APPENDIX A-1. Site Development Application for DRT Submittal

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Case #: _____

City of Auburn

SITE DEVELOPMENT APPLICATION FOR DRT SUBMITTAL

ENGINEERING SERVICES DEPARTMENT
161 North Ross Street
Auburn, AL 36830
(334) 501-7390 ~ Fax: (334) 501-7294

Applicant Name: _____ Project Name: _____

Mailing Address: _____ Site Address: _____

_____ Phone Number: _____

Engineer's Email Address: _____

Please provide any additional email addresses below, for people who should be copied on the DRT comments letter:

_____

A COPY OF THE DEED TO THE SUBJECT PROPERTY MUST BE SUBMITTED WITH THIS APPLICATION. If the applicant is not the owner, then a letter allowing the applicant to act as an "authorized agent" must be on file. All associated fees will be charged to the applicant unless otherwise arranged.

General Location: _____

Gross Area of Subject Property: _____ Number of Individual Units (If residential): _____

Current Use: _____ Current Zoning District: _____

Proposed Use: _____

Is the proposed development to be on an existing lot of record? ☐ Yes ☐ No
Is the proposed development on a designated corridor? ☐ Yes ☐ No

Required Documents

For a complete list of the submittal requirements, see section 1.3.4 of the Engineering Design and Construction Manual.

DRT Submittals can be made online through the Auburn Permit Portal. The portal can be found at https://webgis.auburnalabama.org/permits.

For site development projects an approved site plan, approved engineering plans and an approved landscape plan (pursuant to regulations in Section 802.12) are required before release of the zoning certificate. Additionally, all erosion & sediment control measures and detention (if required) must be installed and approved prior to release of the zoning certificate.

I, the applicant, certify that all of the above facts are true and correct to the best of my knowledge. I understand that any development approval(s) granted pursuant to this application shall be subject to all applicable regulations of the City of Auburn, and that such approval(s) shall expire unless construction has commenced within eighteen (18) months following date of approval.

Applicant's Signature:	Date:
Applicant's Name (Please print):	

FOR OFFICE USE ONLY

Received By:	**Date:**
Submittal Approved? Yes ☐ No ☐	**Comment (if rejected):**
DRT Meeting Date:	

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APPENDIX A-2. Subdivision Application for DRT Submittal

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Case #: _____

City of Auburn

SUBDIVISION APPLICATION FOR DRT SUBMITTAL

ENGINEERING SERVICES DEPARTMENT
161 North Ross Street
Auburn, AL 36830
(334) 501-7390 ~ Fax: (334) 501-7294

Applicant Name: _____ Project Name: _____

Mailing Address: _____ Site Address: _____

_____ Phone Number: _____

Engineer's Email Address: _____

Please provide any additional email addresses below, for people who should be copied on the DRT comments letter:

_____

A COPY OF THE DEED TO THE SUBJECT PROPERTY MUST BE SUBMITTED WITH THIS APPLICATION. If the applicant is not the owner, then a letter allowing the applicant to act as an "authorized agent" must be on file. All associated fees will be charged to the applicant unless otherwise arranged.

General Location: _____

Gross Area of Subject Property: _____ Number of Individual Lots: _____

Current Zoning District: _____ Will this be developed as *Performance*? ☐ Yes ☐ No

Will this development require Lee County review? ☐ Yes ☐ No

Has a Preliminary Plat Been Approved? ☐ Yes ☐ No

Has the Preliminary Plat changed since it was approved by the Planning Commission? ☐ Yes ☐ No

If yes, describe the changes: _____

_____

Required Documents

For a complete list of the submittal requirements, see section 1.3.4 of the Engineering Design and Construction Manual.

DRT Submittals can be made online through the Auburn Permit Portal. The portal can be found at https://webgis.auburnalabama.org/permits.

I, the applicant, certify that all of the above facts are true and correct to the best of my knowledge. I understand that any development approval(s) granted pursuant to this application shall be subject to all applicable regulations of the City of Auburn, and that such approval(s) shall expire unless construction has commenced within eighteen (18) months following date of approval.

Applicant's Signature:	Date:
Applicant's Name (Please print):	

FOR OFFICE USE ONLY

Received By:	**Date:**
Submittal Approved? Yes ☐ No ☐	**Comment (if rejected):**
DRT Meeting Date:	

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APPENDIX B-1. Site Development Plans Engineering Checklist

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DRT Checklist for *Site Development* Construction Plans

Project Name: _____ **DRT Case No:** _____

This checklist must be submitted with every set of engineering construction plans for site developents (conditional & permitted use projects). All items on the checklist shall be addressed. If the item is not applicable to this project check the box next to the item labeled "N/A", and provide comment. Items preceded by an asterisk (*) are required for the submittal to be considered complete. If one of these items is missing from the submittal without a valid explanation, the entire submittal will be rejected. Note that this checklist is not intended to be all-inclusive, and fulfillment of this checklist does not alleviate the obligation of the designer to meet all City of Auburn code, regulations, ordinances, and specifications. The purpose of this checklist is to facilitate a more efficient plan review process for the designer and the review team.

	Description	Check	N/A	Comments
	Required Plan Sheets			
	These are the basic sheets we expect to see in a set of plans. Some sheets may be combined on certain projects, or have different names (for example, water and sewer shown on one utility plan sheet for small projects).			
*	Title/Cover Sheet			
*	Project Notes			
*	Existing Conditions/Demo Plan			
*	Site Plan (engineering)			
*	Water Plan			
*	Sanitary Sewer Plan			
*	Sanitary Sewer Profiles (for public infrastructure)			
*	Grading & Drainage Plan			
*	Storm Sewer Profiles (for public infrastructure)			
*	Erosion & Sediment Control Plan (typically 3 phases)			
*	Street Plan & Profiles (for public infrastrucutre)			
*	Miscellaneous Details, Cross-sections & Other Sheets			
*	City of Auburn Standard Details			
	Title Sheet			
TITLE SHEET - TITLE SHEE	Project Title			
	Permit Numbers (USACE & ADEM)			
	Relevant Contact Information			
	Sheet Index			
	Vicinity Map (legible)			
	Engineer's Seal			
	Project Notes			
NOTES	Verify that project notes do not conflict with City of Auburn specifications			
	Provide Legend			
	Existing Conditions / Demo Plan			
DEMO---DEMO---DEMO---DEMO---D	Include North arrow			
	Show locations of existing structures			
	Indicate if structures are being removed			
	Show existing topography with clearly labeled contours lines			
	Minimum 2ft contour intervals with every 10ft line labeled			
	Show existing water features including wetland areas			
	Show existing easements and right-of-ways			
	Show existing utilities			
	Indicate if being removed/abandoned			
	Show all property lines			
	Show the limits of clearing & grubbing			
	Site Plan (engineering)			
SITE PLAN - SITE PLAN	Show property lines, building layout, pavement, traffic/parking striping, traffic signs, etc.			
	Indicate parking dimensions, lane widths, and corner radii			
	Show dumpster location			
	Verfiy Planning Commission resolutions have been met for Conditional Uses			
	Water Plans			
W------W------W------W------V	*Required water service submittals prior to or with plan submittal:			
	Development Application for Water and Sewer Service			
	Backflow Protection Information Sheet			
	Fire flow calculations, when applicable (coordinate with WRM Department)			
	Include North arrow			
	If water layout requires multiple pages, include an overall plan sheet			

Description	Check	N/A	Comments
The following **existing** water infrastructure should be shown:			
Location, size, and material of all water mains and service lines			
Location and size of all water meters			
Location of the nearest main line valves for isolation of the site			
Location of the nearest fire hydrants			
Location of all blow-off valves and air release valves			
The following **proposed** water infrastructure should be shown:			
Location, size, and material of all water mains and service lines			
Location and size of all water meters (place at edge of ROW or easement)			
Location of all isolation valves, blow-off valves, and air release valves			
Location of all fire hydrants			
Location of FDC within 125 ft of a fire hydrant			
Location of all backflow prevention devices, and vaults			
Location of all bends, tees, and fittings (specify type and degree)			
Location and detail of all necessary thrust restraint			
Location of vault drain to grade or to storm sewer			
Show all existing and proposed easements			
Provide a general layout of other utilities (existing and proposed)			
Clearly differentiate between existing and proposed utilities			
Detail all main line connections. Show tap configuration and fittings.			
Provide backflow prevention for all main line connections			
Provide estimated static pressure (normally 820 - FFE / 2.31)			
Use pressure reducing valves where static pressure > 70 psi			
Size pipes to maintain a velocity not to exceed 10 ft/sec			
Provide minimum cover of 30 inches for lines 8 inches and smaller			
Provide minimum cover of 36 inches for lines larger than 8 inches			
Provide minimum 18 inches vertical separation where water & sewer cross			
Provide minimum 10 feet horizontal separation between water & sewer lines			
Provide sprinkler count			
Provide the following notes where applicable:			
"Existing services to be abandoned shall be terminated at the main."			
"Notify AWWB of any scheduled outages 7 days prior to the outage."			
"Only AWWB personnel are authorized to operate AWWB valves."			
Sanitary Sewer Plans			
*Required sewer service submittals prior to or with plan submittal:			
Development Application for Water and Sewer Service			
Grease Trap Sizing Worksheet			
Approved pump station design (coordinate with the WRM Department)			
Include North arrow			
If sewer layout requires multiple pages, include an overall plan sheet			
Show all existing and proposed easements			
Provide a general layout of other utilities (existing and proposed)			
The following **existing** sewer infrastructure should be shown:			
Location of all manholes with rim, and all invert elevations provided			
Location, sizes, materials, and slopes of all sewer mains and laterals			
Location, and size of grease traps and/or oil & grit separators			
The following **proposed** sewer infrastructure should be shown:			
Location of all manholes with rim, and all invert elevations provided			
Location, sizes, materials, and slopes of all sewer mains and laterals			
Location and size of grease traps where required			
Location and size of oil & grit separators where required			
Location of cleanouts at the edge of ROW or easement			
Clearly differentiate between existing and proposed utilities			
Label all manholes and pipes (correspond with labels on profile sheets)			
Provide contours or specify finish floor elevations			
Indicate how existing sewer mains or services are to be abandoned			
Manholes shall be locked down if less than 1 foot above the 100-yr BFE			
Public sanitary sewer main requirements:			
Manholes shall be located in the center of the street where possible			
Design sewer lines for maximum capacity at half full			
DIP required where cover is greater than 12 feet or less than 3 feet			
DIP required where less than 2 feet of clearance between utilities			
DIP required within the 100-yr BFE or where bouyancy is a concern			

Description	Check	N/A	Comments
Provide consistent pipe material between manholes			
Minimum slope requirements:			
4"=2%, 6"=1%, 8"=0.60%, 10"=0.35%, 12"=0.30%			
Provide a minimum 0.10' drop across all straight through manholes			
Provide a minimum 0.25' drop across all turning manholes			
Manhole spacing should not exceed 400 feet			
Services tied into mains shall have a 3 feet minimum separation			
Service lines should connect to manholes where possible			
Use standard 4 inch drop for service lines into manholes			
Service lines angled against the flow use a minimum 6 inch drop			
If angle against the flow >135 degrees connect lateral directly to main			
No more than four laterals connected to a pass through manhole			
No more than five laterals connected to a beginning manhole			
Cleanouts to be located in traffic rated enclosure in paved areas			
Backflow prevention is required when any sewered portion of a building is less than 12 inches above the rim elevation of the nearest **upstream** manhole.			
Such lots shall be identified on the plans and the plat.			
Sanitary Sewer Pipe Profiles			
Indicate pipe material, size, slope and length			
Show all utility crossings			
Show existing and proposed grades			
Show all rim and invert elevations			
Show outside drop manhole where drop is 2 feet or greater			
Label all manholes and pipes (correspond with labels on plan sheets)			
Show existing mains and structures at all connection points			
Clearly differentiate between existing and proposed utilities			
Clearly differentiate between material types			
Grading & Drainage Plans			
Include North arrow			
If plans require multiple pages, include at least one overall plan sheet			
Show existing topographic contours			
Maximum 2ft contour intervals with every 10ft line labeled			
Used lighter or dashed line type for existing contour lines			
Show proposed contours			
Maximum 2ft contour intervals with every 10ft line labeled			
Proposed contour lines shoud tie-in to existing contour lines			
Show streams and other water features			
Show stream & wetland buffers			
Show 100-yr flood plain boundaries			
Indicate minimum FFE's for lots adjacent to water features			
Show all existing structures, utilities, and easements that will remain			
Show mitigation areas			
Indicate steep slopes (City of Auburn Zoning Ordinance)			
Show curb & gutter (2ft City of Auburn Std. C&G)			
Show all storm water inlets			
Max access spacing 500ft for 15in to 48in pipe (for public infrastrcture)			
Max access spacing 800ft for 54in or greater (for public infrastructure)			
Double-wing inlets only used in sags (for public infrastructure)			
Show all proposed culverts			
Indicate type and dimensions			
Show headwalls and energy dissipaters			
Show all storm sewer pipe			
Show headwalls at discharge points			
Show all manholes and junction boxes			
Extend discharge points at least 10 ft beyond building lines			
Show rip-rap or other energy dissipators at discharge points			
Show all proposed drainage & utility easement			
Show detention system(s)			
Fencing required around ponds for slopes steeper than 3:1			
Pipes discharge at bottom of pond slopes			
Show outlet structure(s)			
Storm Water Pipe Profiles (for public infrastructure only)			
Indicate pipe size, material, slope and length			

