

Oak Drive Right Turn Lane Preliminary Layout Options

1. Existing queuing from recent counts indicate the need for a 350 LF Right Turn Lane, greatest length in the AM peak hour.
2. **Option 1** – Extending the existing right turn lane on Oak Drive (keeping it in current location and no changes to the overall intersection).

Option 2 – Channelized Right-Turn and Intersection Re-Alignment.

- a. The second option was at the request from Chris Canavan to look at the overall alignment of Oak Drive with Alderfer Rd. This option is more extensive as it means more improvements to the overall intersection. However, this option does provide a better overall intersection configuration.
 - b. No formal signal analysis has been completed but our initial opinion is that O2 will be an overall improvement to the operations of the intersection.
3. Order of Magnitude Cost
 - a. Detailed cost estimates have not been completed at this stage.
 - b. Scope of work (Option 2 in particular) is comparable to the Main St/Ruth Rd sidewalk project.

Option 1 – Extending Existing Right Turn Lane

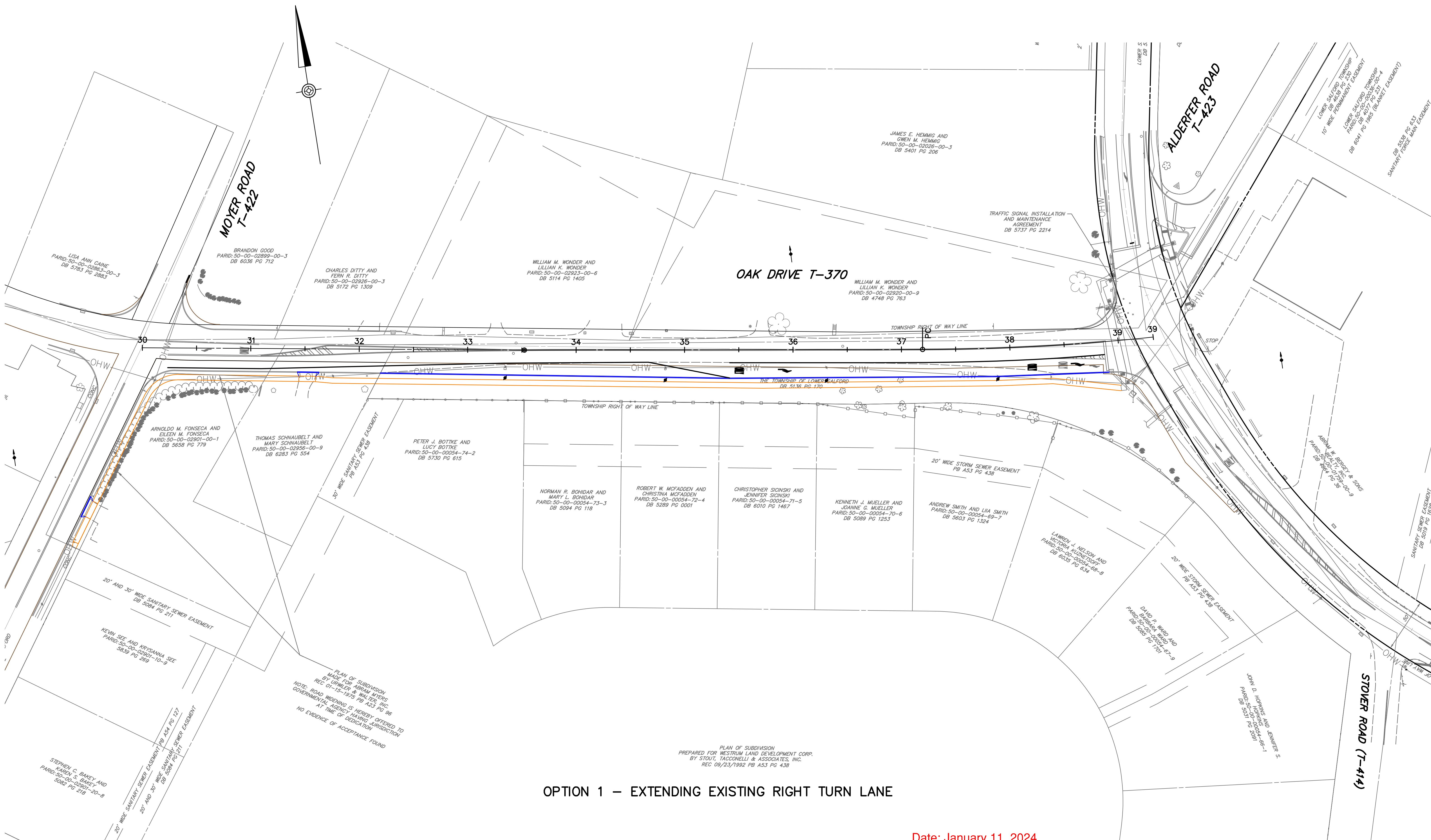
Order of Magnitude for Option 1 (Construction): \$650,000 – \$700,000 (2024)

