

1. OWNER: FERGUSON TOWNSHIP
3147 RESEARCH DRIVE
STATE COLLEGE, PA 16801
(814) 238-4651
2. THE LEGAL RIGHT OF WAY ON AVEBURY CIRCLE, APPLETREE CIRCLE, AND DOGWOOD CIRCLE ARE FIFTY (50) FEET.
3. THE LEGAL RIGHT OF WAY ON PARK LANE AND PRINCETON DRIVE ARE SIXTY (60) FEET.

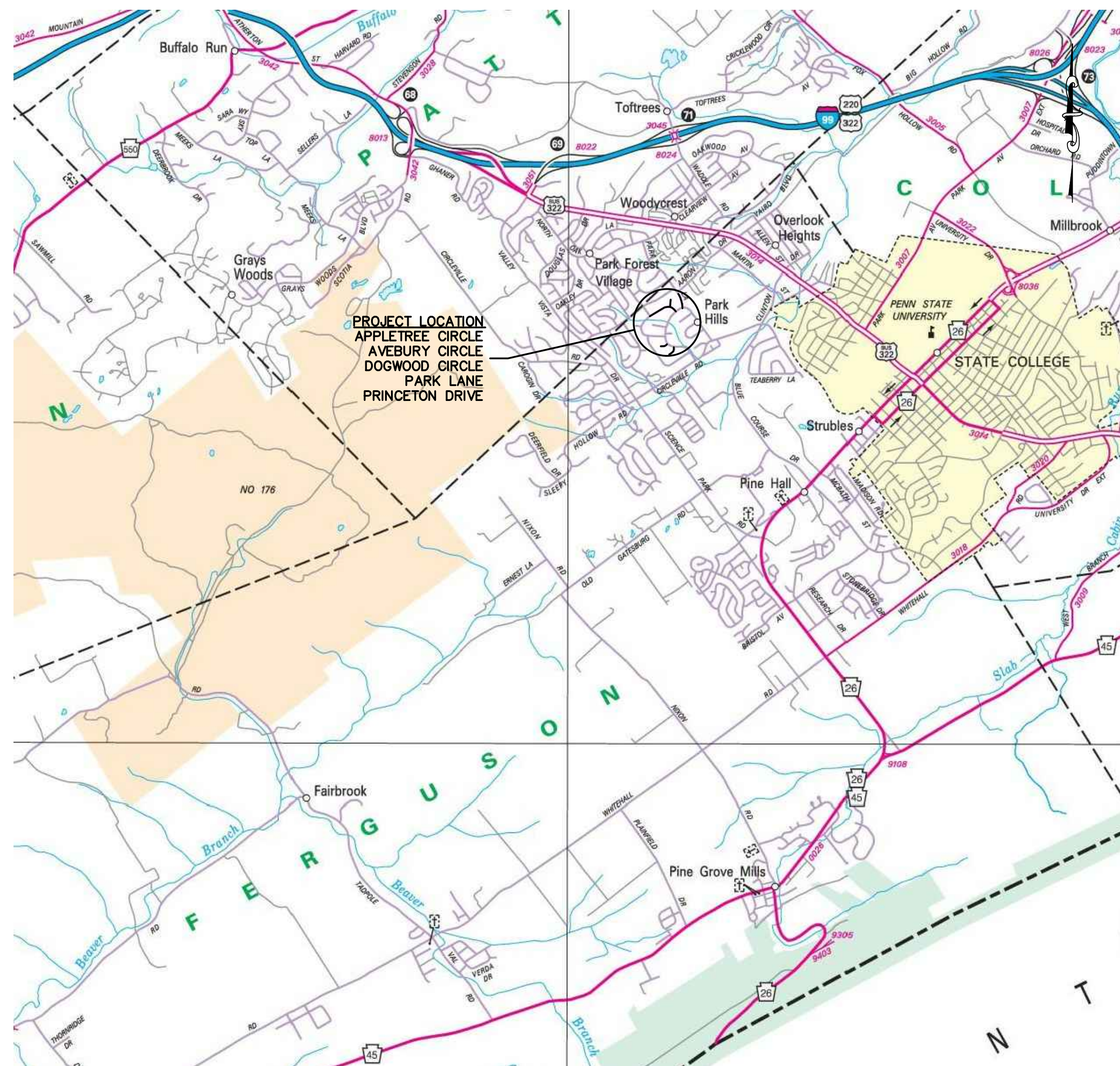
1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY AND ARE BASED ON RECORDS OF THE VARIOUS FACILITY OWNERS AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE UTILITY INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST NOTIFY THE PA ONE-CALL SYSTEM AT LEAST 3 DAYS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING PUBLICATIONS:
 - FERGUSON TOWNSHIP CHAPTER 21 – "STREETS AND SIDEWALKS"
 - FERGUSON TOWNSHIP CHAPTER 26 – "WATER (STORMWATER MANAGEMENT)"
 - PENNDOT PUBLICATION 408 / 2016 (CHANGE No. 5)
 - PENNDOT PUBLICATIONS 34, 35, 37, AND 38 (APPROVED CONSTRUCTION MATERIALS)
 - PENNDOT PUBLICATION 72M – STANDARDS FOR ROADWAY CONSTRUCTION
 - PENNDOT PUBLICATION 213M – WORK ZONE TRAFFIC CONTROL
 - PENNDOT PUBLICATION 70M – GUIDELINES FOR DESIGN OF LOCAL ROADS AND STREETS
 - PENNDOT PUBLICATION 111M – TC 8700 TRAFFIC SIGNING STANDARDS
 - PENNDOT PUBLICATION 236M – HANDBOOK OF APPROVED SIGNS
 - PENNDOT PUBLICATION 13M – DESIGN MANUAL 2 – HIGHWAY DESIGN
 - PENNSYLVANIA CODE, TITLE 67, CHAPTERS 441 AND 459
 - PENNDOT PUBLICATION 148 – TC 8800 TRAFFIC STANDARDS
2. CONSTRUCTION STANDARDS:
CONSTRUCTION DETAILS, OTHER THAN THOSE INDICATED ON THE PLAN, ARE ON THE FOLLOWING PENNDOT PUBLICATIONS 72M STANDARD DRAWINGS:
 - RC-10M CLASSIFICATION OF EARTHWORK
 - RC-13M PAY LIMIT OF SUBBASE
 - RC-65M CONCRETE MOUNTABLE CURB
 - RC-70M PERIMETER CONTROL DEVICES
 - RC-72M INLET AND OUTLET PROTECTION
3. VIBRATORY FUNCTION ON ROLLERS SHALL NOT BE USED WITHIN ONE ROLLER PASS ON EITHER SIDE OF WATER LINES.
4. FIELD ADJUST DRIVEWAY TIE-INS TO ENSURE POSITIVE DRAINAGE TO PREVENT PONDING, REFER TO APPENDIX "A" OF FERGUSON TOWNSHIP CHAPTER 21 – "STREETS AND SIDEWALKS" FOR DRIVEWAY CONSTRUCTION GUIDELINES. LIMITS OF WORK MAY VARY AND WILL BE FIELD DIRECTED BY OWNER.

