

*	DISTRICT	COUNTY	TOWNSHIP	BOROUGH	ROUTE	SECTION	TOTAL SHEETS
	6	CHESTER	EAST COVENTRY	—	0724	—	8

# HIGHWAY OCCUPANCY PERMIT PLANS

## EAST COVENTRY TOWNSHIP

### DRAWINGS FOR CONSTRUCTION FOR ROADWAY IMPROVEMENTS ON S.R. 0724 SCHUYLKILL ROAD

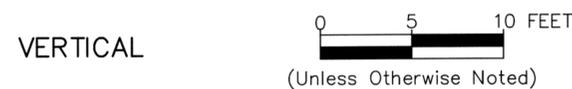
IN CHESTER COUNTY

FROM STA 18+50.00 TO STA 22+50.00 LENGTH 0.0758 MI  
FROM SEG 0152 OFFSET 1563 TO SEG 0152 OFFSET 1963

DRAWING LIST	
SHEET NO.	DRAWING TITLE
1	COVER SHEET
2	GENERAL NOTES
3	TYPICAL SECTIONS AND SPECIAL DETAILS
4	ROADWAY IMPROVEMENT PLAN
5-6	INTERSECTION GRADING PLAN
7	SIGNING AND PAVEMENT MARKING PLAN
8	MAINTENANCE AND PROTECTION OF TRAFFIC

ALSO INCLUDED:	TOTAL SHEETS
TRUCK TURNING TEMPLATES	1
TRAFFIC SIGNAL PERMIT PLANS	2

#### SCALE



#### DESIGN DESIGNATION

HIGHWAY CLASSIFICATION	MINOR ARTERIAL
DESIGN SPEED	55 MPH
POSTED SPEED	45 MPH

#### TRAFFIC DATA

CURRENT ADT	13,679
DESIGN YEAR ADT	13,679
DHV	1232
D	63%
T	6%

#### ENGINEER:

McMAHON ASSOCIATES, INC.  
840 SPRINGDALE DRIVE  
EXTON, PA 19341  
(610) 594-9995 (610)594-9565 (FAX)  
E-MAIL: sgiampaolo@mcmahonassociates.com

#### APPLICANT:

EAST COVENTRY TOWNSHIP  
855 ELLIS WOODS ROAD  
POTTSTOWN, PA 19465  
(610) 495-5443

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

20100711408

## NOT FOR CONSTRUCTION

UNDER PENNDOT REVIEW  
PLANS SUBJECT TO CHANGE  
DATE: 7/17/15

EPS APPLICATION #86284

DATE	DESCRIPTION	NO.
7/17/15	PENNDOT COMMENTS	2
5/24/11	PENNDOT COMMENTS	1
REVISIONS		



S. Giampaolo

DATE: 7-17-15



425 COMMERCE DR  
SUITE 200  
FT WASHINGTON, PA. 19034  
TELE: (215)-283-9444  
FAX: (215)-283-9447

840 SPRINGDALE DR  
EXTON, PA. 19341  
TELE: (610)-594-9995  
FAX: (610)-594-9565

3903 HARTZDALE DRIVE  
SUITE 301  
CAMP HILL, PA. 17011  
TELE: (717)-975-0295  
FAX: (717)-975-0294

DESIGN BY: JAC    JOB NO: 810065  
DRAWN BY: JAC    DWG: 065CVR01  
CHECKED BY: SCG    DATE: 7/1/10

EAST COVENTRY TOWNSHIP  
855 ELLIS WOODS ROAD  
POTTSTOWN, PA 19465  
(610) 495-5443

ROADWAY IMPROVEMENTS  
ON S.R. 0724 SCHUYLKILL ROAD  
EAST COVENTRY TOWNSHIP      CHESTER COUNTY

**UTILITY COMPANIES**

PENNSYLVANIA ONE CALL SYSTEM, INC.  
SERIAL NUMBER:  
20100711408

COLUMBIA GAS TRANSMISSION  
1470 POORHOUSE ROAD  
DOWNTOWN, PA 19335  
(610) 518-1908  
ATTN: MR. MARK SNIDER

COMCAST CABLE COMMUNICATIONS  
1004 CORNERSTONE BOULEVARD  
DOWNTOWN, PA 19335-5366  
(610) 466-1509  
ATTN: MR. LEE MCGARRITY

EAST COVENTRY TOWNSHIP  
855 ELLIS WOODS ROAD  
POTTSTOWN, PA 19465  
(610) 495-5443  
ATTN: MR. BERNARD RODGERS

NEON COMMUNICATIONS  
187 AGAPE STREET  
EPHRATA, PA 17522  
(617) 285-9787  
ATTN: MR. STEVE LEE

PECO ENERGY COMPANY  
1050 W. SWEDSFORD ROAD  
BERWYN, PA 19312  
(610) 725-7129  
ATTN: MR. BILL HENSIL

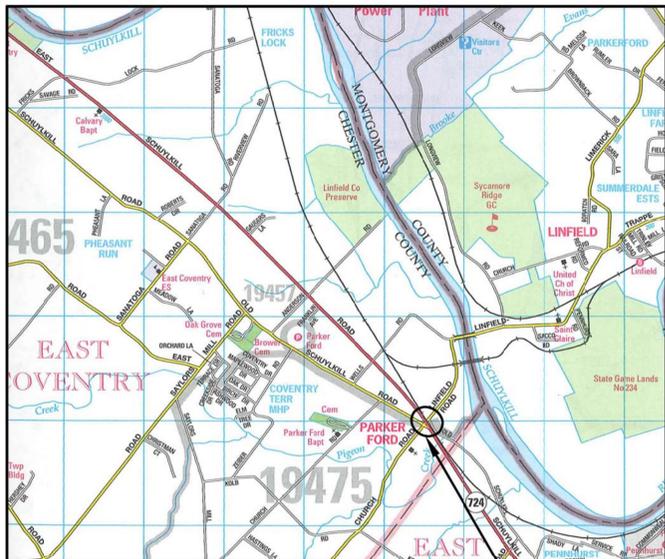
PENNSYLVANIA AMERICAN WATER  
100 CHESHIRE COURT, SUITE 104  
COATESVILLE, PA 19320  
(610) 384-1776 EXT. 101  
ATTN: MR. STEPHEN GIBBS

SUNOCO PIPELINE, LP  
525 FRITZTOWN ROAD  
SINKING SPRING, PA 19608  
(610) 670-3252  
ATTN: MR. WALTER SKORUPSKY

UGI UTILITIES INC.  
225 MORGANTOWN ROAD  
READING, PA 19611  
(610) 7369-5571  
ATTN: MR. KURT ZIELASKOWSKI

VERIZON PENNSYLVANIA, INC.  
180 SHEREE BLVD, SUITE 2100  
EXTON, PA 19341  
(610) 280-2152  
ATTN: MR. NORM PARISH

**LOCATION MAP**



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PROJECT LOCATION

**SYMBOL LEGEND**

- C.O. EX. CLEAN OUT
- W.V. EX. WATER VALVE
- G.V. EX. GAS VALVE
- M.H. EX. MANHOLE TO BE RESET
- M.H. PROPOSED MANHOLE
- M.H. EXISTING MANHOLE
- F.H. EXISTING FIRE HYDRANT
- F.H. RELOCATED FIRE HYDRANT
- T — EX. TELEPHONE CONDUIT
- G — EX. GAS MAIN
- S — EX. SANITARY SEWER MAIN
- W — EX. WATER MAIN
- EX. PECO OR BELL TELEPHONE POLE
- PROP. OR RELOCATED UTILITY POLE
- ▲ PROPOSED SIGN
- ▲ EXISTING SIGN
- G — EXISTING GUIDERAIL
- G — PROPOSED GUIDERAIL
- M — PROPOSED MAST ARM
- ▨ EXISTING INLET
- PROP. STORM INLET

DETAILS OTHER THAN THOSE INDICATED  
ARE ON THE FOLLOWING STANDARD DETAILS  
FROM PENNDOT PUBLICATION 72M:

STANDARD DRAWING	DRAWING DATE
RC-10M	JUNE 1, 2010
RC-25M	JUNE 1, 2010
RC-28M	JUNE 10, 2013
RC-39M	JUNE 1, 2010
RC-45M	JUNE 1, 2010
RC-67M	JUNE 10, 2013
RC-70M	JUNE 1, 2010
RC-72M	JUNE 1, 2010
TC-8600	JUNE 13, 2013
TC-8702B	JUNE 13, 2013

THE PERMITTEE IS REQUIRED TO PROVIDE THE  
CONTRACTOR WITH COPIES OF THE MOST  
CURRENT APPLICABLE RC DRAWINGS FROM  
PENNDOT PUBLICATION 72M.

**GENERAL NOTES**

- ALL CONTRACTORS WORKING ON THIS PROJECT SHALL COMPLY WITH REQUIREMENTS OF P.L. 852, NO. 287, DECEMBER 1974 AS AMENDED ON OCTOBER 9, 2008 BY PENNSYLVANIA ACT 121 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 (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 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 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.
- CONTRACTOR WILL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY OR TO REQUEST THE RELOCATION OF THE EXISTING FACILITY BY THE UTILITY. NOTIFY THE ENGINEER OF WORK IF ANY DISCREPANCIES IN UTILITY LINE LOCATIONS ARE FOUND. THE COSTS FOR THE EXPLORATION WORK SHALL BE INCIDENTAL TO THE ITEMS INCLUDED IN THE CONTRACTOR'S PROPOSAL.
- CONTRACTOR IS REQUIRED 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 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 MUST COMPLY WITH ALL U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS AS REVISED 2002, (OSHA 2226) ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH PENNDOT SPECIFICATION PUBLICATION 408/2011, OR MOST RECENT EDITION AND SHALL MEET OR EXCEED THE LOCAL MUNICIPALITY'S STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- THE CONTRACTOR MUST CONTACT THE TOWNSHIP STAFF AND PUBLIC SAFETY DEPARTMENT ALONG WITH ANY AFFECTED PROPERTY OWNERS TO REVIEW AND APPROVE THE FOLLOWING TIME SCHEDULE PRIOR TO SCHEDULING ANY WORK.
- S.R. 0724 WAS PREVIOUSLY KNOW AS L.R. 0201
- ALL EXISTING PAVEMENT MARKINGS WHICH ARE NO LONGER APPROPRIATE SHALL BE ERADICATED BY THE PERMITTEE. THE PERMITTEE SHALL PLACE ALL REQUIRED NEW PAVEMENT MARKINGS.
- 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 SHALL BE DELIVERED TO A LAWFUL SITE LOCATION BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- BARRICADES, LIGHTING DEVICES, AND OTHER TRAFFIC CONTROL MEASURES SHALL BE PLACED IN ACCORDANCE WITH AND SHALL CONFORM TO PENNDOT SPECIFICATIONS PUBLICATION 408/2011, OR MOST RECENT EDITION, M.U.T.C.D. STANDARDS, AND PENNDOT PUBLICATION 213, TITLE 67, CHAPTER 212 "TEMPORARY TRAFFIC CONTROL GUIDELINES", JUNE 2014 OR MOST RECENT EDITION.
- ALL WORK PERFORMED WITHIN THE STATE LEGAL RIGHT-OF-WAY MUST BE IN ACCORDANCE WITH THE PLANS,
- PENNDOT PUBLICATION 408/2011, OR MOST RECENT EDITION AND "STANDARDS FOR ROADWAY CONSTRUCTION", RC-1 TO 100, PUB 72M, DATED JUNE 2012, AS AMENDED.