	Description	Check	N/A	Comments
SD PROFILES	Pipe beneath streets shall be RCP			
	Show rim & invert elevations			
	Show 25-yr Hydraulic Grade Line			
	Show existing and proposed grades			
	Show all other utility crossings			
	Show existing pipe & structures at tie-ins			
Erosion & Sediment Control Plans				
ESC	Used a phased plan when applicable			
	Show clearing limits			
	Show stream & wetland buffers. Drainage basin of stream should be delineated from the commencement point of the stream, to the point that it leaves the property. Basin area determines buffer widths (see ZO)			
	Provide an ES&C legend			
	Identify project sign location and provide on-site project rain gauge			
	Silt fencing shall be Class "A" (wire reinforced, metal staked, trenched), C-POP, or approved equal.			
	Construction Entrance Pad (min 20ft x 50ft) Use #1 stone with geotextile fabric underneath. One CEP per site at any given time.			
	Hay bales may not be used as stand-alone inlet protection. They can be used in conjunction with silt fence, silt savers, etc			
	Use rock check dams, wattles, or silt fence check dams (rather than hay bales) where applicable.			
	Design and show outlet protection at all discharges			
	Show curb inlet protection devices (no stand-alone hay bales)			
	Slopes greater than 3:1 require erosion control blankets. Specify types of blankets being used.			
	Show all sediment basin locations, filter structures, and sediment volumes			
	*Submit sediment storage calculations			
	Attach City of Auburn standard erosion & sedimentation ctrl. details			
	Water Quality Forms Submittted			
	Low Impact Development/Green Infrastructure Forms Submitted			
	Include the following notes on the E&SC Plans[1]			
Street Plan & Profiles (for public infrastructure only)				
PLAN & PROFILE	**Plan view**			
	Include North arrow			
	Show existing and proposed topography			
	Show edge of pavement and curb/gutter			
	Show ROW & easements			
	Show station line			
	Show horizontal curve radii			
	Show deceleration lane storage, taper, and transition lengths			
	Indicate tangent lengths (minimum 100ft between curves)			
	Indicate street width (b/c to b/c)			
	Indicate intersection corner property line radii (minimum 20ft)			
	Show proposed sidewalks			
	Profile View			
	Show existing and proposed centerline grades			
	Max grade for local streets = 15%			
	Max grade for collector streets = 12%			
	Max grade for minor arterial = 8%			
	Max grade = 5% within 100ft of intersection			
	Show vertical alignment with all vertical curve data			
	Indicate the design speed used (see Engineering Design & Const. Manual)			
	Align stationing with the plan view station line			
Miscellaneous Details, Cross-sections, & Other Sheets				
MISC	Collector or arterial (or other special) striping			
	Show details for improvements to off-site infrastructure			
	Turn lanes - including buildup and striping (meet with City on widening)			
	Off-site sewer, water, or storm water improvements			
	Detention outlet control structure details			
	Culvert details			
	HDPE installation details (for public infrastrucutre)			
	Tail ditch and/or swale details			

	Description	Check	N/A	Comments
MISC ---	Traffic control plan and detour plan			
MISC ---	Proposed street classifications & buildups (for public infrastrucutre)			
City of Auburn Standard Details				
	Include all relevant City of Auburn standard details with the final plans			
Miscellaneous Design & Submittal Requirements				
MISC ---	The following shall be included with the initial DRT submittal, when applicable:			
MISC ---	1. Electrical plans for required pedestrian lighting			
MISC ---	2. Traffic Impact Study			
MISC ---	3. Sight distance analyses			
MISC ---	4. Design standards waiver requests			
MISC ---	No trees shall be within 10ft of center lines of utilities			
MISC ---	The following note should be added to all utility plans and plats[2]			
MISC ---	Easements shall be the greater of 20ft or 2 times the depth to the bottom of the utility. Easement widths shall be in increments of 10ft.			
MISC ---	Slope and grades of easements shall be passable by vehicles (maximum easement cross slope of 4:1)			
MISC ---	All topography should be relative to MSL (no assumed datum)			
MISC ---	Utility stub outs for future development should be placed in easements extending to the edge of the property line			
MISC ---	There are no points of storm water discharge from the property that exceed the pre-develoment conditions at those points			

[1]
a. Any area that has been disturbed and will remain so for more than 13 days shall be seeded and mulched within 5 days of being disturbed.
b. Additional BMPs may be required by the QCP and/or City of Auburn over the course of the project to minimize sediment release from the site.
c. All BMPs shall be designed and installed in accordance with the Alabama Handbook for Erosion Control, Sediment Control, and Stormwater Management on Construction Sites and Urban Areas and the City of Auburn standard erosion and sediment control details.
d. The use of floc-blocks, polyacrylamide (PAM), or other settling enhancement materials may be required by the QCP or City of Auburn during the course of construction to minimize turbidity and sediment release from the site.
e. Remove all temporary BMPs upon submittal of Notice Of Termination to ADEM.

[2]
a. No permanent structures may be constructed or placed on easements.
b. Fences may be erected perpendicularly across the easement provided there is a minimum 12-foot wide access gate installed. If the gate is to be locked there must be a City-approved lock installed in conjunction with the owners lock.
c. No canopy trees shall be planted within 10 feet of public water or sewer lines.

SIGNED: _____
(engineer of record)

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APPENDIX B-2. Subdivision Construction Plans Engineering Checklist

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DRT Checklist for *Subdivision* Construction Plans

Project Name: _____ **DRT Case No:** _____

City of Auburn

This checklist must be submitted with every set of engineering construction plans for subdivision improvements. All items on the checklist shall be addressed. If the item is not applicable to this project check the box next to the item labeled "N/A", and provide comment. Items preceded by an asterisk (*) are required for the submittal to be considered complete. If one of these items is missing from the submittal without a valid explanation, the entire submittal will be rejected. Note that this checklist is not intended to be all-inclusive, and fulfillment of this checklist does not alleviate the obligation of the designer to meet all City of Auburn code, regulations, ordinances, and specifications. The purpose of this checklist is to facilitate a more efficient plan review process for the designer and the review team.

	Description	Check	N/A	Comments
	Required Plan Sheets			
	These are the basic sheets we expect to see in a set of plans. Some sheets may be combined on certain projects, or have different names (for example, storm water profiles shown on the street plan & profile sheets).			
*	Title/Cover Sheet			
*	Project Notes			
*	Existing Conditions/Demo Plan			
*	Preliminary Plat			
*	Water Plan			
*	Sanitary Sewer Plan			
*	Sanitary Sewer Profiles			
*	Grading & Drainage Plan			
*	Storm Sewer Profiles			
*	Erosion & Sediment Control Plan (typically 3 phases)			
*	Street Plan & Profiles			
*	Miscellaneous Details, Cross-sections & Other Sheets			
*	City of Auburn Standard Details			
	Title Sheet			
TITLE SHEET - TITLE SHEE	Project Title			
	Permit Numbers (USACE & ADEM)			
	Relevant Contact Information			
	Sheet Index			
	Vicinity Map (legible)			
	Engineer's Seal			
	Project Notes			
NOTES	Verify that project notes do not conflict with City of Auburn specifications			
	Provide Legend			
	Existing Conditions / Demo Plan			
DEMO---DEMO---DEMO---DEMO---DEMO---DI	Include North arrow			
	Show locations of existing structures			
	Indicate if structures are being removed			
	Show existing topography with clearly labeled contours lines			
	Minimum 2ft contour intervals with every 10ft line labeled			
	Show existing water features including wetland areas			
	Show existing easements and right-of-ways			
	Show existing utilities			
	Indicate if being removed/abandoned			
	Show all property lines			
	Show the limits of clearing & grubbing			
	Preliminary Plat			
PLAT - PLAT -	Include a copy of the approved Preliminary Plat			
	Indicate any changes from the approved plat			
	Verify planning commission resolutions were addressed			
	Water Plans			
W-------W-------W-------W-------W--	*Required water service submittals prior to or with plan submittal:			
	Development Application for Water and Sewer Service			
	Backflow Protection Information Sheet			
	Fire flow calculations, when applicable (coordinate with WRM Department)			
	Include North arrow			
	If water layout requires multiple pages, include an overall plan sheet			
	The following **existing** water infrastructure should be shown:			
	Location, size, and material of all water mains and service lines			
	Location and size of all water meters			

Description	Check	N/A	Comments
Location of the nearest main line valves for isolation of the site			
Location of the nearest fire hydrants			
Location of all blow-off valves and air release valves			
The following **proposed** water infrastructure should be shown:			
Location, size, and material of all water mains and service lines			
Location and size of all water meters (place at edge of ROW or easement)			
Location of all isolation valves, blow-off valves, and air release valves			
Location of all fire hydrants			
Location of FDC within 125 ft of a fire hydrant			
Location of all backflow prevention devices, and vaults			
Location of all bends, tees, and fittings (specify type and degree)			
Location and detail of all necessary thrust restraint			
Location of vault drain to grade or to storm sewer			
Show all existing and proposed easements			
Provide a general layout of other utilities (existing and proposed)			
Clearly differentiate between existing and proposed utilities			
Detail all main line connections. Show tap configuration and fittings.			
Provide backflow prevention for all main line connections			
Provide estimated static pressure (normally 820 - FFE / 2.31)			
Use pressure reducing valves where static pressure > 70 psi			
Size pipes to maintain a velocity not to exceed 10 ft/sec			
Provide minimum cover of 30 inches for lines 8 inches and smaller			
Provide minimum cover of 36 inches for lines larger than 8 inches			
Provide minimum 18 inches vertical separation where water & sewer cross			
Provide minimum 10 feet horizontal separation between water & sewer lines			
Provide sprinkler count			
Provide the following notes where applicable:			
"Existing services to be abandoned shall be terminated at the main."			
"Notify AWWB of any scheduled outages 7 days prior to the outage."			
"Only AWWB personnel are authorized to operate AWWB valves."			
Sanitary Sewer Plans			
*Required sewer service submittals prior to or with plan submittal:			
Development Application for Water and Sewer Service			
Grease Trap Sizing Worksheet			
Approved pump station design (coordinated with the WRM Department)			
Include North arrow			
The following **existing** sewer infrastructure should be shown:			
Location of all manholes with rim, and all invert elevations provided			
Location, sizes, materials, and slopes of all sewer mains and laterals			
Location, and size of grease traps and/or oil & grit separators			
The following **proposed** sewer infrastructure should be shown:			
Location of all manholes with rim, and all invert elevations provided			
Location, sizes, materials, and slopes of all sewer mains and laterals			
Location and size of grease traps where required			
Location and size of oil & grit separators where required			
Location of cleanouts at the edge of ROW or easement			
If sewer layout requires multiple pages, include an overall plan sheet			
Show all existing and proposed easements			
Provide a general layout of other utilities (existing and proposed)			
Clearly differentiate between existing and proposed utilities			
Label all manholes and pipes (correspond with labels on profile sheets)			
Provide contours or specify finish floor elevations			
Indicate how existing sewer mains or services are to be abandoned			
Manholes shall be locked down if less than 1 foot above the 100-yr BFE			
Public sanitary sewer main requirements:			
Manholes shall be located in the center of the street where possible			
Design sewer lines for maximum capacity at half full			
DIP required where cover is greater than 12 feet or less than 3 feet			
DIP required where less than 2 feet of clearance between utilities			
DIP required within the 100-yr BFE or where bouyancy is a concern			
Provide consistent pipe material between manholes			
Minimum slope requirements:			

