General Information					Version #	
Developer/Owner		Surveyor				
Subdivision Name		Engineer				
Location Address		Num	ber o	f Lots		
Ward, Section, Township, Range		Avg.	Lot A	creag	e	
Total Acreage		Sewe	or Dis	nosal	Type	Individual / Community
Water Supply Type	Private / Individual / Public	Sewer Ownershin				Private / Public
All items are required to be answe	ered. If marked N/A. provide a comment	. Use a	addit	ional	sheets for	comments as needed.
Planning Requirements		Yes	No	N/A	Commen	ts
1. Preliminary Plat approval						
2. Runoff Management Plan (RM	1P) approval					
3. Traffic Impact Analysis (TIA) a	pproval					
4. 4 hard copies of documents	PP. 0. 2.					
5. 2 electronic copies of docume	ents following CPPJ naming convention					
a. Development name (Phase	e#) - submittal v# - document type					
1. Subdivision (Phase 1) -	Eng Plans v1 - Transmittal Letter					
b. Include CAD drawings or of	ther files necessary for review					
Resubmittal Requirements:						
6. Submittal version number						
7. Comment response letter						
8. Revision(s) clearly marked on	all documents					
Submittal Contents						
9. Document standards						
a. Sheet sizes - scales						
1. 11"x17" - Max 1"=50'						
2. 22"x34" – Max 1'=100'						
3. 24"x36" – Max 1'=100'						
b. Minimum text size shall be	0.07 times the printed scale					
10. Cover Page			<u> </u>	ļ		
a. Name of:			_			
1. Subdivision (w/ Phase	number)		+			
2. Owner/Applicant/Deve	eloper		+			
b. Signed and stamped by inc	lividual who prepared plans					
11. Preliminary Plat			+			
a. Revisions based on previou	us comments					
12. Typical Sections						
a. Other Allocation Plan (UAR	5]	+	+			
2. Note on plans stating:		+		+		
a "All utilities shall fr	pllow the UAP."		-	+		
b. Variances highlight	ed		-	-		
b. Roadway typical		1	1	1		
1. Specify CPPJ Type 90 V	VCP asphalt wearing course					

13. Road Design				
	Yes	No	N/A	Comments
a. Plan and profile sheets				
1. Scaled				
2. Existing grades				
3. Proposed grades				
4. Horizontal curve data		<u> </u>		
5 Vertical curve data	+			
6 Right of way labeled and dimensioned				
h Minimum 25' turnout radius		-		
c Street jogs not less than 125'	+	-		
d. Cul-de-sacs shall provide a minimum turning radius of 50'	+			
a. Special details				
14 Drainage	+	-		
14. Dialitage	+			
a. Watershed boundary map	+	+		
1. Overall hydraulic length	+			
2. Sub basins	+			
3. Slopes of all watercourses	+			
b. Pre-grading topographic plan				
c. Post- grading topographic plan				
1. 5' major contours				
2. 1' minor contours				
3. Delineation of all fill placed on site		ļ		
4. Fill above natural ground shall not be planced any closer than				
5' from the property line.				
d. Site plan				
1. Lot owner shall provide the proper grading of lots to match the lot flow arrows identifying the grading requirements				
shown on the drainage plan."				
2. "All ditches are designed as permanently opened ditch				
and shall not be piped in."				
e. Drainage structure tables				
1. Velocity				
a. Min 3 fps				
b. Max 10fps				
2. Flow				
3. Pipes				
a. Material				
1. Pipes follow EDSM ii.2.1.1				
b. Size				
c. Cover (min. 1' from top of base)				
d. Grade				
e. minimum pipe size 18"				
4. Catch basins/yard drains/trash racks				
а. Туре				
b. Depth (min. 6" from top of pavement)				
c. CB's at lot lines with no more than 300' spacing				
1. Minimum 24" opening				

