

BETHLEHEM TOWNSHIP PHYSICAL PLANT AND IT REPORT
BETHLEHEM TOWNSHIP MUNICIPAL AUTHORITY
August 2018
August 15, 2018 - REPORT

Church Road/Green Pond Road Sewers

Plan and profile drawing for the sanitary sewers along Church Road, Green Pond Road and Country Club Road are basically complete and have been submitted to Mr. Hunsberger for review and comment. Preliminary drawings for Pump Station 11 remain at approximately 95% complete. These include the site plan, mechanical plan, architectural/structural plans and sections, and electrical plans. We received the CADD file of the proposed grading plan for the pump station lot from Pennoni. We are in the process of revising the site grading on the lot so that we can lower the first floor elevation of the station to accommodate the NPSH requirements of the pumps. Preliminary project specifications, including front end contract documents, have been prepared and are undergoing revision. We are currently waiting on control specifications from the pump manufacturer's rep. to include within the wastewater pump section.

As mentioned last month, due to the number of applications received, we have been advised that a decision on the DCED grant application for the pump station will not be available until after their meeting on September 18, a two month delay from the original schedule.

The Part II permit application (to be submitted to DEP) remains in preliminary draft form. We are currently in the process of revising some of the application's modules and making revisions to the design engineer's report. The Act 537 Special Study was submitted to DEP on July 9, 2018 and was received at DEP's offices on July 10, 2018. DEP has 120 days to review this document.

Act 537 Special Study

in progress.

Tapping Fee Updates

We have the final costs for the Easton Avenue and Butztown Post Office extensions. We should have the final costs for the Farmersville Rd./Ct. sewer extension within the next month or so. We will then be able to update the tapping fee calculations and prepare a new resolution for adoption by the Authority. We expect the resolution will be ready no later than the October meeting.

Palmer Township, Bethlehem Township Intermunicipal Sewer Service Agreement rewrite

In progress, beginning agreement creation.

Sewage Capacity Reassessment

The Sewage Capacity Reassessment report has been finalized and submitted to the Township planning engineer for review and comment. Unless there are comments to address, the project is complete.

Easton Avenue Extension

Construction complete, Tapping Fee development in progress.

Butztown Post Office Sewer Extension

All work is complete and the Contractor has submitted the required closeout documents, including as-built mark-ups, from which we will prepare the Record Drawings for the Authority. The Contractor has submitted Application for Payment #4 (Final) for approval by the Authority.

Farmersville Court Sewer Extension

All final paving has been completed. There are some final punchlist items that need to be addressed. The Contractor has submitted Application for Payment #2 for approval by the Authority. The Contractor needs to submit closeout documents including as-built mark-ups, from which we will prepare the Record Drawings for the Authority.

On August 1 we had a meeting with the Contractor, representatives of Pidcock (who performed the on-site construction observation), and Mr. Hunsberger to discuss the Contractor's request for additional compensation due to excess paving required and additional stone as a result of soil conditions. We requested the Contractor to provide additional documentation to support the request.

Municipal Park Bathroom Rehabilitation Project

Pricing of materials, and acquiring contract prices for drywall repair, and divider wall installation. All other work will be performed by PPIS.

Public Works Complex RFP

Will begin RFP preparation for BOC authorization to acquire the services of a professional Engineer/Architect for end of year budgeting.

BTCC Pool Seating

Completed installation of seating (bleacher) end-caps as per Township direction, and performing various weather stripping and maintenance work.

Only locations with active projects are reported, routine PM maintenance is not reported in the monthly report. For information on PM programs, IT, minor repairs, and services please email me at shunsberger@bethlehemtp.com

Stormwater

Purchasing MS4 permit software assisting with program coordination.

CCTV and Jetting

PM in progress.

Electrical Conservation

In Progress: LED Migration in progress – Traffic Signals at select intersections on hold, attempting to obtain state funding.

Housenick mansion

Electrical service complete.