**GENERAL NOTES CONT'D**

- ALL EXISTING SIGNS THAT ARE NO LONGER APPROPRIATE SHALL BE RETURNED TO THE MUNICIPALITY OR TO THE LOCAL PENNDOT MAINTENANCE DISTRICT OFFICE BY THE CONTRACTOR.
- A PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN PENNDOT, THE APPLICANT, THE CONTRACTOR, THE ENGINEER, AND ALL UTILITY COMPANIES TO CLARIFY AND COORDINATE ALL CONSTRUCTION DETAILS.
- IF IT IS NECESSARY TO RELOCATE OR CONNECT INTO EXISTING UTILITIES WITHIN PENNDOT AND/OR TOWNSHIP 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 TOWNSHIP.
- ALL EXISTING SIGNS AND UTILITY POLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL BE RELOCATED OUTSIDE OF THE PAVED AREAS AND SHOULDERS IN ACCORDANCE WITH UTILITY COMPANY'S REQUIREMENTS. THE RESPONSIBILITY FOR ENSURING THAT ALL UTILITY POLES ARE RELOCATED OUTSIDE OF THE AREAS AND SHOULDERS BEFORE THE START OF ANY PAVING OPERATIONS SHALL BE THAT OF THE PERMITTEE.
- ALL EXISTING VEGETATION MUST BE CUT SO THAT IT IS AT LEAST 5' BEHIND THE FACE OF CURB AND 20' ABOVE THE PAVEMENT.
- THE EXISTING TOPOGRAPHIC INFORMATION AND BASE SURVEY INFORMATION WAS PROVIDED BY HOWELL KLINE SURVEYING, LLC DATED MARCH 15, 2010. 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.
- THE PERMITTEE SHALL INSURE 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.
- 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 WORK ASSOCIATED WITH UNDERCUTTING AND/OR SUBGRADE STABILIZATION INCLUDES CLASS 1A EXCAVATION. PLACEMENT OF GEOTEXTILE, CLASS 4, AND MODIFIED STONE (ASSHTO 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.
- THE LEGAL RIGHT-OF-WAY FOR SR 0724 IS BASED ON THE COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF HIGHWAY DRAWINGS FOR CONSTRUCTION AND CONDEMNATION OF RIGHT OF WAY, ROUTE NO. 201, SECTION NO. 3 DATED JULY 28, 1947.
- 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.
- SAWCUT LINE LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DEEMED NECESSARY BY A PENNDOT REPRESENTATIVE.
- ALL UTILITY RELOCATION PERMITS TAKE PRECEDENCE OVER THE UTILITY RELOCATION POSITIONS SHOWN ON THE HOP PLANS. FOR ANY RELOCATED UTILITIES A SEPARATE HIGHWAY OCCUPANCY PERMIT APPLICATION WILL BE SUBMITTED BY THE RESPECTIVE UTILITY COMPANY.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ANY DEBRIS AND FLUSH OUT ALL EXISTING AND PROPOSED STORM DRAINAGE FACILITIES IN ACCORDANCE WITH PUB. 408, SECTION 601.3 WITHIN THE PROJECT LIMITS, AT THE COMPLETION OF CONSTRUCTION.
- 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.
- IF THE PROPOSED IMPROVEMENTS REQUIRE THE RELOCATION OF PENNDOT FIBER OPTIC CABLE(S), THE PERMITTEE IS RESPONSIBLE FOR THE RELOCATION OF THE FIBER AND THE COSTS ASSOCIATED WITH THE RELOCATION.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	CHESTER	0724	-	2 OF 8

**EAST COVENTRY**

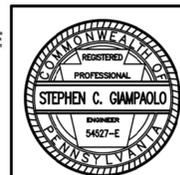
REVISION NUMBER	REVISIONS	DATE	BY
1	PENNDOT COMMENTS	05/24/11	JAC
2	PENNDOT COMMENTS	7/17/15	DHW

**GENERAL NOTES CONT'D**

- IT IS THE RESPONSIBILITY OF THE APPLICANT TO NOTIFY THE AFFECTED PROPERTY OWNERS OF THE PROPOSED CONSTRUCTION AND THE MODIFICATIONS ALONG THEIR PROPERTY FRONTAGE AND AT THEIR DRIVEWAY WITHIN 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.
- 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 35, BULLETIN 15.
- 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. THE COST OF THIS WORK SHALL BE INCLUDED IN VARIOUS ITEMS IN THE HIGHWAY CONSTRUCTION CONTRACT.
- THE POSTED SPEED LIMIT FOR S.R. 0724 IS 45 MPH WITHIN THE LIMITS OF WORK. THE POSTED SPEED LIMIT FOR S.R. 1035 IS 35 MPH.
- EXCESS EXCAVATED MATERIALS AND UNSUITABLE MATERIAL SHALL BE DELIVERED TO A LAWFUL SITE LOCATION IN ACCORDANCE WITH SECTION 203.3 OF PUBLICATION 408/2011, OR MOST RECENT EDITION.
- IT IS THE RESPONSIBILITY OF THE PERMITTEE TO MAKE ADJUSTMENTS TO THE AFFECTED DRIVEWAYS WITHIN THE LIMITS OF WORK. THE PERMITTEE SHALL INSURE 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.
- THE PAVEMENT MARKINGS AND SIGNING SHOWN ON THE TRAFFIC SIGNAL PERMIT PLAN TAKE PRECEDENCE OVER THE H.O.P. PLANS.
- ALL TRAFFIC CONTROL/ MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH APPLICABLE FIGURES FROM PENNDOT PUBLICATION 213, PENNSYLVANIA CODE 67, CHAPTER 212 "TEMPORARY TRAFFIC CONTROL GUIDELINES", JUNE 2014 OR MOST RECENT.
- ALL TRAFFIC LANE LINES (LONG & SHORT), PEDESTRIAN CROSSWALKS, GORE AREAS, MEDIAN AREAS, LEGENDS, AND STOP BARS SHALL BE COMPRISED OF HOT THERMOPLASTIC PAVEMENT MARKINGS IN BITUMINOUS PAVEMENT AREAS PER PENNDOT PUBLICATION 408/2011, SECTION 0960, OR MOST RECENT EDITION.
- 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 CHESTER COUNTY CONSERVATION DISTRICT.
- THE LOCAL MUNICIPALITY MUST BE NOTIFIED WHEN A SIGNALIZED INTERSECTION FALLS WITHIN THE WORK ZONE. A SIGNALIZED INTERSECTION MUST NOT BE FLAGGED WITHOUT THE MUNICIPALITY PLACING THE SIGNAL ON FLASH.

**NOT FOR CONSTRUCTION**

UNDER PENNDOT REVIEW  
PLANS SUBJECT TO CHANGE  
DATE: 7/17/15



425 COMMERCE DR  
SUITE 200  
FT WASHINGTON, PA. 19034  
TELE: (215)-283-9444  
FAX: (215)-283-9447

840 SPRINGDALE DR  
EXTON, PA. 19341  
TELE: (610)-594-9995  
FAX: (610)-594-9565

3903 HARTZDALE DRIVE  
SUITE 301  
CAMP HILL, PA. 17011  
TELE: (717)-975-0295  
FAX: (717)-975-0294

DESIGN BY: JAC    JOB NO: 810065  
DRAWN BY: JAC    DWG: 065GEN01  
CHECKED BY: SCG    DATE: 7/1/10

**EAST COVENTRY TOWNSHIP**

855 ELLIS WOODS ROAD  
POTTSTOWN, PA 19465  
(610) 495-5443

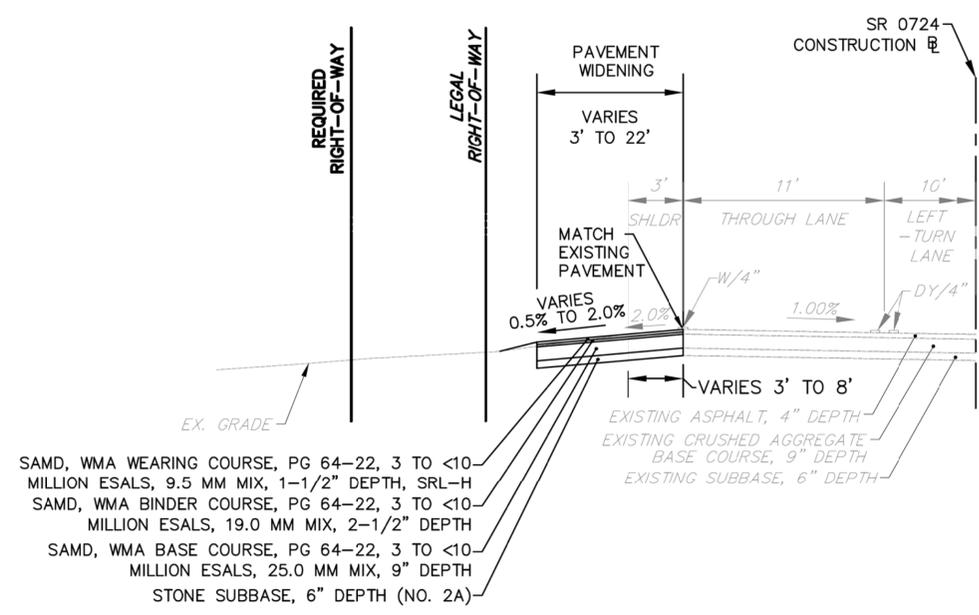
**ROADWAY IMPROVEMENTS  
ON S.R. 0724 SCHUYLKILL ROAD**  
EAST COVENTRY TOWNSHIP    CHESTER COUNTY

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	CHESTER	3 0724	-	3 OF 8
EAST COVENTRY				
REVISION NUMBER	REVISIONS	DATE	BY	
1	PENNDOT COMMENTS	05/24/11	JAC	
2	PENNDOT COMMENTS	7/17/15	DHW	

TYPICAL SECTIONS AND SPECIAL DETAILS

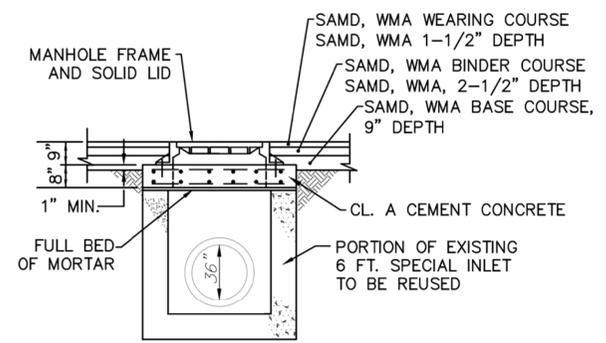
**NOT FOR CONSTRUCTION**

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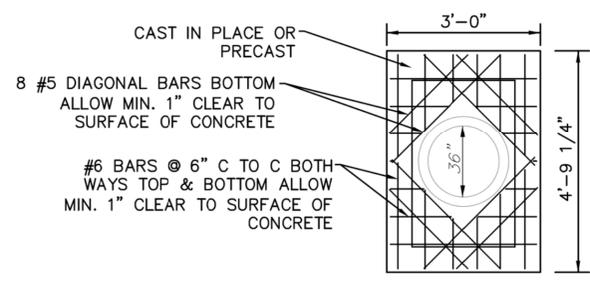


**S.R. 0724 TYPICAL SECTION**

STA. 19+24 LT. TO STA. 20+10 LT.  
N.T.S.



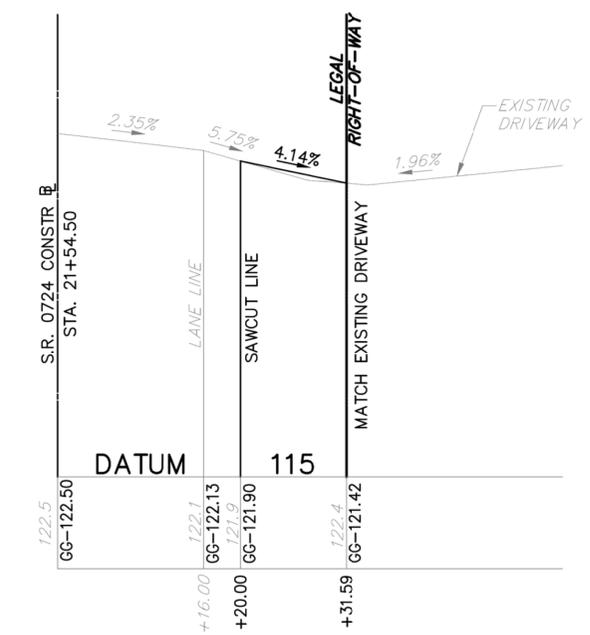
REMOVE PORTION OF EXISTING SPECIAL INLET TO ELEVATION REQUIRED TO INSTALL CONC. SLAB AND MANHOLE FRAME AND/OR COVER



NOTE:  
VERIFY DIMENSIONS OF EXISTING INLET PRIOR TO ORDERING MATERIAL.

**REBUILT INLET, CONVERTED TO MANHOLE**

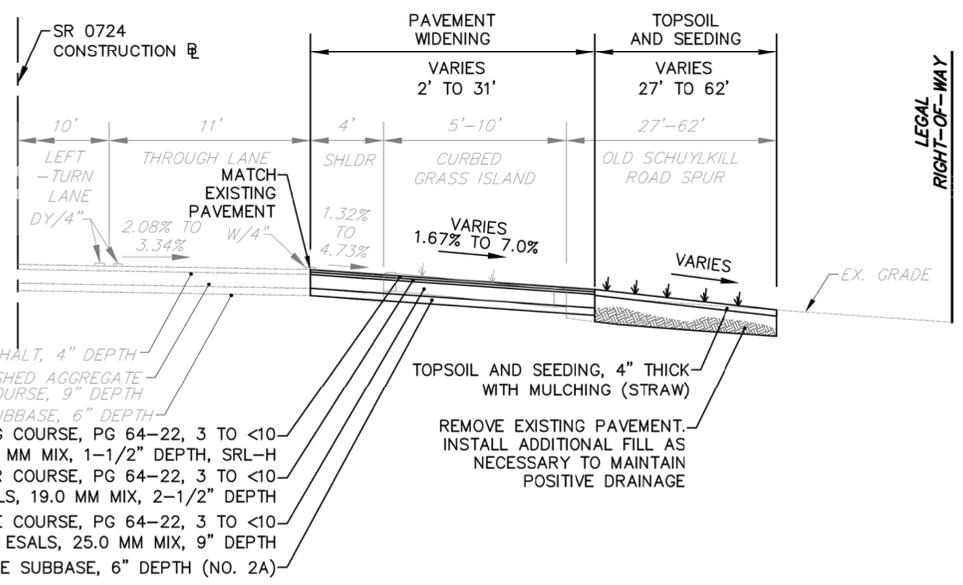
STA. 20+76.80 RT  
N.T.S.



