State Revolving Fund Loan Programs
Drinking Water, Wastewater, Nonpoint Source

PRELIMINARY DECISION OF CATEGORICAL EXCLUSION

TO ALL INTERESTED CITIZENS, ORGANIZATIONS AND GOVERNMENT AGENCIES:

ALLEN COUNTY REGIONAL WATER & SEWER DISTRICT

HESSEN CASSEL CONSOLIDATION – 2014
PROPOSED SEWER EXTENSION TO THREE AREAS
AND
INSTALLATION OF TELEMETRY AT 18 LIFT STATIONS AND 11 FLOW METERS
SRF Project # WW 14 27 02 05

Date: November 18, 2014

Pursuant to IC 4-4-11, the State Revolving Fund (SRF) Loan Program has determined that the project described here and in the District's Preliminary Engineering Report received by the SRF on June 6, 2014, will have no substantial negative environmental impact. Therefore, the SRF is issuing a preliminary decision of Categorical Exclusion from the requirements of substantive environmental review.

How were environmental issues considered?

The National Environmental Policy Act requires agencies disbursing Federal funds to include environmental factors in the decision making process. A summary of the project is attached for your review. The SRF's preliminary review has found that the proposed project does not require the preparation of either an Environmental Assessment or an Environmental Impact Statement.

Why is additional environmental review not required?

Our environmental review has concluded that significant environmental impacts will not result from the proposed action.

How do I submit comments?

Comments can be submitted to:

April Douglas, SRF Senior Environmental Manager
SRF Programs
317-234-7294; adouglas@ifa.in.gov

CATEGORICAL EXCLUSION

I. PROJECT IDENTIFICATION

Project Name and Address:	**Hessen Cassel Consolidation -2014** **Proposed Sewer Extension to Three Areas** **and Installation of Telemetry At 18 Lift Stations and 11 Flow Meters** Allen County Regional Water & Sewer District P.O. Box 11888 Fort Wayne, IN 46861-1888
SRF Project Number:	WW 14 27 02 05
Authorized Representative:	Mr. Ric Zehr, President

II. PROJECT LOCATION

Allen County Regional Water & Sewer District is located in Allen County in Northeast Indiana. The project proposes to install sanitary sewer systems in three project areas and also install telemetry for lift stations and flow meters: (1) Thompson Road – Trentman Road Area in the Poe USGS quadrangle, Marion Township, T29N, R13E, sections 4, 5, 8, and 9; (2) Jennifer Road – Maples Road – U.S. #27 Area in the Fort Wayne East USGS quadrangle, Adams Township, T30N, R13E, sections 31 and 32; (3) Adams Center Road – Paulding Road – Tillman Road Area in the Fort Wayne East USGS quadrangle, Adams Township, T30N, R13E, sections 27, 28, 33, and 34 (see Figures 1, 2, and 3); and (4) the Telemetry for the Lift stations and Flow Meters – please refer to Figure 4 for public land survey system information and also Figure 5.

III. PROJECT NEED AND PURPOSE

Due to failing septic systems and more stringent septic system regulations, residents have approached the District regularly to have sewers extended to their areas. The following areas are currently seeking sanitary sewers:

The Trentman Road – Thompson Road Area has 36 individual on-site septic systems. Four homeowners had no systems on file with the Fort Wayne – Allen County Department of Health (DOH). Eleven structures have filter bed systems over 20 years old and two homes with no systems no longer permitted. The DOH has documented two (2) confirmed failures and 17 that have been replaced at least once.

The Jennifer Road – Maples Road – U.S. #27 Area has 26 individual on-site septic systems. Seventeen homeowners had no systems on file with DOH. Nine (9) structures have filter bed systems over 20 years old. The DOH has documented 12 confirmed failures and seventeen that have replaced their system at least once.

The Adams Center Road – Paulding Road – Tillman Road Area has 56 individual on-site septic systems. 23 homeowners had no system on file with DOH. Twenty- Five structures have filter beds over 20 years old. The DOH has documented seven confirmed failures.

The DOH investigated the on-site systems in each of the three proposed service areas. In correspondence dated July 16, 2014, the DOH stated: "*...this Department has documentation of failed onsite systems that are creating public health hazards throughout these areas. Further, we recognize public sewer as the best solution to the problems in these areas, and fully support the ACRWSD in their on-going efforts to eliminate these areas within Allen County that contribute to non-point source pollution.*"

In addition, the District proposes the installation of telemetry at 18 lift stations and 11 flow meters to allow for real time monitoring at each of the lift stations and flow meter site from one location. Monitoring the flow meters will allow the District to identify trends for infiltration and inflow in the service areas and also help cross-reference billings for invoices received from the various treatment providers.