Information Services

Planning / Construction – Evaluating Permitting Software - Potential 2019 Implementation

RCN – Feasibility Study related to connecting Township Buildings/ Infrastructure via Fiber connections, DIA Circuit Analysis, and Point to Point site configurations. Our goal is to increase reliability, security, and phase out the Microwave links. Late 2018/ Early 2019

Microsoft Navision – Evaluating potential upgrade from R2013 to Hosted Cloud Service R2018/19. Support for current Version ends December 2018, Payroll module/tax forms no longer supported.

CISCO ASA – Currently looking to upgrade the Township Firewall 5512x to Firepower 2110. Reliability/Security/Analytics/Compliance are the main focus of this upgrade, hoping to complete in 4th Quarter 2018

Microsoft Exchange Server – Current Exchange Server is approaching 5 years of service, investigating migrating to hosted cloud server. Will provide for easier access to users outside of the Township Network, increase storage capacity per user, eliminates hardware purchases of servers - 2018?

GIS Cloud Services – PPIS has migrated the Township GIS system to the cloud, easier access for users, public access to mapping, engineering/consultant access (tiered security)

Maintenance Connection – Evaluating/Planning migrating Township MC system to same cloud server as GIS, service requests, technician access will all be available via the web 4th Quarter 2018

RecTrac/WebTrac – Evaluating upgrade options for the Township Recreation Software used at the BTCC, version 10.3 is ending support early 2019, new version 3.xxx is geared more to hosted services. Projected/Budgeting for 2019 Upgrade

Police – Continued support for CODY/WatchGuard/Tracs/Crimemapping Database upgrades/security/patches

Status of Bethlehem Township Municipal Authority Projects

I. Under Review

1. 2112 12th Street (BT400) – Plans reviewed (resubmission required);
2. 4006 Wm. Penn Highway – Ali Proposed Med Office (BT228) – Reviewed revised Final Plans;
3. 4401 William Penn Highway – Amin (BT247) – Reviewed Layout Plans (no comments);

4. Dutt Tract (BT304) – Sketch Plan reviewed (no comments at this time); Planning meeting held 4/19/17 with developers engineer ARRO;
5. Freemansburg Square (BT126) – Revised plans reviewed (resubmission required); Sketch Plan reviewed (no comments at this time);
6. Green Pond Country Club/TOA PRGCC (BT280) – Plans currently under review by ARRO;
7. Greek Orthodox Annunciation Church (BT286) – Plans reviewed (resubmission required);
8. Hecktown Rd. Business Park Lot 4 (BT400) – Plans reviewed (no comments);
9. Hope Road Commercial Development (BT277) – Sketch plan reviewed (no comments);
10. Keystone Street & Ritter Avenue (BT400) – Plans reviewed (resubmission required);
11. King's View Avenue Medical Office Building (BT308) – Sketch Plan reviewed (no comments); Plan review escrow required;
12. LVIP IV Lot 12 Christmas City Distillery (BT400) – Wastewater flow data was reviewed;
13. LVIP IV Lot 17A (BT400) – Reviewed Sketch Plan (no comments at this time);
14. LVIP IV Lot 57 Freshpet (BT298) – Plans reviewed (resubmission required); Site meeting held 5/11/18 with BTMA, developer and engineer
15. LVIP VI Lot 43 (BT255) – Final Plans to be submitted; supporting data provided;
16. Meals on Wheels Addition (BT309) – Plans reviewed and wastewater flow data was requested;
17. Mill Creek Corporate Center Ph 1 (BT282) – Plans reviewed by ARRO (resubmission required);
18. MNB Properties Office & Garage (BT306) - Plans reviewed (resubmission required);
19. Nancy Run Estates Ph 7 – 10 (BT 290) – Revised Plans reviewed (resubmission required);
20. Northampton Country Club (BT400) – No comments;
21. Rau Lane Residential (BT295) – Plans reviewed (resubmission required);
22. St. Luke's Tower 2 (BT111) – Plans reviewed by ARRO;
23. TSAN Green Pond Road (BT400) – Reviewed Plan (no comments at this time);
24. Washington Park Estates (BT197) – Plans reviewed;
25. William Penn Highway Twin (BT296) - Plan review on-hold pending BTMA study results;