**DRIVEWAY PROFILE**

STA. 21+54.50 RT

SCALE



**S.R. 0724 TYPICAL SECTION**

STA. 20+79 RT. TO STA. 21+18 RT.  
N.T.S.

**CONSTRUCTION NOTES:**

- SAWCUT AS SHOWN AND INSTALL THE FULL DEPTH PAVEMENT SECTION.
- NO UNSUITABLE MATERIAL IS TO BE USED IN ANY PORTION OF THE ROADWAY RECONSTRUCTION. REMOVE ANY SUBGRADE THAT CANNOT BE PROPERLY COMPACTED AND TREAT AS UNSUITABLE MATERIAL. UNDERCUTTING AND/OR SUBGRADE STABILIZATION MAY BE REQUIRED.
- THE PROPOSED PAVEMENT SECTION MUST BE AS INDICATED ON THE PLAN, OR MATCH THE EXISTING AS FOUND IN THE FIELD, WHICHEVER IS GREATER.



425 COMMERCE DR  
SUITE 200  
FT WASHINGTON, PA. 19034  
TELE: (215)-283-9444  
FAX: (215)-283-9447

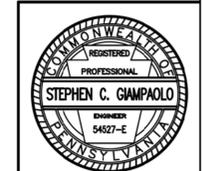
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DESIGN BY: JAC  
DR: JAC  
CHECKED BY: SCG  
JOB NO: 810065  
DWG:  
DATE: 7/1/10

EAST COVENTRY TOWNSHIP  
855 ELLIS WOODS ROAD  
POTTSTOWN, PA 19465  
(610) 495-5443

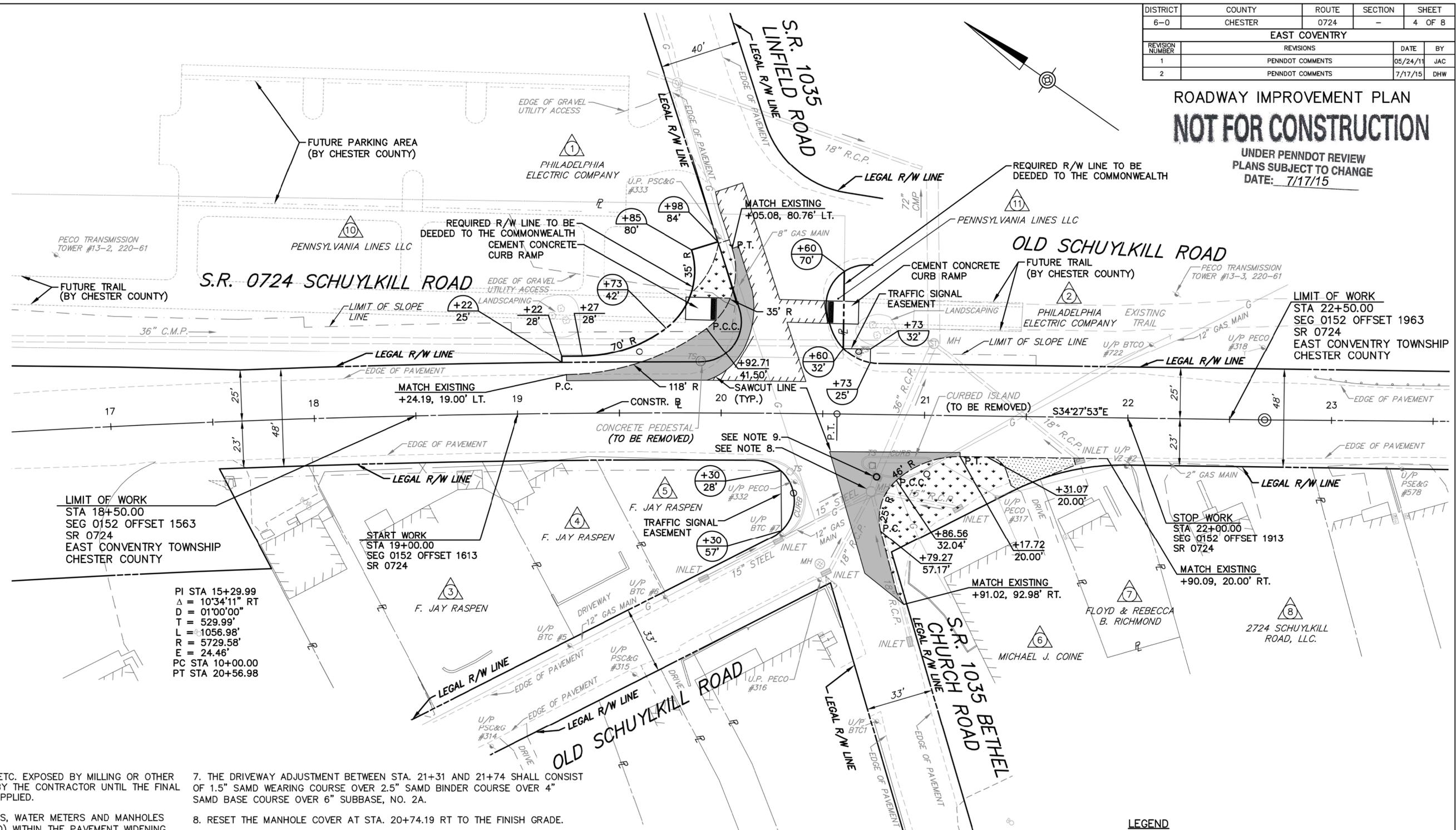
ROADWAY IMPROVEMENTS  
ON S.R. 0724 SCHUYLKILL ROAD  
EAST COVENTRY TOWNSHIP CHESTER COUNTY



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	CHESTER	0724	-	4 OF 8
EAST COVENTRY				
REVISION NUMBER	REVISIONS	DATE	BY	
1	PENNDOT COMMENTS	05/24/11	JAC	
2	PENNDOT COMMENTS	7/17/15	DHW	

# ROADWAY IMPROVEMENT PLAN NOT FOR CONSTRUCTION

UNDER PENNDOT REVIEW  
PLANS SUBJECT TO CHANGE  
DATE: 7/17/15



**LIMIT OF WORK**  
STA 18+50.00  
SEG 0152 OFFSET 1563  
SR 0724  
EAST COVENTRY TOWNSHIP  
CHESTER COUNTY

PI STA 15+29.99  
Δ = 10°34'11" RT  
D = 01'00'00"  
T = 529.99'  
L = 1056.98'  
R = 5729.58'  
E = 24.46'  
PC STA 10+00.00  
PT STA 20+56.98

**START WORK**  
STA 19+00.00  
SEG 0152 OFFSET 1613  
SR 0724

**STOP WORK**  
STA 22+00.00  
SEG 0152 OFFSET 1913  
SR 0724

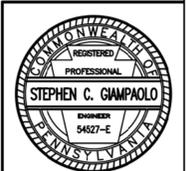
**MATCH EXISTING**  
+90.09, 20.00' RT.

**CONSTRUCTION NOTES**

- ALL MANHOLES, VALVE BOXES, ETC. EXPOSED BY MILLING OR OTHER OPERATIONS WILL BE PROTECTED BY THE CONTRACTOR UNTIL THE FINAL BITUMINOUS WEARING COURSE IS APPLIED.
- ALL GAS VALVES, WATER VALVES, WATER METERS AND MANHOLES (STORM, SANITARY AND BELL/PECO) WITHIN THE PAVEMENT WIDENING WILL BE RESET TO THE PROPOSED FINISHED GRADE.
- 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 SUBGRADE STABILIZATION MAY BE REQUIRED.
- EXCESS EXCAVATED MATERIALS AND UNSUITABLE MATERIAL SHALL BE DELIVERED TO A LAWFUL SITE LOCATION IN ACCORDANCE WITH SECTION 203.3 OF PUBLICATION 408/2011.
- THE DISTURBED GRASS/LANDSCAPE AREA BETWEEN STA. 19+24.19 AND STA. 21+90.09 (LT/RT) MUST BE RETURNED TO THE ORIGINAL CONDITION OR BETTER. INSTALL TOPSOIL & SEEDING, 4" THICK, WITH MULCHING (STRAW) TO THE SATISFACTION OF THE CHESTER COUNTY CONSERVATION DISTRICT. INSTALL ADDITIONAL FILL AS NECESSARY TO PROVIDE POSITIVE DRAINAGE TO THE INLET AT STA. 21+17.71.
- THE DRIVEWAY ADJUSTMENT BETWEEN STA. 21+31 AND 21+74 SHALL CONSIST OF 1.5" SAMD WEARING COURSE OVER 2.5" SAMD BINDER COURSE OVER 4" SAMD BASE COURSE OVER 6" SUBBASE, NO. 2A.
- RESET THE MANHOLE COVER AT STA. 20+74.19 RT TO THE FINISH GRADE.
- CONVERT THE INLET AT STA. 20+76.80 RT TO A MANHOLE. SEE DETAIL ON SHEET 3.
- THE SPEED LIMIT FOR S.R. 0724 SCHUYLKILL ROAD IS 45 MPH WITHIN THE LIMITS OF WORK.

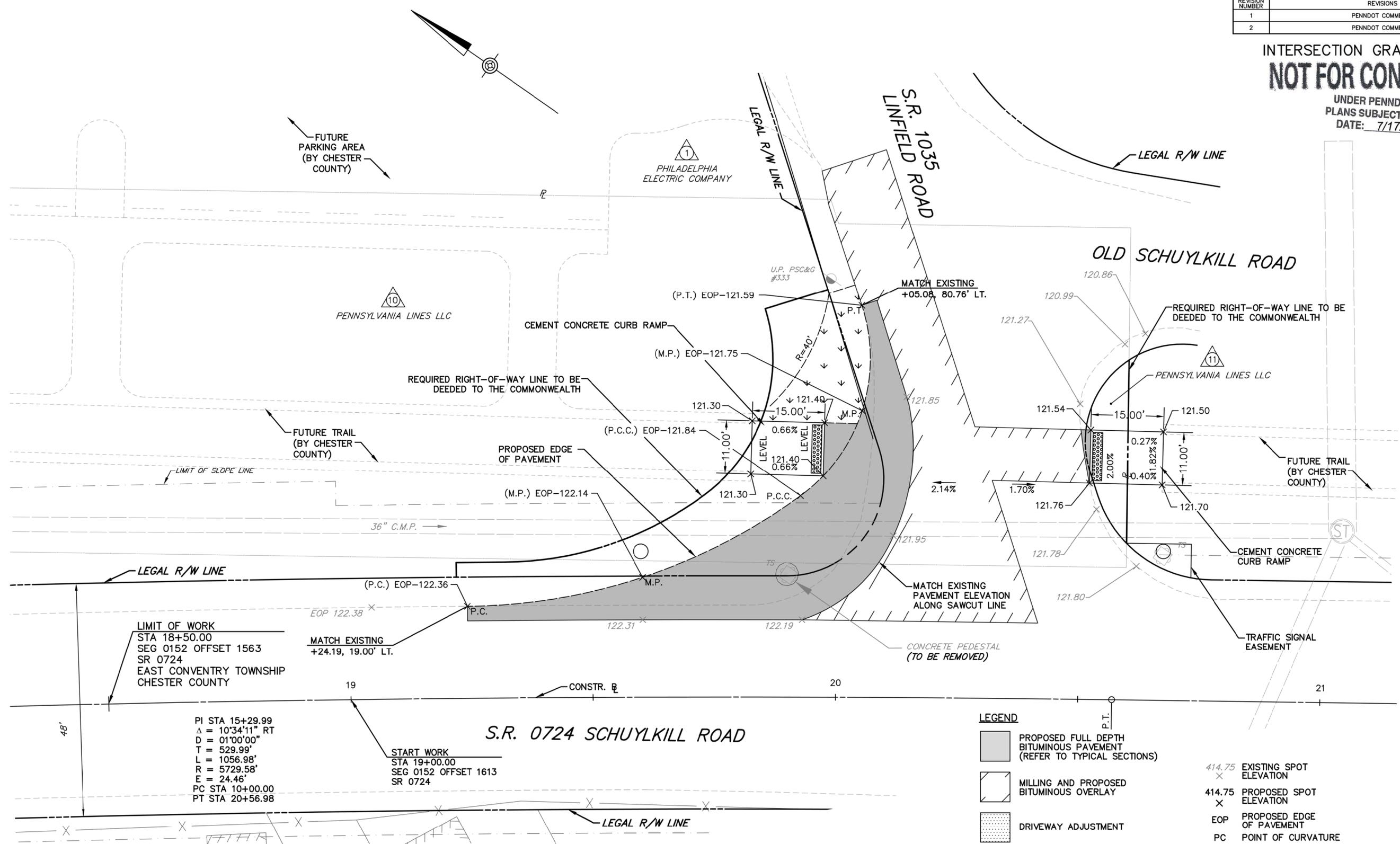
**LEGEND**

- PROPOSED FULL DEPTH BITUMINOUS PAVEMENT (REFER TO TYPICAL SECTIONS)
- REMOVE EXISTING PAVEMENT AND REPLACE WITH TOPSOIL AND SEEDING
- MILLING AND PROPOSED BITUMINOUS OVERLAY
- DRIVEWAY ADJUSTMENT



