

DISTRICT	COUNTY	TOWNSHIP	BOROUGH	ROUTE	SECTION	TOTAL SHEETS
6-0	BUCKS	NORTHAMPTON		2065 0232	-	94

EPS NO 203412
(FORMERLY EPS NO 134600)

HIGHWAY OCCUPANCY PERMIT PLANS

NORTHAMPTON TOWNSHIP

LOCATION MAP
1"=2000'



Map Copyright July, 2012
Commonwealth of Pennsylvania,
Department of Transportation

PROJECT
LOCATION

DRAWINGS FOR INTERSECTION IMPROVEMENTS FOR PROPOSED ROUNDABOUT AT 2ND STREET PIKE (SR 0232) IN BUCKS COUNTY

FROM STA 130+00.00 TO STA 149+00.00 LENGTH 0.360 MI
FROM SEG 0090 OFFSET 1274 TO SEG 0094/0095 OFFSET 1500

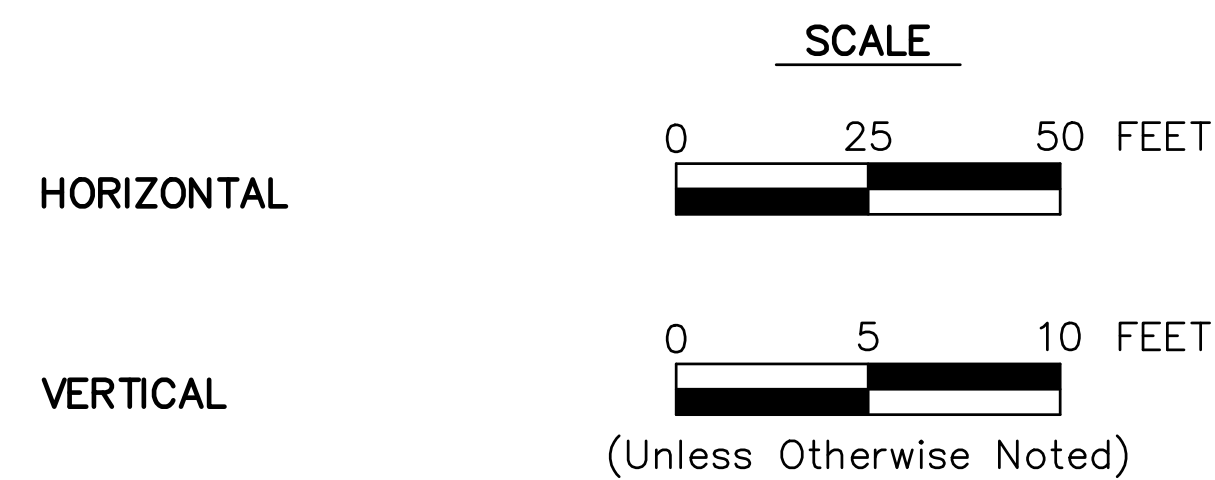
ALSO BUSTLETON PIKE (SR 2065)

FROM STA 499+50.00 TO STA 504+00.00 LENGTH 0.085 MI
FROM SEG 0050 OFFSET 1991 TO SEG 0050 OFFSET 2447

AND TOWNSHIP ROAD (T-605)

FROM STA 30+00.00 TO STA 40+00.00

SHEET NO.	DRAWING TITLE
1	TITLE SHEET
2	INDEX SHEET
3	GENERAL NOTES, UTILITY LIST, LOCATION MAP
4-6	EXISTING CONDITIONS PLAN
7-10	TYPICAL SECTIONS
11-13	GEOMETRY PLAN
14-16	ROADWAY IMPROVEMENT PLAN
17-19	GRADING PLAN
20-24	PROFILES
25-30	SIGNING AND PAVEMENT MARKING PLAN
31	CONSTRUCTION DETAILS
32-42	MAINTENANCE AND PROTECTION OF TRAFFIC
43-61	CROSS SECTIONS
62-78	TRUCK TURNING PLANS
79-94	ADA CURB RAMP PLANS



DESIGN DESIGNATION (SR 0232)

HIGHWAY CLASSIFICATION
POSTED SPEED LIMIT

OTHER PRINCIPAL ARTERIAL
35

TRAFFIC DATA

CURRENT ADT 12578

DESIGN DESIGNATION (SR 2065)

HIGHWAY CLASSIFICATION
POSTED SPEED LIMIT

MINOR ARTERIAL
35

TRAFFIC DATA

CURRENT ADT 9231

ENGINEER:

McMAHON ASSOCIATES, INC.
425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
(215) 283-9444 (215) 283-9447 (FAX)
E-MAIL: bdibiase@mcmahonassociates.com

APPLICANT:

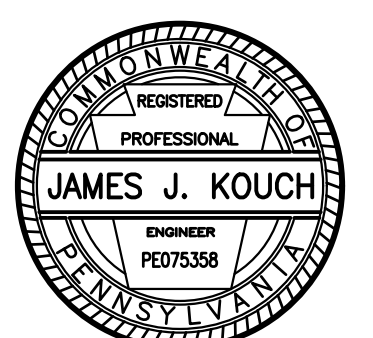
HOP APPLICATION NO. 203412
NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

PENNSYLVANIA ONE CALL SYSTEM, INC.
925 Irwin Run Road
West Mifflin, Pennsylvania
15122 - 1078

BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA! CALL 1-800-242-1776
NON-MEMBERS MUST BE CONTACTED DIRECTLY
PA LAW REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH
20222413381

DATE	DESCRIPTION	NO.
8/29/2022	REVISIONS PER PENNDOT COMMENTS	5
6/28/2022	REVISIONS PER PENNDOT COMMENTS	4
4/23/2020	REVISIONS PER PENNDOT COMMENTS	3
12/12/19	REVISIONS PER PENNDOT COMMENTS	2
10/31/18	REVISIONS PER PENNDOT COMMENTS	1
DATE	DESCRIPTION	NO.

REVISIONS



DATE: 9/30/2022



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506CVR01
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

TITLE SHEET

TABULATION OF PROPERTY OWNERS

PARCEL NO	OWNER	PARCEL NO	OWNER
1	LANDS N/F JAMES A. SMITH PARCEL ID 31-018-021 DB 5593 PG 2146	26	LANDS N/F TOKIYO BASH PARCEL ID 31-009-034 DB 2735 PG 0307
2	LANDS N/F ADDISVILLE COMMONS, LP PARCEL ID 31-018-010 INSTRUMENT # 2016056206	27	LANDS N/F BHARAT A. SHAH PARCEL ID 31-009-034 DB 2347 PG 2336
3	LANDS N/F ADDISVILLE COMMONS, LP PARCEL ID 31-018-011 INSTRUMENT # 2016056206	28	LANDS N/F ECB PROPERTIES, LLC PARCEL ID 31-009-033
4	LANDS N/F ADDISVILLE COMMONS, LP PARCEL ID 31-018-012 INSTRUMENT # 2016056206	29	LANDS N/F REFORMED DUTCH CHURCH ADDISVILLE PARCEL ID 31-015-148 DB 2515 PG 0275
5	LANDS N/F ADDISVILLE COMMONS, LP PARCEL ID 31-018-014 INSTRUMENT # 2016056206	30	LANDS N/F LAWRENCE R. SHEETZ, DISCLAIMER CREDIT SHELTER TRUST PARCEL ID 31-015-147 DB 6654 PG 0028
6	LANDS N/F NORTHAMPTON TOWNSHIP PARCEL ID 31-015-142-005 DB 1988 PG 998	31	LANDS N/F LAWRENCE R. SHEETZ, DISCLAIMER CREDIT SHELTER TRUST PARCEL ID 31-015-146 DB 6654 PG.0028
7	LANDS N/F WILLIAM PENN SAVINGS & LOAN ASSOCIATES PARCEL ID 31-015-142-002 DB 2487 PG 192		
8	LANDS N/F RICHBORO 909 ENTERPRISE, LP PARCEL ID 31-015-142-006 DB 4819 PG 1212		
9	LANDS N/F THOMAS DIANNE CAMPBELL PARCEL ID 31-015-142 INSTRUMENT # 2016038019		
10	LANDS N/F RICHBORO-GELT PARTNERS. LLC PARCEL ID 31-015-145 DB 6004 PG 27		
11	LANDS N/F NORTHAMPTON TOWNSHIP PARCEL ID 31-015-142-008 DB 3360 PG 1573		
12	LANDS N/F NORTHAMPTON, BUCKS COUNTY MUNICIPAL AUTHORITY PARCEL ID 31-015-142-007 DB 1757 PG 1622		
13	LANDS N/F NORTHAMPTON TOWNSHIP PARCEL ID 31-015-142-003 DB 2131 PG 628		
14	LANDS N/F ADDISVILLE COMMONS, LP PARCEL ID 31-018-009 INSTRUMENT # 2016013897		
15	LANDS N/F ADDISVILLE COMMONS, LP PARCEL ID 31-018-008 INSTRUMENT # 2016006811		
16	LANDS N/F ADDISVILLE COMMONS, LP PARCEL ID 31-018-007 INSTRUMENT # 2016006896		
17	LANDS N/F EDWARD M. & K.PATRICIA ADAMOW PARCEL ID 31-018-018 DB 2387 PG 1125		
18	LANDS N/F JAMES A. SMITH PARCEL ID 31-018-020 DB 5993 PG 2146		
19	LANDS N/F NORTHAMPTON TOWNSHIP PARCEL ID 31-009-016		
20	LANDS N/F OHEV SHALOM BUCKS CO PARCEL ID 31-009-016-001 DB 1289 PG 1189		
21	LANDS N/F MCDONALD'S CORP PARCEL ID 31-009-002 DB 2341 PG 0103		
22	LANDS N/F RICHARD G. & RENATE DEJAMES PARCEL ID 31-009-015 DB 2535 PG 0781		
23	LANDS N/F S&S PROP PART PARCEL ID 31-009-014 DB 2852 PG 0913		
24	LANDS N/F TORRINO PARTNERS PARCEL ID 31-009-013 DB 6848 PG 0419		
25	LANDS N/F GENE EPSTEIN PARCEL ID 31-009-011 DB 6229 PG 0899		

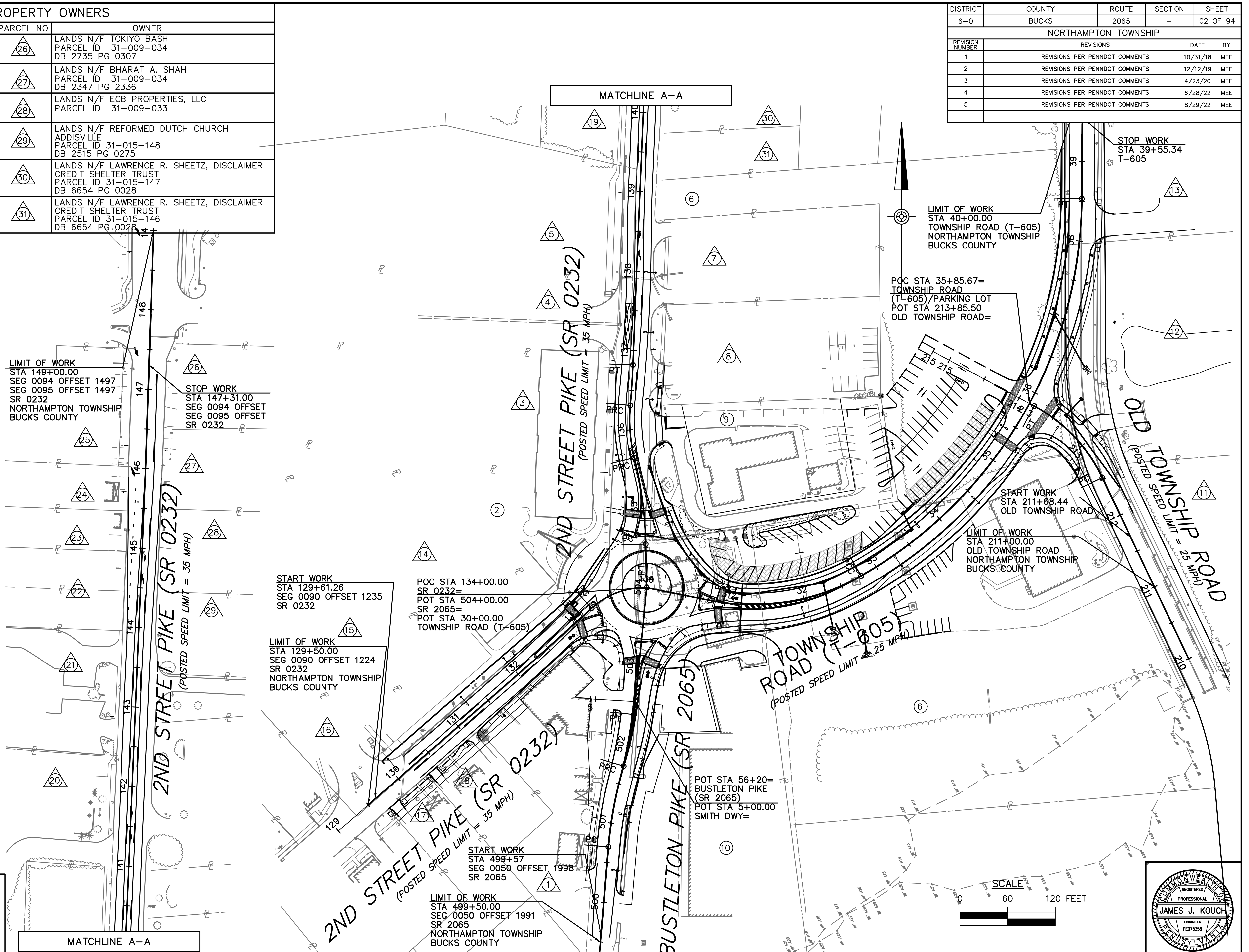
TABULATION OF SEGMENT EQUALITIES
STA 134+00.00 = SEGMENT 094/095 OFFSET 0000

LEGEND

- PARCEL IDENTIFICATION NUMBER
- △ PARCEL IDENTIFICATION NUMBER - NO TAKE

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	02 OF 94

NORTHAMPTON TOWNSHIP			
REVISION NUMBER	REVISIONS	DATE	BY
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE



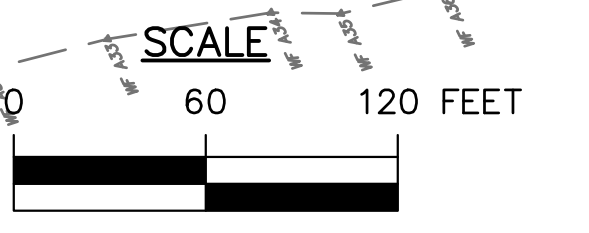
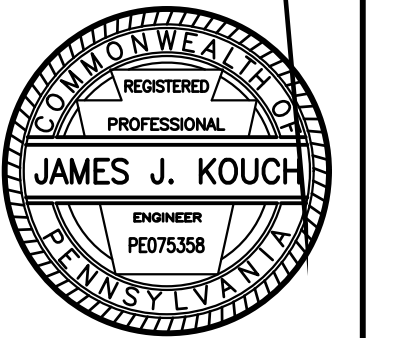
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NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
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RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

INDEX SHEET



PENNDOT PUB. 282 NOTES

- THE EXISTING SPEED LIMIT ON S.R. 0232 IS 35 M.P.H. THE EXISTING SPEED LIMIT ON S.R. 2065 IS 35 M.P.H.
- THE RIGHT-OF-WAY IS FREE ACCESS. (LIMITED OR FREE)
- ALL WORK IN PA STATE HIGHWAY RIGHT-OF-WAY IS TO BE PERFORMED CONSISTENT WITH THE FOLLOWING:
 - PENNDOT PUBLICATION 13M, DESIGN MANUAL PART 2 – HIGHWAY DESIGN
 - PENNDOT PUBLICATION 34, APPROVED AGGREGATE PRODUCERS (BULLETIN 14)
 - PENNDOT PUBLICATION 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15)
 - PENNDOT PUBLICATION 41, PRODUCERS OF BITUMINOUS MATERIALS (BULLETIN 41)
 - PENNDOT PUBLICATION 42, PRODUCERS OF READY-MIX CONCRETE (BULLETIN 42)
 - PENNDOT PUBLICATION 46, TRAFFIC ENGINEERING MANUAL
 - PENNDOT PUBLICATION 72M, STANDARDS FOR ROADWAY CONSTRUCTION
 - PENNDOT PUBLICATION 111, PAVEMENT MARKINGS AND SIGNING STANDARDS
 - PENNDOT PUBLICATION 212, OFFICIAL TRAFFIC CONTROL DEVICES
 - PENNDOT PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES
 - PENNDOT PUBLICATION 408, SPECIFICATIONS
- DETAILS, OTHER THAN THOSE INDICATED, ARE ON THE FOLLOWING STANDARD DRAWINGS: SEE STANDARD DRAWING LIST, THIS PAGE.
- THE DRIVEWAY HAS BEEN DESIGNED (AND WILL BE CONSTRUCTED AND MAINTAINED) CONSISTENT WITH TITLE 67, CHAPTER 441 REGULATIONS.
- PA STATE HIGHWAY RIGHT-OF-WAY MAY NOT BE USED FOR PARKING.
- PERMITTEE IS RESPONSIBLE FOR MAINTENANCE OF ALL AUTHORIZED STRUCTURES, FACILITIES AND DRAINAGE.
- PERMITTEE IS RESPONSIBLE FOR MAINTENANCE OF ALL AUTHORIZED SIGNS AND PAVEMENT MARKINGS.
- CONTACT PENNSYLVANIA ONE-CALL (1-800-242-1776) THREE WORKING DAYS BEFORE EXCAVATION OR DEMOLITION WORK. SERIAL NUMBER 20163650509 AND 20170791196.
- DISTANCE TO THE NEAREST INTERSECTION IS:
 - RT. 1550', LT. 850'.
 - DISTANCE TO THE NEAREST TRAFFIC SIGNAL IS 850 FEET.
 - DISTANCE TO THE NEAREST OPPOSITE DRIVEWAY IS: RT. 310', LT. 152'.
 - DISTANCE TO THE NEAREST ADJACENT DRIVEWAY IS: RT. 162', LT. 450'.
- IF A TRAFFIC SIGNAL IS WITHIN 500 FEET OF THE SITE, CALL THE DISTRICT TRAFFIC ENGINEER AT (610) 205-6567 AT LEAST 3 DAYS PRIOR TO THE START OF WORK.
- THIS PERMIT MAY BE RESTRICTED ON WORKING HOURS AND TIMES FOR HOLIDAYS, WEEKENDS, AND SPECIAL OR UNFORESEEN EVENTS AND WILL REQUIRE APPROVAL FROM THE COUNTY OFFICE PRIOR TO WORKING DURING THESE PERIODS.

PENNDOT PUB 282 NOTES (CONT'D)

- THE PERMITTEE'S CONTRACTOR SHALL SAWCUT AND REMOVE SHOULDER MATERIAL AS NECESSARY TO ENSURE THE PAVEMENT REPLACEMENT IS ADJACENT TO THE FULL-DEPTH PAVEMENT OF THE TRAVEL LANE.
- FINAL APPROVAL OF THE PROPOSED SAWCUT LOCATION WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE AND WILL BE CONFIRMED AT THE PRE-CONSTRUCTION MEETING. IF THE SAWCUT MUST BE LOCATED WITHIN A TRAVEL LANE, IT WILL BE NECESSARY TO MILL AND OVERLAY THE TRAVEL LANE TO PREVENT A JOINT IN A WHEEL PATH.
- THE PROPOSED PAVEMENT SECTION MUST BE AS INDICATED ON THE PLAN, OR MATCH THE EXISTING AS FOUND IN THE FIELD, WHICHEVER IS GREATER.
- PRIOR TO AN OVERLAY, BITUMINOUS OR CONCRETE BASE REPAIR OR JOINT REPLACEMENT MAY BE REQUIRED. REPAIR/REPLACEMENT WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE.
- ALL EXISTING PAVEMENT MARKINGS WHICH ARE NO LONGER APPROPRIATE SHALL BE ERADICATED BY THE PERMITTEE. THE PERMITTEE SHALL PLACE ALL REQUIRED NEW PAVEMENT MARKINGS.
- ALL EXISTING PAVEMENT MARKINGS OTHER THAN LONGITUDINAL LINES TO BE HOT THERMOPLASTIC (PENNDOT PUBLICATION 111, TC-8600).
- MATCH EXISTING PAVEMENT MARKINGS AT THE LIMITS OF WORK.
- MATERIAL CERTIFICATION MUST BE PROVIDED, BY AN APPROVED MANUFACTURER LISTED IN THE DEPARTMENT'S PUBLICATION 35 (BULLETIN 15), FOR ALL MATERIALS AND STRUCTURES WITHIN PENNDOT RIGHT-OF-WAY.
- THE PERMITTEE SHALL CONTACT THE COUNTY MAINTENANCE MANAGER AT THE TIME OF THE GUIDERAIL REMOVAL; ALL EXISTING GUIDERAIL TO BE REMOVED SHALL BE TRANSPORTED TO AND STORED AS PER THE DIRECTION FROM THE COUNTY.
- ALL PROPOSED PEDESTRIAN FACILITIES REFLECTED ON THESE PLANS, INCLUDING THOSE THAT ARE OUTSIDE OF PENNDOT LEGAL RIGHT-OF-WAY, SHALL BE CONSTRUCTED TO COMPLY WITH THE REQUIREMENTS OF THE U.S. ACCESS BOARD, PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) OF THE ACCESSIBILITY GUIDELINES OF BUILDINGS AND FACILITIES (ADAAG). PENNDOT DESIGN MANUAL PART 2, CHAPTER 6, AND PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION (PENNDOT PUBLICATION 72M, (RC-67M) PROVIDE GUIDANCE ON ADA ACCESSIBLE DESIGN FOR PEDESTRIAN FACILITIES AND CAN BE UTILIZED FOR REFERENCE.
- ALL SLOPE MEASUREMENTS WILL BE INSPECTED/VERIFIED WITH A 2-FOOT SMART LEVEL.
- IT IS THE RESPONSIBILITY OF THE PERMITTEE TO REMOVE ANY DEBRIS AND FLUSH OUT ALL EXISTING AND NEW STORM DRAINAGE FACILITIES WITHIN THE PROJECT LIMITS AT THE COMPLETION OF CONSTRUCTION.
- MODIFICATIONS TO EXISTING DRAINAGE STRUCTURES MAY RESULT IN THE NEED TO REPLACE THE STRUCTURE. REPLACEMENT WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE.
- STRUCTURAL STEEL BICYCLE SAFE GRATES MUST BE PROVIDED FOR ALL INLETS WITHIN THE ROADWAY PAVEMENT OF THOSE THAT MAY RECEIVE BICYCLE TRAFFIC (PENNDOT PUBLICATION 72M, RC-45M).

PENNDOT PUB 282 NOTES (CONT'D)

- THE RESPONSIBILITY FOR ENSURING THAT ALL UTILITY POLES WITHIN THE PROPOSED PAVING ARE RELOCATED OUTSIDE OF PAVED AREAS AND SHOULDERS SHALL BE THAT OF THE PERMITTEE. THE UTILITY POLES MUST BE RELOCATED BEFORE THE START OF ANY PAVING OPERATIONS.
- THE PERMITTEE IS RESPONSIBLE FOR THE COORDINATION OF RELOCATING ANY CONFLICTING UTILITIES WHICH ARE A RESULT OF THESE IMPROVEMENTS.
- ALL UTILITY RELOCATION PERMITS TAKE PRECEDENCE OVER THE UTILITY RELOCATION POSITIONS SHOWN ON THE HOP PLANS.
- THE LEGAL RIGHT-OF-WAY FOR SR 0232 IS 50'. THE LEGAL RIGHT-OF-WAY FOR SR 2065 IS 40'. THE LEGAL RIGHT-OF-WAY FOR SR 0232 IS BASED ON PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PLANS TITLED "DRAWINGS FOR AUTHORIZING ACQUISITION OF RIGHT-OF-WAY FOR SR 1004, SEC NP1R/W AND SR 0463, SEC NP1 R/W", DATED SEPTEMBER 9, 1996, REAUTHORIZED AND REVISED JUNE 19, 1998.

PERMIT GENERAL NOTES

- DRAINAGE INSTALLED BY THIS PERMIT IS THE PRIMARY RESPONSIBILITY OF THE LOCAL GOVERNMENT TO CONTINUALLY MAINTAIN OR REPLACE.
- PRIVATE CO-PERMITTEE IS RESPONSIBLE FOR PROVIDING FUNDING TO THE LOCAL GOVERNMENT TO OFFSET FUTURE MAINTENANCE COSTS ASSOCIATED WITH THE PERMITTED DRAINAGE FACILITIES.
- IT IS THE RESPONSIBILITY OF THE PERMITTEE TO NOTIFY THE AFFECTED PROPERTY OWNERS OF THE PROPOSED CONSTRUCTION AND THE MODIFICATIONS ALONG THEIR PROPERTY FRONTAGE AND AT THEIR DRIVEWAY WITHIN THE LEGAL RIGHT-OF-WAY. COPIES OF THE WRITTEN NOTIFICATION(S), INCLUDING CERTIFIED MAIL RECEIPTS, MUST BE PROVIDED WITH THE HOP APPLICATION PRIOR TO ISSUANCE OF A PERMIT. COPIES OF THE WRITTEN NOTIFICATIONS MUST ALSO BE KEPT ON FILE WITH THE APPLICANT'S ORIGINAL HIGHWAY OCCUPANCY PERMIT.
- IT IS THE RESPONSIBILITY OF THE PERMITTEE TO MAKE ADJUSTMENTS TO THE AFFECTED DRIVEWAYS WITHIN THE LIMITS OF WORK. THE PERMITTEE SHALL ENSURE THAT THE SIGHT DISTANCE OF THE DRIVEWAYS SERVICING PROPERTIES WITHIN THE LIMITS OF WORK OR AT PUBLIC INTERSECTIONS IS NOT REDUCED [UNLESS EXISTING AND PROPOSED VALUES EXCEED THE DESIRABLE VALUES SPECIFIED IN THE PENNSYLVANIA CODE, TITLE 67, TRANSPORTATION, CHAPTER 441.8 (H)(1)] AS A RESULT OF THE WORK PERFORMED IN ACCORDANCE WITH THE STATE HIGHWAY OCCUPANCY PERMIT.

UTILITY GENERAL NOTES

- ALL CONTRACTORS WORKING ON THIS PROJECT SHALL COMPLY WITH REQUIREMENTS OF P.L. 852, NO. 287, DECEMBER 1974 AS AMENDED ON OCTOBER 30, 2017 BY PENNSYLVANIA ACT 50 ENTITLED UNDERGROUND UTILITY LINE PROTECTION ACT.
- MCAHON ASSOCIATES, INC. MAKES NO CLAIM AS TO THE ACCURACY OF THE UNDERGROUND UTILITIES SHOWN ON THESE PLANS. THE EXISTING UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY THE UTILITY COMPANIES VIA PLANS AND SITE MARK-OUTS, IN ADDITION TO ASSUMPTIONS MADE FROM SITE OBSERVATIONS OF VISIBLE SURFACE FEATURES. THE VERTICAL DEPTHS SHOWN ARE APPROXIMATE AS TAKEN FROM THE UTILITY AS-BUILT PLANS AND INTERPOLATION BETWEEN TEST PIT LOCATIONS SHOWN ON THE PLANS (WHEN AVAILABLE) OR ASSUMED DEPTHS (WHEN NOT AVAILABLE) AND HAVE NOT BEEN ACCURATELY LOCATED BY TEST PITS/SOFT-DIG OR OTHER GEOPHYSICAL TECHNIQUES (UNLESS INDICATED).
- THE CONTRACTOR WILL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO ALLOW ADEQUATE TIME FOR REVISIONS AND APPROVALS TO THE PLANS, IF REVISIONS ARE NECESSARY, OR TO REQUEST THE RELOCATION OF THE EXISTING FACILITY BY THE UTILITY. THE CONTRACTOR MUST NOTIFY THE ENGINEER OF WORK IF ANY DISCREPANCIES IN UNDERGROUND UTILITY LINE LOCATIONS ARE FOUND. THE COSTS FOR THE EXPLORATION WORK SHALL BE INCIDENTAL TO THE ITEMS INCLUDED IN THE CONTRACTOR'S BID. ADDITIONALLY, THE CONTRACTOR MUST VERIFY EXISTING DRAINAGE STRUCTURE INVERTS AND THE DEPTHS AND LOCATIONS OF EXISTING DRAINAGE PIPES PRIOR TO ORDERING ANY PROPOSED DRAINAGE FACILITIES.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED TO TAKE MEASUREMENTS OF UTILITY LOCATIONS IN THE FIELD AND TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE PENNSYLVANIA ONE CALL SYSTEM (PHONE: 1-800-242-1776) THREE WORKING DAYS IN ADVANCE OF ANY EXCAVATION FOR THE MARK-OUT OF THE LOCATION OF UTILITIES AND NOTIFICATION OF COMMENCEMENT OF WORK. IT IS THE

UTILITY GENERAL NOTES (CONT'D)

RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL UTILITY MARKINGS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. IF UTILITY MARKINGS ARE OBLITERATED, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING PA ONE CALL FOR MARKOUT.

- IN ACCORDANCE WITH PENNSYLVANIA ACT 287, AS AMENDED ON OCTOBER 9, 2008 BY PENNSYLVANIA ACT 121, THE EXISTING UTILITY USERS LINES SHOWN ON THESE PLANS ARE BASED ON INFORMATION PROVIDED BY THE USERS VIA PLANS AND SITE MARKOUT. VERTICAL INFORMATION IS PROVIDED VIA RESPONDING USER'S PLANS AND IS APPROXIMATE. THE CONTRACTOR IS SPECIFICALLY CAUTIONED TO TAKE MEASUREMENTS OF UTILITY LOCATIONS IN THE FIELD. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS, AS THE UTILITY INFORMATION MAY NOT BE EXACT OR COMPLETE.
- IF IT IS NECESSARY TO RELOCATE OR CONNECT INTO EXISTING UTILITIES WITHIN PENNDOT AND/OR MUNICIPALITY RIGHT-OF-WAY, IT WILL BE THE RESPONSIBILITY OF THE UTILITY OR THEIR APPOINTED CONTRACTOR TO OBTAIN THE NECESSARY PERMITS FROM PENNDOT AND/OR THE MUNICIPALITY.
- IF THE PROPOSED IMPROVEMENTS REQUIRE THE RELOCATION OF PENNDOT FIBER OPTIC CABLE(S), THE PERMITTEE IS RESPONSIBLE FOR THE FULL EXPENSE OF RELOCATING THESE FACILITIES. ANY FIBER OPTIC CABLE THAT REQUIRES RELOCATION MUST BE MOVED A CONTRACTOR CERTIFIED BY PENNDOT TO PERFORM THIS TYPE OF WORK.
- IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO PROTECT ALL MANHOLES, VALVE BOXES, ETC. EXPOSED BY MILLING OR OTHER OPERATIONS UNTIL THE FINAL BITUMINOUS WEARING COURSE IS APPLIED. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO GRADE ADJUST/ RELOCATE OR HAVE ADJUSTED OR RELOCATED BY THE APPROPRIATE UTILITY COMPANY, ALL MANHOLES, VALVE COVERS, ETC. WHICH FALL WITHIN THE PROJECT LIMITS.

CONSTRUCTION GENERAL NOTES

- A PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN PENNDOT, THE MUNICIPALITY, THE APPLICANT, THE CONTRACTOR, THE ENGINEER, AND ALL UTILITIES TO CLARIFY AND COORDINATE ALL CONSTRUCTION DETAILS.
- ALL CONSTRUCTION DETAILED ITEMS WILL REQUIRE SHOP DRAWINGS TO BE SUBMITTED TO MCAHON ASSOCIATES, INC. ALL SHOP DRAWINGS WILL BE REVIEWED FOR THOROUGHNESS, ACCURACY, AND COMPLIANCE BY OUR CONSTRUCTION SERVICES STAFF. ALL CONSTRUCTION MATERIALS SHOULD BE SUPPLIED BY MANUFACTURERS LISTED IN PENNDOT PUBLICATION 34 (BULLETIN 14), PUBLICATION 35 (BULLETIN 15), PUBLICATION 41 (BULLETIN 41) OR PUBLICATION 42 (BULLETIN 42). MATERIAL CERTIFICATION MUST BE PROVIDED, BY AN APPROVED MANUFACTURER LISTED IN THE DEPARTMENT'S PUBLICATION 35 (BULLETIN 15), FOR ALL MATERIALS AND STRUCTURES WITHIN THE PENNDOT RIGHT-OF-WAY.
- ONLY PRECAST INLET BOXES SUPPLIED BY MANUFACTURERS LISTED IN PENNDOT PUBLICATION 35, (BULLETIN 15) SHALL BE PERMITTED. ANY INLET THAT EXCEEDS FIVE (5) FEET IN DEPTH SHALL HAVE STEPS SIMILAR TO A MANHOLE (SEE PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION, RC-39 & 46, PUB 72M, DATED JUNE 2010 OR MOST RECENT EDITION).
- ALL ABANDONED STORM SEWER PIPES NOT CALLED OUT TO BE REMOVED ARE TO BE CAPPED AND FILLED WITH FLOWABLE CONCRETE FILL IN ACCORDANCE WITH PUB. 408, SECTION 220.
- FORM CONCRETE IN THE BOTTOM OF ALL PROPOSED DRAINAGE STRUCTURES TO CHANNEL FLOW TOWARD THE OUTLET PIPE ACCORDING TO RC-46M.
- THE PROPOSED STORM PIPE LENGTHS INDICATED ON THE PLANS ARE A SCALED QUANTITY MEASURED FROM STRUCTURE CENTER TO STRUCTURE CENTER AND ARE NOT INTENDED FOR CONSTRUCTION PURPOSES.
- PAVEMENT BASE DRAIN SHALL CONNECT TO PROPOSED DRAINAGE INLETS OR EXISTING FACILITIES. COMBINATION STORM SEWER, AND UNDERDRAIN SHALL BE INSTALLED IN LIEU OF THE PAVEMENT BASE DRAIN WHERE THERE IS CONCRETE PIPE ALONG THE CURB LINE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY BACKFILLING AND COMPACTING ALL TRENCHES. NO TRENCHES ARE TO BE LEFT OPEN AFTER COMPLETION OF WORK FOR THE DAY. ALL CONSTRUCTION AREAS ARE TO BE KEPT IN A CONDITION THAT ALLOWS FOR SAFE MOVEMENT OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC. ANY EXCESS MATERIAL FROM TRENCHING, OTHER EXCAVATION ACTIVITIES, AND UNSUITABLE MATERIAL SHALL BE DELIVERED TO A LAWFUL SITE LOCATION IN ACCORDANCE WITH SECTION 203.3 OF PUBLICATION 408/2016 BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- NO UNSUITABLE MATERIAL IS TO BE USED IN ANY PORTION OF THE ROADWAY CONSTRUCTION. REMOVE ANY SUBGRADE THAT CANNOT BE PROPERLY COMPACTED AND THAT IS UNSUITABLE MATERIAL. UNDERCUTTING AND/OR SUBGRADE STABILIZATION MAY BE REQUIRED. THE SUBGRADE MUST BE APPROVED BY A PENNDOT REPRESENTATIVE PRIOR TO PLACEMENT OF SUBBASE. A QUALIFIED THIRD PARTY GEOTECHNICAL PROFESSIONAL ENGINEER WITH EXPERIENCE IN ROAD SUBGRADE REMEDIATION MUST BE PRESENT FOR INSPECTION AND PLACEMENT OF SUBBASE.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	03 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

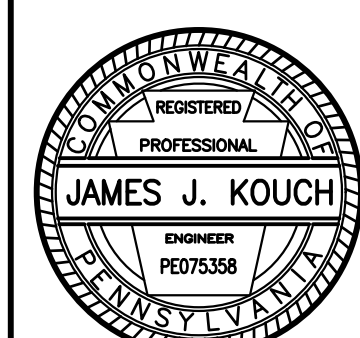
CONSTRUCTION GENERAL NOTES (CONT'D)

- THE WORK ASSOCIATED WITH UNDERCUTTING AND/OR SUBGRADE STABILIZATION INCLUDES CLASS 1A EXCAVATION. PLACEMENT OF GEOTEXTILE, CLASS 4, AND MODIFIED STONE (AASHTO NO. 1 AND NO. 10 IN A 90:10 MIX RATIO). A PENNDOT FIELD REPRESENTATIVE MUST BE PRESENT FOR ALL SUBGRADE COMPACTION PRIOR TO PLACEMENT OF SUBBASE MATERIALS.
- ALL DISTURBED GRASS/LANDSCAPE AREAS OUTSIDE THE ROADWAY IMPROVEMENT AREAS MUST BE RETURNED TO THE ORIGINAL CONDITION OR BETTER. INSTALL TOPSOIL AND SEEDING, 4" THICK WITH MULCHING (STRAW) FOR DISTURBED AREAS TO THE SATISFACTION OF THE BUCKS COUNTY CONSERVATION DISTRICT.
- ALL EXISTING VEGETATION MUST BE CUT SO THAT IT IS AT LEAST 5' BEHIND THE FACE OF CURB AND 20' ABOVE THE PAVEMENT.
- ALL PROPOSED BARRIER CURB TO BE CONSTRUCTED WITH AN 8" REVEAL, UNLESS OTHERWISE NOTED.
- ANY DAMAGED OR SUBSTANDARD CURB WITHIN THE LIMITS OF WORK SHALL BE REPLACED AS NECESSARY.
- THE CONTRACTOR IS RESPONSIBLE FOR NOTCHING PAVEMENT JOINTS AND SEALING WITH PG 64-22, IN ACCORDANCE WITH PENNDOT SPECIFICATIONS 408, SECTION 409 AND 469.
- SAWCUT LINE LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DEEMED NECESSARY BY A PENNDOT REPRESENTATIVE.

STANDARD DRAWING LIST

THE PERMITTEE IS REQUIRED TO PROVIDE THE CONTRACTOR WITH COPIES OF THE MOST CURRENT STANDARD DRAWINGS FROM THE APPROPRIATE PENNDOT PUBLICATION. DETAILS OTHER THAN THOSE INDICATED ARE ON THE FOLLOWING STANDARD DETAILS FROM PENNDOT PUBLICATIONS 72, 111 & 218:

STANDARD DRAWING	DRAWING DATE	STANDARD DRAWING	DRAWING DATE
RC-10	JUNE 1, 2010	RC-64	FEBRUARY 19, 2021
RC-13	JUNE 1, 2010	RC-65	DECEMBER 17, 2019
RC-20	NOVEMBER 30, 2021	RC-67	FEBRUARY 19, 2021
RC-30	NOVEMBER 30, 2021	RC-70	FEBRUARY 8, 2019
RC-39	NOVEMBER 30, 2021	RC-71	AUGUST 4, 2017
RC-45	FEBRUARY 19, 2021		
RC-46	FEBRUARY 19, 2021		





425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506GEN01
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

GENERAL NOTES

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	04 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

SURVEY GENERAL NOTES

1. THE EXISTING TOPOGRAPHIC INFORMATION AND BASE SURVEY INFORMATION WAS PROVIDED BY MCMAHON ASSOCIATES, INC., FIELD SURVEY DATED JANUARY 5, 2016. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE EXISTING TOPOGRAPHIC AND BASE SURVEY INFORMATION PROVIDED IN THESE PLANS. THE CONTRACTOR SHOULD CONTACT THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION IF THERE ARE ANY DIFFERENCES BETWEEN THE FIELD CONDITIONS AND BASE SURVEY SHOWN ON THE PLANS.
2. THE HORIZONTAL CONTROL FOR THIS PROJECT IS BASED ON PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.
3. THE VERTICAL CONTROL FOR THIS PROJECT IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
4. THE CONTRACTOR SHOULD CONTACT THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION IF THERE ARE ANY DIFFERENCES BETWEEN THE FIELD CONDITIONS AND BASE SURVEY SHOWN ON THE PLANS.

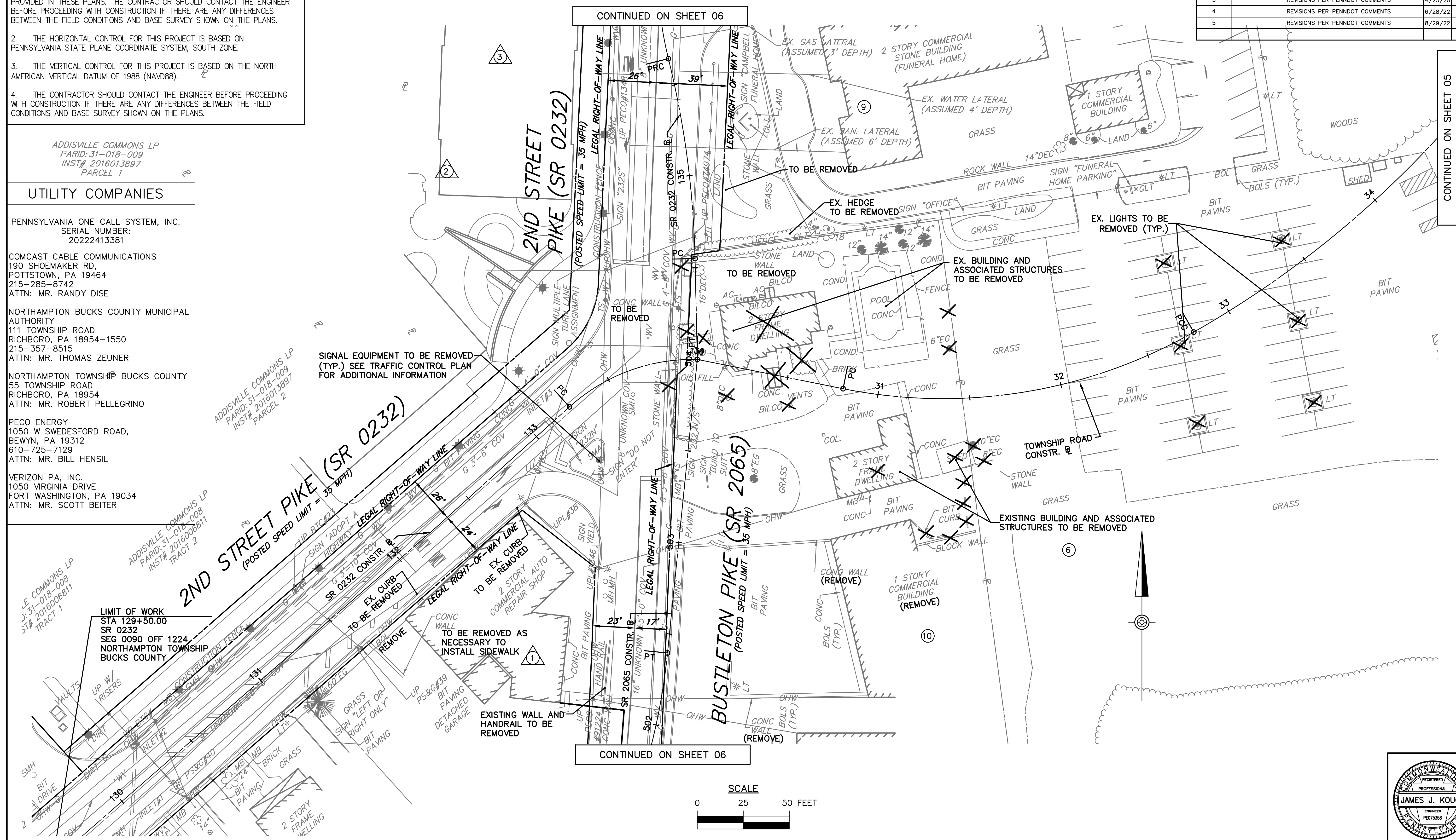
ADDISVILLE COMMONS LP
 PARID: 31-018-009
 INST# 2016013897
 PARCEL 1

UTILITY COMPANIES

- PENNSYLVANIA ONE CALL SYSTEM, INC.
 SERIAL NUMBER:
 20222413381
- COMCAST CABLE COMMUNICATIONS
 190 SHOEMAKER RD,
 POTTSTOWN, PA 19464
 215-285-8742
 ATTN: MR. RANDY DISE
- NORTHAMPTON BUCKS COUNTY MUNICIPAL AUTHORITY
 111 TOWNSHIP ROAD
 RICHBORO, PA 18954-1550
 215-357-8515
 ATTN: MR. THOMAS ZEUNER
- NORTHAMPTON TOWNSHIP BUCKS COUNTY
 55 TOWNSHIP ROAD
 RICHBORO, PA 18954
 ATTN: MR. ROBERT PELLEGRINO
- PECO ENERGY
 1050 W SWEDSFORD ROAD,
 BEWYN, PA 19312
 610-725-7129
 ATTN: MR. BILL HENSIL
- VERIZON PA, INC.
 1050 VIRGINIA DRIVE
 FORT WASHINGTON, PA 19034
 ATTN: MR. SCOTT BEITER

2ND STREET PIKE (SR 0232)
 (POSTED SPEED LIMIT = 35 MPH)

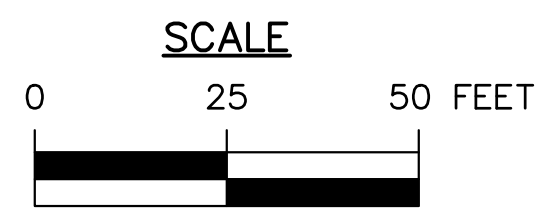
BUSTLETON PIKE (SR 2065)
 (POSTED SPEED LIMIT = 35 MPH)



CONTINUED ON SHEET 06

CONTINUED ON SHEET 05

CONTINUED ON SHEET 06



425 COMMERCE DRIVE
 SUITE 200
 FORT WASHINGTON, PA 19034
 PH: (215) 283-9444
 FAX: (215) 283-9447

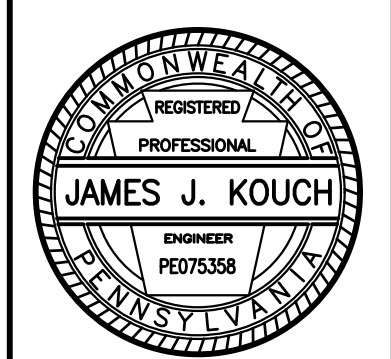
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 DRAWN BY: KLY
 CHECKED BY: BDD

JOB NO: 816506.2A
 DWG: 506ECP01
 DATE: 5/16/18

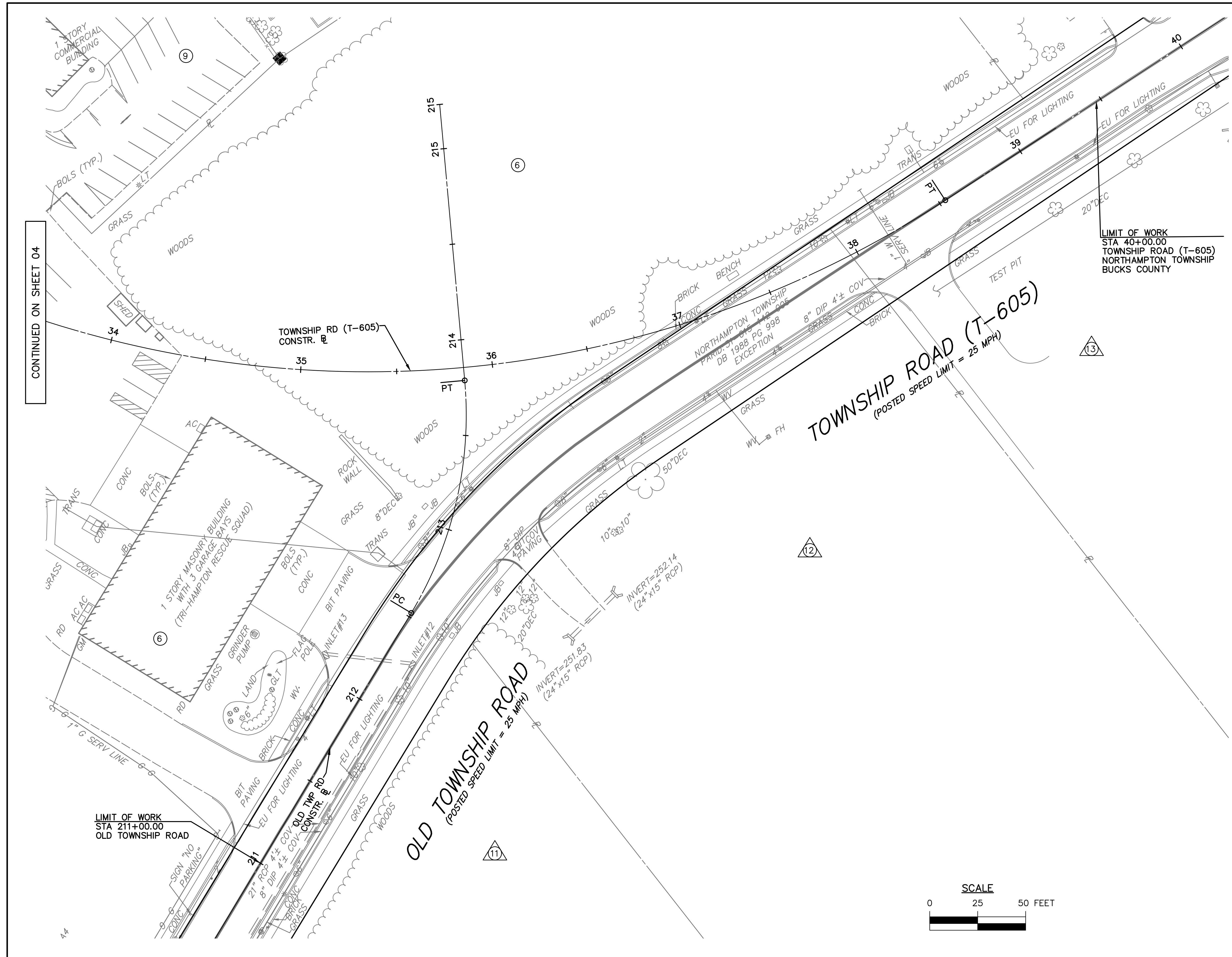
NORTHAMPTON TOWNSHIP
 55 TOWNSHIP RD
 RICHBORO, PA 18954
 (215) 357-6800

RICHBORO ROUNDABOUT
 2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
 NORTHAMPTON TOWNSHIP
 BUCKS COUNTY

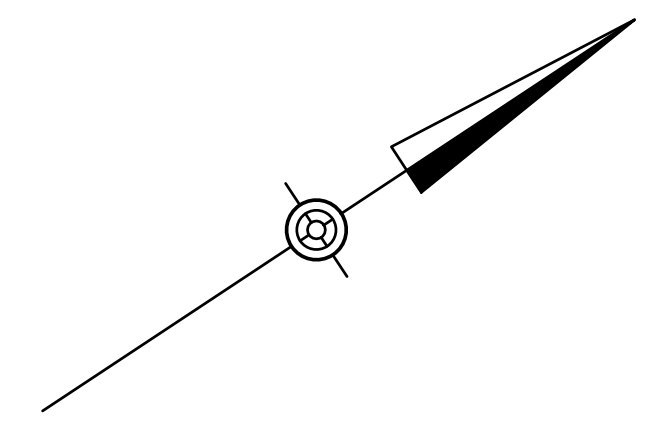
EXISTING CONDITIONS AND DEMOLITION PLAN



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	05 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



LIMIT OF WORK
 STA 40+00.00
 TOWNSHIP ROAD (T-605)
 NORTHAMPTON TOWNSHIP
 BUCKS COUNTY

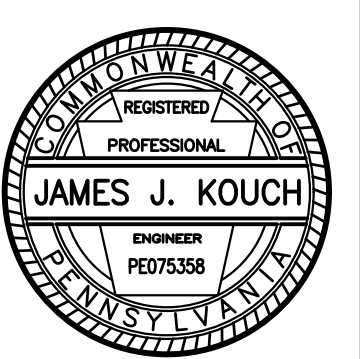
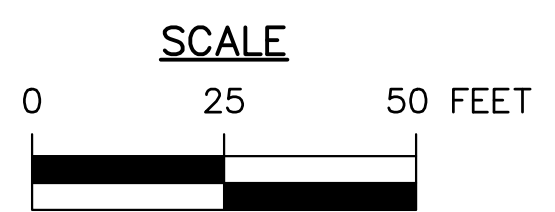


CONTINUED ON SHEET 04

TOWNSHIP ROAD (T-605)
 (POSTED SPEED LIMIT = 25 MPH)

OLD TOWNSHIP ROAD
 (POSTED SPEED LIMIT = 25 MPH)

LIMIT OF WORK
 STA 211+00.00
 OLD TOWNSHIP ROAD



425 COMMERCE DRIVE
 SUITE 200
 FORT WASHINGTON, PA 19034
 PH: (215) 283-9444
 FAX: (215) 283-9447

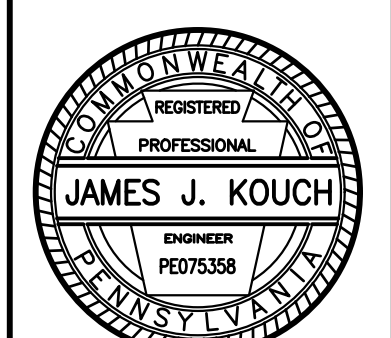
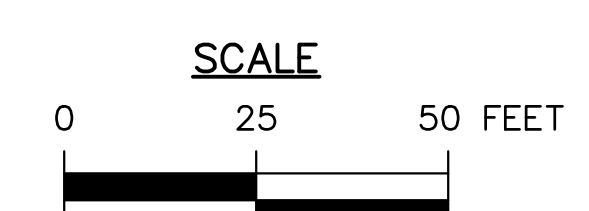
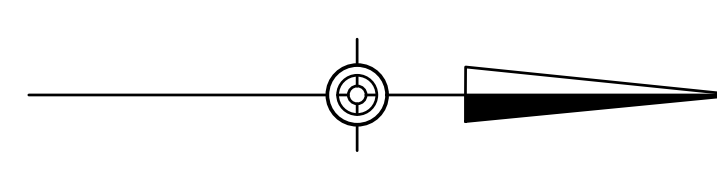
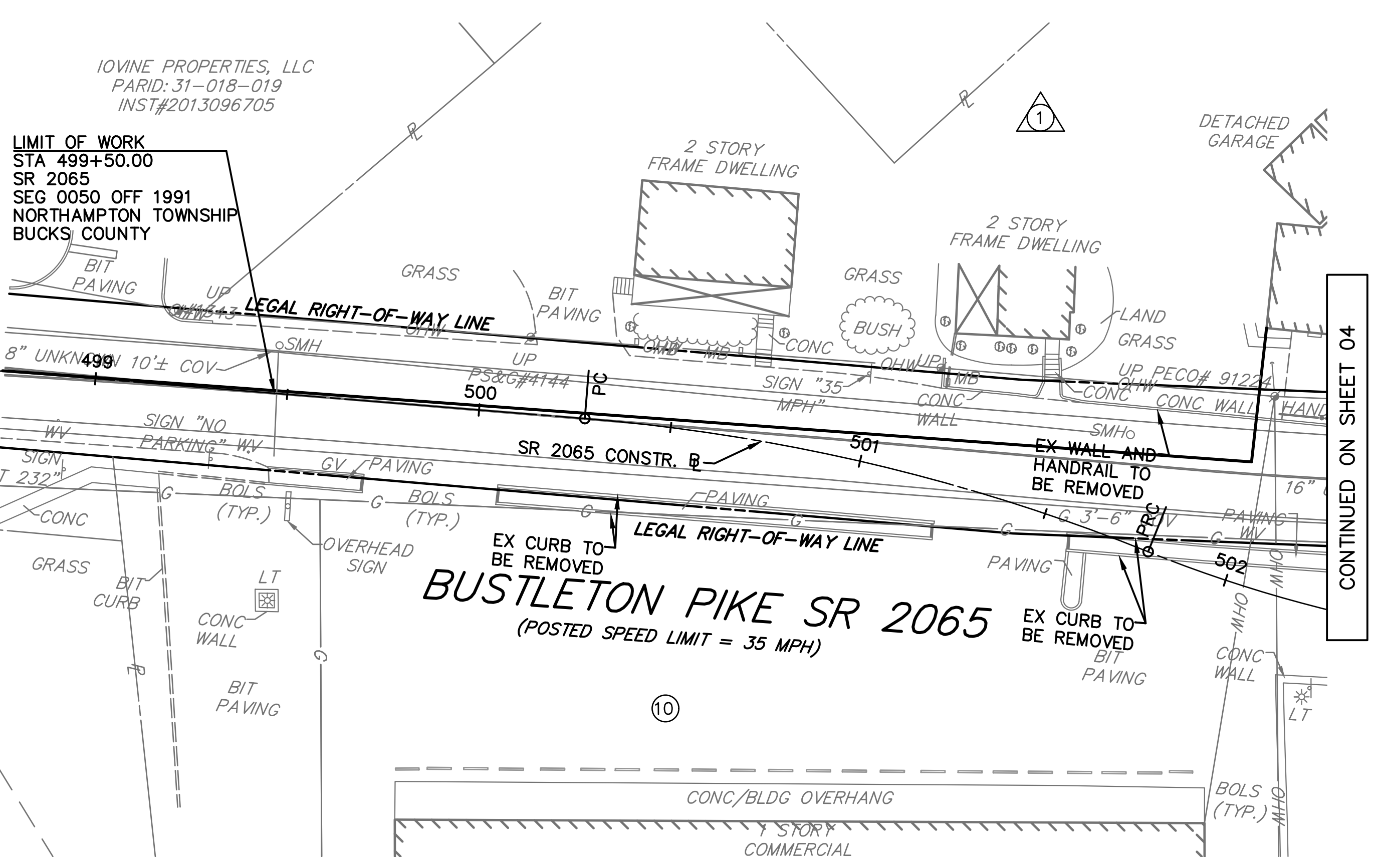
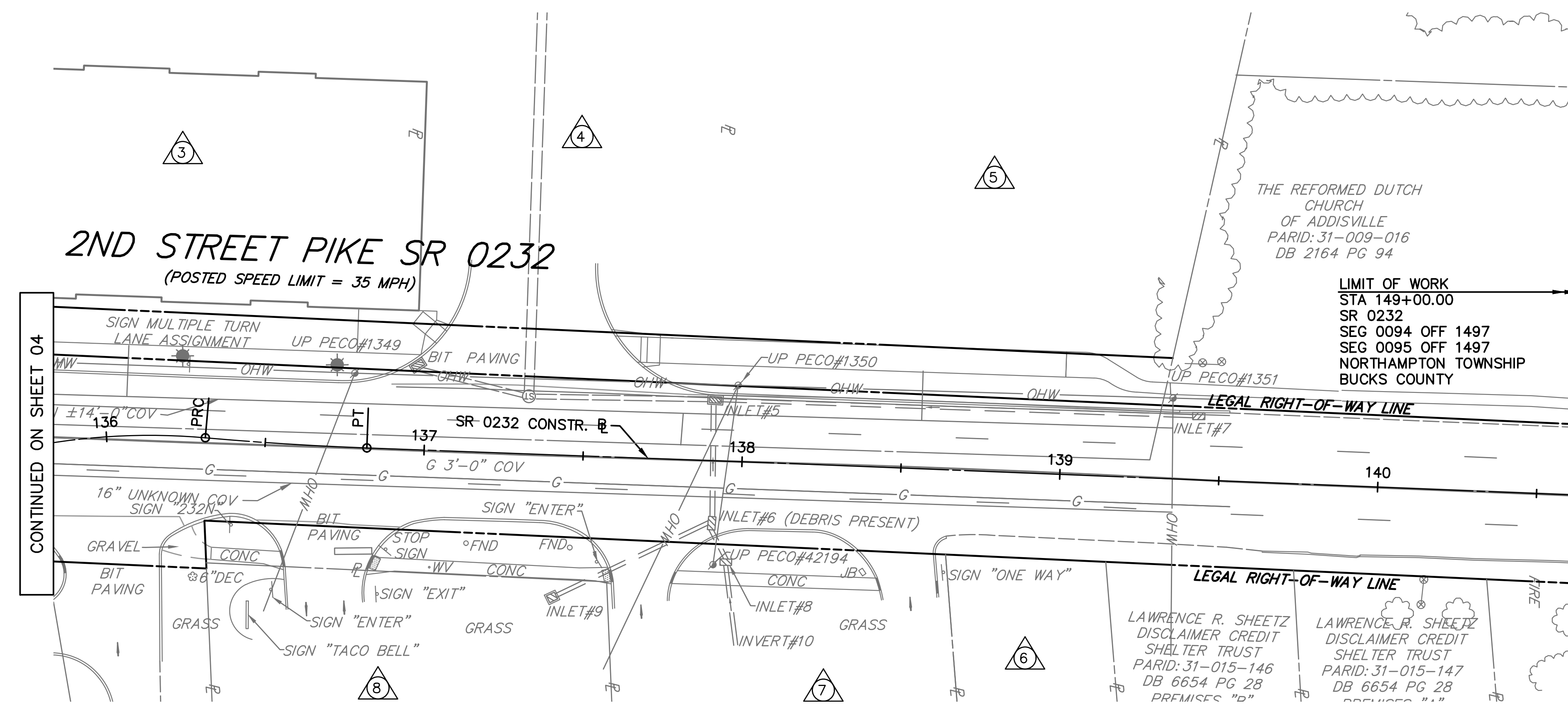
DESIGN BY: KLY
 DRAWN BY: KLY
 CHECKED BY: BDD
 JOB NO: 816506.2A
 DWG: 506ECP02
 DATE: 5/16/18

NORTHAMPTON TOWNSHIP
 55 TOWNSHIP RD
 RICHBORO, PA 18954
 (215) 357-6800

RICHBORO ROUNDABOUT
 2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
 NORTHAMPTON TOWNSHIP
 BUCKS COUNTY

EXISTING CONDITIONS AND
 DEMOLITION PLAN

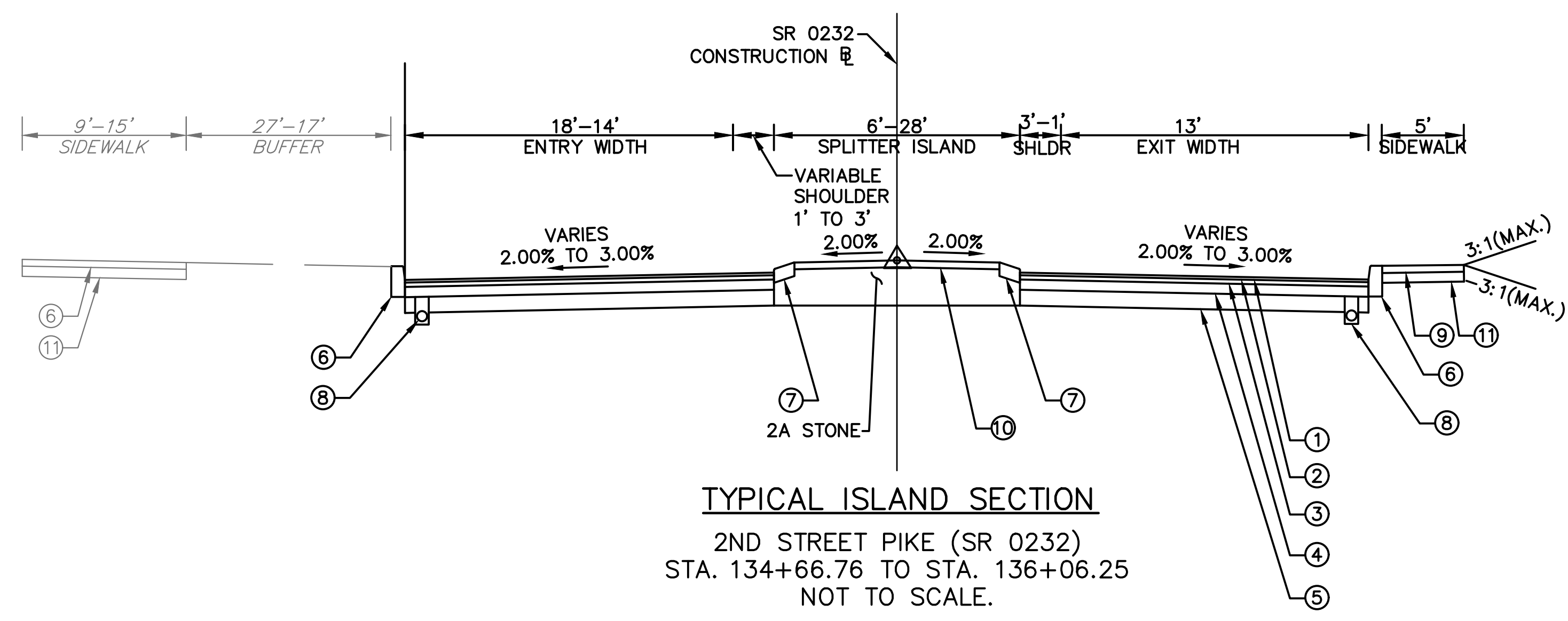
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	06 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



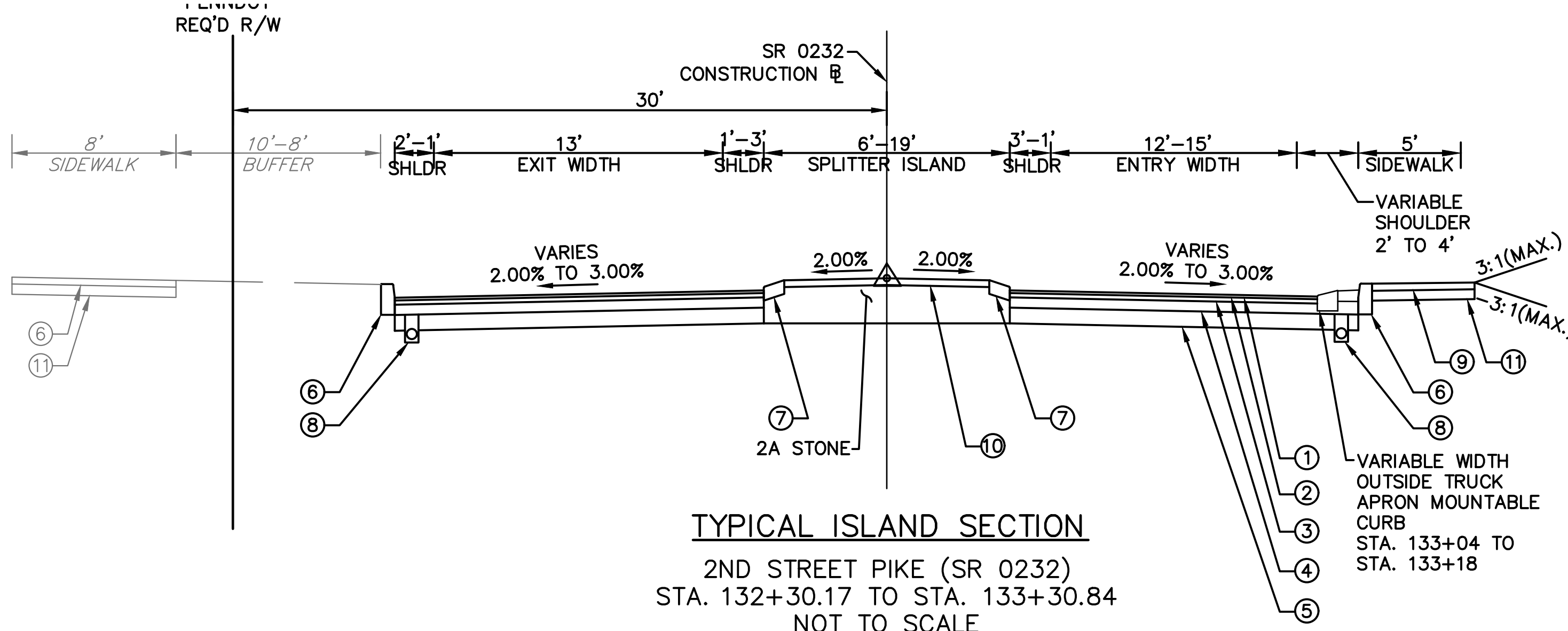
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	07 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

- LEGEND**
- ① SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 9.5 MM MIX, 1.5" DEPTH, SRL-E
 - ② BITUMINOUS TACK COAT
 - ③ SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 19.0 MM MIX, 2.5" DEPTH
 - ④ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX, 8" DEPTH
 - ⑤ SUBBASE (NO. 2A), 8" DEPTH
 - ⑥ PLAIN CEMENT CONCRETE CURB
 - ⑦ PLAIN CONCRETE MOUNTABLE CURB, TYPE A
 - ⑧ 6" PAVEMENT BASE DRAIN
 - ⑨ PLAIN CEMENT CONCRETE SIDEWALK, 4" DEPTH
 - ⑩ PLAIN CEMENT CONCRETE PAVEMENT, 4" DEPTH
 - ⑪ SUBBASE (NO. 2A), 6" DEPTH
 - ⑫ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX, 4" DEPTH
 - ⑬ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX, 5" DEPTH
 - ⑭ MILLING OF EXISTING BITUMINOUS PAVEMENT SURFACE, 1-1/2" DEPTH

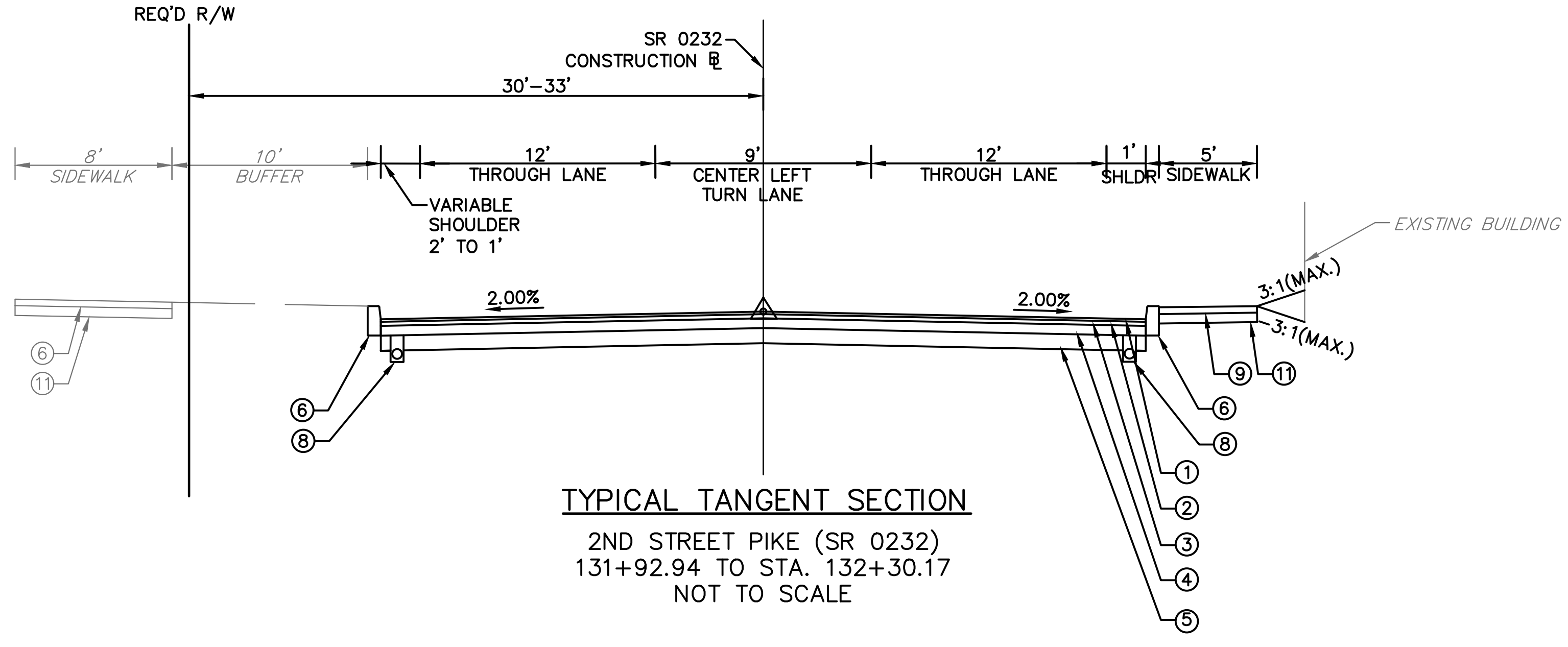
- CONSTRUCTION NOTES**
1. THE EXISTING PAVEMENT SECTION FOR S.R. 0232 AND S.R. 2065 WAS DETERMINED FROM PENNSYLVANIA DEPARTMENT OF TRANSPORTATION RMS DATA.
 2. THE PROPOSED PAVEMENT SECTION MUST BE AS INDICATED ON THE PLAN, OR MATCH THE EXISTING AS FOUND IN THE FIELD, WHICHEVER IS GREATER.
 3. NO UNSUITABLE MATERIAL IS TO BE USED IN ANY PORTION OF THE ROADWAY CONSTRUCTION. REMOVE ANY SUBGRADE THAT CANNOT BE PROPERLY COMPACTED AND TREAT AS UNSUITABLE MATERIAL. UNDERCUTTING AND/OR STABILIZATION MAY BE REQUIRED. THE SUBGRADE MUST BE APPROVED BY A PENNDOT REPRESENTATIVE PRIOR TO PLACEMENT OF THE SUBBASE.
 4. SAWLINE LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DEEMED NECESSARY BY A PENNDOT REPRESENTATIVE.
 5. ALL LONGITUDINAL JOINTS WILL BE SEALED WITH PG 64-22.
 6. SPLITTER ISLANDS AND TRUCK APRON TO HAVE STAMPED CONCRETE IN A PATTERN COORDINATED WITH NORTHAMPTON TOWNSHIP.



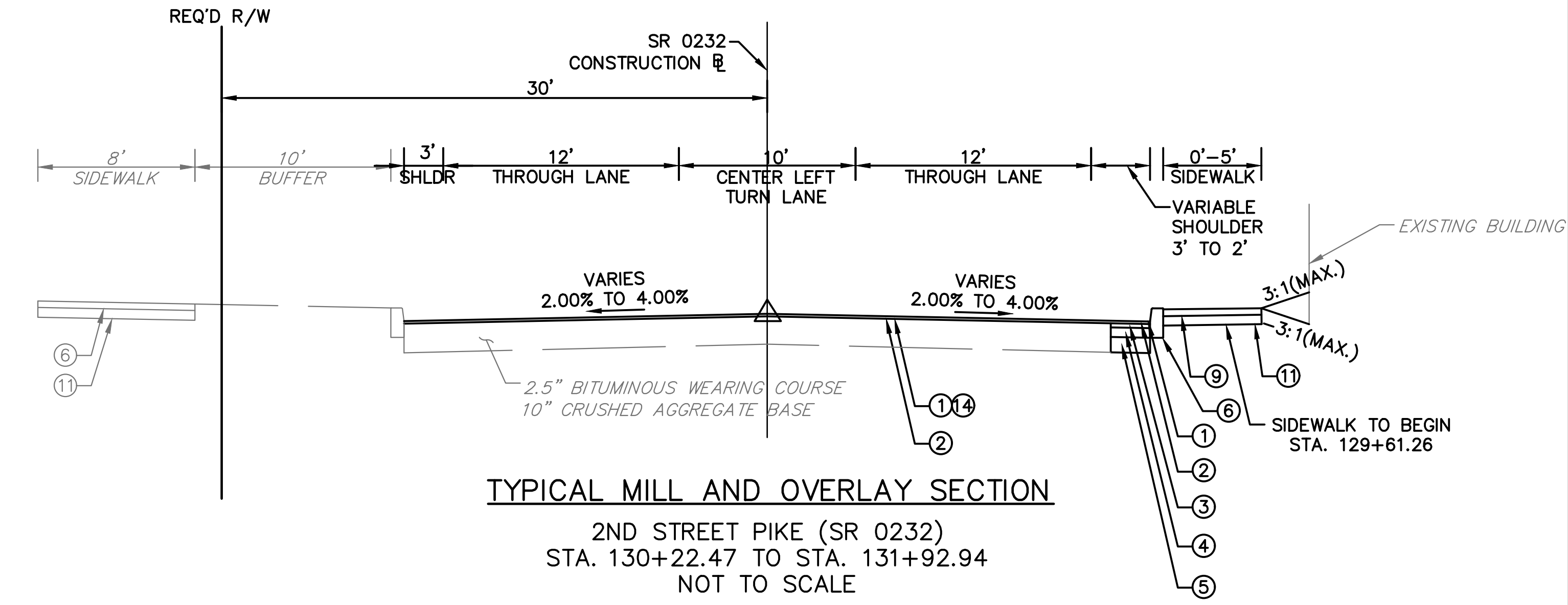
TYPICAL ISLAND SECTION
 2ND STREET PIKE (SR 0232)
 STA. 134+66.76 TO STA. 136+06.25
 NOT TO SCALE.



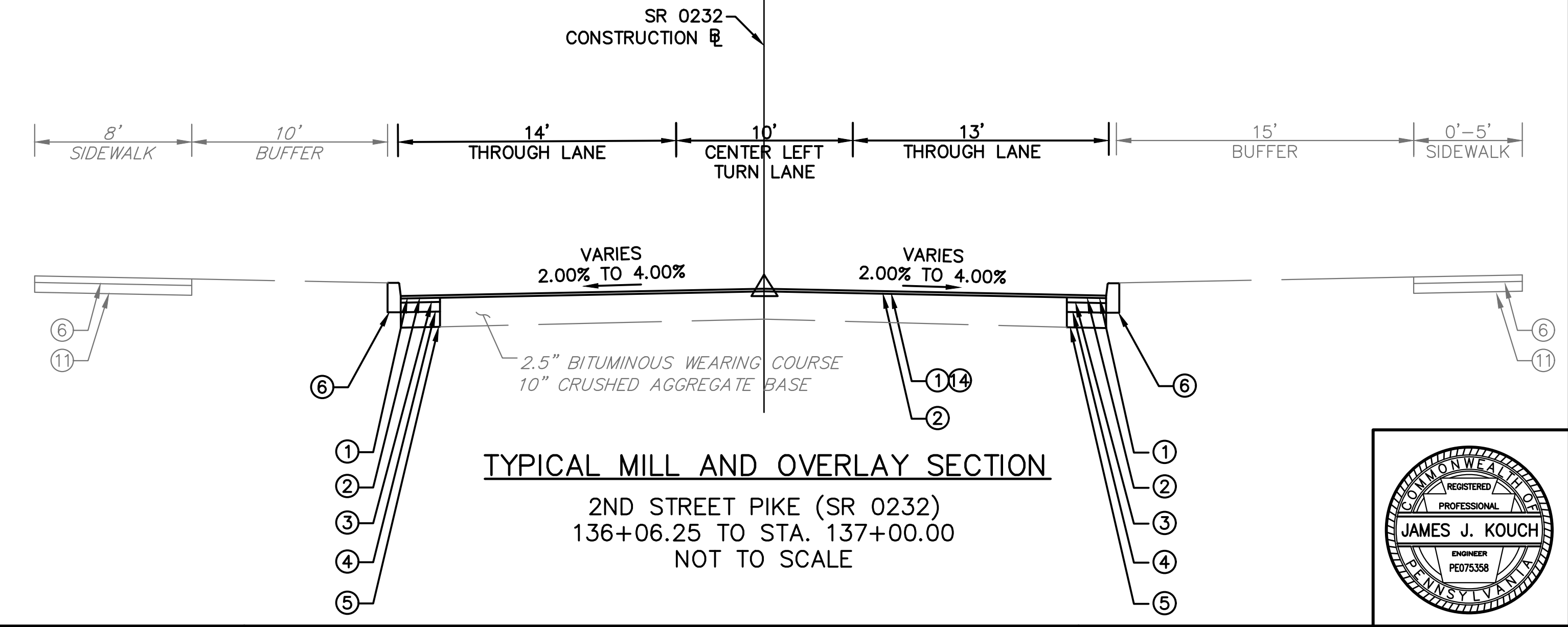
TYPICAL ISLAND SECTION
 2ND STREET PIKE (SR 0232)
 STA. 132+30.17 TO STA. 133+30.84
 NOT TO SCALE



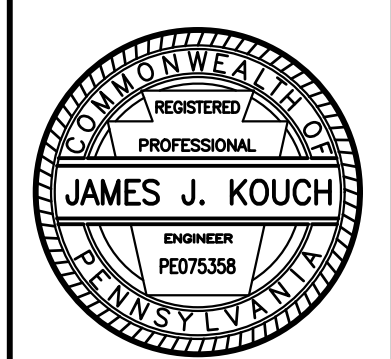
TYPICAL TANGENT SECTION
 2ND STREET PIKE (SR 0232)
 131+92.94 TO STA. 132+30.17
 NOT TO SCALE



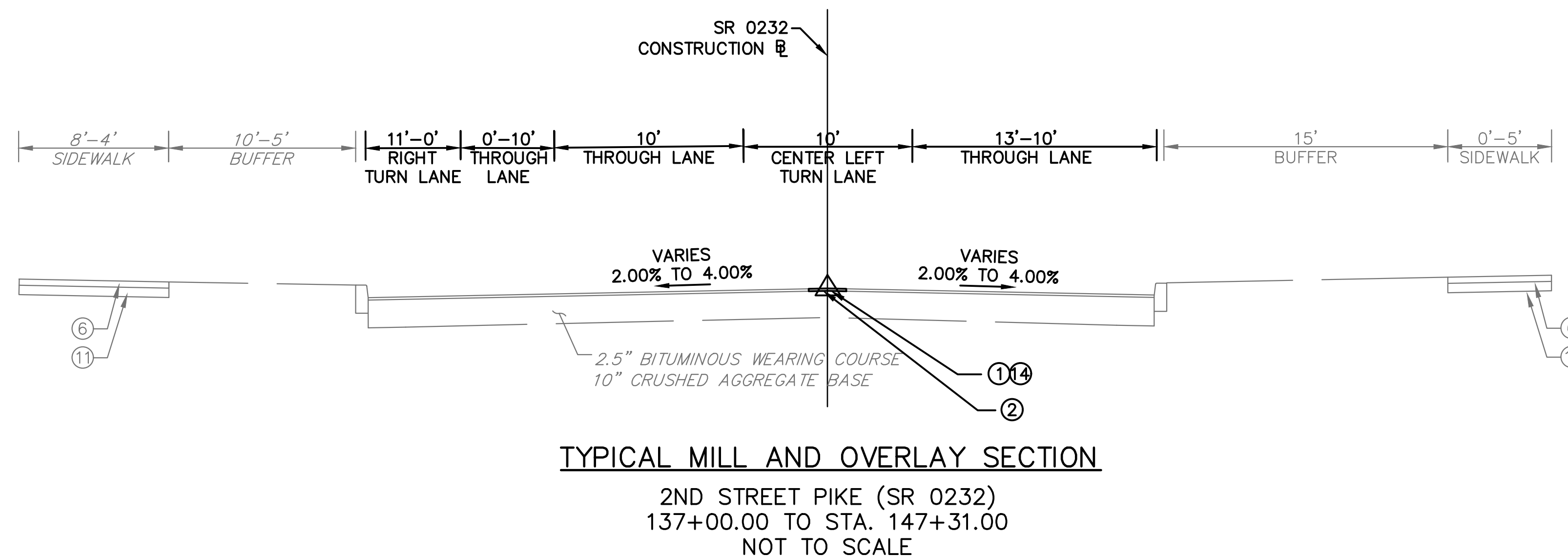
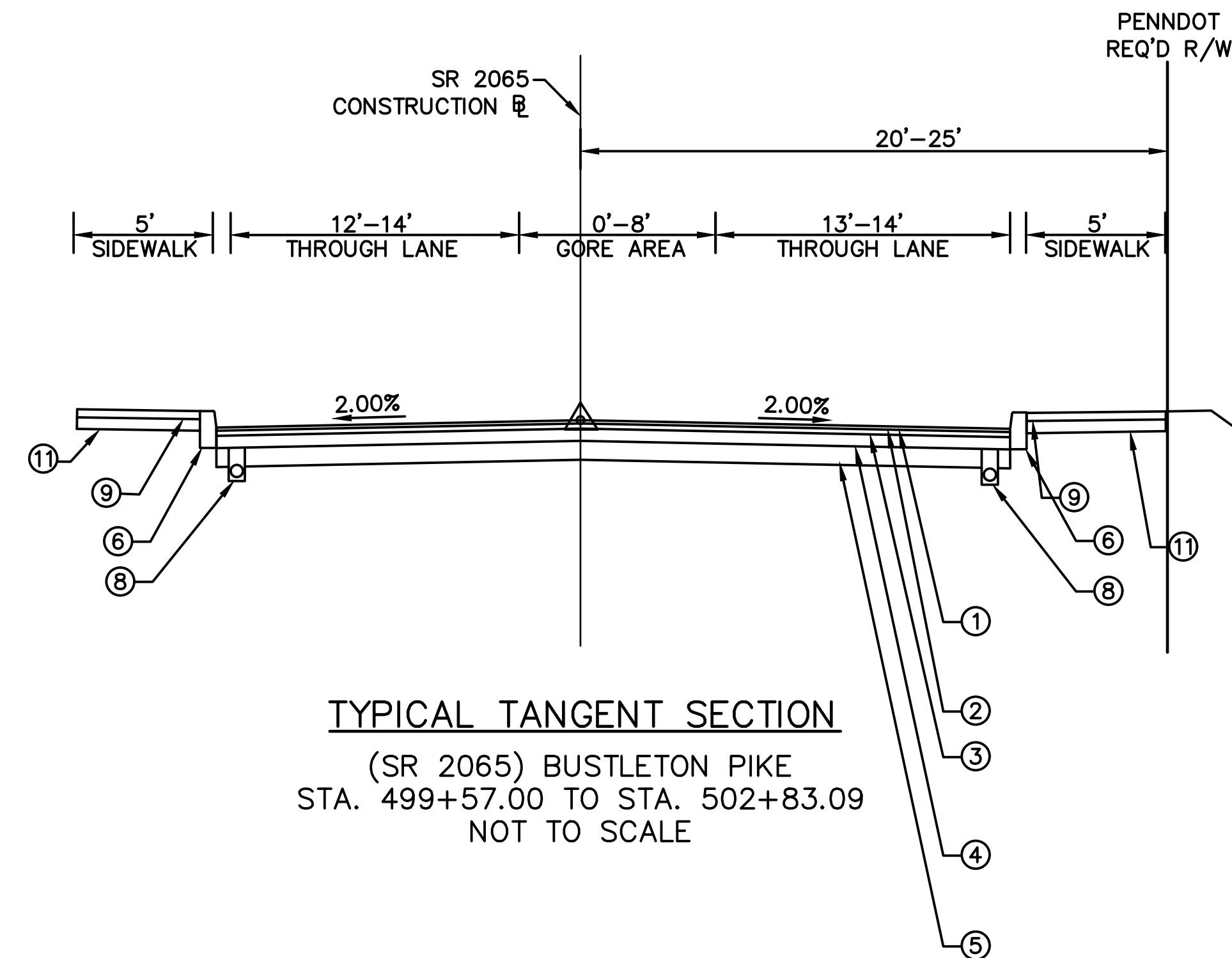
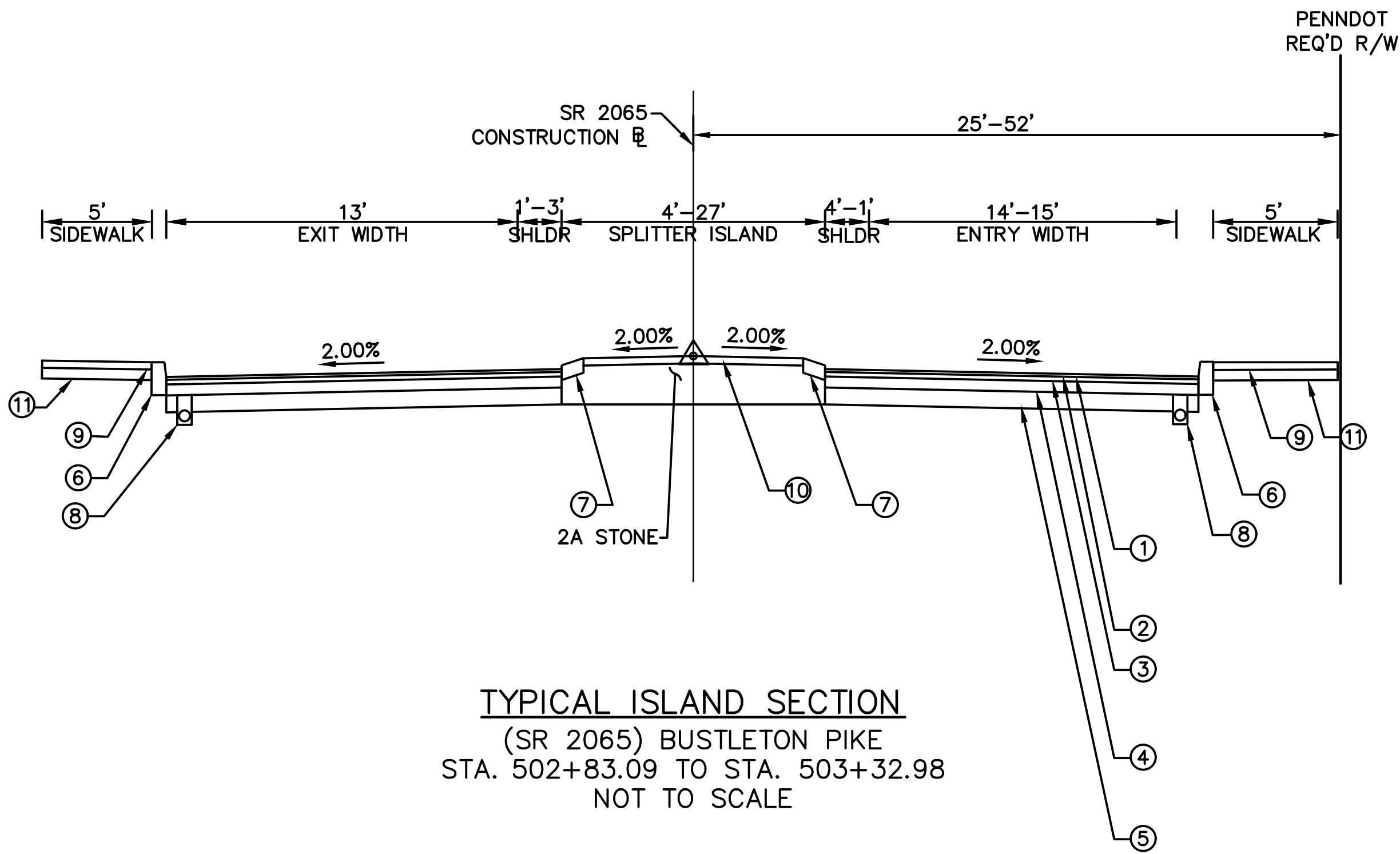
TYPICAL MILL AND OVERLAY SECTION
 2ND STREET PIKE (SR 0232)
 STA. 130+22.47 TO STA. 131+92.94
 NOT TO SCALE



TYPICAL MILL AND OVERLAY SECTION
 2ND STREET PIKE (SR 0232)
 136+06.25 TO STA. 137+00.00
 NOT TO SCALE



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	08 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

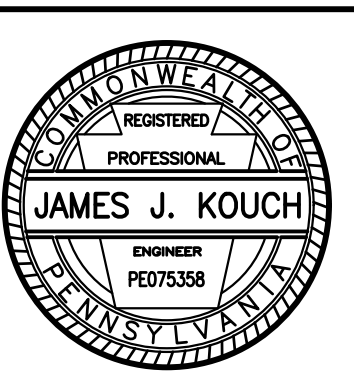


LEGEND

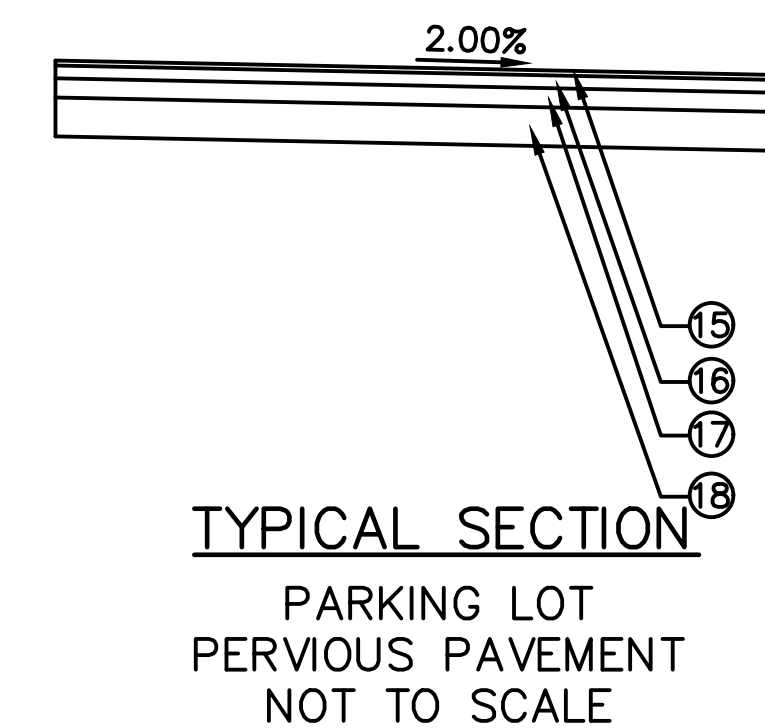
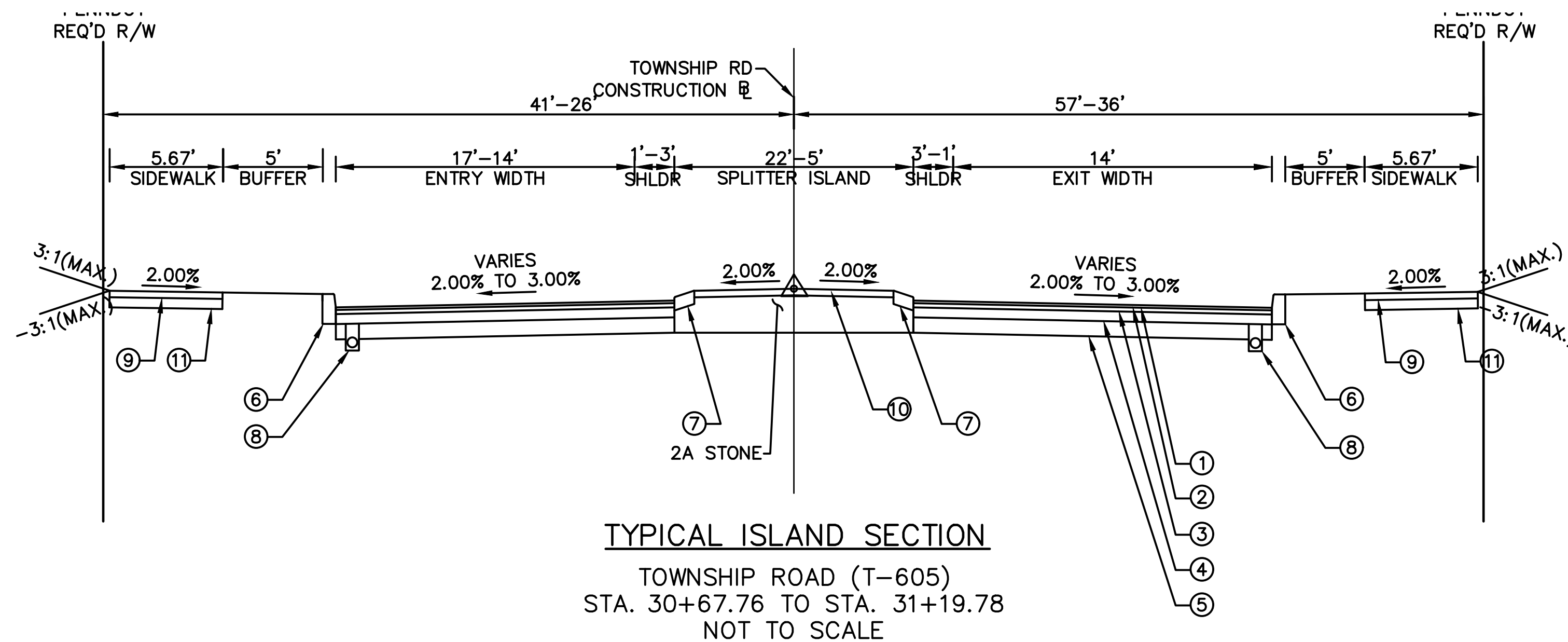
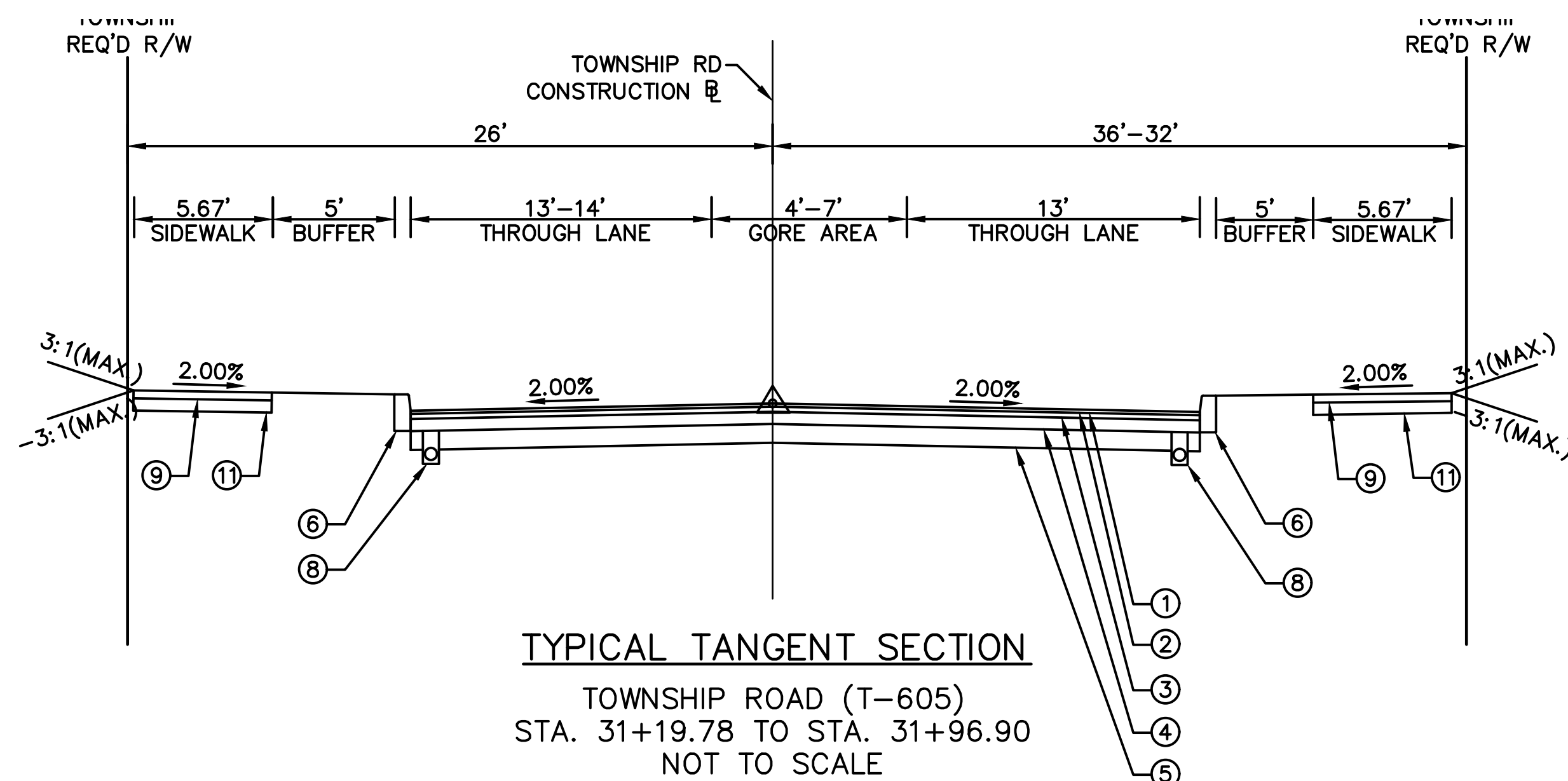
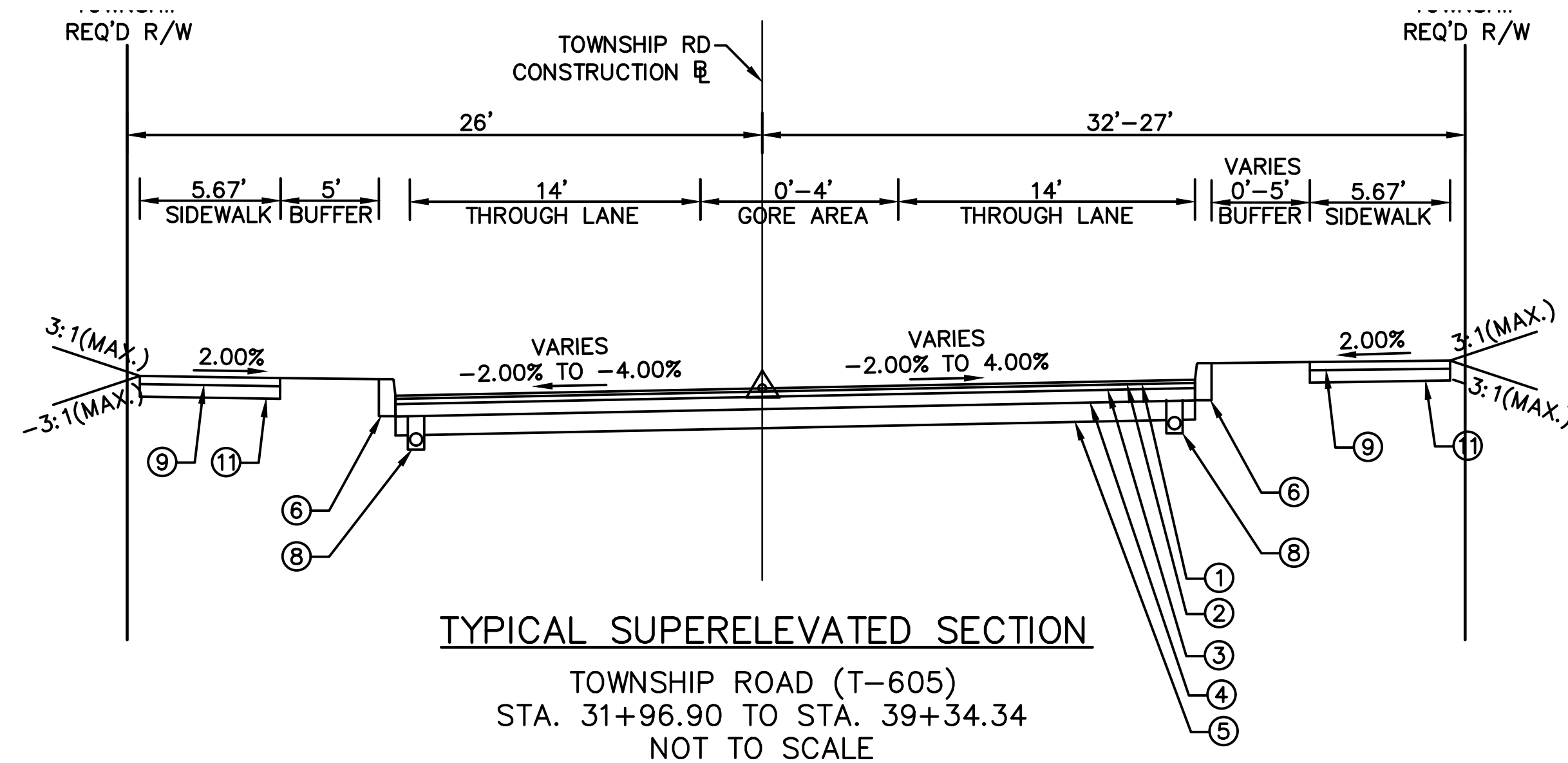
- ① SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 9.5 MM MIX, 1.5" DEPTH, SRL-E
- ② BITUMINOUS TACK COAT
- ③ SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 19.0 MM MIX, 2.5" DEPTH
- ④ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64s-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX, 8" DEPTH
- ⑤ SUBBASE (NO. 2A), 8" DEPTH
- ⑥ PLAIN CEMENT CONCRETE CURB
- ⑦ PLAIN CONCRETE MOUNTABLE CURB, TYPE A
- ⑧ 6" PAVEMENT BASE DRAIN
- ⑨ PLAIN CEMENT CONCRETE SIDEWALK, 4" DEPTH
- ⑩ PLAIN CEMENT CONCRETE PAVEMENT, 4" DEPTH
- ⑪ SUBBASE (NO. 2A), 6" DEPTH
- ⑫ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64s-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX, 4" DEPTH
- ⑬ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64s-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX, 5" DEPTH
- ⑭ MILLING OF EXISTING BITUMINOUS PAVEMENT SURFACE, 1-1/2" DEPTH
- ⑮ PERVIOUS 9.5 MM WEARING COURSE, 1 1/2" DEPTH
- ⑯ PERVIOUS 19.0 MM BINDER COURSE, 2 1/2" DEPTH
- ⑰ NO. 57 COARSE AGGREGATE, 6" DEPTH
- ⑱ NO. 3 COARSE AGGREGATE, VARIABLE DEPTH

CONSTRUCTION NOTES

- 1. THE EXISTING PAVEMENT SECTION FOR S.R. 0232 AND S.R. 2065 WAS DETERMINED FROM PENNSYLVANIA DEPARTMENT OF TRANSPORTATION RMS DATA.
- 2. THE PROPOSED PAVEMENT SECTION MUST BE AS INDICATED ON THE PLAN, OR MATCH THE EXISTING AS FOUND IN THE FIELD, WHICHEVER IS GREATER.
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- 4. SAWLINE LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DEEMED NECESSARY BY A PENNDOT REPRESENTATIVE.
- 5. ALL LONGITUDINAL JOINTS WILL BE SEALED WITH PG 64-22.
- 6. SPLITTER ISLANDS, OUTSIDE TRUCK APRON, AND TRUCK APRON TO HAVE STAMPED CONCRETE IN A PATTERN COORDINATED WITH NORTHAMPTON TOWNSHIP. (SEE DETAILS).