II. Pending Construction

1. 4006 Wm. Penn Highway – Ali Proposed Med Office (BT228)
2. American Bank (BT201) – Issued final certificate 6/18/09;
3. Birchwood Commons HOP (BT191) - Plans reviewed;
4. Brodhead Road Distribution Center (BT302) – Pre-construction meeting held 4/25/18; Construction scheduled to start 7/24/18; Shop drawings reviewed 6/22/18;

5. 4217 Fritch Drive (BT310) – Plans reviewed;
6. Lands of Edward Youwakim (BT151) – Issued revised final certificate 4/19/11; Escrow again requested 7/11/11;
7. Lift-All East, Inc. (BT145) – Connect Monitoring MH to existing lateral;
8. Devine Subdivision (BT252) – Construction escrow required;
9. LVIP VI Lot 44 We Store Warehouse (BT271) – Pre-construction meeting to be scheduled;
10. 3025 Northampton Street Lateral Installation (BT294) - Lateral location to be staked by developer and escrow established;

III. Under Construction

1. Birchwood Commons (BT191) - 12th Street extension to Barbosa Pizza shop completed; Testing to be performed; PENNDOT HOP pre-construction meeting held on-site 9/12/17; Construction of 12th St. upstream of MH BC-3 sanitary sewer extension started 9/19/17; 30 day waiting period for this waived (30 day test period ends 11/2/17); PENNDOT HOP abandonment work has been performed; Pizza Shop re-connection and BTMA abandonment has been performed;
2. William Penn Commons (BT261) – Pre-construction meeting held 7/10/12; Shop drawings received; PENNDOT HOP received; Site meeting was held on 12/11/12 with PENNDOT; on-site construction completed 2/8/13; PENNDOT work delayed; Letter issued 5/23/14 re condition of manholes; Meeting with developer, design engineer & BTMA scheduled for 8/27/14; New PENNDOT HOP required;
3. Madison Farms Phase 1 (BT260) – Construction started June 2014; Pipe sag downstream of MH 63A has been addressed; Building E2 lateral installed; Pipe failure between MH 43 & MH 44 was found and corrected 3/1/16 with satisfactory testing on 4/4/16; Follow-up Final Inspection performed and all field items satisfactorily addressed;
4. Madison Farms Phase 2 (BT260) - Construction is completed; Emanuel Ct. lateral conflict pre-construction meeting held and construction completed 8/29/16;
5. Madison Farms Phase 3 (BT260) – Construction completed 9/23/16; Sanitary sewer manhole 49 was slid back (25 ft.) after initial construction at the contractor's request;
6. Madison Farms Phase 4 (BT260) – Construction started 12/15/16 in Long Dr. easement and continues; Testing for pipe repair (3rd repair performed 10/25/17) segment between MH 17 & MH 30 still required after 11/25/17 (repair testing is satisfactory);
7. Madison Farms Phase 5 (BT260) – Construction started 10/19/17; Construction completed 11/8/17;

IV. Require As-Built/Testing/Final or Maintenance Inspection

1. 1880 Chain Dam Road - Requires final paving inspection after curb replacement;
2. 8030 William Penn Highway (BT275) – Pre-construction meeting held 6/30/16; PENNDOT manhole approval received; Construction started January 13, 2017; Testing, flushing & televising completed 3/28/17; As-Builts reviewed (resubmission required); Final Inspection performed 3/30/17 & follow-up Final Inspection performed 4/3/17 with