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	CHESTER	0724	-	5 OF 8
EAST COVENTRY				
REVISION NUMBER	REVISIONS	DATE	BY	
1	PENNDOT COMMENTS	05/24/11	JAC	
2	PENNDOT COMMENTS	7/17/15	DHW	

**INTERSECTION GRADING PLAN**  
**NOT FOR CONSTRUCTION**  
 UNDER PENNDOT REVIEW  
 PLANS SUBJECT TO CHANGE  
 DATE: 7/17/15



PI STA 15+29.99  
 $\Delta = 10^{\circ}34'11''$  RT  
 D = 01'00'00"  
 T = 529.99'  
 L = 1056.98'  
 R = 5729.58'  
 E = 24.46'  
 PC STA 10+00.00  
 PT STA 20+56.98

MATCH EXISTING  
 +24.19, 19.00' LT.

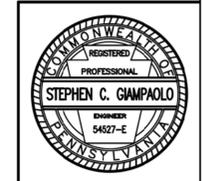
START WORK  
 STA 19+00.00  
 SEG 0152 OFFSET 1613  
 SR 0724

**LEGEND**

- PROPOSED FULL DEPTH BITUMINOUS PAVEMENT (REFER TO TYPICAL SECTIONS)
- MILLING AND PROPOSED BITUMINOUS OVERLAY
- DRIVEWAY ADJUSTMENT
- DETECTABLE WARNING SURFACE
- REMOVE EXISTING PAVEMENT AND REPLACE WITH TOPSOIL AND SEEDING
- 414.75 EXISTING SPOT ELEVATION
- 414.75 PROPOSED SPOT ELEVATION
- PROPOSED EDGE OF PAVEMENT
- POINT OF CURVATURE
- POINT OF CONTINUED CURVATURE
- POINT OF TANGENCY
- MIDPOINT OF RADIUS
- GRATE/RIM ELEVATION



**NOTES**  
 1. INSTALL DETECTABLE WARNING SURFACE (DWS) IN ACCORDANCE WITH RC-67. DWS TO BE 2' X 10'.

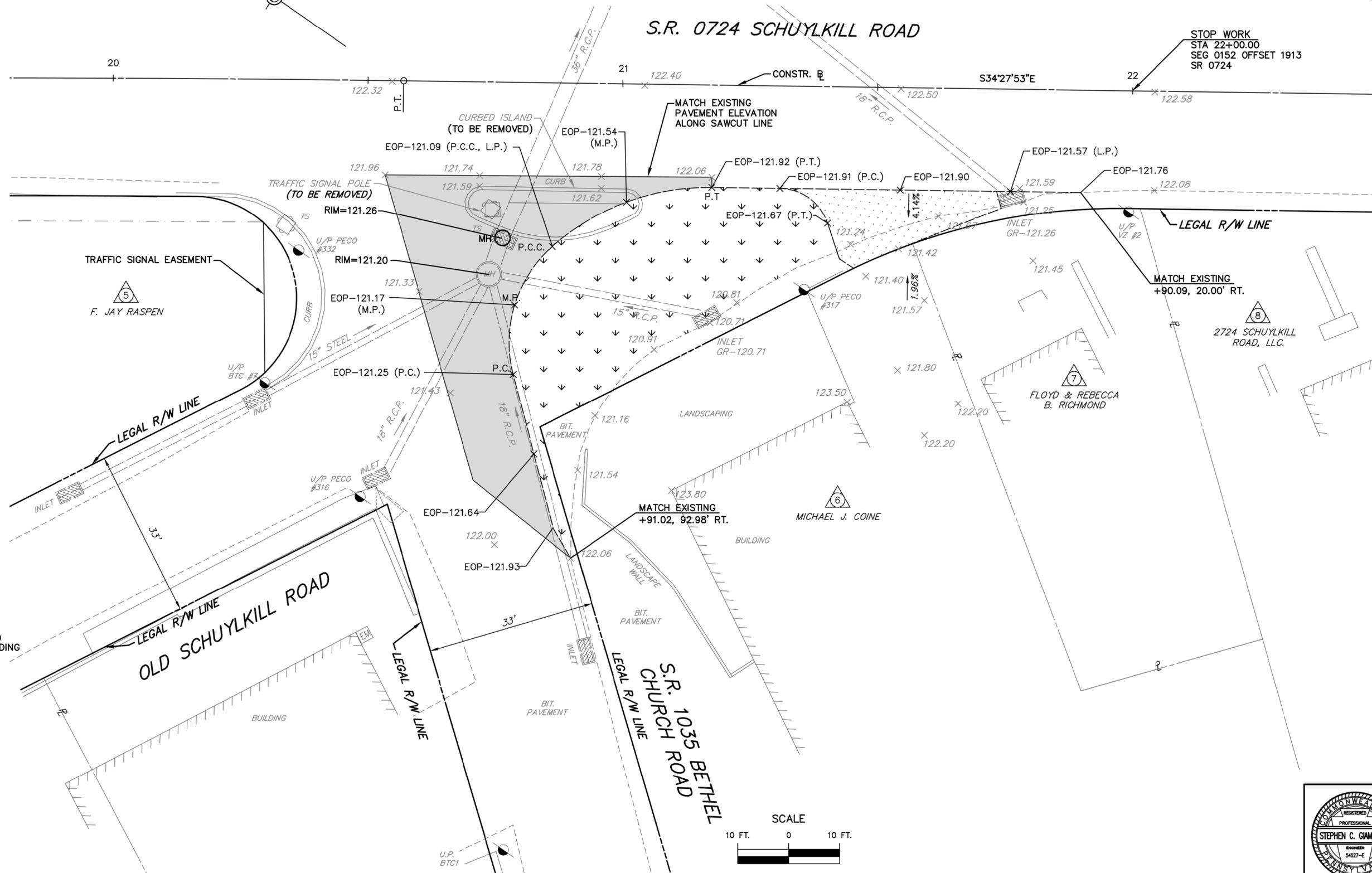


**NOT FOR CONSTRUCTION**

UNDER PENNDOT REVIEW  
PLANS SUBJECT TO CHANGE  
DATE: 7/17/15

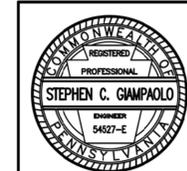
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	CHESTER	0724	-	6 OF 8
EAST COVENTRY				
REVISION NUMBER	REVISIONS	DATE	BY	
1	PENNDOT COMMENTS	05/24/11	JAC	
2	PENNDOT COMMENTS	7/17/15	DHW	

INTERSECTION GRADING PLAN



LEGEND

- PROPOSED FULL DEPTH BITUMINOUS PAVEMENT
- REMOVE EXISTING PAVEMENT AND REPLACE WITH TOPSOIL AND SEEDING
- DRIVEWAY ADJUSTMENT
- 414.75 X EXISTING SPOT ELEVATION
- 414.75 X PROPOSED SPOT ELEVATION
- EOP PROPOSED EDGE OF PAVEMENT
- PC POINT OF CURVATURE
- PCC POINT OF CONTINUED CURVATURE
- PT POINT OF TANGENCY
- MP MIDPOINT OF RADIUS
- GR GRATE/RIM ELEVATION



425 COMMERCE DR  
SUITE 200  
FT WASHINGTON, PA. 19034  
TELE: (215)-283-9444  
FAX: (215)-283-9447

840 SPRINGDALE DR  
EXTON, PA. 19341  
TELE: (610)-594-9995  
FAX: (610)-594-9565

3903 HARTZDALE DRIVE  
SUITE 301  
CAMP HILL, PA. 17011  
TELE: (717)-975-0295  
FAX: (717)-975-0294

DESIGN BY: JAC    JOB NO: 810065  
DRAWN BY: JAC    DWG: 065GRD02  
CHECKED BY: SCG    DATE: 7/1/10

EAST COVENTRY TOWNSHIP  
855 ELLIS WOODS ROAD  
POTTSTOWN, PA 19465  
(610) 495-5443

ROADWAY IMPROVEMENTS  
ON S.R. 0724 SCHUYLKILL ROAD  
EAST COVENTRY TOWNSHIP    CHESTER COUNTY

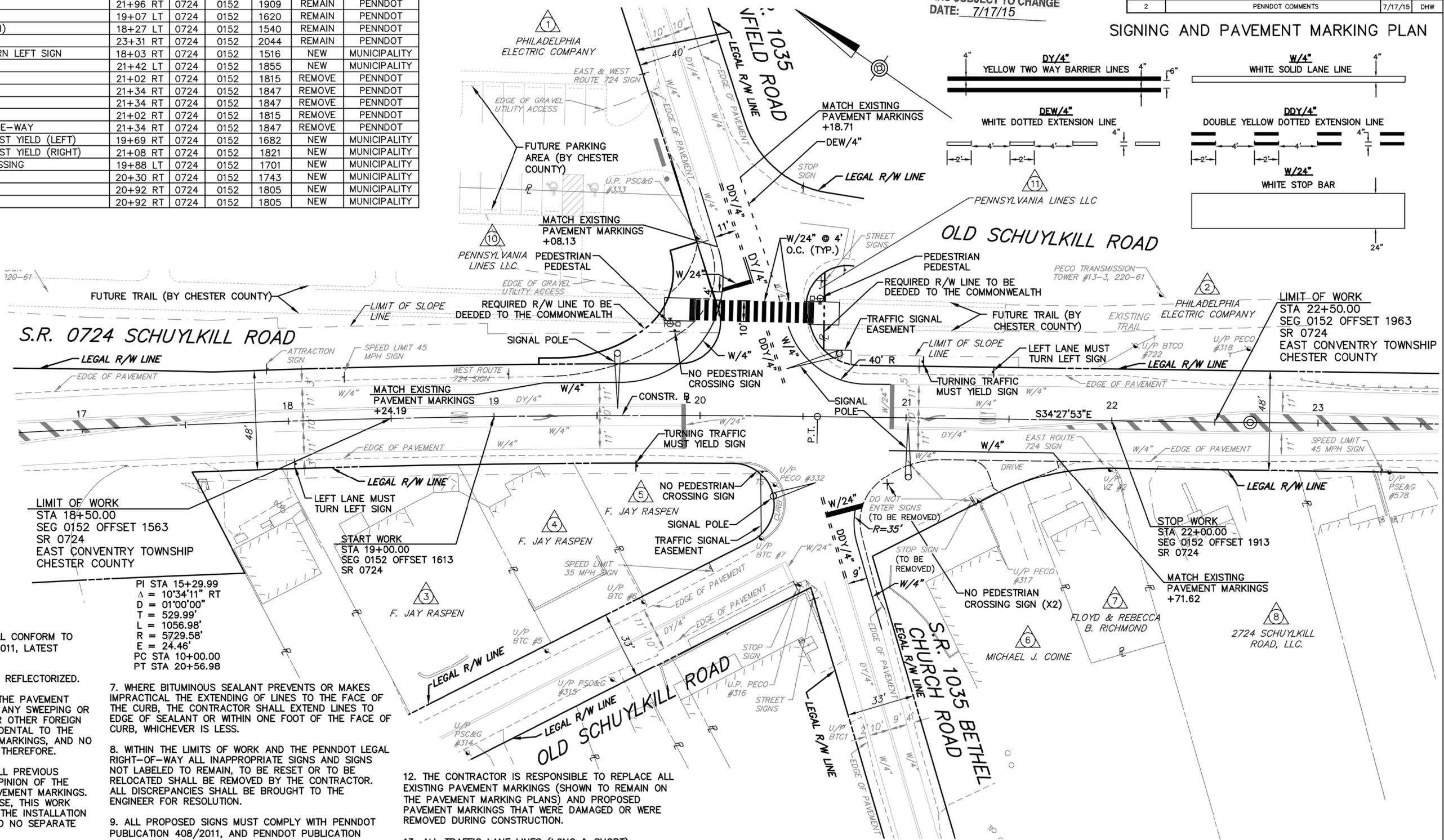
SIGN TABULATION								
SERIES NUMBER	SIZE (IN)	DESCRIPTION	STATION	STATE ROUTE	SEGMENT	OFFSET	ACTION	RESPONSIBILITY
M1-4	24x24	PA ROUTE MARKER (724)	19+07 LT	0724	0152	1620	REMAIN	PENNDOT
M3-2	24x12	EAST MARKER	21+96 RT	0724	0152	1909	REMAIN	PENNDOT
M3-4	24x12	WEST MARKER	19+07 LT	0724	0152	1620	REMAIN	PENNDOT
R2-1	24x30	SPEED LIMIT (45 MPH)	18+27 LT	0724	0152	1540	REMAIN	PENNDOT
			23+31 RT	0724	0152	2044	REMAIN	PENNDOT
R3-7L	30x30	LEFT LANE MUST TURN LEFT SIGN	18+03 RT	0724	0152	1516	NEW	MUNICIPALITY
			21+42 LT	0724	0152	1855	NEW	MUNICIPALITY
R5-1	30x30	DO NOT ENTER	21+02 RT	0724	0152	1815	REMOVE	PENNDOT
			21+34 RT	0724	0152	1847	REMOVE	PENNDOT
R1-1	30x30	STOP	21+34 RT	0724	0152	1847	REMOVE	PENNDOT
R4-7	24x30	KEEP RIGHT SIGN	21+02 RT	0724	0152	1815	REMOVE	PENNDOT
R6-1L	36x12	HORIZONTAL LEFT ONE-WAY	21+34 RT	0724	0152	1847	REMOVE	PENNDOT
R10-15L	30x30	TURNING TRAFFIC MUST YIELD (LEFT)	19+69 RT	0724	0152	1682	NEW	MUNICIPALITY
R10-15R	30x30	TURNING TRAFFIC MUST YIELD (RIGHT)	21+08 RT	0724	0152	1821	NEW	MUNICIPALITY
R9-3A	18x18	NO PEDESTRIAN CROSSING	19+88 LT	0724	0152	1701	NEW	MUNICIPALITY
			20+30 RT	0724	0152	1743	NEW	MUNICIPALITY
			20+92 RT	0724	0152	1805	NEW	MUNICIPALITY
			20+92 RT	0724	0152	1805	NEW	MUNICIPALITY