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	09 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



LEGEND

- ① SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 9.5 MM MIX, 1.5" DEPTH, SRL-E
- ② BITUMINOUS TACK COAT
- ③ SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 19.0 MM MIX, 2.5" DEPTH
- ④ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX, 8" DEPTH
- ⑤ SUBBASE (NO. 2A), 8" DEPTH
- ⑥ PLAIN CEMENT CONCRETE CURB
- ⑦ PLAIN CONCRETE MOUNTABLE CURB, TYPE A
- ⑧ 6" PAVEMENT BASE DRAIN
- ⑨ PLAIN CEMENT CONCRETE SIDEWALK, 4" DEPTH
- ⑩ PLAIN CEMENT CONCRETE PAVEMENT, 4" DEPTH
- ⑪ SUBBASE (NO. 2A), 6" DEPTH
- ⑫ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX, 4" DEPTH
- ⑬ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX, 5" DEPTH
- ⑭ MILLING OF EXISTING BITUMINOUS PAVEMENT SURFACE, 1-1/2" DEPTH
- ⑮ PERVIOUS 9.5 MM WEARING COURSE, 1 1/2" DEPTH
- ⑯ PERVIOUS 19.0 MM BINDER COURSE, 2 1/2" DEPTH
- ⑰ NO. 57 COARSE AGGREGATE, 6" DEPTH
- ⑱ NO. 3 COARSE AGGREGATE, VARIABLE DEPTH

CONSTRUCTION NOTES

- 1. THE EXISTING PAVEMENT SECTION FOR S.R. 0232 AND S.R. 2065 WAS DETERMINED FROM PENNSYLVANIA DEPARTMENT OF TRANSPORTATION RMS DATA.
- 2. THE PROPOSED PAVEMENT SECTION MUST BE AS INDICATED ON THE PLAN, OR MATCH THE EXISTING AS FOUND IN THE FIELD, WHICHEVER IS GREATER.
- 3. NO UNSUITABLE MATERIAL IS TO BE USED IN ANY PORTION OF THE ROADWAY CONSTRUCTION. REMOVE ANY SUBGRADE THAT CANNOT BE PROPERLY COMPACTED AND TREAT AS UNSUITABLE MATERIAL. UNDERCUTTING AND/OR STABILIZATION MAY BE REQUIRED. THE SUBGRADE MUST BE APPROVED BY A PENNDOT REPRESENTATIVE PRIOR TO PLACEMENT OF THE SUBBASE.
- 4. SAWLINE LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DEEMED NECESSARY BY A PENNDOT REPRESENTATIVE.
- 5. ALL LONGITUDINAL JOINTS WILL BE SEALED WITH PG 64-22.
- 6. SPLITTER ISLANDS, OUTSIDE TRUCK APRON, AND TRUCK APRON TO HAVE STAMPED CONCRETE IN A PATTERN COORDINATED WITH NORTHAMPTON TOWNSHIP. (SEE DETAILS).



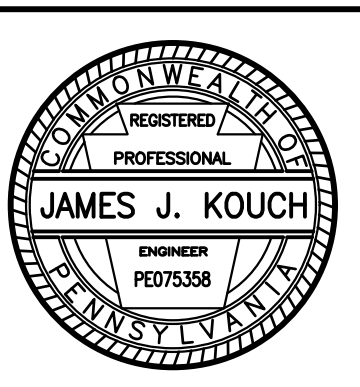
425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506TYP01
DATE: 5/16/18

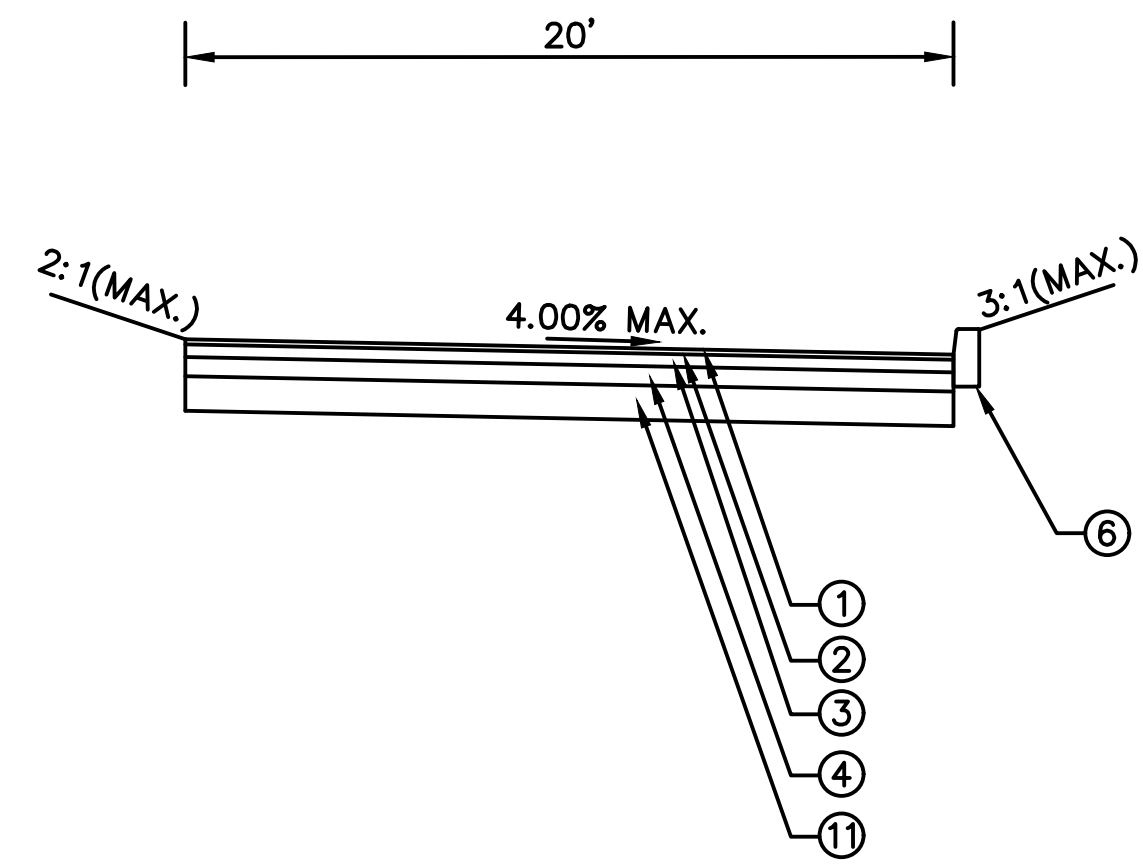
NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

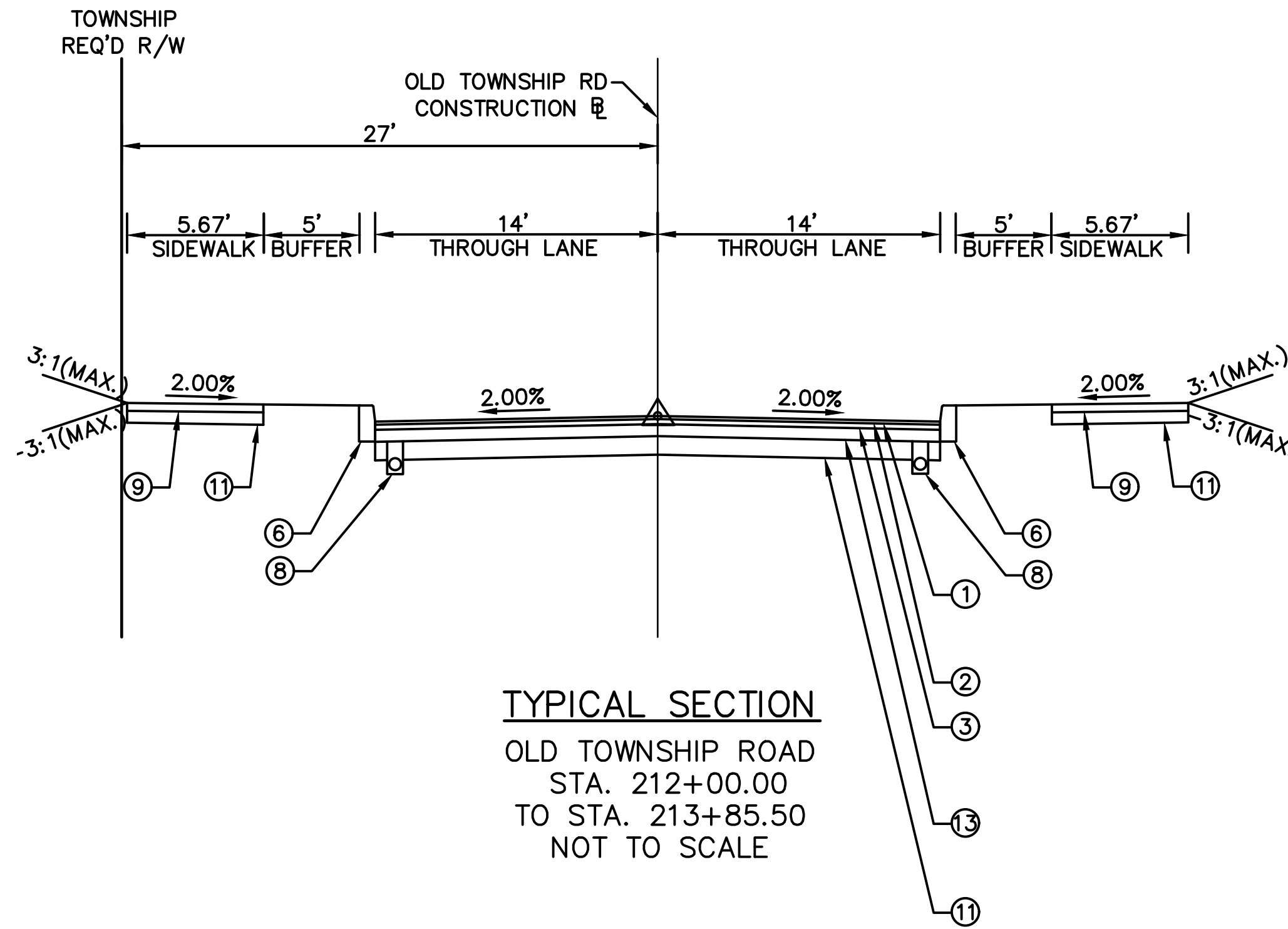
TYPICAL SECTIONS



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	10 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



TYPICAL SECTION
DRIVEWAY CONNECTION
AND PARKING LOT
NOT TO SCALE



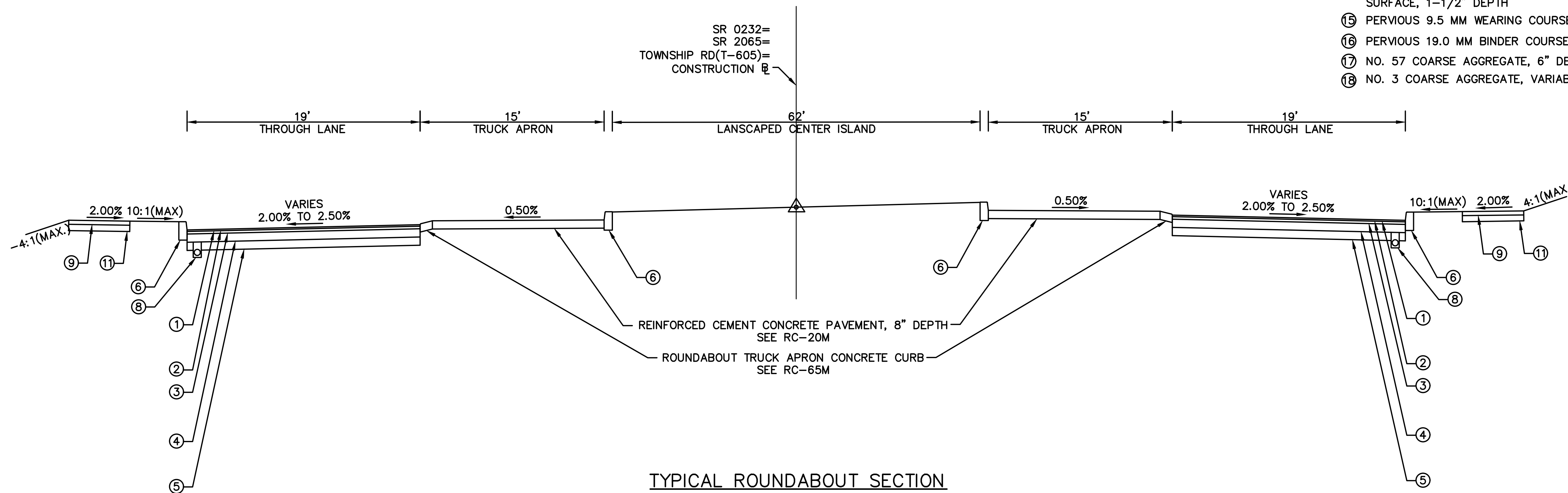
TYPICAL SECTION
OLD TOWNSHIP ROAD
STA. 212+00.00
TO STA. 213+85.50
NOT TO SCALE

LEGEND

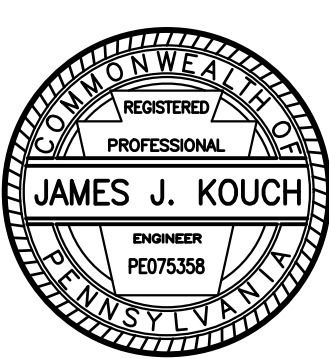
- ① SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 9.5 MM MIX, 1.5" DEPTH, SRL-E
- ② BITUMINOUS TACK COAT
- ③ SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 19.0 MM MIX, 2.5" DEPTH
- ④ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX, 8" DEPTH
- ⑤ SUBBASE (NO. 2A), 8" DEPTH
- ⑥ PLAIN CEMENT CONCRETE CURB
- ⑦ PLAIN CONCRETE MOUNTABLE CURB, TYPE A
- ⑧ 6" PAVEMENT BASE DRAIN
- ⑨ PLAIN CEMENT CONCRETE SIDEWALK, 4" DEPTH
- ⑩ PLAIN CEMENT CONCRETE PAVEMENT, 4" DEPTH
- ⑪ SUBBASE (NO. 2A), 6" DEPTH
- ⑫ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX, 4" DEPTH
- ⑬ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX, 5" DEPTH
- ⑭ MILLING OF EXISTING BITUMINOUS PAVEMENT SURFACE, 1-1/2" DEPTH
- ⑮ PERVIOUS 9.5 MM WEARING COURSE, 1 1/2" DEPTH
- ⑯ PERVIOUS 19.0 MM BINDER COURSE, 2 1/2" DEPTH
- ⑰ NO. 57 COARSE AGGREGATE, 6" DEPTH
- ⑱ NO. 3 COARSE AGGREGATE, VARIABLE DEPTH

CONSTRUCTION NOTES

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TYPICAL ROUNDABOUT SECTION
(SR 0232) 2ND STREET PIKE
(SR 2065) BUSTLETON PIKE
TOWNSHIP RD (T-605)
NOT TO SCALE



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	11 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

POINT	TYPE	STATION	OFFSET
1	PC	134+65.18	12.13' LT
2	PRC	134+66.56	13.31' LT
3	PRC	134.98.43	3.99' LT
4	PT	135+39.03	1.25' LT
5	PC	135+60.40	1.95' LT
6	PT	135+60.39	3.15' RT
7	PC	135+50.37	3.21' RT
8	PCC	134+97.38	8.42' RT
9	PRC	134+70.48	14.36' RT
10	PRC	134+66.86	11.10' RT

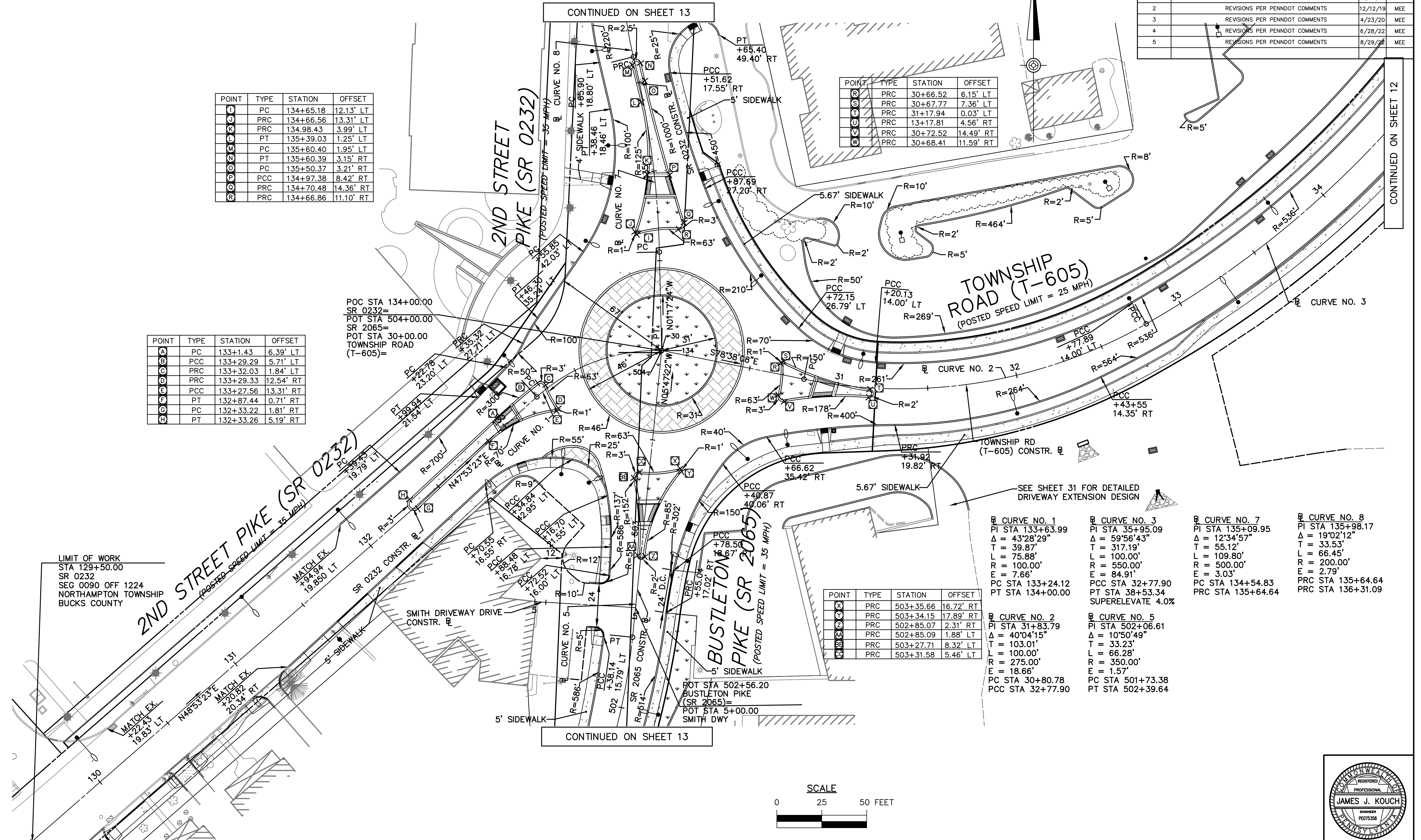
POINT	TYPE	STATION	OFFSET
A	PC	133+1.43	6.39' LT
B	PCC	133+29.29	5.71' LT
C	PRC	133+32.03	1.84' LT
D	PRC	133+29.33	12.54' RT
E	PCC	133+27.56	13.31' RT
F	PT	132+87.44	0.71' RT
G	PC	132+33.22	1.81' RT
H	PT	132+33.26	5.19' RT

POINT	TYPE	STATION	OFFSET
R	PRC	30+66.52	6.15' LT
S	PRC	30+67.77	7.36' LT
T	PRC	31+17.94	0.03' LT
U	PRC	13+17.81	4.56' RT
V	PRC	30+72.52	14.49' RT
W	PRC	30+68.41	11.59' RT

POINT	TYPE	STATION	OFFSET
X	PRC	503+35.66	16.72' RT
Y	PRC	503+34.15	17.89' RT
Z	PRC	502+85.07	2.31' RT
AA	PRC	502+85.09	1.88' LT
AB	PRC	503+27.71	8.32' LT
AC	PRC	503+31.58	5.46' LT

CURVE NO. 1 PI STA 133+63.99 $\Delta = 43^{\circ}28'29''$ $T = 39.87'$ $L = 75.88'$ $R = 100.00'$ $E = 7.66'$ PC STA 133+24.12 PT STA 134+00.00	CURVE NO. 3 PI STA 35+95.09 $\Delta = 59^{\circ}56'43''$ $T = 317.19'$ $L = 100.00'$ $R = 550.00'$ $E = 84.91'$ PCC STA 32+77.90 PT STA 38+53.34 SUPERELEVATE 4.0%	CURVE NO. 7 PI STA 135+09.95 $\Delta = 12^{\circ}34'57''$ $T = 55.12'$ $L = 109.80'$ $R = 500.00'$ $E = 3.03'$ PC STA 134+54.83 PRC STA 135+64.64	CURVE NO. 8 PI STA 135+98.17 $\Delta = 19^{\circ}02'12''$ $T = 33.53'$ $L = 66.45'$ $R = 200.00'$ $E = 2.79'$ PRC STA 135+64.64 PRC STA 136+31.09
CURVE NO. 2 PI STA 31+83.79 $\Delta = 40^{\circ}04'15''$ $T = 103.01'$ $L = 100.00'$ $R = 275.00'$ $E = 18.66'$ PC STA 30+80.78 PCC STA 32+77.90	CURVE NO. 5 PI STA 502+06.61 $\Delta = 10^{\circ}50'49''$ $T = 33.23'$ $L = 66.28'$ $R = 350.00'$ $E = 1.57'$ PC STA 501+73.38 PT STA 502+39.64		

LIMIT OF WORK
 STA 129+50.00
 SR 0232
 SEG 0090 OFF 1224
 NORTHAMPTON TOWNSHIP
 BUCKS COUNTY



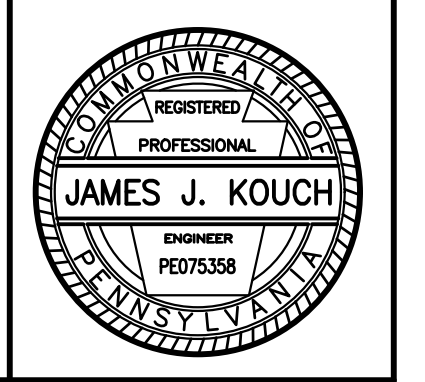
425 COMMERCE DRIVE
 SUITE 200
 FORT WASHINGTON, PA 19034
 PH: (215) 283-9444
 FAX: (215) 283-9447

DESIGN BY: KLY
 DRAWN BY: KLY
 CHECKED BY: BDD
 JOB NO: 816506.2A
 DWG: 506GE001
 DATE: 5/16/18

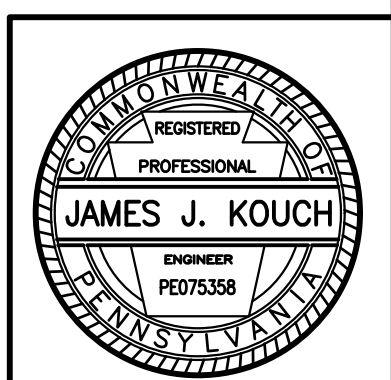
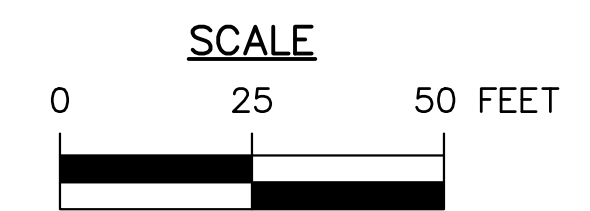
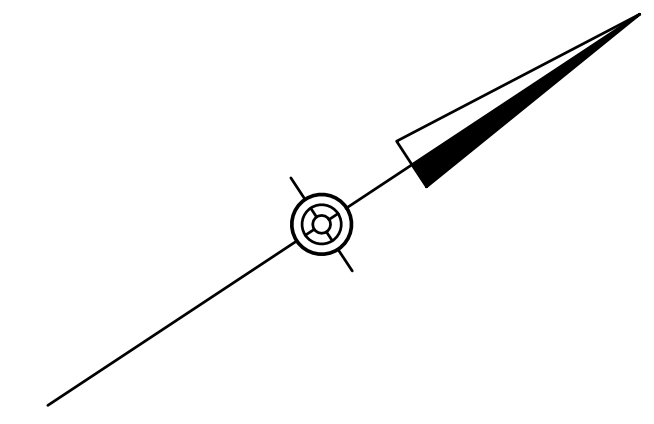
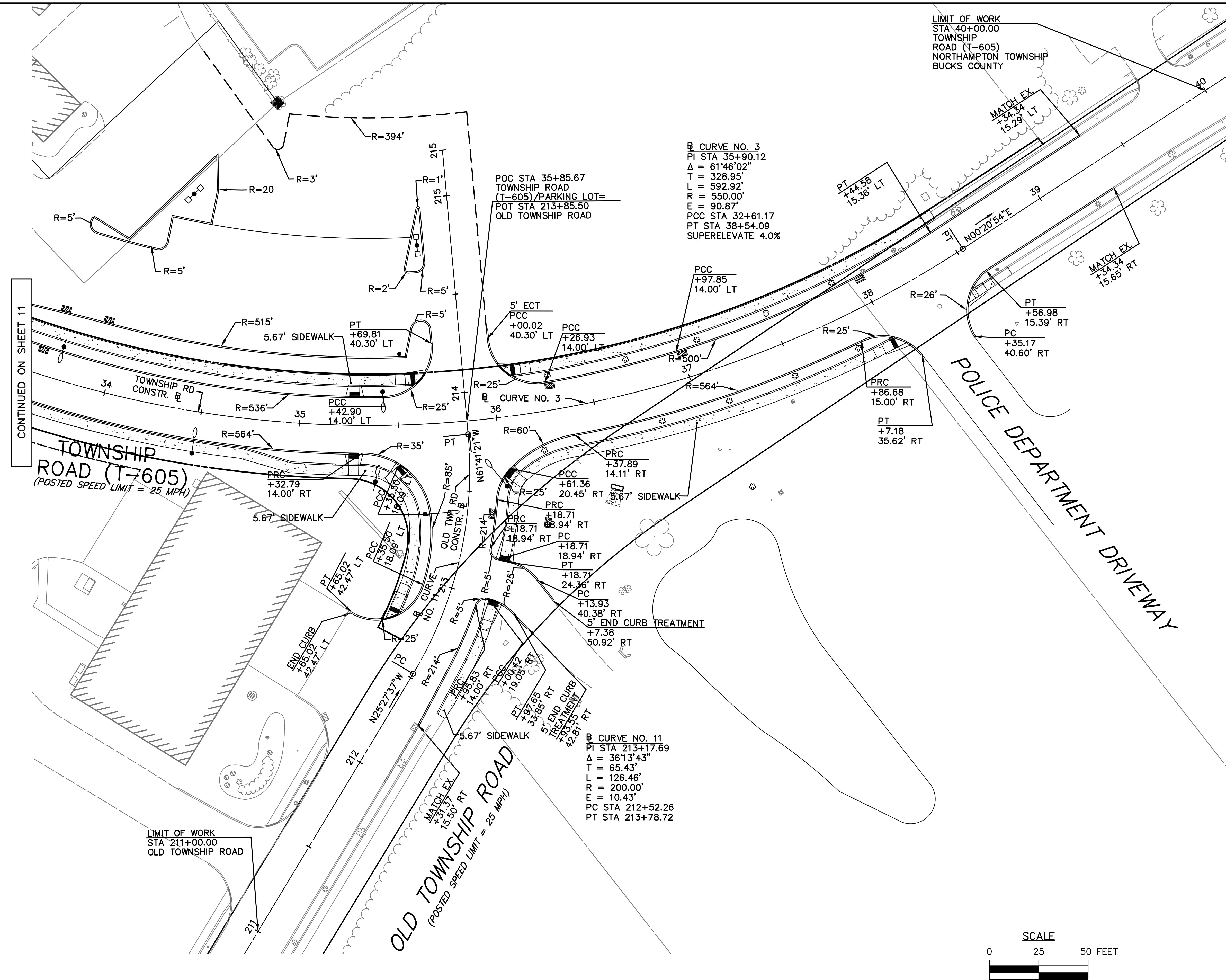
NORTHAMPTON TOWNSHIP
 55 TOWNSHIP RD
 RICHBORO, PA 18954
 (215) 357-6800

RICHBORO ROUNDABOUT
 2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
 NORTHAMPTON TOWNSHIP
 BUCKS COUNTY

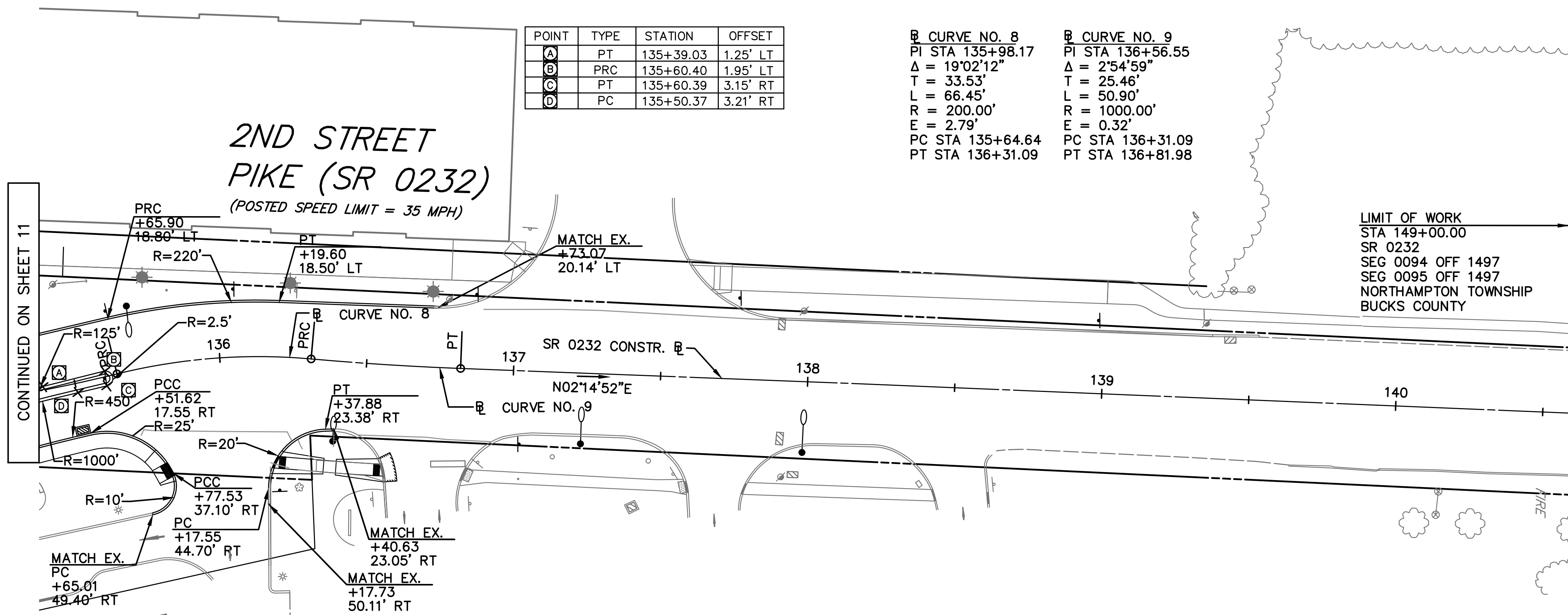
GEOMETRY PLAN



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	12 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



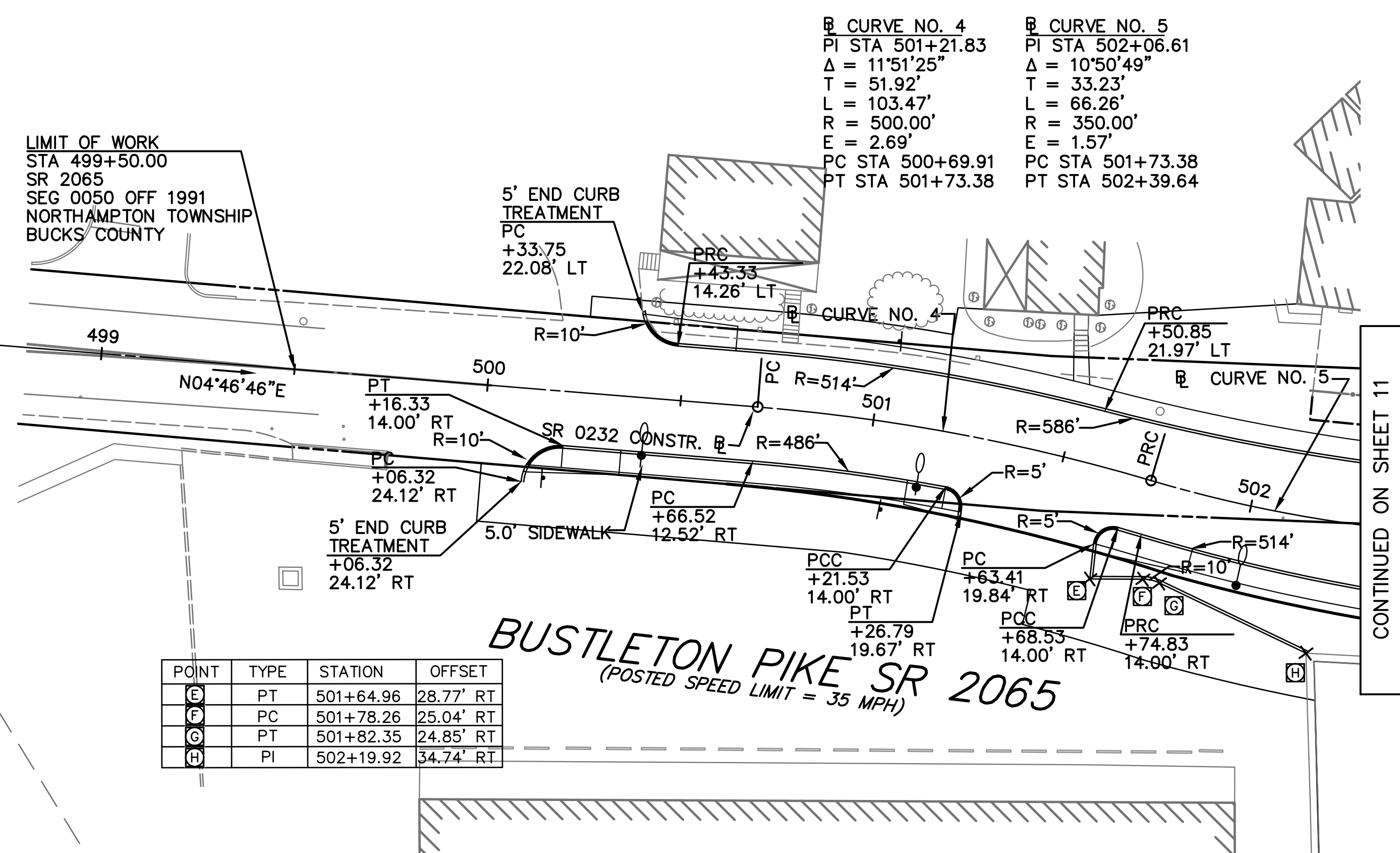
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	13 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



POINT	TYPE	STATION	OFFSET
A	PT	135+39.03	1.25' LT
B	PRC	135+60.40	1.95' LT
C	PT	135+60.39	3.15' RT
D	PC	135+50.37	3.21' RT

CURVE NO. 8
 PI STA 135+98.17
 $\Delta = 19^{\circ}02'12''$
 T = 33.53'
 L = 66.45'
 R = 200.00'
 E = 2.79'
 PC STA 135+64.64
 PT STA 136+31.09

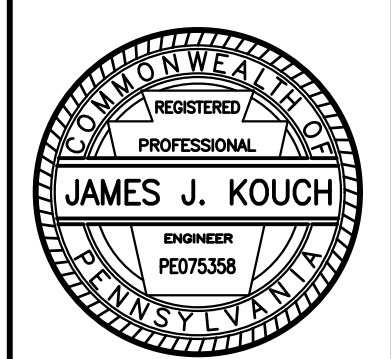
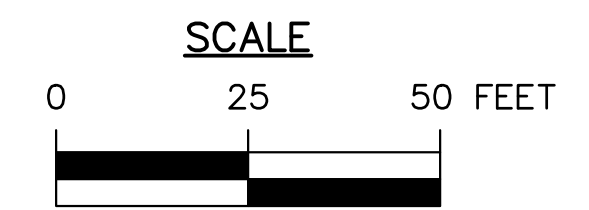
CURVE NO. 9
 PI STA 136+56.55
 $\Delta = 2^{\circ}54'59''$
 T = 25.46'
 L = 50.90'
 R = 1000.00'
 E = 0.32'
 PC STA 136+31.09
 PT STA 136+81.98



CURVE NO. 4
 PI STA 501+21.83
 $\Delta = 11^{\circ}51'25''$
 T = 51.92'
 L = 103.47'
 R = 500.00'
 E = 2.69'
 PC STA 500+69.91
 PT STA 501+73.38

CURVE NO. 5
 PI STA 502+06.61
 $\Delta = 10^{\circ}50'49''$
 T = 33.23'
 L = 66.26'
 R = 350.00'
 E = 1.57'
 PC STA 501+73.38
 PT STA 502+39.64

POINT	TYPE	STATION	OFFSET
E	PT	501+64.96	28.77' RT
F	PC	501+78.26	25.04' RT
G	PT	501+82.35	24.85' RT
H	PI	502+19.92	34.74' RT



425 COMMERCE DRIVE
 SUITE 200
 FORT WASHINGTON, PA 19034
 PH: (215) 283-9444
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DESIGN BY: KLY
 DRAWN BY: KLY
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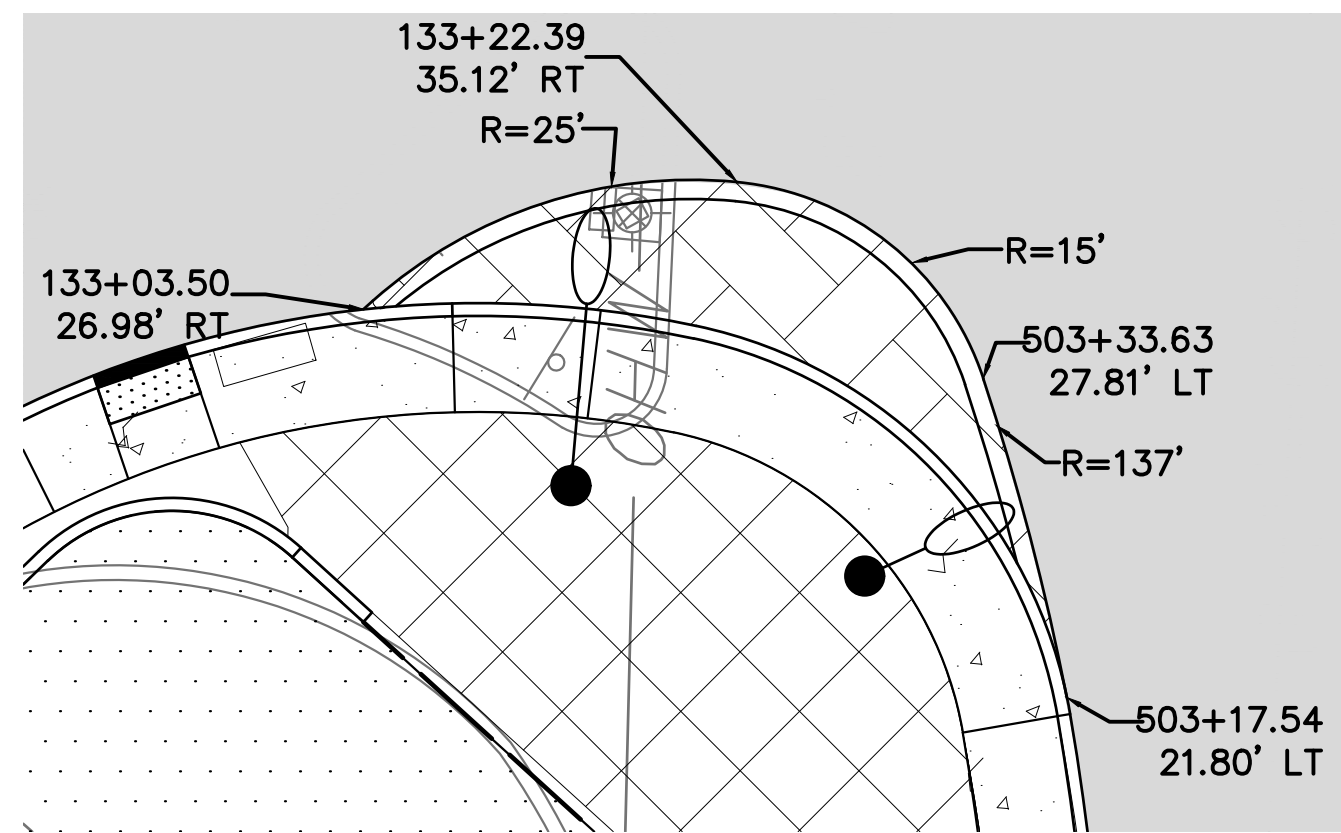
JOB NO: 816506.2A
 DWG: 506GE003
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NORTHAMPTON TOWNSHIP
 55 TOWNSHIP RD
 RICHBORO, PA 18954
 (215) 357-6800

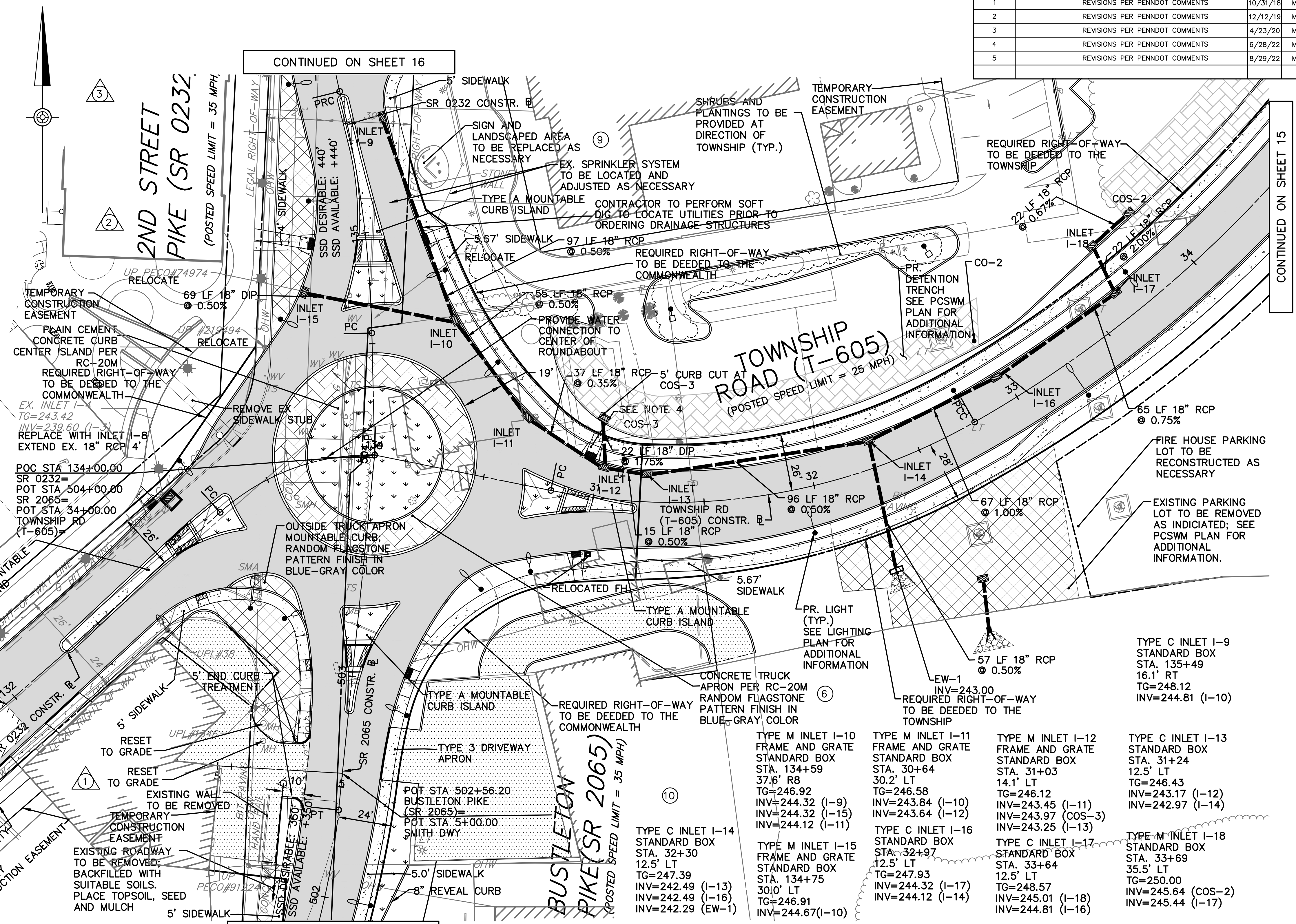
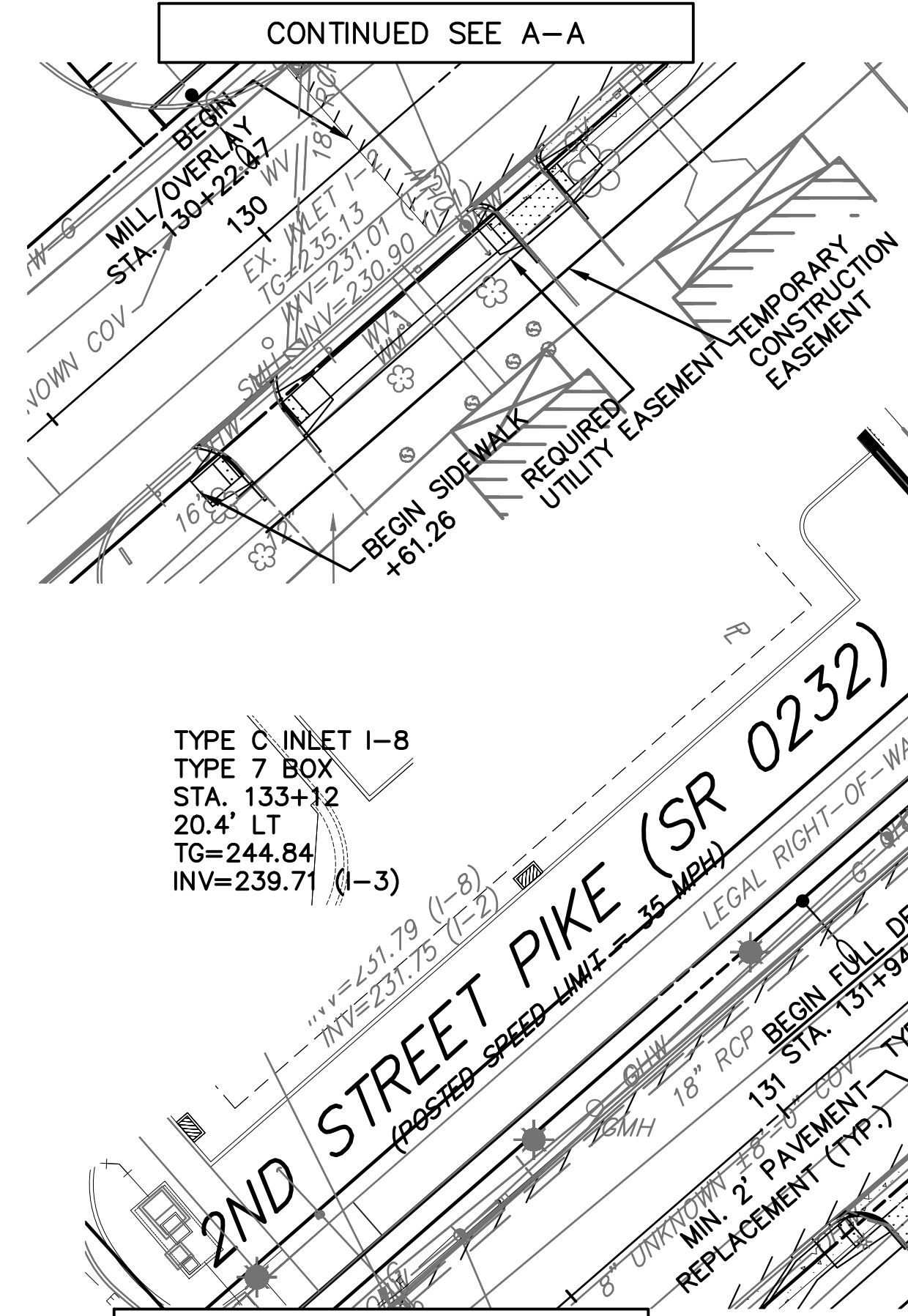
RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
 NORTHAMPTON TOWNSHIP
 BUCKS COUNTY

GEOMETRY PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	14 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



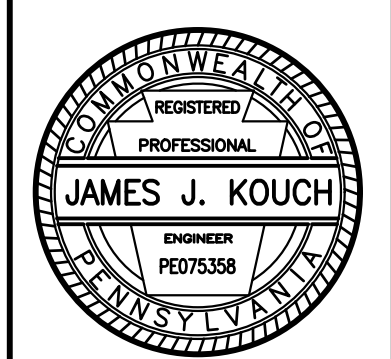
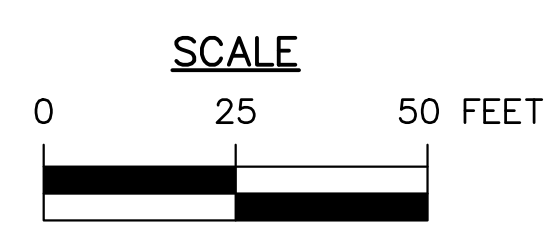
- GENERAL NOTES:**
1. RESET EXISTING INLET TOP UNITS TO GRADE, AS NECESSARY
 2. RESET ALL UTILITY VALVES, COVERS AND MANHOLES TO GRADE, AS NECESSARY.
 3. FOR DETAILED CURB RAMP DESIGNS REFER TO THE CURB RAMP PLANS INCLUDED IN THIS PLAN SET.
 4. CONSTRUCT CURB RAMPS PER ADA PLANS.
 5. SPLITTER ISLANDS AND TRUCK APRON TO HAVE STAMPED CONCRETE IN A PATTERN COORDINATED WITH NORTHAMPTON TOWNSHIP.
 6. CONTRACTOR TO PERFORM SOFT DIG TO LOCATION UTILITIES PRIOR TO ORDERING DRAINAGE STRUCTURES.



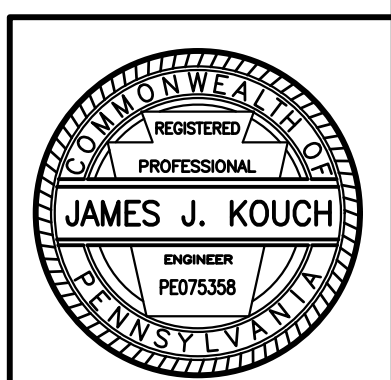
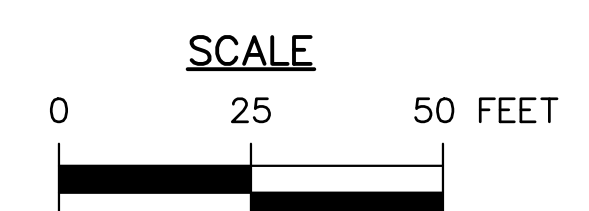
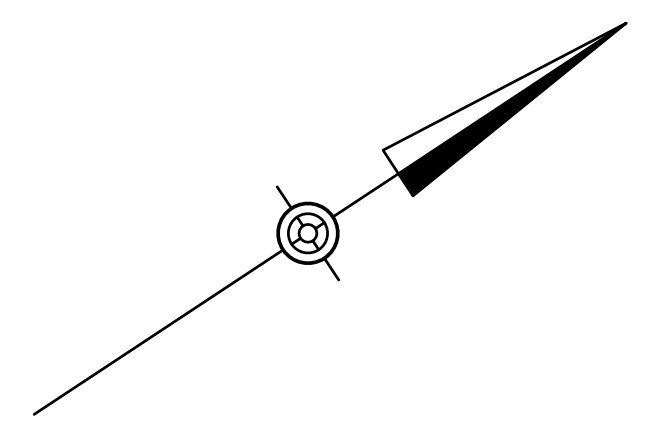
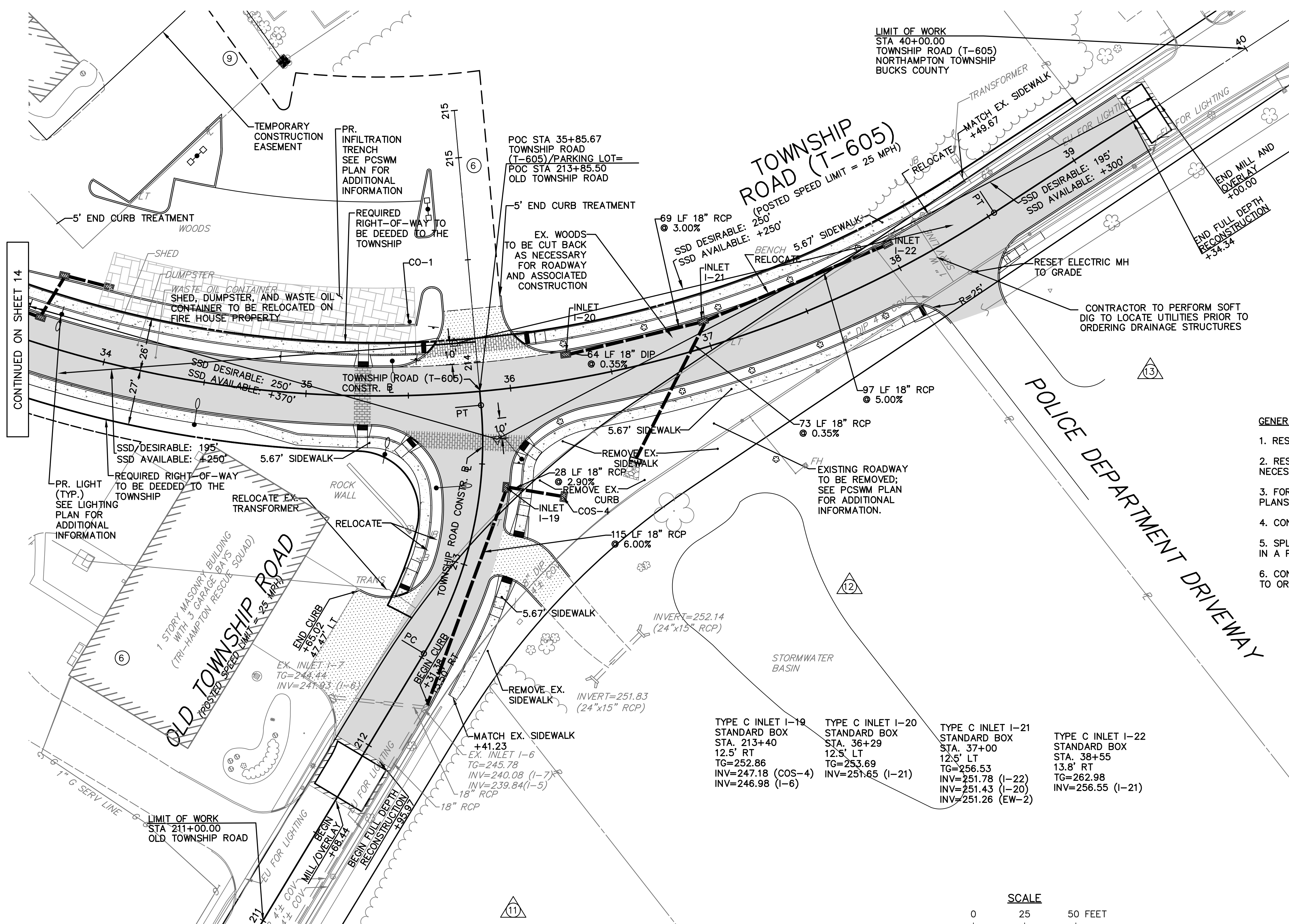
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CONTINUED ON SHEET 16

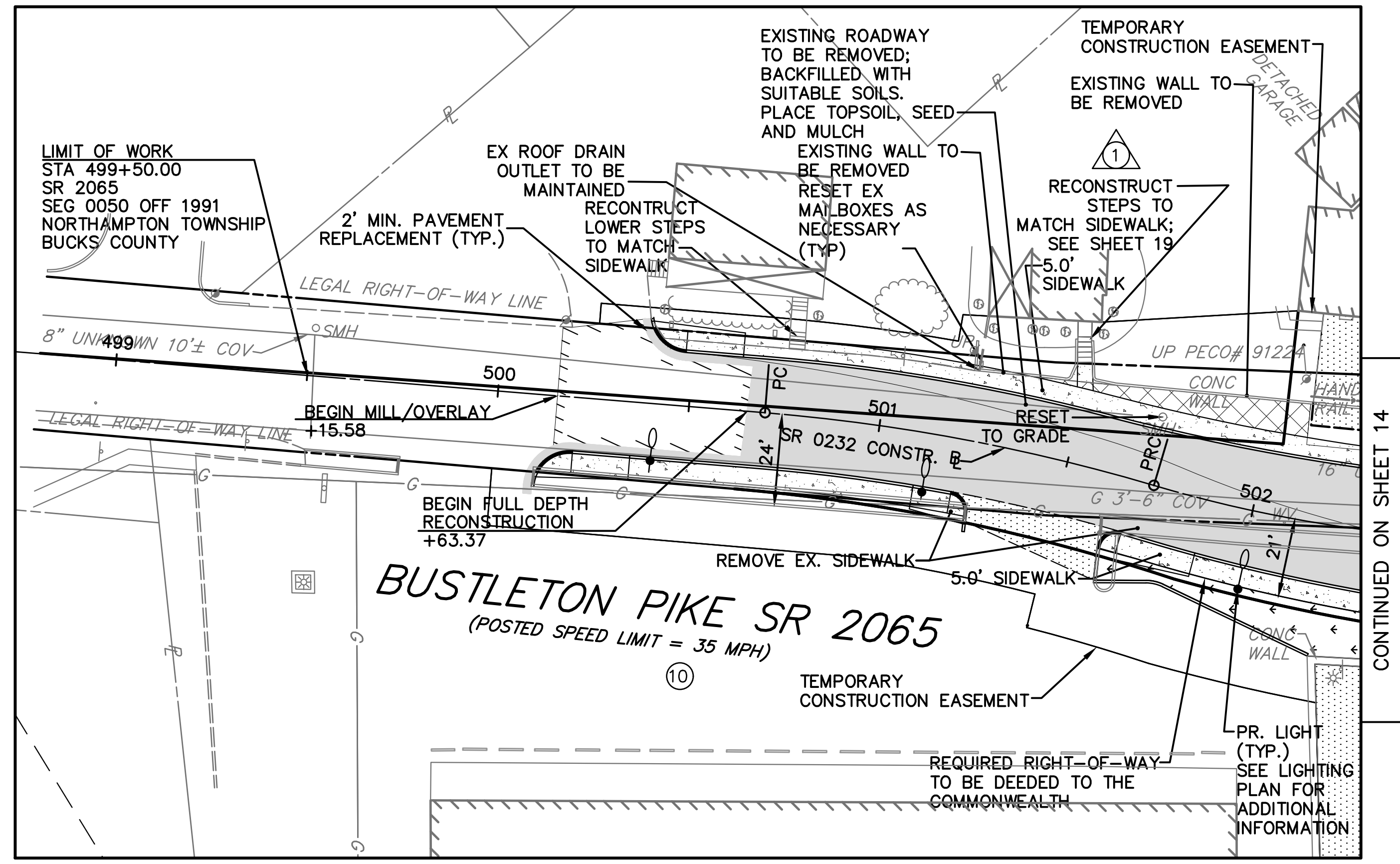
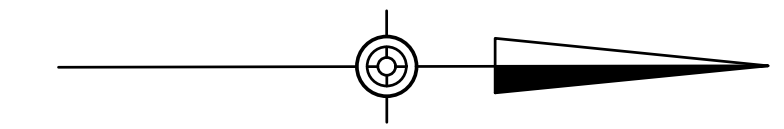
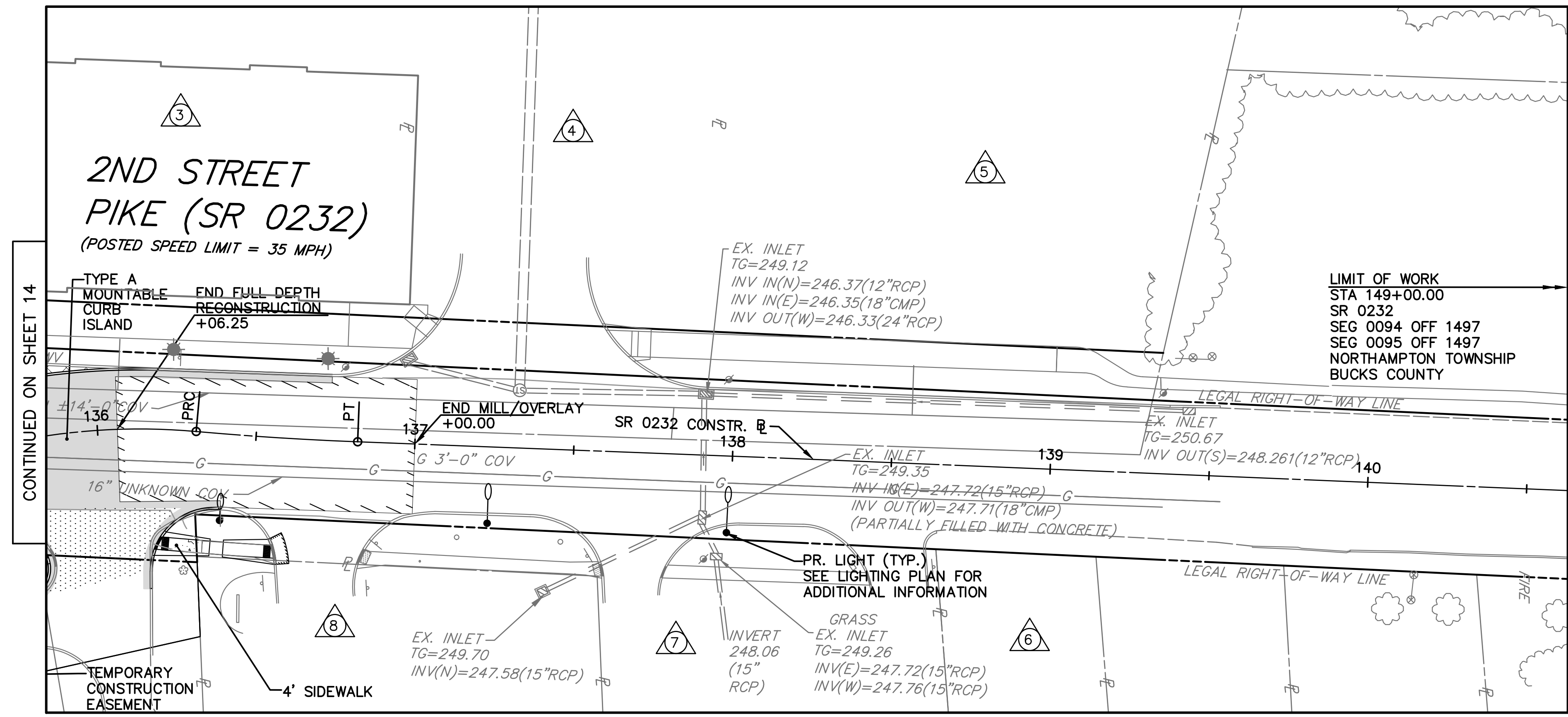
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	15 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

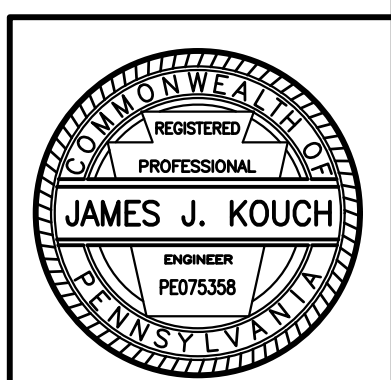
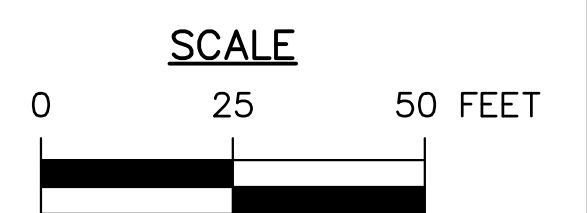


DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	16 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



GENERAL NOTES:

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2. RESET ALL UTILITY VALVES, COVERS AND MANHOLES TO GRADE, AS NECESSARY.
3. FOR DETAILED CURB RAMP DESIGNS REFER TO THE CURB RAMP PLANS INCLUDED IN THIS PLAN SET.
4. CONSTRUCT CURB RAMPS PER ADA PLANS.
5. SPLITTER ISLANDS AND TRUCK APRON TO HAVE STAMPED CONCRETE IN A PATTERN COORDINATED WITH NORTHAMPTON TOWNSHIP.
6. CONTRACTOR TO PERFORM SOFT DIG TO LOCATION UTILITIES PRIOR TO ORDERING DRAINAGE STRUCTURES.



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
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DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506RDY03
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

ROADWAY
IMPROVEMENT PLAN

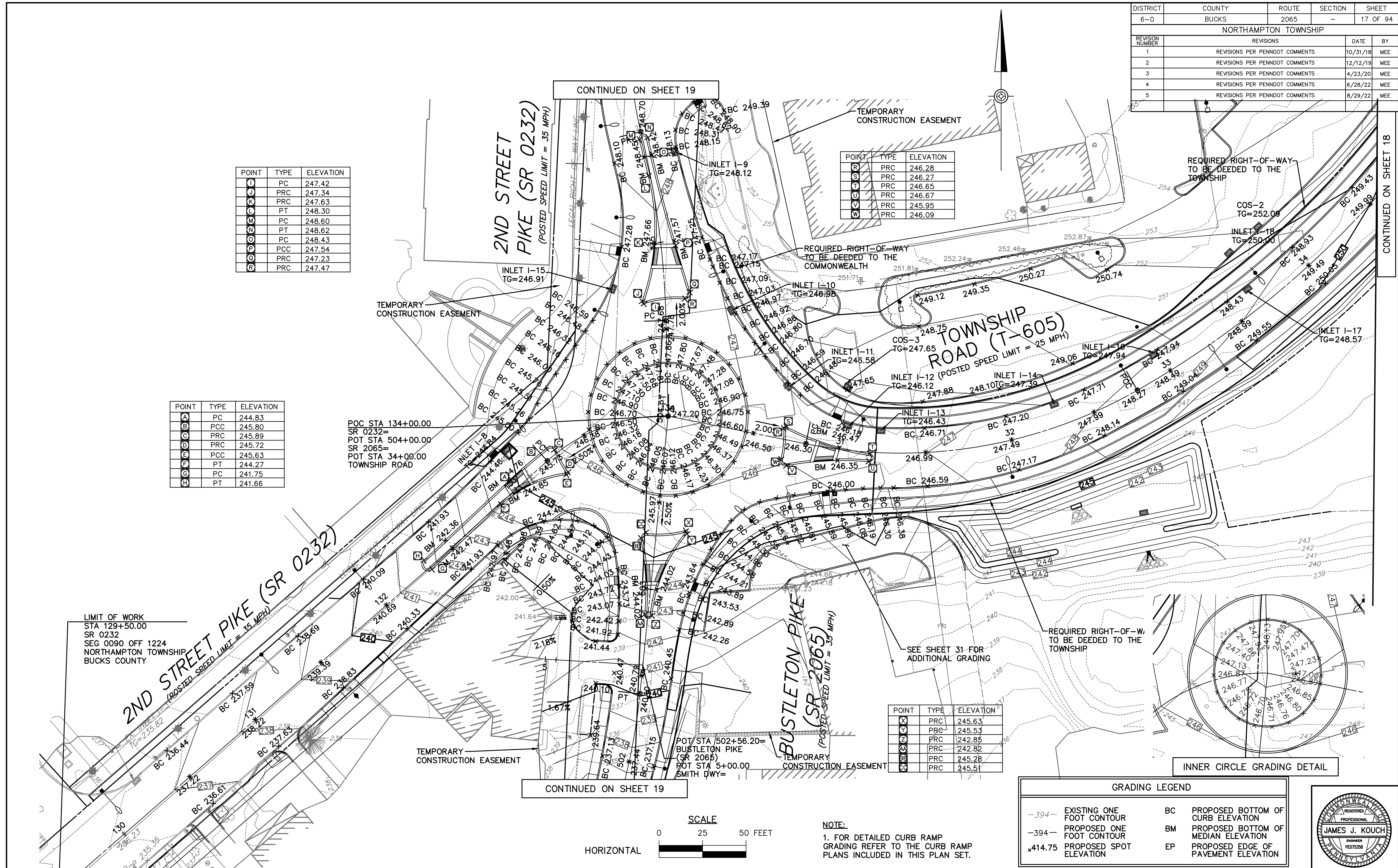
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	17 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

POINT	TYPE	ELEVATION
1	PC	247.42
2	PRC	247.34
3	PRC	247.63
4	PT	248.30
5	PC	248.60
6	PT	248.62
7	PC	248.43
8	PCC	247.54
9	PRC	247.23
10	PRC	247.47

POINT	TYPE	ELEVATION
A	PC	244.83
B	PCC	245.80
C	PRC	245.89
D	PRC	245.72
E	PCC	245.63
F	PT	244.27
G	PC	241.75
H	PT	241.66

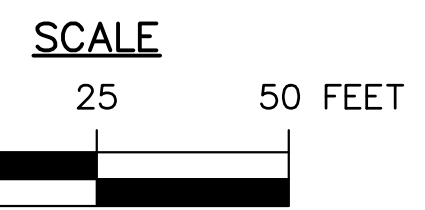
POINT	TYPE	ELEVATION
1	PRC	246.28
2	PRC	246.27
3	PRC	246.65
4	PRC	246.67
5	PRC	245.95
6	PRC	246.09

POINT	TYPE	ELEVATION
1	PRC	245.63
2	PRC	245.53
3	PRC	242.85
4	PRC	242.82
5	PRC	245.28
6	PRC	245.51



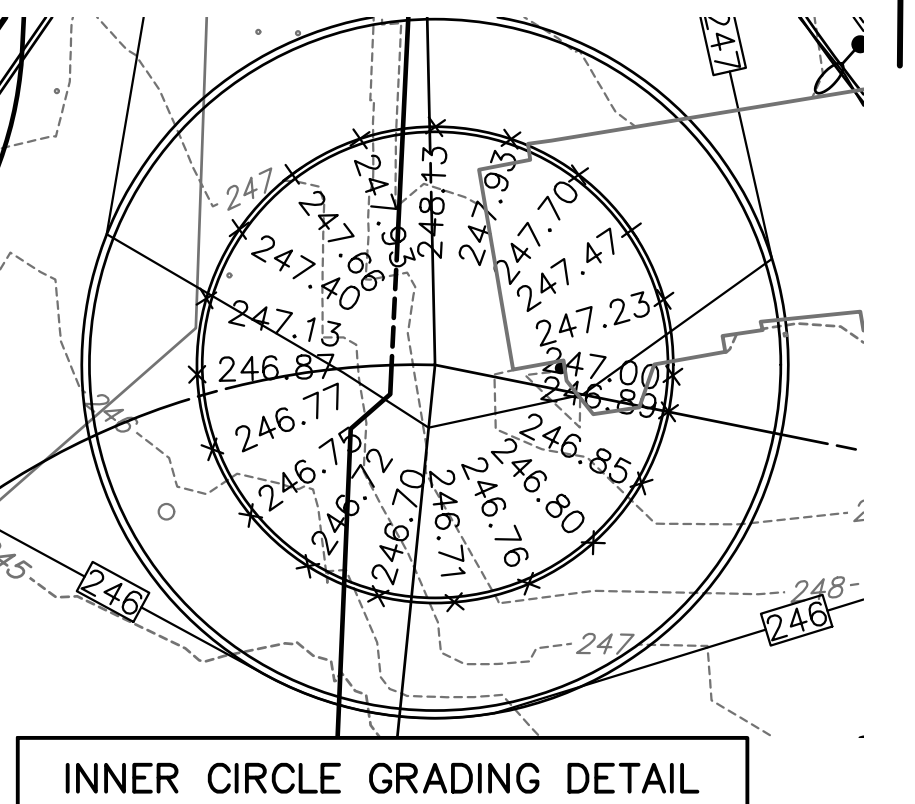
LIMIT OF WORK
 STA 129+50.00
 SR 0232
 SEG 0090 OFF 1224
 NORTHAMPTON TOWNSHIP
 BUCKS COUNTY

POC STA 134+00.00
 SR 0232=
 POT STA 504+00.00
 SR 2065=
 POT STA 34+00.00
 TOWNSHIP ROAD



NOTE:
 1. FOR DETAILED CURB RAMP GRADING REFER TO THE CURB RAMP PLANS INCLUDED IN THIS PLAN SET.

GRADING LEGEND		
-394-	EXISTING ONE FOOT CONTOUR	BC PROPOSED BOTTOM OF CURB ELEVATION
-394-	PROPOSED ONE FOOT CONTOUR	BM PROPOSED BOTTOM OF MEDIAN ELEVATION
x414.75	PROPOSED SPOT ELEVATION	EP PROPOSED EDGE OF PAVEMENT ELEVATION



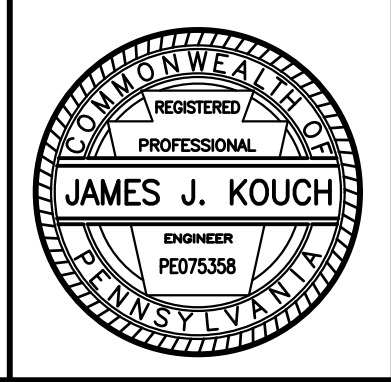
425 COMMERCE DRIVE
 SUITE 200
 FORT WASHINGTON, PA 19034
 PH: (215) 283-9444
 FAX: (215) 283-9447

DESIGN BY: KLY
 DRAWN BY: KLY
 CHECKED BY: BDD
 JOB NO: 816506.2A
 DWG: 506GRD01
 DATE: 5/16/18

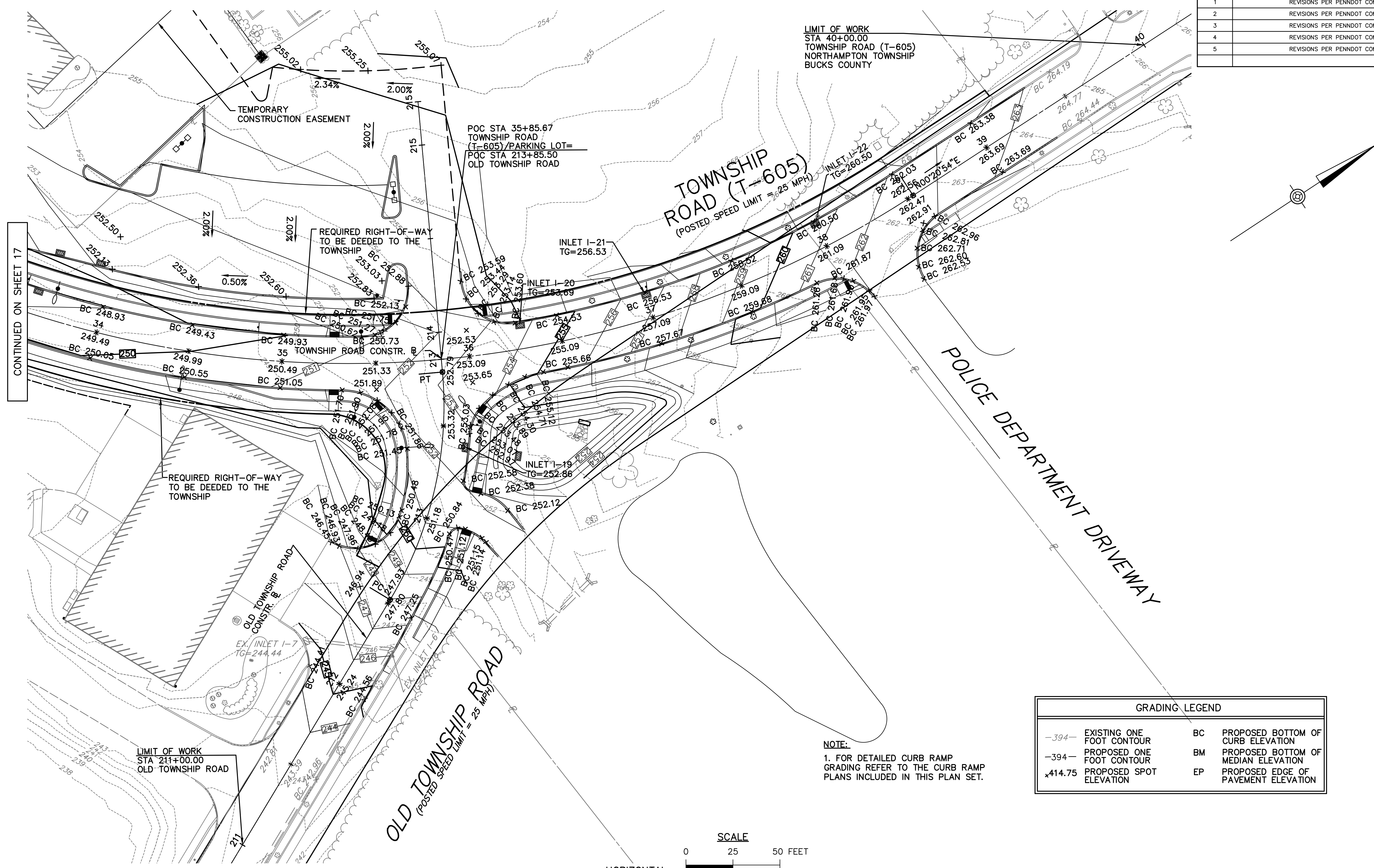
NORTHAMPTON TOWNSHIP
 55 TOWNSHIP RD
 RICHBORO, PA 18954
 (215) 357-6800

RICHBORO ROUNDABOUT
 2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
 NORTHAMPTON TOWNSHIP
 MONTGOMERY COUNTY

INTERSECTION GRADING PLAN



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	18 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



LIMIT OF WORK
 STA 40+00.00
 TOWNSHIP ROAD (T-605)
 NORTHAMPTON TOWNSHIP
 BUCKS COUNTY

REQUIRED RIGHT-OF-WAY
 TO BE DEEDED TO THE
 TOWNSHIP

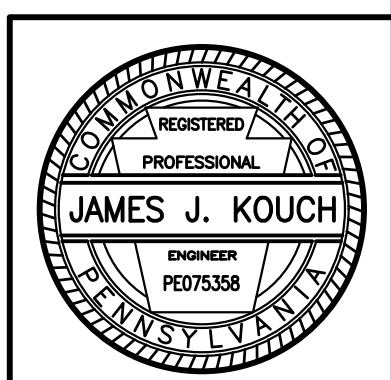
REQUIRED RIGHT-OF-WAY
 TO BE DEEDED TO THE
 TOWNSHIP

LIMIT OF WORK
 STA 211+00.00
 OLD TOWNSHIP ROAD

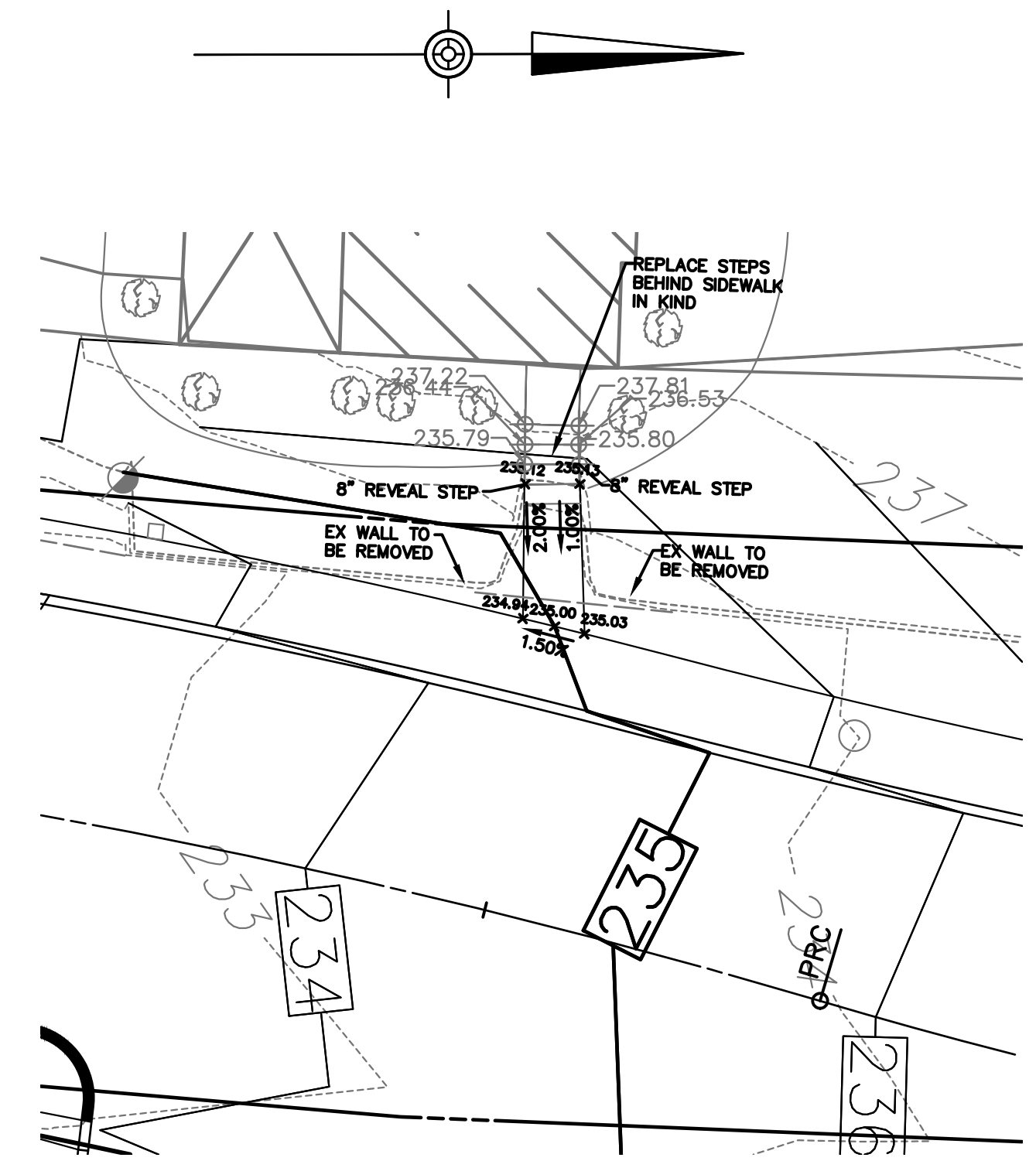
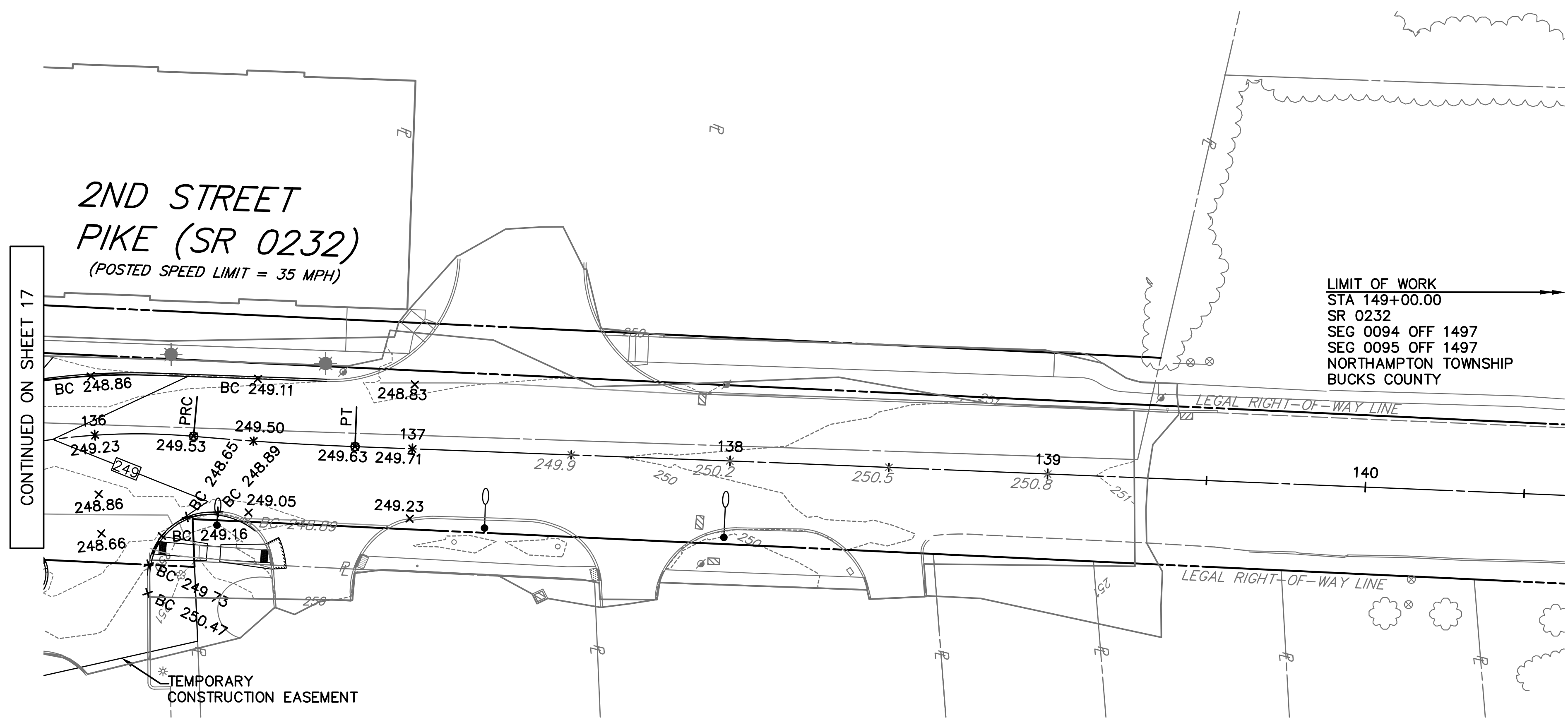
CONTINUED ON SHEET 17

GRADING LEGEND			
-394-	EXISTING ONE FOOT CONTOUR	BC	PROPOSED BOTTOM OF CURB ELEVATION
-394-	PROPOSED ONE FOOT CONTOUR	BM	PROPOSED BOTTOM OF MEDIAN ELEVATION
x414.75	PROPOSED SPOT ELEVATION	EP	PROPOSED EDGE OF PAVEMENT ELEVATION

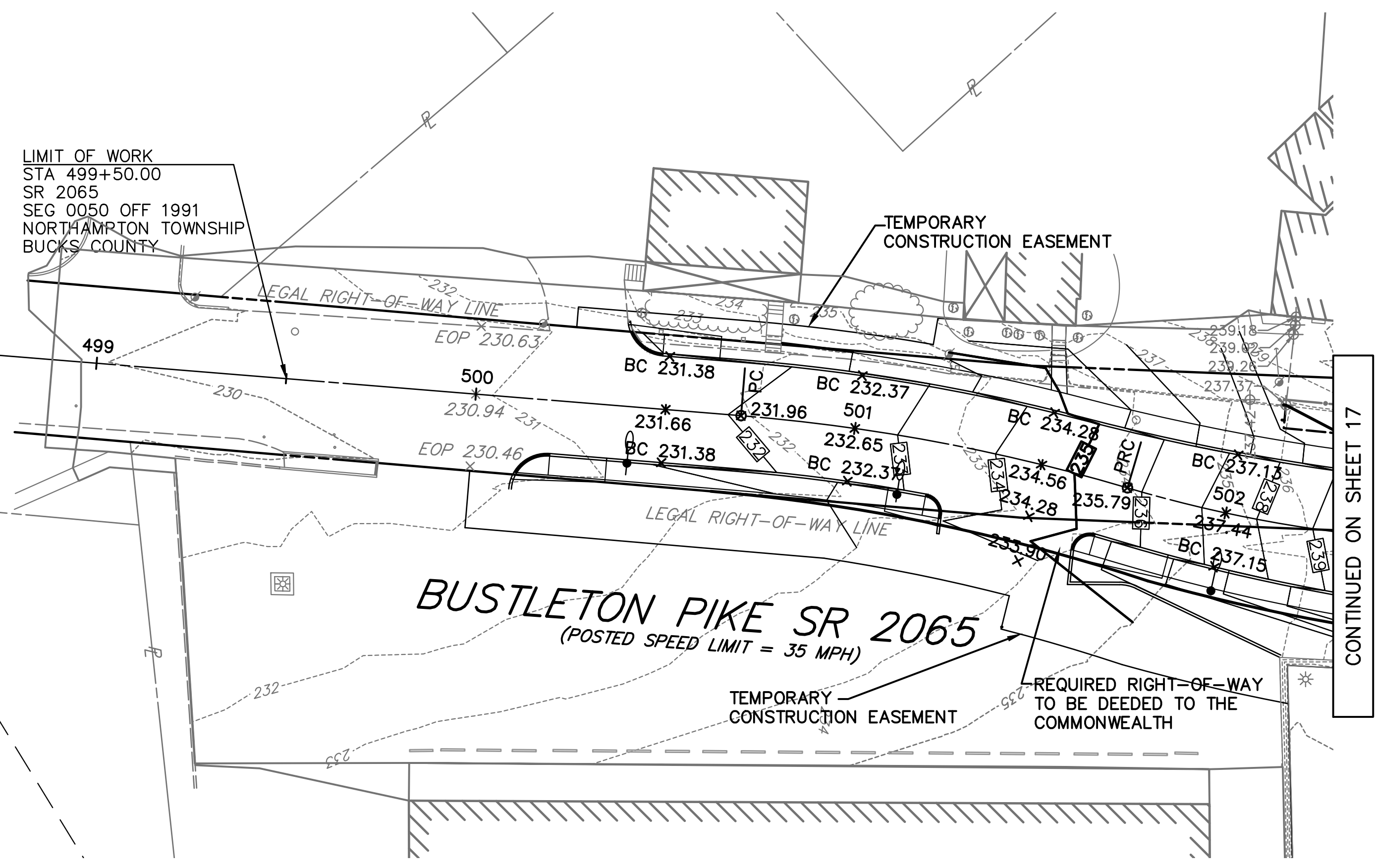
NOTE:
 1. FOR DETAILED CURB RAMP GRADING REFER TO THE CURB RAMP PLANS INCLUDED IN THIS PLAN SET.



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	19 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



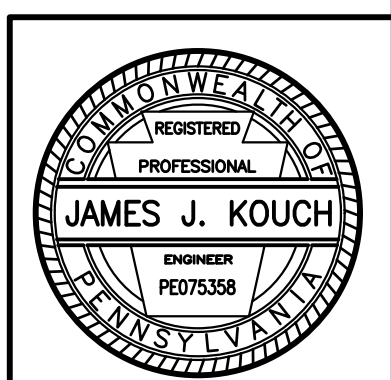
DETAILED SMITH WALKWAY GRADING



CONTINUED ON SHEET 17

GRADING LEGEND			
-394-	EXISTING ONE FOOT CONTOUR	BC	PROPOSED BOTTOM OF CURB ELEVATION
-394-	PROPOSED ONE FOOT CONTOUR	BM	PROPOSED BOTTOM OF MEDIAN ELEVATION
x414.75	PROPOSED SPOT ELEVATION	EP	PROPOSED EDGE OF PAVEMENT ELEVATION

NOTE:
1. FOR DETAILED CURB RAMP GRADING REFER TO THE CURB RAMP PLANS INCLUDED IN THIS PLAN SET.



