TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
SNELLVILLE, GWINNETT COUNTY, GA

UTILITY/GOVERNMENTAL CONTACT LIST:

WATER COMPANY:
GWINNETT COUNTY WATER RESOURCES
ONE JUSTICE SQUARE
LAWRENCEVILLE, GA 30046
PHONE: 678-518-6153
CONTACT: CHARI YOUNG

SANITARY SEWER COMPANY:
GWINNETT COUNTY WATER RESOURCES
ONE JUSTICE SQUARE
LAWRENCEVILLE, GA 30046
PHONE: 678-518-6153
CONTACT: CHARI YOUNG

GAS COMPANY:
WALTON EMC
2842 HWY 78, MONROE, GA 30655
PHONE: 770-266-2370
CONTACT: KEVIN SMITH

FIRE DEPARTMENT
GWINNETT COUNTY FIRE DEPARTMENT
ONE JUSTICE SQUARE
LAWRENCEVILLE, GA 30046
PHONE: 678-518-6103
CONTACT: STEVE COLLINS

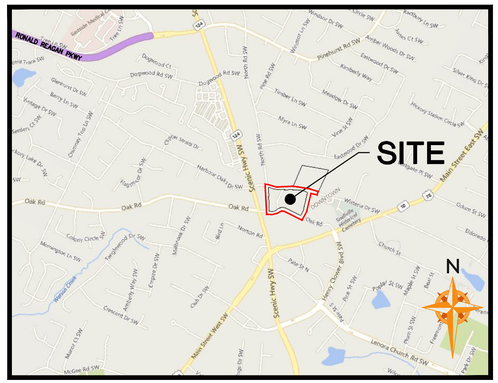
SURVEYOR
TERRA MARK LAND SURVEYING, INC.
1396 BELLS FERRY ROAD, MARIETTA, GA 30066
PHONE: 770-421-1927
CONTACT: WILLIAM WOHLFORD, PLS

POWER COMPANY:
WALTON EMC
2842 HWY 78, MONROE, GA 30655
PHONE: 770-266-2370
CONTACT: KEVIN SMITH

TELEPHONE COMPANY:
AT&T
3196 HIGHWAY 2805,
BIRMINGHAM, AL 35243
PHONE:
CONTACT: ERICA HUFFMAN

LOCAL ZONING OFFICE
SNELLVILLE PLANNING AND DEVELOPMENT DEPT.
2342 OAK ROAD, SNELLVILLE, GA 30078
PHONE: 770-985-3515
CONTACT: JASON THOMPSON, DIRECTOR

CITY REPRESENTATIVE
COLLABORATIVE INFRASTRUCTURE SERVICES, INC.
PHONE: 404-909-5619
CONTACT: LARRY KAISER, P.E., PRESIDENT
KAISER@CO-INFRA-SERVICES.COM


SITE
N
RONALD REAGAN PKWY
Dogwood Rd SW
Oak Rd
Main Street East SW
Main Street West SW
Lenora Church Rd SW
McGee Rd SW
Clower St SW
Church St SW
Pierce St SW
Wisteria Dr SW
Creek Side Ln SW
Cedar Creek Dr SW
Cedar Creek
Pinehurst Rd SW
Amber Woods Dr SW
Kimberly Way
Elmwood Dr SW
Hickory Hollow Circle SW
Meadow Dr SW
Myra Ln SW
Vine Ln SW
Dogwood Ct
Glenhurst Dr SW
Berry Ln SW
Heritage Ct SW
Chestnut Trace Dr SW
Oak Lake Dr SW
Melbourne Dr SW
Melbourne Ct SW
Cobblestone Dr SW
Cobblestone Ct SW
Cobblestone Circle SW
Tanglewood Dr SW
Tanglewood Circle SW
Jacquelyn Way SW
Cypress Dr SW
Cypress Ct SW
Magnolia Ln SW
Magnolia Ct SW
Mimosa Ln SW
Mimosa Ct SW
Mimosa Circle SW
Bell Ln
Bell Ct
Vernon Rd
Tyler St N
Tyler St S
Clark St SW
Jerry Dr SW
Jerry Ct SW
Jerry Circle SW
Church Ct
Church Circle
Church Dr
Church Ln
Pierce Ln SW
Pierce Ct SW
Pierce Circle SW
Main St SW
Main Ln SW
Main Ct SW
Main Circle SW
Bell Ln
Bell Ct
Bell Circle SW
Lenora Church Ln SW
Lenora Church Circle SW
Lenora Church Ct SW
Lenora Church Dr SW
Lenora Church Trail SW
Lenora Church Way SW
Lenora Church Pl SW
Lenora Church Terrace SW
Lenora Church Cir SW
Lenora Church Ln

Snellville Towncenter Roadway Improvements			
ITEM NO.	**DESCRIPTION**	**UNIT**	**QUANTITY**
	ROADWAY		
150-1000	TRAFFIC CONTROL -	LS	LUMP
201-1500	CLEARING & GRUBBING -	LS	LUMP
210-0100	GRADING COMPLETE -	LS	LUMP
310-1101	GR AGGR BASE CRS, INCL MATL	TN	531
318-3000	AGGR SURF CRS	TN	293
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	198
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	98
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	490
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2,INCL BITUM MATL & H LIME	TN	49
413-0750	TACK COAT	GL	54
432-0206	MILL ASPH CONC PVMT, 1 1/2 IN DEPTH	SY	45
439-0022	PLAIN PC CONC PVMT, CL 3 CONC, 10 INCH THK - STAMPED&COLORED	SY	220
439-0022	PLAIN PC CONC PVMT, CL 3 CONC, 10 INCH THK	SY	91
441-0018	DRIVEWAY CONCRETE, 8 IN TK	SY	398
441-0104	CONC SIDEWALK, 4 IN	SY	1990
441-0748	CONCRETE MEDIAN, 6 IN	SY	372
441-5008	CONCRETE HEADER CURB, 6 IN, TP 7	LF	170
441-5010	CONCRETE HEADER CURB, 6 IN, TP 9	LF	231
441-4030	CONC VALLEY GUTTER, 8 IN	SY	32
441-5002	CONCRETE HEADER CURB, 6 IN, TP 2	LF	188
441-6222	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	LF	2432
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	243
611-3030	RECONSTR STORM SEW MANHOLE, TYPE 1	EA	3
668-2100	DROP INLET, GP 1	EA	5
668-4300	STORM SEWER MANHOLE, TP 1	EA	1
900-0035	CONCRETE PAVER CROSSWALK - FLUSH	SF	860
900-0036	CONCRETE PAVER CROSSWALK - SPEED TABLE	LS	1
	LANDSCAPING AND HARDSCAPE		
700-7000	AGRICULTURAL LIME	TN	5
700-8000	FERTILIZER MIXED GRADE	TN	2
700-9300	SOD	SY	2449
716-2000	LANDSCAPE MULCH	SY	130
702-0839	PRUNUS SERRULATA - TREE	EA	3
702-0837	PRENUS SUBHIRTELLA - TREE	EA	23
900-0037	DECORATIVE PAVERS	SF	3251
754-5000	BENCH	EA	4
754-6000	BICYCLE RACK	EA	4
754-4000	WASTE RECEPTACLE UNIT	EA	4
754-5100	KNEE WALL (ROUND ABOUT)	LS	1
	TEMPORARY EROSION CONTROL		
163-0232	TEMPORARY GRASSING	AC	1
163-0240	MULCH	TN	19
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	18
165-0010	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	LF	150
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	EA	18
167-1000	WATER QUALITY MONITORING AND SAMPLING	EA	2
167-1500	WATER QUALITY INSPECTIONS	MO	12
171-0010	TEMPORARY SILT FENCE, TYPE A	LF	300
	SIGNING AND MARKING		
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	SF	295
636-2010	GALV STEEL POSTS, TP 1	LF	441
636-3010	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	EA	57
611-5551	RESET SIGN	EA	4
653-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	EA	8
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	612
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	5022
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	197
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	GLF	219
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	SY	318
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	130
647-1030	RRFB INSTALLATION	EA	2
	STREET LIGHTING		
681-4155	LIGHTING STD, 15 FT MH, 2 FT ARM	EA	21
681-6306	LUMINAIRE, TP2, 65W, LED	EA	21
681-4361	RESET LIGHT POLE	EA	4
610-6060	REMOVE AND DISPOSE OF HANDHOLES	EA	2
	5/8" X 10' COPPER CLAD STEEL GROUND ROD	EA	25
681-1406A	#6 AWG BARE COPPER WIRE	LF	250
	CADWELL CONNECTION	EA	25
	COMPRESSION CONNECTION #6AWG BCW TO REBAR	EA	25
682-9950	EXCAVATION AND BACK FILL TRENCH 1 FT WIDE X 3 FT DEEP	LF	1800
682-6222	CONDUIT, NONMETL, TP 2, 2 IN	LF	2000
682-1407	CABLE, TP XHHW, AWG NO 4	LF	6000
682-1408	CABLE, TP XHHW, AWG NO 2	LF	6000
	20 AMP, 120 VOLT, 1-POLE LIGHTING CONTACTOR	EA	2
	20 AMP, 120 VOLT PHOTOCELL	EA	1
	SIGNALS		
150-1000	TRAFFIC CONTROL -	LS	1
500-3800	CLASS A CONCRETE, INCL REINF STEEL	CY	2
639-3004	STEEL STRAIN POLE, TP IV	EA	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO -	LS	1
647-3000	INTERNALLY ILLUMINATED STREET SIGN	EA	4
647-3100	INTERNALLY ILLUMINATED STREET NAME SIGN CONTROL ASSEMBLY	EA	1
	WATERLINE		
670-4515	CONCRETE THRUST COLLAR,10 IN PIPE	EA	7
670-1120	WATER MAIN, 12 IN	LF	102
670-1080	WATER MAIN, 8 IN	LF	20
	CUT AND CONNECT WATER MAINS	LS	1

SUMMARY OF QUANTITIES

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. PE034502 PROFESSIONAL ENGINEER TODD L. SELDOMRIDGE 6/23/21
GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
LAND LOT 26 & 39, 5TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 098, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY DMN
CHECKED BY TLS
DATE: 06/23/2021
SCALE:
JOB No. 20-LD-054
SHEET NUMBER
CN

USER: 6701 - Oct 11, 2021 - 2:27pm
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CONSTRUCTION NOTES:

1. DIRT FOR FILL SHALL BE CLEAN, COHESIVE CLAY OR SANDY CLAY FREE OF DEBRIS, ORGANICS, DELETERIOUS MATERIAL AND ROCKS GREATER THAN 3" DIA.
2. MAX CUT OR FILL SLOPES SHALL BE 2:1 (H:V).
3. ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III UNLESS OTHERWISE NOTED.
4. ALL MANHOLE TOPS SHALL BE SET FLUSH WITH FINISHED GRADE IN LANDSCAPED AND PAVED AREAS.
5. CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL TIE–IN POINTS FOR INSTALLATION OF UTILITIES, CURB & GUTTER AND PAVING TO ENSURE PROPER DRAINAGE AND A SMOOTH SURFACE.
6. MANHOLES & DROP INLETS ARE DIMENSIONED TO THE CENTER OF THE RISER. CATCH BASINS ARE DIMENSIONED TO THE CENTER OF THE CATCH BASIN.
7. ALL EXISTING ELECTRICAL BOXES, WATER METER BOXES, AND VALVE BOXES, WHICH ARE TO REMAIN SHALL BE SET FLUSH WITH THE TOP OF THE PROPOSED FINISHED GRADE.
8. AREAS INTENDED TO SUPPORT PAVEMENT OR NEW FILL SHALL BE PROOF ROLLED WITH A 20 TO 30 TON LOADED TRUCK OR OTHER PNEUMATIC–TIRED VEHICLE OF SIMILAR SIZE AND WEIGHT IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER TO LOCATE WEAK, SOFT OR EXCESSIVELY WET MATERIALS. AREAS WHICH PUMP WHILE PROOF ROLLED SHALL BE UNDERCUT AND BACK–FILLED IN ACCORDANCE WITH SPECIFICATIONS.
9. CRUSHED STONE AGGREGATE IN ROADWAY/PARKING AREA PAVEMENT BASE SHALL CONFORM WITH SECTION 815 OF THE STATE OF GEORGIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS CURRENT EDITION. ALL ASPHALT MATERIAL AND PAVING OPERATIONS SHALL MEET APPLICABLE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION.
10. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COMPLETELY CLEAN ALL DRAINAGE STRUCTURES AND PIPES FROM SILT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE VARIOUS DRAINAGE ITEMS.
11. IF UTILITIES THAT ARE TO REMAIN AND HAVE BEEN LEFT ACTIVE, THE CONTRACTOR SHALL CAREFULLY PROTECT THEM AND IS RESPONSIBLE FOR RESTORING THEM TO THEIR PREVIOUS CONDITION IF DAMAGED.
12. THE CONTRACTOR SHALL MAINTAIN AND LEAVE THE SITE IN A CLEAN AND NEAT CONDITION. ALL MATERIAL SCHEDULED FOR DEMOLITION INCLUDING DEBRIS, VEGETATION, LUMBER, CONCRETE, ETC., SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.
13. EXISTING UTILITY COVERS INSIDE OF SIDEWALK ARE TO BE SALVAGED. REUSED UTILITY COVERS ARE TO BE FLUSH WITH PROPOSED SIDEWALK PAVING. COORDINATE ANY UTILITY RELOCATION WITH UTILITY OWNERS.
14. ALL FIRE HYDRANTS ARE TO BE RETAINED AND SHALL BE PLACED IN A MANNER TO PROVIDE NO LESS THAN 3'–0" OF SIDEWALK CLEARANCE.
15. ALL SALVAGED TRAFFIC SIGNS SHALL BE TURNOVER BY THE CONTRACTOR TO THE CITY OF SNELLVILLE WITHOUT ADDITIONAL COST TO THE CITY.
16. PROPOSED SIGNS SHALL BE PLACED 18" FROM BACK OF CURB.

MATERIAL TESTING

CONTRACTOR IS RESPONSIBLE FOR ENGAGING A MATERIALS TESTING FIRM TO PERFORM CONSTRUCTION TESTING DURING THE PROJECT CONSTRUCTION.

AS-BUILT DRAWINGS

CONTRACTOR IS RESPONSIBLE FOR PREPARING AS–BUILT DRAWING'S OF THE ROADWAY IMPROVEMENTS AND SUBMITTING THEM IN PDF AND CAD TO THE CITY OF SNELLVILLE AT THE END OF THE PROJECT. THE CITY WILL REVIEW THE AS–BUILTS AND PROVIDE COMMENTS TO THE CONTRACTOR TO ADDRESS PRIOR TO FINAL ACCEPTANCE.

PROJECT SUBMITTALS

CONTRACTOR SHALL SUBMIT CUT SHEETS AND/OR DETAILED DRAWINGS FOR THE FOLLOWING ITEMS:

–TRAFFIC SIGNAL STRAIN POLES
–PEDESTRIAL POLES
–TRAFFIC SIGNAL EQUIPMENT
–LED INTERNALLY ILLUMINATED SIGNS
–RAPID RESPONSE FLASHING BEACON SIGNAGE
–PAVER BRICKS
–HARDSCAPE ITEMS (TRASH CANS, BENCHES, RECEPTICLES, ETC)
–STREET LIGHTING FIXTURES AND POLES
–KNEE WALL AT POLICE STATION
–PAVEMENT MIX DESIGN
–CONCRETE MIX DESIGN

MAINTENANCE OF TRAFFIC

CONTRACTOR SHALL PROVIDE A MAINTENANCE OF TRAFFIC PLAN (MOT) FOR THE ENTIRE PROJECT AND A SPECIFIC PLAN FOR THE ROUND ABOUT CONSTRUCTION THAT INCLUDES CLOSURE OF CLOWER DURING THE ROUND ABOUT CONSTRUCTION TO THE CITY FOR APPROVAL PRIOR TO COMMENCEMENT OF CONSTRUCTION.

GENERAL NOTES:

1. ALL COMMUNICATIONS SHALL BE THROUGH THE CITY REPRESENTATIVE. HE WILL BE DESIGNATED UPON CONTRACT AWARD.
2. A NOTICE OF INTENT IS REQUIRED FOR THIS PROJECT. THE DISTURBED AREA IS **5.6 ACRES.**
3. SIGNING AND STRIPING SHALL BE PROVIDED BY THE CONTRACTOR ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION WITH ALL REVISIONS INCLUDED.
4. UPON DISCOVERING ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS, CONTRACTOR SHALL NOTIFY THE CITY REPRESENTATIVE.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMENSIONS SHOWN HEREIN PRIOR TO ANY CONSTRUCTION AND SHALL PROMPTLY NOTIFY THE CITY OF ANY DISCREPANCIES.
6. DIMENSIONS ARE TO EDGE OF PAVEMENT, FACE OF WALL AND CENTERLINE OF STRUCTURE AND CENTERLINE OF COLUMN LINE, AS APPLICABLE, UNLESS OTHERWISE NOTED. ANGLES SHOWN ON STORM AND SANITARY SEWER ARE TO CENTER OF PIPE, UNLESS OTHERWISE NOTED.
7. PROPOSED ELEVATIONS ALONG CURB LINE ARE TO THE BOTTOM OF CURB UNLESS OTHERWISE NOTED.
8. ALL CONSTRUCTION SHALL CONFIRM TO THE GEORGIA DEPT. OF TRANSPORTATION STANDARDS AND SUPPLEMENTAL SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL OBTAIN THESE DOCUMENTS, BECOME FAMILIAR WITH THEM AND HAVE THEM ON THE JOB SITE AT ALL TIMES.
9. PROPOSED BUILDING LOCATIONS SHOWN ARE PROVIDED FOR GENERAL INFORMATION ONLY BASED ON PLANS REFERENCED. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS SHOWN ON THE PLANS FOR ALL STRUCTURES AS WELL AS ALL UTILITY LOCATIONS WITH CURRENT ARCHITECTURAL, STRUCTURAL, AND PLUMBING PLANS AND ENSURING THERE ARE NO CONFLICTS.
10. CONTRACTOR'S VEHICLES SHALL ONLY USE THE LOCAL ROADWAYS IN THE DIRECTION OF EXISTING TRAVEL. NO WORK SHALL BE CONDUCTED PRIOR TO 6:00 AM AND AFTER 7:00 PM. SEE SPECIFICATIONS FOR ADDITIONAL RESTRICTIONS.
11. ALL WASTE FROM DEMOLITION OPERATIONS SHALL BE HAULED OFFSITE AND DISPOSED OF LEGALLY.
12. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN ENTERING MANHOLES, PIPES OR OTHER STRUCTURES SHOWN ON THE PLANS. AT A MINIMUM, THESE PIPES AND STRUCTURES SHALL BE PROPERLY VENTILATED.
13. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL DEVICES AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION AND MAINTAINED WHEN WORKING ON PUBLIC ROADS. ALL WORK FOR THIS SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL.
14. EQUIPMENT AND MATERIALS SHALL BE STORED IN AREAS DESIGNATED BY THE OWNER. CONSTRUCTION AND STORAGE AREAS SHALL BE KEPT NEAT AND CLEAN AT ALL TIMES.
15. DAMAGE TO ADJACENT ROADS, WALKS AND OTHER EXISTING FACILITIES CAUSED BY CONTRACTORS OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
16. CONTRACTOR IS CAUTIONED ABOUT THE PRESENCE OF UNDERGROUND UTILITIES AT OR NEAR THE PROPOSED IMPROVEMENTS THROUGHOUT THIS PROJECT. CALL BEFORE YOU DIG: 1–800–282–7411
17. THE CONTRACTOR SHALL PHASE THE WORK AND HIS CONSTRUCTION ACTIVITIES TO MINIMIZE DISRUPTION TO THE LOCAL BUSINESSES. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN SAFE, CLEARLY MARKED PEDESTRIAN ACCESS THROUGHOUT THE LIMIT OF WORK DURING THE CONSTRUCTION PERIOD. IF WORK IS BEING DONE IN FRONT OF BUSINESSES, CONTRACTOR MUST PROVIDE AND MAINTAIN A TEMPORARY ENTRANCE.
18. CONTRACTOR SHALL ENSURE THAT POWER IS MAINTAINED TO BUSINESS OWNERS DURING THE CONSTRUCTION PERIOD. CONTRACTOR WILL BE RESPONSIBLE FOR LOSS IN REVENUE CLAIMED BY INDIVIDUAL BUSINESS OWNERS IF ANY POWER LOSS OCCURS AS A RESULT CONTRACTOR NEGLIGENCE.
19. CONTRACTOR SHALL PROVIDE A PHOTO INVENTORY OF EXISTING SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. THREE COLOR COPIES SHALL BE PROVIDED – ONE FOR CITY OF SNELLVILLE PROJECT FILE, ONE FOR CONSULTANT AND ONE FOR BUSINESS OWNER.
20. ALL DRIVEWAYS SHALL BE MAINTAINED DURING CONSTRUCTION. ALL DRIVEWAYS TO BE CONSTRUCTED SHALL BE REPLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE ETC. ANY OTHER DRIVEWAY MATERIAL OR SPECIALIZED DRIVEWAY WILL NOT BE REPLACED IN KIND (I.E. PAVERS) AND WILL BE REPLACED WITH ASPHALT OR CONCRETE. ALL EARTH OR GRAVEL DRIVES SHALL BE PAVED WITH ASPHALT TO THE RIGHT–OF–WAY LIMIT OR TIE–IN POINT. DRIVEWAYS SHALL BE PAVED AS FOLLOWS:

ASPHALTIC DRIVES

- RESIDENTIAL:
  - 1–1/2" ASPH. CONC. 12.5 MM SUPERPAVE, 165 LB/SY
  - 6" GRADED AGGREGATE BASE
- COMMERCIAL:
  - 1–1/2" ASPH. CONC. 12.5 SUPERPAVE, 165 LB/SY
  - 2" ASPH. CONC. 19MM SUPERPAVE, 220 LB/SY
  - 6" GRADED AGGREGATE BASE

CONCRETE DRIVES

- RESIDENTIAL:
  - 6" CONCRETE VALLEY GUTTER
  - 4" CONCRETE DRIVEWAY
- COMMERCIAL:
  - 8" CONCRETE VALLEY GUTTER
  - 6" CONCRETE DRIVEWAY

21. IN THE EVENT OF A WATER/ SEWER EMERGENCY SUCH AS AN ACCIDENTAL BREAK OR LEAK OF GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES FACILITIES PLEASE CALL THE 24/7 EMERGENCY PHONE NUMBER 678–376–7000.

22. **CITY OF SNELLVILLE HAS A STOCKPILE OF #56 STONE AVAILABLE FOR THE CONTRACTOR TO USE IN LIEU OF AGGREGATE SURFACE COURSE AND GAB. THE OWNER WILL DETERMINE THE AMOUNT AVAILABLE FOR USE DURING THE PROJECT.**

CLEARING NOTES

1. UTILITY NOTE:
   UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH UTILITY COMPANIES TO HAVE THEM RELOCATED AND/OR ADAPTED FOR THE TIE–INS.
2. CONTRACTOR SHALL CLEARLY MARK AND MAINTAIN PROPERTY CORNER MONUMENTATION AND BENCHMARKS WHENEVER POSSIBLE AND WILL BE RESPONSIBLE FOR THE COST OF REPLACING THEM IF DISTURBED OR DESTROYED.
3. PRIOR TO DEMOLITION ACTIVITIES, THE CONTRACTOR SHALL OBTAIN WRITTEN VERIFICATION FROM ALL UTILITY COMPANIES THAT ALL UTILITIES HAVE BEEN REMOVED. IF UTILITIES HAVE NOT BEEN REMOVED BUT HAVE BEEN ABANDONED, THE VERIFICATION LETTER SHALL STATE THAT THEIR FACILITIES LEFT ON–SITE HAVE BEEN ISOLATED FROM THEIR SOURCE AND MAY BE REMOVED BY THE CONTRACTOR. IF UTILITIES ARE TO REMAIN AND HAVE BEEN LEFT ACTIVE, THE CONTRACTOR SHALL CAREFULLY PROTECT THEM AND IS RESPONSIBLE FOR RESTORING THEM TO THEIR PREVIOUS CONDITION OR BETTER IF DAMAGED.
4. DISCONNECT AND SEAL OFF ABANDONED UTILITIES AND UTILITIES TO BE REMOVED PRIOR TO START OF DEMOLITION. UTILITIES SHALL BE DISCONNECTED BELOW EXISTING GRADE OR OUTSIDE OF CONTRACT LIMITS BY THE APPLICABLE PUBLIC UTILITY. ALL COSTS FOR THIS WORK SHALL BE BORNE BY THE CONTRACTOR.
5. ALL STRUCTURES TO BE DEMOLISHED SHALL BE COMPLETELY REMOVED ABOVE AND BELOW GRADE. ABANDONED SERVICE LINES TO THE STRUCTURES SHALL ALSO BE REMOVED.
6. ALL NECESSARY PERMITS FOR DEMOLITION SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BEGINNING WORK.
7. CONTRACTOR SHALL PROTECT ALL ADJACENT LANDS FROM DAMAGE DURING DEMOLITION WORK. ANY OFF–SITE AREAS DISTURBED SHALL BE RETURNED TO THE PRE–CONSTRUCTION CONDITION.
8. ALL STRUCTURES NOT LABELED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION. ANY STRUCTURES THAT ARE TO REMAIN THAT ARE DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR TO THE EXISTING CONDITION AT NO ADDITIONAL COST.
9. **CONTRACTOR SHALL SALVAGE EXISTING DECORATIVE BRICK THAT IS REMOVED AND NOT REUSED WITHIN THE PROJECT AND DELIVER IT TO THE CITY IN A LOCATION DESIGNATED BY THE CITY. CONTRACTOR SHALL INCLUDE ALL COSTS FOR DEMOLITION ITEMS WITHIN GRADING COMPLETE PAY ITEM.**
10. **CONTRACTOR SHALL INCLUDE ALL COSTS FOR DEMOLITION ITEMS WITHIN GRADING COMPLETE PAY ITEM.**

GEORGIA D.O.T. NOTES

THE WORK AUTHORIZED MUST BEGIN WITHIN THREE MONTHS AND BE COMPLETED WITHIN TWELVE MONTHS ON A SCHEDULE SATISFACTORY TO THE DEPARTMENT FROM THE PERMIT APPROVAL DATE AND ALSO, BE COMPLETED BEFORE THIS FACILITY IS OPEN TO THE PUBLIC.

THE FOLLOWING WILL NOT BE ALLOWED ON DOT RIGHT–OF–WAY: (1) DIVERSION OF ADDITIONAL DRAINAGE AREA ONTO THE RIGHT–OF–WAY, OR INCREASE IN THE C?S OF CURRENT VOLUMES OF WATER (2) GRADING EXCEPT AT DRIVEWAY CONSTRUCTION LOCATION. (3) HEADWALLS, (4) SIGNS, DISPLAY DEVICES, AND OTHER STRUCTURES WHICH ARE DESIGNED, INTENDED, OR USED TO ADVERTISE OR INFORM. (5) LANDSCAPING WITHOUT PRIOR APPROVAL OF THE LANDSCAPE PLAN.

ALL EXISTING UTILITES WHICH WOULD BE UNDER NEW PAVEMENT OR IN ACCELERATION/DECELERATION LANES SHALL BE RELOCATED BEFORE FINAL GRADING OR PAVING AND AT NO COST TO THE DOT, OR AN APPROVED RETENTION LETTER FROM THE UTILITY OWNER.

CONSTRUCTION OF EROSION CONTROL BARRIERS PER GEORGIA DEPARTMENT OF NATURAL RESOURCES CODE 391–3–7 AND SHALL BE MAINTAINED UNTIL PERMANENT VEGATATION IS ESTABLISHED.

APPLICANT SHALL RESTORE ALL EXISTING SIGNS AND REGRASS TO DOT SPECIFICATIONS ALL RIGHT OF WAY THAT IS DISTURBED DURING WORK AUTORIZED HEREIN.

THE PERMIT APPLICANT IS RESPONSIBLE FOR REPLACEMENT OF ALL EXISTING PAVEMENT MARKINGS DAMAGED BY THE PERMIT CONSTRUCTION AND THE ADDITION OF NEW PAVEMENT MARKINGS AND OR SIGNS AS SHOWN ON THE APPROVED PLAN, OR CURRENT M.U.T.C.D. GUIDELINES.

ALL CURBED ISLANDS SHALL BE FILLED TO THE TOP OF CURB WITH TOP SOIL AND GRASSED. NOTE: THIS APPROVAL DOES NOT ALLOW ANY WORK ON STATE RIGHT–OF–WAY IN CONNECTION WITH UTILITY LINES (SANITARY SEWER, WATER, TELEPHONE, GAS, ETC.)

REQUIRED PAVEMENT SPECIFICATIONS
1 1/4"–––––– 9.5 mm SUPERPAVE
2"–––––––19 mm SUPERPAVE
8"–––––––25mm SUPERPAVE
12"––––––––GRADED AGGREGATE BASE COURSE

NOTICE

THIS PERMIT IS APPROVED SUBJECT TO THE REVISIONS AND COMMENTS SHOWN IN RED ON THE ATTACHED PLAN COPY AND SHALL REMAIN DEPENDENT UPON COMPLIANCE WITH THESE.

NO WORK WILL BE ACCOMPLISHED UNDER THIS PERMIT WITHIN THE CONSTRUCTION LIMITS OF ANY DOT PROJECT WITHOUT WRITTEN APPROVAL OF THE PRIME CONTRACTOR.

THE MAINTENANCE OF THE DRIVEWAY FROM THE NORMAL EDGE OF PAVEMENT IS THE RESPONSIBILITY OF THE PERMITEE.

OVERLAY SHALL BE AS DIRECTED BY GDOT PERMIT INSPECTOR.

ALL SIDEWALKS, CROSSWALKS AND RAMPS SHALL MEET ADA STANDARDS GDOT DETAILS.

THE APPLICANT IS RESPONSIBLE TO OBTAIN ALL NECESSARY ENVIRONMENTAL APPROVALS PRIOR TO ANY WORK ON STATE R/W.

ALL WORK PERFORMED WITHIN GDOT R/W SHALL CONFORM TO GDOT STANDARDS AND DETAILS.

NOTES:

ANY UTILITIES REQUIRING RELOCATION SHALL MEET GDOT CLEAR ZONE AT NO COST TO THE DEPARTMENT.

PROPOSED ENCROACHMENT WORK LIES WITHIN LIMITS OF APPROVED GDOT SIGNAL REVISION PERMIT S–135–001939–1. CONTRACTOR SHALL COORDINATE THIS PROPOSED ENCROACHMENT PERMIT WORK WITH GWINNETT COUNTY DOT TRAFFIC OPERATIONS.

UTILITY DISCLAIMER

UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH UTILITY COMPANIES TO HAVE THEM RELOCATED WHEN NECESSARY OR ADAPTED FOR TIE–INS.

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GENERAL NOTES

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. PE034502 PROFESSIONAL 6/23/21 ENGINEER TODD L. SELDOMRIDGE
GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, LOWER STREET
LAND LOT 26 & 38, 5TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 098, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY	DMN
CHECKED BY	TLS
DATE:	06/23/2021
SCALE:	
JOB No.	20-LD-054
SHEET NUMBER	GN

20–LD–054 MAIN.DWG

USER: 6707 – Oct. 07, 2021 – 8:56am
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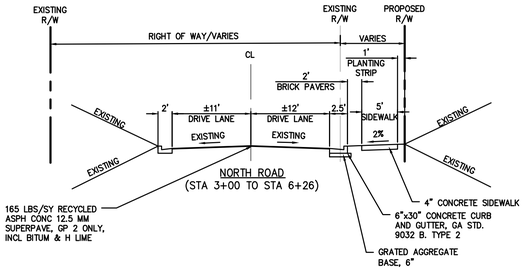
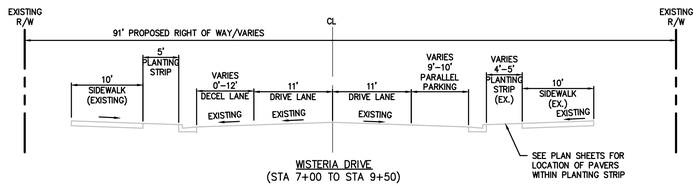
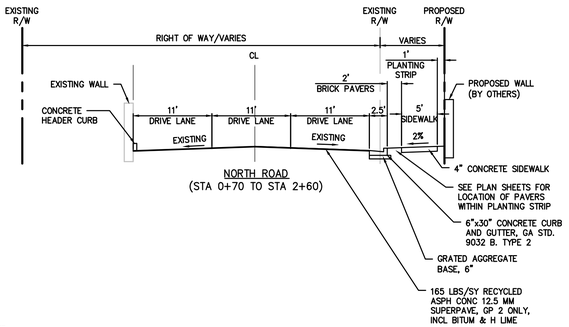
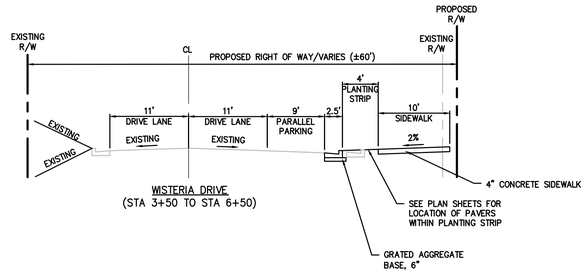
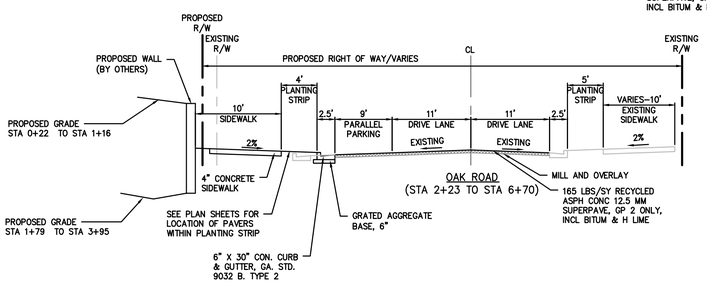
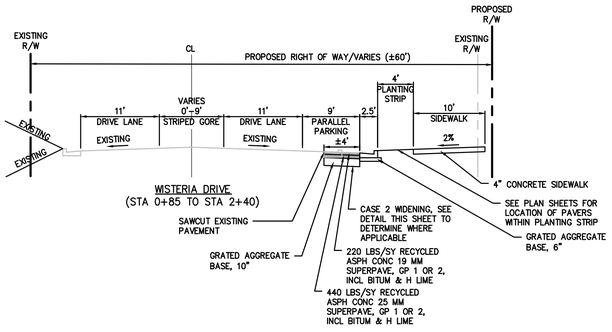


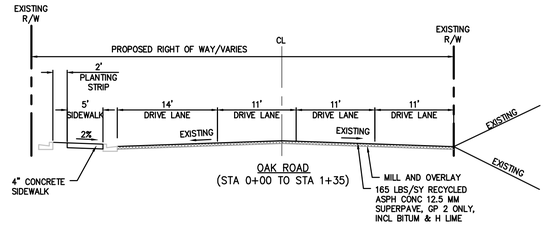














PAVEMENT WIDENING

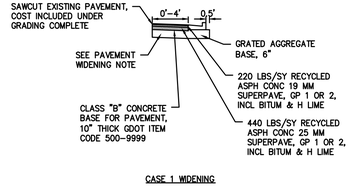
SAW CUT EXISTING ASPHALT PAVEMENT, WIDENING WIDTH VARIES. CASE 1: 0 < WIDTH < 4'; WIDTH >= 4'. SEAL JOINTS. CROSS SLOPES SHALL MATCH EXISTING PAVEMENT. FOR CASE 1, CONSTRUCT FULL-DEPTH PAVEMENT WITH 10" CLASS B CONCRETE BASE AND 1.5" ASPHALT SURFACE COURSE. FOR CASE 2, CONSTRUCT FULL-DEPTH PAVEMENT WITH STANDARD A,B,C,D PAVEMENT SECTION.

RESURFACING NOTE

* IN AREAS WHERE THE EXISTING ROADWAY SHALL BE RESURFACED, CROSS SLOPE SHALL MATCH EXISTING OR AS CLOSE FOR UNIFORM OVERLAY.