**NOT FOR CONSTRUCTION**

UNDER PENNDOT REVIEW  
PLANS SUBJECT TO CHANGE  
DATE: 7/17/15

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	CHESTER	0724	-	7 OF 8
EAST COVENTRY				
REVISION NUMBER	REVISIONS	DATE	BY	
1	PENNDOT COMMENTS	05/24/11	JAC	
2	PENNDOT COMMENTS	7/17/15	DHW	

**SIGNING AND PAVEMENT MARKING PLAN**



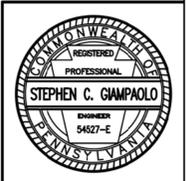
**PAVEMENT MARKING NOTES**

- MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DEPARTMENTS PUBLICATION 408/2011, LATEST REVISION.
- 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 408/2011, AND PENNDOT PUBLICATION 236M, APPROVED SIGNS.
- ALL EXISTING PAVEMENT MARKINGS WHICH ARE NO LONGER APPROPRIATE SHALL BE ERADICATED USING AN ERADICATION METHOD APPROVED BY A PENNDOT FIELD REPRESENTATIVE.
- 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.

- 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 LANE LINES (LONG & SHORT), PEDESTRIAN CROSSWALKS, GORE AREAS, MEDIAN AREAS, LEGENDS, AND STOP BARS SHALL BE COMPRISED OF HOT THERMOPLASTIC PAVEMENT MARKINGS IN BITUMINOUS PAVEMENT AREAS PER PENNDOT PUBLICATION 408/2011, SECTION 0960.
- ALL PAVEMENT MARKINGS SHALL FULLY CONFORM TO PENNDOT SPECIFICATIONS PUBLICATION 408/2011, SECTION 0960 AND MUTCD STANDARDS AND BE CONSTRUCTED IN ACCORDANCE WITH 67 PA CODE CHAPTER 212 SUBCHAPTER K AND TC-8600 SERIES DRAWINGS.

- THE PAVEMENT MARKINGS AND SIGNING INDICATED ON THE TRAFFIC SIGNAL PERMIT PLAN TAKE PRECEDENCE OVER THE HOP PAVEMENT MARKING AND SIGNING PLAN WITHIN THE VICINITY OF THE INTERSECTION.
- THE POSTED SPEED LIMIT FOR S.R. 0724 (SCHUYLKILL ROAD) IS 45 MPH WITHIN THE LIMITS OF WORK. THE POSTED SPEED LIMIT FOR S.R. 1035 (BETHEL CHURCH ROAD/LINFIELD ROAD) IS 35 MPH.



425 COMMERCE DR  
SUITE 200  
FT WASHINGTON, PA. 19034  
TELE: (215)-283-9444  
FAX: (215)-283-9447

840 SPRINGDALE DR  
EXTON, PA. 19341  
TELE: (610)-594-9995  
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3903 HARTZDALE DRIVE  
SUITE 301  
CAMP HILL, PA. 17011  
TELE: (717)-975-0295  
FAX: (717)-975-0294

DESIGN BY: JAC  
DRAWN BY: JAC  
CHECKED BY: SCG  
JOB NO: 810065  
DWG: 065PVM02  
DATE: 7/1/10

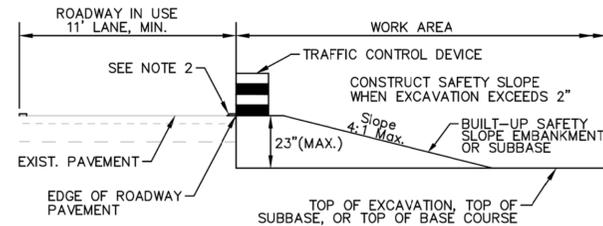
**EAST COVENTRY TOWNSHIP**  
855 ELLIS WOODS ROAD  
POTTSTOWN, PA 19465  
(610) 495-5443

**ROADWAY IMPROVEMENTS  
ON S.R. 0724 SCHUYLKILL ROAD**  
EAST COVENTRY TOWNSHIP  
CHESTER COUNTY

**TRAFFIC CONTROL NOTES**

1. MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE FIGURES PATA 102, PATA 107 AND PATA 201, IN PENNDOT PUBLICATION 213. "WORK ZONE TRAFFIC CONTROL GUIDELINES," JUNE 2014, OR MOST CURRENT. FIGURE PATA 102 IS TO BE USED AT THE DISCRETION OF THE PENNDOT FIELD REPRESENTATIVE ONLY IF THERE IS ADEQUATE PAVEMENT WIDTH AVAILABLE TO MAINTAIN THE MINIMUM TRAVEL LANE WIDTHS (11 FEET).
2. ALL DISTANCES MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
3. RESTORE ALL TRAVEL LANES TO NORMAL TRAFFIC FLOW AT THE CLOSE OF EACH WORK DAY UNDER SHORT-TERM CONDITIONS.
4. PROTECT ANY EXCAVATING OBSTRUCTIONS OR CONSTRUCTION WORK, SO AS NOT TO EXPOSE PEDESTRIANS TO HAZARDS.
5. ALL MILLING, BITUMINOUS WEARING COURSE OVERLAY AND PAVEMENT MARKING WILL OCCUR DURING THE NIGHT HOURS OF 9:00 PM. TO 5:00 AM AND WILL FOLLOW PUBLICATION 213, FIGURE PATA 107.
6. NO TRAFFIC RESTRICTIONS OR LANE CLOSURES ARE PERMITTED ON LEGAL HOLIDAYS AND BETWEEN THE HOURS OF 6:00 AM TO 9:00 AM AND 3:00 PM TO 6:00 PM, MONDAY THROUGH FRIDAY.
7. DROP OFF TREATMENTS SHALL BE INSTALLED IMMEDIATELY FOLLOWING THE DAYS CONSTRUCTION AND CONTINUOUSLY MAINTAINED UNTIL THE DROP OFF IS ELIMINATED.
8. NOTIFY THE LOCAL MUNICIPALITY WHEN A SIGNALIZED INTERSECTION FALLS WITHIN THE WORK ZONE. DO NOT FLAG A SIGNALIZED INTERSECTION WITHOUT THE MUNICIPALITY PLACING THE SIGNAL ON FLASH.
9. USE "ROAD WORK" LEGEND IN LIEU OF "ROAD CONSTRUCTION" LEGEND ON ALL APPLICABLE SIGNS.
10. REMOVE ALL SHORT-TERM WZTC SIGNING UPON COMPLETION OF THAT DAY'S WORK PERIOD.
11. DO NOT STOP TRAFFIC FLOW WITHIN THE WORK AREA FOR MORE THAN A 5-MINUTE PERIOD AT ANY ONE TIME.
12. THIS WORK CONSISTS OF MAINTENANCE OF TRAFFIC AND PROTECTION OF THE PUBLIC WHEN APPROACHING AND DEPARTING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.
13. NOTIFY THE PADOT COMMUNITY RELATIONS COORDINATOR, (610) 205-6800, TWO WEEKS PRIOR TO THE BEGINNING OF WORK WITHIN THE HIGHWAY RIGHT-OF-WAY, AND ANY PHASE CHANGES OR TRAFFIC PATTERN CHANGES.
14. FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES. MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES CONSISTENT WITH THE METHODS INDICATED ON THESE DRAWINGS AND THE FOLLOWING:
  - THE SPECIAL PROVISIONS OF THE CONTRACT.
  - FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
  - PENNDOT PUB. NO. 213, TEMPORARY TRAFFIC CONTROL GUIDELINES.
  - PENNDOT PUB. NO. 212, OFFICIAL TRAFFIC CONTROL DEVICES.
  - PENNDOT PUB. NO. 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15).
  - PENNDOT PUB. NO. 408/2011, SPECIFICATIONS, LATEST REVISION.
  - PENNDOT PUB. 236, HANDBOOK OF APPROVED SIGNS.

15. PERMITTEE MUST ARRANGE FOR INSPECTION OF ALL TRAFFIC CONTROL DEVICES PRIOR TO START OF WORK.
16. MOUNT ALL LONG TERM ADVANCE WARNING SIGNS ON TYPE III BARRICADES UNLESS OTHERWISE NOTED OR INSTRUCTED BY DISTRICT OFFICE.
17. ALL SIGNS AND DEVICES TO BE MAINTAINED IN NEW OR LIKE NEW CONDITION.
18. ERADICATE EXISTING PAVEMENT MARKINGS AND TEMPORARILY COVER OR REMOVE ANY SIGNS (INCLUDING OVERHEAD SIGNS) THAT ARE IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL MEASURES. DO NOT ATTACH TAPE OR ADHESIVE TO THE FACE OF ANY SIGNS THAT ARE TEMPORARILY COVERED DURING CONSTRUCTION OPERATIONS. ENSURE DURING THE REMOVAL AND STORAGE OF ALL SIGNS THAT THE SHEETING FACE IS NOT DAMAGED OR SCRATCHED. REPLACE IN KIND ALL SIGNS AND/OR POSTS DAMAGED DURING REMOVAL, STORAGE OR REINSTALLATION. ERADICATION METHOD TO BE APPROVED BY PENNDOT FIELD INSPECTOR.
19. ALL LONG TERM ADVANCE WARNING SIGNS ARE TO CONFORM TO CURRENT STANDARDS.
20. PERMITTEE SHALL NOTIFY LOCAL EMERGENCY AUTHORITIES, 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.
21. USE TYPE VIII REFLECTIVE SHEETING MATERIAL FOR ALL LONG-TERM ADVANCE WARNING SIGNS. TYPE I SHEETING MAY BE USED ON "THIS ROADWAY TO BE UNDER CONSTRUCTION" SIGNS.
22. THE CONTRACTOR MUST NOTIFY THE DISTRICT 6-0 TRAFFIC MANAGEMENT CENTER (TMC) AT (610) 205-6934 TWO (2) DAYS IN ADVANCE OF ANY PROPOSED LANE OR SHOULDER RESTRICTIONS OR ROAD CLOSURES AND FIFTEEN MINUTES PRIOR TO THE START OF WORK. THE CONTRACTOR MUST NOTIFY THE TMC WHEN THE ROAD IS RESTORED TO NORMAL OPERATION.
23. 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 REGARDS TO THE WORKER'S SAFETY APPAREL.