Description	Check	N/A	Comments
4"=2%, 6"=1%, 8"=0.60%, 10"=0.35%, 12"=0.30%			
Provide a minimum 0.10' drop across all straight through manholes			
Provide a minimum 0.25' drop across all turning manholes			
Manhole spacing should not exceed 400 feet			
Services tied into mains shall have a 3 feet minimum separation			
Service lines should connect to manholes where possible			
Use standard 4 inch drop for service lines into manholes			
Service lines angled against the flow use a minimum 6 inch drop			
If angle against the flow >135 degrees connect lateral directly to main			
No more than four laterals connected to a pass through manhole			
No more than five laterals connected to a beginning manhole			
Cleanouts to be located in traffic rated enclosure in paved areas			
Backflow prevention is required when any sewered portion of a building is less than 12 inches above the rim elevation of the nearest **upstream** manhole. Such lots shall be identified on the plans and the plat.			
Sanitary Sewer Pipe Profiles			
Indicate pipe material, size, slope and length			
Show all utility crossings			
Show existing and proposed grades			
Show all rim and invert elevations			
Show outside drop manhole where drop is 2 feet or greater			
Label all manholes and pipes (correspond with labels on plan sheets)			
Show existing mains and structures at all connection points			
Clearly differentiate between existing and proposed utilities			
Clearly differentiate between material types			
Grading & Drainage Plans			
Include North arrow			
If plans require multiple pages, include at least one overall plan sheet			
Show existing topographic contours			
Maximum 2ft contour intervals with every 10ft line labeled			
Used lighter or dashed line type for existing contour lines			
Show proposed contours			
Maximum 2ft contour intervals with every 10ft line labeled			
Proposed contour lines shoud tie-in to existing contour lines			
Show streams and other water features			
Show stream & wetland buffers			
Show 100-yr flood plain boundaries			
Indicate minimum FFE's for lots adjacent to water features			
Show all existing structures, utilities, and easements that will remain			
Show mitigation areas			
Indicate steep slopes (City of Auburn Zoning Ordinance)			
Show curb & gutter (2ft City of Auburn Std. C&G)			
Show all storm water inlets			
Max access spacing 500ft for 15in to 48in pipe (for public infrastrcture)			
Max access spacing 800ft for 54in or greater (for public infrastructure)			
Double-wing inlets only used in sags (for public infrastructure)			
Show all proposed culverts			
Indicate type and dimensions			
Show headwalls and energy dissipaters			
Show all storm sewer pipe			
Show headwalls at discharge points			
Show all manholes and junction boxes			
Extend discharge points at least 10 ft beyond building lines			
Show rip-rap or other energy dissipators at discharge points			
Show all proposed drainage & utility easement			
Show detention system(s)			
Fencing required around ponds for slopes steeper than 3:1			
Pipes discharge at bottom of pond slopes			
Show outlet structure(s)			
Storm Water Pipe Profiles (for public infrastructure only)			
Indicate pipe size, material, slope and length			
Pipe beneath streets shall be RCP			

	Description	Check	N/A	Comments
SD PROFILES SD PR	Show rim & invert elevations			
	Show 25-yr Hydraulic Grade Line			
	Show existing and proposed grades			
	Show all other utility crossings			
	Show existing pipe & structures at tie-ins			
Erosion & Sediment Control Plans				
ESC---ESC---ESC---ESC---ESC---ESC---ESC---ESC---ESC---ESC---ESC---ESC---ESC---ESC---ESC---	Used a phased plan when applicable			
	Show clearing limits			
	Show stream & wetland buffers. Drainage basin of stream should be delineated from the commencement point of the stream, to the point that it leaves the property. Basin area determines buffer widths (see ZO)			
	Provide an ES&C legend			
	Identify project sign location and provide project rain gauge on site			
	All silt fencing shall be Class "A" (wire reinforced, metal staked, trenched), C-POP, or approved equal			
	Construction Entrance Pad (min 20ft x 50ft) Use #1 stone with geotextile fabric underneath. One CEP per site at any given time.			
	Hay bales may not be used as stand-alone inlet protection. They can be used in conjunction with silt fence, silt savers, etc			
	Use rock check dams, wattles, or silt fence check dams (rather than hay bales) where applicable.			
	Design and show outlet protection at all discharges			
	Show curb inlet protection devices (no stand-alone hay bales)			
	Slopes greater than 3:1 require erosion control blankets. Specify types of blankets being used.			
	Show all sediment basin locations, filter structures, and sediment volumes			
	*Submit sediment storage calculations			
	Attach City of Auburn standard erosion & sedimentation ctrl. details			
	Water Quality Forms Submittted			
	Low Impact Development/Green Infrastructure Forms Submitted			
	Include the following notes on the E&SC Plans[1]			
Street Plan & Profiles (for public infrastructure only)				
PLAN & PROFILE / PLAN & PROFILE / PLAN & PROFILE / PLAN & PROFILE / PLAN & PROFILE / PLAN & PR	**Plan view**			
	Include North arrow			
	Show existing and proposed topography			
	Show edge of pavement and curb/gutter			
	Show ROW & easements			
	Show station line			
	Show horizontal curve radii			
	Show deceleration lane storage, taper, and transition lengths			
	Indicate tangent lengths (minimum 100ft between curves)			
	Indicate street width (b/c to b/c)			
	Indicate intersection corner property line radii (minimum 20ft)			
	Show proposed sidewalks			
	Profile View			
	Show existing and proposed centerline grades			
	Max grade for local streets = 15%			
	Max grade for collector streets = 12%			
	Max grade for minor arterial = 8%			
	Max grade = 5% within 100ft of intersection			
	Show vertical alignment with all vertical curve data			
	Indicate the design speed used (see Engineering Design & Const. Manual)			
	Align stationing with the plan view station line			
Miscellaneous Details, Cross-sections, & Other Sheets				
MISC --- MISC --- MISC --- MISC --- MISC -	Collector or arterial (or other special) striping			
	Show details for improvements to off-site infrastructure			
	Turn lanes - including buildup and striping (meet with City on widening)			
	Off-site sewer, water, or storm water improvements			
	Detention outlet control structure details			
	Culvert details			
	HDPE installation details (for public infrastructure)			
	Tail ditch and/or swale details			

	Description	Check	N/A	Comments
MISC	Traffic control plan and detour plan			
	Proposed street classifications & buildups (for public infrastructure)			
City of Auburn Standard Details				
	Include all relevant City of Auburn standard details with the final plans			
Miscellaneous Design & Submittal Requirements				
MISC	The following shall be included with the initial DRT submittal, when applicable:			
	1. Electrical plans for required pedestrian lighting			
	2. Traffic Impact Study			
	3. Sight distance analyses			
	4. Design standards waiver requests			
	No trees shall be within 10ft of center lines of utilities			
	The following note should be added to all utility plans and plats[2]			
	Easements shall be the greater of 20ft or 2 times the depth to the bottom of the utility. Easement widths shall be in increments of 10ft.			
	Slope and grades of easements shall be passable by vehicles (maximum easement cross slope of 4:1)			
	All topography should be relative to MSL (no assumed datum)			
	Utility stub outs for future development should be placed in easements extending to the edge of the property line			
	There are no points of storm water discharge from the property that exceed the pre-develoment conditions at those points			

[1]

a. Any area that has been disturbed and will remain so for more than 13 days shall be seeded and mulched within 5 days of being disturbed.
b. Additional BMPs may be required by the QCP and/or City of Auburn over the course of the project to minimize sediment release from the site.
c. All BMPs shall be designed and installed in accordance with the Alabama Handbook for Erosion Control, Sediment Control, and Stormwater Management on Construction Sites and Urban Areas and the City of Auburn standard erosion and sediment control details.
d. The use of floc-blocks, polyacrylamide (PAM), or other settling enhancement materials may be required by the QCP or City of Auburn during the course of construction to minimize turbidity and sediment release from the site.
e. Remove all temporary BMPs upon submittal of Notice Of Termination to ADEM.
f. Any dewatering operation must be properly filtered prior to discharge.

[2]

a. No permanent structures may be constructed or placed on easements.
b. Fences may be erected perpendicularly across the easement provided there is a minimum 12-foot wide access gate installed. If the gate is to be locked there must be a City-approved lock installed in conjunction with the owners lock.
c. No canopy trees shall be planted within 10 feet of public water or sewer lines.

SIGNED: ____

(engineer of record)

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APPENDIX B-3. Site Plan Sufficiency Checklist

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City of Auburn

SITE PLAN SUFFICIENY CHECKLIST
PLANNING DEPARTMENT
FOR THE DEVELOPMENT REVIEW TEAM SUBMITTAL

Case #_____

Please check boxes to indicate the required item has been addressed or mark "N/A", if appropriate.

REQUIRED

Table format:		**Graphic information:**	
	Zoning and Current Land Use of adjacent properties		**Vicinity map**, north arrow, seal, (Name, address & Phone number of surveyor), date prepared and graphic scale
	Impervious surface area in square feet, Impervious surface ratio (calculated) Maximum and proposed		**Certified boundary survey** of the tract prepared by a registered surveyor, indicating an existing lot of record
	Floor area in square feet, Floor area ratio (calculated) Maximum and proposed		Location, height and **dimensions of all structures**
	Number of floors or stories, **height** of all structures		Location of all **impervious surfaces**
	Type(s) of **bufferyard** required, if any, Along each property boundary and width		Location and dimensions of all required **bufferyards**
	Number of **parking spaces** Required and proposed (calculated) based on Section 502 or 509 requirements		Areas of **general landscaping** pursuant to Section 426 / Areas of **landscaping for off-street parking areas** pursuant to Sections 426 and 433
	Corridor Overlay Information where applicable (building materials, sign, lighting etc) *Site plans subject to Corridor Overlay requirements must submit **elevations**		Locations and dimensions of all **parking spaces, loading berths, and driveway aisles**. One-way aisles must be labeled as such
			Location of all **curb cuts** and their **distances from nearest adjacent curb cuts or street intersections**
			Phase lines, if the development is to be constructed in phases
			Location and screening of **solid waste receptacles**

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APPENDIX B-4. Drainage Checklist

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City of Auburn

Stormwater Drainage Checklist

Engineering Services Department
161 North Ross Street
Auburn, Alabama 36830 (334) 501-7390 FAX (334) 501-7294
https://www.auburnalabama.org/engineering-services/

This checklist shall be submitted as part of the DRT submittal package for all projects that require stormwater detention. It shall be included as the first page of the drainage report, and be signed/sealed by an engineer registered in the state of Alabama.

Description	Checked	N/A	Comments
Drainage report stamped by AL engineer			
Description of existing drainage conditions, including existing infrastructure, land use, wetlands, floodplains, etc., included in report			
Basin maps included for pre- and post-development conditions			
Sub-basins & outfalls clearly identified on basin maps			
Post-development rate of discharge does not exceed pre-development discharge rate at all analysis points			
Post-development routing summary presented in tabular format			
Pre-Development Conditions worksheet included for each sub-basin			
Post-Development Conditions worksheet included for each analysis point			
Point of Analysis Peak Discharge Summary table included			
Total Peak Discharge Summary table included			
Gutter Spread Table completed and included			
Pipe Design Table completed and included			
Hydraulic grade line shown on pipe profiles and/or swale cross-sections			
“No adverse impact” statement (for downstream infrastructure) included in report			

Project Name: _____

Date: _____

Engineer’s Signature: _____ Engineer’s Seal:

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Gutter Spread Table

Inlet ID	Gutter Flow (cfs)	Roadway Slope at Inlet (%)	Spread @ Inlet (ft)	Inlet Efficiency (%)	Bypass Flow (cfs)	Inlet ID Accepting Bypass

Pipe Design Table

Pipe ID	Pipe Size (in)	Pipe Slope (%)	Pipe Flow (cfs)	Full Flow Capacity (cfs)	Full Flow Velocity (fps)	Design Velocity (fps)

PRE-DEVELOPMENT CONDITIONS

Project Name: _____

Total Project Area (acres): _____

Comparison Point Name/Number: _____

Basin/Sub-Basin Area (acres): _____

	2 year storm	5 year storm	10 year storm	25 year storm	100 year storm
Curve Number or Runoff Coefficient					
Time of Concentration (min)					
Peak Flow (cfs)					

1- Use separate sheet for each comparison point that is used for stormwater calculations
2- Provide documentation for composite curve numbers or runoff coefficients
3- Provide documentation for time of concentration calculations
4- Provide documentation on calcualtions and method used to determine peak flow

Revised November 2011

POST-DEVELOPMENT CONDITIONS

Project Name: _____

Total Project Area (acres): _____

Comparison Point Name/Number: _____

Basin/Sub-Basin Area (acres): _____

Receiving Facility/Pond: _____

	2 year storm	5 year storm	10 year storm	25 year storm	100 year storm
Curve Number or Runoff Coefficient					
Time of Concentration (min)					
Peak Flow (cfs)					

1- Use separate sheet for each comparison point that is used for stormwater calculations
2- Indicate name of detention pond receiving runoff or bypass as appropriate
3- Provide documentation for composite curve numbers or runoff coefficients
4- Provide documentation for time of concentration calculations
5- Provide documentation on calcualtions and method used to determine peak flow

Revised November 2011

COMPARISON POINT PEAK DISCHARGE SUMMARY

Project Name: _____

Comparison Point Name/Number: _____

Return Period	Pre- Development Flow (Q cfs)	Post-Development Flow (Q cfs)	Delta Q (cfs)	% Increase (Q)
2				
5				
10				
25				
100				

Revised November 2011

TOTAL PEAK DISCHARGE SUMMARY

Project Name: _____

Return Period	Pre- Development Flow (Q cfs)	Post-Development Flow (Q cfs)	Delta Q (cfs)	% Increase (Q)
2				
5				
10				
25				
100				

Revised November 2011

APPENDIX B-5. Signature Bond for Development

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STATE OF ALABAMA

LEE COUNTY

City of Auburn

Signature Bond for Development

KNOW ALL MEN BY THESE PRESENTS, THAT WE _____ (hereinafter called the Principal) having received approval from the City of Auburn to construct the development know as _____ , are held firmly unto the City of Auburn, Alabama (hereinafter called the Obligee), in full and just sum of the complete cost to repair or replace any and all infrastructure removed or damaged or displaced in the event we are unable to complete the project within a reasonable amount of time or if we declare bankruptcy or insolvency before completing the project.

