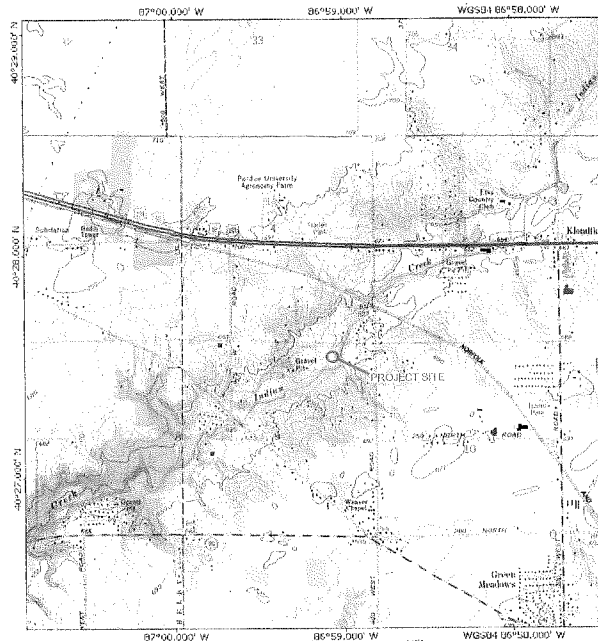
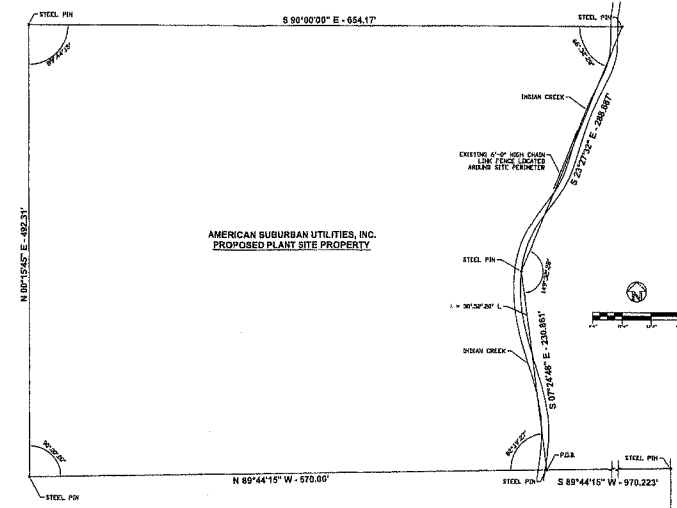


CARRIAGE ESTATES III WWTP
4100 BRIDGEWAY DRIVE
WEST LAFAYETTE, IN 47906

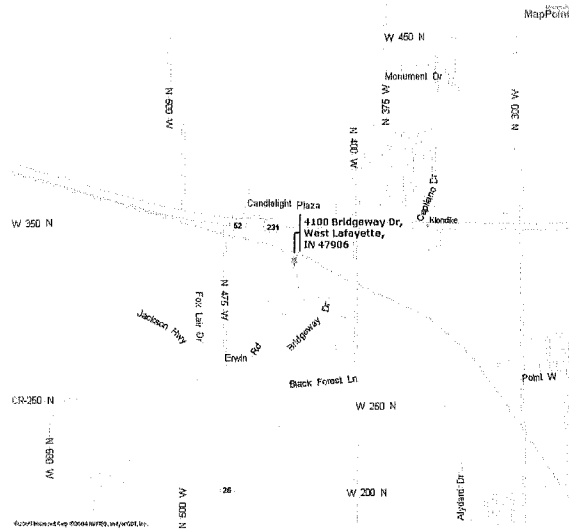


TOPOGRAPHIC
CARRIAGE ESTATES III WWTP
4100 BRIDGEWAY DRIVE
WEST LAFAYETTE, IN 47906

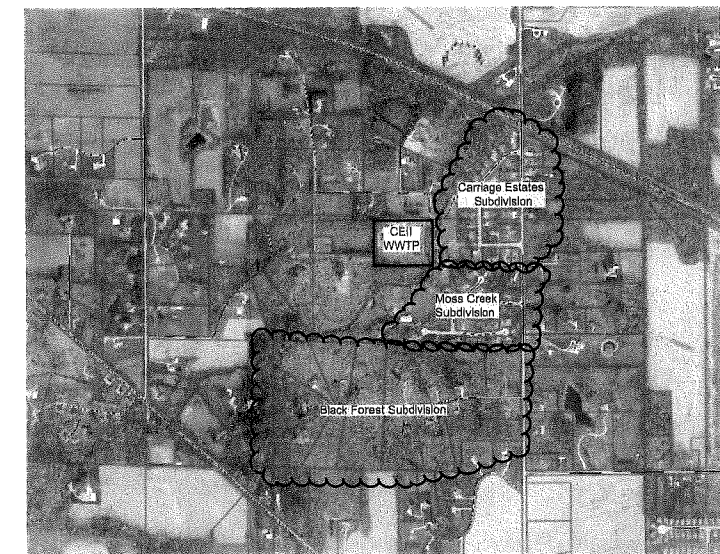
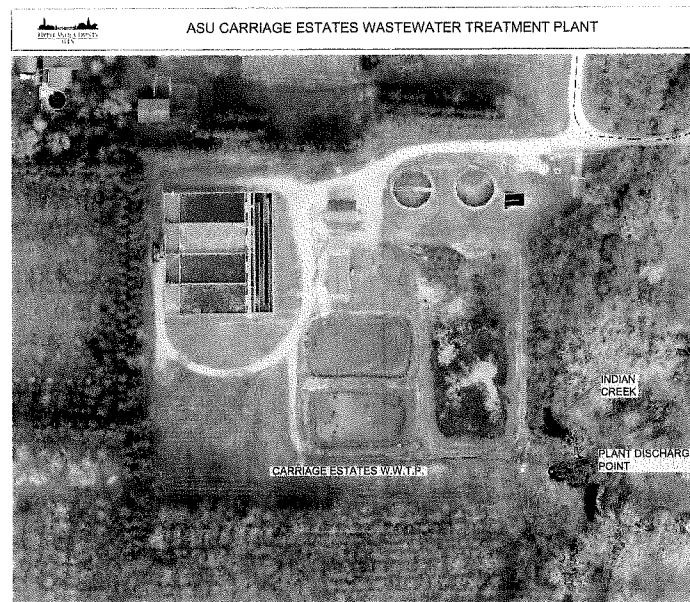