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		2. Meet HS-20 loading				
	d	. Yard drain diameters				
	_	1. Pipes <18", 12" dia drain				
			Yes	No	N/A	Comments
		2. Pipes >18", 15" dia drain			-	
		3. Shall be at lot lines or every 75'				
		4. Meets HS-20 loading				
	e	. 12" clearance above or below utilities or a conflict box				
	f	Trash racks				
		1. Sloped				
		2. Area of the trash rack shall be a minimum of 10 times				
		the area of the orifice				
		3. Shall extend away from the outlet				
		4. 6"x6" openings				
		5. Anti-corrosive material				
f. 1	Plan	profile sheets				
	1. S	caled				
	2. E	xisting grades				
	3. P	roposed grades				
	4. ⊦	lorizontal curve data				
	5. V	ertical curve data				
l le	6. R	ight of way labeled and dimensioned				
	7. H	lydraulic grade line's plotted on plan/profile sheets				
1	8. H	lydraulic grade line shall not exceed edge of pavement				
9	9. C	pen channels				
	10. P	ond outfalls				
	11. A	ny other structures not in the road right of way				
g	Туріс	al pond cross sections				
	1. N	lormal water surface elevation				
	2. P	eak water surface elevation				2
	3. N	Ainimum 1' of freeboard				
h. I	Bridg	e designs				
15. Op	en C	nannel				
a. I	Desig	gn Criteria				
	1. N	Ainimum freeboard of 1' for depths less than/equal to 8'				
	2. N	Ainimum freeboard of 2' for depths greater than 8'				
	3. N	Ain. radius curvature of 3x top width for earthen channels				
	a	. Min. width of 30' measured from top of the proj. bank				
	b	. Min. width may be reduced to 1.2x for erosion protected				
	C	. For earthen channels not meeting rec. radius of curvature,				
		erosion protection shall be req'd along the outer channel				
		bank, extending to a minimum of 100' upstream and				
_		downstream of the bend.				
4	4. N	Nax. intersection angle 90 degrees. Erosion protected req' at				
	а	Il intersections not req'd to be enclosed				
	5. ι	Itility lines that pass under channel, top of line min. 10'				

	Ĩ.	below channel flow line and 20' horizontally from side slope		
	6.	Channel blocks installed at confluence of existing/proposed		
		open channels.		
	L	a. Outfall pipe properly protected against scour/erosion at		
		both ends of pipe		
	7.	Lateral ditches from street to outfall channel that traverse		
		lots enclosed with storm drain nine		
	8	Open ditches for roadside drainage designed according to		
	0.	ADOTD Hydraulics Manual unless otherwise noted		
	9.	Channel velocities >5fps, adequate erosion protection reg'd		
		at all bends, confluences and outfalls of laterals		
6. D	raina	age Easements (provided where watercourse traverse dev.)		
a	No	t subject to RMP waivers, shall be dedicated for all new dev	-	
h	3.1	slope from toe existing bank to existing natural ground level		
C.	Ma	aior Watercourse		
<u>.</u>	1	Min_width of 30' measured from top of the proj. bank		
	2	Provided on each side for exist /prop. "major" watercourses	 	
d	12. Mi	por Watercourse		
lu.	1	Min_width of 10' measured from top of the proj. bank		
	2	Browided on each side for exist (prop. "minor" watercourses		
	<u>En</u>	closed Watercourse		
e.		Min_width of 20' contored along the contorline		
	1.	Should be dedicated as as not to be contered on let lines	 	
	2.	Should be dedicated so as not to be centered on lot lines	 	
	3.	36 - 54 : minimum 20 additional easement		
	4.	60 - 120 : minimum 25 additional easement		
	5.	Above 120": as specified by the parish engineer		
		a. In all cases, easement widths above to be min. guidelines		
		b. Subject to be changed by jurisdictional gravity drainage		
		board or parish engineer	 	
T.	IVIa	aintenance Easement Standards		
	1.	Major watercourse easments min. 50' maintenance easement	 	
	2.	Not subject to RMP waivers, shall be dedicated for new dev.		
	3.	Shall remain on same side of lateral for entire length		
g.	Ad	ditional Requirements		
	1.	When prop. drainage system will carry water across private		
		land outside boundaries of the development, developer		
		must obtain the appropriate draininage/maintenance		
		easements across said abutting properties from the boundary		
		of the development to the nearest public maintained outfall		
	<u> </u>	prior to the final approval.		
h.	De	dication of Drainage and Maintenance Easements		
	1.	For more than 1 lot, enclosed with drop pipe		
	2.	Parish eng/gravity drainage to approve drainage structure		
		crossing gravity drainage easements		
	3.	Utility/drainage eastements for major/intermediated/minor		
	1	drainage laterals/watercourses may cross, not overlap		
.7. De	eten	ntion Pond Design		