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD

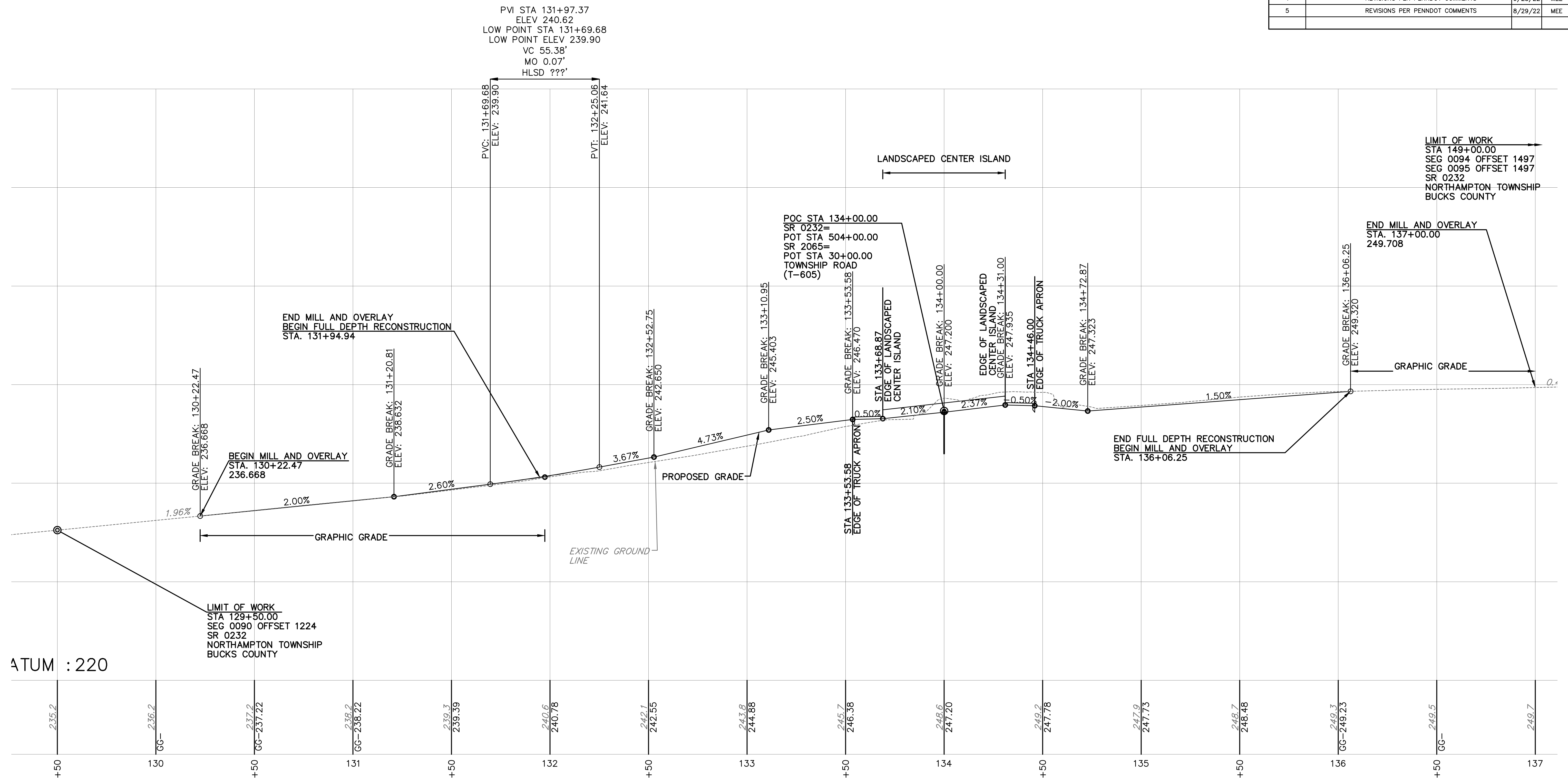
JOB NO: 816506.2A
DWG: 506GRD03
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
MONTGOMERY COUNTY

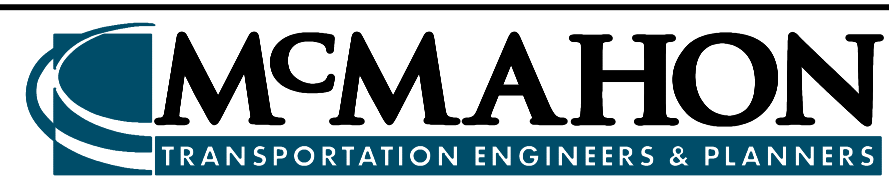
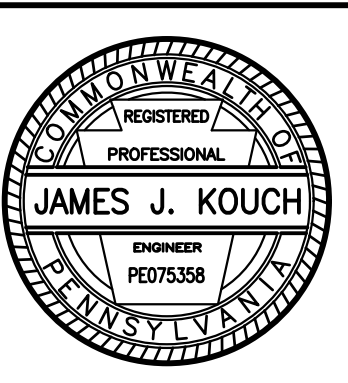
INTERSECTION GRADING PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	20 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



ATUM : 220

2ND STREET PIKE (SR 0232)



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

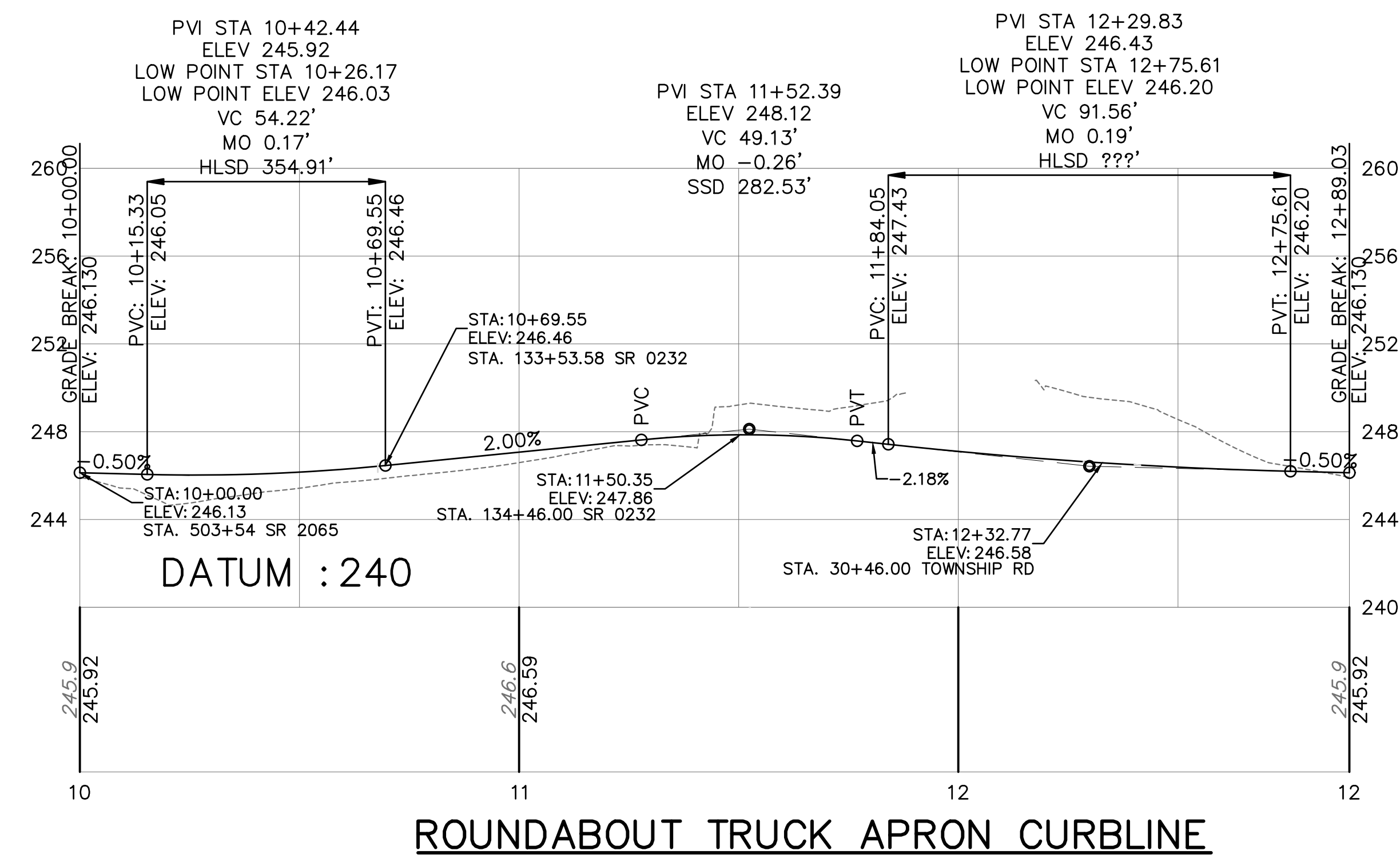
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DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506PRF01
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

ROADWAY PROFILE

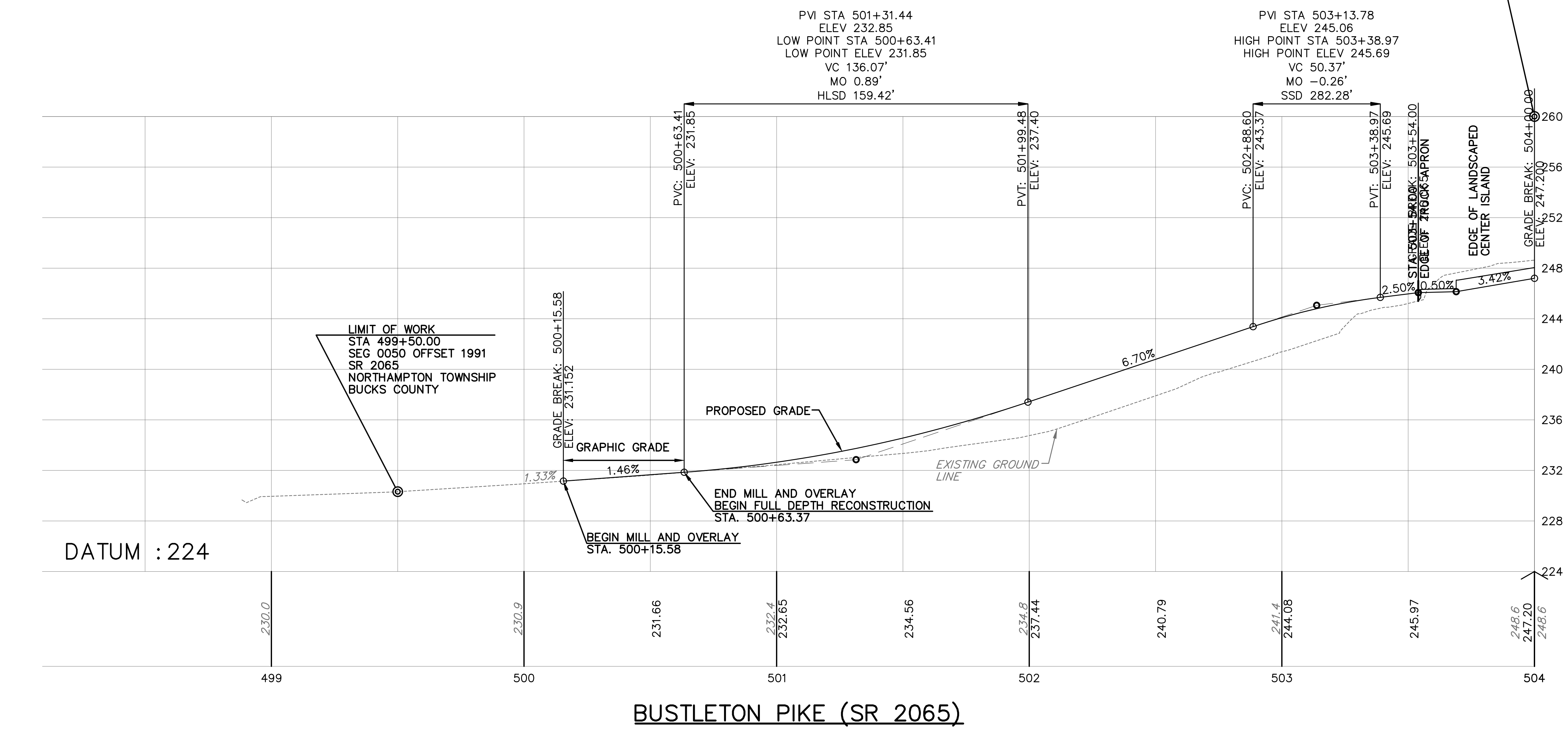
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	21 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



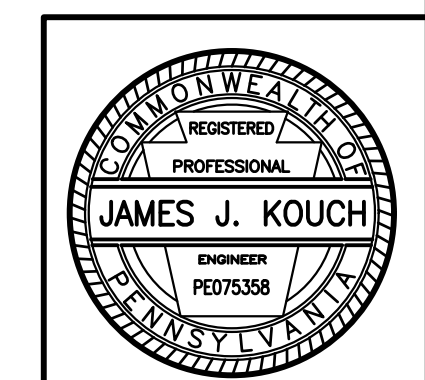
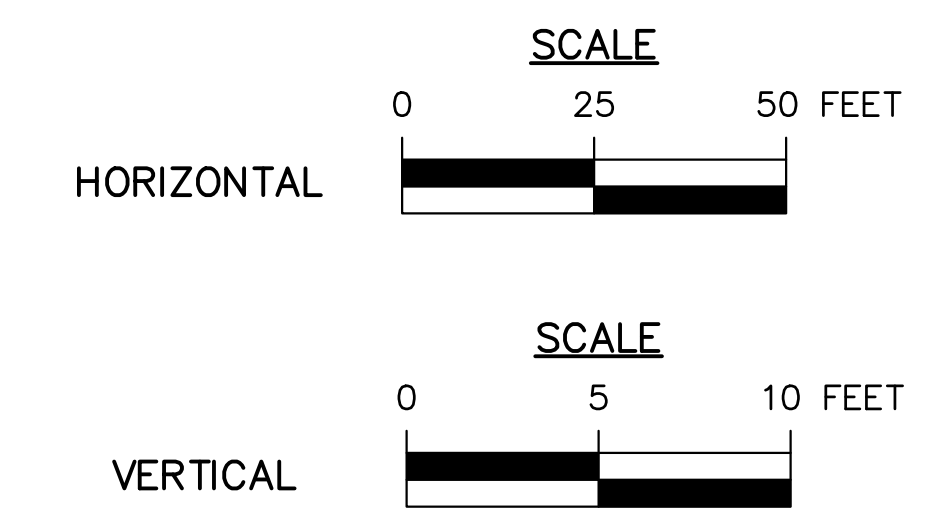
ROUNDABOUT TRUCK APRON CURBLINE

POC STA 134+00.00
 SR 0232=
 POT STA 504+00.00
 SR 2065=
 POT STA 30+00.00
 TOWNSHIP ROAD
 (T-605)

LANDSCAPED
 CENTER ISLAND



DATUM : 224



BUSTLETON PIKE (SR 2065)



425 COMMERCE DRIVE
 SUITE 200
 FORT WASHINGTON, PA 19034
 PH: (215) 283-9444
 FAX: (215) 283-9447

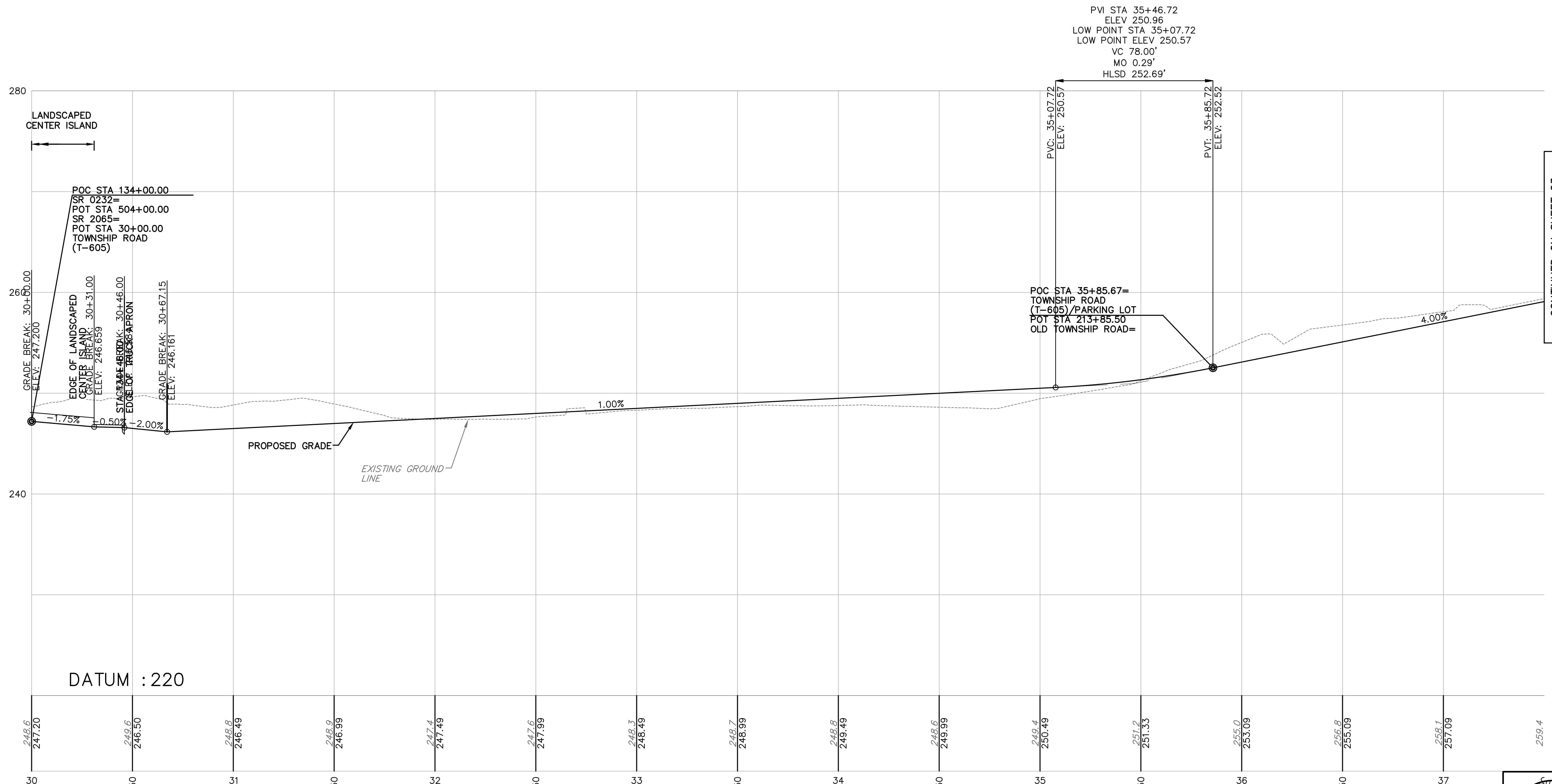
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 DRAWN BY: KLY
 CHECKED BY: BDD
 JOB NO: 816506.2A
 DWG: 506PRF01
 DATE: 5/16/18

NORTHAMPTON TOWNSHIP
 55 TOWNSHIP RD
 RICHBORO, PA 18954
 (215) 357-6800

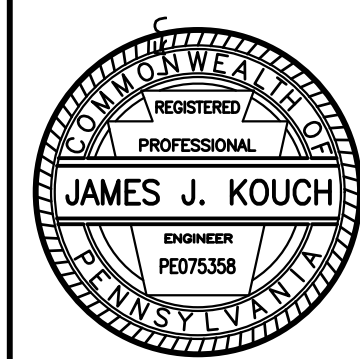
RICHBORO ROUNDABOUT
 2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
 NORTHAMPTON TOWNSHIP
 BUCKS COUNTY

ROADWAY PROFILE

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	22 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



CONTINUED ON SHEET 23



425 COMMERCE DRIVE
 SUITE 200
 FORT WASHINGTON, PA 19034
 PH: (215) 283-9444
 FAX: (215) 283-9447

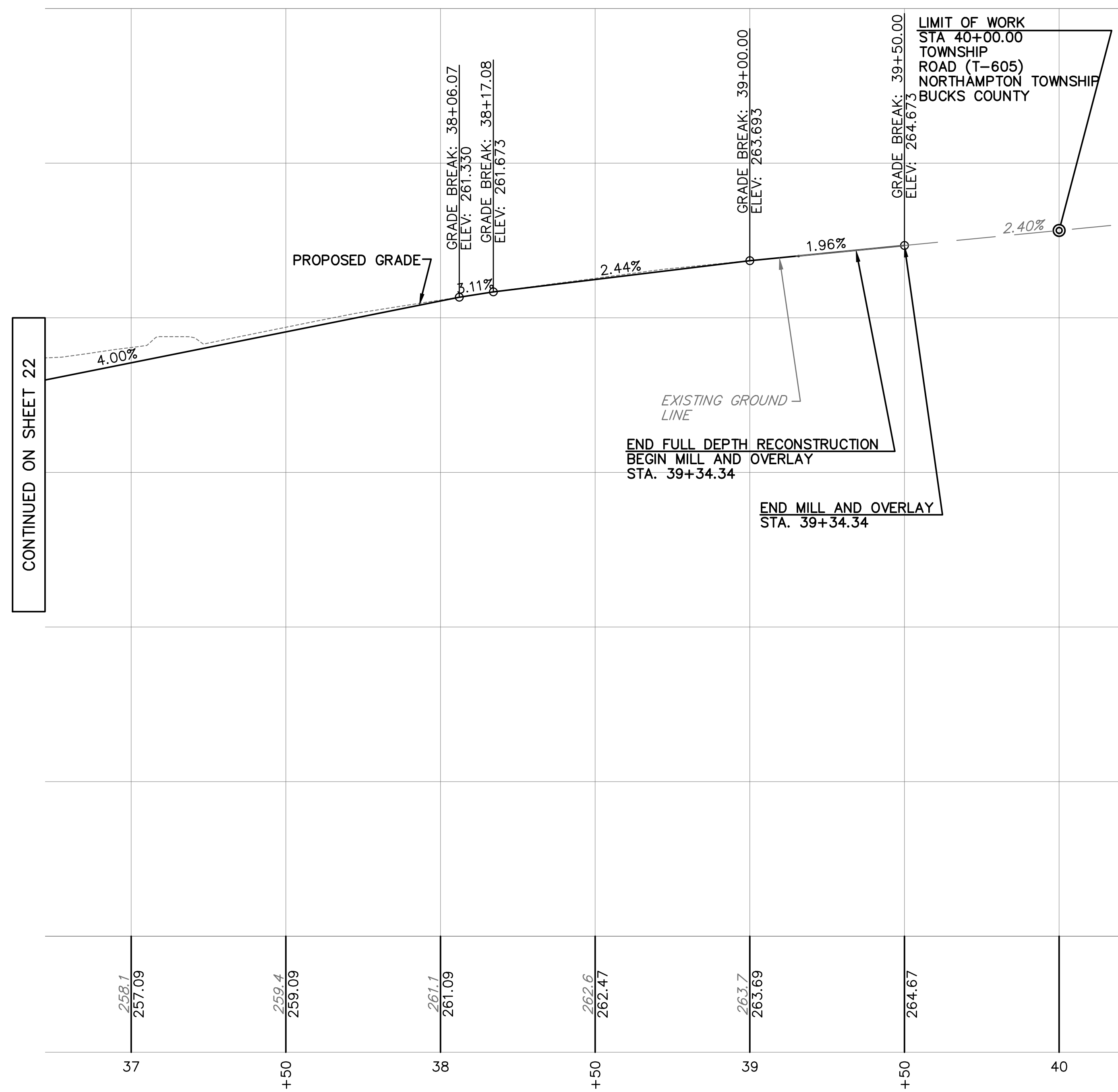
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 CHECKED BY: BDD
 JOB NO: 816506.2A
 DWG: 506PRF01
 DATE: 5/16/18

NORTHAMPTON TOWNSHIP
 55 TOWNSHIP RD
 RICHBORO, PA 18954
 (215) 357-6800

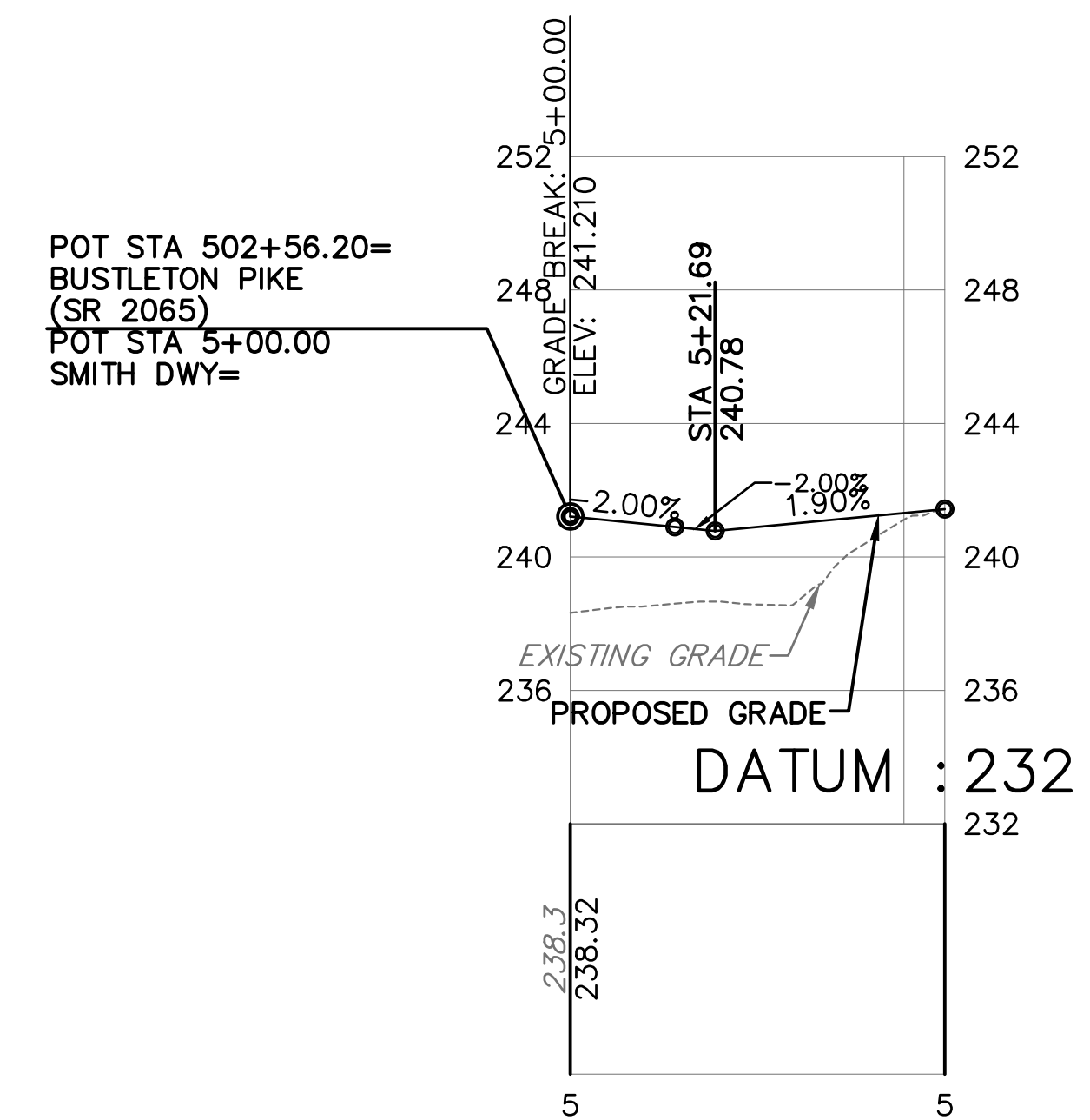
RICHBORO ROUNDABOUT
 2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
 NORTHAMPTON TOWNSHIP
 BUCKS COUNTY

ROADWAY PROFILE

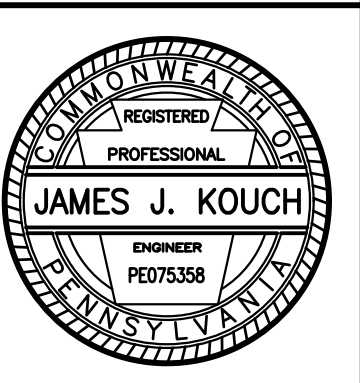
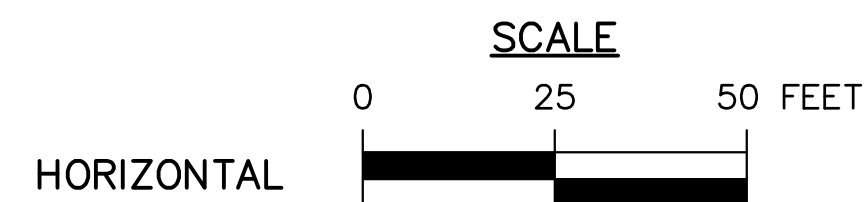
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	23 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



TOWNSHIP ROAD (T-605)



SMITH DRIVEWAY



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD

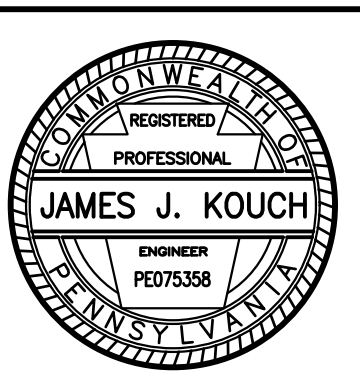
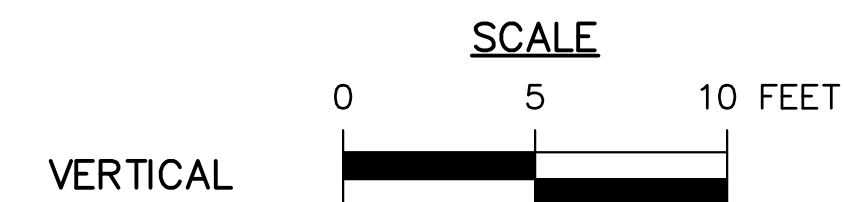
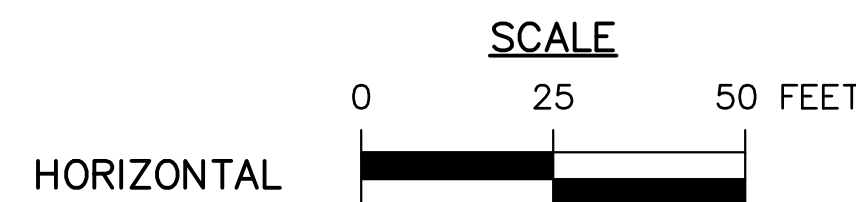
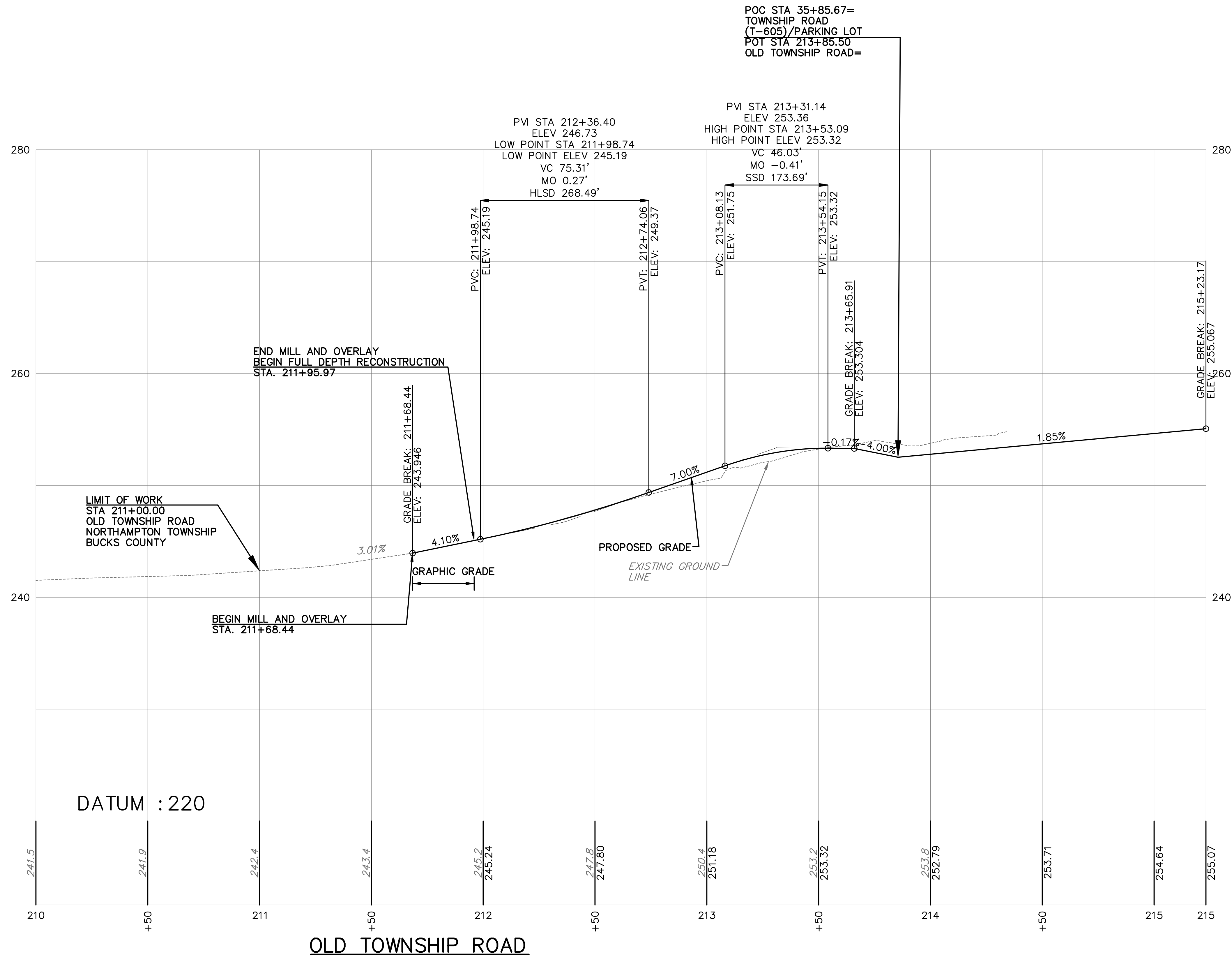
JOB NO: 816506.2A
DWG: 506PRF01
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

ROADWAY PROFILE

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	24 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
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DESIGN BY: KLY
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NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

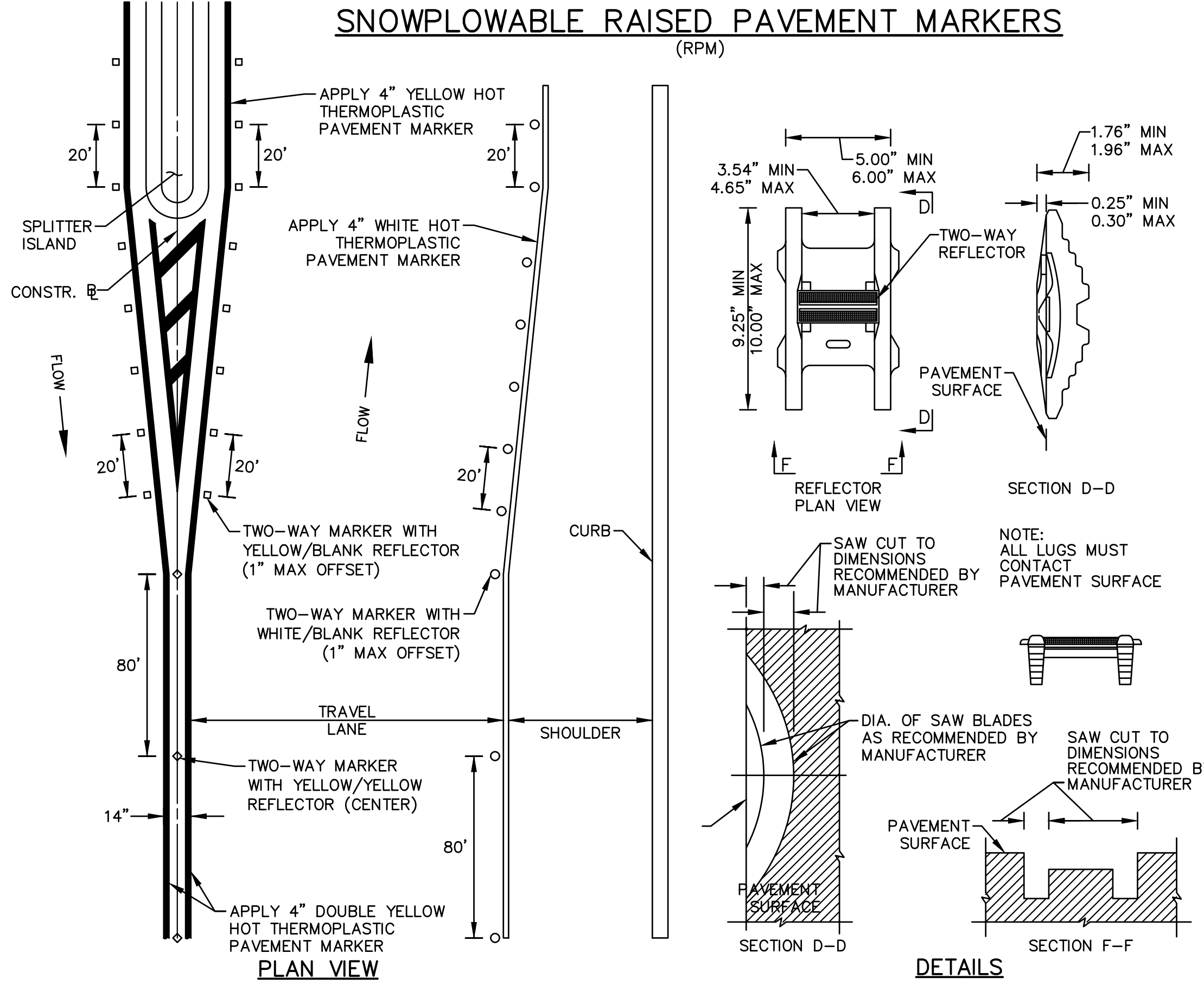
ROADWAY PROFILE

PAVEMENT MARKING GENERAL NOTES

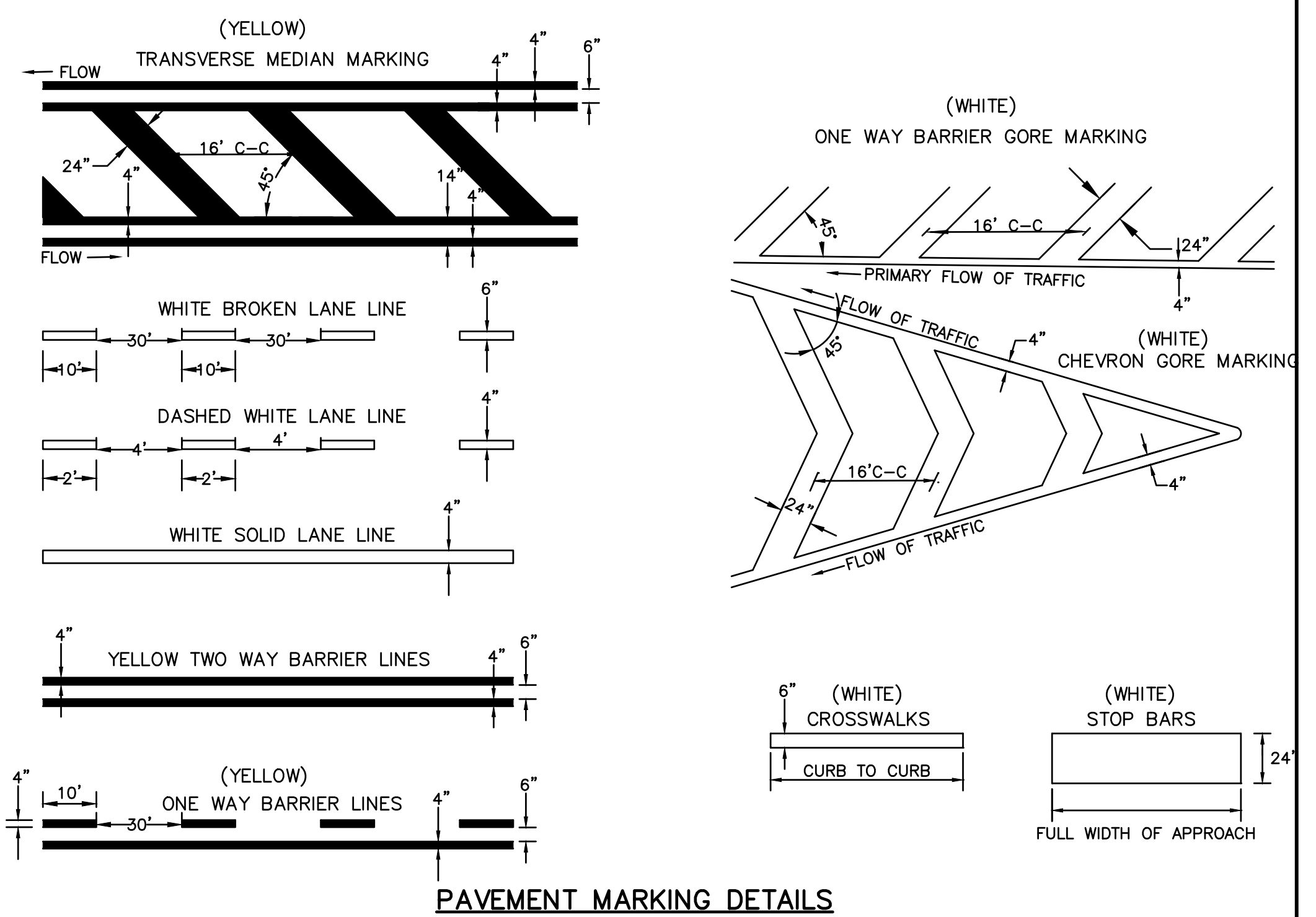
- MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DEPARTMENTS SPECIFICATIONS, PUBLICATION 408/2016, LATEST REVISION.
- THESE PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE REGULATIONS GOVERNING THE DESIGN, LOCATION AND OPERATION OF ALL OFFICIAL TRAFFIC SIGNS, SIGNALS, AND MARKINGS ON AND ALONG HIGHWAYS WITHIN THE COMMONWEALTH OF PENNSYLVANIA.
- ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED.
- THE CONTRACTOR SHALL PREPARE THE PAVEMENT SURFACE FOR THE PROPER ADHESION. ANY SWEEPING OR REMOVAL OF DEBRIS, GRAVEL, DIRT, OR OTHER FOREIGN MATERIALS SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE NEW PAVEMENT MARKINGS, AND NO SEPARATE PAYMENTS SHALL BE MADE THEREFORE.
- THE CONTRACTOR SHALL REMOVE ALL PREVIOUS PAVEMENT MARKINGS, WHICH IN THE OPINION OF THE ENGINEER CONFLICT WITH THE NEW PAVEMENT MARKINGS. UNLESS SPECIFICALLY STATED OTHERWISE THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE NEW PAVEMENT MARKINGS, AND NO SEPARATE PAYMENT WILL BE MADE THEREFORE.
- PRIOR TO APPLICATION, THE CONTRACTOR SHALL FIELD CHECK AND LOCATE ALL PAVEMENT MARKINGS TO THE SATISFACTION OF THE ENGINEER.
- ALL MARKINGS IMPROPERLY APPLIED, LOCATED, OR DAMAGED BY VEHICLES DRIVING OVER THEM BEFORE THEY ARE COMPLETELY DRY SHALL BE COMPLETELY REMOVED AND CORRECTLY REAPPLIED, AT THE SOLE EXPENSE OF THE CONTRACTOR.
- WHERE BITUMINOUS SEALANT PREVENTS OR MAKES IMPRACTICAL THE EXTENDING OF LINES TO THE FACE OF THE CURB, THE CONTRACTOR SHALL EXTEND LINES TO EDGE OF SEALANT OR WITHIN ONE FOOT OF THE FACE OF CURB, WHICHEVER IS LESS.
- WITHIN THE LIMITS OF WORK AND THE PENNDOT LEGAL RIGHT-OF-WAY ALL INAPPROPRIATE SIGNS AND SIGNS NOT LABELED TO REMAIN, TO BE RESET OR TO BE RELOCATED SHALL BE REMOVED BY THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER FOR RESOLUTION.
- ALL PROPOSED SIGNS MUST COMPLY WITH PENNDOT PUBLICATION 408/2016, LATEST REVISION, AND PENNDOT PUBLICATION 236, APPROVED SIGNS.
- ALL PEDESTRIAN CROSSWALKS, GORE AREAS, MEDIAN AREAS, LEGENDS, STOP BARS, LONG LINES AND SHORT LINES SHALL BE COMPRISED OF HOT THERMOPLASTIC PAVEMENT MARKINGS IN BITUMINOUS PAVEMENT AREAS PER PENNDOT SPECIAL PROVISION, SO0(SM09601A).
- THE CONTRACTOR IS RESPONSIBLE TO REPLACE ALL EXISTING PAVEMENT MARKINGS (SHOWN TO REMAIN ON THE PAVEMENT MARKING PLANS) AND PROPOSED PAVEMENT MARKINGS THAT WERE DAMAGED OR WERE REMOVED DURING CONSTRUCTION.
- ALL TRAFFIC LINES AND MARKINGS AND PAVEMENT MARKINGS OR LEGENDS SHALL FULLY CONFORM TO PENNDOT SPECIFICATIONS PUBLICATION 408/2016, SECTIONS 960 AND BE CONSTRUCTED IN ACCORDANCE WITH 67 PA CODE CHAPTER 212 SUBCHAPTER C AND CONFORM TO MUTCD STANDARDS.
- THE PAVEMENT MARKINGS AND SIGNING INDICATED ON THE TRAFFIC SIGNAL PERMIT PLAN TAKE PRECEDENCE OVER THE H.O.P. PAVEMENT MARKING AND SIGNING PLAN WITHIN THE VICINITY OF THE INTERSECTION.
- ALL EXISTING PAVEMENT MARKINGS WHICH ARE NO LONGER APPROPRIATE SHALL BE ERADICATED BY THE PERMITTEE USING AN ERADICATION METHOD APPROVED BY A PENNDOT FIELD REPRESENTATIVE. THE PERMITTEE SHALL PLACE ALL REQUIRED NEW PAVEMENT MARKINGS.
- ALL EXISTING SIGNS THAT ARE NO LONGER APPROPRIATE SHALL BE RETURNED TO THE COUNTY, MUNICIPALITY OR TO THE LOCAL PENNDOT MAINTENANCE DISTRICT OFFICE BY THE CONTRACTOR.
- ALL LONG LINES, SHORT LINES AND PAVEMENT MARKING LEGENDS ON BITUMINOUS PAVEMENT MUST BE HOT THERMOPLASTIC.
- ALL LONG LINES, SHORT LINES AND PAVEMENT MARKING LEGENDS ON CONCRETE PAVEMENT MUST BE EPOXY.
- PAVEMENT MARKINGS ON THE STATE HIGHWAY MUST BE IN ACCORDANCE WITH TC-8600, DATED JUNE 13, 2013.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	25 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

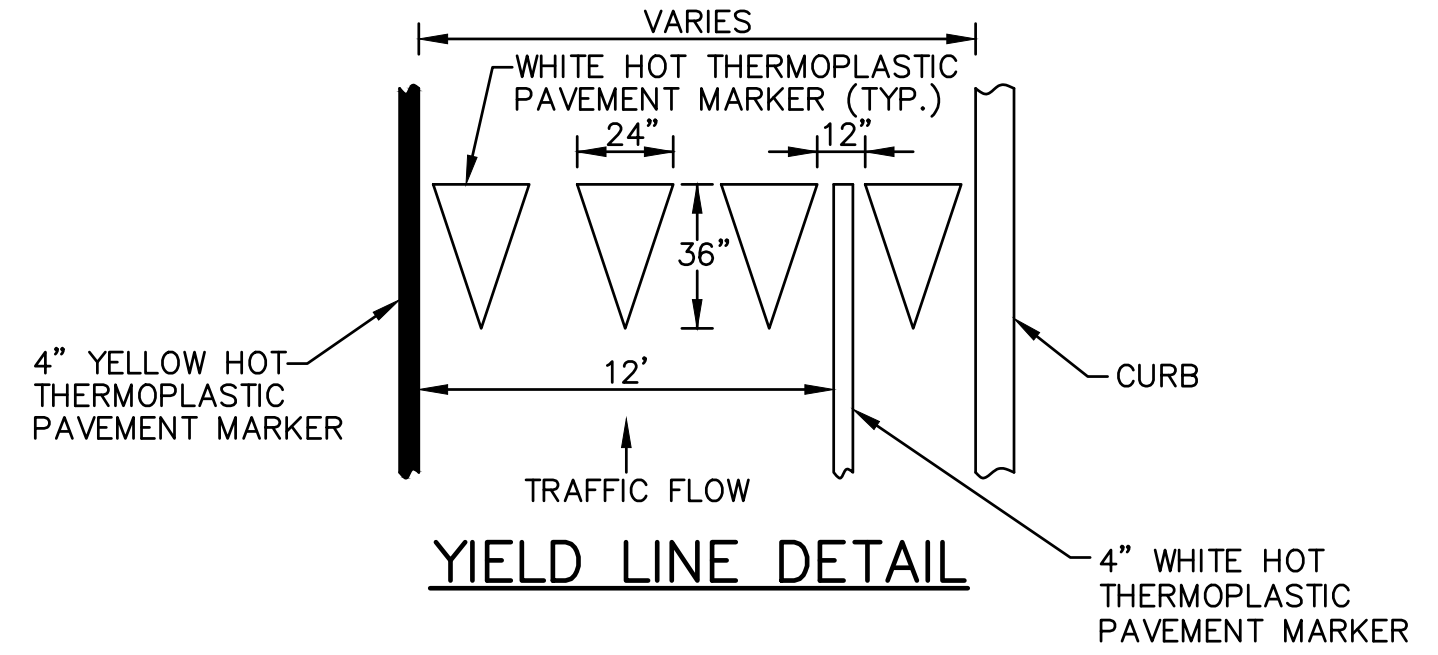
SNOWPLOWABLE RAISED PAVEMENT MARKERS (RPM)



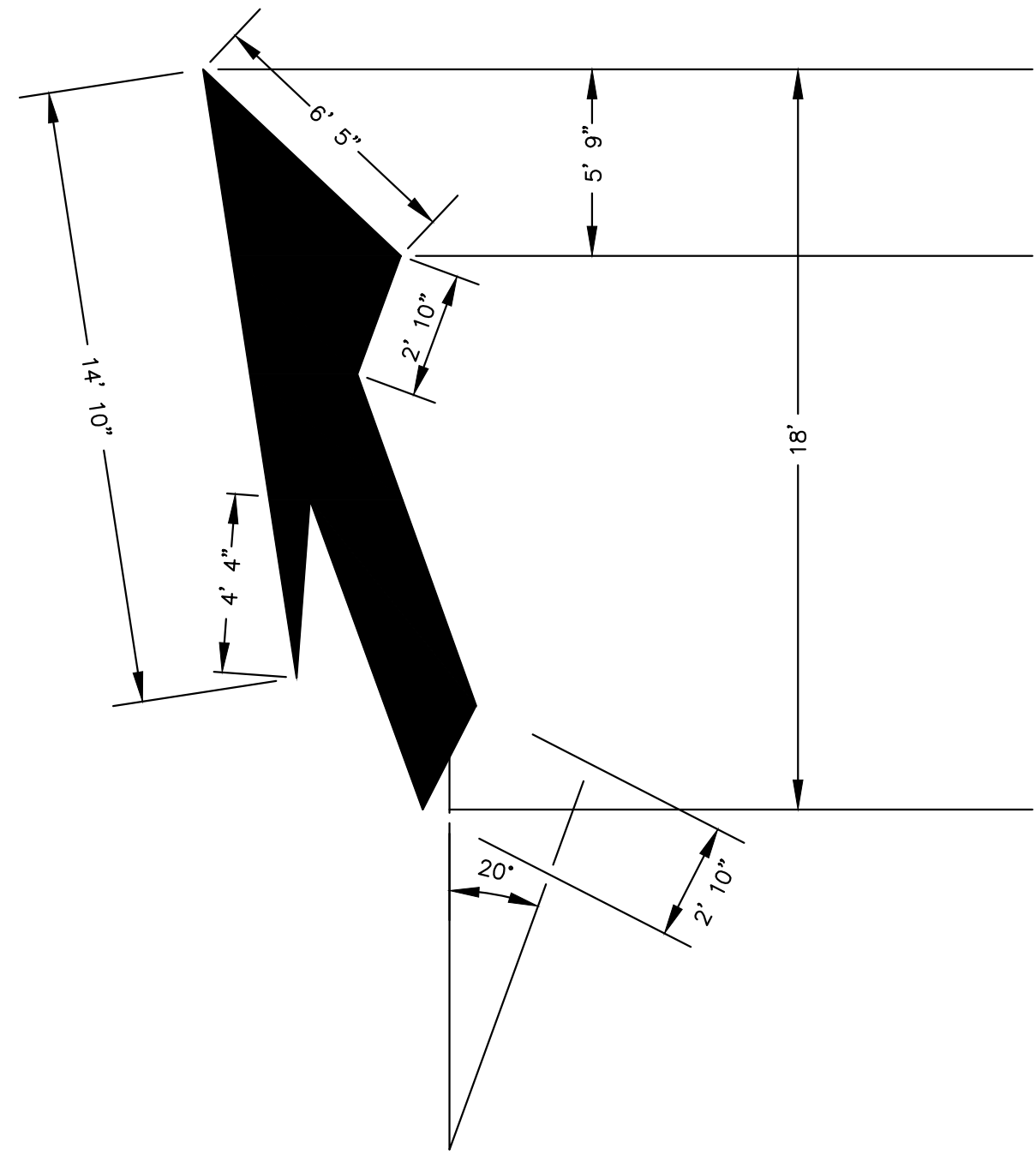
NOTE: SEE PUB 111, TC-8602, FOR MORE DETAILS.



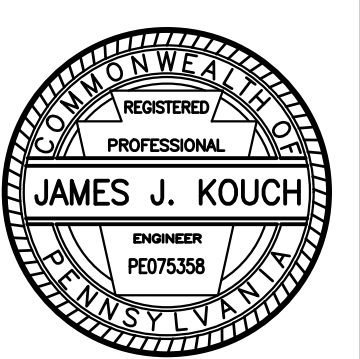
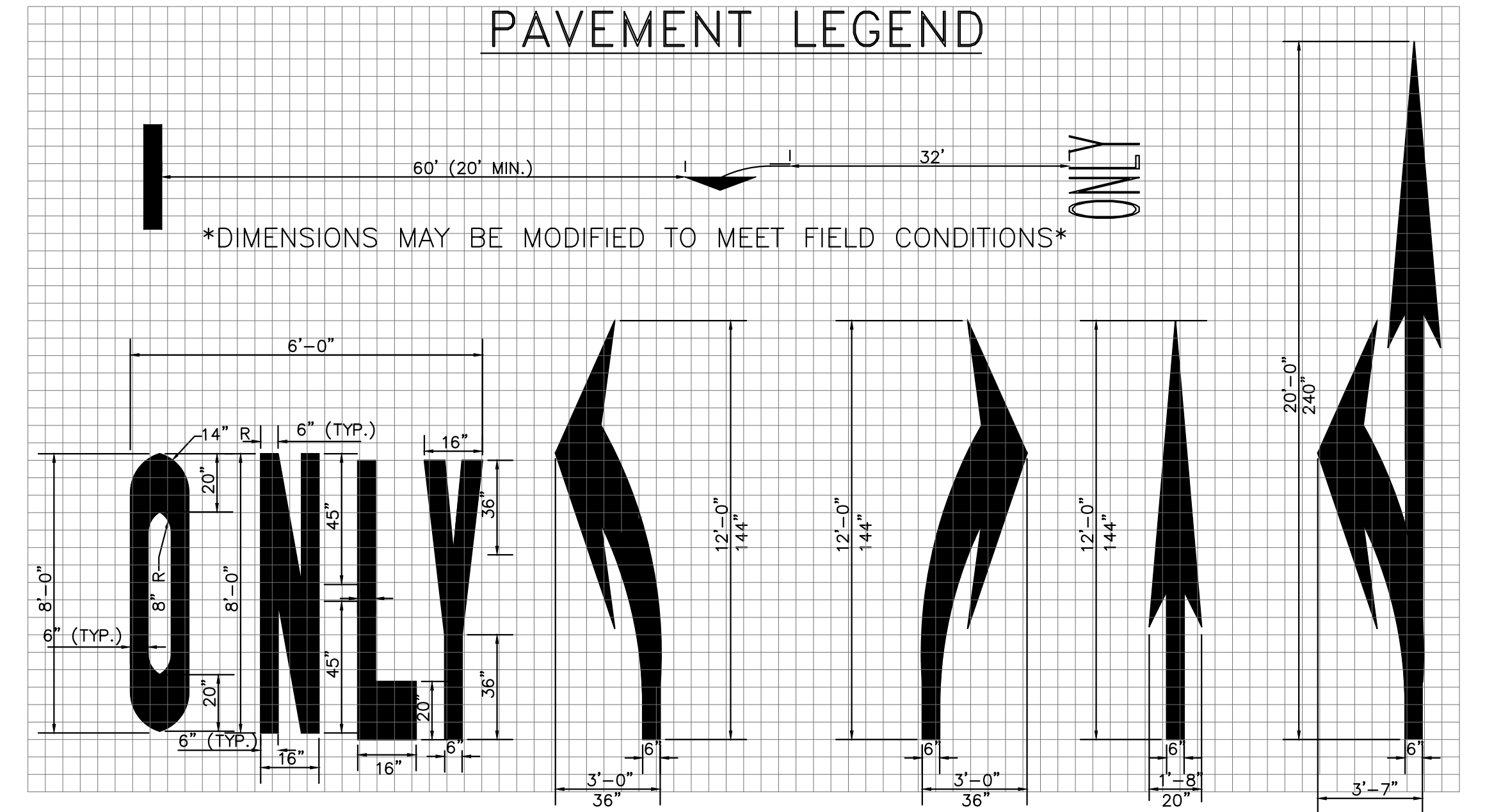
PAVEMENT MARKING DETAILS



YIELD LINE DETAIL



LANE REDUCTION ARROW DETAIL



425 COMMERCE DRIVE
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DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506PVM01
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

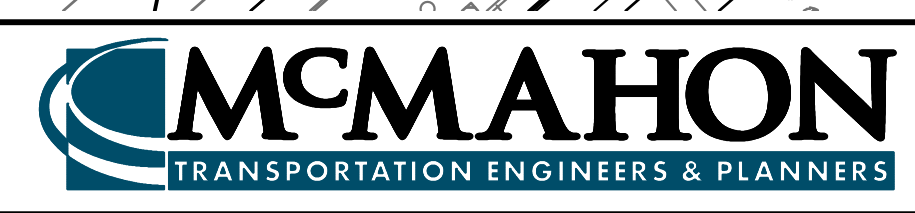
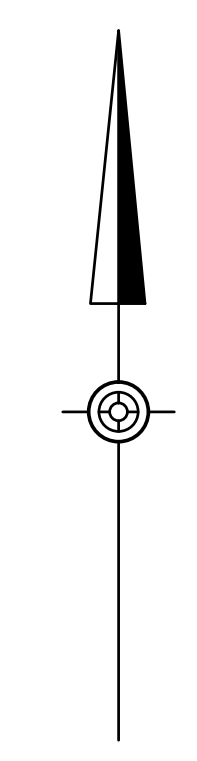
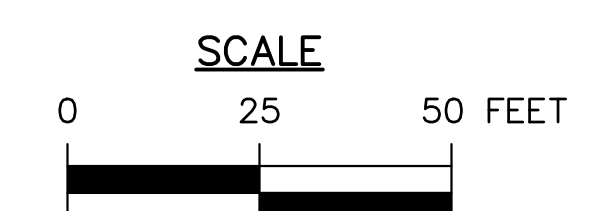
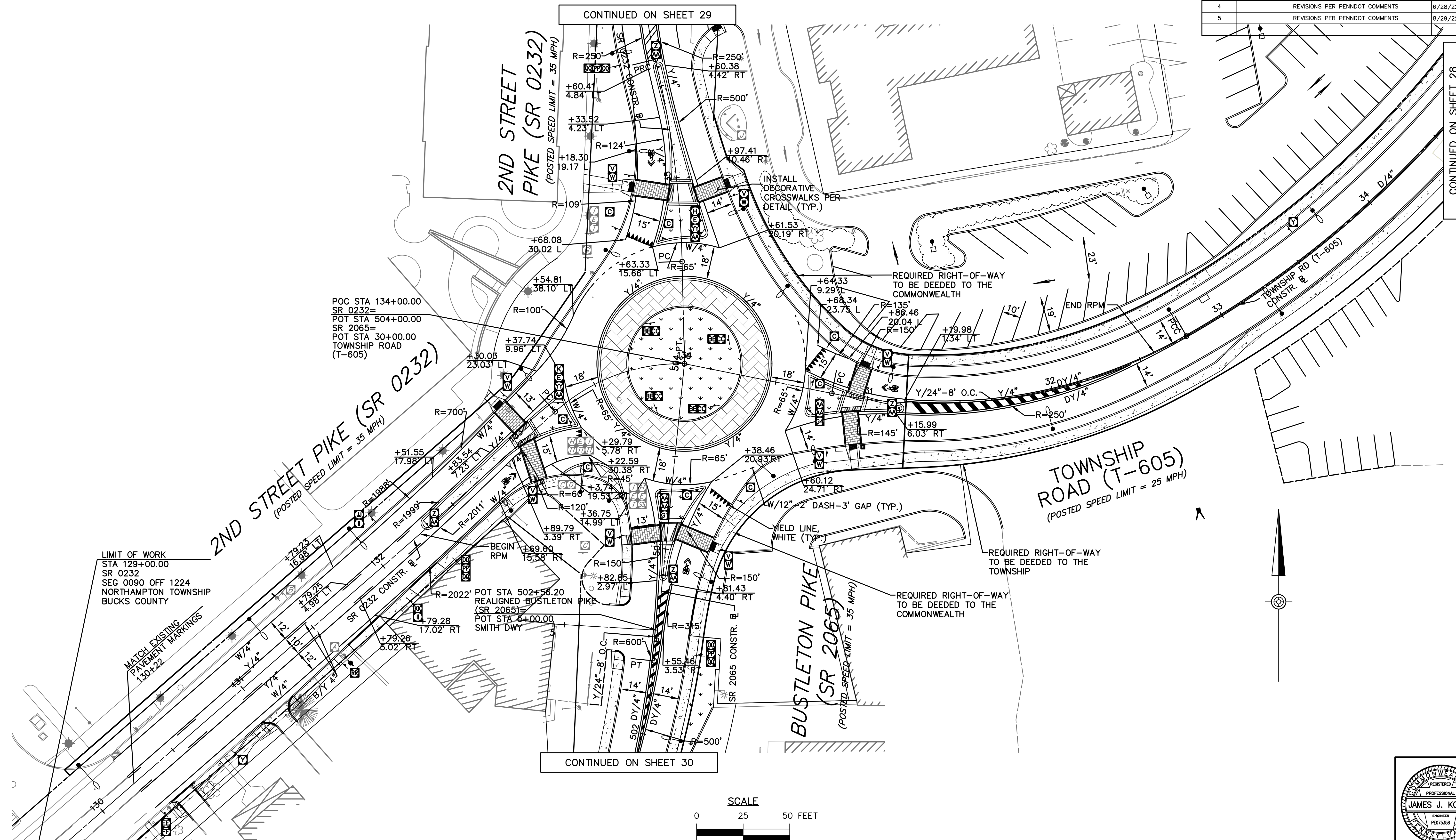
PAVEMENT MARKING PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	26 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

SIGN TABULATION									
PLAN SYMBOL	SERIES	SIZE	DESCRIPTION	STATION	STATE ROUTE	SEGMENT	OFFSET	ACTION	MAINTENANCE RESPONSIBILITY
A	R3-8A	30"x30"	LANE USE CONTROL (TWO LANES), L-R	131+51 RT	0232	0090	1353	REMOVE	PENNDOT
B	I44-1	36"x12"	ADOPT A HIGHWAY	131+50 LT	0232	0090	1353	REMAIN	PENNDOT
C	R1-2	36"x36"	YIELD	132+84 RT	0232	0090	1453	REMOVE	PENNDOT
C	R1-2	36"x36"	YIELD	133+09 RT	0232	0090	1385	REMOVE	PENNDOT
C	R1-2	36"x36"	YIELD	30+69 LT	-	-	-	NEW	PENNDOT
C	R1-2	36"x36"	YIELD	30+74 LT	-	-	-	NEW	PENNDOT
C	R1-2	36"x36"	YIELD	503+26 RT	2065	0050	2373	NEW	PENNDOT
C	R1-2	36"x36"	YIELD	503+32 RT	2065	0050	2379	NEW	PENNDOT
C	R1-2	36"x36"	YIELD	133+15 RT	0232	0090	1568	NEW	PENNDOT
C	R1-2	36"x36"	YIELD	133+27 RT	0232	0090	1580	NEW	PENNDOT
C	R1-2	36"x36"	YIELD	134+68 LT	0232	0094	0068	NEW	PENNDOT
C	R1-2	36"x36"	YIELD	134+75 LT	0232	0094	0075	NEW	PENNDOT
D	R5-1	30"x30"	DO NOT ENTER	133+09 RT	0232	0090	1385	REMOVE	PENNDOT
E	M1-5	24"x24"	PENNSYLVANIA ROUTE MARKER, 232	133+09 RT	0232	0090	1385	REMOVE	PENNDOT
E	M1-5	24"x24"	PENNSYLVANIA ROUTE MARKER, 232	136+40 RT	0232	0094	0240	REMAIN	PENNDOT
E	M1-5	24"x24"	PENNSYLVANIA ROUTE MARKER, 232	134+72 LT	0232	0094	0072	REMOVE	PENNDOT
E	M1-5	24"x24"	PENNSYLVANIA ROUTE MARKER, 332	143+92 RT	0232	0094	0992	REMAIN	PENNDOT
E	M1-5	24"x24"	PENNSYLVANIA ROUTE MARKER, 332	143+92 RT	0232	0094	0992	REMAIN	PENNDOT
E	M1-5	24"x24"	PENNSYLVANIA ROUTE MARKER, 332	503+35 LT	0232	0050	2382	REMOVE	PENNDOT
E	M1-5	24"x24"	PENNSYLVANIA ROUTE MARKER, 332	503+35 LT	0232	0050	2382	REMOVE	PENNDOT
E	M1-5	24"x24"	PENNSYLVANIA ROUTE MARKER, 232	134+70 RT	0232	0094	0070	NEW	PENNDOT
E	M1-5	24"x24"	PENNSYLVANIA ROUTE MARKER, 232	133+28 LT	0232	0090	1581	NEW	PENNDOT
F	R3-7R	30"x30"	RIGHT LANE MUST TURN RIGHT	141+46 LT	0232	0094	0746	REMAIN	PENNDOT
G	R3-8A	30"x30"	LANE USE CONTROL (TWO LANES), S-R	136+25 LT	0232	0094	0225	REMOVE	PENNDOT
H	M3-1	24"x12"	NORTH	133+09 RT	0232	0090	1385	REMOVE	PENNDOT
H	M3-1	24"x12"	NORTH	136+40 RT	0232	0094	0240	REMAIN	PENNDOT
H	M3-1	24"x12"	NORTH	503+35 LT	2065	0050	2382	REMOVE	PENNDOT
H	M3-1	24"x12"	NORTH	134+70 RT	0232	0094	0070	NEW	PENNDOT
I	M3-3	24"x24"	SOUTH	134+72 LT	0232	0094	0072	REMOVE	PENNDOT
J	M3-3	24"x24"	SOUTH	503+35 RT	2065	0050	2382	REMOVE	PENNDOT
K	-	-	CAMPBELL FUNERAL HOME	135+25 RT	0232	0094	0124	REMAIN	PRIVATE
K	M3-4	24"x12"	WEST	143+92 RT	0232	0094	0992	REMAIN	PENNDOT
K	M3-4	24"x12"	WEST	133+28 LT	0232	0090	1581	NEW	PENNDOT
L	M3-2	24"x12"	EAST	143+92 RT	0232	0094	0992	REMAIN	PENNDOT
M	M1-1L	24"x15"	ADVANCE 90 DEGREE LEFT TURN MARKER	143+92 RT	0232	0094	0992	REMAIN	PENNDOT
N	R1-1	30"x30"	STOP	136+88 RT	0232	0094	0288	REMAIN	PRIVATE
N	R1-1	30"x30"	STOP	137+04 LT	0232	0094	0304	REMAIN	PRIVATE
N	R1-1	30"x30"	STOP	136+22 RT	0232	0094	0222	NEW	PRIVATE
N	R1-1	30"x30"	STOP	213+52 RT	-	-	-	NEW	TOWNSHIP
N	R1-1	30"x30"	STOP	214+19 LT	-	-	-	NEW	TOWNSHIP
O	M1-RL	24"x15"	ADVANCE 90 DEGREE RIGHT TURN MARKER	143+92 RT	0232	0094	0992	REMAIN	PENNDOT
P	R6-2L	18"x24"	ONE WAY	138+65 RT	0232	0094	0464	REMAIN	PRIVATE
Q	M2-1	21"x15"	JUNCTION MARKER 232	498+94 RT	2065	0050	1941	REMAIN	PENNDOT
R	R8-3	12"x12"	NO PARKING	499+32 RT	2065	0050	1979	REMAIN	PENNDOT
S	R2-1	24"x30"	35 MPH	500+97 LT	2065	0050	2144	RELOCATE	PENNDOT
S	R2-1	24"x30"	35 MPH	141+80 LT	0232	0094	0780	REMAIN	PENNDOT
S	R2-1	24"x30"	35 MPH	147+36 RT	0232	0094	1336	REMAIN	PENNDOT
T	M6-1	21"x15"	90 DEGREE TURN MARKER	503+35 LT	2065	0050	2382	REMOVE	PENNDOT
T	M6-1	21"x15"	90 DEGREE TURN MARKER	133+09 RT	0232	0090	1385	REMOVE	PENNDOT
T	M6-1	21"x15"	90 DEGREE TURN MARKER	134+72 LT	0232	0094	0072	REMOVE	PENNDOT
V	W11-2	30"x30"	PEDESTRIAN SIGN	30+85 RT	-	-	-	NEW	PENNDOT
V	W11-2	30"x30"	PEDESTRIAN SIGN	31+03 LT	-	-	-	NEW	PENNDOT
V	W11-2	30"x30"	PEDESTRIAN SIGN	503+00 RT	2065	0050	2347	NEW	PENNDOT
V	W11-2	30"x30"	PEDESTRIAN SIGN	503+09 LT	2065	0050	2356	NEW	PENNDOT
V	W11-2	30"x30"	PEDESTRIAN SIGN	132+92 RT	0232	0090	1545	NEW	PENNDOT
V	W11-2	30"x30"	PEDESTRIAN SIGN	133+10 LT	0232	0090	1563	NEW	PENNDOT
V	W11-2	30"x30"	PEDESTRIAN SIGN	134+88 RT	0232	0094	0088	NEW	PENNDOT
V	W11-2	30"x30"	PEDESTRIAN SIGN	135+04 LT	0232	0094	0104	NEW	PENNDOT
W	W16-7P	24"x12"	DIAGONAL DOWNWARD POINTING ARROW SIGN	30+85 RT	-	-	-	NEW	PENNDOT
W	W16-7P	24"x12"	DIAGONAL DOWNWARD POINTING ARROW SIGN	31+03 LT	-	-	-	NEW	PENNDOT
W	W16-7P	24"x12"	DIAGONAL DOWNWARD POINTING ARROW SIGN	503+00 RT	2065	0050	2347	NEW	PENNDOT
W	W16-7P	24"x12"	DIAGONAL DOWNWARD POINTING ARROW SIGN	503+09 LT	2065	0050	2356	NEW	PENNDOT
W	W16-7P	24"x12"	DIAGONAL DOWNWARD POINTING ARROW SIGN	132+92 RT	0232	0090	1545	NEW	PENNDOT
W	W16-7P	24"x12"	DIAGONAL DOWNWARD POINTING ARROW SIGN	133+10 LT	0232	0090	1563	NEW	PENNDOT
W	W16-7P	24"x12"	DIAGONAL DOWNWARD POINTING ARROW SIGN	134+88 RT	0232	0094	0088	NEW	PENNDOT
W	W16-7P	24"x12"	DIAGONAL DOWNWARD POINTING ARROW SIGN	135+04 LT	0232	0094	0104	NEW	PENNDOT
X	D1-3A	48"x24"	TRIPLE-LINE DESTINATION MILEAGE SIGN	143+92 RT	0232	0094	0992	REMAIN	PENNDOT
Y	W3-2	36"x36"	YIELD AHEAD SIGN	33+57 LT	-	-	-	NEW	PENNDOT
Y	W3-2	36"x36"	YIELD AHEAD SIGN	501+02 RT	2065	0050	2149	NEW	PENNDOT
Y	W3-2	36"x36"	YIELD AHEAD SIGN	130+74 RT	0232	0090	1327	NEW	PENNDOT
Y	W3-2	36"x36"	YIELD AHEAD SIGN	136+87 LT	0232	0094	0287	NEW	PENNDOT
Z	R4-7	24"x30"	KEEP RIGHT SIGN	31+18 RT	-	-	-	NEW	PENNDOT
Z	R4-7	24"x30"	KEEP RIGHT SIGN	502+87 LT	2065	0050	2334	NEW	PENNDOT
Z	R4-7	24"x30"	KEEP RIGHT SIGN	132+33 LT	0232	0090	1486	NEW	PENNDOT

Z	R4-7	24"x30"	KEEP RIGHT SIGN	135+60 RT	0232	0094	0160	NEW	PENNDOT
AA	OM1-3	18"x18"	OBJECT MARKER	30+71 RT	-	-	-	NEW	PENNDOT
AA	OM1-3	18"x18"	OBJECT MARKER	30+71 RT	-	-	-	NEW	PENNDOT
AA	OM1-3	18"x18"	OBJECT MARKER	31+18 RT	-	-	-	NEW	PENNDOT
AA	OM1-3	18"x18"	OBJECT MARKER	502+87 LT	2065	0050	2334	NEW	PENNDOT
AA	OM1-3	18"x18"	OBJECT MARKER	503+29 LT	2065	0050	2376	NEW	PENNDOT
AA	OM1-3	18"x18"	OBJECT MARKER	503+29 LT	2065	0050	2376	NEW	PENNDOT
AA	OM1-3	18"x18"	OBJECT MARKER	132+33 LT	0232	0090	1486	NEW	PENNDOT
AA	OM1-3	18"x18"	OBJECT MARKER	133+28 LT	0232	0090	1581	NEW	PENNDOT
AA	OM1-3	18"x18"	OBJECT MARKER	134+70 RT	0232	0094	0070	NEW	PENNDOT
AA	OM1-3	18"x18"	OBJECT MARKER	135+60 RT	0232	0094	0160	NEW	PENNDOT
BB	R6-4A	48"x24"	ROUNDABOUT DIRECTIONAL ARROW SIGN	30+21 LT	-	-	-	NEW	PENNDOT
BB	R6-4A	48"x24"	ROUNDABOUT DIRECTIONAL ARROW SIGN	503+75 RT	2065	0050	2422	NEW	PENNDOT
BB	R6-4A	48"x24"	ROUNDABOUT DIRECTIONAL ARROW SIGN	133+81 RT	0232	0090	1634	NEW	PENNDOT
BB	R6-4A	48"x24"	ROUNDABOUT DIRECTIONAL ARROW SIGN	134+22 LT	0232	0094	0022	NEW	PENNDOT
CC	R6-1R	36"x12"	ONE WAY SIGN	30+21 LT	-	-	-	NEW	PENNDOT
CC	R6-1R	36"x12"	ONE WAY SIGN	503+75 RT	2065	0050	2422	NEW	PENNDOT
CC	R6-1R	36"x12"	ONE WAY SIGN	133+81 RT	0232	0090	1634	NEW	PENNDOT
CC	R6-1R	36"x12"	ONE WAY SIGN	134+22 LT	0232	0094	0022	NEW	PENNDOT
EE	W2-6	30"x30"	CIRCULAR INTERSECTION SIGN	500+13 RT	2065	0050	2060	NEW	PENNDOT
EE	W2-6	30"x30"	CIRCULAR INTERSECTION SIGN	130+24 RT	0232	0090	1277	NEW	PENNDOT
EE	W2-6	30"x30"	CIRCULAR INTERSECTION SIGN	138+98 LT	0232	0094	0498	NEW	PENNDOT
EE	W2-6	30"x30"	CIRCULAR INTERSECTION SIGN	34+87 LT	-	-	-	NEW	PENNDOT
FF	W16-17P	24"x12"	ROUNDABOUT PLAQUE	500+13 RT	2065	0050	2060	NEW	PENNDOT
FF	W16-17P	24"x12"	ROUNDABOUT PLAQUE	130+24 RT	0232	0090	1277	NEW	PENNDOT
FF	W16-17P	24"x12"	ROUNDABOUT PLAQUE	138+98 LT	0232	0094	0498	NEW	PENNDOT
FF	W16-17P	24"x12"	ROUNDABOUT PLAQUE	34+87 LT	-	-	-	NEW	PENNDOT
GG	D1-1d	96"x18"	CIRCULAR INTERSECTION EXIT DESTINATION (SEE DETAIL)	503+29 LT	2065	0050	2376	NEW	PENNDOT
GG	D1-1d	90"x18"	CIRCULAR INTERSECTION EXIT DESTINATION (SEE DETAIL)	30+71 RT	-	-	-	NEW	PENNDOT
HH	D9-2	24"x24"	HOSPITAL	146+05 RT	0232	0094	1205	REMAIN	PENNDOT
II	R3-9B	24"x36"	CENTER LANE-LEFT TURN ONLY	132+00 RT	0232	0090	1456	NEW	PENNDOT
II	R3-9B	24"x36"	CENTER LANE-LEFT TURN ONLY	132+10 LT	0232	0090	1466	NEW	PENNDOT
II	R3-9B	24"x36"	CENTER LANE-LEFT TURN ONLY	136+07 LT	0232	0094	0207	NEW	PENNDOT
II	R3-9B	24"x36"	CENTER LANE-LEFT TURN ONLY	137+03 RT	0232	0094	0303	NEW	PENNDOT
II	R3-9B	24"x36"	CENTER LANE-LEFT TURN ONLY	146+24 RT	0232	0094	1224	NEW	PENNDOT
II	R3-9B	24"x36"	CENTER LANE-LEFT TURN ONLY	146+28 LT	0232	0094	1228	NEW	PENNDOT
II	R3-9CP	24"x12"	BEGIN	132+10 LT	0232	0090	1466	NEW	PENNDOT
II	R3-9CP	24"x12"	BEGIN	137+03 RT	0232	0094	0303	NEW	PENNDOT
II	R3-9CP	24"x12"	BEGIN	146+28 LT	0232	0094	1228	NEW	PENNDOT
KK	R3-9DP	24"x12"	END	132+00 RT	0232	0090	1456	NEW	PENNDOT
KK	R3-9DP	24"x12"	END	136+07 LT	0232	0094	0207	NEW	PENNDOT
KK	R3-9DP	24"x12"	END	146+24 RT	0232	0094	1224	NEW	PENNDOT
LL	W4-2R	36"x36"	PAVEMENT WIDTH TRANSITION-RIGHT LANE ENDS	142+86 LT	0232	0094	0886	NEW	PENNDOT
MM	-	-	NO PARKING STOPPING OR STANDING	37+01 LT	-	-	-	RELOCATE	TOWNSHIP
NN	D3-1	VAR.	STREET NAME SIGN	35+55 LT	-	-	-	NEW	TOWNSHIP
NN	D3-1	VAR.	STREET NAME SIGN	35+55 LT	-	-	-	NEW	TOWNSHIP
OO	R5-2	24"x24"	NO TRUCKS	132+31 RT	0232	0090	1484	NEW	PENNDOT
OO	R5-2	24"x24"	NO TRUCKS	135+66 LT	0232	0094	0166	NEW	PENNDOT
OO	R5-2	24"x24"	NO TRUCKS	502+46 RT	2065	0050	2293	NEW	PENNDOT
PP	R5-2-4	24"x12"	OVER 55 FEET	132+31 RT	0232	0090	1484	NEW	PENNDOT
PP	R5-2-4	24"x12"	OVER 55 FEET	135+66 LT	0232	0094	0166	NEW	PENNDOT
PP	R5-2-4	24"x12"	OVER 55 FEET	502+46 RT	2065	0050	2293	NEW	PENNDOT
QQ	SPECIAL	30"x24"	TOWNSHIP ROAD	132+31 RT	0232	0090	1484	NEW	PENNDOT
QQ	SPECIAL	30"x24"	TOWNSHIP ROAD	135+66 LT	0232	0094	0166	NEW	PENNDOT
QQ	SPECIAL	30"x24"	TOWNSHIP ROAD	502+46 RT	2065	0050	2293	NEW	PENNDOT
RR	SPECIAL	48"x30"	SEE DETAIL	131+					

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	27 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
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425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

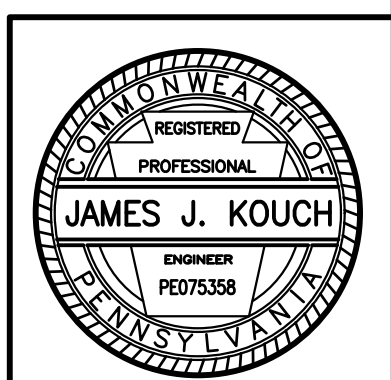
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DRAWN BY: KLY
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DATE: 5/16/18

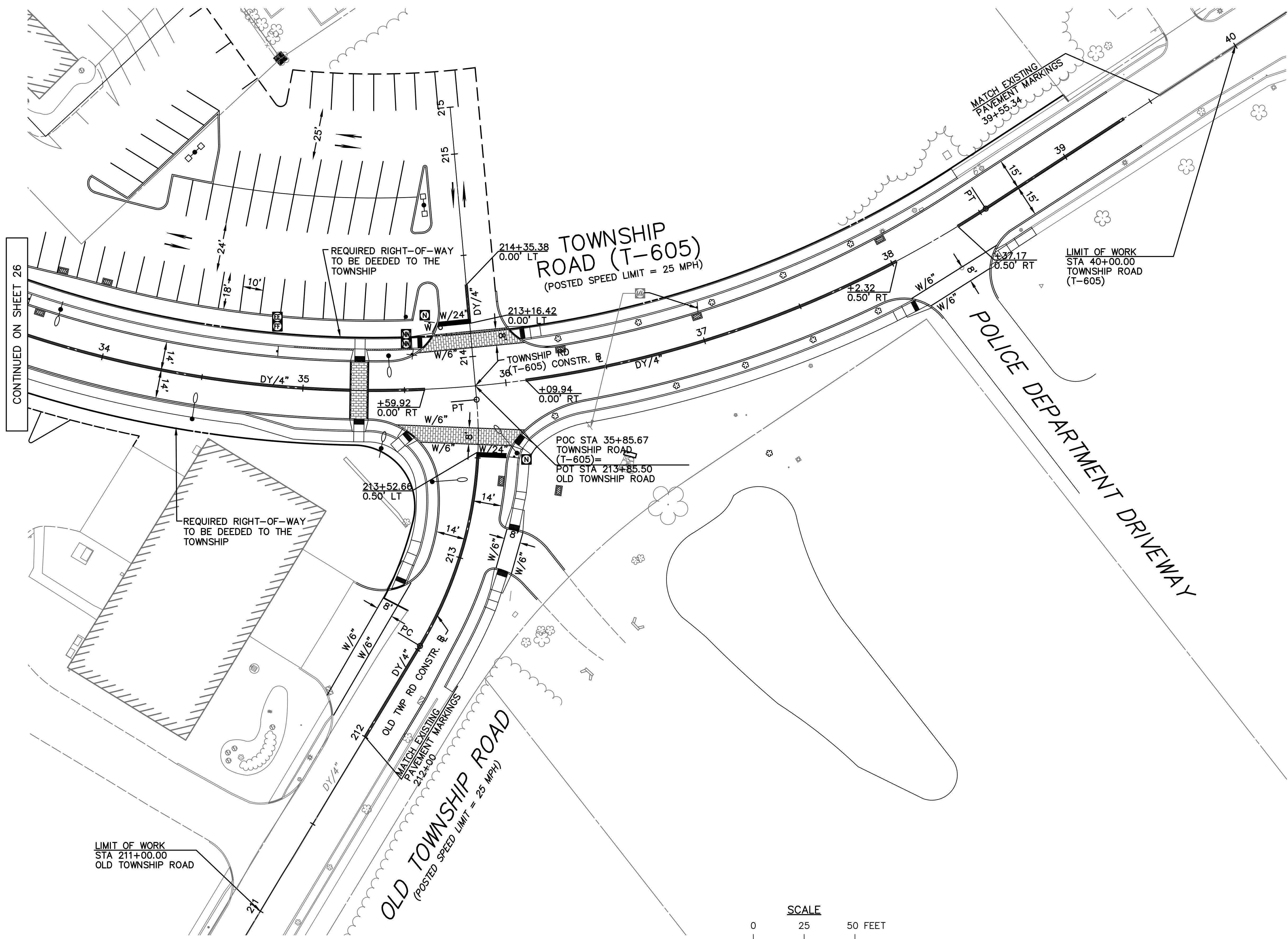
NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

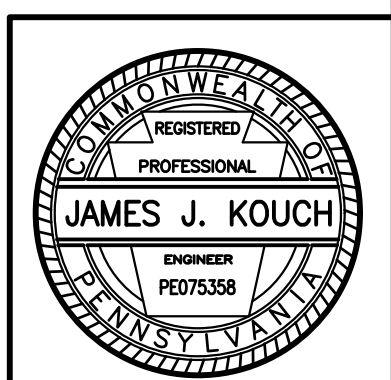
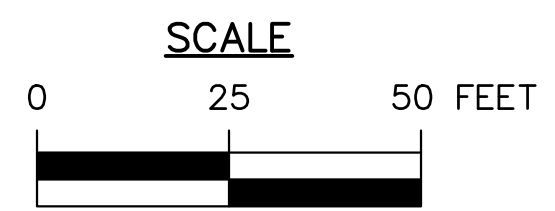
PAVEMENT MARKING PLAN



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	28 OF 94
NORTHAMPTON TOWNSHIP				
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CONTINUED ON SHEET 26



425 COMMERCE DRIVE
SUITE 200
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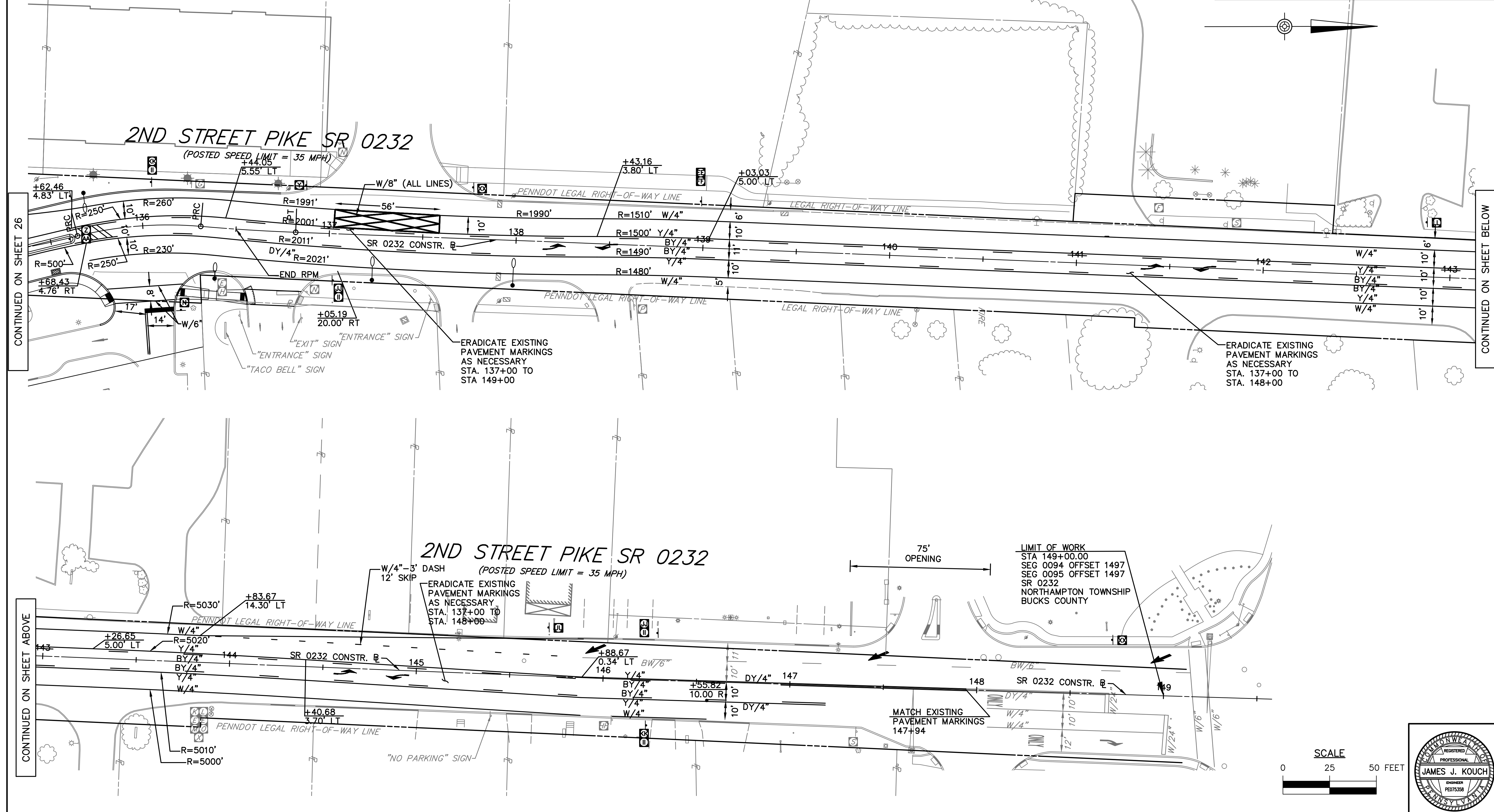
NORTHAMPTON TOWNSHIP

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BUCKS COUNTY

PAVEMENT MARKING PLAN

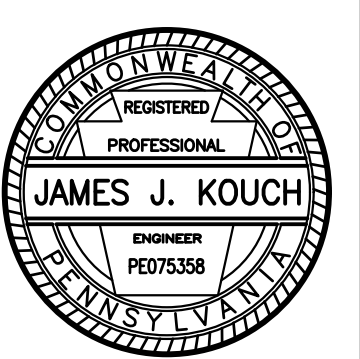
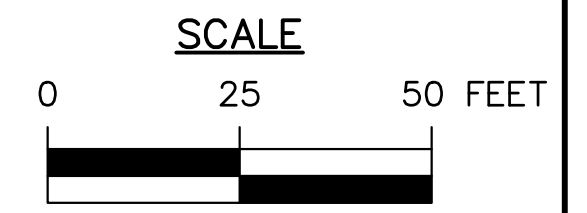
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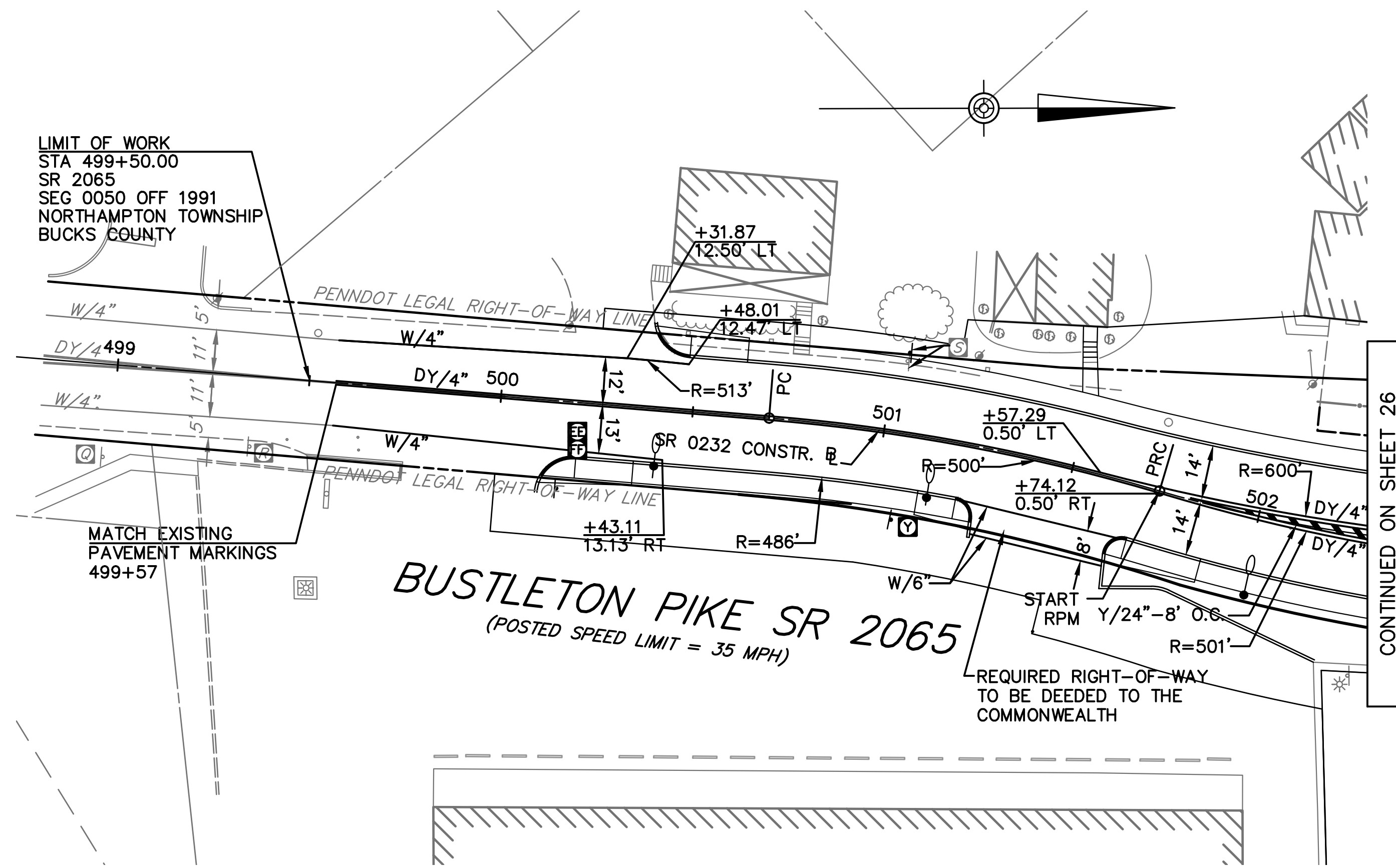
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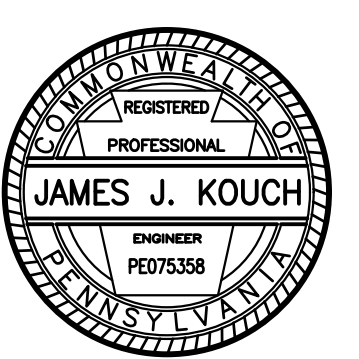
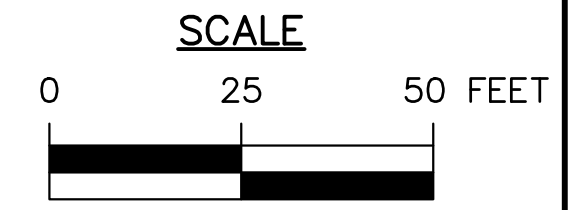
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	30 OF 94
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3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



CONTINUED ON SHEET 26



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
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DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD

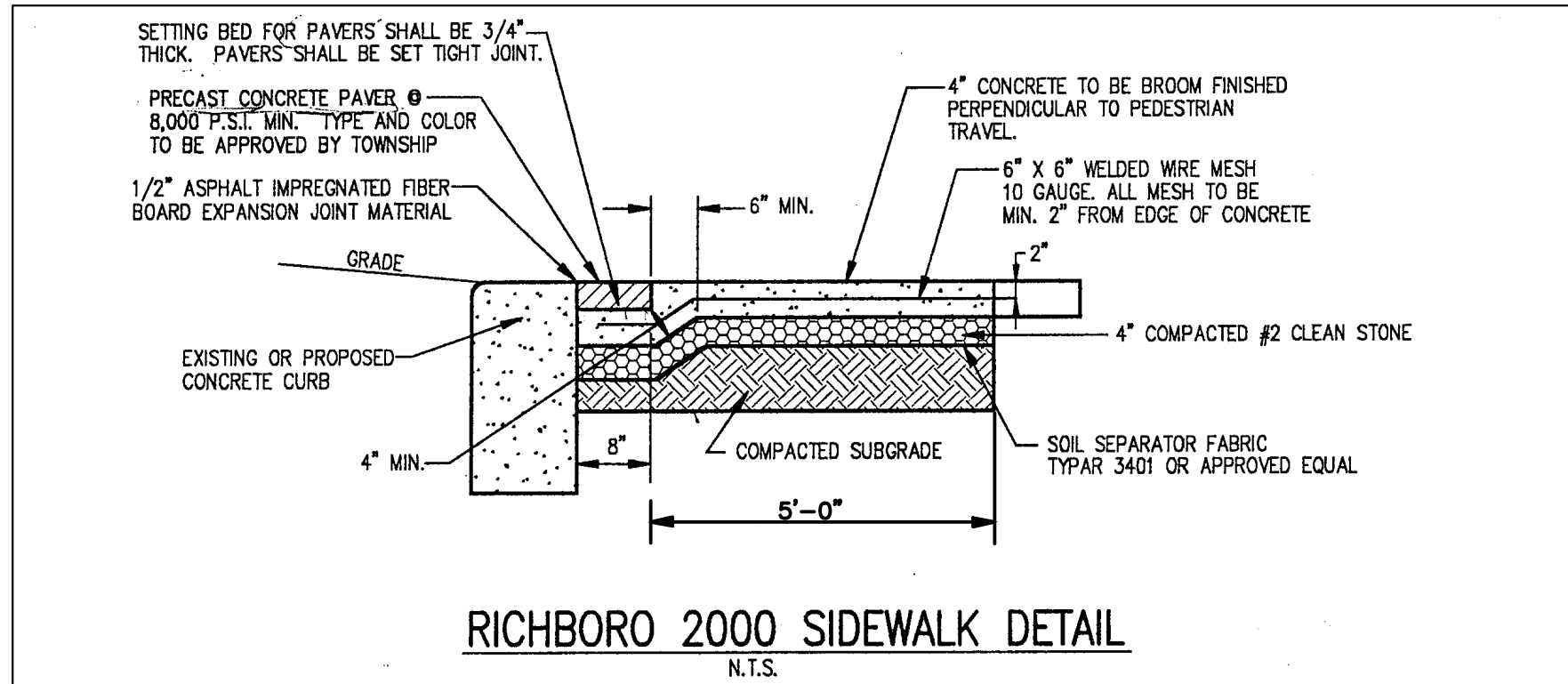
JOB NO: 816506.2A
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DATE: 5/16/18

NORTHAMPTON TOWNSHIP
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(215) 357-6800

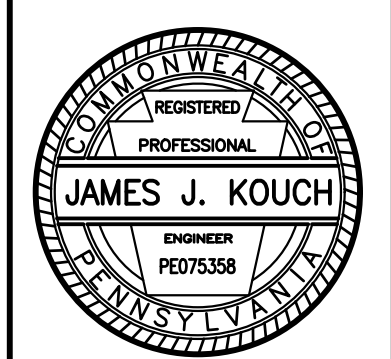
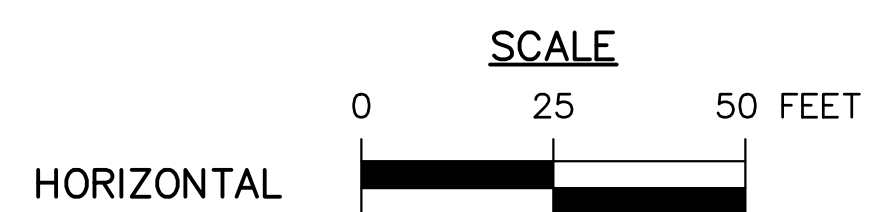
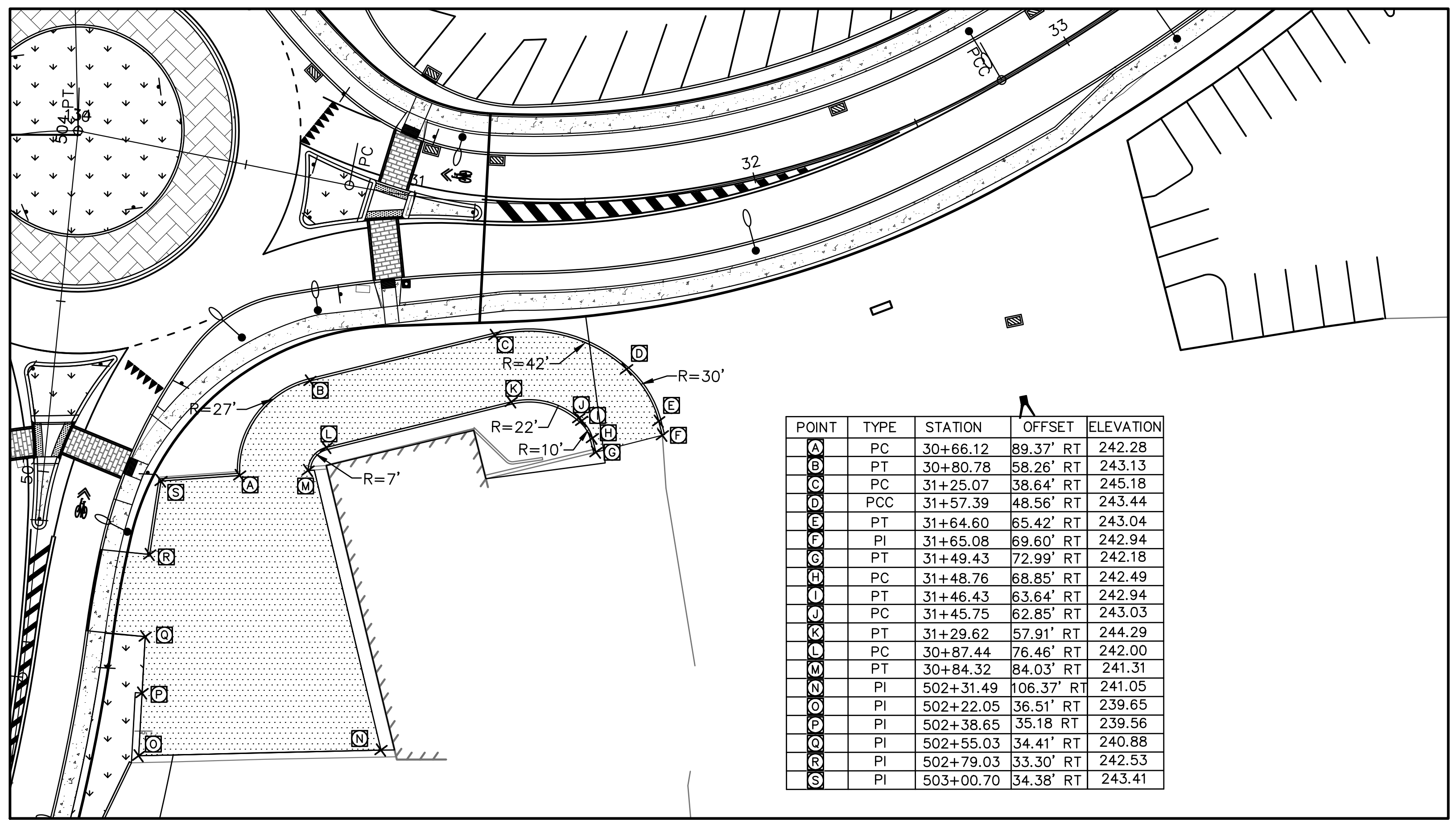
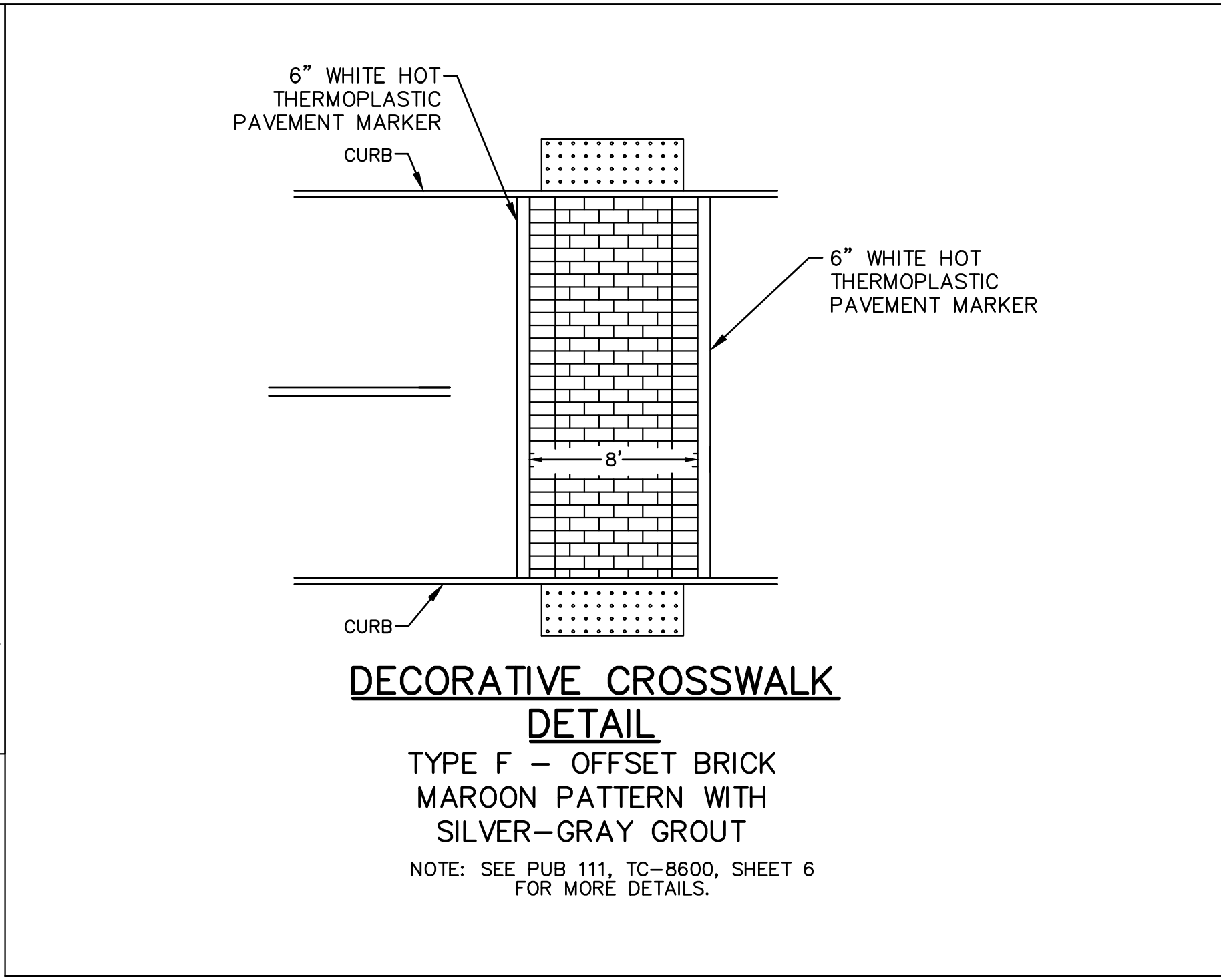
RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

PAVEMENT MARKING PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	31 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



- NOTES:**
- EXPANSION JOINTS ARE TO BE LOCATED EVERY 25' AND CONTRACTION JOINTS ARE TO BE LOCATED EVERY 5'.
 - EXPANSION JOINTS:
1/2" EXPANSION JOINT, ASPHALT IMPREGNATED FIBERBOARD.
 - CONTRACTION JOINT:
CONTRACTION JOINT W/ 1/2" X 3/4" TOOLED JOINT WITH 1/4" RADIUS TOOLED EDGE.
 - PAVERS TO BE WET LAID W/ LATEX MORTAR ADDITIVE AFTER CONCRETE WALK AND CURB HAVE BEEN FORMED, POURED, AND CURED. ALLOW FOR A 3/4" SETTING BED. PAVERS ARE TO BE LAID TIGHT JOINT AND TAMPED INTO PLACE. CLEAN SAND SHALL BE SWEEP INTO JOINTS OF PAVERS.
 - DRIVEWAY APRONS ARE TO HAVE 6" OF CONCRETE W/ 10 GAUGE 6" X 6" WELDED WIRE MESH, 2" CLEAR ON ALL SIDES. 6" OF #2 CLEAN STONE COMPACTED AS REQ'D. UNDER ALL DRIVEWAY APRONS. NO PAVERS SHALL BE USED IN DRIVEWAY APRONS.



