APPENDIX A

Index of Tables, Diagrams, Certifications, and Permits:

<u>Tables</u>	<u>s</u>	<u>Page No</u>
A1	STANDARDS OF STREET DESIGN	A-2
A2	STOPPING SIGHT DISTANCE	A-3
A3	DESIGN INTERSECTION SIGHT DISTANCE, LEFT TURN FROM STOP	A-3
A4	GREENWAY MINIMUM STOPPING SIGHT DISTANCE	A-4
A5	SANITARY SEWER PIPE SIZING & MATERIAL	A-4
A6	WATER DISTRIBUTION PIPE SIZING & MATERIAL	A-4
A7	MANDREL DIMENSIONS	A-5
A8	MAXIMUM COVER FOR POLYPROPYLENE PIPE	A-5
A9	CASING PIPE SIZES	A-5
A10	AIR TEST TABLE	A-6
A11	PUBLIC UTILITY EASEMENT WIDTH CHART	A-7
<u>Diagra</u>	<u>ams</u>	
A1	DEAD-END FIRE APPARATUS ACCESS ROAD TURNAROUND	A-8
A2	INTERSECTION GRADES	A-9
A3	RETAINING WALLS	A-10
Certifi	ications	
	M DRAINAGE AS-BUILTS	A-11
STOR	MWATER CONTROL MEASURE S(SCM)	A-12
	INING WALLS	A-13
BRIDO	GES	A-14
EMBA	NKMENTS	A-15
<u>Permi</u>	<u>ts</u>	
CITY I	EROSION CONTROL PERMIT (for projects < 1.0 ac)	A-16
RESID	DENTIAL DRIVEWAY PERMIT	A-18
RIGH	T-OF-WAY EXTENSION/SERVICE PERMIT	A-19

A-1 Appendix A

TABLE A1 – STANDARDS OF STREET DESIGN

Street Type	Alley	Local	Collector	Thoroughfare
Average Daily Traffic (ADT)	100	250	3000 Major 1000 Minor	8000 Major 4000 Minor
Longitudinal Grade Min	1%	1%	1%	
Max: level/rolling	10 %	10 %	8 %	
hilly	10 %	10 %	10 %	
(stop/yield) at intersection	5 %	2 %	2 %	See
(thru movement) at intersection	5 %	5 %	5 %	Thoroughfare Plan
Within 100' of an intersection	5 %	5 %	5 %	
Min Horizontal Centerline Curve Radius		150'	230'	
Min Tangent between Reverse Curves		50'	100'	
Street Intersection Radius ⁽⁶⁾	20'		30'	
Design Speed Min	15 mph	25 mph	25 mph	
Max	15 mph	35 mph	35 mph	
Design Vehicle	SU-30	SU-30		WB-62
Residential			Bus-45 & SU-30	
Non-Residential			WB-62 or WB-40	
Separation (1)(2)(3) driveway - driveway	40'	40'	120'	400'
driveway – intersection (corner clearance)	25'	60'	120'	250'
driveway - residential prop. line	5'	5'	5'	5'
driveway - non-residential prop. line	10'	10'	10'	10'
intersection - intersection	N/A	200'	200'	600'-1000'
Pavement Schedule (4)(5)				
surface course (S9.5C)	2"	2-1" Lifts	2-1" Lifts	
intermediate course (I19.0C)	0"	2.5"	2.5"	See NCDOT Roadway Design
base course (residential)		8" ABC or 4" B25.		Standards
base course (non-residential)	N/A	10" ABC	or 5" B25.0C	
Dead-End Fire Apparatus Access Roads				
Length	0-150'	150'-500'	500'-750'	750'+
Width	20'	20'	26'	
Vertical clearance	13.5'	13.5'	13.5'	Special
Maximum grade	10 %	10 %	10 %`	Approval
Turnaround required	None	96' ø (60' "Y" Cul-De-Sac head (Temporary)	Required
Max Cul-de-sac Lengths				
Zoning	R4, R8	AG, R1, R2	CD, LI, HI	MU, O-I, C-1, GC, PD
	800'	1000'	1500'	500'
		R	18, CC	
			300'	

