PERFORM ALL WORK IN ACCORDANCE WITH THE ATTACHED PLANS OR AS DIRECTED BY CITY OF SANDY SPRINGS STAFF OR ONSITE CONSTRUCTION INSPECTOR.
5) CONTRACTOR IS RESPONSIBLE FOR HAULING SEDIMENT AND DEBRIS REMOVED FROM SITE IN ACCORDANCE WITH THE ATTACHED PLANS.
6) CONTRACTOR TO PROVIDE NECESSARY BACKFILL MATERIAL AND SHALL RESTORE GRADES TO THOSE INDICATED ON PLANS OR AS DIRECTED BY THE CITY STAFF OR ONSITE CONSTRUCTION INSPECTOR.
7) THE CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS AND SHALL RESTORE THE SITE TO THE PRE-CONSTRUCTION CONDITION.
8) THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY DAMAGED FENCING. THIS INCLUDES CHAIN LINK FENCING.
9) THE CONTRACTOR SHOULD REPLACE ANY DAMAGED PROPERTY WHICH OCCURS AS A RESULT OF THIS PROJECT.
10) CONTRACTOR WILL BE RESPONSIBLE FOR SCHEDULING A PRECONSTRUCTION MEETING WITH CITY STAFF AND PROJECT ENGINEER PRIOR TO COMMENCING CONSTRUCTION.
11) CONTRACTOR WILL PROVIDE SUITABLE EROSION AND SEDIMENT CONTROL MEASURES SO AS TO PREVENT SEDIMENT FROM LEAVING SITE.
12) CONTRACTOR IS RESPONSIBLE FOR RESTORING PROPERTIES TO PRE-EXISTING CONDITIONS, INCLUDING THE REMOVAL AND SUITABLE DISPOSAL OF ALL CONSTRUCTION MATERIALS AND DEBRIS.
13) THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL CONSTRUCTION ACTIVITY WITH THE CITY OF SANDY SPRINGS STAFF AND THE ONSITE CONSTRUCTION INSPECTOR.
14) CONTRACTOR TO REFER TO GDOT STANDARDS AND DETAILS FOR SPECIFIC INFORMATION REGARDING EROSION CONTROL DEVICES, PIPE CONNECTIONS, ETC.
15) CONTRACTOR TO NOTIFY CITY OF SANDY SPRINGS STAFF OR ONSITE CONSTRUCTION INSPECTOR OF ANY PLAN DISCREPANCIES OR CHANGES IN QUANTITIES IMMEDIATELY.



PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

FUNCTIONAL CLASS:
URBAN COLLECTOR

SANDY SPRINGS ZONING OVERLAY:
MAINSTREET DISTRICT

THIS PROJECT IS 100% IN FULTON COUNTY AND IS 100% IN CONG. DIST. NO. 6 .

PROJECT DESIGNATION:
DESIGNED IN ENGLISH UNITS.

THIS PROJECT HAS A TOTAL AREA OF 0.30 ACRES AND A TOTAL DISTURBED AREA OF 0.16 ACRES

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

PLANS PREPARED BY: _____
DESIGN

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 028001 — 5/15/18

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
www.aei.cc
PROFESSIONAL ENGINEERING
DESIGN CONSULTANT

Branch Offices
65 Aberdeen Drive, Glasgow, KY 42141, (270) 651-7220
1634 White Circle, Suite 101, Marietta, GA 30066, (770) 421-8422
2500 Nelson Miller Parkway, Louisville, KY 40223, (502) 245-3813

SCALE IN FEET
0 50 100 200

24 HOUR CONTACT:

7840 ROSWELL ROAD
Street Address

SANDY SPRINGS, GA 30350
City, State Zip

(770) 730-5600
Phone Number

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

NOTE :
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA", "STATE HIGHWAY DEPARTMENT", GEORGIA STATE HIGHWAY DEPARTMENT", "HIGHWAY DEPARTMENT", OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

DRAWING No. 1

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05	TYPICAL SECTIONS	
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	GEORGIA CONSTRUCTION DETAILS	REV DATE
9031L	GRAVITY WALL TYPICAL SECTIONS, RAISING HEADWALL, AND TYPICAL PIPE PLUG	09/2016
9032	CONCRETE CURB & GUTTER, CONCRETE CURBS, CONCRETE MEDIANS	10/2011
A-3	THIS DETAIL REPLACES GA STANDARD 9031W: SPECIAL DETAILS - CONCRETE SIDEWALK DETAILS CURB CUT	09/2016
	(WHEELCHAIR) RAMPS	
A-4	DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS	06/2009
T-1	DETAILS OF SIGN PLATES	01/2000
T-2	DETAILS FOR TYPICAL FRAMING	01/2000
T-3A	TYPE 7, 8, AND 9, SQUARE TUBE POST INSTALLATION DETAIL	07/2002
T-11A	DETAILS OF PAVEMENT MARKING PLACEMENT ON NON-LIMITED ACCESS ROADWAY	09/2016
	FULTON COUNTY CONSTRUCTION DETAILS	REV DATE
308	STANDARD SIDEWALK SECTION	06/2008

SANDY SPRINGS™
GEORGIA

DESIGN MODIFICATION APPROVAL FORM

Date: February 13, 2018

To: John McDonough, City of Sandy Springs City Manager

Project Number # TS163 (LDP17-00069)

Project Name Northwood Drive SW: Kingsport Dr to Roswell Rd

Project Manager Ko Seo

Design Deviations

As part of the Site Plan Review for the Northwood Drive Sidewalk Project, the City's design consultant, AEI, received the following comments from Community Development and request for the following design deviations:

1. Project should use the design for Commercial Strip Streetscape as illustrated in plan detail 6, page 182 of the zoning ordinance.
   - Per detail, six-foot sidewalk and three-foot landscape strip are required. Design per this detail will require additional tree removal and additional utility relocation. It will also require right-of-way from the private property. Due to lack of available right-of-way and to minimize impact to the private property, the sidewalk section cannot be designed per Commercial Strip Streetscape.
2. Please redesign the plans to comply with "Type B" streetscape as detailed by Section 10.4.4 of the newly adopted Development Code.
   - Per code, on street parking, six-foot sidewalk, six-foot landscape strip, and eight-foot bike lane are required. Because this project is not a streetscape project, on street parking and bike lane will not be provided. Additionally, due to lack of available right-of-way and to mitigate impacts to the private property, on street parking, eight-foot protected bike path, and six-foot landscape cannot be provided per Type B streetscape.
3. Please redesign the sidewalk to be parallel to the right-of-way.
   - The new sidewalk follows the existing curb line, but the existing right-of-way is not parallel to the existing curb line. The sidewalk meanders slightly away from the curb at the ADA ramps to provide room for ADA ramp wings. Revising the sidewalk to be parallel to the right-of-way will cause the sidewalk to vary in width; therefore, the sidewalk will not be redesigned to be parallel to the right-of-way.
4. Sidewalk should be a minimum of 2 feet behind back of curb.
   - Two-foot landscape strip is not provided based on the available right-of-way and to mitigate the impacts of less right-of-way. The proposed sidewalk is wider than the required six-foot section to accommodate the heavy foot traffic. Including the two-foot landscape strip will require sidewalk width to reduce to five-foot section; thus providing less room for pedestrians.

Name John McDonough
Signature
Date 2/15/18

PLANS PREPARED FOR:
SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:
Branch Offices
AEI
○ 65 Aberdeen Drive, Glasgow, KY 42141, (270) 651-7220
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○ 2500 Nelson Miller Parkway, Louisville, KY 40223, (502) 245-3813
AMERICAN ENGINEERS, INC.
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PROFESSIONAL ENGINEERING
DESIGN CONSULTANT

GEORGIA REGISTERED No. 028001 PROFESSIONAL ENGINEER THOMAS SCOTT TRAPP
2/15/18

REVISION DATES		

INDEX
NORTHWOOD DR

CHECKED:		DATE:		DRAWING No.
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VERIFIED:		DATE:		

CITY OF SANDY SPRINGS

P. I. No.

DATE	DRAWING NO.	REVISION

DATE	DRAWING NO.	REVISION

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GEORGIA

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REVISION SUMMARY
NORTHWOOD DR

CHECKED:		DATE:	
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VERIFIED:		DATE:	

DRAWING No.
3

PROJECT GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD AND SUPPLEMENTAL SPECIFICATIONS, CURRENT EDITION.

2. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON PLANS, AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY UNDER THIS REQUIREMENT. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE PROJECT IN ITS ORIGINAL, RELOCATED OR NEWLY INSTALLED POSITION.

3. THE FOLLOWING UTILITIES HAVE FACILITIES IN THE PROJECT AREA:

   1. City of Atlanta Water and Sewer
      Herve Yondo PMP
      (404) 546-1247
   2. Atlanta Gas Light
      Robert Stachler PE
      (404) 584-4510
   3. Georgia Power
      (404) 506-6539
   4. AT&T
      Angelo Hines
      (770) 784-3972
   5. Comcast
      Brad Sears
      (770) 559-6052

4. INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES. REFER TO SUB-SECTION 107.07 OF THE GEORGIA STANDARD SPECIFICATIONS.

5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT AND TO DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. CONCRETE AND ASPHALT MATERIALS REMOVED FROM THE PROJECT SITE MAY NOT BE PLACED IN FILL LOCATIONS THAT FALL WITHIN EASEMENT AREAS. WITH THE PRIOR APPROVAL OF THE ENGINEER, THESE MATERIALS MAY BE PLACED WITHIN THE R/W PROVIDED THERE IS THREE (3') FEET OF MINIMUM COVER AND THERE ARE NO PLANS FOR THE FUTURE WIDENING OF THE ROADWAY.

6. STRUCTURES, TREES, SHRUBS AND OTHER PLANT MATERIAL THAT FALL WITHIN THE RIGHT-OF-WAY AND EASEMENT LIMITS, BUT OUTSIDE THE LIMITS OF CONSTRUCTION, SHALL NOT BE DISTURBED UNLESS DIRECTED BY THE ENGINEER.

7. IN AREAS WHERE NEW PAVEMENT OR PAVEMENT WIDENING IS REQUIRED, SAW CUT OF EXISTING PAVEMENT WILL BE REQUIRED IN ACCORDANCE WITH SECTION 411 OF THE GEORGIA STANDARD SPECIFICATIONS AND WILL BE INCLUDED IN PRICE BID FOR "GRADING COMPLETE".

8. ALL CONCRETE SIDEWALKS AND WHEEL CHAIR RAMPS LOCATED IN THE RADIUS RETURN SHALL BE 8" THICKNESS.

9. ALL CUT AND FILL SLOPES SHALL BE STABILIZED TO COMPLY WITH SECTION 161.3.05.B OF THE SPECIFICATIONS IN ORDER TO REDUCE THE POTENTIAL FOR EROSION. IF THE SEASON DOES NOT PERMIT PERMANENT GRASSING, TEMPORARY STRAW MULCH AND/OR TEMPORARY VEGETATION SHALL BE USED AS PER THE EROSION AND SEDIMENTATION POLLUTION CONTROL PLAN (ESPCP) OR AS DIRECTED BY THE ENGINEER.

10. EROSION CONTROL MEASURES SHALL BE INSTALLED TO BE IN COMPLIANCE WITH THE APPROVED EROSION AND SEDIMENTATION POLLUTION CONTROL PLAN (ESPCP). EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES THAT INVOLVE ENVIRONMENTAL SENTITIVE AREAS (ESA'S) AS DEFINED UNDER SECTION 107.23.F OF THE SPECIFICATIONS AND THE ESPCP. IN GENERAL, EROSION CONTROL ITEMS SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITIES.

11. IRRIGATION HEADS TO BE RELOCATED TO THE BACK OF THE SIDEWALK. COST SHALL BE INCLUDED IN PRICE BID FOR "GRADING COMPLETE".

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, RELOCATING, AND MAINTAINING THE PROPERTY OWNER'S MAILBOX, AS NECESSARY TO AN AREA OUTSIDE CONSTRUCTION LIMITS DURING THE LIFE OF THE CONTRACT. THE LOCATION OF THE BOX SHOULD BE CONVENIENT TO BOTH THE MAIL CARRIER AND THE PATRON, YET NOT INTERFERE WITH PROPOSED WORK. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONFER WITH THE POST OFFICE SERVING THE AREA. ALL COSTS INCURRED FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS.

13. AN N.O.I. (NOTICE OF INTENT) IS NOT REQUIRED FOR THIS PROJECT. THE DISTURBED AREA IS 0.16 ACRES.

14. CONTRACTOR TO PROVIDE PRE-CONSTRUCTION PHOTOS OF ALL DRIVEWAYS TO PROJECT ENGINEER PRIOR TO CONSTRUCTION. PHOTOS MAY BE DIGITAL.

15. ALL AREAS BETWEEN THE BACK OF CURB AND SIDEWALK AND TO SHOULDER BREAK POINT SHALL BE LANDSCAPED WITH PINESTRAW, UNLESS THERE IS EXISTING GRASS, THEN THE SOD TYPE FROM BACK OF CURB TO EXISTING GRASS SHALL MATCH ADJACENT GRASS. ALL COST ASSOCIATED WITH THIS REQUIREMENT SHALL BE INCLUDED IN THE PRICE BID FOR 700-9000 SOD.

16. ALL EXISTING PEDESTRIAN FACILITIES, INCLUDING ACCESS TO TRANSIT STOPS, SHALL BE MAINTAINED. WHERE PEDESTRIAN ROUTES ARE CLOSED, ALTERNATE ROUTES SHALL BE PROVIDED. WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED WITHIN THE LIMITS OF THE PROJECT, THE TEMPORARY PEDESTRIAN FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY (PER LATEST MUTCD). COST FOR CONSTRUCTING AND MAINTAINING TEMPORARY PEDESTRIAN FACILITIES SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

2. ALL SIGNS SHALL HAVE TYPE III RETROREFLECTIVE SHEETING UNLESS OTHERWISE NOTED.

3. IN RESIDENTIAL AREAS, TEMPORARY AND PERMANENT SIGNS SHALL BE LOCATED ON OR AS CLOSE AS POSSIBLE TO PROPERTY LINES.

4. EXISTING TRAFFIC SIGNS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. MAINTENANCE INCLUDES REPLACING DAMAGED AND STOLEN SIGNS, AND PERIODIC CLEANING OF EXISTING SIGNS AND CONSTRUCTION RELATED TRAFFIC CONTROL DEVICES.

5. THE WORKSITE TRAFFIC CONTROL SUPERVISOR (WTCS) SHALL BE RESPONSIBLE FOR THE ELIMINATION OF ANY CONFLICTING PAVEMENT MARKINGS. THE WTCS SHALL NOT USE "BLACK OUT PAINT" TO ERADICATE CONFLICTING MARKINGS. THE ENGINEER SHALL MAKE THE FINAL DETERMINATION WHETHER THE CONFLICTING MARKINGS HAVE BEEN ADEQUATELY ELIMINATED.

6. TRAFFIC DRUMS MEETING THE MINIMUM REQUIREMENTS OF THE MUTCD AND SECTION 150 SHALL BE USED FOR CHANNELIZATION OF TRAFFIC IN ALL TRAFFIC SHIFTS. FOR ANY WORK ZONE, THE MAXIMUM DRUM SPACING, IN FEET, SHALL BE THE DESIGN OR POSTED SPEED LIMIT, WHICHEVER IS LESS. BASED ON FIELD CONDITIONS, THE MAXIMUM SPACING OF THE TRAFFIC DRUMS MAY NEED TO BE FURTHER REDUCED.

7. ALL TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR SO AS NOT TO INTERFERE WITH SIGHT DISTANCES ALONG ANY ADJACENT SIDE ROAD OR DRIVEWAY.

8. THE CITY OF SANDY SPRINGS DEPARTMENT OF PUBLIC WORKS RESERVES THE RIGHT TO MODIFY THIS MAINTENANCE OF TRAFFIC PLAN AS FIELD CONDITIONS WARRANT. IF ADDITIONAL TRAFFIC CONTROL DEVICES ARE REQUIRED, THESE SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE DEPARTMENT.

9. REFLECTORIZED TYPE 3 BARRICADES SHALL BE USED AT THE ACTUAL LOCATION OF TOTAL STREET CLOSURE. EACH BARRICADE SHALL HAVE TWO TYPE 'A' LIGHTS AND ONE R11-2 (ROAD CLOSED) SIGN ATTACHED.

10. THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TO ALL DRIVEWAYS AT ALL TIMES.

ADDITIONAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR CONTACTING HOMEOWNERS AND RESIDENTS PRIOR TO CONSTRUCTION ALONG THEIR PROPERTY. CONTRACTOR MUST PROVIDE 48 HOURS ADVANCE NOTICE PRIOR TO DEMOLITION AND/OR CONTRUCTION OF DRIVEWAYS.

2. TIE-IN SLOPES MUST BE BLENDED IN TO EXISTING SLOPES AS PROPERTY, TERRAIN, AND VEGETATION ALLOWS.

3. CONTRACTOR SHALL NOT DISTURB TREES OUTSIDE LIMITS OF CONSTRUCTION

CITY OF SANDY SPRINGS TRANSPORTATION NOTES

1. ALL TRAFFIC CONTROL AND WARNING DEVICES MUST BE SHOWN AND PLACED PER MUTCD. THE TRAFFIC CONTROL PLAN IS SUBJECT TO CHANGE BY THE SANDY SPRINGS TRAFFIC ENGINEER.

2. TEMPORARY TRAFFIC CONTROL AND WARNING DEVICES SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF ANY ROAD IMPROVEMENT WORK ON CITY ROADS AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL SIGNING AND STRIPING WORK.

3. ALL SIGNS SHALL CONFORM TO THE MUTCD STANDARDS AND SANDY SPRINGS FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.

4. STRIPING (WHITE AND YELLOW) AND ARROW MARKING SHALL BE APPLIED USING GDOT STANDARDS FOR THERMOPLASTIC STRIPING.

5. WHEN NECESSARY, EXISTING STRIPING SHALL BE REMOVED BY HYDROBLASTING, UNLESS SPECIFIED BY THE SANDY SPRINGS TRAFFIC ENGINEER.

6. ALL FINAL SIGNAGE MUST BE INSTALLED CONCURRENTLY WITH THE PERFORMANCE OF THE STRIPING WORK.

7. CONTACT THE SANDY SPRINGS TRAFFIC ENGINEER (770-730-5600) ONE WEEK PRIOR TO COMMENCEMENT OF ANY STRIPING WORK.

8. A CITY OF SANDY SPRINGS UTILITY PERMIT IS REQUIRED FOR ANY CONSTRUCTION WITHIN THE ROW. REFER TO THE CITY'S UTILITY PERMIT POLICY FOR REQUIREMENTS.

9. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE AS-BUILT STATUS OF DOWNSTREAM DRAINAGE IMPROVEMENTS PRIOR TO BEGINNING CONSTRUCTION AND ADVISE THE ENGINEER OF ANY DIFFERENCES NOTED BETWEEN FIELD CONDITIONS AND WHAT IS DEPICTED ON THE CONSTRUCTION DOCUMENTS.

10. SAWCUT MUST BE USED IN ANY AREA WHERE NEW PAVEMENT WILL ABUT EXISTING PAVEMENT.

11. NO CLOSURES OF OR ENCROACHMENTS INTO THE PEDESTRIAN, BICYCLE, OR VEHICULAR TRAVEL AREAS SHALL BE DONE WITHOUT PRIOR APPROVAL FROM THE SANDY SPRINGS TRAFFIC ENGINEER. ALL PROPOSED PLANS FOR CLOSURES AND ENCROACHMENTS SHALL BE SUBMITTED AT LEAST TWO WEEKS PRIOR TO INTENDED BEGINNING AND MUST BE APPROVED PRIOR TO COMMENCEMENT.

CITY OF SANDY SPRINGS PEDESTRIAN LIGHTING NOTES

1. PEDESTRIAN STREET LIGHTING SHALL BE ON A SEPARATE CIRCUIT(S) WITH A METER.

2. ALL WIRING SHALL BE CONTAINED IN CONDUIT. CONDUIT SHALL BE SCHEDULE 40 PVC EXCEPT IF INSTALLED UNDERNEATH ROADWAYS AND DRIVES WHICH SHALL BE GALVANIZED RIGID STEEL (GRS) OR TYPE TP 3. MINIMUM CONDUIT SIZE IS 2".

3. NO CONDUIT MAY BE RUN OUTSIDE THE RIGHT OF WAY BOUNDARY OR ON PRIVATE PROPERTY.

4. ALL CONDUIT INSTALLED UNDER A ROADWAY OR DRIVEWAY SHALL BE INSTALLED PRIOR TO ANY NEW PAVING. NO NEW PAVING SHALL BE CUT TO INSTALL ELECTRICAL LINES.

5. CONTRACT SHALL ROUTE ALL CONDUIT RUNS BETWEEN EACH FIXTURE AND FROM THE LAST FIXTURE TO THE UTILITY COMPANY SERVICE LOCATION IN THE MOST DIRECT ROUTE AS POSSIBLE.

6. CONDUIT SHALL BE EXTENDED TO THE LIMITS OF THE PROPERTY FRONTAGE WITH A PULL BOX INSTALLED AT THE TERMINATION.

7. THE LIGHTING CONTRACTOR SHALL FURNISH A ONE YEAR WARRANTY FOR PARTS AND DEFECTIVE WORKMANSHIP ON THE LUMNIARIRES, POLES, LIGHTING CONTROL PANEL AND ALL OTHER ELECTRICAL EQUIPMENT.

8. CONTRACTOR SHALL DIRECT BORE WHERE APPLICABLE.

9. RIGID CONDUIT INSTALLED ON STRUCTURES SHALL BE SUPPORTED AT LEAST EVERY TEN FEET AND WITHIN THREE FEET OF JUNCTION BOXES.

10. EXPOSED CONDUIT SHALL BE GALVANIZED RIGID STEEL UNLESS OTHERWISE NOTED.

11. THAT CONTRACTOR SHALL INSTALL A NYLON PULL CORD OR GALVANIZED PULL WIRE IN EACH EMPTY CONDUIT.

12. ALL DRIVERS SHALL BE ADVANCE XITANIUM TYPE.

13. ALL FUSES AND FUSE HOLDERS SHALL BE IN-LINE TYPE, WATERPROOF AND PROVIDED WITH BREAKAWAY WIRING CONNECTORS.

14. ALL ELECTRICAL MATERIALS INCLUDING BUT NOT LIMITED TO CONDUIT, CABLES, CONDUCTORS, METERS, AND JUNCTION BOXES SHALL BE U.;. LISTED AND MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND THE AMERICAN NATIONAL STANDARDS INSTITUTE. ELECTRICAL CONDUITS, WIRES, CIRCUIT BREAKERS, FUSES, GROUND RODS AND GROUND CONDUCTORS SHALL MEET GDOT'S QUALIFIED PRODUCTS LIST (QPL) AND SHALL MEET THE CITY OF SANDY SPRINGS STANDARDS AND SPECIFICATIONS FOR OUTDOOR LIGHTING.

15. ALL LAMPS SHALL BE LED TYPE.

16. ALL POLES SUPPLIED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CITY OF SANDY SPRINGS STANDARDS AND SPECIFICATIONS FOR OUTDOOR LIGHTING FOR APPROVED SUPPLIERS OR HAVE AN APPROVED VARIANCE.

17. ALL LUMINAIRES SUPPLIED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CITY OF SANDY SPRINGS STANDARDS AND SPECIFICATIONS FOR OUTDOOR LIGHTING FOR APPROVED SUPPLIERS OR HAVE AN APPROVED VARIANCE.

GEORGIA811
Utilities Protection Center, Inc.
Know what's below.
Call before you dig.

PLANS PREPARED FOR:
SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:
Branch Offices
AEI
65 Aberdeen Drive
Glasgow, KY 42141
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GEORGIA REGISTERED No. 028001 PROFESSIONAL ENGINEER THOMAS SCOTT FRAVEL
5/15/18

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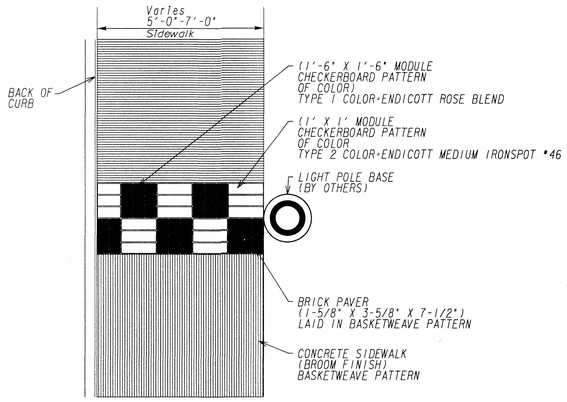
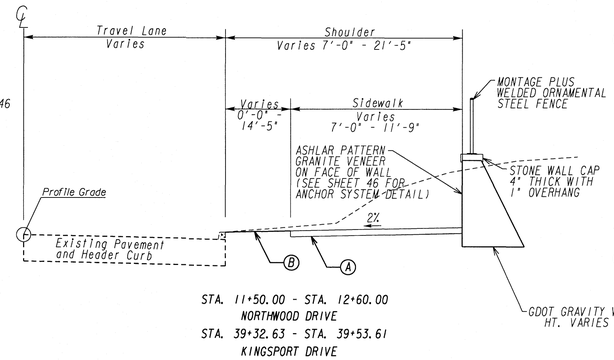
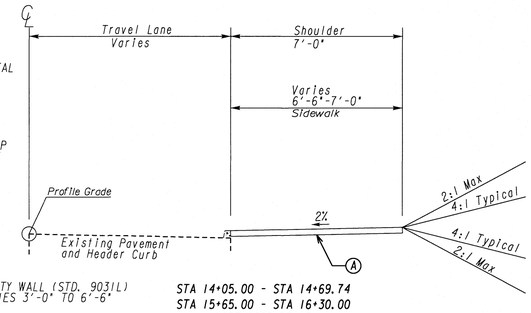
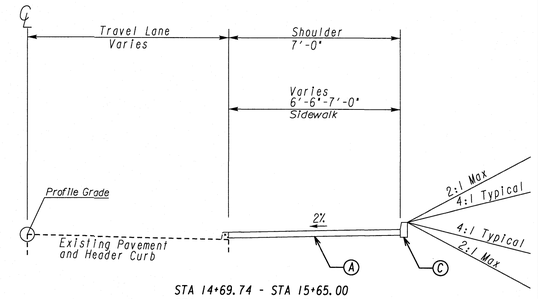




STA. 11+50.00 - STA. 12+60.00
NORTHWOOD DRIVE
STA. 39+32.63 - STA. 39+53.61
KINGSPORT DRIVE

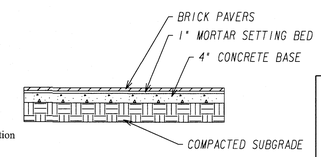


STA 14+05.00 - STA 14+69.74
STA 15+65.00 - STA 16+30.00
NORTHWOOD DRIVE

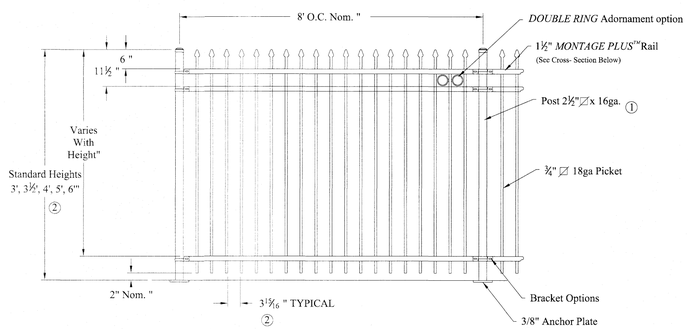


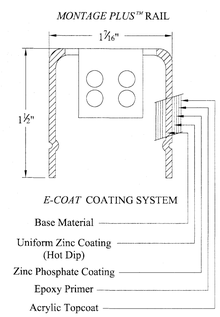
STA 14+69.74 - STA 15+65.00
STA 16+30.00 - STA 17+11.07
NORTHWOOD DRIVE

(A) CONC SIDEWALK, 4 IN
(B) SODDING
(C) CONC HEADER CURB



PAVER BED DETAIL (N.T.S)

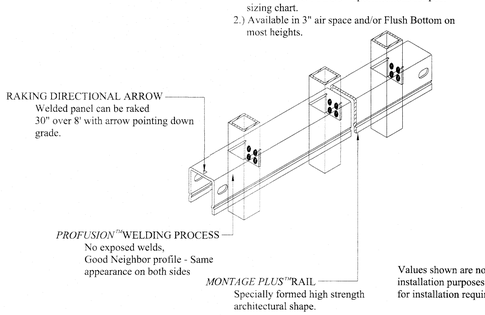




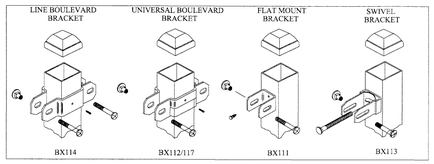
NOTES:

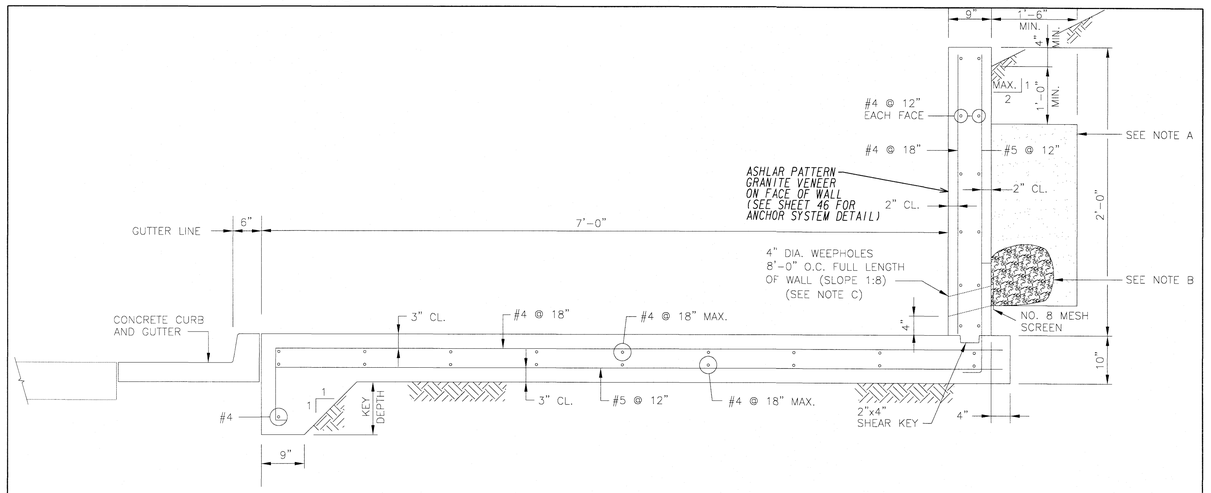
1.) Post size depends on fence height and wind loads. See *MONTAGE PLUS* ™ specifications for post sizing chart.

