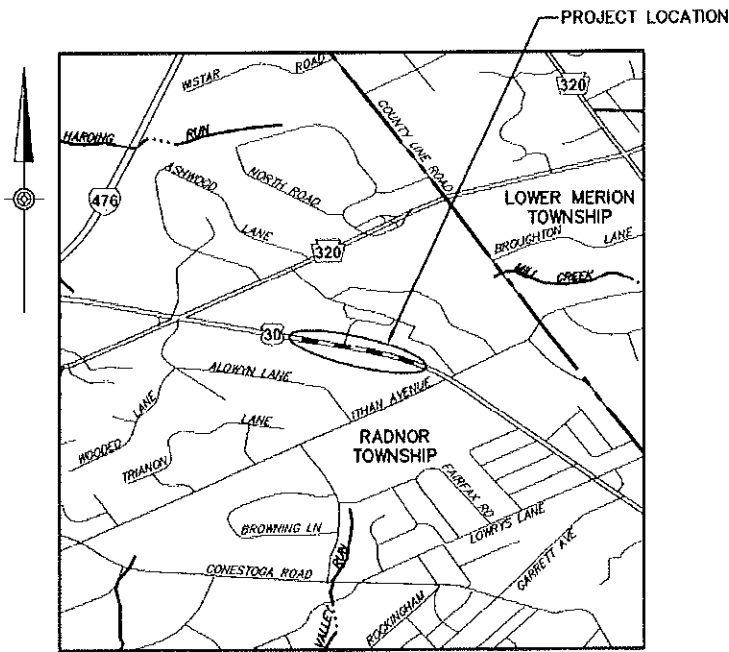
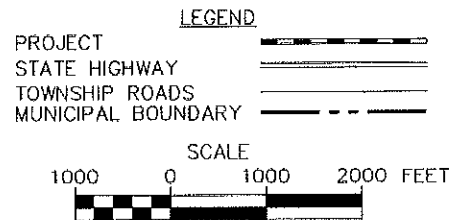


**UTILITY COMPANIES**

- PENNSYLVANIA ONE CALL SYSTEM, INC.  
SERIAL NUMBER:  
20151261122
- AT&T LOCAL SERVICES  
630 FREEDOM BUSINESS CENTER  
SUITE 200  
KING OF PRUSSIA, PA 19406  
(484) 390-2275  
ATTN: STEPHEN BOBB
- AQUA PENNSYLVANIA, INC.  
762 W. LANCASTER AVE.  
BRYN MAWR, PA 19010  
(610) 645-4203  
ATTN: BILL ZAHN
- COMCAST CABLE  
110 SPRINGBROOKE BLVD.  
ASTON, PA 19014  
(610) 499-2388  
ATTN: RICH KAIN
- PECO ENERGY  
1050 W. SWEDSFORD ROAD  
BERWYN, PA 19312  
(215) 956-3121  
ATTN: BILL HENSIL
- SOUTHEASTERN PA  
TRANSPORTATION AUTHORITY  
1234 MARKET STREET 12TH FLOOR  
PHILADELPHIA, PA 19107  
(610) 494-1335  
ATTN: JEFFREY KNUEPPLE
- RADNOR TOWNSHIP  
301 IVEN AVENUE  
WAYNE, PA 19087  
(610) 670-3252  
ATTN: ROBERT ZIENKOWSKI
- VERIZON PENNSYLVANIA, INC.  
180 SHEREE BLVD, SUITE 2100  
EXTON, PA 19341  
(610) 280-2154  
ATTN: SUZETTE WALKER



**LOCATION MAP**



**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.
- MCMAHON 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 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 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.
- IF THE PROPOSED IMPROVEMENTS REQUIRE THE RELOCATION OF PENNDOT FIBER OPTIC CABLE(S), THE PERMITEE IS RESPONSIBLE FOR THE RELOCATION OF THE FIBER AND THE COSTS ASSOCIATED WITH THE RELOCATION.
- ALL 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 PERMITEE.
- 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.
- 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.
- 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.
- THE PERMITEE IS RESPONSIBLE FOR THE COORDINATION OF RELOCATING ANY CONFLICTING UTILITIES WHICH ARE A RESULT OF THESE IMPROVEMENTS.
- THE CONTRACTOR MUST COMPLY WITH ALL U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS AS REVISED 1995 (OSHA 2226) ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH PENNDOT SPECIFICATION PUBLICATION 408/2011, LATEST REVISION AND SHALL MEET OR EXCEED THE LOCAL MUNICIPALITY'S STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- ALL WORK PERFORMED WITHIN THE STATE LEGAL RIGHT-OF-WAY MUST BE IN ACCORDANCE WITH THE PLANS AND THE FOLLOWING PENNDOT PUBLICATIONS (LATEST REVISION):  
-PUBLICATION 408, SPECIFICATIONS  
-PUBLICATION 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15)  
-PUBLICATION 72, STANDARDS FOR ROADWAY CONSTRUCTION  
-PUBLICATION 111M, TRAFFIC CONTROL-PAVEMENT MARKINGS AND SIGNING STANDARDS  
-PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES
- A PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN PENNDOT, THE MUNICIPALITY, THE APPLICANT, THE CONTRACTOR, THE ENGINEER, AND ALL UTILITY COMPANIES TO CLARIFY AND COORDINATE ALL CONSTRUCTION DETAILS.
- ALL CONSTRUCTION DETAILED ITEMS WILL REQUIRE SHOP DRAWINGS TO BE SUBMITTED TO MCMAHON 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.

**GENERAL NOTES CONT'D**

- IT IS THE RESPONSIBILITY OF THE PERMITEE 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.
- BARRICADES, LIGHTING DEVICES, AND OTHER TRAFFIC CONTROL MEASURES SHALL BE PLACED IN ACCORDANCE WITH AND SHALL CONFORM TO PENNDOT SPECIFICATIONS PUBLICATION 408/2011, LATEST REVISION, M.U.T.C.D. STANDARDS, AND PENNDOT PUBLICATION 213, "TEMPORARY TRAFFIC CONTROL GUIDELINES", 67 PA CODE, CHAPTER 212, JUNE 2014, OR MOST RECENT EDITION.
- ALL TRAFFIC CONTROL/ MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH APPLICABLE FIGURES IN PENNDOT PUBLICATION 213, TITLE 67, CHAPTER 212, "TEMPORARY TRAFFIC CONTROL GUIDELINES", APRIL 2010 OR MOST RECENT EDITION.
- 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. ALL GUIDE RAIL THAT IS REMOVED AND NOT TO BE REUSED SHALL BE RETURNED TO THE MUNICIPALITY OR TO THE LOCAL PENNDOT MAINTENANCE DISTRICT OFFICE BY THE CONTRACTOR.
- ALL EXISTING PAVEMENT MARKINGS WHICH ARE NO LONGER APPROPRIATE SHALL BE ERADICATED BY THE PERMITEE. THE PERMITEE SHALL PLACE ALL REQUIRED NEW PAVEMENT MARKINGS.
- ALL TRAFFIC LANE LINES (LONG & SHORT), PEDESTRIAN CROSSWALKS, GORE AREAS, MEDIAN AREAS, LEGENDS, AND STOP BARS WITHIN THE LEGAL RIGHT-OF-WAY AND TRAFFIC SIGNAL EASEMENTS SHALL BE COMPRISED OF HOT THERMOPLASTIC PAVEMENT MARKINGS IN BITUMINOUS PAVEMENT AREAS PER PENNDOT PUBLICATION 408/2011, SECTION 0960. ALL OTHER PAVEMENT MARKINGS SHALL BE COMPRISED OF WATERBORNE PAVEMENT MARKINGS PER PENNDOT PUBLICATION 408/2011, SECTION 0962.
- 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 INLETS WITHIN THE STATE MAINTAINED RIGHT-OF-WAY MUST HAVE STRUCTURAL STEEL BICYCLE SAFE GRATES.
- 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.
- 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.
- 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 408/2011 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.
- THE WORK ASSOCIATED WITH UNDERCUTTING AND/OR SUBGRADE STABILIZATION INCLUDES CLASS 1A EXCAVATION, PLACEMENT OF GEOTEXTILE, CLASS 4, AND MODIFIED STONE (AASHTO NO. 48 AND NO. 49 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 DELAWARE 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, EXCEPT 6" REVEAL WITHIN PARKING AREAS AS NOTED.
- ANY DAMAGED OR SUBSTANDARD CURB WITHIN THE LIMITS OF WORK SHALL BE REPLACED AS NECESSARY.
- SAWCUT LINE LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DEEMED NECESSARY BY A PENNDOT REPRESENTATIVE.
- ROADWAY IMPROVEMENTS ARE INCLUDED UNDER THE NPDES PERMIT FOR THE SITE PLANS. FOR ALL EROSION AND SEDIMENT POLLUTION CONTROL MEASURES REFER TO THE SITE EROSION AND SEDIMENT CONTROL PLAN, PREPARED NAVE NEWELL, INC.
- THE EXISTING TOPOGRAPHIC INFORMATION AND BASE SURVEY INFORMATION WAS PROVIDED BY NAVE NEWELL, INC. FIELD SURVEY PERFORMED AUGUST 8, 2011. 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