- NOTE:**
1. SAFETY BUILD UP MUST BE USED IN ANY PLACE WHERE OPEN EXCAVATION ADJACENT TO THE ROADWAY RESULTS IN DROP OFFS GREATER THAN 2".
  2. IF IT IS NECESSARY TO REMOVE THE EXISTING LANE EDGE LINE, PLACE A TEMPORARY 4" WHITE EDGE LINE 2' FROM EDGE OF ROADWAY.

**DROPOFF TREATMENT FOR MAINTAINING TWO LANES OF TRAFFIC**

**PATA 102 (Old PATA 7) - Notes**

1. If the work space is completely within a parking lane and parking is present, the taper or shadow vehicle is not required.
2. For operations of 15 minutes or less:
  - a. The Road Work (W20-1) sign is not required.
  - b. All channelizing devices may be eliminated if a shadow vehicle is present.
3. For divided highways and one-way highways where it is physically possible, advance warning signs should also be placed on the left-hand side of the roadway.
4. When a shadow vehicle is not used, distance E is measured from end of taper to beginning of work space.



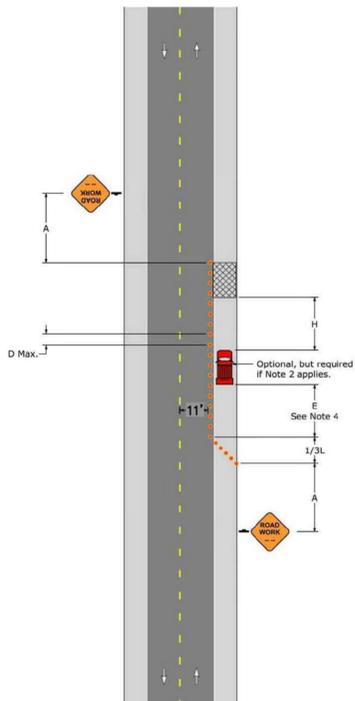
W20-1

**Sign Spacing Chart**

Condition	Distance				Speed	W	L	1/2L	1/3L	Min. Channelizing Devices Per Taper Type (Length)	D	E	H
	A	B	C	F									
Urban 35 MPH or less	100	100	100	100	25	10	115	55	35	6	6	6	50
Urban Greater than 35 MPH	350	350	350	350	30	11	165	85	55	7	6	6	60
Rural	500	500	500	500	35	11	225	115	75	8	6	6	70
40 MPH or less					40	11	295	150	100	9	6	6	80
45 MPH or more					45	11	495	250	165	12	6	6	90
55 MPH or more					55	11	605	305	205	13	6	6	110

Note: Channelizing devices used in taper shall be equally spaced at 1/2 D Max.

**PATA 102 (Old PATA 7) Work Space On Or Beyond The Shoulder (Minor Roadway Encroachment)**



**PATA 107 (Old PATA 10a) - Notes**

1. Each flagger shall be clearly visible to traffic for a minimum distance of E and shall be in constant communication with all other flaggers.
2. For operations of 15 minutes or less:
  - a. The Road Work (W20-1), One Lane Road (W20-4), and Flagger Symbol (W20-7) signs are not required.
  - b. All channelizing devices may be eliminated if a shadow vehicle is present.
3. The buffer space shall be extended so that the two-way traffic taper is placed before a horizontal (or crest vertical) curve to provide adequate sight distance for the flagger and a queue of stopped vehicles.
4. When a shadow vehicle is not used, distance E is measured from end of taper to beginning of work space.



W20-1



W20-4



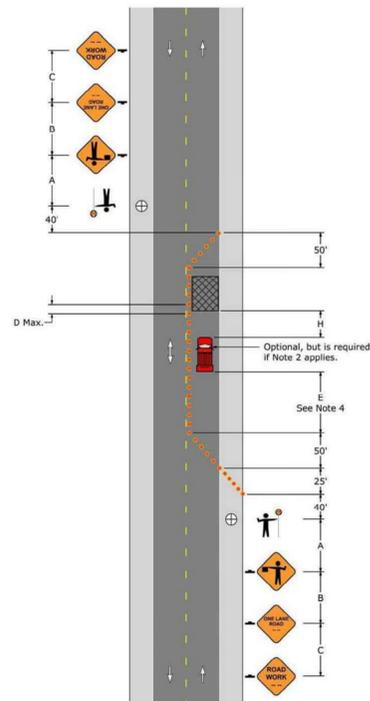
W20-7

**Sign Spacing Chart**

Condition	Distance				Speed	W	L	1/2L	1/3L	Min. Channelizing Devices Per Taper Type (Length)	D	E	H
	A	B	C	F									
Urban 35 MPH or less	100	100	100	100	25	11	115	60	40	6	6	6	50
Urban Greater than 35 MPH	350	350	350	350	30	11	165	85	55	7	6	6	60
Rural	500	500	500	500	35	11	225	115	75	8	6	6	70
40 MPH or less					40	11	295	150	100	9	6	6	80
45 MPH or more					45	11	495	250	165	12	6	6	90
55 MPH or more					55	11	605	305	205	13	6	6	110

Note: Channelizing devices used in taper shall be equally spaced at 1/2 D Max.

**PATA 107 (Old PATA 10a) Work In One Lane; Two Flaggers**



**PATA 201 (Old PATA 24) - Notes**

1. Traffic control devices are not required if the work space is outside the highway right-of-way, behind barrier, more than 2'-0" behind curb, or 15' or more from the edge of the roadway.
2. For divided highways and one-way highways where it is physically possible, advance warning signs should also be placed on the left-hand side of the roadway.
3. When a shadow vehicle is not used, distance A is measured from sign to beginning of work space.



W20-1



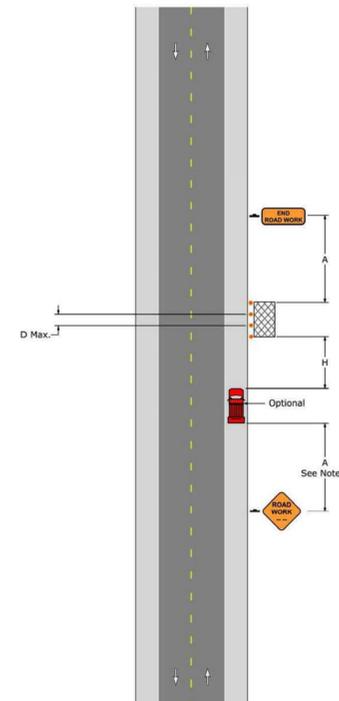
G20-2

**Sign Spacing Chart**

Condition	Distance				Speed	W	L	1/2L	1/3L	Min. Channelizing Devices Per Taper Type (Length)	D	E	H
	A	B	C	F									
Urban 35 MPH or less	100	100	100	100	25	10	105	55	35	6	6	6	50
Urban Greater than 35 MPH	350	350	350	350	30	11	165	85	55	7	6	6	60
Rural	500	500	500	500	35	11	225	115	75	8	6	6	70
40 MPH or less					40	11	295	150	100	9	6	6	80
45 MPH or more					45	11	495	250	165	12	6	6	90
55 MPH or more					55	11	605	305	205	13	6	6	110

Note: Channelizing devices used in taper shall be equally spaced at 1/2 D Max.

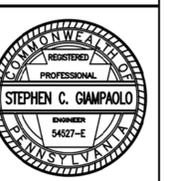
**PATA 201 (Old PATA 24) Work Space Beyond Shoulder**



**MAINTENANCE AND PROTECTION OF TRAFFIC NOT FOR CONSTRUCTION**  
 UNDER PENNDOT REVIEW  
 PLANS SUBJECT TO CHANGE  
 DATE: 7/17/15

**CONSTRUCTION SEQUENCE**

- STAGE 1**
1. INSTALL ALL NECESSARY EROSION CONTROL MEASURES FOR ENTIRE PROJECT.
  2. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES PER PENNDOT PUBLICATION 213, TITLE 67, CHAPTER 212, SEPARATING THE WORK ZONE FROM TRAFFIC ON THE RIGHT SIDE OF S.R. 0724 AND S.R. 1035 BETHEL CHURCH ROAD.
  3. PERFORM ALL WORK ASSOCIATED WITH THE INSTALLATION OF THE NEW TRAFFIC SIGNAL AT S.R. 0724 AND S.R. 1035 UTILIZING PATA 201.
  4. EXCAVATE AND INSTALL FULL DEPTH PAVEMENT UP TO THE BINDER COURSE ALONG THE RIGHT SIDE OF S.R. 0724 FROM STA. 20+50 TO STA. 21+91. REMOVE EXISTING PAVEMENT (OLD SCHUYLKILL RD SPUR) ON THE RIGHT SIDE OF S.R. 0724. RESET THE EXISTING MANHOLE IN THE THROUGH LANE OF S.R. 1035 BETHEL CHURCH ROAD AT STA. 20+74 TO THE FINISH GRADE. CONVERT THE EXISTING INLET TO A MANHOLE AT STA. 20+77 RT. UTILIZE FIGURE PATA 102 DURING OPERATION.
  5. INSTALL TOPSOIL AND SEEDING AND ADDITIONAL FILL AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE TO INLET AT STA. 21+18 RT.
  6. INSTALL FINAL WEARING COURSE ON THE RIGHT SIDE OF S.R. 0724 AND S.R. 1035 BETHEL CHURCH ROAD.
- STAGE 2**
7. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES PER PENNDOT PUBLICATION 213, TITLE 67, CHAPTER 212, SEPARATING THE WORK ZONE FROM TRAFFIC ON THE LEFT SIDE OF S.R. 0724 AND S.R. 1035 (LINFIELD ROAD).
  8. EXCAVATE AND INSTALL FULL DEPTH PAVEMENT UP TO THE BINDER COURSE ALONG THE LEFT SIDE OF S.R. 0724 FROM STA. 19+24 TO STA. 20+10. UTILIZE FIGURE PATA 102 DURING OPERATION.
  9. PERFORM ALL MILLING OPERATIONS ALONG S.R. 1035 LINFIELD ROAD.
  10. INSTALL FINAL WEARING COURSE ON THE LEFT SIDE OF S.R. 0724 AND S.R. 1035 LINFIELD ROAD.
  11. CONSTRUCT CURB RAMPS ON THE LEFT AND RIGHT SIDES OF S.R. 1035 LINFIELD ROAD.
  12. INSTALL FINAL PAVEMENT MARKINGS AND SIGNS ALONG S.R. 1035 LINFIELD ROAD/BETHEL CHURCH ROAD.
  13. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND TEMPORARY TRAFFIC CONTROL DEVICES.