2.) Available in 3" air space and/or Flush Bottom on most heights.



Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.





KEY DEPTH	WALL HEIGHT
6" MIN.	2'-0"
0'-9"	2'-6"
1'-0"	3'-0"
2'-0"	5'-0"

LOADS:
SURCHARGE = 0 PSF

MATERIALS:
CONCRETE _____ f'c = 3,000 PSI
REINFORCING _____ fy = 60,000 PSI

SOIL PROPERTIES:
SOIL WEIGHT = 110 PCF
* = 28°
C = 0
ALLOWABLE SOIL PRESSURE = 2,000 PSF

NOTES:

A. CONTINUOUS BLANKET OF FINE AGGREGATE UNDERDRAIN MATERIAL CONSISTING OF NO. 10 CONCRETE SAND MEETING THE REQUIREMENTS OF SECTION 801.02 OF THE STANDARD SPECIFICATIONS, OR OTHER AGGREGATE WITH A COEFFICIENT OF PERMEABILITY EQUAL TO 100 TO 500 FEET PER DAY.

B. 1 CU. FT. NO. 89 OR 789 STONE CONTAINED IN A BURLAP BAG AT EACH WEEPHOLE.

C. WEEP HOLES REQUIRED WHEN WALL HEIGHT IS EQUAL TO OR GREATER THAN 3'-0".

S-3 SIDEWALK WALL DETAIL
STA. 12+60.00 TO STA. 14+05.00

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

AEI
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○ 2500 Nelson Miller Parkway, Louisville, KY 40223, (502) 245-3851
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GEORGIA REGISTERED No. 028001 PROFESSIONAL ENGINEER THOMAS SCOTT HAMILL
5/15/19

REVISION DATES		

TYPICAL SECTION NORTHWOOD DR

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		5
CORRECTED:		DATE:		
VERIFIED:		DATE:		

QUANTITIES REQUIRED BY AMENDMENT

AMENDMENT DATE	AMENDMENT NUMBER	ITEM NO.	DESCRIPTION	UNIT	ORIGINAL QUANTITY	REQUIRED BY AMENDMENT QUANTITY

PLANS PREPARED FOR:

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GEORGIA

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5/11/18

REVISION DATES		

QUANTITIES (AMENDMENT)
NORTHWOOD DR

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		6
CORRECTED:		DATE:		
VERIFIED:		DATE:		

QUANTITIES REQUIRED ON CONSTRUCTION

REVISION DATE	ITEM NO.	DESCRIPTION	UNIT	ORIGINAL QUANTITY	PREVIOUS QUANTITY	REQUIRED ON CONSTRUCTION QUANTITY

PLANS PREPARED FOR:

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GEORGIA REGISTERED No. 028001 PROFESSIONAL ENGINEER
5/11/18

REVISION DATES

QUANTITIES (CONSTRUCTION)
NORTHWOOD DR

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VERIFIED:		DATE:	

DRAWING No.
7

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CITY OF SANDY SPRINGS

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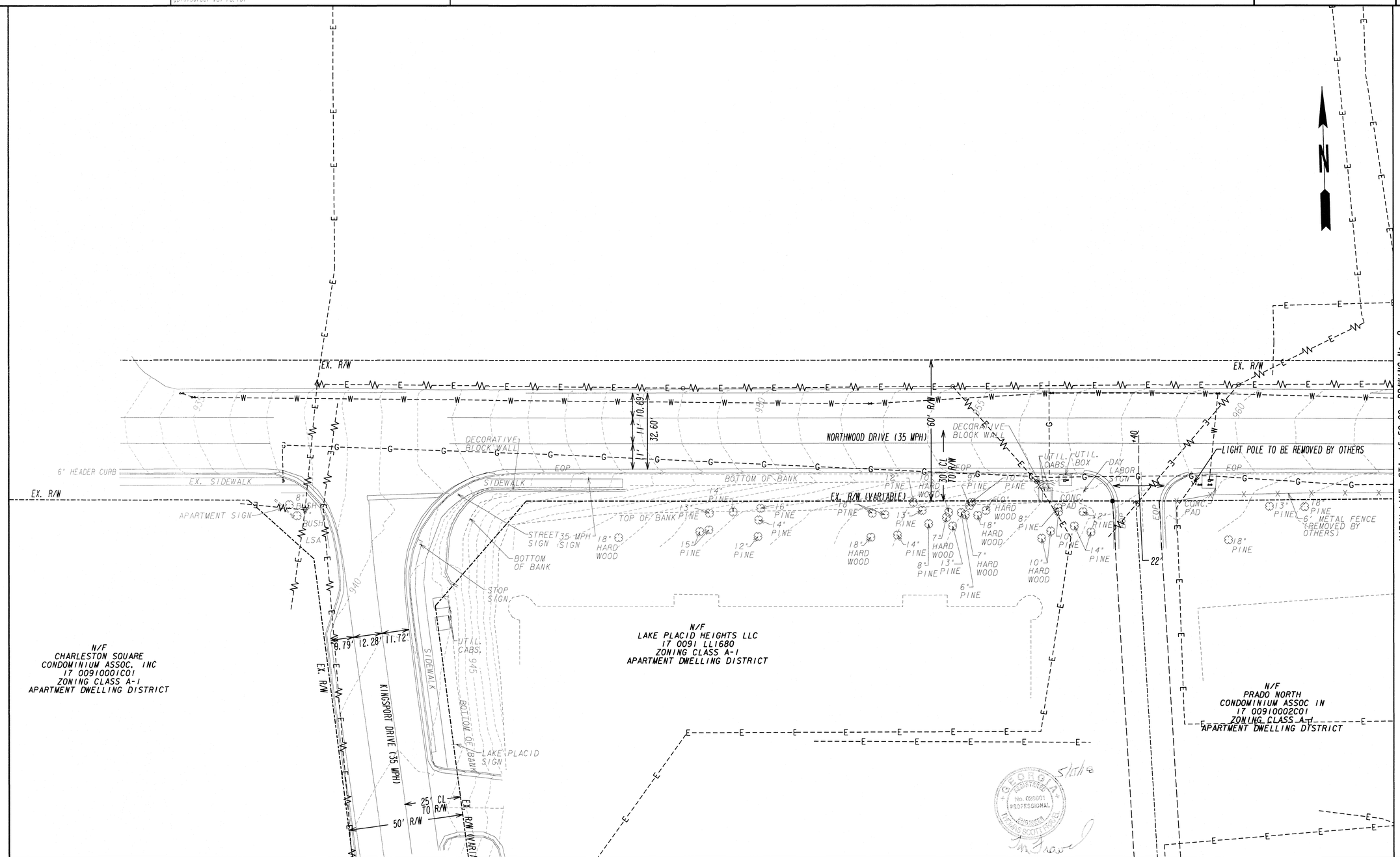

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

PLANS PREPARED FOR:

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SCALE IN FEET
0 20 40 80

REVISION DATES

EXISTING CONDITIONS
NORTHWOOD DR

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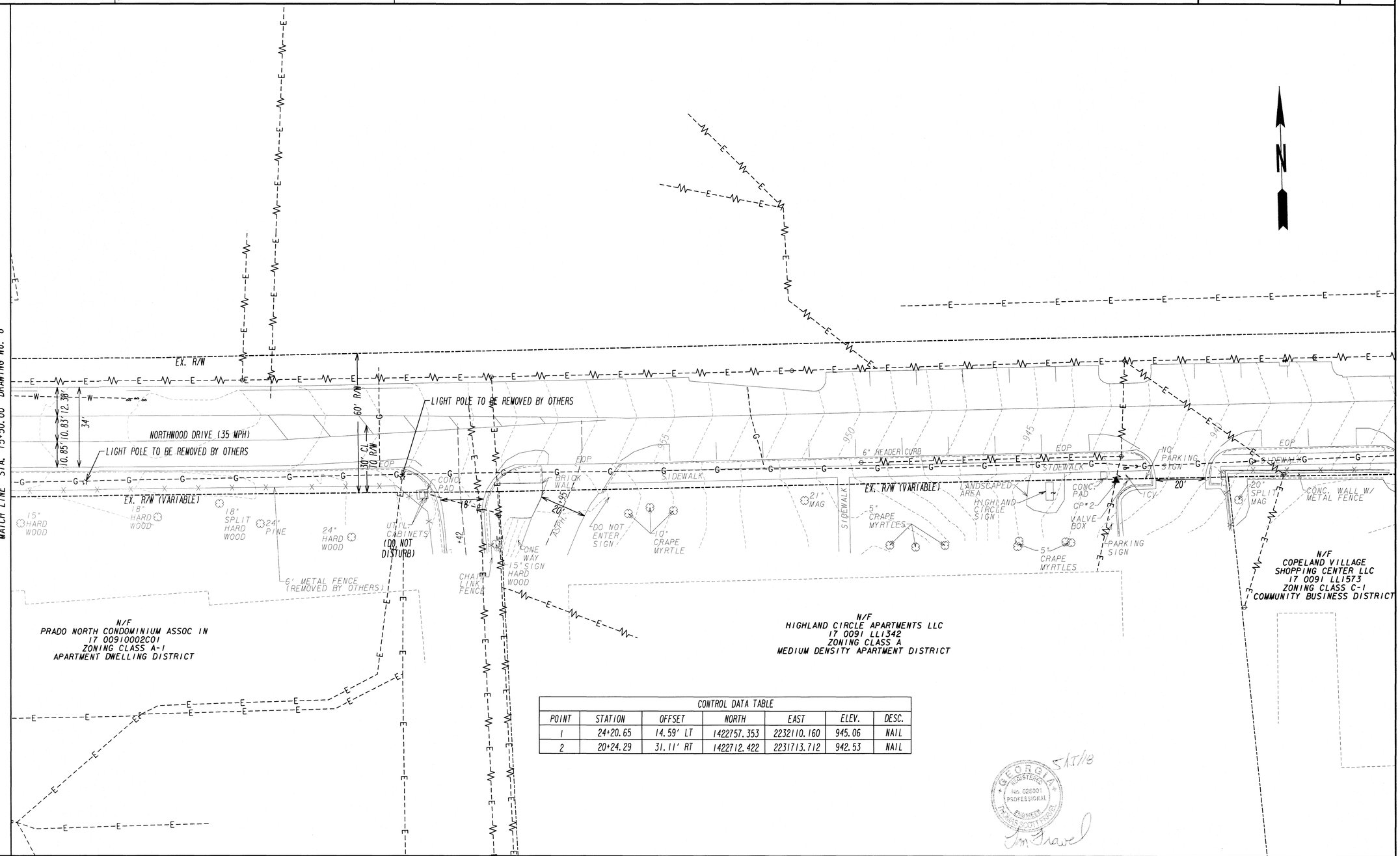
DRAWING No.
8

10/23/2015 GPLN



CONTROL DATA TABLE						
POINT	STATION	OFFSET	NORTH	EAST	ELEV.	DESC.
1	24+20.65	14.59' LT	1422757.353	2232110.160	945.06	NAIL
2	20+24.29	31.11' RT	1422712.422	2231713.712	942.53	NAIL

GEORGIA REGISTERED No. 026001 PROFESSIONAL ENGINEER THOMAS SCOTT HAWK

5/11/18

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

PLANS PREPARED FOR:

SANDY SPRINGS
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0 20 40 80

REVISION DATES

EXISTING CONDITIONS
NORTHWOOD DR

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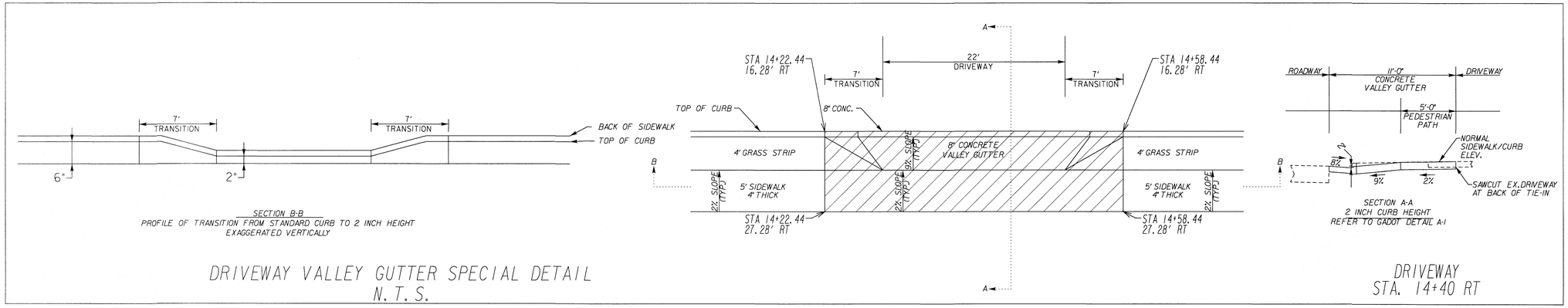
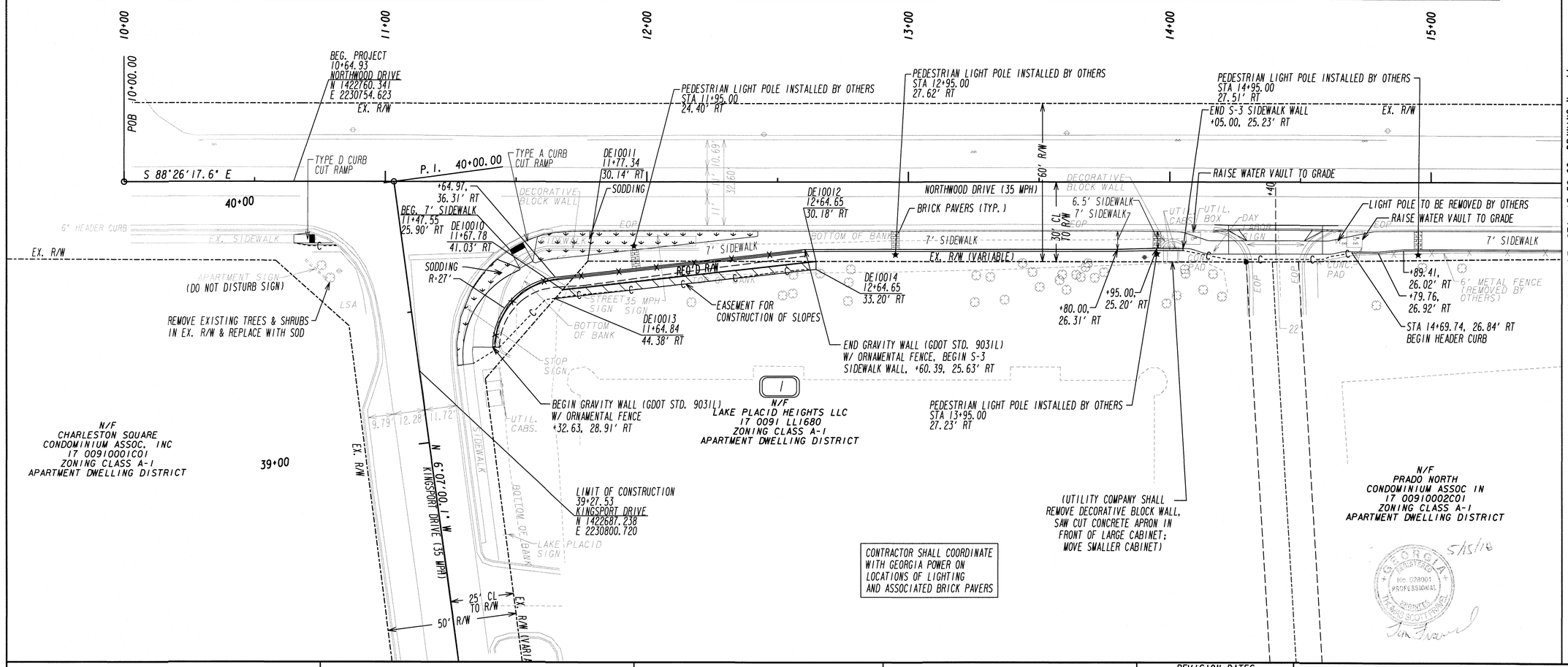
VERIFIED:		DATE:	

DRAWING No. 9

10/23/2015 GPLN





PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

PLANS PREPARED FOR:

SANDY SPRINGS
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SCALE IN FEET
0 20 40 80

REVISION DATES

CONSTRUCTION PLAN
NORTHWOOD DR

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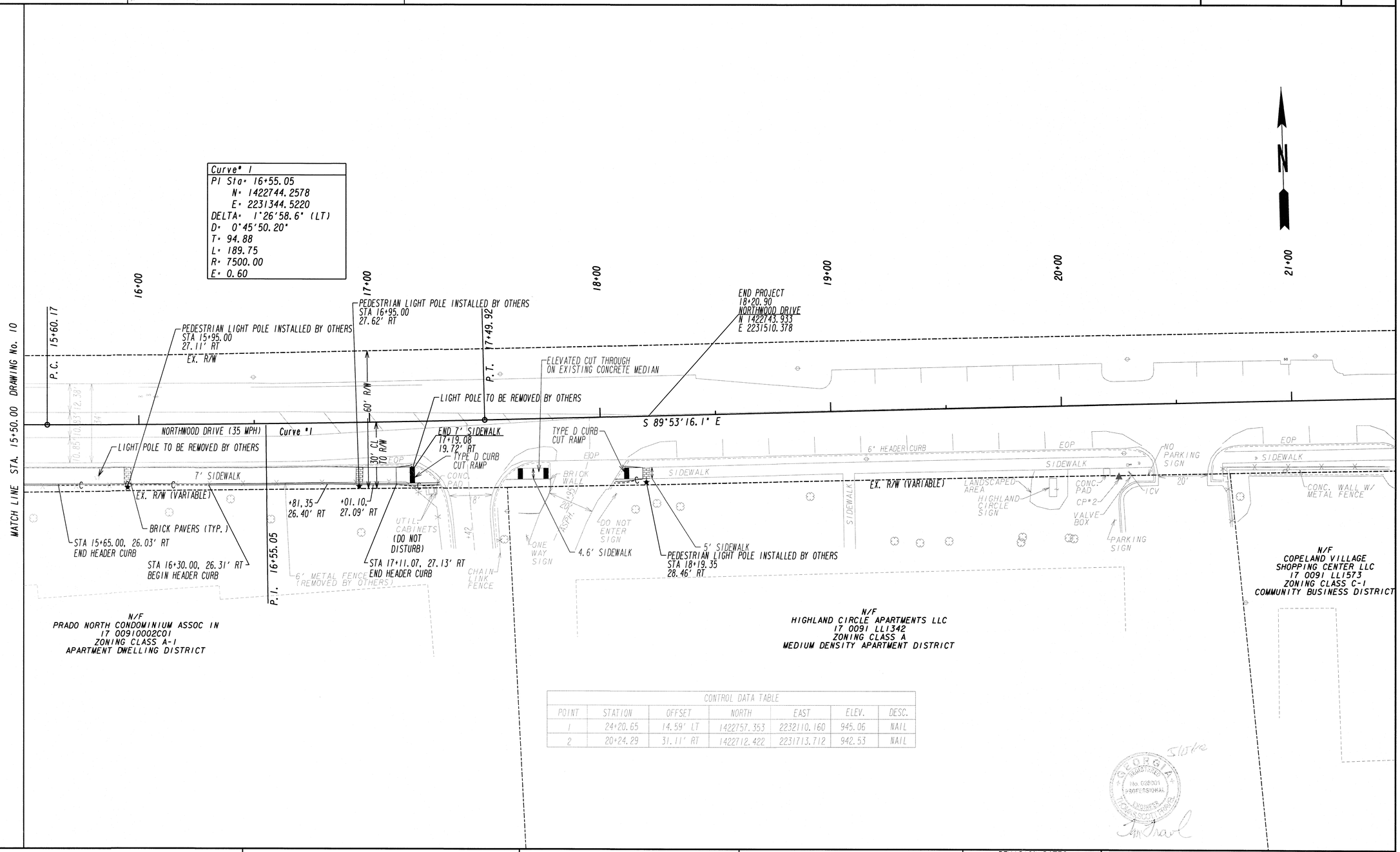
BACKCHECKED:		DATE:		10
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GEORGIA REGISTERED No. 028001 PROFESSIONAL ENGINEER THOMAS SCOTT HINES
5/15/18

10/23/2015 GPLN



CONTROL DATA TABLE

POINT	STATION	OFFSET	NORTH	EAST	ELEV.	DESC.
1	24+20.65	14.59' LT	1422757.353	2232110.160	945.06	NAIL
2	20+24.29	31.11' RT	1422712.422	2231713.712	942.53	NAIL

GEORGIA REGISTERED No. 028001 PROFESSIONAL ENGINEER THOMAS SCOTT THARP

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

PLANS PREPARED FOR:
SANDY SPRINGS
GEORGIA

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SCALE IN FEET
0 20 40 80

REVISION DATES

CONSTRUCTION PLAN
NORTHWOOD DR

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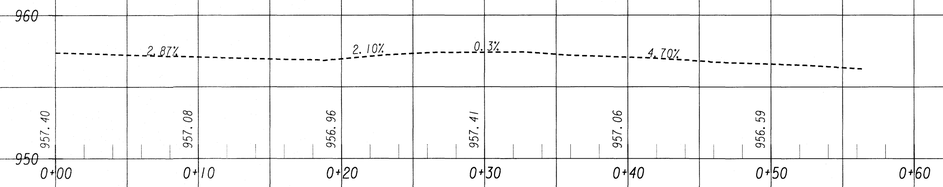
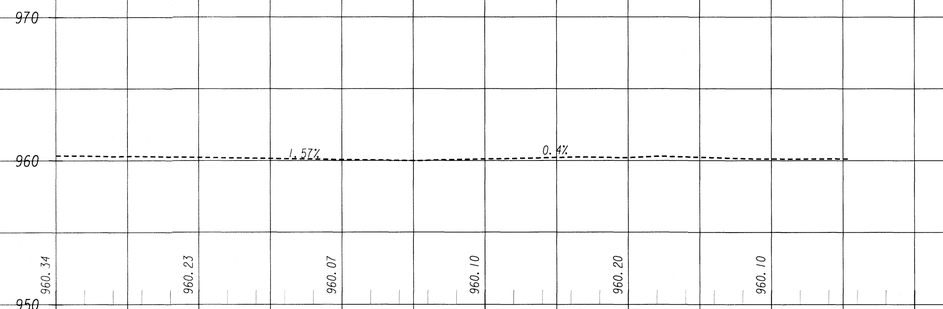
DRAWING No. 11

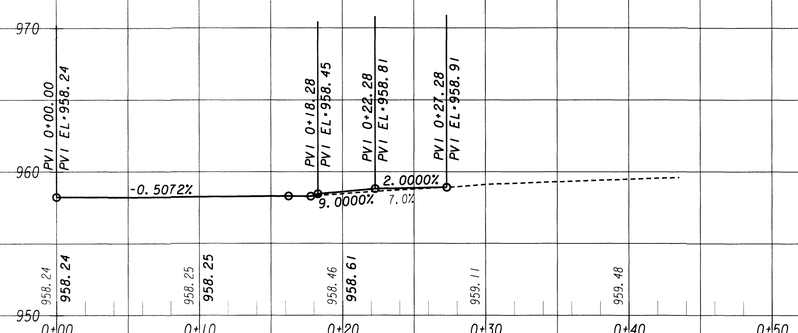
10/23/2015 GPLN



DW 17+95
NORTHWOOD DR
COMMERCIAL



DW 17+42
NORTHWOOD DR
COMMERCIAL



DW 14+40
NORTHWOOD DR
COMMERCIAL

5/5/18

SANDY SPRINGS
GEORGIA

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REVISION DATES

DRIVEWAY PROFILES
NORTHWOOD DR

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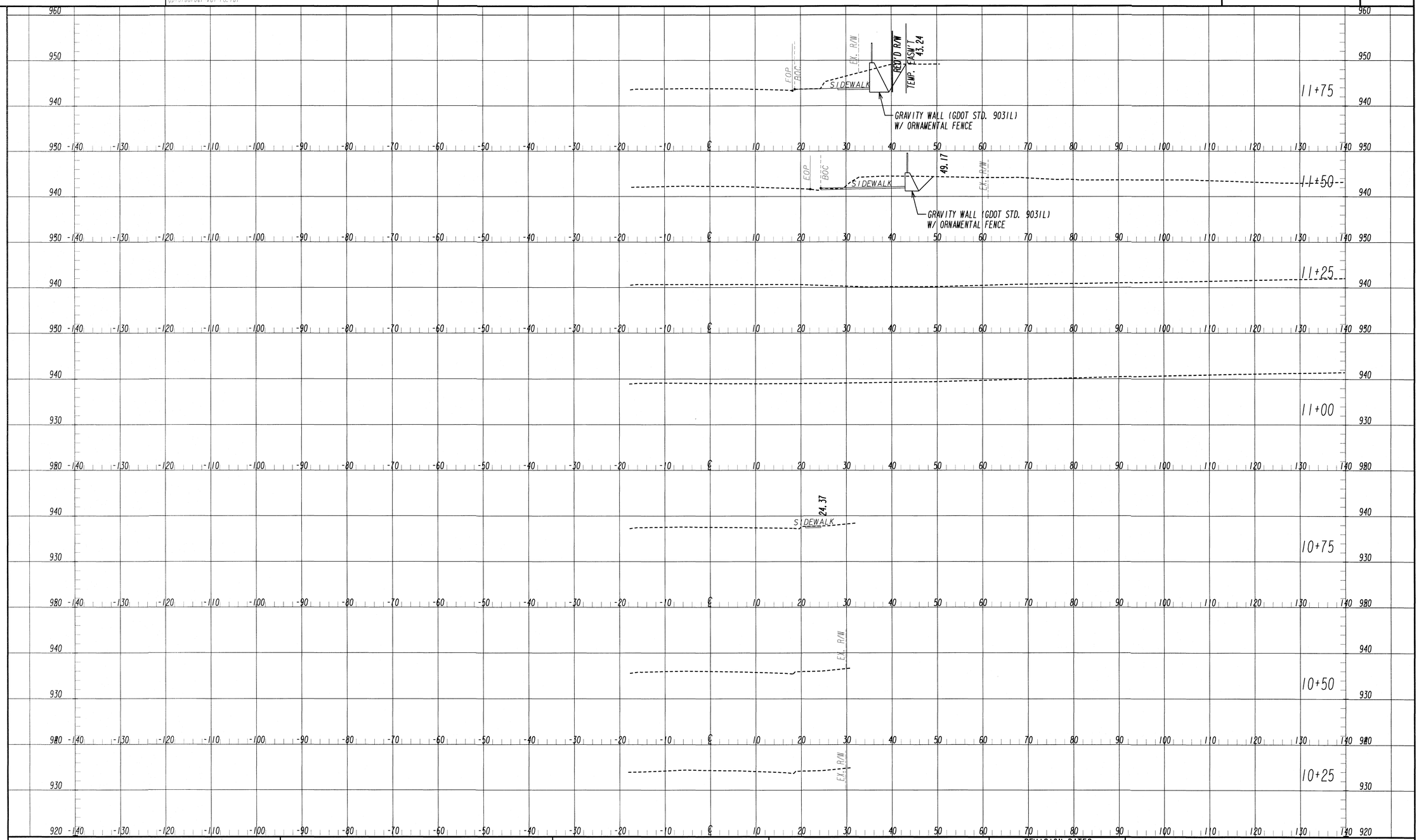
12

10/23/2015 GPLN

CITY OF SANDY SPRINGS

P.I. No.