1. MAINTAIN TRAFFIC IN ACCORDANCE WITH THE LATEST EDITION OF PENNDOT PUBLICATION 213M (67 PA CODE, CH. 212) WORK ZONE TRAFFIC CONTROL GUIDELINES.
2. PROVIDE FLAGGERS AT INTERSECTION DURING LANE CLOSURES.
3. ROAD CLOSURES SHALL NOT BE PERMITTED, ONE LANE SHALL BE ACCESSIBLE TO TRAFFIC AT ALL TIMES.
4. SHORT-TERM WORK ZONE TRAFFIC CONTROL SHALL BE REMOVED AT THE END OF EACH WORK DAY.
5. DO NOT HAVE TRAVEL LANE DROP-OFFS/OPEN EXCAVATIONS DURING NON-WORKING HOURS.
6. THE POSTED SPEED LIMIT ON ALL ROADS IN CONTRACT 2019-C1 IS 25 MPH.
7. PROVIDE ORANGE RELUCTIVE FENCING WITH DELINEATION DEVICES AROUND AREAS OF OPEN EXCAVATION TO DELINEATE FOR PEDESTRIAN TRAFFIC.
8. PROVIDE CANALIZING DEVICES AS NEEDED TO CLEARLY DELINEATE TRAVEL LANE AND ACCESS TO DRIVEWAYS.
9. PROVIDE AN APPROPRIATE NUMBER OF FLAG PERSONS AS NEEDED BASED UPON LIMIT OF WORK AREA.

ITEM No. UNIT	DESCRIPTION	TOTAL QTY.	APPLETREE QTY	AVEBURY QTY	DOGWOOD QTY	PARK LANE QTY	PRINCETON QTY
0203 0004 CY	CLASS 1B EXCAVATION (BASE REPAIR)	95	9	39	26	0	21
4311 0324 SY	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BASE COURSE, PG 64-22, < 0.3 MILLION ESALS, 25 MM MIX (5" DEPTH) (MODIFIED)	287	28	110	83	0	66
4350 0106 SY	SUBBASE 6" DEPTH (NO. 2A) (BASE REPAIR)	287	28	110	83	0	66
4411 0385 SY	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA WEARING COURSE, PG 64-22, <0.3 MILLION ESALS, 9.5MM MIX, 1.5" DEPTH, SRL-L (MODIFIED)	7,457	1134	1450	1029	0	3844
4411 0484 SY	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA WEARING COURSE, PG 64-22, 0.3 TO < 3 MILLION ESALS, 9.5MM MIX, 1.5" DEPTH, SRL-M (MODIFIED)	1,943	0	0	0	1943	0
4411 2395 TON	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA WEARING COURSE (SCRATCH), PG 64-22, <0.3 MILLION ESALS, 9.5MM MIX, SRL-L (MODIFIED)	207	32	40	29	0	106
4411 2494 TON	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA WEARING COURSE (SCRATCH), PG 64-22, 0.3 TO < 3 MILLION ESALS, 9.5MM MIX, SRL-M (MODIFIED)	54	0	0	0	54	0
0460 0001 SY	BITUMINOUS TACK COAT	18,800	2268	2900	2058	3886	7688
0491 0013 SY	MILLING OF BITUMINOUS PAVEMENT SURFACE, 2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR	7,457	1194	1538	1029	1943	3844