The "No Action" alternative was rejected, since failing on-site septic systems would continue to discharge inadequately treated sewage into nearby streams or ditches and cause a potential public health problem.

The District proposes to install low-pressure force main systems for the three areas described above. The systems will connect with Fort Wayne, and their wastewater will be treated at the city's treatment plant.

A. The Trentman Road-Thompson Road Area sanitary sewer system includes installing approximately:
   1. 2,050 feet of 3-inch high density polyethylene (HDPE) force main;
   2. 5,700 feet of 2-inch HDPE force main;
   3. 500 feet of 1- ½ HDPE force main;
   4. two air release valves;
   5. 12 flushing cleanouts;
   6. one force main connection;
   7. 20 grinder pump stations;
   8. twenty 1-½ inch stop and check valve assemblies;
   9. 150 feet of 4 -inch polyethylene chloride (PVC) gravity service lateral;
   10. one 3-inch isolation valve;
   11. three 2-inch isolation valves;
   12. five electrical service drops; and
   13. 4,500 feet of electrical conductor cable.

B. Jennifer Road- Maples- U.S. #27 Area sanitary sewer system includes installing approximately:
   1. 3,580 feet of 2-inch HDPE force main;
   2. 185 feet of 1-½ inch HDPE force main;
   3. two air release valves;
   4. 4 flushing cleanouts;

5. two force main connections;
6. 14 grinder pump stations;
7. 14 grinder pump station connections;
8. 14 stop and check valve assemblies;
9. 800 feet of 1- ½ pressure service line;
10. 100 feet of 4-inch PVC gravity sewer;
11. two 2-inch isolation valves;
12. one 1-½ inch isolation valve;
13. 4 electrical service drops; and
14. 4,400 feet of electrical conductor cable.

A. The Adams Center Road –Paulding Road- Tillman Road Area sanitary sewer system includes installing approximately:
1. 6,900 feet of 3-inch HDPE force main;
2. 6,950 feet of 2-inch HDPE force main;
3. one existing manhole and lining;
4. 6 air release valves;
5. 15 flushing cleanouts;
6. 36 grinder pump stations;
7. 36 grinder pump station connections;
8. thirty-six 1-½ inch stop and check valve assemblies;
9. 4,800 feet of 1- ½ pressure service line;
10. 300 feet of 4-inch PVC gravity sewer line;
11. two 3-inch isolation valves;
12. two 2-inch isolation valves;
13. 10 electrical service drops;
14. 7,350 feet electrical conductor cable; and
15. one flow metering structure.

The proposed telemetry system will include: cell modems, data interface boards, power supply, battery, and terminal blocks for each lift station and flow meter sites. Each site will have an antenna (5 to 10 feet high) mounted directly to the existing control panel for each lift station and flow meter site. The telemetry system will also include a new monitoring computer that will be installed at the District office.

The "No Action" alternative was rejected since staff would have to continue making site visits to check on the status of each lift station site and flow meter site, rather than being able to observe the status for each lift station and flow meter site from one location.

IV. Estimated Project Cost and Funding

A. Selected Plan Estimated Cost Summary

Trentman Road-Thompson Road Area	$	384,050
Jennifer Road-Maples Road-U.S. #27 Area		234,500

Adams Center Road-Paulding Road-Tillman Road Area		721,100
Telemetry System		120,360
Subtotal Costs		1,460,010
Contingencies	$	100,350
Total Estimated Construction Cost	**$**	**1,560,360**
Non-Construction Cost		
Financial	$	20,000
Legal		25,000
Planning		32,000
Design		100,000
Inspections		138,000
Land Acquisition		10,000*
Total Non-Construction Costs	**$**	**325,000**
Total Estimated Project Cost	**$**	**1,885,360**

*Ineligible cost for purchase of land.

B. Allen County RWSD will borrow approximately $1,875,360 through a 20-year State Revolving Fund (SRF) loan at an interest rate to be determined at loan closing. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

V. Environmental Impacts of the Feasible Alternatives

The proposed project will be done on land previously disturbed by construction. The pressure sewer system and laterals will be installed by horizontal directional drilling which will cause minimal impacts. The telemetry system will be mounted to the existing control panels for each lift station and flow meter site. The project will not affect wetlands, wooded areas, surface waters, the 100-year flood plain or prime farmland.