PLANS PREPARED FOR:

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SCALE IN FEET
0 10 20 40

REVISION DATES

CROSS SECTIONS
NORTHWOOD DR

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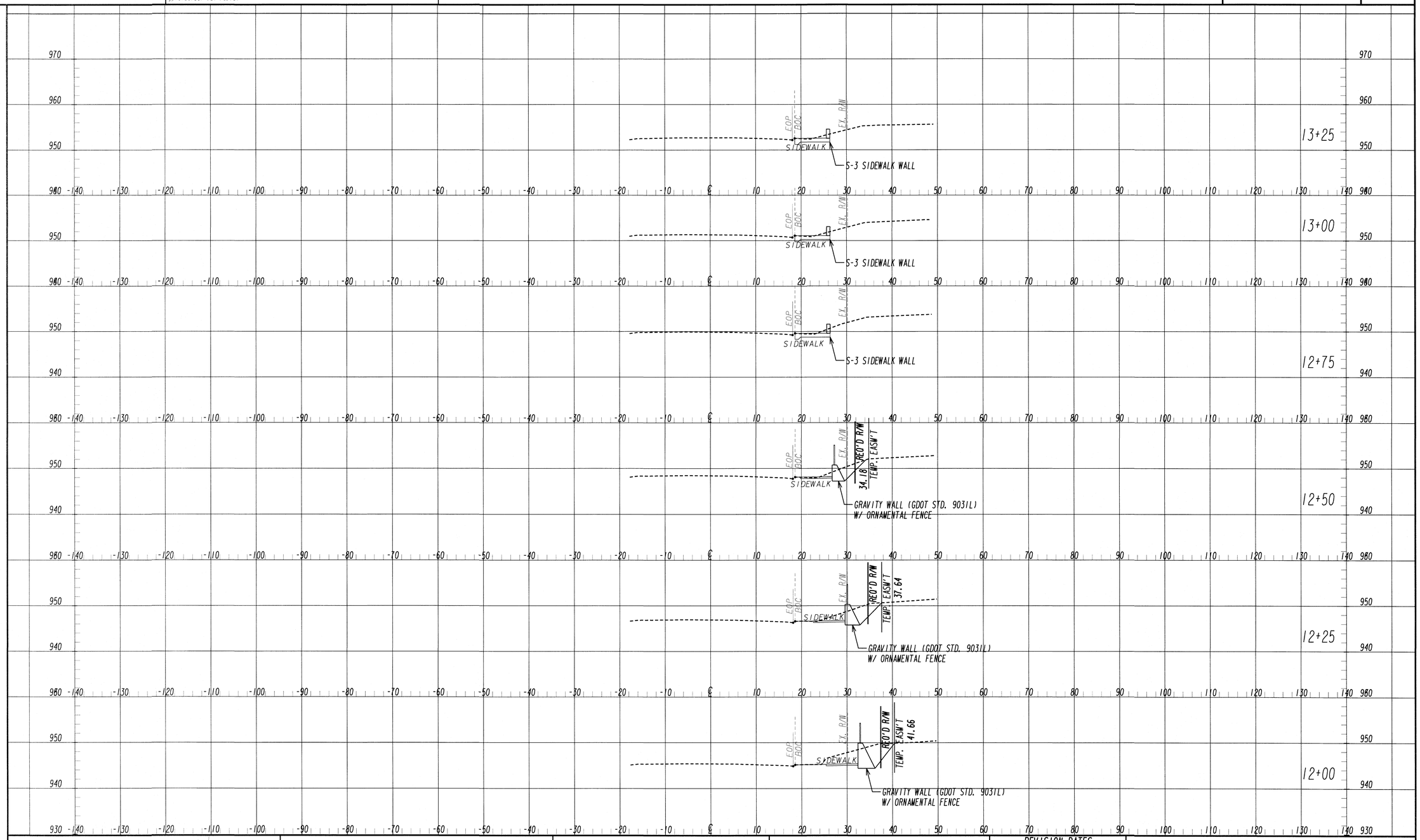
DRAWING No.
13

7/31/2015 SUXSEW



PLANS PREPARED FOR:

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GEORGIA

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REVISION DATES

CROSS SECTIONS
NORTHWOOD DR

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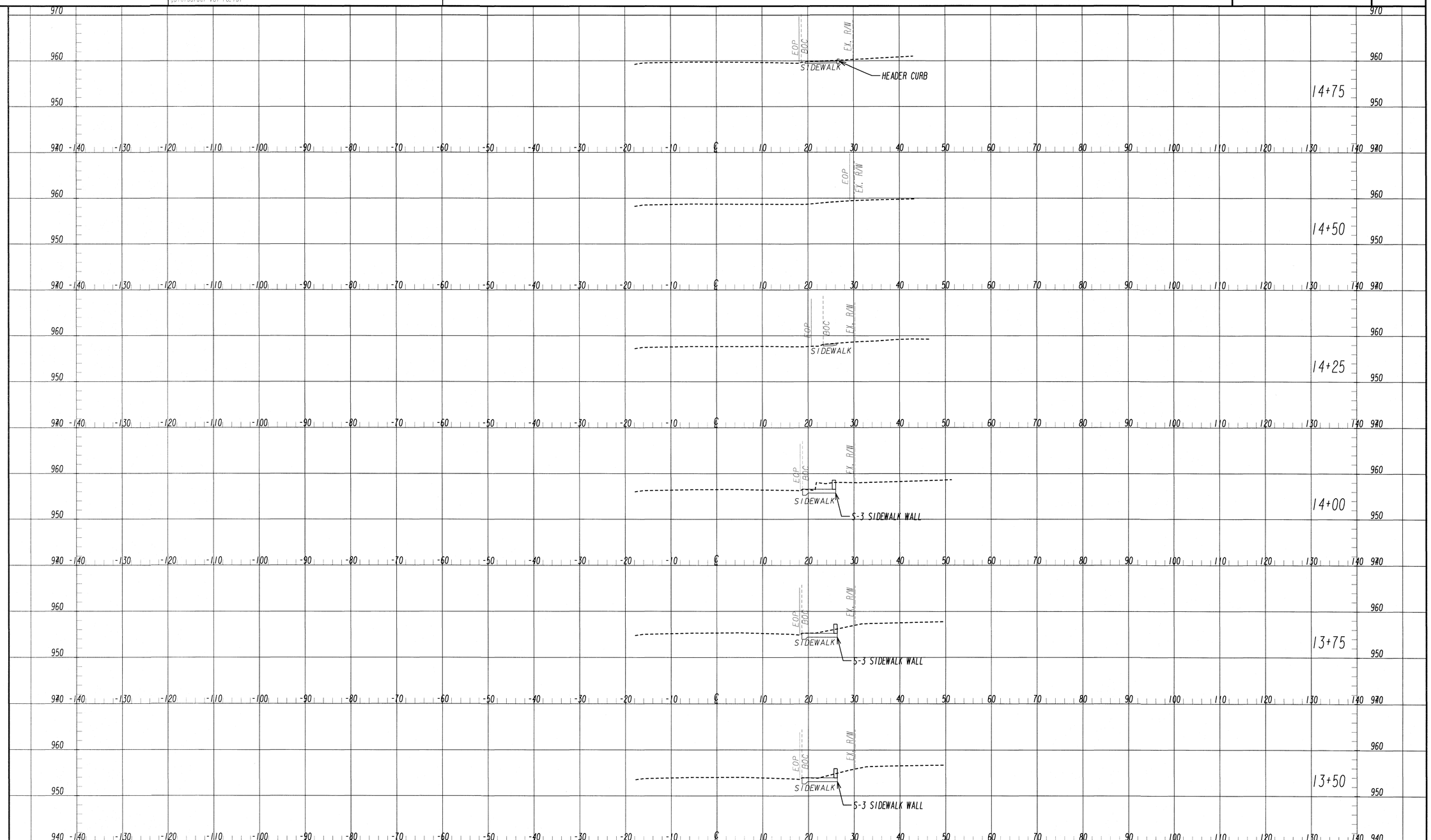
DRAWING No.
14

CITY OF SANDY SPRINGS

P.I. No.



GEORGIA REGISTERED No. 026001 PROFESSIONAL ENGINEER THOMAS SCOTT FRANKLIN

7/31/2015 SUXSEW

PLANS PREPARED FOR:

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0 10 20 40

REVISION DATES

CROSS SECTIONS
NORTHWOOD DR

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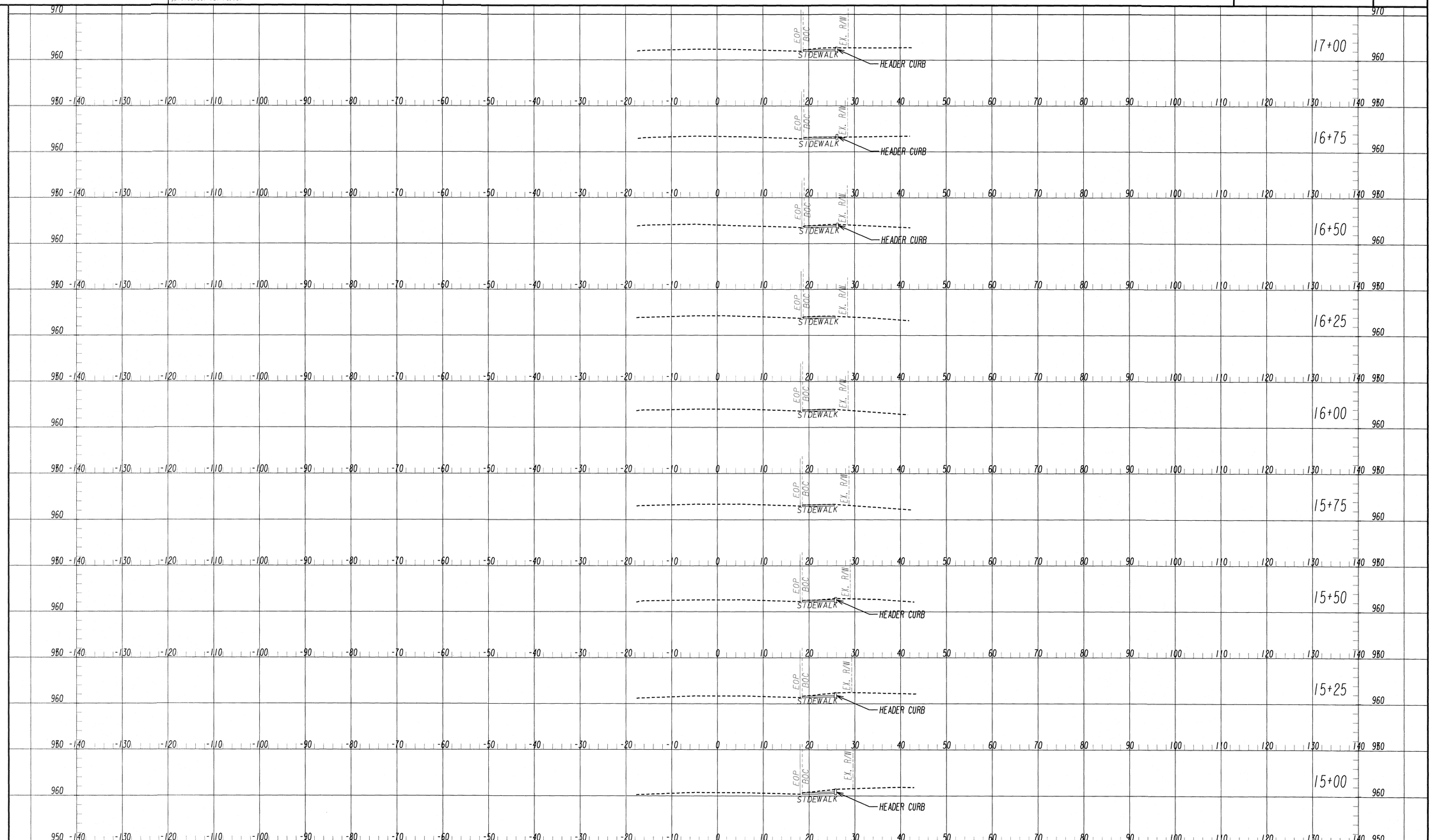
DRAWING No.
15

CITY OF SANDY SPRINGS

P.I. No.



7/31/2015 SUYSEW

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0 10 20 40

REVISION DATES

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NORTHWOOD DR

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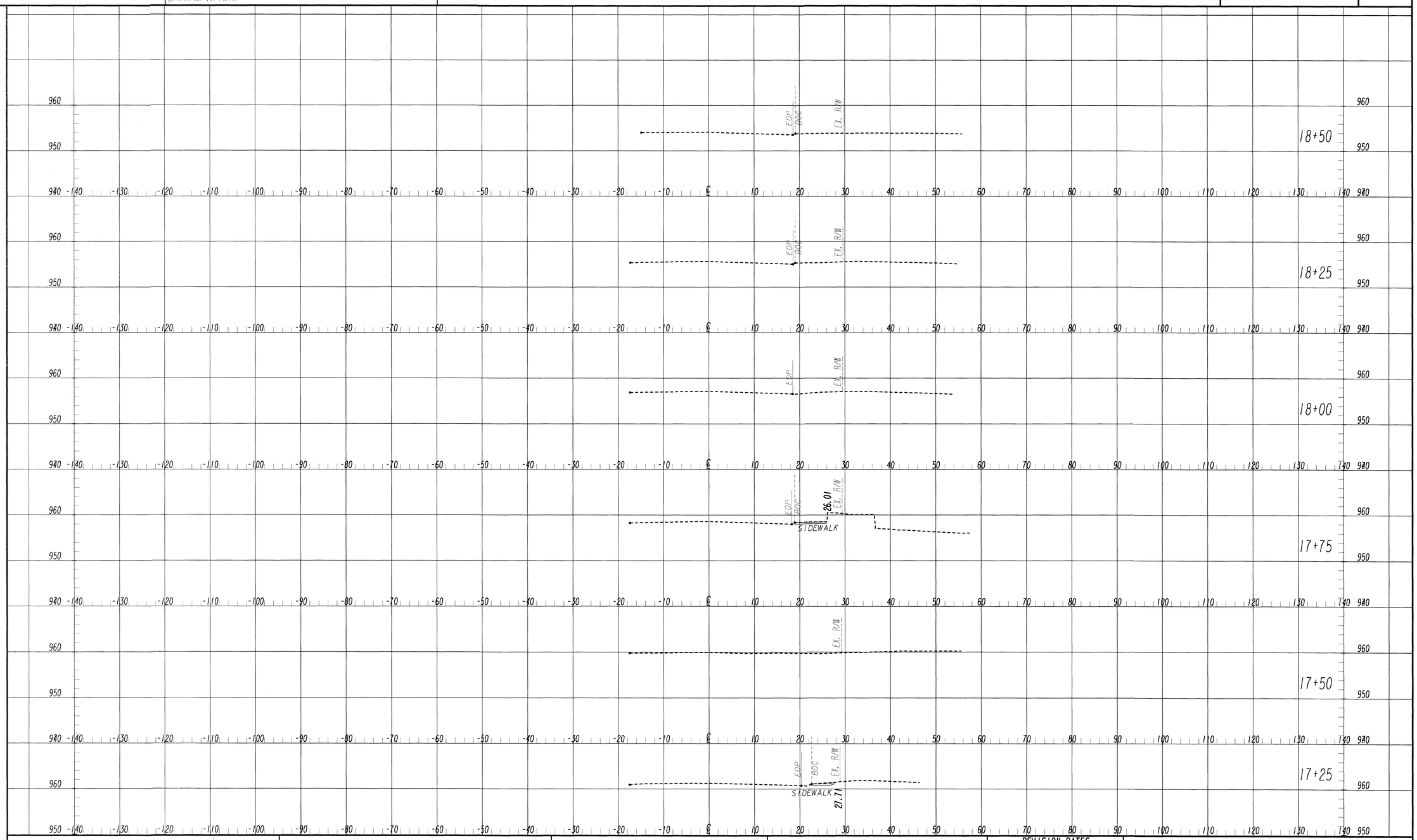
DRAWING No.
16



7/31/2015 SUXSEW

GEORGIA REGISTERED No. 029001 PROFESSIONAL ENGINEER THOMAS SCOTT FRANKS
5/11/18

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

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0 10 20 40

REVISION DATES

CROSS SECTIONS
NORTHWOOD DR

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DRAWING No.
17

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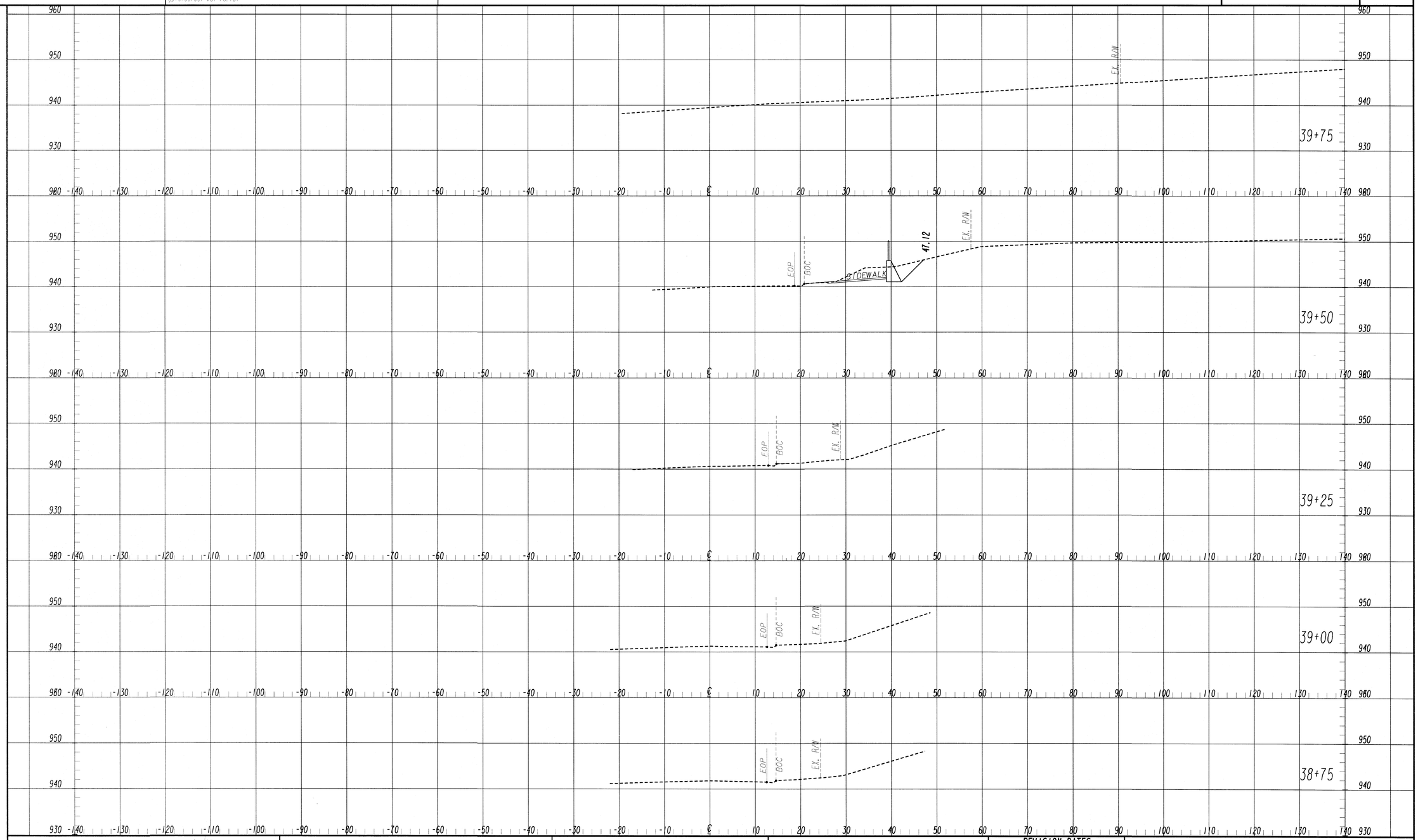
CITY OF SANDY SPRINGS

P.I. No.



7/31/2015 SUXSEW

GEORGIA REGISTERED No. 026007 PROFESSIONAL ENGINEER THOMAS SCOTT FRANCIS 5/11/18

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

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0 10 20 40

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KINGSPORT DR

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BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
18

EXISTING OVERHEAD	OVERHEAD TO BE REMOVED	PROPOSED OVERHEAD	TYPE OF UTILITY
E	E	E	ELECTRIC
E-T	E-T	E-T	
E-TV	E-TV	E-TV	
E-TC	E-TC	E-TC	
E-T-TV	E-T-TV	E-T-TV	
E-T-TV-TC	E-T-TV-TC	E-T-TV-TC	
E-TV-TC	E-TV-TC	E-TV-TC	
E-T-TC	E-T-TC	E-T-TC	
GW	GW	GW	
T	T	T	TELECOMMUNICATIONS
T-TC	T-TC	T-TC	
T-TV-TC	T-TV-TC	T-TV-TC	
T-TV	T-TV	T-TV	
TV	TV	TV	CABLE TV
TV-TC	TV-TC	TV-TC	
TC	TC	TC	TRAFFIC CONTROL

EXISTING UNDERGROUND	UNDERGROUND TO BE REMOVED	PROPOSED UNDERGROUND	TYPE OF UTILITY
E	E	E	ELECTRIC (QL-D)
E(C)	E(C)		ELECTRIC (QL-C)
E(B)	E(B)		ELECTRIC (QL-B)
T	T	T	TELECOMMUNICATIONS (QL-D)
T(C)	T(C)		TELECOMMUNICATIONS (QL-C)
T(B)	T(B)		TELECOMMUNICATIONS (QL-B)
TV	TV	TV	CABLE TV (QL-D)
TV(C)	TV(C)		CABLE TV (QL-C)
TV(B)	TV(B)		CABLE TV (QL-B)
W	W	W	WATER (QL-D)
W(C)	W(C)		WATER (QL-C)
W(B)	W(B)		WATER (QL-B)
**W	**W	**W	WATER FOR LABELED PIPE SIZES (QL-D)
**W(C)	**W(C)		WATER FOR LABELED PIPE SIZES (QL-C)
**W(B)	**W(B)		WATER FOR LABELED PIPE SIZES (QL-B)
NW	NW	NW	NON-POTABLE WATER (QL-D)
NW(C)	NW(C)		NON-POTABLE WATER (QL-C)
NW(B)	NW(B)		NON-POTABLE WATER (QL-B)
**NW	**NW	**NW	NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-D)
**NW(C)	**NW(C)		NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-C)
**NW(B)	**NW(B)		NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-B)
STM	STM	STM	STEAM (QL-D)
STM(C)	STM(C)		STEAM (QL-C)
STM(B)	STM(B)		STEAM (QL-B)
**STM	**STM	**STM	STEAM FOR LABELED PIPE SIZES (QL-D)
**STM(C)	**STM(C)		STEAM FOR LABELED PIPE SIZES (QL-C)
**STM(B)	**STM(B)		STEAM FOR LABELED PIPE SIZES (QL-B)
SS	SS	SS	SANITARY SEWER WITH FLOW DIRECTION (QL-D)
SS(C)	SS(C)		SANITARY SEWER WITH FLOW DIRECTION (QL-C)
SS(B)	SS(B)		SANITARY SEWER WITH FLOW DIRECTION (QL-B)
Σ**SS	Σ**SS	Σ**SS	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-D)
Σ**SS(C)	Σ**SS(C)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-C)
Σ**SS(B)	Σ**SS(B)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-B)
SFM	SFM	SFM	SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-D)
SFM(C)	SFM(C)		SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-C)
SFM(B)	SFM(B)		SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-B)
G	G	G	GAS (QL-D)
G(C)	G(C)		GAS (QL-C)
G(B)	G(B)		GAS (QL-B)
**G	**G	**G	GAS FOR LABELED PIPE SIZES (QL-D)
**G(C)	**G(C)		GAS FOR LABELED PIPE SIZES (QL-C)
**G(B)	**G(B)		GAS FOR LABELED PIPE SIZES (QL-B)
P	P	P	PETROLEUM (QL-D)
P(C)	P(C)		PETROLEUM (QL-C)
P(B)	P(B)		PETROLEUM (QL-B)
**P	**P	**P	PETROLEUM FOR LABELED PIPE SIZES (QL-D)
**P(C)	**P(C)		PETROLEUM FOR LABELED PIPE SIZES (QL-C)
**P(B)	**P(B)		PETROLEUM FOR LABELED PIPE SIZES (QL-B)
TC	TC	TC	TRAFFIC CONTROL (QL-D)
TC(C)	TC(C)		TRAFFIC CONTROL (QL-C)
TC(B)	TC(B)		TRAFFIC CONTROL (QL-B)
UNK(B)	UNK(B)		UNKNOWN UTILITY FOUND IN SUE INVESTIGATION (QL-B)

UTILITY LEGEND

UTILITY CELLS

EXISTING	PROPOSED	TEMPORARY	
E	E	E	ELECTRIC MANHOLE
H	H	H	HAND HOLE
E	E	E	TRANSFORMER
E	E	E	ELECTRIC METER
			UTILITY POLE/GUY POLE
			LIGHT POLE
			GUY ANCHOR
E	E	E	ELECTRIC BOX
M	M	M	MARKER
T	T	T	TELECOMMUNICATIONS MANHOLE
T	T	T	TELECOMMUNICATIONS PEDESTAL
X	X	X	SPLICE BOX
SLC	SLC	SLC	SUBCRIBER LOOP CARRIER (aka "SLICK")
			CABINET
			PHONE BOOTH
			CABLE TV PEDESTAL
TV	TV	TV	CABLE TV MANHOLE
W	W	W	WATER VALVE
W	W	W	WATER METER
W	W	W	WATER MANHOLE
			FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)
BFP	BFP	BFP	BACKFLOW PREVENTER
PIV	PIV	PIV	PRESSURE INDICATOR VALVE
ARV	ARV	ARV	AIR RELEASE VALVE

EXISTING	PROPOSED	TEMPORARY	
W	W	W	WELL
W	W	W	WATER VAULT
W	W	W	WATER VALVE MARKER
			STAND PIPE
			CLEANOUT
SS	SS	SS	SANITARY SEWER MANHOLE
ARV	ARV	ARV	AIR RELEASE VALVE
GT	GT	GT	GREASE TRAP
S	S	S	SANITARY SEWER FORCE MAIN VALVE
			VENT
G	G	G	GAS VALVE
G	G	G	GAS METER
G	G	G	GAS MANHOLE
GPR	GPR	GPR	GAS PRESSURE REGULATOR
G	G	G	GAS VAULT
GTS	GTS	GTS	GAS TEST STATION
P	P	P	PETROLEUM VALVE

MISC.