1

a. Designed to full spectrum of storm frequencies		1				
h Check 100 vr storm w/ spillway						
c. Detention shall be offline/not incorp. into existing watercourse						
d Basins shall be designed minimum 5:1 side slones						
e. Embankment slones shall be stabilized to prevent erosion						
f. Minimum embankments of 6' around ton width						
Wet basing a minimum permanent peol denth of E'						
g. Wet basins, a minimum permanent pool depth of 5						
Sewer einwent discharge shall hot route through						
2. Individual treatment plans will not be permitted unless						
appropriate water quality has been addressed.						
n. Dry basins						
1. A low-flow drainage channel directed to structure						
a15 cfs per acre drained						
b1% slope towards outlet structure						
c. Sewer discharge shall not route through dry pond unless						
1. Concrete lined low flow						
2. Enclosed low flow						
i. Outlet struct. shall be designed maintenance free concrete weirs						
j. Must re-establish full storage capacity in no longer than 30 hours		-				
k. Design calculations must include:						
1. Stage storage/stage discharge relationships						
2. Development inflow hydrographs for full spectrum						
3. Routing calculations & outflow hydrographs for full spectrum						
4. Outlet structure details						
a. Construction drawings						
b. Specification						
I. Bridge designs						
8. Private Alleys						
a. Secondary access						
b. Right of ways, intersections, curves						
1. Two-way alley						
a. ROW not less than 20'						
b. Minimum paying width 18'						
2. One-way alley						
a. ROW not less than 14'						
b. Minimum paving width 12'						
3 Intersections at right angles						
4. At least 30' angular cutback at corners of intersections						
h Dead end alleys						
1 No longer than 1000' from nearest ROW intersection						
2 Over 150' must have cul-de-sac						
a 50' ROW radius minimum						
h 35' minimum navement radius						
9 Sower	+ + +					
a Collection system (These design guidelines supplement requiremen	ts by La DEO	La DHH EPA 10 States				
Standards and ASTM Where conflicts may exist the more stringer	nt requireme	nt shall apply These				
guidelines are intended to apply to private developments intended for Parish acceptance for ownership,						