TRAFFIC CONTROL GENERAL NOTES

- FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES. MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH METHODS INDICATED ON THESE DRAWINGS AND THE FOLLOWING:
 - PENNDOT PUBLICATION 35;
 - PENNDOT PUBLICATION 46;
 - PENNDOT PUBLICATION 72M;
 - PENNDOT PUBLICATION 111;
 - PENNDOT PUBLICATION 212;
 - PENNDOT PUBLICATION 213;
 - PENNDOT PUBLICATION 236;
 - PENNDOT PUBLICATION 408;
 - MUTCD, CURRENT EDITION
- MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE FIGURES PATA 101, 102, 107, 109A, 121, 122, 126A, 126B, AND 201A IN THE CURRENT PENNDOT PUBLICATION 213, "TEMPORARY TRAFFIC CONTROL GUIDELINES".
- NO TRAFFIC RESTRICTIONS OR LANE CLOSURES ARE PERMITTED BETWEEN 6:00 AM AND 9:00 AM AND BETWEEN 3:00 PM AND 6:00 PM MONDAYS THROUGH FRIDAYS OR ON LEGAL HOLIDAYS AND WEEKENDS ASSOCIATED WITH LEGAL HOLIDAYS. ALL RESTRICTIONS AND CLOSURES ARE TO BE REMOVED BY NOON ON THE DAY PRIOR TO THE LEGAL HOLIDAY.
- ALL DISTANCES MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- REMOVE ALL SHORT TERM WORK ZONE TRAFFIC CONTROL SIGNING UPON COMPLETION OF THAT DAYS' WORK PERIOD.
- ALL CHANNELIZING DEVICES, BARRICADES AND SIGNS SHALL HAVE TYPE III OR BETTER PRISMATIC RETROREFLECTIVE SHEETING. SHEETING SHALL BE APPROVED AND LISTED IN PENNDOT PUBLICATION 35 (BULLETIN 15).
- PROTECT ANY EXCAVATING OBSTRUCTIONS OR CONSTRUCTION WORK, SO AS NOT TO EXPOSE PEDESTRIANS TO HAZARDS.
- THE CONTRACTOR MUST NOTIFY THE DISTRICT 6-0 PRESS OFFICE AT (610) 205-6800 TWO (2) WEEKS IN ADVANCE OF ANY SIGNIFICANT LANE CLOSURES OR DETOURS.
- DROPOFFS CREATED BY CONSTRUCTION OPERATIONS SHALL BE TREATED CONSISTENT WITH PUBLICATION 408, SECTION 901.3(J).
- THIS WORK CONSISTS OF THE MAINTENANCE AND PROTECTION OF TRAFFIC AND THE PROTECTION OF THE PUBLIC WHEN APPROACHING AND DEPARTING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.
- COVER OR REMOVE ALL CONFLICTING SIGNS AND ERADICATE ALL CONFLICTING PAVEMENT MARKINGS.
- PERMITTEE SHALL NOTIFY EMERGENCY AUTHORITIES (E.G. POLICE, FIRE, MEDICAL), AFFECTED BUSINESSES, SCHOOL DISTRICT(S), THE GENERAL PUBLIC, THE DISTRICT PERMIT MANAGER AND THE DISTRICT APRAS COORDINATOR AT LEAST FOURTEEN DAYS PRIOR TO ANY SIGNIFICANT TRAFFIC IMPACTS (E.G. LATERAL WIDTH RESTRICTIONS LESS THAN 16 FEET, DETOURS).
- DRIVEWAYS WILL BE KEPT ACCESSIBLE AT ALL TIMES. LOCATE ALL SIGNS SO THAT SIGHT DISTANCES WILL NOT BE OBSTRUCTED AT DRIVEWAYS AND LOCAL ROADS.
- MOUNT ALL LONG-TERM ADVANCE WARNING SIGNS ON TYPE III BARRICADES UNLESS OTHERWISE NOTED OR INSTRUCTED BY DISTRICT OFFICE.
- RESTRICTING TRAFFIC FLOW WITHIN THE WORK AREA SHALL BE MINIMIZED TO PREVENT TRAFFIC CONGESTION AND UNSAFE TRAFFIC CONDITIONS.
- NOTIFY THE LOCAL MUNICIPALITY WHERE SIGNALIZED INTERSECTIONS FALL WITHIN THE WORK ZONE. DO NOT FLAG A SIGNALIZED INTERSECTION WITHOUT THE MUNICIPALITY PLACING THE SIGNAL ON FLASH.
- THE CONTRACTOR SHALL LIMIT DISRUPTION TO PEDESTRIAN FACILITIES DURING CONSTRUCTION AND SHALL PROVIDE ALTERNATIVE PEDESTRIAN ROUTES WHEN EXTENDED DISRUPTION TO THE PEDESTRIAN FACILITIES CANNOT BE AVOIDED.
- ALL WORKERS SHALL FOLLOW THE REGULATIONS SET FORTH IN TITLE 23 OF THE CODE OF FEDERAL REGULATIONS (CFR) PART 634, EFFECTIVE NOVEMBER 24, 2008 IN REGARD TO THE WORKER'S SAFETY APPAREL.
- NOTIFY THE DISTRICT 6-0 REGIONAL TRAFFIC MANAGEMENT CENTER (RTMC) 610-205-6934 FIFTEEN (15) MINUTES IN ADVANCE OF ANY PROPOSED LANE OR SHOULDER RESTRICTIONS, ROAD CLOSURE, OR ANY OPERATION IMPEDING THE FLOW OF TRAFFIC. NOTIFY THE RTMC WHEN THE ROAD IS RESTORED TO NORMAL OPERATION.
- MPT FIGURE PATA 102 MAY ONLY BE UTILIZED IF THERE IS ADEQUATE PAVEMENT WIDTH AND/OR SITE FRONTAGE AVAILABLE TO MAINTAIN THE MINIMUM TRAVEL LANE WIDTHS (10'/11'). USE OF MPT FIGURE PATA 102 IS AT THE DISCRETION OF A PENNDOT FIELD REPRESENTATIVE.
- REMOVE THESE DEVICES IMMEDIATELY UPON COMPLETION OF THE WORK. PENNDOT WILL REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY DEPARTMENT FORCES.
- PERMITTEE MUST ARRANGE FOR INSPECTION OF ALL TRAFFIC CONTROL DEVICES PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL COMPLY WITH ACT 229 OF DECEMBER 2002 DURING CONSTRUCTION ACTIVITIES WITHIN PENNDOT'S RIGHT-OF-WAY.

SEQUENCE OF CONSTRUCTION

COORDINATE WITH UTILITY COMPANIES FOR ALL UTILITY RELOCATIONS/INSTALLATION (I.E. UTILITY POLES, FIRE HYDRANTS, WATER AND GAS LINES, ETC.)

STAGE 1

TOWNSHIP ROAD (NEW ROADWAY), BUSTLETON PIKE (SR 2065) STA. 500+00 TO STA. 504+00 AND SECOND STREET PIKE (SR 0232) STA. 134+00 TO STA. 136+50: PERFORM ALL PROPOSED ROAD WORK INCLUDING EXCAVATION, GRADING, INSTALLATION OF CURB, MOUNTABLE CURB, SPLITTER ISLANDS, STORMWATER IMPROVEMENTS, CURB RAMPS, BITUMINOUS PAVEMENT, ETC. TO MAINTAIN CLOSURE, INSTALL "ROAD CLOSED" SIGNS ON TYPE III BARRICADES AT EACH END OF THE NEW ROADWAY. CONSTRUCT EAST SHOULDER OF BUSTLETON PIKE (SR 2065) AND EASTERN NORTHBOUND LANE OF SECOND STREET PIKE (SR 0232). MAINTAIN THE EXISTING TRAFFIC AND SIGNAL ALONG SECOND STREET PIKE (SR 0232) AND BUSTLETON PIKE (SR 2065). CONSTRUCT FUNERAL HOME DRIVEWAY (STA. 33+25 LT) UNDER SHORT TERM CONDITIONS. MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES. SEE STAGE 1 LONG TERM TRAFFIC CONTROL PLAN.

NOTE: FUNERAL HOME USES RESCUE SQUAD PARKING LOT FOR FUNERAL SERVICES. BUILD NEW PARKING LOTS FIRST WHILE MAINTAINING VEHICULAR AND PEDESTRIAN ACCESS TO RESCUE SQUAD PARKING. USE TEMPORARY PAVING AS NECESSARY. AFTER NEW PARKING LOTS ARE COMPLETED, REMOVE ACCESS TO RESCUE SQUAD PARKING LOT AND CONSTRUCT TOWNSHIP ROAD.

NOTE: CONSTRUCT ACCESS ROAD BEHIND GELT PROPERTY PRIOR TO BEGINNING WORK ON GELT DRIVEWAY; CONSTRUCT GELT DRIVEWAY IMMEDIATELY AFTER ACCESS ROAD IS FINALIZED. ACCESS TO GELT PROPERTY DURING DRIVEWAY CONSTRUCTION TO BE PROVIDED VIA THE ACCESS ROAD FOR PEDESTRIAN TRAFFIC; VEHICULAR TRAFFIC TO USE SOUTHERN PARKING AREAS ON BOTH SIDES OF BUILDING.

STAGE 2

BUSTLETON PIKE (SR 2065) (UNDER DETOUR): PERFORM ALL PROPOSED ROAD WORK INCLUDING EXCAVATION, GRADING, INSTALLATION OF CURB, STORMWATER IMPROVEMENTS, CURB RAMPS, BITUMINOUS PAVEMENT UP TO WEARING COURSE, ETC. CONSTRUCT SMITH DRIVEWAY IMPROVEMENTS UNDER SHORT TERM CONDITIONS AND MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES. SEE STAGE 2 LONG TERM TRAFFIC CONTROL PLAN.

SECOND STREET PIKE (SR 0232) - STA. 131+00 RT TO STA 134+00 RT: PERFORM ALL PROPOSED WORK INCLUDING EXCAVATION, GRADING, INSTALLATION OF CURB, CURB RAMPS, BITUMINOUS PAVEMENT UP TO WEARING COURSE, ETC. MPT FIGURES 101, 102, 107, AND 201A. MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.

SECOND STREET PIKE (SR 0232) - STA. 134+00 RT TO STA 137+00 RT: TRANSITION TWO SOUTHBOUND LANES TO ONE SOUTHBOUND LANE. PROVIDE TWO-WAY TRAFFIC ON NORTHERN LEG OF SECOND STREET PIKE (SR 0232). PERFORM ALL PROPOSED WORK INCLUDING EXCAVATION, GRADING, BITUMINOUS PAVEMENT UP TO WEARING COURSE, ETC., IN ACCORDANCE WITH MPT FIGURES 101, 102, 107, 126A, 126B, AND 20A1. MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.

SECOND STREET PIKE (SR 0232) TO OPERATE WITHOUT SIGNAL CONTROL. SEE STAGE 2 LONG TERM TRAFFIC CONTROL PLAN.

STAGE 3

REMOVE BUSTLETON PIKE DETOUR

SECOND STREET PIKE (SR 0232) (UNDER DETOUR) - STA. 131+00 LT TO STA. 137+00 LT: PERFORM ALL PROPOSED ROAD WORK INCLUDING EXCAVATION, GRADING, INSTALLATION OF CURB, STORMWATER IMPROVEMENTS, CURB RAMPS, BITUMINOUS PAVEMENT WIDENING UP TO WEARING COURSE, TRAFFIC SIGNAL INSTALLATIONS, ETC. BUSTLETON PIKE (SR 2065) AND THE EASTERN SIDE OF THE NORTH LEG OF SECOND STREET PIKE (SR 0232) TO OPERATE WITH ONE LANE IN EACH DIRECTION WITHOUT SIGNAL CONTROL. MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES. SEE STAGE 3 LONG TERM TRAFFIC CONTROL PLAN.

UPON COMPLETION OF STAGE 3 WORK, OPEN WESTERN LEG OF SECOND STREET PIKE (SR 0232). PLACE TRUCK DETOUR FOR PROPOSED PROJECT IN ORDER TO COMPLETE THE CONSTRUCTION OF THE SPLITTER ISLANDS AND CURBING AND INSTALLATION OF THE ROUNDABOUT SIGNAGE IN ACCORDANCE WITH MPT FIGURES 102, 107, 109A, 121, 122, AND 201A.

STAGE 4

REMOVE SECOND STREET PIKE DETOUR

TOWNSHIP ROAD (T-605) (UNDER DETOUR) - PERFORM ALL PROPOSED ROAD WORK INCLUDING EXCAVATION, GRADING, INSTALLATION OF CURB, STORMWATER IMPROVEMENTS, CURB RAMPS, BITUMINOUS PAVEMENT UP TO WEARING COURSE, UTILIZE BARRIERS TO KEEP NEWLY CONSTRUCTED TOWNSHIP ROAD LEG OF ROUNDABOUT CLOSED. SEE STAGE 4 LONG TERM TRAFFIC CONTROL PLAN. MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.

STAGE 5

REMOVE TOWNSHIP ROAD DETOUR

SECOND STREET PIKE (SR 0232) - STA. 130+00 TO STA. 137+00: PAVE FINAL WEARING COURSE FOR ENTIRE WIDTH OF ROADWAY IN ACCORDANCE WITH MPT FIGURES 107, 109A, 121, 122, 126A, AND 126B.

BUSTLETON PIKE (SR 2065) - STA. 500+00 TO STA. 504+00: PAVE FINAL WEARING COURSE FOR ENTIRE WIDTH OF ROADWAY IN ACCORDANCE WITH MPT FIGURES 107, 109A, 121, 122, 126A, AND 126B.

STAGE 6

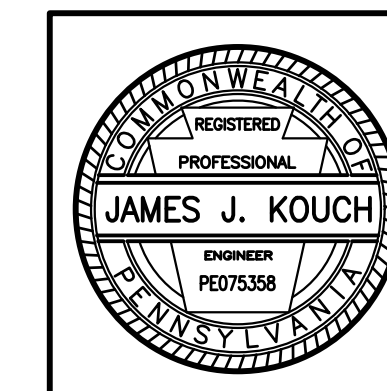
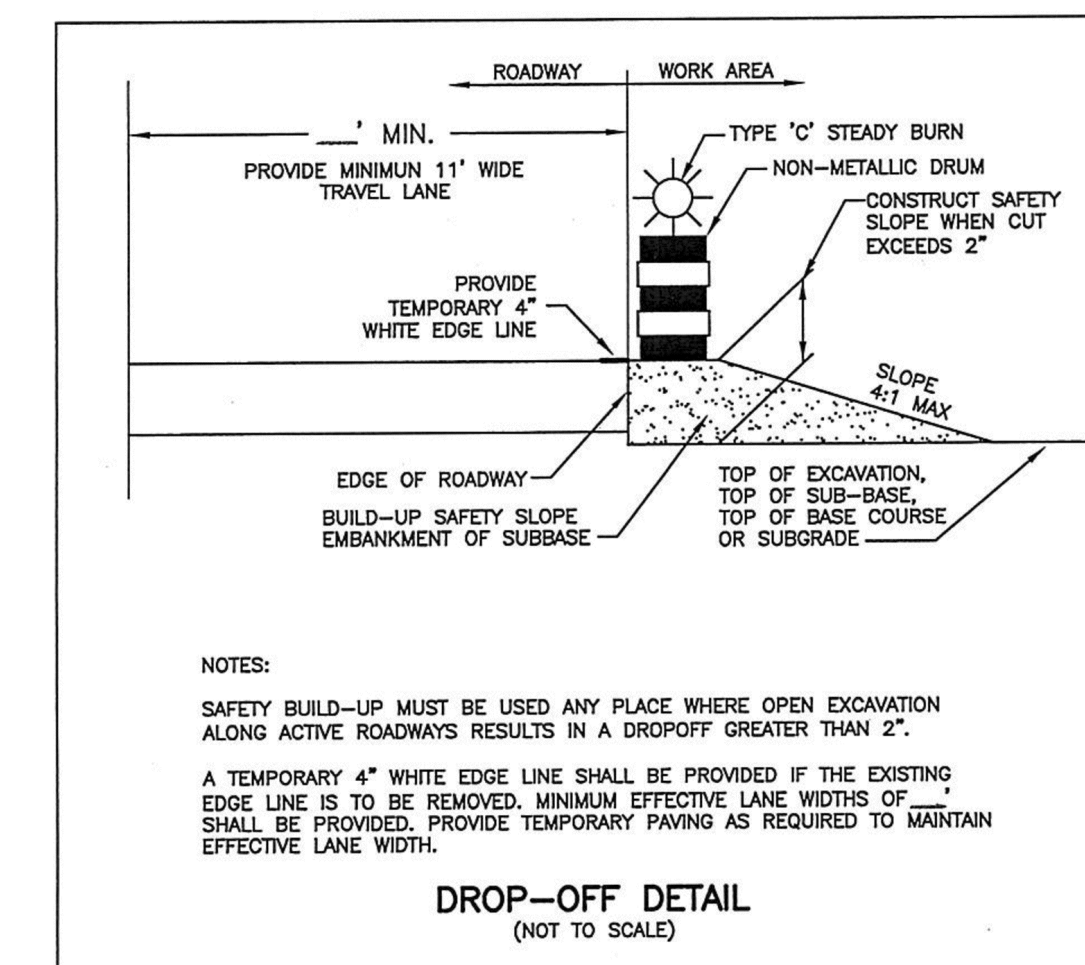
SECOND STREET (SR 0232) - STA. 137+00 TO STA. 147+00: ERADICATE EXISTING PAVEMENT MARKINGS AS NECESSARY AS INDICATED ON THE PLANS IN ACCORDANCE WITH MPT FIGURES 102, 121, AND 122.

PROJECT WIDE - PLACE ALL FINAL PAVEMENT MARKINGS AND SIGNS PER THE PAVEMENT MARKING AND SIGNING PLANS IN ACCORDANCE WITH MPT FIGURES 101, 121, 122, 126A, 126B, AND 201A.

REMOVE TOWNSHIP ROAD DETOUR AND ROAD CLOSED SIGNS ONCE ALL FINAL IMPROVEMENTS HAVE BEEN INSTALLED SO THAT THE ROADWAYS CAN BE OPENED AND OPERATE UNDER FINAL PROPOSED CONDITIONS.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	32 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

TYPE OF CONSTRUCTION	SELECTED MAINTENANCE OF TRAFFIC
TOWNSHIP ROAD (NEW ROADWAY) EXCAVATION AND ROADWAY CONSTRUCTION INCLUDING CURB, DRAINAGE, CURB RAMP INSTALLATION	PATA FIGURES 101, 102, 107, 109A, 121, 126A, 126B AND 201A
BUSTLETON PIKE (SR 2065) EXCAVATION, ROADWAY WIDENING, CURB, ISLAND, AND DRAINAGE INSTALLATION, CONSTRUCTION OF CURB RAMPS, TRAFFIC SIGNAL INSTALLATION	PATA FIGURES 101, 102, 109A, 121, AND 201A
SECOND STREET PIKE (SR 0232) EXCAVATION, ROADWAY WIDENING, CURB, ISLAND, AND DRAINAGE INSTALLATION, CONSTRUCTION OF CURB RAMPS, TRAFFIC SIGNAL INSTALLATION	PATA FIGURES 101, 102, 107, 109A, 121, 122, 126A, 126B, AND 201A
BUSTLETON PIKE (SR 2065) AND SECOND STREET PIKE (SR 0232) MILLING OPERATIONS	PATA FIGURES 107, 109A, 121, 122, 126A, AND 126B
SECOND STREET PIKE (SR 0232) ERADICATION OF EXISTING PAVEMENT MARKINGS	PATA FIGURE 121, 122
BUSTLETON PIKE (SR 2065) AND SECOND STREET PIKE (SR 0232) PAVEMENT MARKINGS AND SIGNS	PATA FIGURES 101, 107, 109A, 121, 122, 126A, 126B, AND 201A



425 COMMERCE DRIVE
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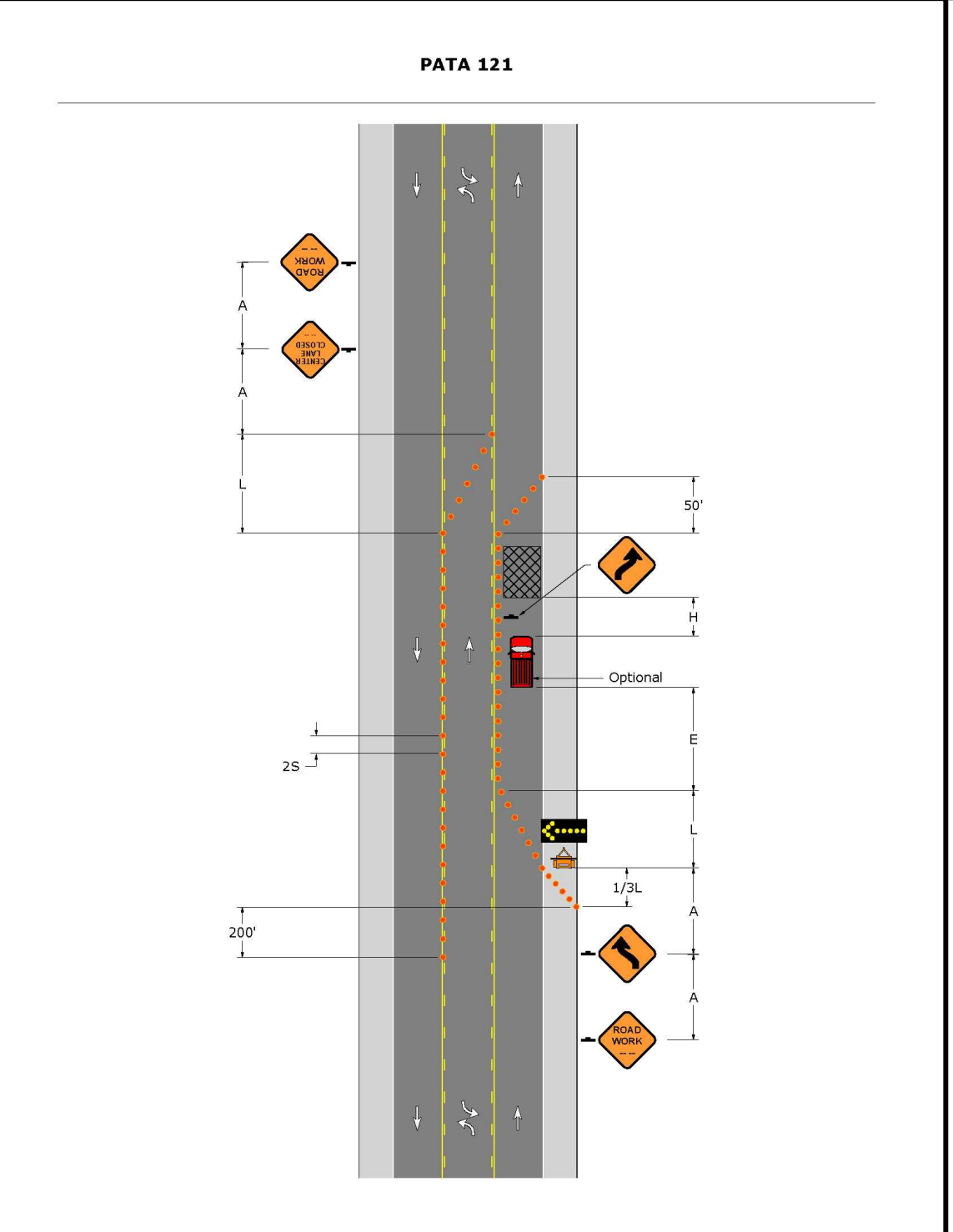
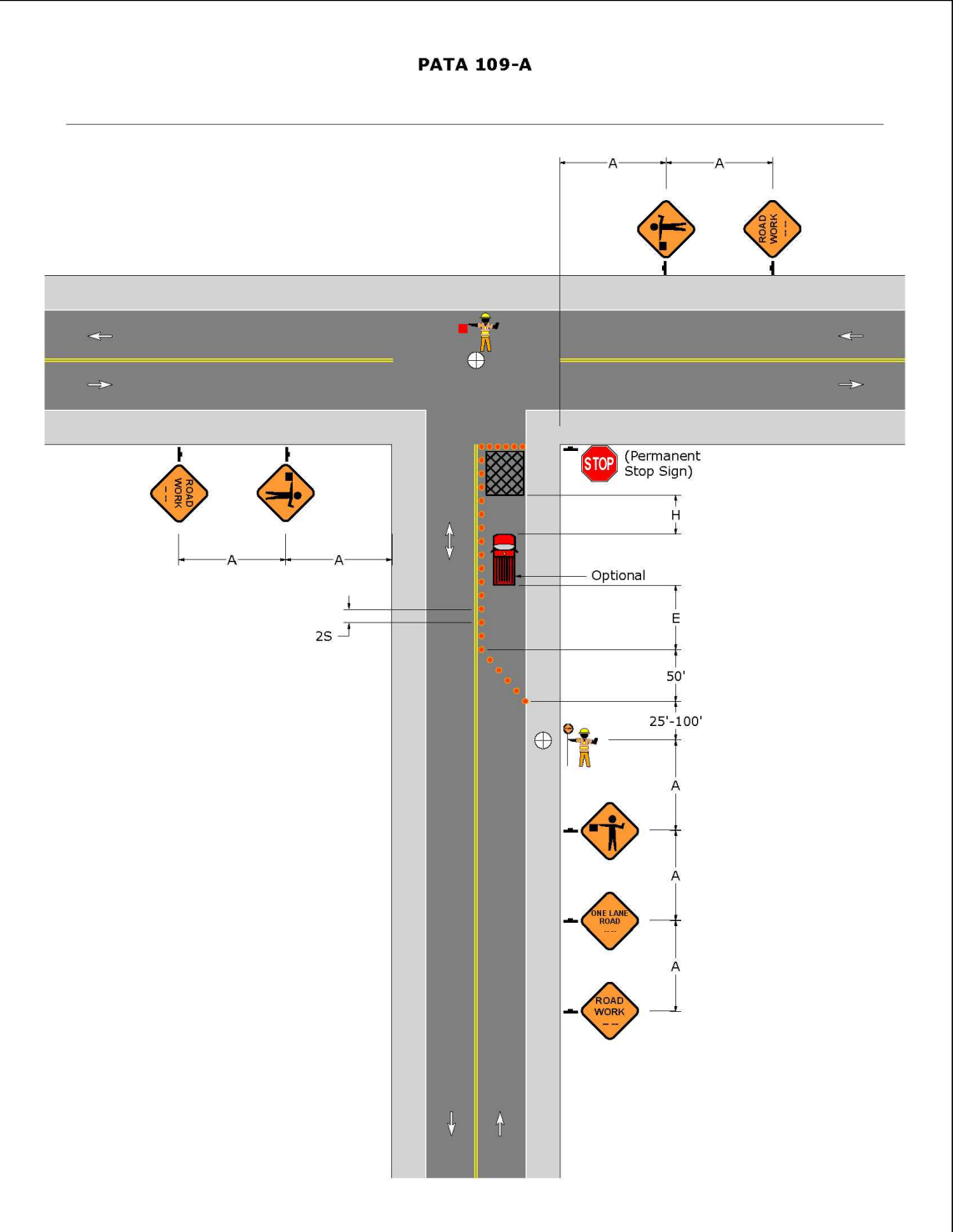
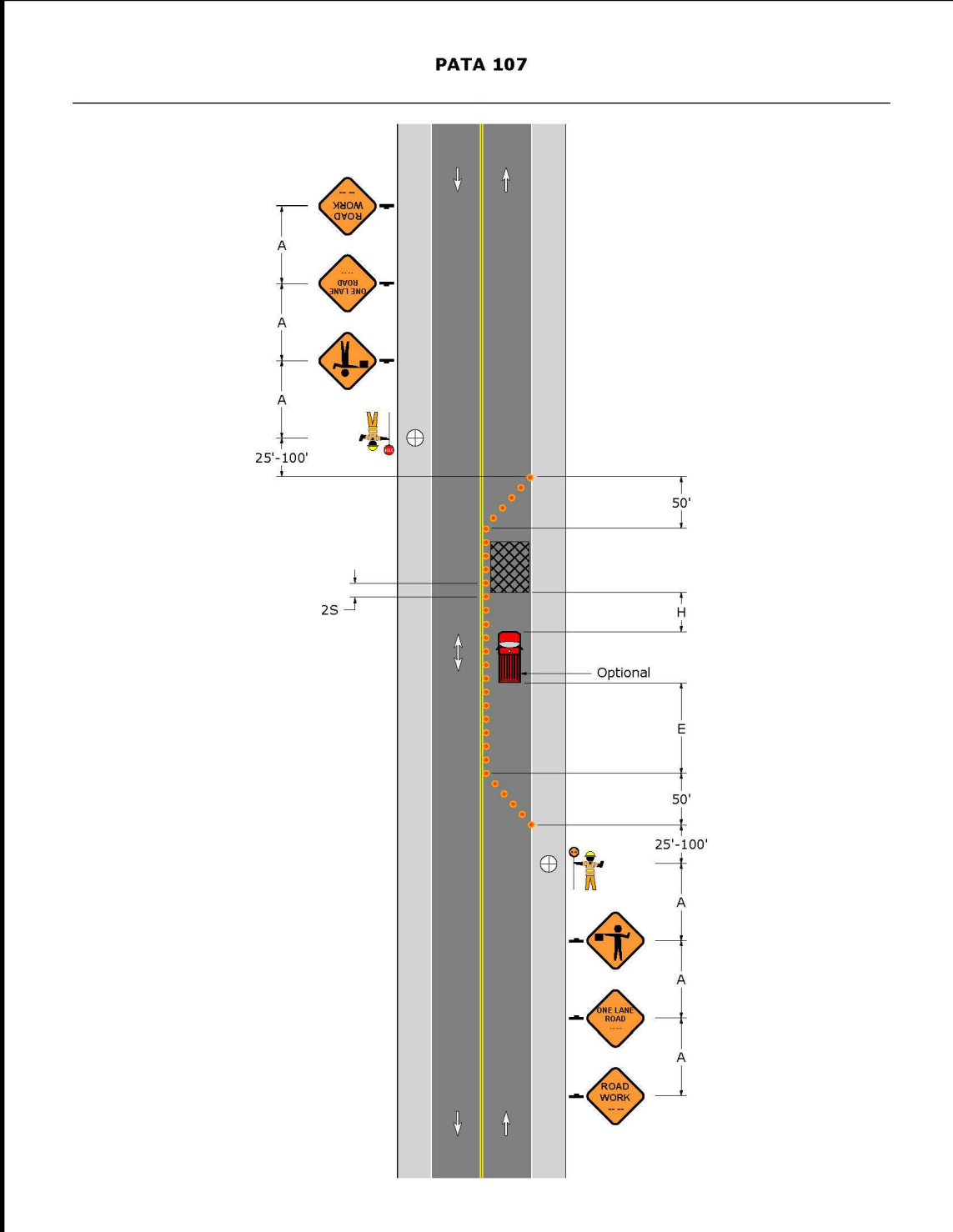
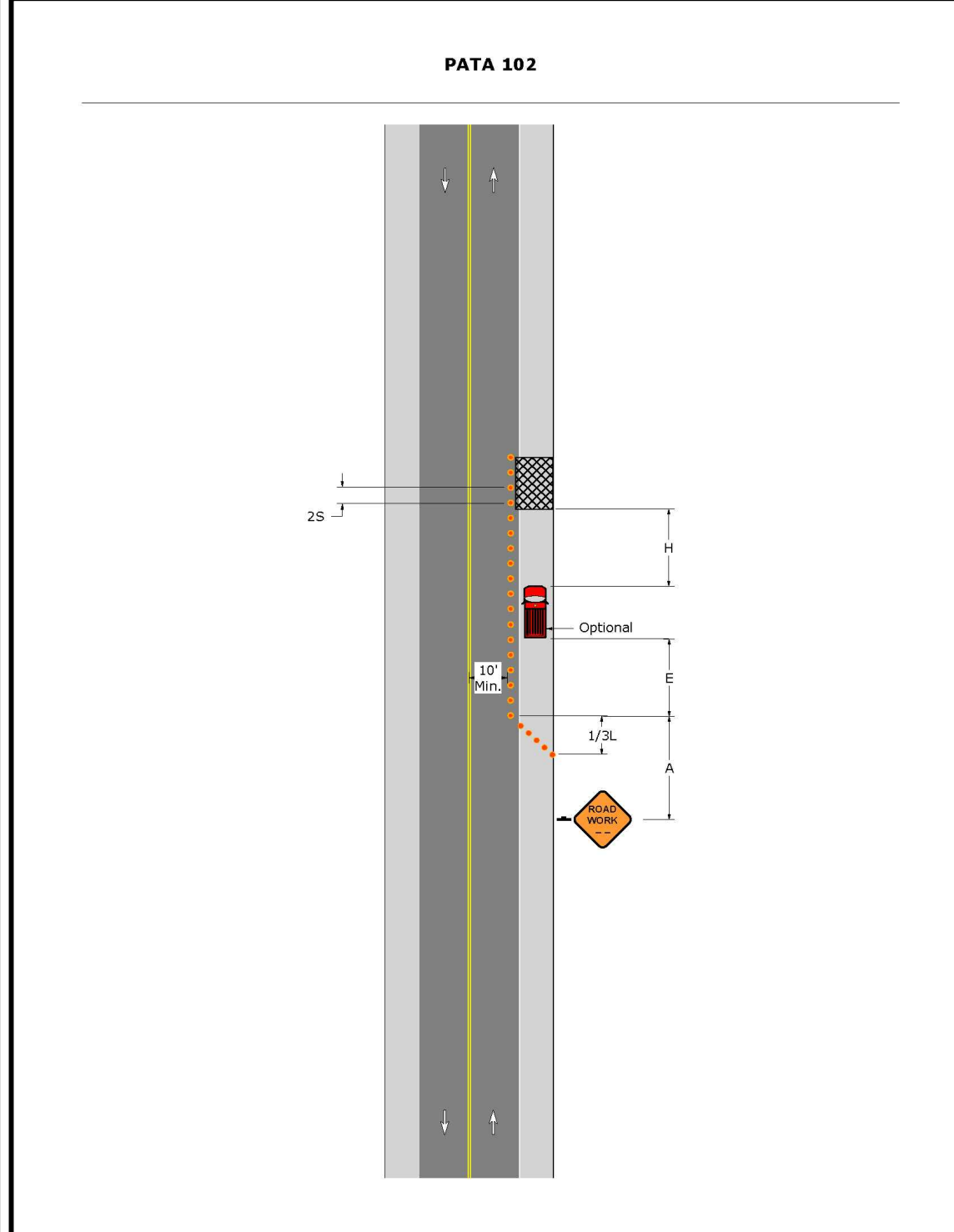
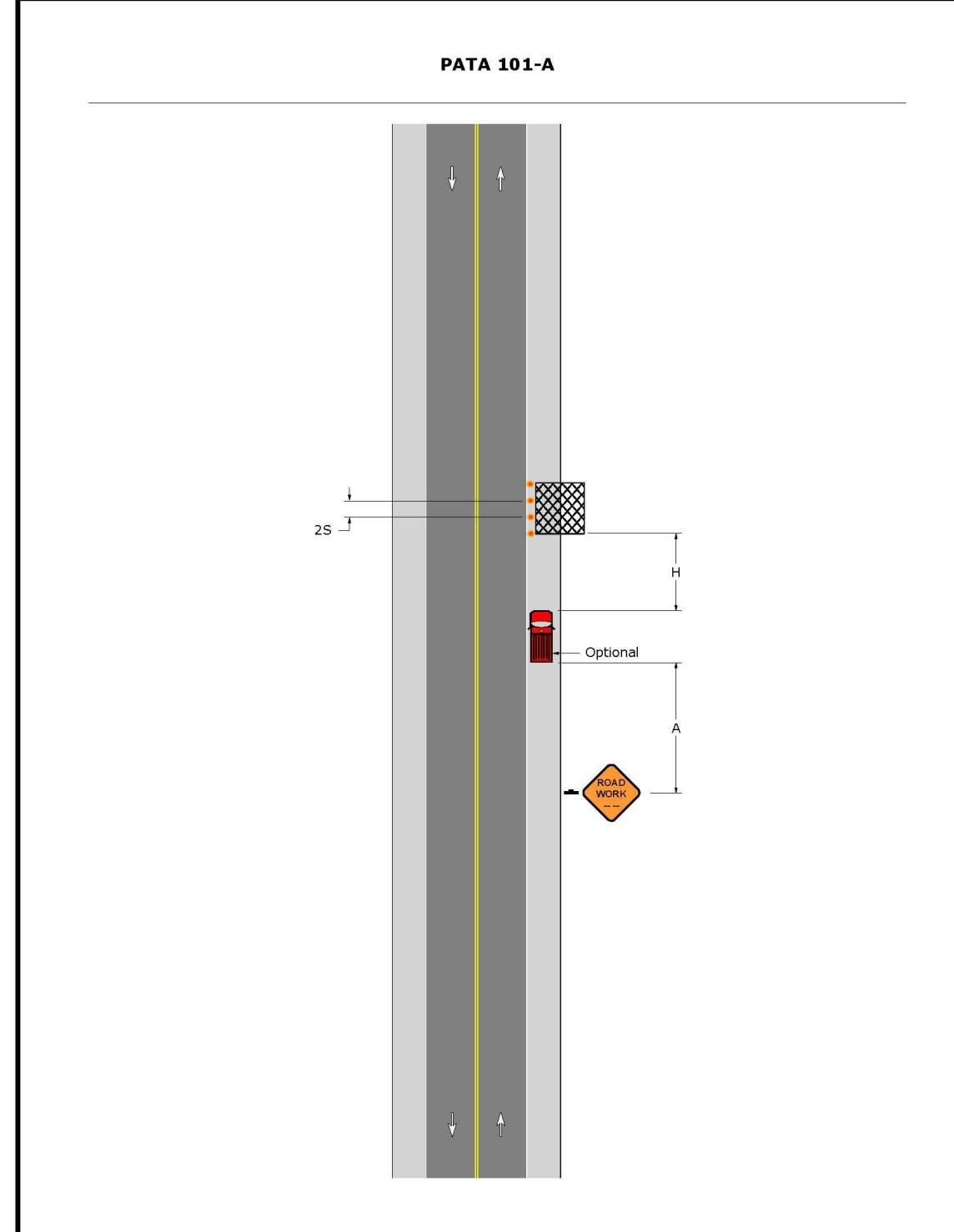
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DWG: 506MPT01
DATE: 5/16/18

NORTHAMPTON TOWNSHIP

55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
MONTGOMERY COUNTY

MAINTENANCE AND PROTECTION OF TRAFFIC



PATA 101-A

- The shadow vehicle and TTC devices are not required if the work space is outside the highway right-of-way, behind barrier, more than 2' behind curb, or 15' or more from the edge of the roadway.
- For operations of 60 minutes or less, all TTC devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
- When a shadow vehicle is not used, distance A is measured from the ROAD WORK sign.

Signs

W20-1

Speed S (MPH)	Channelizing Device Spacing 2S (Feet)	Sign Spacing A (Feet)		Roll Ahead Space H (Feet)
		Urban	Rural	
25	50	100-200	500-800	150
30	60	100-200	500-800	150
35	70	100-200	500-800	150
40	80	100-200	500-800	150
45	90	100-200	500-800	150
50	100	100-200	500-800	150
55	110	100-200	500-800	150

PATA 102

- For operations of 15 minutes or less:
 - The ROAD WORK sign is not required.
 - All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

Signs

W20-1

Speed S (MPH)	Channelizing Device Spacing 2S (Feet)	Sign Spacing A (Feet)		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban	Rural		
25	50	100-200	500-800	155	150
30	60	100-200	500-800	200	150
35	70	100-200	500-800	250	150
40	80	100-200	500-800	305	150
45	90	100-200	500-800	360	150
50	100	100-200	500-800	425	250
55	110	100-200	500-800	495	250

Speed (MPH)	Shoulder Taper: 1/3L		50' Per Lane Taper	
	Length (Feet)	Minimum Number Of Devices	Length (Feet)	Minimum Number Of Devices
25	45	6	50	6
30	60	6	50	6
35	85	6	50	6
40	110	6	50	6
45	180	6	50	6
50	200	6	50	6
55	220	6	50	6

PATA 107

- Flaggers shall be clearly visible to traffic for a minimum distance of E.
- For operations of 15 minutes or less:
 - The ROAD WORK, ONE LANE ROAD, and FLAGGER SYMBOL signs are not required.
 - All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

Signs

W20-1 W20-4 W20-7

Speed S (MPH)	Channelizing Device Spacing 2S (Feet)	Sign Spacing A (Feet)		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban	Rural		
25	50	100-200	500-800	155	150
30	60	100-200	500-800	200	150
35	70	100-200	500-800	250	150
40	80	100-200	500-800	305	150
45	90	100-200	500-800	360	150
50	100	100-200	500-800	425	250
55	110	100-200	500-800	495	250

Speed (MPH)	50' Per Lane Taper	
	Length (Feet)	Minimum Number Of Devices
25	50	6
30	50	6
35	50	6
40	50	6
45	50	6
50	50	6
55	50	6

PATA 109 (A Through L)

- PATA 109 drawings show work spaces on roads that approach and depart T-intersections with through-roads. Single-flagger or multi-flagger intersection control is illustrated for intersections with three types of permanent control:
 - One-Way Stop
 - All-Way Stop
 - Traffic Signal
- Flaggers shall be clearly visible to traffic for a minimum distance of E.
- For operations of 15 minutes or less:
 - The ROAD WORK, ONE LANE ROAD, and FLAGGER SYMBOL signs are not required.
 - All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

Signs

W20-1 W20-4 W20-7

Speed S (MPH)	Channelizing Device Spacing 2S (Feet)	Sign Spacing A (Feet)		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban	Rural		
25	50	100-200	500-800	155	150
30	60	100-200	500-800	200	150
35	70	100-200	500-800	250	150
40	80	100-200	500-800	305	150
45	90	100-200	500-800	360	150
50	100	100-200	500-800	425	250
55	110	100-200	500-800	495	250

Speed (MPH)	50' Per Lane Taper	
	Length (Feet)	Minimum Number Of Devices
25	50	6
30	50	6
35	50	6
40	50	6
45	50	6
50	50	6
55	50	6

PATA 121

- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

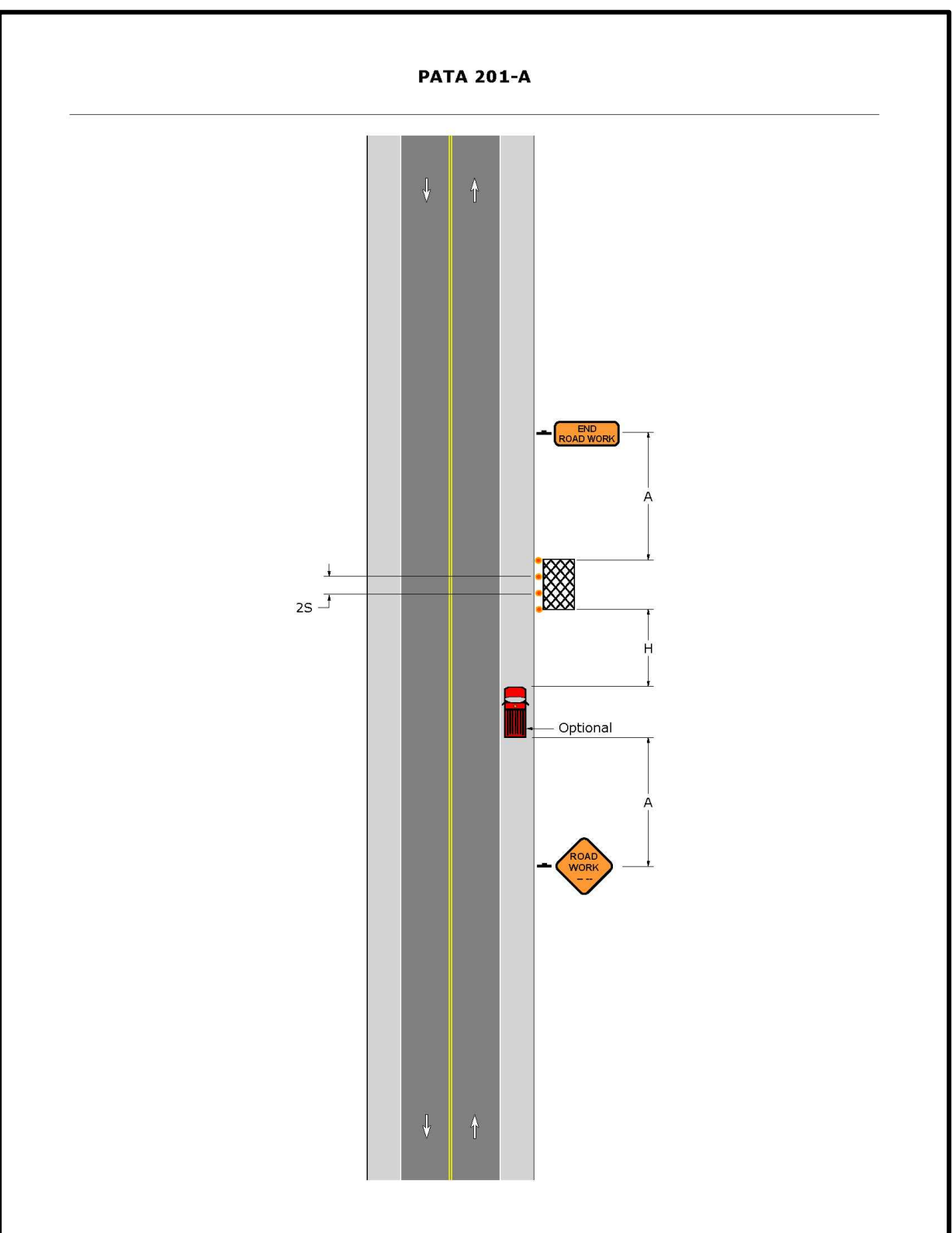
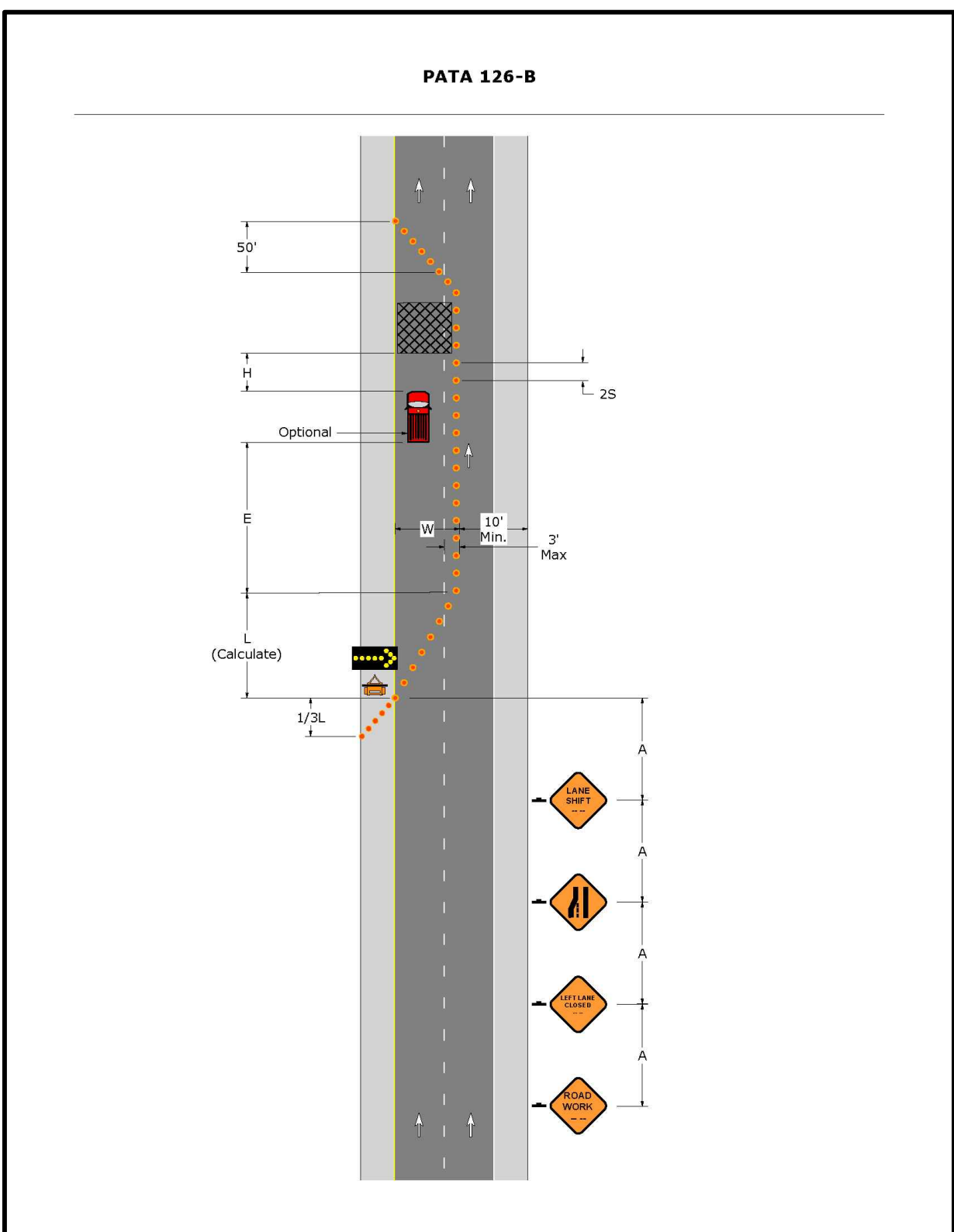
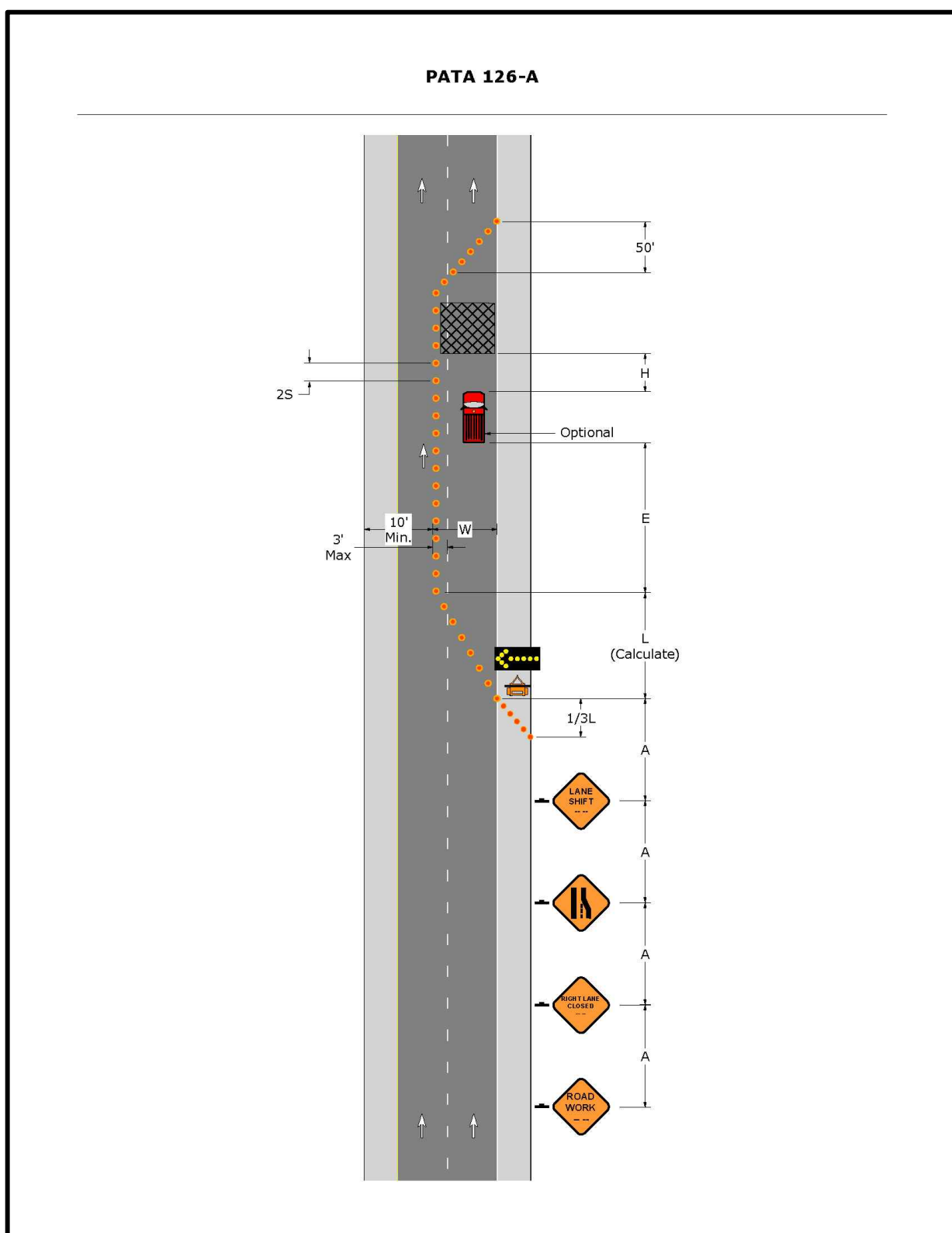
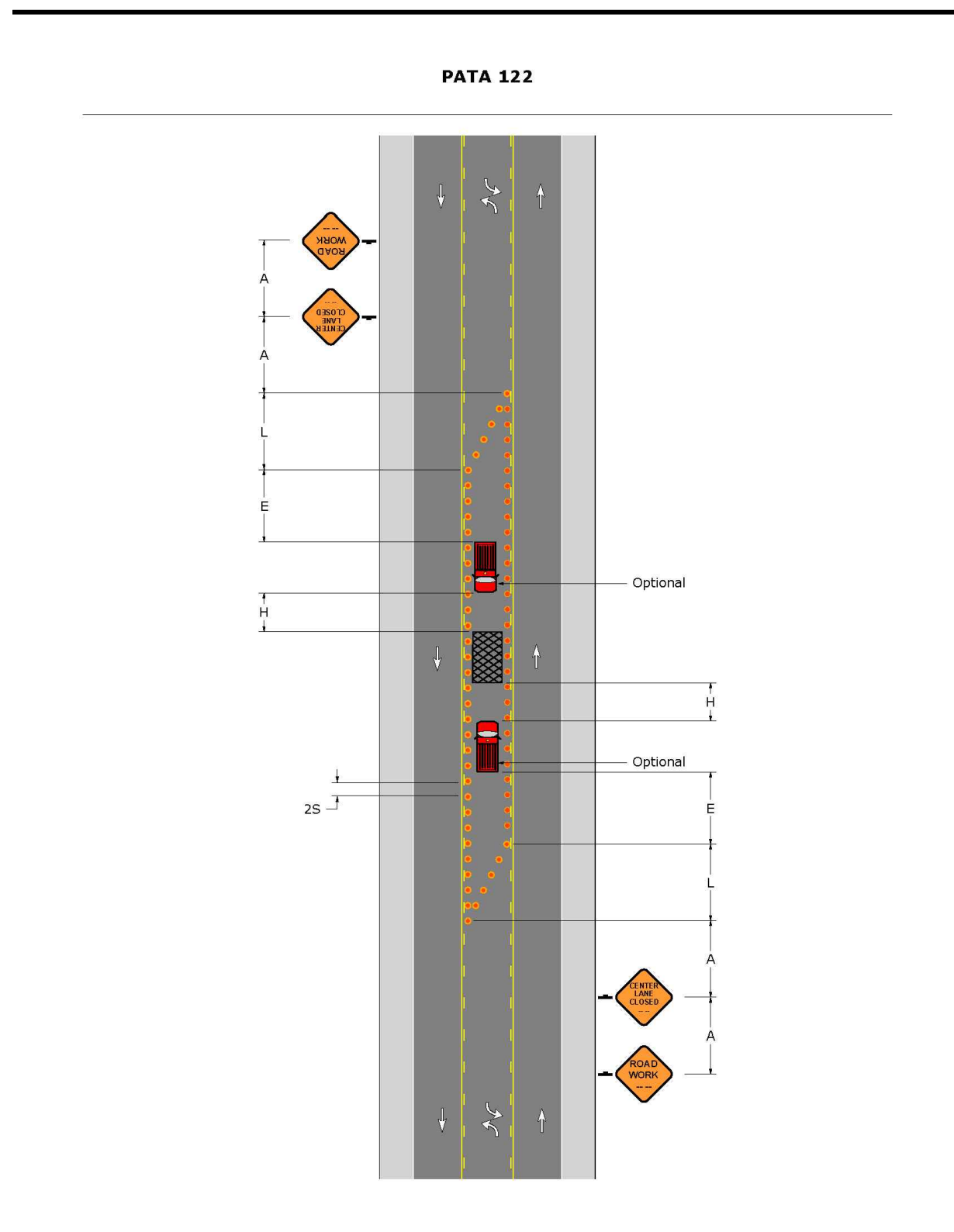
Signs

W20-1 W1-4L W1-4R W3-3

Speed S (MPH)	Channelizing Device Spacing 2S (Feet)	Sign Spacing A (Feet)		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban	Rural		
25	50	100-200	500-800	155	150
30	60	100-200	500-800	200	150
35	70	100-200	500-800	250	150
40	80	100-200	500-800	305	150
45	90	100-200	500-800	360	150
50	100	100-200	500-800	425	250
55	110	100-200	500-800	495	250

Speed (MPH)	Merging Taper: L		Shoulder Taper: 1/3L		50' Per Lane Taper	
	Length (Feet)	Minimum Number Of Devices	Length (Feet)	Minimum Number Of Devices	Length (Feet)	Minimum Number Of Devices
25	125	6	45	6	50	6
30	180	7	60	6	50	6
35	245	8	85	6	50	6
40	320	9	110	6	50	6
45	340	13	180	6	50	6
50	500	13	200	6	50	6
55	660	13	220	7	50	6

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	34 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



PATA 122

- For operations of 15 minutes or less:
 - The ROAD WORK and CENTER LANE CLOSED signs are not required.
 - All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not move.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

Signs

Sign Spacing, Channelizing Device Spacing, Buffer Space, and Roll Ahead Space

Speed S (MPH)	Channelizing Devices Spacing 2S (Feet)	Sign Spacing		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)		
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

Taper Lengths and Minimum Number of Channelizing Devices

Speed S (MPH)	Merging Taper: L	
	Length (Feet)	Minimum Number Of Devices
25	125	6
30	180	7
35	245	8
40	320	9
45	440	13
50	600	13
55	660	13

PATA 126-A

- Calculate taper lengths by using the regulatory speed limit (S) and appropriate offset width (W) in formulas shown below.
- Provide a 10' minimum lane width for traffic, which may include the shoulder if the shoulder is paved, in good condition and free from road debris.
- Downstream taper length is 50' per lane plus the length required until the longitudinal devices are met.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

Signs

Sign Spacing, Channelizing Device Spacing, Buffer Space, and Roll Ahead Space

Speed S (MPH)	Channelizing Devices Spacing 2S (Feet)	Sign Spacing		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)		
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

Taper Lengths and Minimum Number of Channelizing Devices

Speed S (MPH)	Merging Taper: L			Shoulder Taper: 1/3L			50' Per Lane Taper		
	Length (Feet)	Minimum Number Of Devices	Length (Feet)	Minimum Number Of Devices	Length (Feet)	Minimum Number Of Devices	Length (Feet)	Minimum Number Of Devices	
25	Calculate	6	45	6	50	6	50	6	
30	Calculate	7	60	6	50	6	50	6	
35	Calculate	8	85	6	50	6	50	6	
40	Calculate	9	110	6	50	6	50	6	
45	Calculate	13	180	6	50	6	50	6	
50	Calculate	13	200	6	50	6	50	6	
55	Calculate	13	220	7	50	6	50	6	

*** Taper Length Formulas**

If the speed limit is 40 MPH or less $L = \frac{WS^2}{60}$	If the speed limit is 45 MPH or more $L = WS$
---	--

S = Regulatory Speed Limit (MPH)
W = Width of Offset (feet)
L = Length of Taper (feet)

PATA 126-B

- Calculate taper lengths by using the regulatory speed limit (S) and appropriate offset width (W) in formulas shown below.
- Provide a 10' minimum lane width for traffic, which may include the shoulder if the shoulder is paved, in good condition and free from road debris.
- Downstream taper length is 50' per lane plus the length required until the longitudinal devices are met.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

Signs

Sign Spacing, Channelizing Device Spacing, Buffer Space, and Roll Ahead Space

Speed S (MPH)	Channelizing Devices Spacing 2S (Feet)	Sign Spacing		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)		
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

Taper Lengths and Minimum Number of Channelizing Devices

Speed S (MPH)	Merging Taper: L			Shoulder Taper: 1/3L			50' Per Lane Taper		
	Length (Feet)	Minimum Number Of Devices	Length (Feet)	Minimum Number Of Devices	Length (Feet)	Minimum Number Of Devices	Length (Feet)	Minimum Number Of Devices	
25	Calculate	6	45	6	50	6	50	6	
30	Calculate	7	60	6	50	6	50	6	
35	Calculate	8	85	6	50	6	50	6	
40	Calculate	9	110	6	50	6	50	6	
45	Calculate	13	180	6	50	6	50	6	
50	Calculate	13	200	6	50	6	50	6	
55	Calculate	13	220	7	50	6	50	6	

*** Taper Length Formulas**

If the speed limit is 40 MPH or less $L = \frac{WS^2}{60}$	If the speed limit is 45 MPH or more $L = WS$
---	--

S = Regulatory Speed Limit (MPH)
W = Width of Offset (feet)
L = Length of Taper (feet)

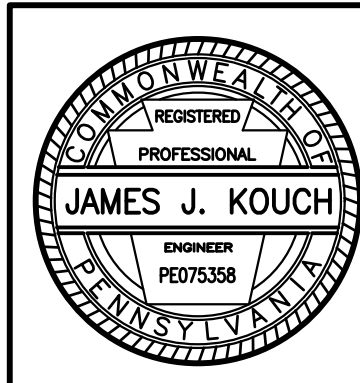
PATA 201-A

- TTC devices are not required if the work space is outside the highway right-of-way, behind barrier, more than 2' behind curb, or 15' or more from the edge of the roadway.
- When a shadow vehicle is not used, distance A is measured from the ROAD WORK sign location to beginning of the work space.

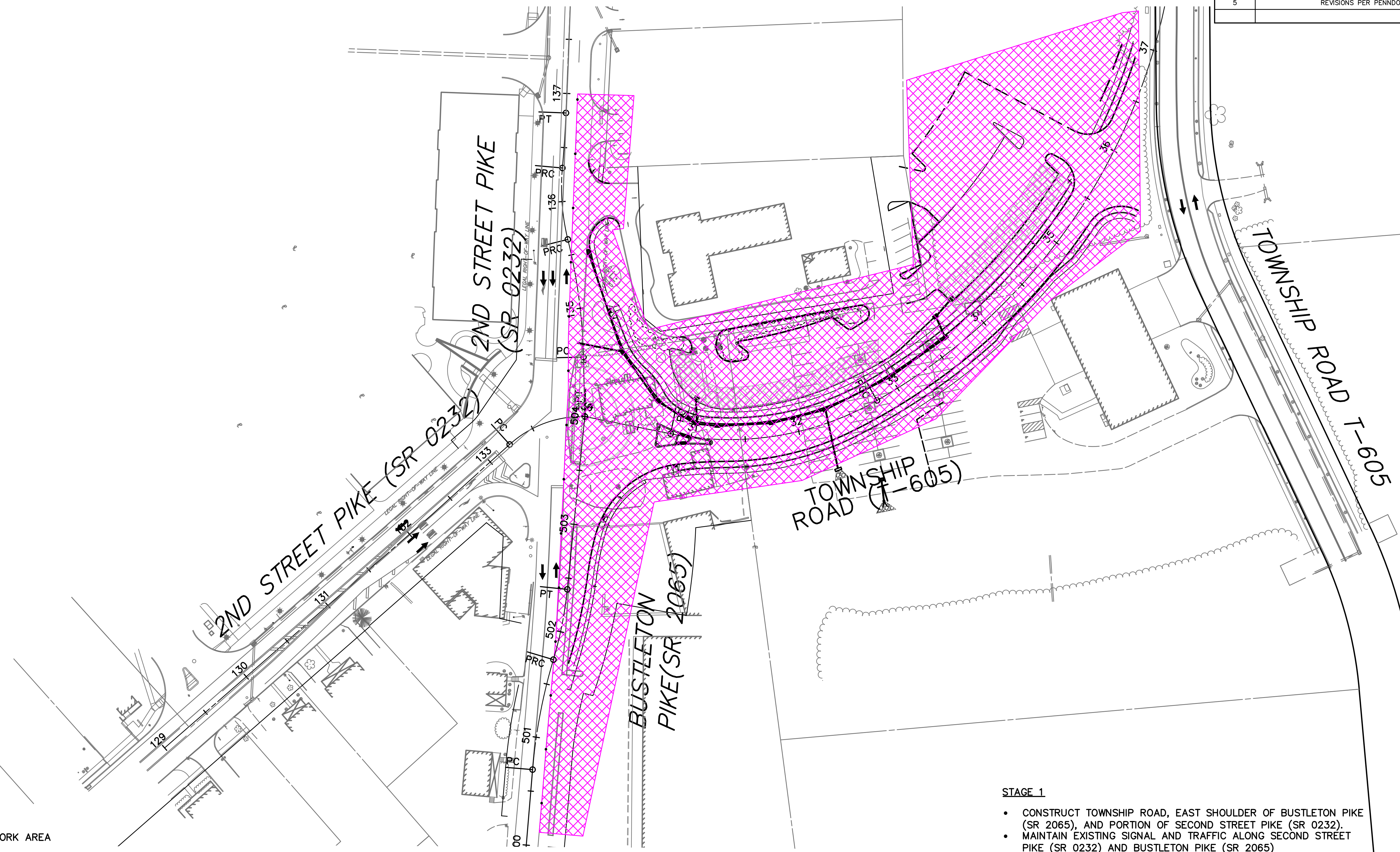
Signs

Sign Spacing, Channelizing Device Spacing, and Roll Ahead Space





Speed S (MPH)	Channelizing Devices Spacing 2S (Feet)	Sign Spacing		Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)	
25	50	100 - 200	500 - 800	150
30	60	100 - 200	500 - 800	150
35	70	100 - 200	500 - 800	150
40	80	350 - 500	500 - 800	150
45	90	350 - 500	500 - 800	150
50	100	350 - 500	500 - 800	250
55	110	350 - 500	500 - 800	250



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	35 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

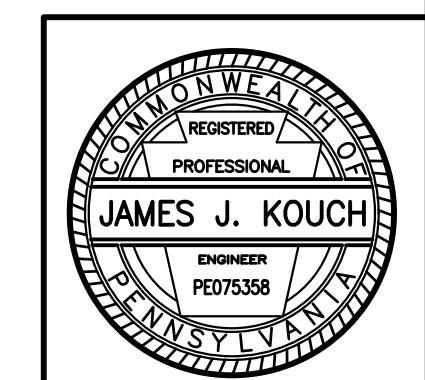
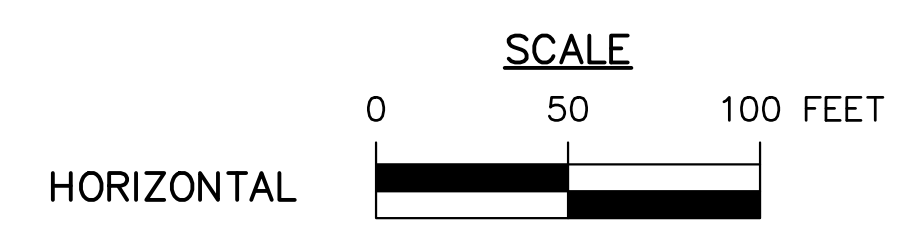


LEGEND:

-  LONG-TERM WORK AREA
-  SIGN OR BARRICADE (AS NOTED)
-  CHANNELIZING DEVICE
-  TRAFFIC FLOW ARROW

STAGE 1

- CONSTRUCT TOWNSHIP ROAD, EAST SHOULDER OF BUSTLETON PIKE (SR 2065), AND PORTION OF SECOND STREET PIKE (SR 0232).
- MAINTAIN EXISTING SIGNAL AND TRAFFIC ALONG SECOND STREET PIKE (SR 0232) AND BUSTLETON PIKE (SR 2065)
- CONSTRUCT ACCESS ROAD BEHIND GELT PROPERTY PRIOR TO START OF GELT DRIVEWAY IMPROVEMENTS; RECONSTRUCT GELT DRIVEWAY IMMEDIATELY AFTER. ACCESS TO GELT SITE TO BE PROVIDED VIA ACCESS ROAD FOR PEDESTRIANS AND VEHICULAR TRAFFIC TO USE SOUTHERN PARKING AREAS ON BOTH SIDES OF EXISTING BUILDING. INTERNAL SITE SIGNAGE TO BE PROVIDED AS NECESSARY.
- CONSTRUCT FUNERAL HOME DRIVEWAY IMPROVEMENTS UNDER SHORT-TERM CONDITIONS
- MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD

JOB NO: 816506.2A
DWG: 506TCP01
DATE: 5/16/18





NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

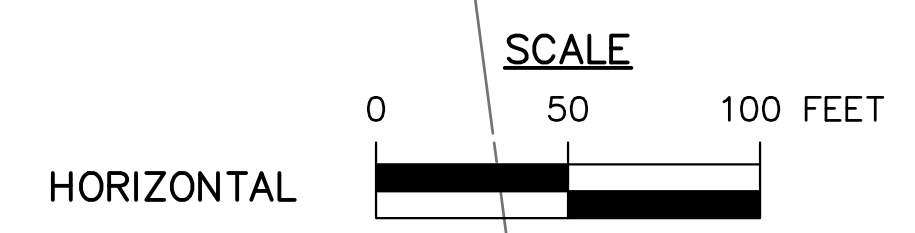
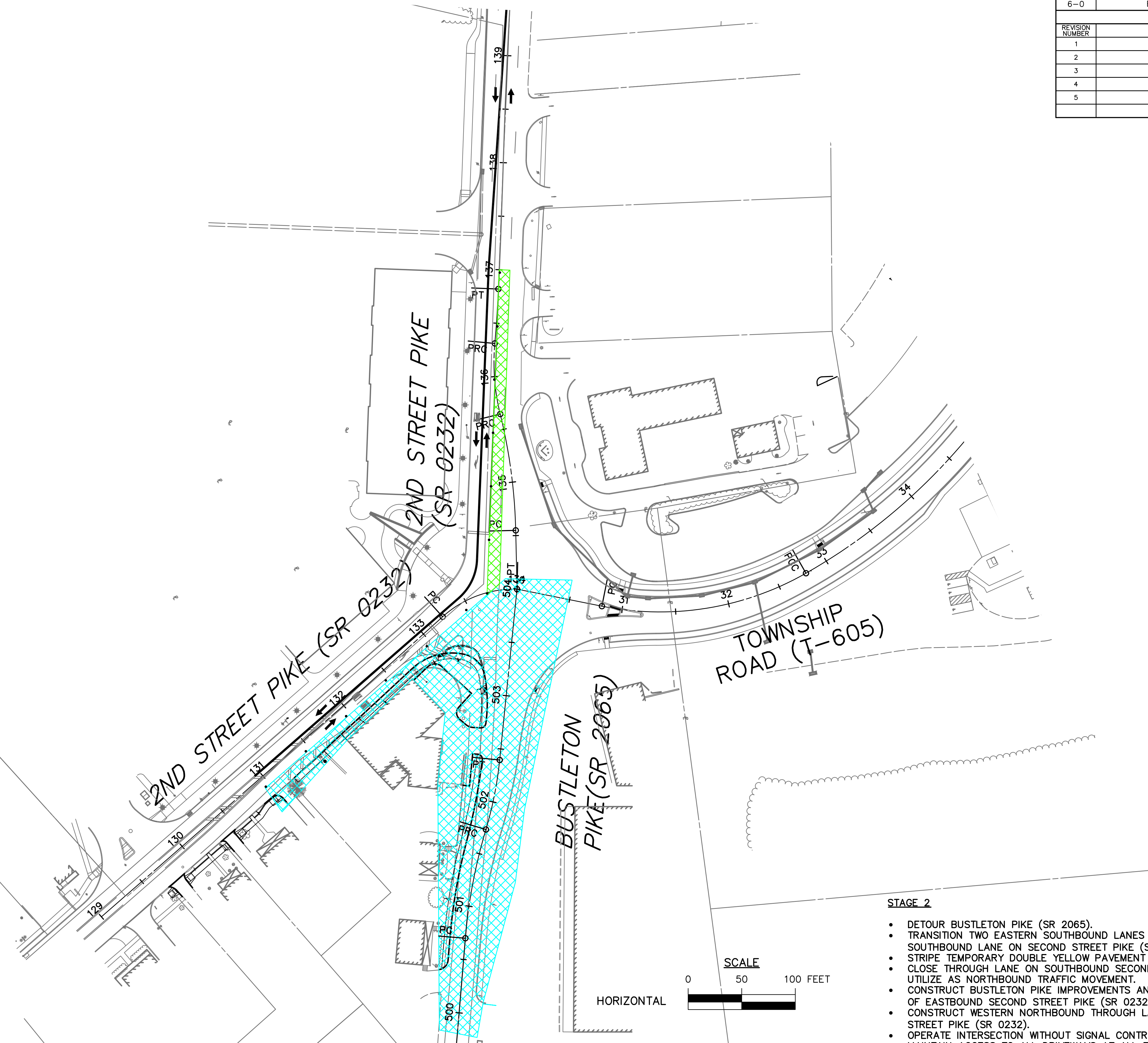
RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP BUCKS COUNTY

TRAFFIC CONTROL PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	36 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

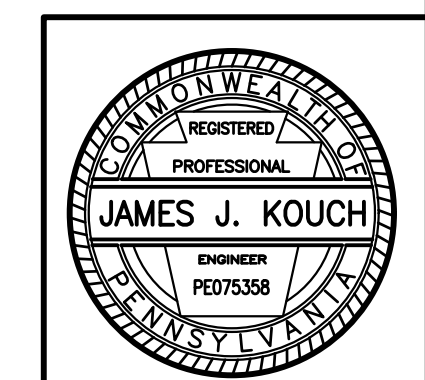
LEGEND:

-  LONG-TERM WORK AREA
-  SIGN OR BARRICADE (AS NOTED)
-  CHANNELIZING DEVICE
-  TRAFFIC FLOW ARROW



STAGE 2

- DETOUR BUSTLETON PIKE (SR 2065).
- TRANSITION TWO EASTERN SOUTHBOUND LANES TO ONE SOUTHBOUND LANE ON SECOND STREET PIKE (SR 0232).
- STRIPE TEMPORARY DOUBLE YELLOW PAVEMENT MARKINGS.
- CLOSE THROUGH LANE ON SOUTHBOUND SECOND STREET PIKE, AND UTILIZE AS NORTHBOUND TRAFFIC MOVEMENT.
- CONSTRUCT BUSTLETON PIKE IMPROVEMENTS AND RIGHT TURN LANE OF EASTBOUND SECOND STREET PIKE (SR 0232).
- CONSTRUCT WESTERN NORTHBOUND THROUGH LANE OF SECOND STREET PIKE (SR 0232).
- OPERATE INTERSECTION WITHOUT SIGNAL CONTROL.
- MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

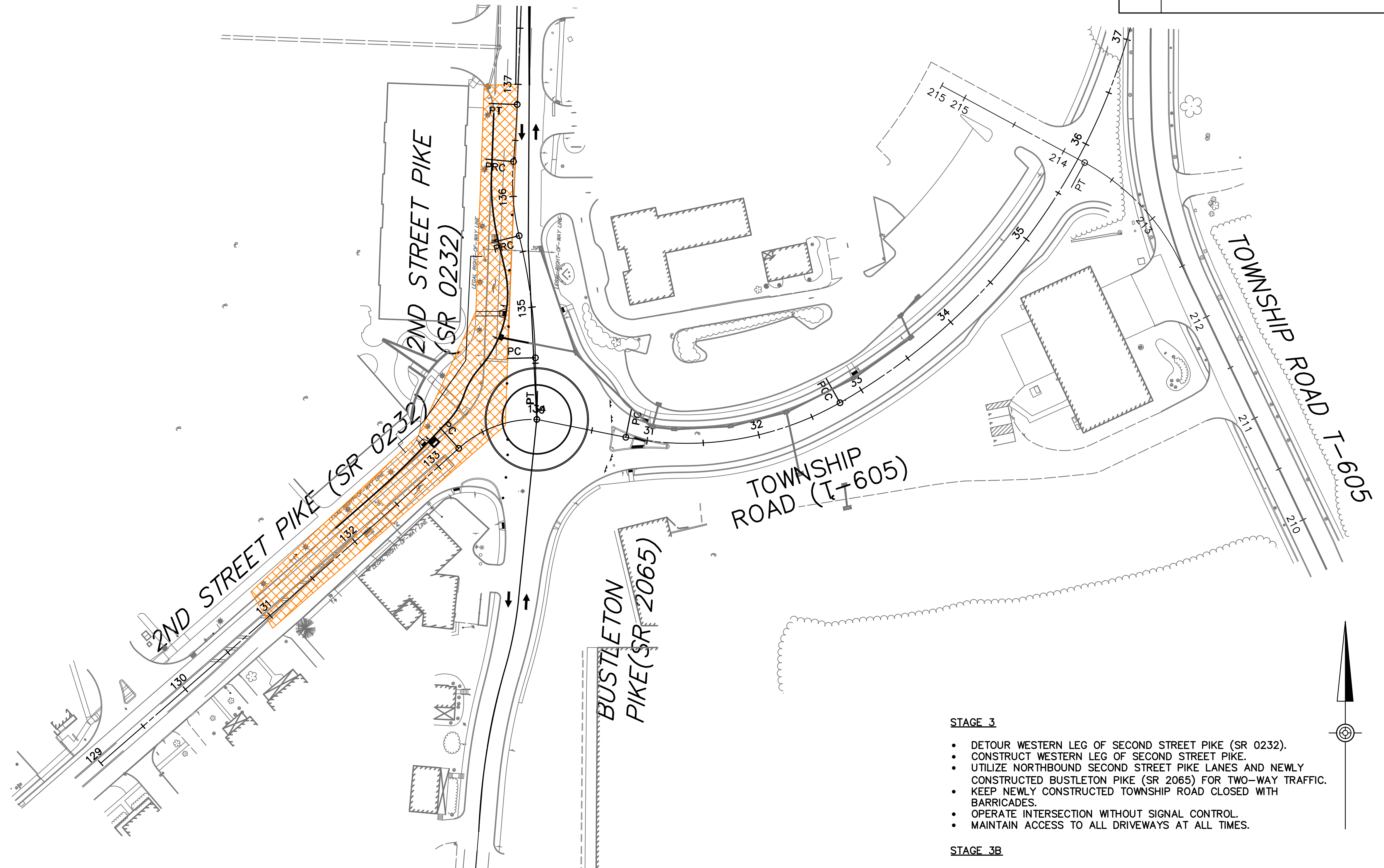
DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506TCP02
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

TRAFFIC CONTROL PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	38 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



LEGEND:

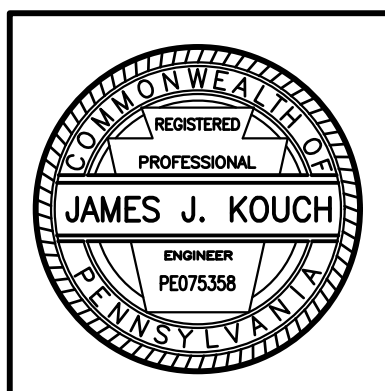
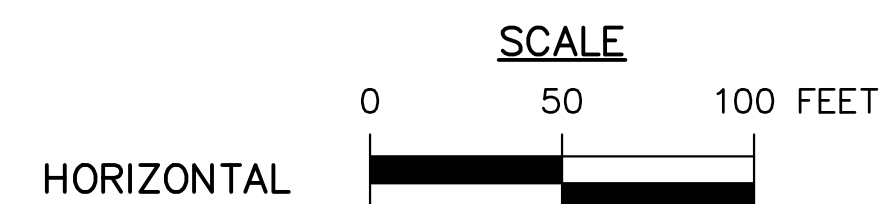
- LONG-TERM WORK AREA
- SIGN OR BARRICADE (AS NOTED)
- CHANNELIZING DEVICE
- TRAFFIC FLOW ARROW

STAGE 3

- DETOUR WESTERN LEG OF SECOND STREET PIKE (SR 0232).
- CONSTRUCT WESTERN LEG OF SECOND STREET PIKE.
- UTILIZE NORTHBOUND SECOND STREET PIKE LANES AND NEWLY CONSTRUCTED BUSTLETON PIKE (SR 2065) FOR TWO-WAY TRAFFIC.
- KEEP NEWLY CONSTRUCTED TOWNSHIP ROAD CLOSED WITH BARRICADES.
- OPERATE INTERSECTION WITHOUT SIGNAL CONTROL.
- MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.

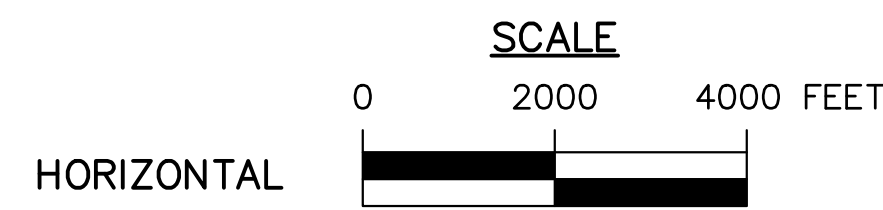
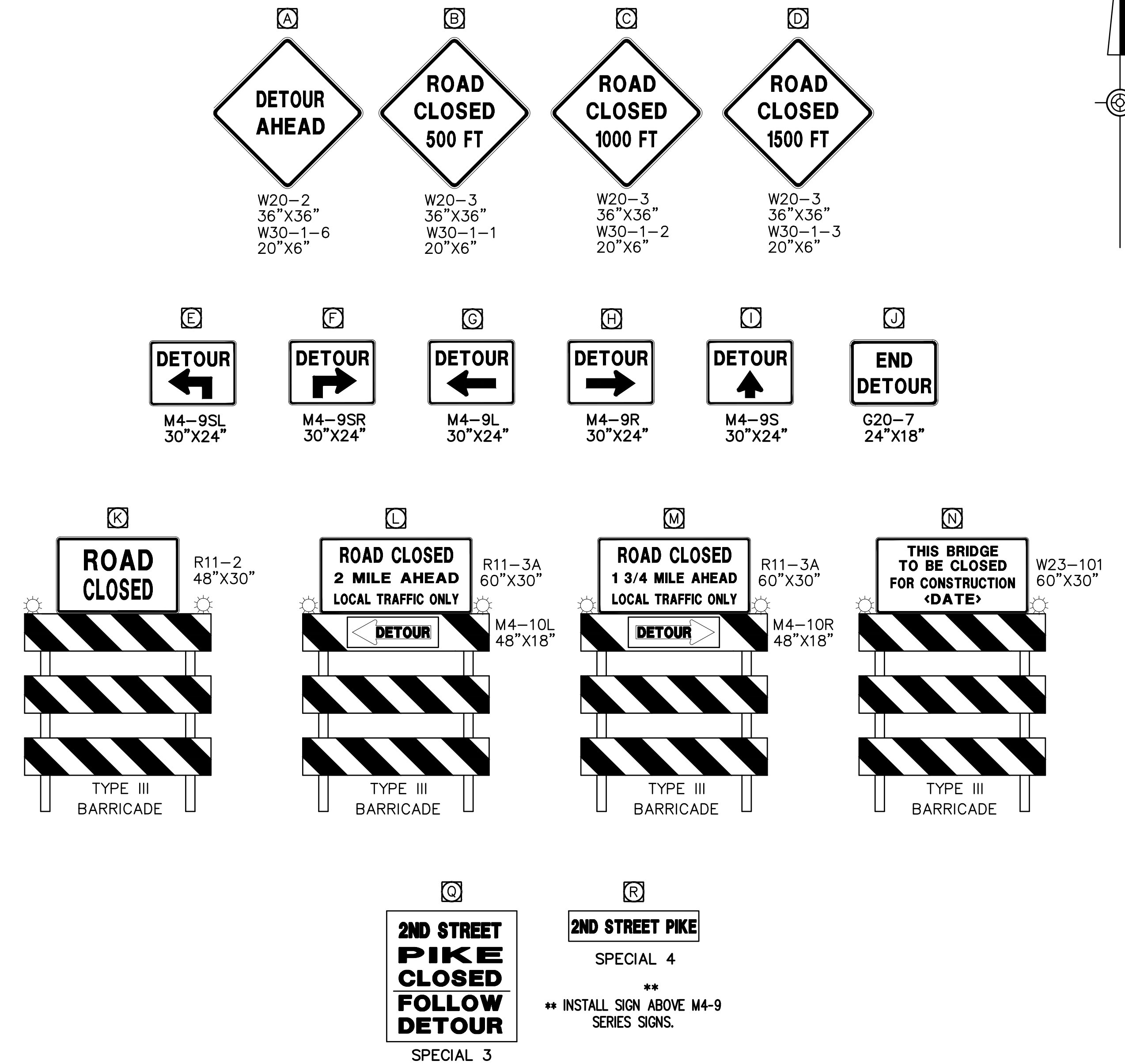
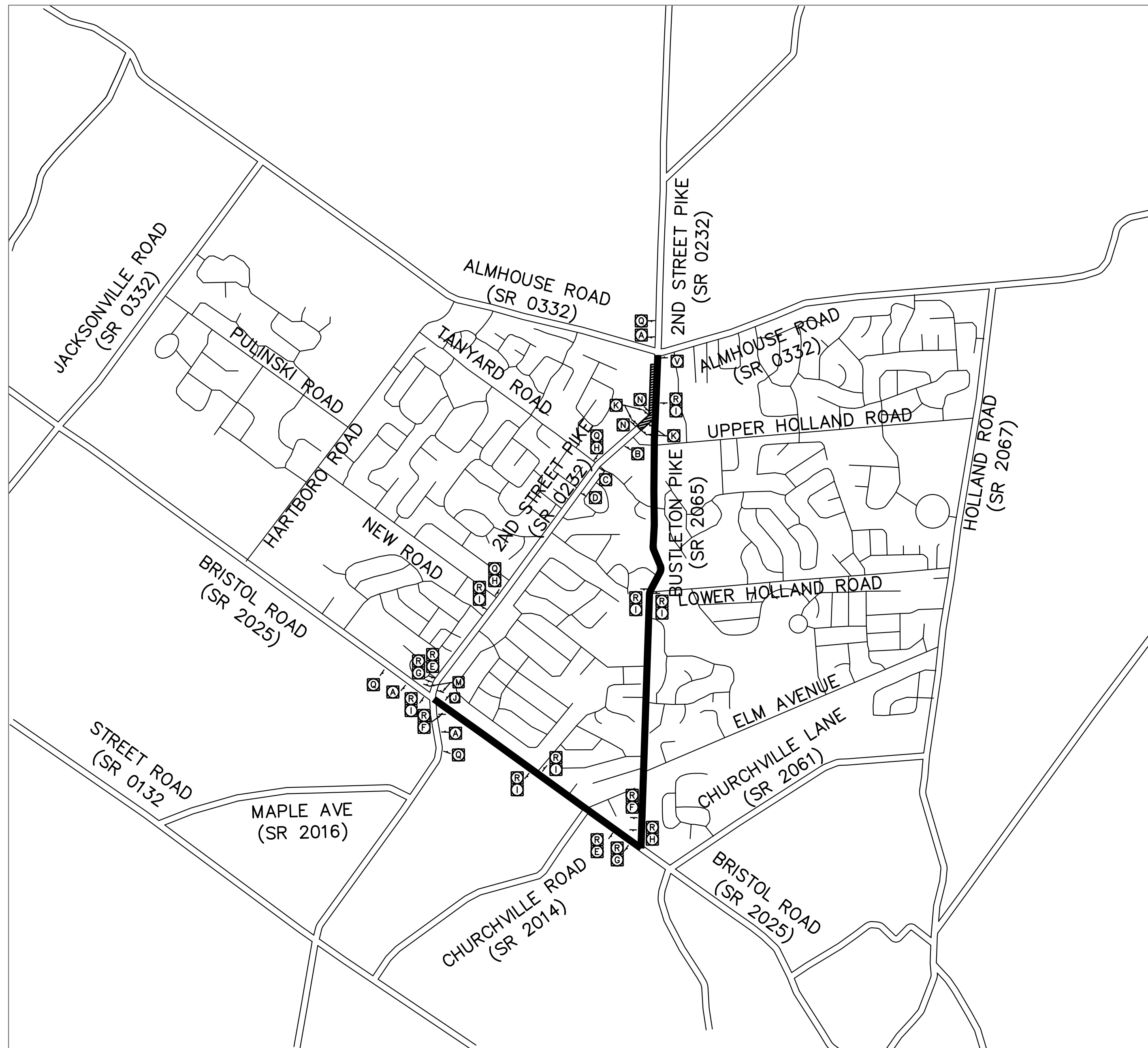
STAGE 3B

- UPON COMPLETION OF STAGE 3 WORK, OPEN WESTERN LEG OF SECOND STREET PIKE (SR 0232).
- PLACE TRUCK DETOUR FOR PROPOSED PROJECT IN ORDER TO COMPLETE THE CONSTRUCTION OF THE SPLITTER ISLANDS, CIRCLE CURBING, AND FINAL MILLING AND WEARING COURSE UNDER SHORT TERM CONDITIONS.
- INSTALL ALL ROUNDABOUT SIGNAGE AND STRIPING AND OPEN ROUNDABOUT.
- KEEP NEWLY CONSTRUCTED TOWNSHIP ROAD CLOSED WITH BARRICADES.

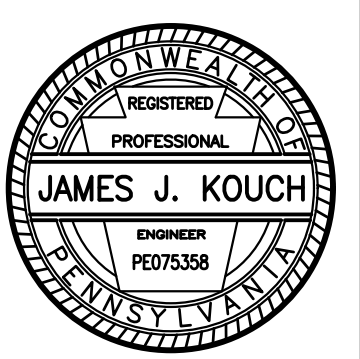


DETOUR PLAN 2ND STREET PIKE—PHASE 3

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	39 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



LEGEND	
	WORK AREA
	SIGN & IDENTIFYING LETTER
	TYPE B LIGHT
	DETOUR ROUTE



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506DTR02
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

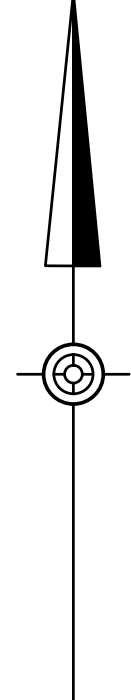
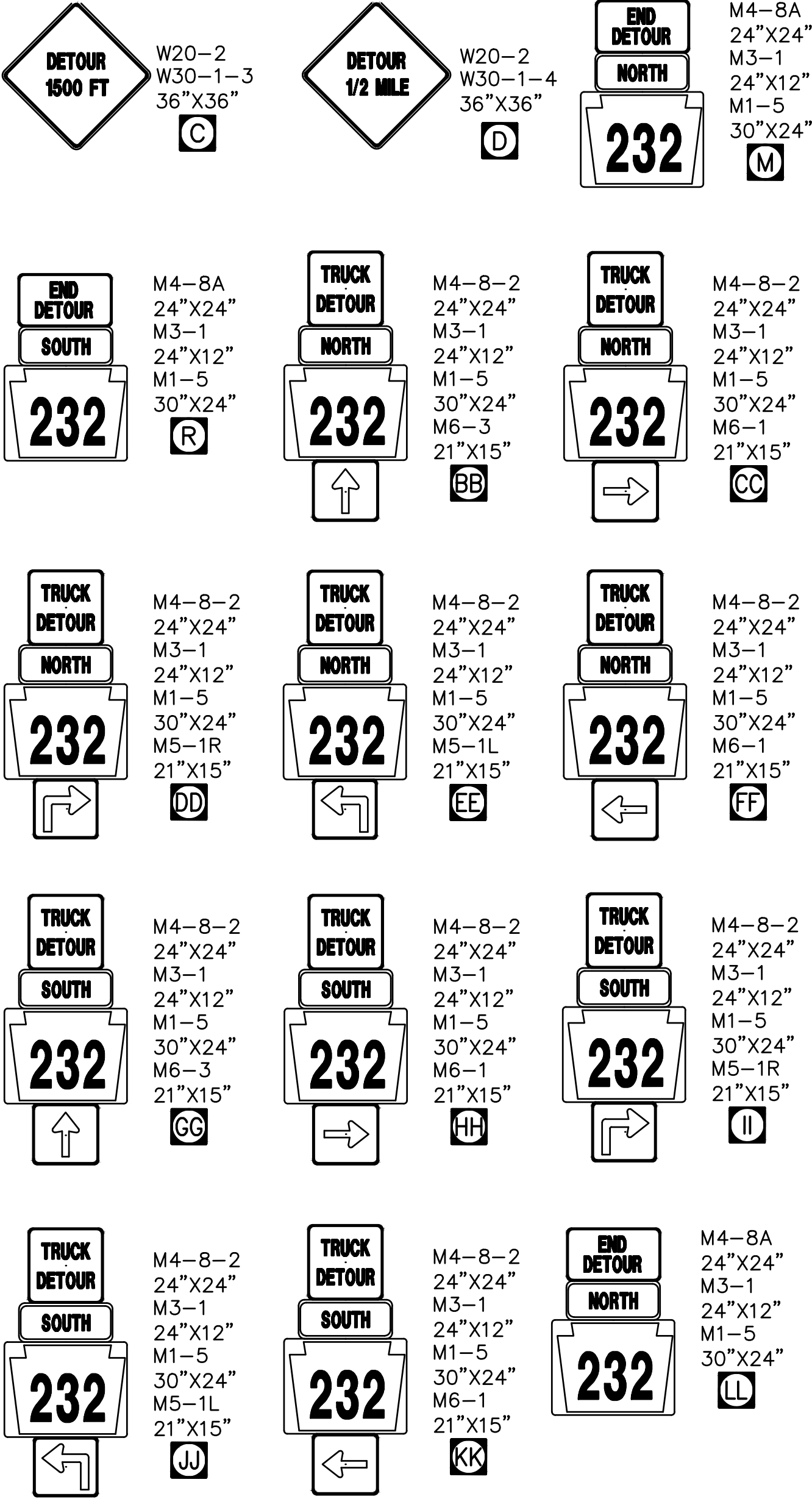
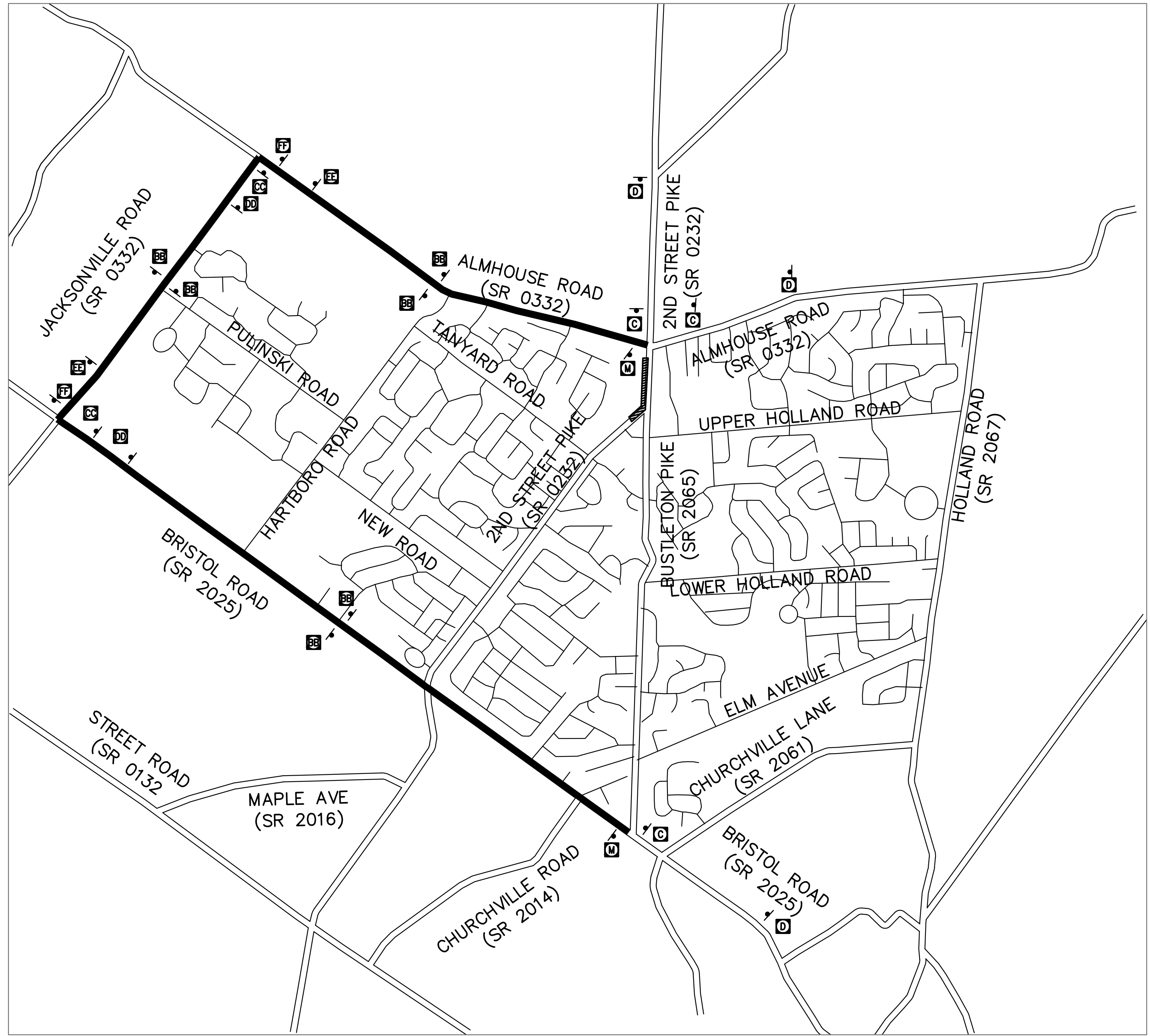
DETOUR PLAN

DETOUR PLAN

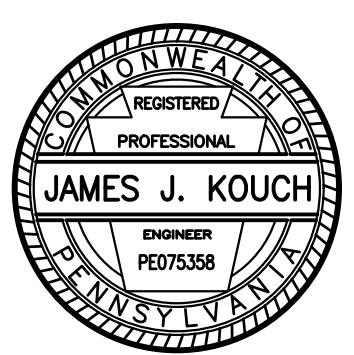
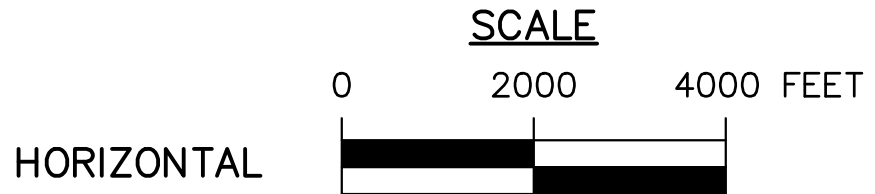
2ND STREET PIKE—PHASE 3 TRUCK DETOUR

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	40 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

TRAFFIC CONTROL PLAN TRUCK DETOUR



LEGEND	
	WORK AREA
	SIGN & IDENTIFYING LETTER
	TYPE B LIGHT
	DETOUR ROUTE



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY JOB NO: 816506.2A
DRAWN BY: KLY DWG: 506DTR04
CHECKED BY: BDD DATE: 5/16/18

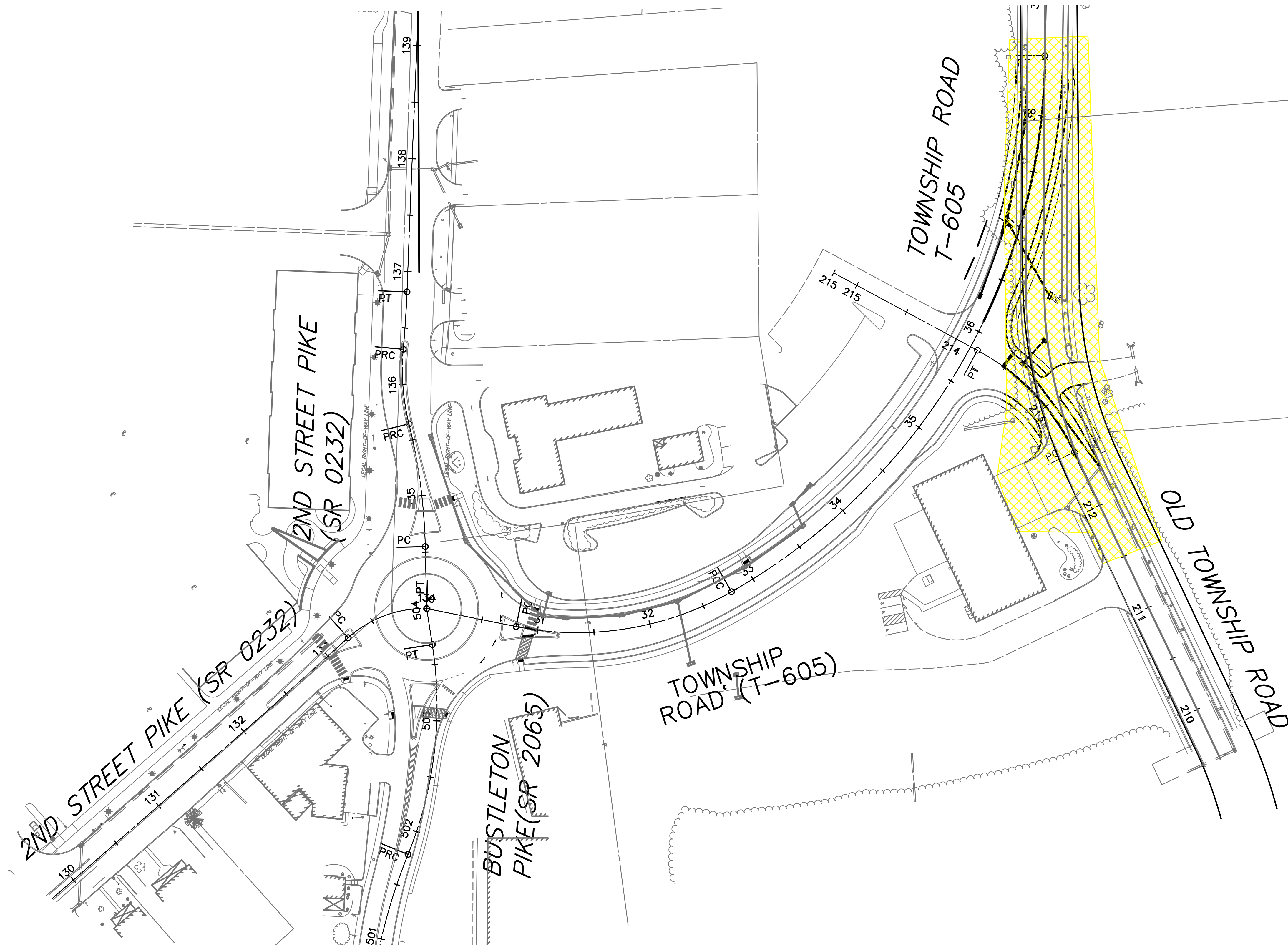
NORTHAMPTON TOWNSHIP

55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP BUCKS COUNTY

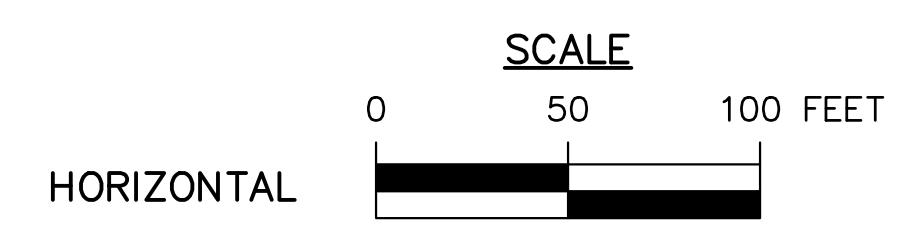
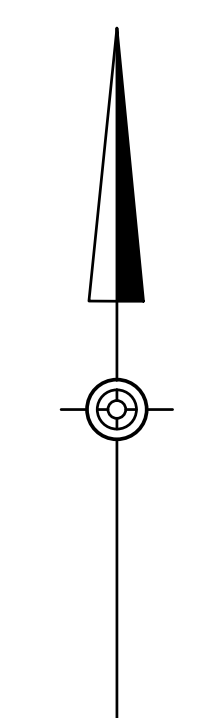
DETOUR PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	41 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



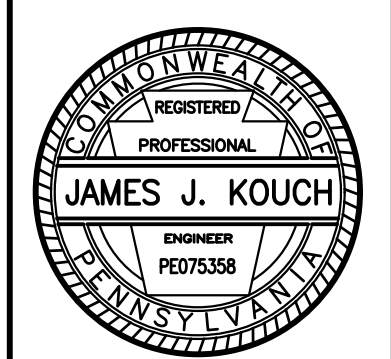
LEGEND:

- LONG-TERM WORK AREA
- SIGN OR BARRICADE (AS NOTED)
- CHANNELIZING DEVICE
- TRAFFIC FLOW ARROW



STAGE 4

- DETOUR TOWNSHIP ROAD AND CONSTRUCT TOWNSHIP ROAD IMPROVEMENTS.
- UTILIZE BARRIERS TO KEEP NEWLY CONSTRUCTED TOWNSHIP ROAD LEG OF ROUNDABOUT CLOSED.
- MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.