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if Principal shall promptly and faithfully construct the improvements in accordance with the approved construction plans which are made a part hereof by reference as if set out in here full, and said construction approved by Obligee, within a reasonable amount of time, then this agreement shall be null and void; otherwise to remain in full force and effect.

This agreement shall be binding on ourselves, our heirs, administrators, executors and assigns, jointly and severally and shall run with the land, firmly by these presents.

SIGNED, SEALED, AND DELIVERED THIS _____ day of _____ , _____

_____
OWNER

_____
Owner's Agent

_____
Witness to Agent's Signature:

_____
Address

(Seal)

_____
City, State

ATTEST:

_____
Telephone Number

Note: This document must be filed in the Probate record after execution.

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APPENDIX C. Hold Harmless Agreement

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INDEMNITY AND HOLD HARMLESS AGREEMENT

STATE OF ALABAMA

LEE COUNTY

WHEREAS, the City of Auburn, Alabama (hereinafter the "City") has a drainage and utility easement located along _____ _____ in Auburn, Alabama, and
(Right of way or location description)

WHEREAS, _____ (hereinafter the "Owner") of property described as _____ _____, Auburn, Alabama, wishes to locate _____ (hereinafter the "Obstruction") on the City's drainage and utility easement (shown by Exhibit A attached), and as a condition and obligation to the City for the granting of its consent to the Obstruction, the Owner, for itself and its successors in the ownership of the property on which Obstruction is located, has agreed to indemnify and hold harmless the City and holders of any interest in the easement where the Obstruction is located.

NOW, THEREFORE, in consideration of the granting of the consent of the undersigned to the placement of the Obstruction on and under the drainage and utility easement, the Owner does, for itself and its successors in the ownership of the property described, agree to indemnify, hold harmless and defend the City, its officials, representatives, agents, servants and employees from and against all liability and loss which the City and the holders of the interest in the drainage and utility easement on which the Obstruction is located may sustain as the result of claims, demands, costs or judgments arising out of the location of the Obstruction on the drainage and utility easement, including its reasonable costs in defending against any such claims. For the same consideration, the Owner agrees to release and discharge the City and The Water Works Board of the City of Auburn, Alabama from any damages to the Obstruction arising from utility maintenance work within the easement. The obligations of this indemnity shall be binding upon the successors and assigns of the Owner and shall be a covenant running with the land and shall be binding upon all future owners of the property on which the easement is located.

[Remainder of page intentionally left blank]

EXECUTED this the _____ day of _____, 20__.

_____
Owner

By: _____
Its _____

CITY OF AUBURN, ALABAMA

By: _____
Its _____

THE WATER WORKS BOARD OF THE
CITY OF AUBURN, ALABAMA

By: _____
Its _____

STATE OF ALABAMA

LEE COUNTY

I, the undersigned authority, a Notary Public in and for said County, in said State, hereby certify that _____, whose name is signed to the foregoing instrument, on behalf of the Owner, and who is known to me, acknowledged before me on this date that, being informed of the contents of the foregoing document, he/she executed the same voluntarily on the day the same bears date.

Given under my hand and official seal this the _____ day of _____, 20___.

_____
Notary Public
Commission Expires _____

STATE OF ALABAMA

LEE COUNTY

I, the undersigned authority, a Notary Public in and for said County, in said State, hereby certify that _____, whose name is signed to the foregoing instrument, on behalf of the City of Auburn, Alabama, and who is known to me, acknowledged before me on this date that, being informed of the contents of the foregoing document, he/she executed the same voluntarily on the day the same bears date.

Given under my hand and official seal this the _____ day of _____, 20___.

_____
Notary Public
Commission Expires _____

STATE OF ALABAMA

LEE COUNTY

I, the undersigned authority, a Notary Public in and for said County, in said State, hereby certify that _____, whose name is signed to the foregoing instrument, on behalf of The Water Works Board of the City of Auburn, Alabama, and who is known to me, acknowledged before me on this date that, being informed of the contents of the foregoing document, he/she executed the same voluntarily on the day the same bears date.

Given under my hand and official seal this the _____ day of _____, 20___.

_____
Notary Public
Commission Expires _____

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APPENDIX D. Easement Encroachment Agreement

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STATE OF ALABAMA)
)
COUNTY OF LEE)

LICENSE AGREEMENT

This Agreement made and entered into on this the_____day of_____, by and between The City of Auburn, Alabama, a municipal corporation, hereinafter referred to as "Licensor" and_____, hereinafter referred to as "Licensee."

STATEMENT OF BACKGROUND INFORMATION

1. The City of Auburn, Alabama is the owner of that certain drainage and utility easement from_____, dated_____, and recorded in the Office of the Judge of Probate of Lee County, Alabama in _____.

2. Licensee has requested that it be permitted to construct and install its _____and associated appurtenances within said easement, being further described on that certain map marked "Exhibit A", attached hereto and made a part hereof by reference, and in consideration thereof has agreed to indemnify and hold harmless Licensor from any and all damages caused by its use of said easement. Licensee agrees to restore the drainage and utility easement to preconstruction conditions or better.

STATEMENT OF AGREEMENT

NOW, THEREFORE, for and in consideration of the above recitations and the mutual covenants and agreements contained herein, the parties do hereby agree as follows:

1. Licensee is hereby granted a revocable license or permit to install within the boundaries of the above-described easement its _____ and associated appurtenances in accordance with plans and specifications approved by the Licensor and at a location agreed upon by Licensor.

2. Licensee does hereby indemnify and hold harmless Licensor for any and all claims, damages and liability incurred by Licensor as a result of Licensee's _____and associated appurtenances being located within said easement and shall further be responsible for the payment or reimbursement of all defense costs, including, but not limited to, attorneys' fees which result from the same.

3. Licensor may terminate this Agreement at any time by giving to Licensee sixty (60) days written notice thereafter to so terminate this license in which case Licensee shall remove its_____and associated appurtenances as soon as practical thereafter at no expense to the Licensor.

IN WITNESS WHEREOF, the parties have executed this License Agreement on the date first written above.

THE CITY OF AUBURN, ALABAMA,
A MUNICIPAL CORPORATION,

BY: _____
ITS: Mayor

ATTEST:

BY: _____
ITS: City Manager

_____
LICENSEE

BY:_____(L.S.)

ITS:_____

STATE OF ALABAMA

LEE COUNTY

I, the undersigned authority, a Notary Public in and for said County, in said State, hereby certify that_____, whose name is signed to the foregoing instrument, and who is known to me, acknowledged before me on this date that, being informed of the contents of this document, he/she executed the same voluntarily on the day the same bears date.

Given under my hand and official seal this the___day of_____.

_____
Notary Public
Commission Expires_____

APPENDIX E-1. Request for Design and Construction Standard Waiver Form

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City of Auburn
Engineering Services Department
161 North Ross Street
Auburn, Alabama 36830
webengineering@auburnalabama.org

City of Auburn

Request for Design and Construction Waiver

PROJECT INFORMATION Date: _____

Name of Project: _____ Project Address: _____

Applicant Name: _____ Telephone No.: _____

Applicant Address: _____ Applicant Firm: _____

WAIVER INFORMATION

Existing Standard

Manual Section Number and Title: _____

Brief Description of Existing Standard: _____

_____

_____

Proposed Waiver

Description of Proposed Waiver: _____

_____

_____

_____

Hardship or Justification for Waiver (See Waiver Criteria in Section 1.11.2.1): _____

_____

_____

_____

ATTACHMENTS

List all supporting documentation submitted with this form: _____

_____

_____

Note: For waivers to Standard Details, submit a hard-copy of the detail showing each proposed modification encircled with a "cloud."
For appealing a waiver denial, written application must be submitted to the Planning Commission within 30 days of the denial.

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APPENDIX E-2. Amendments

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RESOLUTION NO. 11-197

WHEREAS, the City Council of the City of Auburn approved and adopted the Public Works Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and,

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective immediately.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Public Works Design and Construction Manual effective immediately.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 15th day of November 2011.

BILL HAM, JR., Mayor

ATTEST:

CHARLES M. DUGGAN, JR., City Manager

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Summary of Proposed Changes to the Public Works Design & Construction Manual (PWDCM)

Table of Contents

1. Added Appendix B-6, Signature Bond for Development. The Signature Bond was referenced but no formal document was included in the manual.
2. Added Appendix E-2, Amendment Number 1. As the PW Manual is amended, copies of the resolution, changes, and effective date will become a part of the manual.

Section 1 – General Information

Section 1.2.1 Definitions

1. Include a definition for Development Agreement.

Section 1.3.3.6 Bonding

1. Added a reference to the location of the Signature Bond.

Section 1.3.3.8 Development Committee

1. Added a reference to the location of the Signature Bond and removed requirement for a performance bond to cover costs of improvements.

Section 1.3.4.3 DRT Submittal Requirements

1. Added language to define that the Stormwater Storage Facility Operations & Maintenance Agreement shall be submitted before the Zoning Certificate is issued.
2. Added minimum 300 dpi resolution requirement for digital submittals.

Section 1.3.4.4 DRT Forms and Checklists

1. Provide clarification on the intent of the forms and when they are required for a development.

Section 1.3.5.5 AWWB Water Main Connection Permit

1. Provide clarification to the chain of custody of the Water Main Connection Permit.

Section 1.5.1 As-Built Submittal

1. Add reference to the geoid model to be used for as-built surveys.
2. Add reference to the Continually Operating Reference Station (CORS) to be used for Global Position System (GPS) surveys and control datum.
3. Include a minimum observation time for GPS surveys for both critical and non-critical coordinates.
4. Include a maximum Position Dilution of Precision (PDOP) value allowed for GPS surveys.
5. Add minimum resolution requirements for digital submittals.

Section 1.6.1 Easements Discussion

1. Provide clarification that creek and ditch crossings must be made accessible prior to acceptance of the infrastructure.

Section 1.6.4 Easement Language

1. Add indemnity note for obstructions placed on easements.

Section 1.8 Acceptance

1. Provide clarification on Board authority and maintenance responsibility consistent with the current Backflow Prevention and Cross-Connection Control Policy.
2. Change “Sewer Division Manager” to “Sewer Collection System Manager”.

Section 1.9 Warranty Period

1. Provide clarification that the Board or the City will invoice the developer for any costs associated with required repairs due to defects in materials and workmanship during the warranty period.

Section 1.10 Fees and Charges

1. Remove all references to sewer surcharge areas.

Figure 1.1 Development Review Process Flowchart

1. Changed language from “DRT Secretary” to “Public Works” for consistency.
2. Added an action item “BMPs Installed by the Contractor and Inspected by the City” prior to Issuance of Clearing, Grading & Utility Permit.

Appendix B-4 Drainage Checklist

1. Updated Stormwater Drainage checklist verbiage to coincide with forms.
2. Changed the basin/sub basin pre development, post development, and sub basin peak forms to reference a Point-of-Analysis approach instead of a basin approach for consistency with practice.