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ope	operation and maintenance. Gravity line size will typically be twelve inches or less.)								
1.	Minimum collection pipe size is 8"								
2.	Service line size								
	a. 4" for single resident								
	b. 6" for multi-resident								
3.	Gravity sewer pipe stone backfill encapsulated with								
	geotextile fabric								
4.	Manholes at all								
	a. Alignment changes								
	b. Upstream terminal points								
	c. Changes in pipe								
	d. Force main connections								
	e. At intervals not to exceed 400'								
	1	Yes	No	N/A	Comments				
5	Minimum 48" inside diameter of manhole	1.00		,					
<u> </u>	$a_{\rm r} = 60^{\circ}$ if nine diameter is 24-less than 30°								
	b $72^{\prime\prime}$ if ning is 30 -less than $36^{\prime\prime}$		-						
	b. 72 If pipe is 50-less than 50		-						
G	C. 56 of greater pipe requires a junction box								
0.	waterproof wrong								
-	waterproof wraps								
/.	Interior of select mannoles sealed/treated for corrosion								
	protection by an approved system.								
8.	Elevations of manhole lids at or above finished grade.								
9.	Flow rates based on 4.0 persons per household, average daily								
	flow of 100 gallons per capita plus other known discharges								
	with peaking factor formula		 						
10	Maximum invert depth of 10'		<u> </u>						
	a. Greater depths are permitted with design justification	ļ	L						
11	. Drawings indicate pipe	ļ	 						
	a. Size		L						
	b. Material								
	c. Grade								
12	Drawing indicate sewer and manhole								
	a. Locations								
	b. Structural features								
13	. No conflict between sewer collection and service lines with								
	other utilities and drainage structures.								
14	. Critical, controlling, or limiting service elevations identified								
15	. Graphical scales included for reduced size prints.								
16	. For phased projects, each phase of development represented								
17	. Sewer lines designed to service the estimated future service								
	area of all phases								
18	. Maximum design flow depths								
	a. Pipes 15" in dia. or smaller are 50% of inside pipe dia.								
	b. All others are 75"								
19	. Sensitive crossings (pipelines, railroads, state routes, etc.)								

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	are encased.								
b. Lift	Stations (These design guidelines supplement requirements by	La DE	Q, La	DHH,	EPA, NFPA, NEC, and 10 States				
Sta	Standards. Design shall fully comply with NFPA 820, "Fire Protection in Wastewater Treatment and Collection								
Fa	cilities". Where conflicts may exist, the more stringent requirem	ent sl	nall a	oply.	These guidelines are intended				
to	to apply to lift stations rated at 300 GPM or less for private developments intended for Parish acceptance for ownership, operation and maintenance. Guidelines for lift stations in excess of 300 GPM will incorporate the								
ow									
ap	applicable portions herein and address other specifics as determined at a pre-design conference								
with Parish Engineering.)									
1.	Minimum site size of 25'x25'								
2.	Sites with public street frontage have paved								
	driveway connection								
	a. 16' wide								
	b. 6" of concrete, asphalt, or structural equivalent								
		Yes	No	N/A	Comments				
3.	Sites without public street frontage								
L	a. 18' minimum access drive								
	b. 20' minimum dedicated permanent easement	1							
4.	Lift station influent flows through onsite manhole located								
	within the security fence.								
5.	6' minimum metal security fence with 14' gate		1						
6.	³ / ₄ " potable water connection, reduced pressure principle								
	backflow assembly, self-draining freeze resistant hose bib.								
7.	Site lighting 15' tall with manual control switch in the								
	pump control panel.								
8.	Geotechnical investigation		-						
9.	Top of wet well is located at least 1' above 100yr flood								
	elevation and protected from storm water runoff								
10.	Transition grades from top of wet well to natural ground		1						
	not to exceed 6:1								
11.	Pump cycle times equal to or greater than manufacturer's								
	recommendation.								
12.	"Pump Off" control is set six inches higher than the								
	manufacturer's requirement for the most restrictive pump								
	proposed in any phase.								
13.	"Lead Pump On" is set twelve inches below the lowest								
	effluent flow line.								
14.	High water alarm levels set at lowest influent line elevation.								
15.	Grout fill for bottom hopper construction does not encroach								
	on effective volumes used in calculating min. cycle times.								
16.	Wet well structure cast in place or precast concrete sections								
	par ASTM C478.								
17.	Wet well is water tight.								
18	Above ground, self-priming pumps or engineering								
	justification for submersible pumps.								
19.	Electrical design conforms to NEC, NFPA, and other applicable								
	codes, based on hazardous conditions. UL rating based on an								