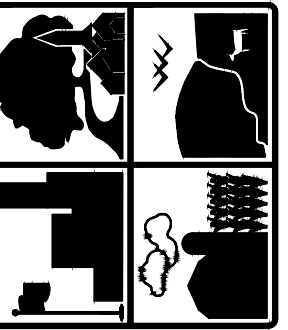
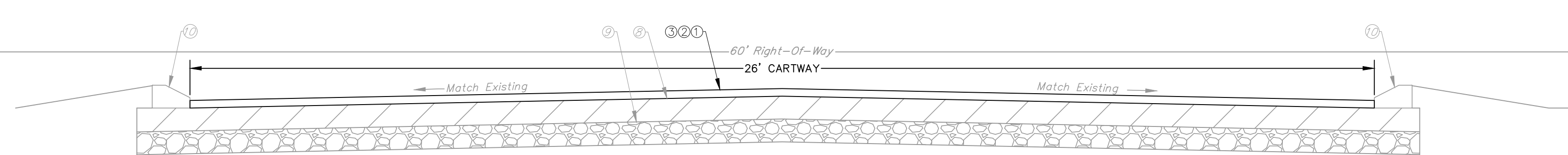
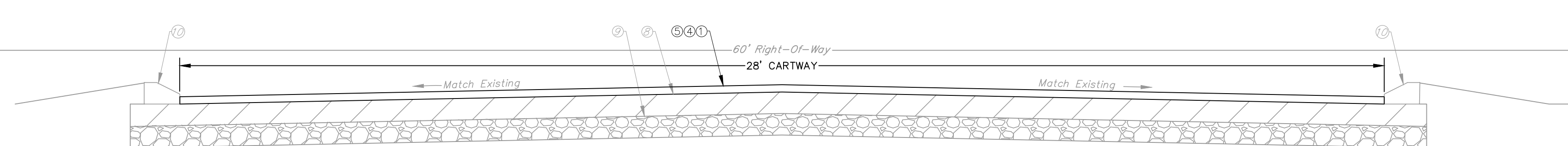
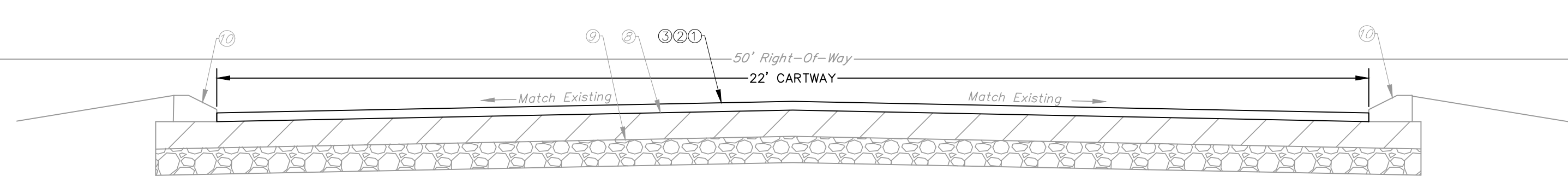
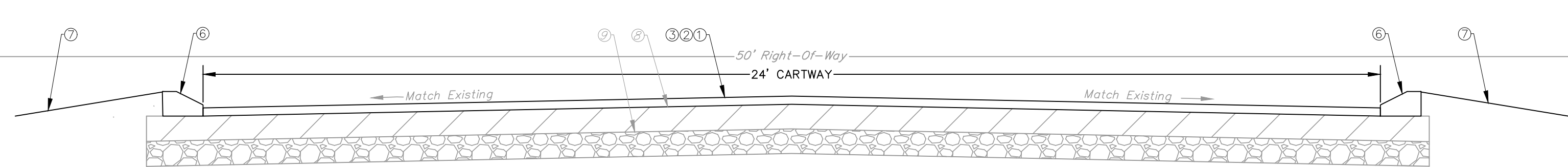
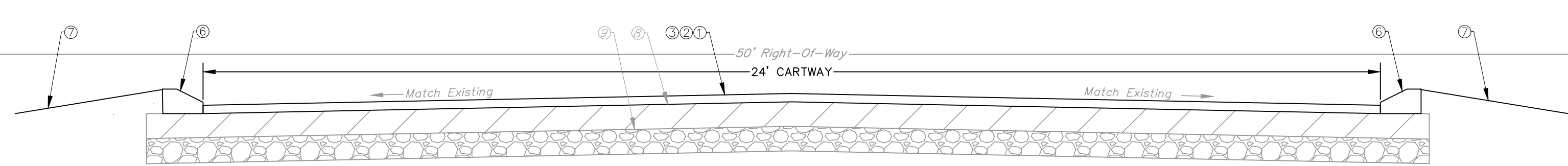
ITEM No. UNIT	DESCRIPTION	TOTAL QTY.	APPLETREE QTY	AVEBURY QTY	DOGWOOD QTY	PARK LANE QTY	PRINCETON QTY
0608 0001 LS	MOBILIZATION	1	0	0	0	0	0
4630 0010 LF	PLAIN CEMENT CONCRETE CURB (MODIFIED)	25	0	25	0	0	0
4633 0200 LF	PLAIN CONCRETE MOUNTABLE CURB, TYPE A (MODIFIED)	1,483	612	871	0	0	0
0802 0001 CY	TOPSOIL FURNISHED AND PLACED	70	29	41	0	0	0
0860 0002 EA	INLET FILTER BAG FOR TYPE C INLET	8	0	0	0	1	7
0901 0001 LS	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION	1	0	0	0	0	0
9000 0001 SY	SEEDING, SOIL SUPPLEMENTS AND MULCHING	838	340	498	0	0	0
9000 0002 EA	RESET MAILBOXES	14	6	8	0	0	0
9000 0003 SY	DRIVEWAY RESTORATION	137	59	78	0	0	0