Appendix B-6 Signature Bond

1. Added the Signature Bond for Development to be executed under specific circumstances. The Signature Bond was referenced but no formal document was included in the manual.

Appendix E-2 Amendments

1. Amendment Number 1. As the PW Manual is amended, copies of the resolution, changes, and effective date will become a part of the manual.

Section 2 – Traffic Signal Design Guidelines

Section 2.1.1 Signal Heads

1. Added requirement for a quick disconnect feature on LED lenses and wire termination in a terminal block to simplify maintenance.

Section 2.1.6 Power Supply

1. Added reference to standard details and specify a service disconnect.

Standard Details

1. Modified Signals Detail Sheet 1 to conform to MUTCD requirements
2. Modified Detail Sheet 2 to incorporate decorative top
3. Modified Detail Sheet 3 to enlarge details
4. Modified material specifications on Signals Detail Sheet 4.

Section 3 – Traffic Calming

Section 3.1 Traffic Calming Process Summary

1. Removed requirement for 66% approval response limit to allow neighborhoods that do not meet traffic calming warrants to still petition with 80% approval required for installation.

Section 3.4 Neighborhood Petitions and Cost Share

1. Modified the amount of time a petition can circulate to 3 months.

Section 5 – Roadway Design

Section 5.2.4.3 Sidewalks

1. Changed the minimum sidewalk width to 4' for local and cul-de-sac streets, and 5' for arterials, collectors, and residential collectors.

Section 5.2.6 Driveways

1. Added language to clarify City involvement for driveways proposed to tie to state routes within the City of Auburn.

Section 5.2.6.2 Driveway Location

1. Revised the language that specifies driveway location for double frontage lots. The language clarifies that this will be in residential developments.
2. Changed the language that when a property is proposed for a change of use, existing driveways that do not comply with the Manual "should" be closed instead of "shall".

Section 5.2.6.3 Driveway Spacing

1. Removed driveway spacing requirements identified for Shug Jordan, EUD, and Auburn Outer Loop. Spacing along these roadways will be per the arterial standards.
2. Clarified that the average curb cut spacing requirement applies to "residential collector streets" instead of simply "collector streets" and how the calculation is performed.

Section 5.3.7 Deceleration Lanes and Tapers

1. Added reference to Appendix K for requirements for deceleration lanes.

Appendix K

1. Added notation for segments where right turn deceleration lanes are required

Appendix L

1. Updated list

Standard Details

1. Modified Streets Detail Sheet 12 to modify sidewalk requirements and identify requirements for ADA passing lanes.
2. Modified Streets Detail Sheet 13 to specify Detectable Warnings at handicap ramps as optional.
3. Added Streets Detail Sheet 25, Bus Turnout detail.

Section 7 – Drainage Section

Appendix T Stormwater Storage Facility Operation and Maintenance Agreement

1. Modified document to include owner/grantor contact information.

RESOLUTION NO. 12-245

WHEREAS, the City Council of the City of Auburn approved and adopted the Public Works Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and,

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective January 1, 2013.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Public Works Design and Construction Manual effective January 1, 2013.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 18th day of December 2012.

BILL HAM, JR., Mayor

ATTEST:

CHARLES M. DUGGAN, JR., City Manager

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Pending Updates for the Public Works Design & Construction Manual

December, 2012

Table of Contents

1. Added 5.2.4.4 and 5.3.2.4 Irrigation
2. Added 5.3.2.5 Gates
3. Added Appendix P-1 Irrigation Policy

Section 1 – General Information

Section 1.3.3.6 Bonding

1. Added a reference to the bonding amount of 125% to help reduce the forfeiting of bonds by developers.

Section 1.3.4.1 DRT Process Overview

1. Clarified language regarding meeting date and reference to the location of DRT information.
2. Changed continuance guidelines from three weeks to six months.
3. Changed denial guidelines to coincide with expiration of continuance.

Section 1.3.4.3 DRT Submittal Requirements

1. Reduced numbers of full-size copies of plans required from 2 to 1, added a PDF submittal, and require hard and digital copy of the drainage report and traffic impact study to be submitted to be consistent with current practice.
2. Clarified final submittal requirements to include recorded Stormwater Storage Facility Operation and Maintenance Agreement to be consistent with current practice.

Section 1.5 Project Completion Requirements As-Built Drawings

1. Updated reference to datum due to changes in the CORS.

Appendix A-1 Site Development Application for DRT Submittal

1. Removed reference to posting comments on the City's website due to most engineers not wanting comments posted.

Appendix A-2 Subdivision Development Application for DRT Submittal

1. Removed reference to posting comments on the City's website due to most engineers not wanting comments posted.

Appendix E-2 Amendments

1. Amendment Number 2. As the PW Manual is amended, copies of the resolution, changes, and effective date will become a part of the manual.

Section 2 – Traffic Signal Design Guidelines

Section 2.1.2 Signal Supports

1. Removed references to Pelco since Pelco no longer makes the poles.

Section 2.1.4 Communications

1. Added option for other types of communication equipment to allow flexibility in equipment.

Section 2.1.6 Power Supply

1. Clarified the type of UPS and housing requirements.

Section 2.1.7 Vehicle Detection

1. Specify detection method must be approved by the City Engineer.

Section 2.1.7.4 Wireless Detection

1. Removed reference to wireless as the preferred detection method to provide flexibility in types of detection equipment.

Section 2.1.10 Pedestrian Signal

1. Added manufacturer's information on the push button.

Section 2.1.10.1 Warrants

1. Included reference to sidewalk to the list of evaluation items.

Section 2.1.11 Intersection Lighting

1. Specified cobra head fixture manufacturer's information.

Appendix G

1. Modified notes to eliminate reference to Pelco.
2. Clarified color of ball at top of crown.
3. Added luminaire arm and assembly to the traffic signal pole assembly.

Standard Details

1. Modified Signals Detail Sheet 2 to correct signal head placement and specify pole manufacturer.
2. Modified Signals Detail Sheet 4 underground power source details.
3. Removed Pelco details for the pole, arm, and arm clamp.

Section 3 – Traffic Calming

Section 3.2.2 Speed

1. Modified speeds in Table 3.1 to include ranges.

Section 3.3 Result of Traffic Calming Analysis

1. Modified speeds to include ranges.

Section 4 – Traffic Impact Studies

Section 4.2.2 Evaluation Elements

1. Added internal site circulation and flow to the analysis to be consistent with current practice.

Section 4.2.3 Roadway Traffic Volumes/Traffic Counts

1. Extended time for use of volumes from one to two years unless the area has experienced significant traffic growth.

Section 5 – Roadway Design

Section 5.2 Roadway Design Elements

1. Added reference to the International Fire Code (IFC).

Section 5.2.4.1 Streets

1. Added reference to the ALDOT Guidelines for Operation relative to asphalt placement rates and thicknesses.
2. Added reference to the International Fire Code (IFC).

Section 5.2.4.3 Sidewalks

1. Clarified reference to collectors for sidewalk location on both sides of a roadway.

Section 5.2.4.4 Irrigation

1. Added reference to the Irrigation Policy (Appendix P-1)

Section 5.2.6.1 Design Criteria

1. Added language to allow use of an engineered, site specific driveway turnout design.

Section 5.2.10 Median Openings

1. Clarified the type, location, and length of medians.
2. Added language to specify City Council's purview for median openings on College Street and West Glenn Avenue.

Section 5.3.2.4 Irrigation

1. Added reference to the Irrigation Policy (Appendix P-1)

Section 5.3.2.5 Gates

1. Added information relative to the allowance of gates.

Section 5.3.5 Left Turn Lane Warrants at Unsignalized Intersections

1. Updated based on new NCHRP.

Section 5.3.6 Right Turn Lane Warrants

1. Updated based on new NCHRP.

Section 5.3.7 Deceleration Lanes and Tapers

1. Clarified language for requirements for deceleration lanes.

Section 5.6 Street Lighting

1. Added requirement that all new subdivisions will have street lighting installed and have lighting plans approved prior to installation.

Section 5.7 Signing and Pavement Markings

1. Added reference for solar-powered marker installation for approved mid-block crossings.

Appendix K

1. Removed street segments where right turn deceleration lanes are required.

Appendix L

1. Added Cary Creek Parkway.

Appendix N

1. Updated form to include submission contact information.

Standard Details

1. Modified Streets Detail Sheet 1 to clarify sidewalk requirement and minimum width of 4'.
2. Modified Streets Detail Sheet 2 to clarify sidewalk requirement must be waived by Planning Commission to allow use.
3. Modified Streets Detail Sheet 9 to require toewall at end of flume.
4. Modified Streets Detail Sheet 10 to allow use of an engineered, site specific driveway turnout design.
5. Modified Streets Detail Sheet 14 to denote Detectable Warnings at handicap ramps as optional and the cross slope on the bottom detail to ¼" per foot.
6. Modified Streets Detail Sheet 16 to show minimum width of multi-use path as 8' instead of 10'.
7. Modified Streets Detail Sheet 17 to show minimum width at entrance of parking area to 21' instead of 24' and extended dimension line to include gutter as requested by local engineers.
8. Modified Streets Detail Sheet 18 to extend dimension line to include gutter.
9. Modified Streets Detail Sheet 19 to extend dimension line to include gutter.
10. Modified Streets Detail Sheet 20 to replace perpendicular striping with tick marks, and reverse flow direction.
11. Updated Streets Detail Sheet 22 to reference latest International Building Code.

Section 7 – Drainage Section

Section 7.2.4 United States Geological Survey Regression Equation

1. Updated equation.

Section 7.2.5 Permeable Pavement

1. Clarified use of permeable pavement.

Standard Details

1. Added details for standard inlets with Neenah grates.
2. Updated Streets Detail Sheet 6 to require mechanical tamping around inlets.

RESOLUTION NO. 14-19

WHEREAS, the City Council of the City of Auburn approved and adopted the Public Works Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and,

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective immediately.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Public Works Design and Construction Manual effective immediately.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 4th day of February 2014.

Mayor

ATTEST:

City Manager

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Pending Updates for the Public Works Design & Construction Manual
February, 2014

Table of Contents

1. Added 5.11 Private Streets.
2. Added Appendix T-1. Stormwater Storage Facility Operation and Maintenance Agreement for Subdivisions.

Section 1 – General Information

Section 1.3.4.3 DRT Submittal Requirements

1. Removed required submittal of offsite easements for the initial submittal.
2. Added submission of required offsite easements with final submittal.
3. Changed submittal of the Stormwater Storage Facility Operation and Maintenance Agreement to be consistent with current practice.
4. Required digital copies of the final Traffic Impact Study and Drainage report with the final submittal.

Section 1.5.1 Surveying

1. Updated CORS name and reference number.
2. Updated water distribution features.
3. Updated storm water features to include outlet structure and shape.

Section 1.5.3 Submittal

1. Changed the submittal requirement to be consistent with current practice.

Section 1.6.4 Easement Language

1. Added a standard hold harmless note to cover irrigation systems.

Appendix E-2 Amendments

1. Amendment Number 3. As the PW Manual is amended, copies of the resolution, changes, and effective date will become a part of the manual.

Section 2 – Traffic Signal Design Guidelines

Section 2.1.1 Signal Heads

1. Removed references to GELcore.

Section 2.1.5 Signal Wiring, Conduit, and Junction Boxes

1. Clarified wiring installation methods to be consistent with current practice.

Section 2.1.7.3 Video Detection

1. Specify color camera instead of black and white.

Section 2.1.9 Intersection Signage

1. Changed specifications for illuminated signs to be consistent with current practice.

Section 2.1.10.3 Timing

1. Updated equation.

Standard Details

1. Modified Signals Detail Sheet 2 to show complete pole details.
2. Modified Signals Detail Sheet 4 underground power source details.

Section 5 – Roadway Design

Section 5.1

1. Added reference to plans adopted by the City and how they are incorporated into the PWDCM.

Section 5.2.4.3 Sidewalks

1. Added reference to Public Right of Way Accessibility Guidelines (PROWAG).
2. Clarified local commercial roadways to have 5' wide sidewalk.