LEGAL DESCRIPTION

A CERTAIN TRACT OR PARCEL OF LAND BEING A PART OF CARRIAGE ESTATES SUBDIVISION, LOCATED IN THE S.E. QUARTER OF SECTION 4, 12TH ROW, AND PART OF THE N.E. QUARTER OF SECTION 8, 12TH ROW, WABASH TOWNSHIP, TIPPECANOE COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 COMMENCING AT THE S.E. CORNER OF THE N.E. QUARTER OF SECTION 8, 12TH ROW AND RUNNING THENCE N. 08°07'30" E A DISTANCE OF 2,186.82 FEET TO A STEEL PIN; THENCE N. 88°44'15" W, A DISTANCE OF 870.22 FEET TO A STEEL PIN; SAID STEEL PIN BEING THE TRUE POINT OF BEGINNING OF THIS DESCRIBED TRACT OR PARCEL OF LAND; THENCE CONTINUING N. 88°44'15" W, A DISTANCE OF 576.60 FEET TO A STEEL PIN; THENCE N. 00°15'45" E, A DISTANCE OF 492.31 FEET TO A STEEL PIN; THENCE S. 90°00'00" E, A DISTANCE OF 654.17 FEET TO A STEEL PIN; THENCE S. 23°27'33" W, A DISTANCE OF 288.97 FEET TO A STEEL PIN; THENCE BY A DEFLECTION ANGLE TO THE LEFT OF 33.67°30" AND A DISTANCE OF 250.66 FEET TO THE POINT OF BEGINNING.
 THE ABOVE DESCRIBED TRACT OR PARCEL OF LAND CONTAINS 7.08 ACRES; MORE OR LESS.



CARRIAGE ESTATES IV WWTP
4100 BRIDGEWAY DRIVE
WEST LAFAYETTE, IN 47906



REV	DESCRIPTION	DATE	APPROVED

Lakeland InnovaTech
 332 PERSIMMON TRAIL
 LAFAYETTE, INDIANA 47909-6823
 TEL: (317) 796-5273

W.W.T.P. STORMWATER POLLUTION PREVENTION

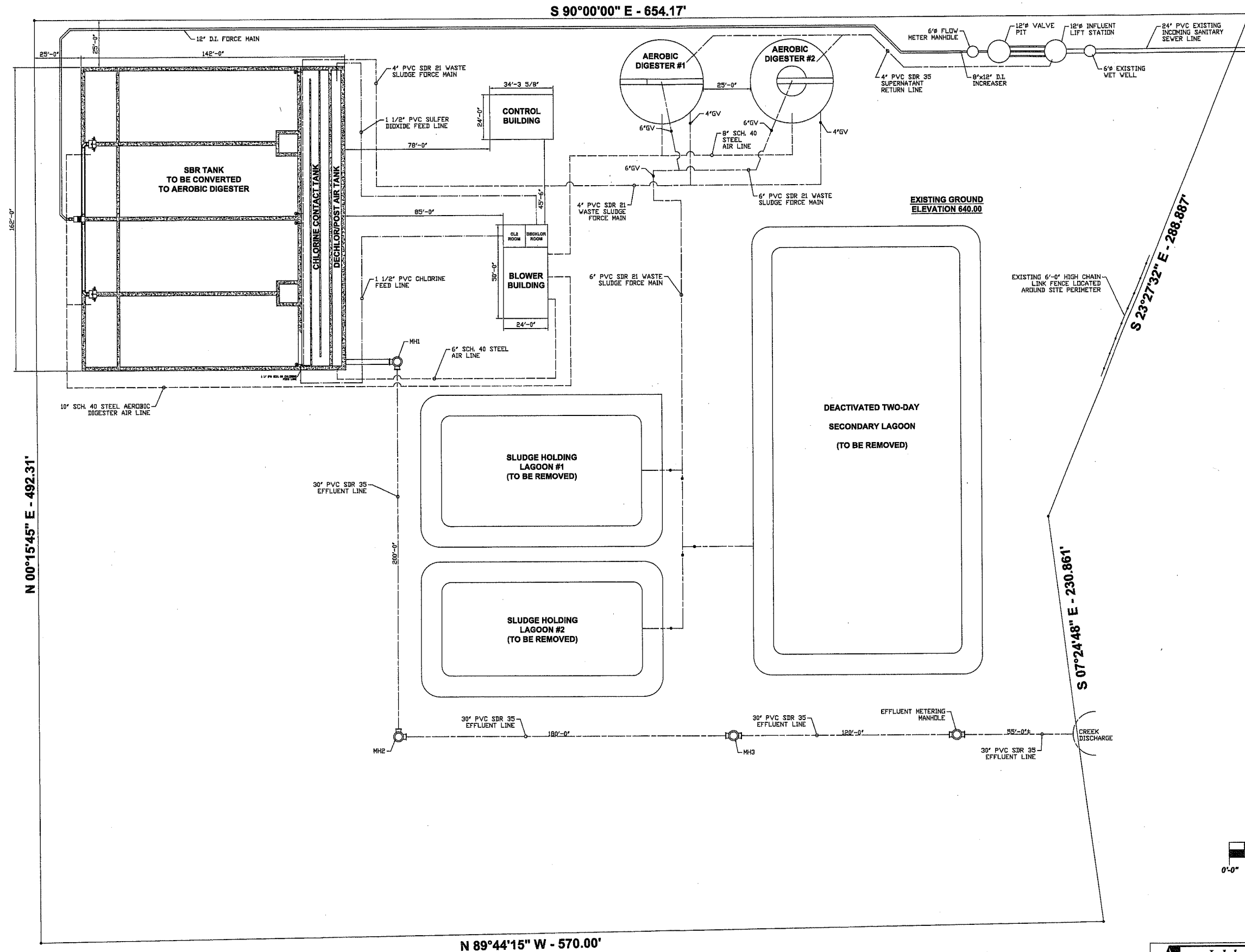
SCALE: AS LISTED
 DATE: 09/17/2014

APPROVED BY: E. J. SERDOWKA, P.E.
 DRAWN BY: M.J.P.