A-2 Appendix A

Notes:

- 1. Single-family dwellings and duplex dwellings on individual lots shall be exempt from the minimum separation between driveways as shown in the table above. However, such driveways shall maintain a minimum of 5' of side clearance from residential property lines and 10' for all others.
- 2. City streets: proposed streets which intersect opposite sides of another street (either existing or proposed) shall be laid out to intersect directly opposite each other. Intersections which cannot be aligned shall be separated by a minimum length of **200'** between survey centerlines.
- 3. For state-maintained streets, reference the NCDOT Policy on Street and Driveway Access to North Carolina Highways.
- 4. Non-residential street pavement design shall be evaluated on a case-by-case basis.
- 5. Prior to substituting B25.0C, approval shall be obtained from the Public Works Director.
- 6. Radius measured from edge of pavement.

TABLE A2 - STOPPING SIGHT DISTANCE

	MINIMUM STOPPING SIGHT DISTANCE (ft)												
Vehicle Speed (mph)	U	IPGRADE	S	FLAT	DO	WNGRAD	ES						
	9 %	6 %	3 %	0 %	-3 %	-6 %	-9 %						
25	140	145	150	155	160	165	175						
30	180	185	200	200	205	215	230						
35	225	230	240	250	260	275	290						
40	270	280	290	305	315	335	355						
45	320	320 330 345			380	400	430						
50	375	390	405	425	450	475	510						

TABLE A3 - DESIGN INTERSECTION SIGHT DISTANCE, LEFT TURN FROM STOP

Design Speed (mph)	Stopping Sight Distance	Intersection Sight Distance for Passenger Cars				
	(ft)	Calculated (ft)	Design (ft)			
			. ,			
15	80	165.4	170			
20	110	220.5	225			
25	155	275.6	280			
30	200	330.8	335			
35	250	385.9	390			
40	305	441.0	445			
45	360	496.1 500				
50	425	551.3	555			

A-3 Appendix A

TABLE A4 - GREENWAY MINIMUM STOPPING SIGHT DISTANCE

Α	Е	nglish	Units -	- Minim	um Le	ngth of	f Crest	Vertica	al Curv	e (L) B	ased on	Stoppi	ng Sigh	t Distan	се
%	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300
2												30	70	110	150
3								20	60	110	140	180	220	260	300
4						15	55	95	135	175	215	256	300	348	400
5					20	60	100	140	180	222	269	320	376	436	500
6				10	50	90	130	171	216	267	323	384	451	523	600
7				31	71	111	152	199	252	311	376	448	526	610	700
8			8	48	88	128	174	228	288	356	430	512	601	697	800
9			20	60	100	144	196	256	324	400	484	576	676	784	900
10			30	70	111	160	218	284	360	444	539	640	751	871	1000
11			38	78	122	176	240	313	396	489	592	704	826	958	1100
12		5	45	85	133	192	261	341	432	533	645	768	901	1045	1200

- 1. When S>L = 2S 900/A
- Shaded area represents S = L
- 2. When $S < L = AS^2/900$
 - L = Minimum Length of Vertical Curve (ft)
 - A = Algebraic Grade Difference (%)
 - S = Stopping Sight Distance (ft)

Height of Cyclist's Eye = 4.5'

Height of Object = 0'

Minimum Length of Vertical Curve = 3'

Source: AASHTO, Guide for the Development of Bicycle Facilities

TABLE A5 – SANITARY SEWER PIPE SIZING & MATERIAL

Material	Pipe Diameter (in)
Solid wall ASTM D3034, SDR 35, Cell Classification 12454	4 -15
Profile wall ASTM F794 Stiffness PS46	18 - 48
Ductile Iron Pipe (DIP) Class 50	All Sizes