LOS	LIMITS OF OVERHEAD AND SUBSURFACE UTILITY INVESTIGATION
TH	TEST HOLE (QL-A ONLY)
EOI	END OF INFORMATION
	QUALITY LEVEL (QL) DELINEATION
123	POLE ID
A01	SANITARY SEWER MANHOLE (SSMH) ID

QUALITY LEVELS AND DEFINITIONS

QL-D DEPICTED ACCORDING TO UTILITY RECORD INFORMATION AND IN-FIELD VISUAL INSPECTION. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

QL-C EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN DEPICTING THE UTILITIES SHOWN ON RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

QL-B INFORMATION WAS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. QL-B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

QL-A OBTAIN PRECISE HORIZONTAL AND VERTICAL POSITION OF THE UTILITY LINE BY EXCAVATING A TEST HOLE. THE TEST HOLE SHALL BE DONE USING VACUUM EXCAVATION OR COMPARIABLE NONDESTRUCTIVE EQUIPMENT IN A MANNER AS TO CAUSE NO DAMAGE TO THE UTILITY LINE. AFTER EXCAVATING A TEST HOLE, A FIELD SURVEY SHALL BE PERFORMED TO DETERMINE THE EXACT LOCATION AND POSITION OF THE UTILITY LINE.

ABBREVIATIONS:

R.T.	Remote Terminal
PVC	Polyvinyl Chloride Pipe
DIP	Ductile Iron Pipe
SSMH	Sanitary Sewer Manhole
EOI	End of Information
STL	Steel
MH	Manhole
PL	Plastic
MP	Medium Pressure
HP	High Pressure
PE	Polyethylene
RIP	Retired In Place
CI	Cast Iron
TC	Terra Cotta
PCP	Pressurized Concrete Pipe
HDPE	High Density Polyethylene
CT	Count
FO	Fiber Optic
OH	Overhead
PR	Pair
REG	Regulator

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

PLANS PREPARED FOR:

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GEORGIA

PLANS PREPARED AND SUBMITTED BY:

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GEORGIA REGISTERED No. 028001 PROFESSIONAL ENGINEER TRANSPORTATION FIELD

REVISION DATES

UTILITY LEGEND
NORTHWOOD DR

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		19
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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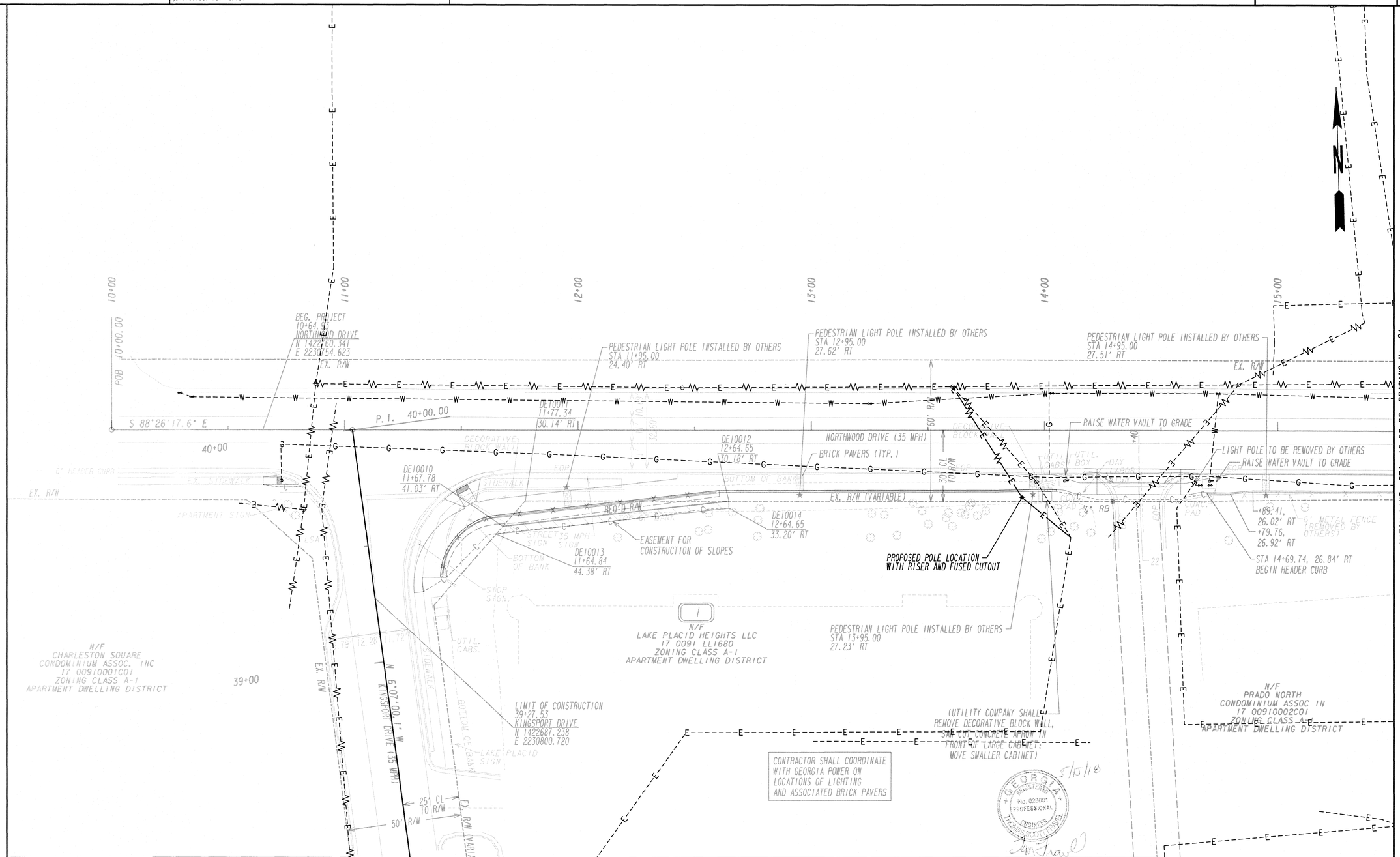
CITY OF SANDY SPRINGS

P.I. No.



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

10/23/2015 GPLN

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

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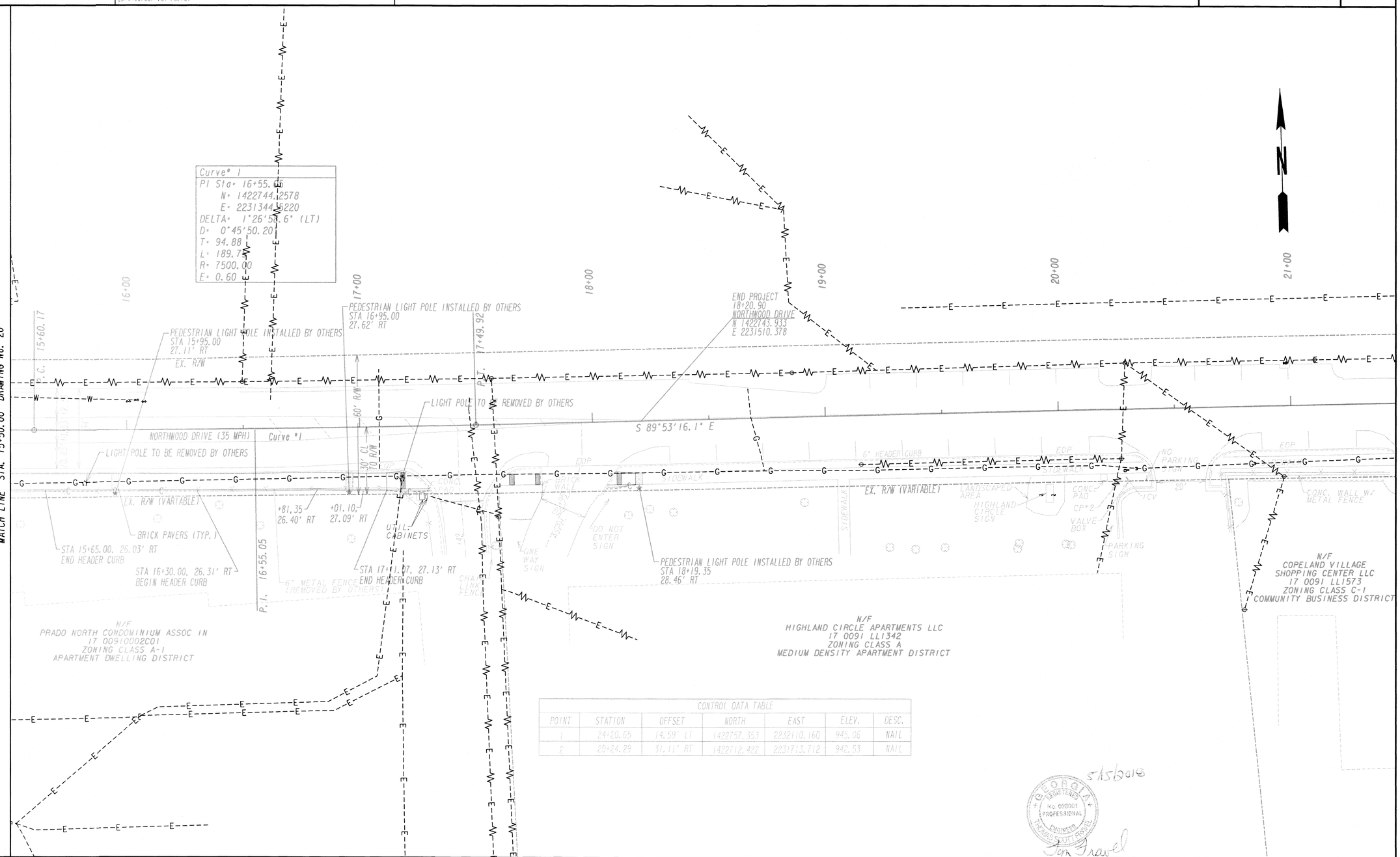
SCALE IN FEET
0 20 40 80

REVISION DATES

UTILITY PLAN
NORTHWOOD DR

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
20



CONTROL DATA TABLE

POINT	STATION	OFFSET	NORTH	EAST	ELEV.	DESC.
1	24+20.65	14.59' LT	1422757.353	2232110.160	945.06	NAIL
2	20+24.29	31.11' RT	1422712.422	2231713.712	940.53	NAIL

GEORGIA REGISTERED No. 023001 PROFESSIONAL ENGINEER THOMAS SCOTT PRATT
5/15/2018

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

10/23/2015 GPLN

PLANS PREPARED FOR:
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GEORGIA

PLANS PREPARED AND SUBMITTED BY:
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0 20 40 80

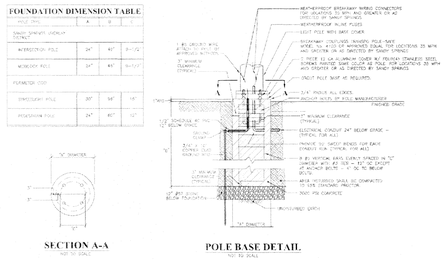
REVISION DATES

UTILITY PLAN
NORTHWOOD DR

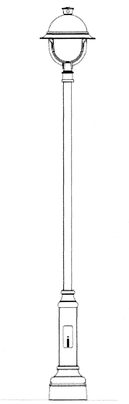
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
21

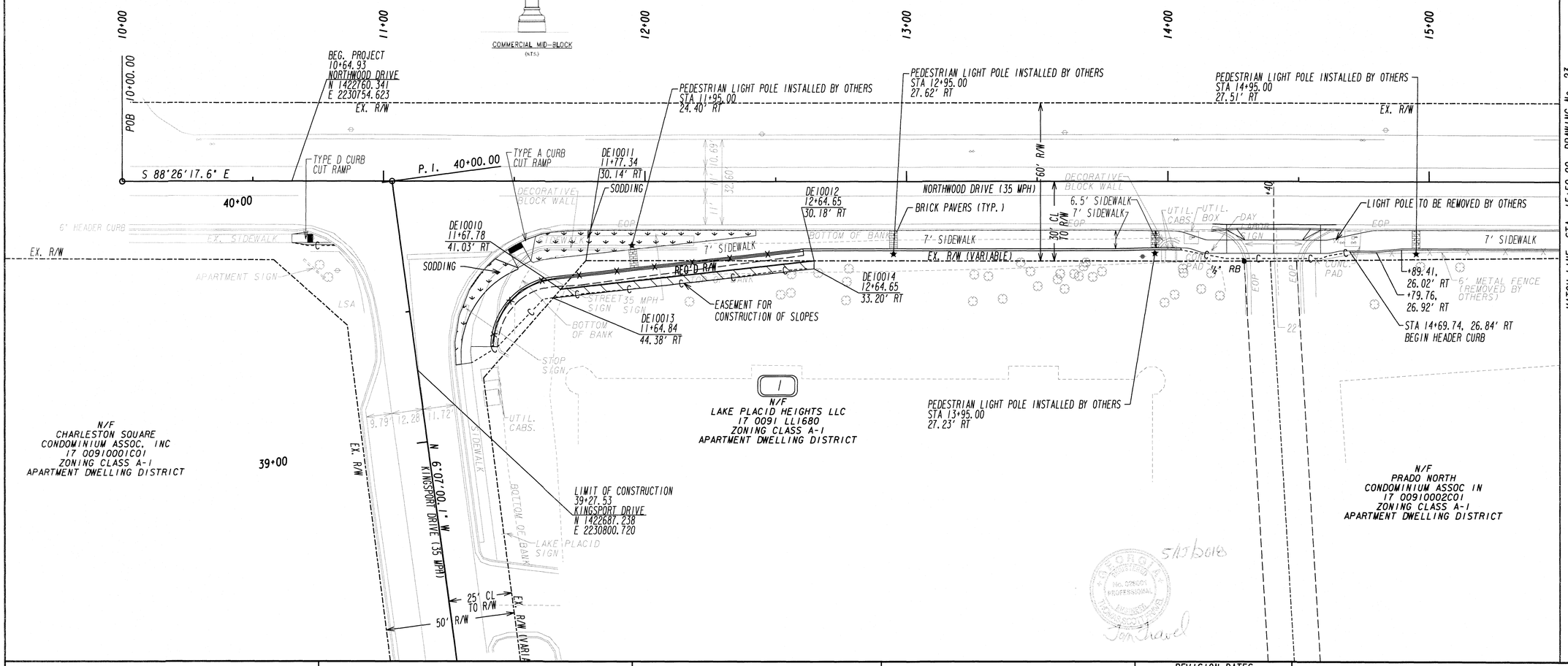
APPENDIX A – LIGHT POLE FOUNDATION DETAIL
(INSTALLED BY OTHERS)



APPENDIX B – FIXTURE POLE DETAIL
(INSTALLED BY OTHERS)



COMMERCIAL MID-BLOCK
(N.T.S.)



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

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0 20 40 80

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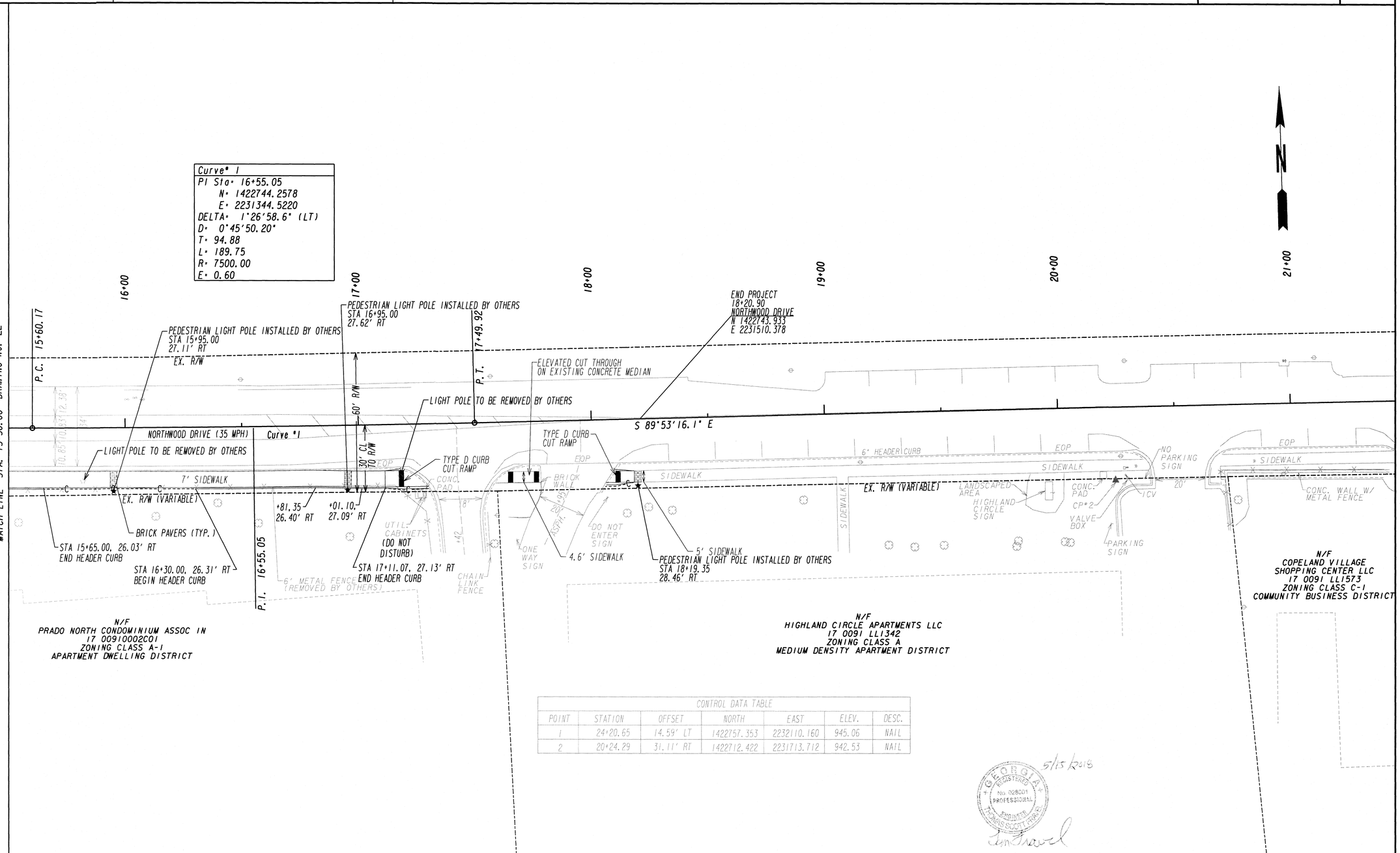
LIGHTING PLAN
NORTHWOOD DR

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		22
CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015 GPLN



CONTROL DATA TABLE						
POINT	STATION	OFFSET	NORTH	EAST	ELEV.	DESC.
1	24+20.65	14.59' LT	1422757.353	2232110.160	945.06	NAIL
2	20+24.29	31.11' RT	1422712.422	2231713.712	942.53	NAIL

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5/15/2018

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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REVISION DATES

LIGHTING PLAN
NORTHWOOD DR

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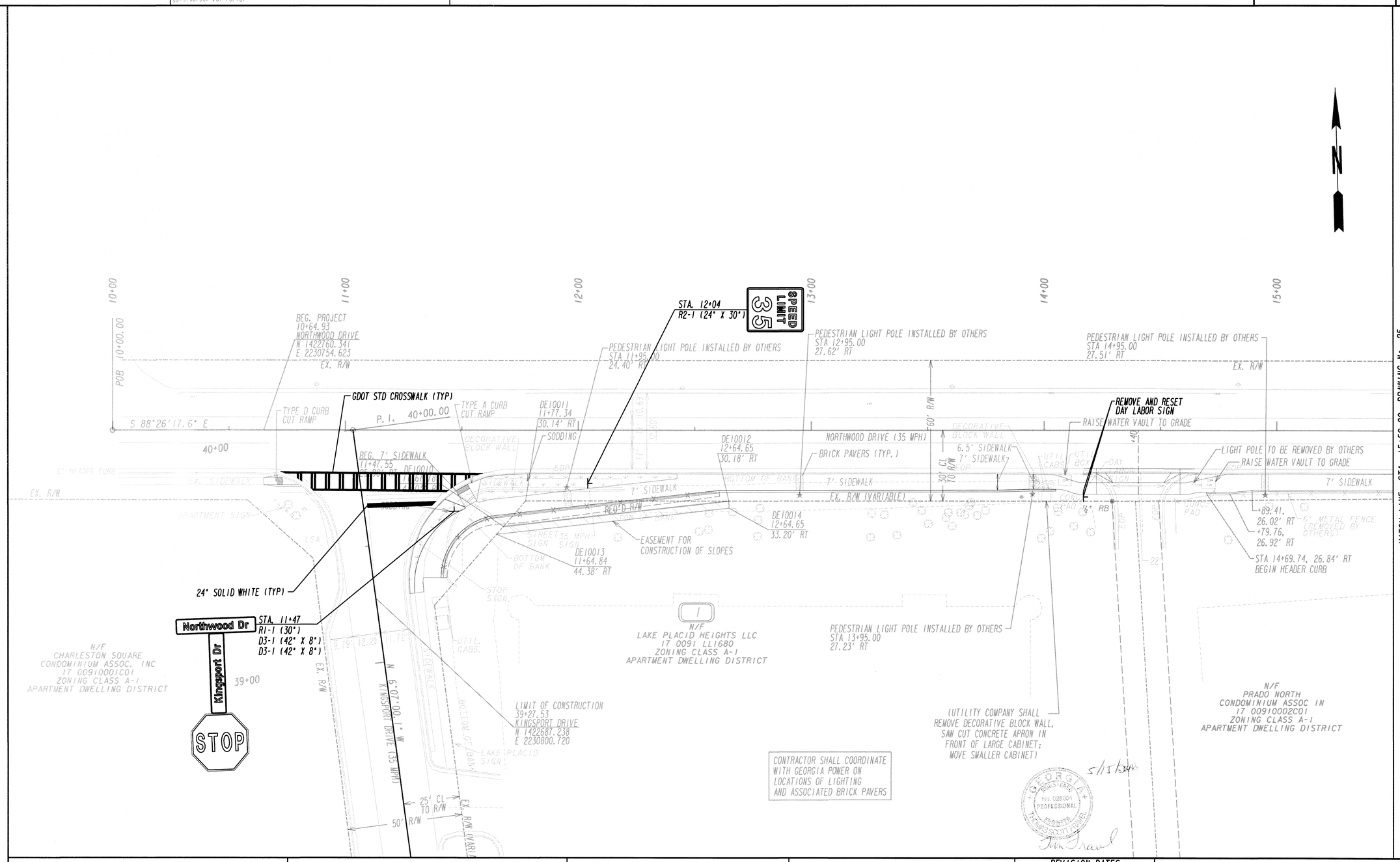
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 23

10/23/2015 GPLN



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
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0 20 40 80

REVISION DATES

SIGNING AND MARKING PLAN
NORTHWOOD DR

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BACKCHECKED:		DATE:	
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VERIFIED:		DATE:	

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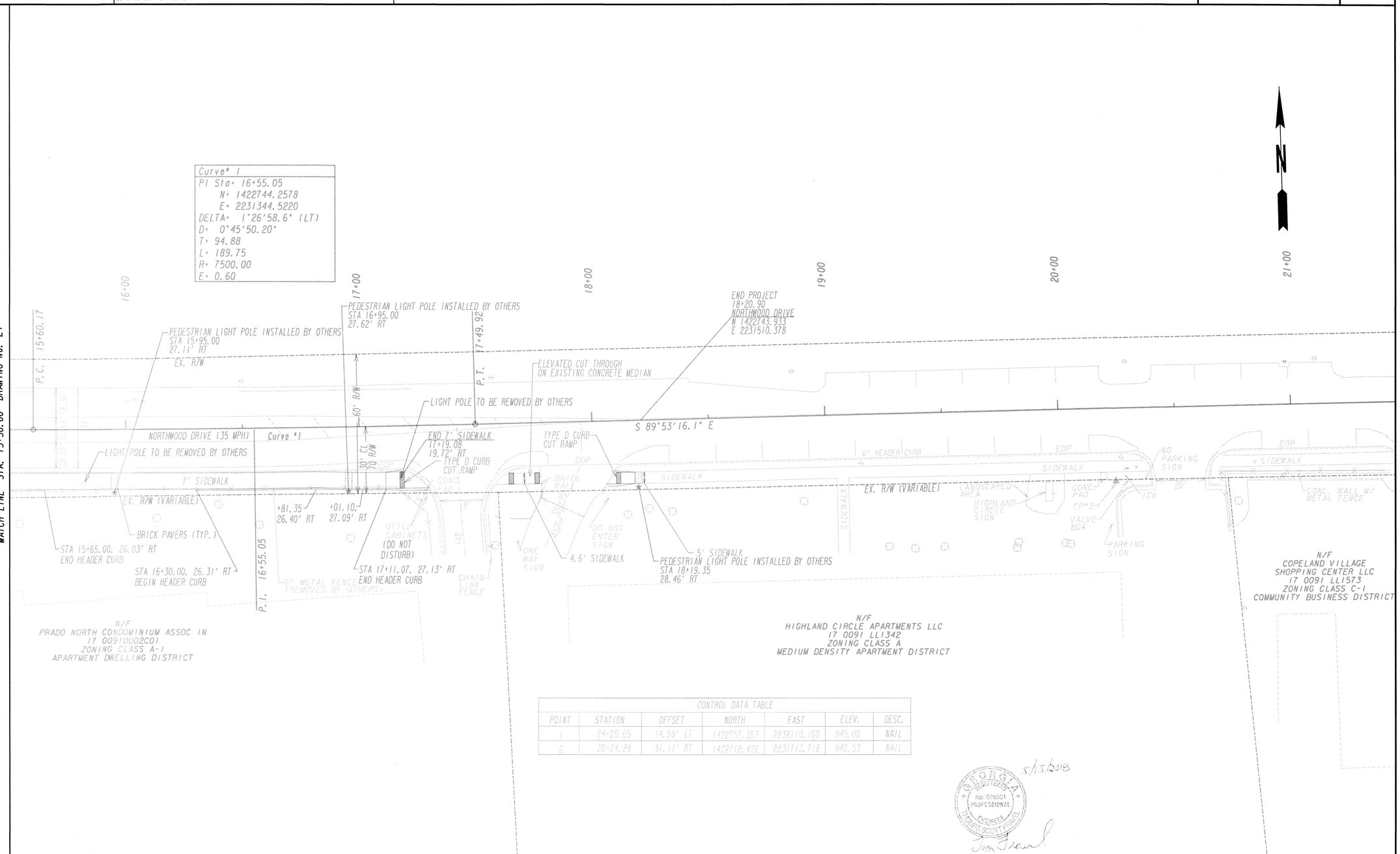
24



CONTROL DATA TABLE

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2	20+24.29	31.11' RT	1422712.422	2231713.712	942.53	NAIL

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5/15/2018

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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0 20 40 80