WIDENING NOTE

** IN AREAS WHERE NEW FULL DEPTH PAVEMENT SHALL BE CONSTRUCTED, CROSS SLOPE SHALL MATCH EXISTING.



CASE 1 WIDENING

TYPICAL SECTIONS

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GSWCC# 3039

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SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY: DMN
CHECKED BY: TLS
DATE: 06/23/2021
SCALE: 1"= 10'
JOB No. 20-LD-054
SHEET NUMBER
TS-1

20-LD-054 MAIN.DWG

USER 6701 - Jun 23, 2021 - 2:49pm
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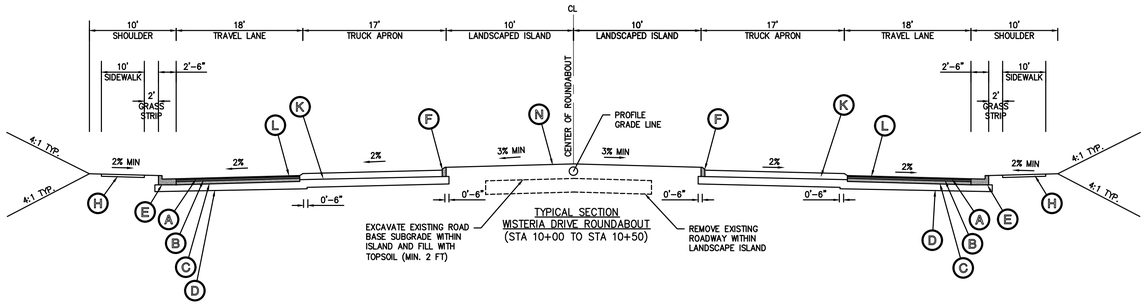
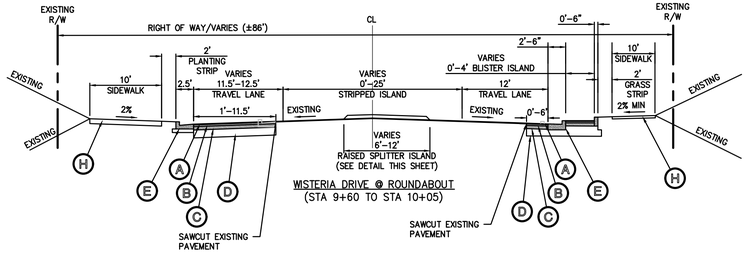
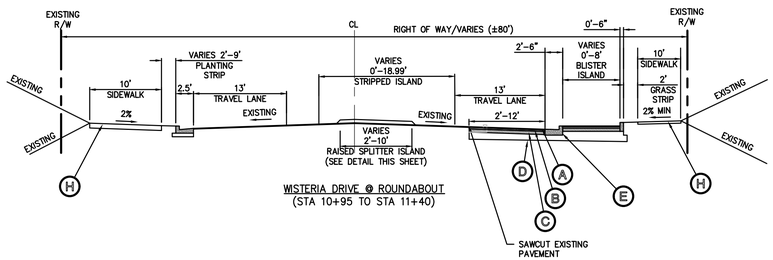


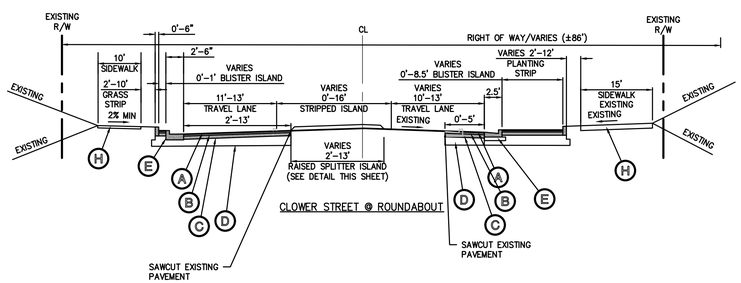
TYPICAL SECTION
WISTERIA DRIVE ROUNDABOUT
(STA 10+00 TO STA 10+50)



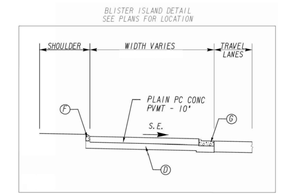
WISTERIA DRIVE @ ROUNDABOUT
(STA 9+60 TO STA 10+05)



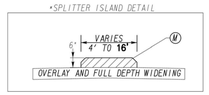
WISTERIA DRIVE @ ROUNDABOUT
(STA 10+95 TO STA 11+40)



CLOWER STREET @ ROUNDABOUT



- (A) 165 LBS/SY RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM & H LIME
- (B) 220 LBS/SY RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM & H LIME
- (C) 440 LBS/SY RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM & H LIME
- (D) GRADED AGGREGATE BASE, 10"
- (E) CONC CURB & GUTTER, 6" X 30", TP 2, GDOT STD. 9032B
- (F) SAWCUT EXISTING PAVEMENT, COST INCLUDING UNDER GRADING COMPLETE
- (G) CONC HEADER CURB, 6" , TP 7, GDOT STD, 9032B & GDOT DET. RA-2
- (H) CONC SIDEWALK, 4"
- (I) RECYCLED ASPH CONC LEVELING, AS REQ'D
- (J) VARIABLE DEPTH MILLING, AS REQ'D
- (K) PLAIN PC CONC PVMT, STAMPED & COLORED, COLOR SHALL BE TILE RED, FEDERAL STANDARDS 595B, COLOR=31310 – 10" WITH TP 9 CURB FACE
- (L) SEE SPECIAL GRADING PLAN FOR DETAILS OF PAVEMENT WARPING IN THE ROUNDABOUT
- (M) CONCRETE MEDIAN WITH TP 7 FACE, GDOT STD. 9032-B
- (N) ROUNDABOUT LANDSCAPING, GDOT DET. RA-1



TYPICAL SECTIONS

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GEORGIA REGISTERED No. PE034502 PROFESSIONAL 6/23/21 ENGINEER TODD L. SELDOMRIDGE
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SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY: DMN
CHECKED BY: TLS
DATE: 06/23/2021
SCALE: 1"= 10'
JOB No.: 20-LD-054
SHEET NUMBER
TS-2

20-LD-054 MAIN.DWG

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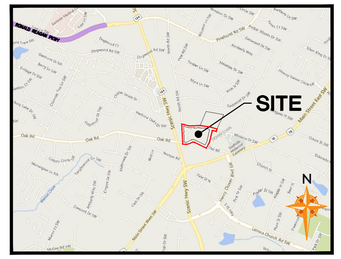
DEMOLITION LEGEND

- (A) EXISTING CURB TO BE REMOVED.
- (B) EXISTING ROADWAY PAVEMENT TO BE REMOVED.
- (C) EXISTING CONCRETE PAVEMENT TO BE REMOVED.
- (D) EXISTING WATER MAIN, LATERAL, VALVES, THRUST BLOCKS, ETC. TO BE REMOVED.
- (E) EXISTING LIGHT POLE TO BE RELOCATED
- (F) EXISTING SIGN TO BE REMOVED. (RETURN TO CITY IN LOCATION DETERMINED BY CITY)
- (G) EXISTING BRICK CROSSWALK TO BE REMOVED. REFER TO CLEARING NOTE #9 FOR ADDITIONAL INFORMATION.
- (H) EXISTING TREE TO BE REMOVED.
- (I) EXISTING POLICE STATION WALL TO BE REMOVED. SIGN, FLAG POLE, AND BIKE RACK TO BE RELOCATED AS DIRECTED BY CITY.
- (J) EXISTING FURNITURE (BENCHES, TRASH CANS) TO BE RELOCATED/REMOVED.



LOCATION MAP
NOT TO SCALE

WISTERIA DRIVE
(APPARENT VARIABLE R/W)

NORTH ROAD
(APPARENT VARIABLE R/W)

OAK ROAD
(APPARENT VARIABLE R/W)

CLOWER STREET
(APPARENT VARIABLE R/W)

REMOVE AND RECONSTRUCT CATCH BASIN TOP

REMOVE AND RECONSTRUCT CATCH BASIN TOP

DEMO IN THIS AREA BY LIBRARY CONTRACTOR. REFER TO PLANS BY TSW/CPL FOR DETAILS.

RELOCATE THIS STOP AND STREET NAME SIGN

RELOCATE EXISTING PEDESTRIAN POLE

RELOCATE THIS STOP LIGHT AHEAD SIGN

LIMITS OF NEWER ASPHALT FROM PREVIOUS STREETSCAPE PROJECT.

APPROX. R/W

N/F DOWNTOWN DEVELOPMENT AUTHORITY OF SNELLVILLE DB. 50764 PG. 138 PARCEL ID # 5039 009C ZONED: BG

N/F TIMOTHY L. STEWART DB. 51173 PG. 315 PARCEL ID # 5039 224 ZONED: BG

N/F KIKASHA PROPERTIES 8, LLC DB. 51769 PG. 72 PARCEL ID # 5026 209 ZONED: BG

DEMOLITION PLAN LEGEND

X X X X X X DENOTES SPECIFIC DEMOLITION ITEMS

DENOTES PAVEMENT DEMOLITION

DEMOLITION PLAN

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

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SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

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CHECKED BY	TLS
DATE:	06/23/2021
SCALE:	1"= 50'
JOB No.	20-LD-054

SHEET NUMBER

DE-1

20-LD-054 MAIN.DWG

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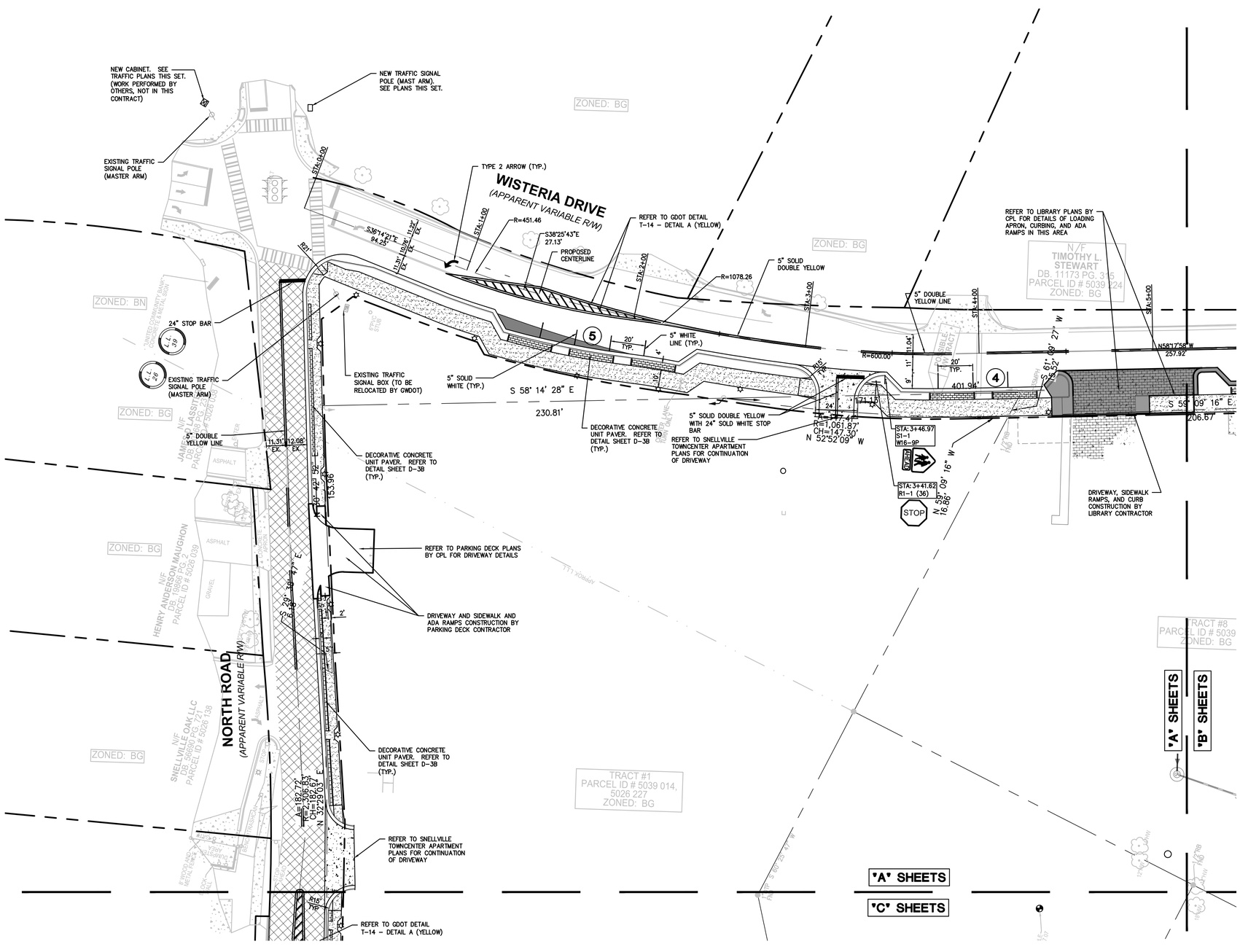

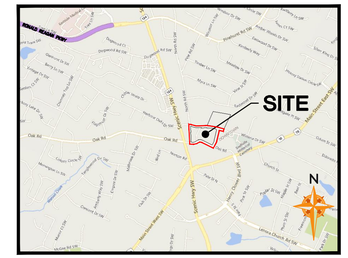

LOCATION MAP
NOT TO SCALE

LEGEND FOR PROPOSED IMPROVEMENTS

- PROPOSED CURB AND GUTTER
- PAINTED TRAFFIC DIRECTION ARROW
- (5) PROPOSED PARKING SPACES
- FULL DEPTH REPLACEMENT
- CONCRETE SIDEWALK
- MILL AND OVERLAY

STRIPING PLAN

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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REVISIONS	BY

DRAWN BY	DMN
CHECKED BY	TLS
DATE	06/23/2021
SCALE	1"= 30'
JOB No.	20-LD-054
SHEET NUMBER	C-1A

20-LD-054 MAIN.DWG

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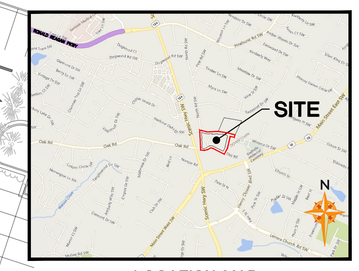
STRIPING PLAN

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.



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- FULL DEPTH REPLACEMENT
- CONCRETE SIDEWALK
- MILL AND OVERLAY

WISTERIA DRIVE
(APPARENT VARIABLE R/W)
APPROX. R/W

CLOWER STREET
(APPARENT VARIABLE R/W)

CITY TRAIL - REFER TO PLANS BY CPL FOR ADDITIONAL DETAILS

REFER TO CITY TRAIL PLANS BY CPL FOR CONTINUATION OF PATHWAY. EXTEND PROPOSED 10' PATHWAY TO MATCH RECENTLY INSTALLED CITY TRAIL.

PROPOSED CENTERLINE

STA:6+53.94
INSTALL 14' PEDESTRAL POLE WITH SOLAR SYSTEM, NETWORK CONTROLLER, AND PEDESTRIAN PUSH BUTTON STATION W/ POLE MOUNT
S1-1
R10-25
W16-7P
RECTANGULAR RAPID FLASHING BEACON

STA:6+36.63
INSTALL 14' PEDESTRAL POLE WITH SOLAR SYSTEM, NETWORK CONTROLLER, AND PEDESTRIAN PUSH BUTTON STATION W/ POLE MOUNT
S1-1
R10-25
W16-7P
RECTANGULAR RAPID FLASHING BEACON

RAISED PEDESTRIAN PAVER CROSSWALK. REFER TO DETAIL ON SHEET D-1E.

DECORATIVE CONCRETE UNIT PAVER. REFER TO DETAIL SHEET D-3B (TYP.)

REFER TO SNELLVILLE TOWNCENTER PHASE 1 PLANS FOR CONTINUATION OF DRIVEWAY

5" DOUBLE YELLOW LINE

5" SOLID DOUBLE YELLOW WITH 24" SOLD WHITE STOP BAR

5" SOLID DOUBLE YELLOW THERMOPLASTIC (TYP.)

24" SOLID WHITE

STA:9+51.12
S1-1
W16-9P

STA:10+44.37
R6-1
36"x12"
R6-4
30"x24"

STA:8+42.21
R1-1 (36)

STA:8+56.95
D3-1
VARIESx12"
W2-6
30"x30"
W13-IP
18"x18"

STA:9+94.54
R1-2
36"

EXCAVATE ISLAND FOR LANDSCAPING AND BACKFILL WITH TOPSOIL

STA:11+00

STA:12+00

STA:12+50

PROPOSED SIDEWALK WITHIN THE TOWNCENTER PHASE 1 DEVELOPMENT WILL BE EXTENDED TO EXISTING SIDEWALK WITHIN ROW

EXISTING CENTERLINE

EXISTING BUILDING LIMITS

N/F
DOWNTOWN DEVELOPMENT AUTHORITY OF SNELLVILLE
DB. 50756 PG. 138
PARCEL ID # 5039 009C
ZONED: BG

TRACT #8
PARCEL ID # 5039 013
ZONED: BG

TRACT #7
PARCEL ID # 5039 190, 5039 191, & 5039 036
ZONED: BG

TRACT #6
PARCEL ID # 5039 190
ZONED: OP

GEORGIA MUNICIPAL ASSOCIATION
N/F
DB. 4955 PG. 332
PARCEL ID # 5039 022

'A' SHEETS
'B' SHEETS
'B' SHEETS
'D' SHEETS

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20-LD-054 MAIN.DWG

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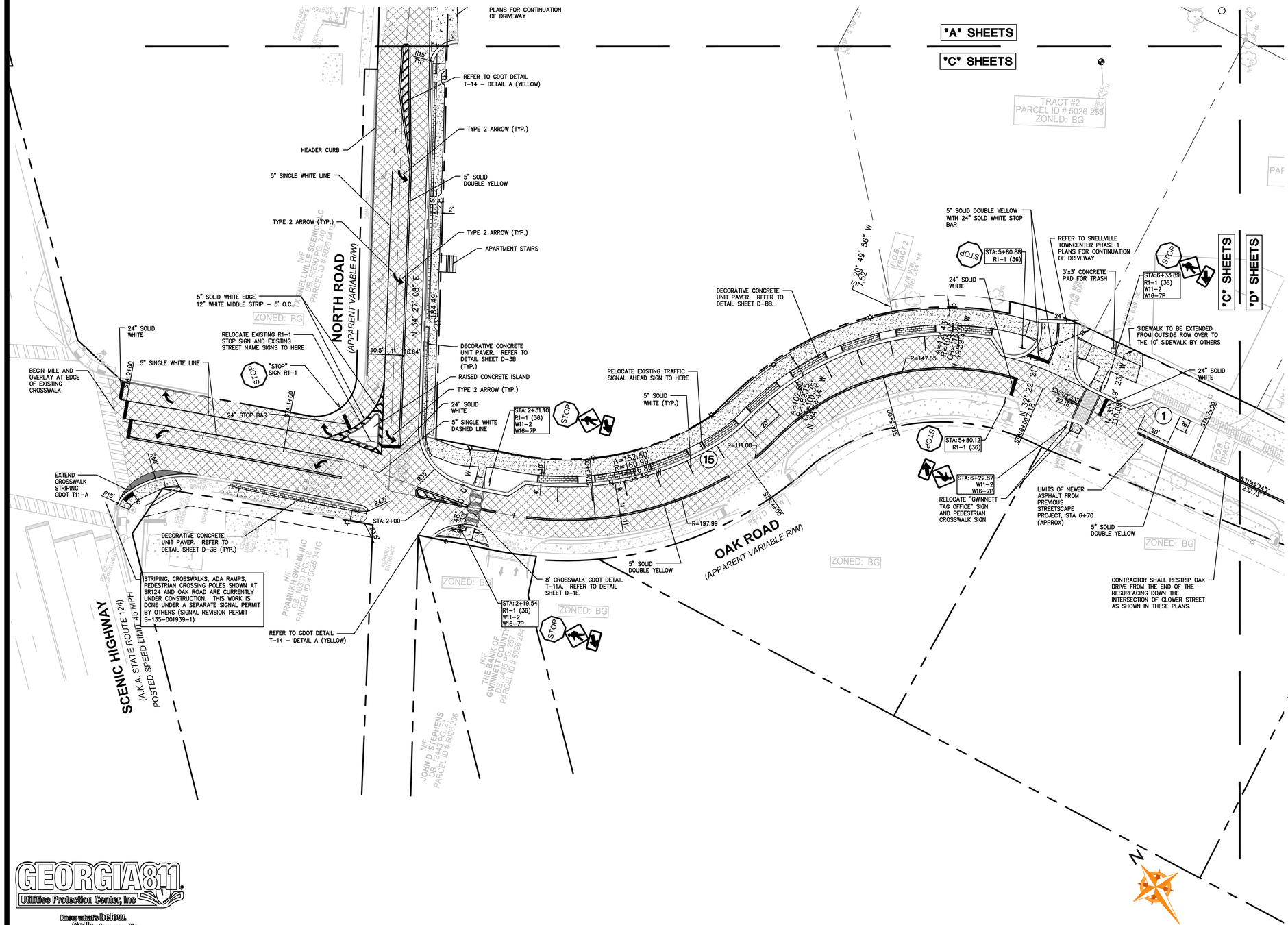

STRIPING PLAN

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.



LOCATION MAP
NOT TO SCALE

LEGEND FOR PROPOSED IMPROVEMENTS

- PROPOSED CURB AND GUTTER
- PAINTED TRAFFIC DIRECTION ARROW
- (5) PROPOSED PARKING SPACES
- FULL DEPTH REPLACEMENT
- CONCRETE SIDEWALK
- MILL AND OVERLAY

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GEORGIA REGISTERED No. PE034502 PROFESSIONAL ENGINEER 6/23/21 TODD L. SELDOMRIDGE
GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
LAND LOT 28 & 39, 5TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 038, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY	DMN
CHECKED BY	TLS
DATE:	06/23/2021
SCALE:	1"= 30'
JOB No.	20-LD-054
SHEET NUMBER	C-1C

20-LD-054 MAIN.DWG

USER #707 – Oct 07, 2021 – 9:21am
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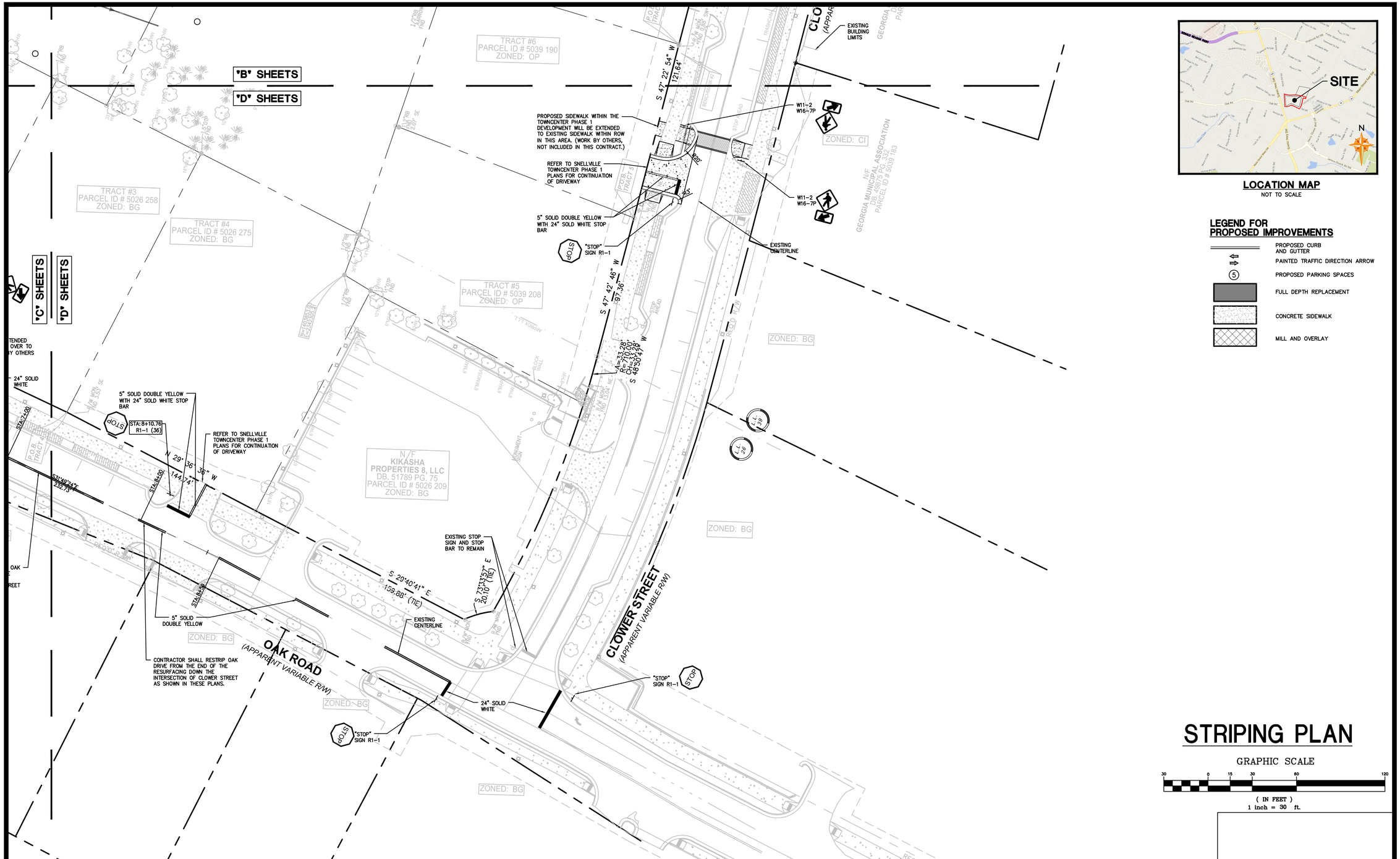

LOCATION MAP
NOT TO SCALE

LEGEND FOR PROPOSED IMPROVEMENTS

- PROPOSED CURB AND GUTTER
- PAINTED TRAFFIC DIRECTION ARROW
- (5) PROPOSED PARKING SPACES
- FULL DEPTH REPLACEMENT
- CONCRETE SIDEWALK
- MILL AND OVERLAY

STRIPING PLAN

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

N

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USER: 6701 - Jul 09, 2021 - 8:34am
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20-LD-054 MAIN.DWG

GRADING/DRAINAGE PLAN LEGEND

- STORM SEWER PIPING
- JUNCTION BOX/STORM MANHOLE
- SIPHONIC BREAK MANHOLE
- DRAINAGE STRUCTURE INDICATOR
- DOUBLE WING CATCH BASIN
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- SLOPE ARROW
- CONCRETE FLUME
- RIP-RAP APRON
- PRECAST HEADWALL STRUCTURE WITH ENERGY DISSIPATER
- CURB INLET (W/ NON-MOUNTABLE HOOD & GRATE)
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- DOUBLE GRATE INLET
- AREA INLET
- OUTLET CONTROL STRUCTURE
- FLARED END SECTION

TC = TOP OF CURB
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TW = TOP OF WALL
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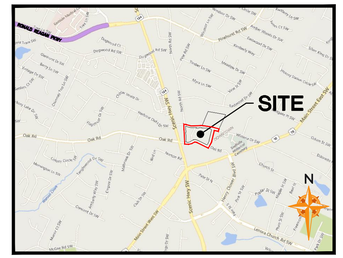

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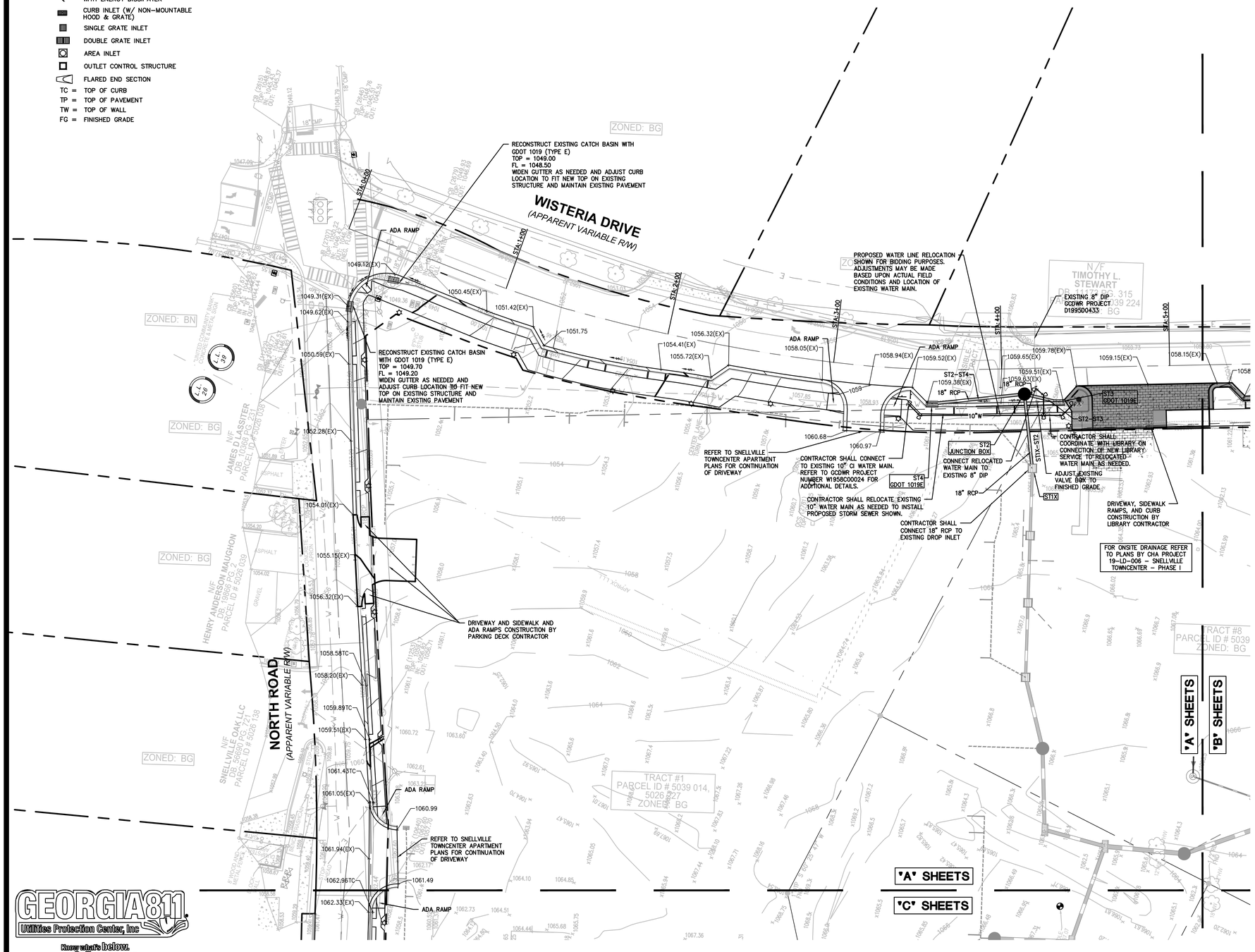

GRADING PLAN

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20-LD-054 MAIN.DWG

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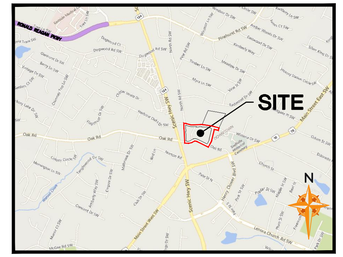

LOCATION MAP
NOT TO SCALE

FOR STORM OUTFALL PIPE REFER TO PLANS BY CPL PROJECT 14662.00 – SNELLVILLE TOWNE CENTER MULTI-USE TRAIL – PHASE I

N/F DOWNTOWN DEVELOPMENT AUTHORITY OF SNELLVILLE DB. 50756 PG. 138 PARCEL ID # 5039 009C ZONED: BG

WISTERIA DRIVE (APPARENT VARIABLE R/W)

CLOWER STREET (APPARENT VARIABLE R/W)

CONNECT NEW SIDEWALK AND RAMP TO EXISTING CITY TRAIL PATHWAY

18" RCP

DECORATIVE CONCRETE UNIT PAVER. REFER TO DETAIL SHEET D-1B (TYP.)

SPEED TABLE. REFER TO SHEET D-1E FOR DETAILS.

CONNECT TO EXISTING SWCB CONVERT TO JUNCTION BOX

MATCH EXISTING CURB GRADE

ADA RAMP

ADJUST EXISTING VALVE BOX TO FINISHED GRADE

CONTRACTOR SHALL CONNECT 18" RCP TO EXISTING CURB INLET

REFER TO SNELLVILLE TOWNCENTER PHASE 1 PLANS FOR CONTINUATION OF DRIVEWAY

MATCH EXISTING SIDEWALK GRADE

SPLITTER ISLAND RAISED CONCRETE

CONCRETE HEADER CURB, TYPE/ 7

ADJUST RIM TO FINISHED GRADE

10' CONCRETE SIDEWALK

TRUCK APRON

BLISTER ISLAND

6" CURB

EXTEND SIDEWALK FROM RAMP TO EXISTING SIDEWALK AND MATCH GRADE

REMOVE AND REPLACE TOP OF DWCB TO MATCH NEW CURB LINE

CONTRACTOR SHALL REMOVED AND REPLACE CONCRETE SIDEWALK BETWEEN EXISTING STAIRS AND 2' GRASS STRIP.