TABLE A6 – WATER DISTRIBUTION PIPE SIZING & MATERIAL

Material	Pipe Diameter (in)
PVC SDR 13.5	2 - 4
PVC C900	6 - 12
Ductile Iron Pipe (DIP) Class 350	3 - 12
Ductile Iron Pipe (DIP) Class 250	16 +

A-4 Appendix A

TABLE A7 – MANDREL DIMENSIONS

Pipe Type	Pipe Diameter	Minimum Inside Diameter	Inside Diameter with 5% Deflection
	15"	14.85	14.11
Dual Wall	18"	17.93	17.03
ວິ≋ັ	24"	23.90	22.71
	30"	29.89	28.30
	30"	29.62	28.14
_ =	36"	35.40	33.63
riple Wall	42"	41.31	39.24
= >	48"	47.31	44.94
	60"	59.30	56.34

TABLE A8 – MAXIMUM COVER FOR POLYPROPYLENE PIPE

Diameter	Class 1 Class 2				Clas	Class 3 Class 4		
	Compacted	95%	90%	85%	95%	90%	95%	
12"	39	27	20	9	21	12	11	
15"	42	29	21	10	22	12	11	
18"	36	25	18	9	19	12	11	
24"	31	22	16	7	16	11	10	
30"	33	23	17	9	17	11	10	
36"	32	22	16	7	16	11	10	
42"	32	22	15	7	16	11	10	
48"	31	21	15	6	15	10	9	
60"	34	23	16	6	16	11	10	

TABLE A9 CASING PIPE SIZES

	HIC	HWAY	RAILROAD			
Pipe Diameter	Casing O.D.	Min. Wall Thickness	Casing O.D.	Min. Wall Thickness		
6"	12.75"	0.188"	12.75"	0.250"		
8"	18"	0.250"	18"	0.312"		
12"	24"	0.250"	24"	0.406"		
16"	30"	0.312"	30"	0.500"		
24"	36"	0.375"	36"	0.5625"		

A-5 Appendix A

TABLE A10 - AIR TEST TABLE

Length of									
Line (ft)	4	6	8	10	12	15	18	21	24
25	0:04	0:10	0:18	0:28	0:40	1:02	1:29	2:01	2:38
50	0:09	0:20	0:35	0:55	1:19	2:04	2:58	4:03	5:17
75	0:13	0:30	0:53	1:23	1:59	3:06	4:27	6:04	7:55
100	0:18	0:40	1:10	1:50	2:38	4:08	5:56	8:05	10:34
125	0:22	0:50	1:28	2:18	3:18	5:09	7:26	9:55	11:20
150	0:26	0:59	1:46	2:45	3:58	6:11	8:30	9:55	11:20
175	0:31	1:09	2:03	3:13	4:37	7:05	8:30	9:55	11:20
200	0:35	1:19	2:21	3:40	5:17	7:05	8:30	9:55	11:20
225	0:40	1:29	2:38	4:08	5:40	7:05	8:30	10:25	13:36
250	0:44	1:39	2:56	4:35	5:40	7:05	8:31	11:35	15:07
275	0:48	1:49	3:14	4:43	5:40	7:05	9:21	12:44	16:38
300	0:53	1:59	3:31	4:43	5:40	7:05	10:12	13:53	18:09
350	1:02	2:19	3:47	4:43	5:40	8:16	11:54	16:12	21:10
400	1:10	2:38	3:47	4:43	6:03	9:27	13:36	18:31	24:12
450	1:19	2:50	3:47	4:43	6:48	10:38	15:19	20:50	27:13
500	1:28	2:50	3:47	5:15	7:34	11:49	17:01	23:09	30:14

Note: If the length of sewer to be tested is submerged or partially submerged in groundwater, the test pressure shall be increased as required to overcome the actual static pressure exerted by the groundwater. If a test pressure greater than 8 psi results, air testing shall not be used and exfiltration testing will be required.