PLANT LOCATION
 CARRIAGE ESTATES III
 WEST LAFAYETTE, TIPPECANOE COUNTY, INDIANA

DRAWING NUMBER
14-039-01

EDWARD J. SERDOWKA
 No. 15550
 STATE OF INDIANA
 PROFESSIONAL ENGINEER



- LEGEND**
- AIR LINES
 - RAW SEWAGE LINES
 - EFFLUENT LINES
 - CHEMICAL LINES

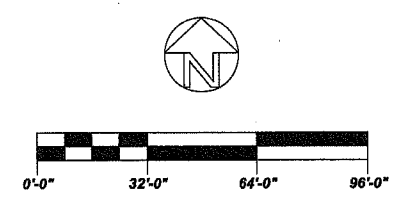
PLANT SITE LAYOUT - EXISTING
SCALE: 1" = 25'-0"

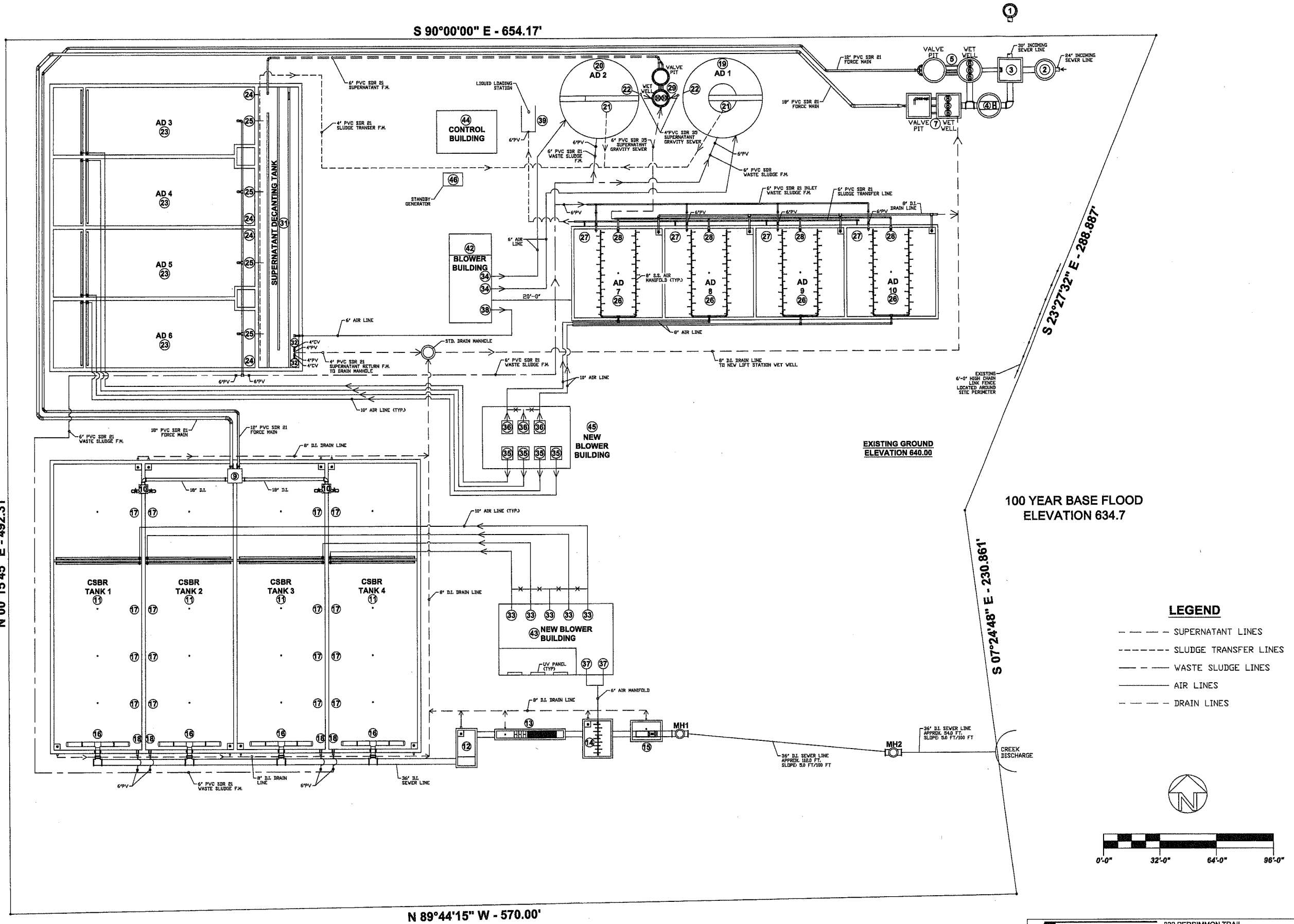
REV	DESCRIPTION	DATE	APPROVED

**Lakeland
InnovaTech**

332 PERSIMMON TRAIL
LAFAYETTE, INDIANA 47909-6823
TEL: (317) 798-6273

W.W.T.P. STORMWATER POLLUTION PREVENTION		
SCALE: AS LISTED	APPROVED BY:	DRAWN BY: M.J.P.
DATE: 09/17/2014	E. J. SERDOWKA, P.E.	
PLANT SITE LAYOUT - EXISTING		
CARRIAGE ESTATES III WEST LAFAYETTE, TIPPECANOE COUNTY, INDIANA		DRAWING NUMBER 14-038-02





PLANT SITE LAYOUT - PROPOSED
SCALE: 1" = 25'-0"