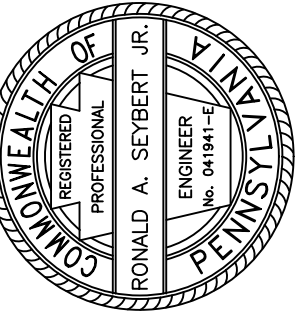
PROJECT LOCATION MAP

NOT TO SCALE

- ① MILLING OF BITUMINOUS PAVEMENT SURFACE, 2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR
- ② WMA WEARING COURSE, PG 64-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1.5" DEPTH, SRL-L
- ③ WMA WEARING COURSE (SCRATCH), PG 64-22, <0.3 MILLION ESALS, 9.5 MM MIX, SRL-L
- ④ WMA WEARING COURSE, PG 64-22, 0.3 TO <3 MILLION ESALS, 9.5 MM MIX, 1.5" DEPTH, SRL-M
- ⑤ WMA WEARING COURSE (SCRATCH), PG 64-22, 0.3 TO <3 MILLION ESALS, 9.5 MM MIX, SRL-M
- ⑥ LOW PROFILE BASE SUPPORTED CEMENT CONCRETE CURB
- ⑦ TOPSOIL BACKUP, 10H:1V (SEE TYPICAL SECTION)
- ⑧ *Base Course*
- ⑨ *Sub-Base Aggregate*
- ⑩ *Base Supported Concrete Curb*



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ROAD IMPROVEMENT PROJECTS
CONTRACT 2019-C1

TYPICAL SECTIONS

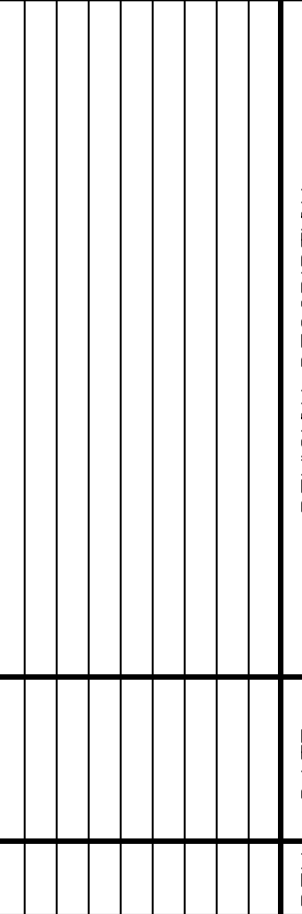
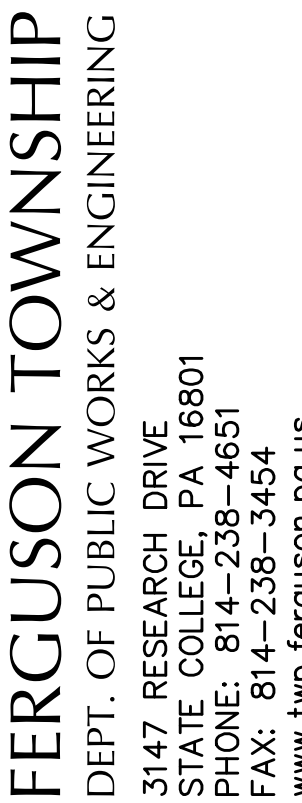
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DRAWN BY: MSP

CHECKED BY: RAS

DATE: 03-12-2019
PATH: W:\Public Works\PWStaff\Capital Projects\2019 Projects\2019-C1Street Improvements\dwg