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	-	3 OF 12
RADNOR TOWNSHIP				
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**GENERAL NOTES CONT'D**

- IF THERE ARE ANY DIFFERENCES BETWEEN THE FIELD CONDITIONS AND BASE SURVEY SHOWN ON THE PLANS.
- THE LEGAL RIGHT-OF-WAY FOR SR 0030 IS BASED ON DRAWINGS FOR CONSTRUCTION AND CONDEMNATION OF RIGHT-OF-WAY FOR ROUTE NO. 142 SECTION NO. 17 IN DELAWARE COUNTY, SIGNED MARCH 24, 1952 AND RECORDED ON NOVEMBER 10, 1953 IN THE DELAWARE COUNTY RECORDER'S OFFICE IN PLAN BOOK 2, PAGE 11.
  - LANCASTER AVENUE - SR 0030 WAS PREVIOUSLY KNOW AS LR 00142.
  - THE POSTED SPEED LIMIT FOR S.R. 0030 IS 25 MPH, AND THE DESIGN SPEED IS 30 MPH.
  - DRAINAGE INSTALLED BY THIS PERMIT IS THE PRIMARY RESPONSIBILITY OF THE LOCAL GOVERNMENT TO CONTINUALLY MAINTAIN OR REPLACE.
  - PRIVATE CO-PERMITEE IS RESPONSIBLE FOR PROVIDING FUNDING TO THE LOCAL GOVERNMENT TO OFFSET FUTURE MAINTENANCE COSTS ASSOCIATED WITH THE PERMITTED DRAINAGE FACILITIES.
  - ALL PROPOSED PEDESTRIAN FACILITIES REFLECTED ON THESE PLANS, 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) AND THE 2010 ADA STANDARDS. PENNDOT DESIGN MANUAL PART 2, CHAPTER 6, AND PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION (PUBLICATION 72M, RC-67M) PROVIDE GUIDANCE ON ADA ACCESSIBLE DESIGN FOR PEDESTRIAN FACILITIES AND CAN BE UTILIZED FOR REFERENCE.
  - IT IS THE RESPONSIBILITY OF THE PERMITEE TO MAKE ADJUSTMENTS TO THE AFFECTED DRIVEWAYS WITHIN THE LIMITS OF WORK. THE PERMITEE 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
  - ALL DRIVEWAY ADJUSTMENTS SHALL CONSIST OF 6" REINFORCED CEMENT CONCRETE APRON/SIDEWALK OVER 6" SUBBASE (NO. 2A) AND 1.5" SAND HMA WEARING COURSE, OVER 2.5" SAND HMA BINDER COURSE, OVER 4" SAND HMA BASE COURSE, OVER 6" SUBBASE (NO. 2A) BEHIND THE SIDEWALK. SEE DETAIL SHEET FOR MORE INFORMATION.
  - 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 WITHIN THE PAVEMENT WIDENING WILL BE RESET TO THE PROPOSED FINISHED GRADE.
  - FORM CONCRETE IN THE BOTTOM OF ALL PROPOSED DRAINAGE STRUCTURES TO CHANNEL FLOW TOWARD THE OUTLET PIPE ACCORDING TO RC-45M.
  - THE CONTRACTOR IS RESPONSIBLE FOR NOTCHING PAVEMENT JOINTS AND SEALING WITH PG 64-22, IN ACCORDANCE WITH PENNDOT SPECIFICATION 408, SECTION 409 AND 489.
  - DEMOLISH AND REMOVE BUILDINGS AND STRUCTURES MARKED **D** AS LUMP SUM ITEMS. THE COSTS SHALL BE THE RESPONSIBILITY OF THE PERMITEE.

**UNDER PENNDOT REVIEW**  
**PLANS SUBJECT TO CHANGE**  
DATE: 10/8/2015

**NOT FOR CONSTRUCTION**

**RECORD OF EXISTING TYPES OF ROADWAY PAVEMENT**

ROUTE	TYPE
S.R. 0030 LANCASTER AVENUE SEGMENT/OFFSET: 0080/1869 TO 0080/2351	ASPHALT SURFACE COURSES, 4.5" DEPTH CONCRETE, 10.0" DEPTH (1935)
S.R. 0030 LANCASTER AVENUE SEGMENT/OFFSET: 0080/2351 TO 0080/2590	ASPHALT SURFACE COURSES, 4.5" DEPTH BITUMINOUS CONCRETE BASE COURSE, 8.0" DEPTH (1995) 6" SUBBASE
S.R. 0030 LANCASTER AVENUE SEGMENT/OFFSET: 0080/2590 TO 0080/2819	ASPHALT SURFACE COURSES, 1.5" DEPTH CONCRETE, 10.0" DEPTH (1935)

NOTE: THE DEPTHS OF MATERIAL SHOWN ARE FOR DESIGN PURPOSES ONLY. ANY RISK OF UNANTICIPATED COSTS ASSOCIATED WITH DIFFERENCES BETWEEN THE LISTED DEPTHS AND THE ACTUAL DEPTHS SHALL BE ACCEPTED BY THE CONTRACTOR.

**SYMBOL LEGEND**

- EXISTING JUNCTION BOX
- EXISTING CLEAN OUT
- EXISTING WATER VALVE
- EXISTING GAS VALVE
- EXISTING MANHOLE
- EXISTING MANHOLE TO BE RESET
- PROPOSED MANHOLE
- EXISTING FIRE HYDRANT
- RELOCATED FIRE HYDRANT
- EXISTING TELEPHONE CONDUIT
- EXISTING GAS MAIN/PIPELINE
- EXISTING SANITARY SEWER MAIN
- EXISTING WATER MAIN
- EX. UNDERGROUND ELECTRIC LINE
- EXISTING STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- PROPOSED PAVEMENT BASE DRAIN
- EXISTING STORM INLET
- PROPOSED STORM INLET
- EXISTING EDGE OF PAVEMENT
- PROPOSED EDGE OF PAVEMENT
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- PROPOSED CONSTRUCTION BASELINE
- EXISTING PROPERTY LINE
- PARKING METER
- EXISTING BOLLARD
- EXISTING TREE OR SHRUB
- EXISTING LANDSCAPING GROUND LIGHT
- EXISTING STREET LIGHT POST
- EXISTING FLAG POLE
- EXISTING IRON PIN FOUND
- EXISTING MAILBOX
- EXISTING SIGN
- PROPOSED SIGN
- EXISTING CURB
- PROPOSED CURB
- EXISTING FENCE/RAILING
- EXISTING TRAFFIC SIGNAL
- PROPOSED MAST ARM
- EXISTING LUMINARIE
- EXISTING GUY WIRE
- EX. PECO OR BELL UTILITY POLE
- PROPOSED OR RELOCATED UTILITY POLE

**PAVEMENT LEGEND**

- PROPOSED FULL DEPTH BITUMINOUS PAVEMENT
- DRIVEWAY ADJUSTMENT
- TOPSOIL AND SEEDING
- PROPOSED CONCRETE CEMENT SIDEWALK
- SITE WORK COMPLETED DURING PHASE 1 OF VILLANOVA'S CID PROJECT