REV	DESCRIPTION	DATE	APPROVED

**Lakeland
InnovaTech**

332 PERSIMMON TRAIL
LAFAYETTE, INDIANA 47909-6823
TEL: (317) 798-5273

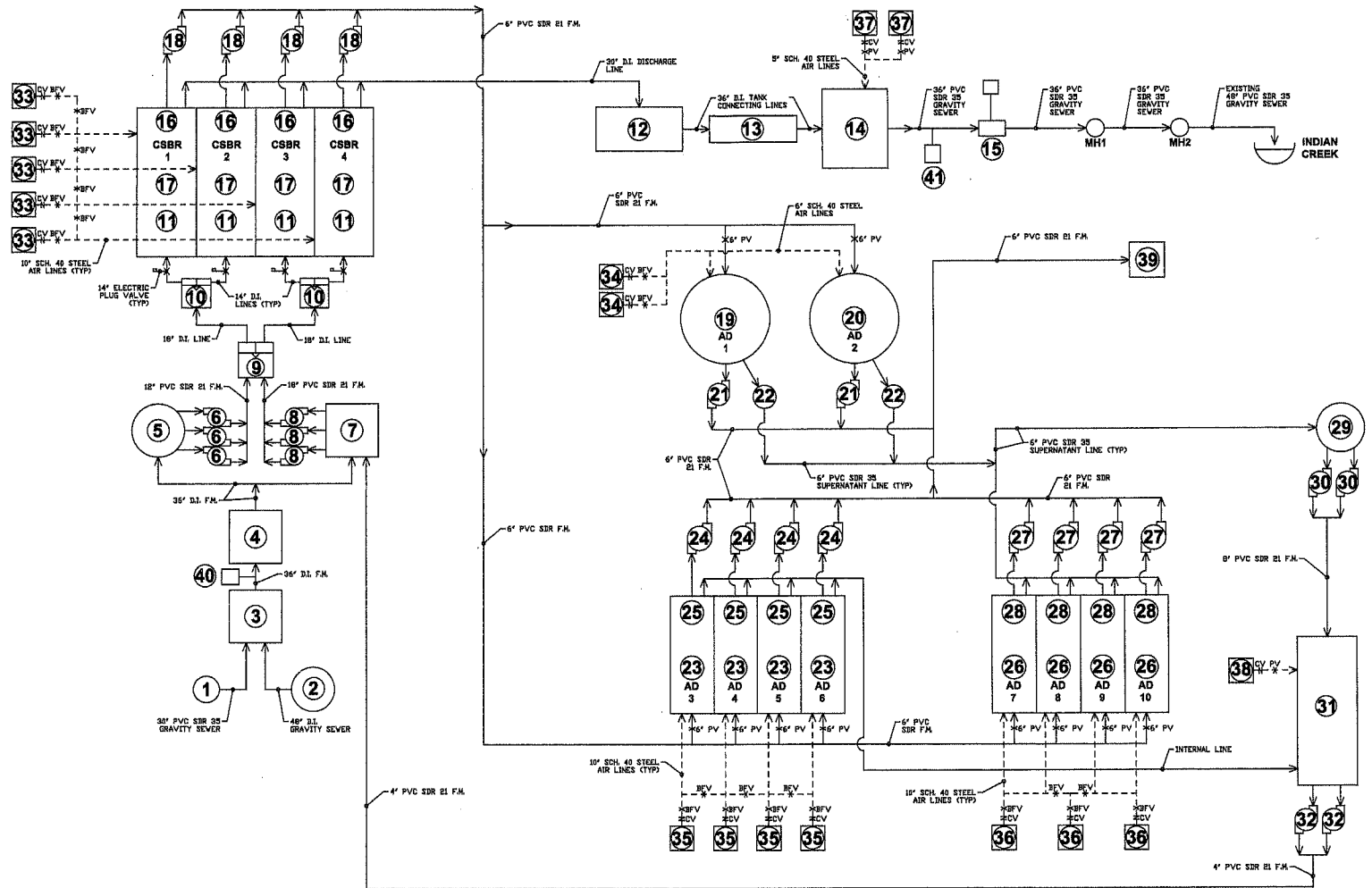
W.W.T.P. STORMWATER POLLUTION PREVENTION

SCALE: AS LISTED	APPROVED BY:	DRAWN BY: M.J.P.
DATE: 09/17/2014	E. J. SERDWA, P.E.	

PLANT SITE LAYOUT - PROPOSED

CARRIAGE ESTATES III WEST LAFAYETTE, TIPPECANOE COUNTY, INDIANA	DRAWING NUMBER 14-039-03
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PLANT FLOW DIAGRAM
SCALE: NONE