ROAD IMPROVEMENT PROJECTS
CONTRACT 2019-C1

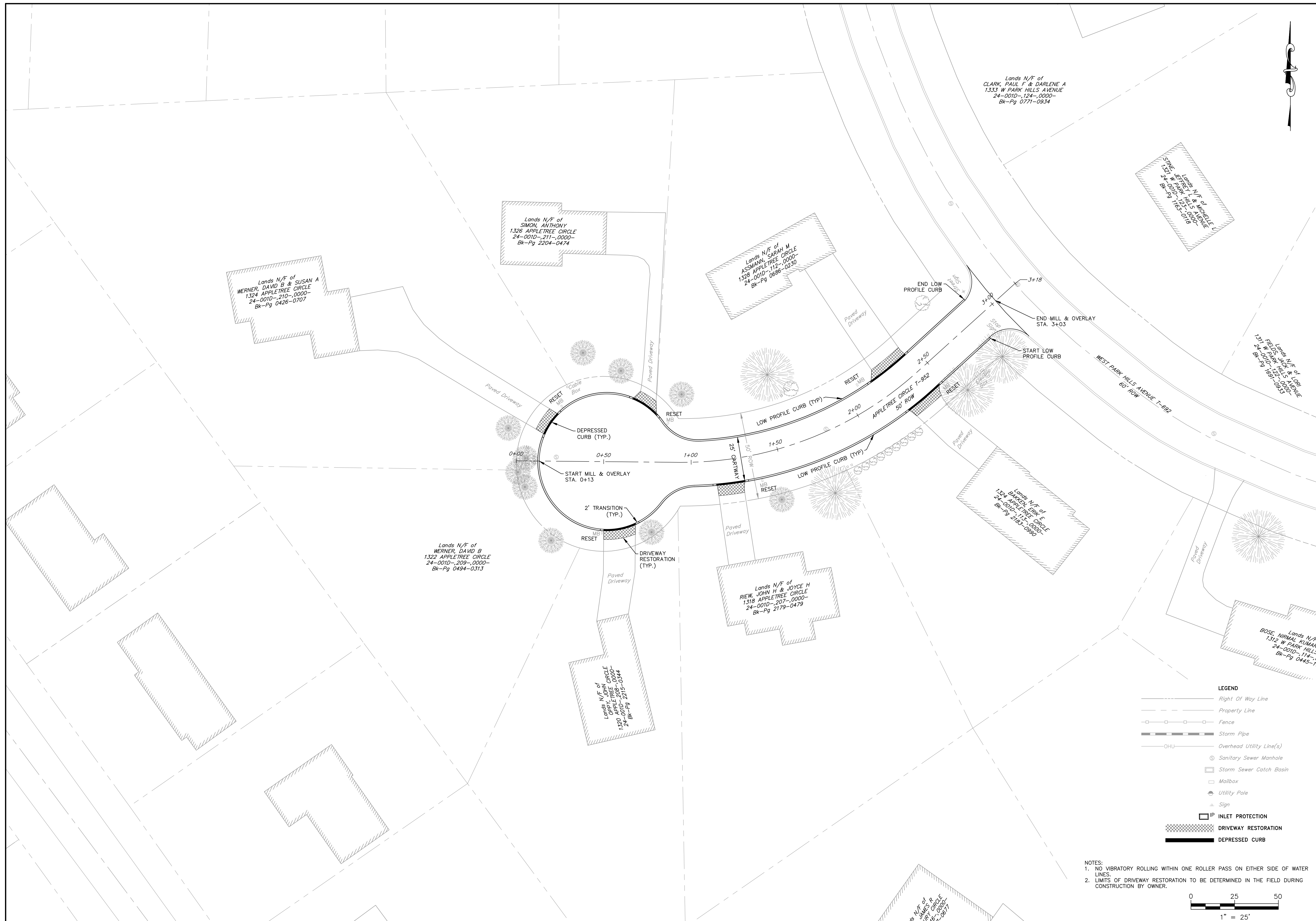
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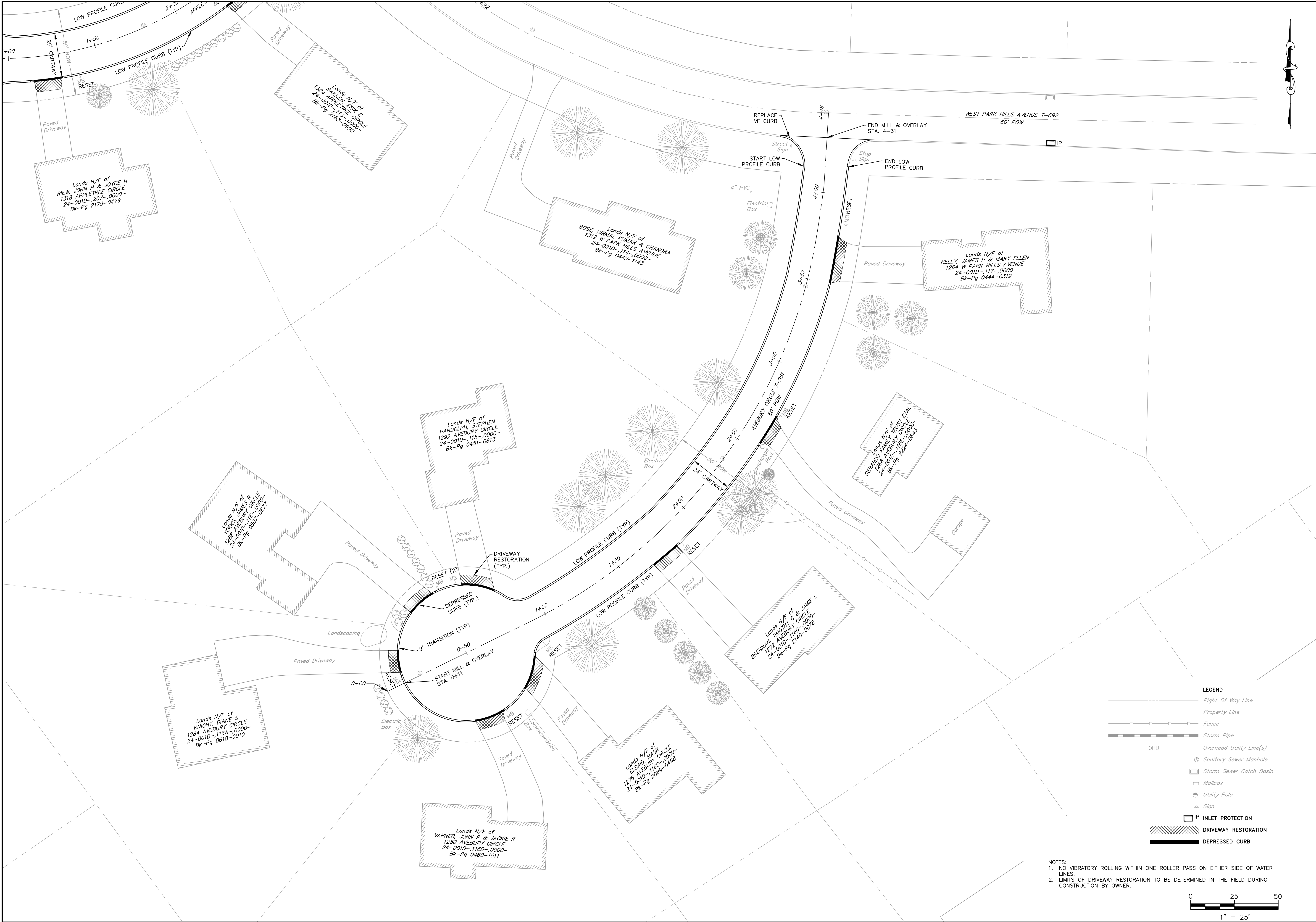
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CHECKED BY: RAS