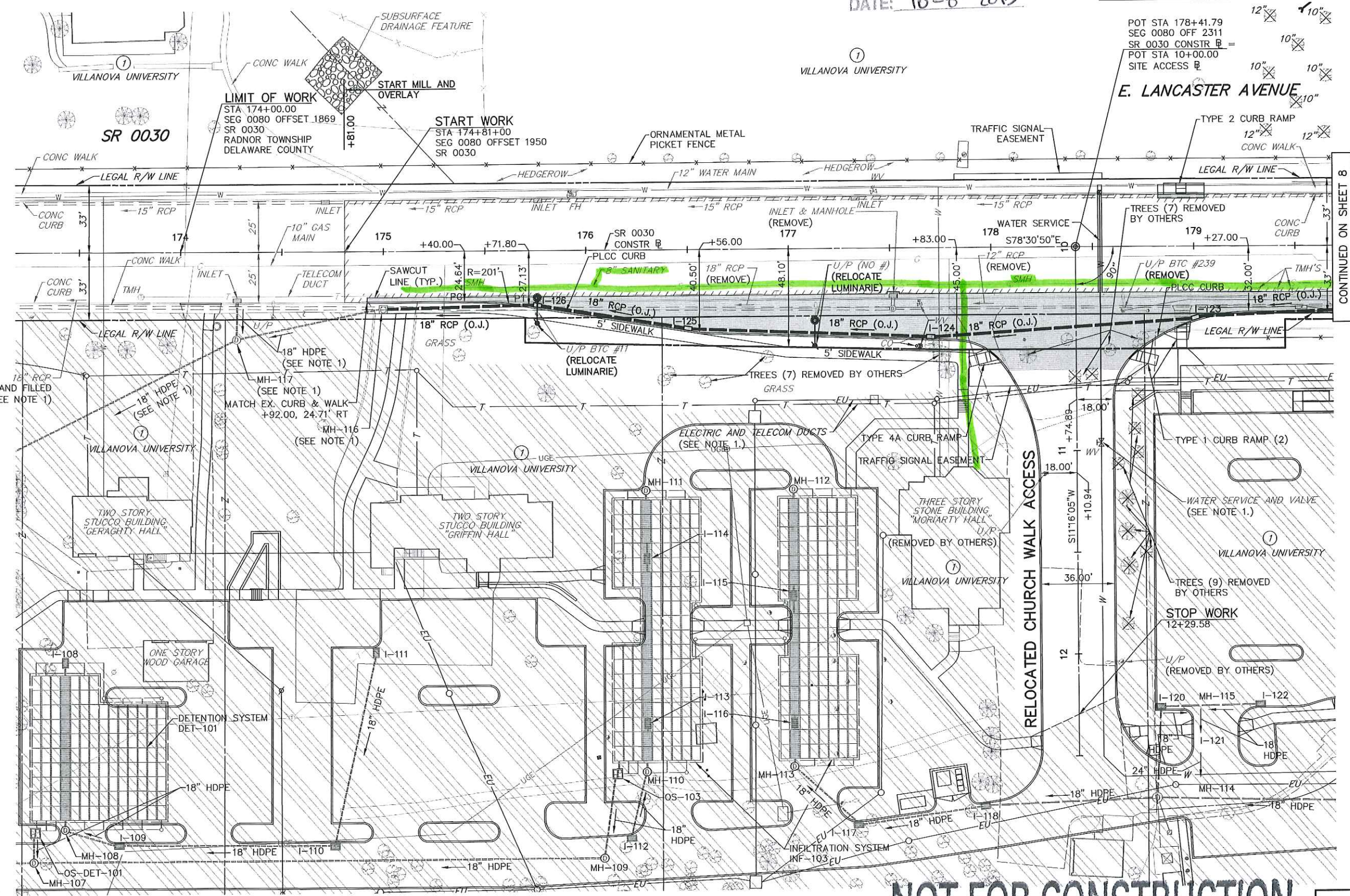
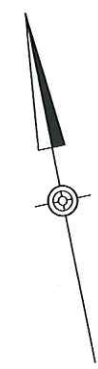


THE PERMITEE IS REQUIRED TO PROVIDE THE CONTRACTOR WITH COPIES OF THE MOST CURRENT STANDARD DRAWINGS FOR THE APPROPRIATE PENNDOT PUBLICATION.



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	-	7 OF 12
RADNOR TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	

UNDER PENNDOT REVIEW  
 PLANS SUBJECT TO CHANGE  
 DATE: 10-8-2015



CONTINUED ON SHEET 8

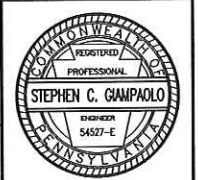
- LEGEND**
- PROPOSED FULL DEPTH BITUMINOUS PAVEMENT
  - MILLING AND PROPOSED BITUMINOUS OVERLAY
  - SITE WORK COMPLETED DURING PHASE 1 OF VILLANOVA'S CID PROJECT
  - CURB RAMP (SEE ADA CURB RAMP PLAN)
  - REMOVE EXISTING TREE

**NOTE:**  
 1. WORK TO BE COMPLETED DURING PHASE 1 OF VILLANOVAS CID PROJECT (EPS APPLICATION NO. 88442).



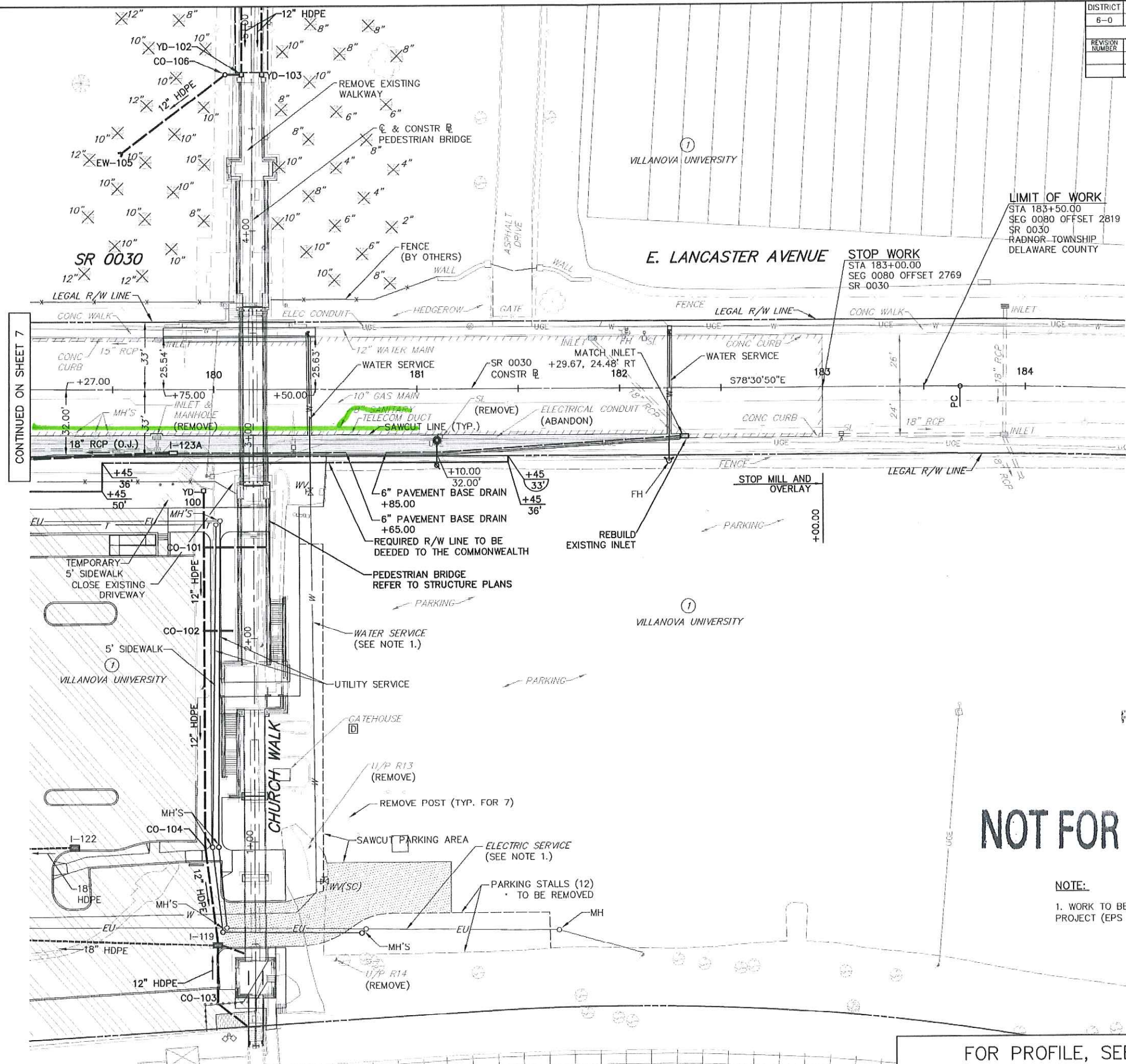
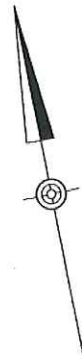
NOT FOR CONSTRUCTION

FOR PROFILE, SEE SHEETS 9 & 11





DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	-	8 OF 12
RADNOR TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	



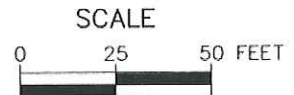
**LIMIT OF WORK**  
 STA 183+50.00  
 SEG 0080 OFFSET 2819  
 SR 0030  
 RADNOR TOWNSHIP  
 DELAWARE COUNTY