If any visual or audible impacts to historic properties occur, they will be temporary and will not alter the characteristics that qualify such properties for inclusion in or eligibility for the National Register of Historic Places. The SRF's finding pursuant to the Section 106 of the National Historic Preservation Act is: "no historic properties affected" (see Figures 6, 7 and 8).

VI. Public Participation

A properly noticed public hearing was held on June 25, 2014 in the Commissioner's Courtroom Suite 035 at the Citizen's Square Building at 12:30 pm. There was no one from the public present at the hearing. The District did not receive written comments during the 5-day public comment period following the public hearing.

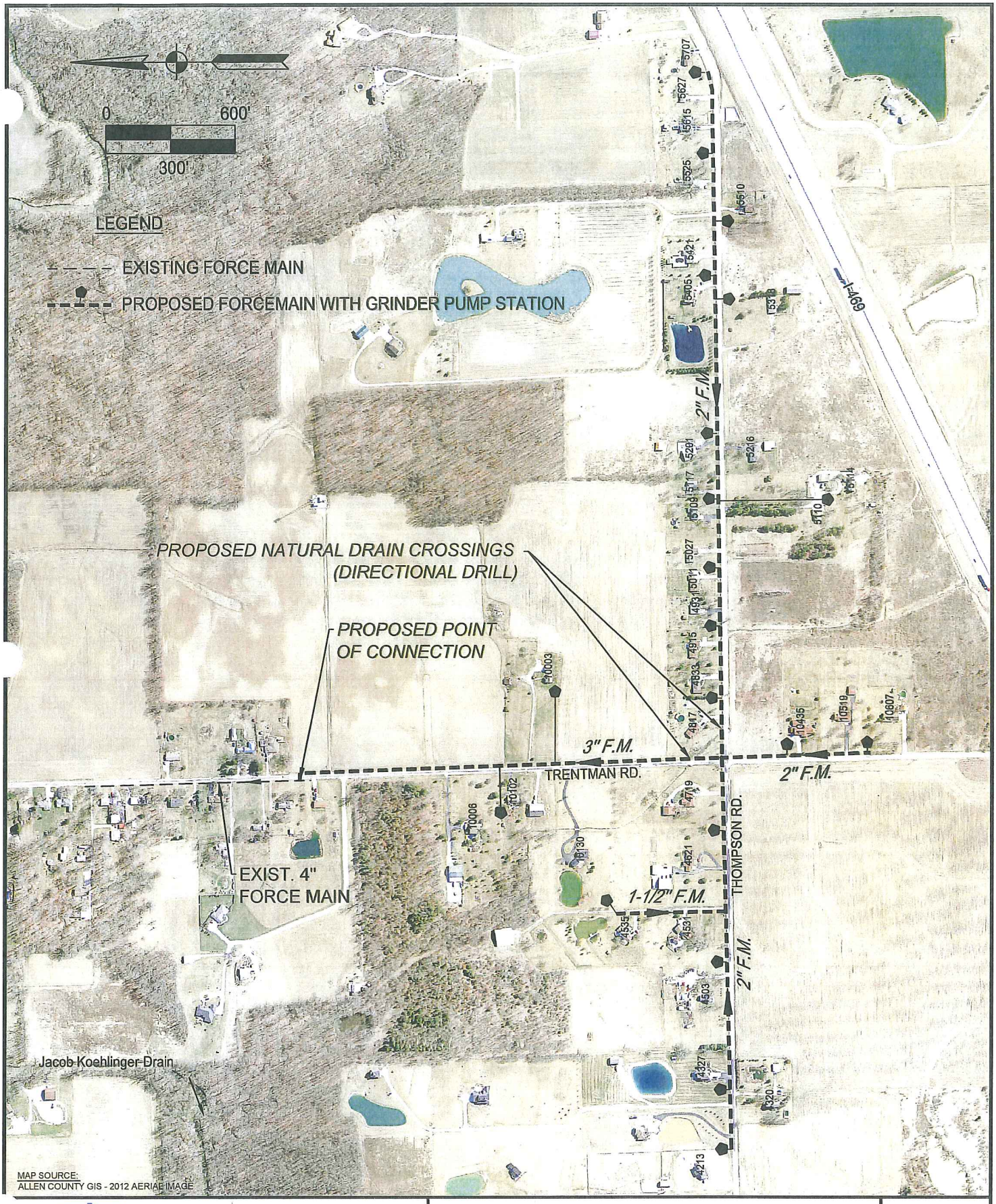

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FIGURE 34A - TRENTMAN-THOMPSON ROAD PROPOSED SERVICE AREA

FIGURE

1

MAP SOURCE:
ALLEN COUNTY GIS - 2012 AERIAL IMAGE

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FIGURE 35A - US 27-MAPLES-JENNIFER DRIVE
PROPOSED SERVICE AREA

FIGURE
2

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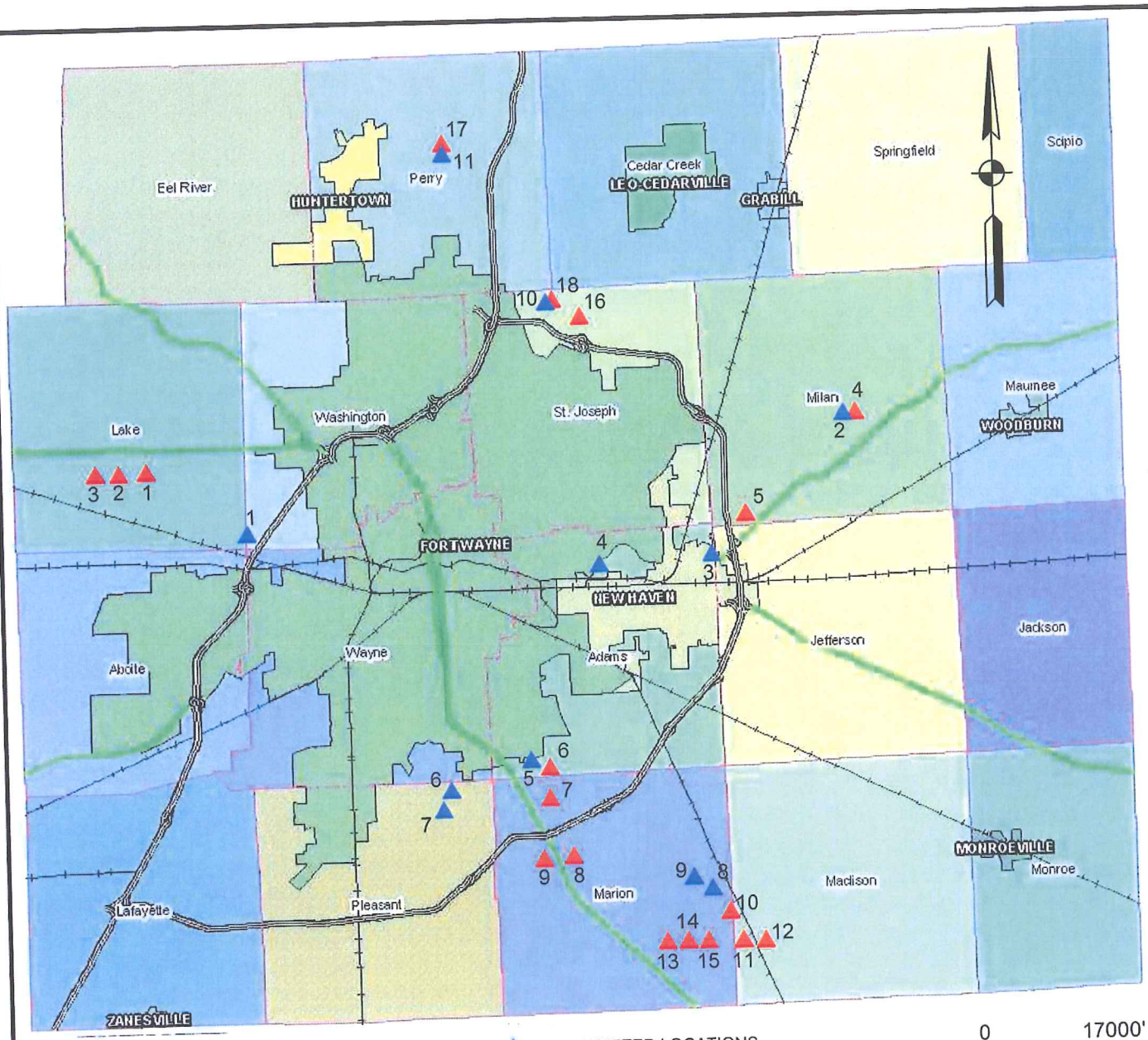
FIGURE 36A - ADAMS CENTER-PAULDING-TILLMAN
PROPOSED SERVICE AREA