Section 5.2.6.1 Design Criteria

1. Added language to allow additional width at the right of way for radius flares.

Section 5.2.6.5 Shared Driveways

1. Added language to specify the maximum width of a shared residential driveway.

Section 5.3.6 Right Turn Lane Warrants

1. Changed the National Cooperative Highway Research Program Report (NCHRP) from Report 279 to Report 457.

Section 5.11 Private Street

1. Incorporated language for the construction of private street.

Appendix K

1. Updated street names and segments.

Appendix L

1. Corrected the spelling of 'Mitcham' Avenue.

Appendix M

1. Added new streets

Standard Details

1. Modified Streets Detail Sheet 1 to clarify slope of greenspace for non-curb and gutter streets.
2. Added Street Detail Sheet 10A and 10B to show options for constructing sidewalks across driveway turnouts.
3. Modified Streets Detail Sheet 12 to add reference to PROWAG and added local commercial reference to 5' wide sidewalk.
4. Modified Streets Detail Sheet 13 to denote Detectable Warnings at handicap ramps as required.
5. Modified Streets Detail Sheet 14 to denote Detectable Warning Device as required.

Section 7 – Drainage Section

Section 7.4.5 Operation and Maintenance

1. Clarified submission requirements for the agreement.

Section 7.5.6 Conditional Letter of Map Revision

1. Changed the requirement of a CLOMR submission from ‘may’ to ‘will’ and adjusted when the CLOMR is needed.

Appendix T-1

1. Included an Operation and Maintenance Agreement applicable to subdivision projects.

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RESOLUTION NO. 14-267

WHEREAS, the City Council of the City of Auburn approved and adopted the Public Works Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and,

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective January 1, 2015.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Public Works Design and Construction Manual effective January 1, 2015.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 16th day of December 2014.

BILL HAM, JR., Mayor

ATTEST:

CHARLES M. DUGGAN, JR., City Manager

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Summary of Proposed Changes to the Public Works Design & Construction Manual (PWDCM)
December, 2014

Table of Contents

1. Added Appendix P-2 Decorative Street Signs Policy.

Section 1 – General Information

Section 1.5.3 Project Completion Requirements – As-Built Drawings

1. Added language to specify how long the City quality control check should take.

Appendix B-1 and B-2

1. Modified forms to include the project name, modified the width of the construction exit pad, and added C-POP Silt Fence.

Appendix E-2 Amendments

2. Amendment Number 4. As the PW Manual is amended, copies of the resolution, changes, and effective date will become a part of the manual.

Section 2 – Traffic Signal Design Guidelines

Section 2.1.3 Cabinet and Controller Equipment

1. Clarified the requirement for cabinets.

Section 2.1.5 Signal Wiring, Conduit, and Junction Boxes

1. Clarified the size and lid requirements for junction boxes.

Section 2.1.6 Power Supply

1. Clarified the requirement for cabinets.

Section 2.1.10 Pedestrian Signal

1. Added language referencing the Public Rights-of-Way Accessibility Guidelines' (PROWAG).

Section 2.1.10.3 Timing

1. Changed pedestrian walking time from four seconds to three seconds and referenced the MUTCD.

Appendix G Traffic Signal Notes

1. Updated notes to be consistent with current practice on type of Mast Arm Pole and Pedestrian Pole. This includes type of pedestrian pole to be used.

Section 3 – Traffic Calming

Appendix I

1. Modified the example on the form.
2. Added reference to online form.

Section 5 – Roadway Design

Section 5.2.4.3 Sidewalks

1. Added language referencing the Public Rights-of-Way Accessibility Guidelines' (PROWAG).

Section 5.7.1 Street Name Signs

1. Incorporated language from the Decorative Street Signs Policy (Appendix P-2).

Appendix M

2. Changed Corporate Drive to Corporate Parkway.

Appendix N

1. Added reference to online form.

Standard Details

1. Modified Streets Detail Sheet 6 to clarify temporary and permanent patch requirements.
2. Modified Streets Detail Sheet 14 to clarify slope requirements for handicap ramps.

RESOLUTION NO. 15-285

WHEREAS, the City Council of the City of Auburn approved and adopted the Public Works Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and,

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective January 1, 2016.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Public Works Design and Construction Manual effective January 1, 2016.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 15th day of December 2015.

Mayor

ATTEST:

City Manager

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Pending Updates for the Public Works Design & Construction Manual
December, 2015

Table of Contents

1. Added Section 5.6.4 Decorative Pedestrian Lighting.
2. Added Section 5.9.1 Transit Stops.
3. Added Section 5.12 Greenways.

Section 1 – General Information

Section 1.2.5 Acronyms and Definitions - Definitions

1. Added definition for ADA.
2. Added reference to the digital location for the standard specifications and standard details.

Section 1.3.1 Development Process – Overview

1. Added reference to the territorial jurisdiction of the City.

Section 1.3.3 Development Process – Subdivision

1. Added reference to reviews affected by the Lee County Planning Commission in the territorial jurisdiction of the City.

Section 1.3.3.4 Development Process – Engineering Plan

1. Added reference for developments in the territorial jurisdiction of the City.

Section 1.3.3.6 Development Process – Bonding

1. Added reference for street lighting requirements.

Section 1.3.4.1 Development Review Team – DRT Process Overview

1. Added review time for developments in the territorial jurisdiction of the City.

Section 1.3.4.3 Development Review Team – DRT Submittal Requirements

1. Added option for digital submittals.

Section 1.3.5 Permits

1. Added reference to departments responsible for each permit

Section 1.3.5.4 Permits – Clearing, Grading, and Utility Permit

1. Added requirement for submission of soil proctor information as part of this permit.

Section 1.4.2 Project Completion Requirements – Construction – Materials

1. Added reference to the digital location for the standard specifications and standard details.

Section 1.4.4 Project Completion Requirements – Construction – Inspection and Testing

1. Added reference for inspection of developments within the territorial jurisdiction.

Section 1.5.1 Project Completion Requirements – As-Built Drawings

1. Updated the reference to the Geoid model name.
2. Added requirements for control points and modified the horizontal and vertical accuracy of critical and non-critical points.

3. Added requirements for as-built drawings when pertaining to City maintained infrastructure.

Section 1.11.2.2 Updates and Waivers to the Manual - Procedure

1. Changed the appeal body from the Building Board of Adjustment to Planning Commission.

Appendix A-2

1. Modified form to include Lee County Review.

Appendix B-1 and B-2

1. Updated the forms to modify the water tank elevation to 820 on the pressure calculations.

Appendix E-1

1. Modified form to remove multiple waivers and provide justification area.

Appendix E-2 Amendments

1. Amendment Number 5. As the PW Manual is amended, copies of the resolution, changes, and effective date will become a part of the manual.

<u>Section 2 – Traffic Signal Design Guidelines</u>

Section 2.1.1 Signal Design Elements – Signal Heads

1. Clarified the type and color of mounting hardware and positioning of signal heads.

Section 2.1.2 Signal Design Elements – Signal Supports

1. Removed reference to separation requirements.

Section 2.1.3 Signal Design Elements – Cabinet and Controller Equipment

1. Modified the requirement for cabinets.

Section 2.1.4 Signal Design Elements – Communications

1. Clarified how equipment is handled when an intersection is modified or upgraded.

Section 2.1.5 Signal Design Elements – Signal Wiring, Conduit, and Junction Boxes

1. Added requirements for wiring when an intersection is modified or upgraded.
2. Clarified requirements for conduit.

Section 2.1.6 Signal Design Elements – Power Supply

1. Clarified how the power source is determined and changed the battery backup part number.

Section 2.1.7 Signal Design Elements – Vehicle Detection

1. Modified the requirement for video detection when an intersection is newly signalized or modified.
2. Clarified the requirements for loop wire.

Section 2.1.7.3 Signal Design Elements – Video Detection

1. Modified video detection requirements to include bicycles.
2. Added color requirement for cameras and mounting hardware.

Section 2.1.9 Signal Design Elements – Intersection Signage

1. Clarified requirements for illuminated signs.

Section 2.1.10 Pedestrian Signal

1. Clarified requirements for mounting hardware.
2. Modified requirements for pedestrian push buttons, including signage and Polera settings.

Section 2.1.11 Intersection Lighting

1. Clarified luminaire assembly fixture type.

Section 2.4 Construction

1. Added notification requirement to beginning work.

Section 2.4.3 Inspection

1. Added inspection requirements for traffic signals.

Appendix H

1. Added Sheet 5- Decorative Pedestrian Light detail.
2. Added Sheet 6 – Pedestrian Push Button Pole detail.

<u>Section 5 – Roadway Design</u>

Section 5.2.4.3 Roadway Design Elements – Sidewalks

1. Clarified cross slope requirements for sidewalk.
2. Added requirements for streetscape improvements within the Downtown Area, to include wider sidewalks, street trees, and decorative lighting.
3. Clarified sidewalk termination grading requirements.
4. Added inspection requirements for sidewalk within the right of way.
5. Added requirements for street trees, including tree wells, brick color, and Silva Cells.

Section 5.2.7.2 Roadway Design Elements - Bicycle and Pedestrian Facilities – Bicycle Lanes

1. Modified reference to design requirements for bicycle lanes.

Section 5.2.7.3 Roadway Design Elements - Bicycle and Pedestrian Facilities – Shared Roadway

1. Modified reference to design requirements for shared roadways.

Section 5.3 Intersection Design Elements

1. Added language regarding street jogs.

Section 5.6.4 Street Lighting – Decorative Pedestrian Lighting

1. Added requirements for decorative street lighting.

Section 5.8 Right-of-way Planting

1. Added requirements for street trees, including tree wells, brick color, and Silva Cells.

Section 5.9.1 Access Management and Coordination - Transit Stops

1. Added requirement for transit stops for purpose built student housing.

Section 5.12 Greenways

1. Added requirements for greenways.

Appendix K

1. Changed Richland Road segment.
2. Added segment to Wire Road.

Appendix L

1. Added directional points to seven (7) collector roads.
2. Added six (6) collector roads.

Appendix O

1. Modified Streets Detail Sheet 11 to specify minimum sidewalk cross slope, add a requirement for joint sealant, and make the expansion material consistent.
2. Modified Streets Detail Sheet 17 to clarify width requirements at landscaped islands.
3. Added Sheet 29 Silva Cell detail sheet.
4. Added Sheets 30 through 35 Tree Well and Grate detail sheets.
5. Added Sheet 36 Bus Turnout detail.
6. Added Sheet 37 Right In Right Out detail.
7. Changed all applicable slopes on details to percent instead of fractional representations.
8. Changed all applicable slopes on sidewalk details to include word ‘Maximum’.
9. All sheets were renumbered due to the additional sheets.

RESOLUTION NO. 17-329

WHEREAS, the City Council of the City of Auburn approved and adopted the Public Works Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and,

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective January 1, 2018.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Public Works Design and Construction Manual effective January 1, 2018.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 19th day of December 2017.

Mayor

ATTEST:

City Manager

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Summary of Proposed Changes to the Public Works Design & Construction Manual
December 2017

Table of Contents

1. Added Section 1.3.5.10 Sanitary Sewer Connection Permit.
2. Renumbered Other Permits, Section 1.3.5.11.
3. Added Appendix P-3 Downtown Sidewalks and Pedestrian Lighting Map.
4. Added Appendix P-4 Decorative Pedestrian Lighting Master Plan.

Section 1 – General Information

Section 1.3.1 Development Process – Overview

1. Added reference to infrastructure requirements for developments within the City.

Section 1.3.3.2 Lot Layout Plans

1. Added reference to the Subdivision Regulations.

Section 1.3.3.3 Preliminary Plat

1. Added reference to the Subdivision Regulations.

Section 1.3.3.4 Engineering Plan

1. Added reference to the checklist in Appendix B.

Section 1.3.3.5 Final Plat

1. Added reference to the Subdivision Regulations.

Section 1.3.4.1 Development Review Team – DRT Process Overview

1. Added review time for revised plan submittals.

Section 1.3.4.2 Development Review Team – Preconstruction Meeting

1. Clarified requirements and attendees for the preconstruction meeting.

Section 1.3.4.3 DRT Submittal Requirements

1. Modified submittal requirements.

Section 1.3.5.5 Permits – AWWB Water Main Connection Permit

1. Added references to the WRM Design and Construction Manual.

Section 1.3.5.6 Permits – Blasting Permit

1. Added references to the Communications Division of Public Safety and the State of Alabama.

Section 1.3.5.8 Permits – Building Permit

1. Removed reference to the number of permits required for developments.

Section 1.3.5.10 Permits – Sanitary Sewer Connection Permit

1. Added information relative to the requirements for sanitary sewer connection permits.

Section 1.5.1 Surveying

1. Added requirement for as builts for decorative pedestrian lighting.

Section 1.6.1 Discussion

1. Removed information relative to the rededication of easements.

Section 1.9 Project Completion Requirements – Warranty Period

1. Clarified when the warranty period for a development starts and the responsibility of the developer during the warranty period.

Appendix A-1 Site Development Application for DRT Submittal

1. Clarified required email address for comments.
2. Added notation of applicant/owner contact information if DRT comments are to be provided to someone other than engineer.