**STOP WORK**  
 STA 183+00.00  
 SEG 0080 OFFSET 2769  
 SR 0030

UNDER PENNDOT REVIEW  
 PLANS SUBJECT TO CHANGE  
 DATE: 10-8-2015

**NOT FOR CONSTRUCTION**

**NOTE:**  
 1. WORK TO BE COMPLETED DURING PHASE 1 OF VILLANOVA'S CID PROJECT (EPS APPLICATION NO. 88442).



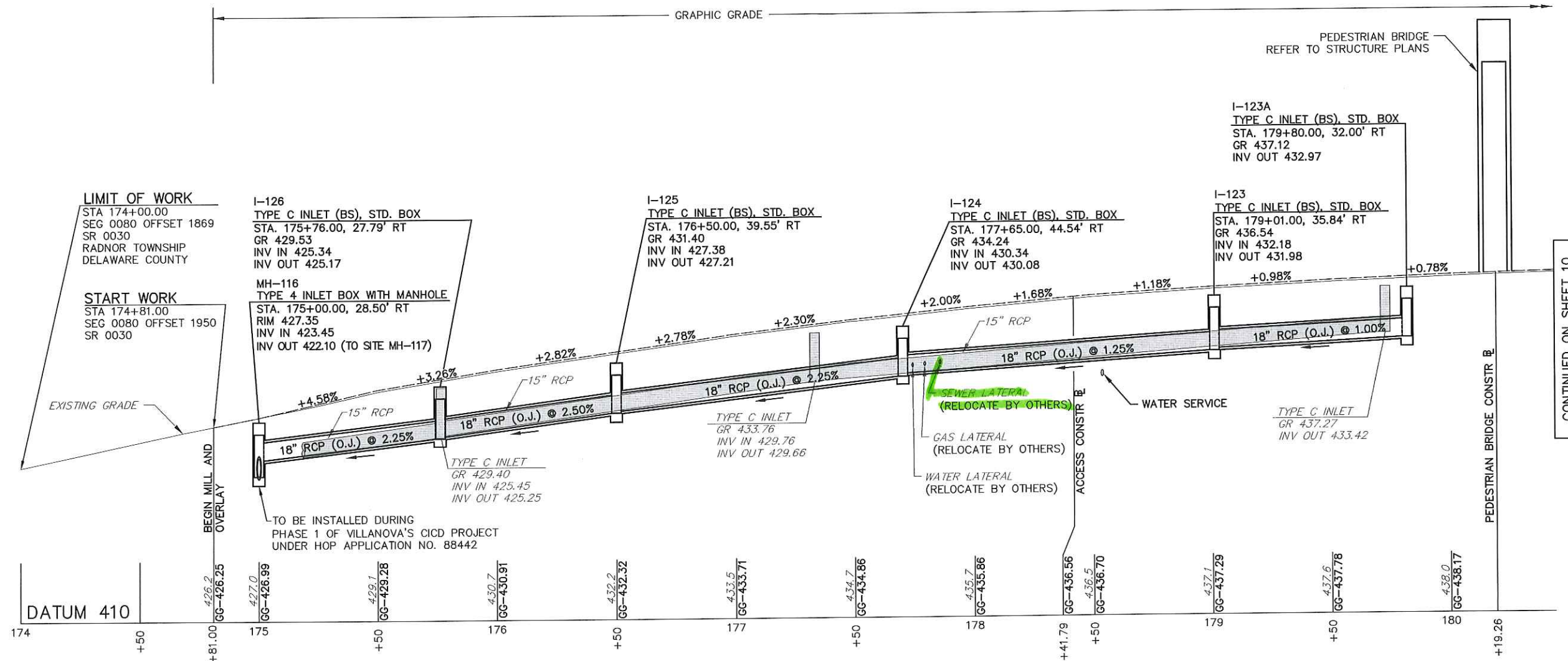
FOR PROFILE, SEE SHEET 10

- LEGEND**
- PROPOSED FULL DEPTH BITUMINOUS PAVEMENT
  - MILLING AND PROPOSED BITUMINOUS OVERLAY
  - DRIVEWAY ADJUSTMENT
  - SITE WORK COMPLETED DURING PHASE 1 OF VILLANOVA'S CID PROJECT
  - CURB RAMP (SEE ADA CURB RAMP PLAN)
  - 6" PAVEMENT BASE DRAIN
  - REMOVE EXISTING TREE

CONTINUED ON SHEET 7



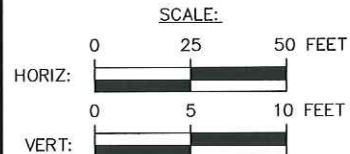
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	-	9 OF 12
RADNOR TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	



- NOTES:**
1. ALL PROPOSED STORM PIPE DESIGNATED AS OPEN JTS SHALL BE OPEN JOINT PIPE.
  2. ALL INLETS DESIGNATED AS (BS) SHALL HAVE BICYCLE SAFE GRATES.

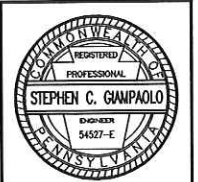
SR 0030 LANCASTER AVENUE PROFILE

UNDER PENNDOT REVIEW  
 PLANS SUBJECT TO CHANGE  
 DATE: 10-8-2015



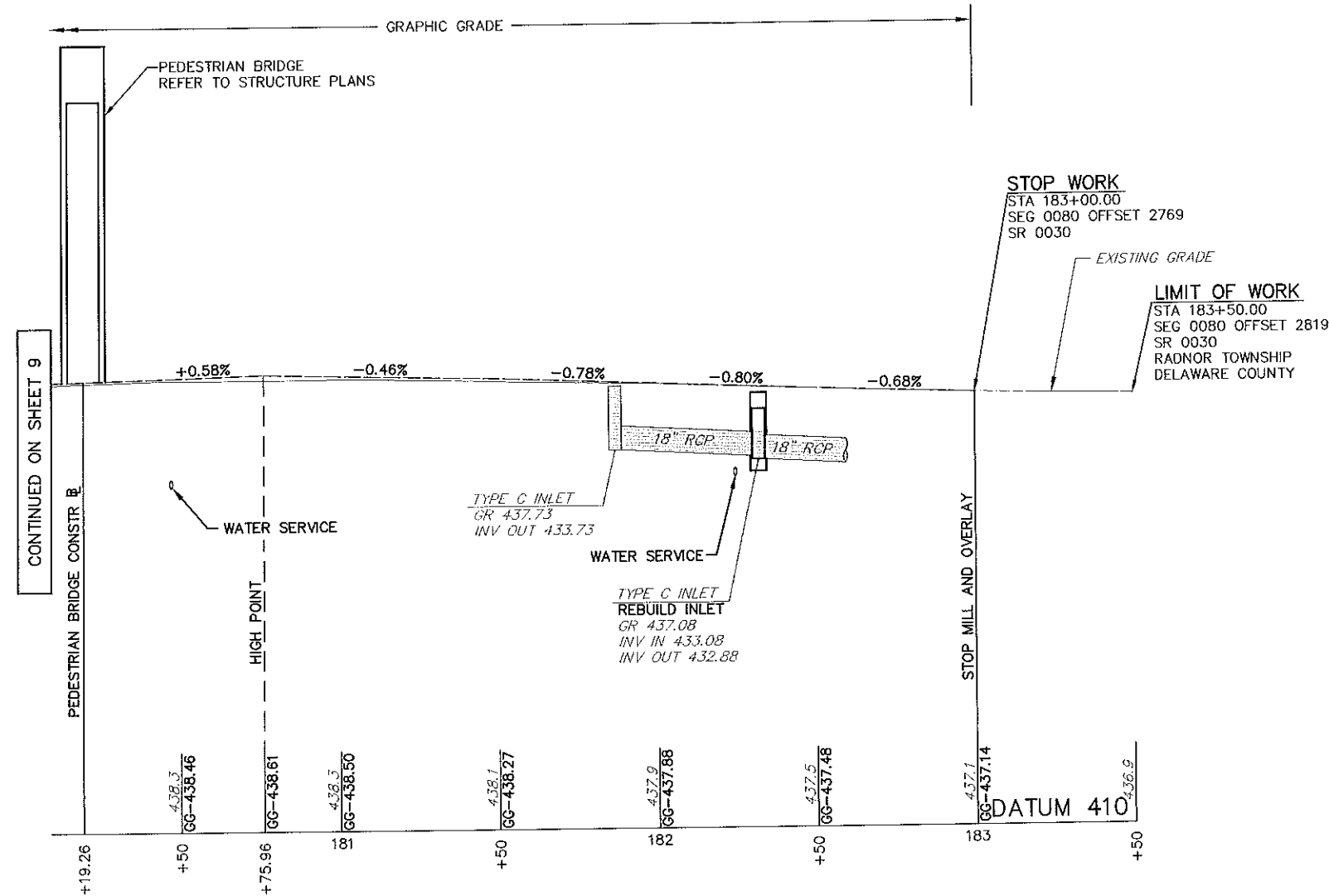
**NOT FOR CONSTRUCTION**

FOR PLAN SEE SHEET 7



CONTINUED ON SHEET 10

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030		10 OF 12
RADNOR TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	



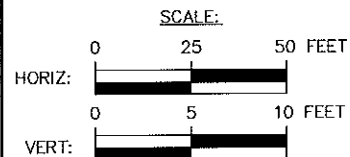
**NOTES:**

1. ALL PROPOSED STORM PIPE DESIGNATED AS OPEN JTS SHALL BE OPEN JOINT PIPE.
2. ALL INLETS DESIGNATED AS (BS) SHALL HAVE BICYCLE SAFE GRATES.