- Provides 350 LF of storage.
- Requires Utility pole relocations (4).
- Ties existing curb lines together with future option to lengthen RTL storage if necessary.
- Does NOT address alignment with Alderfer Road.
- Minimizes impacts to drainage system in vicinity of the intersection.
- Utilizes existing ADA ramps at the Main St. intersection.
- No Highway Occupancy Permit required, only a Signal Permit Modification for geometry.
- Maintains existing Left turn lane storage at Moyer Road.

Option 2 – Channelized Right Turn Lane with Intersection Re-alignment

Order of Magnitude for Option 2 (Construction): \$950,000 - \$1,000,000 (2024)

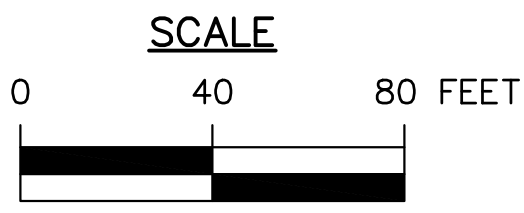
- Provides additional storage beyond 350 LF with channelized yield right (similar to Alderfer Rd approach).
- Requires Utility pole relocations (4).
- Ties existing curb lines together with future option to lengthen RTL storage if necessary.
- Improves through lane alignment with Alderfer Road, adding DDY lines to direct traffic.
- Will require additional design and improvements to drainage system in vicinity of the intersection.
- Requires 3 new ADA ramps at the Main St. intersection.
- Island construction should accommodate existing utility pole. Signal design will have to evaluate need for increased mast arm length(s).
- Highway Occupancy Permit and Signal Permit Modification is required. Allows for striping modifications along Main St through the intersection.
- Have not evaluated all truck movements yet so island radii may need to be adjusted, in particular for the left turn from Main to Oak
- Maintains existing Left turn lane storage at Moyer Road.
- Improves right turn movement from Main to Oak with through lane shift for the intersection realignment.
- Utilizes more of the Township right of way area along Oak Drive.