A-6 Appendix A

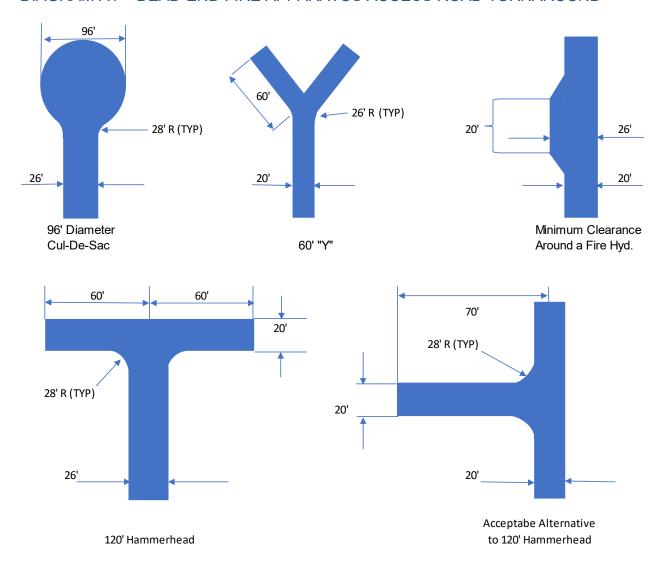
TABLE A11 – UTILITY EASEMENT WIDTH CHART

	SEWER MAIN PIPE													
Diameter	Diameter	Diameter Min. Bottom Max. depth to bottom of pipe @ Esmt Width (ft)												
(in)	(ft)	Width (ft)	20' 25' 30' 35' 40' 45'											
8	0.67	2.67	8.67	11.17	13.67	16.17	18.67	21.17						
12	1.00	3.00	8.50	11.00	13.50	16.00	18.50	21.00						
16	1.33	3.33	8.33	10.83	13.33	15.83	18.33	20.83						
24	2.00	4.00	8.00	10.50	13.00	15.50	18.00	20.50						
* - Depth be	yond those sh	own on this char	t shall requ	ire additiona	al easement	width to th	e nearest 5'	increment.						

	STORM PIPE								
Pipe Inner	Pipe Inner Wall Pipe Min. Max. depth to bottom of pipe @ Esmt Width (ft.)					ft.)			
Diameter (in)	Thickness (in)	Outer Diameter (ft)	Bottom Width (ft)	20'	25'	30'	35'	40'	50'
15	2.25	1.63	3.63	8.19	10.69	13.19	15.69	18.19	20.91
18	2.50	1.92	3.92	8.04	10.54	13.04	15.54	18.04	20.98
24	3.00	2.50	4.50	7.75	10.25	12.75	15.25	17.75	21.13
30	3.50	3.08	5.08	7.46	9.96	12.46	14.96	17.46	21.27
36	4.00	3.67	5.67	7.17	9.67	12.17	14.67	17.17	21.42
42	4.50	4.25	6.25	6.88	9.38	11.88	14.38	16.88	21.56
48	5.00	4.83	6.83	6.58	9.08	11.58	14.08	16.58	21.71
54	6.25	5.54	7.54	6.23	8.73	11.23	13.73	16.23	21.89
60	6.75	6.13	8.13	5.94	8.44	10.94	13.44	15.94	22.03
66	7.25	6.71	8.71	5.65	8.15	10.65	13.15	15.65	22.18
72	7.00	7.17	9.17	5.42	7.92	10.42	12.92	15.42	22.29