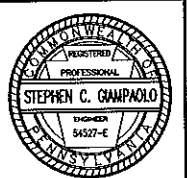
SR 0030 LANCASTER AVENUE PROFILE

UNDER PENNDOT REVIEW  
 PLANS SUBJECT TO CHANGE  
 DATE: 10-8-2015

**NOT FOR CONSTRUCTION**



FOR PLAN SEE SHEET 8





CROSS SECTIONS

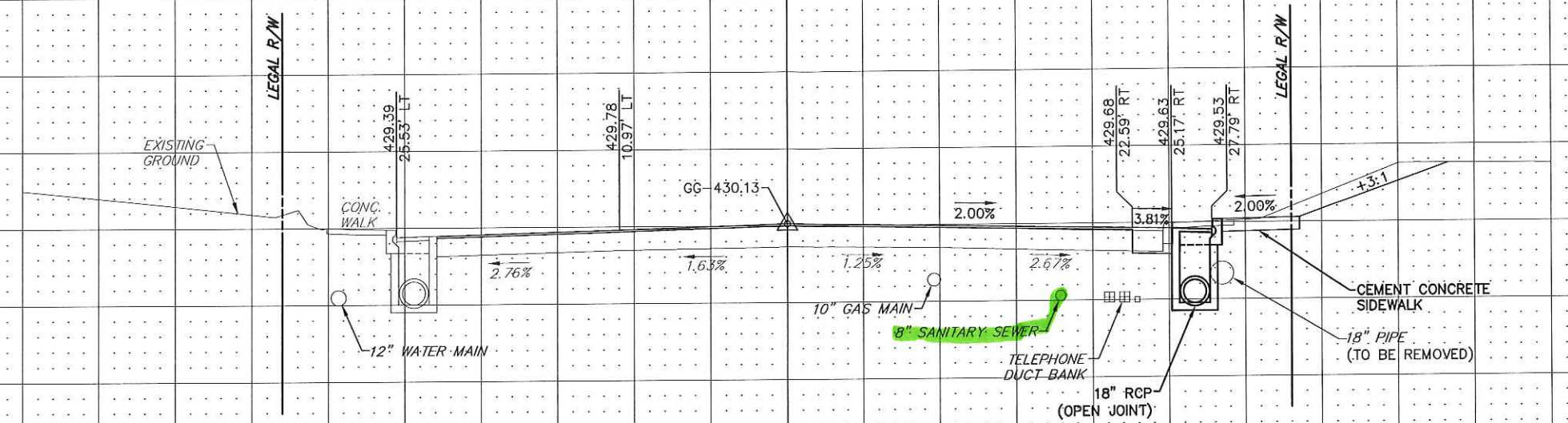
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

SR 0030

175+76

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.-

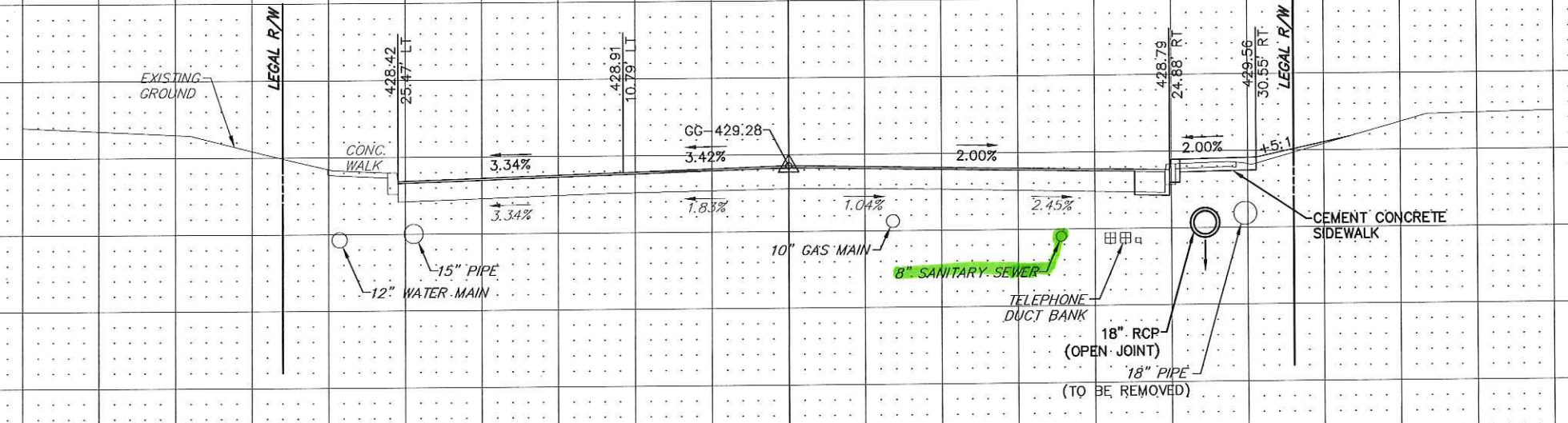
435  
430  
425



175+50

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.-

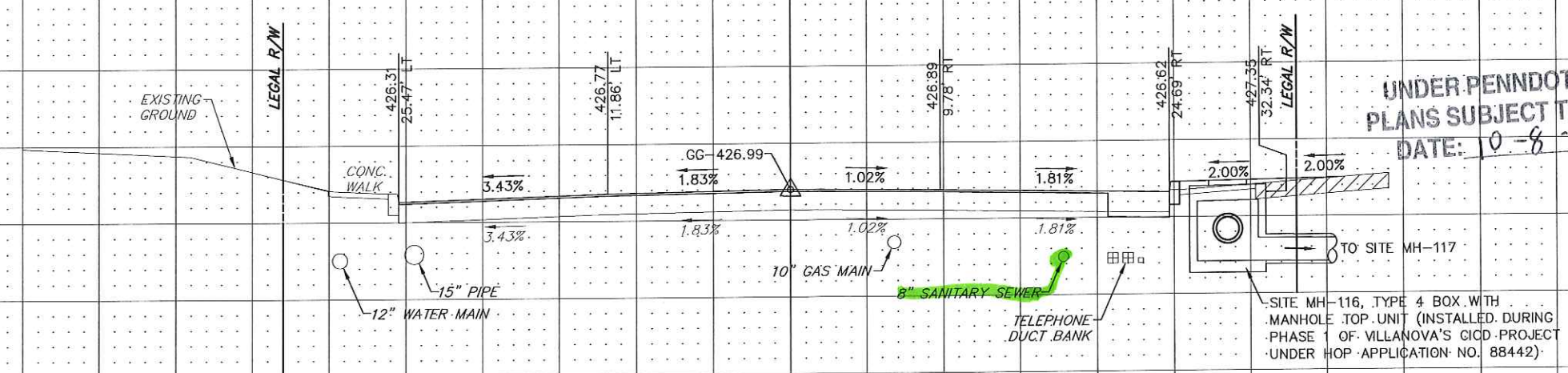
435  
430  
425



175+00

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.-

435  
430  
425



UNDER PENNDOT REVIEW  
PLANS SUBJECT TO CHANGE  
DATE: 10-8-2015

STA 174+81.00  
START WORK  
STA 174+00.00  
LIMIT OF WORK

SITE MH-116, TYPE 4 BOX WITH  
MANHOLE TOP UNIT (INSTALLED DURING  
PHASE 1 OF VILLANOVA'S C/D PROJECT  
UNDER HOP APPLICATION NO. 88442)

**NOT FOR CONSTRUCTION**

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



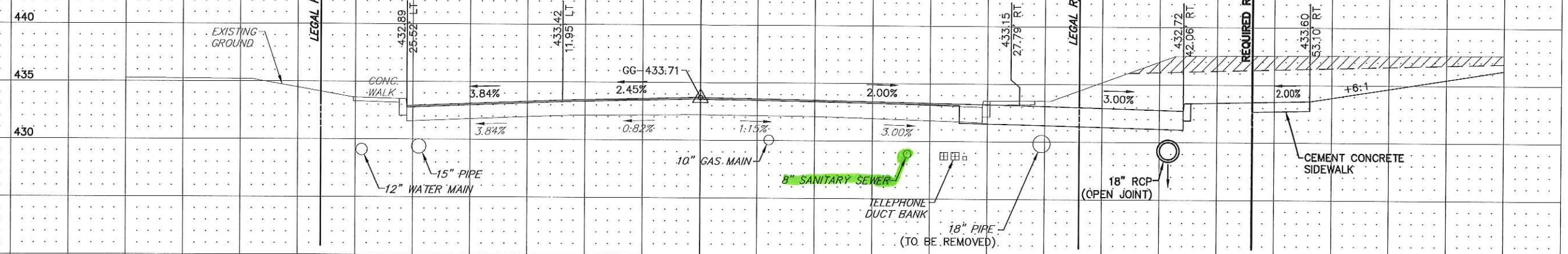
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	-	3 OF 8