EXTEND NEW 10' SIDEWALK FROM NEW ADA RAMP TO EXISTING SIDEWALK AND MATCH GRADES

RECONSTRUCT CONCRETE FLUME WITH COVER ACROSS WIDTH OF THE NEW SIDEWALK. REFER TO DETAIL ON SHEET D-1E FOR ADDITIONAL

TRACT #8 PARCEL ID # 5039 013 ZONED: BG

TRACT #7 PARCEL ID # 5039 190 5039 [illegible] & 5039 ZONED: BG

TRACT #6 PARCEL ID # 5039 190 ZONED: OP

'A' SHEETS

'B' SHEETS

'B' SHEETS

'D' SHEETS

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GRADING PLAN

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
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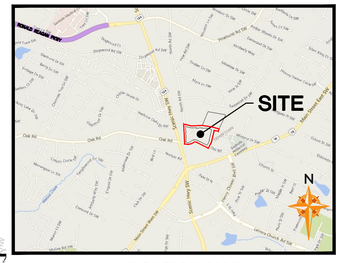
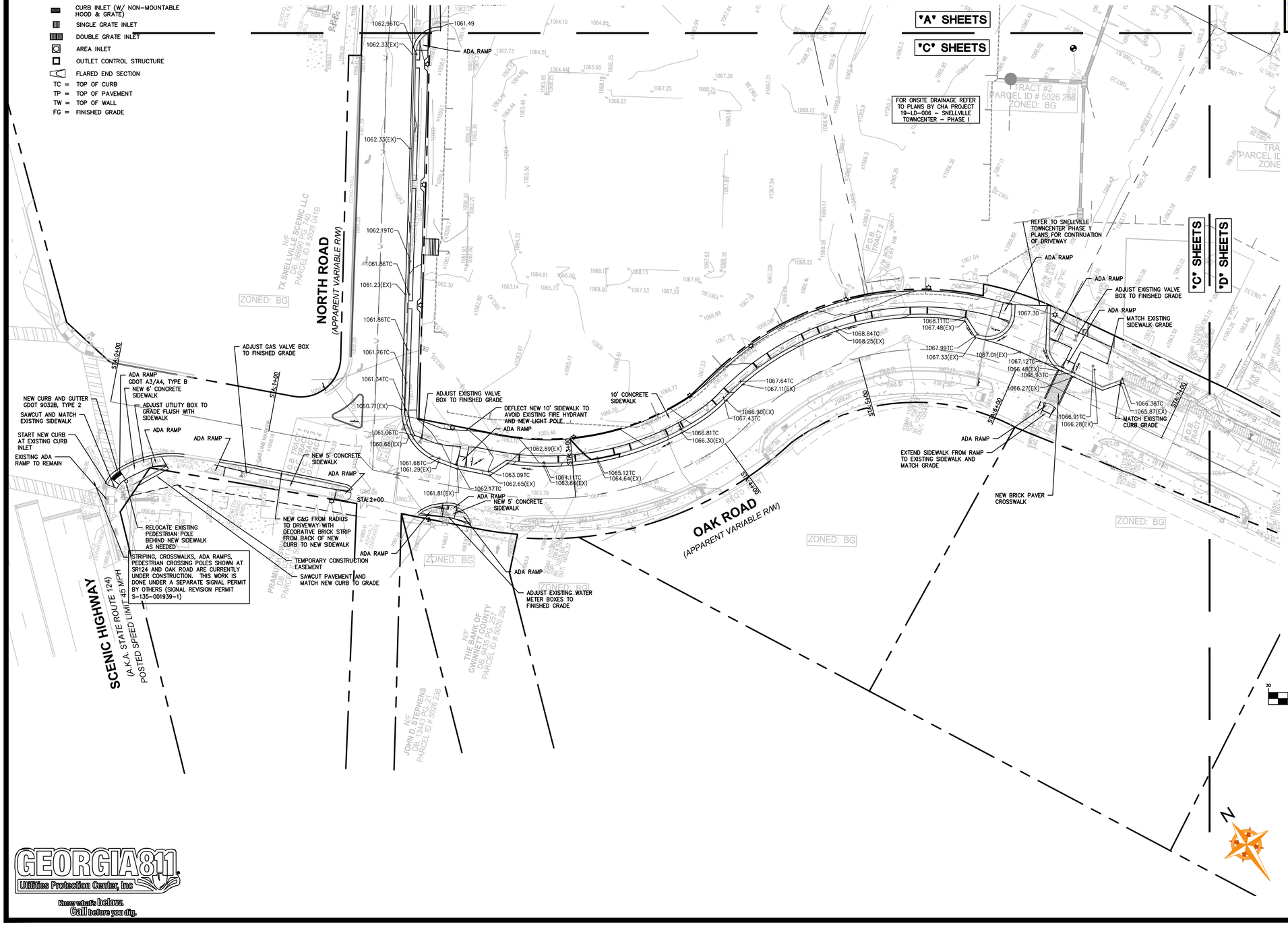


LOCATION MAP
NOT TO SCALE



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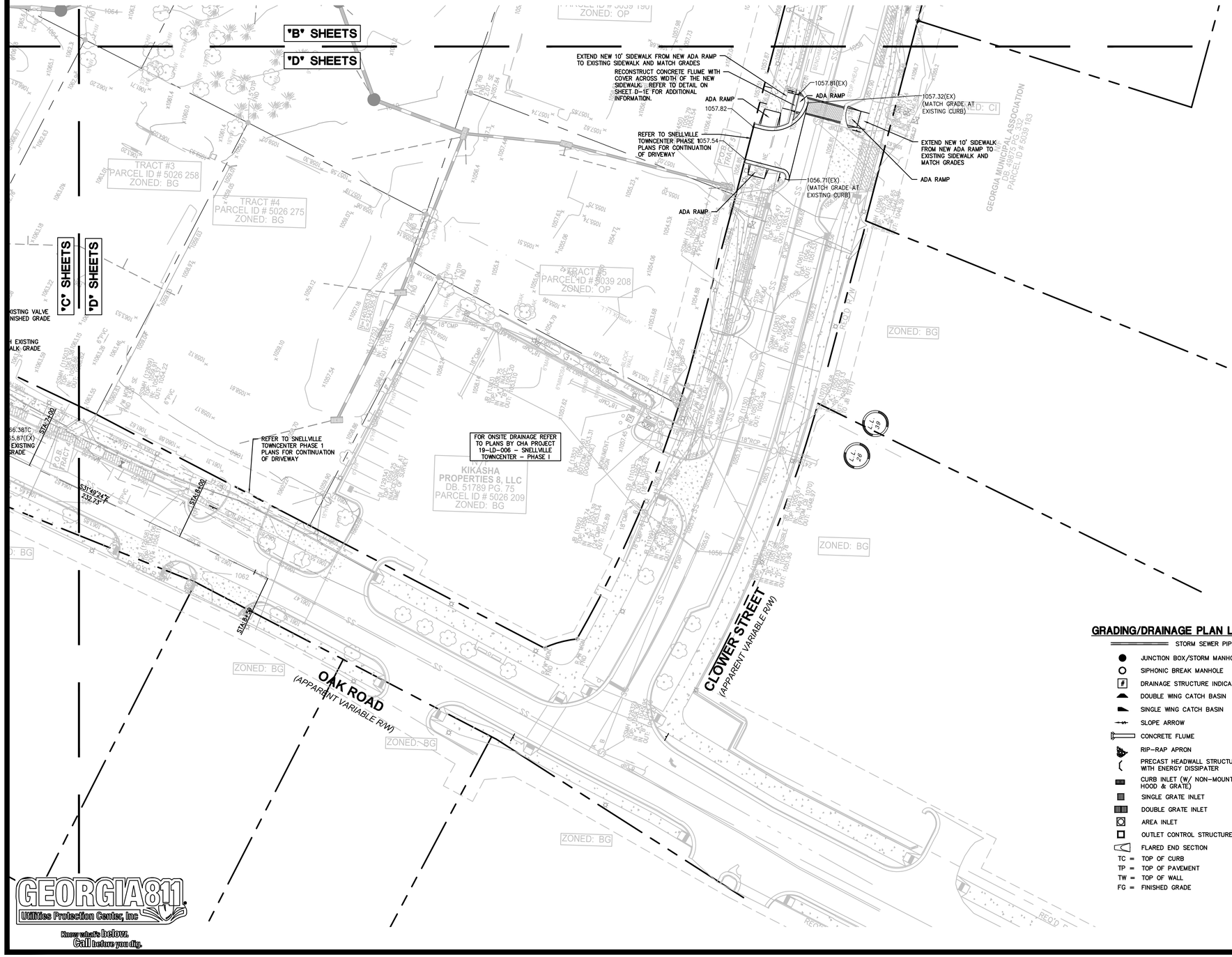

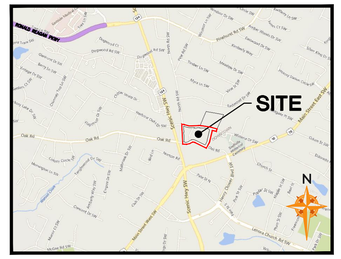

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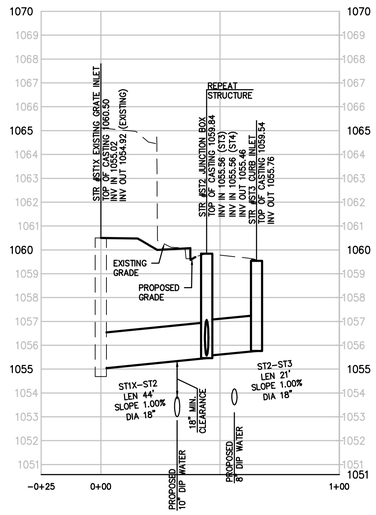
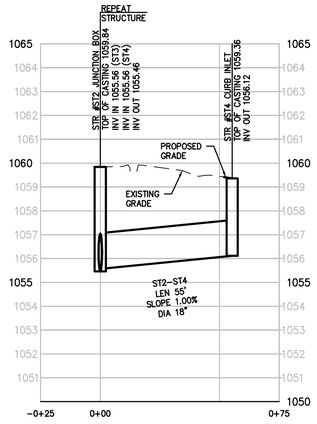


ST1X THRU ST3

scale: 1"=30' horizontal
1"=3' vertical



ST2 TO ST4

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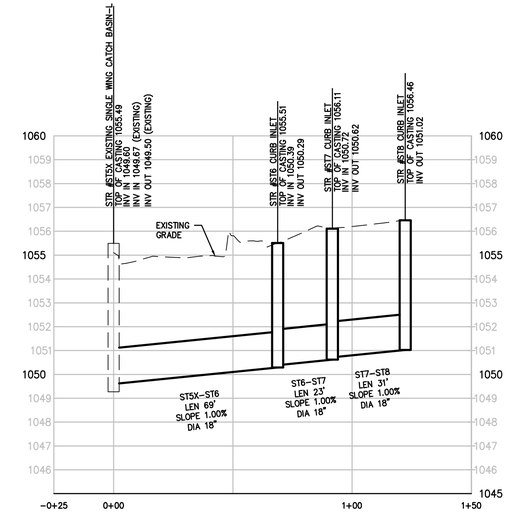
1"=3' vertical



ST5X THRU ST8

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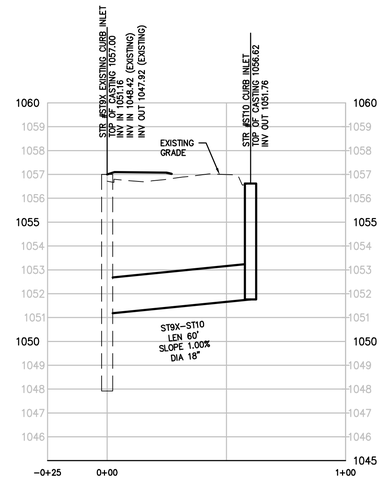

ST9X THRU ST10

scale: 1"=30' horizontal
1"=3' vertical

STRUCTURE TABLE

STRUCTURE #	STRUCTURE TYPE	TOP OF CASTING	INVERT OUT	INVERT IN
ST1X	EXISTING GRATE INLET	1060.50		1055.02 (ST2)
ST2	JUNCTION BOX	1059.84	1055.46	1055.56 (ST3) 1055.56 (ST4)
ST3	CURB INLET	1059.54	1055.76	
ST4	CURB INLET	1059.36	1056.12	
ST5X	EXISTING SINGLE WING CATCH BASIN–L	1055.49		1049.60 (ST6)
ST6	CURB INLET	1055.51	1050.29	1050.39 (ST7)
ST7	CURB INLET	1056.11	1050.62	1050.72 (ST8)
ST8	CURB INLET	1056.46	1051.02	
ST9X	EXISTING CURB INLET	1057.00		1051.16 (ST10)
ST10	CURB INLET	1056.62	1051.76	

PIPE TABLE

PIPE NAME	LENGTH	SIZE	SLOPE
ST1X–ST2	44	18	1.00%
ST2–ST3	21	18	1.00%
ST2–ST4	55	18	1.00%
ST5X–ST6	69	18	1.00%
ST6–ST7	23	18	1.00%
ST7–ST8	31	18	1.00%
ST9X–ST10	60	18	1.00%

STORM SEWER PROFILES AND TABLES

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NOTE
CONTRACTOR IS RESPONSIBLE FOR COMPARING THE STORM AND SANITARY SEWER SCHEDULES WITH THE PROFILES FOR THE STORM AND SEWER LINES AND INFORMING THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.

PIPE LENGTHS SHOWN ON THE PIPE TABLE ARE MEASURED FROM CENTERLINE TO CENTERLINE OF THEIR RESPECTIVE STRUCTURES

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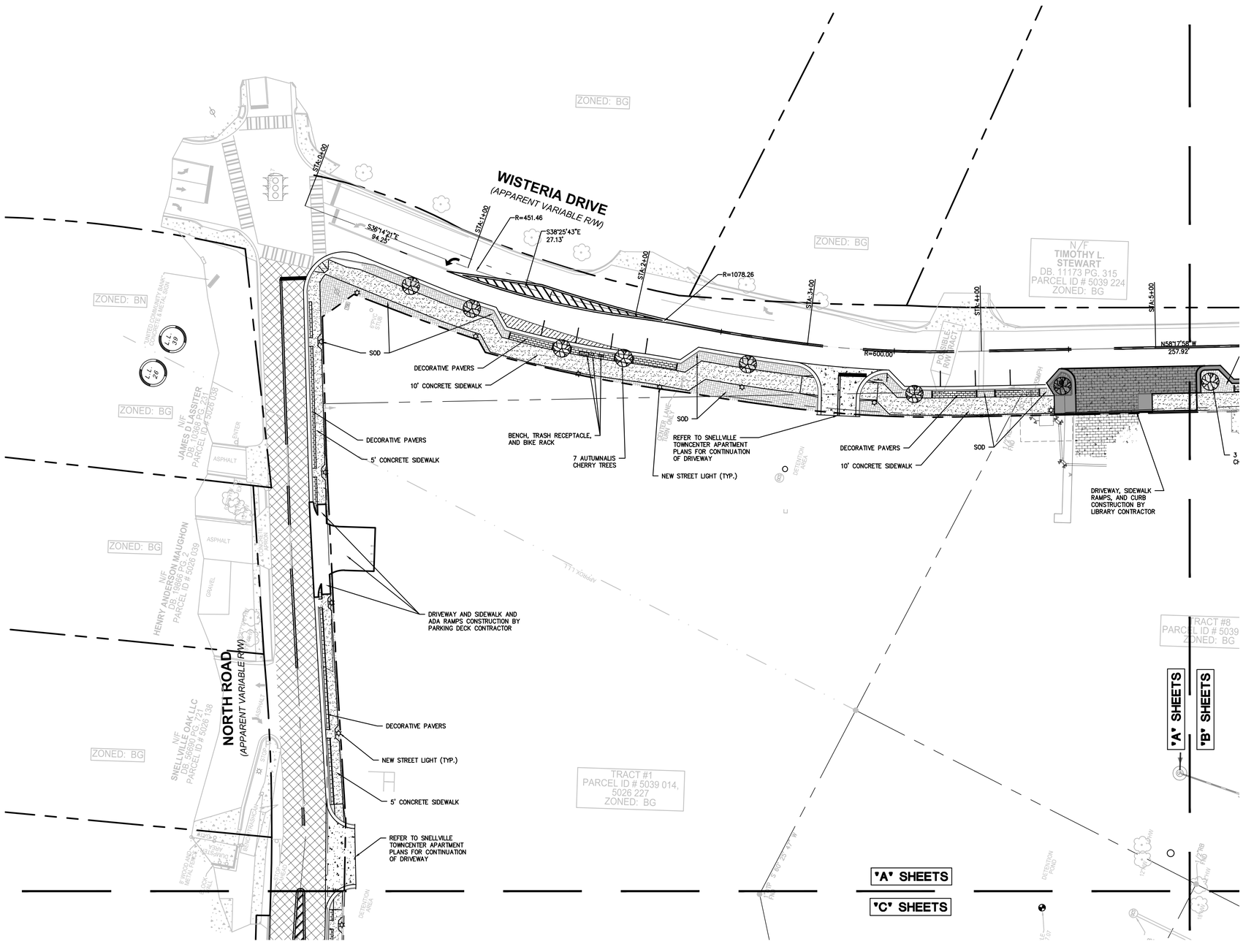

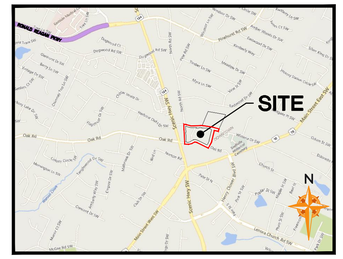

LOCATION MAP
NOT TO SCALE

LANDSCAPE AND HARDSCAPE PLAN

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED No. PE034502 PROFESSIONAL 6/23/21 ENGINEER TODD L. SELDOMRIDGE
GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
LAND LOT 28 & 39, 6TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 038, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY	DMN
CHECKED BY	TLS
DATE:	06/23/2021
SCALE:	1"= 30'
JOB No.	20-LD-054
SHEET NUMBER	C-3A

20-LD-054 MAIN.DWG

USER 6701 – Jun 23, 2021 – 3:00pm
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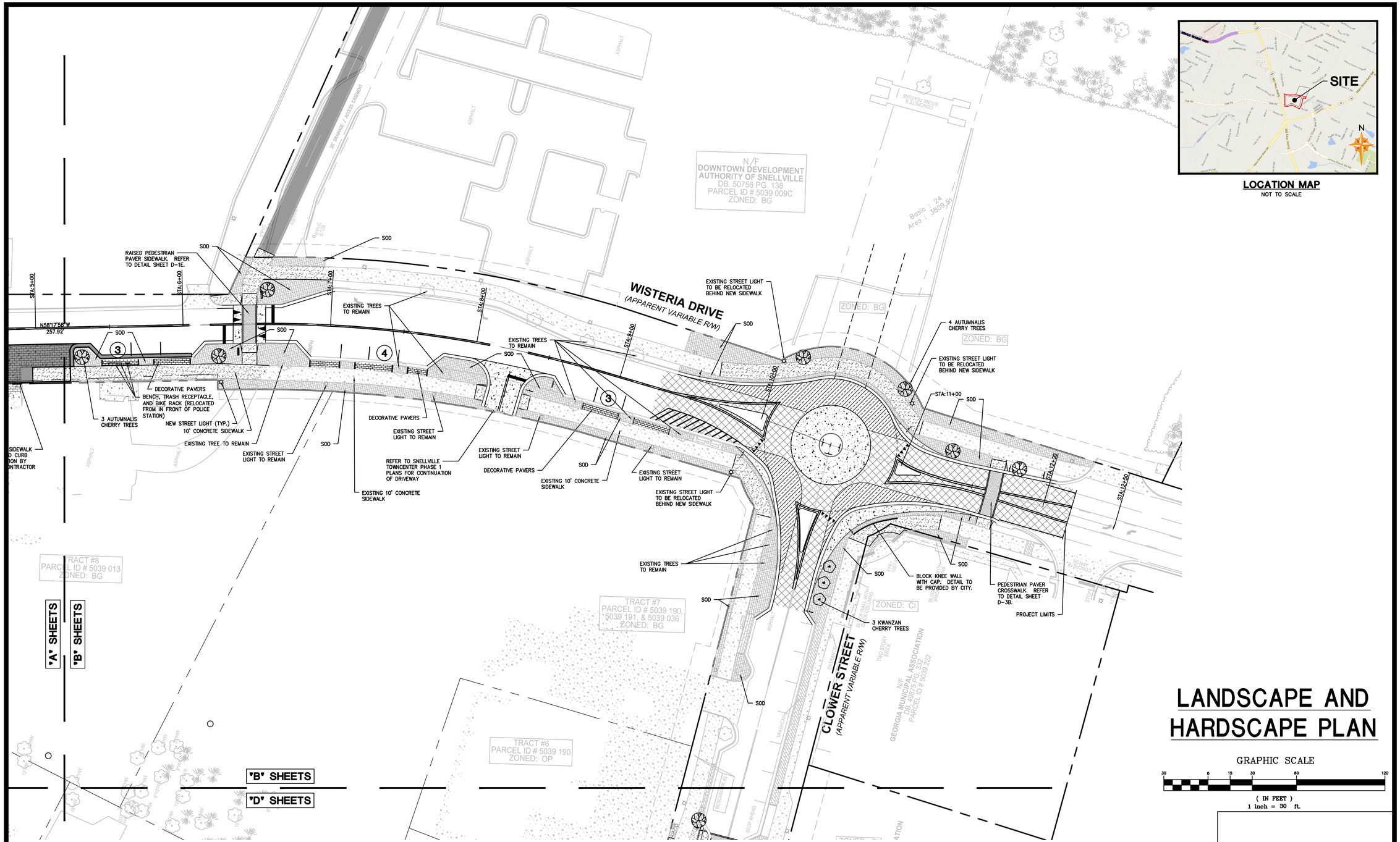

LANDSCAPE AND HARDSCAPE PLAN

GRAPHIC SCALE

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GEORGIA REGISTERED No. PE034502 PROFESSIONAL ENGINEER
6/23/21
TODD L. SELDOMRIDGE
GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
LAND LOT 28 & 38, 6TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 036, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY DMN
CHECKED BY TLS
DATE: 06/23/2021
SCALE: 1"= 30'
JOB No. 20-LD-054
SHEET NUMBER
C-3B

20-LD-054 MAIN.DWG

USER: 6701 - Jun 23, 2021 - 3:01pm
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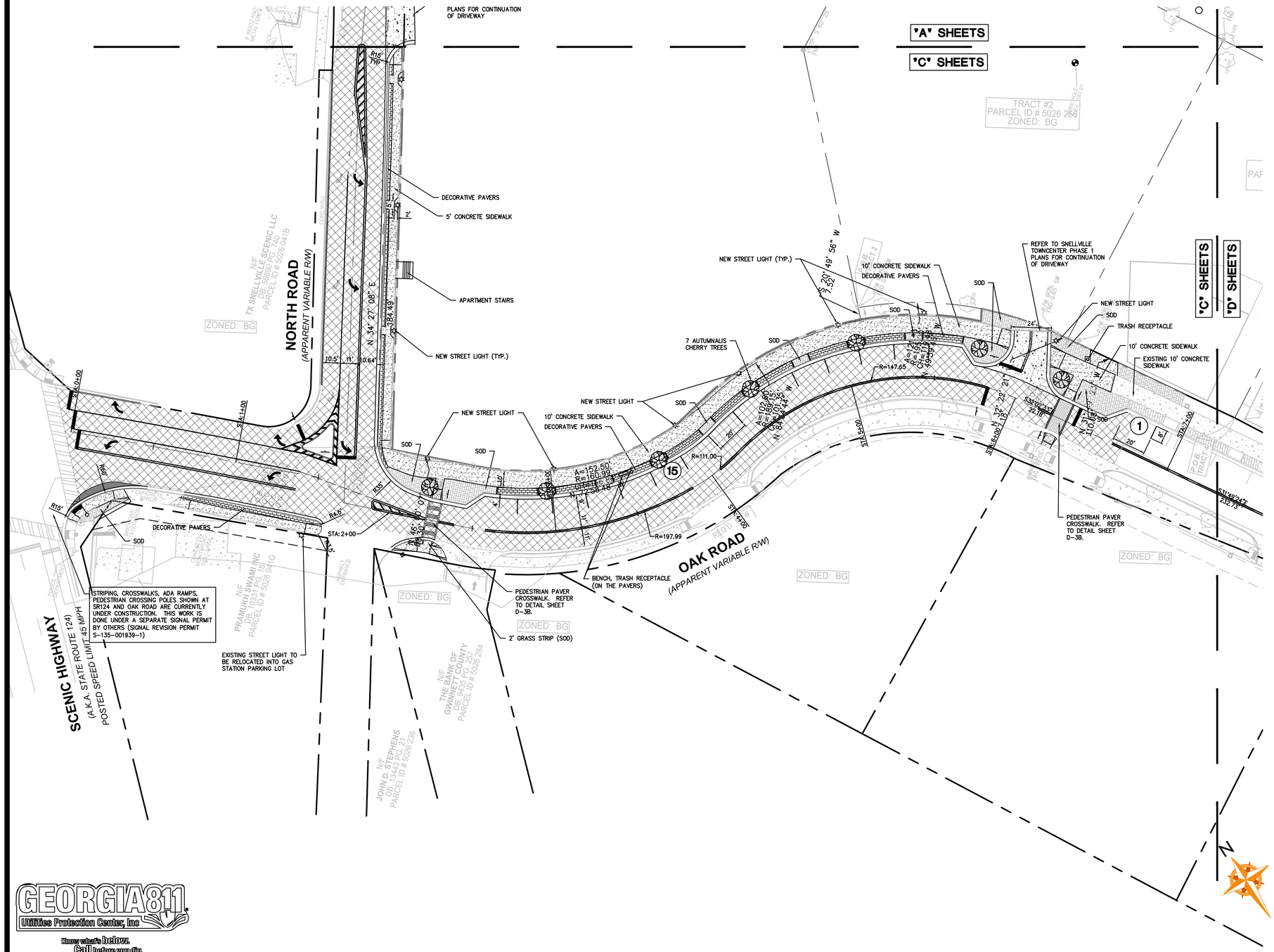

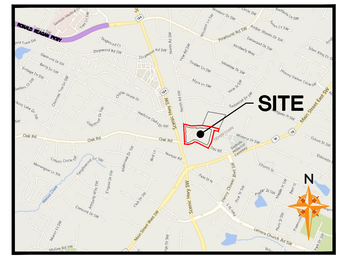

LOCATION MAP
NOT TO SCALE

LANDSCAPE AND HARDSCAPE PLAN

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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GEORGIA REGISTERED No. PE034502 PROFESSIONAL ENGINEER TODD L. SELDOMRIDGE
6/23/21
GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
LAND LOT 28 & 38, 5TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 038, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY	DMN
CHECKED BY	TLS
DATE:	06/23/2021
SCALE:	1"= 30'
JOB No.	20-LD-054
SHEET NUMBER	C-3C

20-LD-054 MAIN.DWG

USER: 6707 - Oct. 07, 2021 - 8:27am
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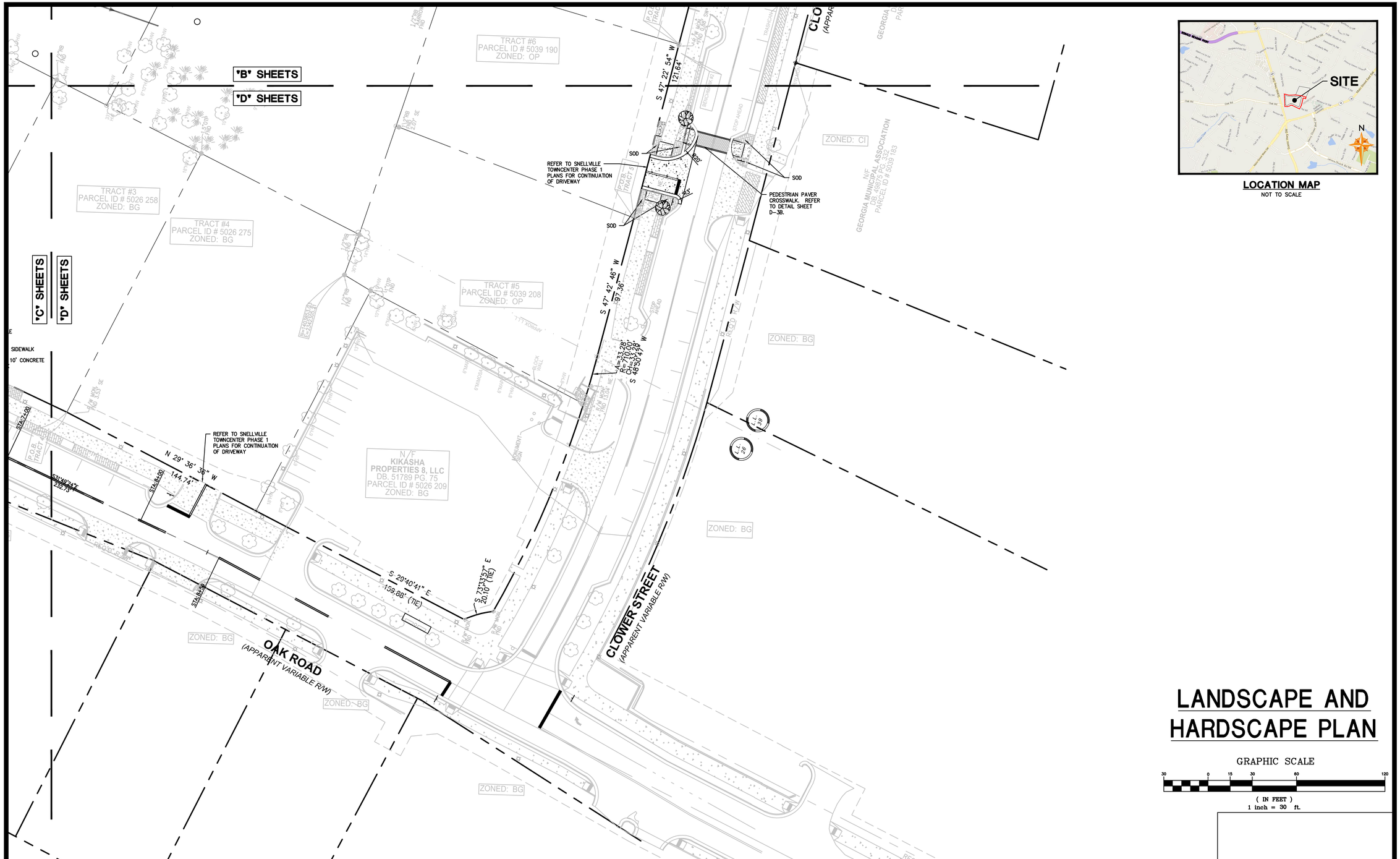

LOCATION MAP
NOT TO SCALE

LANDSCAPE AND HARDSCAPE PLAN

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

GEORGIA811
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770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. PE034502 PROFESSIONAL 6/23/21 ENGINEER TODD L. SELDOMRIDGE

GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
LAND LOT 26 & 39, 5TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 036, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY DMN
CHECKED BY TLS
DATE: 06/23/2021
SCALE: 1"= 30'
JOB No. 20-LD-054
SHEET NUMBER
C-1D

20-LD-054 MAIN.DWG

USER: 6701 - Jun 23, 2021 - 3:03pm
Z:\All Project Data\Projects\2020\20-LD-054 Snellville (The Grove-City Streets) GA\LD\Production\Production Drawings\20-LD-054 MAIN.dwg - LAYOUT: C-3D VERSION: -----

(36) 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		Co	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Di	DIVERSION		Di	An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dm1	TEMPORARY DOWNDRAIN STRUCTURE		Dm1	A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary, and inexpensive.
Fr	FILTER RING		Fr	A temporary stone barrier constructed at storm drain inlets and pond outlets.
Rd	ROCK FILTER DAM		Rd	A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL		Re	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		Rt	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		(TYPE "C")	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		Sd2	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		Sd3	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.
Sk	FLOATING SURFACE SKIMMER		Sk	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Sr	TEMPORARY STREAM CROSSING		Sr	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION		St	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		Su	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
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.

(36) VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		Bf	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
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.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

SOIL SERIES LEGEND (46)

- AmC2 — APPLING SANDY LOAM, 6–10% SLOPES, MODERATELY ERODED; HSG:B
- ApB — APPLING–HARD LABOR COMPLEX, 2–6% SLOPES; HSG: B
- PfB2 — PACOLET SANDY LOAM, 2–6% SLOPES, MODERATELY ERODED; HSG: B
- ToA — TOCCOA FINE SANDY LOAM, 0–4% SLOPES, FREQUENTLY FLOODED; HSG: A

PROVIDE TEMPORARY IRRIGATION OR WATERING, VIA WATER TRUCK, AS NEEDED TO ESTABLISH TEMPORARY AND PERMANENT VEGETATION UNTIL THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTION OR UNTIL THE NOT IS SUBMITTED IF A PERMANENT IRRIGATION SYSTEM ISN'T PLANNED. AREAS NOT HAVING A PERMANENT IRRIGATION SYSTEM SHALL BE IRRIGATED OR WATERED UNTIL THE NOT HAS BEEN SUBMITTED AND ACCEPTED.

REFER TO PLAN SHEET ES-4 FOR FOR GENERAL NOTES, MAINTENANCE NOTES, SITE DATA & QUAD MAP

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

NOTE: SEE SURVEY FOR EXISTING LEGEND SYMBOLS

DEVELOPER/OWNER:
CITY OF SNELLVILLE
2342 OAK ROAD
SNELLVILLE, GA 30078
770-985-3516

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

(24) 24 HR LOCAL EMERGENCY CONTACT

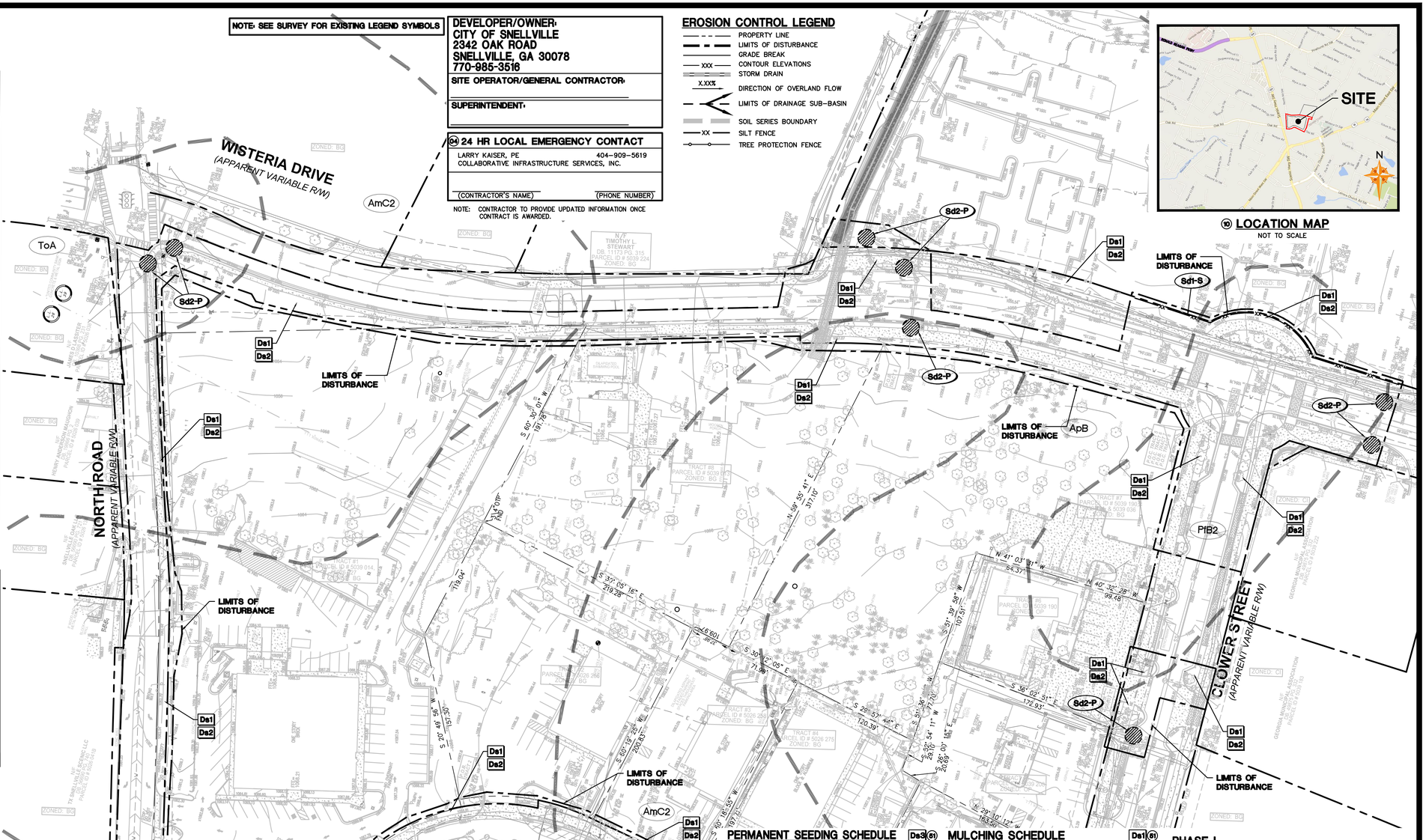
LARRY KAISER, PE — 404-909-5619
COLLABORATIVE INFRASTRUCTURE SERVICES, INC.

(CONTRACTOR'S NAME) (PHONE NUMBER)

NOTE: CONTRACTOR TO PROVIDE UPDATED INFORMATION ONCE CONTRACT IS AWARDED.

EROSION CONTROL LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- GRADE BREAK
- XXX CONTOUR ELEVATIONS
- STORM DRAIN
- X.XX% DIRECTION OF OVERLAND FLOW
- LIMITS OF DRAINAGE SUB-BASIN
- SOIL SERIES BOUNDARY
- XX SILT FENCE
- TREE PROTECTION FENCE



(10) LOCATION MAP

NOT TO SCALE

PERMANENT SEEDING SCHEDULE (Ds3)(S1)

SPECIES	RATE/ACRE	PLANTING DATES
COMMON BERMUDA (HULLED) (CYNODON DACTYLON)	10 LBS	MARCH 1–JULY 1
COMMON BERMUDA (UNHULLED) (CYNODON DACTYLON)	10 LBS	OCT 1–MAR 1
BAHIA PENSACOLA (PASPALUM NOTATUM)	60 LBS	JAN 1–DEC 31

NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE REFER TO ES-4 FOR FERTILIZER REQUIREMENTS

SOD PLANTING AND FERTILIZATION REQUIREMENTS (Ds4)(S1)

SPECIES	FERTILIZER (N–P–K)	RATE (lbs/AC)	NITROGEN TOP DRESSING RATE (lbs/AC)
BERMUDA GRASS (COMMON)	6–12–12	1,500	50–100

NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE REFER TO ES-4 FOR FERTILIZER REQUIREMENTS

MULCHING SCHEDULE (Ds1)(S1)

MULCHING MATERIAL	RATE/ACRE
DRY STRAW OR HAY	2.5 TONS
WOOD WASTE, CHIPS, SAWDUST, OR BARK	6 TO 9 TONS (2 TO 3" DEEP)

TEMPORARY SEEDING SCHEDULE (Ds2)(S1)

SPECIES (MIXTURE OF)	RATE/ACRE	PLANTING DATES
SUDAN (SWEET OR TIFT)	60 LBS	APRIL1–SEPT 1
ANNUAL RYE GRASS	40 LBS	AUG 1–APRIL 15

NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE REFER TO ES-4 FOR FERTILIZER REQUIREMENTS

PHASE I

1. SCHEDULE AND CONDUCT A CITY PRE-CONSTRUCTION MEETING.
2. INSTALL SILT FENCE ON THE SITE. (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCING.)
3. INSTALL INLET PROTECTION ON EXISTING DRAINAGE STRUCTURES.
4. GA 7 DAY BMP INSPECTION REQUEST
   THE GENERAL CONTRACTOR SHALL CONTACT THE ENGINEER TO SCHEDULE AN INSPECTION OF THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.

CONSERVATION COMMISSION NOTES

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

(19) **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.**

ALL EROSION & SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ONSITE INSPECTION BY THE ISSUING AUTHORITY.

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

(26) ACREAGE SUMMARY (IN ACRES)

SITE AREA	5.62 AC±
ON-SITE DISTURBED AREA	3.11 AC±
OFF-SITE DISTURBED AREA	0.00 AC±
TOTAL DISTURBED AREA (MUST MATCH NOI)	3.51 AC±
IMPERVIOUS AREA AT COMPLETION	2.64 AC±
PERVIOUS AREA AT COMPLETION	0.87 AC±

(XX) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET ES-4 FOR ES&PC CHECKLIST.

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

PHASE I
EROSION SEDIMENTATION & POLLUTION CONTROL PLAN

CLA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED No. PE034502 PROFESSIONAL 6/23/21 ENGINEER TODD L. SELDOMRIDGE
GSWCC# 3039

(02) **Project Title**
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
LAND LOT 26 & 39, 5TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 036, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

(04) REVISIONS	BY

DRAWN BY: DMN
CHECKED BY: TLS
DATE: (08) 06/23/2021
SCALE: 1"= 50'
JOB No.: 20-LD-054
SHEET NUMBER: ES-1

20-LD-054 MAIN.DWG

USER 6701 – Jun 23, 2021 – 3:35pm
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NOTE: SEE SURVEY FOR EXISTING LEGEND SYMBOLS

DEVELOPER/OWNER:
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2342 OAK ROAD
SNELLVILLE, GA 30078
770-985-3516

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

(04) 24 HR LOCAL EMERGENCY CONTACT

LARRY KAISER, PE 404-909-5619
COLLABORATIVE INFRASTRUCTURE SERVICES, INC.

(CONTRACTOR'S NAME) (PHONE NUMBER)

NOTE: CONTRACTOR TO PROVIDE UPDATED INFORMATION ONCE CONTRACT IS AWARDED.