SECTION	DESCRIPTION	DETAILS
DESIGN CRITERIA	A. INFLUENT:	AVERAGE DAILY FLOW (ADF): 6.0 MGD PEAK DRY WEATHER FLOW (PDWF): 8.0 MGD PEAK WET WEATHER FLOW (PWWF): 12.0 MGD BOD5 (20°): 200.0 mg/l TOTAL SUSPENDED SOLIDS: 200.0 mg/l NH3-N: 15.0 mg/l TOTAL PHOSPHORUS (TP): 8.0 mg/l ALKALINITY (AS CaCO3): 150.0 mg/l PH: 8.0 TO 8.2 S.U. WATER TEMPERATURE: MIN. 10C, MAX. 28C AIR TEMPERATURE: MIN. OF, MAX. 100F SITE ELEVATION: 640 FT.
	B. EFFLUENT PARAMETERS:	CBOD5 (20°): SUMMER, AVERAGE: 14.0 mg/l (MONTHLY) 21.0 mg/l (WEEKLY) WINTER, AVERAGE: 25.0 mg/l (MONTHLY) 40.0 mg/l (WEEKLY) SUSPENDED SOLIDS (TSS): SUMMER, AVERAGE: 17.0 mg/l (MONTHLY) 28.0 mg/l (WEEKLY) WINTER, AVERAGE: 35.0 mg/l (MONTHLY) 45.0 mg/l (WEEKLY) AMMONIA-NITROGEN (NH3-N): SUMMER, AVERAGE: 1.2 mg/l (MONTHLY) 1.8 mg/l (WEEKLY) WINTER, AVERAGE: 1.8 mg/l (MONTHLY) 2.7 mg/l (WEEKLY) TOTAL PHOSPHORUS (TP): SUMMER, AVERAGE: 1.0 mg/l (MONTHLY) 1.5 mg/l (WEEKLY) WINTER, AVERAGE: 1.5 mg/l (MONTHLY) 2.0 mg/l (WEEKLY) DISSOLVED OXYGEN (DO): SUMMER, AVERAGE: 6.0 mg/l (MINIMUM) WINTER, AVERAGE: 5.0 mg/l (MAXIMUM) E COLI: MONTHLY, AVERAGE: 125 COUNTY/100 ml DAILY, MAXIMUM: 235 COUNTY/100 ml MERCURY: REPORT (mg/l)
	C. EQUIPMENT AND STRUCTURE	1 NORTH INFLUENT MANHOLE: (EXISTING) NUMBER OF MANHOLES: ONE (1) MANHOLE DESIGN SIZE: 32-0" DIAMETER: 32-0" DEPTH: 13-0" 2 EAST INFLUENT MANHOLE: (NEW) NUMBER OF MANHOLES: ONE (1) MANHOLE DESIGN SIZE: 32-0" DIAMETER: 32-0" DEPTH: 13-0" 3 AUXILIARY MANHOLE: (NEW) NUMBER OF MANHOLES: ONE (1) MANHOLE DESIGN SIZE: 32-0" DIAMETER: 32-0" DEPTH: 13-0"
	4 MACERATOR: (NEW)	NUMBER OF STRUCTURES: ONE (1) MANHOLE DESIGN SIZE: 32-0" DIAMETER: 32-0" DEPTH: 13-0" NUMBER OF MACERATORS: TWO (2) MACERATOR PEAK DESIGN FLOW: 6.7 MGD (4,852.8 GPM) TOTAL MACERATOR PEAK DESIGN FLOW: 13.4 MGD (8,308.8 GPM) MOTOR, CUTTER: HP: 8.0 RPM: GEAR REDUCER MOTOR VOLTS: 480 PHASE: 3 HERTZ: 60 MOTOR, DRUM: HP: 1.0 RPM: GEAR REDUCER MOTOR VOLTS: 480 PHASE: 3 HERTZ: 60
	5 INFLUENT LIFT STATION: (EXISTING)	NUMBER OF WET WELLS: ONE (1) WET WELL SIZE: DIAMETER: 12-0" DEPTH: 22-0" WET WELL DESIGN VOLUME: 3,170.8 GALS. NUMBER OF VALVE PITS: ONE (1) VALVE PIT SIZE: DIAMETER: 12-0" DEPTH: 6-0" SIZE OF PUMP DISCHARGE PIPE AND VALVES: 6" SIZE OF LIFT STATION FORCE MAIN: 12"
	6 INFLUENT LIFT STATION PUMPS: (EXISTING)	NUMBER OF PUMPS: THREE (3) PUMP TYPE: SUBMERSIBLE NON-CLOG PUMP CAPACITY: 1,150 GPM PUMP TDS: 40.0 FEET MOTOR: HP: 28.0 RPM: 1,750 VOLTS: 480 PHASE: 3 HERTZ: 60
	7 INFLUENT LIFT STATION: (NEW)	NUMBER OF WET WELLS: ONE (1) WET WELL SIZE: DIAMETER: 12-0" LENGTH: 12-0" DEPTH: 22-0" WET WELL DESIGN VOLUME: 14,846.8 GALS. NUMBER OF VALVE PITS: ONE (1) VALVE PIT SIZE: DIAMETER: 12-0" LENGTH: 12-0" DEPTH: 6-0" SIZE OF PUMP DISCHARGE PIPE AND VALVES: 6" SIZE OF LIFT STATION FORCE MAIN: 18"
	8 INFLUENT LIFT STATION PUMPS: (NEW)	NUMBER OF PUMPS: TWO (2) CURRENT ONE (1) FUTURE PUMP TYPE: SUBMERSIBLE NON-CLOG PUMP CAPACITY: 2,100 GPM PUMP TDS: 67.0 FEET
	9 MAIN CSBR FLOW DISTRIBUTION BOX: (NEW)	NUMBER OF BOXES: TWO (2) INLET CONNECTION SIZES: ONE (1) - 12" ONE (1) - 18" OUTLET CONNECTION SIZES: TWO (2) - 18" BOX SIZE: WIDTH: 6'-0" LENGTH: 6'-0" DEPTH: 6'-0"
	10 SECONDARY FLOW DISTRIBUTION BOX: (NEW)	NUMBER OF BOXES: TWO (2) INLET CONNECTION SIZE: ONE (1) - 18" OUTLET CONNECTION SIZE: TWO (2) - 14" BOX SIZE: LENGTH: 6'-0" WIDTH: 6'-0" HEIGHT: 6'-0"