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

SR 0030

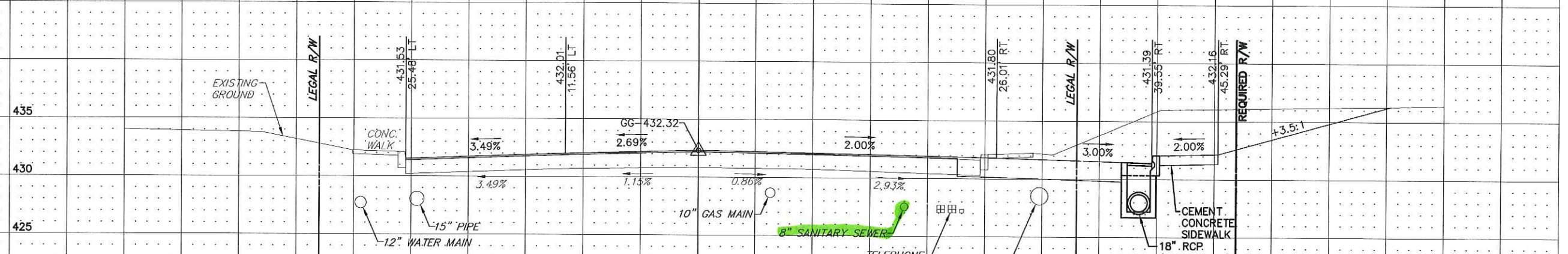
177+00

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.



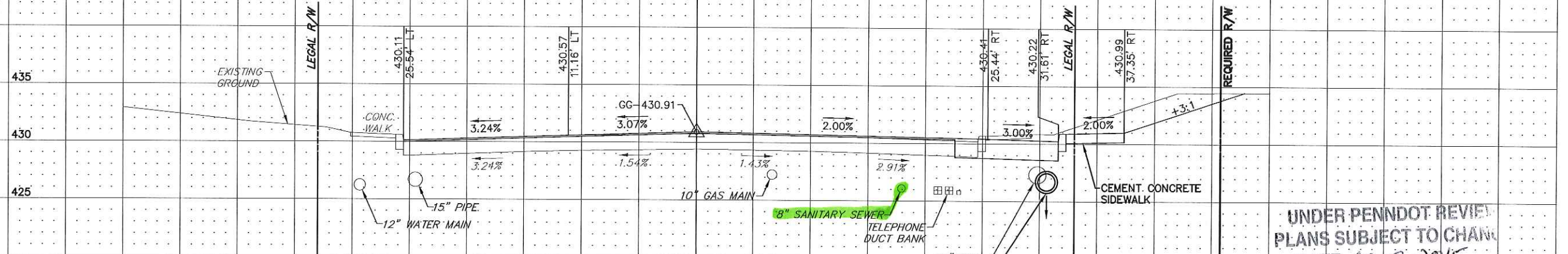
176+50

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.



176+00

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.



UNDER PENNDOT REVIEW  
 PLANS SUBJECT TO CHANGE  
 DATE: 10-8-2015

NOT FOR CONSTRUCTION

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



CROSS SECTIONS

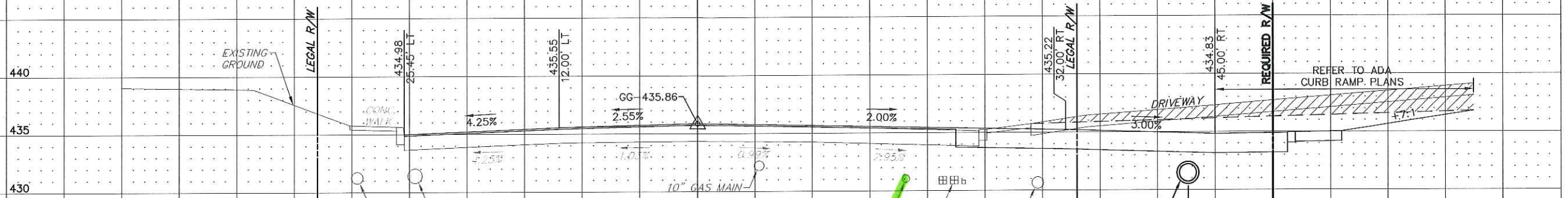
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UNDER PENNDOT REVIEW  
PLANS SUBJECT TO CHANGE  
DATE: 10-8-2015

NOT FOR CONSTRUCTION SR 0030

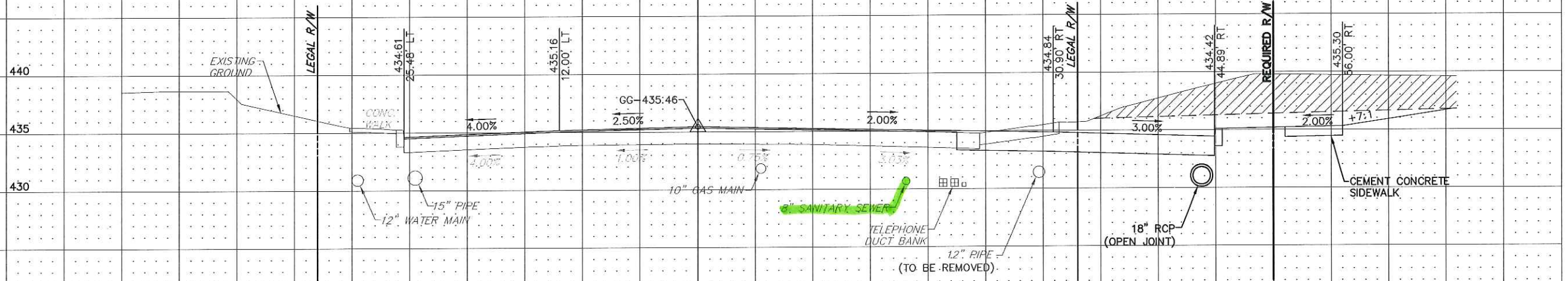
178+00

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.



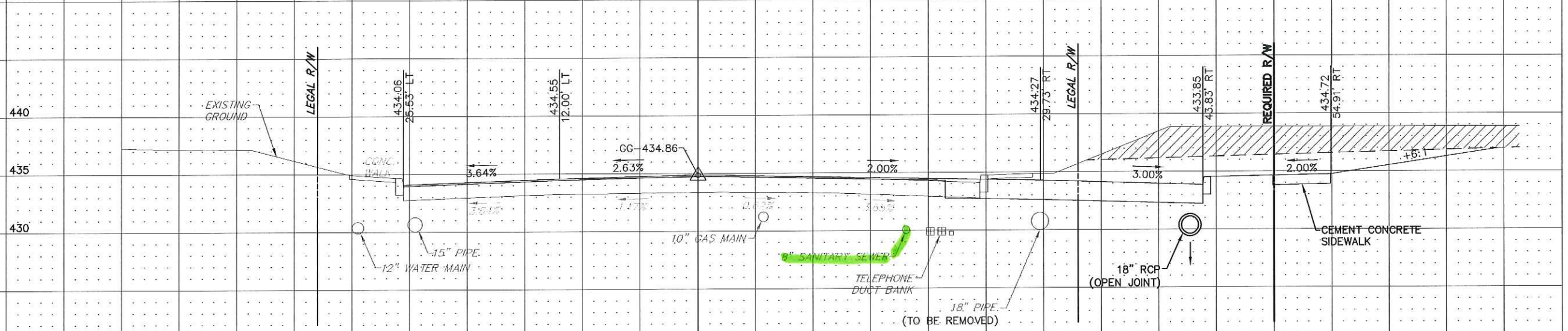
177+80

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.



177+50

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.