A-7 Appendix A

DIAGRAM A1 – DEAD-END FIRE APPARATUS ACCESS ROAD TURNAROUND

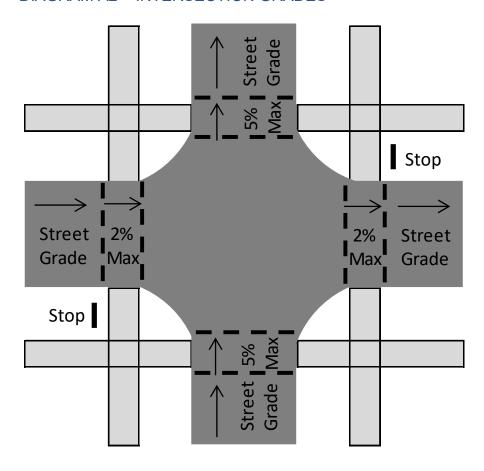


Notes:

- 1. Turnarounds to be contained within R/W.
- 2. Acceptable pavement schedule alternative is 6" ABC, Geotextile, 12" min compacted subgrade to be approved by the Director of Engineering.

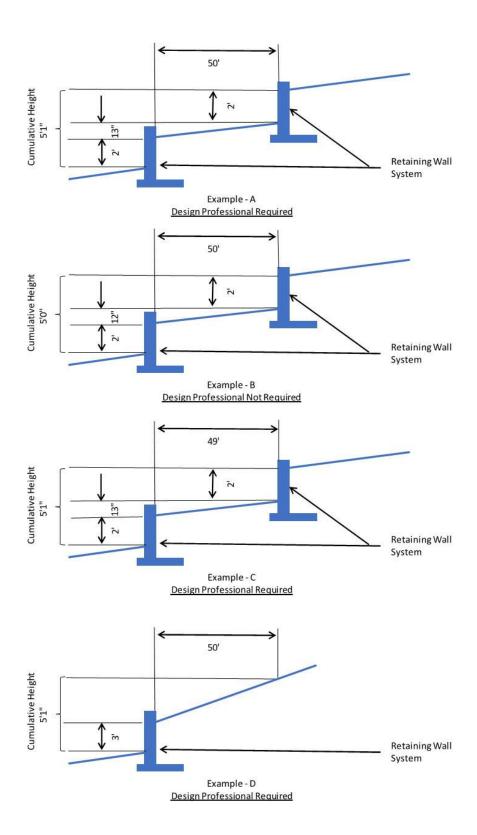
A-8 Appendix A

DIAGRAM A2 - INTERSECTION GRADES



A-9 Appendix A

DIAGRAM A3 - RETAINING WALLS



A-10 Appendix A

STORM DRAINAGE CONVEYANCE SYSTEM CERTIFICATION

As-Built Certification

I,, attest that this	s certification, for the	Project, has been reviewed
by me and is accurate, complete and co	onsistent with the information	n supplied in the plans, specifications,
engineering calculations, and all other	supporting documentation to	the best of my knowledge. I further
attest that to the best of my knowledge	the Storm Drainage As-Built	Plans have been prepared based on
an accurate account of the stormwater	piping and appurtenances	installed during construction and any
deviations from the approved construction	on plans shall not adversely i	mpact the drainage system, discharge
points, and/or adjacent properties analyz	zed during the approval proce	ess of the construction plans. Although
other professionals may have develop	ed certain portions of this s	submittal package, inclusion of these
materials under my signature and seal s	signifies that I have reviewed	this material and have judged it to be
consistent with the proposed design.		
SEAL:		
(Date)		(Signature)
	Engineer:	
	Firm:	
	Firm License #:	
	Address:	

A-11 Appendix A

STORMWATER CONTROL MEASURE (SCM) CERTIFICATION rev 10-22

As-Built Certification

I,, attest t	that this certification, for the	Project, has been
reviewed by me and is accurate	e, complete and consistent w	ith the information supplied in the plans
specifications, engineering calcu	ulations, and all other suppo	orting documentation to the best of my
knowledge. I further attest that to	the best of my knowledge the	As-Built Plans have been prepared based
on an accurate account of the S0	CM and appurtenances install	ed during construction and any deviations
from the approved construction pl	ans were analyzed and verifie	d to not adversely impact the performance
of the SCM during the approval p	rocess of the construction plan	s. Although other professionals may have
developed certain portions of this	submittal package, inclusion	of these materials under my signature and
seal signifies that I have review	ed this material, conducted a	physical site visit, verified all applicable
vegetative plantings have been in	stalled, and have judged it to I	be consistent with the proposed design.
SEAL:		
SLAL.		
(D. +)		(0:
(Date)		(Signature)
	Engineer:	
	Firm:	
	Firm License #: Address:	
	Address.	