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NORTHWOOD DR

CHECKED:		DATE:	
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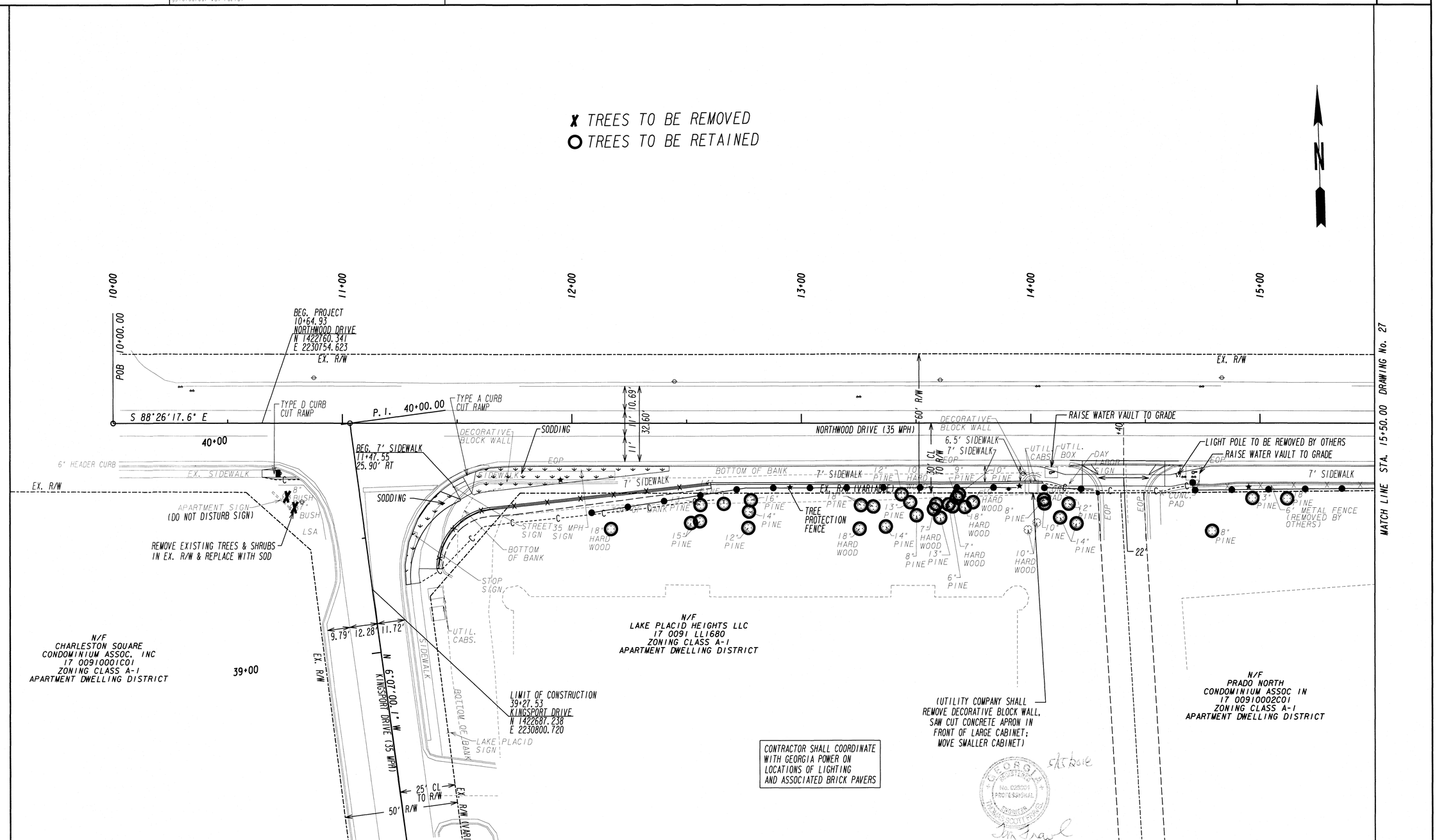
VERIFIED:		DATE:	

DRAWING No.
25

10/23/2015 GPLN



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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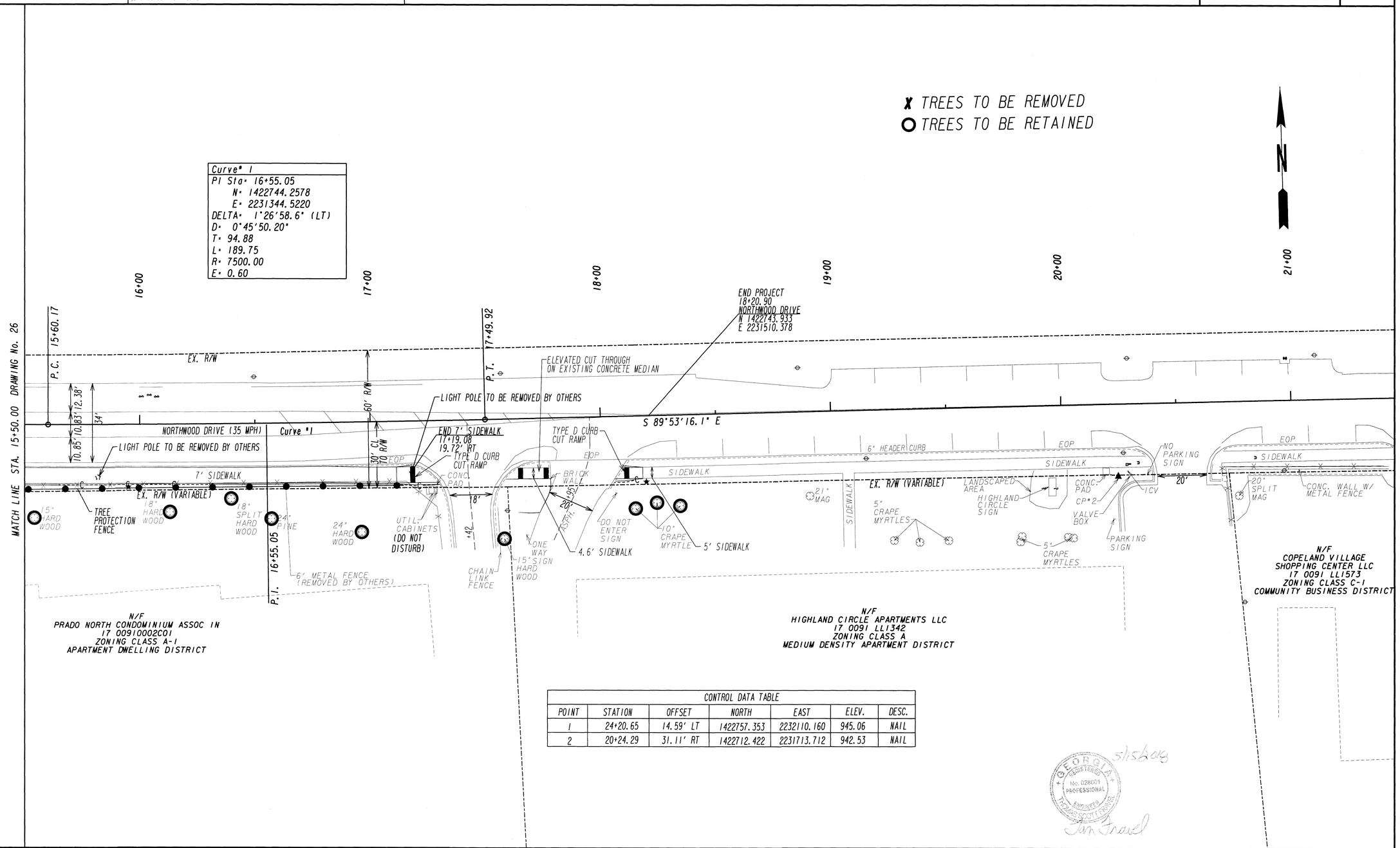
REVISION DATES

TREE/LANDSCAPING PLAN
NORTHWOOD DR

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		26
CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015 GPLN



CONTROL DATA TABLE						
POINT	STATION	OFFSET	NORTH	EAST	ELEV.	DESC.
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2	20+24.29	31.11' RT	1422712.422	2231713.712	942.53	NAIL

GEORGIA REGISTERED No. 028001 PROFESSIONAL ENGINEER THOMAS SCOTT FRANCE

5/15/2018

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

PLANS PREPARED FOR:

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Louisville, KY 40223
(502) 245-3813

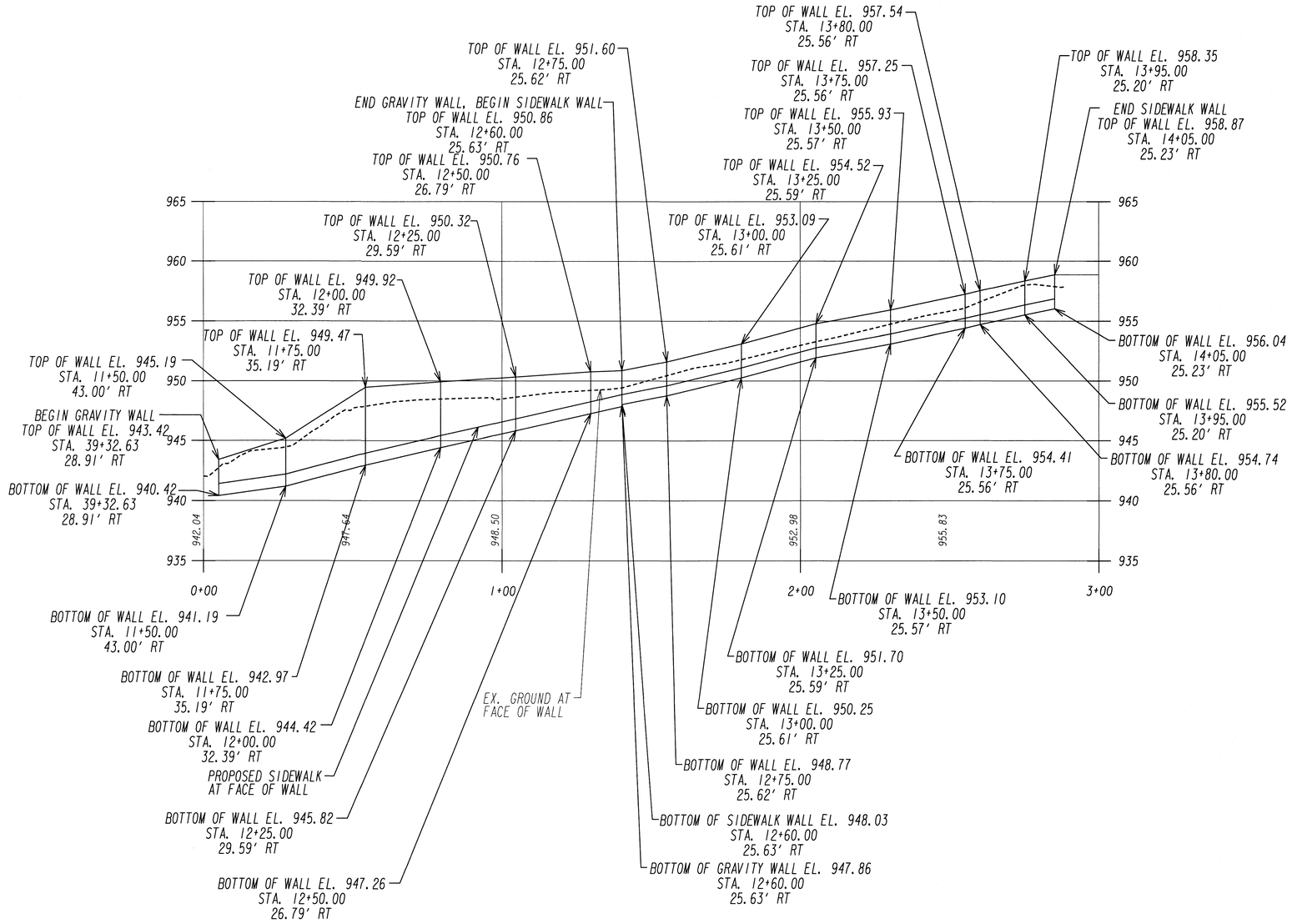
SCALE IN FEET
0 20 40 80

REVISION DATES

TREE/LANDSCAPING PLAN
NORTHWOOD DR

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		27
CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015 GPLN



GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 026001 THOMAS SCOTT HAWKS
5/15/2018

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

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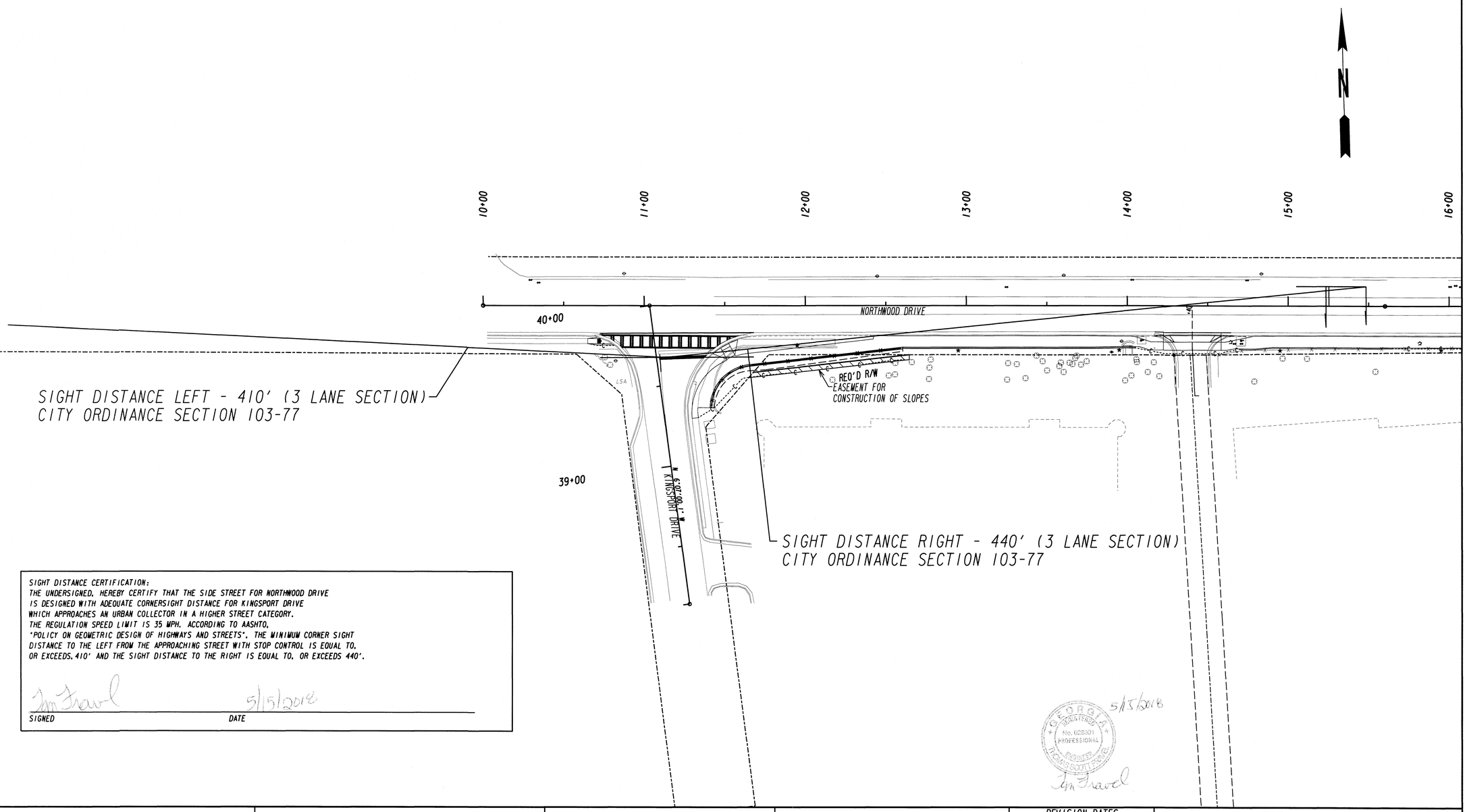
1" = 20' HORIZONTAL
1" = 5' VERTICAL

REVISION DATES

RETAINING WALL ENVELOPES
NORTHWOOD DR

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
28



SIGHT DISTANCE CERTIFICATION:
THE UNDERSIGNED, HEREBY CERTIFY THAT THE SIDE STREET FOR NORTHWOOD DRIVE IS DESIGNED WITH ADEQUATE CORNERSIGHT DISTANCE FOR KINGSPORT DRIVE WHICH APPROACHES AN URBAN COLLECTOR IN A HIGHER STREET CATEGORY. THE REGULATION SPEED LIMIT IS 35 MPH. ACCORDING TO AASHTO, "POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS", THE MINIMUM CORNER SIGHT DISTANCE TO THE LEFT FROM THE APPROACHING STREET WITH STOP CONTROL IS EQUAL TO, OR EXCEEDS, 410' AND THE SIGHT DISTANCE TO THE RIGHT IS EQUAL TO, OR EXCEEDS 440'.

Tom Travel 5/15/2018
SIGNED DATE

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

PLANS PREPARED FOR:
SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:
AEI
Branch Offices
65 Aberdeen Drive, Glasgow, KY 42141, (270) 651-7220
1634 White Circle, Suite 101, Marietta, GA 30066, (770) 421-8422
2500 Nelson Miller Parkway, Louisville, KY 40223, (502) 245-3813
AMERICAN ENGINEERS, INC.
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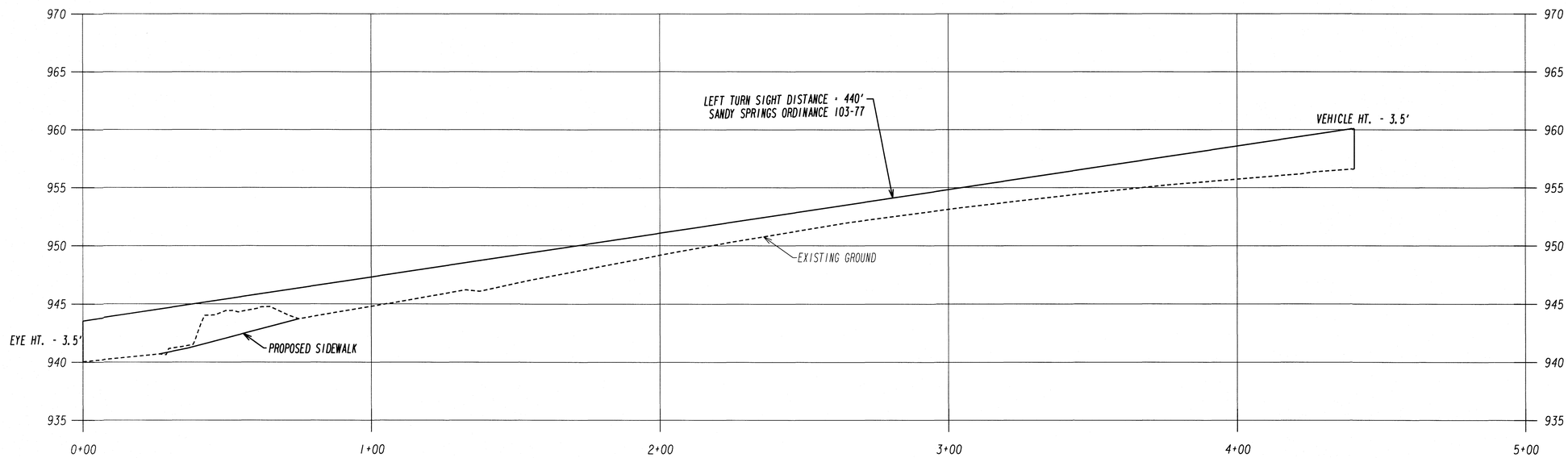
DESIGN CONSULTANT

SCALE IN FEET
0 30 60 120

REVISION DATES

SIGHT DISTANCE CHECK
NORTHWOOD DR

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	29
CORRECTED:		DATE:	
VERIFIED:		DATE:	



5/15/2018

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

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1" = 20' HORIZONTAL
1" = 5' VERTICAL

REVISION DATES

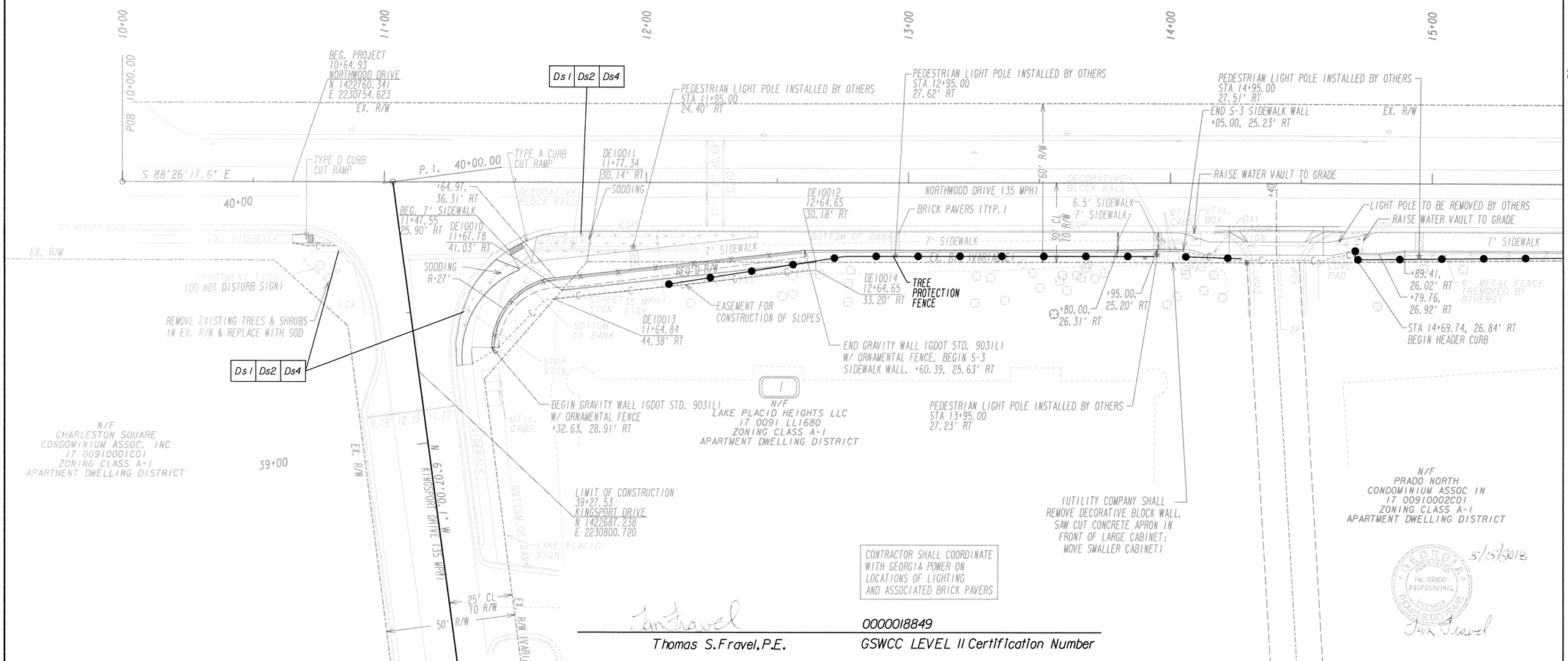
VERTICAL SIGHT DISTANCE CHECK
NORTHWOOD DR

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
30

10/23/2015 GPLN

LEGEND	
Ds1	MULCH
Ds2	TEMPORARY GRASSING
Ds4	SODDING
—●——●—	TREE FENCE



5/15/2018

0000018849

Thomas S. Fravel, P.E. — GSWCC LEVEL II Certification Number

PROPERTY AND EXISTING R/W LINE	——P——
REQUIRED R/W LINE	————
CONSTRUCTION LIMITS	——C——F——
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

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SCALE IN FEET
0 20 40 80

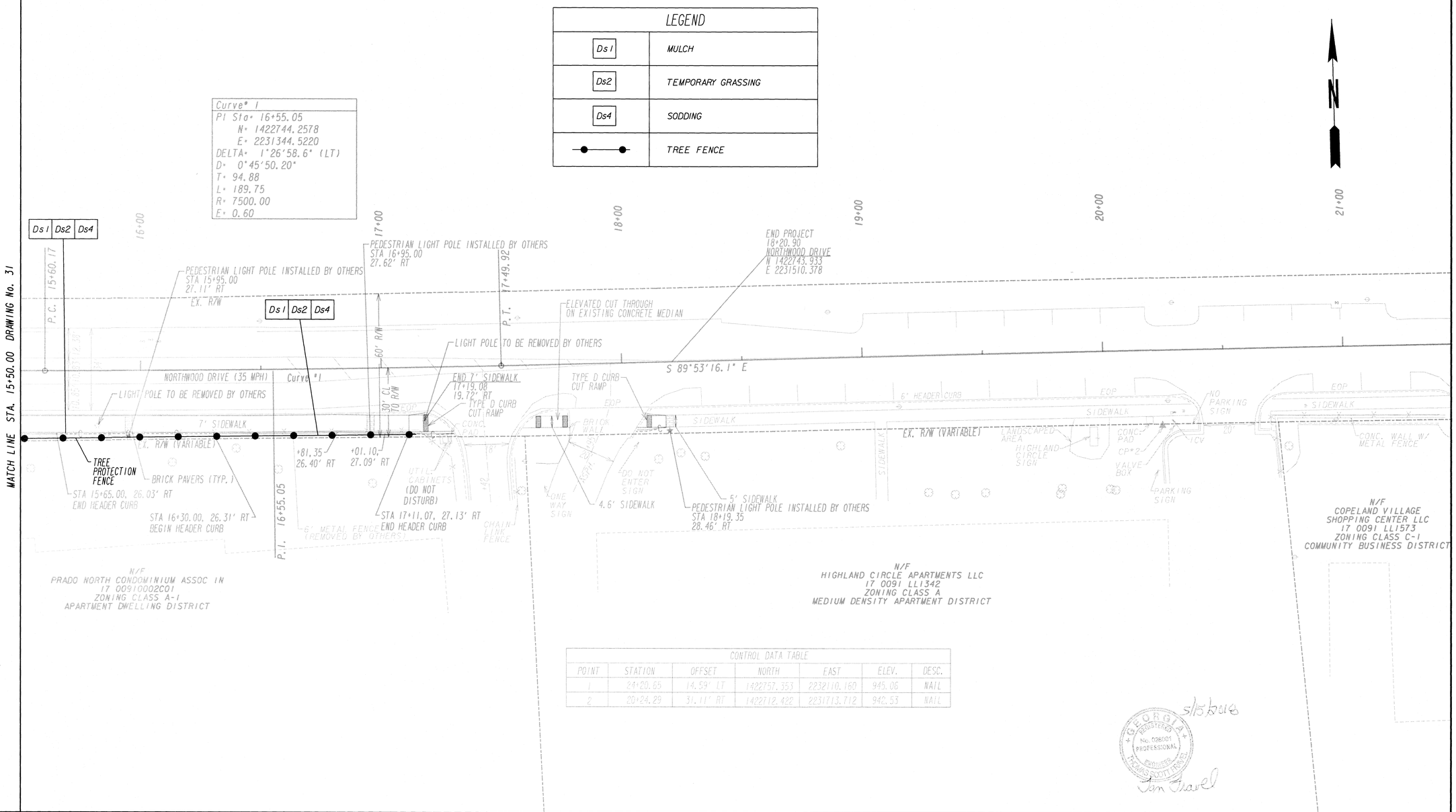
REVISION DATES

BMP LOCATION DETAILS
NORTHWOOD DR

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		31
CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015 GPLN

LEGEND	
Ds1	MULCH
Ds2	TEMPORARY GRASSING
Ds4	SODDING
—●—●—	TREE FENCE



CONTROL DATA TABLE						
POINT	STATION	OFFSET	NORTH	EAST	ELEV.	DESC.
1	24+20.65	14.59' LT	1422757.353	2232110.160	945.06	NAIL
2	20+24.29	31.11' RT	1422712.422	2231713.712	942.53	NAIL

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 026005 THOMAS SCOTT FRISCO
5/15/2018
Tom Frisco

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

PLANS PREPARED FOR:
SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:
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SCALE IN FEET
0 20 40 80

REVISION DATES

BMP LOCATION DETAILS
NORTHWOOD DR

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 32

GEORGIA
UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

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

STRUCTURAL PRACTICES

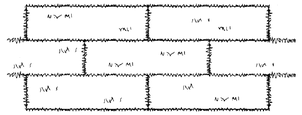
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm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

VEGETATIVE PRACTICES

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

GaSWCC (Amended - 2013)

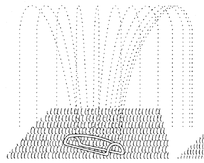
SODDING



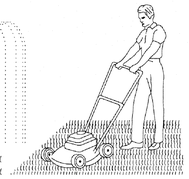
LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

BUTTING - ANGLED ENDS CAUSED BY THE AUTO-MATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

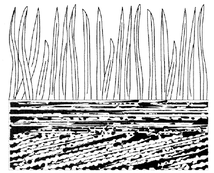


WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.