425 COMMERCE DR  
 SUITE 200  
 FT WASHINGTON, PA. 19034  
 TELE: (215)-283-9444  
 FAX: (215)-283-9447

840 SPRINGDALE DR  
 EXTON, PA. 19341  
 TELE: (610)-594-9995  
 FAX: (610)-594-9565

3903 HARTZDALE DRIVE  
 SUITE 301  
 CAMP HILL, PA. 17011  
 TELE: (717)-975-0295  
 FAX: (717)-975-0294

DESIGN BY: JAC  
 DRAWN BY: JAC  
 CHECKED BY: SCG  
 JOB NO: 810065  
 DWG: 065MPT01  
 DATE: 7/1/10

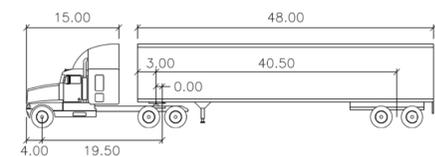
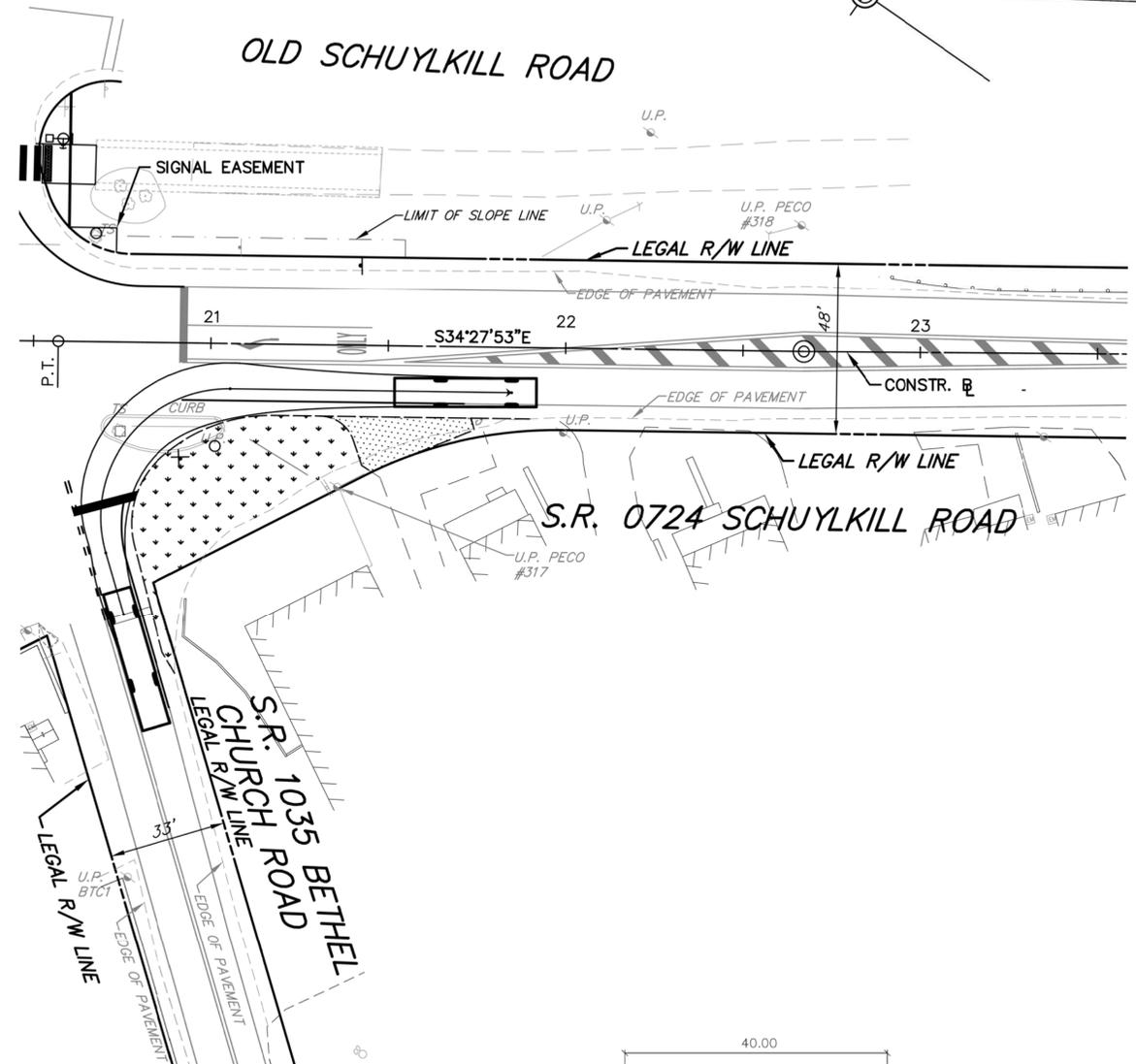
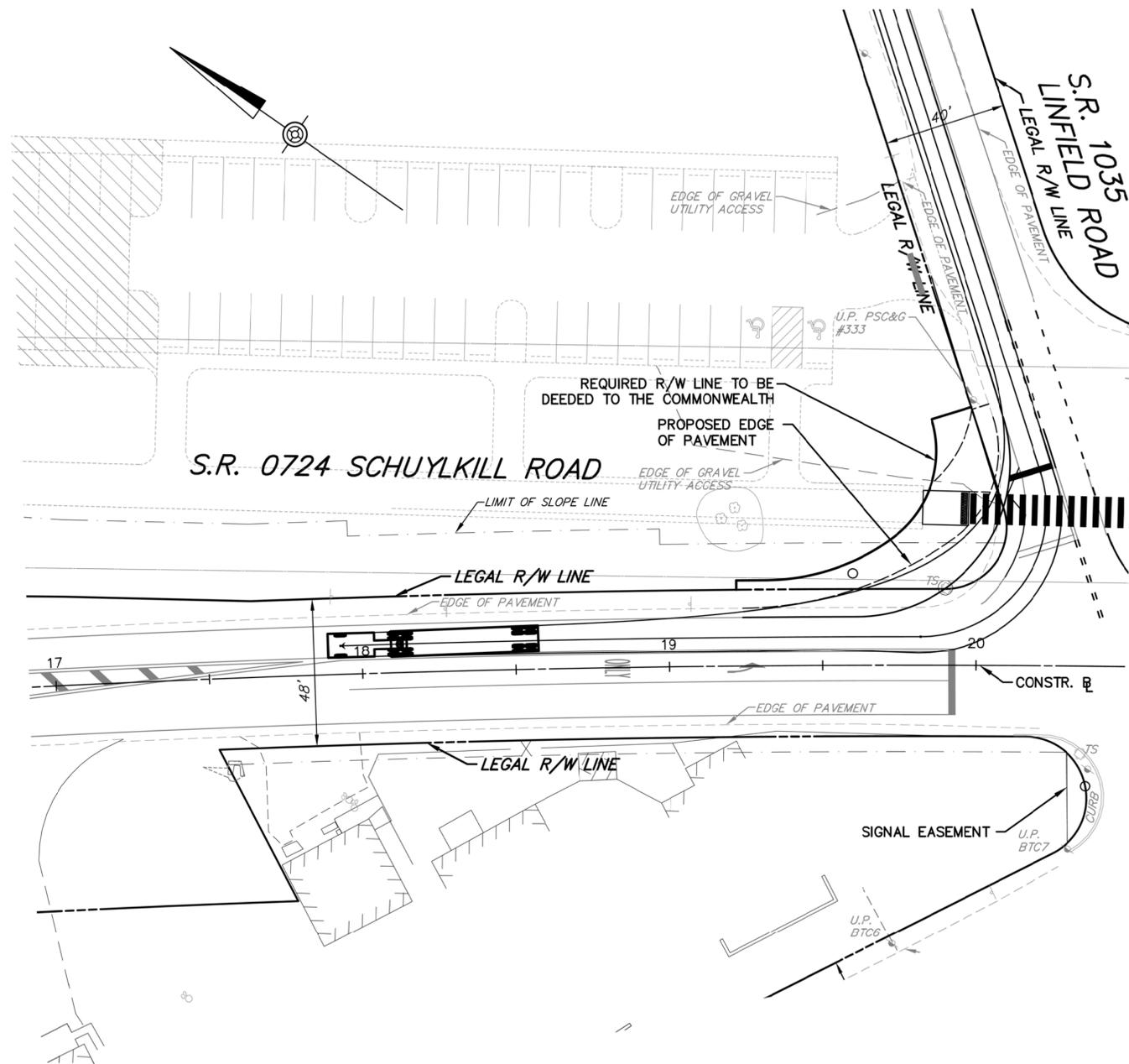
**EAST COVENTRY TOWNSHIP**  
 855 ELLIS WOODS ROAD  
 POTTSTOWN, PA 19465  
 (610) 495-5443

**ROADWAY IMPROVEMENTS ON S.R. 0724 SCHUYLKILL ROAD**  
 EAST COVENTRY TOWNSHIP  
 CHESTER COUNTY

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	CHESTER	0724	-	1 OF 1
EAST COVENTRY				
REVISION NUMBER	REVISIONS	DATE	BY	
1	PENNDOT COMMENTS	05/24/11	JAC	
2	PENNDOT COMMENTS	7/17/15	DHW	

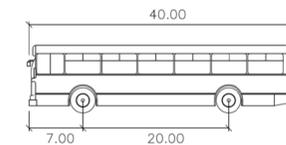
TRUCK TURNING TEMPLATES  
**NOT FOR CONSTRUCTION**

UNDER PENNDOT REVIEW  
PLANS SUBJECT TO CHANGE  
DATE: 7/17/15



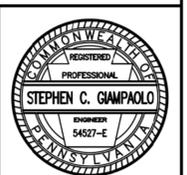
WB-62	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

DESIGN VEHICLE: WB-62  
VEHICLE PROFILE N.T.S.



S-BUS-40	feet	
Width	: 8.00	
Track	: 8.00	
Lock to Lock Time	: 6.0	
Steering Angle	: 34.4	

DESIGN VEHICLE: S-BUS-40  
VEHICLE PROFILE N.T.S.



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FT WASHINGTON, PA. 19034  
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3903 HARTZDALE DRIVE  
SUITE 301  
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FAX: (717)-975-0294

DESIGN BY: JAC  
DRAWN BY: JAC  
CHECKED BY: SCG  
JOB NO: 810065  
DWG: 065TRK01  
DATE: 7/1/10

EAST COVENTRY TOWNSHIP  
855 ELLIS WOODS ROAD  
POTTSTOWN, PA 19465  
(610) 495-5443

ROADWAY IMPROVEMENTS  
ON S.R. 0724 SCHUYLKILL ROAD  
EAST COVENTRY TOWNSHIP

CHESTER COUNTY

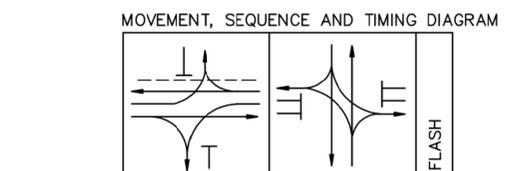
**JANUARY 2010 VOLUMES**

TIME PERIOD	SCHUYLKILL ROAD	BETHEL CHURCH RD	S.R. 1035	TOTALS
1. 7:00AM TO 8:00AM	19	122	98	119
2. 8:00AM TO 9:00AM	35	96	103	134
3. 9:00AM TO 10:00AM				
4. 10:00AM TO 11:00AM				
5. 11:00AM TO 12:00PM				
6. 12:00PM TO 1:00PM				
7. 1:00PM TO 2:00PM				
8. 2:00PM TO 3:00PM				
9. 3:00PM TO 4:00PM				
10. 4:00PM TO 5:00PM				
11. 5:00PM TO 6:00PM				
12. 6:00PM TO 7:00PM				
<b>TOTALS</b>	<b>11</b>	<b>91</b>	<b>155</b>	<b>257</b>

**SCHUYLKILL ROAD**

**++ ADVANCED DILEMMA ZONE NOTES**  
 EST. TIME OF ARRIVAL: MIN. 2.5 - MAX. 5.5 SEC.  
 RANGE OF PROTECTION: MIN. 0 - MAX. 450 FT.  
 SPEED BOUNDARY: MIN. 27 MPH - MAX. 30 MPH

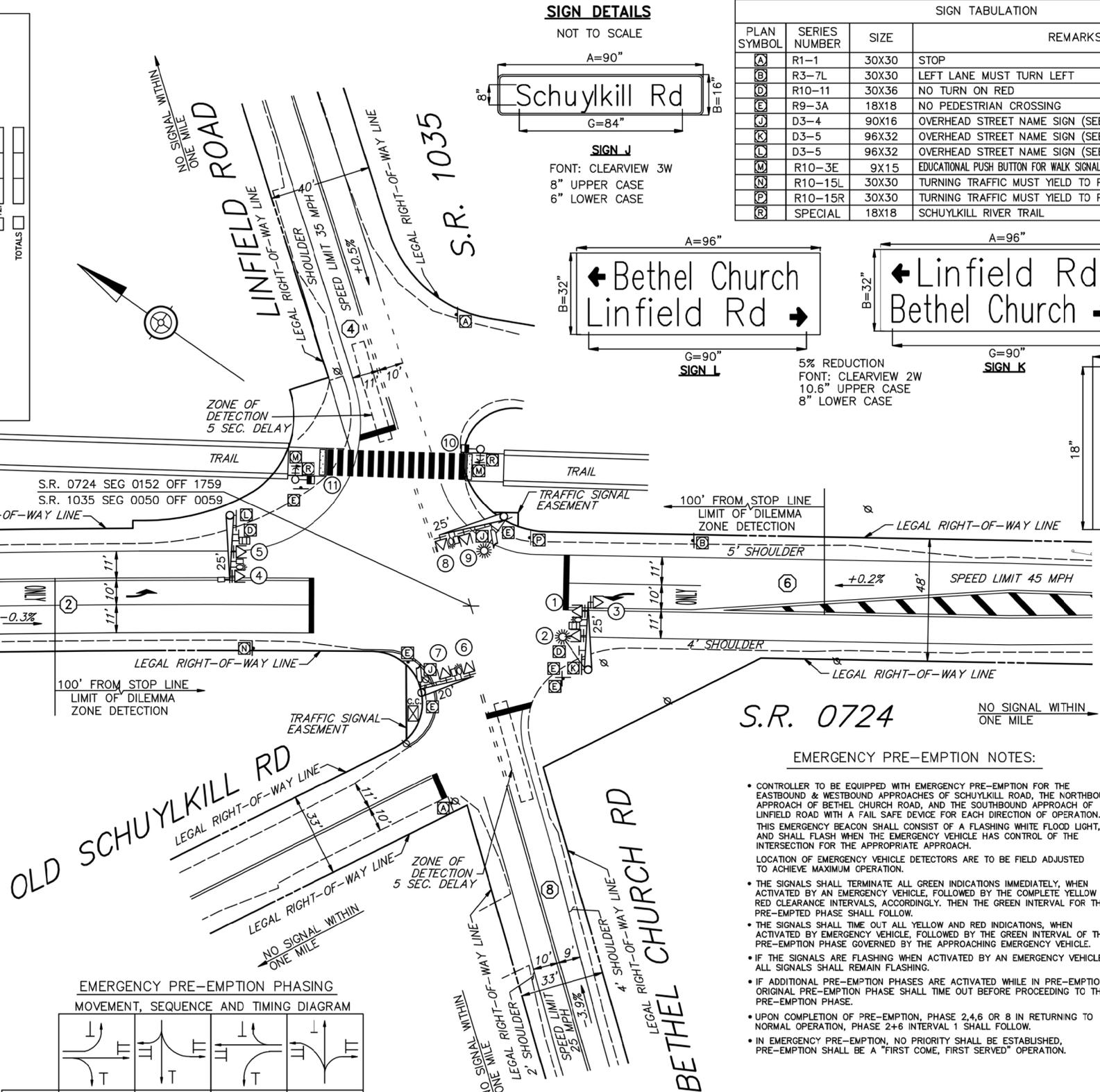
**++ DENSITY ZONE NOTES**  
 RANGE OF DETECTION: 0 TO 100 FEET FROM STOP  
 BAR SPEED BOUNDARY: MIN. 5 MPH - MAX. 45 MPH