11 CSBR AERATION TANKS 1, 2, 3 AND 4: (NEW)	NUMBER OF TANKS: THREE (3) - CURRENT ONE (1) - FUTURE VOLUME/TANK: 178,000.0 CU.FT. (1,32 MG) TOTAL VOLUME: 704,000.0 CU.FT. (5.28 MG) TANK SIZE: LENGTH: 180'-0" WIDTH: 50'-0" HEIGHT: 24'-0" SIDE WATER DEPTH: 22'-0" BOTTOM WATER DEPTH: 14'-0" TANK LOADING RATE: 14.2 LBS/1,000 CU.FT. DEFLECTION TIME: 23.9 HOURS SURFACE SETTLING RATE: 192.9 GPH/90 SQ.FT. MEAN CELL RESIDENCE TIME: 21.2 DAYS DECANT RATE/TANK: 9,874.4 GALS/MIN MOTOR: HP: 1.0 RPM: VARIABLE VOLTS: 480 PHASE: 3 HERTZ: 60	
12 CSBR DECANTER DISCHARGE TANK: (NEW)	NUMBER OF TANKS: ONE (1) TANK VOLUME: 1,700.0 CU.FT. (12,716.0 GAL) TANK SIZE: LENGTH: 20'-0" WIDTH: 10'-0" HEIGHT: 13'-0" SIDE WATER DEPTH: 8'-0"	
13 ULTRAVIOLET DISINFECTION SYSTEM: (NEW)	NUMBER OF TANKS: ONE (1) TANK VOLUME: 467.27 CU.FT. (3,644.8 GALLONS) TANK SIZE: LENGTH: 24'-2" WIDTH: 4'-0" HEIGHT: 6'-7" SIDE WATER DEPTH: 5'-12"	
14 POST AIR TANK: (NEW)	NUMBER OF TANKS: ONE (1) TANK VOLUME: 3,000.0 CU.FT. (22,440.0 GALS) TANK SIZE: LENGTH: 15'-0" WIDTH: 27'-0" HEIGHT: 16'-0" SIDE WATER DEPTH: 10'-0" DETENTION TIME, ADF: 5.4 MINUTES DETENTION TIME, PWWF: 2.7 MINUTES	
15 EFFLUENT FLOW METER: (NEW)	NUMBER OF UNITS: ONE (1) METER TYPE: ULTRASONIC TYPE PRIMARY MEASURING DEVICE: PALMER BOWLUS FLOWMETER FLOW RANGE: MINIMUM: 2.00 MGD MAXIMUM: 23.00 MGD	
16 CSBR DECANTERS: (NEW)	NUMBER OF DECANTERS: THREE (3) - CURRENT ONE (1) - FUTURE DECANTER DISCHARGE SIZE: 30" DECANTER DISCHARGE FLOW RATE: 9,874.4 GALS/MIN MOTOR: HP: 1.0 RPM: VARIABLE VOLTS: 480 PHASE: 3 HERTZ: 60	
17 CSBR MIXERS: (NEW)	NUMBER OF MIXERS/TANK: FOUR (4) TYPE OF MIXERS: SUBMERSIBLE MIXER PRIMARY FLOW RATE: 28,200 GPM MIXER IMPELLER DIAMETER: 35.4" MIXER MOTOR: HP: 30.5 RPM: 1,750 VOLTS: 480 PHASE: 3 HERTZ: 60	
18 CSBR WASTE SLUDGE PUMPS: (NEW)	NUMBER OF PUMPS: THREE (3) - CURRENT ONE (1) - FUTURE PUMP TYPE: SUBMERSIBLE NON-CLOG PUMP CAPACITY: 900 GPM	
19 AEROBIC DIGESTER TANK 1: (EXISTING)	NUMBER OF TANKS: ONE (1) TANK VOLUME: 24,502.2 CU.FT. (183,276.5 GALLONS) TANK SIZE: DIAMETER: 48'-0" HEIGHT: 14'-0" SIDE WATER DEPTH: 13'-0"	
20 AEROBIC DIGESTER TANK 2: (EXISTING)	NUMBER OF TANKS: ONE (1) TANK VOLUME: 26,612.2 CU.FT. (199,833.5 GALLONS) TANK SIZE: DIAMETER: 50'-0" HEIGHT: 14'-0" SIDE WATER DEPTH: 13'-0"	
21 AEROBIC DIGESTER SLUDGE TRANSFER PUMPS 1 AND 2: (NEW)	NUMBER OF PUMPS: TWO (2) PUMP TYPE: SUBMERSIBLE TYPE PUMP CAPACITY: 200.0 GPM PUMP TDS: 30.0 FEET MOTOR: HP: 5.0 RPM: 1,750 VOLTS: 480 PHASE: 3 HERTZ: 60	
22 SUPERNATANT DECANTERS 1 AND 2: (EXISTING)	NUMBER OF DECANTERS: TWO (2) TYPE: SWING ARM SIZE: 0"	
23 AEROBIC DIGESTER TANKS 3, 4, 5 AND 6: (CONVERTED)	NUMBER OF TANKS: FOUR (4) ORIGINAL TANKS: CSBR TANKS VOLUME/TANK: 64,410.0 CU.FT. (481,788.0 GALS) VOLUME (TOTAL): 257,640.0 CU.FT. (1,927,147.2 GALS) TANK SIZE: LENGTH: 115'-0" WIDTH: 38'-0" HEIGHT: 16'-0" SIDE WATER DEPTH: 15'-0"	
24 AEROBIC DIGESTER SLUDGE TRANSFER PUMPS 3, 4, 5 AND 6: (NEW)	NUMBER OF PUMPS: FOUR (4) PUMP TYPE: SUBMERSIBLE TYPE PUMP CAPACITY: 200.0 GPM PUMP TDS: 40.0 FEET MOTOR: HP: 7.5 RPM: 1,750 VOLTS: 480 PHASE: 3 HERTZ: 60	
25 SUPERNATANT DECANTERS 3, 4, 5 AND 6: (EXISTING)	NUMBER OF DECANTERS: FOUR (4) TYPE: EXISTING CSBR DECANTERS SIZE: 18"	
26 AEROBIC DIGESTER TANK 7, 8, 9 AND 10: (NEW)	NUMBER OF TANKS: FOUR (4) TANK VOLUME/TANK: 95,000.0 CU.FT. (411,400.0 GALS) VOLUME (TOTAL): 380,000.0 CU.FT. (1,445,600.0 GALS) TANK SIZE: LENGTH: 80'-0" WIDTH: 55'-0" HEIGHT: 24'-0" SIDE WATER DEPTH: 22'-0"	
27 AEROBIC DIGESTER SLUDGE TRANSFER PUMPS 7, 8, 9 AND 10: (NEW)	NUMBER OF PUMPS: FOUR (4) PUMP TYPE: SUBMERSIBLE TYPE PUMP CAPACITY: 200.0 GPM PUMP TDS: 2.0 FEET MOTOR: HP: 5.0 RPM: 1,750 VOLTS: 480 PHASE: 3 HERTZ: 60	