EROSION CONTROL LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- GRADE BREAK
- XXX CONTOUR ELEVATIONS
- STORM DRAIN
- X.XX% DIRECTION OF OVERLAND FLOW
- LIMITS OF DRAINAGE SUB-BASIN
- SOIL SERIES BOUNDARY
- XX SILT FENCE
- TREE PROTECTION FENCE

(10) LOCATION MAP

NOT TO SCALE



SOIL SERIES LEGEND (49)

- AmC2 APPLING SANDY LOAM, 6–10% SLOPES, MODERATELY ERODED; HSG:B
- ApB APPLING–HARD LABOR COMPLEX, 2–6% SLOPES; HSG: B
- PfB2 PACOLET SANDY LOAM, 2–6% SLOPES, MODERATELY ERODED; HSG: B
- ToA TOCCOA FINE SANDY LOAM, 0–4% SLOPES, FREQUENTLY FLOODED; HSG: A

(38) 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		Co	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
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.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Rd	ROCK FILTER DAM		Rd	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		(TYPE "C")	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.
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.
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure for 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.
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.

(38) VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		Bf	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
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.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

PERMANENT SEEDING SCHEDULE (Ds3)(S1)

SPECIES	RATE/ACRE	PLANTING DATES
COMMON BERMUDA (HULLED) (CYNODON DACTYLON)	10 LBS	MARCH 1–JULY 1
COMMON BERMUDA (UNHULLED) (CYNODON DACTYLON)	10 LBS	OCT 1–MAR 1
BAHIA PENSACOLA (PASPALUM NOTATUM)	60 LBS	JAN 1–DEC 31

NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE
REFER TO ES-4 FOR FERTILIZER REQUIREMENTS

SOD PLANTING AND FERTILIZATION REQUIREMENTS (Ds4)(S1)

SPECIES	FERTILIZER (N–P–K)	RATE (lbs/AC)	NITROGEN TOP DRESSING RATE (lbs/AC)
BERMUDA GRASS (COMMON)	6–12–12	1,500	50–100

NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE
REFER TO ES-4 FOR FERTILIZER REQUIREMENTS

MULCHING SCHEDULE (Du)(S1)

MULCHING MATERIAL	RATE/ACRE
DRY STRAW OR HAY	2.5 TONS
WOOD WASTE, CHIPS, SAWDUST, OR BARK	6 TO 9 TONS (2 TO 3" DEEP)

TEMPORARY SEEDING SCHEDULE (Ds2)(S1)

SPECIES (MIXTURE OF)	RATE/ACRE	PLANTING DATES
SUDAN (SWEET OR TIFT)	60 LBS	APRIL1–SEPT 1
ANNUAL RYE GRASS	40 LBS	AUG 1–APRIL 15

NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE
REFER TO ES-4 FOR FERTILIZER REQUIREMENTS

PHASE III

1. BEGIN CLEARING AND GRUBBING THE SITE INCLUDING DEMOLITION.
2. TEMPORARILY SEE, THROUGHOUT CONSTRUCTION, DENUDED AREA THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.
3. BEGIN STORM SEWER AND UTILITY INSTALLATION.
4. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
5. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL DISTURBED AREAS AS COMPLETED.
6. COMPLETE HARDSCAPE (PAVING, CURBS , SIDEWALKS, LIGHTS, SIGNAGE, STRIPING, ETC).
7. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
8. INSTALL FINAL LANDSCAPING.
9. AFTER FINAL VEGETATION HAS BEEN ESTABLISHED, REMOVE ALL BMPS.
10. FILE NPDES NOT FOR THE SITE.

PROVIDE TEMPORARY IRRIGATION OR WATERING, VIA WATER TRUCK, AS NEEDED TO ESTABLISH TEMPORARY AND PERMANENT VEGETATION UNTIL THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTION OR UNTIL THE NOT IS SUBMITTED IF A PERMANENT IRRIGATION SYSTEM ISN'T PLANNED. AREAS NOT HAVING A PERMANENT IRRIGATION SYSTEM SHALL BE IRRIGATED OR WATERED UNTIL THE NOT HAS BEEN SUBMITTED AND ACCEPTED.

REFER TO PLAN SHEET ES-4 FOR FOR GENERAL NOTES, MAINTENANCE NOTES, SITE DATA & QUAD MAP

GEORGIA 811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

CONSERVATION COMMISSION NOTES

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

(19) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.

ALL EROSION & SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ONSITE INSPECTION BY THE ISSUING AUTHORITY.

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

(08) ACREAGE SUMMARY (IN ACRES)

SITE AREA		5.62 AC±
ON-SITE DISTURBED AREA		3.11 AC±
OFF-SITE DISTURBED AREA		0.00 AC±
TOTAL DISTURBED AREA	(MUST MATCH NOI)	3.51 AC±
IMPERVIOUS AREA AT COMPLETION		2.64 AC±
PERVIOUS AREA AT COMPLETION		0.87 AC±

(XX) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET ES-4 FOR ES&PC CHECKLIST.

GRAPHIC SCALE

(36) 50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

PHASE II
EROSION SEDIMENTATION & POLLUTION CONTROL PLAN

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED No. PE034502 PROFESSIONAL 6/23/21 ENGINEER TODD L. SELDOMRIDGE
GSWCC# 3039

(02) Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
LAND LOT 26 & 39, 5TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 038, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

(08) REVISIONS	BY

DRAWN BY DMN
CHECKED BY TLS
DATE: (08) 06/23/2021
SCALE: 1"= 50'
JOB No. 20-LD-054
SHEET NUMBER
ES-2

20-LD-054 MAIN.DWG

USER: 6701 – Jun 23, 2021 – 3:36pm
Z:\All Project Data\Projects\2020\20-LD-054 Snellville (The Grove–City Streets) GA\LD\Production\Production Drawings\20-LD-054 MAIN.dwg – LAYOUT: ES-2 VERSION: -----

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

SWCD:_____ Gwinnett County

Project Name:_____ The Grove @ Snellville Roadway Improvements — Address:_ Wisteria Dr, North Rd, and Oak Rd, Snellville, GA

City/County:_ City of Snellville/Gwinnett County — Date on Plans:_ 4/2/2021

Name & email of person filling out checklist:_____ Todd Sledomridge (tseldomridge@chacompies.com

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
ES-3	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
ALL SHEETS	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
ES-1,2	Y	3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. A separate GAEPD application request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. * (A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)
ES-1,2,3,4	Y	4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
ES-4	Y	5 Provide the name, address, email address, and phone number of primary permittee.
ES-1,2	Y	6 Note total and disturbed acreages of the project or phase under construction.
C-CLES-1,2	Y	7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
ALL SHEETS	Y	8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
ES-3	Y	9 Description of the nature of construction activity and existing site conditions.
ES-1,2	Y	10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
ES-3	Y	11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
ES-4	Y	12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 19 of the permit.
ES-4	Y	13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit.
ES-3	Y	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and all erosion control BMPs within 7 days after installation." in accordance with Part IV.A.5 page 25 of the permit. *
ES-4	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
N/A	N/A	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
ES-4	Y	17 Clearly note the statement that "Amendment/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
ES-4	Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
ES-1,2	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
ES-1,2	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
ES-1,2	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
ES-4	Y	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III .C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
N/A	N/A	23 If a TMDL implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of this ES&PC Plan the Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
ES-1,2,3,4,D-4A,B	Y	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
ES-3	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
	Y	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
ES-3	Y	27 Description of practices to provide cover for building materials and building products on site. *
ES-3	Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
ES-4	Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
ES-3	Y	30 Provide complete requirements of inspections and record keeping by the primary permittee. *
ES-3	Y	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
ES-3	Y	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
ES-3	Y	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
ES-1,2	Y	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
ES-1,2	Y	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *
ES-1,2,3,4	Y	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
ES-1,2	Y	37 Graphic scale and North arrow.
ES-1,2	Y	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft
1 inch = 1000 or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

N/A	N/A	39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless designed by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
N/A	N/A	40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
N/A	N/A	41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
N/A	N/A	42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
ES-1	Y	43 Delineation and acreage of contributing drainage basins on the project site.
N/A	N/A	44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
ES-3	Y	45 An estimate of the runoff coefficient or peak discharge flow for the site prior to and after construction activities are completed.
ES-1,2	Y	46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
ES-1,2	Y	47 Soil series for the project site and their delineation.
ES-1,2	Y	48 The limits of disturbance for each phase of construction.
ES-1,2	Y	49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
ES-1,2	Y	50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
D-4A,B	Y	51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
ES-1,2	Y	52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.

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

Effective January 1, 2021

(xx) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST

SITE DESCRIPTION
DEVELOPER: CITY OF SNELLVILLE
2342 OAK ROAD
SNELLVILLE, GA 30078
24 HOUR CONTACT: LARRY KAISER, PE
TELEPHONE: 404-909-5619

(06) **PROJECT DESCRIPTION**
THIS PROJECT CONSISTS OF ROADWAY IMPROVMENTS INCLUDING ON STREET PARKING, SIDEWALKS, DEDEL LANES AND A ROUND ABOUT. THE TOTAL SITE AREA AND TOTAL DISTURBED AREA ARE LISTED BELOW. THIS SITE IS LOCATED IN A DEVELOPED AREA.

ZONING
THE PROPOSED DEVELOPMENT IS ZONED BG.

EARTHWORK
THE VOLUME OF CUT IS 500 CY.
THE VOLUME OF FILL IS 600 CY.
* EARTHWORK NUMBERS ARE PROVIDED PER THE STATE'S STORMWATER PERMIT AND SHOULD NOT BE USED FOR BIDDING PURPOSES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM HIS/HER OWN QUANTITY TAKE OFF FOR BIDDING PURPOSES.

ADJACENT AREA INFORMATION AND EXISTING CONDITIONS
THIS SITE IS LOCATED IN LL 39, 5TH DISTRICT OF SNELLVILLE, GWINNETT COUNTY, GA. PRESENTLY THE SITE IS EXISTING 2-LANE AND 3-LANE ROADWAYS. THE SITE INCLUDES WISTERIA DRIVE ON THE NORTH, NORTH ROAD ON THE WEST, CLOWER DRIVE ON THE EAST AND OAK ROAD ON THE SOUTH.

FLOOD ZONE STATEMENT
THE PROJECT LIES WITHIN FLOOD ZONE "X" ACCORDING TO FLOOD INSURANCE RATE MAP #13135C0129F DATED SEPTEMBER 29, 2006.

EXISTING EROSION CONTROL PROBLEMS
EROSION CONTROL PROBLEMS EXIST ON SITE.

SITE AREA = 5.62 ACRES
DISTURBED AREA = 3.51 ACRES
AREA TO BE PAVED = 114,999 SF
AREA TO BE GRASSED = 37,897 SF
AREA TO BE ROOFED = 0 SF

(48) **SOIL TYPES**
THE NRCS SOIL TYPES ARE AS FOLLOWS:
AmC2 – APPLING SANDY LOAM, 6–10% SLOPES, MODERATELY ERODED; HSG: B
ApB – APPLING–HARD LABOR COMPLEX, 2–6% SLOPES; HSG: B
PtB2 – PACOLET SANDY LOAM, 2–6% SLOPES, MODERATELY ERODED; HSG: B
ToA – TOCCOA FINE SANDY LOAM, 0–4% SLOPES, FREQUENTLY FLOODED; HSG: A

SOIL DISTURBING ACTIVITIES DESCRIPTION
INSTALLING A STABILIZED CONSTRUCTION EXIT, PERIMETER AND OTHER EROSION AND SEDIMENT CONTROLS, CLEARING AND GRUBBING, GRADING AND EXCAVATION FOR THE STORM SEWER, UTILITIES, CONSTRUCTION OF DRIVEWAYS, SIDEWALKS AND PARKING AREAS. PREPARATION FOR FINAL PLANTING AND SEEDING AND COMPLETION OF ON–SITE STABILIZATION.

(47) **RUNOFF COEFFICIENT**
THE PRE DEVELOPMENT COEFFICIENT OF RUNOFF FOR THE SITE WAS CN=85. THE PEAK PRE DEVELOPMENT RUNOFF RATE FOR THE 25 YEAR DESIGN EVENT IS 35.6 CFS.

THE FINAL COEFFICIENT OF RUNOFF FOR THE SITE WILL BE CN=86. THE PEAK POST DEVELOPMENT DISCHARGE FOR THE 25 YEAR DESIGN EVENT IS 11.99 CFS. THE PEAK DISCHARGE FROM THE PROJECT INTO THE OFFSITE DETENTION POND IS 36.3 CFS.

INVENTORY FOR POLLUTION PREVENTION PLAN
THE FOLLOWING MATERIALS ARE EXPECTED ONSITE DURING CONSTRUCTION: CONCRETE PRODUCTS, ASPHALT, PETROLEUM BASED FUELS AND LUBRICANTS FOR EQUIPMENT, TAR, METAL BUILDING MATERIALS, LUMBER, SHEETROCK, FLOOR COVERINGS, ELECTRICAL WIRE AND FIXTURES, PAINTS/STAINS/FINISHING TREATMENTS, CLEANING SOLVENTS, FERTILIZERS, HERBICIDES, CRUSHED STONE, PLASTIC AND METAL PIPES.

PRODUCT SPECIFIC PRACTICES
PETROLEUM BASED PRODUCTS – CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL BE COLLECTED IN A SUITABLE CONTAINER AND DISPOSED AS REQUIRED BY LOCAL AND STATE REGULATIONS. PAINTS/ENISHES/SOLVENTS – ALL PRODUCT WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS AND NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS. CONCRETE TRUCK WASHING – NO CONCRETE TRUCKS WILL BE ALLOWED TO BE WASHED OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE. FERTILIZER/HERBICIDES – THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURERS SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS. BUILDING MATERIALS – NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

(29) **SPILL CLEANUP AND CONTROL PRACTICES**
LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO ON-SITE PERSONNEL. SPILL CLEANUP KITS APPROPRIATE FOR THE MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: ABSORBENTS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS. SPILL PREVENTION PROCEDURES AND PRACTICES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.

THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORM WATER DISCHARGE(S) FROM THIS FACILITY SHALL BE PROHIBITED. THE GENERAL PERMIT GAR100003 DOES NOT RELIEVE THE PERMITTEE OF THE REPORTING REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. 12–14–2, ET SEQ.), 40 CFR PART 110, AND 40 CFR PART 302. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTABLE QUANTITY DURING THE TERM OF THE PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THE PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
(4). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE BUT NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. THE PRIMARY PERMITTEE MUST AMEND THE PLAN IN ACCORDANCE WITH PART IV.D.4.B.(5). WHEN A SECONDARY PERMITTEE NOTIFIES THE PRIMARY PERMITTEE OF ANY PLAN DEFICIENCIES.
(5). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(4) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON–COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON–COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND THE PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THE PERMIT.

(34) **SAMPLING REQUIREMENTS**
GENERAL REQUIREMENTS
(1). A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (HEREINDED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE COMMON DEVELOPMENT; (A). THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND–DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;
(2). THE ANALYTICAL METHOD USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;
(3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR OTHERWISE SIMILAR RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM DISTURBED AREAS. THE LOCATION AND SCHEDULING OF BMPS ARE SHOWN ON SHEETS ES–1,2,3,&4. FACTORS FOR THE SELECTION OF BMPS ARE SHOWN ON DETAIL SHEETS OF THE CONSTRUCTION DRAWINGS.NTU VALUES BASED ON A SITE AREA OF 10.06 AC AND A SURFACE WATER DRAINAGE AREA OF 1.0 SM THE ALLOWABLE NTU VALUES OF THE SAMPLING IS 50 FOR THIS SITE.

(26) **STORM WATER MANAGEMENT**
(26) THERE ARE NO TEMPORARY SEDIMENT BASINS OR TRAPS PROPOSED FOR THIS PROJECT. THE DISTURBED AREAS ARE LINEAR IN NATURE AND WILL BE CONSTRUCTED IN PHASES TO MINIMIZE THE AMOUNT OF LAND DISTURBANCE AT ANY ONE TIME. INLET SEDIMENT TRAPS AND SILT FENCING WILL BE UTILIZED THROUGHOUT CONSTRUCTION TO MINIMIZE THE RELEASE OF SEDIMENT INTO THE RECEIVING WATERS. A PORTION OF THE PROPOSED ROADWAY IMPROVEMENT PROJECT WILL DRAIN INTO THE CITY'S MASTER DETENTION POND NORTH OF WISTERIA DRIVE FOR ADDITIONAL WATER QUALITY TREATMENT.

(28) **WASTE DISPOSAL**
NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS.

WASTE MATERIALS:
ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

(28) **HAZARDOUS WASTES**
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER OF THE MATERIAL. ALL SITE PERSONNEL WILL BE INSTRUCTED IN THESE PROCEDURES AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

SANITARY WASTES
ALL SANITARY WASTES WILL BE COLLECTED FROM THE PORTABLE UNITS AND TEMPORARY SEPTIC SYSTEMS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY LOCAL OR STATE REGULATIONS.

OFFSITE VEHICLE TRACKING
A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. SEE SHEET ES–4 FOR CONSTRUCTION EXIT LOCATION(S). THE PAVED STREET ADJACENT THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

TIMING OF CONTROLS
AS INDICATED ON THE ANTICIPATED ACTIVITY SCHEDULE ON SHEETS ES–4 SEDIMENT CONTROLS AT THE PERIMETER AND THE CONSTRUCTION EXIT(S) WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY PORTION OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND/OR MULCH WITHIN 14 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, ALL ACCUMULATED SEDIMENT WILL BE REMOVED AND DISPOSED OF PROPERLY AND ALL PERIMETER SEDIMENT CONTROLS WILL BE REMOVED.

(14) "THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION."

DEVELOPER/OWNER:
CITY OF SNELLVILLE
2342 OAK ROAD
SNELLVILLE, GA 30078
BUTCH SANDERS, CITY MANAGER /770-985-3516

SITE OPERATOR/GENERAL CONTRACTOR:

_____

SUPERINTENDENT:

_____

GEORGIA811
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EROSION, SEDIMENTATION, AND POLLUTION CONTROL NARRATIVE

MAINTENANCE AND INSPECTION OF EROSION AND SEDIMENT CONTROLS MAINTENANCE
PRACTICES DESCRIBED IN THIS PLAN (SEE SHEETS ES–1&2 AND DETAIL SHEETS) AS WELL AS PRACTICES DESCRIBED IN MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA WILL BE FOLLOWED IN A TIMELY MANNER SUCH THAT VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE PLAN ARE IN GOOD AND EFFECTIVE OPERATING CONDITIONS.

(31) **INSPECTIONS**
PRIMARY PERMITTEE
(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT:
(A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF–SITE SEDIMENT TRACKING; AND (C) MEASURE RAINFALL ONCE EACH 24–HOUR PERIOD AT THE SITE. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
(2). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OF RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00PM ON ANY FRIDAY OR ON ANY NON–WORKING SATURDAY, NON–WORKING SUNDAY OR ANY NON–WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THE PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
(4). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE BUT NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH IN

EROSION CONTROL NOTES

1. SILT FENCE MUST MEET THE REQUIREMENTS OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA.
2. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED BY CONTRACTOR WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS TO ENSURE COMPLIANCE WITH REGULATIONS. ANY MEASURES IMPLEMENTED REQUIRING HYDRAULIC CALCULATIONS ARE TO BE COORDINATED WITH AND CERTIFIED BY THE DESIGN PROFESSIONAL PRIOR TO COMMENCEMENT.
3. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE, AT A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE CITY OF SNELLVILLE EROSION AND SEDIMENTATION ORDINANCE AND THE SEDIMENT CONTROL REGULATIONS, AND GEORGIA MANUAL ON EROSION AND SEDIMENT CONTROL.
4. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE. ALL OTHER DRIVEWAYS WITHOUT A CONSTRUCTION EXIT SHALL BE BARRICADED TO PROHIBIT INGRESS AND EGRESS TRAFFIC.
5. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE FROM THE SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
6. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL DEVICES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
7. EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
8. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 1/2 OF THE ORIGINAL HEIGHT OF THE SILT FENCE UTILIZED FOR EROSION CONTROL. IN THE SEDIMENTATION PONDS, SILT SHALL BE REMOVED WHEN THE CLEANOUT VOLUME (22 CY/AC) IS REACHED. SEDIMENT STORAGE INDICATORS MUST BE INSTALLED IN EACH POND.
9. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO LOCAL AND STATE STANDARDS.
10. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
11. SILT BARRIERS ARE TO BE PLACED AT DOWNSTREAM TOE OF ALL FILL SLOPES.
12. ALL SLOPES AND AREAS DISTURBED DURING CONSTRUCTION SHALL BE GRADED SMOOTH AND 4" OF AMMENDED TOPSOIL APPLIED, THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL A HEALTHY STAND OF PERMANENT VEGETATION HAS BEEN ESTABLISHED FOR ALL DISTURBED AREAS.
13. ABSOLUTELY NO SEDIMENT SHALL BE PERMITTED TO LEAVE THE SITE DURING CONSTRUCTION. IF HEAVY RAINS AND UNUSUAL SITE CONDITIONS RESULT IN THE POLLUTION OF ROADWAYS OR ADJACENT PARCELS THEN THE GRADING CONTRACTOR SHALL CLEAN THE DISTURBED AREAS IMMEDIATELY AND RESTORE THE AREAS TO THE ORIGINAL CONDITION.
14. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE GOVERNING OFFICIALS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE INTIMATE WITH THE LOCAL EROSION CONTROL LAWS AND TO REFLECT THIS KNOWLEDGE IN HIS/HER ACTIONS AND QUOTATIONS.
15. REFERENCE THE CONSTRUCTION SEQUENCE FOR THE RELATIONSHIP BETWEEN THE INSTALLATION OF EROSION CONTROL FEATURES AND GENERAL CONSTRUCTION.
16. MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.
17. ALL GRADED SLOPES STEEPER THAN 3:1 OR OVER 5' IN HEIGHT REGARDLESS OF SLOPE MUST BE HYDRA SEEDED AND COVERED WITH EXCELSOR CURLEX BLANKETS OR APPROVED EQUAL FIBER MATTING. IF NOT HYDRA SEEDED, APPROVED MATTING THAT HAS BEEN IMPREGNATED WITH SEED AND FERTILIZER MUST BE USED. ALL SLOPES MUST BE PROPERLY PROTECTED UNTIL A PERMANENT VEGETATIVE STAND IS ESTABLISHED.
18. ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED AS SOON AS FINAL GRADE IS ACHIEVED. THESE DISTURBED AREAS MUST BE PROTECTED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
19. CONTRACTOR MUST HAUL OFF ALL SOLID WASTE TO AN APPROVED LAND FILL. SOLID WASTE BURNING ON SITE IS PROHIBITED.
20. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
21. NO WASTE MATERIALS SHALL BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS (19) AUTHORIZED BY A SECTION 404 PERMIT.
22. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST (16) ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
23. THERE ARE NO STATE WATERS LOCATED ON NOR WITHIN 200 FT. OF THE SITE.
24. THERE ARE NO WETLANDS LOCATED ON THIS SITE.
25. OMITTED.
26. CONCRETE WASH OUT AREA IS FOR CONCRETE WASH DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
27. PER THE REQUIREMENTS OF THE STATE OF GEORGIA NO CONCRETE TRUCK DRUMS CAN BE WASHED OUT ON A CONSTRUCTION SITE. ONLY CHUTES CAN BE WASHED OFF ONSITE.
28. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT AFFECT ON BMP'S WITH (17) A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
29. THE APPLICABLE PORTIONS EROSION SEDIMENTATION AND POLLUTION CONTROL PLAN IS TO BE PROVIDED TO EACH SECONDARY PERMITTEE PRIOR TO THE SECONDARY PERMITTEE CONDUCTING ANY CONSTRUCTION ACTIVITIES AND THAT EACH SECONDARY SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR SITE.
30. BMP'S FOR REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS. THESE CAN BE REFERENCE ON SHEET ES-3.
31. THE SOIL EROSION AND SEDIMENT CONTROL ORDINANCE REQUIRES THAT A 25 FOOT BUFFER ADJACENT TO ALL STATE WATERS BE MAINTAINED (ARTICLE 4 SECTION 4.3 PARAGRAPH 15). AN EXCEPTION IS GRANTED TO HOMEOWNERS WHO PERFORM MINOR LAND DISTURBING ACTIVITIES SUCH AS HOME LANDSCAPING, HOME GARDENS, REPAIRS AND MAINTENANCE WORK (ARTICLE 3, SECTION 3.1, PARAGRAPH 3).

NOTE:

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL MONITORING OF STORM WATER RUNOFF AS DICTATED BY THE NEW GA LAW "CLEAN WATER ACT" GENERAL PERMIT No. GAR100003 GOVERNING EROSION CONTROL. ALL COSTS ARE TO BE INCLUDED IN BASE BID. CONTRACTOR IS RESPONSIBLE FOR ALL MONITORING FROM THE TIME LAND DISTURBING ACTIVITIES BEGIN UNTIL THE TIME "NOTICE OF TERMINATION" IS FILED. CONTRACTOR TO REFER TO EROSION CONTROL PLANS, SHEETS ES-1,2,3, AND GENERAL PERMIT No. GAR100003 FOR ADDITIONAL NOTES AND INFORMATION.

DESIGN PROFESSIONAL CERTIFICATIONS

(13) "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR100001."

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

TODD SELDOMRIDGE
PE 34502
GSWCC CERTIFICATION NO. 3039

06/23/2021
DATE

(30)

ANTICIPATED ACTIVITY SCHEDULE

	ACTIVITY	MONTH 1	2	3	4	5	6	7	8	9
1	INSTALL SEDIMENT CONTROLS	DLT AND/OR TREE PROTECTION FENCE @ PERIMETER OF SITE AND STORMWATER BASIN								
2	CLEARING AND GRUBBING									
3	DEMOLITION	(DISPOSAL OF EXISTING STRUCTURES)								
4	MASS GRADING									
5	STORM DRAINAGE INSTALLATION									
6	INSTALL SEDIMENT TRAPS @ SITES									
7	UTILITY INSTALLATION									
8	PAVING									
9	GRASS (TEMP) & (PERM)									
10	FINAL LANDSCAPING									
11	MAINTAIN EROSION CONTROL									
12	CLEAN UP									

NOTE: THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

REPRESENTS A 30-DAY PERIOD

PRIMARY PERMITTEE CERTIFICATION

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

(06) PRINT NAME (AUTHORIZED REPRESENTATIVE) GSWCC CERTIFICATION NO.

DATE

SIGNATURE

ADDRESS

PHONE

FAX

NOTE: GENERAL CONTRACTOR IS TO SIGN AND DATE PERMITTEE CERTIFICATION(S) AND KEEP ON-SITE AT ALL TIMES.

GEORGIA REGISTERED No. PE034502 PROFESSIONAL 6/23/21 ENGINEER TODD L. SELDOMRIDGE

GSWCC# 3039

(02)

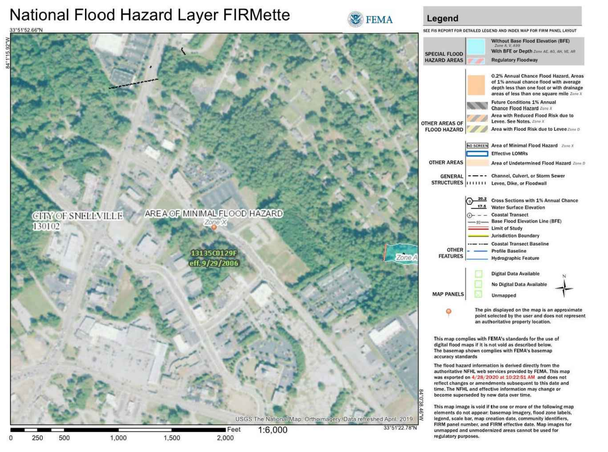
Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
LAND LOT 26 & 39, 5TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 038, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

(08)

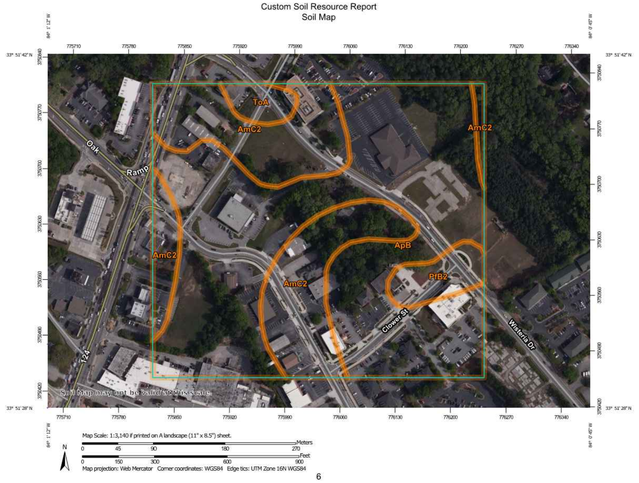
REVISIONS	BY

DRAWN BY: DMN
CHECKED BY: TLS
DATE: 06/23/2021
SCALE: NO SCALE
JOB No.: 20-LD-054
SHEET NUMBER: ES-5

CIA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com



FEMA FLOOD MAP
NOT TO SCALE



(46) SOILS MAP
NOT TO SCALE

Waters Supporting Warm Water Fisheries

Surface Water Drainage Area, square miles

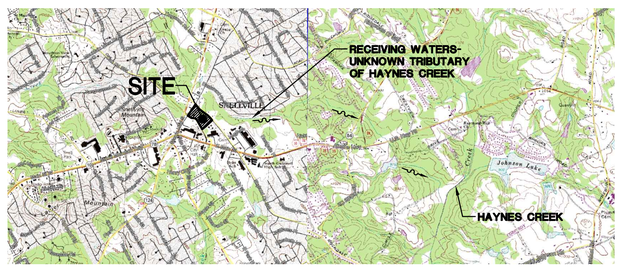
Site Size, acres	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	75	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.01 +	50	50	50	50	50	100	200	100

To use these tables, select the size (acres) of the construction site. Then, select the surface water drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use in Part III.D.4.

Example 1: For a site size of 12.5 acres and a "trout stream" drainage area of 37.5 square miles, the NTU value to use in Part III.D.4. is 75 NTU.

Example 2: For a site size of 51.7 acres and "waters supporting warm water fisheries" drainage area of 72 square miles, the NTU value to use in Part III.D.4. is 100 NTU.

(88) APPENDIX B - NTU VALUES



(84) U.S.G.S. QUADRANGLE MAP

(XX) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST

DEVELOPER/OWNER:
CITY OF SNELLVILLE
2342 OAK ROAD
SNELLVILLE, GA 30078
BUTCH SANDERS, CITY MANAGER /770-985-3516

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

GEORGIA 811 Utilities Protection Center, Inc
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EROSION SEDIMENTATION, AND POLLUTION CONTROL PLAN NOTES

USER: 6701 - Jun 23, 2021 - 3:05pm
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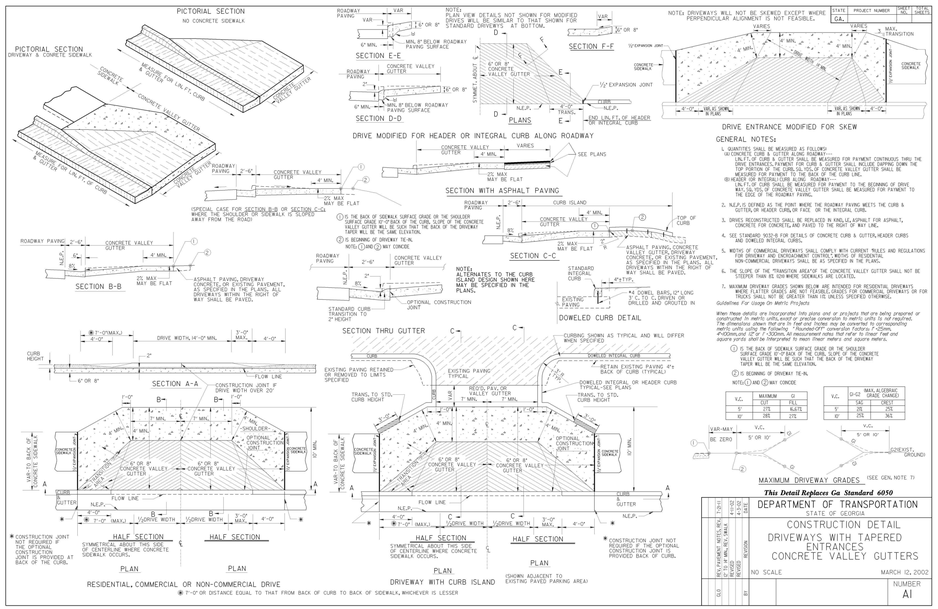
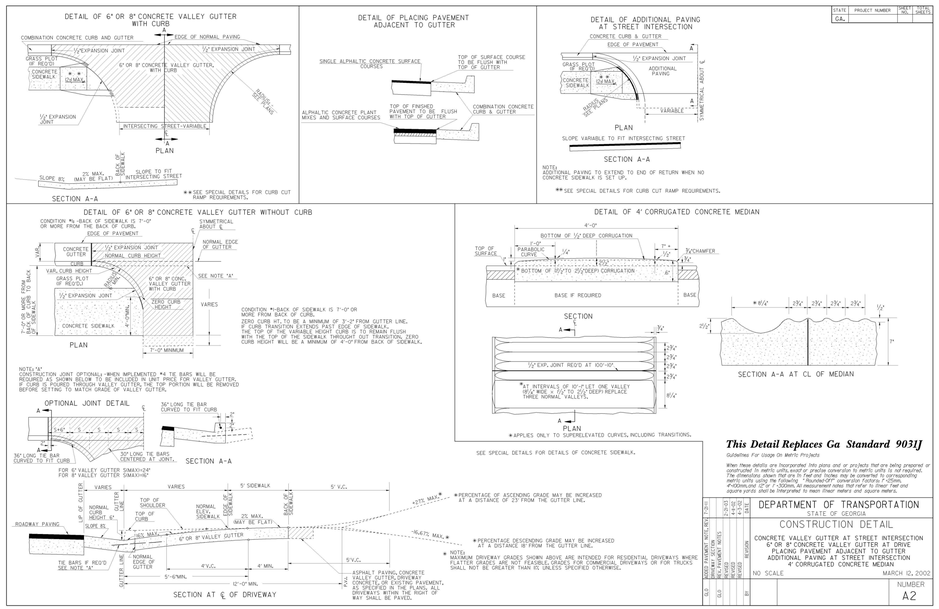
20-LD-054 ES-4-5 NOTES_D (GA).DWG





SITE PLAN DETAILS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED No. PE034502 PROFESSIONAL 6/23/21 ENGINEER TODD L. SELDOMRIDGE
GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
LAND LOT 28 & 39, 6TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 038, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY DMN
CHECKED BY TLS
DATE: 06/23/2021
SCALE: NO SCALE
JOB No. 20-LD-054
SHEET NUMBER
D-1A

20-LD-054 DETAILS_D.DWG

USER 6701 – Jun 23, 2021 – 3:07pm
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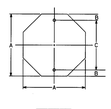
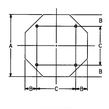
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

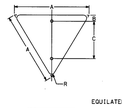


A	B	C
24	3	18
30	3	24
36	3	30

OCTAGON

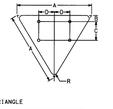


A	B	C
48	9	30

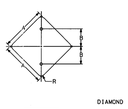


A	B	C	R
30	3	18	1 1/2
36	3	21	2
48	3	27	3

EQUILATERAL TRIANGLE

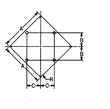


A	B	C	D	R
60	3	18	15	3



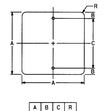
A	B	R
24	12	1 1/2
30	15	1 7/8
36	18	2 1/4

DIAMOND



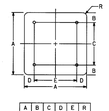
A	B	C	R
36	10	10	2 1/4
48	15	15	3
60	18	18	3 3/4

* FOR TWO POST ERECTION

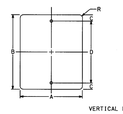


A	B	C	R
18	3	12	1 1/2
24	3	18	1 7/8
30	3	24	1 1/8

SQUARE

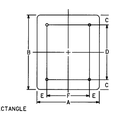


A	B	C	D	E	R
36	6	24	6	24	2 1/4
48	6	36	6	36	3

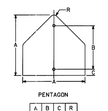


A	B	C	D	R
12	18	1 1/2	15	1 1/2
18	24	3	18	1 7/8
24	30	3	24	1 1/2
30	36	3	30	1 7/8

VERTICAL RECTANGLE

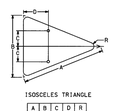


A	B	C	D	E	F	R
36	48	6	36	6	24	2 1/4
48	60	6	48	9	30	3



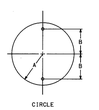
A	B	C	R
30	21	3	1 7/8
36	24	3	2 1/4

PENTAGON



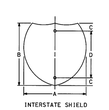
A	B	C	D	R
42	30	1 1/2	12	1 7/8
48	36	9	15	2 1/4

ISOSCELES TRIANGLE



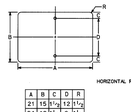
A	B
15	12
18	15

CIRCLE



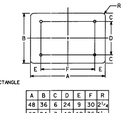
A	B	C	D
24	24	3	18
30	24	3	18
36	36	6	24
45	36	6	24

INTERSTATE SHIELD



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 1/2

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

T-1

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

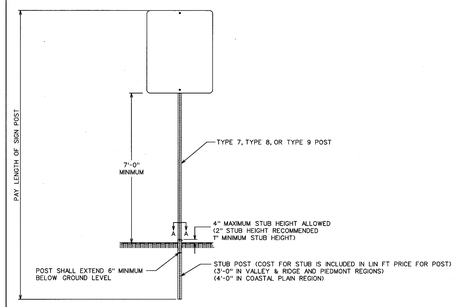
CROSSWALK DETAIL

GENERAL NOTES:

1. SPACING BETWEEN 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.

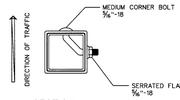
DATE	REVISIONS	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
6-15-00	ADDED "EXCEPT ON RAMPS ON RURAL INTERSTATE"	CONSTRUCTION DETAILS PAVEMENT MARKING PLACEMENT NON-LIMITED ACCESS ROADWAY
		NO SCALE JANUARY 2000
		DESIGNED ____ DRAWN ____ TRACED ____ CHECKED ____ NUMBER T-11A

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



FRONT VIEW

POST	STUB SIZE
TYPE 7	2 1/2" x 2 1/2"
TYPE 8	2 3/4" x 2 3/4"
TYPE 9	2 1/2" x 2 1/2"



SECTION A-A

SIGN POST SELECTION CHART

70 MPH Wind Load Chart + 15% Gust Factor

Sign Centroid	SLIP BASE NOT REQUIRED: TYPE 7 2" I.H.sp. 1 Post	TYPE 7 2" I.H.sp. 2 Post	TYPE 8 2½" I.D.sp. 1 Post	GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED: TYPE 8 2½" I.D.sp. 2 Post	TYPE 8 2½" I.D.sp. 3 Post	TYPE 8 w/TYPE 9 insert 2½" I.D.sp. w/2.25-#/ft sp. 1 Post	TYPE 8 w/TYPE 9 insert 2½" I.D.sp. w/2.25-#/ft sp. 2 Post	TYPE 8 w/TYPE 9 insert 2½" I.D.sp. w/2.25-#/ft sp. 3 Post
	SQUARE FOOTAGE					SQUARE FOOTAGE		
6'	13.50	27.00	13.25	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

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DATE	REVISIONS	GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC SAFETY & DESIGN
6-15-00	ADDED "EXCEPT ON RAMPS ON RURAL INTERSTATE"	DETAILS OF PAVEMENT MARKINGS-ARROWS
		NO SCALE JANUARY 2000

T-12B

SITE PLAN DETAILS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED No. PE034502 PROFESSIONAL ENGINEER 6/23/21 TODD L. SELDOMRIDGE

GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD
LAND LOT 26 & 39, 5TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 038, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

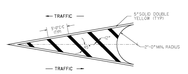
DRAWN BY DMN
CHECKED BY TLS
DATE: 06/23/2021
SCALE: NO SCALE
JOB No. 20-LD-054
SHEET NUMBER
D-1B

USER 6701 - Jun 23, 2021 - 3:08pm
Z:\All Project Data\Projects\2020\20-LD-054 Snellville (The Grove-City Streets) GA\LD\Production\Production Drawings\20-LD-054 Details_D.dwg

20-LD-054 DETAILS_D.DWG

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS

DETAIL "A"(YELLOW)



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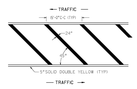
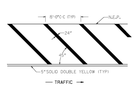


DETAIL "C"(YELLOW)



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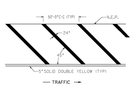
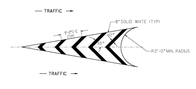


DETAIL "A"(WHITE)



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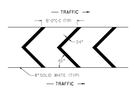

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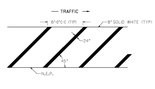
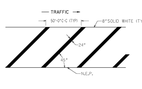


DETAIL "D"(WHITE)



GENERAL NOTES:
1. FOR YELLOW STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDE THE AREA WITHIN THE BORDERS AND THE 5" SOLID DOUBLE YELLOW BORDER.
2. FOR WHITE STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDES THE AREA WITHIN THE BORDERS AS WELL AS THE 8" SOLID WHITE BORDER.