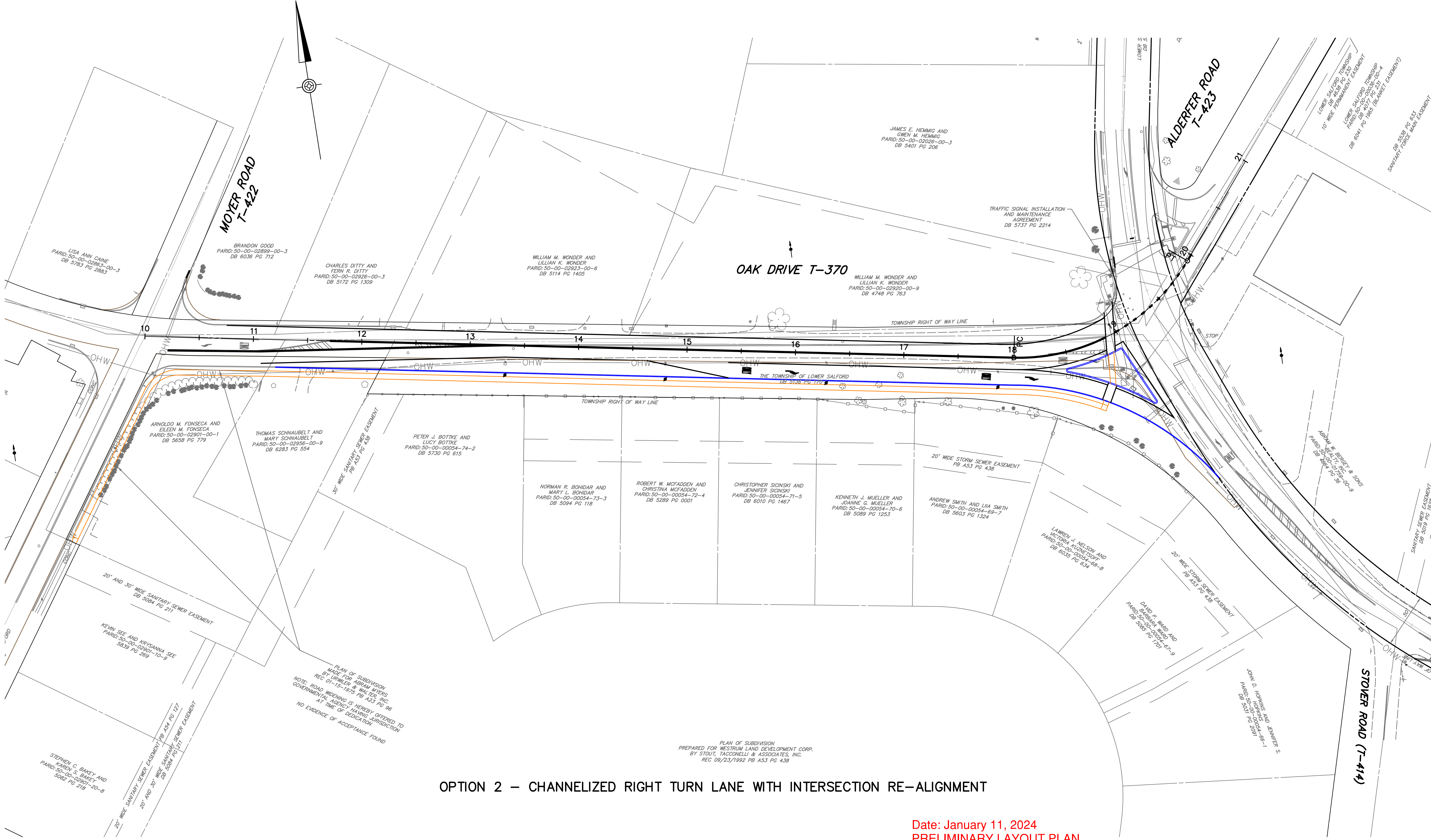
OPTION 1 – EXTENDING EXISTING RIGHT TURN LANE

PLAN OF SUBDIVISION
 PREPARED FOR WESTRUM LAND DEVELOPMENT CORP.
 BY STOUT, TACONELLI & ASSOCIATES, INC.
 REC. 09/23/1992 PB A53 PG 438

PLAN OF SUBDIVISION
 MADE FOR ABRAM MYERS
 BY UNWILER & WALTER, INC.
 REC. 01-15-1975
 NOTE: ROAD WIDENING IS HEREBY OFFERED TO
 GOVERNMENTAL AGENCY HAVING JURISDICTION
 AT TIME OF DEDICATION
 NO EVIDENCE OF ACCEPTANCE FOUND

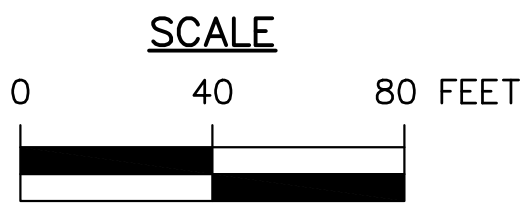


Date: January 11, 2024
 PRELIMINARY LAYOUT PLAN
 NOT APPROVED, NOT FOR
 CONSTRUCTION



OPTION 2 – CHANNELIZED RIGHT TURN LANE WITH INTERSECTION RE-ALIGNMENT

Date: January 11, 2024
 PRELIMINARY LAYOUT PLAN
 NOT APPROVED, NOT FOR
 CONSTRUCTION



PLAN OF SUBDIVISION
 MADE FOR ABRAM MYERS
 BY JEWELL & WALTER, INC.
 REC. 01-15-1975
 NOTE: ROAD WIDENING IS HEREBY OFFERED TO
 GOVERNMENTAL AGENCY HAVING JURISDICTION
 AT TIME OF DEDICATION
 NO EVIDENCE OF ACCEPTANCE FOUND