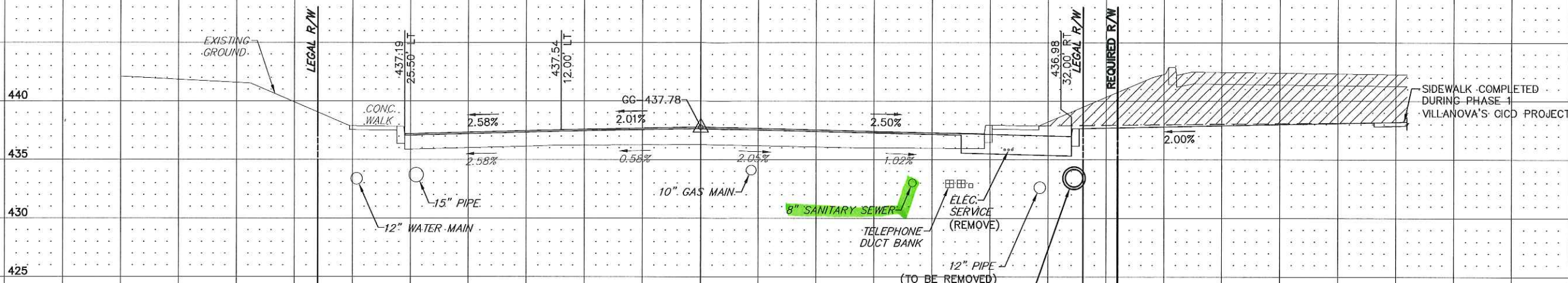
CROSS SECTIONS

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

SR 0030

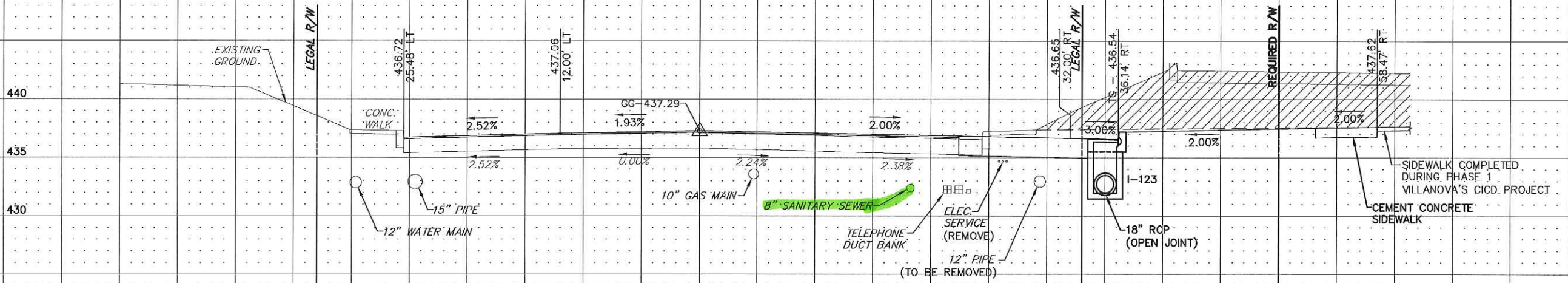
179+50

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.



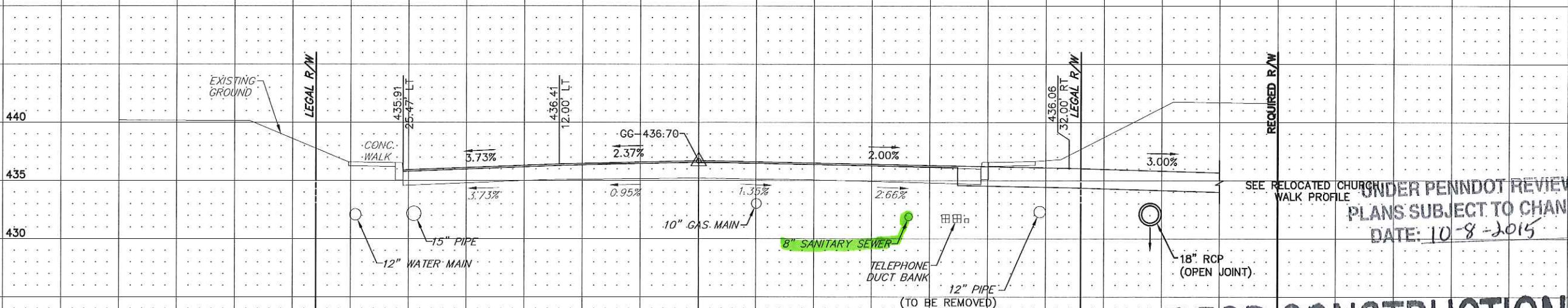
179+00

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.



178+50

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.



NOT FOR CONSTRUCTION



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	-	6 OF 8

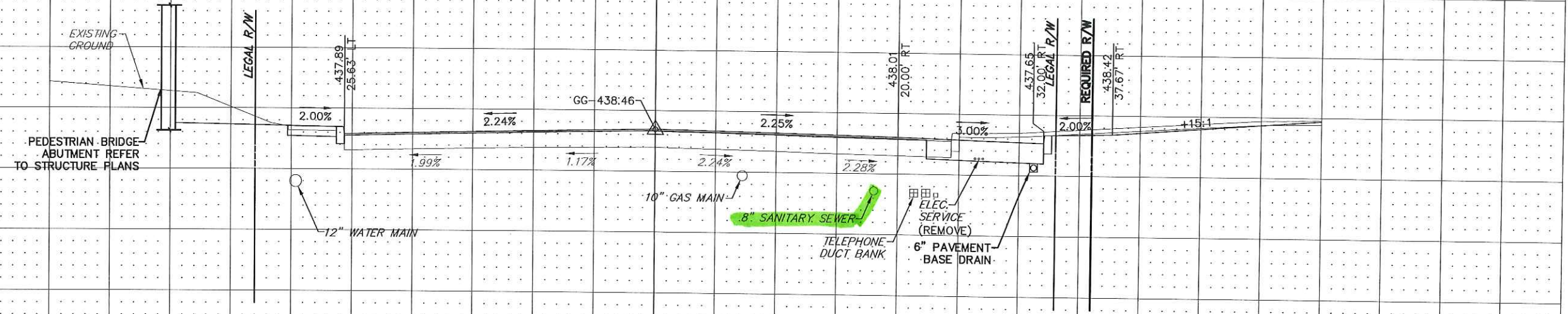
CROSS SECTIONS 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

SR 0030

180+50

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.

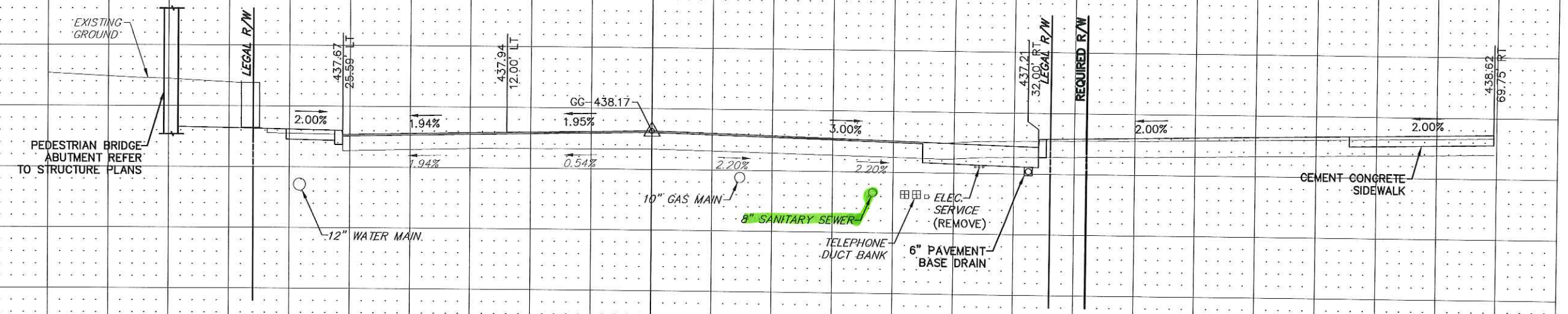
440  
435  
430



180+00

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.

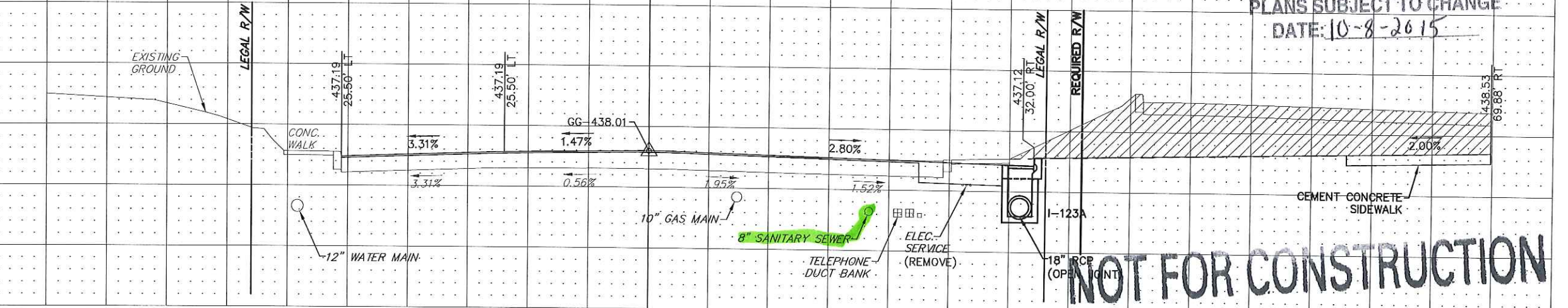
440  
435  
430



179+80

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.