		environment no less hazardous than a Class 1, Division 1,				
		Group C and D service.				
	20.	Electrical panel and controls are located beneath				
		weather cover.				
	21.	Panel area has overhead lighting.				
	22.	A double throw switch (manual transfer switch) with a				
		generator quick-connect plug is provided at each lift station.				
	23.	Lift stations with a service area of 200 residential lots of more				
		or an average daily flow rate of 100,000 gallons per day or				
		more have permanently connected auxiliary power				
		provided (diesel generator)				
	24.	Design provides for remote monitoring in a manner				
		compatible with the Parish monitoring equipment and				
		operating procedures (SCADA).				
			Yes	No	N/A	Comments
c.	Wa	stewater treatment facility (These design guidelines supplement	requi	reme	ents by	y La DEQ, La DHH, EPA, NFPA,
	NE	C, and 10 States Standards. Design shall fully comply with NFPA 8	820, "	Fire P	rotec	tion in Wastewater Treatment
	and	Collection Facilities". Where conflicts may exist, the more string	gent r	equir	remen	t shall apply. These guidelines
	are	e intended to apply to wastewater treatment facilities rated for le	ess th	an 10	0,000	gallons per day for private
	dev	velopments intended for Parish acceptance for ownership, opera	tion a	nd m	ainter	nance. Guidelines for
	was	stewater treatment facilities of 100,000 GPD or more will incorpo	orate	the a	pplica	ble portions herein and address
	oth	ner specifics as determined at a pre-design conference with Paris	h Eng	ineer	ing ar	nd Public Works. Facilities with
	foo	od service operations in its service area or other such uses not ty	pical o	of res	identi	al, design loadings and
	ope	erational features will require appropriate adjustments to be det	ermin	ed in	pre-d	esign conferencing.
	Re	gardless of guidelines provided, the design shall result in a treat	ment	facilit	ty fully	/ capable of reliability meeting
	reg	ulatory discharge requirements.)				
	1.	I reatment facilities, including trash tanks, flow splitters,				
		aeration units, clarifiers, filtration vaults, chiorine contact				
		champers, metering valits, sampling stations, etc. are				
	2	Constructed of reinforced Portland cement concrete.				
	2.	Access drive meets Parish requirements.				
	5.	sites with public street frontage have paved driveway				
		(16' wide evoluting turneuts)				
	1	(10 wide excluding turnouts)				
	4.	grade are scaled against water infiltration				
	5	6' minimum metal security fonce with 14' gate				
	5.	6' wide stone/concrete perimeter around all sides of				
	0.	treatment plant with 15' on one side				
	7	Wall penetrations in concrete structures are with				
	/ .	ductile iron wall nine				
	8.	Above grade waterlines are insulated and strapped.				
	9.	Above ground self-priming pumps or submersible are				
		provided (providing engineering justification).				
	10.	All pumps have independent check valve and isolation valve.				
	11.	Security lighting provided.				
	12.	Electrical design conforms to NEC, NFPA, and other applicable				
				•		