MOW WHEN THE SOD IS ESTABLISHED - IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD



SHOOTS OR GRASS BLADES. GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

THATCH - GRASS CLIPPINGS AND DEAD LEAVES. UP TO 1/2" THICK.

ROOT ZONE - SOIL AND ROOTS SHOULD BE 1/2" - 3/4" THICK, WITH DENSE ROOT MAT FOR STRENGTH.

Source: Va. DSWC

Figure 6-6.2

GEORGIA REGISTERED No. 028001 PROFESSIONAL ENGINEER THOMAS SCOTT FINNELL 5/15/2018

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

AEI
Branch Offices
○ 65 Aberdeen Drive, Glasgow, KY 42141, (270) 651-7220
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DESIGN CONSULTANT

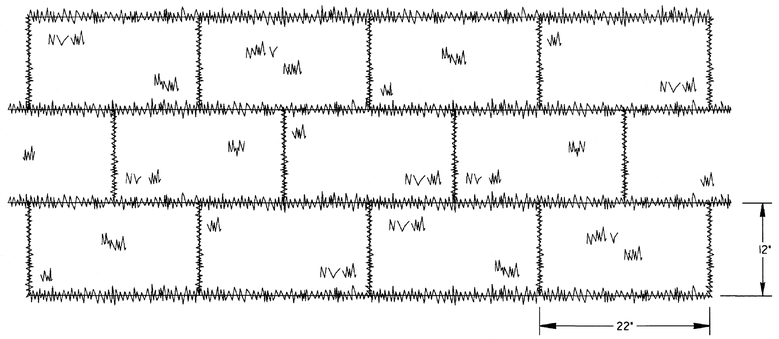
REVISION DATES

EROSION CONTROL DETAILS
NORTHWOOD DR

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		33
CORRECTED:		DATE:		
VERIFIED:		DATE:		

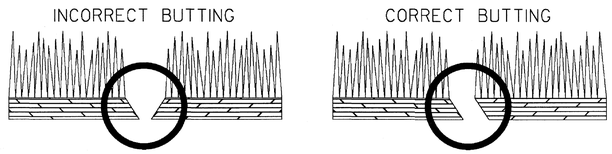
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

SOD LAYOUT

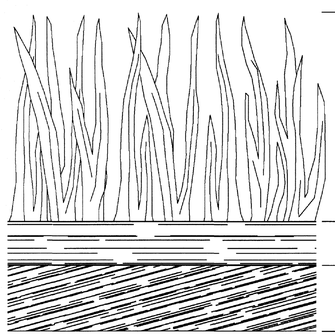


NOTE: SOD MAY BE EITHER 12" WIDE BY 22' LONG BLOCKS OR 21" WIDE BY 52' LONG ROLLS.

ABUTTING SOD



SOD APPEARANCE



GENERAL NOTES:

1. SOD SHALL MEET SECTIONS 700 AND 890 OF THE STANDARD SPECIFICATIONS AND SUPPLEMENTS THERETO. SOD SHALL BE CUT INTO 12"W×22"L BLOCKS OR 21"W×52'L ROLLS.
2. PLACE SOD IN A STAGGERED PATTERN ENSURING FIRM CONTACT WITH THE SOIL. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER WITH THE AUTOMATIC SOD CUTTER ANGLES CORRECTLY MATCHED WITHOUT SPACES OR OVERLAP.
3. PLACE THE LONG SIDE OF SOD PERPENDICULAR TO DRAINAGE FLOW IF INSTALLED IN DITCHES.
4. STAKE SOD PLACED IN DITCHES OR SLOPES STEEPER THAN 2:1 OR ANY OTHER AREAS WHERE SOD SLIPPING MAY OCCUR. USE WOOD STAKES THAT ARE A MINIMUM OF 8" LONG AND A MAXIMUM OF 1" WIDE. DRIVE STAKES FLUSH WITH THE TOP OF SOD AND USE A MINIMUM OF 8 STAKES PER SQUARE YARD TO HOLD SOD IN PLACE.
5. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
6. WATER THE SOD IMMEDIATELY AFTER INSTALLATION AND WATER TO A DEPTH OF 4" AS NEEDED.
7. MOW ESTABLISHED SOD TO A HEIGHT NOT LESS THAN 2"-3" AS NECESSARY.

PAY ITEM:
700-9300 SOD (SY)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

SOD INSTALLATION

NO SCALE 4-22-2016

DATE | REVISION | BY

DESIGNED ____
DRAWN DLE
TRACED ____
CHECKED ____

NUMBER D-54

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

AEI
Branch Offices
O 65 Aberdeen Drive Glasgow, KY 42141 (270) 651-7220
O 2500 Nelson Miller Parkway Louisville, KY 40223 (502) 245-3813
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GEORGIA REGISTERED No. 023001 PROFESSIONAL ENGINEER THOMAS SCOTT TRAVEL
5/15/2018

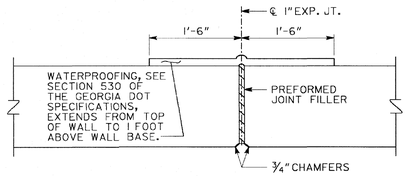
REVISION DATES

EROSION CONTROL DETAILS
NORTHWOOD DR

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

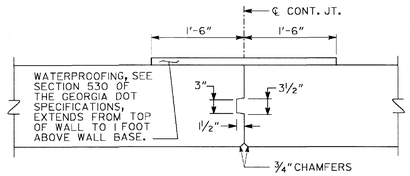
DRAWING No. 34

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



DETAIL OF EXPANSION JOINT

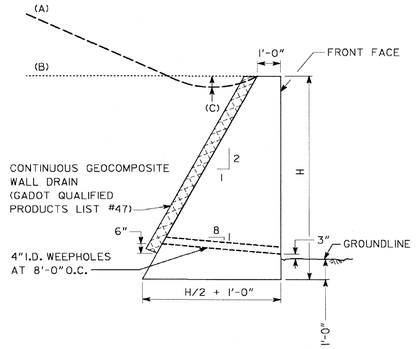
SEE GENERAL NOTE #3



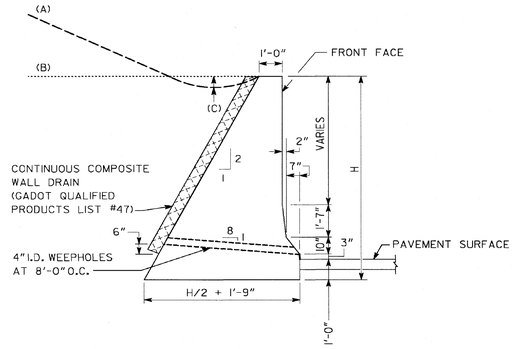
DETAIL OF CONTRACTION JOINT

SEE GENERAL NOTE #3

(A) - SLOPED BACKFILL WITH DITCH
(B) - FLAT BACKFILL
(C) - DITCH DEPTH, 6" - 12" TYPICAL
SEE PLANS FOR DESIGN

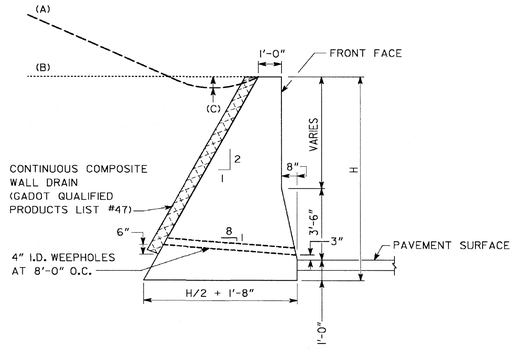


TYPICAL SECTION A



TYPICAL SECTION B

(NEW JERSEY BARRIER FACE)



TYPICAL SECTION C

(SINGLE SLOPE BARRIER FACE)

MAXIMUM "H" *			
BACKSLOPE	TYP. SECTION A	TYP. SECTION B **	TYP. SECTION C **
FLAT	8'-6"	10'-0"	10'-0"
SLOPE TO 4:1	6'-3"	7'-0"	7'-0"
SLOPE TO 2:1	4'-6"	4'-9"	4'-9"

* GREATER "H" PERMITTED IF APPROVED BY BRIDGE DESIGN.

** TYPICAL SECTION B SHALL HAVE A MINIMUM H OF 3'-8"
TYPICAL SECTION C SHALL HAVE A MINIMUM H OF 4'-6"

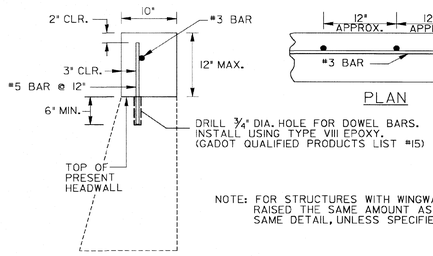
GENERAL NOTES:

1. GRAVITY WALLS SHALL NOT BE USED WHEN HORIZONTAL DISTANCE FROM EDGE OF TRAVEL WAY TO FRONT FACE OF WALL IS LESS THAN (H + 1'0").
2. GRAVITY WALLS DESIGNED FOR THE FOLLOWING SOIL PROPERTIES:

	FOUNDATION	BACKFILL
COHESION =	0 PSF	0 PSF
θ =	28°	28°
UNIT WEIGHT =	120 PCF	120 PCF

3. EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 90'-0" AND EXTEND THROUGH THE WALL. CONTRACTION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 30' - 0".
4. GRAVITY WALLS WITH A VERTICAL FRONT FACE SHALL BE PAID FOR AS "CLASS B CONCRETE OR MORTAR RUBBLE MASONRY, RETAINING WALL". GRAVITY WALLS WITH A BARRIER FRONT FACE SHALL BE PAID FOR AS "CLASS A CONCRETE, RETAINING WALL". WATERPROOFING, JOINT FILLER, WALL DRAIN, AND OTHER INCIDENTAL ITEMS SHALL BE INCLUDED IN OVERALL BID SUBMITTED.
5. A CONCRETE DITCH DETAIL FOR THE TOP OF THE WALL SHOULD BE INCLUDED IN THE ROADWAY PLANS WHEN WATER IS FLOWING TOWARDS THE BACK OF THE WALL. SEE CONSTRUCTION DETAIL D-49.
6. FINISH EXPOSED SURFACES OF THE WALL WITH A TYPE III FINISH.
7. APPLY GRAFFITI PROOF COATING AS PER SECTIONS 500 AND 838 OF THE GEORGIA DOT SPECIFICATIONS.
8. ALL NECESSARY FENCE AND HANDRAIL SHOULD BE INCLUDED IN THE ROADWAY PLANS WHEN APPROPRIATE.
9. GRAVITY WALL TYPICAL SECTIONS A, B, AND C HAVE BEEN DESIGNED PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2014.

DETAIL FOR RAISING HEADWALL

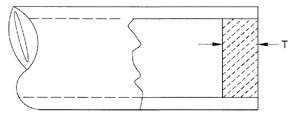


SECTION

PLAN

NOTE: FOR STRUCTURES WITH WINGWALLS, THE WINGS SHALL BE RAISED THE SAME AMOUNT AS THE HEADWALL, USING THIS SAME DETAIL, UNLESS SPECIFIED OTHERWISE.

TYPICAL PIPE PLUG



SECTION

NOTE: PLAN PAY QUANTITIES ARE TO REFLECT PIPE PLUGS AS CU. YDS. OF CL. B CONCRETE. ON CONSTRUCTION PLUGS MAY BE BUILT WITH BRICK MASONRY, MORTAR RUBBLE MASONRY, CL. A CONC., OR CL. B CONC. WITH NO ADJUSTMENT IN PAYMENT MADE FOR ALTERNATES.

D	T (MIN)	PIPE PLUG (CU. YDS.)
12"	8"	0.0194
15"	8"	0.0303
18"	8"	0.0436
24"	8"	0.0776
30"	8"	0.1212
36"	8"	0.1745
42"	8"	0.2376
48"	8"	0.3103
54"	12"	0.5890
60"	12"	0.7272
66"	12"	0.8799
72"	12"	1.0472

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
GRAVITY WALL TYPICAL SECTIONS, RAISING HEADWALL, AND TYPICAL PIPE PLUG

NO SCALE: REV. & REDR. SEPT, 2016

REV. & C.E.W. REDR. (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.
CHK. D.D.F. (APPROVED) STATE HIGHWAY ENGINEER

NUMBER 9031L
SHEET 1 OF 2

PLANS PREPARED FOR:
SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:
AMERICAN ENGINEERS, INC.
Branch Offices
65 Aberdeen Drive, Glasgow, KY 42141, (270) 651-7220
1634 White Circle, Suite 101, Marietta, GA 30066, (770) 42-8422
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PROFESSIONAL ENGINEERING
DESIGN CONSULTANT

GEORGIA REGISTERED No. 028001 PROFESSIONAL ENGINEER THOMAS SCOTT PAVEL
5/15/2018

REVISION DATES

CONSTRUCTION DETAILS
NORTHWOOD DR

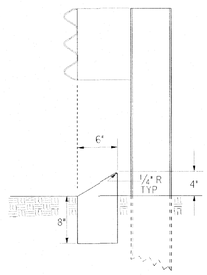
CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No. 35

12/12/2011 9:04:54 AM \\GDOT-DSN1\GDPLOT\QCF\GO_Klp8000.qcf tcox M:\TPC\9032B\Approved_9032B.pdf GO-K06
11/17/2011 8:14:31 AM \\GDOT-DSN1\GDPLOT\QCF\GO_Klp8000.qcf tcox M:\GARY\revised 9032B\9032B.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

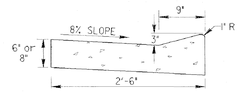
FACE OF CURB MUST ALIGN WITH BACK EDGE OF GUARDRAIL AND THE FACE OF THE OFFSET BLOCK.



TYPE 8

TYPE 8 CURB IS USED IN CONJUNCTION WITH GUARDRAIL CONNECTIONS TO CONCRETE BARRIER AS NOTED ON GA. STD. 4012C.

RAISED EDGE WITH CONCRETE GUTTER



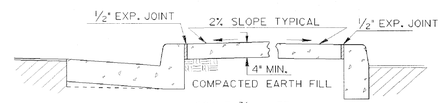
SCALE: 1" = 1FT.

RAISED EDGE TO BE CONSTRUCTED WITH SAME CONCRETE MIX AS THE GUTTER AND SHALL BE FORMED MONOLITHIC WITH GUTTER. JOINTS IN RAISED EDGE SHALL MATCH THOSE IN THE GUTTER.

NOTE:
IF CONCRETE MEDIAN INTERCEPTS PEDESTRIAN CROSSWALKS, WHEELCHAIR RAMPS (CONSTRUCTION DETAIL A-3 AND A-4) WILL BE REQUIRED.

CONCRETE MEDIAN (Between Curbs)

NOTE: CURB TYPES SHOWN ARE TYPICAL. OTHER TYPES MAY BE SPECIFIED.



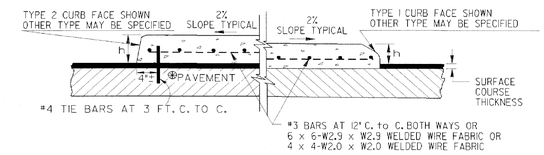
SCALE: 3/4" = 1FT.

NOTE: WIDTH OF CONCRETE MEDIAN WILL BE AS SHOWN IN PLANS

CONCRETE MEDIANS (Integral)

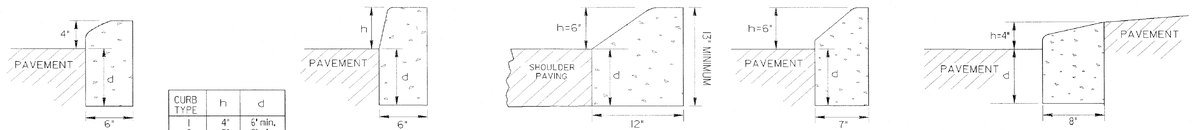
SCALE: 1" = 1FT.

-WITH TIE BARS- -WITHOUT TIE BARS-



NOTE:
IF FINAL SURFACE COURSE IN PRESENT OR MUST BE INSTALLED BEFORE THE CONCRETE MEDIAN CAN BE INSTALLED, THEN DOWELED IN CONCRETE MEDIAN IS REQUIRED.

CONCRETE HEADER CURBS



TYPE 1 TYPE 2, 3 OR 4 TYPE 6 TYPE 7 TYPE 9 TRUCK APRON IN ROUNDABOUTS

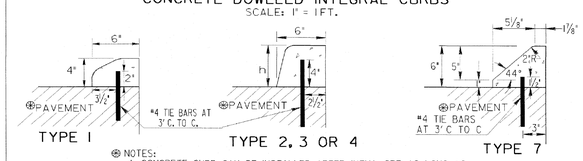
CURB TYPE	h	d
1	4"	6" min.
2	6"	8" min.
3	8"	10" min.
4	10"	12" min.
6	6"	7" min.
7	6"	8" min.
9	4"	8" min.

THE DIMENSION d MAY BE INCREASED AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB WILL ALIGN WITH BOTTOM OF PAVEMENT TYPICAL SECTION.

SCALE: 1 1/2" = 1FT.

CONCRETE DOWELED INTEGRAL CURBS

SCALE: 1" = 1FT.



TYPE 1 TYPE 2, 3 OR 4 TYPE 7

NOTES:
1. CONCRETE CURB CAN BE INSTALLED AFTER INTIAL SET AS LONG AS TIE BARS ARE DRILLED INTO UNDERLAYING CONCRETE PAVEMENT.
2. CONCRETE CURB CAN BE INSTALLED BEFORE INITIAL SET WITH DOWELS THAT ARE DRIVEN INTO UNDERLYING CONCRETE PAVMENT.
3. JOINTS IN CURB AND CONCRETE MEDIAN WILL MATCH THOSE IN THE CONCRETE PAVEMENT.
4. ALL TYPES OF CONCRETE CURB CAN BE PLACED ON ASPHALT PAVEMENTS WHERE TIE BARS MAY BE EITHER DRIVEN OR DRILLED INTO THE UNDERLYING PAVEMENT. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN CURB OR CONCRETE MEDAIN AT 20 FT. SPACING.

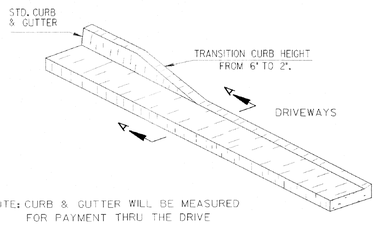
MINIMUM TIE BAR LENGTHS (FOR CONC. DOWELED CURBS OR CONC. MEDIAN)		
CURB TYPE	P.C. CONC. PAV.	ASPHALT PAV.
1	6"	8"
2, 3 or 4	8"	12"
7	6"	8"

NOTE:
TIE BARS FOR DOWELED CURBS MAY BE UNCOATED PLAIN OR DEFORMED BILLET-STEEL BARS (GRADE 40) AS USED FOR CONCRETE REINFORCEMENT. (AASHTO M-31)

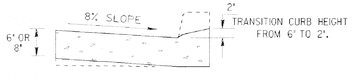
DETAILS OF RECESSED CURB FOR DRIVEWAYS

NO SCALE

PICTORIAL VIEW



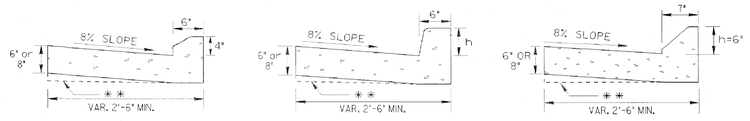
NOTE: CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE



SECTIONAL VIEW
SECTION A-A

(SEE SEPARATE CONSTRUCTION DETAILS FOR DRIVEWAYS)

CONCRETE CURB & GUTTER

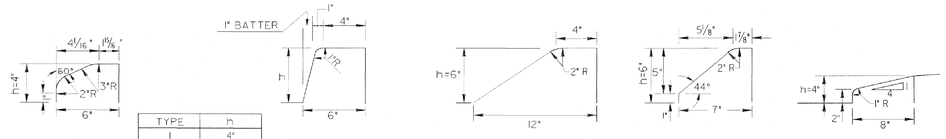


SCALE: 1" = 1FT.

TYPE 1 TYPE 2, 3 OR 4 TYPE 7

** AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE, BUT THE GUTTER THICKNESS MUST NOT BE LESS THAN THE SPECIFIED 6" OR 8" AT ANY POINT.

CURB FACE DESIGN

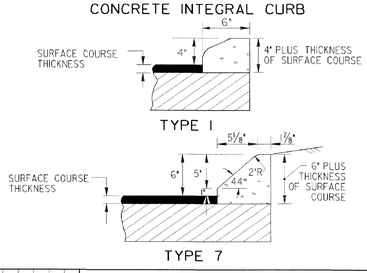


TYPE 1 TYPE 2, 3 OR 4 TYPE 6 TYPE 7 TYPE 9

TYPE	h
1	4"
2	6"
3	8"
4	10"
6	6"
7	6"
9	4"

SCALE: 2" = 1FT.

CONCRETE INTEGRAL CURB



TYPE 1

TYPE 7

SCALE: 1 1/2" = 1FT.

TC	REV. TYPE 9 CURB DETAIL & REV. OVERALL LAYOUT	11-15-11		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
GLO	REV. MEDIAN NOTE AND ADDED TYPE 9 CURB DETAIL	1-27-11			STANDARD CONCRETE CURB & GUTTER CONCRETE CURBS, CONCRETE MEDIANS
	ADDED TYPE 9 DETAIL	3-03		REVISION	SCALE: AS SHOWN REVISED AND REDRAWN OCT. 2011
				BY	DES. ___ DRW. ___ TRA. ___ CHK. ___ (SUBMITTED) STATE DESIGN POLICY ENGINEER (APPROVED) CHIEF ENGINEER — NUMBER 9032B

12/12/2011 9:04:54 AM \\GDOT-DSN1\GDPLOT\QCF\GO_Klp8000.qcf tcox M:\TPC\9032B\Approved_9032B.pdf

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

AEI
Branch Offices
65 Aberdeen Drive, Glasgow, KY 42141, (270) 651-7220
1634 White Circle, Suite 101, Marietta, GA 30066, (770) 421-8422
2500 Nelson Miller Parkway, Louisville, KY 40223, (502) 245-3813

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PROFESSIONAL ENGINEERING
DESIGN CONSULTANT

GEORGIA REGISTERED No. 028991 PROFESSIONAL ENGINEER THOMAS SCOTT FERRELL
5/15/2018

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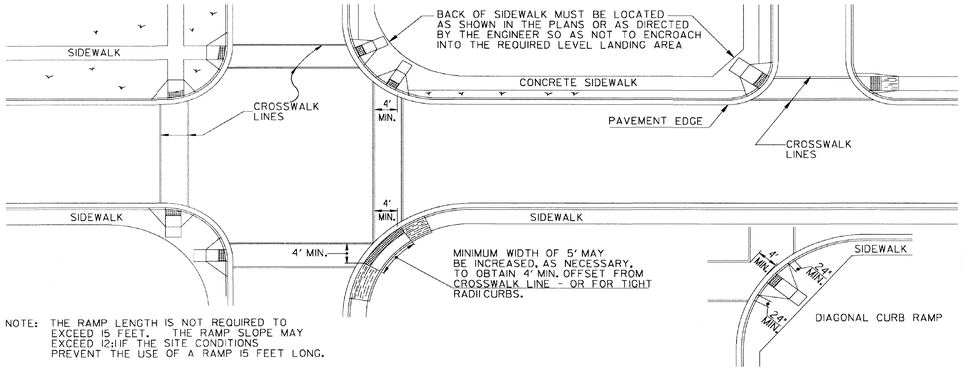
VERIFIED:		DATE:		

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

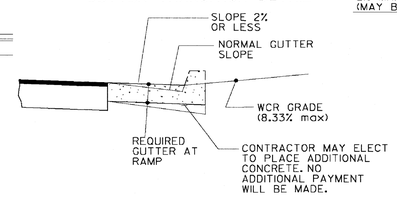
TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW



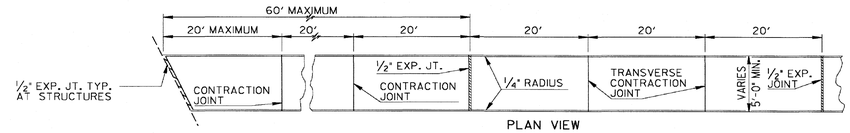
NOTE: THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12:1 IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

DIAGONAL CURB RAMP

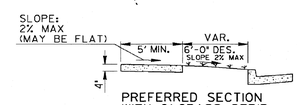
GUTTER TRANSITION DETAIL



CONCRETE SIDEWALK DETAILS

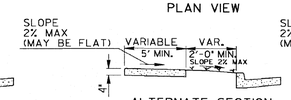


PLAN VIEW

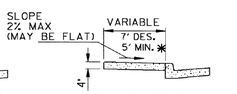


PREFERRED SECTION WITH 6' GRASS STRIP

*16' SHOULDER RECOMMENDED WITH THIS INSTALLATION



ALTERNATE SECTION WITH GRASS STRIP



ALTERNATE SECTION WITHOUT GRASS STRIP

*5' MIN WIDTH WITH NO OBSTRUCTIONS (MAILBOXS, SIGNS,ETC)

7' PREFERRED WIDTH WITH A 2' AREA OF CONTRASTING COLOR & TEXTURE ADJACENT TO THE CURB. (COST OF TEXTURE, COLORING & HOLES REQUIRED FOR MAILBOX AND SIGN POST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK)

NOTES FOR CONCRETE SIDEWALK:

A. CONCRETE TO BE PLACED 4" THICK AND FINISHED WITH TAMPS, WOOD FLOATS AND STIFF-BRISTLE BROOMS.
B. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL EDGES TO BE ROUNDED TO 1/4" RADIUS.
C. 1/2" EXPANSION JOINTS SHALL BE PLACED, WHERE SIDEWALK TIE INTO A STRUCTURE OR TERMINATE AT CURB, RAMPS OR DRIVEWAYS AND AT 60' INTERVALS.

NOTES FOR CURB CUT RAMPS:

1. CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE.
   a) AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
   b) WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT TURNOUTS OR AT INTERSECTIONS.
   c) AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC., WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED.
2. RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMPS WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH.
3. DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
4. WHERE RAMPS ARE LOCATED IN RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
5. WHERE UTILITY STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT SKEWED INTERSECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINS A MINIMUM OF 48 INCHES, AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 12:1.
6. LIN. FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT OF RAMPS. SQ. YDS. OF CONCRETE SIDEWALK AND CONCRETE MEDIAN PAVING WILL INCLUDE RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR CURB RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR SAWING AND REMOVING EXISTING SIDEWALK OR CURB WHERE NECESSARY FOR RAMP CONSTRUCTION.
7. WHEN A CURB RAMP IS PLACED ON EXISTING PAVEMENT. THE PAVEMENT SHALL BE REMOVED TO PROVIDE A MINIMUM THICKNESS OF 3 INCHES OF CONCRETE AT ALL LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL OF THE PAVEMENT.
8. DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH AN AADT OF 25 VPD.

