

THE STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY
UNITS

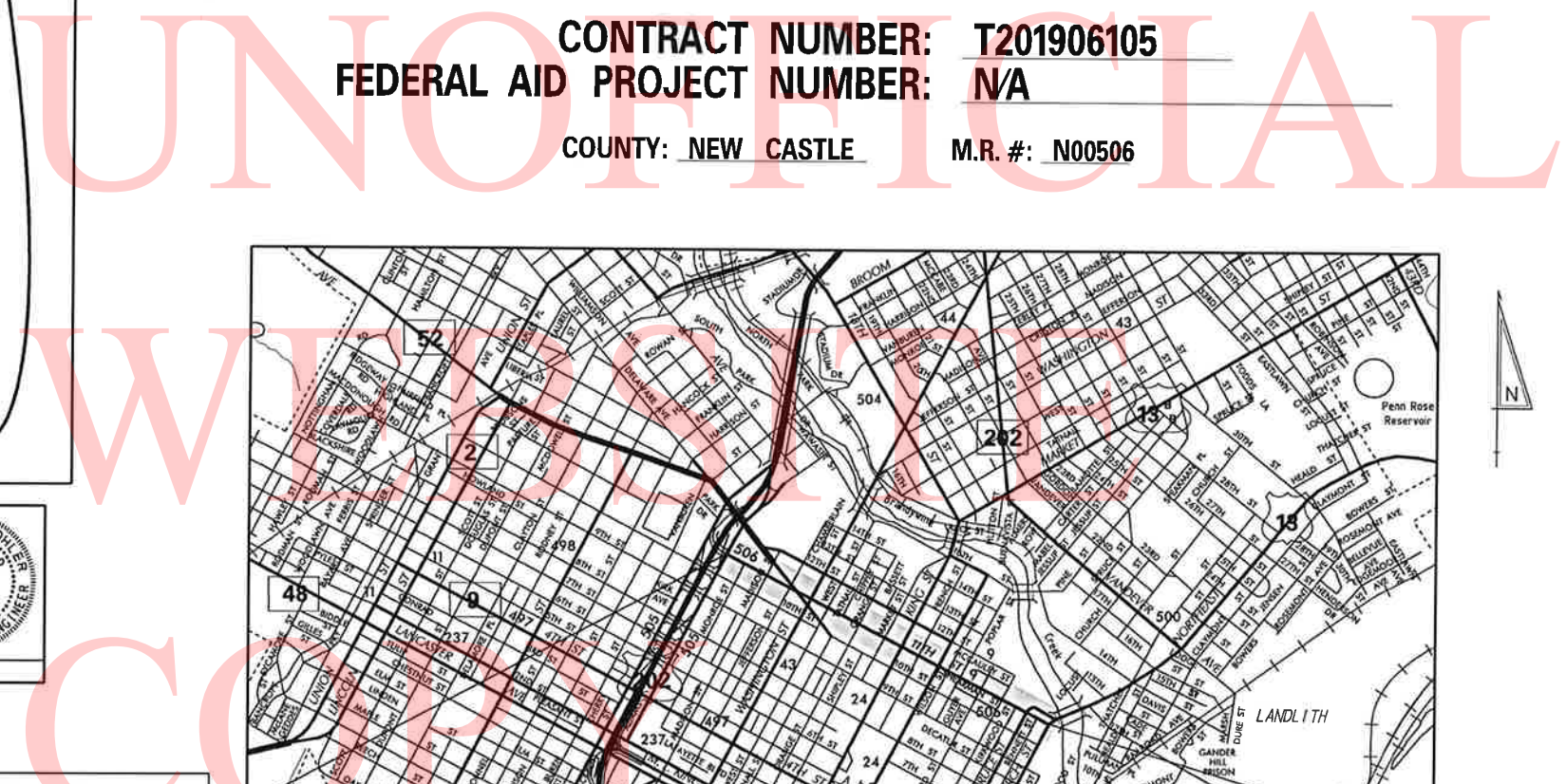


CONSTRUCTION PLANS FOR: PAVEMENT AND REHABILITATION, NORTH V, CITY OF WILMINGTON 11TH STREET, 2019 PROJECT

CONTRACT NUMBER: **T201906105**
FEDERAL AID PROJECT NUMBER: **N/A**

COUNTY: **NEW CASTLE** M.R. #: **N00506**

DESIGN DESIGNATION			
MRD #	N00506	ROAD NAME	11TH STREET
FUNCTIONAL CLASS	PRINCIPAL ARTERIAL	D.H.V. PROJECTED	N/A
TYPE OF CONSTRUCTION	PEDESTRIAN IMPROVEMENTS	DESIGN SPEED	30 M.P.H.
A.A.D.T. CURRENT	14,541	YEAR	2017
A.A.D.T. PROJECTED	N/A	YEAR	N/A
		TRUCKS	8 %
		DIRECTION OF DISTRIBUTION	100 %
APPROVED DESIGN EXCEPTIONS			
DESIGN PARAMETER	REQUIRED	PROVIDED	DATE
ADDENDA / REVISIONS			
ASSOCIATED CONTRACTS			
CONTRACT NO.	CONTRACT NAME		
T201320003	11TH STREET STREETScape IMPROVEMENTS		
65-05-001	DELAWARE AVENUE		
64-04-020 PART C	I-95 PART C, FOURTH STREET TO BRANDYWINE RIVER BRIDGE		