- work items required; Watertight manhole frame & cover installed on doghouse manhole 5/16/17; Follow-up Final Inspection performed 6/8/18 with field items addressed;
3. Bethlehem Area Vocational Technical School (Haines Property/Skills Hill)(BT258) – Two sets of signed and sealed plans required prior to construction; Pre-construction meeting held 9/11/15; Construction completed 11/18/15; Air pressure testing performed 5/20/16 & mandrel testing performed 12/22/15 & 12/28/15; Manhole vacuum testing completed 11/4/16; Pipe televising performed 9/28/16; Final Inspection performed January 12, 2017 with items to be addressed; Follow-up Final Inspection performed 1/20/17 with all field items satisfactorily addressed; As-Builts reviewed (mylar or .pdf required);
 4. Birchwood Commons (BT191) – Pre-construction meeting held 7/19/12; Additional pre- construction meeting held 7/10/15; Construction started 11/16/15. Tie-in manhole base to be retained and filled with concrete for future BTMA pipe lining project; Partial testing performed 3/23/16; Construction restarted March 21, 2017; Construction completed 4/24/17 & testing can be performed after 5/24/17; Last of pipe testing scheduled for 6/6/17 – manhole testing performed;
 5. Charles Chrin Comm. Center of Palmer Twp. - Requires vacuum testing, Final Inspection and As-Builts;
 6. CHS Medical Office – LVIP 4 Lot 26B (BT166) – Pending Maintenance Inspection;
 7. CVS – Dischinat (BT253) – Apartments sanitary sewer manhole vacuum test completed 5/12/11; Final Inspection was performed 5/18/11 with all items satisfactory; Maintenance Inspection required;
 8. Easton Avenue Sanitary Sewer Extension (BT432) - Project approved at 4/17 BTMA Board meeting; Pre-construction meeting held 1/31/18; Construction complete; All testing completed as of 4/18/18; Pavement restoration is complete; Lawn restoration is seeded & mulched; As-Builts required; Flushing & televising performed by BTMA staff;
 9. Farmersville Ct. Sanitary Sewer Extension (BT429) – Project (4410 Farmersville Rd. – Miller) approved at 4/17 BTMA Board meeting; Pre-construction meeting held 3/12/18; Construction completed 5/18/18; Setting of manhole frames and covers to be completed; Testing completed satisfactorily; Flushing & televising performed by BTMA staff; As-Builts required; Wearing course paving completed 7/12/18; Meeting scheduled for 8/1/18 re paving quantities;
 10. Freemansburg Dental (BT266) - Pre-construction conference held 7/30/14; Meeting w/BTMA & BTMA contractor scheduled for 9/29/14; BTMA contractor installed lateral and monitoring manhole 12/9/14; Manhole vacuum testing was performed 2/18/15; As-Builts reviewed & .pdf received; Final Inspection performed 6/25/15; Maintenance Inspection required;
 11. LVIP VI Lot 32 (BT299) – Pre-construction meeting held 6/20/17; Shop drawings submitted & reviewed 7/11/17; Cut sheets reviewed 10/4/17; Monitoring manhole installed 10/13/17; Manhole testing