425 COMMERCE DRIVE
 SUITE 200
 FORT WASHINGTON, PA 19034
 PH: (215) 283-9444
 FAX: (215) 283-9447

DESIGN BY: KLY
 DRAWN BY: KLY
 CHECKED BY: BDD
 JOB NO: 816506.2A
 DWG: 506TCP04
 DATE: 5/16/18

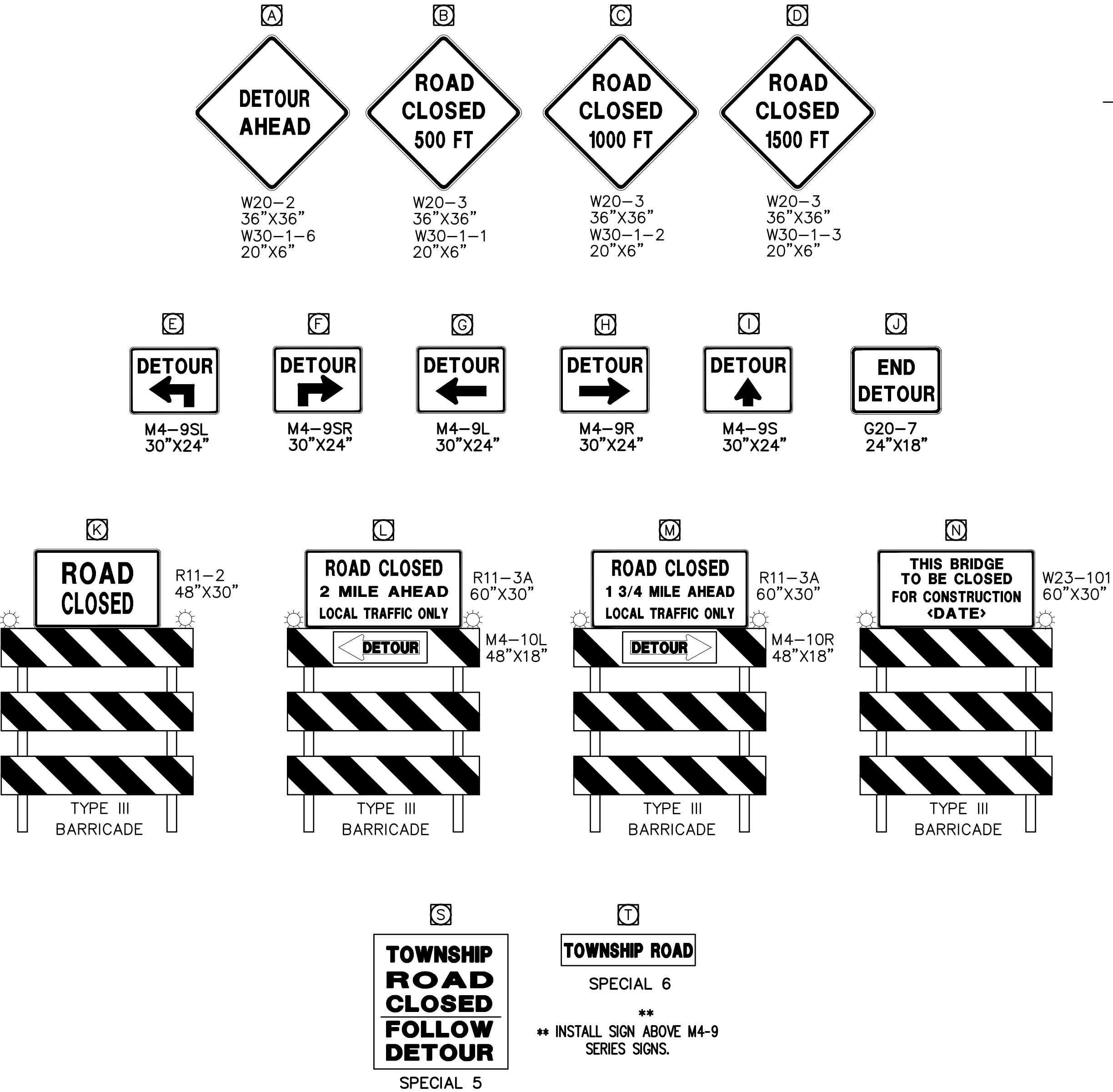
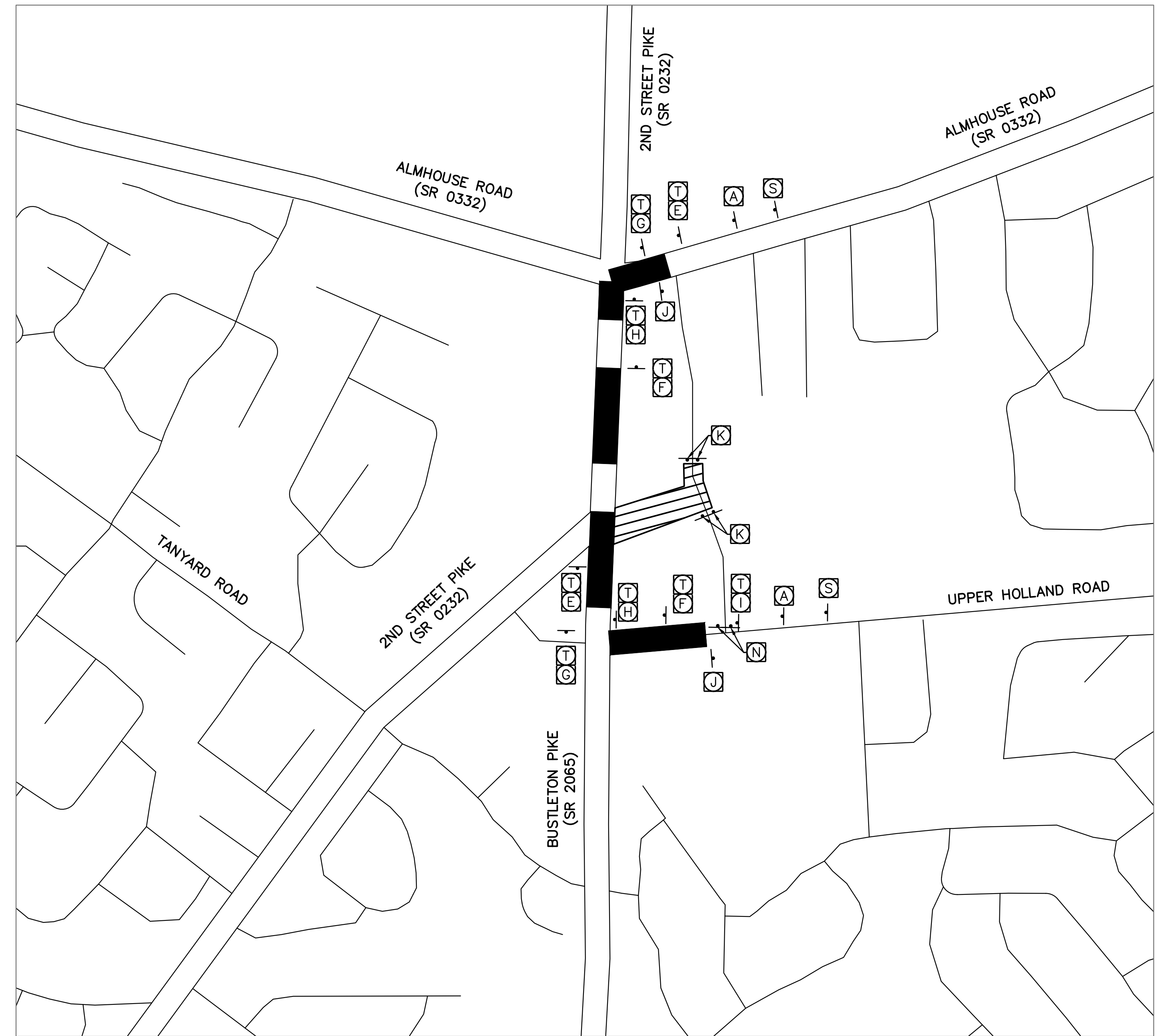
NORTHAMPTON TOWNSHIP
 55 TOWNSHIP RD
 RICHBORO, PA 18954
 (215) 357-6800

RICHBORO ROUNDABOUT
 2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
 NORTHAMPTON TOWNSHIP BUCKS COUNTY

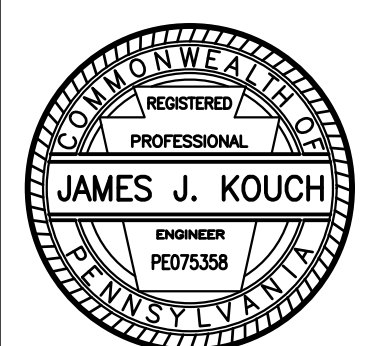
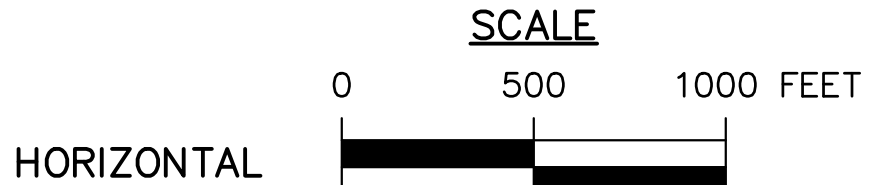
TRAFFIC CONTROL PLAN

DETOUR PLAN TOWNSHIP ROAD—PHASE 4

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	42 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



LEGEND	
	WORK AREA
	SIGN & IDENTIFYING LETTER
	TYPE B LIGHT
	DETOUR ROUTE



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD

JOB NO: 816506.2A
DWG: 506DTR03
DATE: 5/16/18

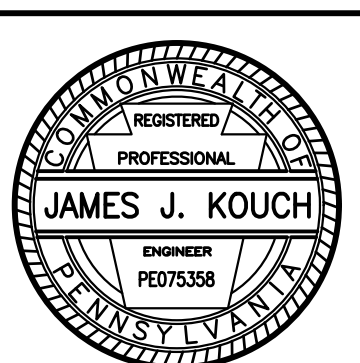
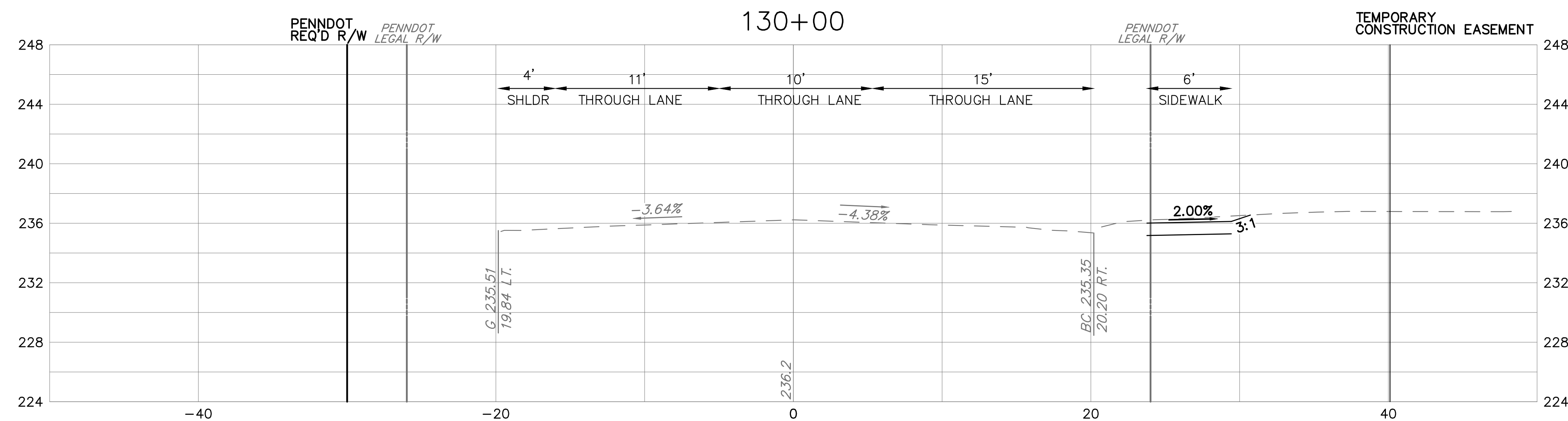
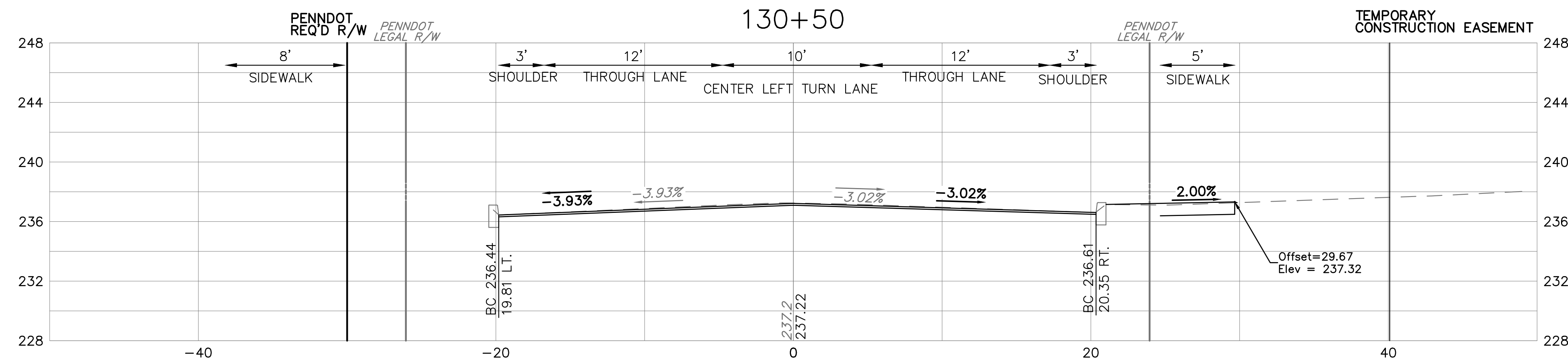
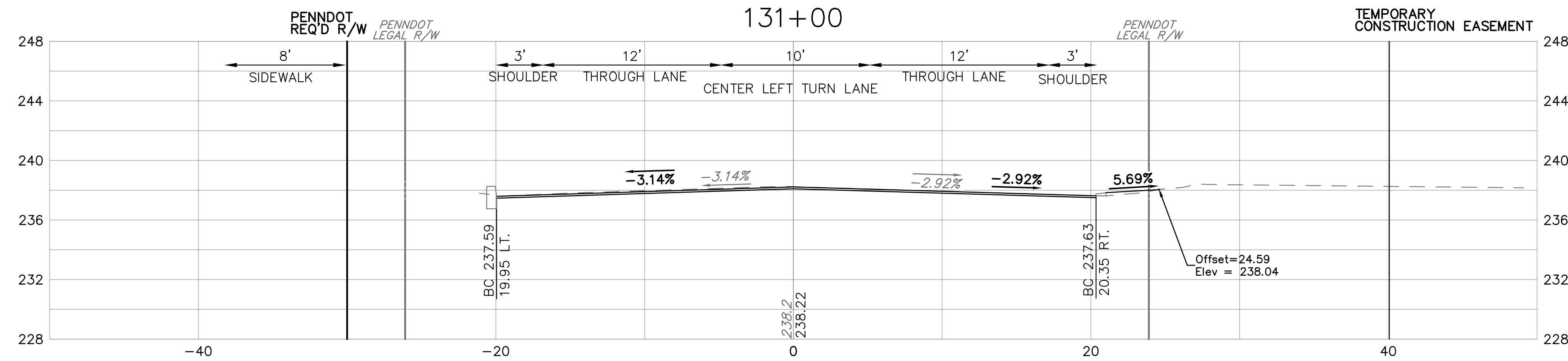
NORTHAMPTON TOWNSHIP

55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

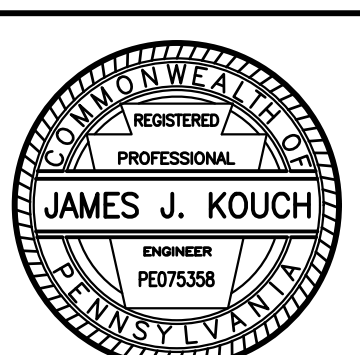
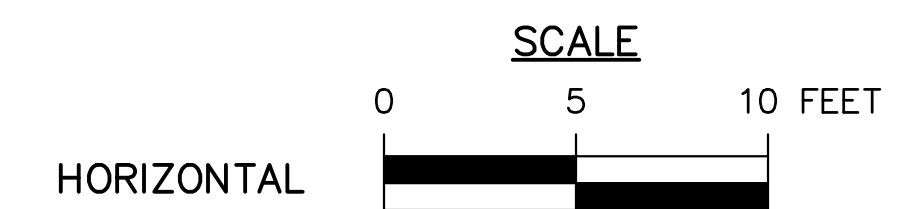
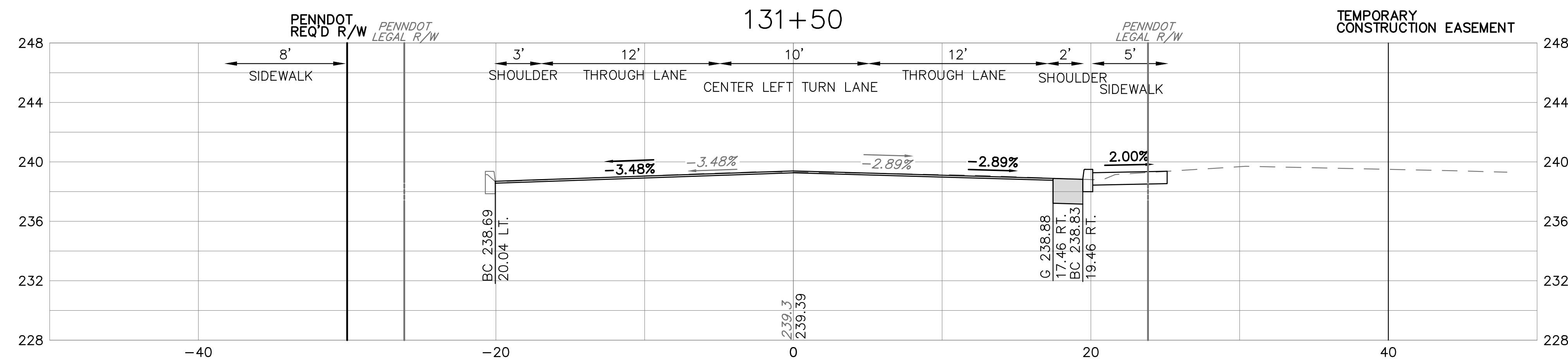
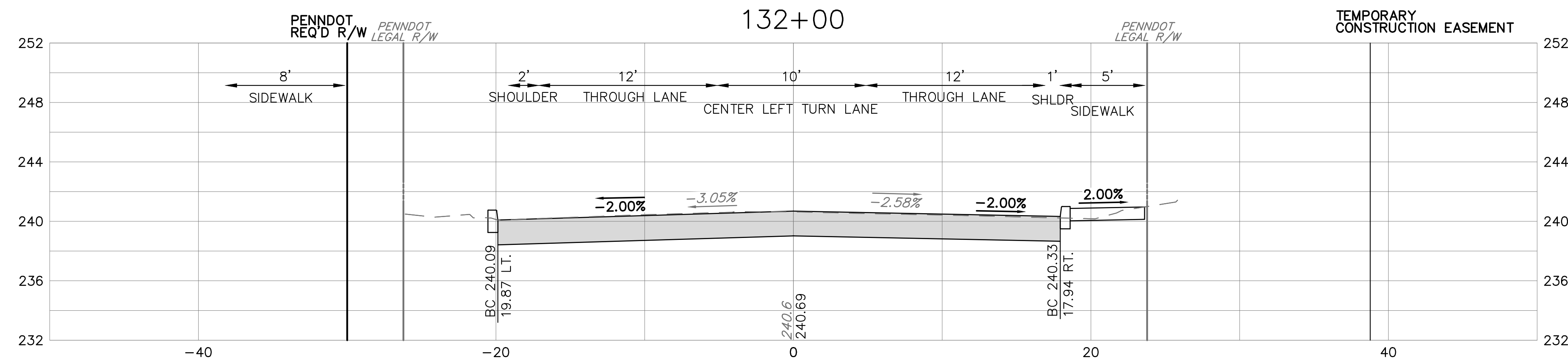
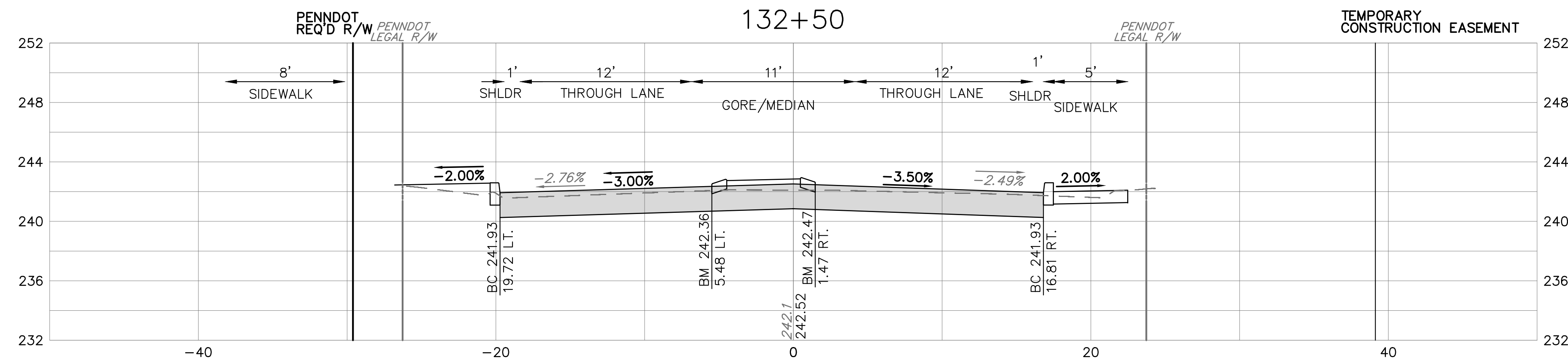
RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

DETOUR PLAN

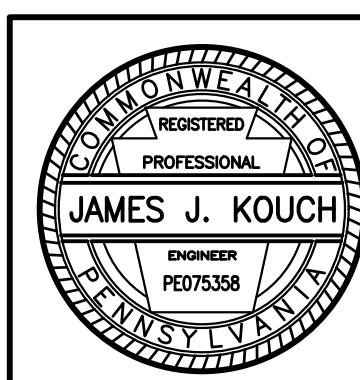
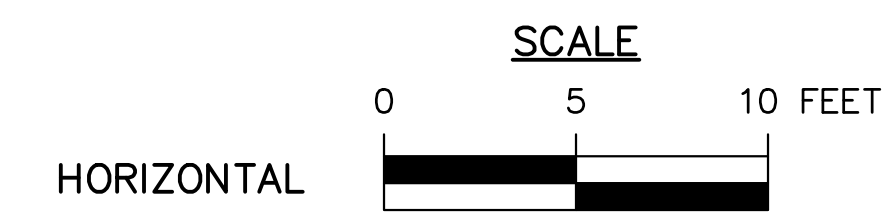
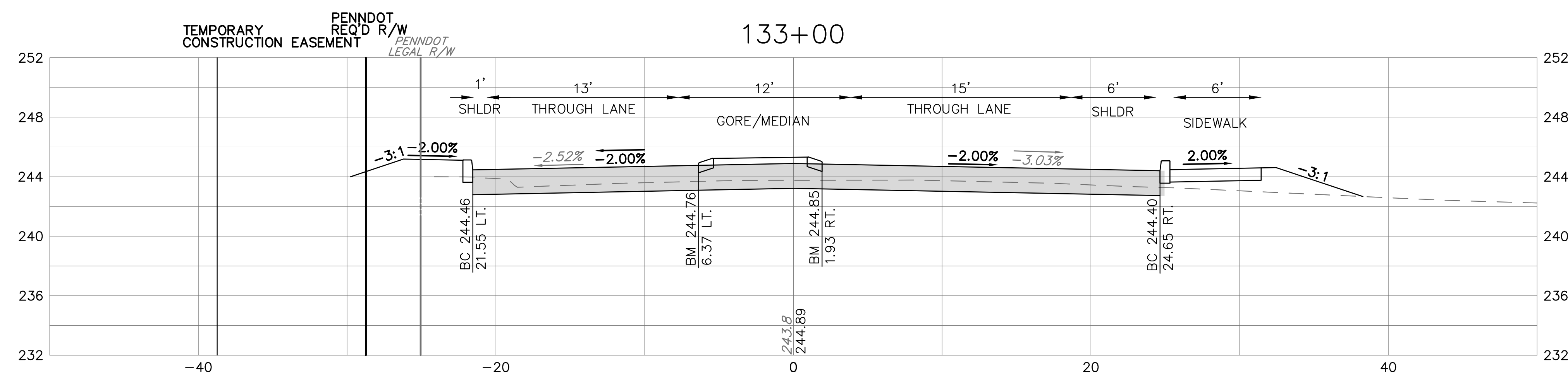
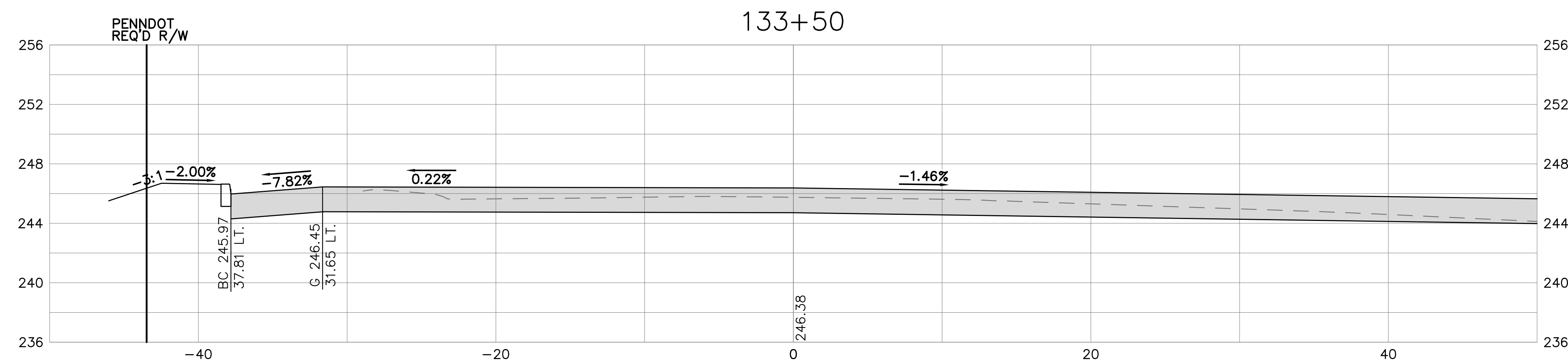
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	43 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	44 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	45 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



425 COMMERCE DRIVE
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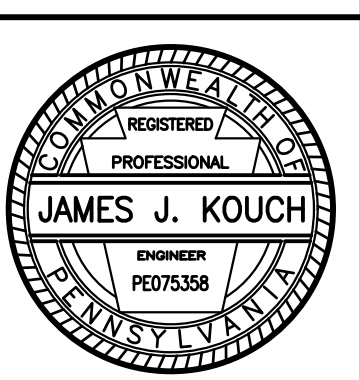
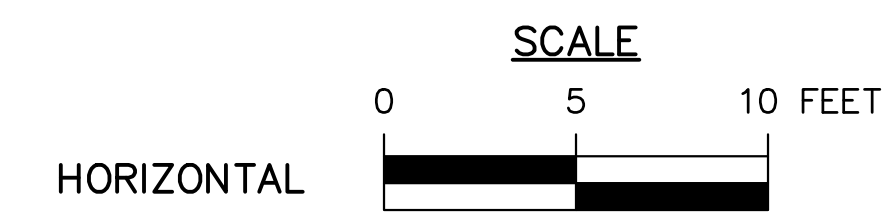
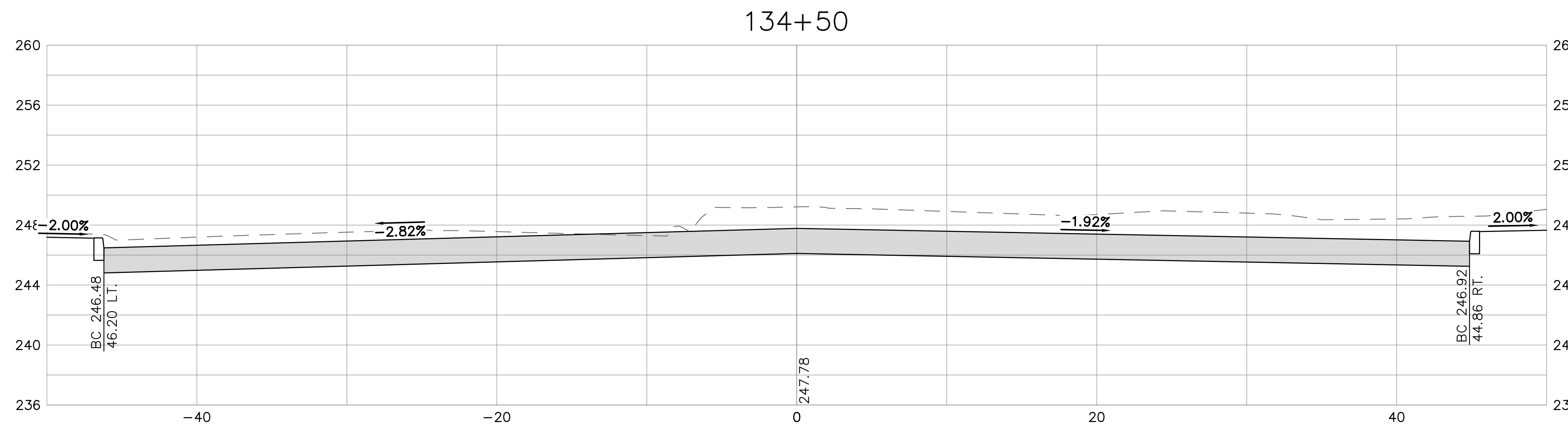
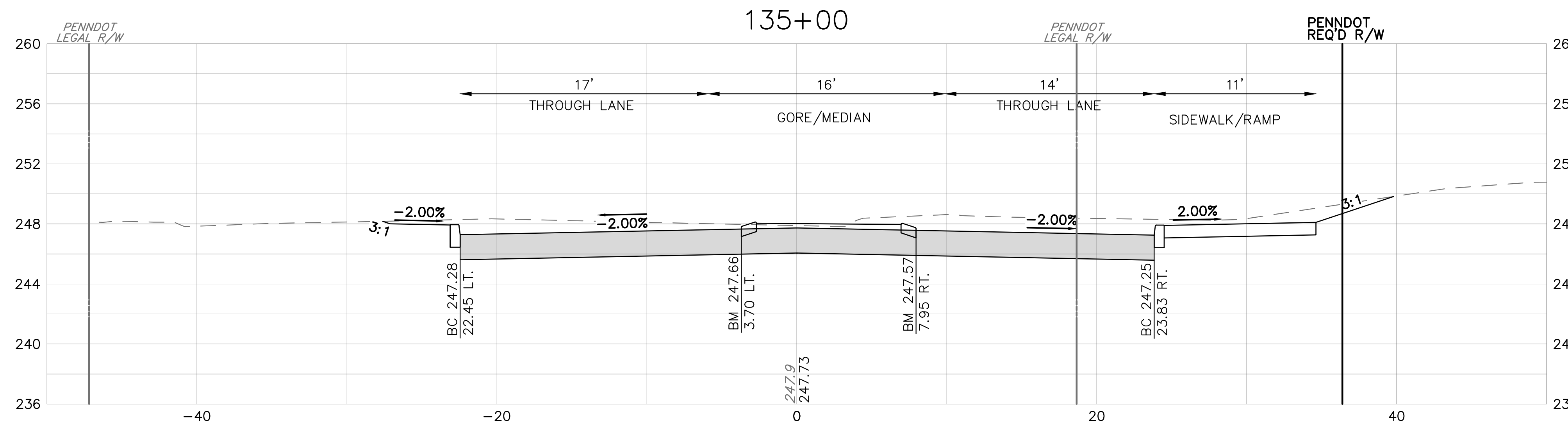
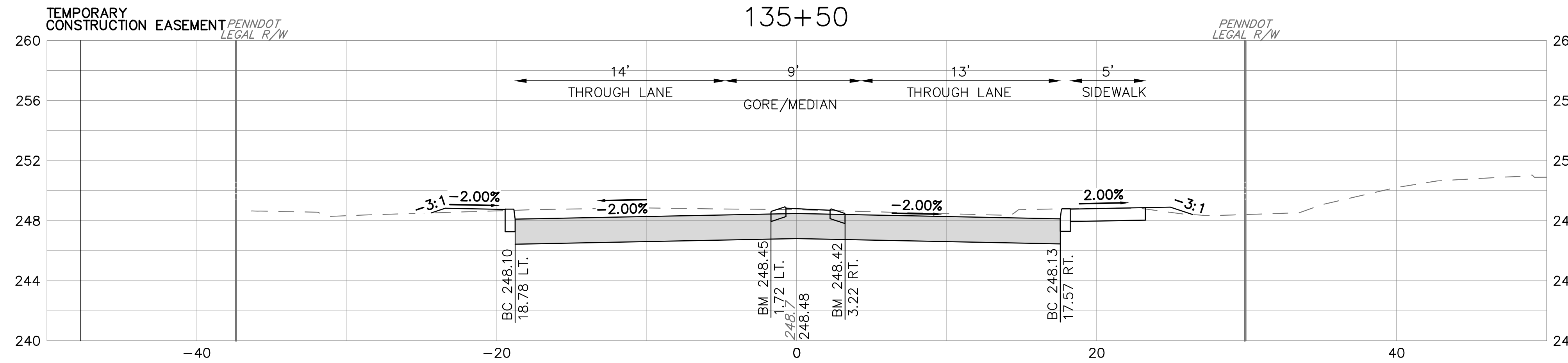
DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506XSC01
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

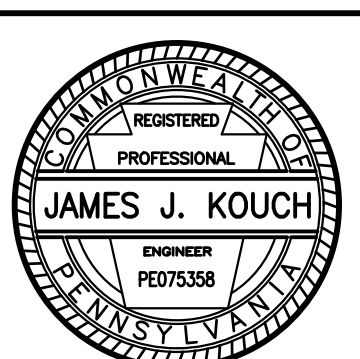
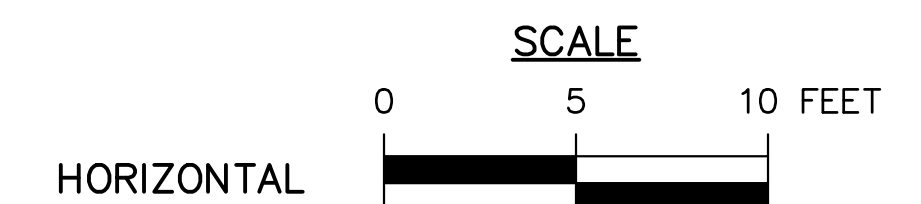
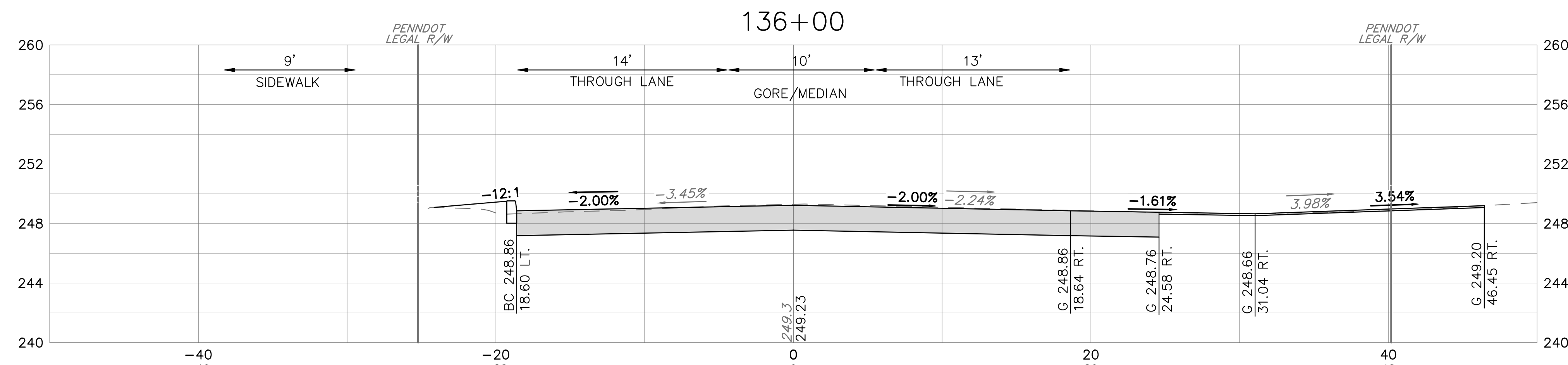
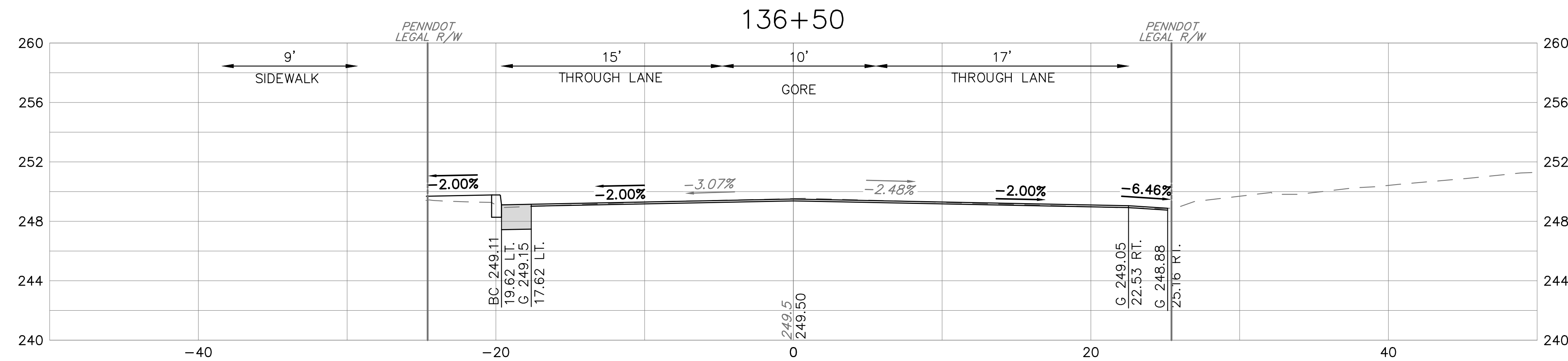
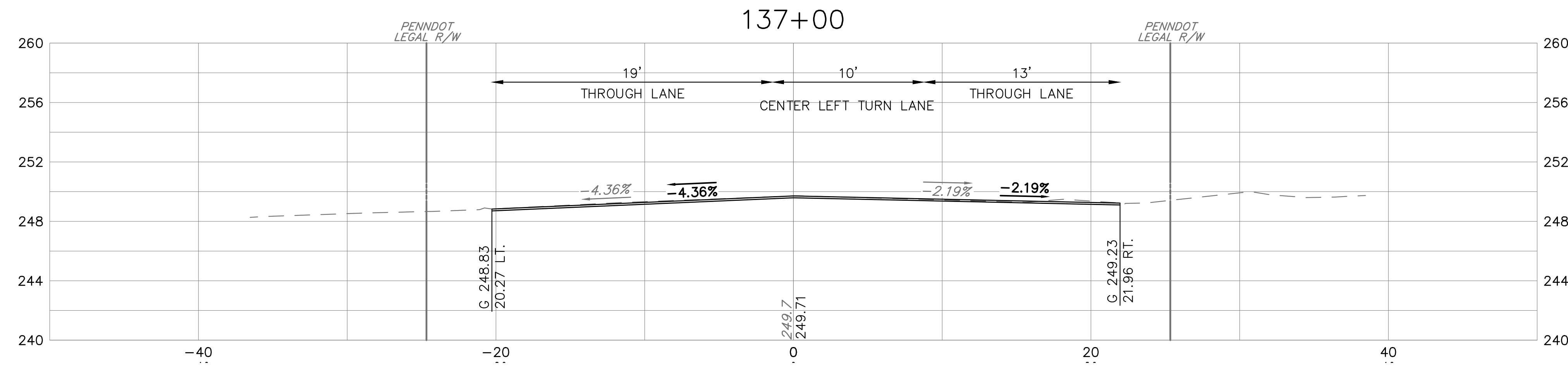
RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
MONTGOMERY COUNTY

CROSS-SECTIONS
SECOND STREET PIKE (SR 0232)

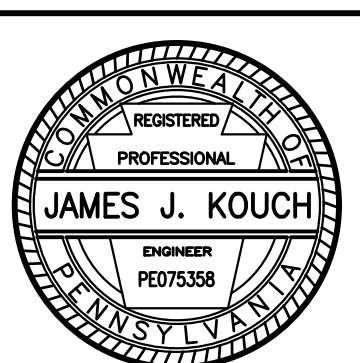
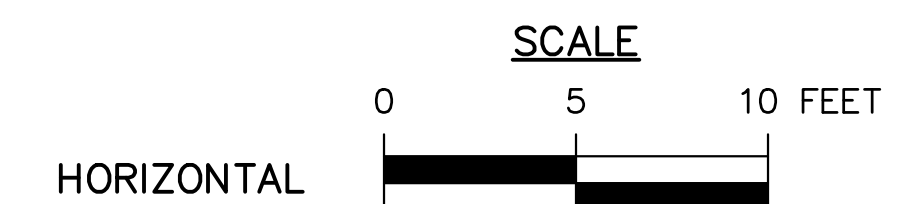
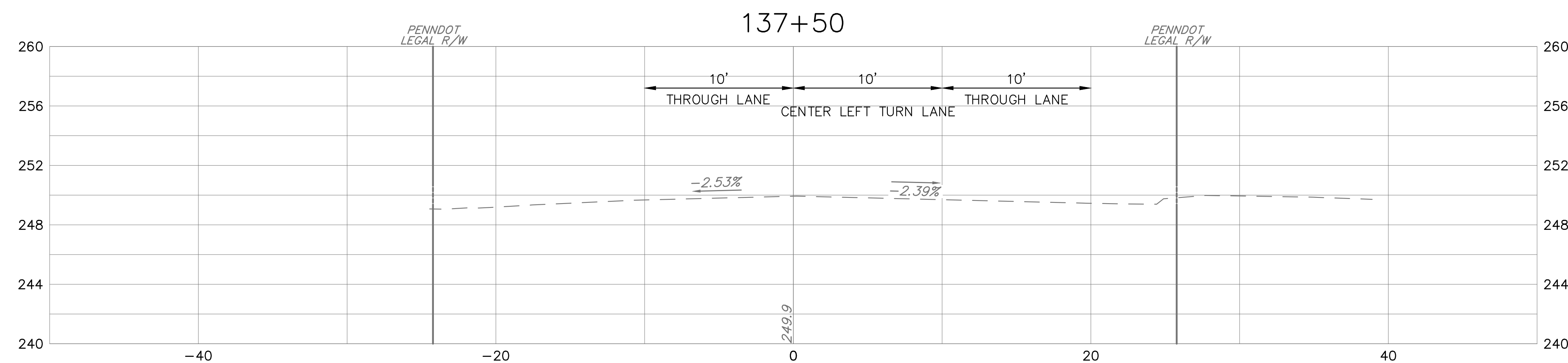
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	46 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	47 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	48 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



425 COMMERCE DRIVE
 SUITE 200
 FORT WASHINGTON, PA 19034
 PH: (215) 283-9444
 FAX: (215) 283-9447

DESIGN BY: KLY
 DRAWN BY: KLY
 CHECKED BY: BDD

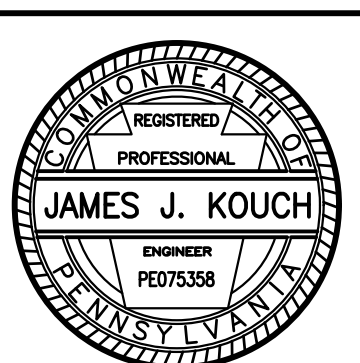
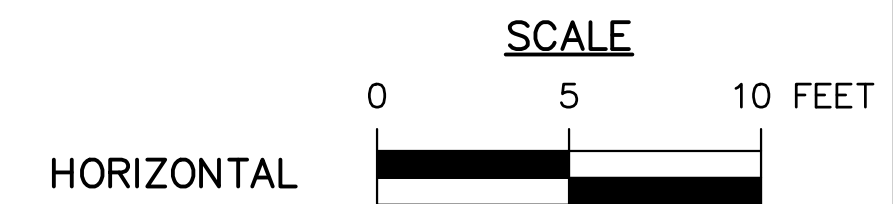
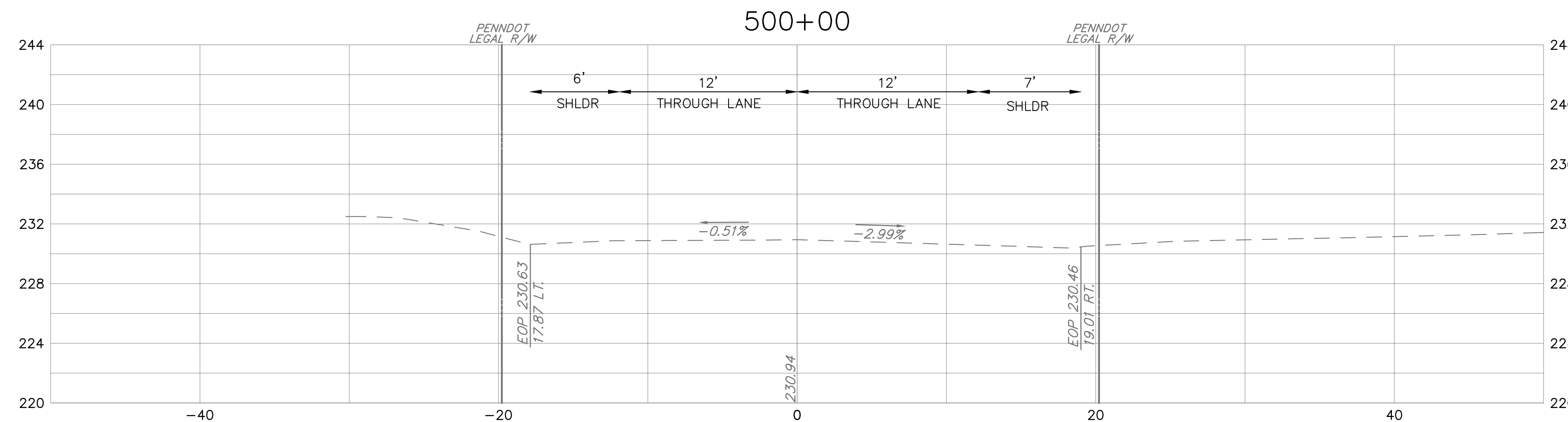
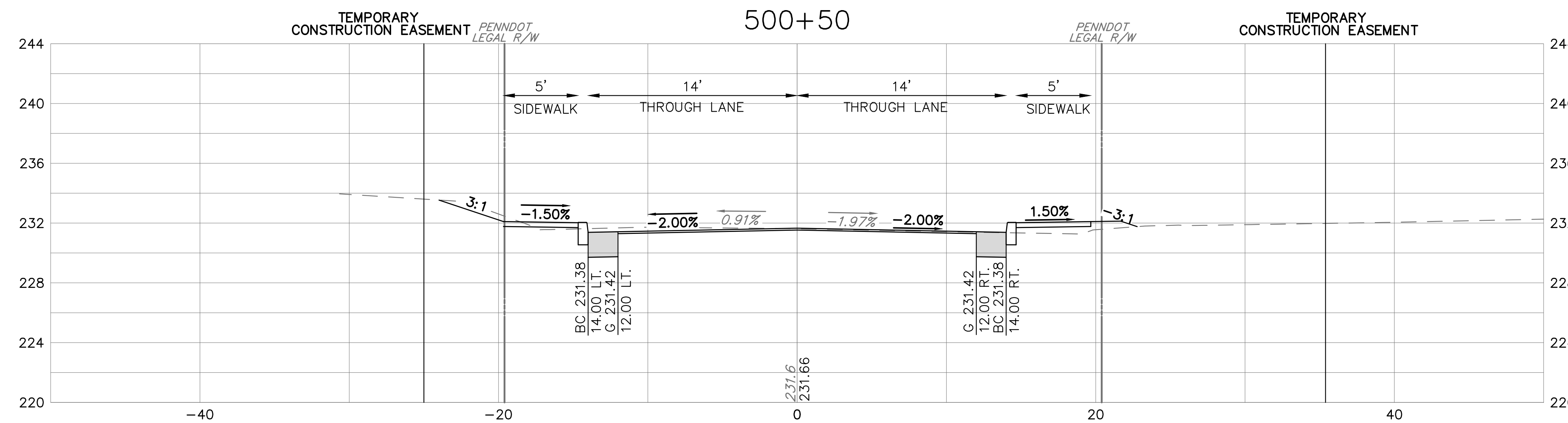
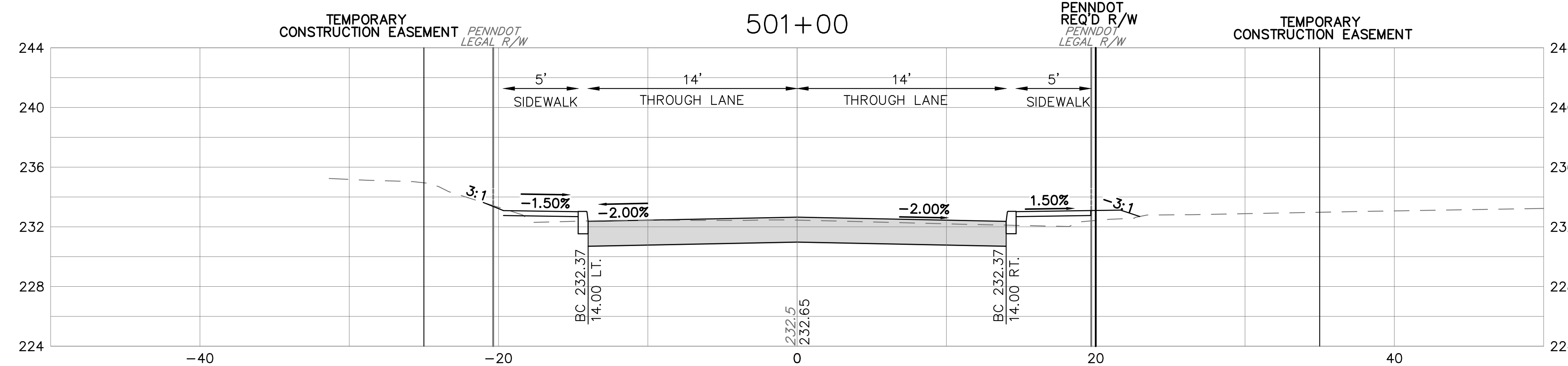
JOB NO: 816506.2A
 DWG: 506XSC01
 DATE: 5/16/18

NORTHAMPTON TOWNSHIP
 55 TOWNSHIP RD
 RICHBORO, PA 18954
 (215) 357-6800

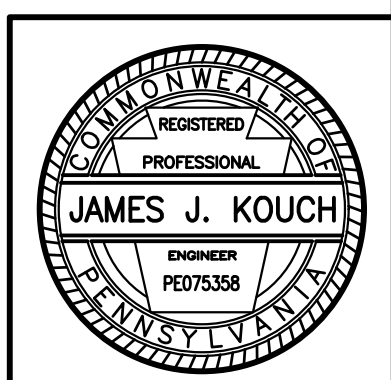
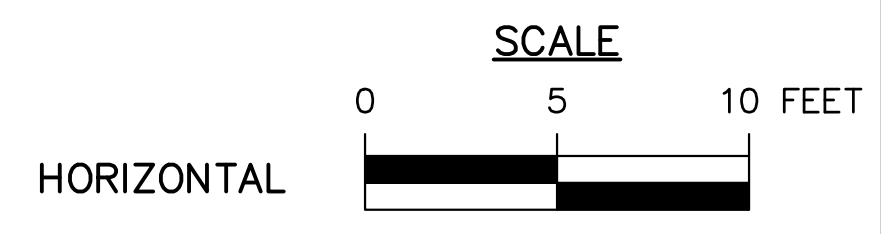
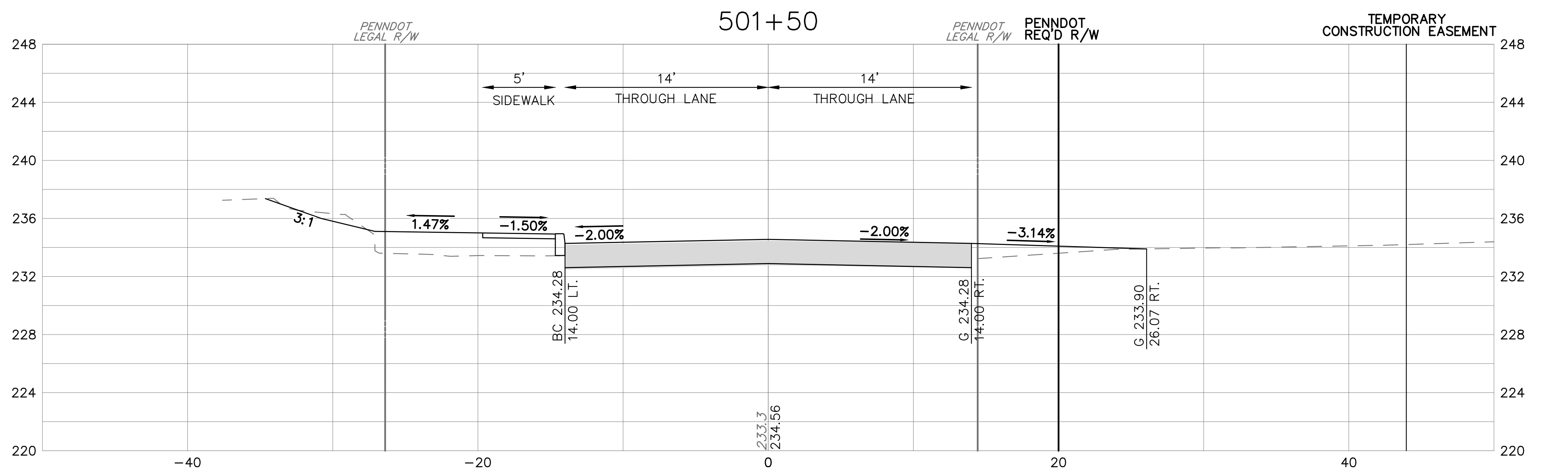
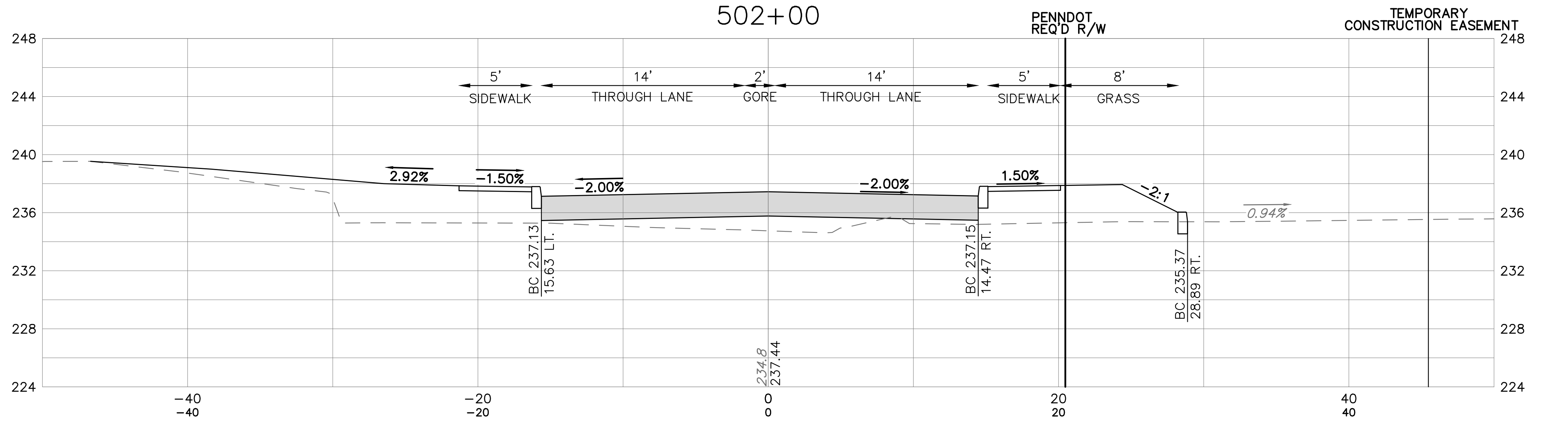
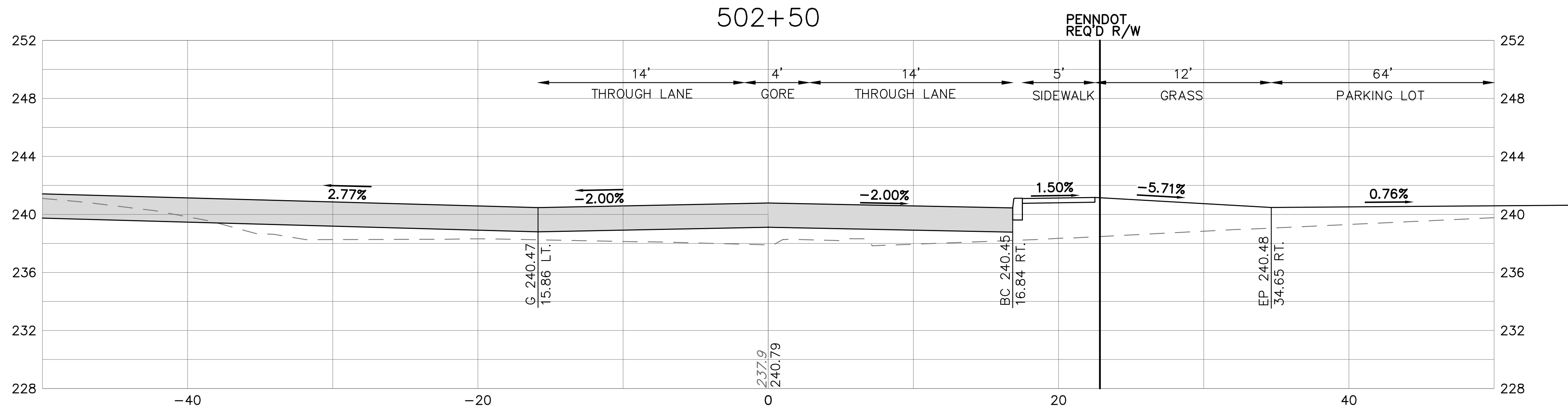
RICHBORO ROUNDABOUT
 2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
 NORTHAMPTON TOWNSHIP
 MONTGOMERY COUNTY

CROSS-SECTIONS
 SECOND STREET PIKE (SR 0232)

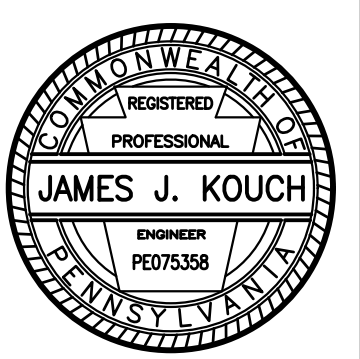
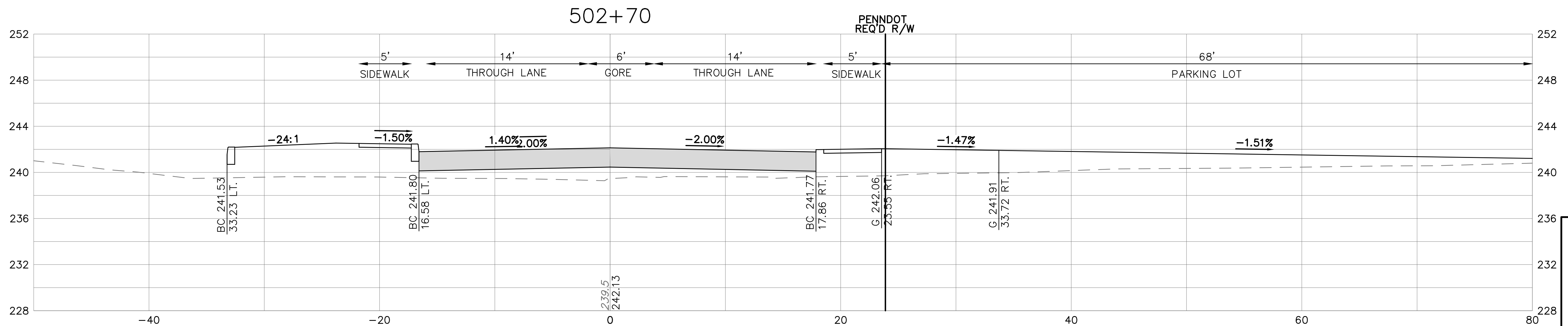
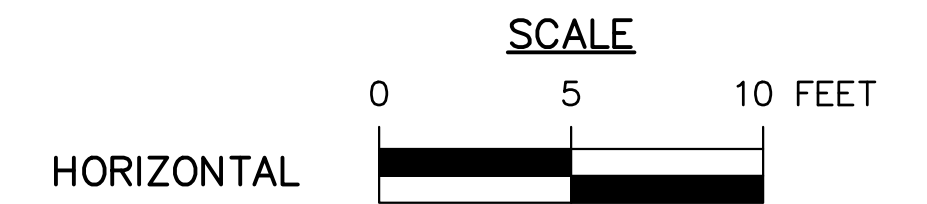
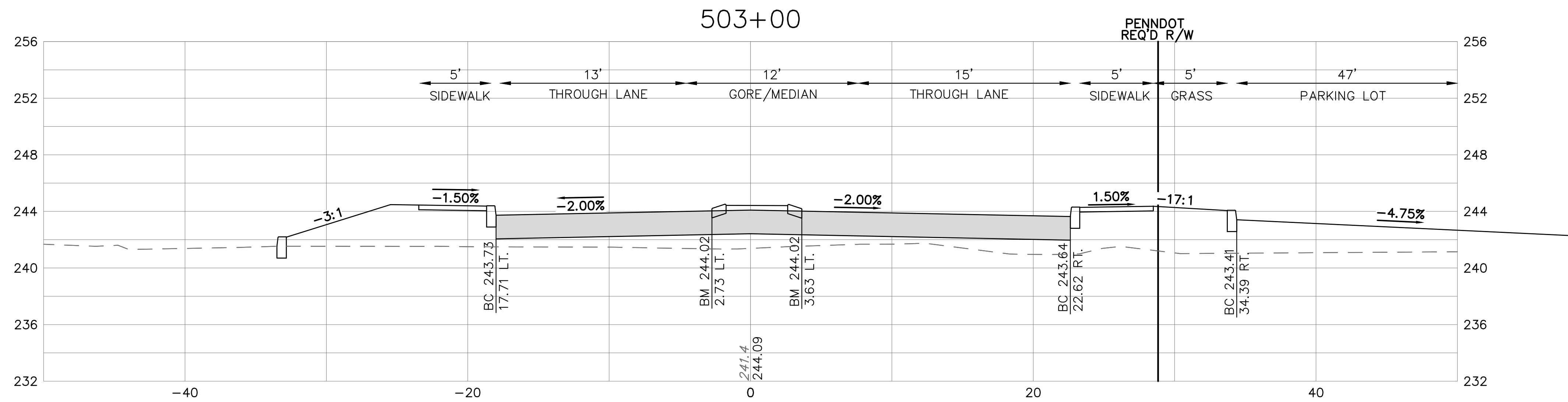
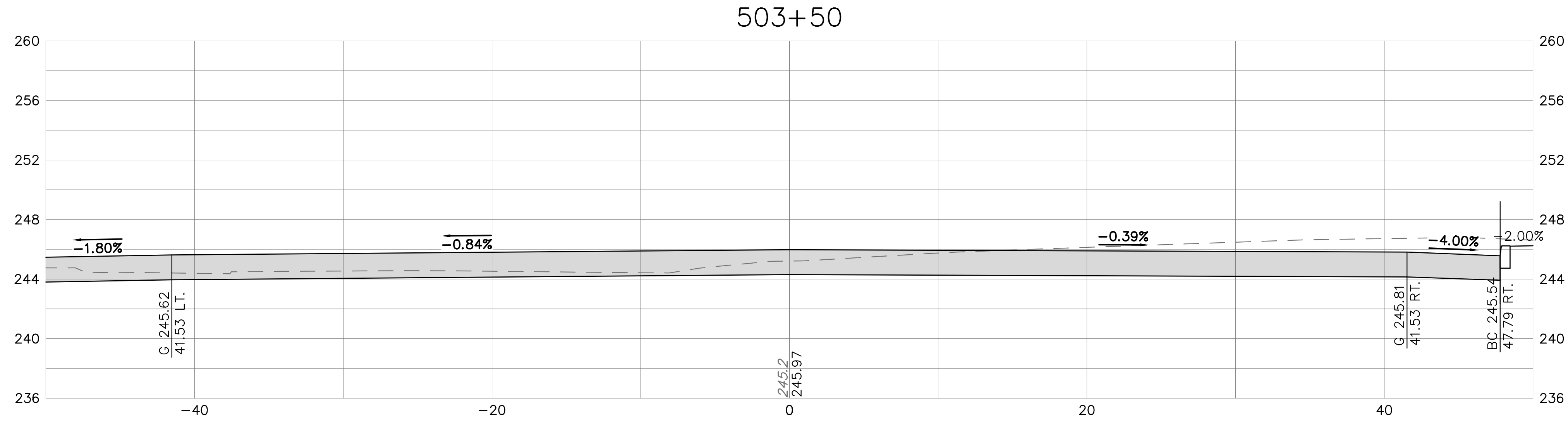
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	49 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	50 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	51 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

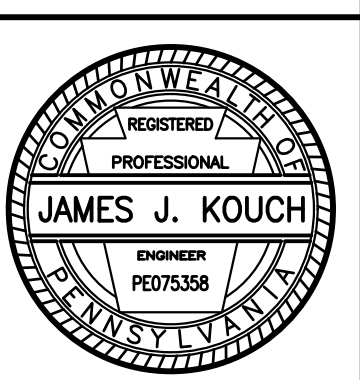
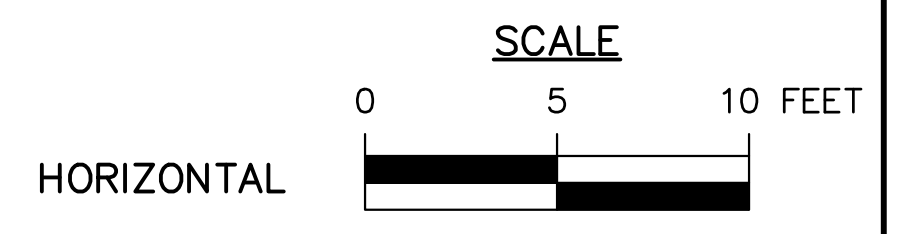
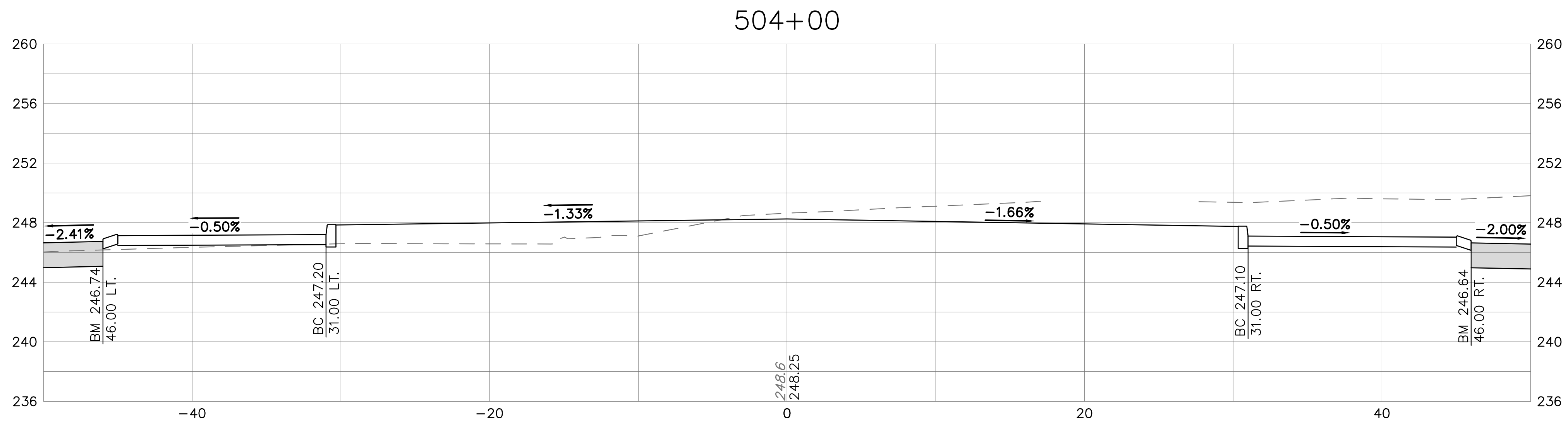
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DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506XSC02
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
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RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
MONTGOMERY COUNTY

CROSS-SECTIONS
BUSTLETON PIKE (SR 2065)

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	52 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506XSC02
DATE: 5/16/18

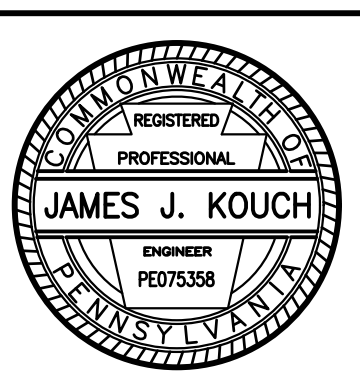
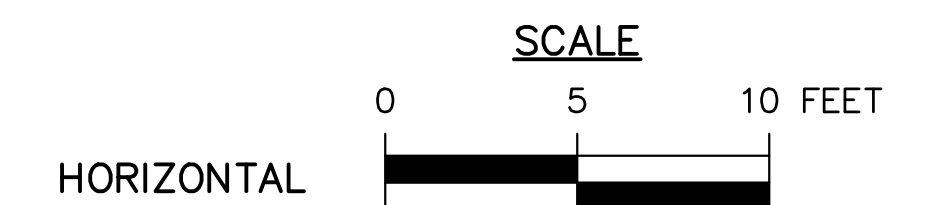
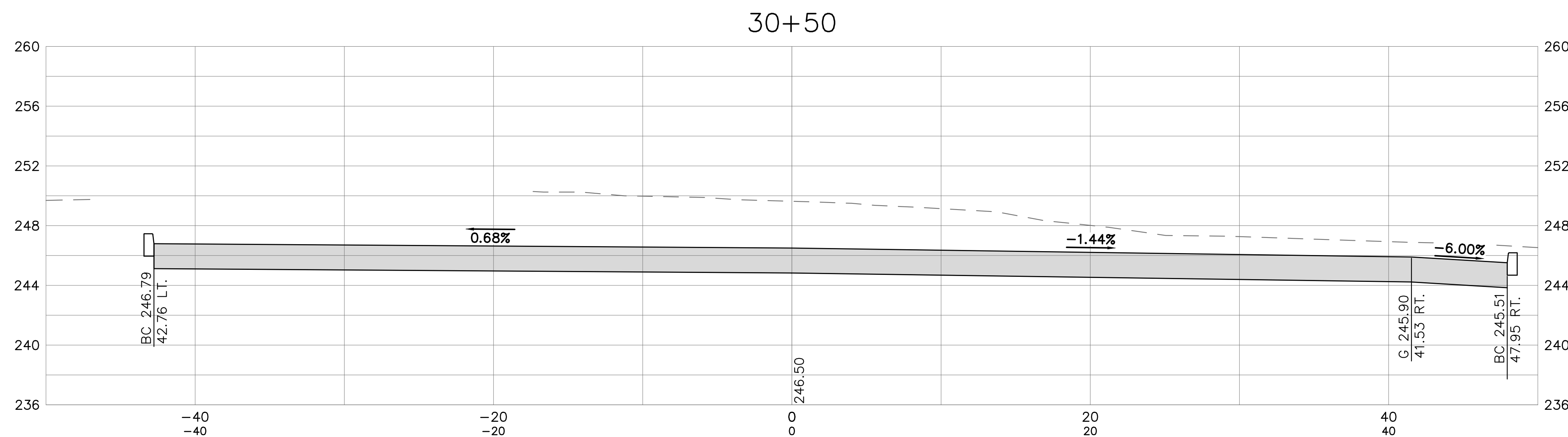
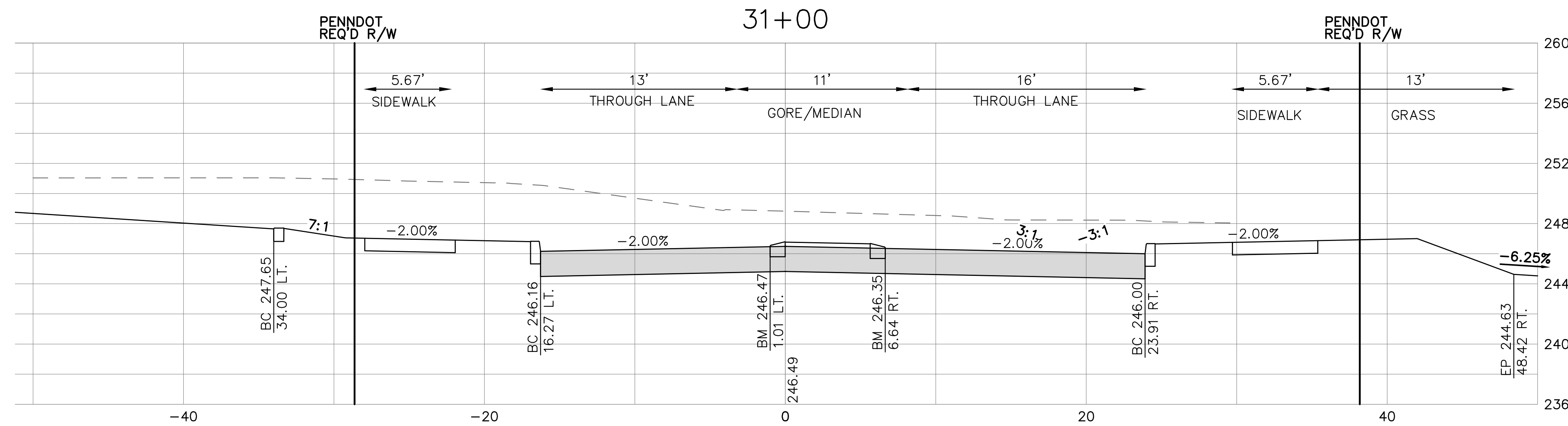
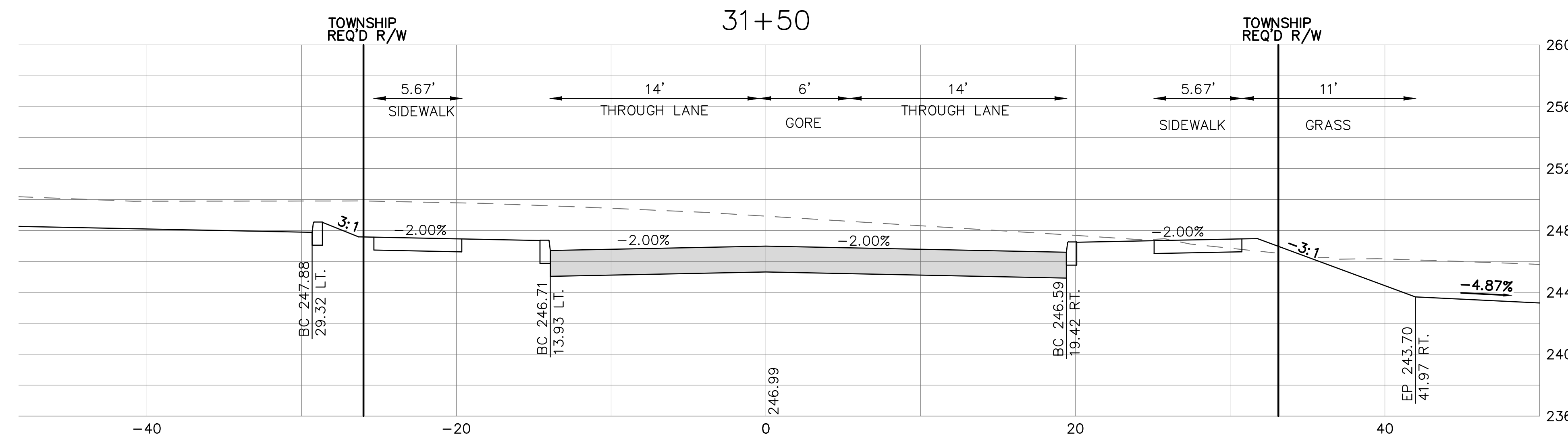
NORTHAMPTON TOWNSHIP
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RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
MONTGOMERY COUNTY

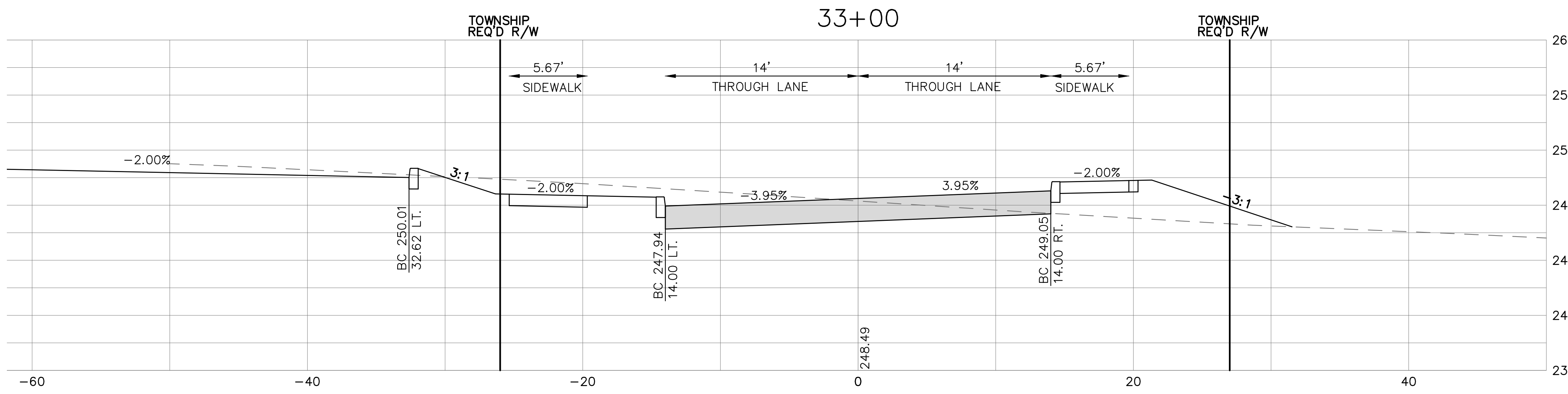
CROSS-SECTIONS
BUSTLETON PIKE (SR 2065)

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	53 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

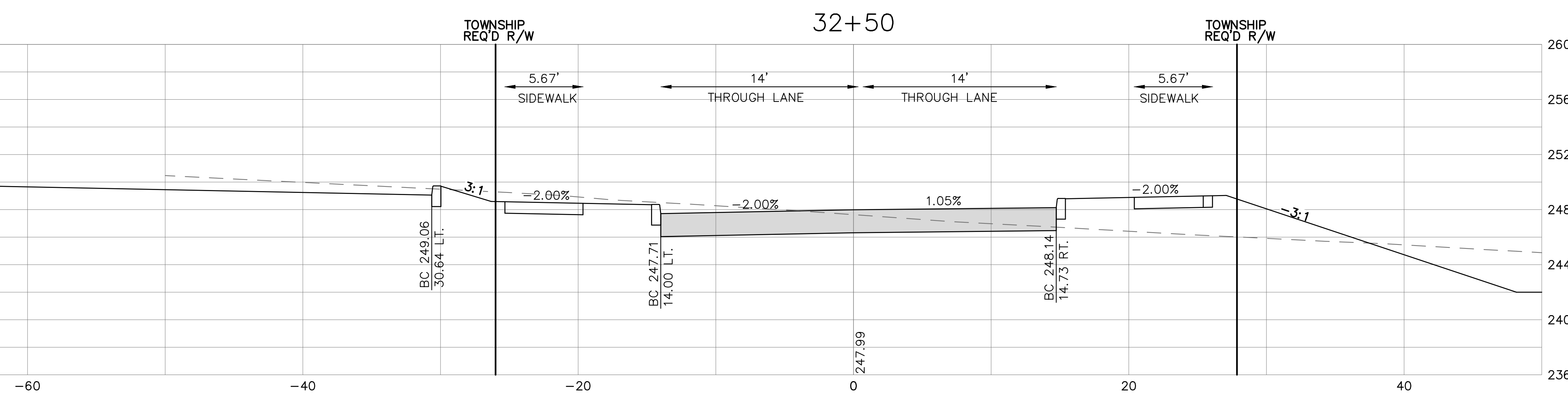
STA. 31+96.90 END NORMAL CROWN
BEGIN TANGENT RUNOUT



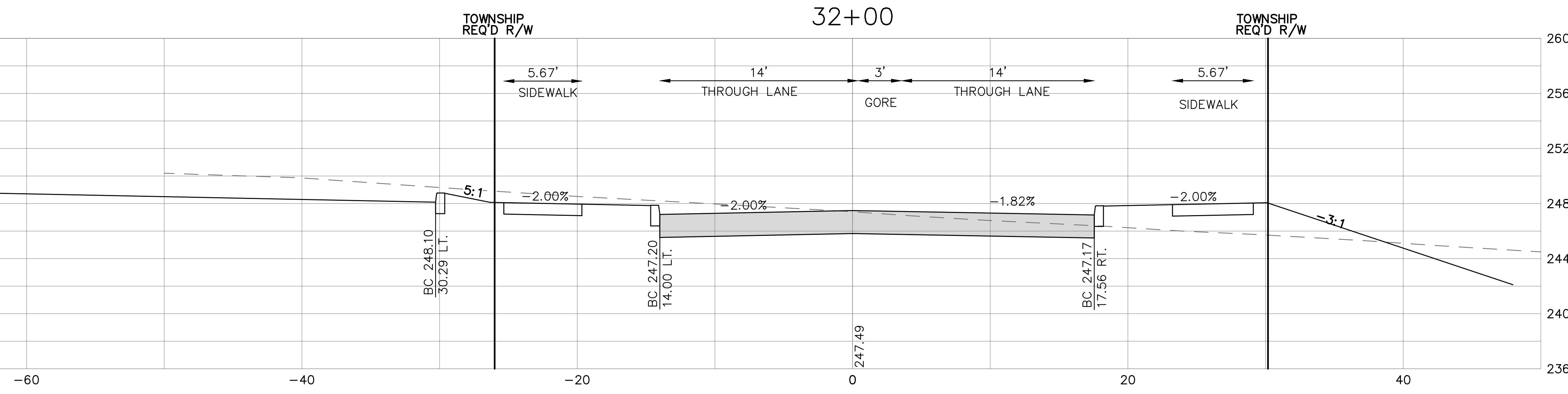
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	54 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



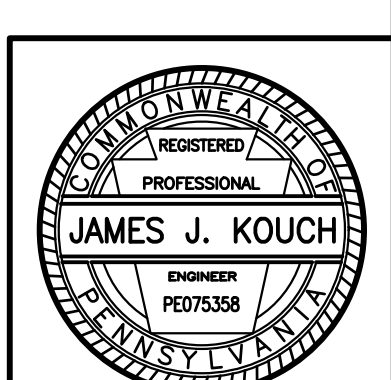
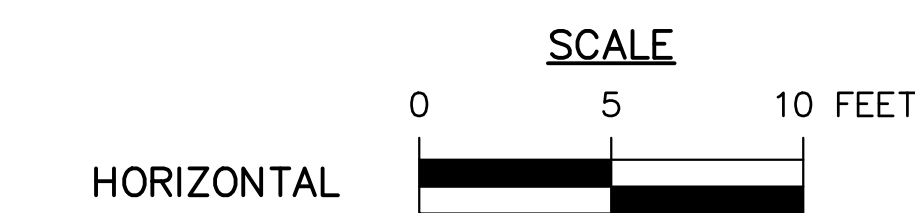
STA. 33+00.90 END SUPERELEVATION RUNOFF
BEGIN FULL SUPERELEVATION



STA. 32+31.90 END TANGENT RUNOUT
BEGIN SUPERELEVATION RUNOFF



STA. 31+96.90 END NORMAL CROWN
236 BEGIN TANGENT RUNOUT



425 COMMERCE DRIVE
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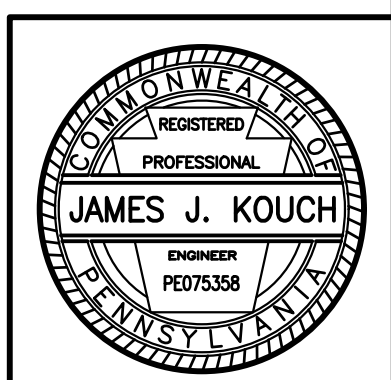
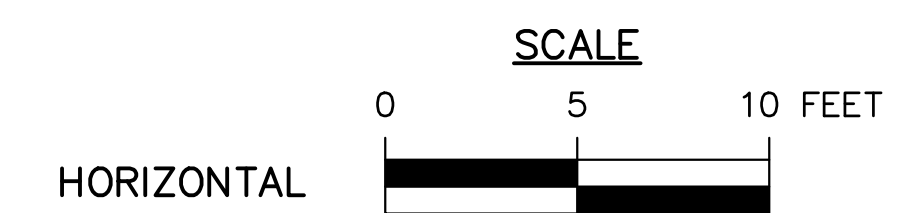
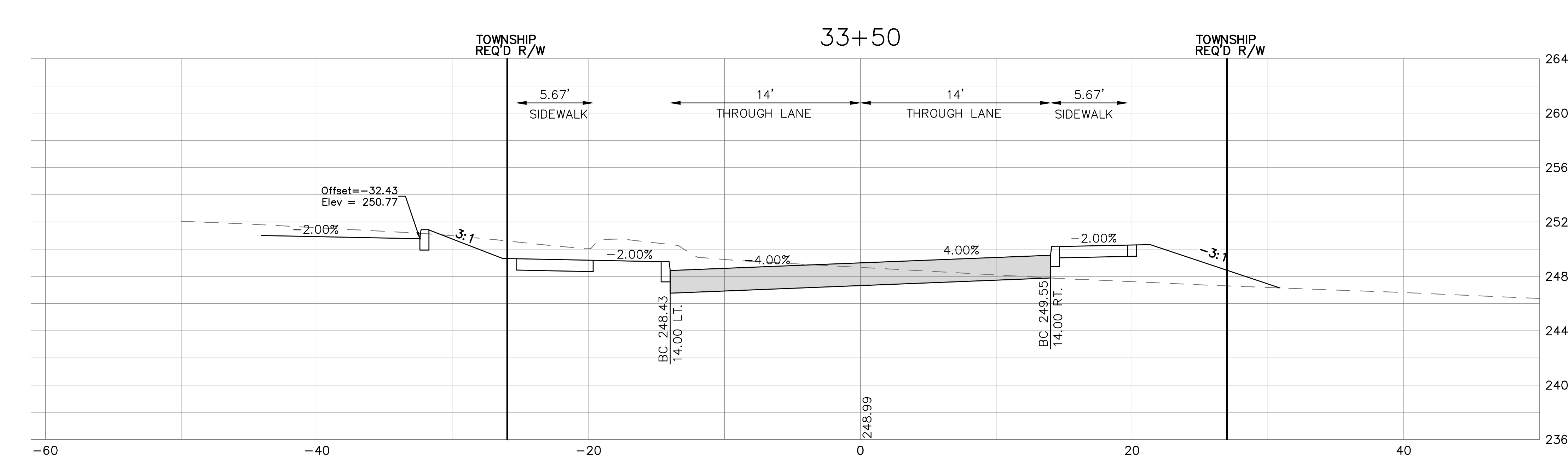
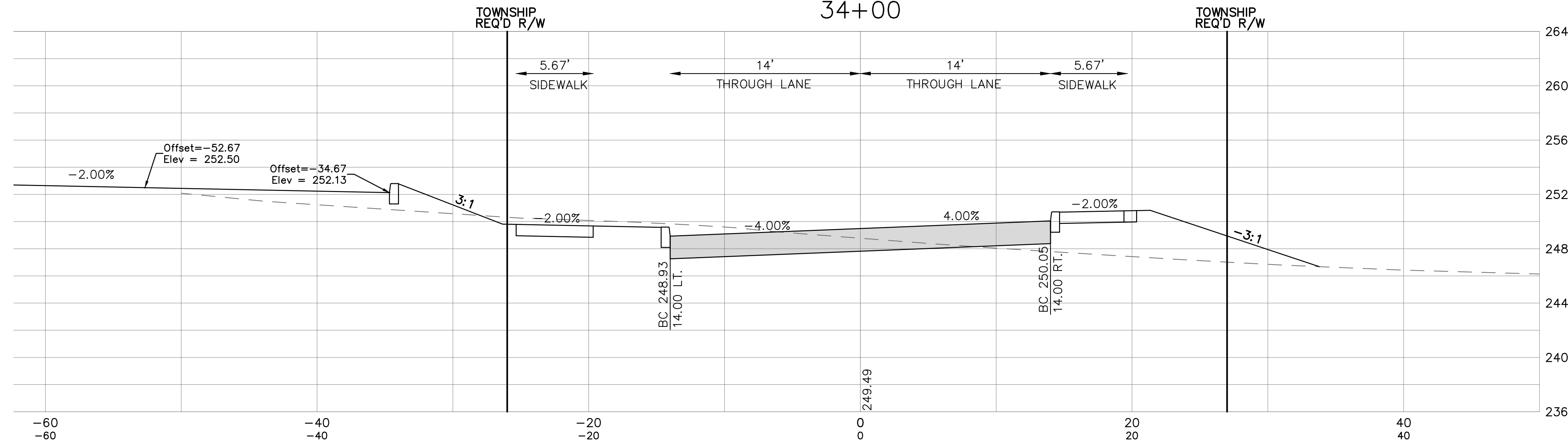
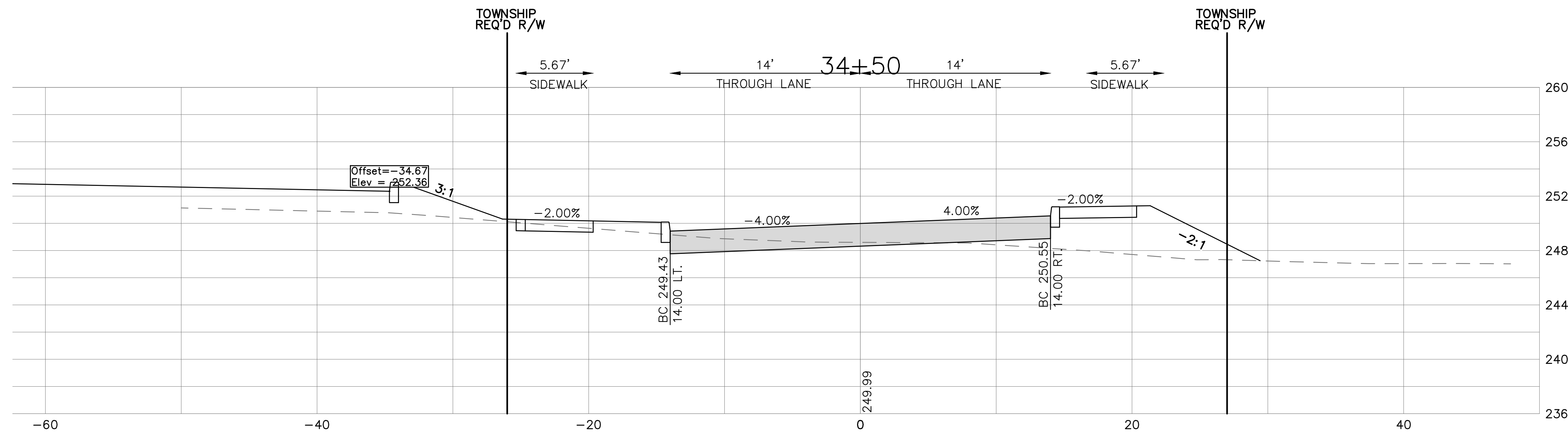
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DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506XSC03
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
MONTGOMERY COUNTY

CROSS-SECTIONS
TOWNSHIP ROAD (T-605)

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	55 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



STA. 33+00.90 END SUPERELEVATION RUNOFF
BEGIN FULL SUPERELEVATION



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

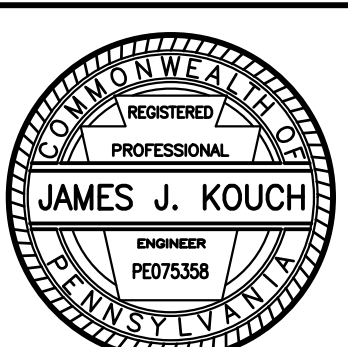
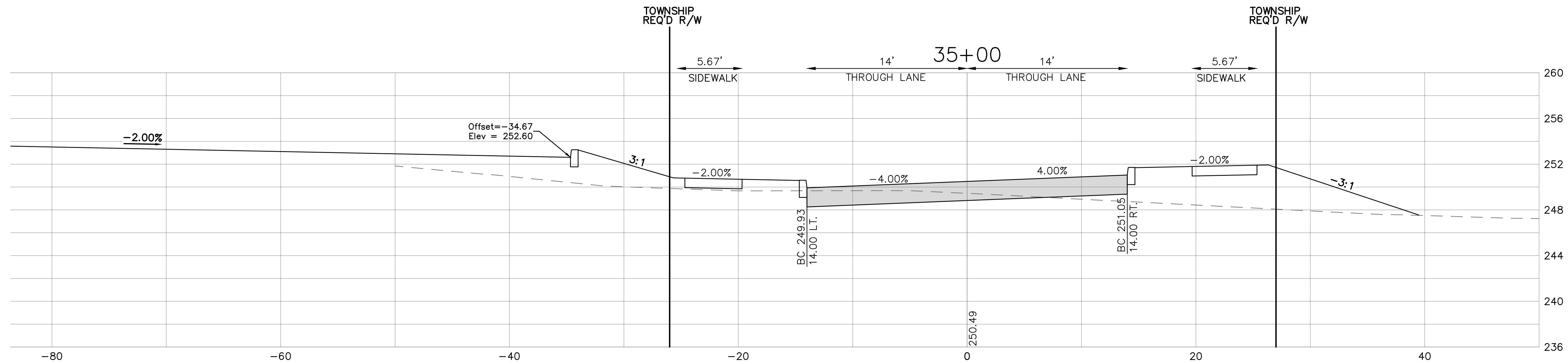
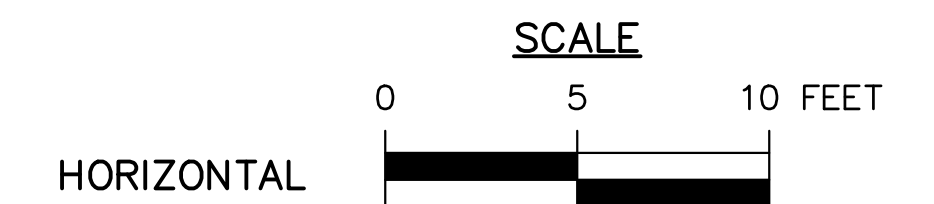
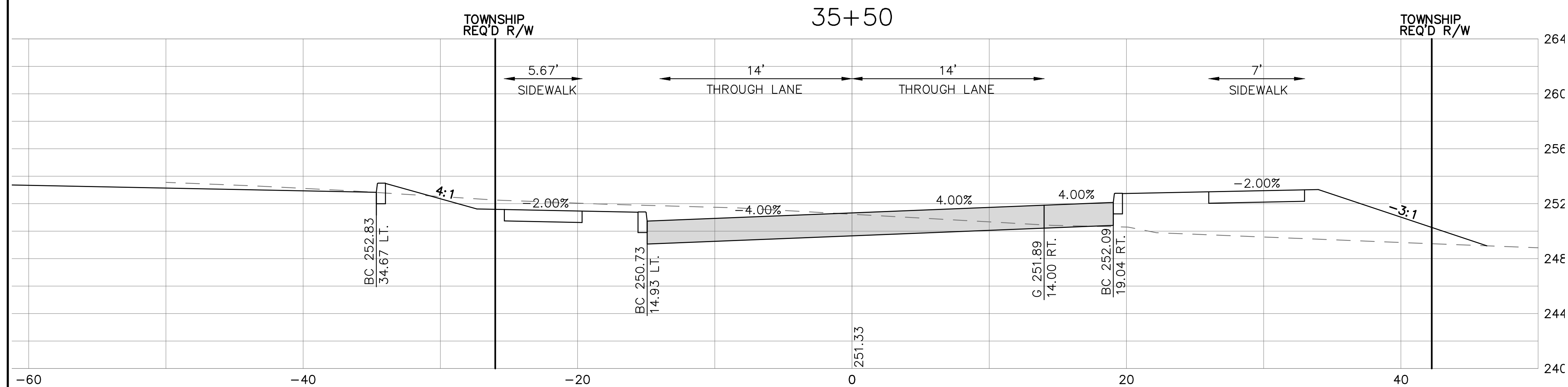
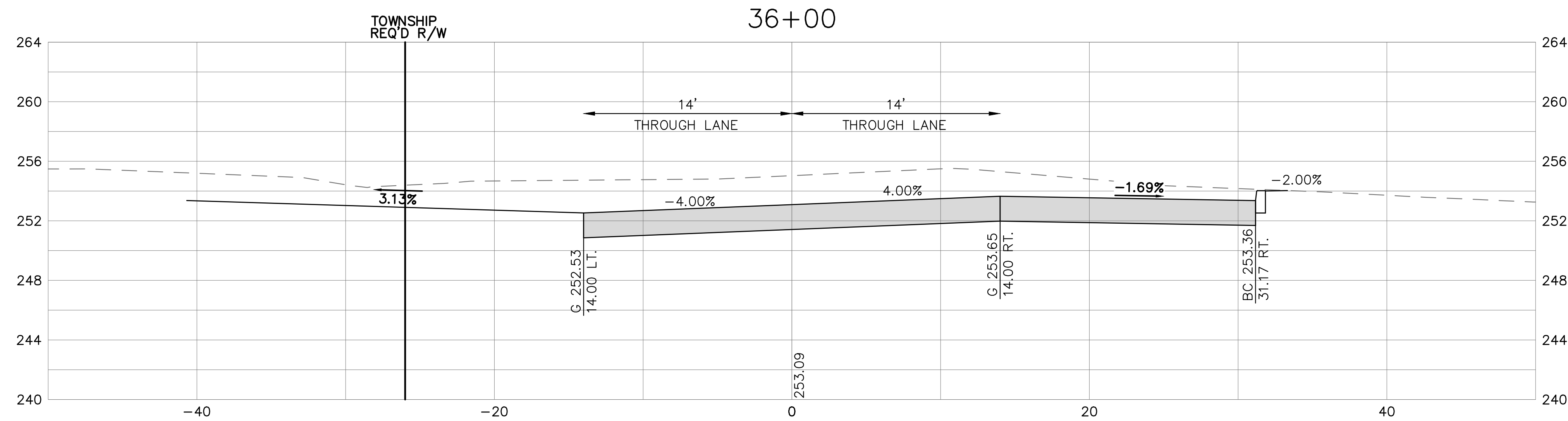
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CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506XSC03
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