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

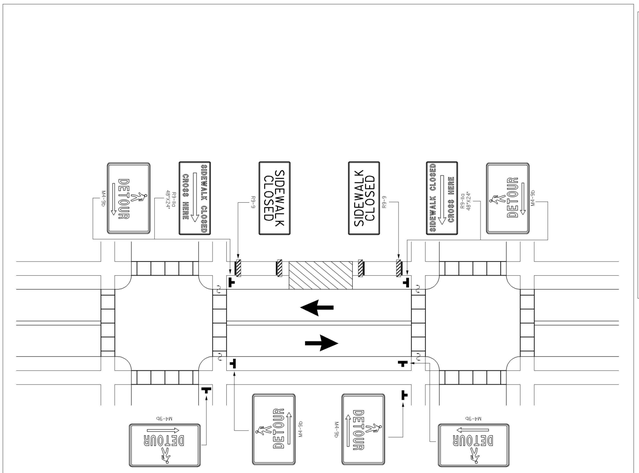
- NO SCALE -

DATE	REVISIONS
6/25/04	Modified general note 1.
1/18/05	CHANGED BORDER
11/01/08	Modified general note 1.

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TRAFFIC OPERATIONS
SIGNING AND MARKING PLANS
DETAIL OF PAVEMENT MARKING HATCHING
JANUARY 2000
T -14

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

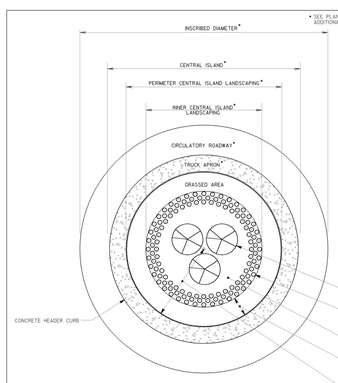
GENERAL NOTES:
1. CLOSURES OF EXISTING PEDESTRIAN FACILITIES SHALL HAVE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
2. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS, THE MUTCD, THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 900 DETECTABLE EDGING AND DETECTABLE BARRIERS SHALL BE IN COMPLIANCE WITH THE MUTCD AND ADA REGULATIONS.
3. SIGNS AND OTHER DEVICES SHALL BE PLACED SUCH THAT THEY DO NOT NARROW OR RESTRICT ANY PEDESTRIAN PASSAGE TO LESS THAN 48 INCHES (4 FT) IN WIDTH. SIGNS AND OTHER DEVICES MOUNTED LOWER THAN SEVEN (7) FEET ABOVE THE TEMPORARY PEDESTRIAN WALKWAY SHALL NOT PROJECT MORE THAN FOUR (4) INCHES INTO THE ACCESSIBLE PEDESTRIAN FACILITIES.
4. NO PAYMENT WILL BE MADE FOR TEMPORARY WALKWAYS WITH DETECTABLE EDGING WHERE EXISTING PAVEMENTS OR EXISTING EDGING (THAT MEETS THE REQUIREMENTS OF MUTCD) ARE UTILIZED FOR THE TEMPORARY WALKWAY. PAYMENT FOR TEMPORARY DETECTABLE EDGING, INCLUDING APPROVED BARRIERS AND CHANNELIZING DEVICES, THAT ARE INSTALLED ON EXISTING PAVEMENTS SHALL BE INCLUDED IN TRAFFIC CONTROL, LUMP SUM.
5. REGARDLESS OF THE MATERIALS USED, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY WALKWAYS (WITH DETECTABLE EDGING) OF SUFFICIENT THICKNESS AND DURABILITY TO WITHSTAND THE INTENDED USE FOR THE DURATION OF THE CONSTRUCTION PROJECT (SEE SECTION 150 FOR MINIMUM DESIGN PARAMETERS). THE USE OF COMPACTED SOILS, SANDS, CRUSHED STONE, OR ASPHALTIC PAVEMENT MILLINGS SHALL NOT BE USED AS A SURFACE COURSE FOR TEMPORARY PEDESTRIAN WALKWAYS.
6. A 60-INCH MINIMUM WIDTH PEDESTRIAN FACILITY SHOULD BE MAINTAINED WHEN POSSIBLE. WHEN A 60-INCH MINIMUM WIDTH CANNOT BE ACHIEVED, A MINIMUM WIDTH OF 48 INCHES SHALL BE PROVIDED WITH PASSING ZONES (60 INCHES BY 60 INCHES) AT LEAST EVERY 200 FEET.
7. TEMPORARY AUDIBLE INFORMATION DEVICES SHOULD BE USED WHERE MOBILOCK CLOSINGS AND CHANGED CROSSWALK AREAS CAUSE INADEQUATE COMMUNICATION TO BE PROVIDED TO PEDESTRIANS WHO HAVE VISUAL DISABILITIES.
8. WHEN CURB CUT RAMP IS NOT PRESENT, TEMPORARY OR PERMANENT CURB CUT RAMP WILL BE PROVIDED BY CONTRACTOR.



STANDARD LEGEND

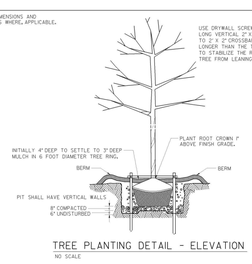
DETECTABLE BARRIER	CURB CUT RAMP WITH DETECTABLE SURFACE WARNING
DETECTABLE EDGING	SIGN
WORK SITE	DIRECTION OF TRAFFIC LANE(S)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAIL
TRAFFIC CONTROL
PEDESTRIAN ACCESSIBILITY
AROUND WORKZONE - SIDEWALK DETOUR
NO SCALE
SEPTEMBER 2008
T-21



* SEE PLANS FOR DIMENSIONS AND ADDITIONAL DETAILS WHERE APPLICABLE.

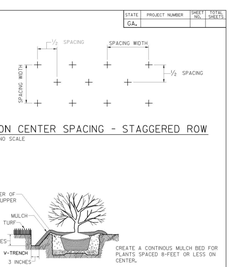
PLANTING LAYOUT
NO SCALE



USE DRYWALL SCREWS TO ATTACH 4-FOOT LONG VERTICAL 2" X 2" HARDWOOD STAKES TO 2' X 2" CROSSBARS AT LEAST 6 INCHES LONGER THAN THE TREE ROOT BALL DIAMETER TO STABILIZE THE ROOT BALL AND PREVENT THE TREE FROM LEANING.

TREE PLANTING DETAIL - ELEVATION
NO SCALE

TREE PLANTING DETAIL - PLAN
NO SCALE



ON CENTER SPACING - STAGGERED ROW
NO SCALE

VINE AND SHRUB PLANTING DETAIL
NO SCALE

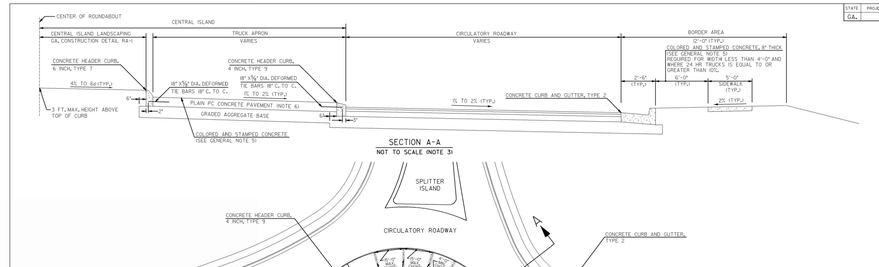
GENERAL NOTES:
1. SPECIFICATIONS: GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. SEE SPECIAL PROVISIONS 700 AND 702 FOR PLANTING REQUIREMENTS.
3. SEE PLAN SHEETS FOR THE WIDTH OF THE PERIMETER CENTRAL ISLAND LANDSCAPING.
4. THE DESIGNER MAY SPECIFY ALTERNATE PLANT MATERIALS WITH PRIOR REVIEW AND APPROVAL BY THE OFFICE OF MAINTENANCE. IF ALTERNATE MATERIALS ARE SPECIFIED, THEY WILL BE DESCRIBED ELSEWHERE IN THE PLANS.
5. THIS DETAIL CAN BE INCORPORATED INTO PROJECT PLANS AFTER THE DEPARTMENT HAS ENTERED A SEPARATE RIGHT-OF-WAY MOWING AND MAINTENANCE AGREEMENT.

BASIS OF PAYMENT:

PAY ITEM NUMBER	UNIT	PAY ITEM DESCRIPTION	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
150-1000	LS	TRAFFIC CONTROL			-	-
700-9300	SY	SOD	CYNODON DACTYLON 'TIFWAY 419' SOD	HYBRID BERMUDA GRASS	-	-
702-0310	EA	CRATAEGUS VIRIDIS	CRATAEGUS VIRIDIS 'WINTER KING'	WINTER KING HAWTHORN	3 INCH CALIPER	SPACING AS SHOWN
702-3000	LB	SHRUB PLANTING	ILEX VOMITORIA NANA	DWARF YAUPON HOLLY	3 GAL	SPACING AS SHOWN
702-9025	LB	SPRING APPLICATION FERTILIZER	SPRING FERTILIZER	FERTILIZER	-	-
702-9025	SY	LANDSCAPE MULCH		PINE STRAW MULCH	-	-

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAIL
ROUNDABOUT LANDSCAPING DETAILS
NO SCALE
SEPTEMBER 2011
NUMBER RA-1

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



SECTION A-A
NOT TO SCALE (NOTE 3)

GENERAL NOTES:
1. GEORGIA STANDARD SPECIFICATIONS CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. USE THIS STANDARD FOR SINGLE-LANE AND MULTI-LANE ROUNDABOUTS WHERE CIRCULATORY ROADWAY PAVING IS ASPHALT CONCRETE.
3. REFER TO PLANS FOR SECTION A-A SLOPES AND DIMENSIONS SHOWN AS VARIES OR TYPICAL, AND FOR CIRCULATORY ROADWAY PAVEMENT SCHEDULE.
4. SEE GA. STANDARD 9032-B FOR CONCRETE CURB AND GUTTER, HEADER CURBS, AND SPLITTER ISLANDS (CONCRETE MEDIANS). SEE GA. CONSTRUCTION DETAILS R-5 AND A-4 FOR WHEELCHAIR RAMPS AND CROSSWALK DETAILS.
5. STAMPED CONCRETE SHALL BE RED WITH COBBLE PATTERN UNLESS OTHERWISE SPECIFIED ON PLANS.
6. CONCRETE TRUCK APRON SHALL BE 10" THICK UNLESS OTHERWISE SPECIFIED ON PLANS.
7. CONTRACTION JOINTS SHALL BE EQUALLY SPACED. THE OUTSIDE CHORD SHALL BE LESS THAN OR EQUAL TO 15'-0". THE INSIDE CHORD SHALL BE GREATER THAN OR EQUAL TO 4'-0". IF TRUCK APRON IS WIDER THAN 14', LONGITUDINAL SAWED JOINTS, SEALS AND TIE-BARS ARE REQUIRED. SEE GA. STANDARD 9246-H FOR ADDITIONAL PORTLAND CEMENT CONCRETE PAVING JOINT DETAILS.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAIL
ROUNDABOUT
TYPICAL SECTION
ASPHALTIC CONCRETE CIRCULATORY ROADWAY
NO SCALE
JANUARY 2012
NUMBER RA-2

SITE PLAN DETAILS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. PE034502 PROFESSIONAL ENGINEER 6/23/21 TODD L. SELDOMRIDGE
GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD,
LAND LOT 26 & 39, 5TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 038, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY: DMN
CHECKED BY: TLS
DATE: 06/23/2021
SCALE: NO SCALE
JOB No.: 20-LD-054
SHEET NUMBER
D-1C

20-LD-054 DETAILS_D.DWG

USER 6701 - Jun 23, 2021 - 3:08pm
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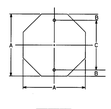
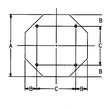
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

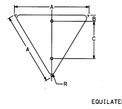


A	B	C
24	3	18
30	3	24
36	3	30

OCTAGON

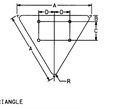


A	B	C
48	9	30

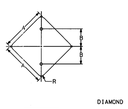


A	B	C	R
30	3	18	1 1/2
36	3	21	2
48	3	27	3

EQUILATERAL TRIANGLE

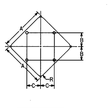


A	B	C	D	R
60	3	18	15	3



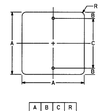
A	B	R
24	12	1 1/2
30	15	1 7/8
36	18	2 1/4

DIAMOND



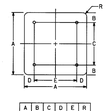
A	B	C	R
36	10	10	2 1/4
48	15	15	3
60	18	18	3 3/4

* FOR TWO POST ERECTION

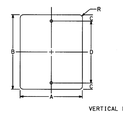


A	B	C	R
18	3	12	1 1/2
24	3	18	1 7/8
30	3	24	1 1/8

SQUARE

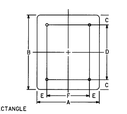


A	B	C	D	E	R
36	6	24	6	24	2 1/4
48	6	36	6	36	3

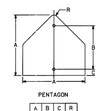


A	B	C	D	R
12	18	1 1/2	15	1 1/2
18	24	3	18	1 7/8
24	30	3	24	1 1/2
30	36	3	30	1 7/8

VERTICAL RECTANGLE

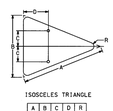


A	B	C	D	E	F	R
36	48	6	36	6	24	2 1/4
48	60	6	48	9	30	3



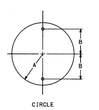
A	B	C	R
30	21	3	1 7/8
36	24	3	2 1/4

PENTAGON



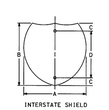
A	B	C	D	R
42	30	1 1/2	12	1 7/8
48	36	9	15	2 1/4

ISOSCELES TRIANGLE



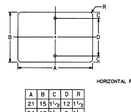
A	B
15	12
18	15

CIRCLE



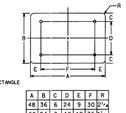
A	B	C	D
24	24	3	18
30	24	3	18
36	36	6	24
45	36	6	24

INTERSTATE SHIELD



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 1/2

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

T-1

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

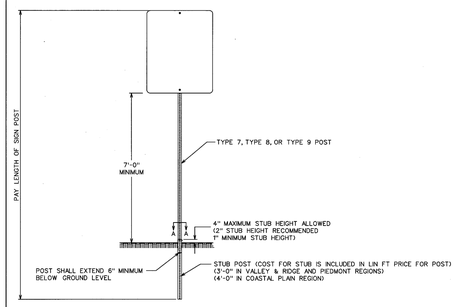
CROSSWALK DETAIL

GENERAL NOTES:

1. SPACING BETWEEN 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.

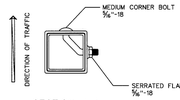
DATE	REVISIONS	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
6-15-00	ADDED "EXCEPT ON RAMPS ON RURAL INTERSTATE"	CONSTRUCTION DETAILS PAVEMENT MARKING PLACEMENT NON-LIMITED ACCESS ROADWAY
		NO SCALE JANUARY 2000
		DESIGNED ____ DRAWN ____ TRACED ____ CHECKED ____ NUMBER T-11A

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



FRONT VIEW

POST	STUB SIZE
TYPE 7	2 1/2" x 2 1/2"
TYPE 8	2 3/4" x 2 3/4"
TYPE 9	2 1/2" x 2 1/2"



SECTION A-A

SIGN POST SELECTION CHART

70 MPH Wind Load Chart + 15% Gust Factor

Sign Centroid	SLIP BASE NOT REQUIRED: TYPE 7 2" I.H.sp. 1 Post	TYPE 7 2" I.H.sp. 2 Post	TYPE 8 2½" I.D.sp. 1 Post	GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED: TYPE 8 2½" I.D.sp. 2 Post	TYPE 8 2½" I.D.sp. 3 Post	TYPE 8 w/TYPE 9 insert 2½" I.D.sp. w/2.25-#/ft sp. 1 Post	TYPE 8 w/TYPE 9 insert 2½" I.D.sp. w/2.25-#/ft sp. 2 Post	TYPE 8 w/TYPE 9 insert 2½" I.D.sp. w/2.25-#/ft sp. 3 Post
	SQUARE FOOTAGE					SQUARE FOOTAGE		
6'	13.50	27.00	13.25	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

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DATE	REVISIONS	GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC SAFETY & DESIGN
6-15-00	ADDED "EXCEPT ON RAMPS ON RURAL INTERSTATE"	DETAILS OF PAVEMENT MARKINGS-ARROWS
		NO SCALE JANUARY 2000

T-12B

SITE PLAN DETAILS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED No. PE034502 PROFESSIONAL ENGINEER 6/23/21 TODD L. SELDOMRIDGE

GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD
LAND LOT 26 & 39, 5TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 038, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY DMN
CHECKED BY TLS
DATE: 06/23/2021
SCALE: NO SCALE
JOB No. 20-LD-054
SHEET NUMBER
D-1B

USER 6701 - Jun 23, 2021 - 3:08pm
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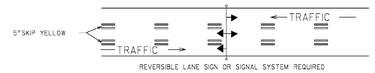
20-LD-054 DETAILS_D.DWG

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

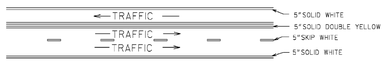


REVERSIBLE LANE SIGN OR SIGNAL SYSTEM REQUIRED

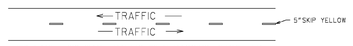
TWO-WAY TRAFFIC WITH A REVERSIBLE CENTER LANE



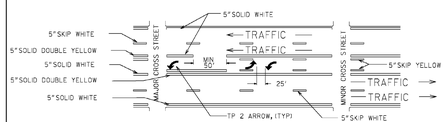
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE PERMITTED TO PASS



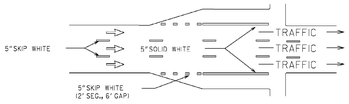
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE NOT PERMITTED TO PASS



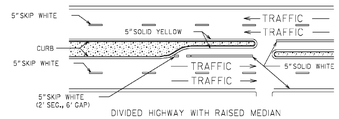
TWO-LANE, TWO-WAY TRAFFIC WITH PASSING PERMITTED



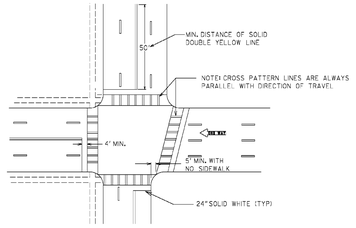
MULTI-LANE, TWO-WAY TRAFFIC WITH SINGLE LANE, TWO-WAY LEFT TURN CHANNELIZATION



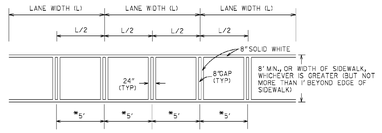
ONE-WAY TRAFFIC WITH ADDED TURN LANES



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 BETWEEN 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-IIB.

DATE	REVISION	BY
3-5-6	ADDED GENERAL NOTE 3	
	DESIGNED	
	DRAWN	
	TRACED	
	CHECKED	

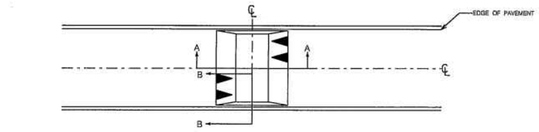
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

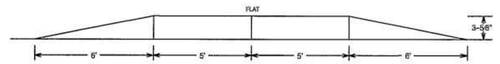
PAVEMENT MARKING PLACEMENT
NON-LIMITED ACCESS ROADWAY

NO SCALE — JANUARY 2000

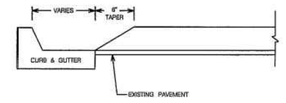
NUMBER T-IIA



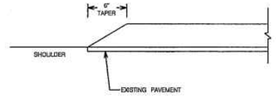
PLAN VIEW



SECTION A-A

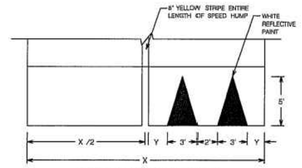


SECTION B-B (WITH CURB)

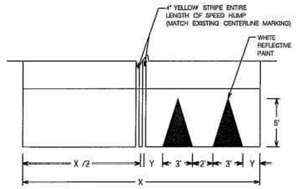


SECTION B-B (WITHOUT CURB)

NOTE: 1. DRIVEWAYS SHALL NOT BE LOCATED WITHIN 20' OF SPEED HUMPS.



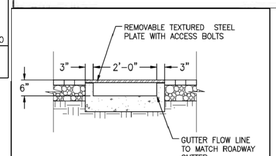
PAVEMENT MARKINGS DETAILS (1)
(FOR ROADS WITHOUT CENTERLINE)



PAVEMENT MARKINGS DETAILS (2)
(FOR ROADS WITH CENTERLINE)

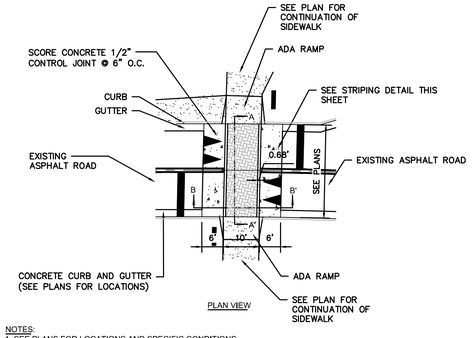
NOT TO SCALE

GWINNETT COUNTY TRAFFIC CALMING DESIGN GUIDE	APRIL 2006
SPEED HUMP INSTALLATION DETAILS	DRAWING NO. TC-10



2' WIDE CONCRETE FLUME WITH COVER

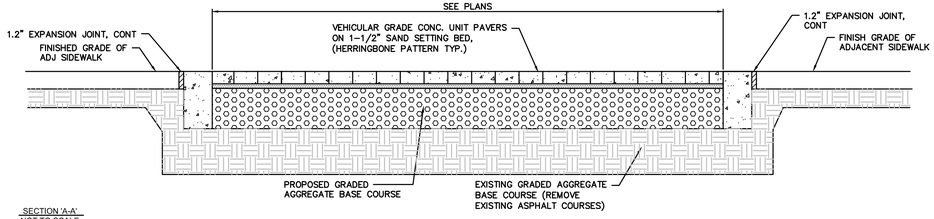
N.T.S.



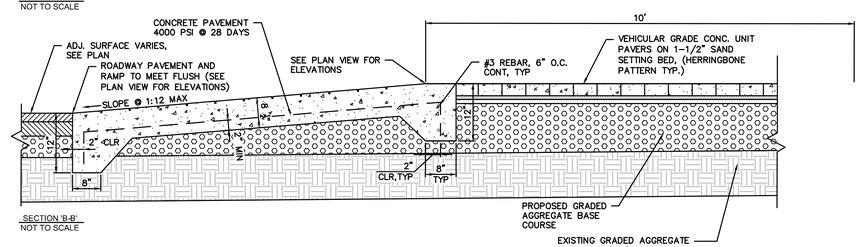
PLAN VIEW

NOTES:
1. SEE PLANS FOR LOCATIONS AND SPECIFIC CONDITIONS

RAISED PEDESTRIAN CROSSING
SCALE: N.T.S.



SECTION 'A-A'
NOT TO SCALE



SECTION 'B-B'
NOT TO SCALE

SITE PLAN DETAILS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED No. PE034502 PROFESSIONAL ENGINEER 6/23/21 TODD L. SELDOMRIDGE

GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
LAND LOT 28 & 39, 6TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 036, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY: DMN
CHECKED BY: TLS
DATE: 06/23/2021
SCALE: NO SCALE
JOB No.: 20-LD-054
SHEET NUMBER: D-1E

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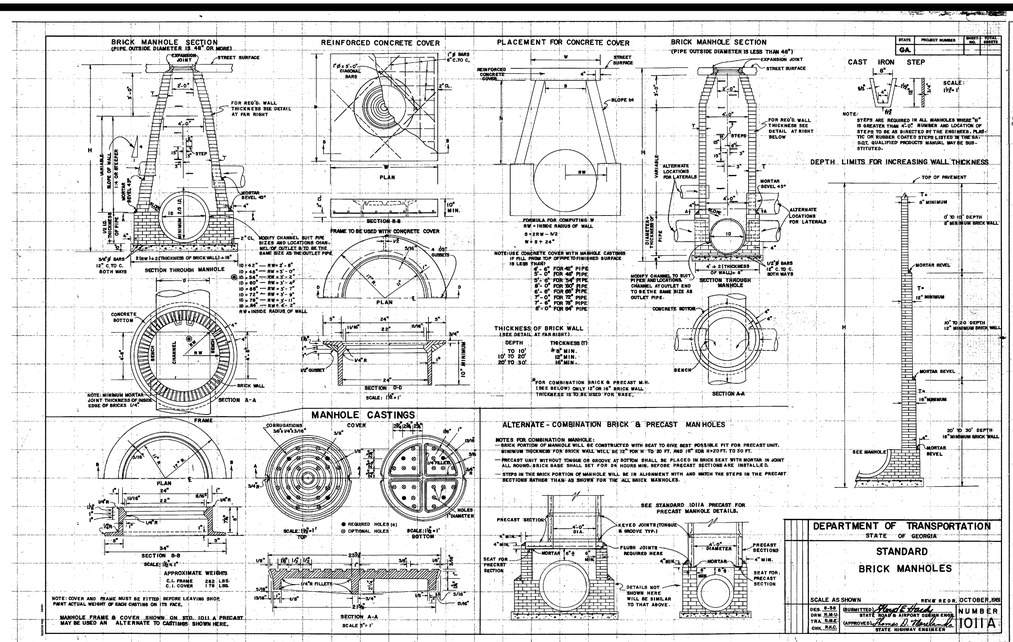
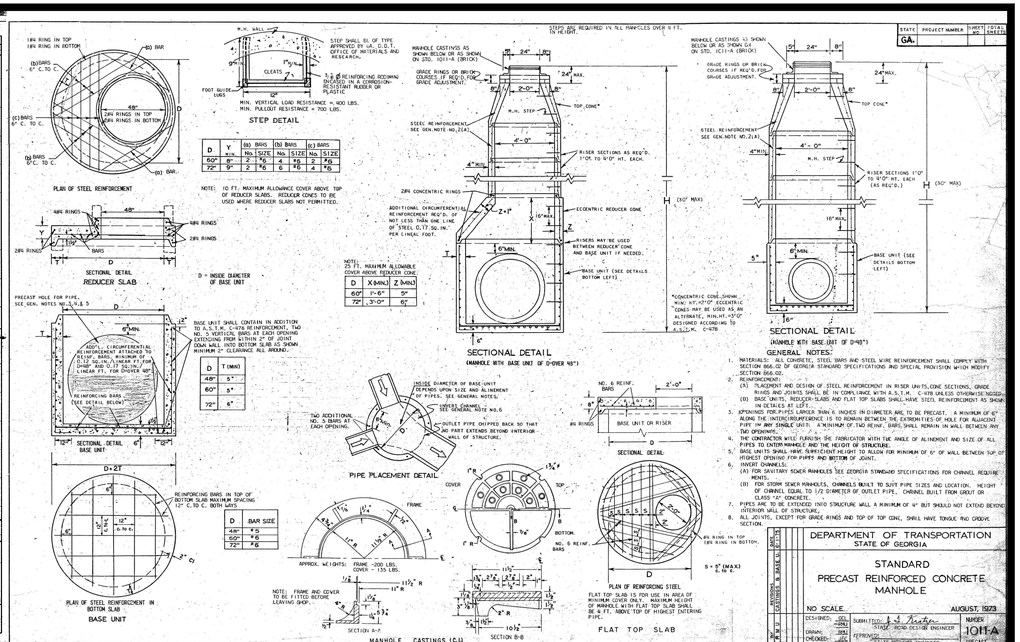
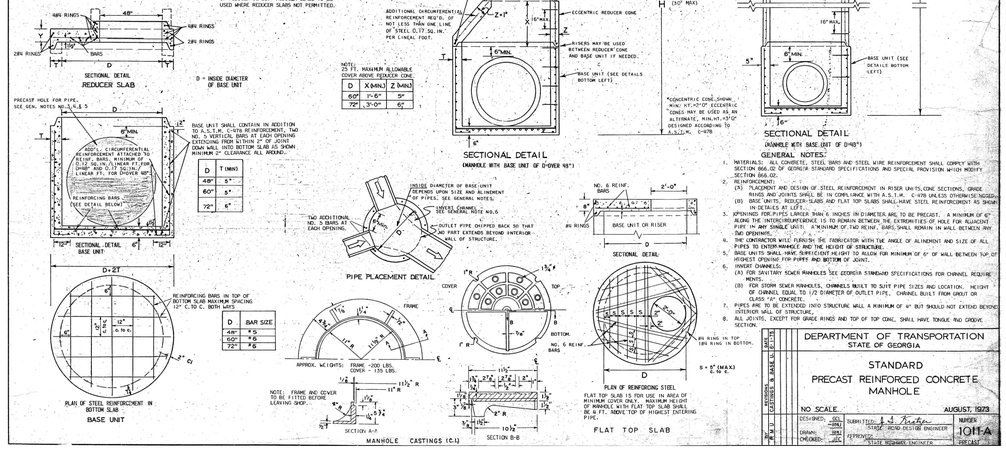
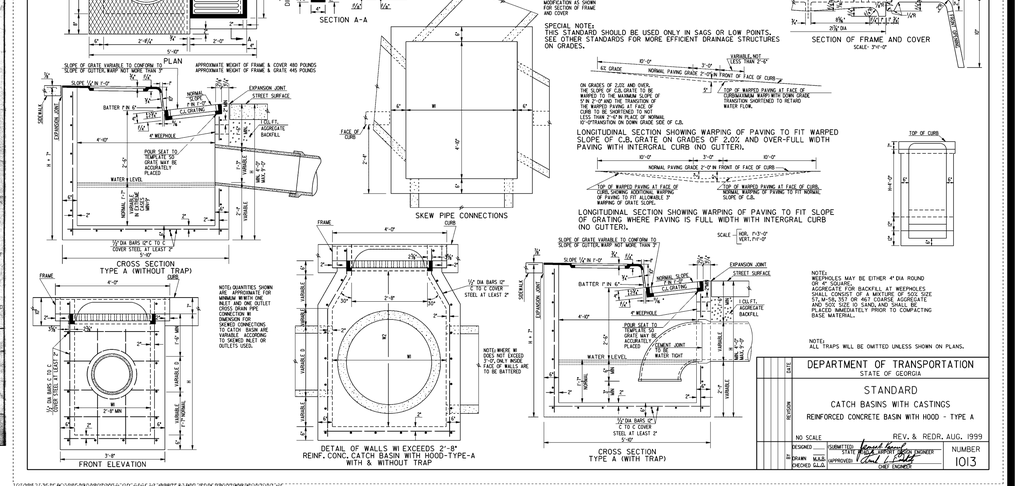
20-LD-054 DETAILS_D.DWG









DIMENSIONS			QUANTITIES ONE CATCH BASIN					SKEW CONNECTIONS DIMENSIONS	
INSIDE OF PIPE	90° W1	NORMAL W1	NORMAL H W2+H0'	CU YDS CL A CONC NORMAL H	CU YDS CL A CONC FOR EACH F ADD. H	LBS REBAR STEEL NORMAL H	LBS REBAR STEEL FOR EACH F ADD. H	C.I. GRATE	W1 30°	W1 45°
15"	2'-8"	4'-0"	4'-10"	1.696	0.315	132	18	1		
18"	2'-8"	4'-3"	5'-1"	1.706	0.315	135	18	1		
24"	2'-8"	4'-9"	5'-7"	1.779	0.325	153	18	1	3'-1"	3'-10"
30"	3'-4"	5'-3"	6'-1"	2.351	0.339	174	19	1	3'-10"	4'-9"
36"	4'-0"	5'-9"	6'-7"	2.568	0.366	179	20	1	4'-8"	5'-8"

D	Y	(a) BARS No.	(a) BARS SIZE	(b) BARS No.	(b) BARS SIZE
60"	8"	2	#6	4	#6
72"	9"	2	#6	6	#6

D	BAR SIZE
48"	#5
60"	#6
72"	#6

D	X MIN.	Z MIN.
60"	2'-6"	5"
72"	3'-0"	6"

D	T (MIN)
48"	5"
60"	5"
72"	6"

D	T MIN.
48"	5"
60"	5"
72"	6"

D	BAR SIZE
48"	#5
60"	#6
72"	#6

D	X MIN.	Z MIN.
60"	2'-6"	5"
72"	3'-0"	6"

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

GRADING AND DRAINAGE DETAILS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED No. PE034502 PROFESSIONAL 6/23/21 ENGINEER TODD L. SELDOMRIDGE
GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
LAND LOT 26 & 39, 5TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 038, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY DMN
CHECKED BY TLS
DATE: 06/23/2021
SCALE: NO SCALE
JOB No. 20-LD-054
SHEET NUMBER
D-2A

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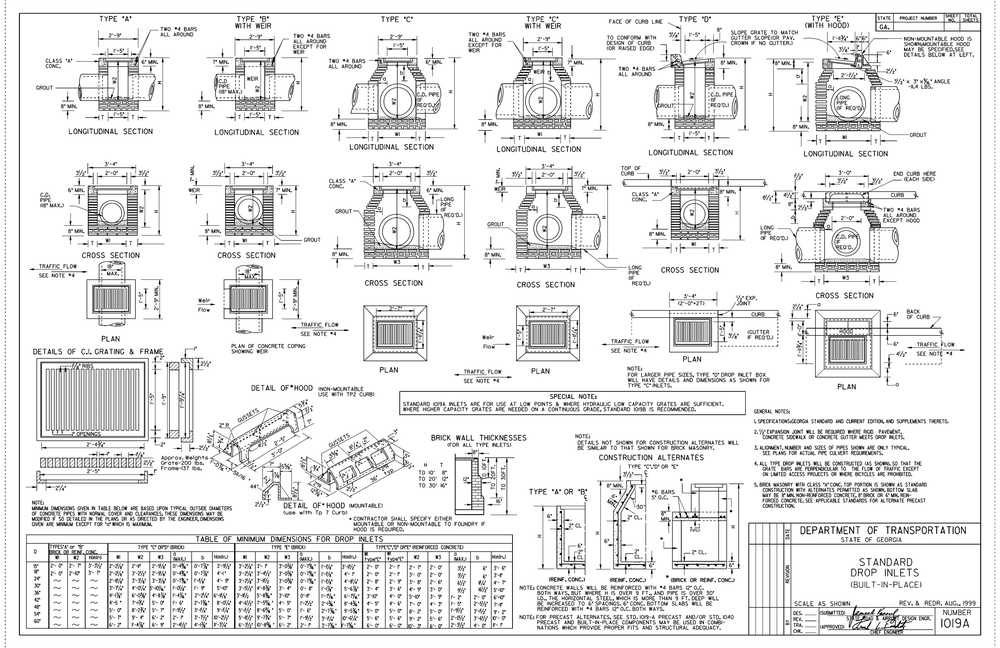