Appendix A-2 Subdivision Development Application for DRT Submittal

1. Clarified required email address for comments.
2. Added notation of applicant/owner contact information if DRT comments are to be provided to someone other than engineer.

Appendix B-1 Site Development Plans Engineering Checklist

1. Added DRT permit number.
2. Added statement regarding comparison points.

Appendix B-2 Subdivision Construction Plans Engineering Checklist

1. Added DRT permit number.
2. Added statement regarding comparison points.

Appendix B-3 Site Plan Sufficiency Checklist

1. Clarified how the form should be filled out.

Appendix E-1 Request for Design and Construction Standard Waiver Form

1. Added City logo and applicant address.

Appendix E-2 Amendments

1. Amendment Number 6. As the PW Manual is amended, copies of the resolution, changes, and effective date will become a part of the manual.

Section 2 – Traffic Signal Design Guidelines

Section 2.1.1 Signal Design Elements – Signal Heads

1. Clarified the location of the wire for mast arm intersections.

Section 2.1.3 Cabinet and Controller Equipment

1. Added requirement for spare conduit.

Section 2.1.5 Signal Wiring, Conduit and Junction Boxes

1. Added requirement for spare conduit.

Section 2.1.6 Signal Design Elements – Power Supply

1. Added color requirements for the service disconnect.

Section 2.1.7.3 Signal Design Elements – Video Detection

1. Added color requirement for mounting hardware.

Section 2.1.9 Signal Design Elements – Intersection Signage

1. Changed the photocell requirements for illuminated signs.

Standard Details

1. Modified Signals Detail Sheet 1 to delete R10-3e sign.
2. Modified Signals Detail Sheet 2 to clarify location of cables, clarify location of pedestrian signal heads, specify the type of Holophane pole, and clarify distance requirements for the push button.
3. Modified Signals Detail Sheet 3 to clarify loop lengths.
4. Modified Signals Detail Sheet 5 to specify breakaway post model number.
5. Modified Signals Detail Sheet 6 to clarify wire sizes, bury depths for conduit, and denote the decorative ball.
6. Added details for the breakaway pole bases and notes (Sheets 7-9).

Section 4 – Traffic Impact Studies

Section 4.2.13 Mitigation Thresholds and Measures

1. Clarified requirements of traffic impact studies in regards to roadways within the study area that exceed the minimum acceptable LOS standard.

Section 5 – Roadway Design

Section 5.2.4 Typical Street Section

1. Clarified width of roadway at fire hydrants in Table 5.4.

Section 5.2.4.1 Roadway Design Elements – Streets

1. Added requirement for coordination with US Postal Service for centralized mail systems.

Section 5.2.4.3 Roadway Design Elements – Sidewalks

1. Expanded requirements for streetscape improvements within the Downtown Sidewalks & Pedestrian Lighting boundary, to include wider sidewalks, street trees, and decorative lighting. The specific reference to the Downtown Area was removed.

2. Added option for developer to pay for required sidewalk in locations deemed appropriate by the City.
3. Added distance requirements for sidewalk to extend to the nearest driveway or roadway for termination.

Section 5.2.6.5 Driveways – Shared Driveways

1. Clarified width for shared residential lots.

Section 5.2.8 Cul-De-Sacs

1. Clarified width requirement at fire hydrants.

Section 5.3.2.5 Intersection Design Elements - Gates

1. Added reference to the International Fire Code, latest edition.

Section 5.3.3 Sight Distance

1. Revised Table 5.7.

Section 5.6 Street Lighting

1. Added requirements for lighting in parking and/or common areas and at development entrances.

Section 5.6.4 Street Lighting – Decorative Pedestrian Lighting

1. Added reference to the Downtown Sidewalks and Pedestrian Lighting Map and the Decorative Pedestrian Lighting Master Plan for decorative pedestrian lighting.
2. Add a provision for the City to provide decorative pedestrian lights and/or panels associated with the project.

Section 5.11 Private Streets

1. Clarified the definition of a private street and added a requirement for sidewalk, to be determined during the DRT review.
2. Clarified width requirement at fire hydrants.

Section 5.12 Greenways

1. Added a reference to the Parks, Recreation and Culture Master Plan.

Appendix K Arterial Roads List

1. Clarified extents for North Donahue Drive.

Standard Details

1. Modified Streets Detail Sheet 19 to allow for use on trails and changed all applicable slopes on details to percent instead of fractional representations.
2. Modified Streets Detail Sheet 24 to clarify ADA sign distance requirement.

3. Modified Streets Detail Sheet 25 to remove specific reference to accessible parking requirement and added reference to the IBC.
4. Modified tree well frame detail sheets (Sheet 31, 32, 34).
5. Added detail for a roadway flare at a hydrant (Sheet 38).

Appendix P-3 Downtown Sidewalks and Pedestrian Lighting Map

1. Added map.

Added Appendix P-4 Decorative Pedestrian Lighting Master Plan

1. Added map.

Section 7 – Drainage

Section 7.3.8.5 Outlet Protection

1. Added requirements for installation of headwalls.

Section 7.4.1 Comparison Points

1. Clarified comparison point requirements.

Section 7.4.2.4 Regional Detention

1. Clarified construction and certification requirements for regional detention facilities.

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RESOLUTION NO. 18-323

WHEREAS, the City Council of the City of Auburn approved and adopted the Public Works Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and,

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective January 1, 2019.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Public Works Design and Construction Manual effective January 1, 2019.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 18th day of December 2018.

Mayor

ATTEST:

City Manager

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Summary of Proposed Changes to the Public Works Design & Construction Manual
December 2018

Manual

1. Removed all references to Public Works Department, Public Works Director and Codes Enforcement and replaced with Engineering Services Department, City Engineer and Inspection Services.

Title Page

1. Modified the name of the manual to reflect the new department due to the reorganization of February 1, 2018.

Section 1 – General Information

Section 1.2.5 Definitions

1. Corrected web link to the Standard Specifications and Details.

Section 1.3.4.3 Development Review Team – DRT Submittal Requirements

1. Added reference to the Auburn Permit Portal.
2. Clarified the submittal requirements.

Section 1.3.5 Permits

2. Added reference to Sanitary Sewer Connection permit.

Section 1.3.5.5 Permits – AWWB Water Main Connection Permit

1. Added time of at least 48 hours notification.

Section 1.3.5.10 Permits – Sanitary Sewer Connection Permit

1. Added time of at least 48 hours notification.

Section 1.4.2 Materials

1. Corrected web link to the Standard Specifications.

Section 1.4.2.1 Materials – Submittals

1. Modified number if submittals from five (5) to four (4).
2. Modified number of returned approved submittals from two (2) to one (1).

Section 1.5 Project Completion Requirements – As-Built Drawings

1. Added Preliminary Acceptance Letter.
2. Modified “Subdivision” to “Single-Family Residential.
3. Added “fee-simple or condo”.
4. Modified “Site Plan” to “Commercial or Multi-family Residential”.
5. Added timeline of ten (10) days for review of as-builts.

Appendix A-1 Site Development Application for DRT Submittal

1. Added space to include additional email addresses.
2. Added reference to the Auburn Permit Portal.

Appendix A-2 Subdivision Application for DRT Submittal

1. Added space to include additional email addresses.
2. Added reference to the Auburn Permit Portal.
3. Removed option of not posting review comments on the City's website.

Appendix E-1 Request for Design and Construction Standard Waiver Form

1. Added reference to section 1.11.2.1 – Waiver Criteria.

<u>Section 2 – Traffic Signal Design Guidelines</u>

Section 2.1.3 Signal Design Elements – Cabinet and Controller Equipment

1. Clarified cabinet components and controller for Flashing Yellow Arrow (FYA).

Section 2.1.4 Signal Design Elements – Communications

1. Clarified new installation requirements.

Section 2.1.4.2 Signal Design Elements – Communications – New System Implementation

1. Modified requirements for new signal installations.

Section 2.1.5 Signal Design Elements – Signal Wiring, Conduit, and Junction Boxes

1. Added requirements for wiring flashing yellow arrow (FYA) with associated wiring table.
2. Clarified requirements for conduit.

Section 2.1.7.3 Signal Design Elements – Vehicle Detection – Video Detection

1. Added requirement for video detection routing.

Section 2.1.9 Signal Design Elements – Intersection Signage

1. Added requirement for illuminated sign power and mounting locations.

Section 2.1.11 Signal Design Elements – Intersection Lighting

1. Added requirement for photocell location.

Section 2.4 Construction

1. Added requirement for pre-construction meeting.

Appendix H Traffic Signal Details and Specifications

1. Sheet 7: Revised the Ground Rod Detail to show decorative base.
2. Sheet 8: Revised Pole Handhole Detail to show decorative base.
3. Sheet 8: Added Developer Requirement notes.
4. Sheet 8: Changed 2" min. above finished grade to 1" min.

5. Sheet 9: Added four new general notes.
6. Sheet 9: Revised Lighting Fixture Schedule.
7. Added new Sheet 10 with Weatherproof Receptacle - Internal Base Location details.
8. Added new Sheet 11 with Weatherproof Receptacle - External Post Shaft Location details.
9. Added new Sheet 12 with Panelboard Schedule and Enclosure notes.
10. Added new Sheet 13 with Panel details.
11. Added new Sheet 14 with Panel Circuit details.
12. Added new Sheet 15 with Panel Circuit details.
13. Added new Sheet 16 with Pedestal details.
14. Added new Sheet 17 with Panel mounting details.

<u>Section 4 – Traffic Impact Studies</u>

Section 4.1.2 Traffic Impact Study Requirements – Applicability

1. Added requirement for updated traffic impact study if the development build-out is not completed within 10 years.

<u>Section 5 – Roadway Design</u>

Section 5.2.4.3 Roadway Design Elements – Sidewalks – Design Criteria

1. Added requirements for including driveway crossings.

Section 5.3.5 Roadway Design Elements – Intersection Design Elements – Left Turn Lane Warrants and Unsignalized Intersections

1. Modified left turn lane requirement.
2. Replaced with correct tables for Figure 5.3, 5.4, and 5.5.

Section 5.3.6 Roadway Design Elements – Intersection Design Elements – Right Turn Lane Warrants

1. Modified right turn lane requirement.

Section 5.3.7 Roadway Design Elements – Intersection Design Elements – Deceleration Lanes and Tapers

1. Modified deceleration lanes and taper requirements.

Section 5.4.2.4 Design of Utilities on Street Right of Way – General Requirements – Utility Patch Repairs

1. Added reference to section 5.5.2.

Section 5.5.2.1 Design of Pavements – Pavement Repairs/Retrofit – Asphalt

1. Modified depth requirement from four (4) inches to five (5) inches.
2. Clarified alternate permanent patch.

Section 5.6.4 Street Lighting – Decorative Pedestrian Lighting

1. Added reference to the Decorative Pedestrian Lighting Master Plan.

Appendix O Standard Drawings and Details

1. Sheet 1: Placed asterisk (*) to denote two equal lifts.
2. Sheet 1: Removed reference to ESAL Range C/D.
3. Sheet 4: Added note specifying deflection of water main.
4. Sheet 6: Modified Area to be milled.
5. Sheet 10: Added hatching to delineate concrete flume.
6. Sheet 10: Modified Swale title to Concrete Swale.
7. Sheet 11: Inserted reference to section 5.2.6 in note #3.
8. Sheet 11: Added note #10 referring to non-cub and gutter streets.
9. Sheet 11: Added hatching delineating concrete apron.
10. Sheet 11: Removed minimum dimension.
11. Sheet 14: Inserted “Current” to note #4.
12. Sheet 14: Removed reference to Parks and Recreations and Inserted Public Works Department in note #9.
13. Sheet 14: Clarified tack requirements in note #5.
14. Sheet 15: Referenced only Prowag Standards in note #3.
15. Sheet 15: Added note #4 referring to sidewalks adjacent to inlets.
16. Sheet 18: Clarified dimensions Right Alternate View detail.
17. Sheet 38: Clarified the Limits of Hydrant area.
18. Sheet 38: Inserted clarification for different street type width requirements.

Appendix P-4 Decorative Pedestrian Lighting Plan

1. Revised the map to include Addendums 1 and 2 showing locations along Opelika Road for the Decorative Pedestrian Lighting Master Plan.