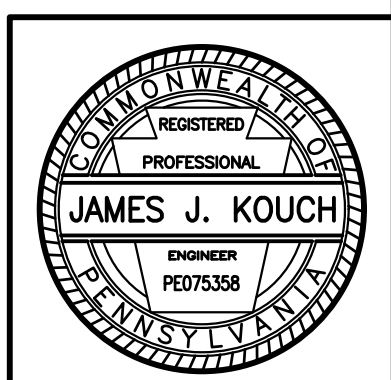
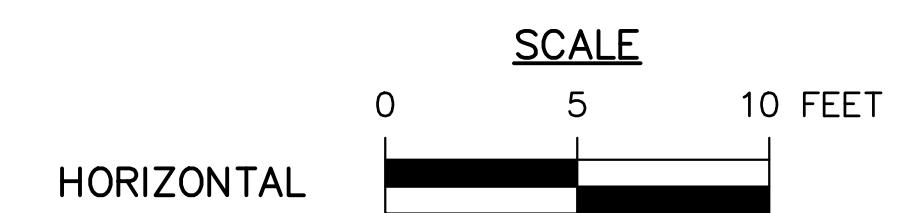
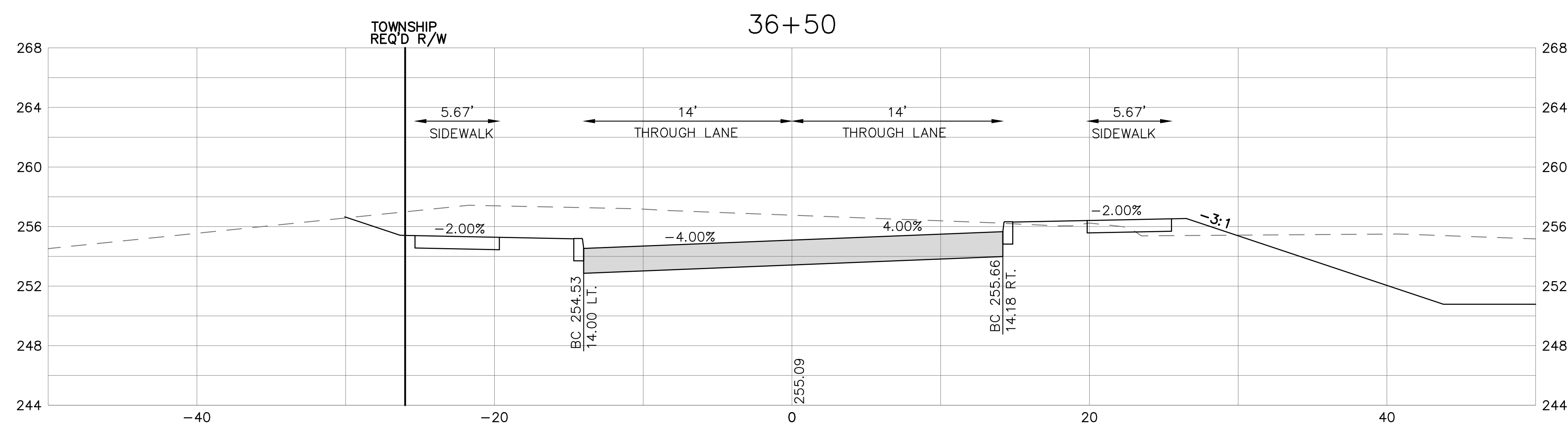
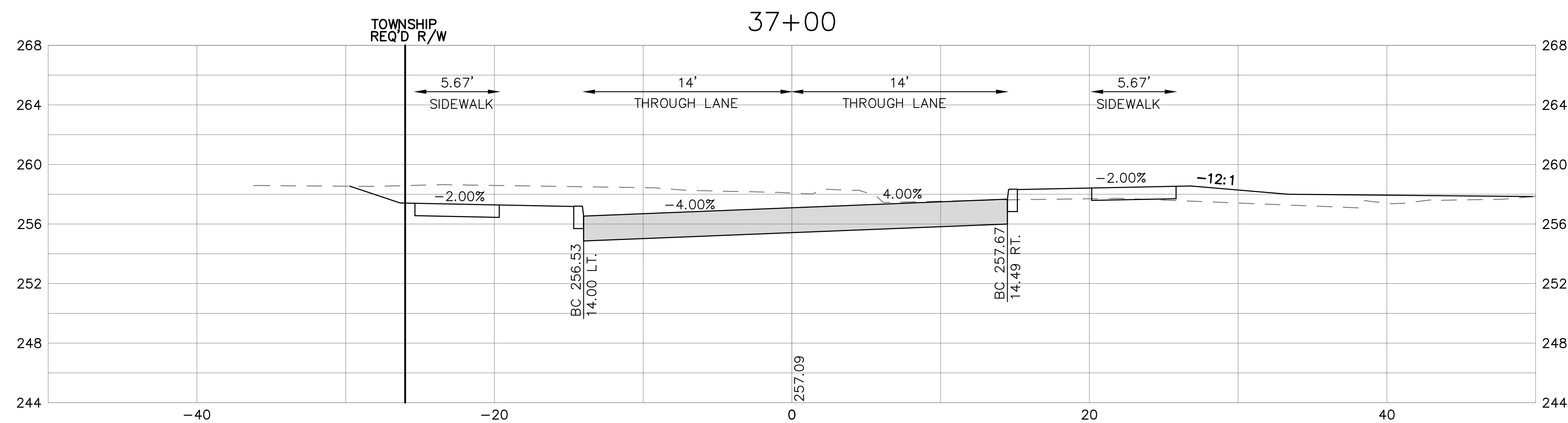
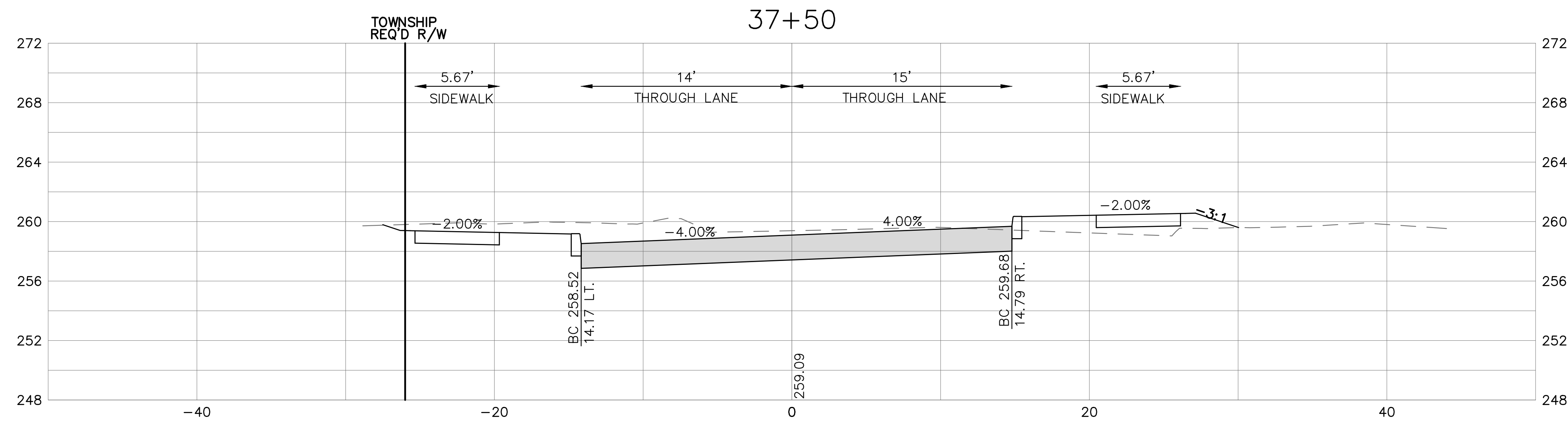
RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
MONTGOMERY COUNTY

CROSS-SECTIONS
TOWNSHIP ROAD (T-605)

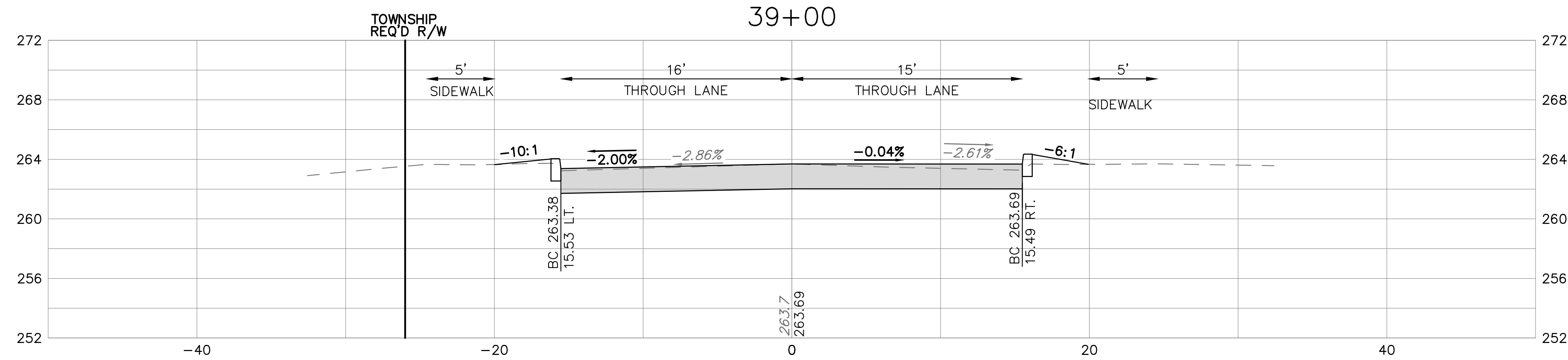
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	56 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



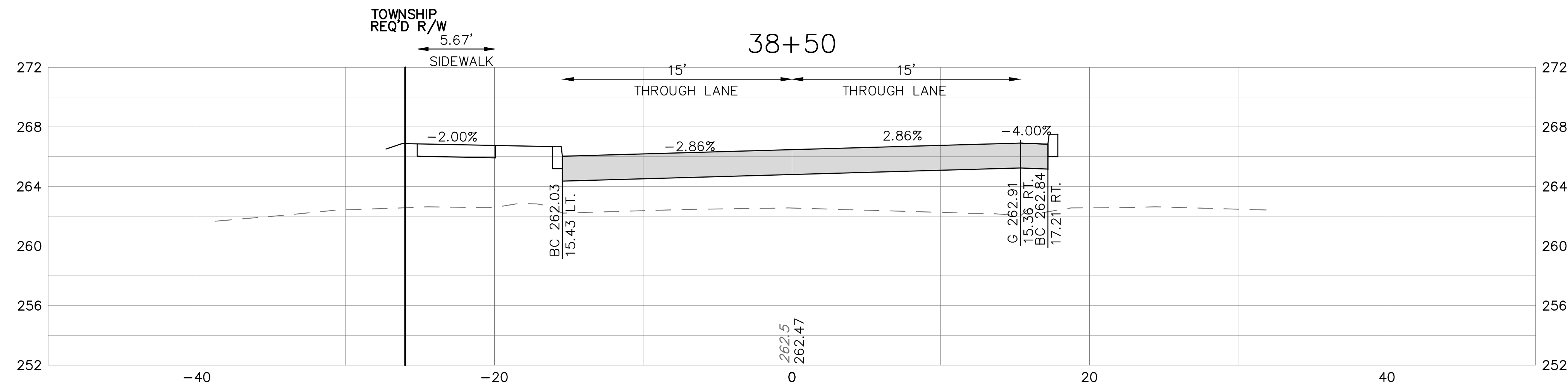
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	57 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



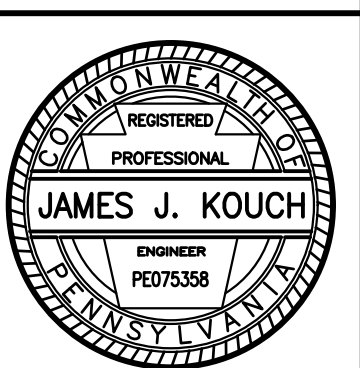
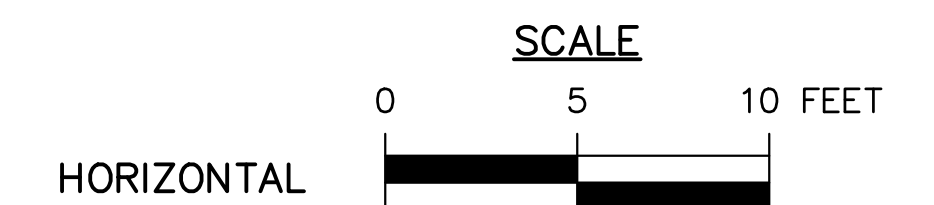
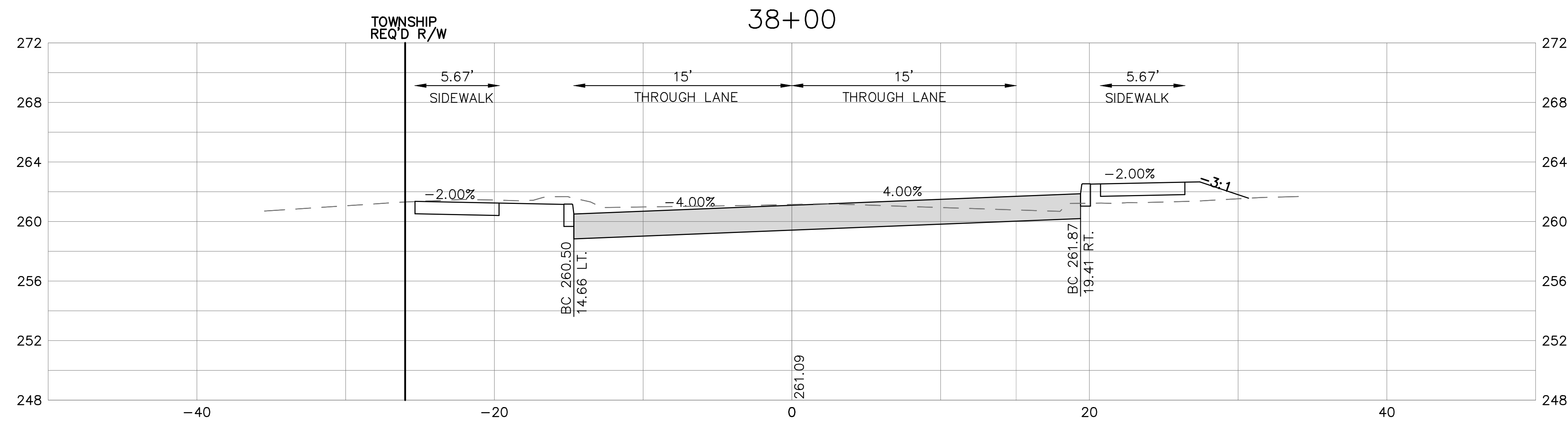
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	58 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



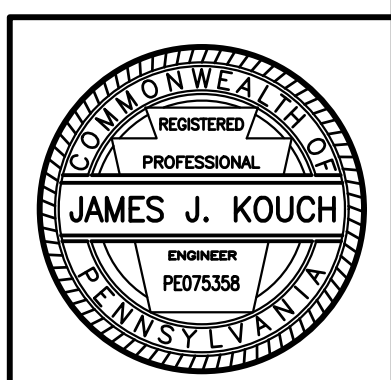
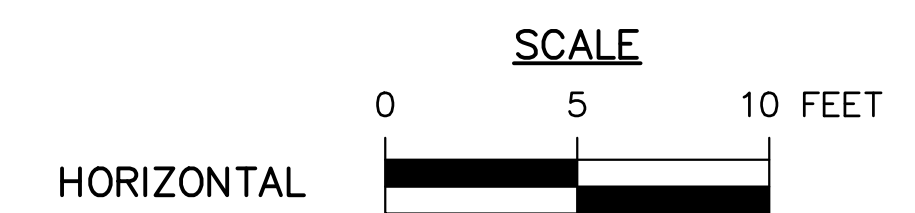
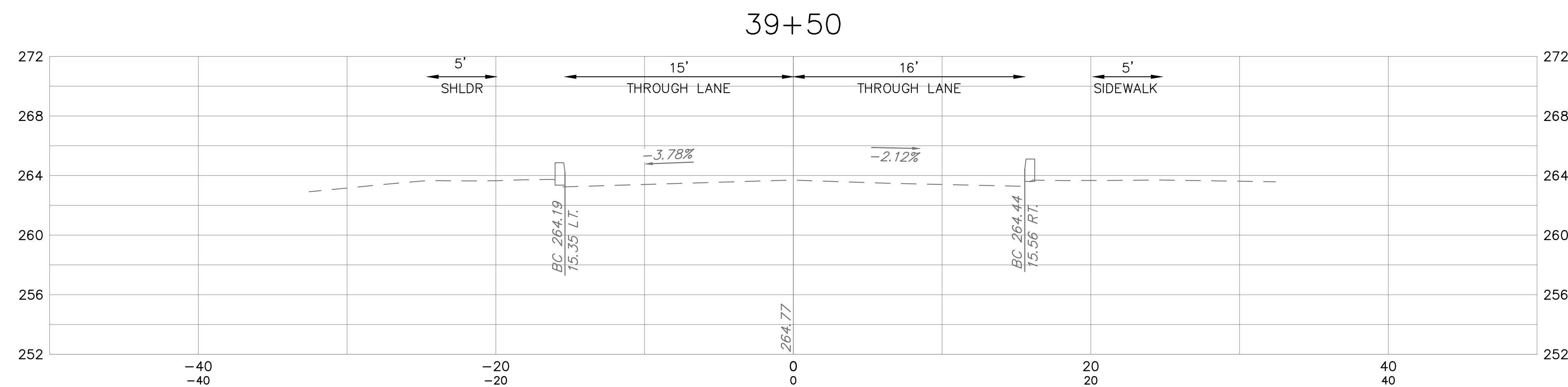
STA. 39+34.34 END TANGENT RUNOUT
BEGIN NORMAL CROWN



STA. 38+30.34 END FULL SUPERELEVATION
BEGIN SUPERELEVATION RUNOFF



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	59 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



STA. 39+34.34 END TANGENT RUNOUT
BEGIN NORMAL CROWN



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD

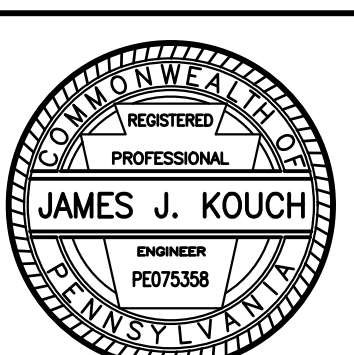
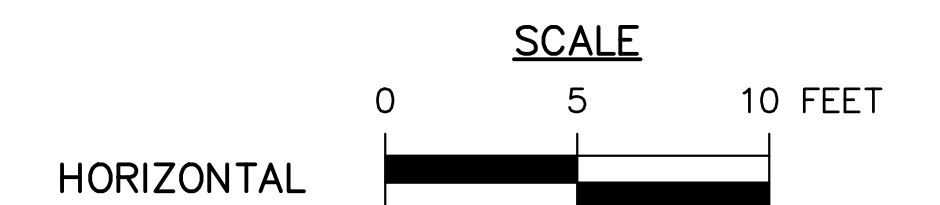
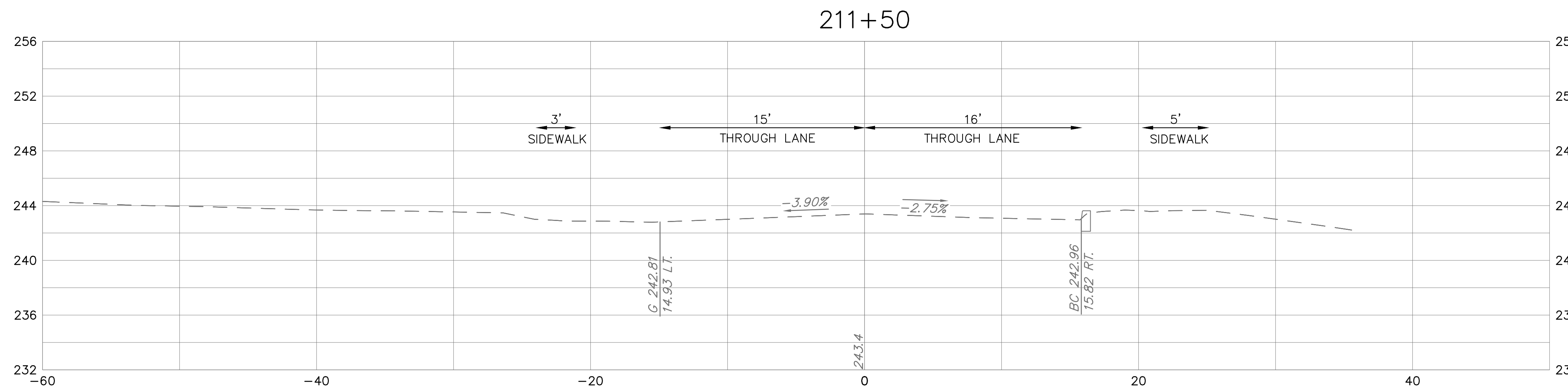
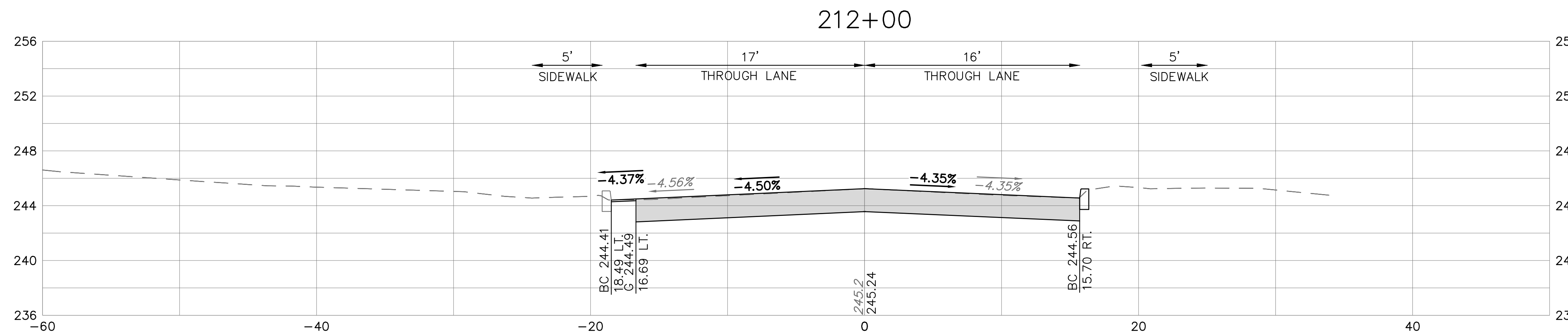
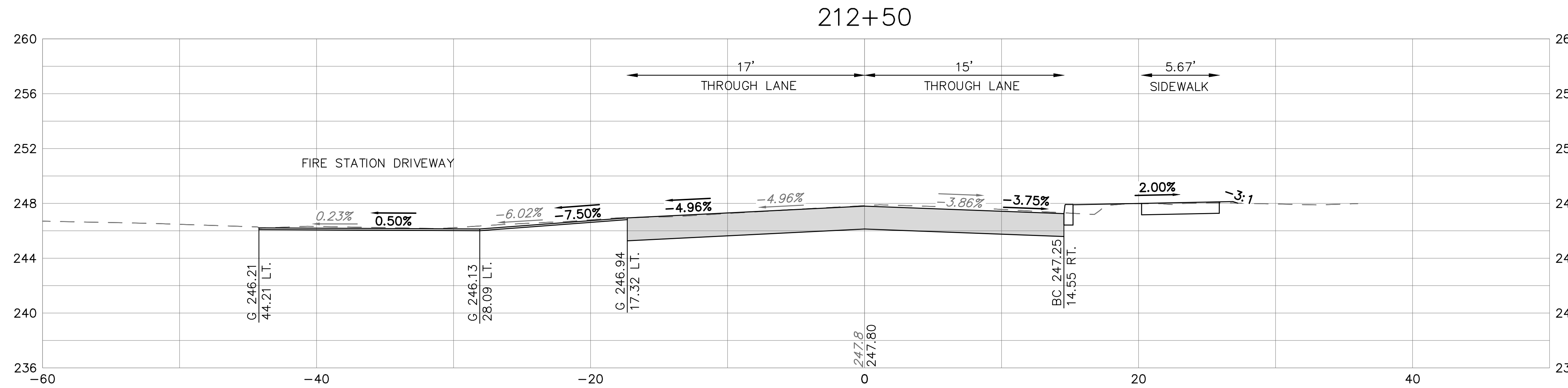
JOB NO: 816506.2A
DWG: 506XSC03
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

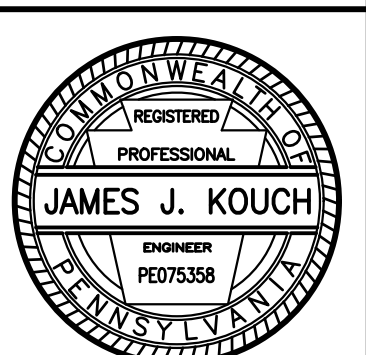
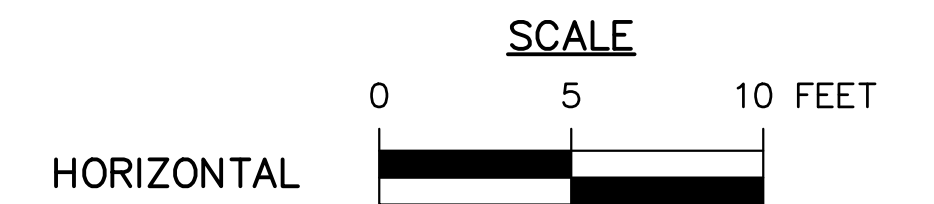
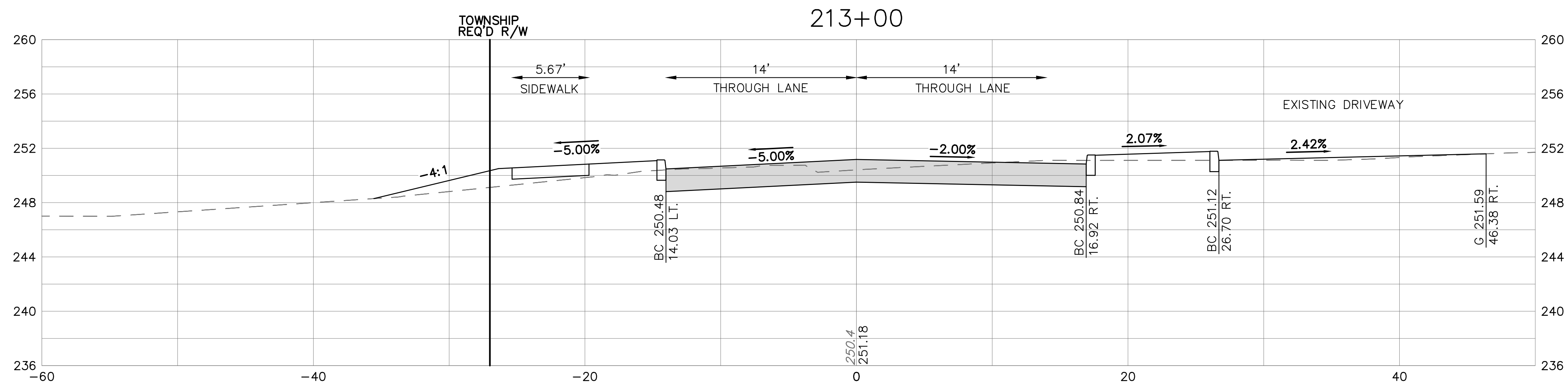
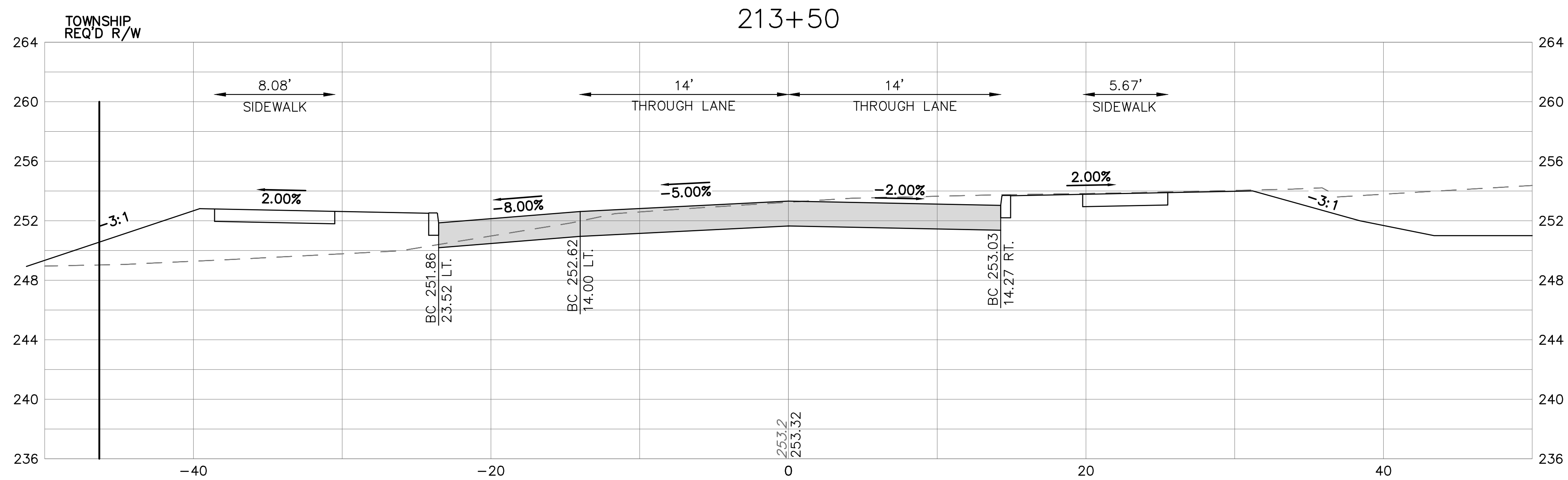
RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
MONTGOMERY COUNTY

CROSS-SECTIONS
TOWNSHIP ROAD (T-605)

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	60 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	61 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD

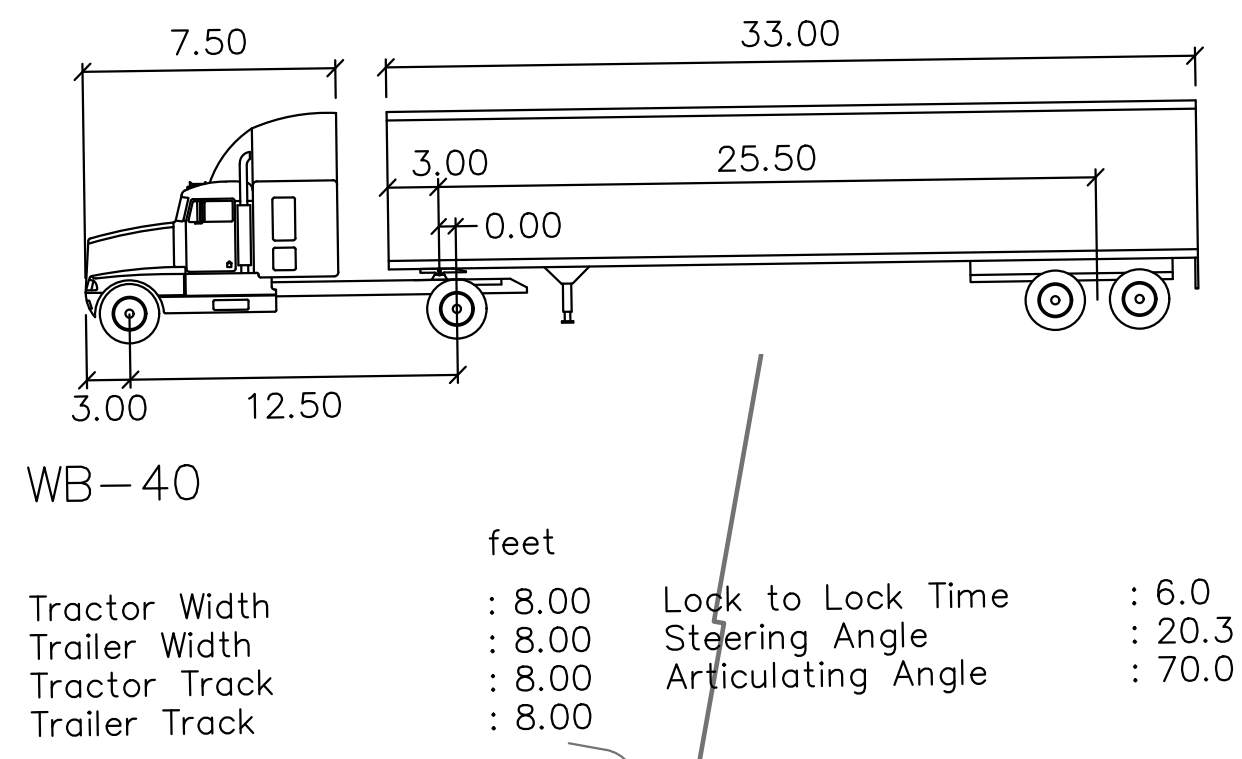
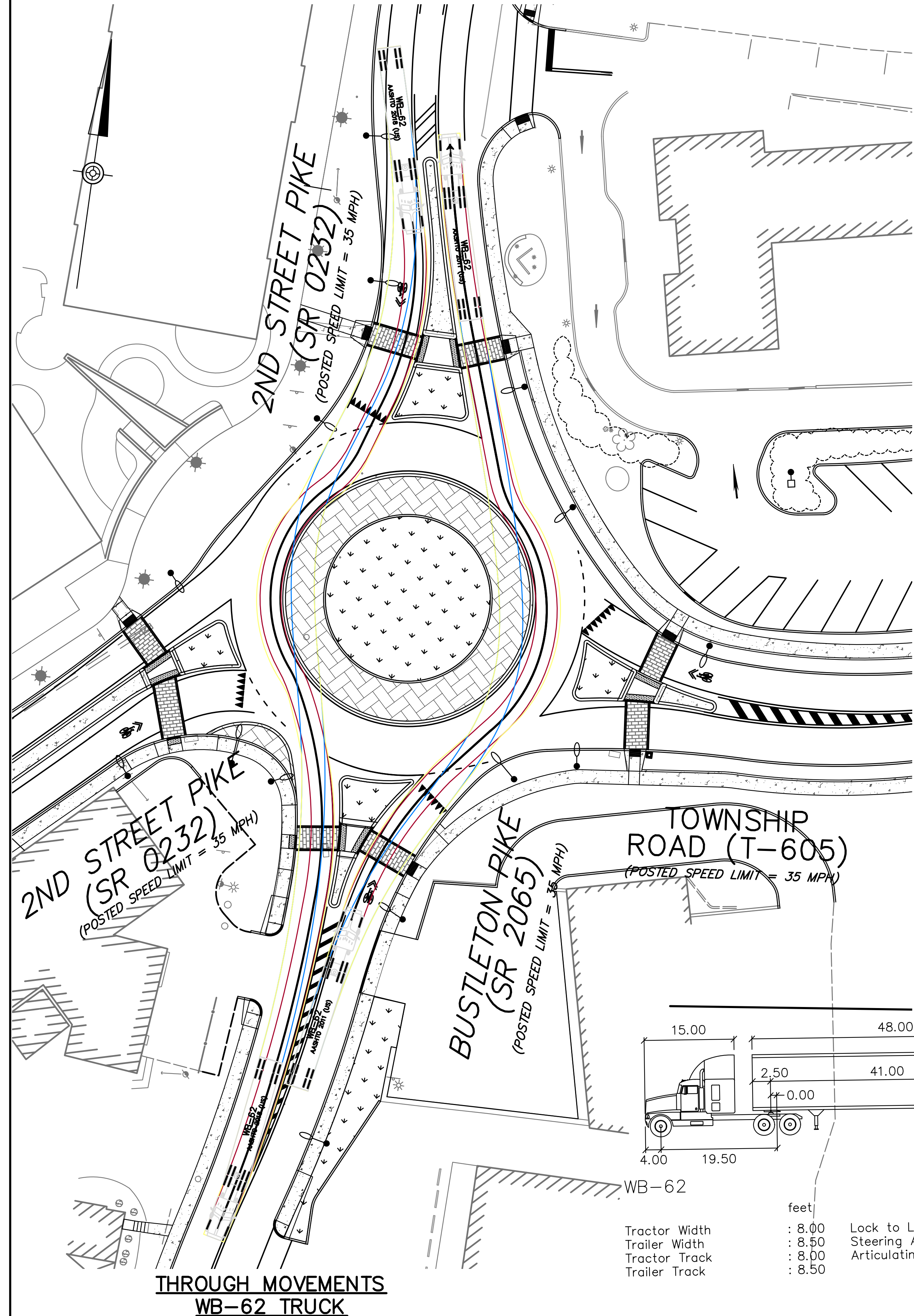
JOB NO: 816506.2A
DWG: 506XSC04
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
MONTGOMERY COUNTY

CROSS-SECTIONS
OLD TOWNSHIP ROAD

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	62 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

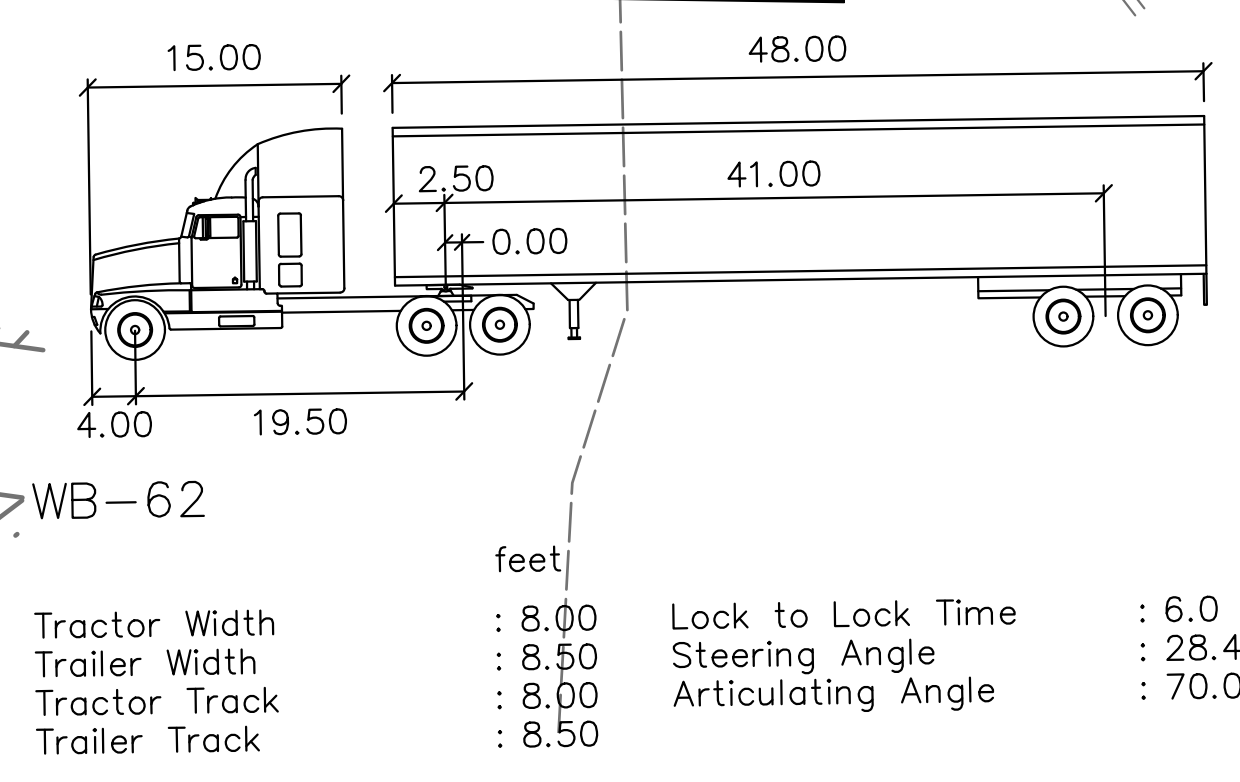
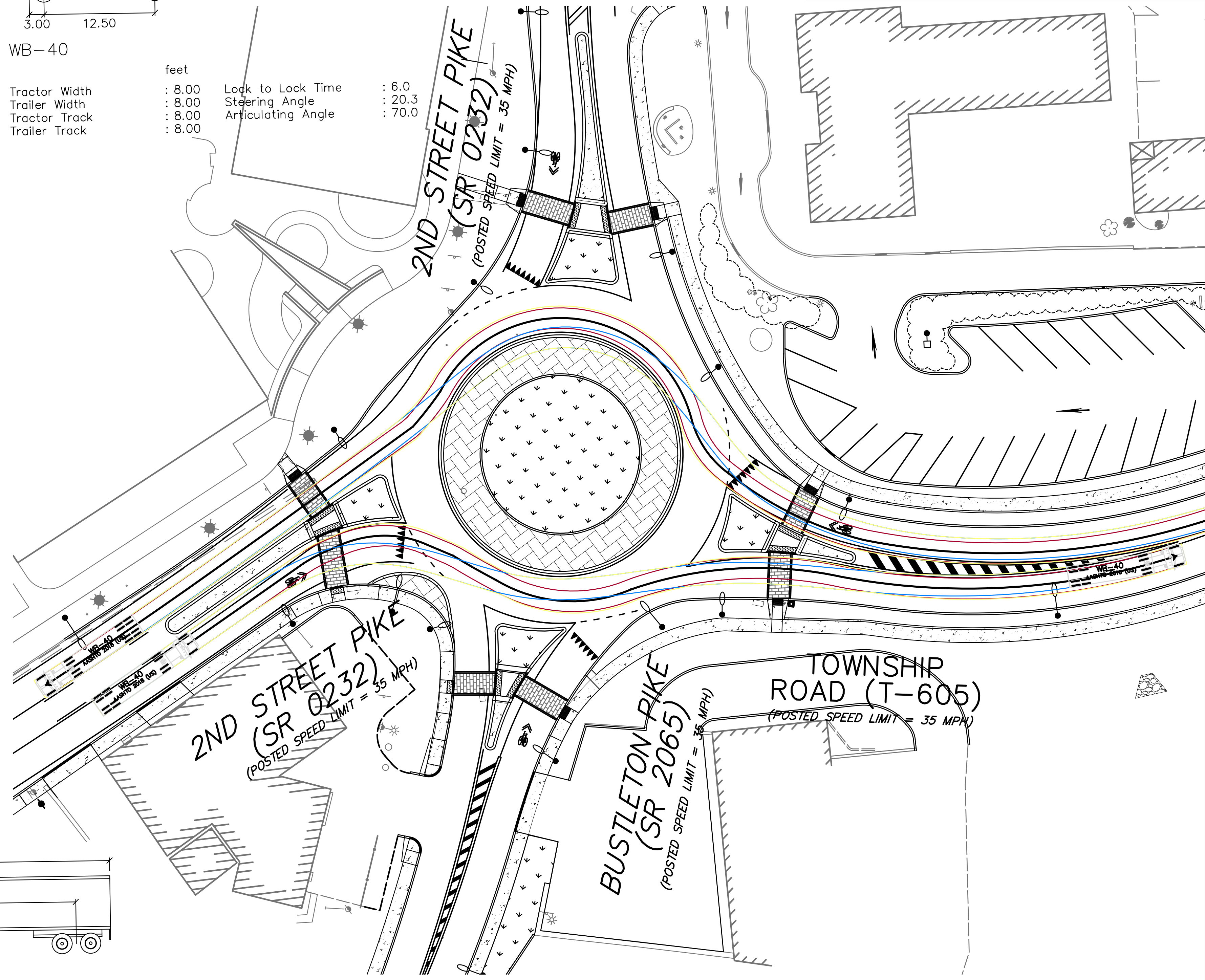


WB-40

feet

Tractor Width : 8.00
Trailer Width : 8.00
Tractor Track : 8.00
Trailer Track : 8.00

Lock to Lock Time : 6.0
Steering Angle : 20.3
Articulating Angle : 70.0



WB-62

feet

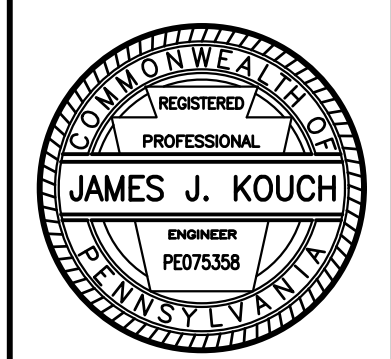
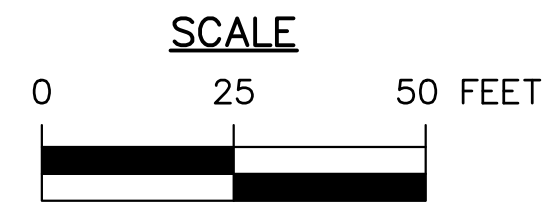
Tractor Width : 8.00
Trailer Width : 8.50
Tractor Track : 8.00
Trailer Track : 8.50

Lock to Lock Time : 6.0
Steering Angle : 28.4
Articulating Angle : 70.0

LEGEND

- FRONT TIRES
- REAR TIRES
- VEHICLE BODY
- CENTERLINE PATH

**THROUGH MOVEMENTS
WB-40 TRUCK**



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD

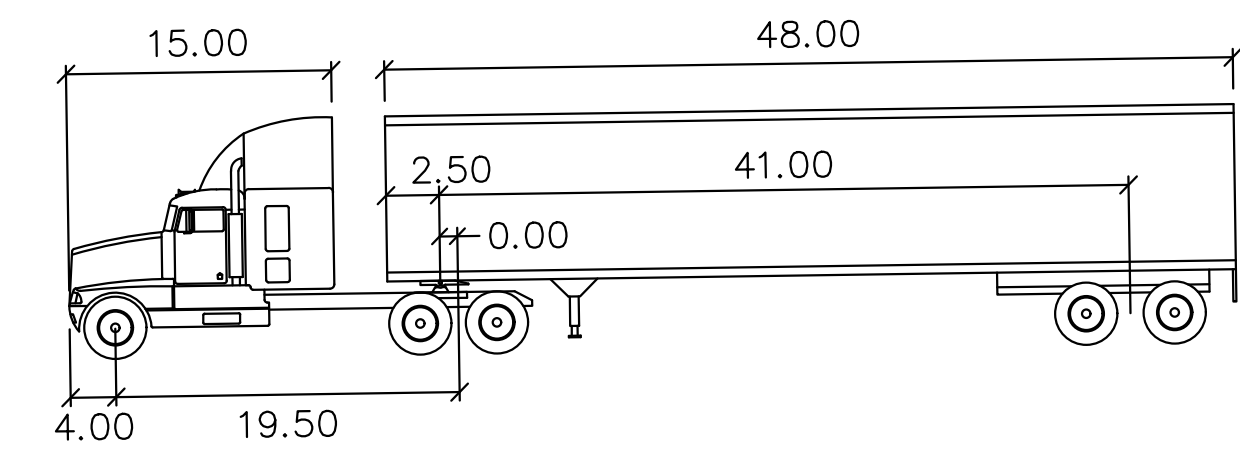
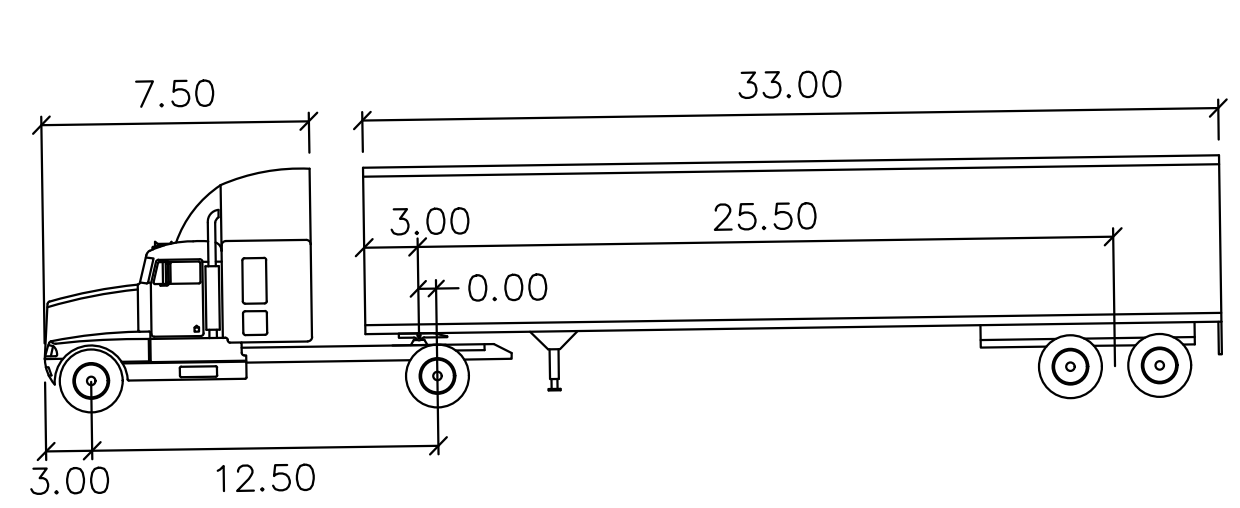
JOB NO: 816506.2A
DWG: 506TRK01
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

TRUCK TURNING PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	63 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

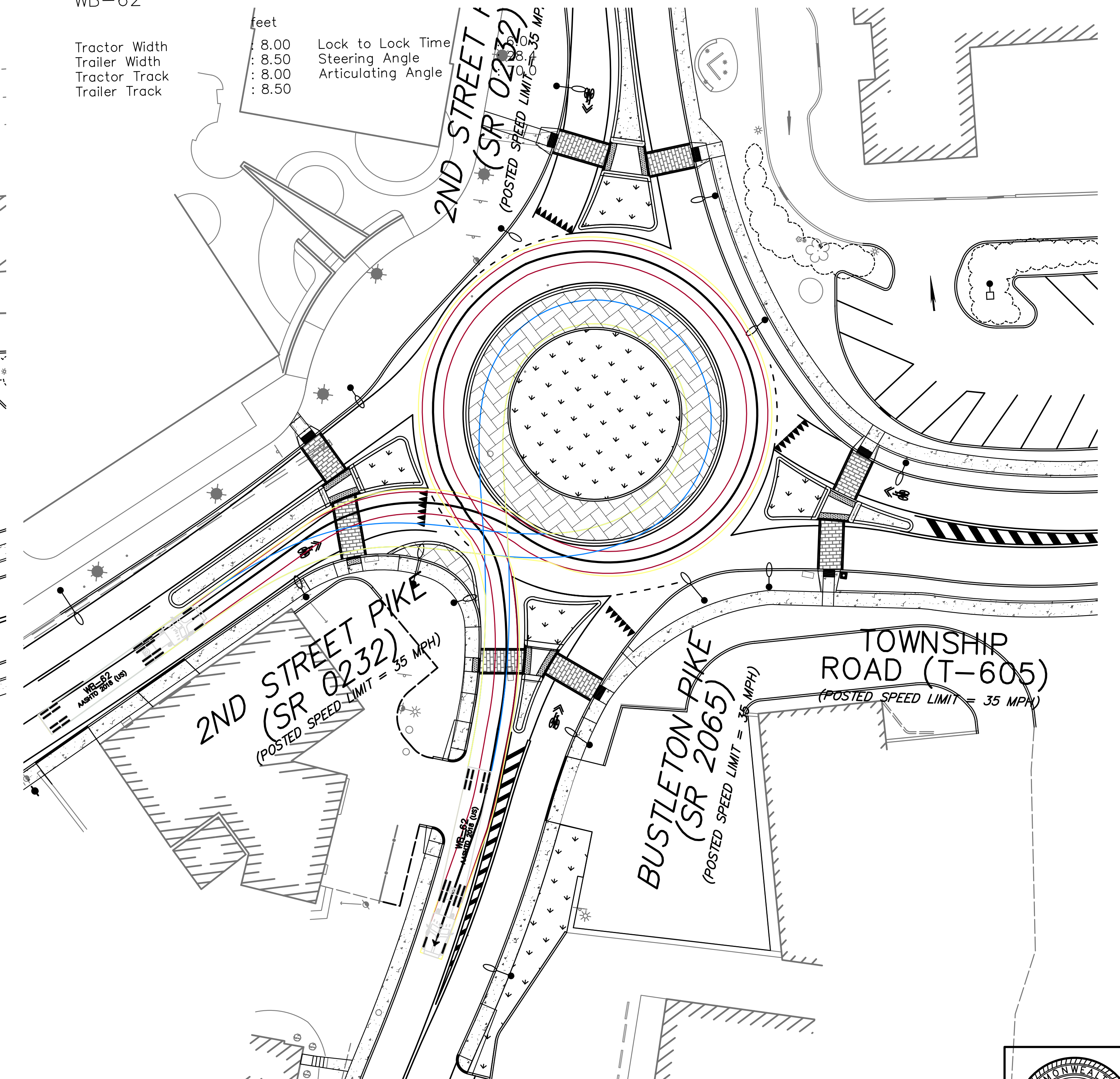
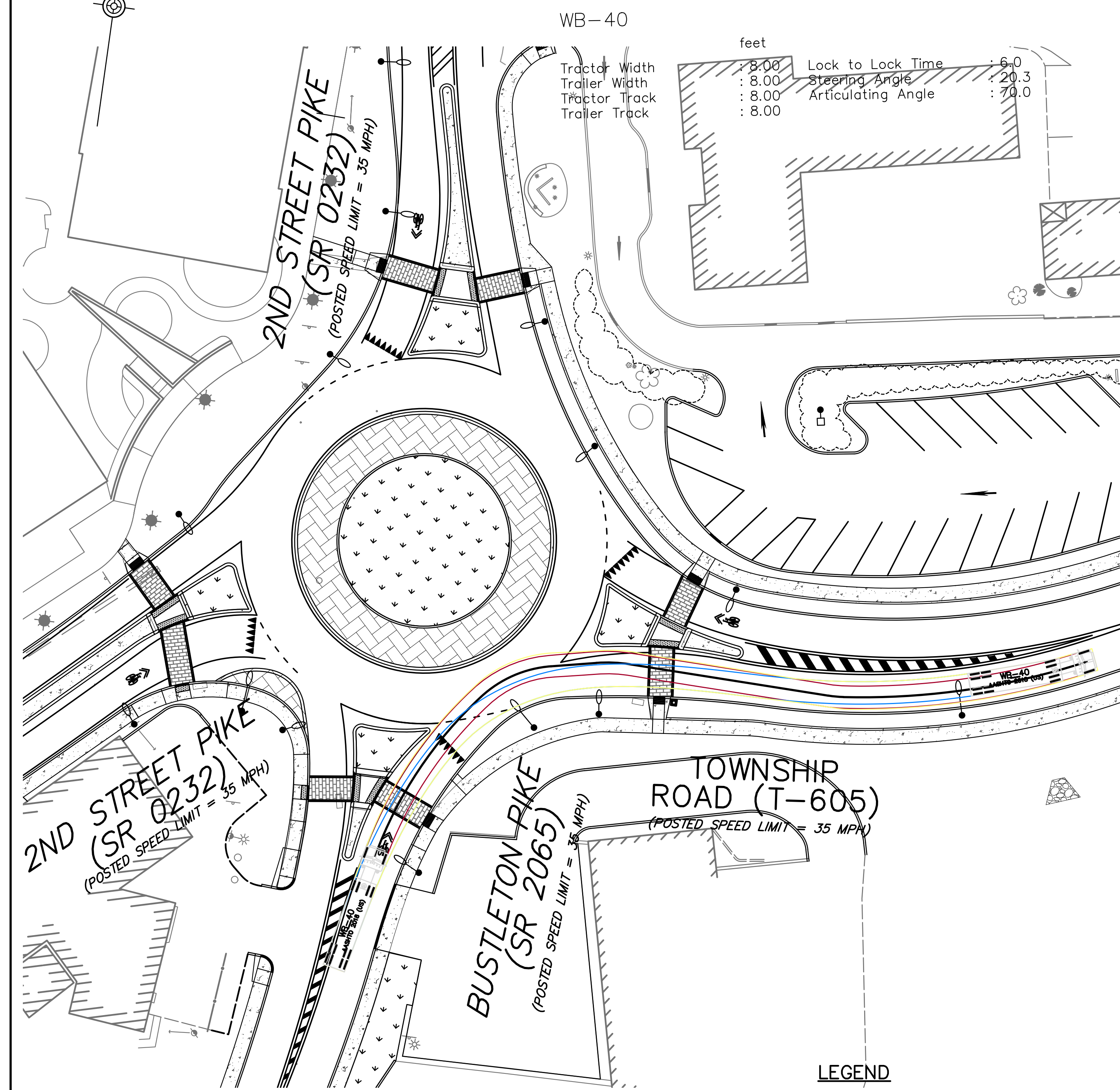


WB-40

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.00	Steering Angle	: 20.3
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.00		

WB-62

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 20.3
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

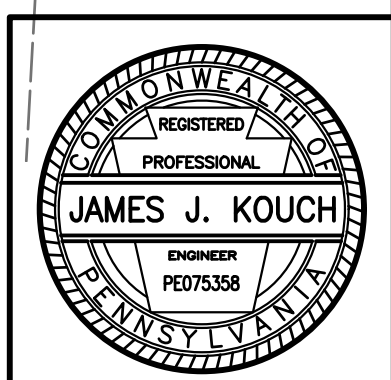
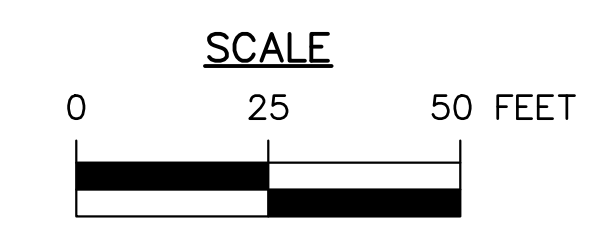


LEGEND

- FRONT TIRES
- REAR TIRES
- VEHICLE BODY
- CENTERLINE PATH

**S.R. 2065 RIGHT TURN
MOVEMENT ONTO T-605
WB-40 TRUCK**

**S.R. 0232 RIGHT TURN
MOVEMENT ONTO S.R. 2065
WB-62 TRUCK**



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD

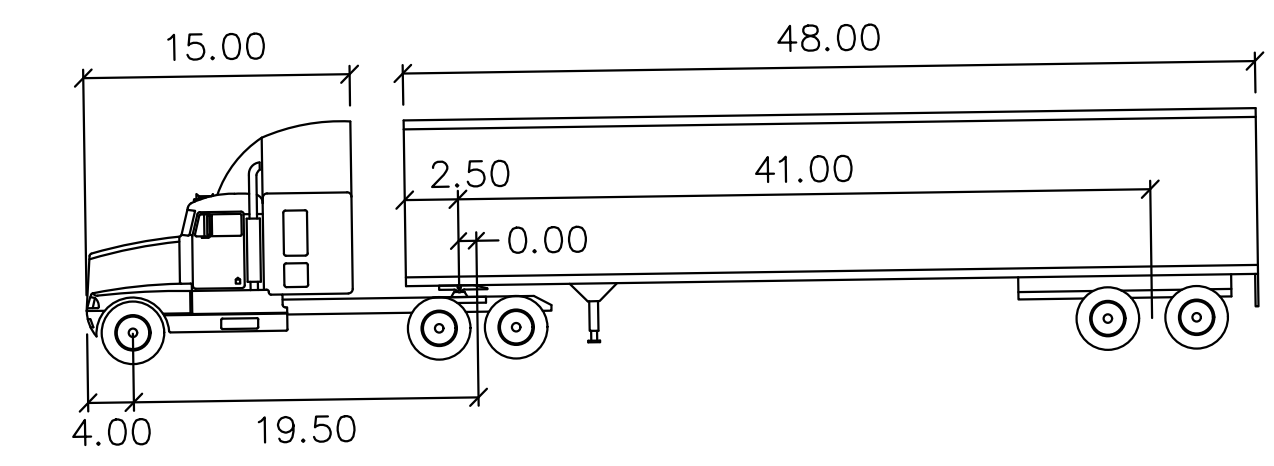
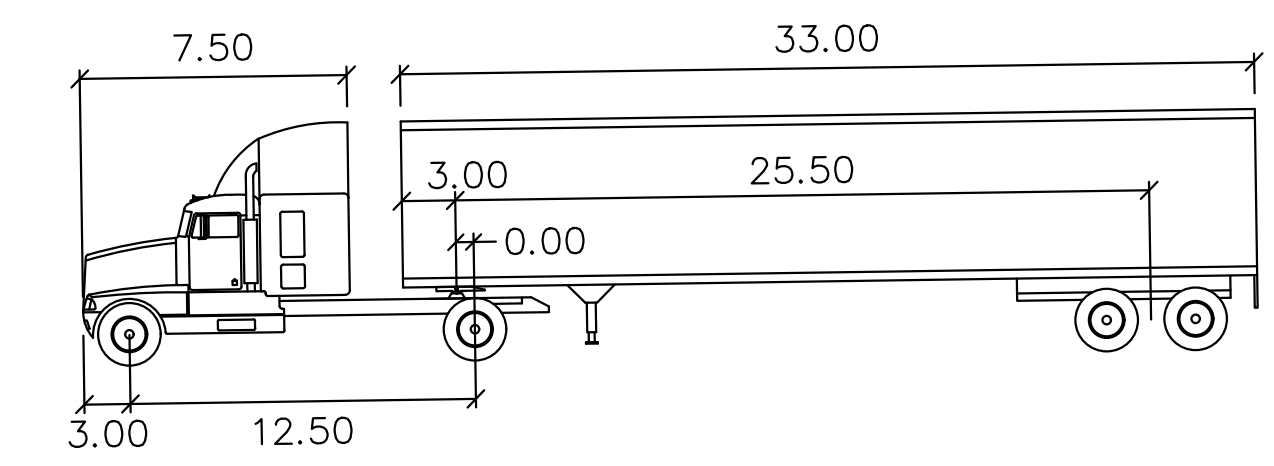
JOB NO: 816506.2A
DWG: 506TRK01
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

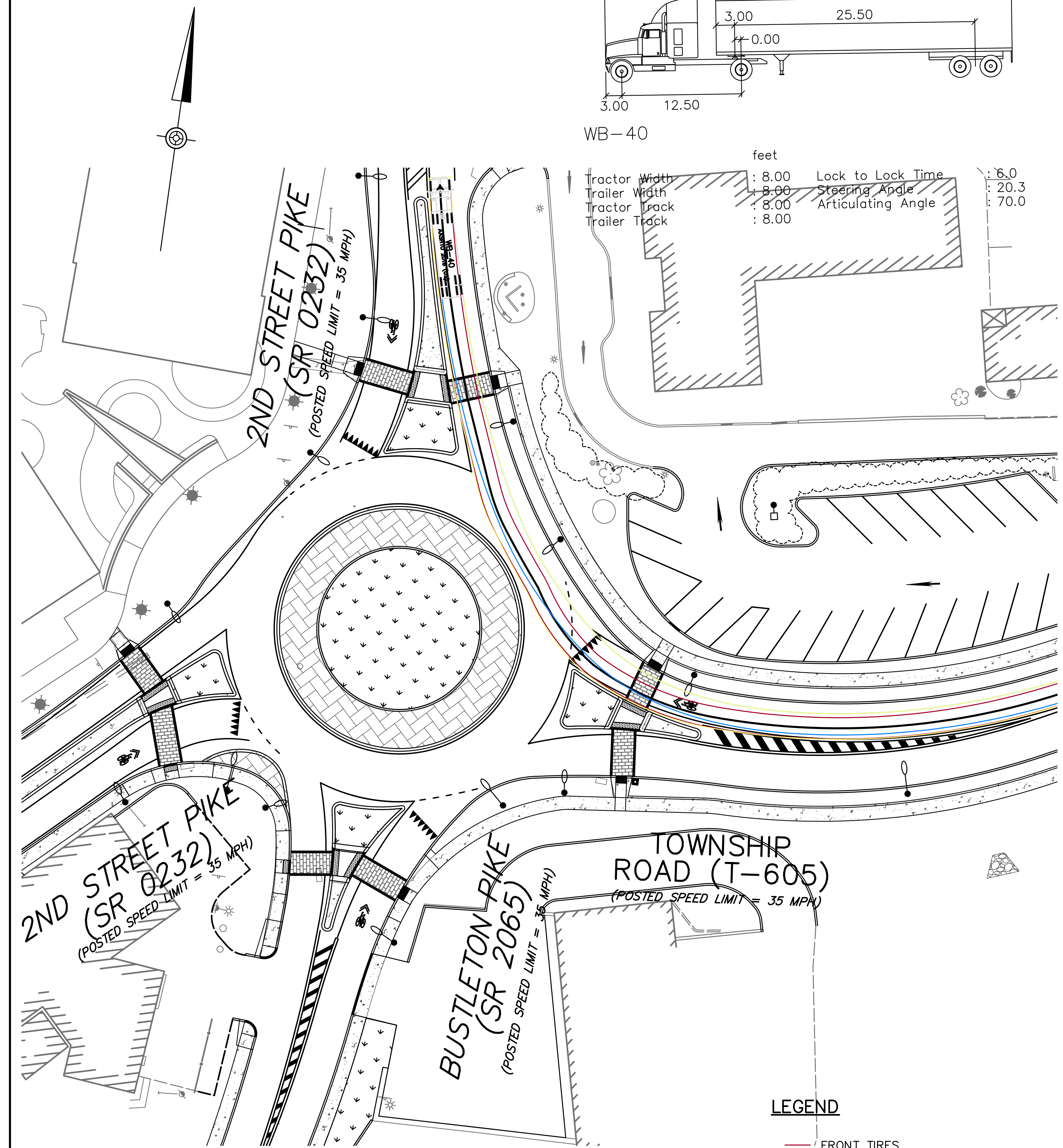
TRUCK TURNING PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	64 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



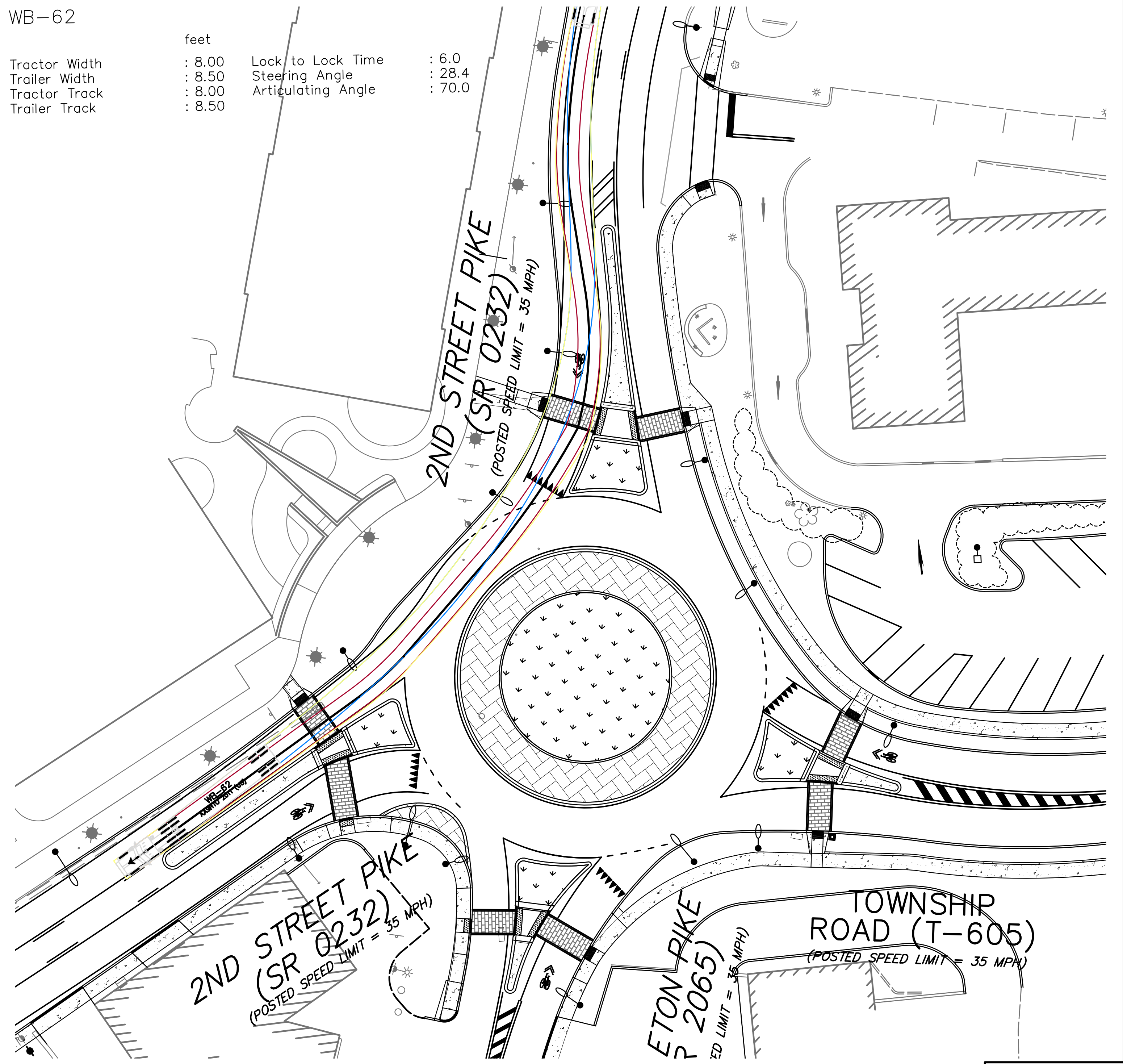
feet
 Tractor Width : 8.00 Lock to Lock Time : 6.0
 Trailer Width : 8.00 Steering Angle : 20.3
 Tractor Track : 8.00 Articulating Angle : 70.0
 Trailer Track : 8.00

feet
 Tractor Width : 8.00 Lock to Lock Time : 6.0
 Trailer Width : 8.50 Steering Angle : 28.4
 Tractor Track : 8.00 Articulating Angle : 70.0
 Trailer Track : 8.50

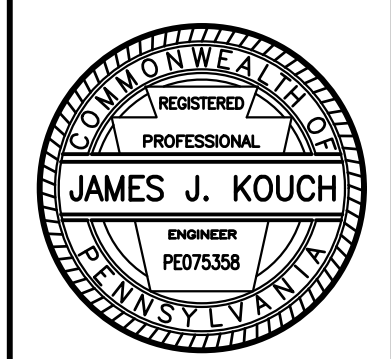
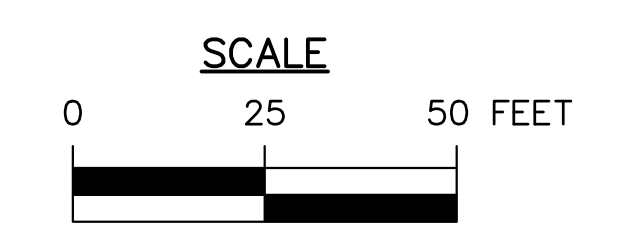


**T-605 RIGHT TURN
 MOVEMENT ONTO S.R. 0232
 WB-40 TRUCK**

LEGEND
 — FRONT TIRES
 — REAR TIRES
 — VEHICLE BODY
 — CENTERLINE PATH



**S.R. 0232 RIGHT TURN
 MOVEMENT ONTO S.R. 0232
 WB-62 TRUCK**



425 COMMERCE DRIVE
 SUITE 200
 FORT WASHINGTON, PA 19034
 PH: (215) 283-9444
 FAX: (215) 283-9447

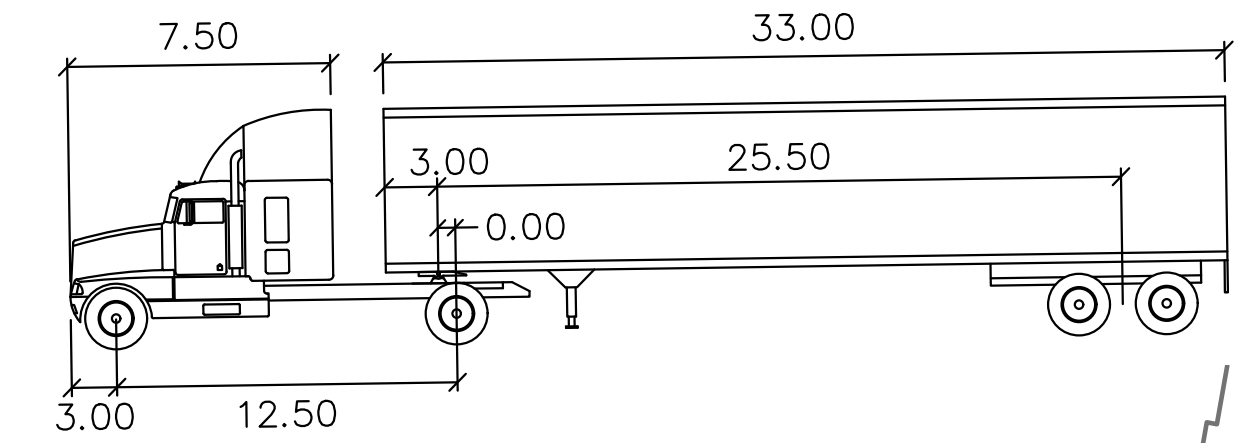
DESIGN BY: KLY
 DRAWN BY: KLY
 CHECKED BY: BDD
 JOB NO: 816506.2A
 DWG: 506TRK01
 DATE: 5/16/18

NORTHAMPTON TOWNSHIP
 55 TOWNSHIP RD
 RICHBORO, PA 18954
 (215) 357-6800

RICHBORO ROUNDABOUT
 2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
 NORTHAMPTON TOWNSHIP
 BUCKS COUNTY

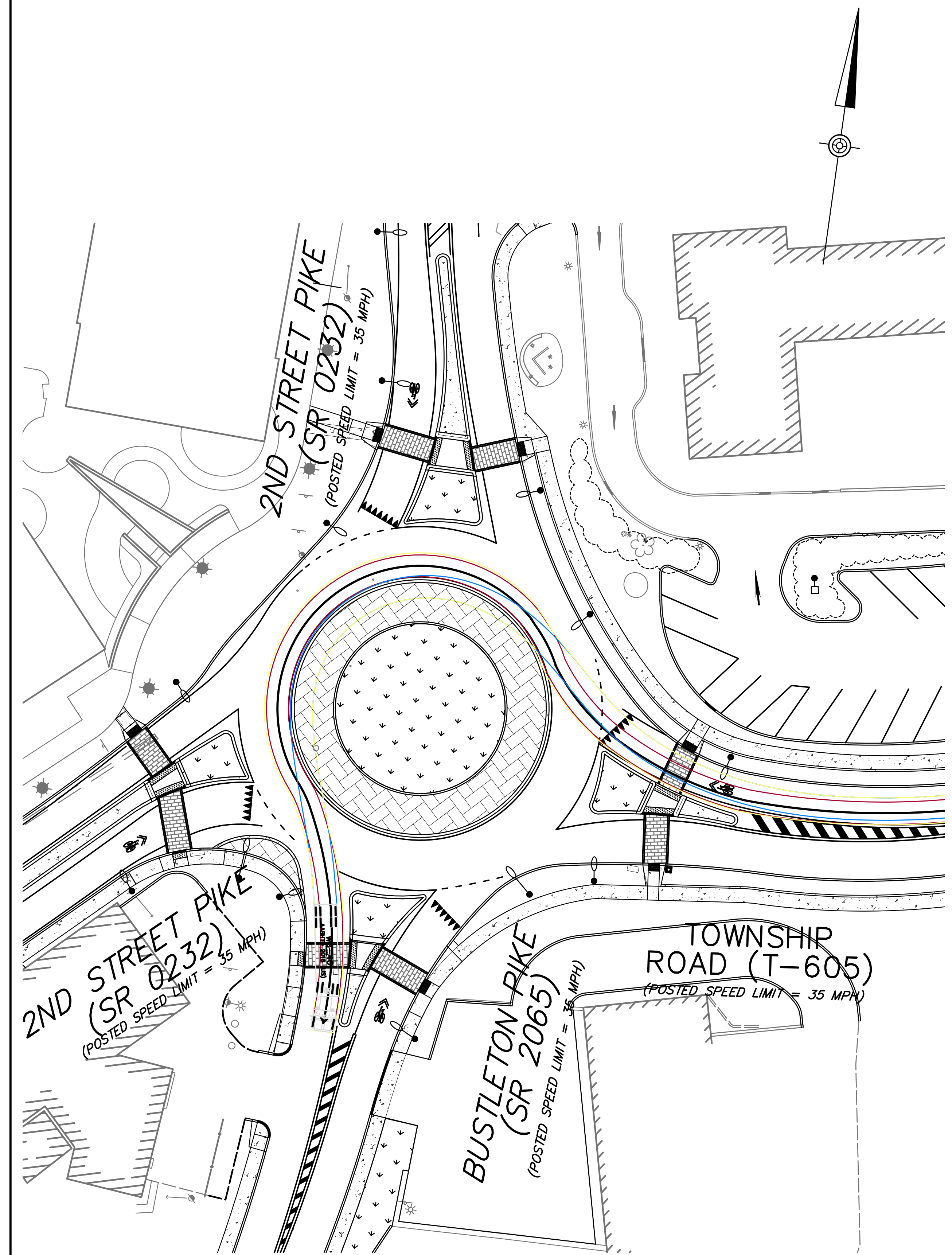
TRUCK TURNING PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	65 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

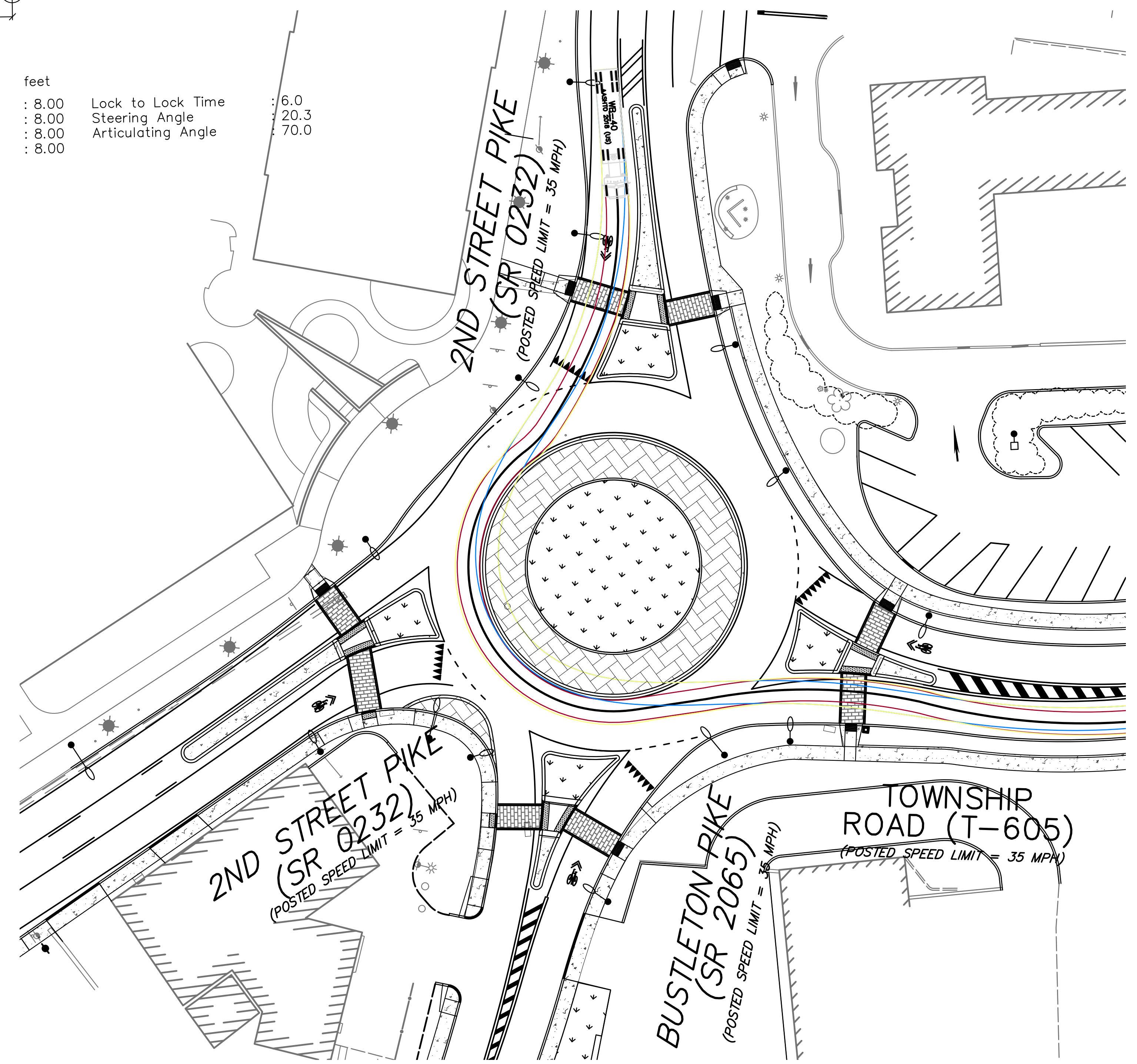


WB-40

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.00	Steering Angle	: 20.3
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.00		

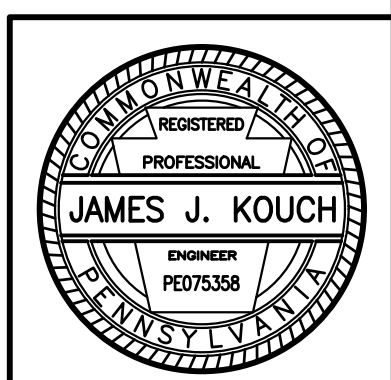
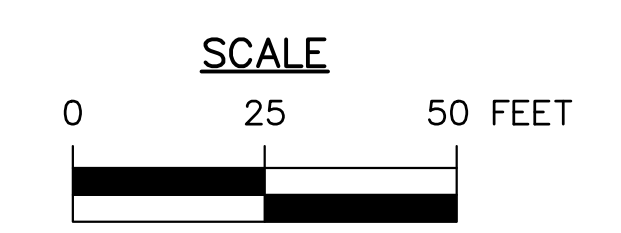


**T-605 LEFT TURN
MOVEMENT ONTO S.R. 2065
WB-40 TRUCK**



**S.R. 0232 LEFT TURN
MOVEMENT ONTO T-605
WB-40 TRUCK**

- LEGEND**
- FRONT TIRES
 - REAR TIRES
 - VEHICLE BODY
 - CENTERLINE PATH



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD

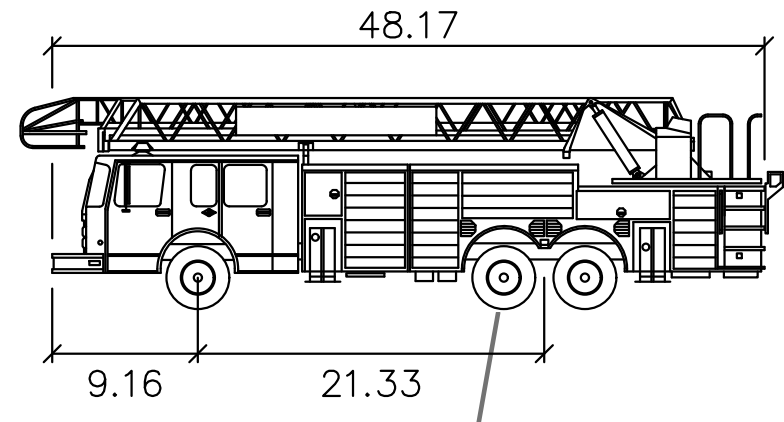
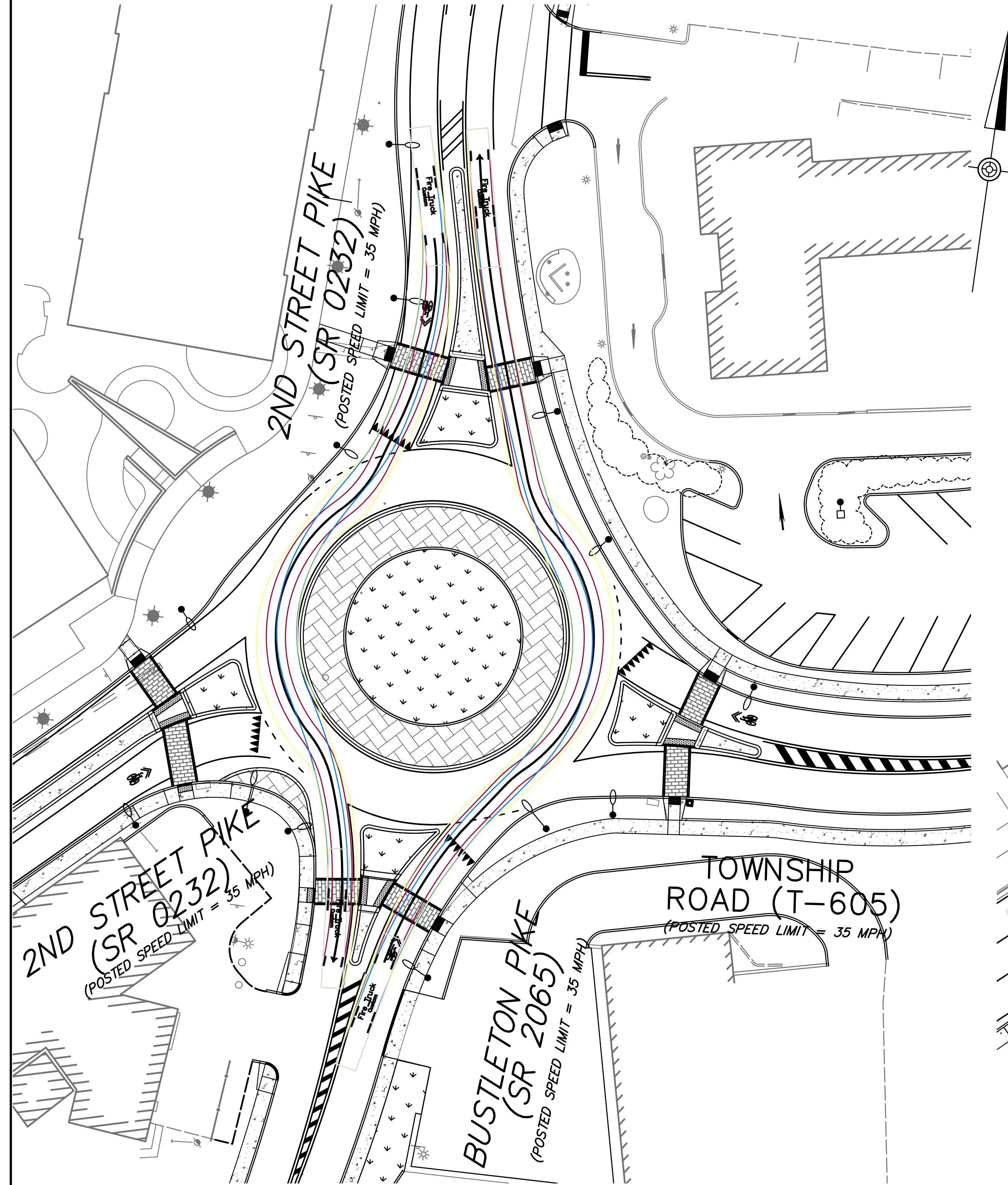
JOB NO: 816506.2A
DWG: 506TRK01
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

TRUCK TURNING PLAN

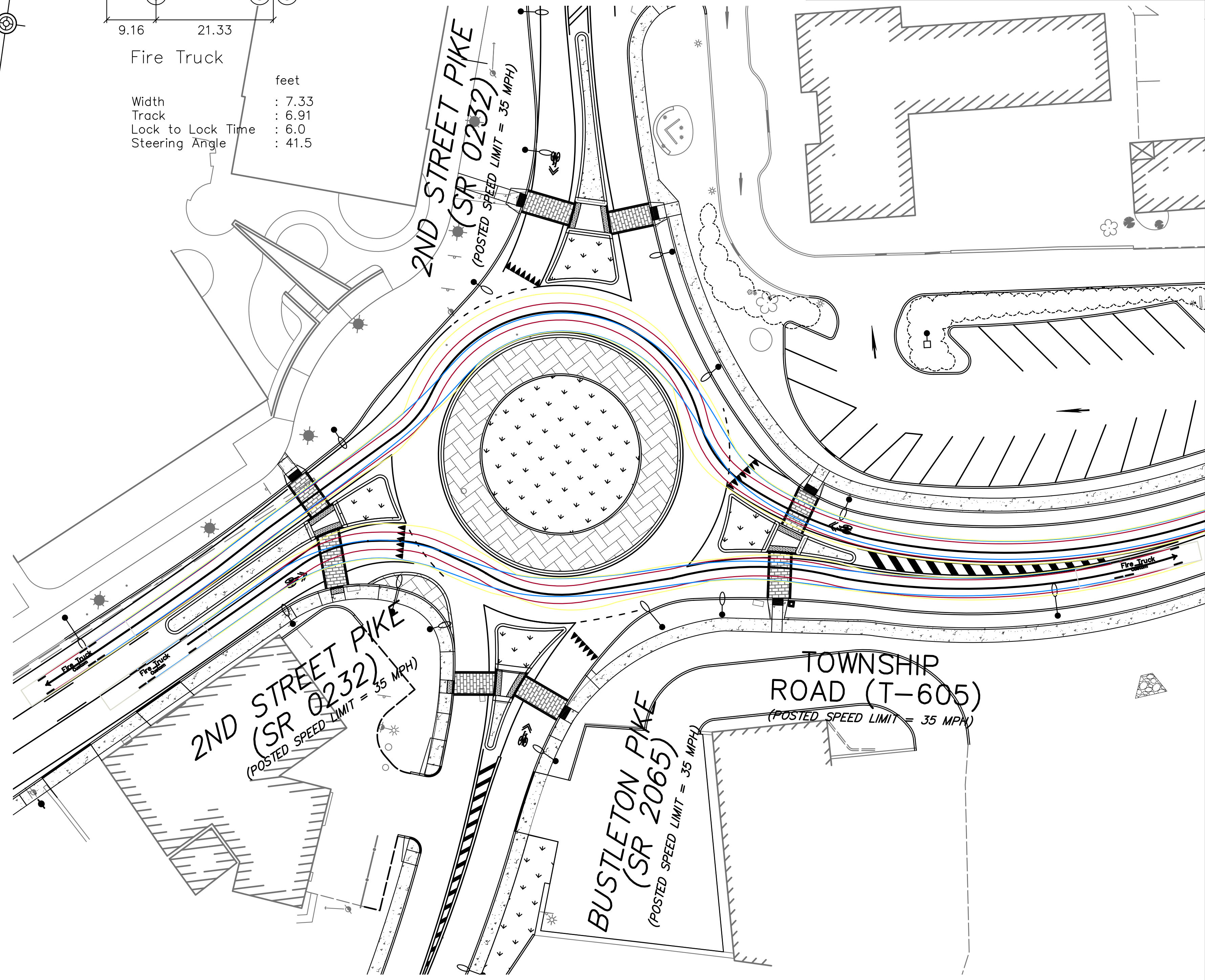
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	67 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



Fire Truck

feet

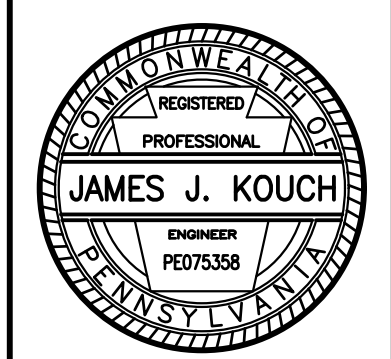
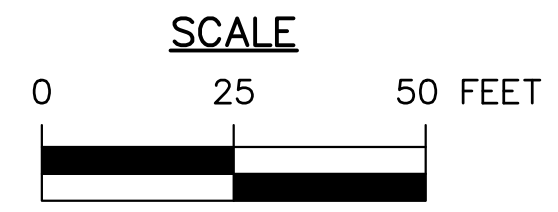
Width : 7.33
 Track : 6.91
 Lock to Lock Time : 6.0
 Steering Angle : 41.5



- LEGEND**
- FRONT TIRES
 - REAR TIRES
 - VEHICLE BODY
 - CENTERLINE PATH

THROUGH MOVEMENTS
48' FIRE TRUCK

THROUGH MOVEMENTS
48' FIRE TRUCK



425 COMMERCE DRIVE
 SUITE 200
 FORT WASHINGTON, PA 19034
 PH: (215) 283-9444
 FAX: (215) 283-9447

DESIGN BY: KLY
 DRAWN BY: KLY
 CHECKED BY: BDD

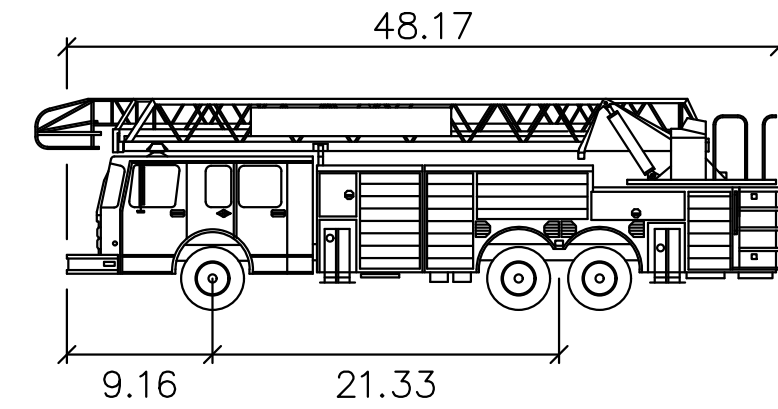
JOB NO: 816506.2A
 DWG: 506TRK02
 DATE: 5/16/18

NORTHAMPTON TOWNSHIP
 55 TOWNSHIP RD
 RICHBORO, PA 18954
 (215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
 NORTHAMPTON TOWNSHIP
 BUCKS COUNTY

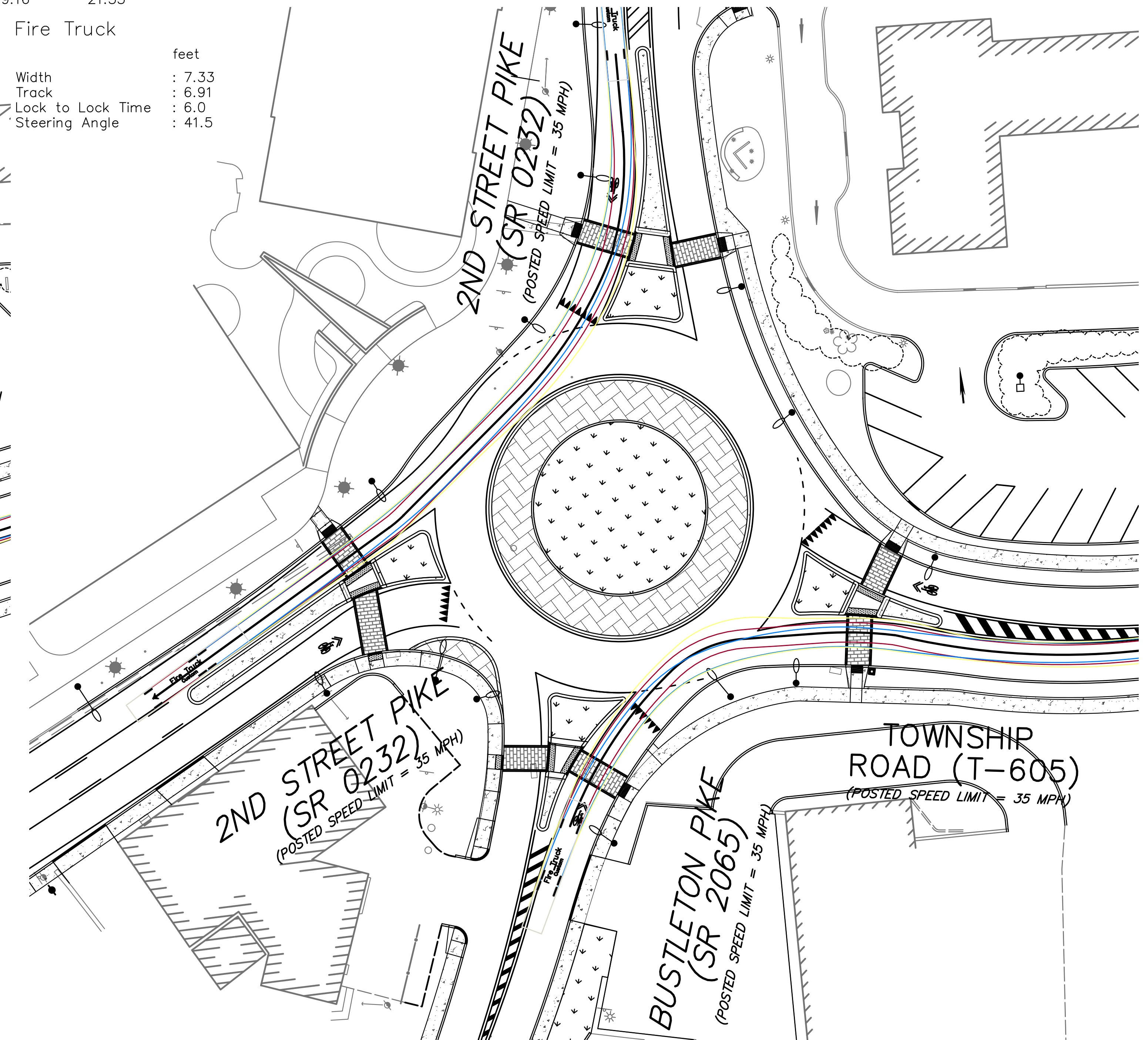
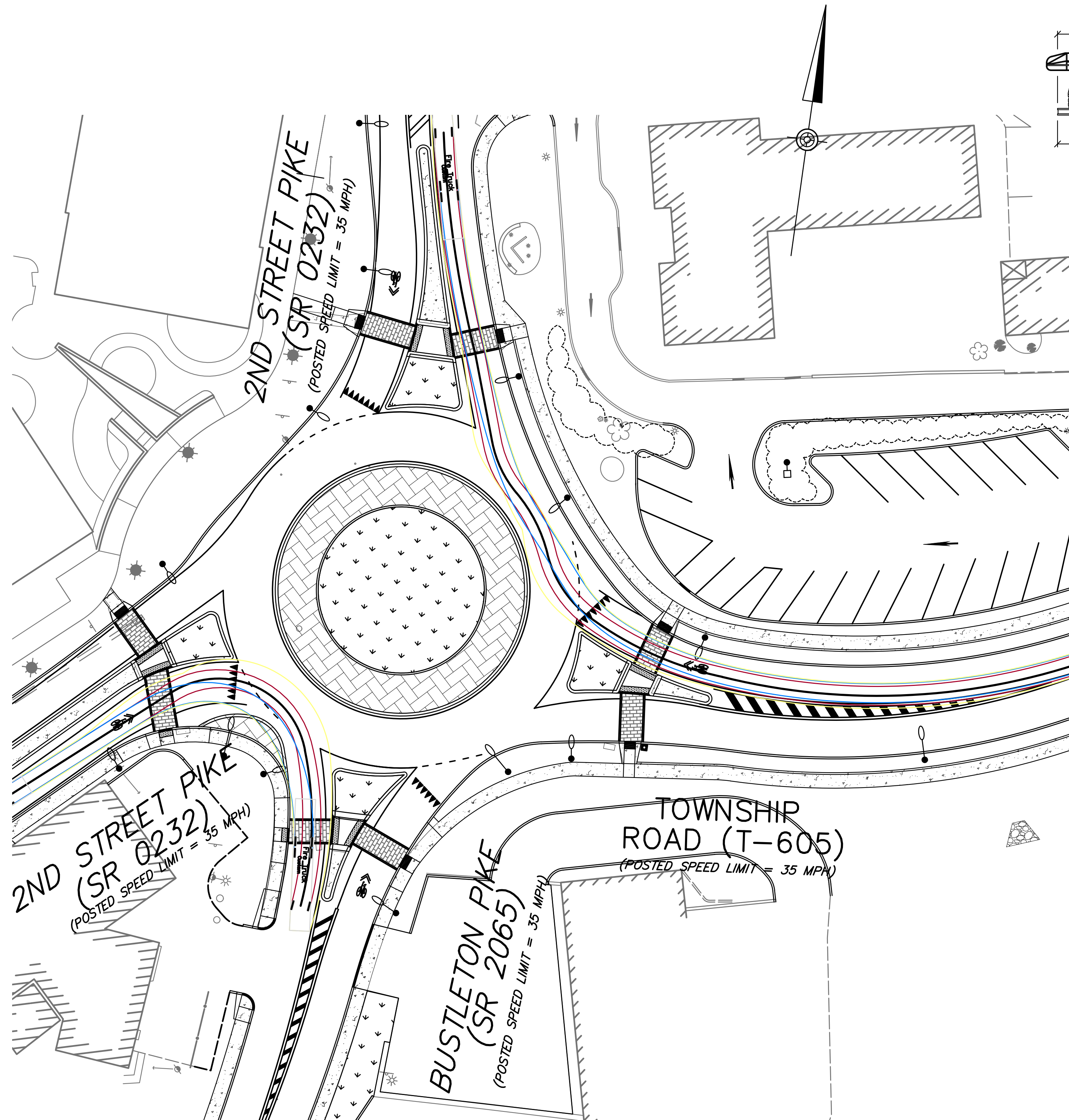
TRUCK TURNING PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	68 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



Fire Truck

Width : 7.33
 Track : 6.91
 Lock to Lock Time : 6.0
 Steering Angle : 41.5



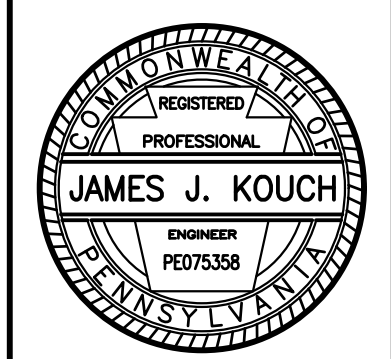
LEGEND

- FRONT TIRES
- REAR TIRES
- VEHICLE BODY
- CENTERLINE PATH

**S.R. 0232 RIGHT TURN
 MOVEMENT ONTO S.R. 2065
 AND T-605 RIGHT TURN
 MOVEMENT ONTO S.R. 0232
 48' FIRE TRUCK**

**S.R. 0232 RIGHT TURN
 MOVEMENT ONTO S.R. 0232
 AND S.R. 2065 RIGHT TURN
 MOVEMENT ONTO T-605
 48' FIRE TRUCK**

SCALE
 0 25 50 FEET



425 COMMERCE DRIVE
 SUITE 200
 FORT WASHINGTON, PA 19034
 PH: (215) 283-9444
 FAX: (215) 283-9447

DESIGN BY: KLY
 DRAWN BY: KLY
 CHECKED BY: BDD

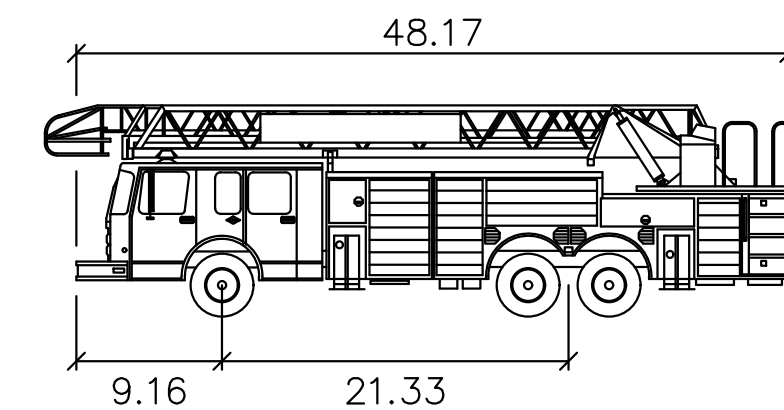
JOB NO: 816506.2A
 DWG: 506TRK02
 DATE: 5/16/18

NORTHAMPTON TOWNSHIP
 55 TOWNSHIP RD
 RICHBORO, PA 18954
 (215) 357-6800

RICHBORO ROUNDABOUT
 2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
 NORTHAMPTON TOWNSHIP
 BUCKS COUNTY

TRUCK TURNING PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	69 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