FIGURE
3

Allen County Regional Water & Sewer District
Hessen Cassel Consolidation - 2014

	Telemetry Locations	North	West	Elevation	USGS Quad	Civil Twnshp	Twnshp Line	Range Line	Section
	Lift Stations								
1	Arcola # 1 (LS)	41*06.220	085*17.411	835	Arcola	Lake	31 N	11 E	33
2	Arcola # 2 (LS)	41*06.226	085*17.999	854	Arcola	Lake	31 N	11 E	33
3	Arcola # 3 (LS)	41*06.228	085*18.121	856	Arcola	Lake	31 N	11 E	33
4	Platter Parkway Lift station (LS)	41*07.763	084*55.517	764	Grabill	Milan	31 N	14 E	23
5	Georgian Park (LS)	41*05.464	084*59.104	753	Maples	Jefferson	30 N	14 E	6
6	Trentman #1 (LS)	41*00.930	085*04.594	778	FTW East	Adams	30 N	13 E	33
7	Trentman #2 (LS)	41*00.164	085*04.563	768	FTW East	Marion	29 N	13 E	4
8	Hessen Cassel Benzinger (LS)	40*58.663	085*04.759	795	Poe	Marion	29 N	13 E	8
9	Hessen Cassel Trailer Park (LS)	40*58.656	085*05.014	798	Poe	Marion	29 N	13 E	8
10	Hoagland Minnich (LS)	40*57.292	084*59.900	929	Hoagland	Marion	29 N	14 E	24
11	Hoagland Retirement (LS)	40*56.985	084*59.661	827	Hoagland	Madison	29 N	14 E	19
12	Hoagland Bruick (LS)	40*56.991	084*59.519	833	Hoagland	Madison	29 N	14 E	19
13	Hoagland #1 (LS)	40*56.836	085*01.366	809	Poe	Marion	29 N	13 E	23
14	Hoagland #2 (LS)	40*56.846	085*00.911	809	Poe	Marion	29 N	13 E	25
15	Hoagland #3 (LS)	40*56.869	085*00.295	839	Poe	Marion	29 N	13 E	24
16	St.Joe/Maple Crest (LS)	41*09.850	085*03.916	765	Cedarville	St. Joseph	31 N	13 E	3
17	Canyon Run (LS)	41*13.837	085*07.328	844	Cedarville	Perry	32 N	12 E	15
18	Mayhew (LS)	41*10.024	085*04.368	761	Cedarville	St. Joseph	31 N	13 E	4
	Flow Meters								
1	Hadley Road (Arcola - FM)	41*05.130	085*14.177	850	FTW West	Aboite	30 N	11 E	1
2	Platter Parkway (FM)	41*07.763	084*55.521	765	Grabill	Milan	31 N	14 E	23
3	Georgian Park (FM)	41*04.828	084*59.976	755	Maples	Jefferson	30 N	14 E	6
4	Riverhaven (FM)	41*04.507	085*03.677	778	FTW East	Adams	30 N	13 E	9
5	Tillman (Hessen Cassel - FM)	41*01.085	085.05.367	768	FTW East	Adams	30 N	13 E	29
6	Muldoon (FM)	41*00.049	085*07.958	776	FTW West	Pleasant	29 N	12 E	1
7	Winchester (FM)	40*59.622	085*08.053	785	Ossian	Pleasant	29 N	12 E	2
8	Hoagland Lagoon INF (FM)	40*57.563	085*00.184	832	Poe	Marion	29 N	13 E	24
9	Hoagland Lagoon EFF (FM)	40*57.659	085*00.323	822	Poe	Marion	29 N	13 E	24
10	Mayhew (FM)	41*10.023	085*04.370	763	Cedarville	St. Joseph	31 N	13 E	4
11	Canyon Run (FM)	41*13.837	085*07.328	844	Cedarville	Perry	32 N	12 E	15

Figure 4



LIFT STATION LOCATIONS

1. ARCOLA #1 L.S.
2. ARCOLA #2 L.S.
3. ARCOLA #3 L.S
4. PLATTER PARKWAY L.S.
5. GEORGIAN PARK L.S.
6. TRENTMAN #1 L.S.
7. TRENTMAN #2 L.S.
8. HESSEN CASSEL BENZINGER L.S.
9. HESSEN CASSEL TRAILER PARK L.S.
10. HOAGLAND MINICH ROAD L.S.
11. HOAGLAND RETIREMENT HOME L.S.
12. HOAGLAND BRUICK ROAD L.S.
13. HOAGLAND ROAD #1 L.S.
14. HOAGLAND ROAD #2 L.S.
15. HOAGLAND ROAD #3 L.S.
16. ST, JOE/MAPLECREST L.S.
17. CANYON RUN L.S.
18. MAYHEW L.S.