Appendix R Storm Sewer Standard Details

1. Sheet 1: Modified details for traffic rated and non-traffic rated cast iron rings and cover.
2. Sheet 6: Changed Utility Conflict Manhole title to Utility Conflict Junction Box.
3. Sheet 6: Removed general sanitary sewer note from detail.
4. Sheet 6: Removed reference to Welded wire.
5. Sheet 6: Removed all references to cast iron steps.
6. Sheet 7: Added requirement for welded wire fabric in the sloped headwall detail.
7. Sheet 8: Removed reference to cast iron steps.
8. Sheet 8: Added note required traffic rated ring and cover.
9. Sheet 8: Added note recommending rebar in junction box top.
10. Sheet 9: Removed Plan view and Precast Manhole details.
11. Sheet 9: Removed reference to cast iron steps.
12. Sheet 9: Added title to Max. Pipe Size chart.

13. Sheet 10: Added “minimum” to Ditch width requirement.
14. Sheet 11: Removed all details related to Inlet With Gutter Detail.

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RESOLUTION NO. 19-338

WHEREAS, the City Council of the City of Auburn approved and adopted the Engineering Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective January 1, 2020.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Engineering Design and Construction Manual effective January 1, 2020.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 17th day of December 2019.

Mayor

ATTEST:

City Manager

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Summary of Proposed Changes to the Engineering Design & Construction Manual
December 2019

Section 1 – General Information

Section 1.3.4.1 Development Review Team – DRT Process Overview

1. Inserted paragraph for Large or Complex Projects.

Section 1.3.4.3 Development Review Team – DRT Submittal Requirements

1. Revised submittal requirements to require digital submittals in addition to hard copies.

Appendix B-1 – DRT Checklist for Site Development Construction Plans

1. Inserted additional notes for erosion control.

Appendix B-2 – DRT Checklist for Subdivision Construction Plans

1. Inserted additional notes for erosion control.

Section 2 – Traffic Signal Design Guidelines

Section 2.1.4 Signal Design Elements – Communications

1. Clarified network communication requirements.

Section 2.1.4.2 Signal Design Elements – Communications – New System Implementation

1. Specified Ethernet Field Switch Model.

Section 2.1.6 Signal Design Elements – Power Supply

1. Specified internal component route.

Appendix H – Traffic Signal Details and Specifications

1. Sheet 6: Added note specifying internal component route.

Section 3 – Traffic Calming

1. Removed all references to Public Works Department and replaced with Engineering Services Department.

Section 3.1 Traffic Calming Process Summary

1. Removed reference to Appendix I and added website location.
2. Inserted verbiage regarding traffic calming request re-submittals.

Section 3.4 Neighborhood Petitions and Cost Share

1. Removed verbiage regarding circulation of petition.

Appendix I – Traffic Calming Request Form

1. Delete form from manual. Online version is currently being utilized.

Section 5 – Roadway Design

Section 5.2.4.1 Roadway Design Elements – Streets

1. Added requirements for temporary turnarounds.

Section 5.2.4.3 Sidewalks

1. Removed reference to Appendix N and added website location.

Appendix K – Arterials Roads List

1. Updated the List to include new streets.

Appendix L – Collector and Residential Collector Road List

1. Updated the List to include new streets.

Appendix N – Request for Sidewalk Construction Form

1. Delete form from manual. Online version is currently being utilized.

Appendix O – Standard Drawings and Details

1. Sheet 12: Revised details with 2' green space options.
2. Sheet 13: Revised detail clarifying ramp locations.
3. Sheet 20: Modified dimension lines.
4. Sheet 29: Added note about utility conflicts.
5. Sheet 31: Revised detail with vertical tabs for frame installation.
6. Sheet 32: Revised detail with vertical tabs for frame installation.
7. Sheet 34: Replaced detail with new detail.
8. Added new Sheet 39 with planting details.
9. Added new Sheet 40 with planting details.
10. Added new Sheet 41 with planting details.
11. Added new Sheet 42 with planting details.
12. Added new Sheet 43 with planting details.
13. Added new Sheet 44 with planting details.
14. Added new Sheet 45 with planting details.
15. Added new Sheet 46 with planting details.
16. Added new Sheet 47 with planting details.

Appendix P – Request For installation of Traffic Signs

1. Updated Department information.

Appendix P-1 – Irrigation Policy

1. Updated Department information.

Appendix P-2 – Decorative Street Signs Policy

1. Updated Department information.

Appendix P-3 – Downtown Sidewalks and Pedestrian Lighting Map

1. Updated the map legend indicating sidewalk locations.
2. Added Residential Collector classification with sidewalk locations.

Appendix Q – Visual Inspection Checklist

1. Updated Department Information.

Appendix R- Storm Sewer Standard Details

1. Sheet 7: Added “minimum” to slope required for sloped headwall detail.

Appendix S – Stormwater Storage Facility Final Certification

1. Updated Department Information.

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RESOLUTION NO. 21-273

WHEREAS, the City Council of the City of Auburn approved and adopted the Engineering Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective January 1, 2022.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Engineering Design and Construction Manual effective January 1, 2022.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 21st day of December 2021.

Mayor

ATTEST:

City Manager

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Pending Updates for the Engineering Design & Construction Manual
December 2021

Section 1 – General Information

Section 1.3.4.3 Development Review Team – DRT Submittal Requirements

1. Referenced the Auburn Permit Portal for submittals.
2. Revised application requirements for initial and final submittals.

Section 1.4.2.1 Project Completion Requirements - Submittals

1. Revised submittal packages to be digital.

Section 1.11.2.2 Updates and Waivers to the Manual

1. Inserted timeline of 30 days for the appeal.

Appendix B-1 – DRT Checklist for Site Development Construction Plans

1. Clarified and inserted additional submittal requirement for Electrical plans for required pedestrian lighting.

Appendix B-2 – DRT Checklist for Subdivision Construction Plans

1. Clarified and inserted additional submittal requirement for Electrical plans for required pedestrian lighting.

Appendix B-5 – DRT Meeting Waiver

1. Removed DRT Meeting Waiver form.

Section 2 – Traffic Signal Design Guidelines

Section 2.1.9 Signal Design Elements – Intersection Signage

1. Removed requirements for photoelectric cell control of luminaires at disconnect.

Section 2.1.10 Signal Design Elements – Pedestrian Signal

1. Inserted requirements for wiring standards of pedestrian signal heads.

Section 2.1.11 Signal Design Elements – Intersection Lighting

1. Revised location of luminaire photoelectric cells from base of disconnect to individual luminaire housing.

Section 2.2.3 Signal Timing – Signal Timing Plans

1. Added verbiage regarding coordinated signal systems.

Appendix H – Traffic Signal Details and Specifications

1. Reformatted all details to eliminate ambiguities.
2. Revised title to “Signal Details and Standard Drawings”.
    a. Revised Sheet 1 (2.03) Traffic Signal Signs: Inserted Flashing Yellow Signal Head and “Left Turn Yield On Flashing Yellow Arrow”.
    b. Added new detail (2.06) Typical Street Light Pole Detail.
    c. Added new Street Lighting Fixture Schedule to detail (2.07).

Section 3 – Traffic Calming

Section 3.1 Traffic Calming Process Summary

1. Revised the review period to two (2) years for non-warranted applications.
2. Clarified that construction will be scheduled by the Public Works Department.

Section 3.4.1 Neighborhood Petitions and Cost Share – Standard Materials

1. Revised the standards for materials and sign installation.

Section 3.4.2 Neighborhood Petitions and Cost Share – Standard Landscaping

1. Revised title to “Landscaping".
2. Revised the standards for landscaping of traffic circles.

Section 3.4.3 Neighborhood Petitions and Cost Share – Exceptions – Special Material/Landscaping Request

1. Clarified the requirement for maintenance agreements for decorative elements.

Section 3.5.2 Review and Analysis of Applied Solutions – Re-Evaluation

1. Revised the review period to two (2) years for new applications.

Section 4 – Traffic Impact Studies

Section 4.1.1 Traffic Impact Study Requirements - General

1. Added requirement to submit the Traffic Impact Study with or before DRT plan submission.

Section 4.2.13 Traffic Impact Study Procedures and Criteria – Mitigation Thresholds and Measures

1. Added verbiage for waiver submittals.

Section 5 – Roadway Design

Section 5.6 Street Lighting

1. Added requirements for LED street lighting.

Section 5.6.2 Standard Decorative Fixtures

1. Clarified maintenance responsibility of the servicing authority.
2. Removed developer submitted lighting plans.

Section 5.6.3 Street Lighting – Specialized Decorative Fixtures

1. Changed the name of Section to “Light Plan Approvals”.
2. Revised the Developer and submittal requirements.

Section 5.6.4 Decorative Pedestrian Lighting

1. Clarified submittals.

Appendix K – Arterial Roads List

1. Removed U.S. Highway 280 and created new Highway Roads List.

Appendix L – Collector and Residential Collector Road List

1. Updated the List to include new streets.

Appendix M – Local Commercial / Local Streets/ Cul-De Sacs/Alleys List

1. Updated the List to include new streets.

Appendix O – Standard Drawings and Details

1. Reformatted all details to eliminate ambiguities.
2. Revised title to “Street Details and Standard Drawings”.
    a. Revised Sheet 9 (5.04): Header Curb Detail.
    b. Revised Sheet 13 (5.07): Driveway / Sidewalk Without Greenspace Detail.
    c. Revised Sheet 18 (5.14): Hand Rail Detail.
    d. Revised Sheet 34 (5.22): Tree Grate Detail.

Appendix R – Storm Sewer Standard Details

1. Reformatted all details to eliminate ambiguities.
    a. Revised Sheet 7 (7.12): Sloped Paved Headwall Detail.

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RESOLUTION NO. 24-033

WHEREAS, the City Council of the City of Auburn approved and adopted the Engineering Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective March 1, 2024.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Engineering Design and Construction Manual effective March 1, 2024.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 20th day of February 2024.

Mayor

ATTEST:

City Manager

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Summary of Proposed Changes to the Engineering Design & Construction Manual
March 2024

Section 1 – General Information

Section 1.2.5 Definitions

1. Updated the Development Review Team (DRT) definition.

Section 1.3.4 Development Review Team (DRT)

1. Additional Permit Portal information has been provided.
2. The DRT review process timeframes have been revised.
3. Added a requirement to provide written comment responses.

Section 1.3.4.6 DRT Process Flowchart

1. The DRT process flowchart has been updated.

Appendix B-1 – DRT Checklist for Site Development Construction Plans

1. Modified a note related to trees near utilities.

Appendix B-2 – DRT Checklist for Subdivision Construction Plans

1. Modified a note related to trees near utilities.

Section 5 – Roadway Design

Section 5.2.4.1 Streets

1. Clarified when temporary turnarounds are required on street stub-outs.

Section 5.2.4.3 Sidewalks

1. References to PROWAG have been updated.
2. Added criteria for upsizing existing sidewalk for new or redevelopments.
3. Clarified that tree wells may be waived where there are no sidewalks.

Section 5.2.6.1 Design Criteria (Driveways)

1. Specified the maximum width for residential driveways.

Section 5.2.6.3 Driveway Spacing

1. Edited text for clarity.

Section 5.3.2.3 Islands

1. Clarified irrigation in the right-of-way.

Section 5.3.3 Sight Distance

1. Clarification was added for the design speed.

Section 5.3.7 Deceleration Lanes and Tapers

1. The overlay thickness was modified.

Section 5.3.8 Deceleration Lanes and Tapers

1. Text was removed to clarify turn lane requirements.

Section 5.6.4 Decorative Pedestrian Lighting

1. Specified red continuous-run conduit for lighting.

Appendix L – Collector and Residential Collector Road List

1. Updated the list to include new streets and remove streets no longer applicable.

Appendix O – Standard Drawings and Details

1. Detail 5.01
    a. Revised Driveway Cross Section.
    b. Revised shoulder width.
2. Detail 5.02 – Revised shoulder width.
3. Detail 5.06
    a. Made a grammatical correction.
    b. Updated the overlay thickness.
4. Detail 5.08 – Specified the maximum driveway width for residential uses.
5. Detail 5.12 – Updated the PROWAG reference.
6. Detail 5.14 – Added Black Powder Coat requirement for sidewalk guardrail.
7. Detail 5.35 – Made a grammatical correction.

Section 6 - Geotechnical

Section 6.3.4 Design and Safety Requirements

1. Changed Public Works Department to Engineering Services Department.

Section 7 – Drainage

Section 7.3.6.4 Minimum Clearances

1. Added text for clarification of vertical clearance minimums.

Section 7.4.5 Operation & Maintenance

1. Clarified recording of the Stormwater O & M Agreement.

Appendix R – Storm Sewer Details and Standard Drawings

1. Detail 7.08 – Added clarification to the HDPE note.