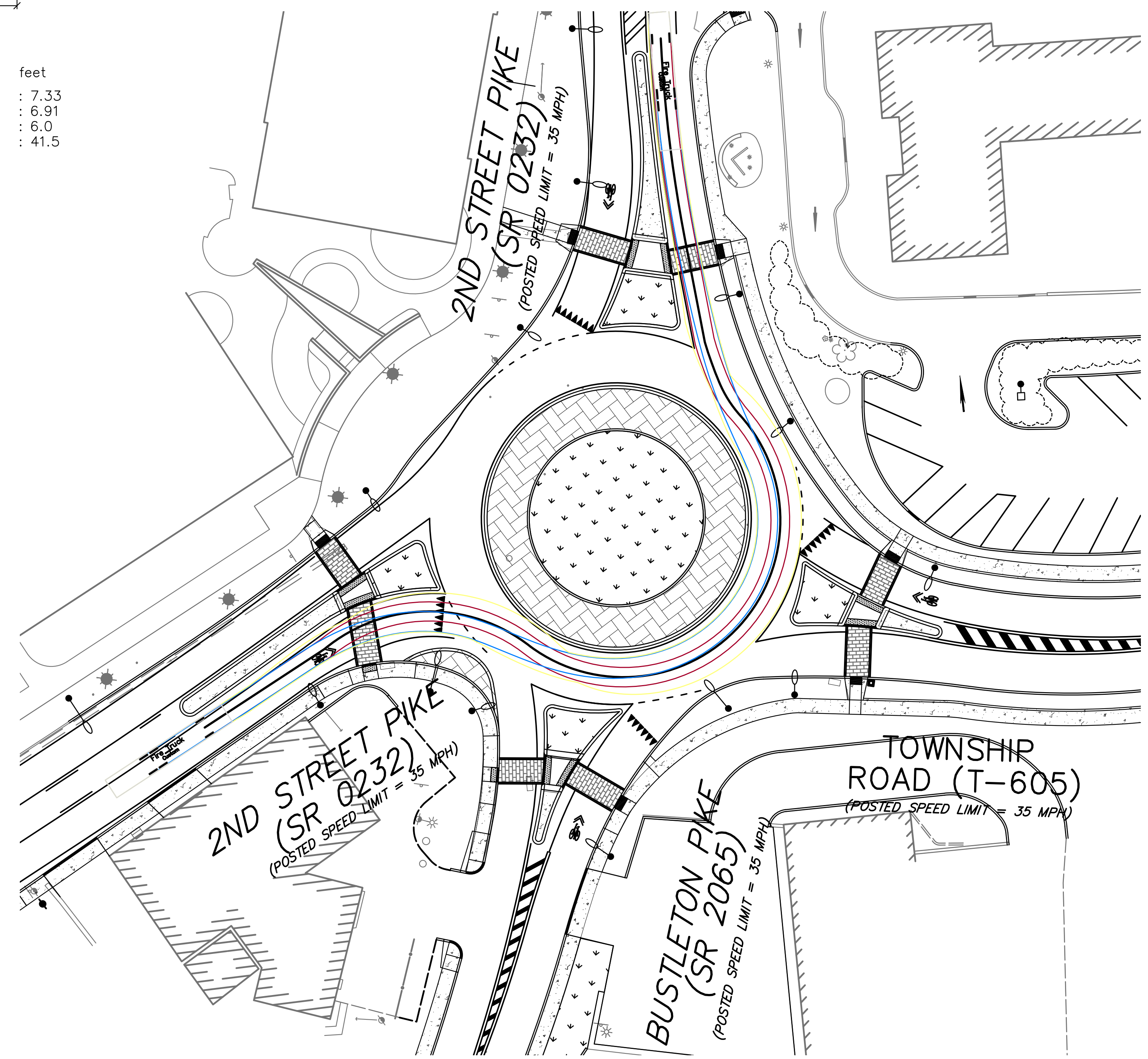


Fire Truck

Width : 7.33 feet
 Track : 6.91 feet
 Lock to Lock Time : 6.0 feet
 Steering Angle : 41.5 degrees



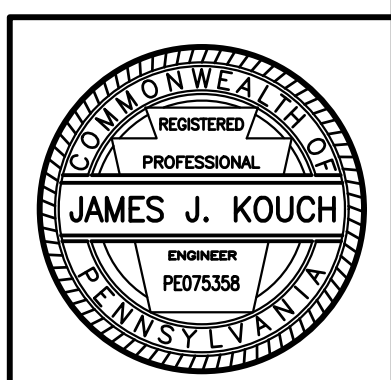
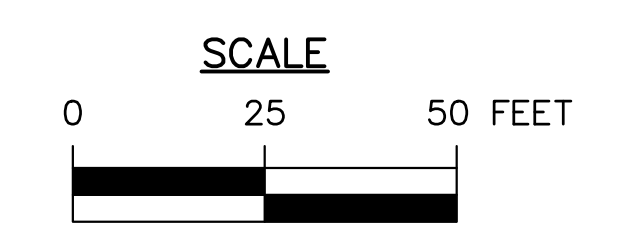
**T-605 LEFT TURN
 MOVEMENT ONTO S.R. 2065
 48' FIRE TRUCK**



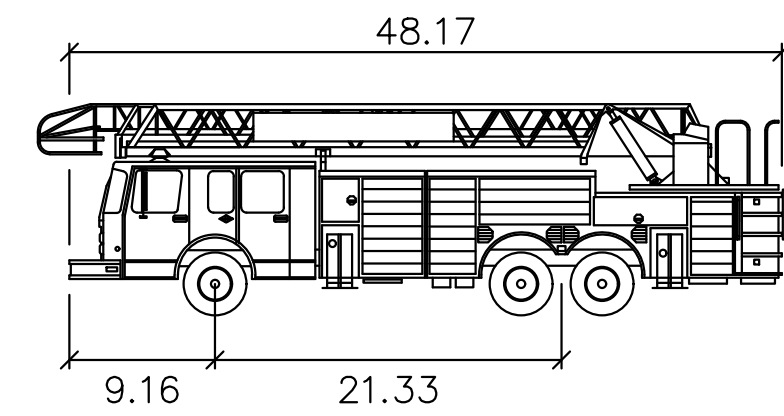
LEGEND

- FRONT TIRES
- REAR TIRES
- VEHICLE BODY
- CENTERLINE PATH

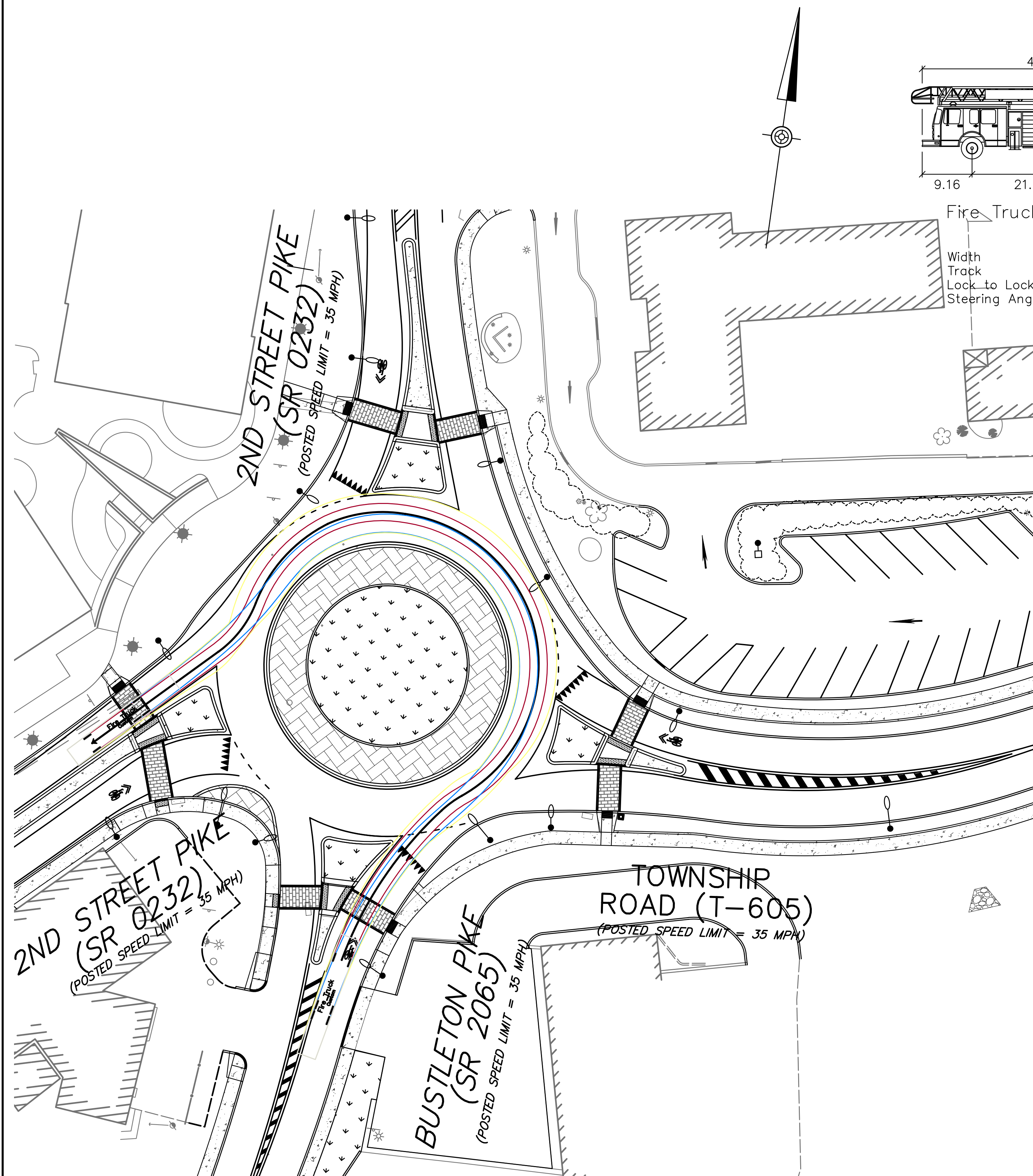
**S.R. 0232 LEFT TURN
 MOVEMENT ONTO S.R. 0232
 48' FIRE TRUCK**



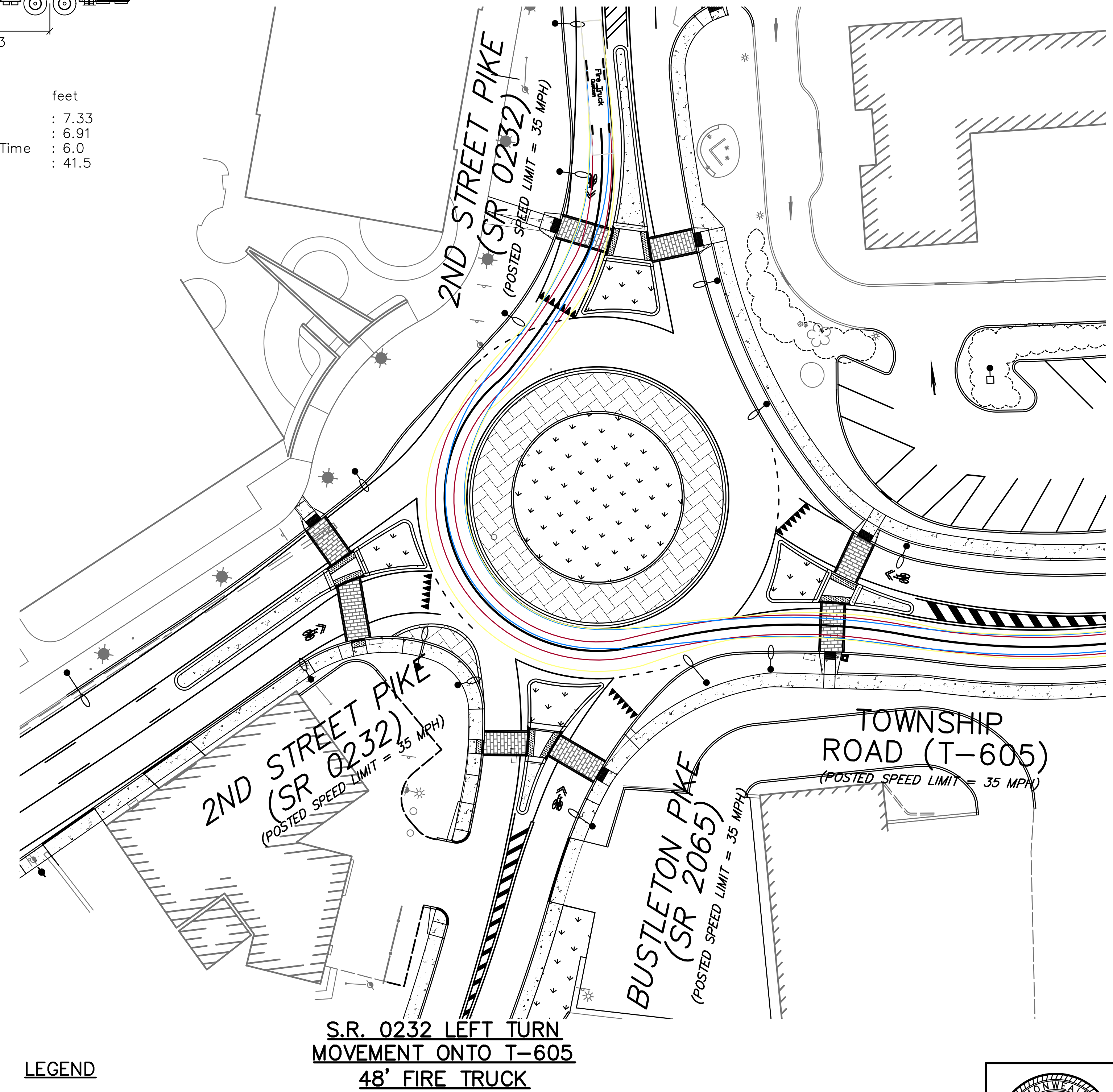
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	70 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



Fire Truck
 Width : 7.33
 Track : 6.91
 Lock to Lock Time : 6.0
 Steering Angle : 41.5



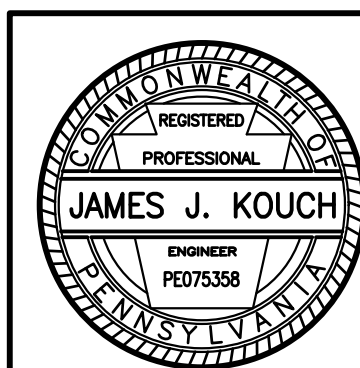
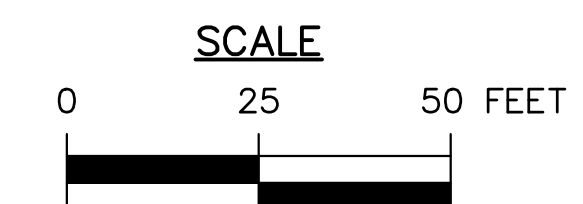
**S.R. 2065 LEFT TURN
 MOVEMENT ONTO S.R. 0232
 48' FIRE TRUCK**



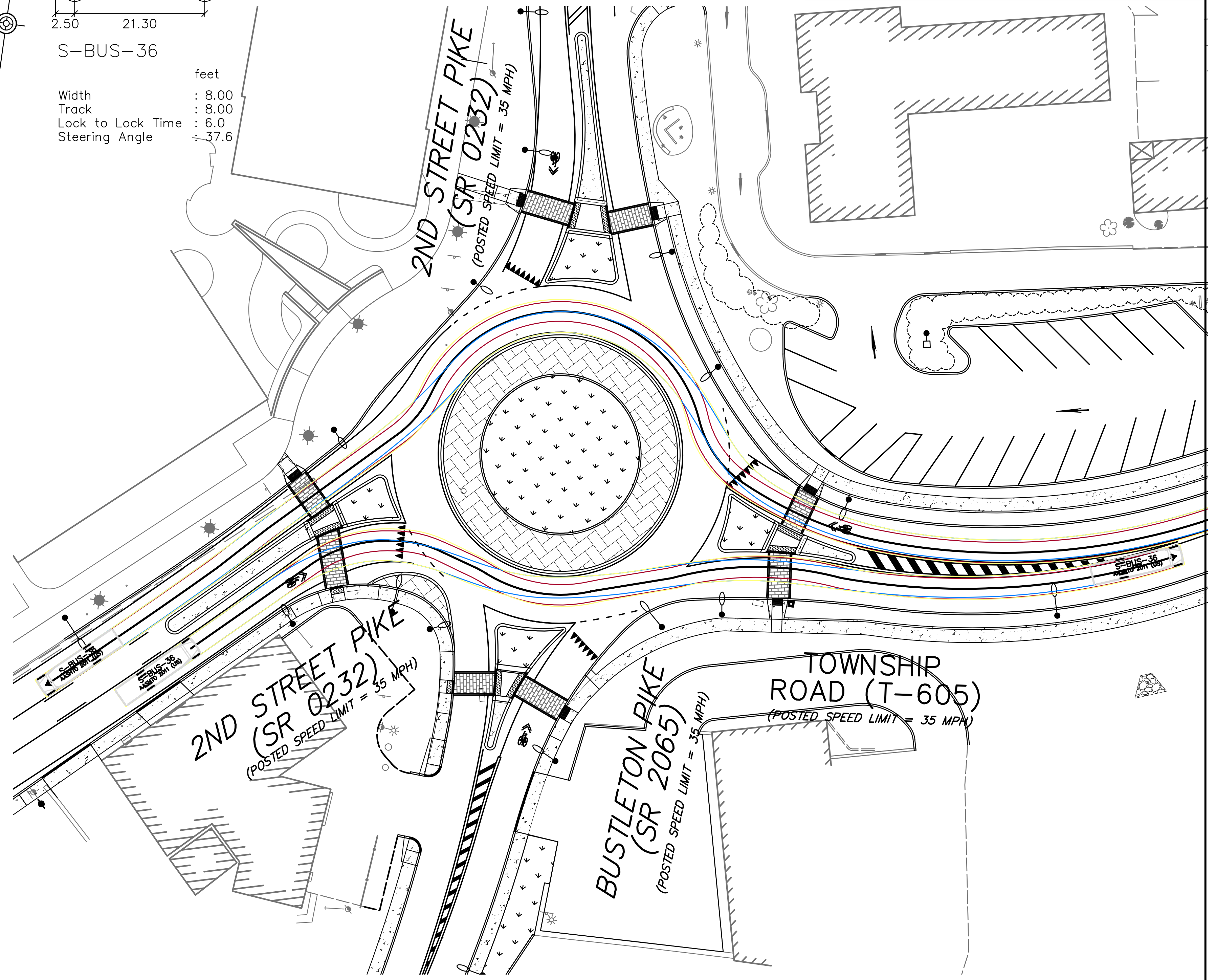
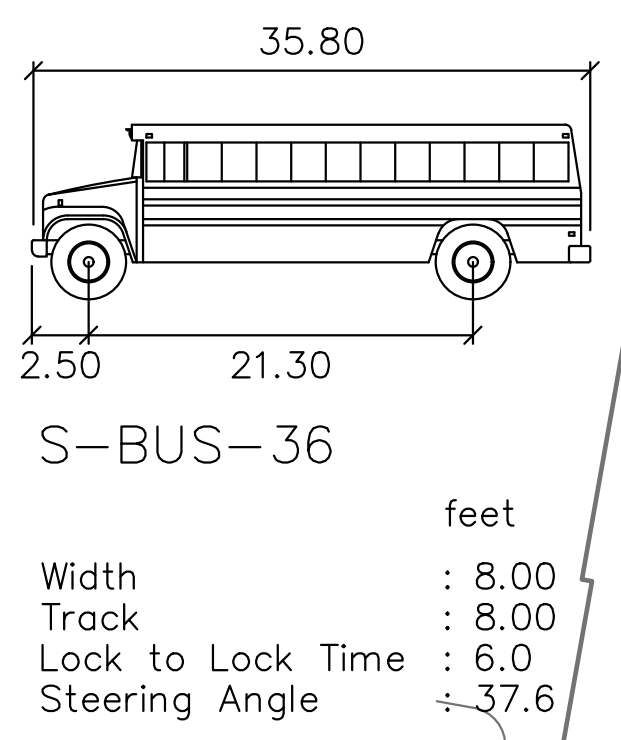
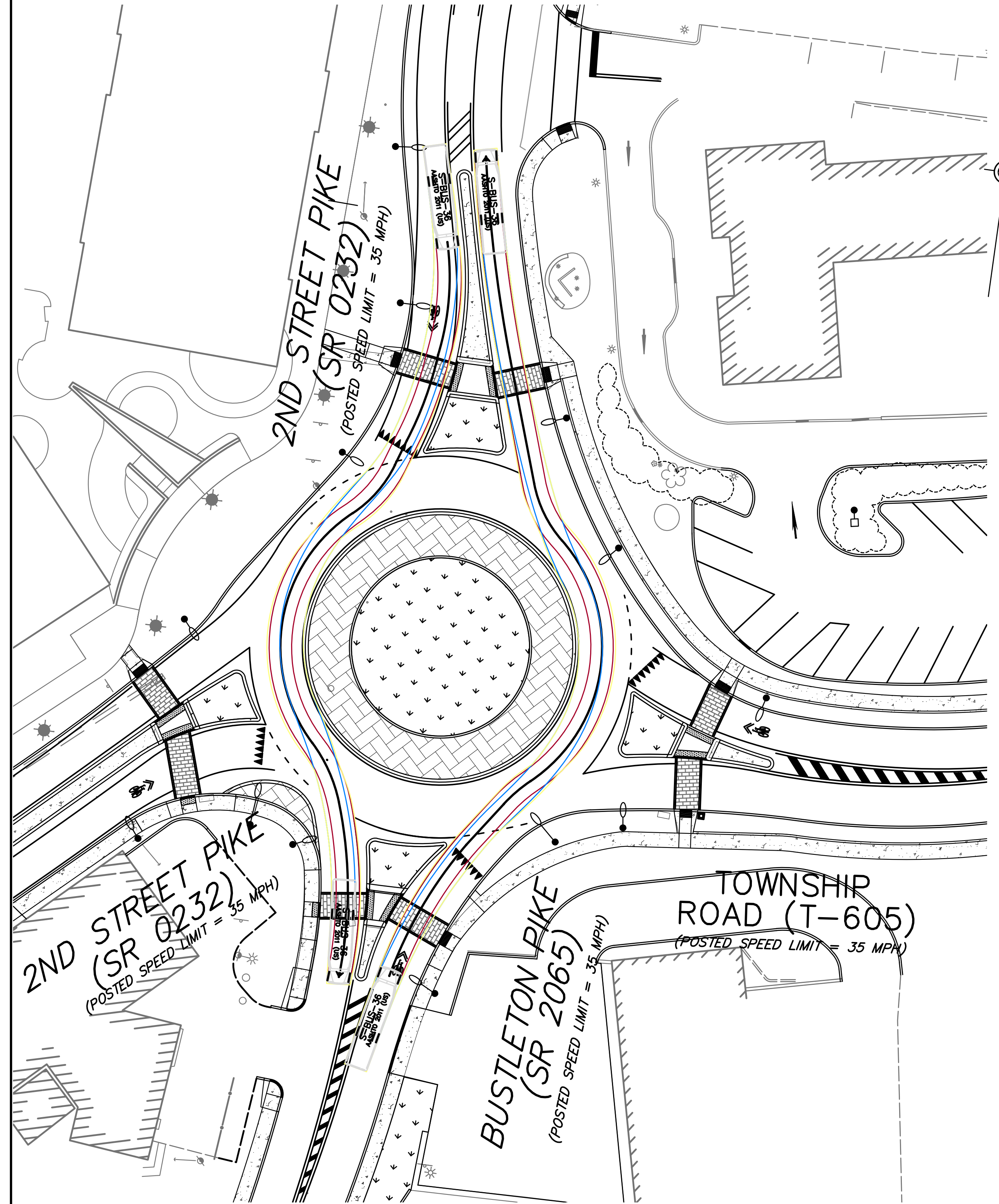
**S.R. 0232 LEFT TURN
 MOVEMENT ONTO T-605
 48' FIRE TRUCK**

LEGEND

- FRONT TIRES
- REAR TIRES
- VEHICLE BODY
- CENTERLINE PATH



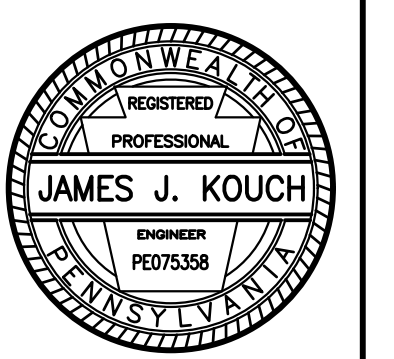
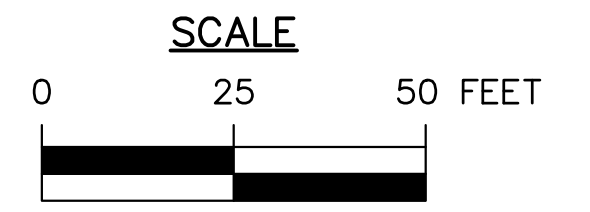
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	71 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



- LEGEND**
- FRONT TIRES
 - REAR TIRES
 - VEHICLE BODY
 - CENTERLINE PATH

**THROUGH MOVEMENTS
SCHOOL BUS**

**THROUGH MOVEMENTS
TRUCK**



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

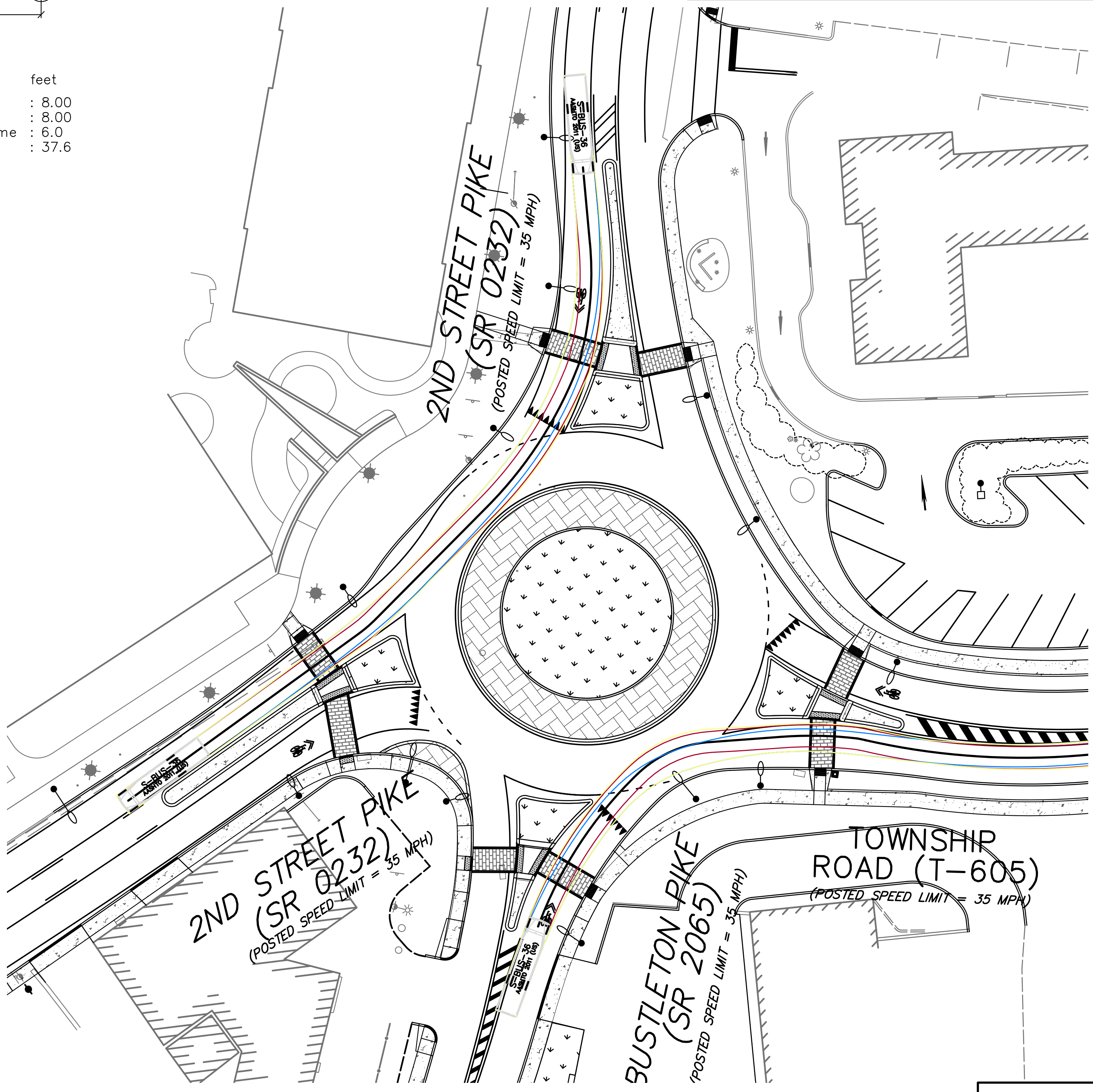
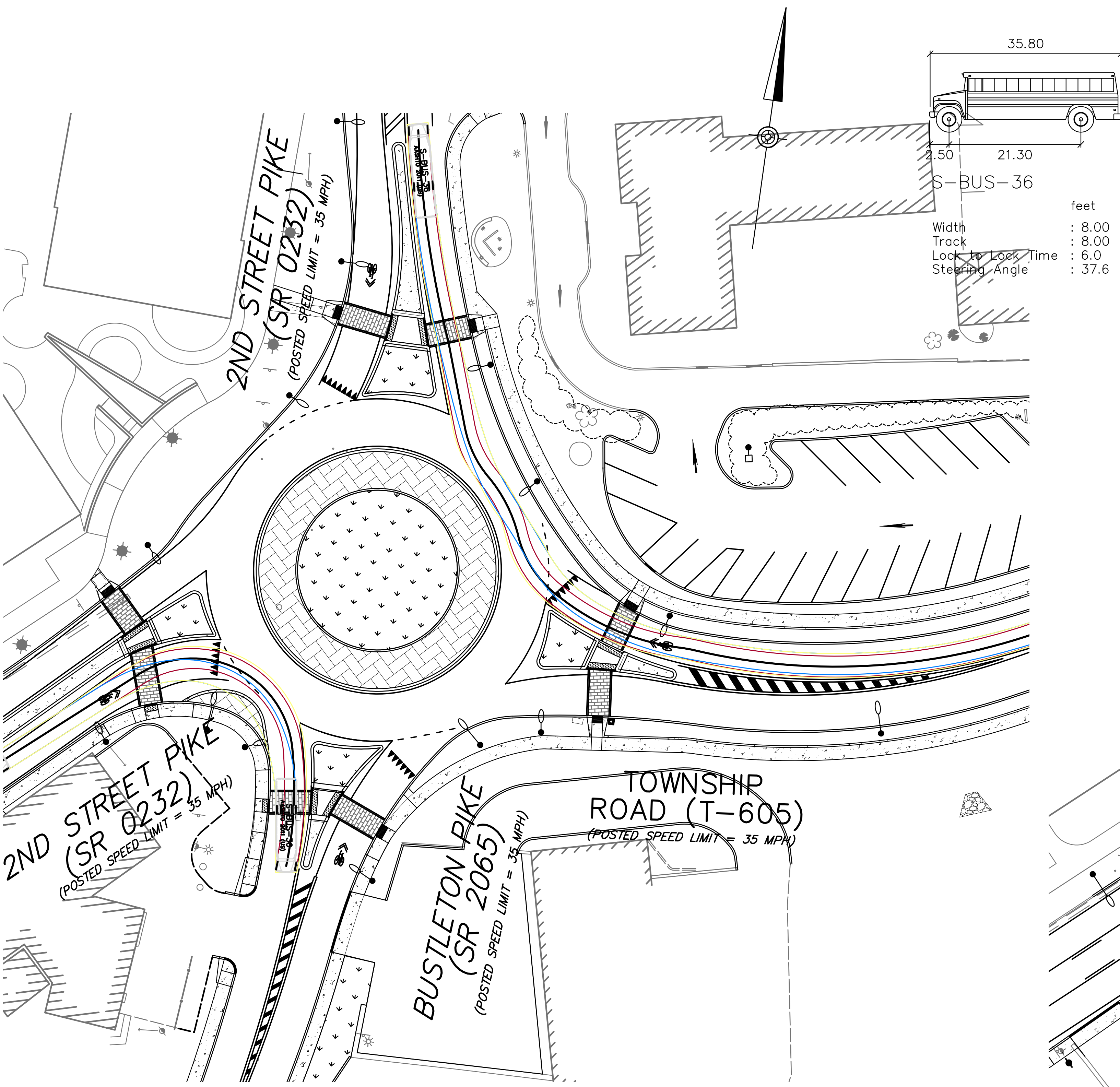
DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506TRK03
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

TRUCK TURNING PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	72 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



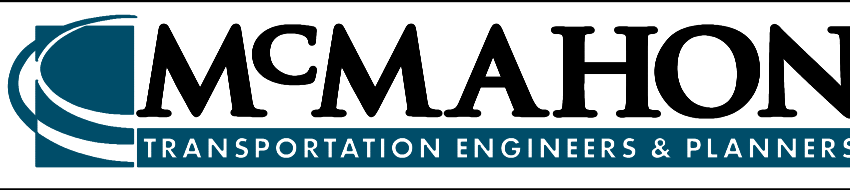
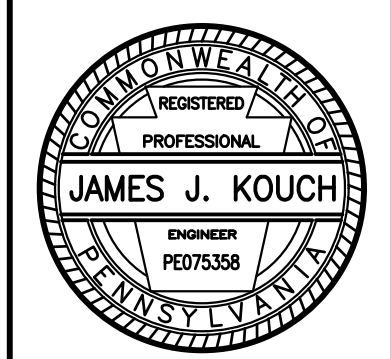
LEGEND

- FRONT TIRES
- REAR TIRES
- VEHICLE BODY
- CENTERLINE PATH

**S.R. 0232 RIGHT TURN
MOVEMENT ONTO S.R. 2065
AND T-605 RIGHT TURN
MOVEMENT ONTO S.R. 0232
SCHOOL BUS**

**S.R. 0232 RIGHT TURN
MOVEMENT ONTO S.R. 0232
AND S.R. 2065 RIGHT TURN
MOVEMENT ONTO T-605
SCHOOL BUS**

SCALE
0 25 50 FEET



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD

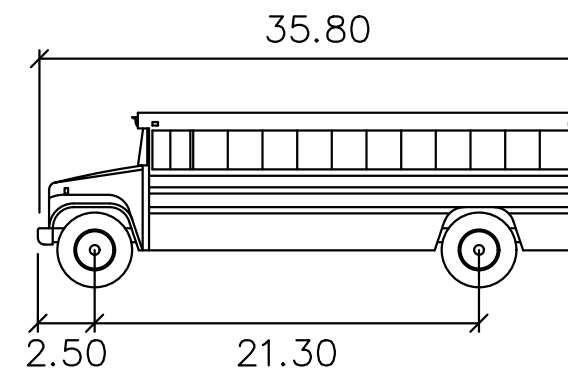
JOB NO: 816506.2A
DWG: 506TRK03
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

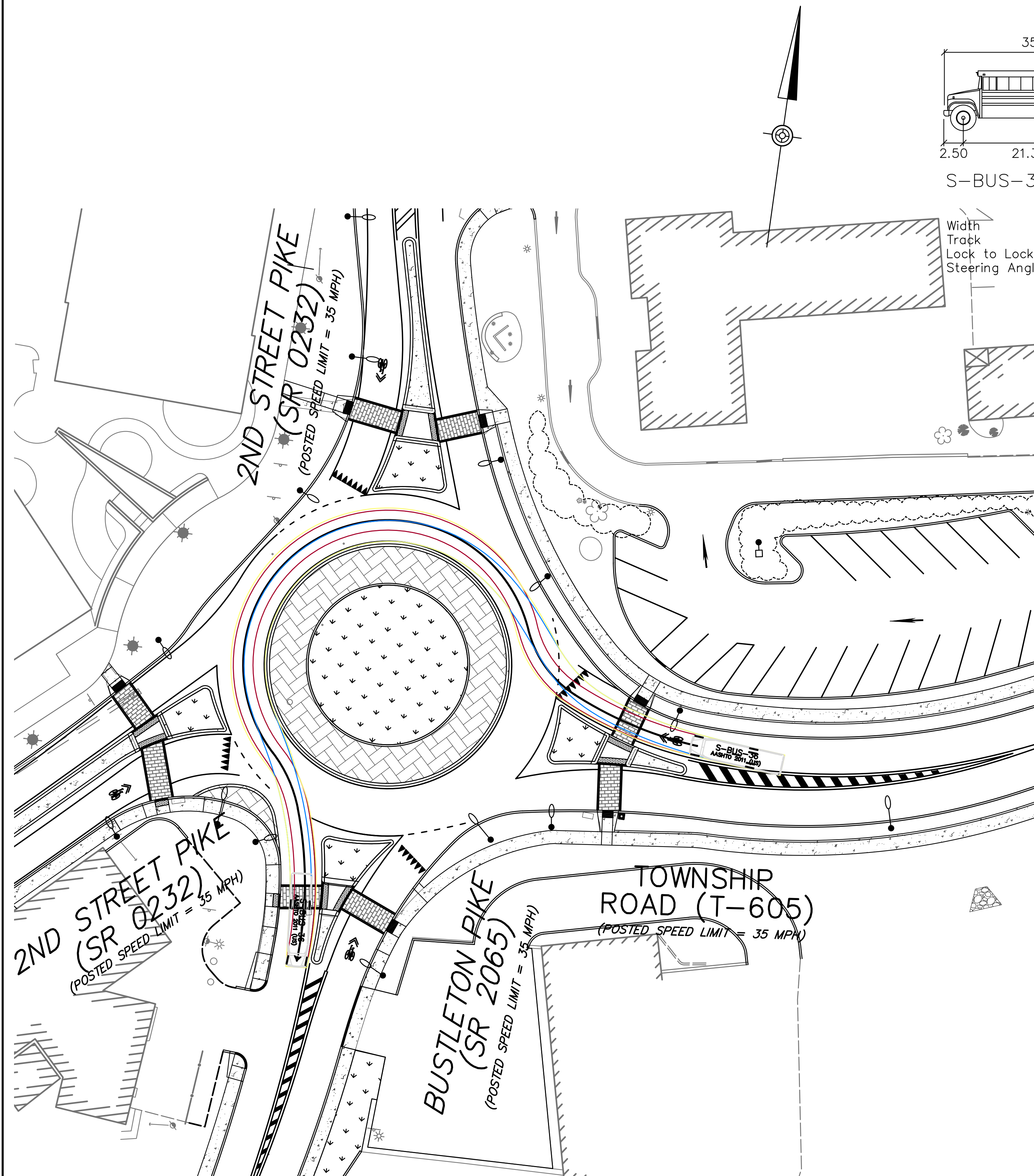
TRUCK TURNING PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	73 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

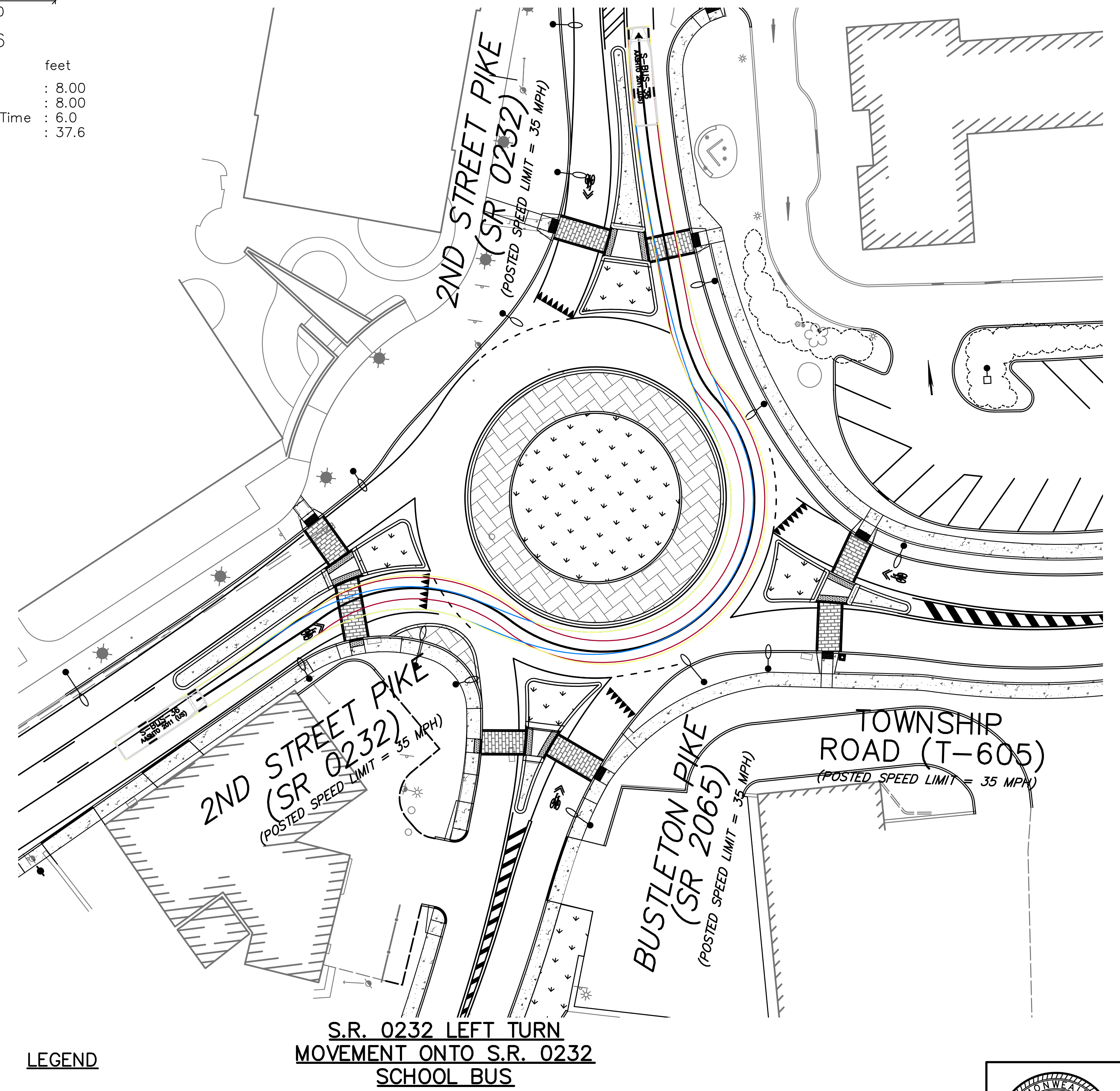


S-BUS-36

Width : 8.00
 Track : 8.00
 Lock to Lock Time : 6.0
 Steering Angle : 37.6



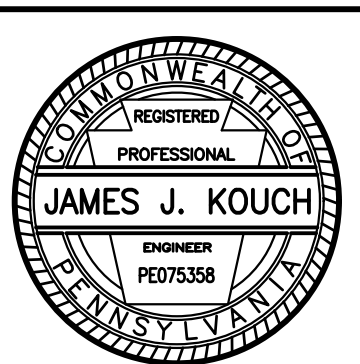
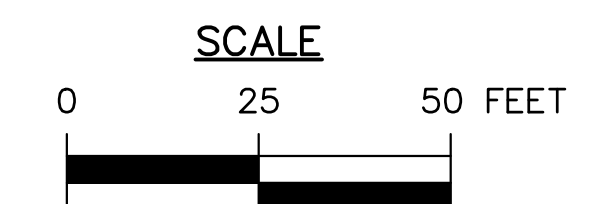
**T-605 LEFT TURN
 MOVEMENT ONTO S.R. 2065
 SCHOOL BUS**



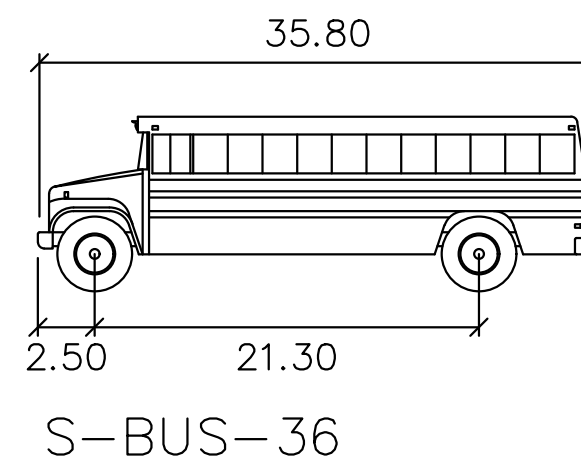
**S.R. 0232 LEFT TURN
 MOVEMENT ONTO S.R. 2065
 SCHOOL BUS**

LEGEND

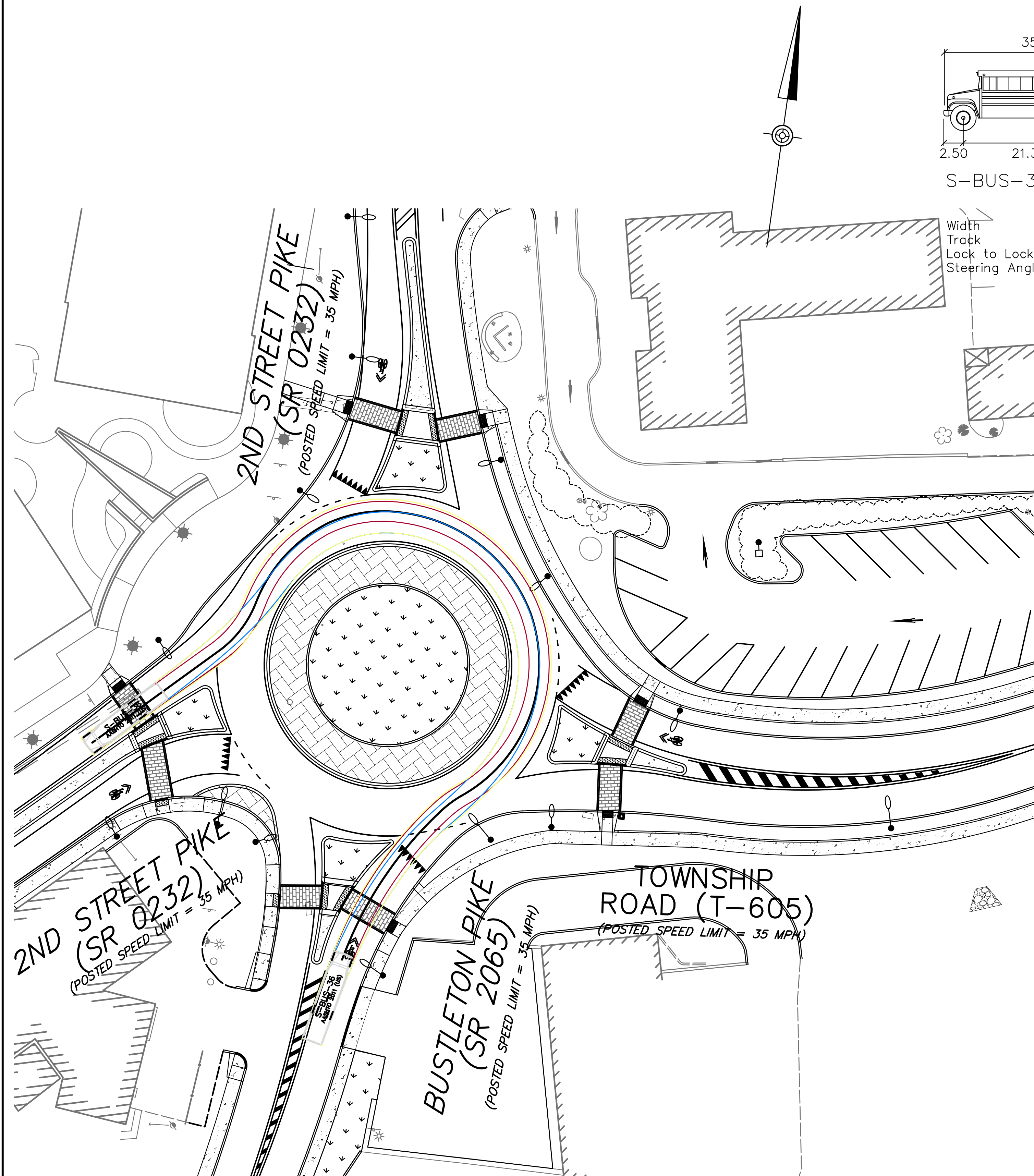
- FRONT TIRES
- REAR TIRES
- VEHICLE BODY
- CENTERLINE PATH



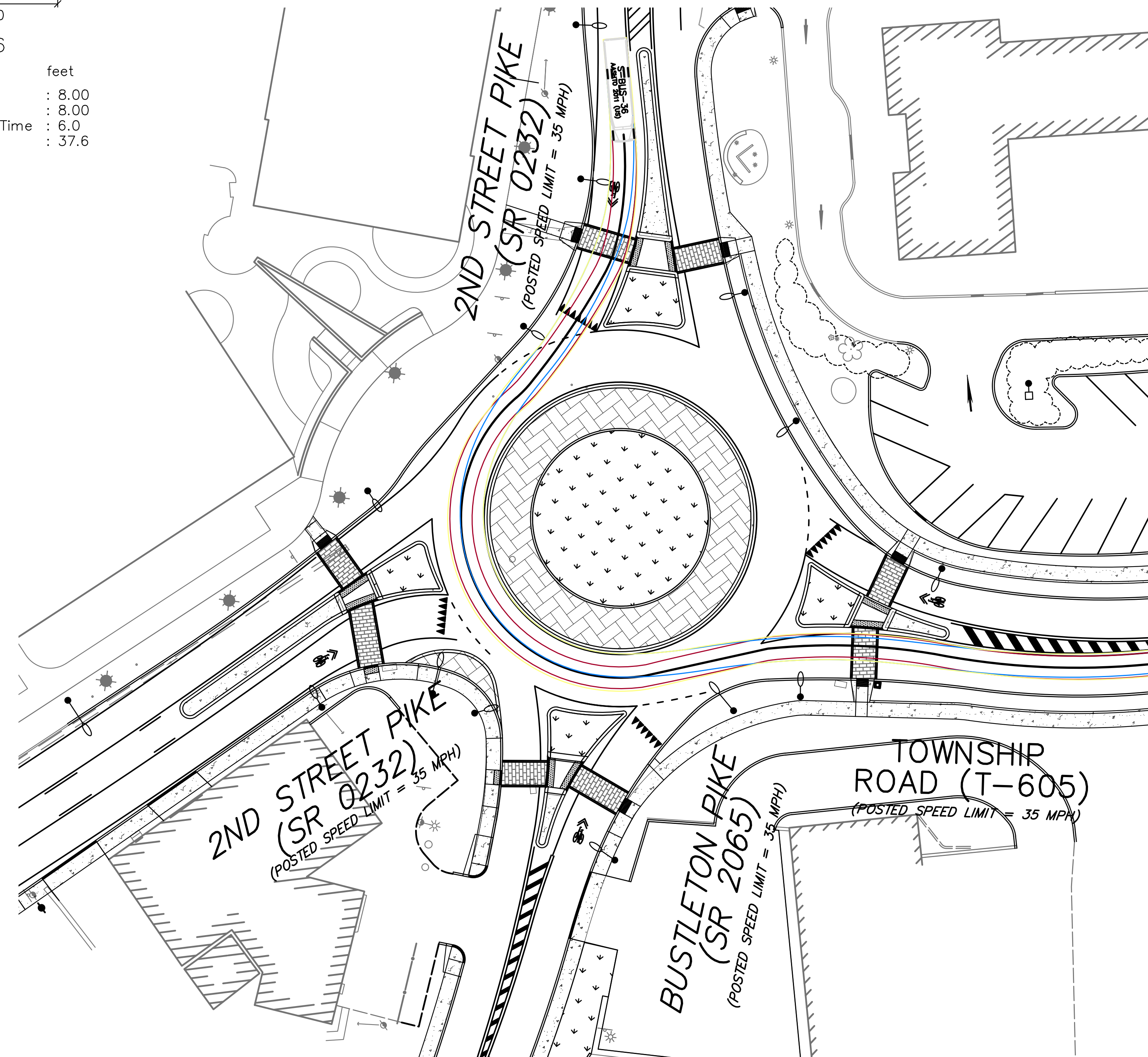
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	74 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



feet
 Width : 8.00
 Track : 8.00
 Lock to Lock Time : 6.0
 Steering Angle : 37.6



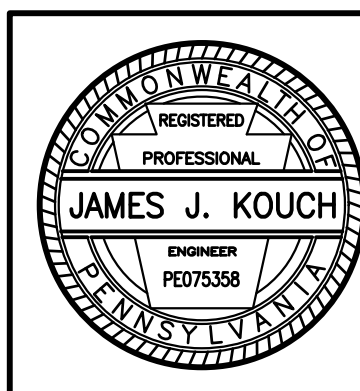
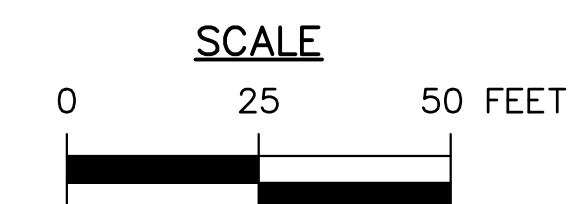
**S.R. 2065 LEFT TURN
 MOVEMENT ONTO S.R. 0232
 SCHOOL BUS**



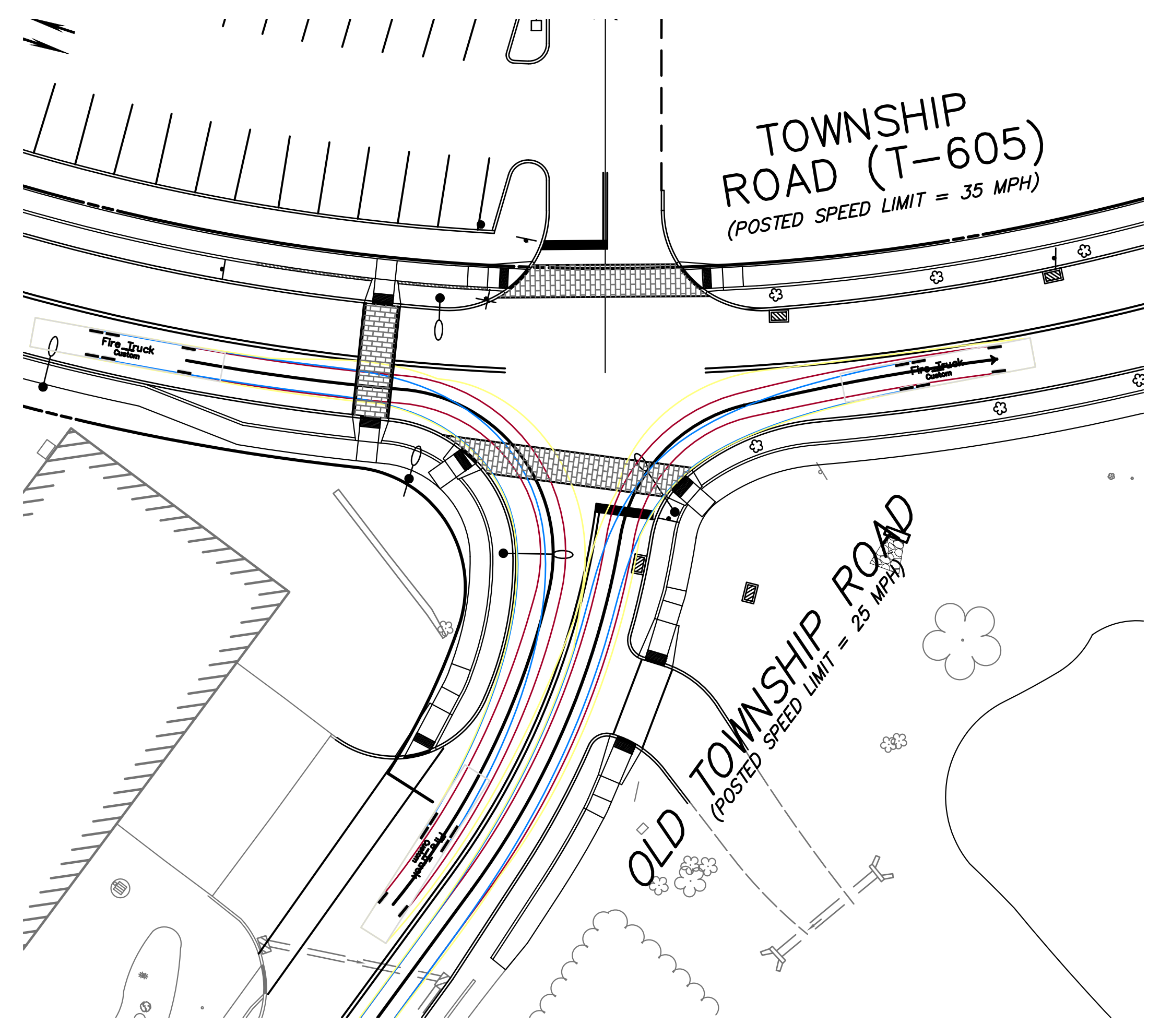
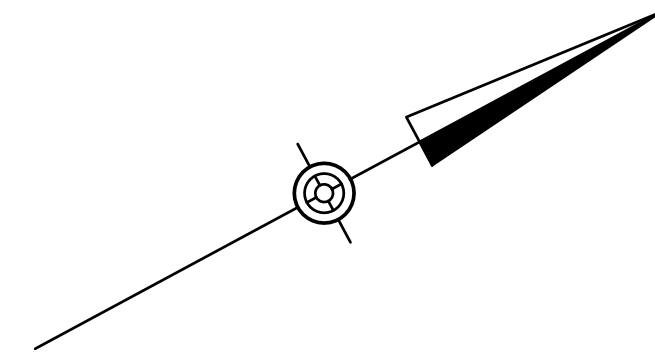
**S.R. 0232 LEFT TURN
 MOVEMENT ONTO T-605
 SCHOOL BUS**

LEGEND

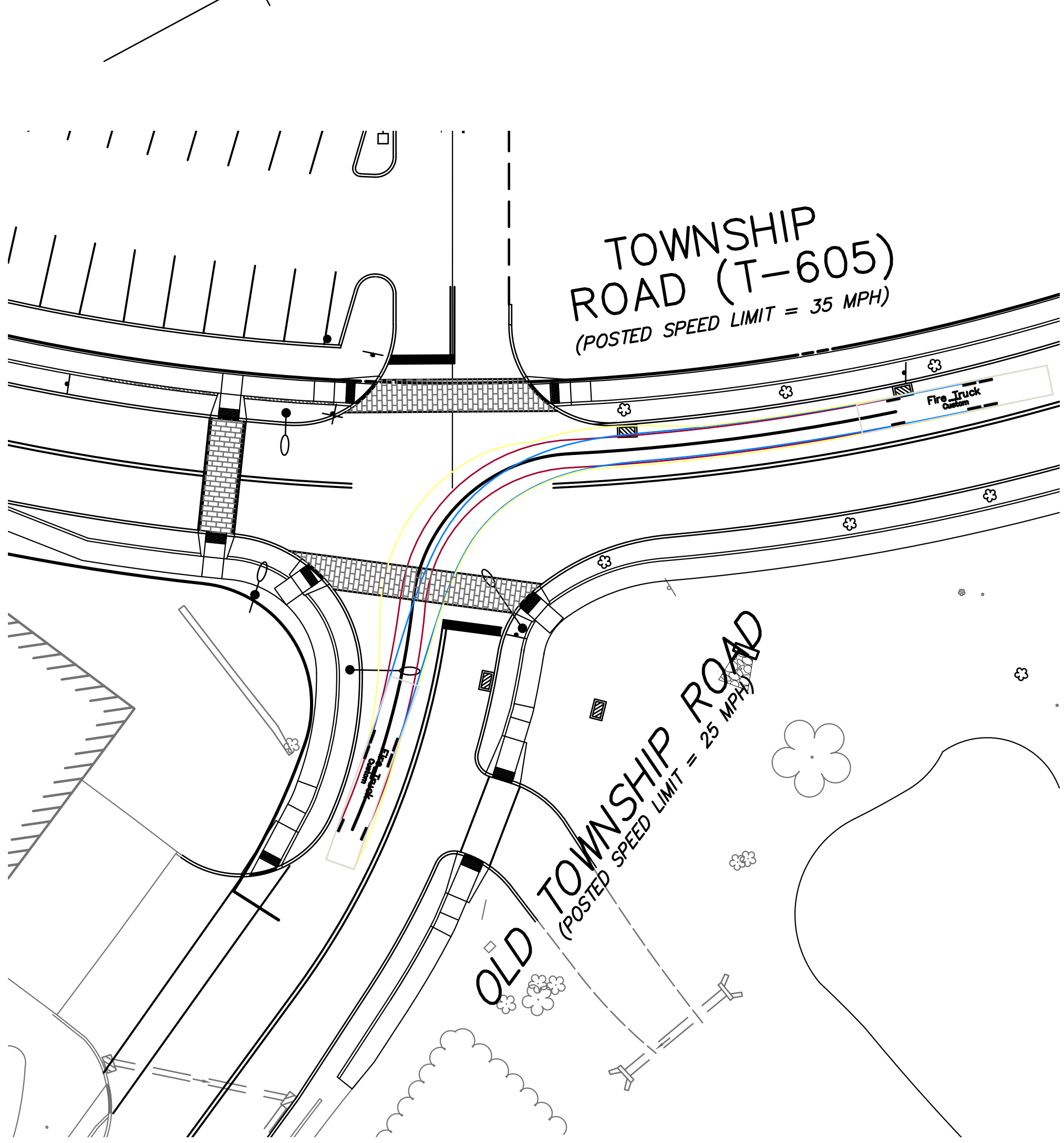
- FRONT TIRES
- REAR TIRES
- VEHICLE BODY
- CENTERLINE PATH



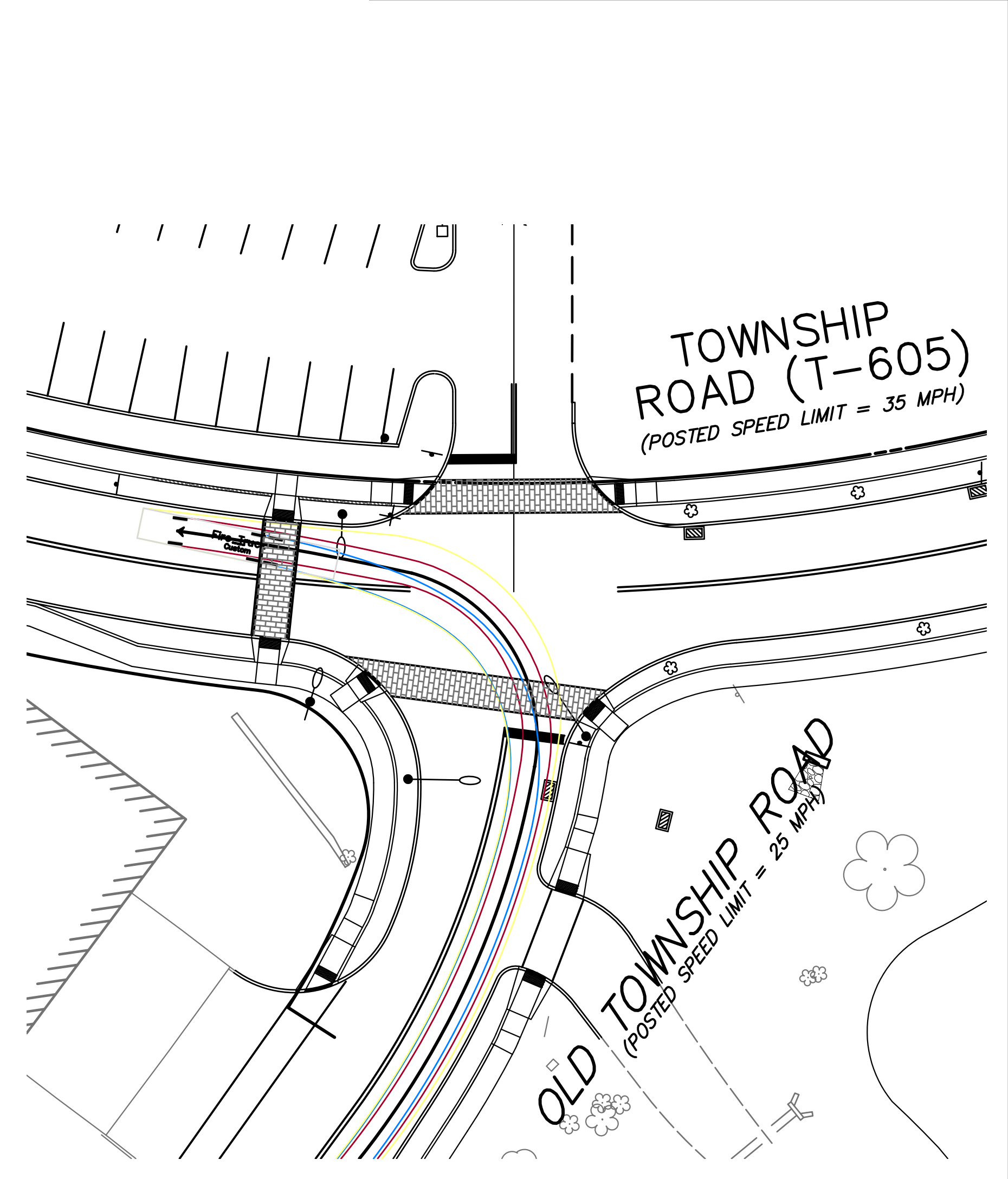
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	75 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



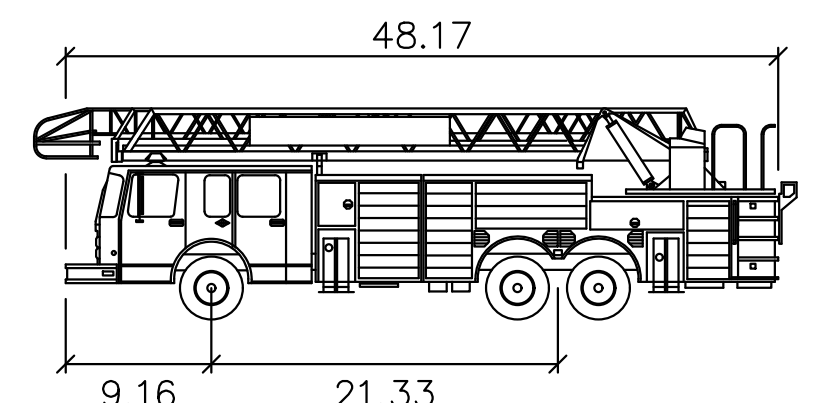
**TOWNSHIP ROAD RIGHT TURN ONTO OLD TOWNSHIP ROAD AND OLD TOWNSHIP ROAD RIGHT TURN ONTO TOWNSHIP ROAD
48' FIRE TRUCK**



**TOWNSHIP ROAD LEFT TURN ONTO OLD TOWNSHIP ROAD
48' FIRE TRUCK**



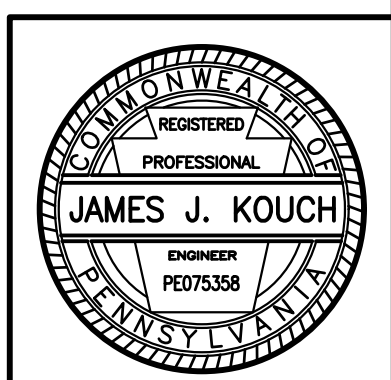
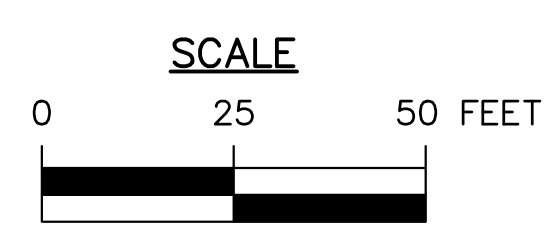
**OLD TOWNSHIP ROAD LEFT TURN ONTO TOWNSHIP ROAD
48' FIRE TRUCK**



Fire Truck

Width	: 7.33
Track	: 6.91
Lock to Lock Time	: 6.0
Steering Angle	: 41.5

- LEGEND**
- FRONT TIRES
 - REAR TIRES
 - VEHICLE BODY
 - CENTERLINE PATH



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

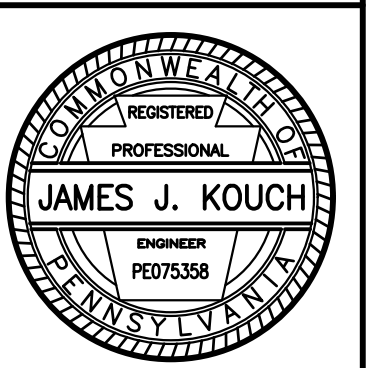
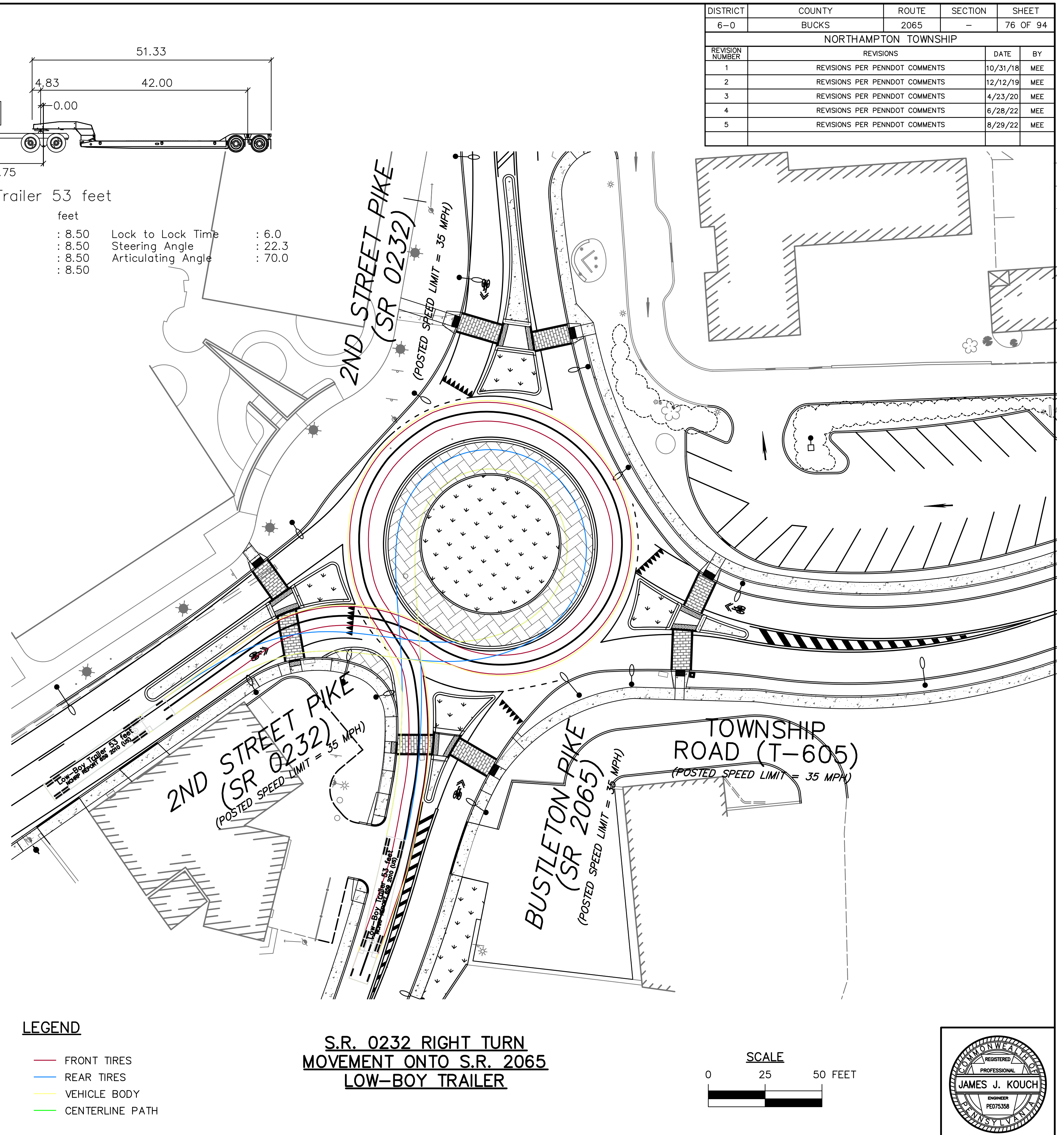
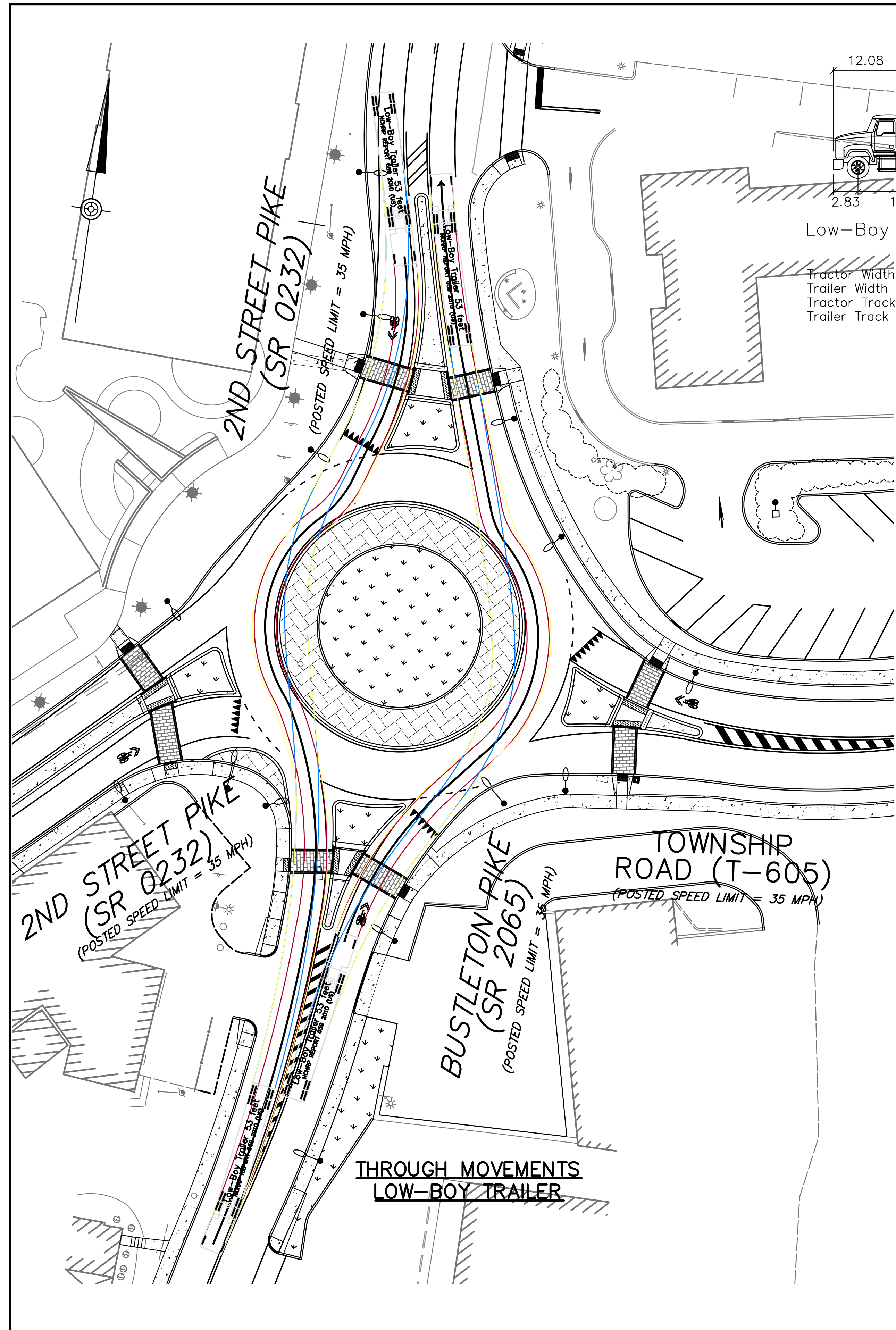
DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506TRK04
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

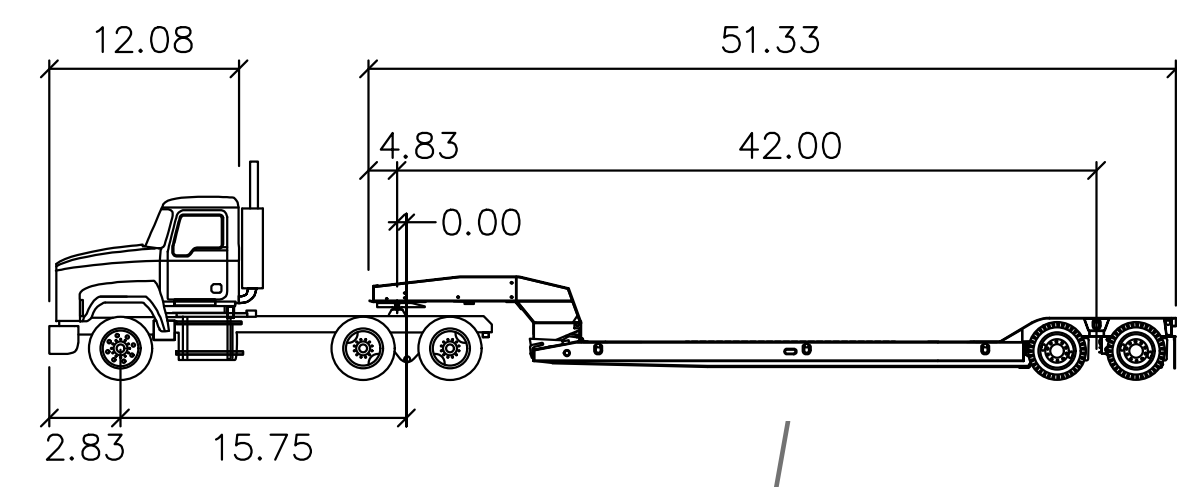
RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

TRUCK TURNING PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	76 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	77 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

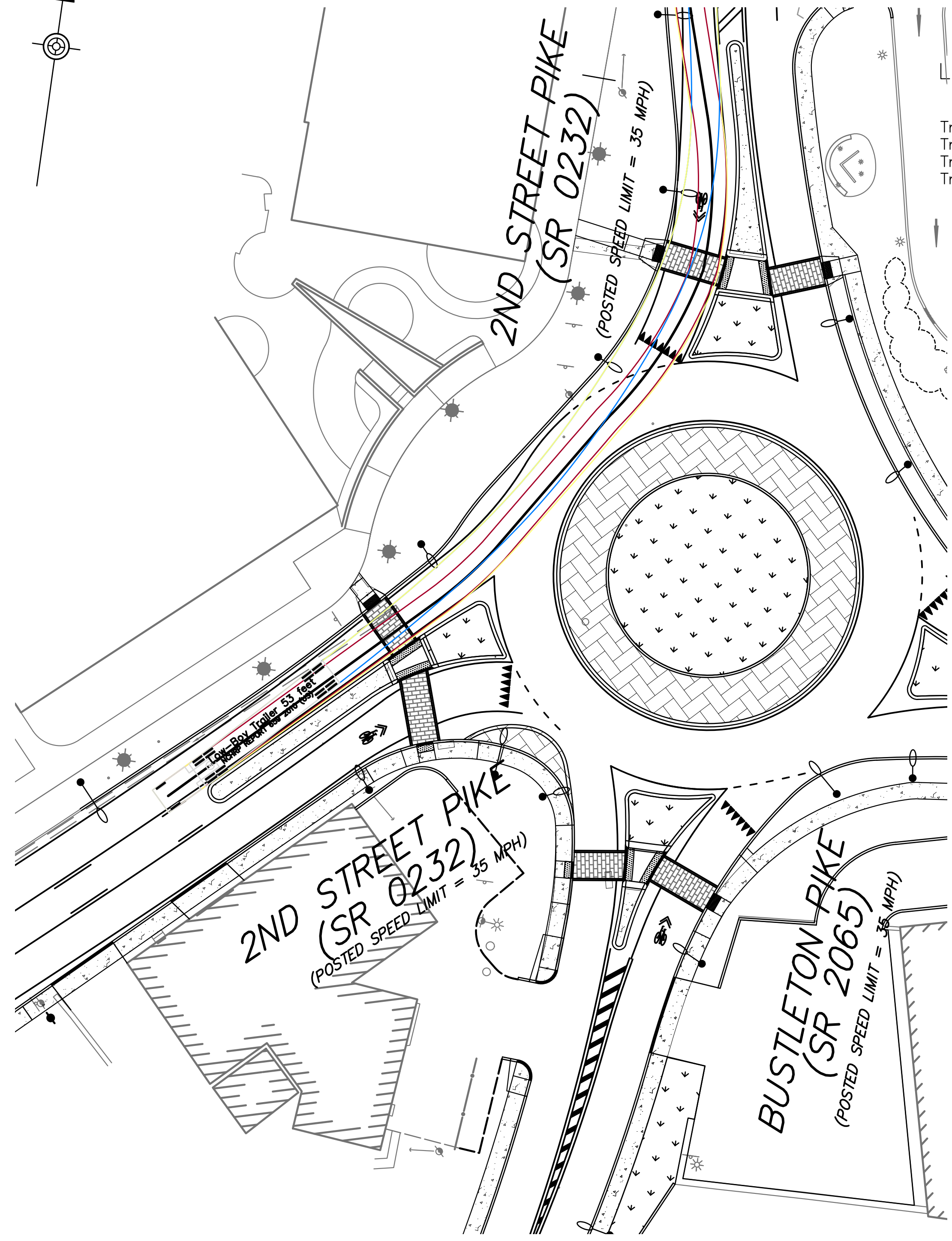


Low-Boy Trailer 53 feet

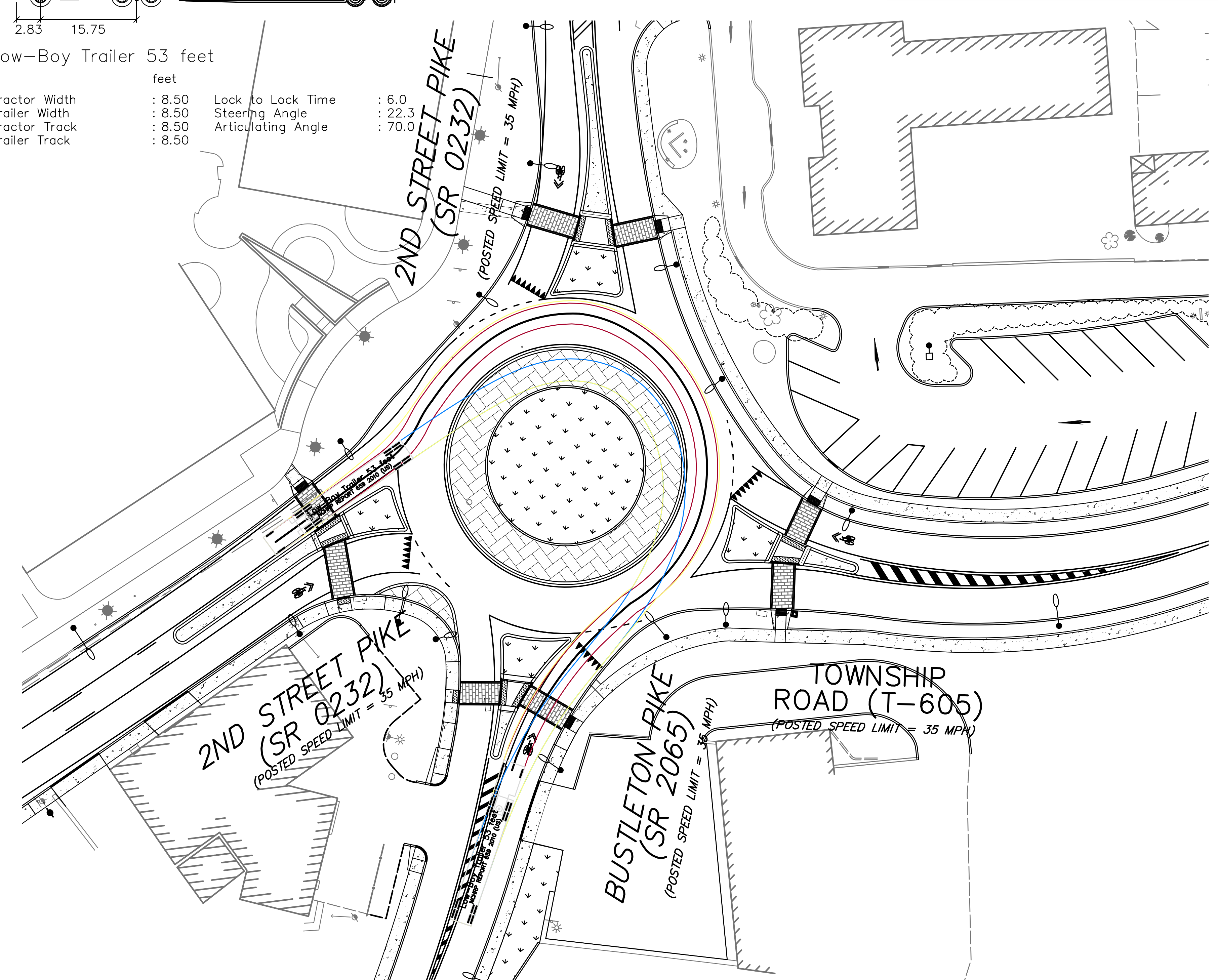
feet

Tractor Width : 8.50
 Trailer Width : 8.50
 Tractor Track : 8.50
 Trailer Track : 8.50

Lock to Lock Time : 6.0
 Steering Angle : 22.3
 Articulating Angle : 70.0

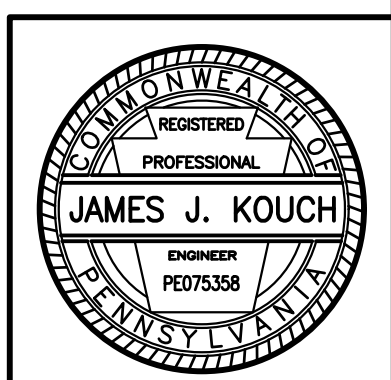
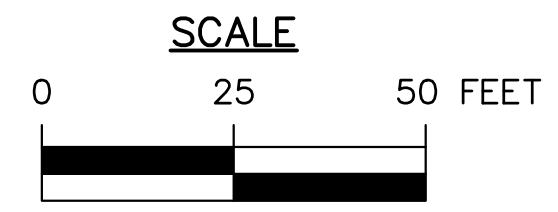


**S.R. 0232 RIGHT TURN
 MOVEMENT ONTO S.R. 0232
 LOW-BOY TRAILER**



**S.R. 2065 LEFT TURN
 MOVEMENT ONTO S.R. 0232
 LOW-BOY TRAILER**

- LEGEND**
- FRONT TIRES
 - REAR TIRES
 - VEHICLE BODY
 - CENTERLINE PATH



425 COMMERCE DRIVE
 SUITE 200
 FORT WASHINGTON, PA 19034
 PH: (215) 283-9444
 FAX: (215) 283-9447

DESIGN BY: KLY
 DRAWN BY: KLY
 CHECKED BY: BDD

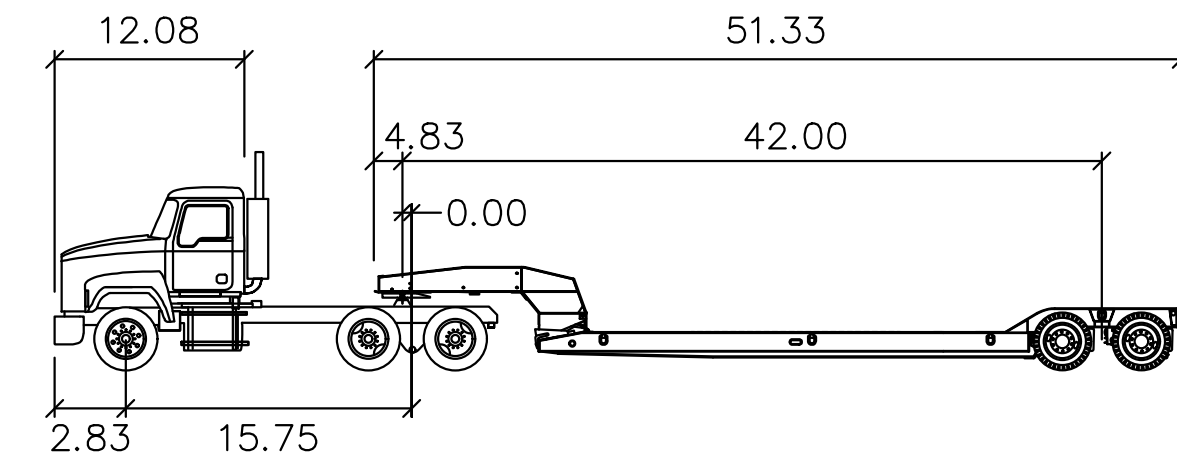
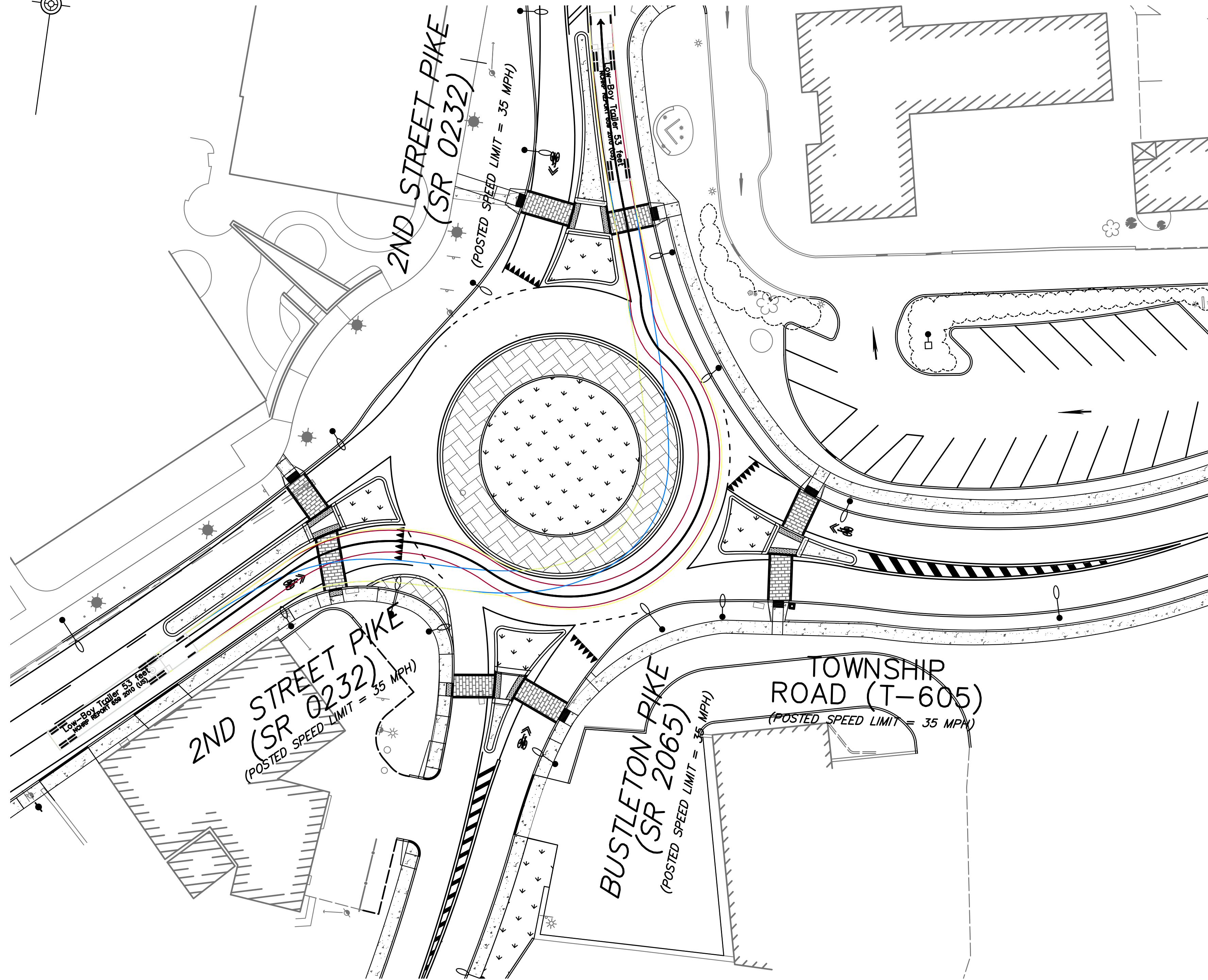
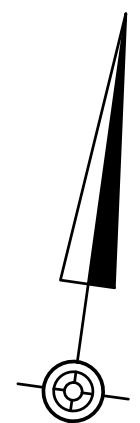
JOB NO: 816506.2A
 DWG: 506TRK05
 DATE: 5/16/18

NORTHAMPTON TOWNSHIP
 55 TOWNSHIP RD
 RICHBORO, PA 18954
 (215) 357-6800

RICHBORO ROUNDABOUT
 2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
 NORTHAMPTON TOWNSHIP
 BUCKS COUNTY

TRUCK TURNING PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	78 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	



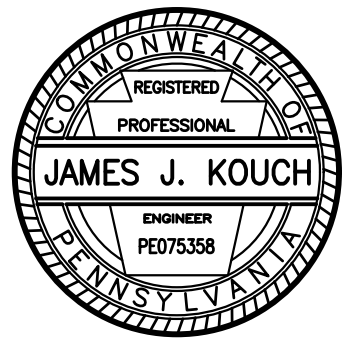
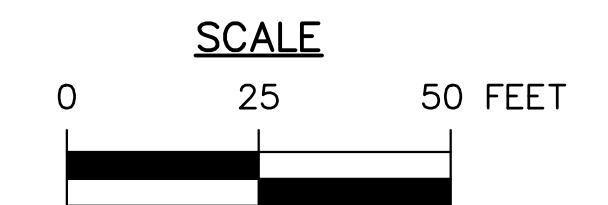
Low-Boy Trailer 53 feet

feet			
Tractor Width	: 8.50	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 22.3
Tractor Track	: 8.50	Articulating Angle	: 70.0
Trailer Track	: 8.50		

LEGEND

- FRONT TIRES
- REAR TIRES
- VEHICLE BODY
- CENTERLINE PATH

**S.R. 0232 LEFT TURN
MOVEMENT ONTO S.R. 0232
LOW-BOY TRAILER**



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY JOB NO: 816506.2A
DRAWN BY: KLY DWG: 506TRK05
CHECKED BY: BDD DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP BUCKS COUNTY

TRUCK TURNING PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	79 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

RAMP CONSTRUCTION PLAN TOWNSHIP ROAD (T-605)

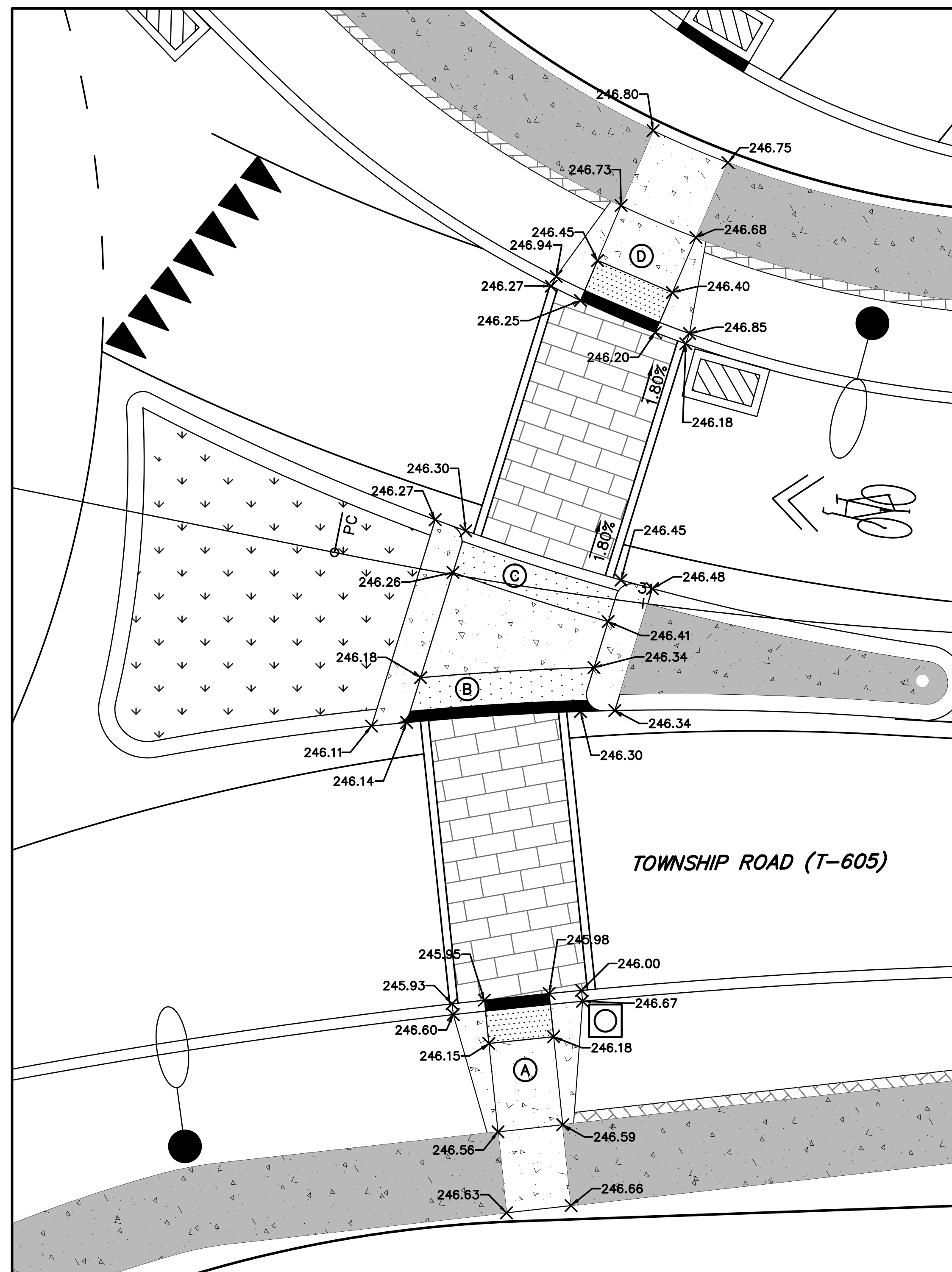
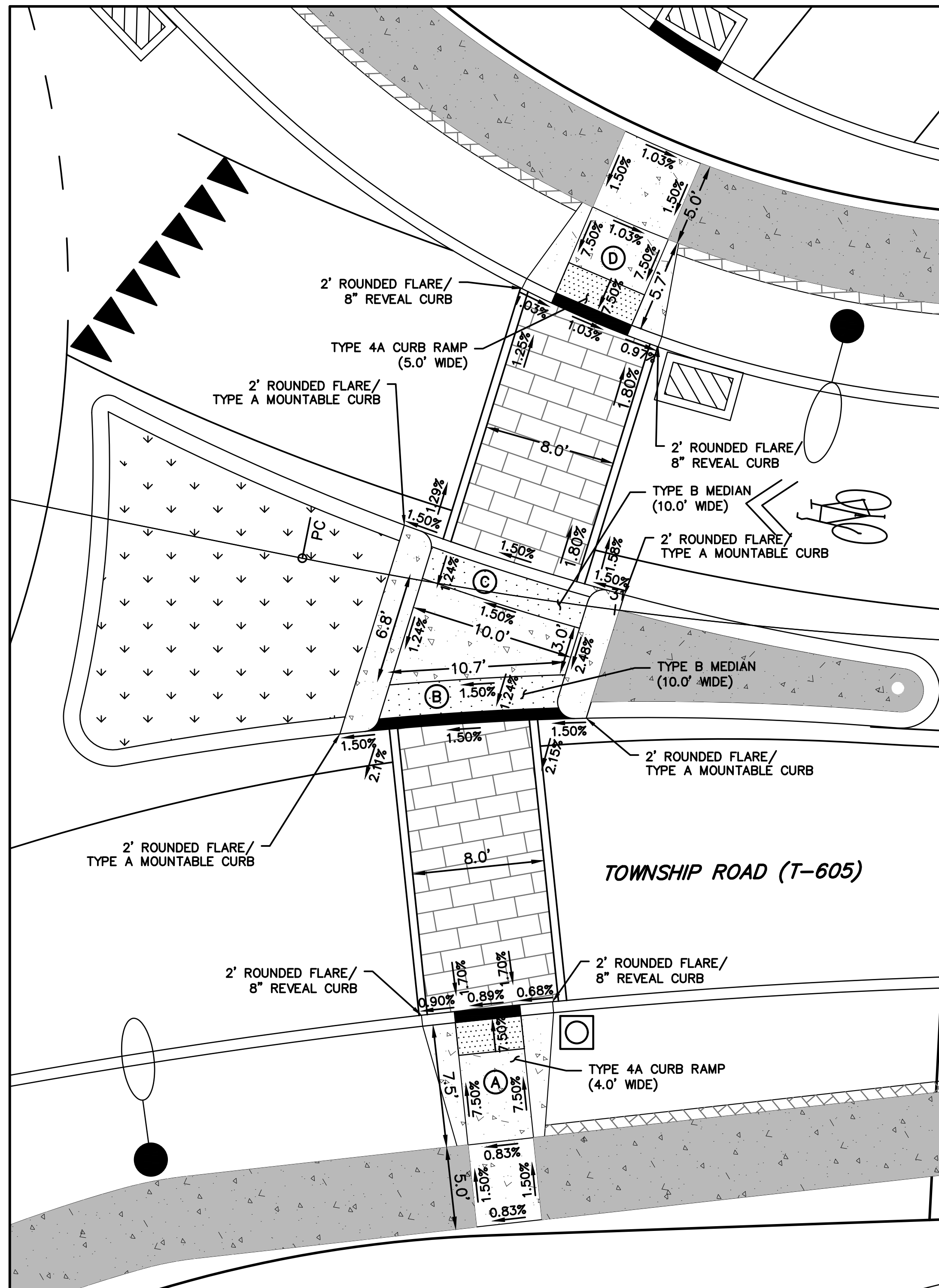
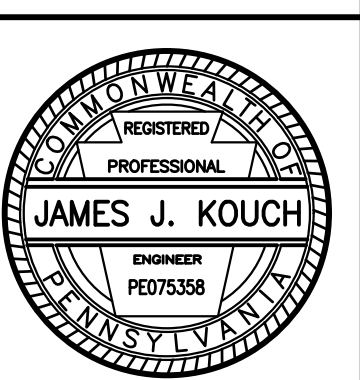
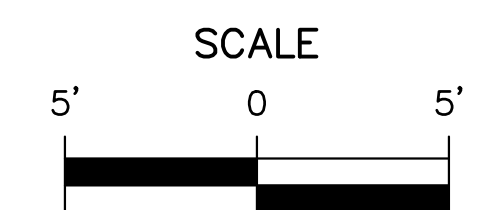


NOTES:

- THE LIMITS OF ALL SIDEWALK TRANSITION AREAS SHOULD MATCH THE EXISTING SIDEWALK ELEVATION. REPLACE SIDEWALK TO THE NEAREST SIDEWALK JOINT.
- WHEN SIDEWALK IS BEING LOWERED, THE GRASS AREA BEHIND THE SIDEWALK SHOULD BE REGRADED WITH A 3:1 MAXIMUM SLOPE.
- IF IT IS DETERMINED THAT THE PROPOSED SIDEWALK CAN BE LOWERED WITH GRADING OR EXTENDED DIRECTLY TO THE EXPOSED BUILDING/WALL FACADE THE CONTRACTOR IS DIRECTED TO COORDINATE THE REMOVAL OF THE CHEEK WALL FROM THE FINAL CONSTRUCTION WITH THE RESIDENT ENGINEER OR HIS/HER DESIGNEE.
- RESET ALL UTILITY VALVES, COVERS AND MANHOLES TO GRADE, AS NECESSARY.
- IN THE EVENT THAT THERE ARE ANY DISCREPANCIES FOUND BETWEEN THE PROPOSED SLOPES AND PROPOSED SPOT ELEVATIONS/ DISTANCES, THE CONTRACTOR MUST CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

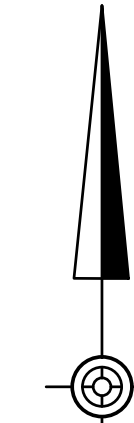
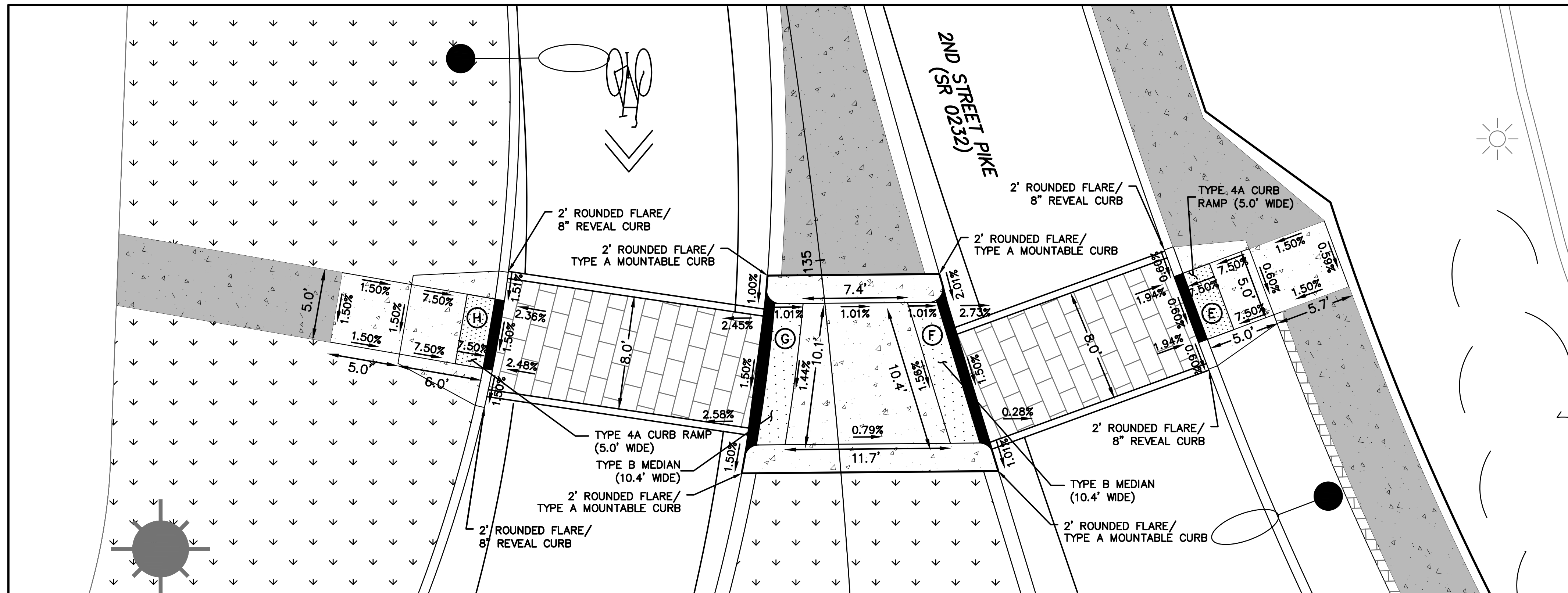
LEGEND

	EXISTING JUNCTION BOX	× 550.00	PROPOSED ELEVATION
	EXISTING WATER VALVE	× TSn 550.00	TOP OF nTH STEP, PROPOSED ELEVATION
	EXISTING GAS VALVE		
	EXISTING MANHOLE	× 550.00	EXISTING ELEVATION
	EXISTING FIRE HYDRANT		
	EXISTING INLET GRATE		
	EXISTING CITY INLET		
	EXISTING UTILITY/CATENARY POLE		
	EXISTING TRAFFIC SIGNAL		
	SURVEY BENCHMARK LOCATION		
	TRAFFIC SIGNAL PUSHBUTTON		
	TRAFFIC SIGNAL PEDESTAL		
	TRAFFIC SIGNAL SUPPORT, C-POST		
	3" CONDUIT PUSHBUTTON SUPPORT		
	CURB RAMP IDENTIFIER		
	CONCRETE SIDEWALK/TRANSITION AREA		
	PAVEMENT ADJUSTMENT		
	DETECTABLE WARNING SURFACE		
	CONCRETE CURB RAMP		
	GRASS SEEDING AND SOIL SUPPLEMENTS		
	PROPOSED STEP		



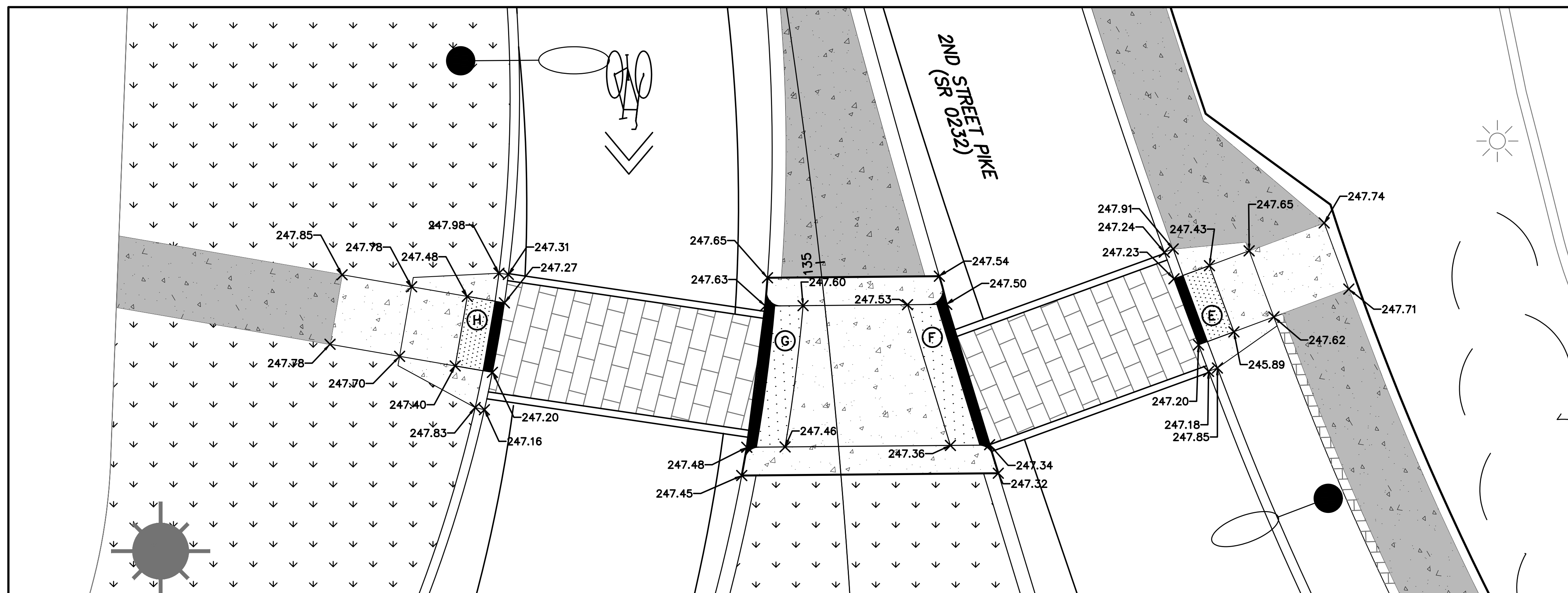
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	80 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

RAMP CONSTRUCTION PLAN 2ND STREET PIKE (SR 0232)



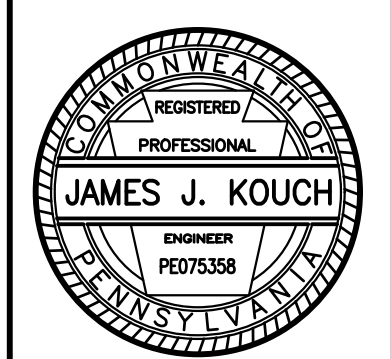
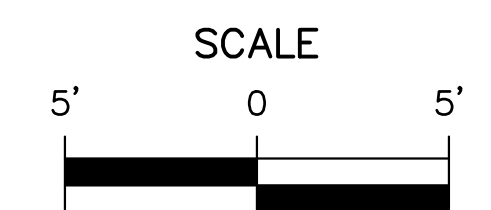
NOTES:

1. THE LIMITS OF ALL SIDEWALK TRANSITION AREAS SHOULD MATCH THE EXISTING SIDEWALK ELEVATION. REPLACE SIDEWALK TO THE NEAREST SIDEWALK JOINT.
2. WHEN SIDEWALK IS BEING LOWERED, THE GRASS AREA BEHIND THE SIDEWALK SHOULD BE REGRADED WITH A 3:1 MAXIMUM SLOPE.
3. IF IT IS DETERMINED THAT THE PROPOSED SIDEWALK CAN BE LOWERED WITH GRADING OR EXTENDED DIRECTLY TO THE EXPOSED BUILDING/WALL FACADE THE CONTRACTOR IS DIRECTED TO COORDINATE THE REMOVAL OF THE CHEEK WALL FROM THE FINAL CONSTRUCTION WITH THE RESIDENT ENGINEER OR HIS/HER DESIGNEE.
4. RESET ALL UTILITY VALVES, COVERS AND MANHOLES TO GRADE, AS NECESSARY.
5. IN THE EVENT THAT THERE ARE ANY DISCREPANCIES FOUND BETWEEN THE PROPOSED SLOPES AND PROPOSED SPOT ELEVATIONS/ DISTANCES, THE CONTRACTOR MUST CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.