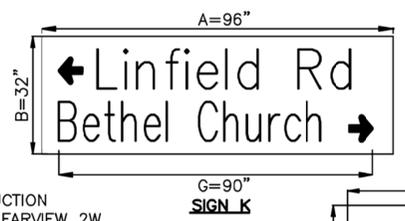
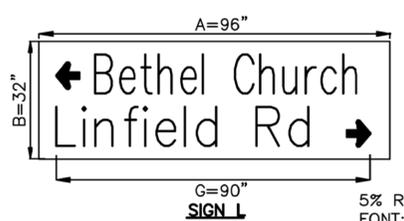
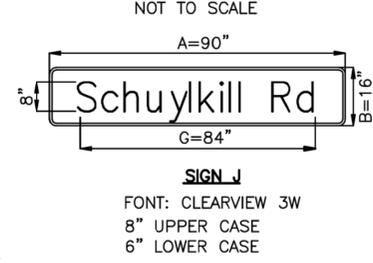
PHASE	2+6	4+8	FLASH
1,2	G G Y R R R R		Y
3,4,5	G G Y R R R R		Y
6,7	R R R R G Y R		R
8,9	R R R R G Y R		R
10,11	M FH H H H H H		OFF

FIXED	5.1	1.2	3.6	2.3
MINIMUM	10		3	
PASSAGE	**		3	
MAX. 1	69		41	
MAX. 2	74		46	
PEDESTRIAN*	7	16		
MEMORY	MN	NL		

\* MAN SYMBOL UPON PEDESTRIAN ACTUATION ONLY, OTHERWISE HAND SYMBOL AT ALL TIMES.  
 • MAX. 2 TO OPERATE FROM 6 AM - 9 AM MON - FRIDAY. MAX 1 TO OPERATE ALL OTHER TIMES.



**SIGN DETAILS**



**SIGN TABULATION**

PLAN SYMBOL	SERIES NUMBER	SIZE	REMARKS
A	R1-1	30X30	STOP
B	R3-7L	30X30	LEFT LANE MUST TURN LEFT
C	R10-11	30X36	NO TURN ON RED
D	R9-3A	18X18	NO PEDESTRIAN CROSSING
E	D3-4	90X16	OVERHEAD STREET NAME SIGN (SEE DETAIL)
F	D3-5	96X32	OVERHEAD STREET NAME SIGN (SEE DETAIL)
G	D3-5	96X32	OVERHEAD STREET NAME SIGN (SEE DETAIL)
H	R10-3E	9X15	EDUCATIONAL PUSH BUTTON FOR WALK SIGNAL WITH COUNTDOWN TIMER
I	R10-15L	30X30	TURNING TRAFFIC MUST YIELD TO PEDESTRIANS (LEFT) SIGN
J	R10-15R	30X30	TURNING TRAFFIC MUST YIELD TO PEDESTRIANS (RIGHT) SIGN
K	SPECIAL	18X18	SCHUYLKILL RIVER TRAIL

**GENERAL NOTES**

NO MODIFICATIONS OF THIS INSTALLATION ARE PERMITTED UNLESS PRIOR APPROVAL IS GRANTED IN WRITING BY A REPRESENTATIVE OF THE DEPARTMENT OF TRANSPORTATION.

ALL MAINTENANCE WORK INCLUDING TRIMMING OF TREES, NECESSARY FOR PROPER VISIBILITY OF THE SIGNALS IS THE RESPONSIBILITY OF THE PERMITTEE.

ALL SIGNS AND PAVEMENT MARKINGS INDICATED ON THIS DRAWING ARE CONSIDERED PART OF THE PERMIT AND SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH PUBLICATION NO. 212.

POST MOUNTED SIGNALS SHALL BE INSTALLED WITH THE SIGNAL HEADS A MINIMUM OF 2 FEET BEHIND THE FACE OF CURB OR THE EDGE OF THE SHOULDER. SUPPORT POLES FOR OVERHEAD SIGNALS SHALL ALSO HAVE A MINIMUM CLEARANCE HORIZONTALLY OF 2 FEET.

SIGNALS ERECTED OVER THE ROADWAY SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 16 FT. ABOVE THE ROADWAY. POST MOUNTED SIGNALS SHALL BE A MINIMUM OF 8 FT. ABOVE THE SIDEWALK OR PAVEMENT.

ALL OVERHEAD SIGNALS MUST BE RIGIDLY MOUNTED, TOP AND BOTTOM, AND EQUIPPED WITH BACKPLATES.

THE MINIMUM HORIZONTAL DISTANCE BETWEEN SIGNALS MEASURED AT RIGHT ANGLES TO THE APPROACH SHALL BE 8 FEET.

EXACT LOCATION OF DETECTORS SHALL BE DETERMINED PRIOR TO INSTALLATION BY A REPRESENTATIVE OF PENNDOT.

CURBING TO BE INSTALLED BY MUNICIPALITY AND WHERE NOTED, SHALL BE PLAIN CEMENT CONCRETE CURB OR GRANITE CURB, INSTALLED IN ACCORDANCE WITH DEPARTMENT SPECIFICATIONS FORM 408.

PRIOR TO INSTALLATION THE CONTRACTOR SHALL CONSULT WITH THE LOCAL OFFICIALS AND UTILITY COMPANIES TO RESOLVE ANY PROBLEMS WHICH MAY BE CREATED DUE TO THE LOCATION OF UTILITIES.

THIS DRAWING CANNOT BE USED AS A CONSTRUCTION DRAWING UNLESS THE PERMITTEE COMPLIES WITH THE PROVISIONS OF THE LATEST AMENDMENT TO ACT 287, PREVENTION OF DAMAGE TO UNDERGROUND UTILITIES, DATED DECEMBER 20, 1974.

WHEN LIQUID FUELS MONEY IS USED, SIGNAL INSTALLATION MUST CONFORM TO FORM 408 AND A COPY OF THE PROPOSED SPECIFICATIONS MUST BE SUBMITTED TO THE DISTRICT TRAFFIC UNIT, FOR REVIEW, PRIOR TO BIDDING.

PERMITTEE SHALL OBTAIN A HIGHWAY OCCUPANCY PERMIT FOR ANY CHANGES IN INTERSECTION GEOMETRY REGARDING EXCAVATION.

CONDUIT INSTALLED IN BITUMINOUS ROADWAY LESS THAN 5 YEARS OLD, OR CONCRETE ROADWAY REGARDLESS OF AGE, MUST BE BORED OR JACKED UNDER THE ROADWAY. INSTALL IN ACCORDANCE WITH TRAFFIC SIGNAL STANDARDS TC-8800 SERIES.

**NOT FOR CONSTRUCTION**

UNDER PENNDOT REVIEW  
 PLANS SUBJECT TO CHANGE  
 DATE: 7/23/15

PENNSYLVANIA DEPARTMENT OF TRANSPORTATION  
 ENGINEERING DISTRICT 6-0

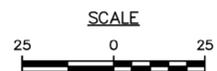
COUNTY: **CHESTER**  
 MUNICIPALITY: **EAST COVENTRY TOWNSHIP**  
 INTERSECTION: **SCHUYLKILL ROAD (S.R. 0724) & BETHEL CHURCH/LINFIELD RDS (S.R. 1035)**

REVIEWED: \_\_\_\_\_ DATE \_\_\_\_\_  
 MUNICIPAL OFFICIAL: \_\_\_\_\_ DATE \_\_\_\_\_  
 RECOMMENDED: **DOUGLAS MAY** 5/11/89  
**MARK L. KRAY** 5/11/89  
 DISTRICT TRAFFIC ENGINEER DATE

NO.	REVISION	DES./REV.	DATE	REV.	DATE	RECOM.	DATE
1	NEW DWG, TIMING	C.B.	5/11/89	MLK	5/11/89	DWM	5/11/89
2	MODIFYING OPERATION	JUF	12/13/92	MLK	12/21/92	DWM	12/21/92
3	ADD "NTOR" SIGN					WJE	12/12/03
4	SIGNAL UPGRADE, NEW DWG	McM	6/30/15				
5							
6							
7							
8							

**EMERGENCY PRE-EMPTION NOTES:**

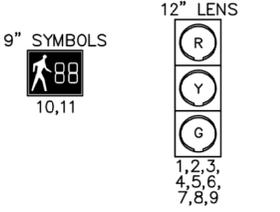
- CONTROLLER TO BE EQUIPPED WITH EMERGENCY PRE-EMPTION FOR THE EASTBOUND & WESTBOUND APPROACHES OF SCHUYLKILL ROAD, THE NORTHBOUND APPROACH OF BETHEL CHURCH ROAD, AND THE SOUTHBOUND APPROACH OF LINFIELD ROAD WITH A FAIL SAFE DEVICE FOR EACH DIRECTION OF OPERATION. THIS EMERGENCY BEACON SHALL CONSIST OF A FLASHING WHITE FLOOD LIGHT, AND SHALL FLASH WHEN THE EMERGENCY VEHICLE HAS CONTROL OF THE INTERSECTION FOR THE APPROPRIATE APPROACH. LOCATION OF EMERGENCY VEHICLE DETECTORS ARE TO BE FIELD ADJUSTED TO ACHIEVE MAXIMUM OPERATION.
- THE SIGNALS SHALL TERMINATE ALL GREEN INDICATIONS IMMEDIATELY, WHEN ACTIVATED BY AN EMERGENCY VEHICLE, FOLLOWED BY THE COMPLETE YELLOW AND RED CLEARANCE INTERVALS, ACCORDINGLY. THEN THE GREEN INTERVAL FOR THE PRE-EMPTED PHASE SHALL FOLLOW.
- THE SIGNALS SHALL TIME OUT ALL YELLOW AND RED INDICATIONS, WHEN ACTIVATED BY EMERGENCY VEHICLE, FOLLOWED BY THE GREEN INTERVAL OF THE PRE-EMPTION PHASE GOVERNED BY THE APPROACHING EMERGENCY VEHICLE.
- IF THE SIGNALS ARE FLASHING WHEN ACTIVATED BY AN EMERGENCY VEHICLE, ALL SIGNALS SHALL REMAIN FLASHING.
- IF ADDITIONAL PRE-EMPTION PHASES ARE ACTIVATED WHILE IN PRE-EMPTION, THE ORIGINAL PRE-EMPTION PHASE SHALL TIME OUT BEFORE PROCEEDING TO THE NEXT PRE-EMPTION PHASE.
- UPON COMPLETION OF PRE-EMPTION, PHASE 2,4,6 OR 8 IN RETURNING TO NORMAL OPERATION, PHASE 2+6 INTERVAL 1 SHALL FOLLOW.
- IN EMERGENCY PRE-EMPTION, NO PRIORITY SHALL BE ESTABLISHED, PRE-EMPTION SHALL BE A "FIRST COME, FIRST SERVED" OPERATION.



**LEGEND**

- 20' MAST ARM/IDENTIFYING LENGTH
- 12"x6" LOOP SENSOR/SIZE
- VEHICULAR SIGNAL HEAD/BACKPLATE/VISORS/DIRECTIONAL ARROW/IDENTIFYING NUMBER
- EMERGENCY PRE-EMPTION FLASHING BEACON
- PEDESTRIAN SIGNAL HEAD/IDENTIFYING NUMBER
- EMERGENCY PRE-EMPTION DEVICE
- PEDESTRIAN PUSHBUTTON/SIGN
- CURB RAMP
- UTILITY POLE
- SIGN/IDENTIFYING LETTER
- PHASE NUMBER
- INLET
- LUMINAIRE
- ADVANCE DILEMMA ZONE DETECTION SYSTEM

**SIGNAL INDICATIONS**



ALL SIGNALS TO BE EQUIPPED WITH TUNNEL VISORS