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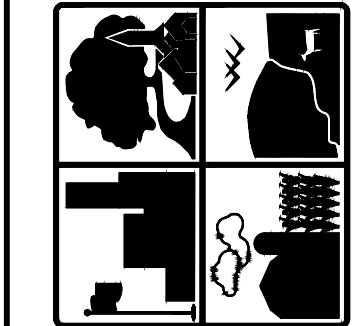
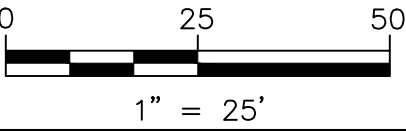
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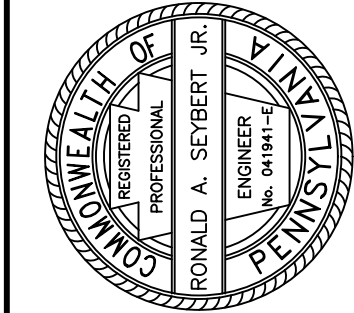




NOTES:
1. NO VIBRATORY ROLLING WITHIN ONE ROLLER PASS ON EITHER SIDE OF WATER LINES.
2. LIMITS OF DRIVEWAY RESTORATION TO BE DETERMINED IN THE FIELD DURING CONSTRUCTION BY OWNER.



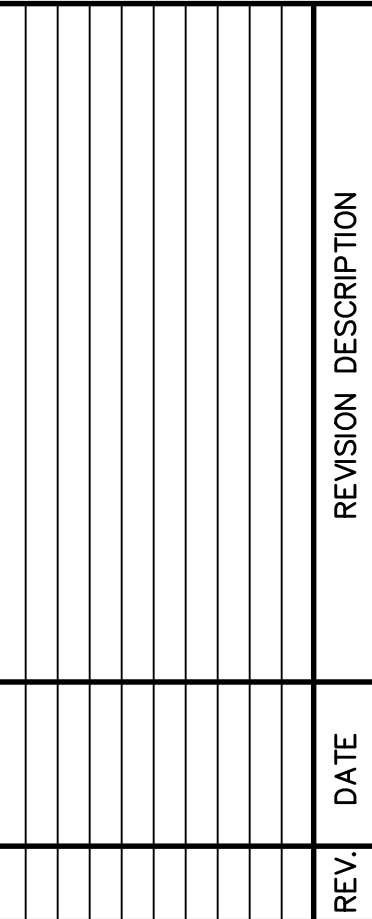
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REV.	DATE	REVISION DESCRIPTION

ROAD IMPROVEMENT PROJECTS
CONTRACT 2019-C1
AVEBURY CIRCLE

DESIGNED BY: RJS	5
DRAWN BY: MSP	
CHECKED BY: RAS	
DATE: 3-12-2019	
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ROAD IMPROVEMENT PROJECTS
CONTRACT 2019-C1

DOGWOOD CIRCLE

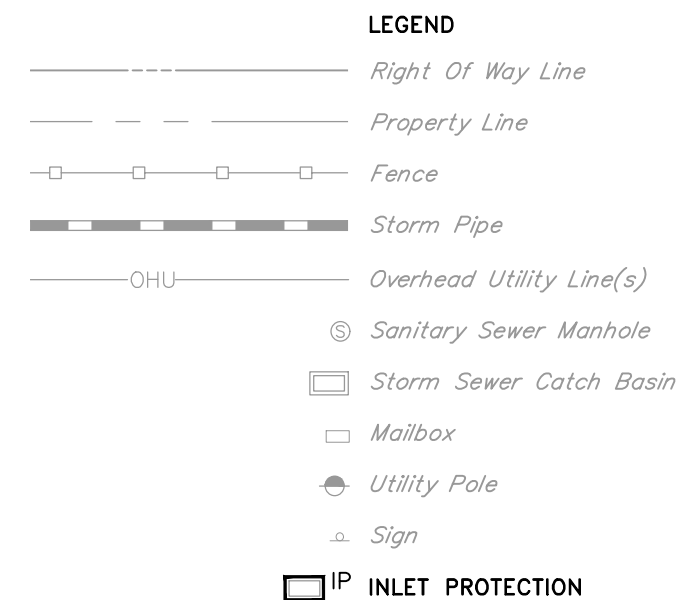
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DESIGNED BY: RTS

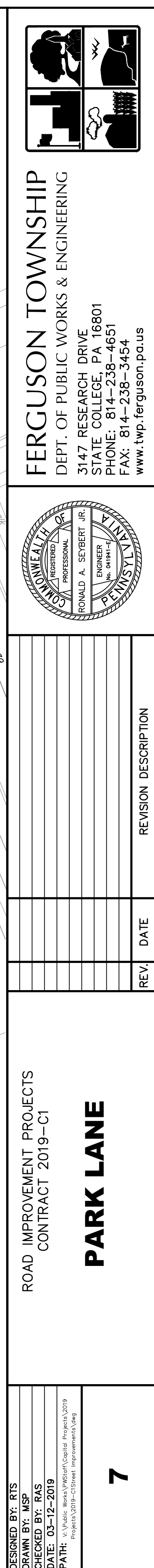
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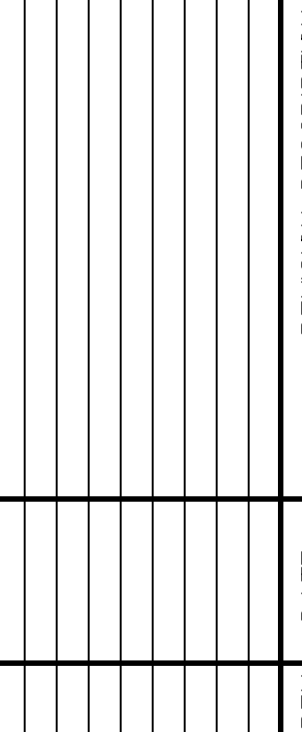
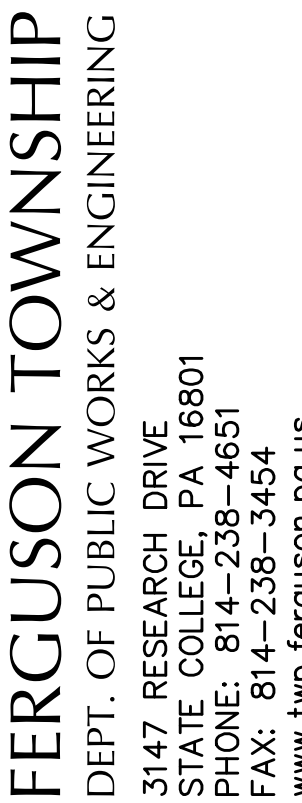
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NOTE:
1. NO VIBRATORY ROLLING WITHIN ONE ROLLER PASS ON EITHER SIDE OF WATER LINES.