This Detail Replaces Ga Standard 9031W

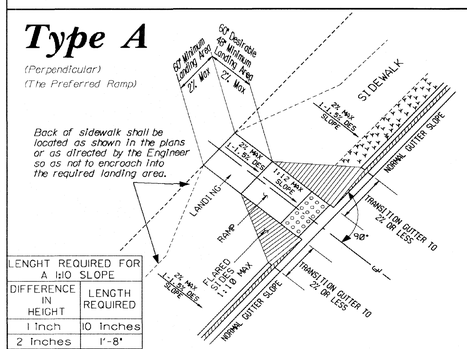
Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1'=25mm, 4"=100mm, and 12" or 1'=300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

Type A

(Perpendicular)

(The Preferred Ramp)

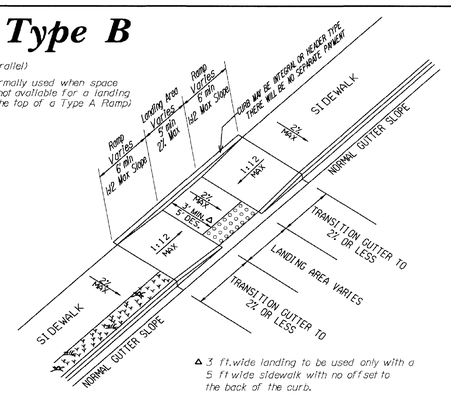


LENGHT REQUIRED FOR A 1:10 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 Inch	10 Inches
2 Inches	1'-8"
3 Inches	2'-6"
4 Inches	3'-4"
5 Inches	4'-2"
6 Inches	5 feet

Type B

(Parallel)

(Normally used when space is not available for a landing at the top of a Type A Ramp)



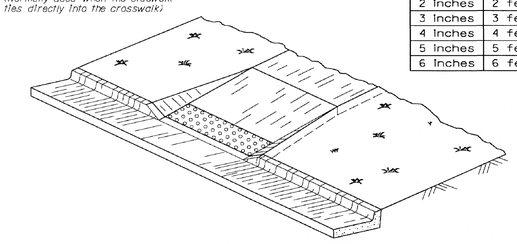
△ 3 ft. wide landing to be used only with a 5 ft wide sidewalk with no offset to the back of the curb.

LENGHT REQUIRED FOR A 1:12 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 Inch	1 foot
2 Inches	2 feet
3 Inches	3 feet
4 Inches	4 feet
5 Inches	5 feet
6 Inches	6 feet

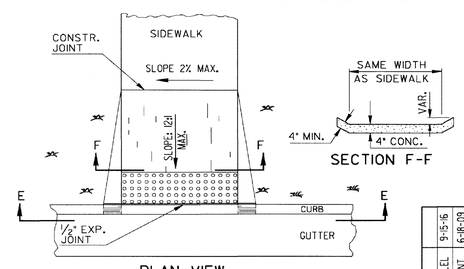
Type D

(Perpendicular)

(Normally used when the sidewalk ties directly into the crosswalk)

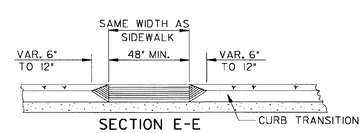


IN AREAS WHERE THE GUTTER HAS A SLOPE 1" IN 1' END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO A FLAT GUTTER SLOPE. NORMAL GUTTER SLOPE SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP.



SECTION F-F

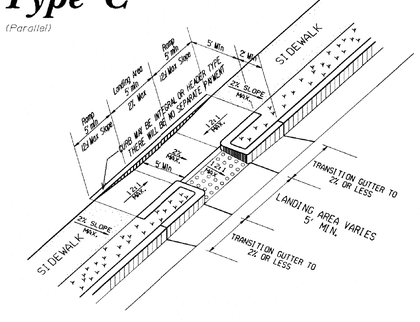
PLAN VIEW



SECTION E-E

Type C

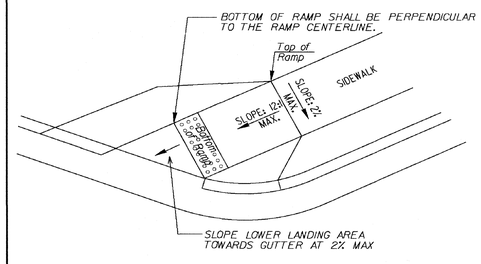
(Parallel)



Skewed Ramp Details

(Applies to Type A Type D Ramps Only)

WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB A LEVEL LANDING AREA WITH SLOPES LESS THAN 2% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.



C.JB	ADDED PERP. OR PARALLEL.	9-5-16	
GLO	REV. SLOPES TO PERCENT	6-18-09	
	AND ADDED 12:1 & 10:1 CHART.		
	ADDED GEN. NOTE NO. 8.		
GLO	REV. TRUNCATED DOMES	5-10-06	
	REVISED	2-21-03	
	REVISED	2-10-03	
	REVISED	7-29-02	
	REVISED	5-29-02	
	REVISED	5-23-02	
	REVISED	5-13-02	
	REVISED	4-29-02	
	REVISED	4-11-02	
	REVISED	4-3-02	
	REVISED	3-28-02	
	REVISION	DATE	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS

NO SCALE MARCH 12, 2002

NUMBER A3

10/23/2015 GPLN

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

AEI
Branch Offices:
65 Aberdeen Drive, Glasgow, KY 42141, (270) 651-7220
1634 White Circle, Suite 101, Marietta, GA 30066, (770) 421-8422
2500 Nelson Miller Parkway, Louisville, KY 40223, (502) 245-3813
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GEORGIA REGISTERED No. 028001 PROFESSIONAL ENGINEER THOMAS SCOTT FENNER
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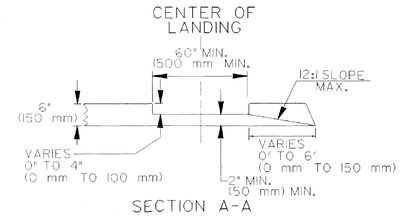
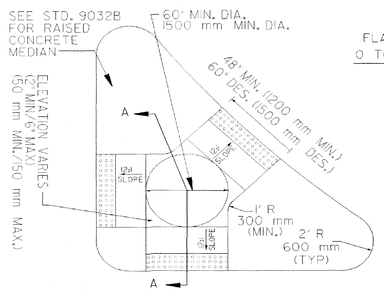
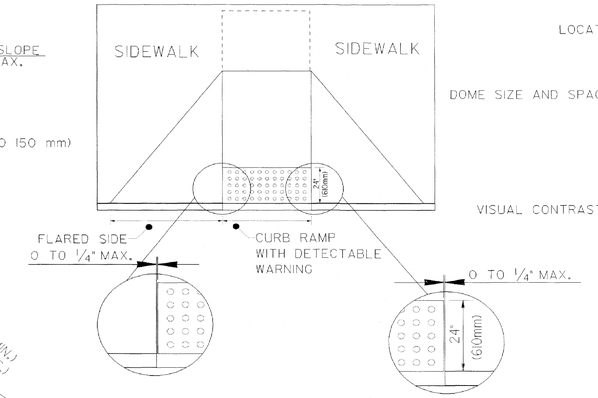


SECTION A-A



CONCRETE ISLAND WITH ELEVATED CUT THROUGH

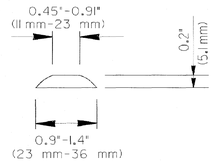


SIZE: DETECTABLE WARNINGS SHALL BE 24 INCHES (610 mm) IN THE DIRECTION OF PEDESTRAIN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

LOCATION: THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES (150 mm to 180mm) FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUSH AS A REFLECTIVE POOL EDGE OR THE DYNAMIC ENVELOPE OF RAIL OPERATIONS.

DOME SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23mm-36mm) AT THE BOTTOM, A DIAMETER OF 0.45 INCH TO 0.91INCH (11mm-23mm) AT THE TOP, THE TOP DIAMETER SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMENTER, A HEIGHT OF 0.2 INCH (5.1mm) AND A CENTER-TO-CENTER SPACING OF 2.40 INCHES (61mm) DESIRABLE 1.60 INCHES (41mm) MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

VISUAL CONTRAST: DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE VISUAL CONTRACT SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.



MATERIALS:

NEW CONSTRUCTION

THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON QPL 87.

RETROFIT OF EXISTING RAMPS

SURFACED APPLIED MATERIALS WILL ONLY BE APPROVED TO BE USED ON EXISTING WHEELCHAIR RAMPS.

INSTALLATION:

BRICK PAVERS SHALL BE SET IN A WET MORTAR BED. THE BED SHALL BE PLACED ON CONCRETE. THE CONCRETE SHALL BE A MINIMUM OF 4" THICK.

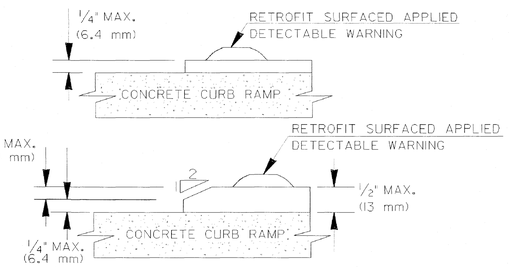
CERAMIC TILE SHALL BE EPOXIED IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

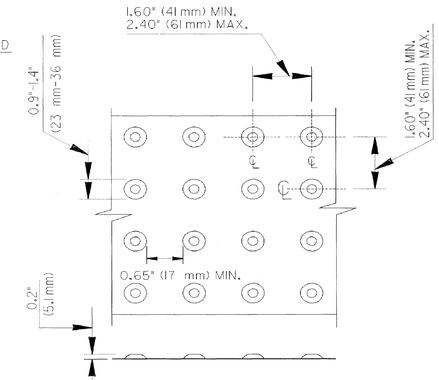
ALL OTHER MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURES DETAILS OR INSTRUCTION.

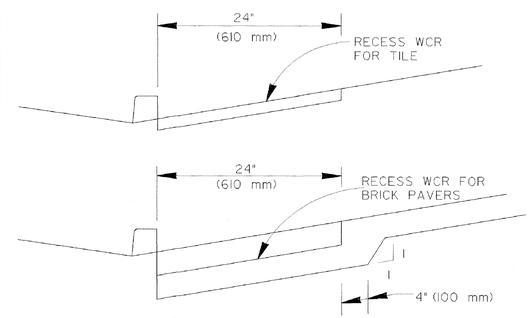
GENERAL NOTES:

RETROFIT SURFACED APPLIED MATERIALS ONLY:

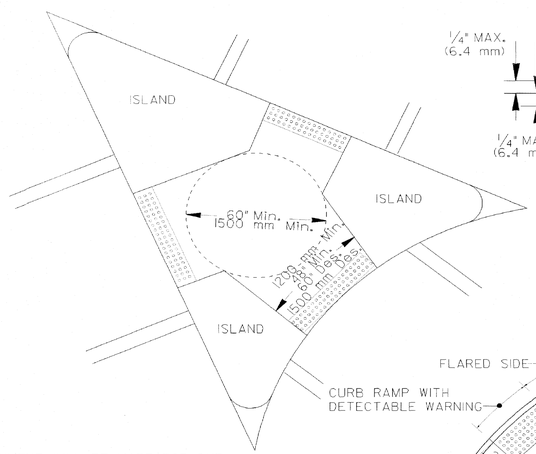
1. CHANGES IN LEVEL OF 1/4" (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED VERTICALLY ON SURFACED APPLIED MATERIALS.
2. CHANGES IN LEVEL BETWEEN 1/4" (6.4 mm) HIGH MINIMUM AND 1/2" (13mm) HIGH MAXIMUM SHALL BE BELEVELED WITH A SLOPE NOT STEEPER THAN 2:1.

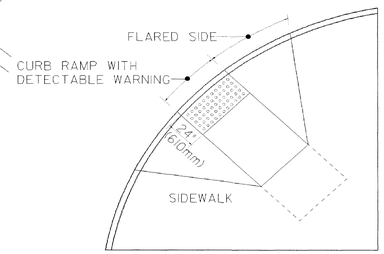






FOR TILE OR BRICK PAVERS NO VERTICAL LIP OVER 1/8" (3 mm) IS ALLOWED

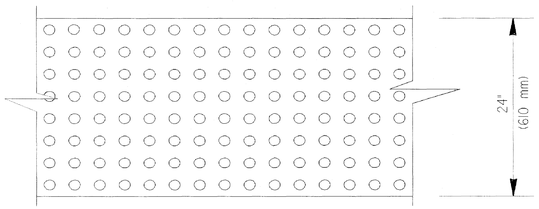




DETAIL FOR DETECTABLE WARNING AT CUT-THRU CONCRETE ISLAND

NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE WARNINGS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK (OR CURB CUT RAMP IF THE ITEM IS INCLUDED IN THE PROPOSAL).

FOR CUT-THRU ISLANDS AND EXISTING RAMPS, WHERE NO SIDEWALK OR CURB CUT RAMPS ARE IN THE PROPOSAL. THE COST OF THE DETECTABLE WARINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.



DATE	REVISION	BY
6-18-09	ADDED RETROFIT DETAIL AND ADDED ALT. RAMP DETAIL AND GEN. NOTES	GLO
10-2-06	ADDED TOLERANCE TO DTL.	GLO
5-10-06	REVISED TUNCATED DOMES AND NOTES.	GLO
11-14-02	REVISED	
7-29-02	REVISED	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL

DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS

NO SCALE — MARCH 12, 2002

NUMBER A4

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

AEI — Branch Offices
65 Aberdeen Drive, Glasgow, KY 42141, (270) 651-7220
1634 White Circle, Suite 101, Marietta, GA 30066, (770) 421-8422
2500 Nelson Miller Parkway, Louisville, KY 40223, (502) 245-3813

AMERICAN ENGINEERS, INC.
www.aei.cc
PROFESSIONAL ENGINEERING
DESIGN CONSULTANT

GEORGIA REGISTERED No. 022001 PROFESSIONAL ENGINEER — 5/15/2018

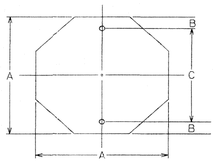
REVISION DATES

CONSTRUCTION DETAILS
NORTHWOOD DR

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

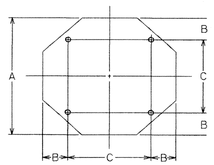
DRAWING No. 38

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

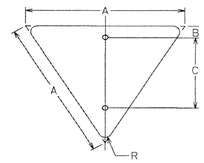


OCTAGON

A	B	C
24	3	18
30	3	24
36	3	30

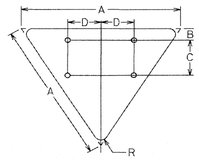


A	B	C
48	9	30

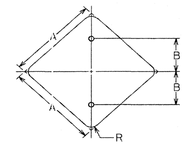


EQUILATERAL TRIANGLE

A	B	C	R
30	3	18	1 1/2
36	3	21	2
48	3	27	3

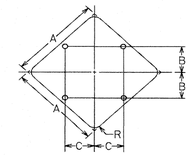


A	B	C	D	R
60	3	18	15	3



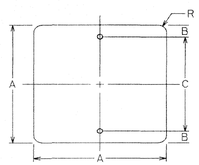
DIAMOND

A	B	R
24	12	1 1/2
30	15	1 7/8
36	18	2 1/4



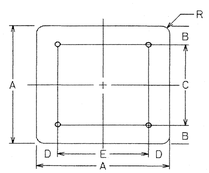
A	B	C	R
*36	10	10	2 1/4
48	15	15	3
60	18	18	3 3/4

* FOR TWO POST ERECTION

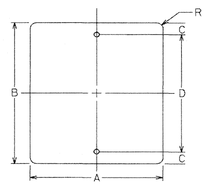


SQUARE

A	B	C	R
18	3	12	1 1/2
24	3	18	1 1/2
30	3	24	1 7/8

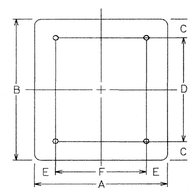


A	B	C	D	E	R
36	6	24	6	24	2 1/4
48	6	36	6	36	3

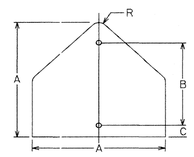


VERTICAL RECTANGLE

A	B	C	D	R
12	18	1 1/2	15	1 1/2
18	24	3	18	1 1/2
24	30	3	24	1 1/2
30	36	3	30	1 7/8

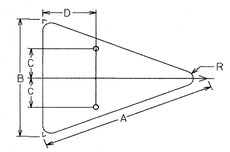


A	B	C	D	E	F	R
36	48	6	36	6	24	2 1/4
48	60	6	48	9	30	3



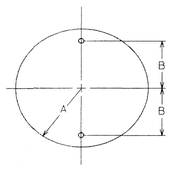
PENTAGON

A	B	C	R
30	21	3	1 7/8
36	24	3	2 1/4



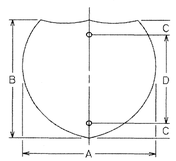
ISOSCELES TRIANGLE

A	B	C	D	R
40	30	7 1/2	12	1 7/8
48	36	9	15	2 1/4



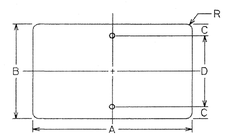
CIRCLE

A	B
15	12
18	15

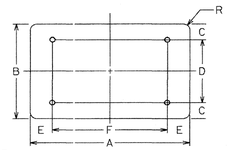


INTERSTATE SHIELD

A	B	C	D
24	24	3	18
30	24	3	18
36	36	6	24
45	36	6	24



A	B	C	D	R
21	15	1 1/2	12	1 1/2
24	12	1 1/2	9	1 1/2
24	18	3	12	1 1/2
30	15	1 1/2	12	1 1/2
30	24	3	18	1 1/2
36	12	1 1/2	9	1 1/2
36	24	3	18	1 1/2
48	12	1 1/2	9	1 1/2
48	24	3	18	1 7/8



HORIZONTAL RECTANGLE

A	B	C	D	E	F	R
48	36	6	24	9	30	2 1/4
60	24	3	18	12	36	1 1/2
60	36	6	24	12	36	2 1/4

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF SIGN PLATES

NO SCALE JANUARY 2000

PC207B

T-1

01 03 06 2006 12:26:08 PM

10/23/2015 GPLN

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

AEI

Branch Offices
65 Aberdeen Drive
Glasgow, KY 42141
(270) 651-7220

1634 White Circle, Suite 101
Marietta, GA 30066
(770) 421-8422

2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3833

AMERICAN ENGINEERS, INC.
www.aei.cc
PROFESSIONAL ENGINEERING
DESIGN CONSULTANT

GEORGIA REGISTERED No. 028001 PROFESSIONAL ENGINEER JAMES ROOT FRAZIER
5/15/2014
Jim Frazier

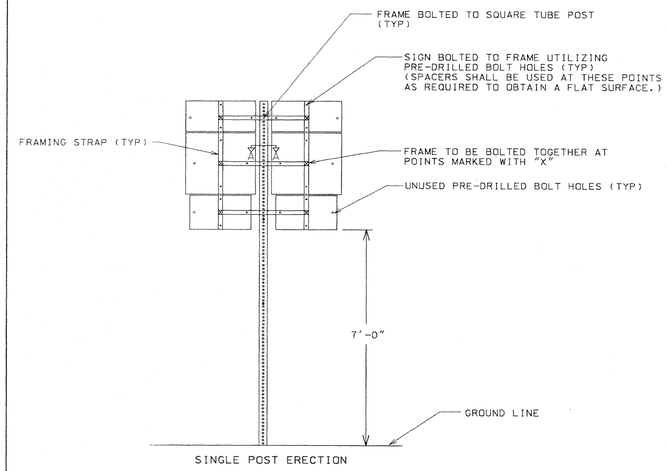
REVISION DATES		

CONSTRUCTION DETAILS
NORTHWOOD DR

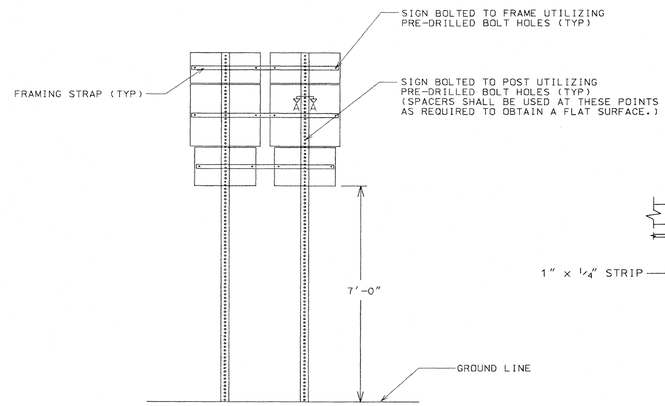
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
39

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

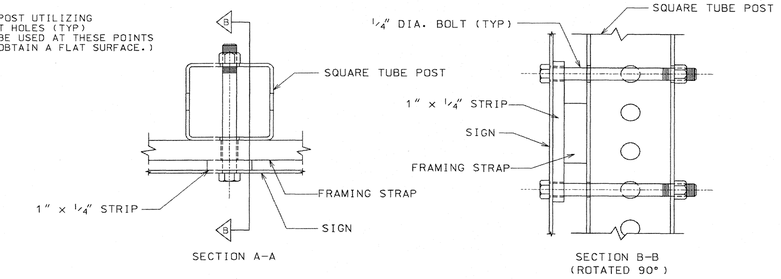


SINGLE POST ERECTION



DUAL POST ERECTION

TYPICAL ASSEMBLY UNIT (BACK VIEW)

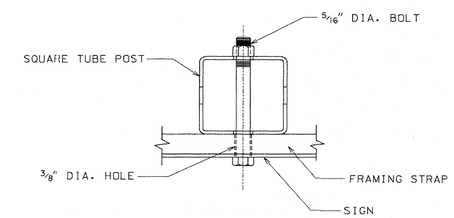


SECTION A-A

SECTION B-B (ROTATED 90°)

OPTION #1 - FRAMING STRAP WITHOUT MOUNTING HOLE

(ALL FRAMING STRAPS SHALL BE 1 1/2" x 1/2" x REQUIRED LENGTH)



OPTION #2 - FRAMING STRAP WITH MOUNTING HOLE

(ALL FRAMING STRAPS SHALL BE 2" x 1/2" x REQUIRED LENGTH)

GENERAL NOTES:

1. STYLE OF FRAMING IS OPTIONAL. ALTERNATE DESIGNS ARE ACCEPTABLE UPON APPROVAL OF THE ENGINEER. FRAME SHALL BE DESIGNED SO AS TO HOLD THE ASSEMBLY IN A FIXED, RIGID POSITION.
2. FRAMING STRAPS SHALL BE GALVANIZED STEEL OR ALUMINUM.
3. STEEL SHALL BE A.S.T.M. DESIGNATION A-283, GRADE D, GALVANIZED IN ACCORDANCE WITH A.S.T.M. DESIGNATION A-123.
4. ALUMINUM SHALL BE ALLOY 6061-T6.
5. BOLTS, NUTS, WASHERS, AND SPACERS SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
6. FRAMING STRAPS ON A DUAL POST ERECTION SHALL NOT BE BOLTED TO THE POST.

DATE	REVISIONS
3/31/00	CHANGED U-CHANNEL POST TO SQUARE TUBE POST

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC OPERATIONS

DETAILS FOR TYPICAL FRAMING

NO SCALE JANUARY 2000

PCBDTB

T-2

10/23/2015 GPLN

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
www.aei.cc
Branch Offices
○ 65 Aberdeen Drive, Glasgow, KY 42141, (270) 651-7220
● 1634 White Circle, Suite 101, Marietta, GA 30066, (770) 421-8422
○ 2500 Nelson Miller Parkway, Louisville, KY 40223, (502) 245-3813
PROFESSIONAL ENGINEERING
DESIGN CONSULTANT

GEORGIA REGISTERED No. 026001 PROFESSIONAL ENGINEER THOMAS SCOTT HOWELL
5/15/2018

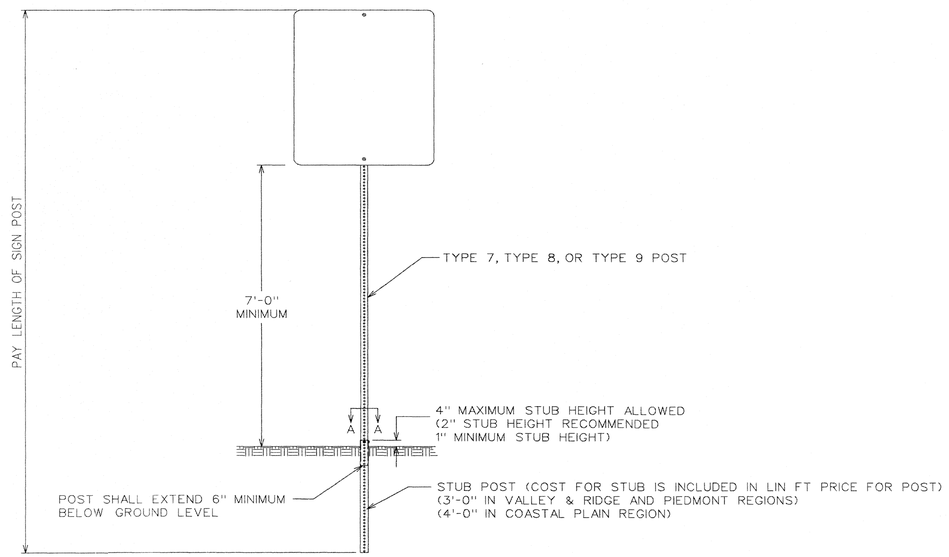
REVISION DATES

CONSTRUCTION DETAILS
NORTHWOOD DR

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

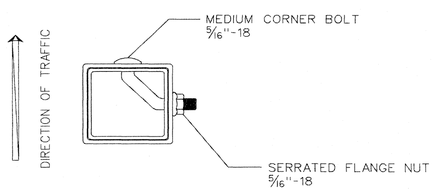
DRAWING No. 40

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



FRONT VIEW

POST	STUB SIZE
TYPE 7	2¼" x 2¼"
TYPE 8	2¾" x 2¾"
TYPE 9	2½" x 2½"



SECTION A-A

SIGN POST SELECTION CHART

70 MPH Wind Load Chart + 15% Gust Factor

	SLIP BASE NOT REQUIRED				GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED				
	TYPE 7 2" 14 ga.		TYPE 9 2-1/4" 14 ga	TYPE 8 2-1/2" 12 ga.	TYPE 8 2-1/2" 12 ga.		TYPE 8 w/TYPE 9 Insert* 2-1/2" 12 ga. W/2-1/4" 14 ga.		
Sign Centroid	1 Post	2 Post	1 Post	1 Post	2 Post	3 Post	1 Post	2 Post	3 Post
	SQUARE FOOTAGE				SQUARE FOOTAGE				
6'	13.50	27.00	19.25	30.00	60.00	90.00	49.25	98.50	147.75
7'	11.60	23.20	16.50	25.75	51.50	77.25	42.25	84.50	126.75
8'	10.15	20.30	14.45	22.55	45.10	67.65	37.00	74.00	111.00
9'	9.00	18.00	12.85	20.00	40.00	60.00	32.85	65.70	98.55
10'	8.10	16.20	11.55	18.00	36.00	54.00	29.55	59.10	88.65
11'	7.40	14.80	10.50	16.40	32.80	49.20	26.90	53.80	80.70
12'	6.80	13.60	9.65	15.00	30.00	45.00	24.65	49.30	73.95
13'	6.25	12.50	8.90	13.85	27.70	41.55	22.75	45.50	68.25
14'	5.80	11.60	8.25	12.90	25.80	38.70	21.15	42.30	63.45
15'	5.00	10.00	6.45	10.10	20.20	30.30	16.55	33.10	49.65
16'	4.70	9.40	6.05	9.45	18.90	28.35	15.50	31.00	46.50
17'	4.40	8.80	5.70	8.90	17.80	26.70	14.60	29.20	43.80
18'	4.15	8.30	5.40	8.40	16.80	25.20	13.80	27.60	41.40
19'	3.95	7.90	5.10	7.95	15.90	23.85	13.05	26.10	39.15
20'	3.75	7.50	4.85	7.55	15.10	22.65	12.40	24.80	37.20

SIGN CENTROID IS DISTANCE FROM GROUND LEVEL TO BOTTOM OF SIGN *PLUS* HALF THE HEIGHT OF SIGN.
EXAMPLE: 24" X 48" SIGN THAT IS 7 FEET FROM GROUND TO BOTTOM OF SIGN. ADD HALF OF 48" (24" OR 2 FT) *PLUS* 7 FT. = 9' CENTROID.

SIGN PLATE SHALL NOT EXCEED 48" IN WIDTH ON A SINGLE POST.