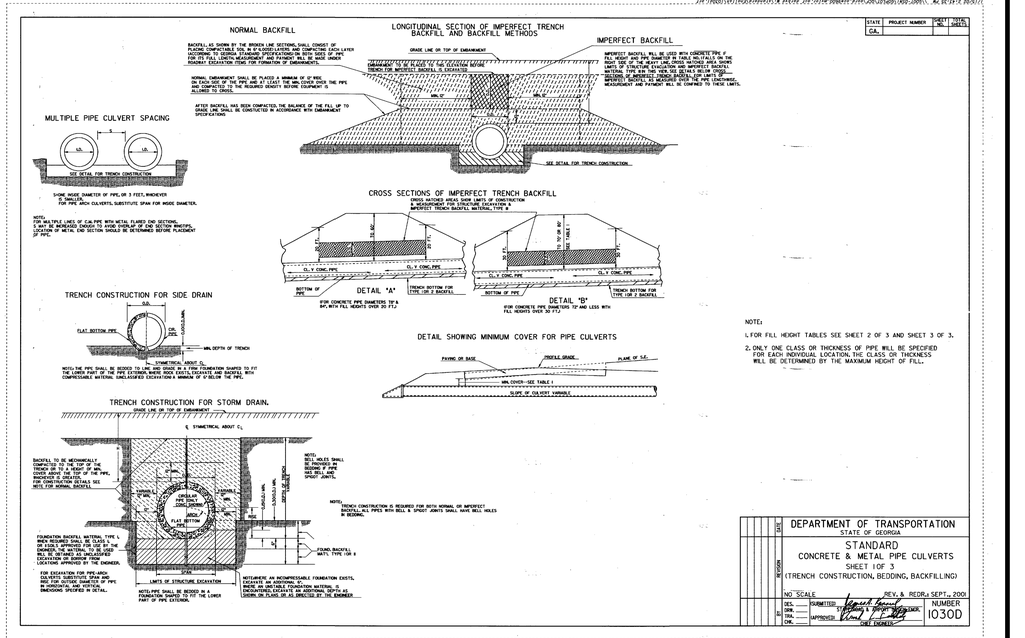

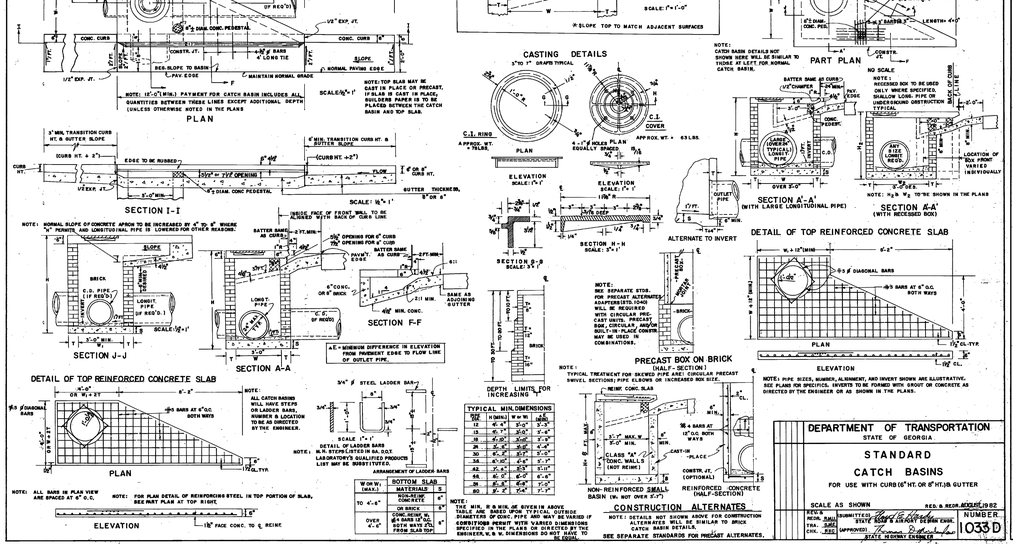

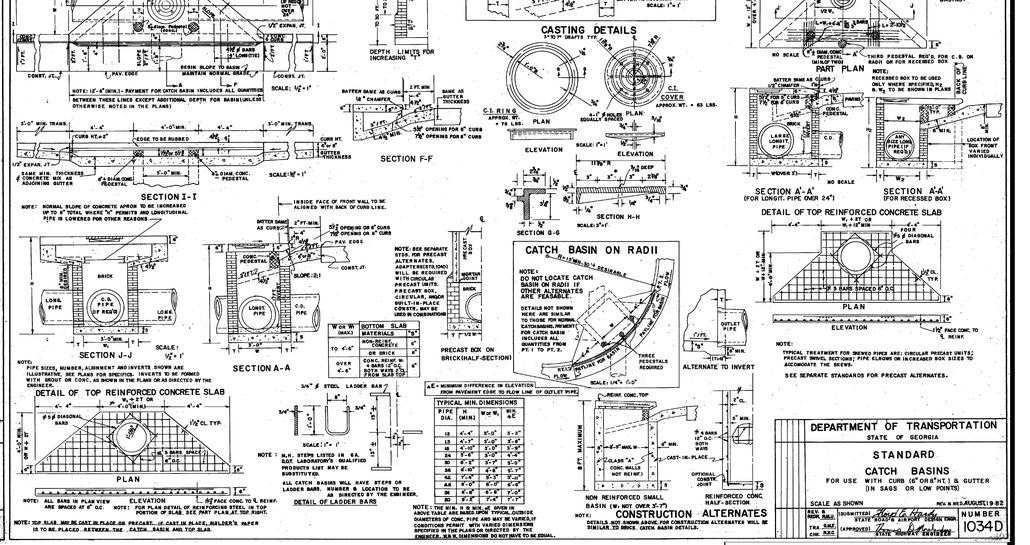

GRADING AND DRAINAGE DETAILS

CHA
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Duluth, GA 30097
770.447.8999 www.chacompanies.com

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LAND LOT 26 & 39, 5TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 038, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY DMN
CHECKED BY TLS
DATE: 06/23/2021
SCALE: NO SCALE
JOB No. 20-LD-054
SHEET NUMBER
D-2B

20-LD-054 DETAILS_D.DWG

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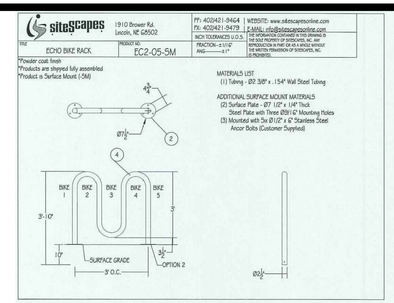
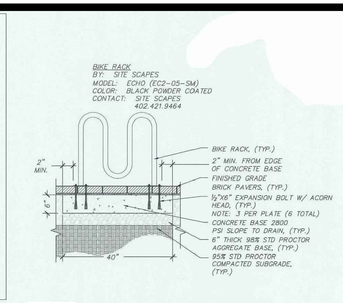


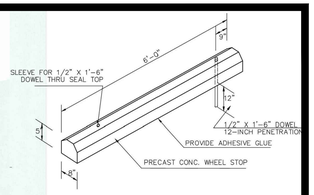
Bike Rack Specifications

N.T.S.



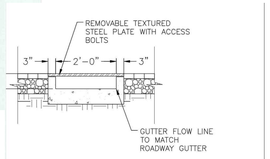
Section – Typ. Bike Rack Mounting

N.T.S.



CONCRETE WHEEL STOP

NOT TO SCALE



2' WIDE CONCRETE FLUME W/ COVER

NOT TO SCALE

LANDSCAPE AND HARDSCAPE DETAILS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
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REVISIONS	BY

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20-LD-054 DETAILS_D.DWG

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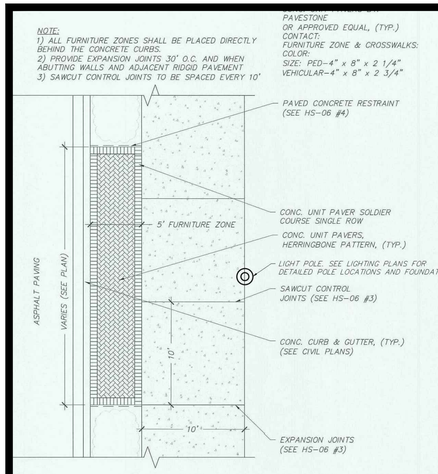
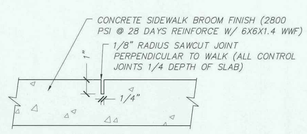


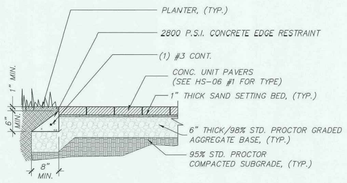
Plan - Sidewalk Scoring Pattern & Furniture Paving

N.T.S.



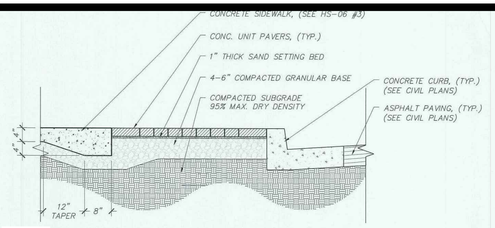
Section - Concrete Sidewalk Detail

N.T.S.



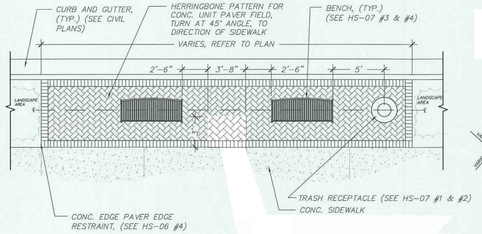
Section - Poured Conc. Edge Restraint

N.T.S.



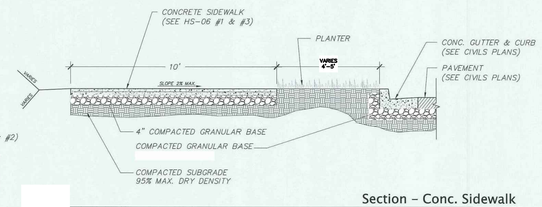
Section – Conc. Unit Pavers @ Conc. Paving

Scale: N.T.S.



PLAN - FURNITURE LOCATION

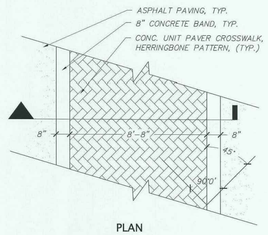
N.T.S.



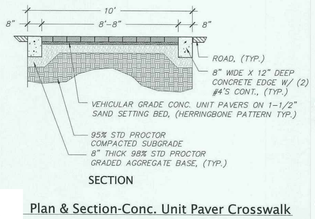
Section – Conc. Sidewalk

Scale: N.T.S.

VEHICULAR CONC. UNIT PAVERS BY:
PAVESTONE
OR APPROVED EQUAL, (TYP.)
COLOR:
SIZE: PED-4" x 8" x 2 1/4"
VEHICULAR-4" x 8" x 2 3/4"
CONTACT:



PLAN



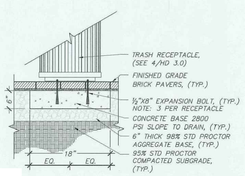
SECTION

Plan & Section-Conc. Unit Paver Crosswalk

N.T.S.

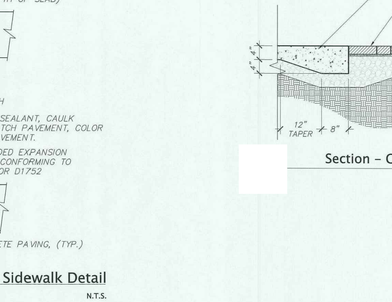
Trash Receptacle Specifications

N.T.S.



Section - Trash Receptacle Mounting

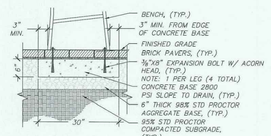
N.T.S.



Bench Specifications

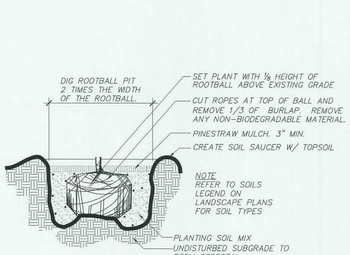
N.T.S.

BENCH
BY: SITE SCAPES
MODEL: CITY VIEW W/ ARCH BACK (CV1-1200)
COLOR: BLACK POWDER COATED
CONTACT: SITE SCAPES
402.421.9464



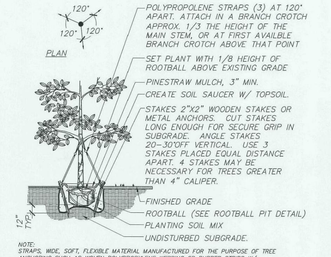
Section – Typ. Bench Mounting

N.T.S.



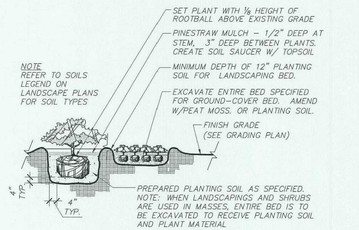
ROOTBALL PIT DETAIL

N.T.S.



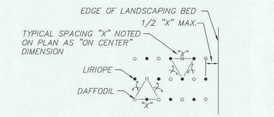
DECIDUOUS TREE STAKING DETAIL

N.T.S.



SHRUB & LANDSCAPING PLANTING DETAIL

N.T.S.



LIRIOPE & DAFFODIL BED SPACING DETAIL

N.T.S.

GENERAL PLANTING NOTES

1. THE QUANTITIES INDICATED ON THE MATERIAL SCHEDULE ARE PROVIDED FOR THE BENEFIT OF THE CONTRACTOR, BUT SHOULD NOT BE ASSUMED TO ALWAYS BE CORRECT. IN THE EVENT OF A DISCREPANCY, THE PLANTING PLAN WILL TAKE PRECEDENCE OVER THE THE MATERIAL SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY CALCULATIONS AND THE LIABILITY PERTAINING TO THOSE QUANTITIES AND ANY OTHER RELATED CONTRACT DOCUMENTS AND/OR PRICE QUOTATIONS.
2. THE CONTRACTOR SHALL NOT CHANGE OR SUBSTITUTE PLANT VARIETIES OR SPECIES WITHOUT THE WRITTEN PERMISSION OF THE PROJECT LANDSCAPE ARCHITECT.
3. ALL LANDSCAPE MATERIAL INSTALLATION SHALL CONFORM TO THE CURRENT STANDARDS OF THE AMERICAN NURSERYMAN'S ASSOCIATION (ANA) AND ARE SUBJECT TO THE APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION, AND THE REPAIR OF ANY DAMAGE INCURRED DURING THE EXECUTION OF THE WORK.
5. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL, STATE, AND FEDERAL CONSTRUCTION CODES AND SECURING ALL NECESSARY PERMITS.
6. THE CONTRACTOR SHALL MAKE PERIODIC INSPECTIONS OF THE PROJECT DURING THE GUARANTEE PERIOD TO SATISFY HIMSELF THAT ESTABLISHMENT RATE OF GROWTH IS ADEQUATE. ANY METHODS OR PRODUCTS DEEMED NOT NORMAL OR DETRIMENTAL TO GOOD PLANT GROWTH SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT IN WRITING. FAILURE TO INSPECT AND REPORT WILL BE INTERPRETED AS APPROVAL, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL REPLACEMENTS.
7. REFER TO THE GRADING PLAN FOR ROUGH GRADES OF PLANTING BEDS. FINAL GRADES ARE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT.
8. PLANT MATERIAL TO BE PLACED AS SHOWN ON THE PLANTING PLANS. ALL PLANT MATERIAL SHALL BE SUBJECTED TO APPROVAL BY PROJECT LANDSCAPI ARCHITECT PRIOR TO BACKFILLING AND MULCHING.
9. DO NOT SCALE FROM DRAWING.
10. NEW SHRUB PLANTING IS TO BE A MINIMUM OF 24" AWAY FROM EXISTING TREES.
11. PLANTING PLAN IS FOR THE LOCATION AND IDENTIFICATION OF VEGETATION ONLY. NO OTHER WORK IS TO BE PERFORMED BASED ON THIS PLAN.
12. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE OF ALL PLANTING PITS AND PLANT BEDS PRIOR TO INSTALLATION.
13. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE DETERMINED BY OWNER.
14. THE PLANTING SOIL MIX SHALL CONSIST OF THE FOLLOWING:

    FOR TREES, SHRUB, AND GROUNDCOVERS
    50% TOPSOIL
    50% PREPARED ADDITIVES (BY VOLUME AS FOLLOWS):

    3 PARTS - ORGANIC SOIL CONDITIONER (NATURE'S HELPER OR EQUAL)
    1 PART - STERILIZED COW MANURE
    COMMERCIALLY AVAILABLE STARTER FERTILIZER @ RATES SPECIFIED BY MANUFACTURER
    LIME (AS RECOMMENDED IN SOIL ANALYSIS)

15. TOPSOIL HAS BEEN (OR WILL BE) STOCKPILED FOR RE-USE IN LANDSCAPE WORK. IF QUANTITY OF STOCKPILED TOPSOIL IS INSUFFICIENT, PROVIDE ADDITIONAL TOPSOIL AS REQUIRED TO COMPLETE LANDSCAPE WORK.

    IF TOPSOIL FOR LANDSCAPE WORK IS NOT AVAILABLE ON-SITE THEN TOPSOIL MUST BE FURNISHED AS SPECIFIED.

    PROVIDE NEW TOPSOIL THAT IS FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER, AND FREE OF ROOTS, STUMPS, STONES, LARGER THAN 2 INCHES IN ANY DIMENSION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH.

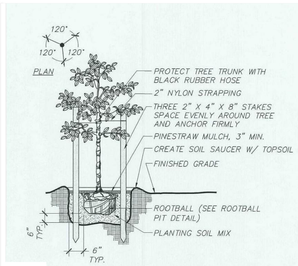
    OBTAIN TOPSOIL FOR LOCAL SOURCES OF FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT PROJECT SITE. OBTAIN TOPSOIL ONLY FROM NATURALLY, WELL DRAINED SITES WHERE TOPSOIL OCCURS IN A DEPTH OF NOT LESS THAN 4 INCHES. DO NOT OBTAIN FROM BOGS OR MARSHES.

16. PREPARATION FOR PLANTING LAWNS

    LOOSEN SUBGRADE OF LAWN AREAS TO A MINIMUM DEPTH OF 6 INCHES. REMOVE STONES MEASURING OVER 1-1/2 INCHES IN ANY DIMENSION. REMOVE STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER. LIMIT PREPARATION TO AREAS WHICH WILL BE PLANTED PROMPTLY AFTER PREPARATION.

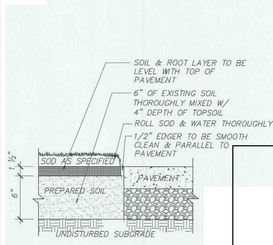
    SPREAD TOPSOIL, TILL AND RAKE, TO MINIMUM 4 INCH DEPTH TO MEET LINES, GRADES, AND ELEVATIONS SHOWN, AFTER LIGHT ROLLING AND NATURAL SETTLEMENT.

17. MULCH WITH PINESTRAW MULCH, 3" DEEP.
18. THE CONTRACTOR SHALL COORDINATE THE SPECIFIC LIGHT POLE LOCATIONS WITH THE FINAL LANDSCAPING AND HARDSCAPE ELEMENTS.



SMALL TREE STAKING DETAIL

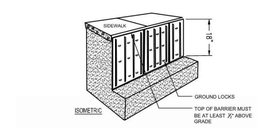
N.T.S.

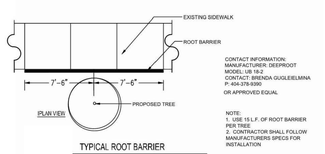


SOD DETAIL

PLANT SCHEDULE

QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CONT.	NOTES & COMMENTS
SMALL TREES					
3	PRUNUS SERRULATA 'KWANZAN'	KWANZAN CHERRY	2-2 1/2" CAL.	B&B	FULL, WELL BRANCHED
24	PRUNUS SUBHIRTELLA AUTUMNALIS	AUTUMNALIS CHERRY	2-2 1/2" CAL.	B&B	SPECIMEN, FULL WELL BRANCHED, DENSE
SOD					
22,042	CYNODON DACTOLON 'TIFWAY 419'	TIFWAY BERMUDA GRASS '419'	SQ. FT.	SOD	CERTIFIED PURE, WEED FREE





TYPICAL ROOT BARRIER

NOT TO SCALE

LANDSCAPE AND HARDSCAPE DETAILS

CHA
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Duluth, GA 30097
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GEORGIA REGISTERED No. PE034502 PROFESSIONAL ENGINEER TODD L. SELDOMRIDGE 6/23/21

GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
LAND LOT 26 & 39, 6TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 036, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

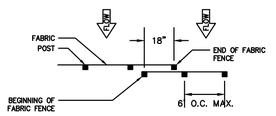
DRAWN BY: DMN
CHECKED BY: TLS
DATE: 06/23/2021
SCALE: NO SCALE
JOB No.: 20-LD-054
SHEET NUMBER: D-3B

20-LD-054 DETAILS_D.DWG

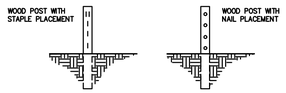
USER 6701 - Jun 23, 2021 - 3:10pm
Z:\All Project Data\Projects\2020\20-LD-054 Snellville (The Grove-City Streets) GA\LD\Production\Production Drawings\20-LD-054 Details_D.dwg

FASTENERS FOR SILT FENCES

OVERLAP AT FABRIC ENDS



TOP VIEW – NOT TO SCALE



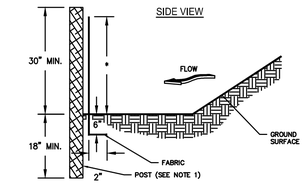
FRONT VIEWS – NOT TO SCALE

NOTES:
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

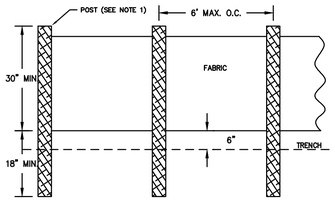
Sd1

SILT FENCE - TYPE NON-SENSITIVE

SIDE VIEW



FRONT VIEW

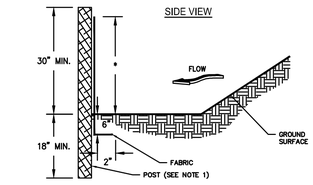


NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (") IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. 28" UNLESS OTHERWISE SPECIFIED.

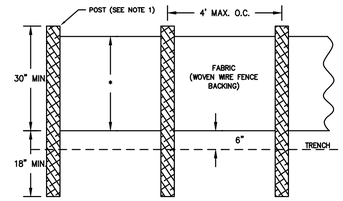
Sd1

SILT FENCE - TYPE SENSITIVE

SIDE VIEW



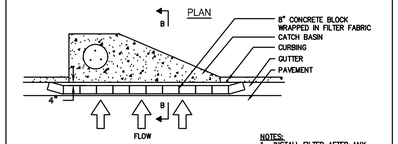
FRONT VIEW

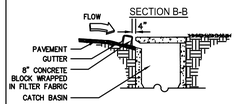


NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (") IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. 28" UNLESS OTHERWISE SPECIFIED.

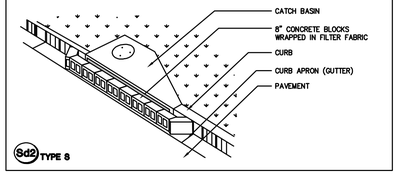
Sd1 TYPE NS

CURB INLET FILTER "PIGS IN BLANKET"





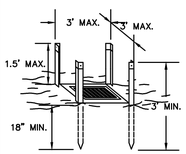
NOTES:
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
3. FACE OPENINGS IN BLOCKS OUTWARD.
4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.



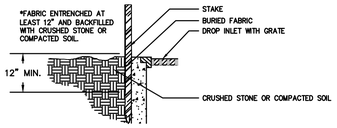
Sd2 TYPE S

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

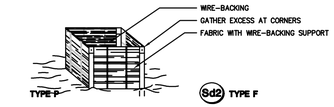
STEEL FRAME AND SILT FENCE INSTALLATION



NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.



TYPE F

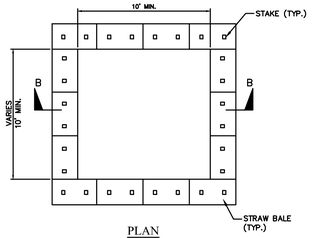


Sd2 TYPE F

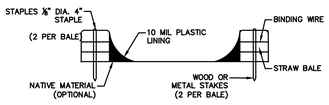
CONCRETE WASHOUT DETAIL

24

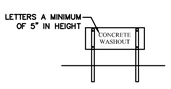
STRAW BALE BARRIER CONCRETE WASHOUT



PLAN
NOT TO SCALE
TYPE "ABOVE GRADE" WITH STRAW BALES

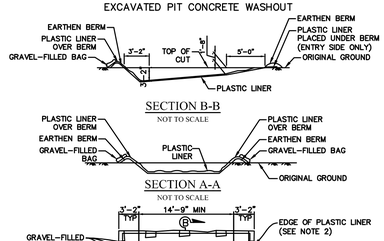


SECTION B-B
NOT TO SCALE



CONCRETE WASHOUT SIGN DETAIL
NOT TO SCALE

EXCAVATED PIT CONCRETE WASHOUT



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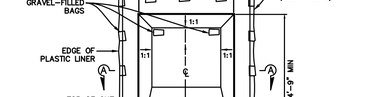

SECTION A-A
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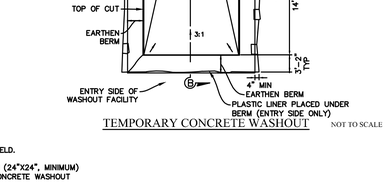


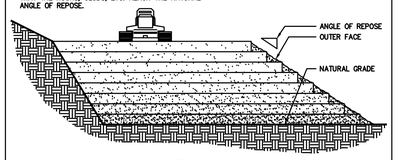
TEMPORARY CONCRETE WASHOUT
NOT TO SCALE

NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.

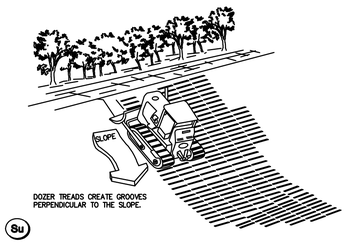
SCALE: NTS

FILL SLOPE TREATMENT

EACH LIFT OF THE FILL IS COMPACTED, BUT THE OUTER FACE OF THE SLOPE IS ALLOWED TO REMAIN LOOSE SO THAT THE ROCKS, CLODS, ETC. REACH THE NATURAL ANGLE OF REPOSE.



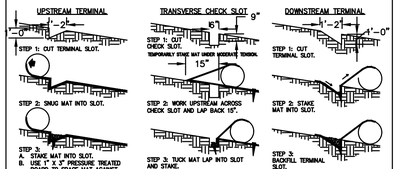
TRACKING



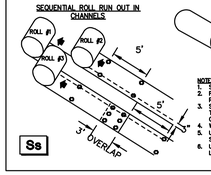
Su

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

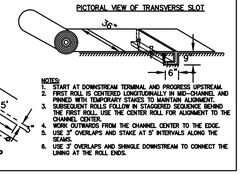
BLANKET AND MATTING CROSS-SECTIONS



SEQUENTIAL ROLL RUN OUT IN CHANNELS



PICTORAL VIEW OF TRANSVERSE SLOT

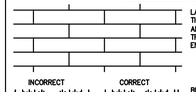


NOTES:
1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.
4. WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE.
5. USE 3' OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE SEAMS.
6. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINING AT THE ROLL ENDS.

Ss

SOD MAINTENANCE AND INSTALLATION

SOD LAYOUT AND PREPARATION



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 AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

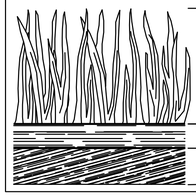
DIRECTIONS FOR INITIAL MAINTENANCE

Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL

Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

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

APPEARANCE OF GOOD SOD



Ds4

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.

(XX) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET ES-4 FOR ES&PC CHECKLIST.

EROSION SEDIMENTATION, AND POLLUTION CONTROL DETAILS

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GEORGIA REGISTERED No. PE034502 PROFESSIONAL ENGINEER 6/23/21 TODD L. SELDOMRIDGE

GSWCC# 3039

Project Title
TOWNCENTER ROADWAY IMPROVEMENTS
WISTERIA DRIVE, OAK ROAD, NORTH RIDGE ROAD, CLOWER STREET
LAND LOT 26 & 39, 6TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 036, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

(08) REVISIONS	BY

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CHECKED BY	TLS
DATE (08)	06/23/2021
SCALE:	NO SCALE
JOB No.	20-LD-054
SHEET NUMBER	D-4A

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Disturbed Area Stabilization (With Mulching Only) Ds1



DEFINITION

Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

PURPOSE

- To reduce runoff and erosion
- To conserve moisture
- To prevent surface compaction or crusting
- To control undesirable vegetation
- To modify soil temperature
- To increase biological activity in the soil

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months.

If any area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to **Ds2 -Disturbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Sodding)**.

SPECIFICATIONS

Mulching Without Seeding

This standard applies to graded or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation

1. Grade to permit the use of equipment for applying and anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials

Select one of the following materials and apply at the depth indicated:

1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.
2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

Applying Mulch

When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.
2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
3. Apply polyethylene film on exposed areas.

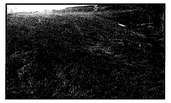
Anchoring Mulch

1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

   Straw or hay mulch spread with special blower-type equipment may be anchored. Tackifiers, binders and hydraulic mulch with tackifier specifically designed for tacking straw can be substituted for emulsified asphalt. Please refer to specification **Tac-Tackifiers**. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.

2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.
3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

Disturbed Area Stabilization (With Temporary Seeding) Ds2



DEFINITION

The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.

PURPOSE

- To reduce runoff and sediment damage of down stream resources
- To protect the soil surface from erosion
- To improve wildlife habitat
- To improve aesthetics
- To improve tilth, infiltration and aeration as well as organic matter for permanent plantings

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. If an area is expected to be undisturbed for longer than six months, permanent perennial vegetation shall be used. If optimum planting conditions for temporary grassing is lacking, mulch can be used as a singular erosion control device for up to six months but it shall be **applied** at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface. Refer to specification **Ds1-Disturbed Area Stabilization (With Temporary Seeding).**

CONDITIONS

Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established. Note: Some species of temporary vegetation are not appropriate for companion crop plantings because of their potential to out-compete the desired species (e.g. annual ryegrass). Contact NRCS or the local SWCD for more information.

SPECIFICATIONS

Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall.

When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the remaining required application rate.

Seeding

Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, cultipacker-seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand. See Table 6-4.1

Mulching

Temporary vegetation can, in most cases, be established without the use of mulch, provided there is little to no erosion potential. However, the use of mulch can often accelerate and enhance germination and vegetation establishment. Mulch without seeding should be considered for short term protection. Refer to **Ds1 - Disturbed Area Stabilization (With Mulching Only)**.

Irrigation

During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when needed.

Disturbed Area Stabilization (With Permanent Vegetation) Ds3

DEFINITION

The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization.

PURPOSE

- To protect the soil surface from erosion
- To reduce damage from sediment and runoff to down-stream areas
- To improve wildlife habitat and visual resources
- To improve aesthetics

REQUIREMENT FOR REGULATORY COMPLIANCE

This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. **Final Stabilization** means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by the GA EPD for waste disposal, 100% of the soil surface is uniformlycovered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures.

Permanent vegetation shall consist of, planted trees, shrubs, perennial vines; or a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. For linear construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use. Until this standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

CONDITIONS

Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas.

PLANNING CONSIDERATIONS

1. Use conventional planting methods where possible.
2. When mixed plantings are done during marginal planting periods, companion crops shall be used.
3. No-till planting is effective when planting is done following a summer or winter annual cover crop. Sericea lespedeza planted no-till into stands of rye is an excellent procedure.
4. Block sod provides immediate cover. It is especially effective in controlling erosion adjacent to concrete flumes and other structures. Refer to Specification **Ds4-Disturbed Area Stabilization (With Sodding).**
5. Irrigation should be used when the soil is dry or when summer plantings are done.
6. Low maintenance plants, as well as natives, should be used to ensure long-lasting erosion control.
7. Mowing should not be performed during the quail nesting season (May to September).
8. Wildlife plantings should be included in critical area plantings.

Table 6-5.1. Fertilizer Requirements Ds3

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 1/2/ 30
2. Cool season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	0-50 lbs./ac. 1/ --- ---
3. Ground covers	First Second Maintenance	10-10-10 10-10-10 10-10-10	1300 lbs./ac. 3/ 1300 lbs./ac. 3/ 1100 lbs./ac.	--- --- ---
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	---
5. Shrub Lespedeza	First Maintenance	0-10-10 0-10-10	700 lbs./ac. 700 lbs./ac. 4/	---
6. Temporary covr crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Warm season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 800 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 2/6/ 50-100 lbs./ac. 2/ 30 lbs./ac.
8. Warm season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50 lbs./ac./6/ 50 lbs./ac./6/

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

Dust Control on Disturbed Areas Du



DEFINITION

Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE

- To prevent surface and air movement of dust from exposed soil surfaces.
- To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS

This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. Temporary Methods

Mulches. See standard **Ds1 - Disturbed Area Stabilization (With Mulching Only)**. Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification **Tac - Tackifiers**. Resins should be used according to manufacturer's recommendations.

Vegetative Cover. See specification **Ds2 - Disturbed Area Stabilization (With Temporary Seeding).**

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification **Tac - Tackifiers**.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods

Permanent Vegetation. See specification **Ds3 -Disturbed Area Stabilization (With Permanent Vegetation)**. Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See specification **Tp - Topsoiling.**

Stone. Cover surface with crushed stone or coarse gravel. See specification **Cr-Construction Road Stabilization**.

Topsoiling Tp



DEFINITION

Stripping off the more fertile top soil, storing it, then spreading it over the disturbed area after completion of construction activities.

PURPOSE

To provide a suitable soil medium for vegetative growth on areas where other measures will not produce or maintain a desirable stand.

CONDITIONS

This practice is recommended for sites of 2:1 or flatter slopes where:

1. The texture of the exposed subsoil or parent material is not suitable to produce adequate vegetative growth.
2. The soil material is so shallow that the rooting zone is not deep enough to support plants with continuing supplies of moisture and food.
3. The soil to be vegetated contains material toxic to plant growth.

CONSTRUCTION SPECIFICATIONS

Materials

Topsoil should be friable and loamy, free of debris, objectionable weeds and stones and contain no toxic substance that may be harmful to plant growth. A pH range of 5.0-7.5 is acceptable. Soluble salts should not exceed 500 ppm.

Testing

Field exploration should be made to determine whether the quantity and quality of surface soil justifies stripping.

Stripping

Stripping should be confined to the immediate construction area.

A 4 to 6 inch stripping depth is common, but may vary depending on the particular soil.

Topsoil pH

If pH value is less than 6.0, lime shall be applied and incorporated with the topsoil to adjust the pH to 6.5 or higher. Topsoils containing soluble salts greater than 500 parts per million shall not be used.

Stockpiles

The location of topsoil stockpiles should not obstruct natural drainage or cause off-site environmental damage.

Stabilization

Stockpiles shall be contained by sediment barriers to prevent sedimentation on adjacent areas. Stockpiles shall be stabilized in accordance with specifications **Ds1 and Ds2 - Disturbed Area Stabilization (With Mulching) and (With Temporary Grassing),** respectively, or **Tac-Tackifiers.**

Site Preparation
(Where topsoil is to be added)

Topsoiling - When topsoiling, maintain needed erosion control practices such as diversions, grade stabilization structures, berms, dikes, level spreaders, waterways, sediment basins, etc.

Grading - Grades on the areas to be topsoiled that have been previously established shall be maintained.

Liming - Soil tests should be used to determine the pH of the soil. Where the pH of the subsoil is 5.0 or less or composed of heavy clays, agricultural limestone shall be spread at the rate of 100 pounds per 1,000 square feet. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedure.