A minimum of 3 photographs of each SCM are required as part of the certification.

A-12 Appendix A

RETAINING WALL CERTIFICATION

As-Built Certification

I,, attest tha	t this certification, for the	Project, has been
reviewed by me and is accurate, of	complete and consistent with th	e information supplied in the plans,
specifications, engineering calculat	tions, and all other supporting	documentation to the best of my
knowledge. I further attest that to the	e best of my knowledge the As-B	Built Plans have been prepared based
on an accurate account of the retain	ning wall system and appurtenan	nces installed during construction and
any deviations from the approved co	onstruction plans were analyzed	and verified to not adversely impact
the performance of the wall system	n analyzed during the approva	I process of the construction plans.
Although other professionals may ha	ave developed certain portions c	of this submittal package, inclusion of
these materials under my signature a	and seal signifies that I have revi	ewed this material and have judged it
to be consistent with the proposed d	esign.	
SEAL:		
(Date)		(Signature)
	Engineer: Firm:	
	Firm License #:	
	Address:	

A-13 Appendix A

BRIDGE CERTIFICATION

As-Built Certification

I,, attest that the	is certification, for the	Project, has been
reviewed by me and is accurate, com	plete and consistent with th	e information supplied in the plans,
specifications, engineering calculation	s, and all other supporting	documentation to the best of my
knowledge. I further attest that to the b	est of my knowledge the As-B	uilt Plans have been prepared based
on an accurate account of the bridge a	nd appurtenances installed du	uring construction and any deviations
from the approved construction plans w	ere analyzed and verified to r	not adversely impact the performance
of the bridge analyzed during the appro-	val process of the construction	n plans. Although other professionals
may have developed certain portions	of this submittal package, in	clusion of these materials under my
signature and seal signifies that I have	reviewed this material and ha	ve judged it to be consistent with the
proposed design.		
SEAL:		
(Date)		(Signature)
	Engineer:	
	Firm:	
	Firm License #:	
	Address:	

A-14 Appendix A

CERTIFICATION OF EMBANKMENTS

As-Built Certification

I,, attest that thi	s certification, for the	Project, has been
reviewed by me and is accurate, com	plete, and consistent with the	information supplied in the plans,
specifications, and all other supporting	documentation to the best of my	knowledge. I further attest that to
the best of my knowledge the As-Built	Plans have been prepared bas	ed on an accurate account of the
embankment fill elevation, compaction,	slope, and slope protection mat	terials installed during construction
and any deviations from the approved co	onstruction plans were analyzed	and verified to not adversely impact
the performance of the embankment du	ring the approval process of the	construction plans. Although other
professionals may have developed cert	ain portions of this submittal pa	ckage, inclusion of these materials
under my signature and seal signifies th	at I have reviewed this material	and have judged it to be consistent
with the proposed design.		
SEAL:		
(Date)		(Signature)
	Engineer:	
	Firm:	
	Firm License #:	
	Address:	

A-15 Appendix A

EROSION CONTROL PERMIT APPLICATION

Applic	licant Contact Information	
Name:	ne:	
Phone	ne:	
Projec	ect Information	
Туре о	e of Construction: (Residential/Commercial):	
Addres	ress:	
Parcel	cel & Lot #:	
Disturb	urbed Area (ac):	
Date o	e of land disturbing activity:	
Applic	olicant agrees to the following items:	
1.	1. Call One-Call before digging 811 or 1-800-351-1111 and allow 3 b	usiness days before digging.
2.	Install and maintain in proper working order, erosion control mea sedimentation from leaving the construction site.	asures as needed to prevent
3.	3. Remove any sediment and or aggregate discharged onto streets	immediately.
Applies	licent Cignoture	Data
Applica	licant Signature	Date