- performed; As-Builts required; Final Inspection performed 6/13/18 and all field items satisfactory;
12. Madison Farms Phase 1 (BT260) – Partial mandrel & air pressure pipe testing performed; Manhole vacuum testing performed 4/21/15; Pipe flushing & televising performed 3/24/15; As-builts required; Final Inspection performed 12/13/16; Follow-up final Inspection performed 3/10/17 with all field items satisfactorily addressed – report issued 6/5/17 with field item to be addressed;
 13. Madison Farms Phase 2 (BT260) – Testing, flushing & televising performed 11/17/16; As-builts required;
 14. Madison Farms Phase 3 (BT260) – Testing, flushing & televising performed 11/17/16; As-builts required;
 15. Madison Farms Phase 4 (BT260) – Partial pipe testing performed 4/28/17 & 6/21/17; As-Builts required; Pipe repair between MH 17 & MH 30 addressed 6/9/17; Pipe repair addressed 6/17/17 between MH 16 & MH 17;
 16. Madison Farms Phase 5 (BT260) – Pipe testing performed 2/6/18; As-Builts required;
 17. Maple Shade Estates (BT196) – All air pressure & mandrel pipe testing completed; Manhole vacuum testing remains after base course paving; As-Builts reviewed (resubmission required); Final Inspection performed January 11, 2017 with items to be addressed; Pipe flushing & televising was completed 5/21/14 with items to be addressed; Follow-up Final Inspection performed 3/20/17 with all field items satisfactorily addressed;
 18. McDonald's Re-Build – Rt. 191 (BT289) - Pre-construction meeting held 5/1/17; Lateral investigation scheduled for 5/22/17 showed broken pipe; Site meeting with BTMA contractor 5/23/17 to provide price for McDonald's payment; Site meeting 5/31/17 with NCCD, BTMA & contractor, & site manager re E & S requirements; Monitoring manhole installation performed without observation notice; Pipe installation completed 6/12/17; Pipe and manhole testing performed 7/11/17; Final Inspection performed 8/15/17 with field items to be addressed; As-Builts reviewed (resubmission required);
 19. Nancy Run Estates Phase 4 (BT207) – Final Inspection performed 10/23/17; Follow-up Final Inspection performed 11/29/17 with outstanding items addressed, and as-builts have been received; Maintenance Inspection required;
 20. Negrao (BT105) – City of Bethlehem; As-builts required;
 21. Old Dominion Distribution Center (BT284) – Testing of collector performed 11/22/16; Lateral testing, and flushing & televising of main was satisfactorily completed 12/20/16; Final Inspection performed January 13, 2017 with items to be addressed; Follow-up Final Inspection performed 1/18/17 with all field items satisfactorily addressed; As-Builts reviewed – mylar received; Maintenance Inspection required;
 22. People First Federal Credit Union (BT259) – Construction completed 10/15/14; Testing at 25psi was performed satisfactorily 4/23/15; As-built plans provided; Final Inspection was performed 10/5/17, &

- follow-up performed 1/24/18 with outstanding field items satisfactory; Maintenance Inspection required; Maintenance Period started 6/11/18;
23. Sanitary Sewer Extension behind Post Office (Willow Park Rd)(BT433)
– Project discussed at 6/21/17 BTMA Board meeting; Pre-construction meeting held 3/12/18; Construction completed except for lateral tie-ins; Pipe testing performed on 5/18/18 with mandrel failure between MH 1 & MH 2 – air pressure testing was satisfactory; All pipe & manhole vacuum testing is completed; Doghouse MH 3 condition acceptable to BTMA; As-Builts required; Flushing & televising performed by BTMA staff; Satisfaction of paving to be determined; Lateral tie-ins completed;
 24. St Luke's MOB N (BT111) - Pre-construction meeting held 9/14/15; Construction completed 1/7/16; Pipe air pressure and mandrel testing performed 5/2/16; Manhole testing remains to be performed; ARRO to complete;
 25. Vineyard at Wagner Farms – Phase 8 (BT148) –Reviewed as-builts (mylar to be submitted). Final Inspection performed 11/11/11 and no field work items remain to be addressed; Project close-out pending;
 26. William Penn Commons (BT261) – On-site sanitary sewer testing completed 5/31/13; As-Builts required;

V. As-Built in Progress

- 1) GIS Updating for BTMA (BT405) –
 - A. LVIP VI Lot 25A – With BTMA staff;
 - B. LVIP VI Lot 9 BGSD – With BTMA staff;
 - C. LVIP VI Flexicon Expansion - With BTMA staff;
 - D. NCACC Dorm Expansion – With BTMA staff;
 - E. Freemansburg Dental - With BTMA staff;
 - F. Freemansburg Avenue Corridor Improvements – With BTMA Staff
 - G. Meyer Lane Apartments – With BTMA Staff

VI. As-Builts Completed, Mylars Received, in GIS

VII. Miscellaneous

- 1) Chapter 94 Report (BT400) –
- 2) William Penn Highway/Indiana Street (BT400) – Gravity and LPSS lateral investigation;
- 3) Joao & Bradley Brodhead Road Lateral (BT430) – Contractor to be Joao & Bradley; Installation to be scheduled; Shop drawings reviewed 3/20/17; Escrow, COI & Indemnification Agreement received 3/31/17; Installation performed 4/7/17 with temp paving; Final pavement restoration still required;

VIII. Review Complete – No Field Work