Bonding - Use one of the following methods to insure bonding of topsoil and subsoil:

1. Tilling. After the areas to be topsoiled have been brought to grade, and immediately prior to dumping and spreading the topsoil, the subgrade shall be loosened by discing or scarifying to a depth of at least 3 inches to permit bonding of the topsoil to the subsoil.
2. Tracking. Passing a bulldozer over the entire surface area of the slope to leave horizontal depressions.

Applying Topsoil

1. Topsoil should be handled only when it is dry enough to work without damaging soil structure.
2. A uniform application of 5 inches (unsettled) is recommended, but may be adjusted at the discretion of the design professional.

Table 6-37.1. Cubic Yards Of Topsoil Required For Application To Various Depths

Depth (Inches)	Per 1,000 Square Feet	Per Acre
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806

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EROSION SEDIMENTATION, AND POLLUTION CONTROL DETAILS

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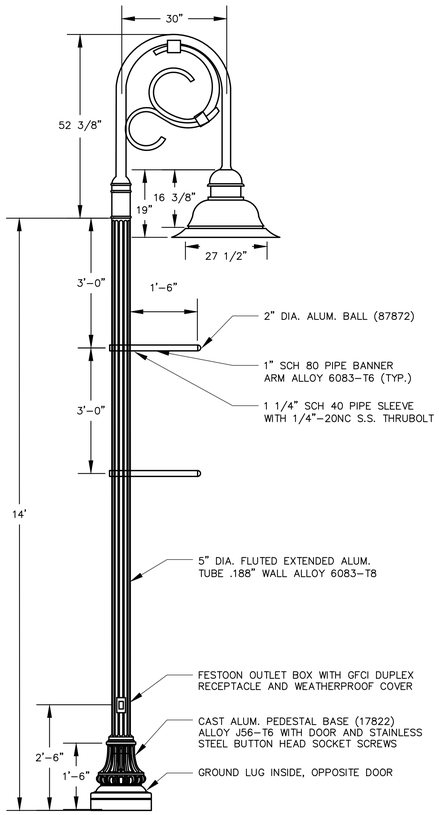
ELECTRICAL ABBREVIATIONS

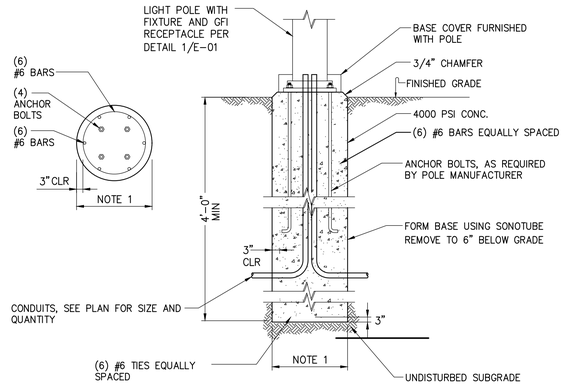
A	AMPERE	KW	KILOWATT
AC	ALTERNATING CURRENT		
AWG	AMERICAN WIRE GAUGE	MAX	MAXIMUM
		MIN	MINIMUM
BCW	BARE COPPER WIRE		
		N	NEUTRAL
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE 2020
CB	CIRCUIT BREAKER	No/#	NUMBER
℄	CENTER LINE		
		ø	PHASE
DIA	DIAMETER		
DWG	DRAWING	RMC	RIGID METAL CONDUIT
		TYP	TYPICAL
EGC	EQUIPMENT GROUNDING CONDUCTOR		
		UON	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPS		
FT	FOOT (FEET)	V	VOLT, VOLTS
G, GND	GROUND	W	WATT, WIRE
GFI	GROUND FAULT CIRCUIT INTERRUPTER	W/	WITH
		WP	WEATHERPROOF
HDPE	HIGH DENSITY POLYETHYLENE		
HH	HANDHOLE		



1 – LIGHT POLE DETAIL
NOT TO SCALE

LIGHT FIXTURE SCHEDULE

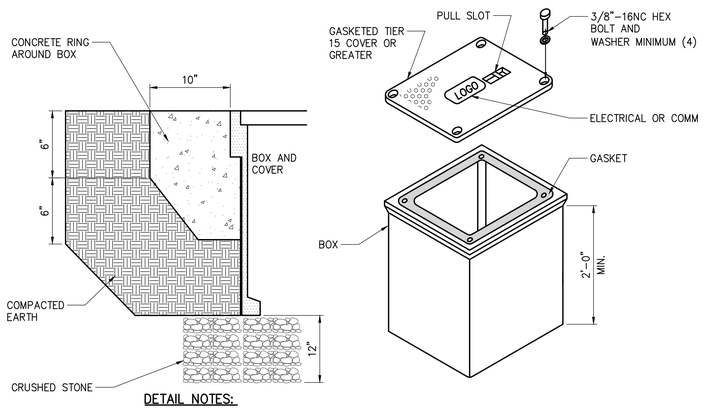
SYMBOL	TAG	DESCRIPTION	MOUNTING	LAMP(S)	DRIVER	VOLTS	INPUT WATTS	MANUFACTURER, SERIES, OR MODEL NUMBER	NOTES
☼	L1	LIGHT POLE WITH ONE LED AREA LIGHT FIXTURE, ONE GFI RECEPTACLE WITH WEATHERPROOF COVER AND TWO PIPE BANNER ASSEMBLIES.	ROUND STEEL POLE FIXTURE HEIGHT ±14' AFG	LED	LIGHT ENGINE	120	120W PER FIXTURE	PROVIDE POLE AND LIGHT FIXTURE THAT IS EXACT MATCH TO EXISTING STREET LIGHTING	1
	NOTES: 1. PROVIDE REINFORCED CONCRETE BASE PER DETAIL 4/E-01.								



LIGHT POLE CONCRETE BASE DETAIL NOTES:

1. PROVIDE REINFORCED CONCRETE LIGHT POLE BASES PER PLANS. MINIMUM DIAMETER OF EACH BASE SHALL BE 24 INCHES AND THE HEIGHT OF EXPOSED CONCRETE BASE ABOVE FINISHED SURFACES SHALL BE 1 INCH.
2. BOLT LENGTH, DIAMETER, LAYOUT & INSTALLATION PROCEDURE AS PER LIGHT POLE MANUFACTURER'S SPECIFICATIONS.
3. PIER SHALL BEAR ON VIRGIN SOIL OR BEDROCK. SHOULD MISCELLANEOUS DEBRIS, OR BURIED ORGANICS BE ENCOUNTERED, EXTEND PIER 1' BELOW DEBRIS OR 6'-0" BELOW GRADE, WHICHEVER IS GREATER.
4. CONCRETE: f'c=4000 psi, MAX w/c RATIO = 0.44, ENTRAINED AIR = 6% ±2%, SLUMP = 3"±1".
5. DRILL MINIMUM DIAMETER HOLE FOR CONCRETE PLACEMENT. DO NOT OVEREXCAVATE AND BACKFILL.
6. PLACE CONCRETE FROM THE BOTTOM OF THE SONOTUBE USING A TREMIE. RAISE TREMIE AS CONCRETE PLACEMENT ADVANCES. DO NOT ALLOW CONCRETE TO FREE-FALL TO BOTTOM OF FOUNDATION.
7. CENTER CONDUITS BETWEEN REINFORCEMENT TO PROVIDE MAXIMUM CONCRETE COVER OF BARS.
8. PROVIDE IN LINE FUSES FOR EACH FIXTURE. SIZE PER MANUFACTURER'S SPECIFICATIONS.
9. PROVIDE 5/8" x 10' COPPER CLAD STEEL GROUND ROD AT EACH BASE. CADWELD #6 AWG BCW TO GROUND ROD, PROVIDE MECHANICAL CONNECTION TO STEEL BARS IN BASE, EXTEND TO GROUND LUG IN LIGHT POLE. GROUND RODS AND BCW NOT SHOWN FOR CLARITY.

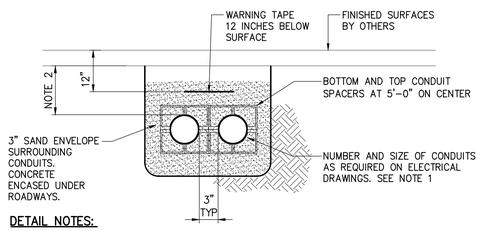
2 – CONCRETE BASE FOR FOR LIGHT POLES
NOT TO SCALE



DETAIL NOTES:

1. SIZE HANDHOLE AT EACH LOCATION PER NEC REQUIREMENTS. MINIMUM SIZE SHALL BE 18" X 18" X 24".
2. PROVIDE ALL CONDUITS WITH A PULL ROPE.
3. PROVIDE EXCAVATION AND BACKFILL COMPLETE. SITE REPAIR BY OTHER TRADES.

3 – HANDHOLE AND COVER
NOT TO SCALE



DETAIL NOTES:

1. COORDINATE PLACEMENT OF NEW CONDUITS AND HANDHOLES WITH REMOVAL OF EXISTING SURFACES AND PLACEMENT OF NEW SURFACES.
2. MINIMUM 30 INCHES BELOW GRADE OR 6 INCHES BELOW BOTTOM OF FROST LINE; WHICHEVER IS DEEPER.
3. PROVIDE EXCAVATION AND BACKFILL COMPLETE. SITE REPAIR BY OTHER TRADES

4 – UNDERGROUND CONDUIT INSTALLATION DETAIL
NOT TO SCALE

GENERAL NOTES:

1. GENERAL NOTES ON THIS DRAWING APPLY TO ALL ELECTRICAL DRAWINGS.
2. ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE BY A LICENSED ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE INSTALLATION FOR ALL WORK SHOWN ON THE ELECTRICAL SERIES OF DRAWINGS. ALL INSTALLATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE PROJECT DRAWINGS AND SPECIFICATIONS AND WITH APPLICABLE ARTICLES IN THE NATIONAL ELECTRICAL CODE 2020. IF A CONFLICT EXISTS BETWEEN THE CONSTRUCTION DOCUMENTS AND THE NATIONAL, STATE OR LOCAL CODES, THE MORE STRINGENT OF THESE REQUIREMENTS SHALL APPLY.
4. REFER TO CIVIL DRAWINGS FOR SYMBOLS ASSOCIATED WITH WORK, EQUIPMENT, ETC. BY OTHER TRADES.
5. CIRCUITRY SHOWN IS DIAGRAMMATIC UNLESS OTHERWISE NOTED. EXACT LOCATION OF ALL CONDUITS, RACEWAYS, BOXES, EQUIPMENT, SHALL BE DETERMINED IN THE FIELD. COORDINATE INSTALLATIONS AND AVOID CONFLICT WITH OTHER UNDERGROUND UTILITIES. SOME REQUIRED BRANCH CIRCUITRY MAY NOT BE SHOWN FOR CLARITY. PROVIDE CONDUIT AND CABLES COMPLETE FROM SOURCE EQUIPMENT FIXTURES, DEVICES, ETC. BEING SERVED.
6. PROVIDE ALL FIXTURES, RACEWAYS, SUPPORTS, BRANCH CIRCUITRY, ACCESSORIES, ETC. SHOWN, NOTED AND/OR INDICATED ON ELECTRICAL PLANS AND DIAGRAMS.
7. AWG CONDUCTOR SIZES LISTED ON THESE DRAWINGS ARE BASED ON NEC 75° AMPACITY RATINGS. HOWEVER; PROVIDE 90° C RATED COPPER CONDUCTORS FOR ALL WIRING INSTALLATIONS. WHERE OVERSIZED CONDUCTORS ARE REQUIRED TO LIMIT VOLTAGE DROP AS REQUIRED BY NEC, PROVIDE MATERIALS THAT ARE LISTED AND LABELED FOR THAT USE TO TERMINATE CONDUCTORS AT EQUIPMENT, FIXTURES, DEVICES, ETC. THAT ARE LISTED AND LABELED FOR THE INTENDED PURPOSE.
8. ALL ELECTRICAL EQUIPMENT, FIXTURES, DEVICES, MATERIALS, ETC. SHALL BE LISTED AND LABELED BY A CERTIFIED TESTING LABORATORY OR AGENCY AS REQUIRED BY THE NATIONAL ELECTRICAL CODE 2020.

RACEWAYS

CONDUIT ABOVE GROUND EXPOSED IN UNFINISHED SPACE AND CONCEALED IN FINISHED ROOMS
MINIMUM CONDUIT SHALL BE 3/4 INCH TRADE SIZE AND MINIMUM WIRE SIZE SHALL BE #12 AWG. TYPICAL ALL INSTALLATIONS.
NOTES:
WHERE LARGER SIZE WIRES ARE CALLED FOR TO LIMIT VOLTAGE DROP, PROVIDE SIZE AS NOTED TO LAST DEVICE OR FIXTURE ON THE CIRCUIT.
PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN EACH AND EVERY CONDUIT INSTALLED.
DO NOT SHARE NEUTRAL CONDUCTORS. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120 VOLT BRANCH CIRCUIT.

DASHED LINES INDICATE CONDUITS BELOW GROUND

EP #1/3/5 — HOMERUN BACK TO PANEL (PANEL AND CIRCUITS INDICATED) STRAIGHT LINE OR CURVE LINE WITH ARROWHEAD INDICATES HOMERUN TO PANEL AS NOTED. TOP LINE IDENTIFIES PANEL. BOTTOM LINE NUMBER IF LISTED IDENTIFIES SOURCE CIRCUIT BREAKER. PROVIDE TYPES OF CIRCUITRY AS NOTED BELOW:
ONE 120 VOLT SINGLE PHASE CIRCUIT
#.# TWO OR MORE 120 VOLT SINGLE PHASE CIRCUITS

DEVICES AND APPURTENANCES

HH — HANDHOLE WITH TIER 10 COVER. MINIMUM SIZE 12" WIDE, 24" LONG 18" DEEP. PROVIDE LARGER HANDHOLE AS REQUIRED BY NEC.

POWER DISTRIBUTION EQUIPMENT

SURFACE MOUNTED BRANCH CIRCUIT PANEL 208/120V, 3ø, 4W, FURNISHED AND INSTALLED UNDER SEPARATE CONTRACT.

ONE LINE DIAGRAMS

MOLDED CASE CIRCUIT BREAKER. FURNISHED AND INSTALLED UNDER SEPARATE CONTRACT.

GENERAL

(#) — NUMBER IN CIRCLE, WITH OR WITHOUT ARROW OR LEADER, REFER TO MATCHING NUMBERED CODED NOTE

◇# — NUMBER IN DIAMOND, WITH OR WITHOUT ARROW OR LEADER; REFER TO THE DEMOLITION CODED NOTE WITH THE MATCHING NUMBER

[#] — PLAN AND DETAIL CALLOUTS

LIGHTING

SEE LIGHT FIXTURE SCHEDULE FOR LIGHT FIXTURE SYMBOLS

LIGHTING CONTROL

(PC) — 120 VOLT PHOTOCELL

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GSWCC# 3039

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WISTERIA DRIVE, OAK ROAD, NORTH ROAD, CLOWER STREET
LAND LOT 26 & 39, 5TH DISTRICT, PARCELS 014, 258, 275, 208, 190, 191, 036, 013
SNELLVILLE, GWINNETT COUNTY, GA
BY: CITY OF SNELLVILLE

REVISIONS	BY

DRAWN BY: KEP
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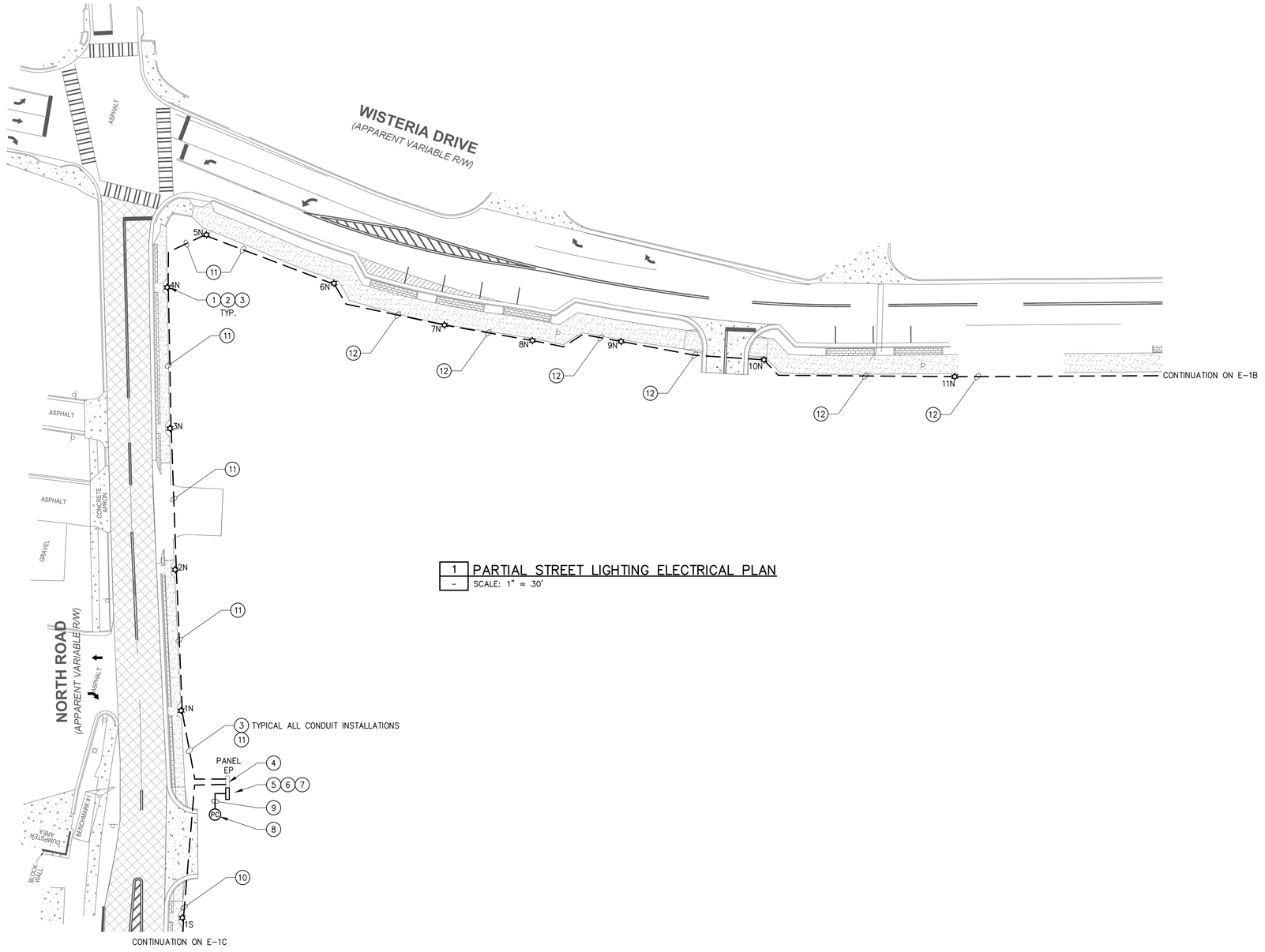
E-01



1 PARTIAL STREET LIGHTING ELECTRICAL PLAN
– SCALE: 1" = 30'

GENERAL NOTES:

1. COORDINATE THE REQUIREMENTS OF THE REMOVAL WORK AND WORK WITH EXISTING POLE LIGHTS WITH NEW INSTALLATIONS AND MINIMIZE DOWN TIME TO EXISTING SYSTEMS THAT SHALL REMAIN.
2. CIRCUITRY SHOWN IS DIAGRAMMATIC. PROVIDE CONDUIT AND CABLES COMPLETE FROM SOURCE TO EQUIPMENT BEING SERVED.
3. PROVIDE BRANCH CIRCUITRY SHOWN ON THIS DRAWING AND ON ELECTRICAL ONE LINE DIAGRAM. PROVIDE HDPE CONDUIT FOR ALL BELOW GROUND INSTALLATIONS. PROVIDE RMC CONDUIT FOR ALL CONDUIT STUB UPS INTO CONCRETE BASES AND IN PARKING DECK AT ELECTRICAL PANEL.
4. INSTALL REINFORCED CONCRETE LIGHT POLE BASES ONE FOOT BEHIND SIDEWALKS UNLESS OTHERWISE NOTED.
5. EXISTING LIGHT POLES SHALL REMAIN UNLESS OTHERWISE DIRECTED FOR RELOCATION BY AN EXISTING CONDITION/REMOVAL CODED NOTE.
6. BRANCH CIRCUITRY IS SIZED TO LIMIT VOLTAGE DROP AT LIGHT FIXTURES AND GFI RECEPTACLES. PROVIDE MEANS TO CONNECT OVER SIZED CONDUCTORS TO LIGHTING CONTACTOR AND TO CIRCUIT BREAKER IN ELECTRICAL PANEL.
7. VOLTAGE DROP CALCULATION FOR LIGHTING IS BASED ON ACTUAL LOAD, VOLTAGE DROP CALCULATION FOR RECEPTACLES ASSUMES LOAD OF 16 AMPS PER CIRCUIT.
8. REFER TO DRAWING E-02 FOR SPECIFIC POLES, LIGHT FIXTURES AND RECEPTACLES SUPPLIED BY EACH CIRCUIT BREAKER.

NEW WORK CODED NOTES

(1) PROVIDE REINFORCED CONCRETE LIGHT POLE BASE AND ANCHOR BOLTS PER DETAIL 2/E-01

(2) PROVIDE TYPE L1 LIGHT POLE AND FIXTURE PER LIGHT FIXTURE SCHEDULE AND DETAIL 1/E-01.

(3) PROVIDE EXCAVATION AND BACKFILL COMPLETE. SITE REPAIRS BY OTHER TRADES.

(4) 208/120 VOLT ELECTRICAL PANEL FURNISHED AND INSTALLED IN PARKING DECK UNDER SEPARATE CONTRACT. UTILIZE (6) 20A/1P TO SUPPLY LIGHT POLES AND (1) 20A/1P CIRCUIT BREAKER TO SUPPLY PHOTOCELL. VERIFY EXACT LOCATION OF PANEL AND CIRCUIT BREAKER NUMBERS ON SITE.

(5) PROVIDE NEMA 3R PULL BOX AT SIDE OF ELECTRICAL PANEL SIZED PER NEC REQUIREMENTS. PROVIDE WITH HINGED COVER AND KEYED LOCK.

(6) PROVIDE LIGHTING CONTACTORS INSIDE PULL BOX.

(7) ROUTE CONDUITS FROM BELOW GROUND TO PULL BOX. CONNECT LIGHTING BRANCH CIRCUITRY TO CONTACTOR. PROVIDE CONDUIT AND WIRING FROM PANEL EP TO CONTACTOR IN PULL BOX. ROUTE GFI BRANCH CIRCUITRY IN CONDUIT TO CIRCUIT BREAKERS IN PANEL.

(8) PROVIDE 120 VOLT PHOTOCELL ON PARKING DECK WALL AT ±20' AFG. PROVIDE SHIELD IF REQUIRED TO PREVENT INADVERTENT ACTUATION FROM STREET LIGHTS AND VEHICLE HEADLIGHTS.

(9) PROVIDE 3/4" C. w/ (2) #12, #12 G. FROM CIRCUIT BREAKER IN PANEL TO PHOTOCELL AND FROM PHOTOCELL TO LIGHTING CONTACTOR IN PULL BOX.

(10) PROVIDE 2" C. w/ (2) #4 FOR LIGHT FIXTURES
(2) #4 FOR GFI RECEPTACLES AT POLES S1-S6.
(2) #2 FOR GFI RECEPTACLES AT POLES S7-S11.
AND PROVIDE #2 EGC.

(11) PROVIDE 2" C. w/ (2) #4 FOR LIGHT FIXTURES
(2) #4 FOR GFI RECEPTACLES AT POLES N1-N6.
(2) #2 FOR GFI RECEPTACLES AT POLES N7-N12.
AND PROVIDE #2 EGC.

(12) PROVIDE 2" C. w/ (2) #4 FOR LIGHT FIXTURES, (2) #2 FOR GFI RECEPTACLES AT POLES N7-N12 AND #2 EGC.

AREA OF WORK

GRAPHIC SCALE (FEET)
1"=30' 0' 30' 60' 90' 120' 150'

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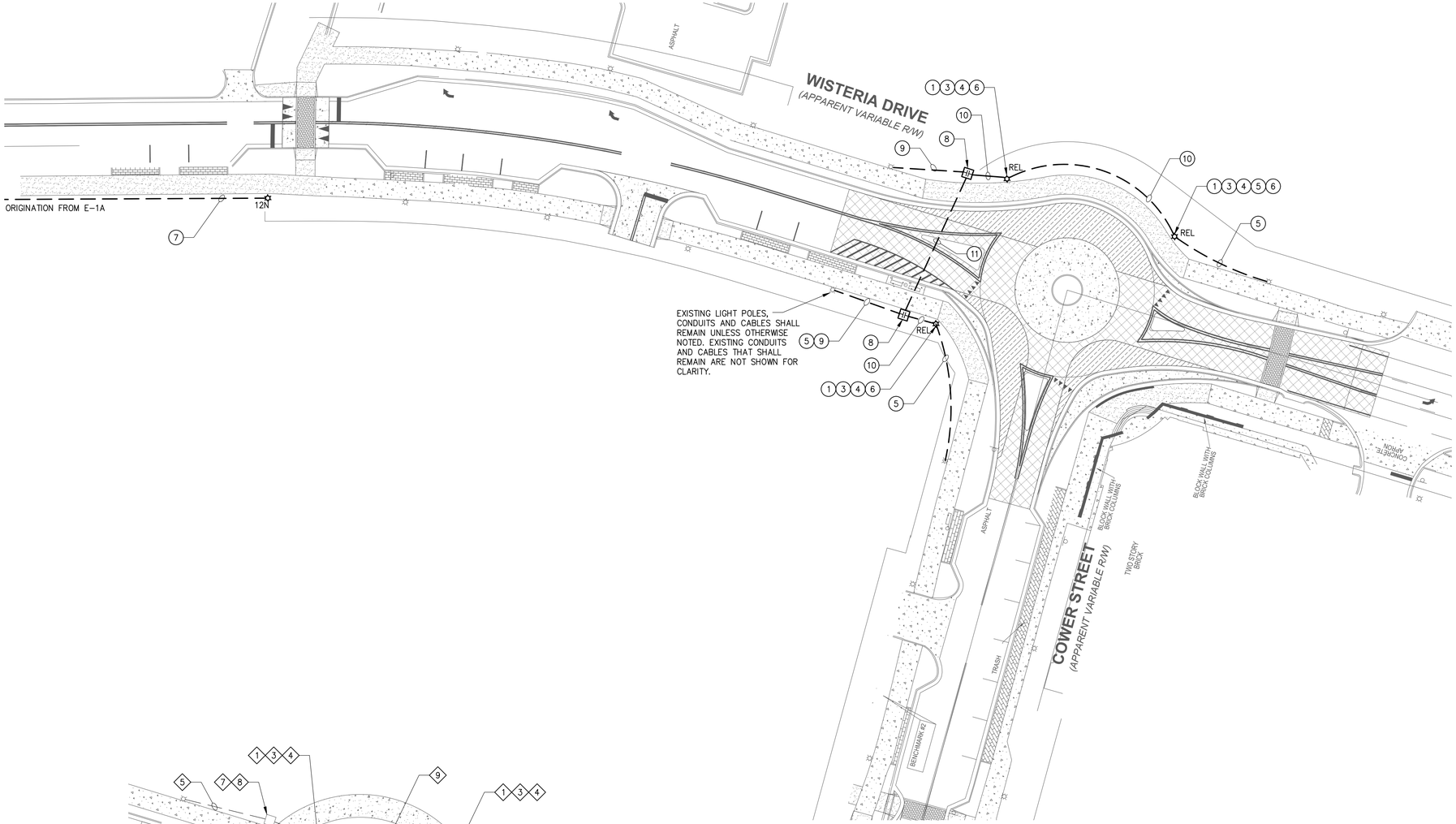
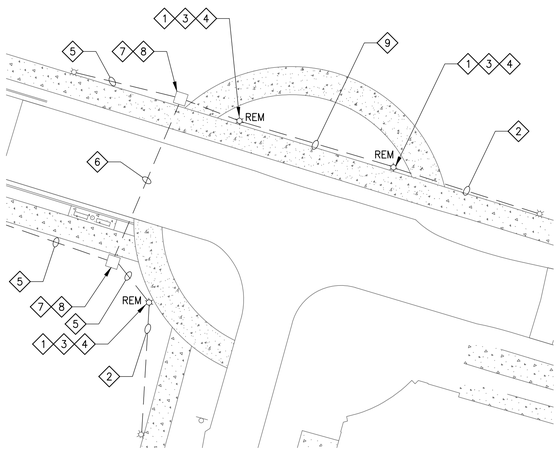


1 PARTIAL STREET LIGHTING ELECTRICAL PLAN
– SCALE: 1" = 30'



2 ELECTRICAL REMOVAL PARTIAL PLAN
– SCALE: 1" = 30'

GENERAL NOTES:

1. COORDINATE THE REQUIREMENTS OF THE REMOVAL WORK AND WORK WITH EXISTING POLE LIGHTS WITH NEW INSTALLATIONS AND MINIMIZE DOWN TIME TO EXISTING SYSTEMS THAT SHALL REMAIN.
2. CIRCUITRY SHOWN IS DIAGRAMMATIC. PROVIDE CONDUIT AND CABLES COMPLETE FROM SOURCE TO EQUIPMENT BEING SERVED.
3. PROVIDE BRANCH CIRCUITRY SHOWN ON THIS DRAWING AND ON ELECTRICAL ONE LINE DIAGRAM. PROVIDE HDPE CONDUIT FOR ALL BELOW GROUND INSTALLATIONS. PROVIDE RMC CONDUIT FOR ALL CONDUIT STUB UPS INTO CONCRETE BASES AND IN PARKING DECK AT ELECTRICAL PANEL.
4. INSTALL REINFORCED CONCRETE LIGHT POLE BASES ONE FOOT BEHIND SIDEWALKS UNLESS OTHERWISE NOTED.
5. EXISTING LIGHT POLES SHALL REMAIN UNLESS OTHERWISE DIRECTED FOR RELOCATION BY AN EXISTING CONDITION/REMOVAL CODED NOTE.
6. BRANCH CIRCUITRY IS SIZED TO LIMIT VOLTAGE DROP AT LIGHT FIXTURES AND GFI RECEPTACLES. PROVIDE MEANS TO CONNECT OVER SIZED CONDUCTORS TO LIGHTING CONTACTOR AND TO CIRCUIT BREAKER IN ELECTRICAL PANEL.
7. VOLTAGE DROP CALCULATION FOR LIGHTING IS BASED ON ACTUAL LOAD, VOLTAGE DROP CALCULATION FOR RECEPTACLES ASSUMES LOAD OF 16 AMPS PER CIRCUIT.
8. REFER TO DRAWING E-02 FOR SPECIFIC POLES, LIGHT FIXTURES AND RECEPTACLES SUPPLIED BY EACH CIRCUIT BREAKER.

EXISTING CONDITION/REMOVAL CODED NOTES:

1. DISCONNECT AND REMOVE LIGHT POLE (REM). REINSTALL POLE AND FIXTURE AT LOCATION SHOWN ON PLAN.
2. REMOVE CABLES BETWEEN LIGHT POLES THAT SHALL REMAIN AND LIGHT POLE SCHEDULED FOR RELOCATION.
3. CUT 2 INCH CONDUITS BELOW GROUND AT EACH SIDE OF CONCRETE BASE.
4. REMOVE CONCRETE BASE AND DISPOSE OF OFF SITE IN A LEGAL MANNER.
5. REMOVE CABLES BETWEEN LIGHT POLES THAT SHALL REMAIN AND HANDHOLE.
6. REMOVE CABLES BETWEEN HANDHOLES.
7. CUT 2 INCH CONDUITS BELOW GROUND AT SIDES OF HANDHOLE.
8. REMOVE AND DISPOSE OF HANDHOLE. PROVIDE NEW HANDHOLE AT LOCATION SHOWN ON 1/E-1B.
9. REMOVE AND DISPOSE OF CONDUIT AND CABLES.

NEW WORK CODED NOTES

1. PROVIDE REINFORCED CONCRETE LIGHT POLE BASE AND ANCHOR BOLTS PER DETAIL 2/E-01
2. PROVIDE TYPE L1 LIGHT POLE AND FIXTURE PER LIGHT FIXTURE SCHEDULE AND DETAIL 1/E-01.
3. PROVIDE EXCAVATION AND BACKFILL COMPLETE. SITE REPAIRS BY OTHER TRADES.
4. INSTALL REMOVED LIGHT POLE (REL) AT THIS LOCATION.
5. MODIFY AND EXTEND EXISTING 2 INCH CONDUITS TO NEW LIGHT POLE LOCATION AS REQUIRED BY SITE CONDITIONS.
6. PROVIDE NEW WIRING IN CONDUIT TO MATCH EXISTING AWG SIZE AND INSULATION TYPE OF REMOVED CABLES.
7. PROVIDE 2" C. w/ (2) #4 FOR LIGHT FIXTURES, (2) #2 FOR GFI RECEPTACLES AT POLES N7-N12 AND #2 EGC.
8. PROVIDE HANDHOLE PER DETAIL 4/E-01
9. MODIFY AND EXTEND EXISTING 2 INCH CONDUITS TO NEW HANDHOLE LOCATION AS REQUIRED BY SITE CONDITIONS.
10. PROVIDE 2" C. AND WIRING TO MATCH EXISTING AWG SIZE AND INSULATION TYPE OF REMOVED CABLES.
11. PROVIDE 2" C. AND WIRING TO MATCH EXISTING AWG SIZE AND INSULATION TYPE OF REMOVED CABLES. PROVIDE SPARE 2" C. WITH PULL WIRE.

AREA OF WORK

GRAPHIC SCALE (FEET)
1"=30' 0' 30' 60' 90' 120' 150'

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BY: CITY OF SNELLVILLE

REVISIONS	BY

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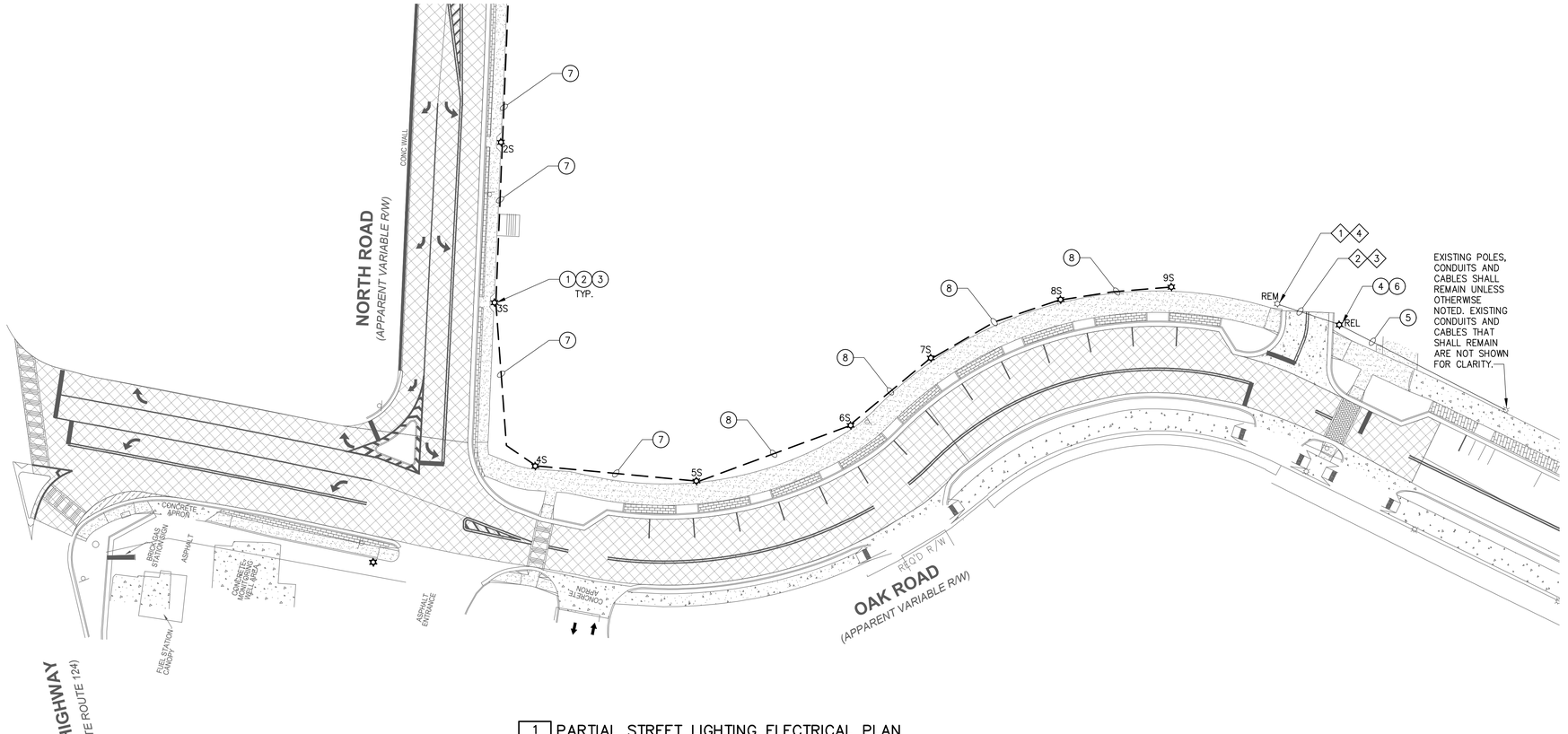

1 PARTIAL STREET LIGHTING ELECTRICAL PLAN
– SCALE: 1" = 30'

GRAPHIC SCALE (FEET)
1"=30' 0' 30' 60' 90' 120' 150'

AREA OF WORK

GENERAL NOTES:

1. COORDINATE THE REQUIREMENTS OF THE REMOVAL WORK AND WORK WITH EXISTING POLE LIGHTS WITH NEW INSTALLATIONS AND MINIMIZE DOWN TIME TO EXISTING SYSTEMS THAT SHALL REMAIN.
2. CIRCUITRY SHOWN IS DIAGRAMMATIC. PROVIDE CONDUIT AND CABLES COMPLETE FROM SOURCE TO EQUIPMENT BEING SERVED.
3. PROVIDE BRANCH CIRCUITRY SHOWN ON THIS DRAWING AND ON ELECTRICAL ONE LINE DIAGRAM. PROVIDE HDPE CONDUIT FOR ALL BELOW GROUND INSTALLATIONS. PROVIDE RMC CONDUIT FOR ALL CONDUIT STUB UPS INTO CONCRETE BASES AND IN PARKING DECK AT ELECTRICAL PANEL.
4. INSTALL REINFORCED CONCRETE LIGHT POLE BASES ONE FOOT BEHIND SIDEWALKS UNLESS OTHERWISE NOTED.
5. EXISTING LIGHT POLES SHALL REMAIN UNLESS OTHERWISE DIRECTED FOR RELOCATION BY AN EXISTING CONDITION/REMOVAL CODED NOTE.
6. BRANCH CIRCUITRY IS SIZED TO LIMIT VOLTAGE DROP AT LIGHT FIXTURES AND GFI RECEPTACLES. PROVIDE MEANS TO CONNECT OVER SIZED CONDUCTORS TO LIGHTING CONTACTOR AND TO CIRCUIT BREAKER IN ELECTRICAL PANEL.
7. VOLTAGE DROP CALCULATION FOR LIGHTING IS BASED ON ACTUAL LOAD, VOLTAGE DROP CALCULATION FOR RECEPTACLES ASSUMES LOAD OF 16 AMPS PER CIRCUIT.
8. REFER TO DRAWING E–02 FOR SPECIFIC POLES, LIGHT FIXTURES AND RECEPTACLES SUPPLIED BY EACH CIRCUIT BREAKER.