A-16 Appendix A



Planning Department 401 Laureate Way Kannapolis, NC 28081 704.920.4350 Planningapps#kannapolisnc.gov

RESIDENTIAL INSPECTION REQUIREMENTS

There are currently four inspections that will need to be performed by Kannapolis before you will be able to obtain a CO on the structure. All inspections will be scheduled through Accela the same way that building inspections are scheduled. Below are the four inspection types with a short description of when and what will be needed for the inspection. The request for inspection must be entered before 4 PM to get inspection on the next business day. No specific inspection time will be provided.

1. Driveway Pipe Review:

- This inspection will be after the pipe is in place but not covered
- Verify the correct type of the pipe and installation

2. Driveway Review:

- This inspection should be requested after all forms for Driveway and Sidewalk are in place.
- All soft areas in the subgrade have been repaired.
- Before any concrete is poured.
- This will be for all driveway and sidewalk located within the right of way.
- Driveway and Sidewalk must be ready for inspection at the same time.

3. Drainage Review

- This inspection should be requested after sod or seed/straw has been placed.
- Lot is graded in general conformity with the plans.
- Lot grading does not negatively impact adjacent properties.
- Existing infrastructure is not impacted by the development.

4. Water and Sewer Review

- This inspection should be requested after sod or seed/straw has been placed.
- Sewer lateral has cast iron cap with stainless steel band and be set to grade.
- Water meter box and irrigation box (if applicable) set to grade.
- No damage to the boxes or clean out.
- Boxes are clear of mud and debris.

A-17 Appendix A



Planning Department 401 Laureate Way Kannapolis, NC 28081 704.920.4350 Planning@kannapolisnc.gov

RESIDENTIAL DRIVEWAY ACCESS PERMIT APPLICATION

Applicant Contact Information			
Name:			
Phon	e:Email:	_	
Proje	ect Information		
Add	ress: PIN:		
Cont	ractor Name:		
App 1.	olicant agrees to the following items: For driveway, sidewalk, grading, water/sewer inspections: Notify the Kannapolis Engineering Department by requesting an inspection through Citizen Access Accela Citizen Access Please provide the email contact to be used for	_	
Ema	il Contact:		
	these inspections:		
2.	Construct and maintain driveway(s) in absolute conformance with the current "Policy on Street and Driveway Access" as adopted by the City of Kannapolis Land Development Standards Manual		
	The driveway shall be a minimum of 5' from the adjacent property line.		
	Within the right-of-way, the driveway shall be within a min. of 12' and max. of 20' wide.		
	Within the right-of-way, the driveway shall be a min. of 6" thick concrete unless approved otherwise by the Kannapolis Engineering Department.		
	Driveway pipe & subgrade shall be inspected prior to backfill & material placement		
3.	Provide proper signs, traffic control and other warning devices for the protection of traffic in conformance with the current "Manual on Uniform Traffic Control Devices for Streets and Highways" <u>MUTCD</u>		
4.	Contact the City of Kannapolis to determine the required size of RCP/HP pipe that must be installed 704-920-4221.		
5.	By signing below, I here indemnify and save harmless the City of Kannapolis from all damages and claims for damage that may arise by reason of this construction.		
A DDI I	CANT SIGNATURE DATE	_	

A-18 Appendix A



Right-of-Way Extension/Service Permit Application

Provide the following information for the construction of facilities in the right-of-way:

Owner/Operator	of Proposed Line:			
Contact Represe	entative & Position:			
Address:				
Phone:	Em:	ail:		
Contractor of Pro				
Address:				
Phone:	Em:	ail:		
Representative &	2 Desition:			
Sub-Contractor	of Proposed Line:			
Address:				
Phone:	Em:	ail:		
Representative &	& Position:			
List Additional Sub-Contractors and Their Information on Back of Page.				
List All Road Rig	ghts-of-Way (City and NCD	OOT) and/or City Easement	ts Where Installation/Cons	struction is Proposed:
Type of Utility/Extension Service:				
	Diameters	Materials	Length of Pipe	
				1