FLOW METER LOCATIONS

1. HADLEY ROAD F.M.
2. PLATTER PARKWAY F.M.
3. GEORGIAN PARK F.M.
4. RIVERHAVEN F.M.
5. TILLMAN ROAD F.M.
6. MULDOON ROAD F.M.
7. WINCHESTER ROAD F.M.
8. HOAGLAND LAGOON INFLUENT F.M.
9. HOAGLAND LAGOON EFFLUENT F.M.
10. MAYHEW F.M.
11. CANYON RUN F.M.

REVISED 9/11/2014

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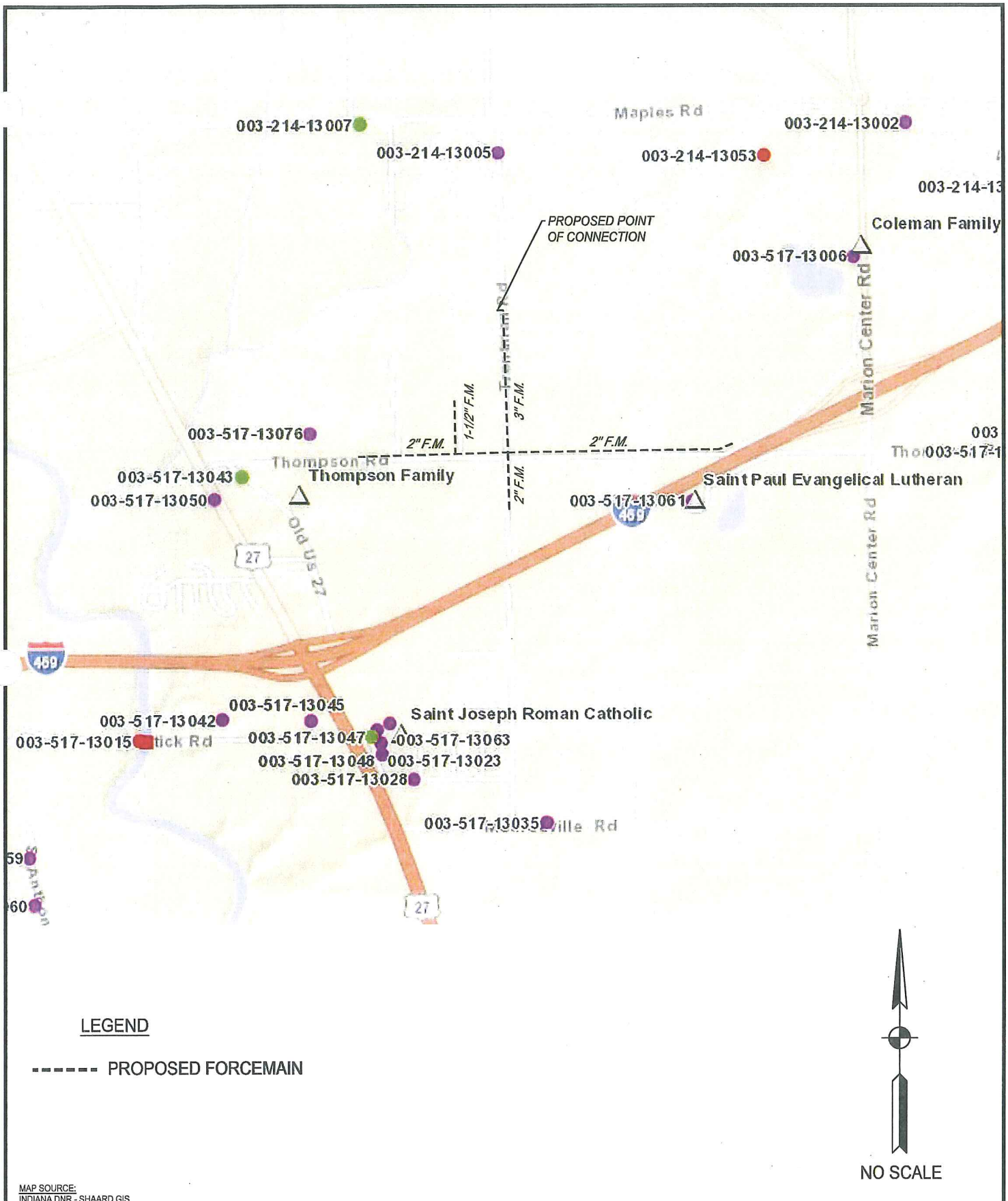
FIGURE 38 - TELEMETRY LOCATION