445  
440  
435



UNDER PENNDOT REVIEW  
PLANS SUBJECT TO CHANGE  
DATE: 10-8-2015

NOT FOR CONSTRUCTION

SCALE: 1 INCH = 5 FEET



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

CROSS SECTIONS

SR 0030

182+00

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.-

181+50

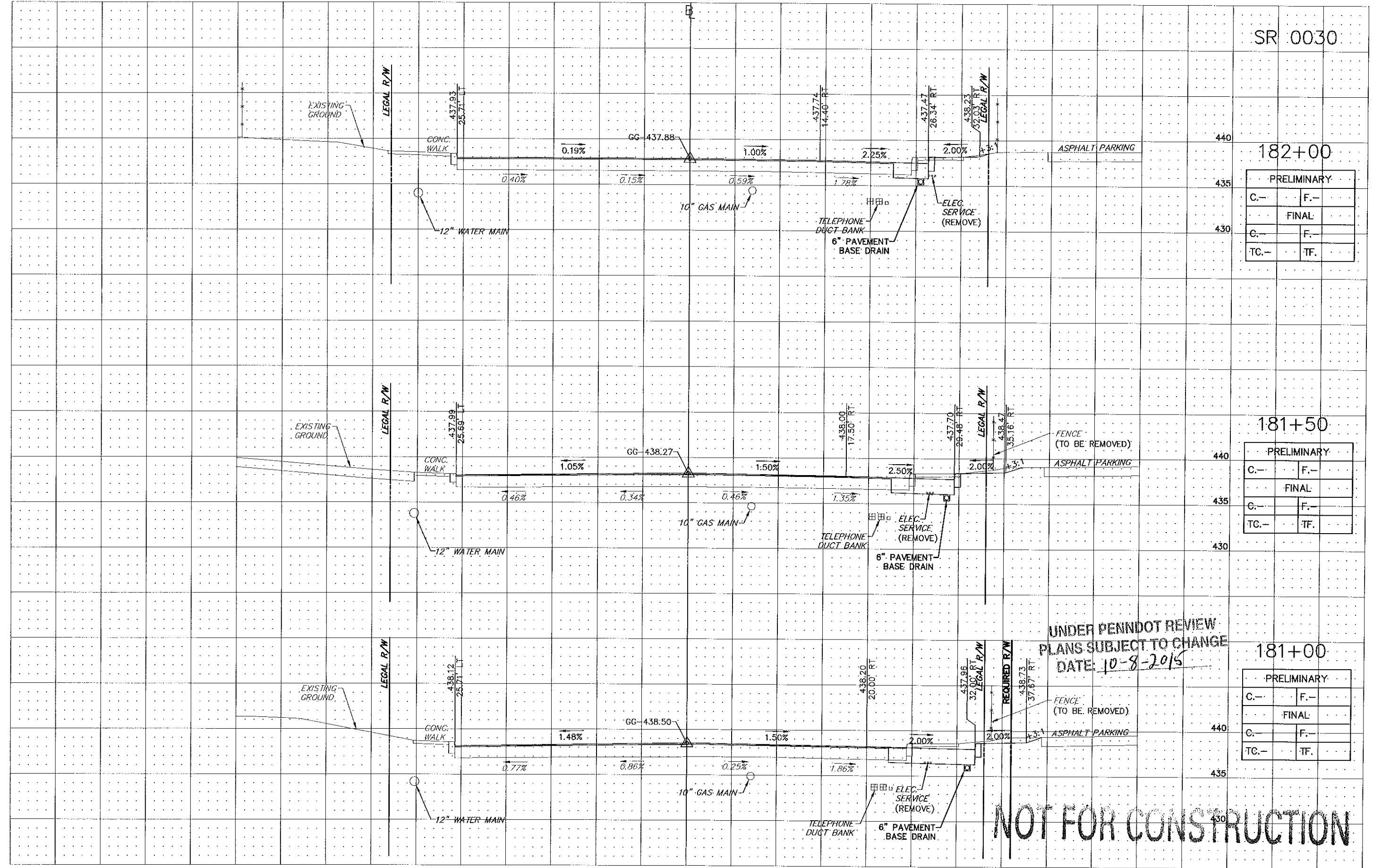
PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.-

181+00

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.-

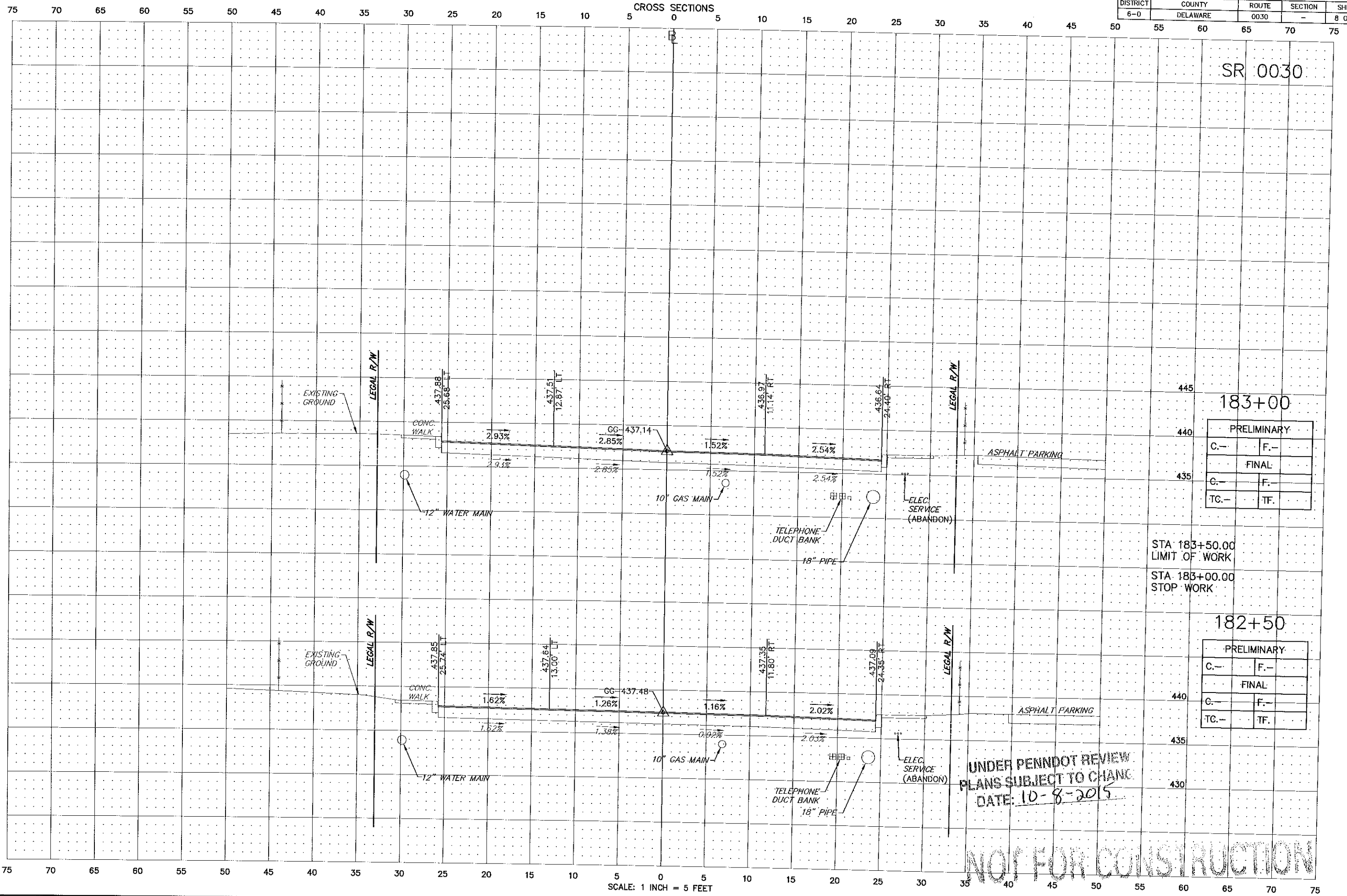
UNDER PENNDOT REVIEW  
PLANS SUBJECT TO CHANGE  
DATE: 10-8-2015

NOT FOR CONSTRUCTION





DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	0030	-	8 OF 8



SR 0030

183+00

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.-

STA 183+50.00  
LIMIT OF WORK  
STA 183+00.00  
STOP WORK

182+50

PRELIMINARY	
C.-	F.-
FINAL	
C.-	F.-
TC.-	TF.-

UNDER PENNDOT REVIEW  
PLANS SUBJECT TO CHANGE  
DATE: 10-8-2015

NOT FOR CONSTRUCTION