* TYPE 9 INSERT SHALL BE A CONTINOUS POST INSERTED INTO THE TYPE 8 POST WHERE REQUIRED. THE INSERT POST SHALL EXTEND FROM THE BOTTOM OF THE SLIP BASE UPPER ASSEMBLY TO 4" BELOW THE BOTTOM OF THE SIGN. THE INSERT POST SHALL NOT EXTEND ABOVE THE BOTTOM OF THE SIGN. PAYMENT FOR THE INSERT POST SHALL BE PER LINEAR FOOT OF TYPE 9 POST.

GROUND MOUNTED BREAKAWAY SIGN SUPPORT WILL BE MEASURED AND PAID FOR SEPARATELY. THE COST FOR THIS WORK SHALL INCLUDE THE UPPER AND LOWER ASSEMBLY, STUB POST, CLASS "A" CONCRETE, ALL HARDWARE NECESSARY TO COMPLETE THE INSTALLATION, AND BE INCLUDED IN THE BID PRICE SUBMITTED FOR ITEM 636-3010.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

TYPE 7, 8, AND 9
SQUARE TUBE POST
INSTALLATION DETAIL

NO SCALE JULY 2002

T-3A

PCBOTB

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

AEI

Branch Offices
65 Aberdeen Drive, Glasgow, KY 42141, (270) 651-7220
1634 White Circle, Suite 101, Marietta, GA 30066, (770) 421-8422
2500 Nelson Miller Parkway, Louisville, KY 40223, (502) 245-3813

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www.aei.cc
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DESIGN CONSULTANT

5/15/2018
Tom Travel

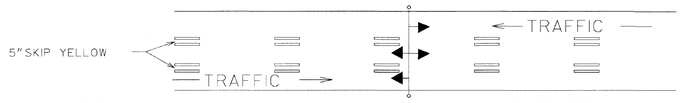
REVISION DATES		

CONSTRUCTION DETAILS
NORTHWOOD DR

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		41
CORRECTED:		DATE:		
VERIFIED:		DATE:		

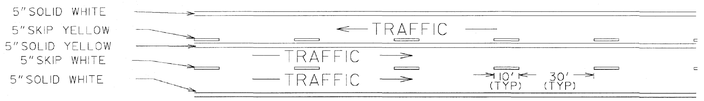
10/23/2015 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

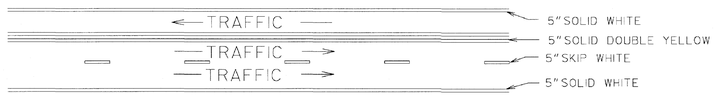


REVERSIBLE LANE SIGN OR SIGNAL SYSTEM REQUIRED

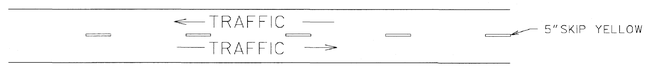
TWO-WAY TRAFFIC WITH A REVERSIBLE CENTER LANE



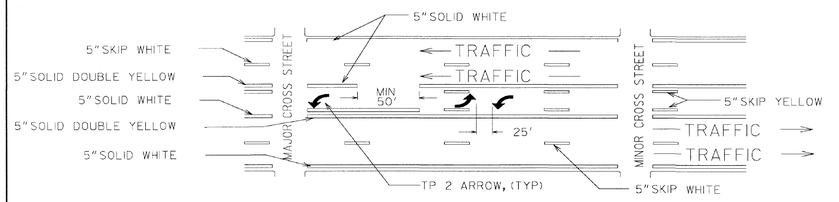
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE PERMITTED TO PASS



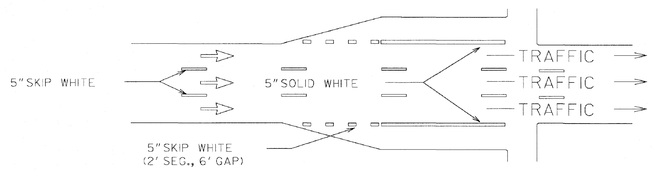
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE NOT PERMITTED TO PASS



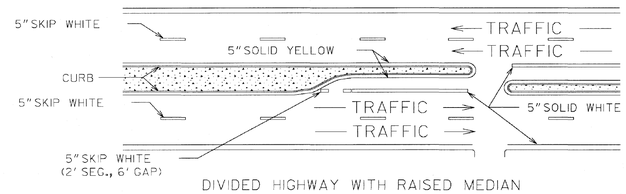
TWO-LANE, TWO-WAY TRAFFIC WITH PASSING PERMITTED



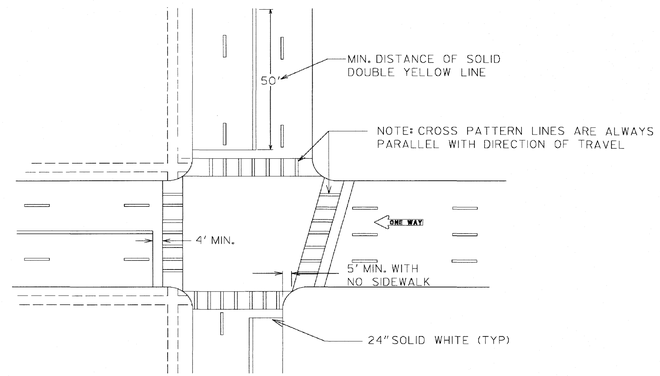
MULTI-LANE, TWO-WAY TRAFFIC WITH SINGLE LANE, TWO-WAY LEFT TURN CHANNELIZATION



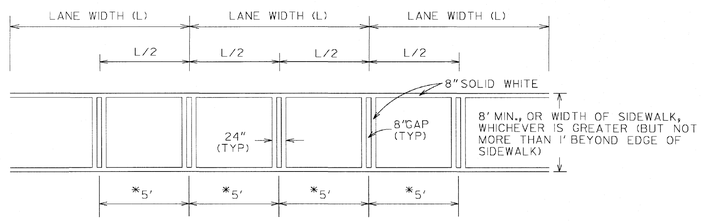
ONE-WAY TRAFFIC WITH ADDED TURN LANES



DIVIDED HIGHWAY WITH RAISED MEDIAN



TYPICAL LOCATION OF CROSSWALKS AND STOP BARS



*USE WHERE THE LANE WIDTH EXCEEDS 12' OR WHERE LANE LINES HAVE BEEN OMITTED

CROSSWALK DETAIL

GENERAL NOTES:

1. SPACING BETWEEEN DOUBLE LINES SHALL BE EQUAL TO THE LINE WIDTH.
2. EDGE LINES SHALL BE PLACED A MINIMUM OF 4 INCHES FROM THE NORMAL EDGE OF PAVEMENT.
3. CONTRAST MARKINGS FOR SKIP STRIPING SHALL BE AS SHOWN IN DETAIL T-11B.

9-15-16	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
ADDED GENERAL NOTE 3	REVISION	CONSTRUCTION DETAILS PAVEMENT MARKING PLACEMENT NON-LIMITED ACCESS ROADWAY
		NO SCALE — JANUARY 2000
	COR BY	DESIGNED ___ DRAWN ___ TRACED ___ CHECKED ___ — NUMBER T-11A

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

AEI

Branch Offices
○ 65 Abercrombie Drive, Glasgow, KY 42141, (270) 651-7220
● 1634 White Circle, Suite 101, Marietta, GA 30066, (770) 421-8422
○ 2500 Nelson Miller Parkway, Louisville, KY 40223, (502) 245-3813

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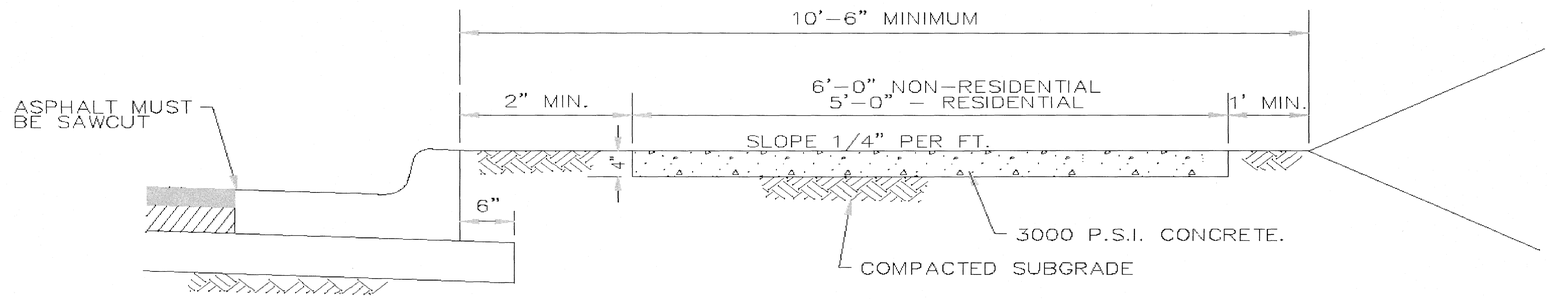
GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 028001 TRAVIS SCOTT TRAWICK
5/15/2018
Sam Trawick

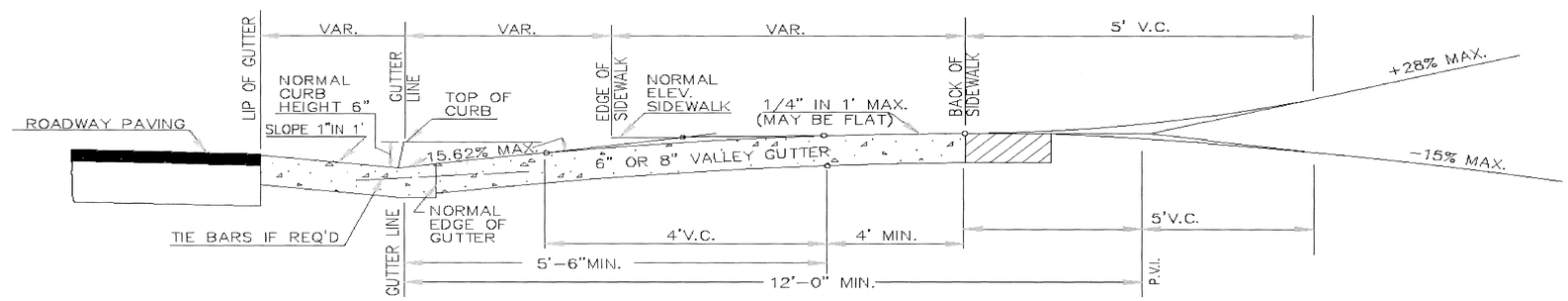
REVISION DATES		

CONSTRUCTION DETAILS
NORTHWOOD DR

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		42
CORRECTED:		DATE:		
VERIFIED:		DATE:		



TYPICAL SECTION OF SIDEWALK
N.T.S.



SECTION AT ℄ OF DRIVEWAY

NOTES:

1. USE ⅜" X 4" EXPANSION JOINTS AT CHANGE OF DIRECTIONS, CURBS, RIGID STRUCTURES AND RIGID PAVEMENT. ON STRAIGHT RUNS PROVIDE EXPANSION JOINTS EVERY 24 FEET.
2. TOOL ALL EXPOSED EDGES AND JOINTS TO ¼ " RADIUS.
3. BROOM FINISH PERPENDICUAR TO TRAVEL.
4. PROVIDE ¾" DEEP SAW CUT CONTRACTION JOINTS EVERY 5'-0".
5. ZONING OVERLAY REQUIREMENTS MAY SUPERCEDE STANDARD DETAIL.

FULTON COUNTY STANDARD DETAIL 308
STANDARD SIDEWALK SECTION

DATE	REVISIONS	DATE	REVISIONS
6-08	NRR		

DGS/DRN/CHKD: KAH
APPROVED: LJM
DATE: 4-19-05

FULTON COUNTY

FULTON COUNTY PUBLIC WORKS
141 PRYOR ST. ATLANTA, GA. 30303
404-612-7400 FAX: 404-730-6325

DRAWING NO. 308

PLANS PREPARED FOR:
SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:
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65 Aberdeen Drive, Glasgow, KY 42141 (270) 651-7220
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2500 Nelson Miller Parkway, Louisville, KY 40223 (502) 245-3813
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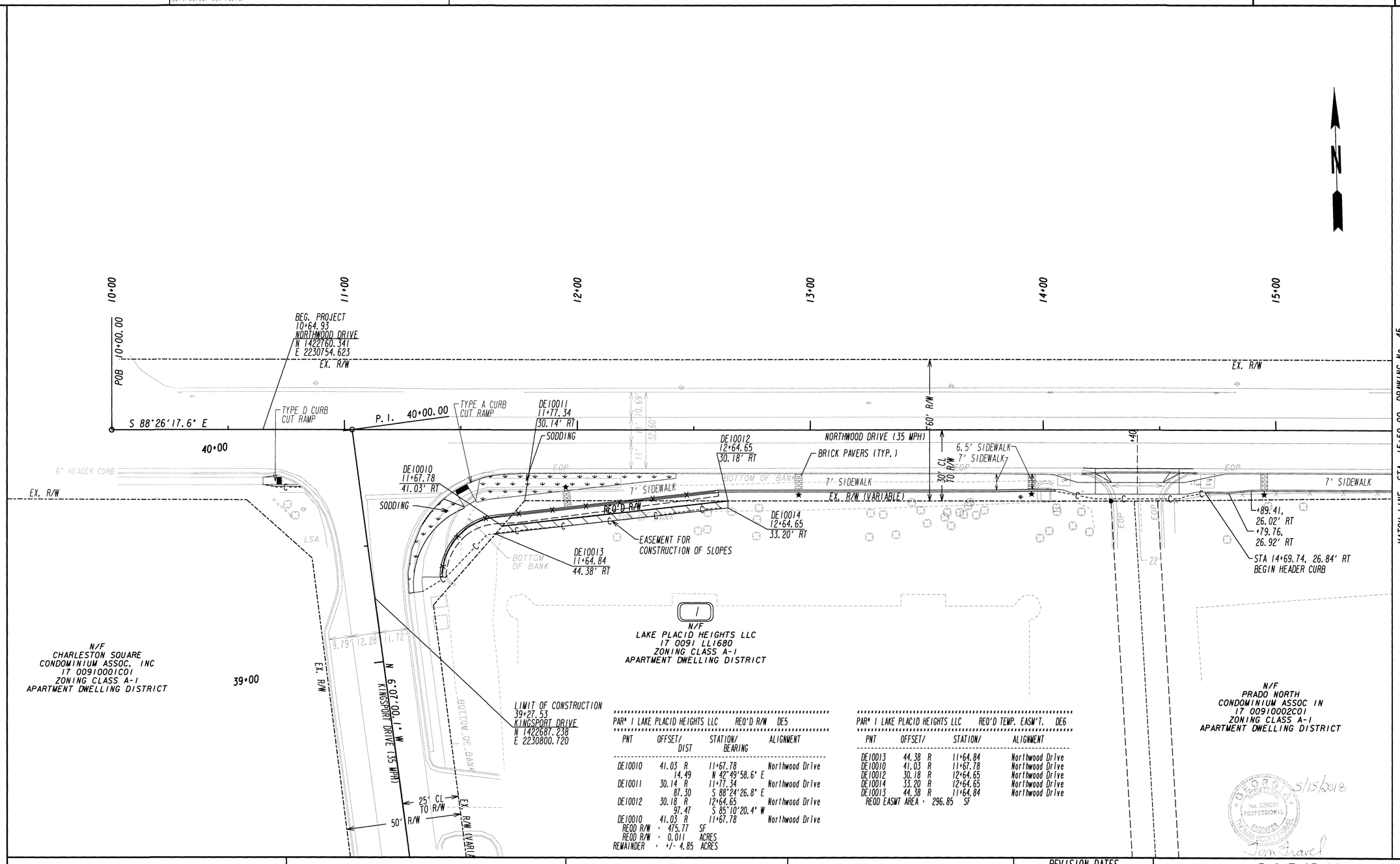
GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 029901 THOMAS SCOTT FRANCIS
5/15/2018

REVISION DATES

CONSTRUCTION DETAILS
NORTHWOOD DR

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 43



PAR# 1 LAKE PLACID HEIGHTS LLC REQ'D R/W DE5

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE10010	41.03 R	11+67.78	Northwood Drive
	14.49	N 42°49'58.6" E	
DE10011	30.14 R	11+77.34	Northwood Drive
	87.30	S 88°24'26.8" E	
DE10012	30.18 R	12+64.65	Northwood Drive
	97.47	S 85°10'20.4" W	
DE10010	41.03 R	11+67.78	Northwood Drive

REQD R/W = 475.77 SF
REQD R/W = 0.011 ACRES
REMAINDER = +/- 4.85 ACRES

PAR# 1 LAKE PLACID HEIGHTS LLC REQ'D TEMP. EASM'T. DE6

PNT	OFFSET/	STATION/	ALIGNMENT
DE10013	44.38 R	11+64.84	Northwood Drive
DE10010	41.03 R	11+67.78	Northwood Drive
DE10012	30.18 R	12+64.65	Northwood Drive
DE10014	33.20 R	12+64.65	Northwood Drive
DE10013	44.38 R	11+64.84	Northwood Drive

REQD EASMT AREA = 296.85 SF

GEORGIA REGISTERED NO. 026001 PROFESSIONAL ENGINEER JOHN SCOTT TRAVIS 5/15/2018

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
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DESIGN CONSULTANT
PROFESSIONAL ENGINEERING

Branch Offices
65 Aberdeen Drive, Glasgow, KY 42141, (270) 651-7220
2500 Nelson Miller Parkway, Louisville, KY 40223, (502) 245-3813
1634 White Circle, Suite 101, Marietta, GA 30066, (770) 421-8422

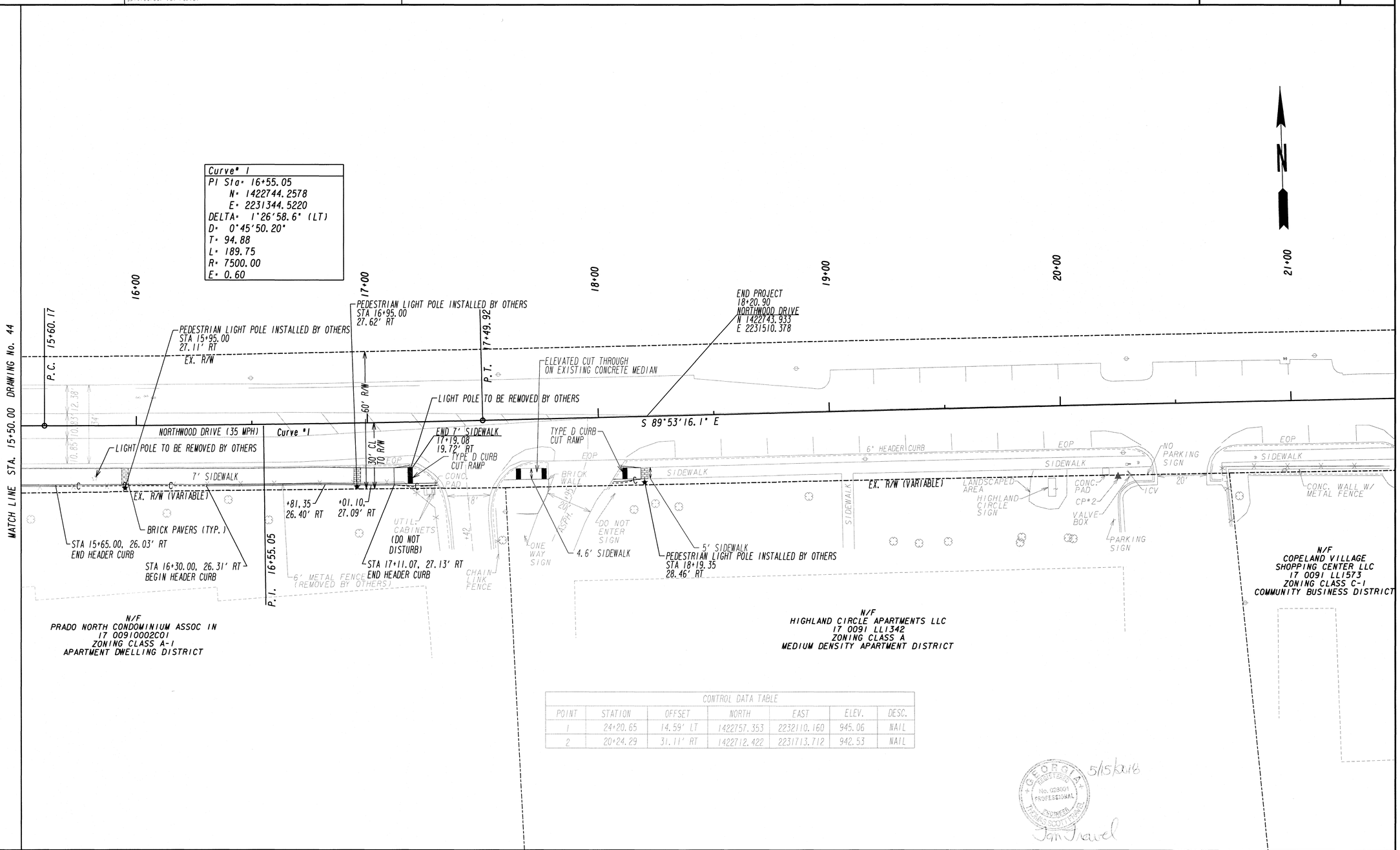
SCALE IN FEET
0 20 40 80

REVISION DATES

RIGHT OF WAY
NORTHWOOD DR

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		44
CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015 GPLN



CONTROL DATA TABLE

POINT	STATION	OFFSET	NORTH	EAST	ELEV.	DESC.
1	24+20.65	14.59' LT	1422757.353	2232110.160	945.06	NAIL
2	20+24.29	31.11' RT	1422712.422	2231713.712	942.53	NAIL

GEORGIA REGISTERED No. 028001 PROFESSIONAL ENGINEER THOMAS SCOTT HINES 5/15/2018

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

PLANS PREPARED FOR:
SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:
AEI
Branch Offices
65 Aberdeen Drive, Glasgow, KY 42141, (270) 651-7220
1634 White Circle, Suite 101, Marietta, GA 30066, (770) 421-8422
2500 Nelson Miller Parkway, Louisville, KY 40223, (502) 245-3813
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DESIGN CONSULTANT

SCALE IN FEET
0 20 40 80

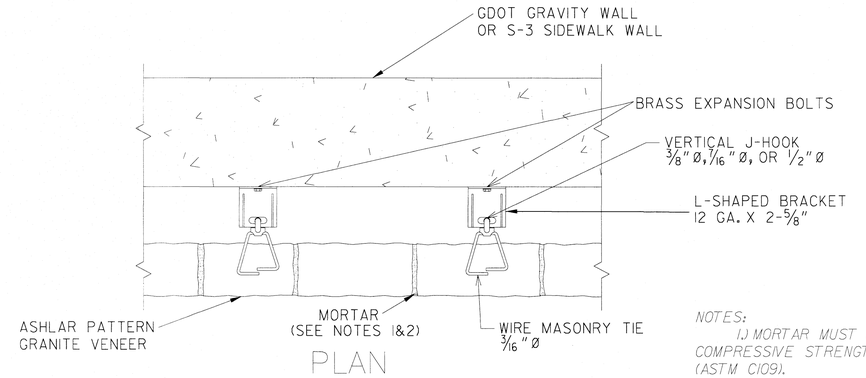
REVISION DATES

RIGHT OF WAY
NORTHWOOD DR

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 45

TIE–HVR–195VB Anchor System



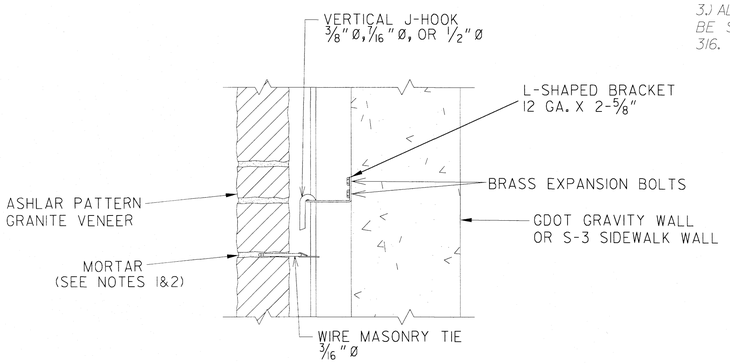
PLAN

NOTES:

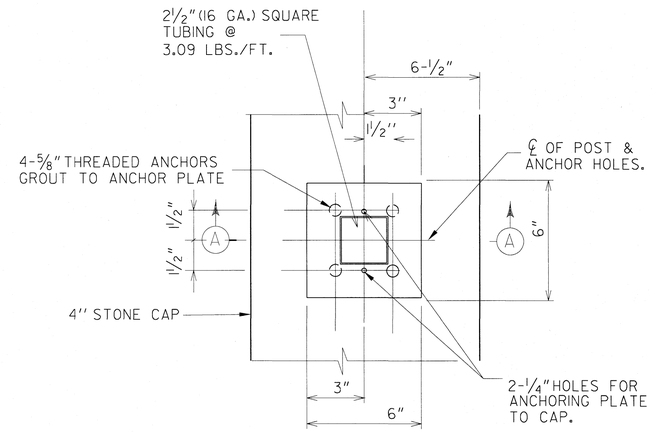
1.) MORTAR MUST HAVE 28 DAY COMPRESSIVE STRENGTH OF 1800 PSI (ASTM C109).

2.) MORTAR MUST MEET PROPERTY REQUIREMENTS OF ASTM C270.

3.) ALL BRACKETS, HOOKS, AND TIES SHALL BE STAINLESS STEEL: AISI TYPE 304 OR 316.



SECTION



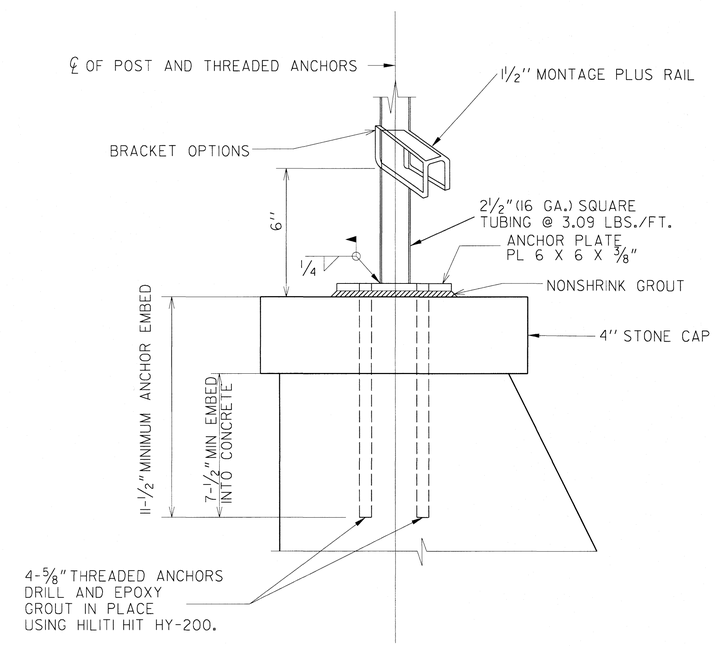
PLAN OF ANCHOR PLATE

NOTES:

1.) SWIVEL BRACKETS SHALL BE USED IN CURVED WALL SECTION.

2.) ANCHOR PLATES SHALL MATCH FENCE POST AND PANEL MATERIAL REQUIREMENTS AS SPECIFICED IN MONTAGE PLUS PRODUCT SPECIFICATIONS.

3.) ANCHOR PLATES SHALL BE COATED WITH AN EPOXY PRIMER AND ACRYLIC TOPCOAT AT LEAST 2 MILS CUMULATIVE COATING THICKNESS.



SECTION A-A

5/15/2018

PLANS PREPARED FOR:

SANDY SPRINGS
GEORGIA

PLANS PREPARED AND SUBMITTED BY:

AEI
Branch Offices
65 Aberdeen Drive, Glasgow, KY 42141, (270) 651-7220
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2500 Nelson Miller Parkway, Louisville, KY 40223, (502) 245-3813

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N. T. S.

REVISION DATES		

SPECIAL ANCHOR PLATE DETAIL
NORTHWOOD DR

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		46
CORRECTED:		DATE:		
VERIFIED:		DATE:		