LEGEND

	EXISTING JUNCTION BOX		PROPOSED ELEVATION
	EXISTING WATER VALVE		TOP OF nTH STEP, PROPOSED ELEVATION
	EXISTING GAS VALVE		
	EXISTING MANHOLE		EXISTING ELEVATION
	EXISTING FIRE HYDRANT		
	EXISTING INLET GRATE		CONCRETE SIDEWALK/ TRANSITION AREA
	EXISTING CITY INLET		PAVEMENT ADJUSTMENT
	EXISTING UTILITY/CATENARY POLE		DETECTABLE WARNING SURFACE
	EXISTING TRAFFIC SIGNAL		CONCRETE CURB RAMP
	SURVEY BENCHMARK LOCATION		GRASS SEEDING AND SOIL SUPPLEMENTS
	TRAFFIC SIGNAL PUSHBUTTON		PROPOSED STEP
	TRAFFIC SIGNAL PEDESTAL		
	TRAFFIC SIGNAL SUPPORT, C-POST		
	3" CONDUIT PUSHBUTTON SUPPORT		
	CURB RAMP IDENTIFIER		



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506ADA01
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

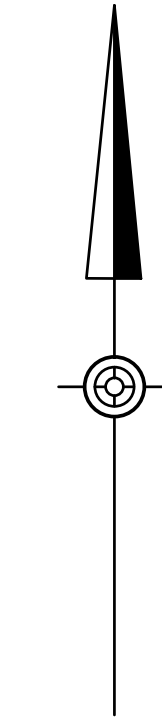
RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

ADA CURB RAMP PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	83 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

RAMP CONSTRUCTION PLAN

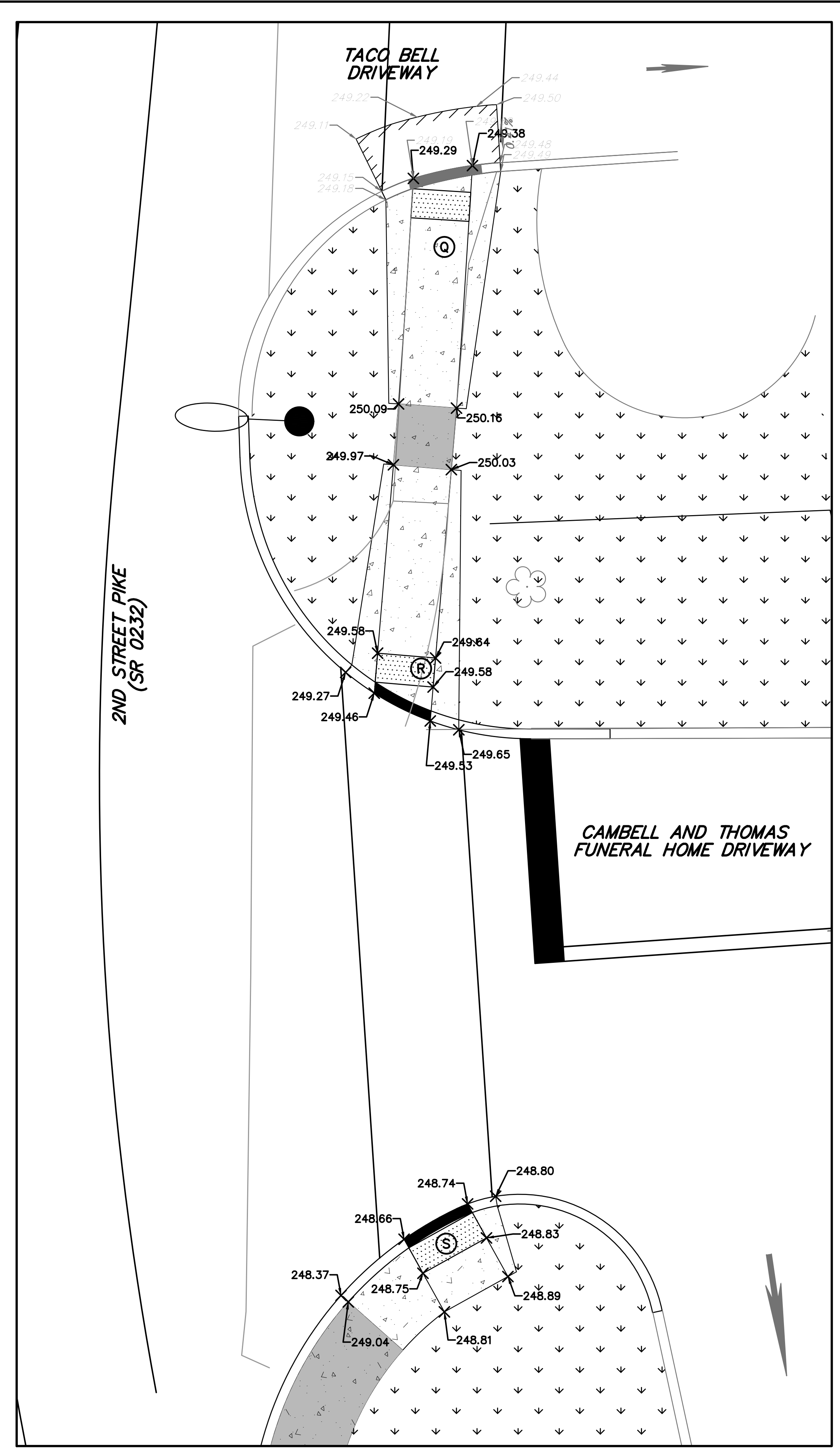
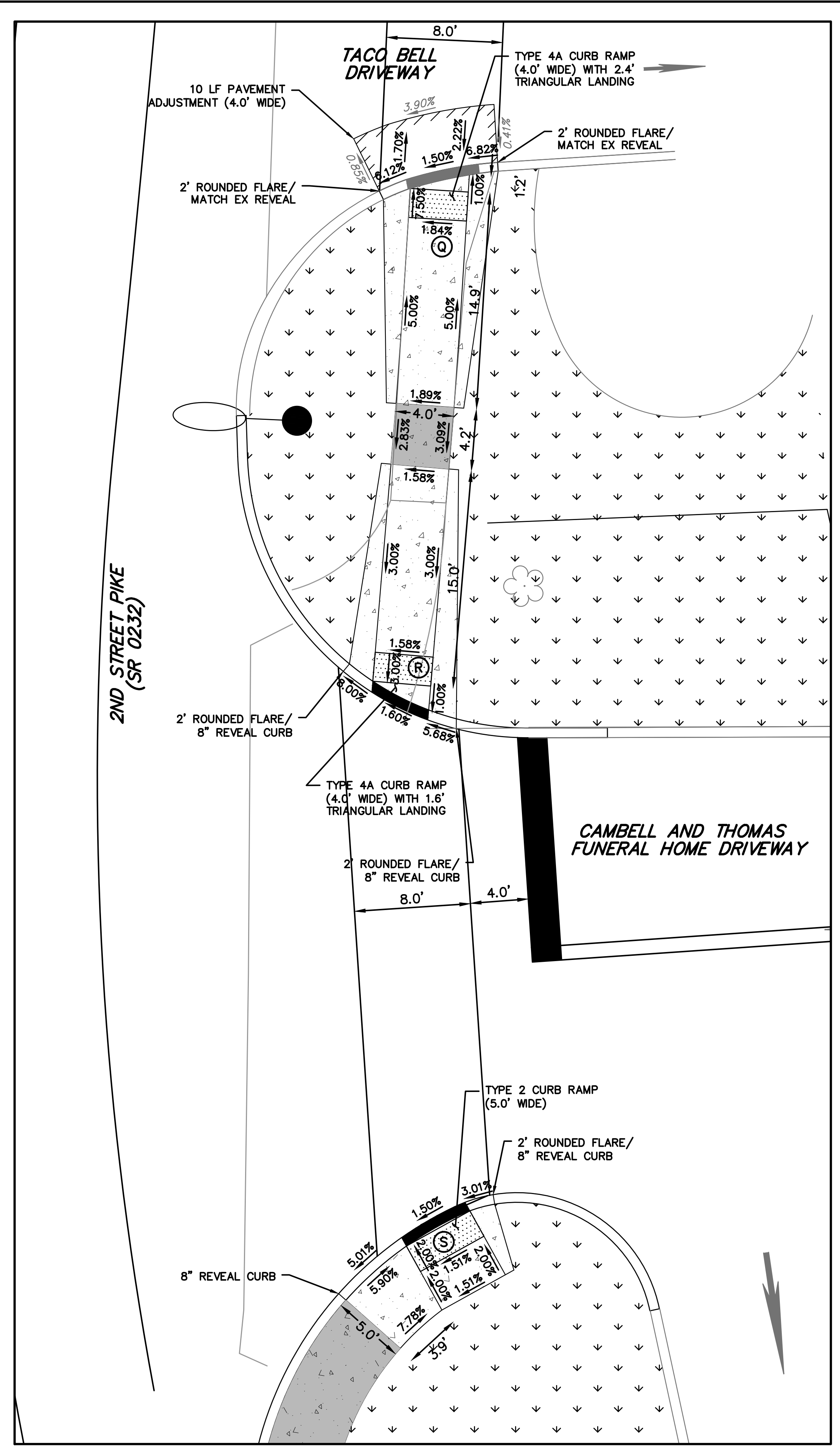
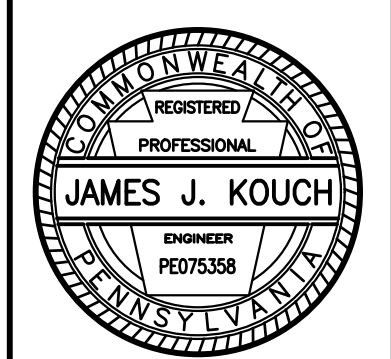
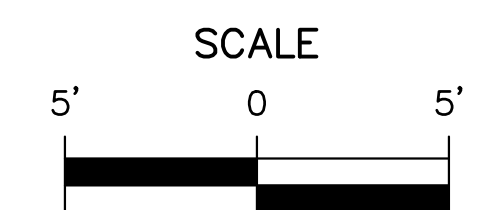
2ND STREET PIKE AND CAMBELL AND THOMAS FUNERAL HOME DRIVEWAY



- NOTES:**
1. THE LIMITS OF ALL SIDEWALK TRANSITION AREAS SHOULD MATCH THE EXISTING SIDEWALK ELEVATION. REPLACE SIDEWALK TO THE NEAREST SIDEWALK JOINT.
 2. WHEN SIDEWALK IS BEING LOWERED, THE GRASS AREA BEHIND THE SIDEWALK SHOULD BE REGRADED WITH A 3:1 MAXIMUM SLOPE.
 3. IF IT IS DETERMINED THAT THE PROPOSED SIDEWALK CAN BE LOWERED WITH GRADING OR EXTENDED DIRECTLY TO THE EXPOSED BUILDING/WALL FACADE THE CONTRACTOR IS DIRECTED TO COORDINATE THE REMOVAL OF THE CHEEK WALL FROM THE FINAL CONSTRUCTION WITH THE RESIDENT ENGINEER OR HIS/HER DESIGNEE.
 4. RESET ALL UTILITY VALVES, COVERS AND MANHOLES TO GRADE, AS NECESSARY.
 5. IN THE EVENT THAT THERE ARE ANY DISCREPANCIES FOUND BETWEEN THE PROPOSED SLOPES AND PROPOSED SPOT ELEVATIONS/ DISTANCES, THE CONTRACTOR MUST CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

LEGEND

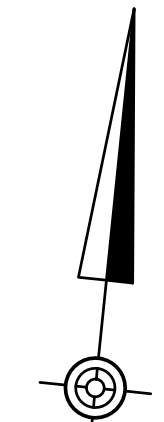
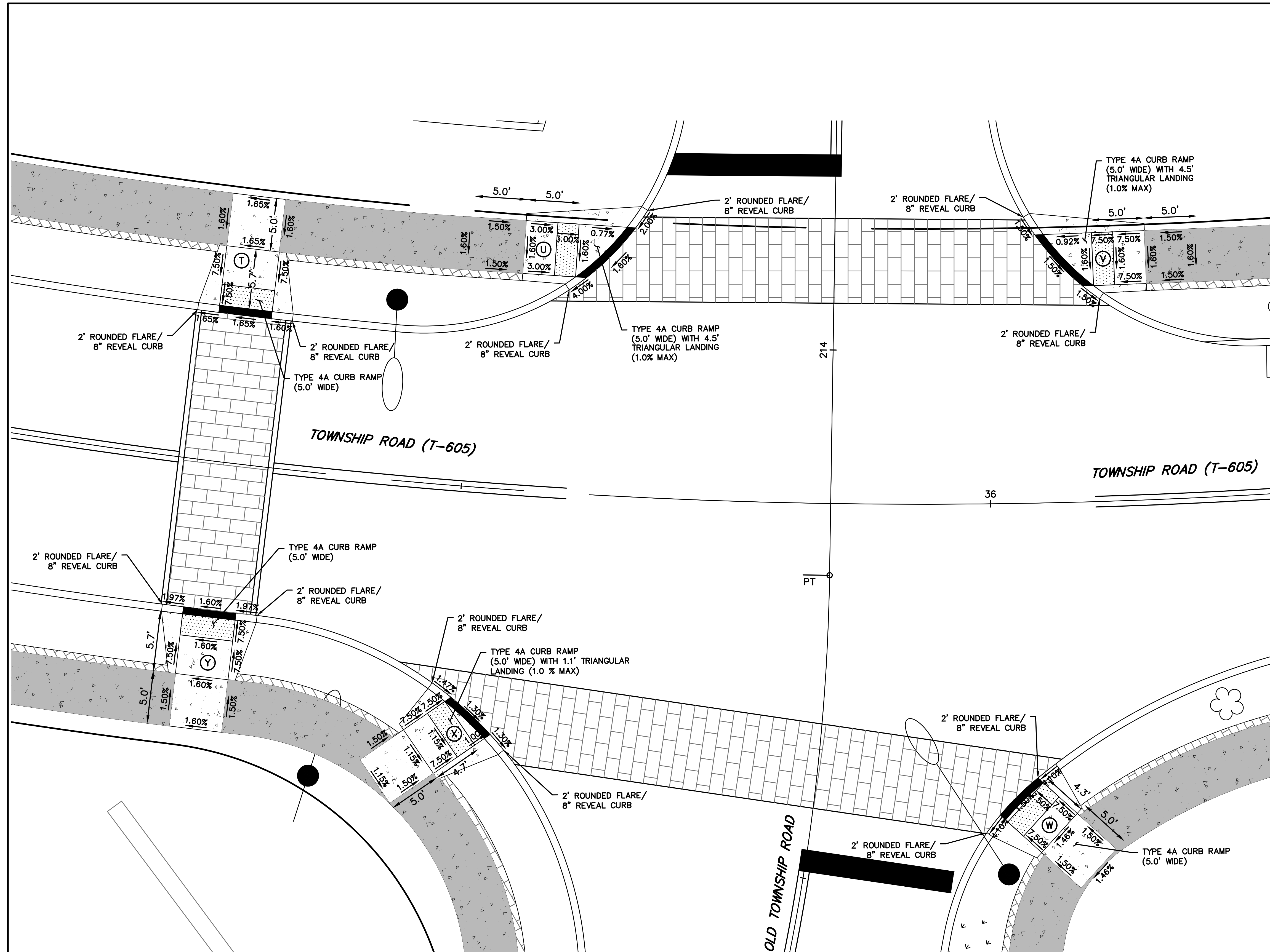
	EXISTING JUNCTION BOX	× 550.00	PROPOSED ELEVATION
	EXISTING WATER VALVE	× TSn 550.00	TOP OF nTH STEP, PROPOSED ELEVATION
	EXISTING GAS VALVE		
	EXISTING MANHOLE	× 550.00	EXISTING ELEVATION
	EXISTING FIRE HYDRANT		
	EXISTING INLET GRATE		
	EXISTING CITY INLET		
	EXISTING UTILITY/CATENARY POLE		
	EXISTING TRAFFIC SIGNAL		
	SURVEY BENCHMARK LOCATION		
	TRAFFIC SIGNAL PUSHBUTTON		
	TRAFFIC SIGNAL PEDESTAL		
	TRAFFIC SIGNAL SUPPORT, C-POST		
	3" CONDUIT PUSHBUTTON SUPPORT		
	CURB RAMP IDENTIFIER		
	CONCRETE SIDEWALK/TRANSITION AREA		
	PAVEMENT ADJUSTMENT		
	DETECTABLE WARNING SURFACE		
	CONCRETE CURB RAMP		
	GRASS SEEDING AND SOIL SUPPLEMENTS		
	PROPOSED STEP		



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	84 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

RAMP CONSTRUCTION PLAN

TOWNSHIP ROAD (T-605) AND OLD TOWNSHIP ROAD

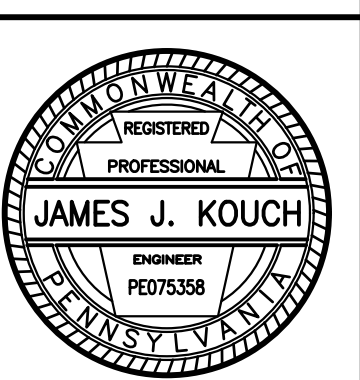
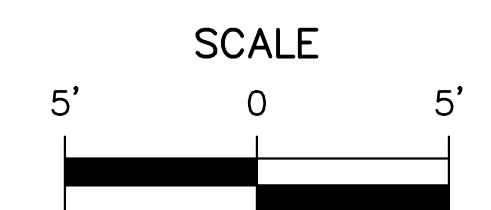


NOTES:

1. THE LIMITS OF ALL SIDEWALK TRANSITION AREAS SHOULD MATCH THE EXISTING SIDEWALK ELEVATION. REPLACE SIDEWALK TO THE NEAREST SIDEWALK JOINT.
2. WHEN SIDEWALK IS BEING LOWERED, THE GRASS AREA BEHIND THE SIDEWALK SHOULD BE REGRADED WITH A 3:1 MAXIMUM SLOPE.
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LEGEND

	EXISTING JUNCTION BOX		PROPOSED ELEVATION
	EXISTING WATER VALVE		TOP OF nTH STEP, PROPOSED ELEVATION
	EXISTING GAS VALVE		
	EXISTING MANHOLE		EXISTING ELEVATION
	EXISTING FIRE HYDRANT		
	EXISTING INLET GRATE		CONCRETE SIDEWALK/ TRANSITION AREA
	EXISTING CITY INLET		PAVEMENT ADJUSTMENT
	EXISTING UTILITY/CATENARY POLE		DETECTABLE WARNING SURFACE
	EXISTING TRAFFIC SIGNAL		CONCRETE CURB RAMP
	SURVEY BENCHMARK LOCATION		GRASS SEEDING AND SOIL SUPPLEMENTS
	TRAFFIC SIGNAL PUSHBUTTON		PROPOSED STEP
	TRAFFIC SIGNAL PEDESTAL		
	TRAFFIC SIGNAL SUPPORT, C-POST		
	3" CONDUIT PUSHBUTTON SUPPORT		
	CURB RAMP IDENTIFIER		



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NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

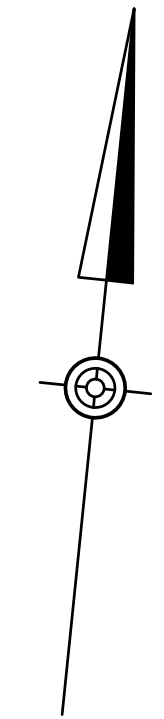
RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

ADA CURB RAMP PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	85 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

RAMP CONSTRUCTION PLAN

TOWNSHIP ROAD (T-605) AND OLD TOWNSHIP ROAD

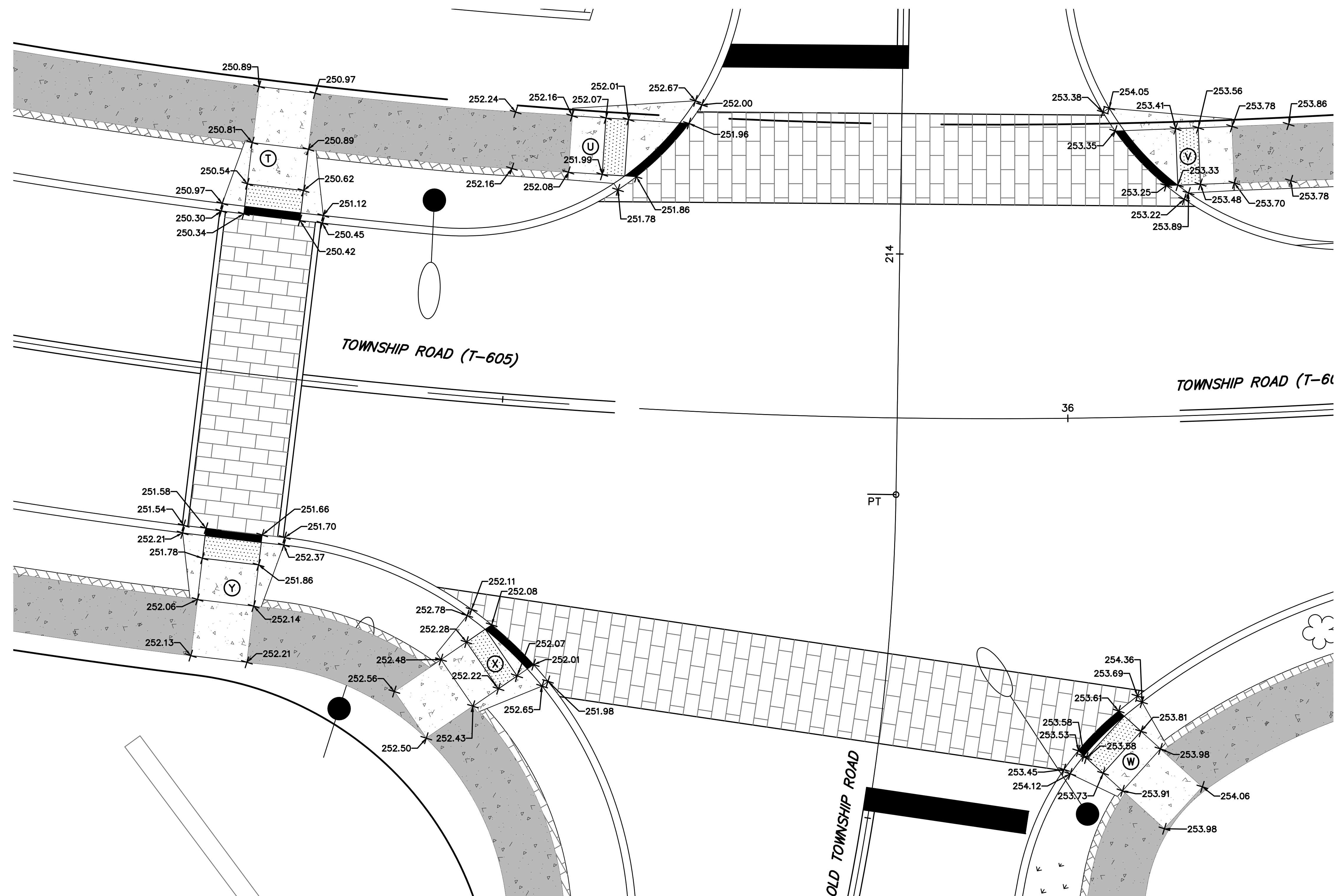
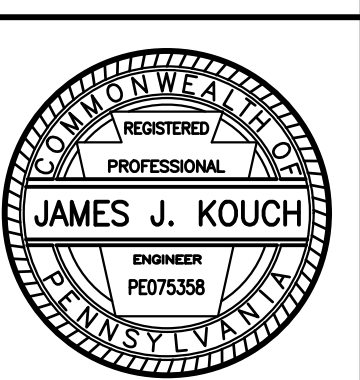
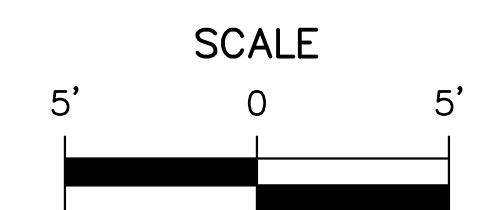


NOTES:

1. THE LIMITS OF ALL SIDEWALK TRANSITION AREAS SHOULD MATCH THE EXISTING SIDEWALK ELEVATION. REPLACE SIDEWALK TO THE NEAREST SIDEWALK JOINT.
2. WHEN SIDEWALK IS BEING LOWERED, THE GRASS AREA BEHIND THE SIDEWALK SHOULD BE REGRADED WITH A 3:1 MAXIMUM SLOPE.
3. IF IT IS DETERMINED THAT THE PROPOSED SIDEWALK CAN BE LOWERED WITH GRADING OR EXTENDED DIRECTLY TO THE EXPOSED BUILDING/WALL FACADE THE CONTRACTOR IS DIRECTED TO COORDINATE THE REMOVAL OF THE CHEEK WALL FROM THE FINAL CONSTRUCTION WITH THE RESIDENT ENGINEER OR HIS/HER DESIGNEE.
4. RESET ALL UTILITY VALVES, COVERS AND MANHOLES TO GRADE, AS NECESSARY.
5. IN THE EVENT THAT THERE ARE ANY DISCREPANCIES FOUND BETWEEN THE PROPOSED SLOPES AND PROPOSED SPOT ELEVATIONS/ DISTANCES, THE CONTRACTOR MUST CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

LEGEND

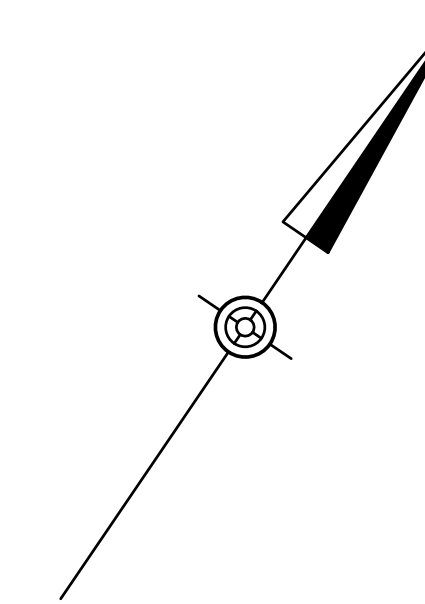
	EXISTING JUNCTION BOX	× 550.00	PROPOSED ELEVATION
	EXISTING WATER VALVE	× TSn 550.00	TOP OF nTH STEP, PROPOSED ELEVATION
	EXISTING GAS VALVE		
	EXISTING MANHOLE	× 550.00	EXISTING ELEVATION
	EXISTING FIRE HYDRANT		
	EXISTING INLET GRATE		
	EXISTING CITY INLET		
	EXISTING UTILITY/CATENARY POLE		
	EXISTING TRAFFIC SIGNAL		
	SURVEY BENCHMARK LOCATION		
	TRAFFIC SIGNAL PUSHBUTTON		
	TRAFFIC SIGNAL PEDESTAL		
	TRAFFIC SIGNAL SUPPORT, C-POST		
	3" CONDUIT PUSHBUTTON SUPPORT		
	CURB RAMP IDENTIFIER		
	CONCRETE SIDEWALK/TRANSITION AREA		
	PAVEMENT ADJUSTMENT		
	DETECTABLE WARNING SURFACE		
	CONCRETE CURB RAMP		
	GRASS SEEDING AND SOIL SUPPLEMENTS		
	PROPOSED STEP		



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	86 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

RAMP CONSTRUCTION PLAN

OLD TOWNSHIP ROAD AND RESCUE SQUAD DRIVEWAY

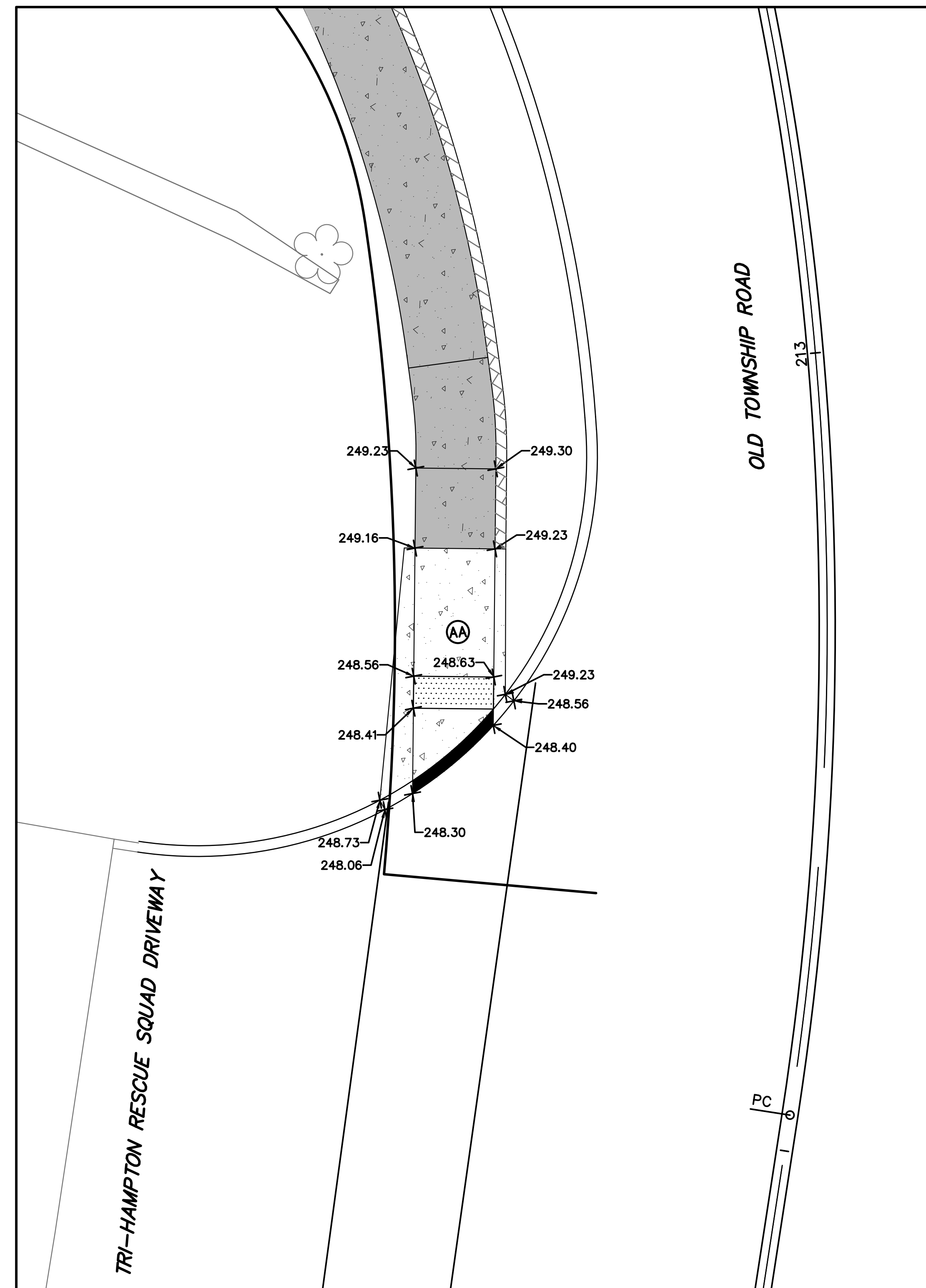
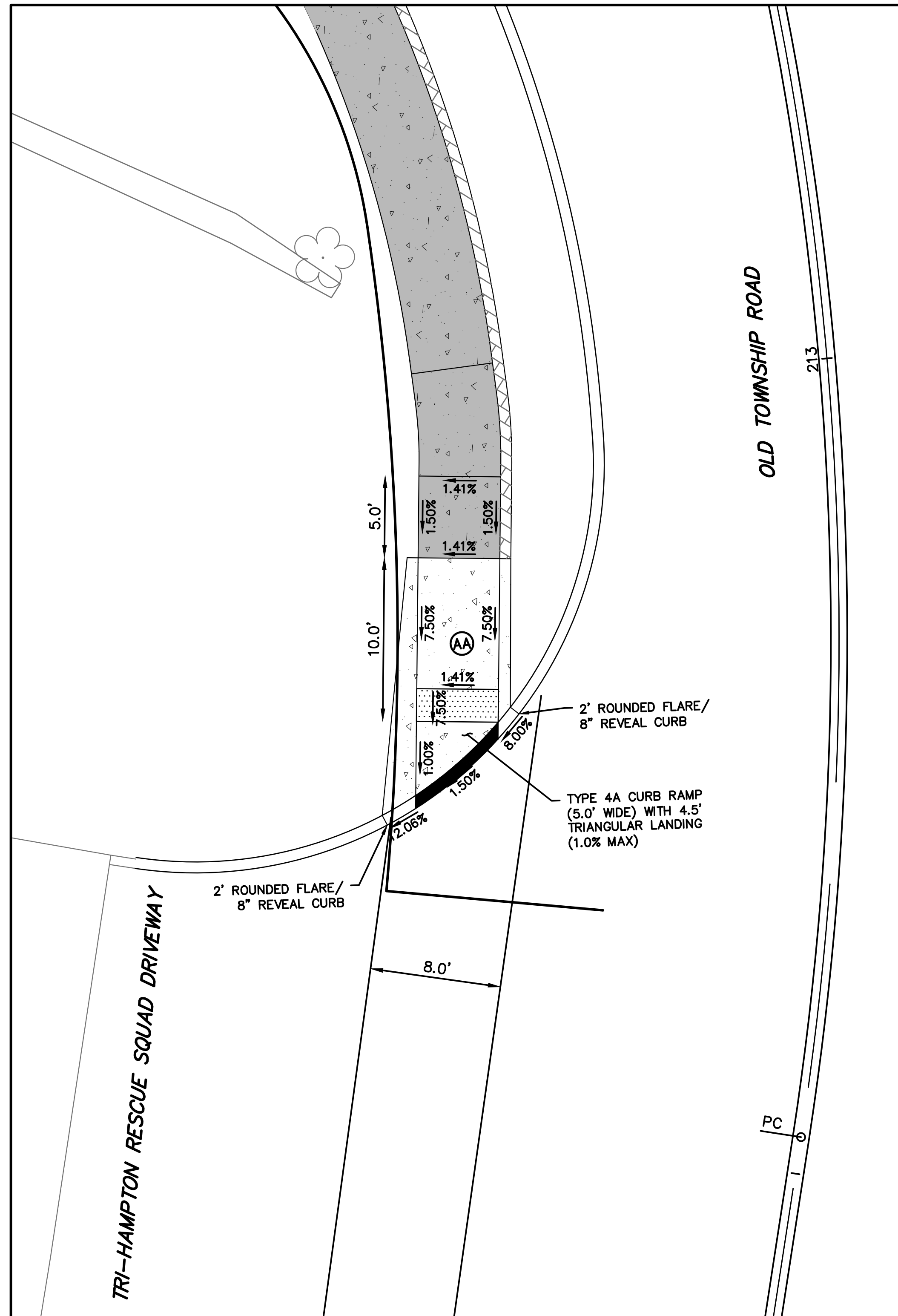
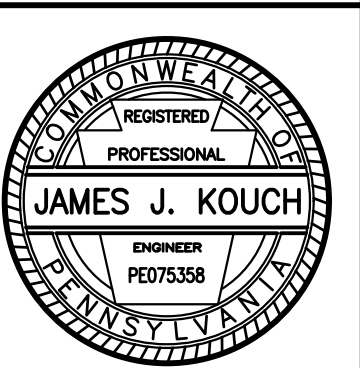
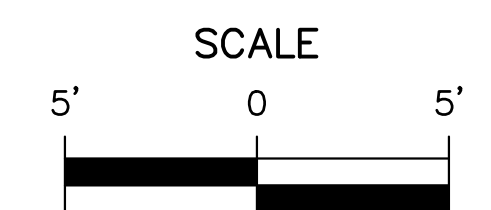


NOTES:

1. THE LIMITS OF ALL SIDEWALK TRANSITION AREAS SHOULD MATCH THE EXISTING SIDEWALK ELEVATION. REPLACE SIDEWALK TO THE NEAREST SIDEWALK JOINT.
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5. IN THE EVENT THAT THERE ARE ANY DISCREPANCIES FOUND BETWEEN THE PROPOSED SLOPES AND PROPOSED SPOT ELEVATIONS/ DISTANCES, THE CONTRACTOR MUST CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

LEGEND

	EXISTING JUNCTION BOX	x 550.00	PROPOSED ELEVATION
	EXISTING WATER VALVE	x TSn 550.00	TOP OF nTH STEP, PROPOSED ELEVATION
	EXISTING GAS VALVE		
	EXISTING MANHOLE	x 550.00	EXISTING ELEVATION
	EXISTING FIRE HYDRANT		
	EXISTING INLET GRATE		
	EXISTING CITY INLET		
	EXISTING UTILITY/CATENARY POLE		
	EXISTING TRAFFIC SIGNAL		
	SURVEY BENCHMARK LOCATION		
	TRAFFIC SIGNAL PUSHBUTTON		
	TRAFFIC SIGNAL PEDESTAL		
	TRAFFIC SIGNAL SUPPORT, C-POST		
	3" CONDUIT PUSHBUTTON SUPPORT		
	CURB RAMP IDENTIFIER		
	CONCRETE SIDEWALK/TRANSITION AREA		
	PAVEMENT ADJUSTMENT		
	DETECTABLE WARNING SURFACE		
	CONCRETE CURB RAMP		
	GRASS SEEDING AND SOIL SUPPLEMENTS		
	PROPOSED STEP		



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	87 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

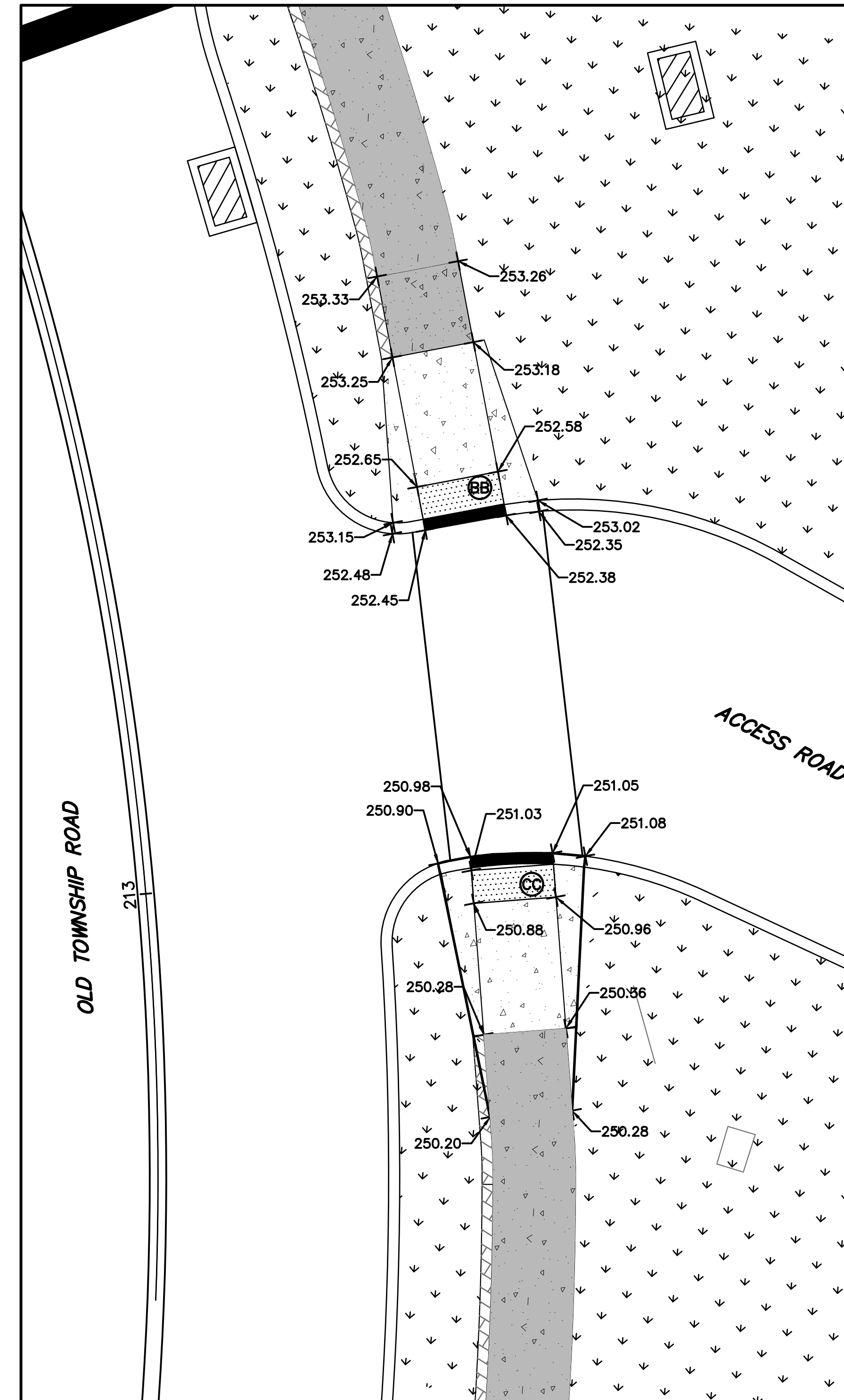
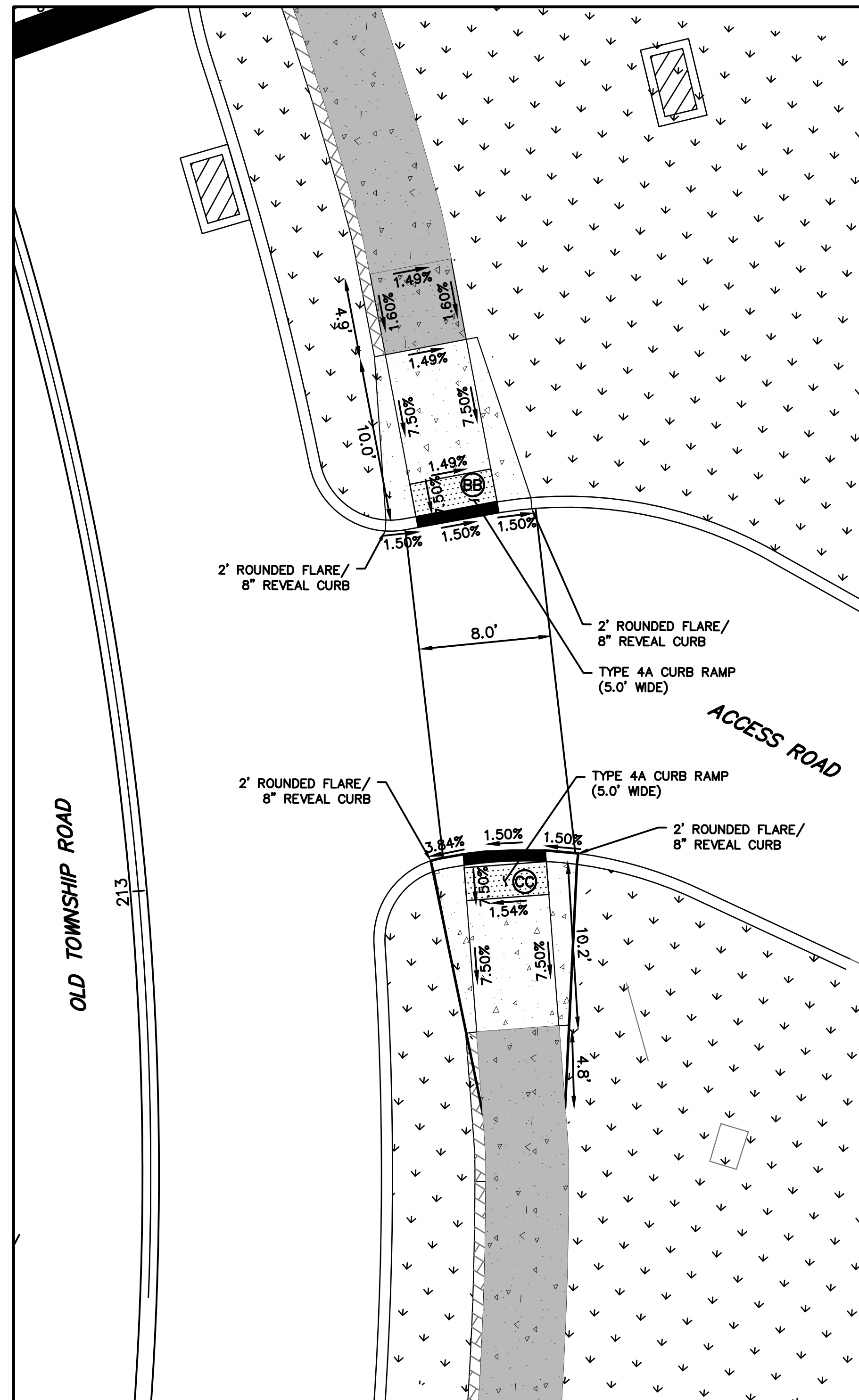
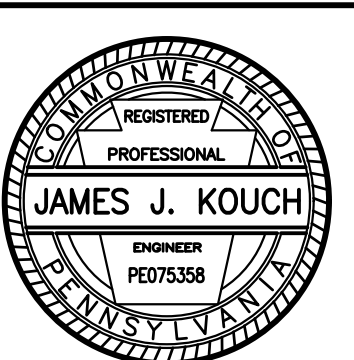
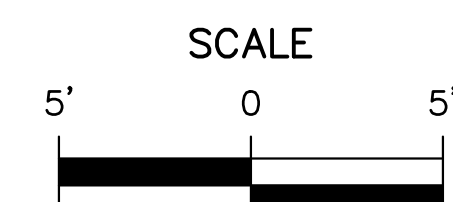
RAMP CONSTRUCTION PLAN TOWNSHIP ROAD (T-605) AND ACCESS ROAD

NOTES:

1. THE LIMITS OF ALL SIDEWALK TRANSITION AREAS SHOULD MATCH THE EXISTING SIDEWALK ELEVATION. REPLACE SIDEWALK TO THE NEAREST SIDEWALK JOINT.
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LEGEND

	EXISTING JUNCTION BOX		PROPOSED ELEVATION
	EXISTING WATER VALVE		TOP OF nTH STEP, PROPOSED ELEVATION
	EXISTING GAS VALVE		
	EXISTING MANHOLE		EXISTING ELEVATION
	EXISTING FIRE HYDRANT		
	EXISTING INLET GRATE		CONCRETE SIDEWALK/ TRANSITION AREA
	EXISTING CITY INLET		PAVEMENT ADJUSTMENT
	EXISTING UTILITY/CATENARY POLE		DETECTABLE WARNING SURFACE
	EXISTING TRAFFIC SIGNAL		CONCRETE CURB RAMP
	SURVEY BENCHMARK LOCATION		GRASS SEEDING AND SOIL SUPPLEMENTS
	TRAFFIC SIGNAL PUSHBUTTON		PROPOSED STEP
	TRAFFIC SIGNAL PEDESTAL		
	TRAFFIC SIGNAL SUPPORT, C-POST		
	3" CONDUIT PUSHBUTTON SUPPORT		
	CURB RAMP IDENTIFIER		



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	88 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
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4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

RAMP CONSTRUCTION PLAN

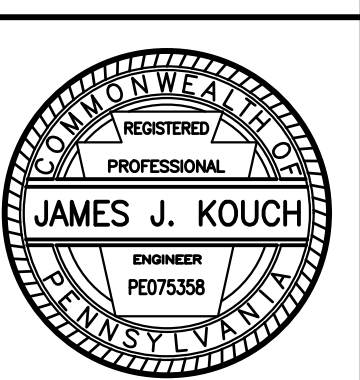
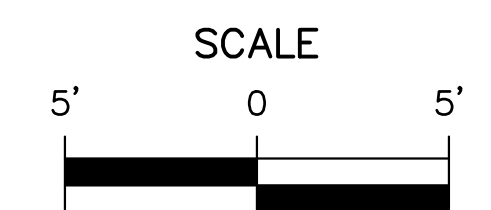
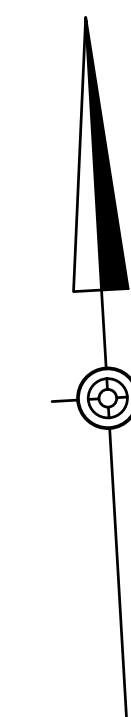
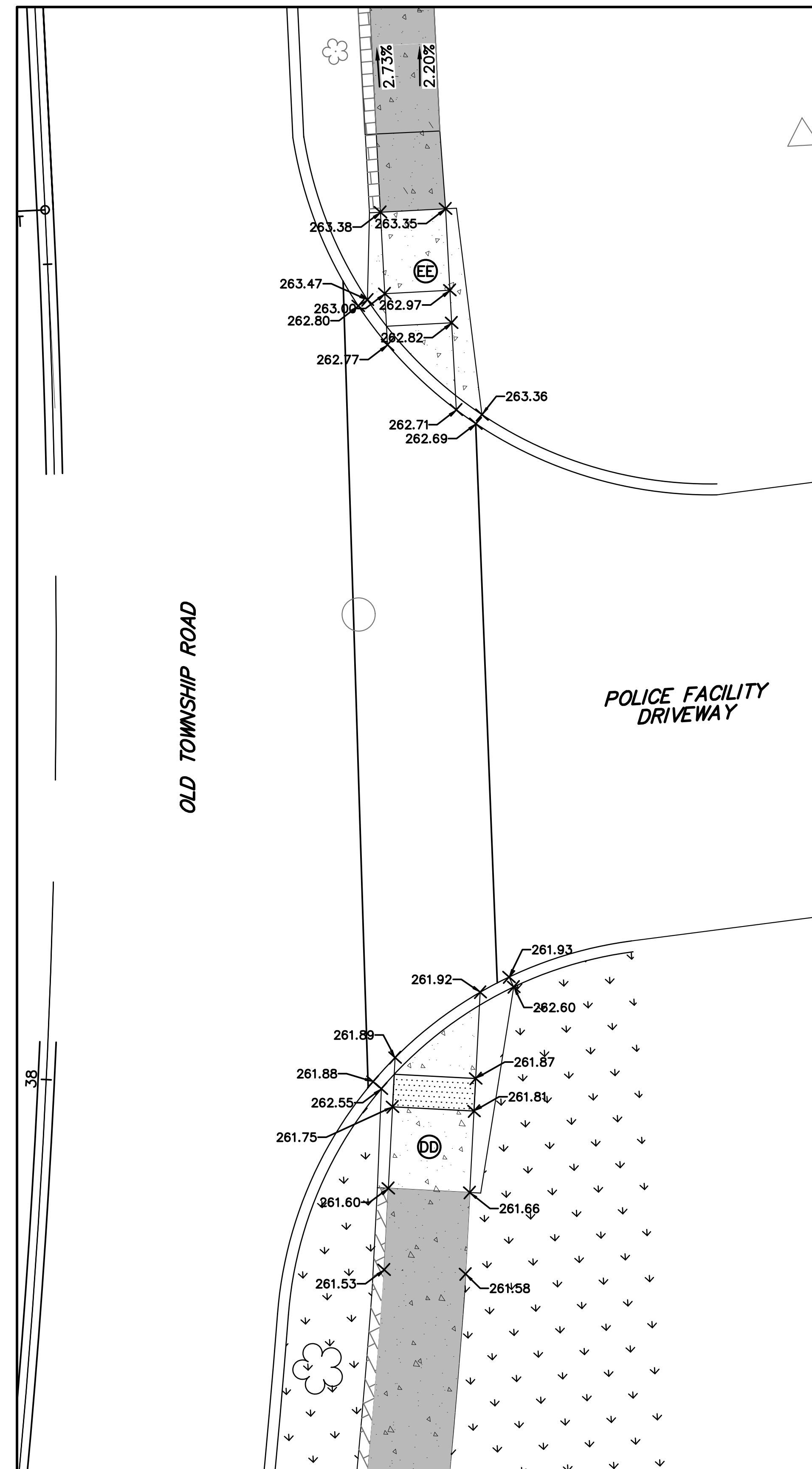
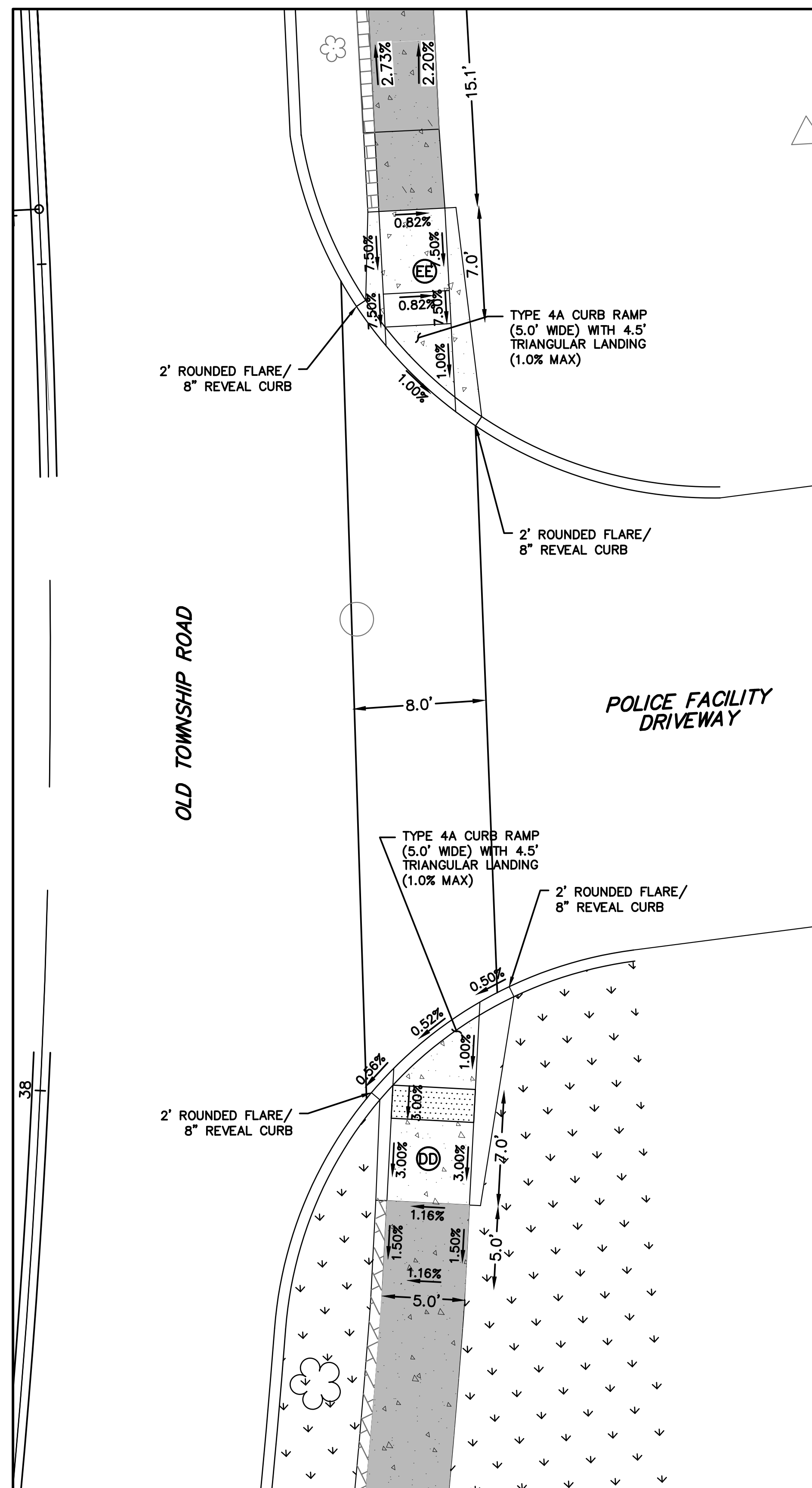
TOWNSHIP ROAD T-605 AND NORTHAMPTON TOWNSHIP POLICE DEPARTMENT DRIVEWAY

NOTES:

1. THE LIMITS OF ALL SIDEWALK TRANSITION AREAS SHOULD MATCH THE EXISTING SIDEWALK ELEVATION. REPLACE SIDEWALK TO THE NEAREST SIDEWALK JOINT.
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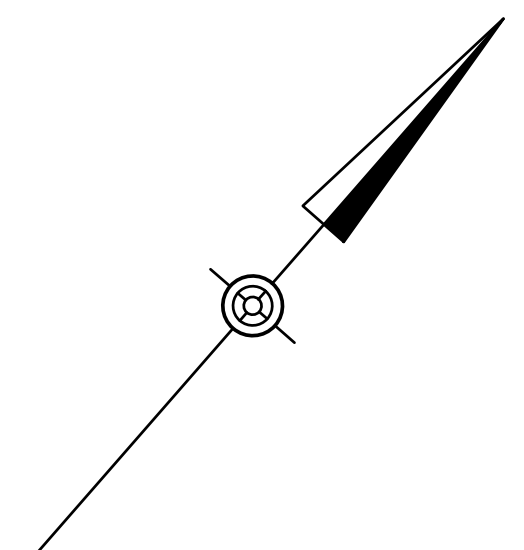
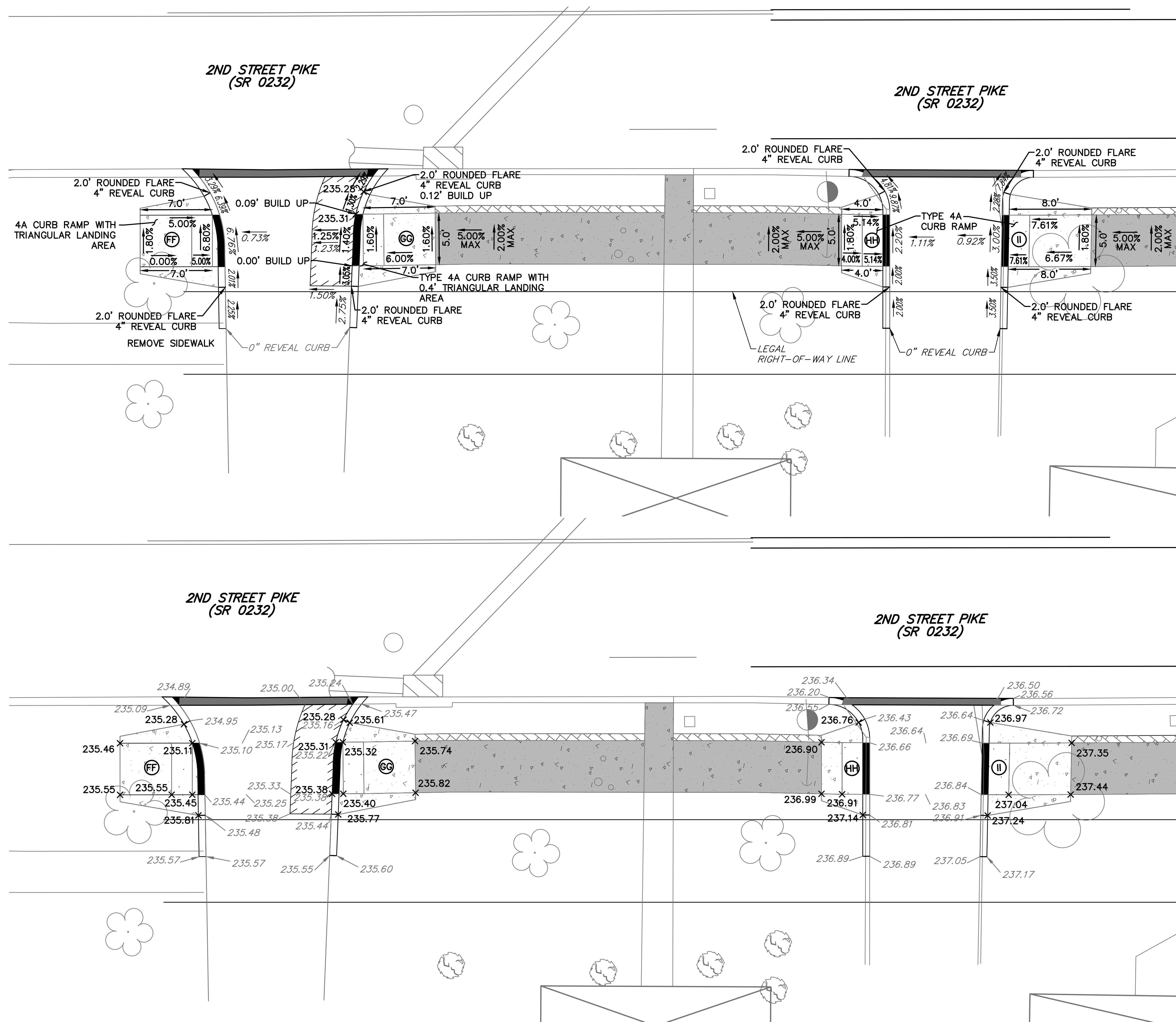
LEGEND

	EXISTING JUNCTION BOX		PROPOSED ELEVATION
	EXISTING WATER VALVE		TOP OF nTH STEP, PROPOSED ELEVATION
	EXISTING GAS VALVE		
	EXISTING MANHOLE		EXISTING ELEVATION
	EXISTING FIRE HYDRANT		
	EXISTING INLET GRATE		CONCRETE SIDEWALK/ TRANSITION AREA
	EXISTING CITY INLET		PAVEMENT ADJUSTMENT
	EXISTING UTILITY/CATENARY POLE		DETECTABLE WARNING SURFACE
	EXISTING TRAFFIC SIGNAL		CONCRETE CURB RAMP
	SURVEY BENCHMARK LOCATION		GRASS SEEDING AND SOIL SUPPLEMENTS
	TRAFFIC SIGNAL PUSHBUTTON		PROPOSED STEP
	TRAFFIC SIGNAL PEDESTAL		
	TRAFFIC SIGNAL SUPPORT, C-POST		
	3" CONDUIT PUSHBUTTON SUPPORT		
	CURB RAMP IDENTIFIER		



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	89 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

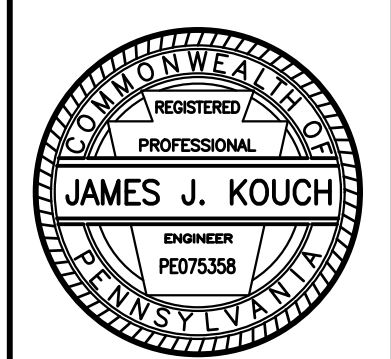
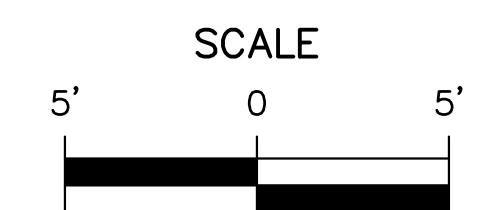
RAMP CONSTRUCTION PLAN
SECOND STREET PIKE SR 0232
ADAMOW DRIVEWAY



- NOTES:**
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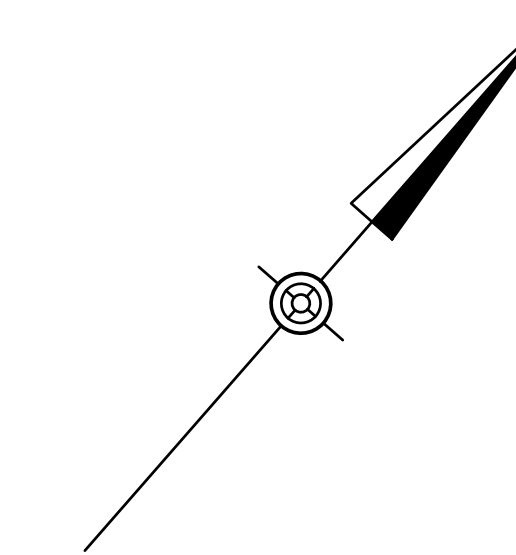
LEGEND

	EXISTING JUNCTION BOX	x 550.00	PROPOSED ELEVATION
	EXISTING WATER VALVE	x TSn 550.00	TOP OF nTH STEP, PROPOSED ELEVATION
	EXISTING GAS VALVE		
	EXISTING MANHOLE	x 550.00	EXISTING ELEVATION
	EXISTING FIRE HYDRANT		
	EXISTING INLET GRATE		
	EXISTING CITY INLET		
	EXISTING UTILITY/CATENARY POLE		
	EXISTING TRAFFIC SIGNAL		
	SURVEY BENCHMARK LOCATION		
	TRAFFIC SIGNAL PUSHBUTTON		
	TRAFFIC SIGNAL PEDESTAL		
	TRAFFIC SIGNAL SUPPORT, C-POST		
	3" CONDUIT PUSHBUTTON SUPPORT		
	CURB RAMP IDENTIFIER		
	CONCRETE SIDEWALK/TRANSITION AREA		
	PAVEMENT ADJUSTMENT		
	DETECTABLE WARNING SURFACE		
	CONCRETE CURB RAMP		
	GRASS SEEDING AND SOIL SUPPLEMENTS		
	PROPOSED STEP		



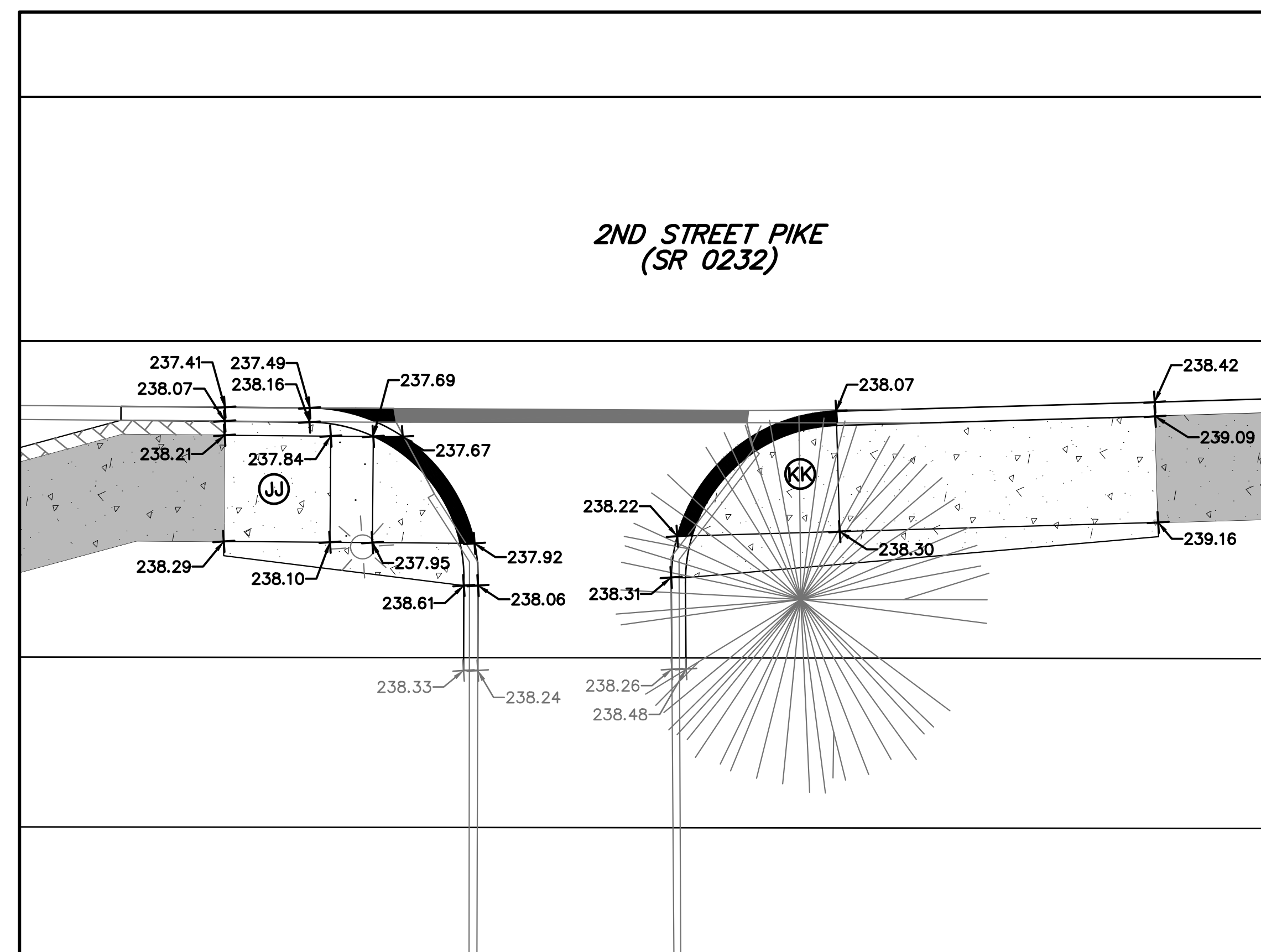
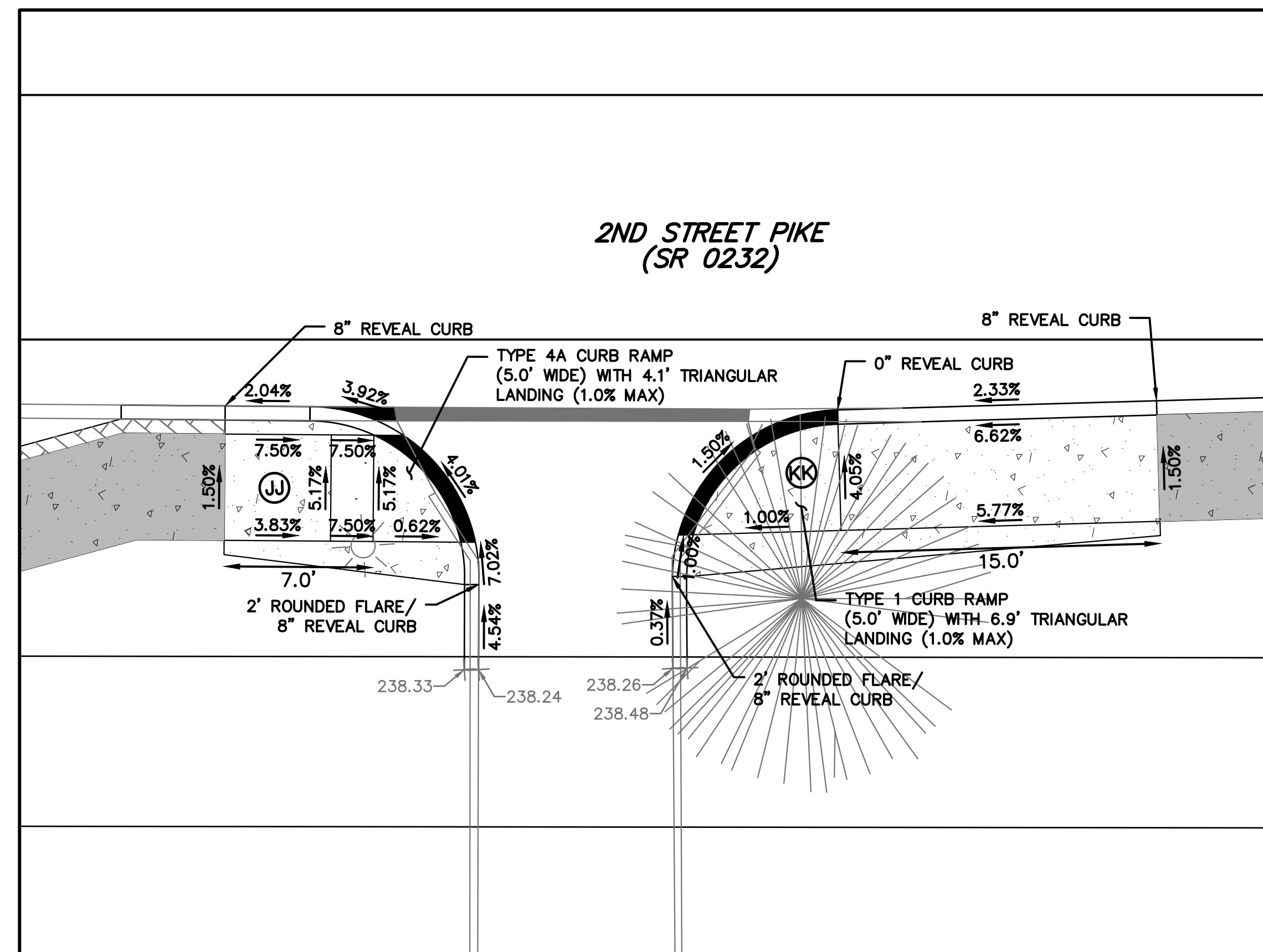
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	90 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

**SECOND STREET PIKE (SR 0232)
SMITH DRIVEWAYS**



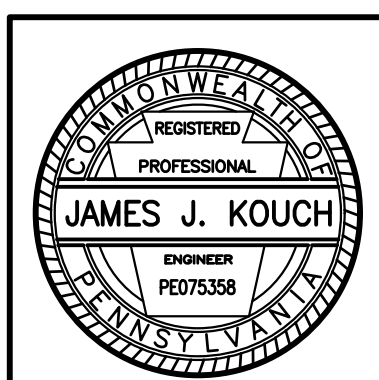
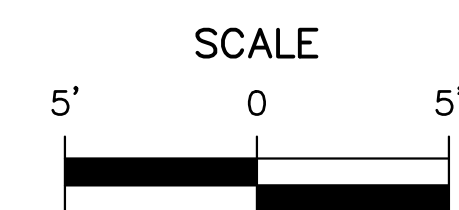
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LEGEND

	EXISTING JUNCTION BOX	X 550.00	PROPOSED ELEVATION
	EXISTING WATER VALVE	X TSn 550.00	TOP OF nTH STEP, PROPOSED ELEVATION
	EXISTING GAS VALVE		
	EXISTING MANHOLE	X 550.00	EXISTING ELEVATION
	EXISTING FIRE HYDRANT		
	EXISTING INLET GRATE		CONCRETE SIDEWALK/ TRANSITION AREA
	EXISTING CITY INLET		PAVEMENT ADJUSTMENT
	EXISTING UTILITY/CATENARY POLE		
	EXISTING TRAFFIC SIGNAL		DETECTABLE WARNING SURFACE
	SURVEY BENCHMARK LOCATION		
	TRAFFIC SIGNAL PUSHBUTTON		CONCRETE CURB RAMP
	TRAFFIC SIGNAL PEDESTAL		
	TRAFFIC SIGNAL SUPPORT, C-POST		GRASS SEEDING AND SOIL SUPPLEMENTS
	3" CONDUIT PUSHBUTTON SUPPORT		
	CURB RAMP IDENTIFIER		PROPOSED STEP



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	91 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
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4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

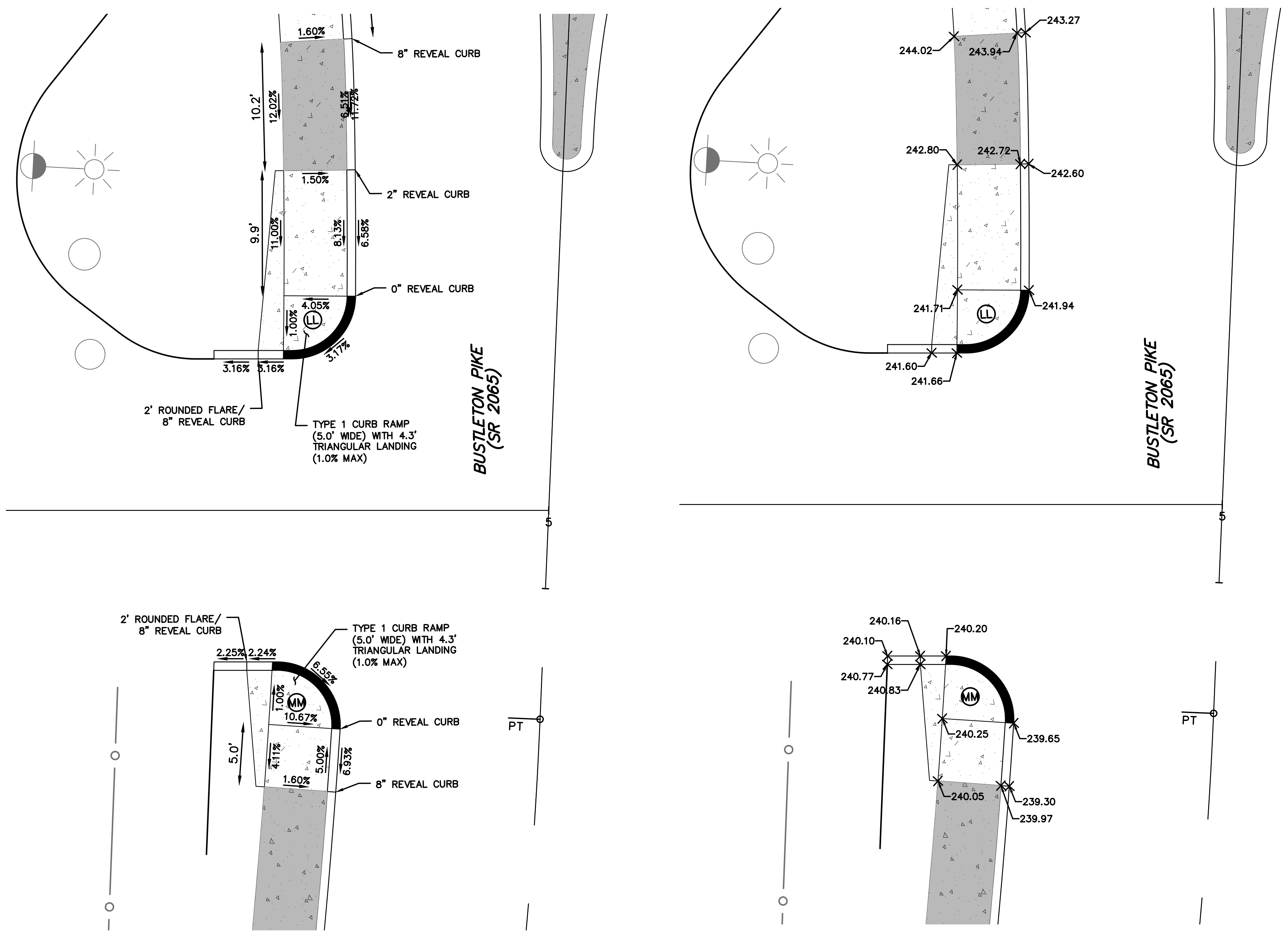
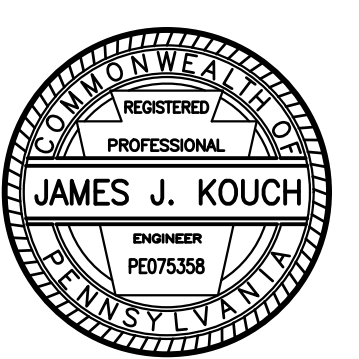
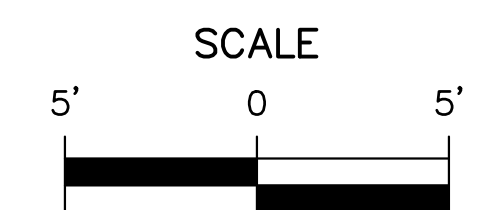
**SECOND STREET PIKE (SR 0232)
SMITH DRIVEWAYS**

NOTES:

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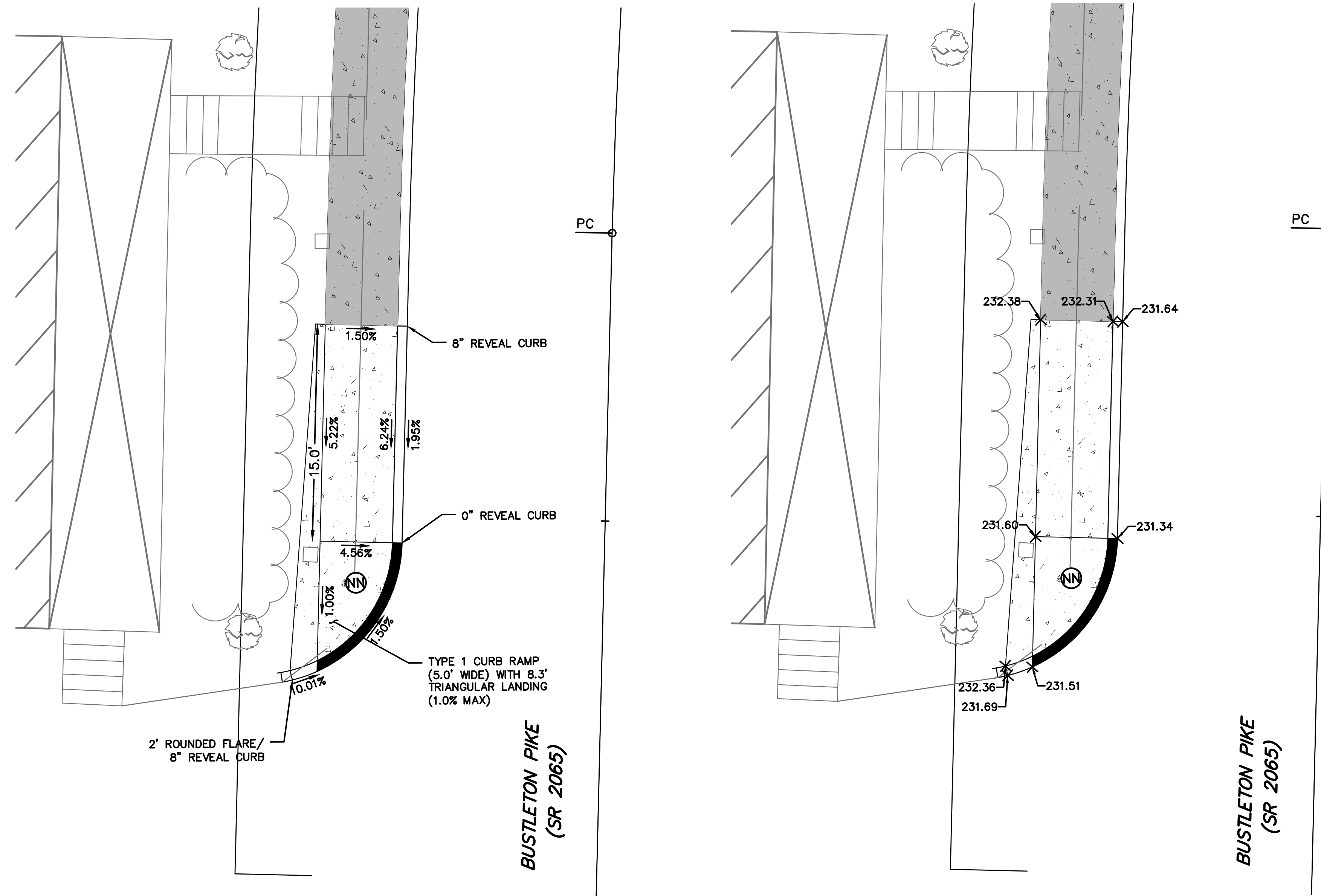
LEGEND

	EXISTING JUNCTION BOX	X 550.00	PROPOSED ELEVATION
	EXISTING WATER VALVE	X TSn 550.00	TOP OF nTH STEP, PROPOSED ELEVATION
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	EXISTING MANHOLE	X 550.00	EXISTING ELEVATION
	EXISTING FIRE HYDRANT		
	EXISTING INLET GRATE		CONCRETE SIDEWALK/ TRANSITION AREA
	EXISTING CITY INLET		PAVEMENT ADJUSTMENT
	EXISTING UTILITY/CATENARY POLE		DETECTABLE WARNING SURFACE
	EXISTING TRAFFIC SIGNAL		CONCRETE CURB RAMP
	SURVEY BENCHMARK LOCATION		GRASS SEEDING AND SOIL SUPPLEMENTS
	TRAFFIC SIGNAL PUSHBUTTON		PROPOSED STEP
	TRAFFIC SIGNAL PEDESTAL		
	TRAFFIC SIGNAL SUPPORT, C-POST		
	3" CONDUIT PUSHBUTTON SUPPORT		
	CURB RAMP IDENTIFIER		



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	92 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
1	REVISIONS PER PENNDOT COMMENTS	10/31/18	MEE	
2	REVISIONS PER PENNDOT COMMENTS	12/12/19	MEE	
3	REVISIONS PER PENNDOT COMMENTS	4/23/20	MEE	
4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

**SECOND STREET PIKE (SR 0232)
SMITH DRIVEWAYS**

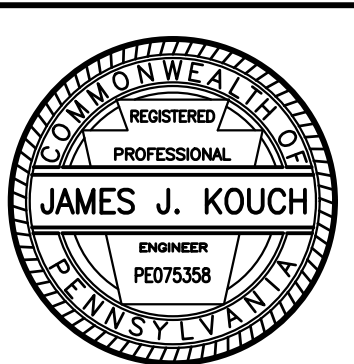
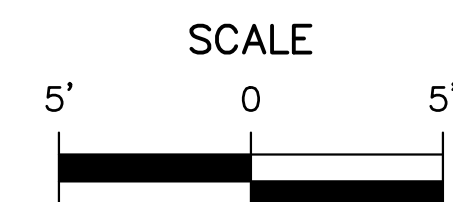


NOTES:

1. THE LIMITS OF ALL SIDEWALK TRANSITION AREAS SHOULD MATCH THE EXISTING SIDEWALK ELEVATION. REPLACE SIDEWALK TO THE NEAREST SIDEWALK JOINT.
2. WHEN SIDEWALK IS BEING LOWERED, THE GRASS AREA BEHIND THE SIDEWALK SHOULD BE REGRADED WITH A 3:1 MAXIMUM SLOPE.
3. IF IT IS DETERMINED THAT THE PROPOSED SIDEWALK CAN BE LOWERED WITH GRADING OR EXTENDED DIRECTLY TO THE EXPOSED BUILDING/WALL FACADE THE CONTRACTOR IS DIRECTED TO COORDINATE THE REMOVAL OF THE CHEEK WALL FROM THE FINAL CONSTRUCTION WITH THE RESIDENT ENGINEER OR HIS/HER DESIGNEE.
4. RESET ALL UTILITY VALVES, COVERS AND MANHOLES TO GRADE, AS NECESSARY.
5. IN THE EVENT THAT THERE ARE ANY DISCREPANCIES FOUND BETWEEN THE PROPOSED SLOPES AND PROPOSED SPOT ELEVATIONS/ DISTANCES, THE CONTRACTOR MUST CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

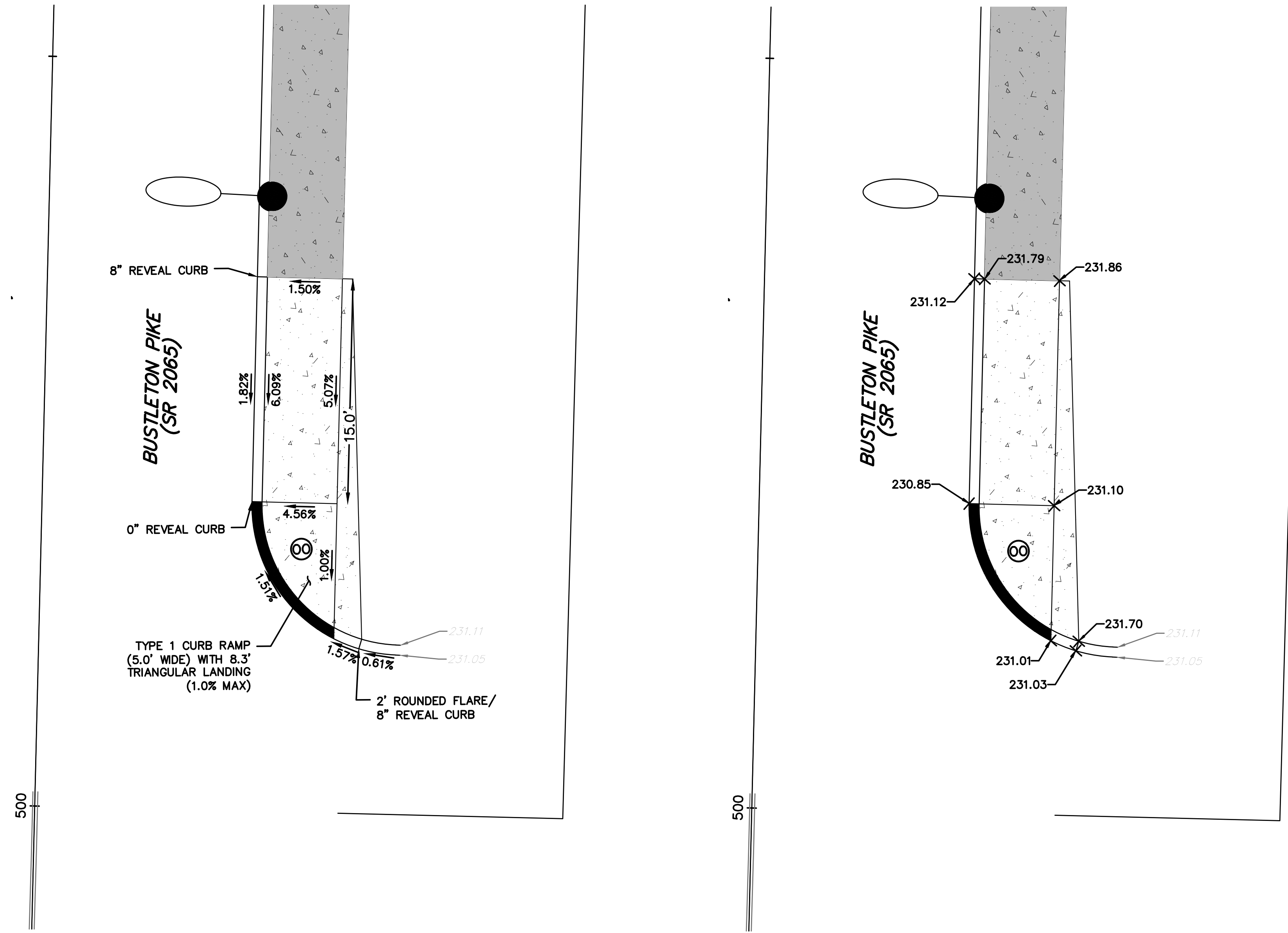
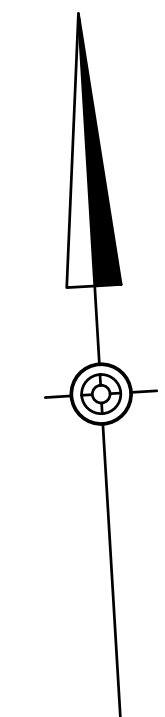
LEGEND

	EXISTING JUNCTION BOX	X 550.00	PROPOSED ELEVATION
	EXISTING WATER VALVE	X TSn 550.00	TOP OF nTH STEP, PROPOSED ELEVATION
	EXISTING GAS VALVE		
	EXISTING MANHOLE	X 550.00	EXISTING ELEVATION
	EXISTING FIRE HYDRANT		
	EXISTING INLET GRATE		CONCRETE SIDEWALK/ TRANSITION AREA
	EXISTING CITY INLET		PAVEMENT ADJUSTMENT
	EXISTING UTILITY/CATENARY POLE		DETECTABLE WARNING SURFACE
	EXISTING TRAFFIC SIGNAL		CONCRETE CURB RAMP
	SURVEY BENCHMARK LOCATION		GRASS SEEDING AND SOIL SUPPLEMENTS
	TRAFFIC SIGNAL PUSHBUTTON		PROPOSED STEP
	TRAFFIC SIGNAL PEDESTAL		
	TRAFFIC SIGNAL SUPPORT, C-POST		
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	CURB RAMP IDENTIFIER		



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	93 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
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4	REVISIONS PER PENNDOT COMMENTS	6/28/22	MEE	
5	REVISIONS PER PENNDOT COMMENTS	8/29/22	MEE	

**SECOND STREET PIKE (SR 0232)
SMITH DRIVEWAYS**

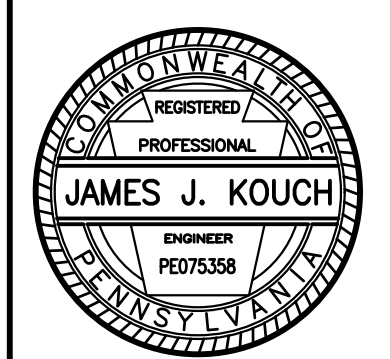
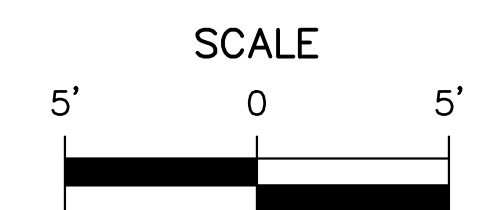


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LEGEND

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	EXISTING WATER VALVE	X TSn 550.00	TOP OF nTH STEP, PROPOSED ELEVATION
	EXISTING GAS VALVE		
	EXISTING MANHOLE	X 550.00	EXISTING ELEVATION
	EXISTING FIRE HYDRANT		
	EXISTING INLET GRATE		
	EXISTING CITY INLET		
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	TRAFFIC SIGNAL PUSHBUTTON		
	TRAFFIC SIGNAL PEDESTAL		
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	3" CONDUIT PUSHBUTTON SUPPORT		
	CURB RAMP IDENTIFIER		
	CONCRETE SIDEWALK/TRANSITION AREA		
	PAVEMENT ADJUSTMENT		
	DETECTABLE WARNING SURFACE		
	CONCRETE CURB RAMP		
	GRASS SEEDING AND SOIL SUPPLEMENTS		
	PROPOSED STEP		



425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA 19034
PH: (215) 283-9444
FAX: (215) 283-9447

DESIGN BY: KLY
DRAWN BY: KLY
CHECKED BY: BDD
JOB NO: 816506.2A
DWG: 506ADA01
DATE: 5/16/18

NORTHAMPTON TOWNSHIP
55 TOWNSHIP RD
RICHBORO, PA 18954
(215) 357-6800

RICHBORO ROUNDABOUT
2ND STREET PIKE (SR 0232) & BUSTLETON PIKE (SR 2065)
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

ADA CURB RAMP PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	2065	-	94 OF 94
NORTHAMPTON TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	
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SECOND STREET PIKE (SR 0232) SMITH DRIVEWAYS

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	EXISTING GAS VALVE		
	EXISTING MANHOLE	X 550.00	EXISTING ELEVATION
	EXISTING FIRE HYDRANT		
	EXISTING INLET GRATE		CONCRETE SIDEWALK/ TRANSITION AREA
	EXISTING CITY INLET		PAVEMENT ADJUSTMENT
	EXISTING UTILITY/CATENARY POLE		DETECTABLE WARNING SURFACE
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