EXISTING CONDITION/REMOVAL CODED NOTES:

1. DISCONNECT AND REMOVE LIGHT POLE (REM). REINSTALL POLE AND FIXTURE AT LOCATION SHOWN ON PLAN.
2. REMOVE CABLES BETWEEN LIGHT POLES THAT SHALL REMAIN AND LIGHT POLE SCHEDULED FOR RELOCATION.
3. CUT 2 INCH CONDUITS BELOW GROUND AT EACH SIDE OF CONCRETE BASE.
4. REMOVE CONCRETE BASE AND DISPOSE OF OFF SITE IN A LEGAL MANNER.

NEW WORK CODED NOTES

1. PROVIDE REINFORCED CONCRETE LIGHT POLE BASE AND ANCHOR BOLTS PER DETAIL 2/E–01
2. PROVIDE TYPE L1 LIGHT POLE AND FIXTURE PER LIGHT FIXTURE SCHEDULE AND DETAIL 1/E–01.
3. PROVIDE EXCAVATION AND BACKFILL COMPLETE. SITE REPAIRS BY OTHER TRADES.
4. INSTALL REMOVED LIGHT POLE (REL) AT THIS LOCATION.
5. MODIFY AND EXTEND EXISTING 2 INCH CONDUITS TO NEW LIGHT POLE LOCATION AS REQUIRED BY SITE CONDITIONS.
6. PROVIDE NEW WIRING IN CONDUIT TO MATCH EXISTING AWG SIZE AND INSULATION TYPE OF REMOVED CABLES.
7. PROVIDE 2" C. w/ (2) #4 FOR LIGHT FIXTURES
   (2) #4 FOR GFI RECEPTACLES AT POLES S1–S6.
   (2) #2 FOR GFI RECEPTACLES AT POLES S7–S11.
   AND PROVIDE #2 EGC.
8. PROVIDE 2" C. w/ (2) #4 FOR LIGHT FIXTURES, (2) #2 FOR GFI RECEPTACLES AT POLES S7–S11 AND #2 EGC.

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E–1C

GENERAL DRAWING NOTES:

A. THE ELECTRICAL SERVICE AND DISTRIBUTION PANELS IN THE PARKING DECK SHALL BE FURNISHED AND INSTALLED UNDER A SEPARATE CONTRACT.

B. NOT ALL EXISTING ELECTRICAL EQUIPMENT IN THE PARKING DECK IS SHOWN ON THIS DIAGRAM FOR CLARITY. ALL EXISTING EQUIPMENT AND FEEDERS SHALL REMAIN IN PLACE AND OPERATIONAL UNLESS OTHERWISE REQUIRED TO SAFELY EXECUTE THE SCOPE OF WORK FOR THIS PROJECT.

C. NOTIFY THEE OWNER'S REPRESENTATIVE IN WRITING, ONE WEEK IN ADVANCE OF ANY INTERRUPTIONS TO THE ELECTRICAL SERVICE AND/OR TO THE EXISTING DISTRIBUTION SYSTEMS.

D. COORDINATE WITH AND OBTAIN WRITTEN PERMISSION FROM AN AUTHORIZED REPRESENTATIVE OF THE OWNER PRIOR TO ANY INTERRUPTION OF POWER TO THE EXISTING ELECTRICAL DISTRIBUTION SYSTEMS.

E. REFER TO ELECTRICAL SITE PLANS FOR LIGHT POLE LOCATIONS AND FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

F. NEUTRAL CONDUCTORS ARE NOT SHOWN ON THIS DIAGRAM FOR CLARITY.

ELECTRICAL LOAD CALCULATIONS:

SUMMARY OF LOADS ADDED TO NEW ELECTRICAL SERVICE AT PARKING DECK:

(23) 65 WATT POLE MOUNTED LIGHT FIXTURES – 1495 TOTAL WATTS – 12.5 AMPS @ 120 VOLTS

(23) GFI RECEPTACLES – 180 VA PER RECEPTACLE – 4.14 kVA – 11.5 AMPS @ 208V 3ø

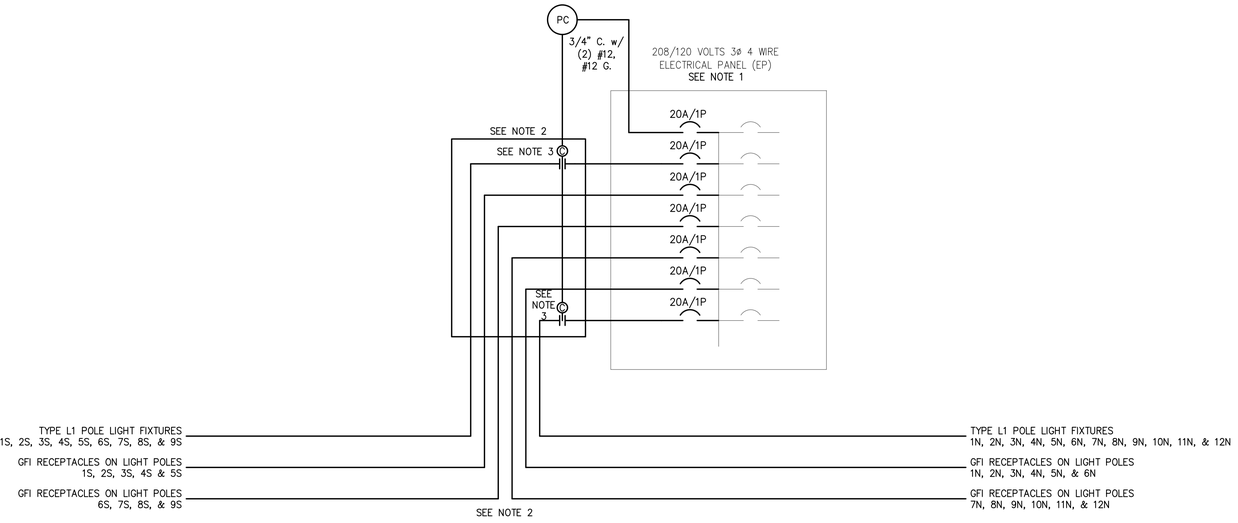
LINE TYPE LEGEND:

LIGHT CONTINUOUS LINES INDICATE EQUIPMENT PROVIDED UNDER SEPARATE CONTRACT

DARK PHANTOM LINES INDICATE NEW EQUIPMENT, RACEWAYS, CABLES, ETC. TO BE PROVIDED BY THIS PROJECTS ELECTRICAL CONTRACTOR

ELECTRICAL ONE LINE DIAGRAM NOTES:

1. THE EXISTING 208/120 VOLT ELECTRICAL PANEL (EP) SHALL BE FURNISHED AND INSTALLED UNDER A SEPARATE CONTRACT WITH (7) 20A/1P CIRCUIT BREAKERS RESERVED TO SUPPLY THE STREET LIGHT POLE, GFI RECEPTACLES AND PHOTOCELL. VERIFY LOCATIONS AND CIRCUIT BREAKERS DESIGNATED FOR LIGHT POLES ON SITE.
2. PROVIDE LIGHT POLES, CONCRETE BASE, CONDUIT, AND WIRING COMPLETE AS SHOWN AND NOTED ON SITE ELECTRICAL PLANS AND DETAILS.
3. PROVIDE NEMA 3R PULL BOX WITH HINGED COVER AND KEYED LOCK SIZED PER NEC REQUIREMENTS.
4. PROVIDE 20 AMP, 120 VOLT, SINGLE POLE LIGHTING CONTACTOR WITH 120 VOLT COIL. INSTALL ON DIN RAILS IN PULL BOX.
5. PROVIDE 120 VOLT PHOTOCELL ON OUTSIDE BUILDING WALL TO CONTROL POLE LIGHT FIXTURES.



1 – ELECTRICAL ONE LINE DIAGRAM
SCALE: NO TO SCALE

ELECTRICAL MATERIALS LIST

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY
681–4155	STREET LIGHT LIGHT POLE WITH GFI RECEPTACLE, BANNER POST, AND ANCHOR BOLTS	EA	21
681–6306	LUMINAIRE, TP3, 65W, LED	EA	21
681–4361	REMOVE AND RELOCATE LIGHT POLES	EA	4
610–6060	REMOVE AND DISPOSE OF HANDHOLES	EA	2
–	5/8"x 10' COPPER CLAD STEEL GROUND ROD	EA	25
681–1406A	#6 AWG BARE COPPER WIRE	LF	250
–	CADWELD CONNECTION	EA	25
–	COMPRESSION CONNECTION #6AWG BCW TO REBAR	EA	25
682–9950	EXCAVATION AND BACK FILL – TRENCH 1 FOOT WIDE x 3 FEET DEEP	LF	1800
682–6222	2" HDPE CONDUIT	LF	2000
682–1407	#4 XHHN BUILDING WIRE	LF	6000
682–1408	#2 XHHN BUILDING WIRE	LF	6000
682–9021	HANDHOLES WITH COVER	EA	2
682–9020	NEMA 3R PULL BOX WITH HINGED COVER AND KEYED LOCK	EA	1
–	20 AMP, 120 VOLT, 1–POLE LIGHTING CONTACTOR	EA	2
–	20 AMP, 120 VOLT PHOTOCELL	EA	1

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GWINNETT COUNTY TRAFFIC SIGNAL GENERAL NOTES

1. THE COMPLETE SIGNAL INSTALLATION SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, INCLUDING SUBSEQUENT PUBLISHED RULINGS.

2. ALL MATERIALS AND WORK SHALL BE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS FOR TRAFFIC SIGNAL INSTALLATION (WITH EXCEPTIONS AS DIRECTED BY THESE PLANS OR GWINNETT COUNTY D.O.T (GCDOT)). INSTALLATION SHALL MEET CURRENT NFPA, NATIONAL ELECTRICAL CODE, AND ANSI NATIONAL ELECTRICAL SAFETY CODE.

3. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO GCDOT, ATTN: TRAFFIC SIGNAL ENGINEER.

4. CONTRACTOR SHALL SUBMIT LOAD CALCULATIONS, SHOP DRAWINGS AND FOUNDATION DIMENSIONS OF POLES AND CATALOG CUTS OF PROPOSED SIGNAL EQUIPMENT AND ELECTRICAL/LINE HARDWARE MATERIALS TO THE TRAFFIC SIGNAL ENGINEER FOR APPROVAL.

5. FOR STRAIN POLE FOUNDATION SIZE AND REINFORCEMENT, SEE STRAIN POLE AND MAST ARM POLE FOUNDATION SHEET.

6. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN THE VICINITY OF NEW TRAFFIC SIGNAL POLES BEFORE INSTALLATION. MINOR SHIFTS (UP TO A MAXIMUM OF 5 FEET) IN LOCATION OF NEW SIGNAL POLES, AT THE DISCRETION OF THE ENGINEER, ARE ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. MINIMUM CLEARANCES FROM EDGE OF PAVEMENT SHALL BE MAINTAINED. PLACEMENT OF THE SIGNAL HEADS MUST BE RETAINED AS SHOWN ON THE PLANS.

7. SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 17 FEET BUT NO MORE THAN 19 FEET CLEARANCE FROM BOTTOM OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND A MINIMUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL FACES.

8. PROVIDE A MINIMUM OF 10 FEET CLEARANCE BETWEEN POWER LINES AND MAST ARMS. RAISE POWER LINES IF NECESSARY.

9. WHEN APPLICABLE TO THE PLANS, THE CONTRACTOR MUST INSTALL AND TEST ALL NEW SIGNAL ITEMS PRIOR TO REMOVING EXISTING SIGNALS FROM SERVICE.

10. WHEN APPLICABLE TO THE PLANS, CONTRACTOR WILL BE REQUIRED TO PROVIDE A NEW RISER, CONDUIT, CONDUCTORS AND DISCONNECT TO PROVIDE POWER SERVICE INTO THE CONTROLLER CABINET.

11. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING POLES WHEN ATTACHING SPAN WIRE OR FIBER OPTIC INTERCONNECT CABLE TO THE POLES, WHEN REQUIRED, AS DIRECTED BY THE ENGINEER.

12. SHIELDED CABLE SHALL BE USED FOR DETECTOR RUNS, AS SHOWN ON THE DETAIL SHEET. DETECTORS SALL HAVE SEPERATE LEAD-INS TO THE CONTROLLER CABINET. LOOP AND PEDESTRIAN DETECTOR CABLES SHALL BE 14 AWG IMSA 50-2 3-PAIR EQUIVALENT CABLE.

13. CONDUIT UNDER DRIVEWAYS AND ROADWAYS SHALL BE TYPE 3 (SDR 11 HDPE), RIGID METAL OR ENCASED IN CONCRETE. ALL CONDUIT RUNS GREATER THAN 50 FEET IN LENGTH SHALL BE BURIED TO A MINIMUM DEPTH OF 48 INCHES. UNLESS APPROVED BY THE ENGINEER.

14. WHEN APPLICABLE TO THE PLANS, DETECTABLE MARKING TAPE LABELED "GWINNETT DOT CALL (770) 822-7474" SHALL BE INSTALLED DIRECTLY ABOVE ALL UNDERGROUND CONDUIT CONTAINING FIBER OPTIC INTERCONNECT CABLE. AN INSULATED TRACING WIRE, GROUNDED ON ONE END, SHALL BE INSTALLED INSIDE A CONDUIT SEPARATE FROM THE FIBER OPTIC INTERCONNECT CABLE.

15. SIGNAL HEADS ON MAST ARMS SHALL HAVE BACK PLATES AND BE RIGID MOUNTED.

16. VEHICLE AND PEDESTRIAN SIGNAL HEADS AND HARDWARE SHALL BE ALL BLACK IN COLOR. VEHICLE SIGNAL HEADS SHALL HAVE TUNNEL VISORS AND SHALL BE MADE OF POLYCARBONATE MATERIAL. VEHICLE SIGNAL HEADS SHALL BE EQUIPPED WITH LED MODULES.

17. PEDESTRIAN SIGNAL HEADS ATTACHED TO PEDESTAL POLES AND STEEL STRAIN POLES SHALL BE MOUNTED WITH "CLAMSHELL" TYPE BRACKET ASSEMBLIES. ALL PEDESTRIAN SIGNAL HEADS ATTACHED TO CONCRETE STRAIN POLES SHALL BE MOUNTED WITH ONE-WAY SIDE-OF-POLE POLYCARBONATE BRACKETS. PEDESTRIAN SIGNAL HEADS SHALL BE EQUIPPED WITH COUNTDOWN, UNIFORM APPEARANCE, FULL HAND/MAN/NUMERAL LED MODULES.

18. PUSHBUTTON STATIONS THAT ARE INSTALLED ON A PEDESTAL POLE FOR TWO PERPENDICULAR CROSSINGS SHALL BE MOUNTED ON A DOUBLE PUSHBUTTON STATION ADAPTER. PEDESTRIAN PUSHBUTTONS SHALL BE INSTALLED WITHIN 10" OF SIDEWALK WITH SIGN ARROW INDICATING THE CROSSING DIRECTION. PEDESTRIAN PUSHBUTTONS SHALL BE VANDAL RESISTANT WITH A PIEZO SWITCH, LED INDICATION AND AUDIBLE FEEDBACK.

19. ONLY THE MODELS OF VEHICLE SIGNAL MODULES, PEDESTRIAN SIGNAL MODULES, AND PUSHBUTTONS THAT HAVE BEEN TESTED AND PRE-APPROVED BY GCDOT SHALL BE USED. CONTACT GCDOT FOR A LIST OF APPROVED ITEMS OR TO SUBMIT ITEMS FOR TESTING AND APPROVAL, AT (770) 822-7474.

20. ONE 7-CONDUCTOR, 14 AWG, STRANDED CABLE AND ONE 3-PAIR DETECTOR CABLE FOR PROPOSED AND FUTURE PEDESTRIAN SIGNALS SHALL BE INSTALLED AT EACH STRAIN POLE. A MINIMUM OF ONE 7-CONDUCTOR, 14 AWG, STRANDED SIGNAL CABLE FOR PROPOSED AND FUTURE VEHICLES SIGNALS SHALL BE INSTALLED ON ALL FOUR SIDES OF THE INSTALLATION.

21. HOT DIP GALVANIZED WELDLESS RINGS SHALL BE USED FOR SPAN WIRE JUNCTIONS. GUY ANCHORS SHALL BE GALVANIZED.

22. GCDOT WILL BE RESPONSIBLE FOR PROGRAMMING OF SIGNAL TIMING AND "TURN-ON" OF ALL NEW SIGNALS.

23. GCDOT IS ON THE ONE-CALL SYSTEM. CALL 811 WHEN LOCATING UTILITIES FOR CONSTRUCTION. FOR EMERGENCY LOCATES CALL 811 AND (770) 822-8839.

24. ALL CAT-5 CABLES SHALL BE PROVIDED BY THE CONTRACTOR FOR EACH ETHERNET DEVICE.

25. ALL FIBER JUMPERS ARE INCIDENTAL TO THE SWITCH.

26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING EXISTING FIBER AND MAINTAINING ITS OPERATIONS.

27. ALL SPLICES OF FIBER OPTIC CABLE UNDER THIS CONTRACT SHALL BE FUSION SPLICES. UNLESS OTHERWISE SPECIFICALLY NOTED IN EACH INSTANCE OR DIRECTED BY THE ENGINEER. NO IN-LINE SPLICES SHALL BE MADE IN ANY CABLE.

28. THE CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNALS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC SIGNAL AND/OR CONTROL SYSTEM ADJUSTMENTS, INCLUDING TEMPORARY SUPPORT POLE LOCATION(S) REQUIRED BY THE PROJECT DURING THE INTERIM PERIOD THROUGH INSTALLATION OF NEW SIGNAL EQUIPMENT. AT NO TIME SHALL THE CONTRACTOR CAUSE ANY PART OF THE SIGNAL OPERATION TO BE INOPERABLE.

29. ENSURE ALL DETECTION IS INSTALLED PROMPTLY. FAILURE TO DO SO WILL RESULT IN DELAY OF THE ACTIVATION OF THE NEW TRAFFIC SIGNAL INSTALLATION.

30. LOOP DETECTOR UNIT SHALL ENERGIZE ITS INDIVIDUAL LOOP CHANNELS NONCONCURRENTLY. DETECTOR UNIT SHALL BE FAIL SAFE (PROVIDE A CONSTANT CALL TO THE CONTROLLER IF LOOP FAILURE OCCURS).

31. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY RELOCATION OR DAMAGE TO GCDOT TRAFFIC SIGNAL OR ATMS INFRASTRUCTURE (LOOP, LEAD-IN, FIBER OPTICS, CONDUIT, PULLBOX, ETC.) DUE TO CONSTRUCTION ACTIVITIES AND MUST USE A GCDOT APPROVED CONTRACTOR TO PERFORM ANY WORK ON SAID INFRASTRUCTURE. NOTIFY GCDOT AT 678-639-8800 OF ANY ACTIVITY.

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REVISION DATES
10/7/2021

SIGNAL PLANS
WISTERIA DRIVE @ NORTH ROAD
GCDOT SIGNAL #201
INTERSECTION IMPROVEMENTS
PHASE 2

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

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LEGEND - TRAFFIC SIGNALS

EXISTING

- CONTROLLER CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION HEAD
- 3 SECTION HEAD W/BACKPLATE
- 4 SECTION HEAD
- 4 SECTION HEAD W/BACKPLATE
- 4/5 SECTION (CLUSTER/T-SHAPE) HEAD
- 4/5 SECTION (CLUSTER/T-SHAPE) HEAD W/BACKPLATE
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL HEAD
- CURB CUT RAMP, ALL TYPE
- PULLBOX, (TYPE TO BE CALLED OUT)
- 6X6 PULSE LOOP
- 6X18 CALL LOOP
- 6X40 PRESENCE LOOP (DIPOLE)
- 6X40 PRESENCE LOOP (QUADRUPOLE)
- CONDUIT, ALL TYPE
- RAILROAD CONTROLLER
- SIGN POST

PROPOSED

- CONTROLLER CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION HEAD W/BACKPLATE
- 4 SECTION HEAD W/BACKPLATE
- 4/5 SECTION (CLUSTER/T-SHAPE) HEAD W/BACKPLATE
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL HEAD
- CURB CUT RAMP, (TYPE TO BE CALLED OUT)
- PB PULLBOX, (TYPE TO BE CALLED OUT)
- 6X6 PULSE LOOP
- 6X18 CALL LOOP
- 6X40 PRESENCE LOOP (DIPOLE)
- 6X40 PRESENCE LOOP (QUADRUPOLE)
- CONDUIT, (TYPE TO BE CALLED OUT)
- CONDUIT, DIRECTIONAL BORE
- RAILROAD CONTROLLER CABINET
- SIGN POST
- RADAR DETECTION DEVICE
- MAGNETOMETER DETECTION DEVICE
- VIDEO DETECTION DEVICE
- VIRTUAL DETECTION ZONE (RADAR, VIDEO, ETC.)

RELOCATED

- 3 SECTION HEAD W/BACKPLATE
- 4 SECTION HEAD W/BACKPLATE
- 4/5 SECTION (CLUSTER/T-SHAPE) HEAD W/BACKPLATE

AGENCY SPECIFIC

- PROPERTY LINE
- EXIST. R/W — EXISTING R/W LINE
- REQ'D R/W — REQUIRED R/W LINE
- -----C---------C CONSTRUCTION CUT LIMIT
- -----F---------F CONSTRUCTION FILL LIMIT
- EASEMENT FOR CONTRUCTION & MAINTENANCE OF SLOPES
- EASEMENT FOR CONSTR OF SLOPES
- EASEMENT FOR CONSTR OF DRIVES
- BLA BEGIN LIMIT OF ACCESS
- ELA END LIMIT OF ACCESS
- REQ'D LIMIT OF ACCESS
- REQ'D LIMIT OF ACCESS & R/W
- ORANGE BARRIER FENCE
- ESA - ENV. SENTITIVE AREA (SEE ERIT TABLE)

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WISTERIA DRIVE @ NORTH ROAD
GCDOT SIGNAL #201
INTERSECTION IMPROVEMENTS
PHASE 2

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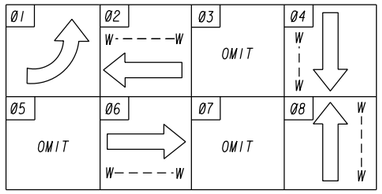
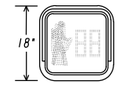
10/23/2015 GPLN

PHASING DIAGRAM

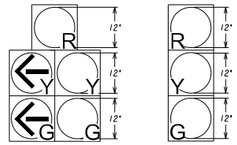


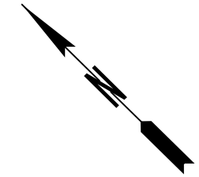
PEDESTRIAN HEADS

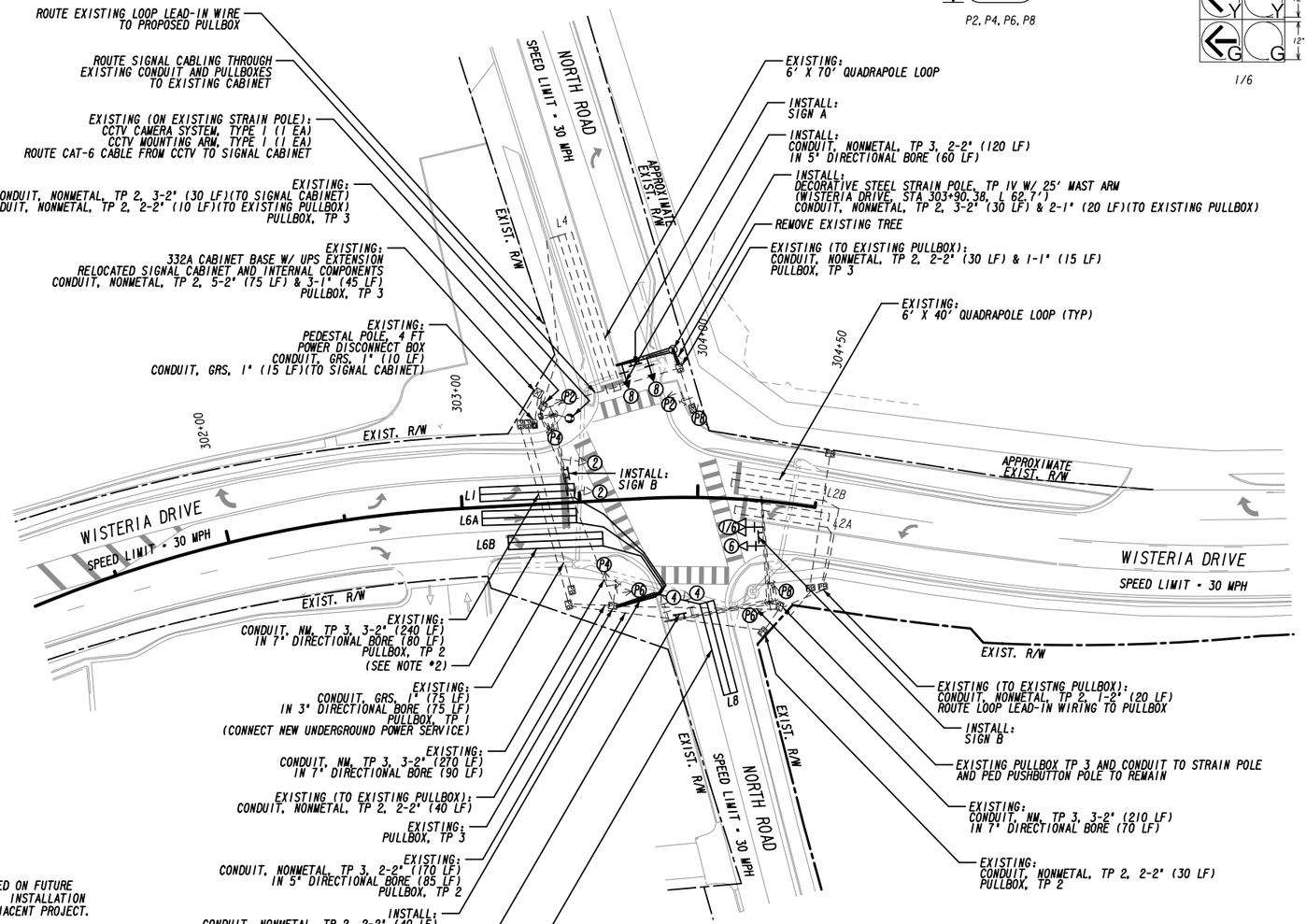


P2, P4, P6, P8

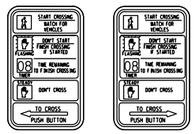
LED SIGNAL HEADS WITH 2" RETRO-REFLECTIVE BORDER ON BACKPLATE







PEDESTRIAN SIGNS



R10-3E(L)
9" X 15"

R10-3E(R)
9" X 15"

NOTES:
1. LANE CONFIGURATION OF WISTERIA DRIVE WEST OF INTERSECTION BASED ON FUTURE INTERSECTION IMPROVEMENT PROJECT FOR SR 124 & WISTERIA DRIVE. INSTALLATION OF PH 1 AND PH 6 LOOPS TO OCCUR AFTER FINAL PAVING FOR THE ADJACENT PROJECT.
2. RIGHT-OF-WAY LIMITS AT THE SOUTHEAST INTERSECTION QUADRANT ARE BASED ON SITE DEVELOPMENT PLANS BY CHA, APRIL 2021 REVISION, FOR THE TOWNCENTER ROADWAY IMPROVEMENTS PROJECT. RIGHT-OF-WAY LIMITS AT THE NORTHEAST INTERSECTION QUADRANT BASED EXISTING RIGHT-OF-WAY LIMITS AS SHOWN IN SIGNAL DESIGN PLANS BY LOWE ENGINEERS, DATED 12-31-2014.
3. CONTRACTOR SHALL COORDINATE WITH THE CITY OF SNELLVILLE PRIOR TO ORDERING SIGNAL EQUIPMENT TO VERIFY DECORATIVE/FLUTED EQUIPMENT DETAILS.
4. CONTRACTOR SHALL PROVIDE SUBMITTALS TO BOTH THE CITY OF SNELLVILLE AND GWINNETT COUNTY FOR APPROVAL OF ALL SIGNAL EQUIPMENT.
5. ALL STRAIN POLES, MAST ARMS, LUMINAIRE ARMS, VEHICULAR/PEDESTRIAN SIGNAL HOUSING & ALL HARDWARE TO BE MANUFACTURED WITH SMOOTH BLACK FINISH.

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ILLUMINATED OVERHEAD STREET NAME SIGNS

Wisteria Dr — SIGN A

North Rd — SIGN B

SIGNAL LEGEND

- PROPOSED SIGNAL HEAD
- PROPOSED 4-SECTION SIGNAL HEAD
- EXISTING SIGNAL HEAD
- PROPOSED 5-SECTION OR 4-SECTION SIGNAL HEAD
- RELOCATED SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD

DETECTION LEGEND

- PROPOSED INDUCTANCE LOOP
- PROPOSED VIRTUAL DETECTION ZONE
- PROPOSED VIDEO DETECTION CAMERA
- PROPOSED MAGNETOMETER
- PROPOSED RADAR

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30 0 30 60 90FT.
SCALE: 1" = 30'

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SIGNAL PLANS
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GCDOT SIGNAL #201
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PHASE 2

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LIST OF MATERIALS

MATERIALS	UNIT	QUANTITY
CONTROLLER CABINET ASSEMBLIES		
F. SWITCH PACK	EA	1
H. LOOP DETECTOR, 2-CHANNEL	EA	1
332 PREFABRICATED CONTROLLER CABINET BASE W/ UPS EXTENSION	EA	1
LOOP LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT) 3 PAIR, 14 AWG	REEL	1
SIGNAL CABLE (14 AWG) 7 CONDUCTOR, PER 1000 FT.	REEL	2
LOOP DETECTOR WIRE (14 AWG, STRANDED/1000 FT)	REEL	2
ONE-WAY, 3-SECTION, 12" LED (5MW) SIGNAL HEAD	EA	2
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, W/ 2" RETRO REFLECTIVE TAPE	EA	2
HARDWARE FOR MAST ARM MOUNTING	EA	2
LOOP SAW CUT	LF	650
CONDUIT, 1"	LF	20
CONDUIT, 2"	LF	70
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP

LIST OF MATERIALS IS "FOR INFORMATION ONLY"
AND SHOULD BE VERIFIED BY THE CONTRACTOR.

PAY ITEMS

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
150-1000	TRAFFIC CONTROL - SIGNAL 1	LUMP	LUMP
500-3800	CLASS A CONCRETE, INCL REINF STEEL	CY	2
639-3004	STEEL STRAIN POLE, TP IV - WITH 25 FT MAST ARM, SMOOTH BLACK FINISH, FLUTED	EA	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 1	LUMP	LUMP
647-3000	INTERNALLY ILLUMINATED STREET SIGN	EA	4
647-3100	INTERNALLY ILLUMINATED STREET NAME SIGN CONTROL ASSEMBLY	EA	1

332 CABINET INPUT ASSIGNMENT

SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14

UPPER INPUT FILE

	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2-CH	2-CH			2-CH	2-CH						DC ISO	DC ISO	DC ISO
CHANNEL 1	CI PIN	56	39	63	47	58	41	65	49	60		80	67	68	81
	FUNCTION	L1	L2A				L4					ADVANCE	Ø2 PED	Ø6 PED	FLASH
	FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C
CHANNEL 2	CI PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
	FUNCTION		L2B									ENABLE	Ø4 PED	Ø8 PED	STOP TIME
	FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C

LOWER INPUT FILE

	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2-CH	2-CH			2-CH	2-CH								
CHANNEL 1	CI PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
	FUNCTION		L6A				L8						EVA	EVB	RR 1
	FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12
CHANNEL 2	CI PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
	FUNCTION		L6B									SPARE 3	EVC	EVD	RR 2
	FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12

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GCDOT SIGNAL #201
INTERSECTION IMPROVEMENTS
PHASE 2

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VERIFIED:		DATE:	

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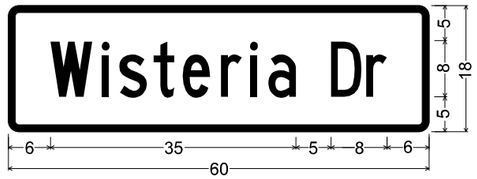
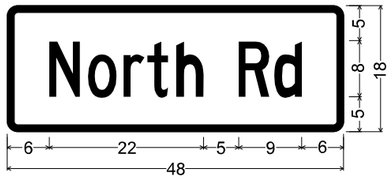
DETAILS OF ILLUMINATED OVERHEAD STREET NAME SIGNS

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.



SIGN A



SIGN B

GENERAL NOTES FOR OVERHEAD ILLUMINATED STREET NAME SIGNS:

1. SIGNS SHALL BE DOUBLE FACED

2. EACH SIGN SHALL CONTAIN A MINIMUM OF (2) HANGERS OR BRACKETS.USE ASTRO MINI-BRACS OR APPROVED EQUAL FOR INSTALLATION. INSTALL BRACKETS PER MANUFACTURERS RECOMMENDED PROCEDURES

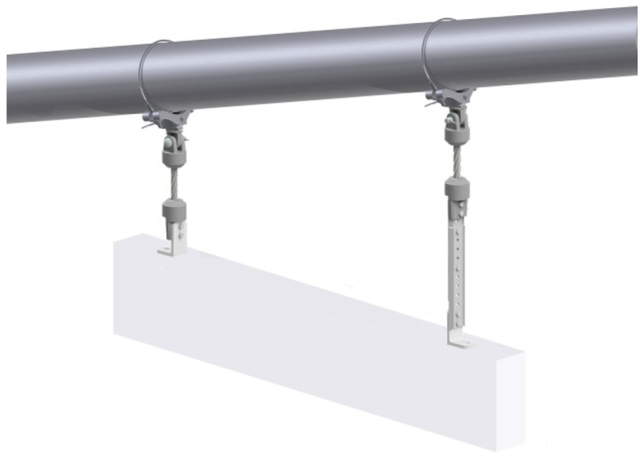
3. ALL SIGN LEGENDS SHALL BE 8-IN. UPPER CASE AND LOWER CASE SERIES "D" LETTERS. ALL ARROWS SHALL BE 8-IN. TALL & 12-IN. LONG.

4. EACH SIGN SHALL CONTAIN 1 1/2-IN. RADII AND HAVE A 1-IN. BORDER. NOT HAVE HOSE CLAMPS.

5.ALL BRACKETS AND HARDWARE SHALL BE SUPPLIED BY THE SIGN MANUFACTURER. BRACKETS SHALL BE OF THE ASTRO BRACKET TYPE AND

6.TERMINATION BOXES SHALL BE SUPPLIED BY THE SIGN MANUFACTURER.

DOUBLE FACED ILLUMINATED STREET NAME SIGN PREFERRED MOUNTING



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REVISION DATES		
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SIGNAL PLANS

WISTERIA DRIVE @ NORTH ROAD
INTERSECTION IMPROVEMENTS
STREET NAME SIGN DETAILS & QUANTITIES

CHECKED:		DATE:		DRAWING No.
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VERIFIED:		DATE:		

10/23/2015 GPLN