FIGURE 5



MAP SOURCE:
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FIGURE 33A - TRENTMAN-THOMPSON ROAD
PROPOSED SERVICE AREA - HISTORICAL SITES

FIGURE

6

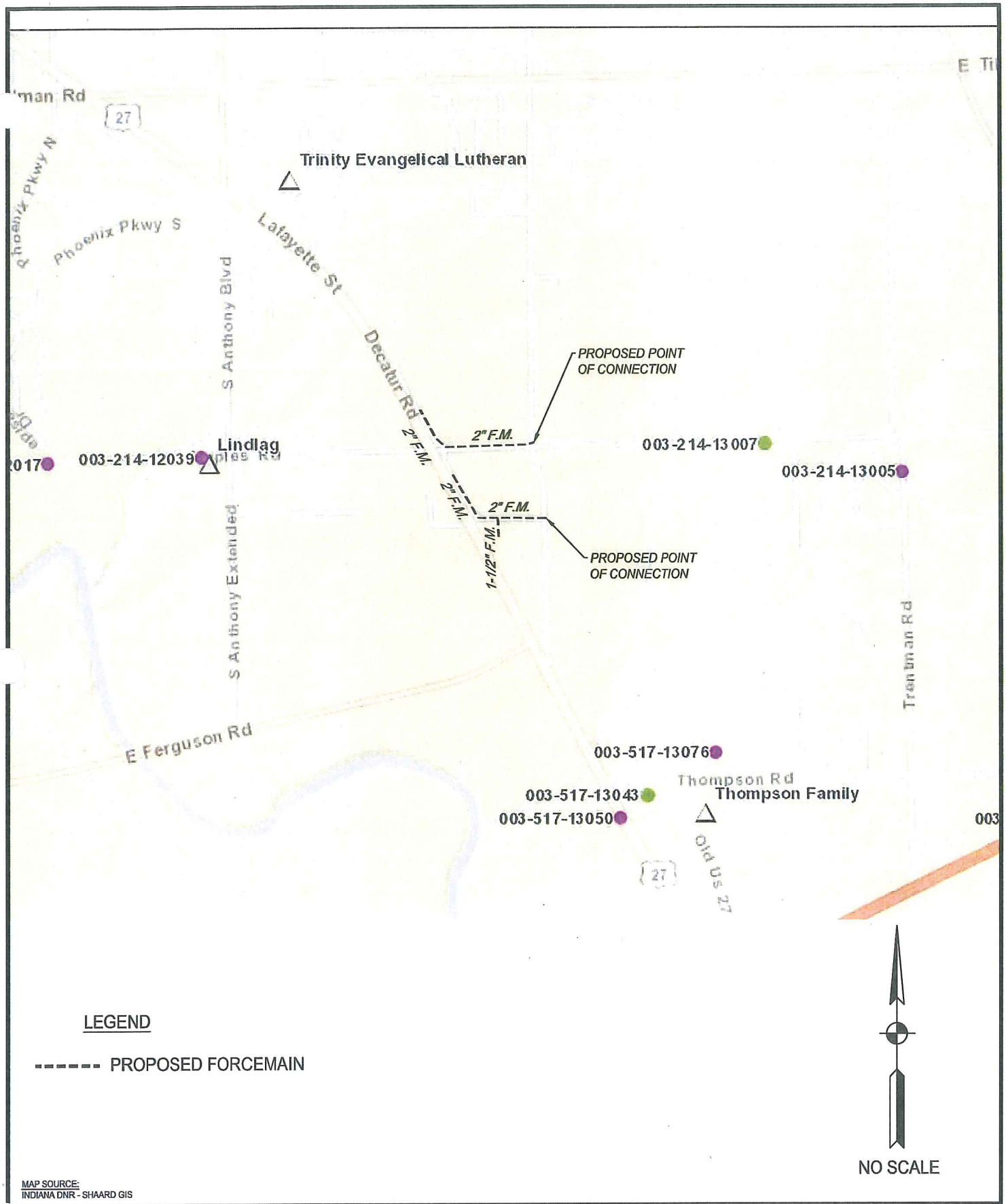

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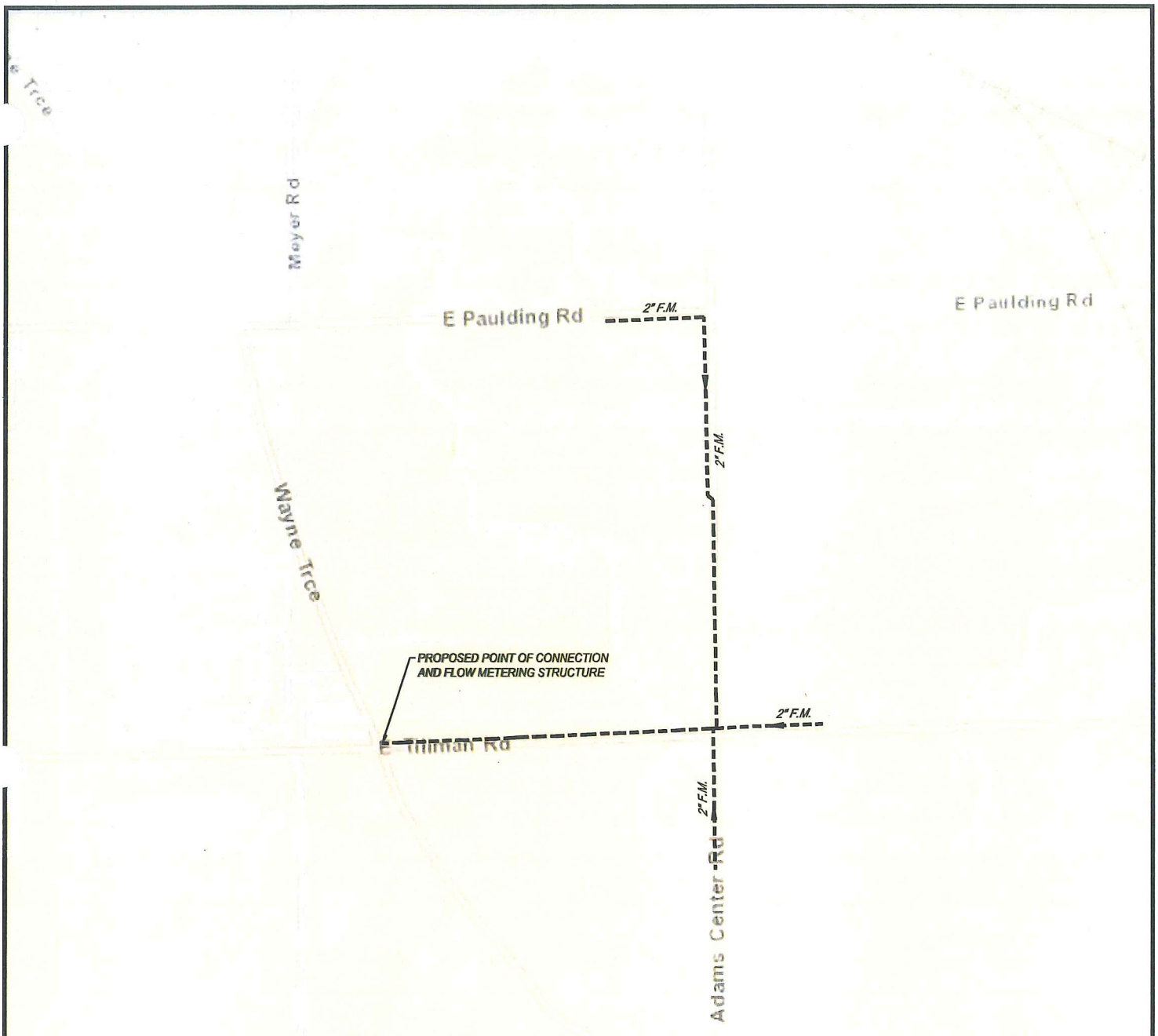
FIGURE 33B - US 27-MAPLES-JENNIFER DRIVE
PROPOSED SERVICE AREA - HISTORICAL SITES

FIGURE
7



NOTE: NO RECORDED HISTORICAL SITES NEAR PROPOSED PROJECT AREA.

LEGEND

------ PROPOSED FORCEMAIN

NO SCALE

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FIGURE 33C - ADAMS CENTER-PAULDING-TILLMAN
PROPOSED SERVICE AREA - HISTORICAL SITES

FIGURE
8