28 SUPERNATANT DECANTERS 7, 8, 9 AND 10: (NEW)	NUMBER OF DECANTERS: FOUR (4) TYPE: TEE VALVE SIZE: 8"	
29 SUPERNATANT LIFT STATION: (NEW)	NUMBER OF WET WELLS: ONE (1) WET WELL SIZE: DIAMETER: 8'-0" DEPTH: 23'-0" NUMBER OF VALVE PITS: ONE (1) VALVE PIT SIZE: DIAMETER: 6'-0" DEPTH: 6'-0" SIZE OF PUMP DISCHARGE PIPE AND VALVES: 6" SIZE OF LIFT STATION FORCE MAIN: 6"	
30 SUPERNATANT LIFT STATION PUMPS: (NEW)	NUMBER OF PUMPS: TWO (2) PUMP TYPE: SUBMERSIBLE NON-CLOG PUMP CAPACITY: 300.0 GPM PUMP TDS: 30.0 FEET MOTOR: HP: 5.0 RPM: 1,750 VOLTS: 480 PHASE: 3 HERTZ: 60	
31 SUPERNATANT HOLDING TANK: (CONVERTED)	NUMBER OF TANKS: ONE (1) ORIGINAL TANK: CHLORINATION/DECHLORINATION POST AIR VOLUME/TANK: 27,840.8 CU.FT. (208,008.0 GALS) TANK SIZE: LENGTH: 158'-0" WIDTH: 21'-0" HEIGHT: 18'-0" SIDE WATER DEPTH: 8'-4 1/2"	
32 SUPERNATANT RETURN PUMPS: (NEW)	NUMBER OF PUMPS: TWO (2) PUMP TYPE: SUBMERSIBLE NON-CLOG PUMP CAPACITY: 300.0 GPM PUMP TDS: 30.0 FEET MOTOR: HP: 5.0 RPM: 1,750 VOLTS: 480 PHASE: 3 HERTZ: 60	
33 AERATION BLOWERS FOR CSBR TANKS 1, 2, 3 & 4: (NEW)	NUMBER OF BLOWERS: FOUR (4) - CURRENT ONE (1) - FUTURE BLOWER TYPE: POSITIVE DISPLACEMENT TYPE CAPACITY BREAKDOWN: CARBONACEOUS BOD: 1,970.0 SCFM NITRIFICATION: 233.0 SCFM CAPACITY, TOTAL: 2,200.0 SCFM DISCHARGE PRESSURE: 10.50 PSIG MOTOR: HP: 200.0 RPM: 1,750 VOLTS: 480 PHASE: 3 HERTZ: 60	
34 AERATION BLOWERS FOR AEROBIC DIGESTER TANKS 1 & 2: (NEW)	NUMBER OF BLOWERS: TWO (2) BLOWER TYPE: POSITIVE DISPLACEMENT TYPE BLOWER CAPACITY: 800.0 SCFM DISCHARGE PRESSURE: 7.0 PSIG MOTOR: HP: 50.0 RPM: 1,750 VOLTS: 480 PHASE: 3 HERTZ: 60	
35 AERATION BLOWERS FOR AEROBIC DIGESTER TANKS 3, 4, 5 & 6: (NEW)	NUMBER OF BLOWERS: FOUR (4) BLOWER TYPE: POSITIVE DISPLACEMENT TYPE BLOWER CAPACITY: 2,000.0 SCFM DISCHARGE PRESSURE: 7.0 PSIG MOTOR: HP: 125.0 RPM: 1,750 VOLTS: 480 PHASE: 3 HERTZ: 60	
36 AERATION BLOWERS FOR AEROBIC DIGESTER TANKS 7, 8, 9 & 10: (NEW)	NUMBER OF BLOWERS: THREE (3) BLOWER TYPE: POSITIVE DISPLACEMENT TYPE BLOWER CAPACITY: 1,800.0 SCFM DISCHARGE PRESSURE: 10.5 PSIG MOTOR: HP: 150.0 RPM: 1,750 VOLTS: 480 PHASE: 3 HERTZ: 60	
37 AERATION BLOWERS FOR POST AIR TANK: (NEW)	NUMBER OF BLOWERS: TWO (2) BLOWER TYPE: POSITIVE DISPLACEMENT TYPE BLOWER CAPACITY: 700.0 SCFM DISCHARGE PRESSURE: 7.0 PSIG MOTOR: HP: 40.0 RPM: 1,750 VOLTS: 480 PHASE: 3 HERTZ: 60	
38 AERATION BLOWER FOR SUPERNATANT HOLDING TANK: (NEW)	NUMBER OF BLOWERS: ONE (1) BLOWER TYPE: POSITIVE DISPLACEMENT TYPE BLOWER CAPACITY: 300.0 SCFM DISCHARGE PRESSURE: 8.0 PSIG MOTOR: HP: 20.0 RPM: 1,750 VOLTS: 480 PHASE: 3 HERTZ: 60	
39 SLUDGE LOADING STATION: (NEW)	NUMBER OF STATIONS: ONE (1) SIZE OF STATION: 6" 40 INFLUENT SEWAGE SAMPLER: (NEW) NUMBER OF SAMPLERS: ONE (1) 41 TREATED EFFLUENT SAMPLER: (NEW) NUMBER OF SAMPLERS: ONE (1) D. PLANT BUILDINGS AND GENERATORS (NOT SHOWN) 42 BLOWER BUILDING: (EXISTING) BUILDING SIZE: LENGTH: 60'-0" WIDTH: 25'-0" NUMBER OF ROOMS: THREE (3) TYPES OF ROOMS: BLOWER ROOM CHLORINE ROOM SULFUR DIOXIDE ROOM 43 BLOWER BUILDING: (NEW) BUILDING SIZE: LENGTH: 75'-0" WIDTH: 49'-0" NUMBER OF ROOMS: TWO (2) TYPES OF ROOMS: BLOWER ROOM ELECTRIC CONTROL ROOM REST ROOM 44 CONTROL BUILDING: (EXISTING) BUILDING SIZE: LENGTH: 35'-0" WIDTH: 24'-0" NUMBER OF ROOMS: FOUR (4) TYPES OF ROOMS: OFFICE LABORATORY ELECTRIC CONTROL ROOM REST ROOM 45 BLOWER BUILDING: (NEW) BUILDING SIZE: LENGTH: 65'-0" WIDTH: 49'-0" NUMBER OF ROOMS: ONE (1) TYPES OF ROOMS: BLOWER ROOM 46 STANDBY GENERATOR: (NEW) NUMBER OF GENERATORS: ONE (1)	