ROAD IMPROVEMENT PROJECTS
CONTRACT 2019-C1

PRINCETON DRIVE

DESIGNED BY: RTS

DRAWN BY: MSP

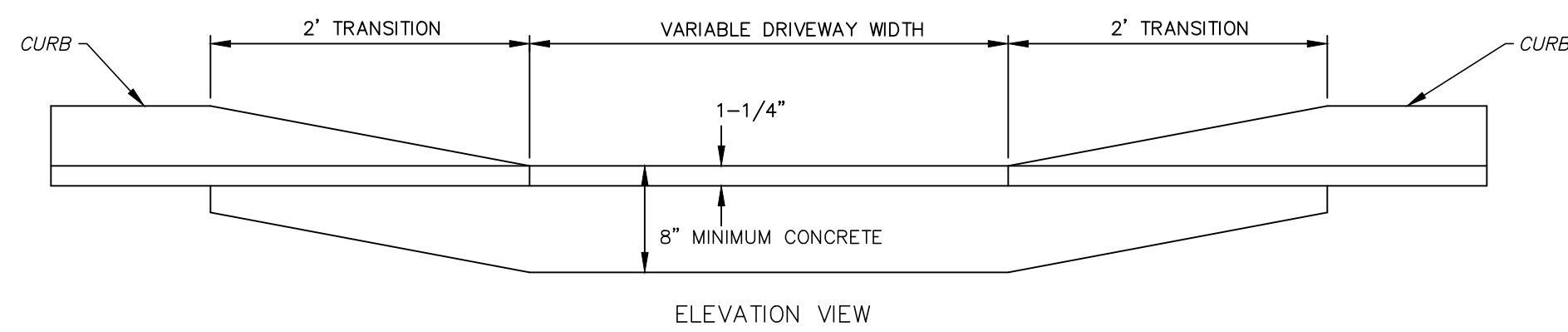
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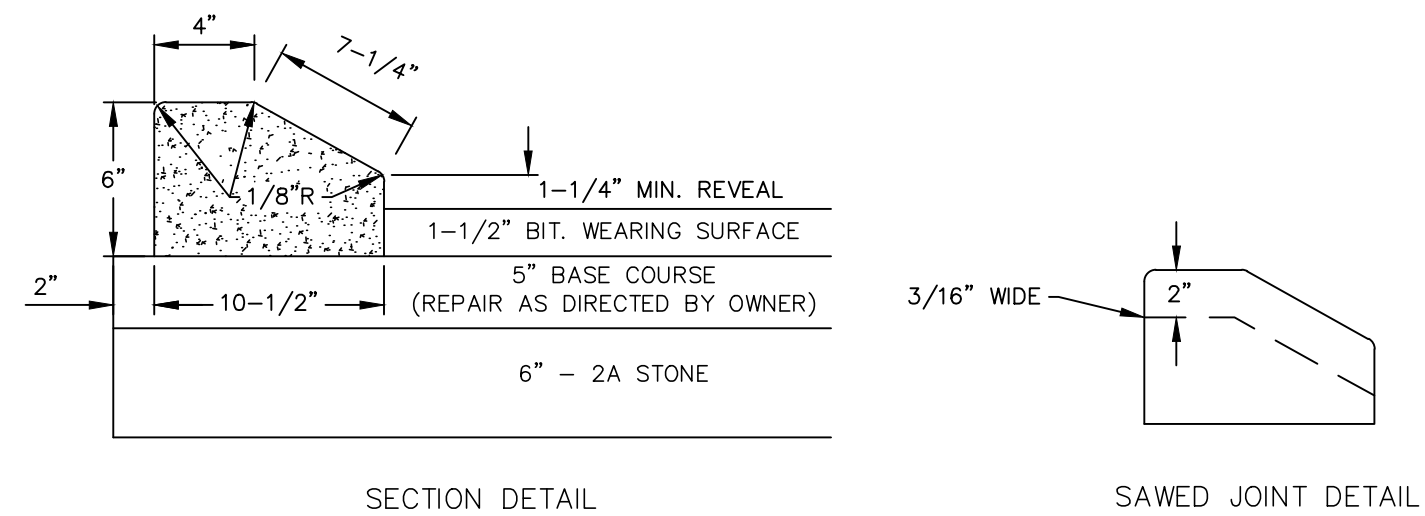
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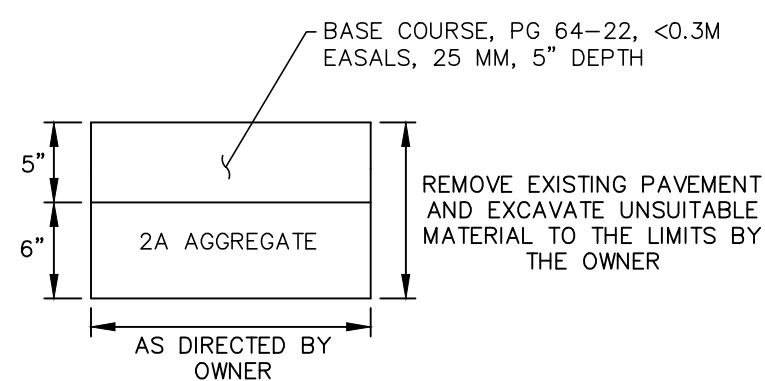
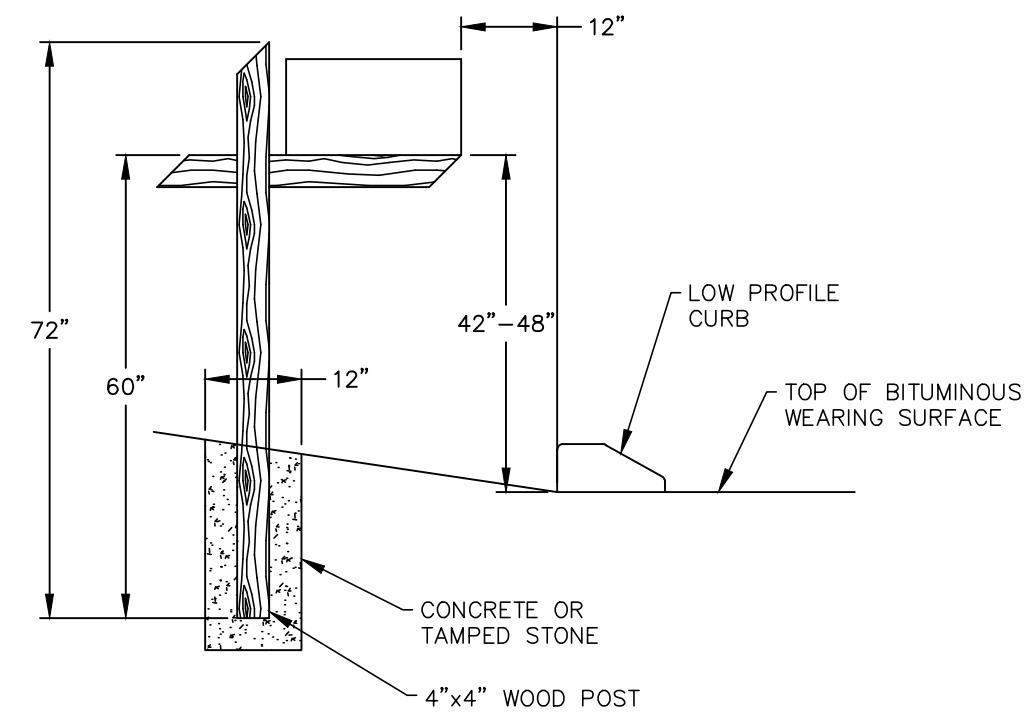