Diameters	Materials	Length of Pipe

The following requirements and conditions apply to entities requesting installation/construction within rights-ofway/easements within Kannapolis city limits and where Kannapolis utilities are located (this includes NCDOT roadways/rights-of-way and Kannapolis roadways/rights-of-way):

- The contractor shall contact the City of Kannapolis Engineering Department, 704-920-4200, prior to beginning work. within the city limits in order to have an inspector assigned to the project. A preconstruction conference is required between the contractor and all sub-contractors with the City's Inspector.
- 2. The Owner, Operator and/or Contractor shall be responsible for any repairs necessitated by damage that is caused to roadways, sidewalks, landscaping, utilities and all areas within the City of Kannapolis and/or NCDOT rights-ofway or property to the satisfaction and at the direction of the Director of Engineering.
- 3. The City of Kannapolis Land Development Standards Manual (LDSM) shall be followed.
- Directional boring under roadway crossings shall be a ten (10) foot minimum depth under roadways. Also, directional boring shall be at a four (4) foot minimum depth below ground surface.
- All other boring procedures shall be at a four (4) foot minimum depth under roadways and below ground surface.
- 6. The following clearance from the outside wall of any structure, footing or pipe culvert (including tunnels, water lines, sanitary sewer lines, and storm lines) is required:
 - a five (5) foot horizontal clearance from the outside wall; or
 - a five (5) foot vertical clearance with a two (2) foot horizontal clearance from the outside wall
- 7. Provide videos of the installation areas (rights-of-way and easements) before and after construction to the City's Inspector, to determine damage to areas impacted during construction.
- 8. Any sidewalk damaged during construction of the lines shall have the entire panel removed and replaced as part of the repair. Partial repairs of panels shall not be permitted.
- The City of Kannapolis Standard Drawing, "Utility Cut Pavement Repair, #109" shall be used for pavement patching.
 The City of Kannapolis Standard Drawing, "Concrete Sidewalks, #117" shall be used for concrete sidewalk repair. The City's Inspector assigned to the project will provide additional standard drawings that apply to the project.
- A pre-pour and/or pre-paving meeting and subgrade check with the City's Inspector will be required prior to any concrete pours and/or asphalt placement.
- 11. The use of City water to perform construction activities shall be metered per Land Development Standards Manual Chapter 1 A. General Note 9.
- 12. As-built drawing, CAD file, shape files, and/or boring logs shall be submitted to City within thirty (30) days upon completion of project.
- 13. Work hours are between 7am to 5pm on weekdays. Work shall not be performed on weekends (Saturday-Sunday) or on City observed holidays.

The Engineering Director may impose additional and reasonable conditions upon the granting of any permit. In the case of

		City reserves the right to stop all v f-way/easement at no cost to City.	work until the facility has been brought into
Applicant Aut	horized Representative	Acknowledgement:	
Owner/Operato requirements p	or/Contractor/Sub-Contra	ctor. I agree to the conditions listed at oplication. I certify that all of the info	t and the requirements placed upon the bove to the best of my ability and will fulfill the rmation presented in this permit application
Printed Name,	Title	Signature	Date
		City of Kannapolis Use Only	4
This Right-of-	Way Extension/Service	Request is:	
		is project. City reserves the right to st	val by City shall be made available at all op all work unless evidence of approval can
	Revise and Resubmit Provide the foll		
	Rejected		
	Approved (A copy of to construction sites for the be shown.) With the following Revise and Resubmit Provide the following Provide	this permit showing evidence of appro- is project. City reserves the right to sto ing conditions:	

Printed Name, Title

Signature

Date