REVISIONS

REV	DESCRIPTION	DATE	APPROVED

Lakeland
InnovaTech

332 PERSIMMON TRAIL
LAFAYETTE, INDIANA 47909-6823
TEL: (317) 796-8273

SCALE: AS LISTED
DATE: 09/17/2014

W.W.T.P. STORMWATER POLLUTION PREVENTION

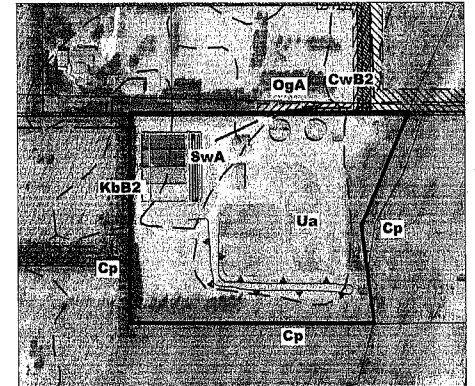
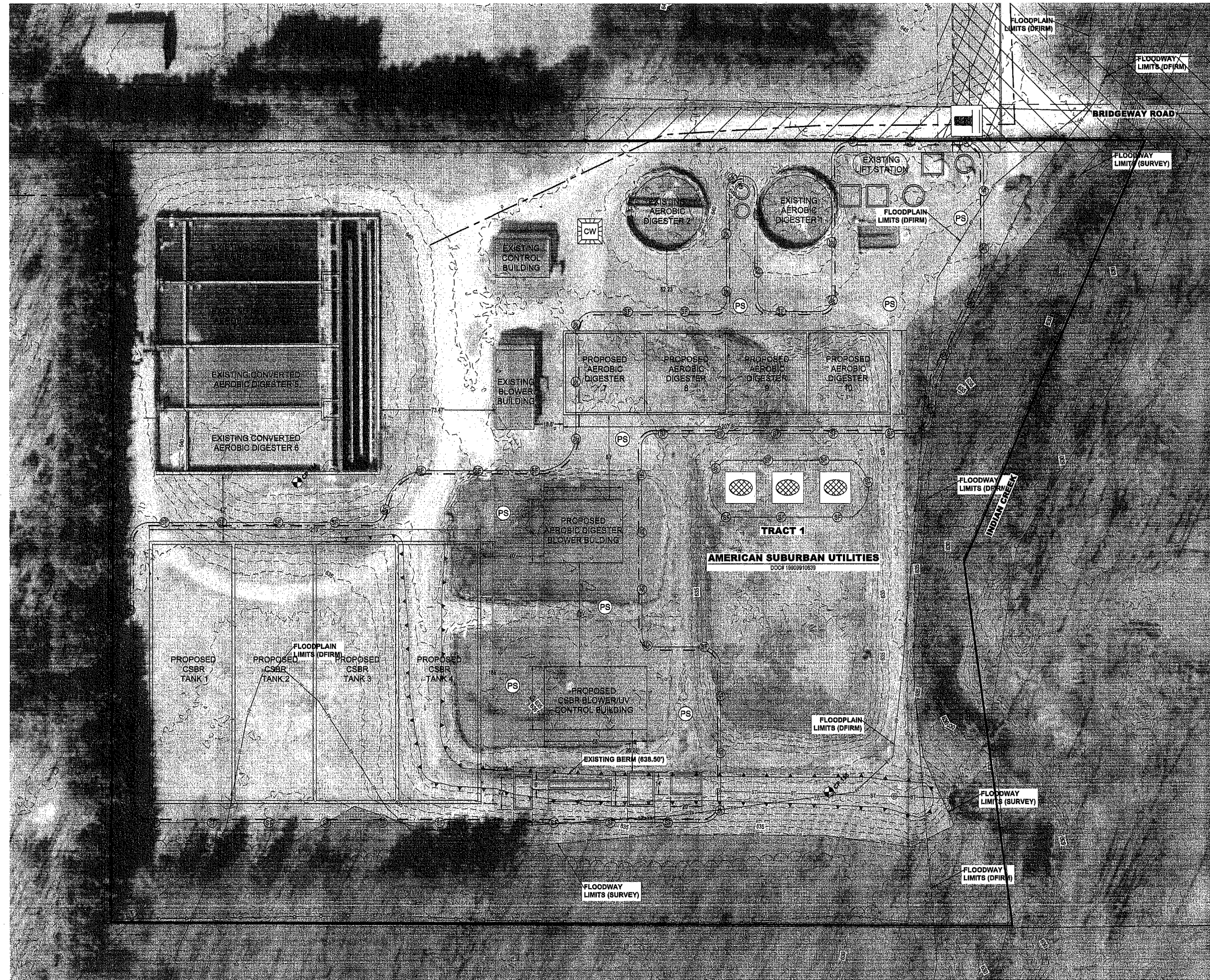
APPROVED BY: E. J. SEROWKA, P.E.

DRAWN BY: M.J.P.

TREATMENT PLANT FLOW DIAGRAM

CARRIAGE ESTATES III
WEST LAFAYETTE, TIPPECANOE COUNTY, INDIANA

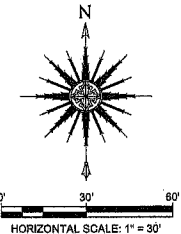
DRAWING NUMBER: 14-039-04



SOIL INDEX 1" = 200'

ID	DESCRIPTION	HYDROLOGIC SOIL GROUP
Cp	Cohesive loam, gravelly substratum, occasionally flooded	BD
Ua	Udorthents, loamy	B
KbB2	Kalamazoo silt loam, 2 to 6 percent slopes, eroded	B
SwA	Starks-Francisville complex, 0 to 2 percent slopes	C
OgA	Ockley silt loam, 0 to 2 percent slopes	B
CwB2	Crosby-Miami complex, 2 to 6 percent slopes, eroded	B/C

ID	DWELLINGS	ROADS	SEPTICS	PONDS
Cp	Severe: Flooding, Ponding	Severe: Flooding, Flooding, Frost Action	Severe: Flooding, Ponding, Poor Filter	Severe: Seepage
Ua	-	-	-	-
KbB2	Slight	Slight	Severe: Poor Filter	Severe: Seepage
SwA	Severe: Wetness	Severe: Low Strength, Frost Action	Severe: Wetness, Percolation Slowly	Moderate: Seepage
OgA	Moderate: Shrink/Swell	Moderate: Shrink/Swell, Low Strength	Slight	Severe: Seepage
CwB2	Severe: Wetness	Severe: Low Strength, Frost Action	Severe: Wetness, Percolation Slowly	Moderate: Slope



LEGEND

FLOODPLAIN	
LIMITS OF CONSTRUCTION	
SILT FENCE	
PERMANENT SEEDING	
TEMPORARY SEEDING	
TEMPORARY CURB INLET PROTECTION	
CONCRETE WASHOUT	
CONSTRUCTION ENTRANCE	
EROSION CONTROL BLANKET	
TEMPORARY STOCK PILE LOCATION	

THE NOTED AND REQUIRED INFORMATION FOR THIS PROJECT MUST BE POSTED AS NOTED THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES UNTIL A NOTICE OF TERMINATION (NOT) HAS BEEN FILED.

ALL CONSTRUCTION ACTIVITY ALONG WITH ANY EROSION CONTROL AND STORM WATER QUALITY MEASURES INSTALLED SHALL BE AS DETAILED AND SPECIFIED IN THE CURRENT INDIANA STORM WATER QUALITY MANUAL. THE INDIANA STORM WATER QUALITY MANUAL, PUBLISHED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, IS HEREBY INCORPORATED INTO THE PROJECT DOCUMENTS BY REFERENCE.

Lakeland InnovaTech 332 PERSIMMON TRAIL
LAFAYETTE, INDIANA 47909-6823
TEL: (317) 796-8273

W.W.T.P. STORMWATER POLLUTION PREVENTION

SCALE: AS LISTED APPROVED BY: M.J.P.
DATE: 09/17/2014 E. J. SEROWKA, P.E.

STORMWATER POLLUTION PREVENTION LAYOUT

CARRIAGE ESTATES III DRAWING NUMBER
WEST LAFAYETTE, TIPPECANOE COUNTY, INDIANA 14-039-05

REVISIONS

REV	DESCRIPTION	DATE	APPROVED