PLAN OF SUBDIVISION
 PREPARED FOR WESTRUM LAND DEVELOPMENT CORP.
 BY STOUT, TACONELLI & ASSOCIATES, INC.
 REC. 09/23/1992 PB A53 PG 438

STEPHEN C. BAKEY AND
 KAREN S. BAKEY
 PARID: 50-00-02901-20-8
 DB 3002 PG 218

20' WIDE SANITARY SEWER EASEMENT
 PB A51 PG 127
 20' AND 30' WIDE SANITARY SEWER EASEMENT
 DB 5884 PG 171

20' AND 30' WIDE SANITARY SEWER EASEMENT
 DB 5084 PG 211

KEVIN SEE AND KRYSANNA SEE
 PARID: 50-00-02901-10-9
 DB 5830 PG 269

JOHN D. HOPKINS AND JENNIFER S.
 HOPKINS
 PARID: 50-00-00551-60-1
 DB 5051 PG 2091

LAWREN J. NELSON AND
 VICTORIA KUZNETSOV
 PARID: 50-00-00554-69-8
 DB 6035 PG 634

ANDREW SMITH AND LIA SMITH
 PARID: 50-00-00054-69-7
 DB 5603 PG 1324

KENNETH J. MUELLER AND
 JOANNE G. MUELLER
 PARID: 50-00-00054-70-6
 DB 5089 PG 1253

CHRISTOPHER SCINSKI AND
 JENNIFER SCINSKI
 PARID: 50-00-00254-71-5
 DB 6010 PG 1467

ROBERT W. MCFADDEN AND
 CHRISTINA MCFADDEN
 PARID: 50-00-00054-72-4
 DB 5289 PG 0001

NORMAN R. BOHIDAR AND
 MARY L. BOHIDAR
 PARID: 50-00-00054-73-3
 DB 5994 PG 118

PETER J. BOTTKE AND
 LUCY BOTTKE
 PARID: 50-00-00054-74-2
 DB 5730 PG 615

THOMAS SCHNAUBELT AND
 MARY SCHNAUBELT
 PARID: 50-00-02956-00-9
 DB 6283 PG 554

ARNOLDO M. FONSECA AND
 EILEEN M. FONSECA
 PARID: 50-00-02901-00-1
 DB 5658 PG 779

WILLIAM M. WONDER AND
 LILLIAN K. WONDER
 PARID: 50-00-02923-00-6
 DB 5114 PG 1405

CHARLES DITTY AND
 FERN R. DITTY
 PARID: 50-00-02926-00-3
 DB 5172 PG 1309

BRANDON GOOD
 PARID: 50-00-02899-00-3
 DB 6038 PG 712

LISA ANN CAINE
 PARID: 50-00-02863-00-3
 DB 5783 PG 2883

JAMES E. HEMMIG AND
 GWEN M. HEMMIG
 PARID: 50-00-02028-00-3
 DB 5401 PG 206

LOWER SALFORD TOWNSHIP
 DB 4639 PG 230
 10' WIDE PERMANENT EASEMENT
 LOWER SALFORD TOWNSHIP
 PARID: 50-00-00054-00-4
 DB 6041 PG 1985 (BLANKET EASEMENT)

DB 5539 PG 633
 SANITARY SEWER MAIN EASEMENT

TRAFFIC SIGNAL INSTALLATION
 AND MAINTENANCE
 AGREEMENT
 DB 5737 PG 2214

WILLIAM M. WONDER AND
 LILLIAN K. WONDER
 PARID: 50-00-02920-00-9
 DB 4748 PG 783

ABRAM W. JEREMY & SONS
 PARID: 50-00-01725-00-9
 DB 2854 PG 36

SANITARY SEWER EASEMENT
 DB 5019 PG 168