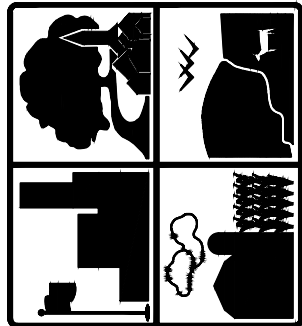
- NOTES:
1. SAW CUT AND REMOVE EXISTING PAVEMENT TO NEAT LINES THAT CONFORM TO FACE OF CURB.
 2. DEPRESSED CURB SHALL MAINTAIN A MINIMUM REVEAL OF 1-1/4" ABOVE FINISH PAVING GRADE.
 3. CONTRACTION JOINTS SHALL BE PLACED EVERY 10' MAX., 4' MIN.
 4. 3/4" PREMOLED EXPANSION JOINT MATERIAL SHALL BE CUT OR CONFORM TO THE CROSS SECTIONAL AREA AND BE PLACED AT STRUCTURES AND AT THE END OF THE DAYS WORK.
 5. EXPANSION JOINT MATERIAL SHALL BE PLACED AT ALL COLD JOINTS.



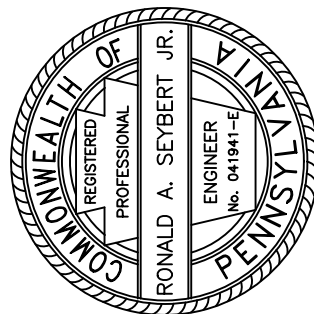
- NOTE:
1. CONTRACTION JOINTS SHALL BE PLACED EVERY 10' MAX, 4'MIN.
 2. 3/4" PREMOLDED EXPANSION JOINT MATERIAL SHALL BE CUT OR CONFORMED TO THE CROSS SECTIONAL AREA AND BE PLACED AT STRUCTURES, EXISTING CURB, AND AT THE END OF EACH WORK DAY.



- NOTES:
1. BASE REPAIR TO BE DETERMINED AND MARKED IN THE FIELD BY THE OWNER AFTER MILLING (2") HAS BEEN PERFORMED BY CONTRACTOR.



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[illegible]ROAD IMPROVEMENT PROJECTS
CONTRACT 2019-C1

DETAILS

DESIGNED BY: RTS
DRAWN BY: MSP
CHECKED BY: RAS
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PATH: V:\Public Works\PMWStaff\Capital Projects\2019 Projects\2019-CIS\Irrl Improvements\dwg