cc	odes, based of hazardous conditions. UL rating is based on				
ar	n environment no less hazardous than a Class 1, Division 1,				
Gr	roup C and D service				
13. Ele	ectrical panel and controls located beneath weather cover				
w	vith sufficient lighting.				
14. Do	puble throw (manual transfer) switch with a portable				
ge	enerator quick connect plug provided at each facility.				
15. Tr	eatment facilities with service area of 250 residential lots				
or	more, or an average daily flow rate of 100,000 gallons/day				
ha	as a permanently connected auxiliary power source.				
16. Ai	r blowers control provides for Hand/Off Automatic				
(Н	IOA) operation.				
		Yes	No	N/A	Comments
17. De	esign provides for remote monitoring in a manner that is				
со	ompatible with the Parish monitoring equipment and				
op	peration procedures. Includes motor status (on/off/fail)				
an	nd power status.		<u> </u>		
18. M	linimum BOD₅ loading is 200 ppm	L	-		
19. M	linimum TSS loading is 200 ppm	L			
20. Flo	ow rates based on 4.0 persons per household, average daily				
flo	ow of 100 gallons per capita plus other known discharges				
an	nd a peak factor calculated in accordance with the formula:				
Р	F=(18+VP)/(4+VP) PF= Peaking Factor P=Population				
21. M	laximum blower noise is 70db at five feet.		L		
22. Tr	rash trap provided preceding treatment unitsand				
si	ized appropriately.				
23. El	ectromagnetic flow meters or weirs provided.			ļ	
24. Fl	ow splitting structures provided.		-		
25. Ec	qualization to prevent weir overflow provided.	ļ	<u> </u>		
26. Ae	eriation basin provides minimum 24 hour detention time,				
m	ninimum 2.0 mg/l dissolved oxygen concentration, and				
p	eak flow freeboard of 18 inches.	ļ			
27. M	linimum reactor volume no less than 80 cf/lb of BOD ₅ /day.	<u> </u>			
28. Ae	eration system supplies sufficient oxygen to the reactor				
co	ontents to maintain the specified minimum dissolved				
0>	xygen concentration.	ļ	-		
29. Ae	eration compartments each equipped with isolation valves				
w	ith dewatering and bypass capabilities for maintenance.	1			
D	ual aeration tanks required for design flows in excess of				
50	0,000 GPD.		-		
30. Fl	ow velocity in sludge pipe is greater than 2. ft/s.		-		
31. Si	de water depths, used in design calculations are based on	1			
th	ne water depth from the top of the cone (in cone bottom	1			
ta	anks) or from a point 2 feet above the bottom (in flat bottom	1			
ta	anks) to the water surface.				

32. Clarifier has a minimum freeboard of 12 inches at peak flow.			
33. Sludge return, sludge wasting and surface scum removal by			
air lift pumping.			
34. Provisions made for future filtration units (if necessary).			
35. Disinfection facilities made readily accessible and			
operational in all seasons.			
36. Retention time minimum of 15 minutes at peak flow.			
37. Chamber baffled to prevent short circuiting.			
38. Scum baffles provided at discharge.			
39. Units have grated, open top.			
40. Aerated sludge digest provided.			
41. Waste sludge removal rate at least 25% of design average			
wastewater flow rate, but not less than 10 GPM.			

		Yes	No	N/A	Comments
	42. Digester volume at least 3.0 cubic feet per capita with				
	minimum volume of 1,000 gallons.				
	43. Aeration maintains minimum dissolved oxygen level of				
	1.5 mg/L but not less than 30 cfm of air supply per 1,000 cf				
	of tank volume.				
	44. Sludge removal facilities accommodate removal and				
	transport to off-site disposal areas (disposal line, quick				
	connect fitting and plug line).				
20. Ot	her utilities				
a.	Water				
	1. Horizontal alignment				
	2. Vertical alignment				
	3. Fire hydrants				
	a. 1000' maximum spacing				
	b. No area more than 500' away				
b.	Electrical				
	1. Horizontal alignment				
	2. Vertical alignment				
	3. Lighting plan				
c.	Telecommunication				
	1. Horizontal alignment				
	2. Vertical alignment				
21 Ot	her typicals				
a.	Standard typicals for catch basins, fire hydrants, etc.				
22. Tei	mporary erosion control plan				
23. Dr	ainage Calculations binder				
a.	Orifice				
b.	Low flow channel				
c.	Curb inlets				
24. Ma	aterials specifications binder				
a.	Materials				

Signature/Date: _____

	b. Shop drawings		
25.	Schedule for construction and milestones for inspection		
26.	HOA agreements		

I, ______, certify this submittal includes all required information per this checklist. I understand that incomplete or incorrect submittals may be rejected. I understand this submittal is the minimum necessary for review and additional documentation may be requested by Police Jury staff. As per the Calcasieu Parish Code of Ordinances, the Director's recommendation will be issued within twenty (20) working days of each submittal, excluding legal holidays, after determination of submittal completeness.