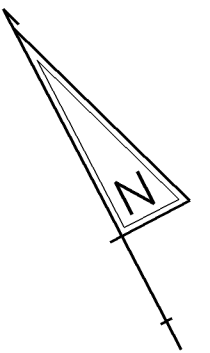
APPROVED FOR ADVERTISEMENT
Robert B. McCarty 2/2/19
DIRECTOR OF TRANSPORTATION SOLUTIONS DATE

PREPARED BY
RUMMEL, KLEPPER & KAHL, LLP
Thomas E. Mohler
01/29/2019
DATE
SEAL
THOMAS E. MOHLER
REGISTERED
No. 14234
DELAWARE
PROFESSIONAL ENGINEER

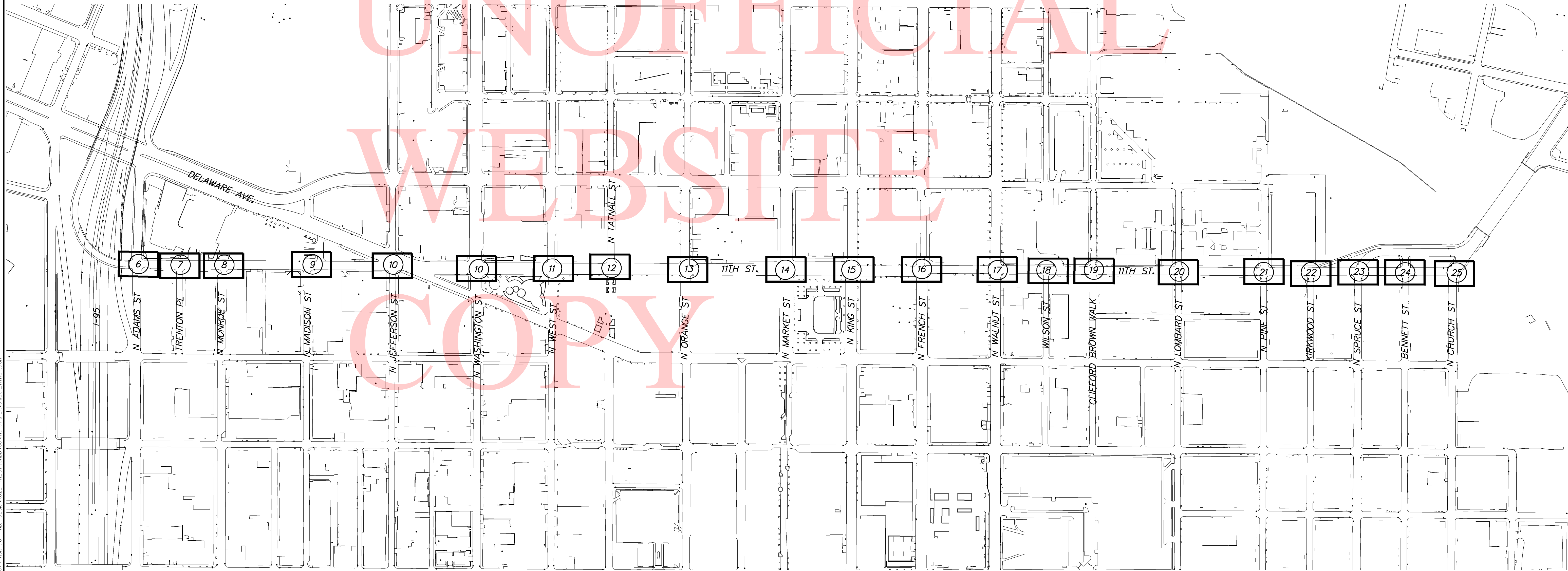
BEGIN CONTRACT
NORTH ADAMS STREET

END CONTRACT
CHURCH STREET

INDEX OF SHEETS		
SECTION	SHEET DESCRIPTION	SHEET NO(S)
RKK	TITLE	1
RKK	INDEX OF SHEETS	2
RKK	ADDENDA AND REVISIONS	3
RKK	LEGEND	4
RKK	NOTES	5
RKK	CONSTRUCTION PLANS	6 - 25
RKK	CONSTRUCTION DETAILS	26
RKK	CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLANS	27
RKK	SIGNING AND STRIPING PLANS	28 - 34
RKK	PERMANENT SIGN SCHEDULE	35 - 38
WRA	SIGNALIZATION PLANS	1 - 11



PLAN SHEET INDEX CROSS REFERENCE																				
CONSTRUCTION PLAN	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SIGNING, STRIPING & CONDUIT PLANS	28	28	28	28	29	30	30	30	31	31	31	32	32	32	33	33	33	33	34	34



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ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY:	MAG
COUNTY	CHECKED BY:	CDW
NEW CASTLE		

INDEX OF SHEETS

SECTION	RKK
SHEET NO.	2

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WEBSITE
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ADDENDA / REVISIONS

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**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

ADDENDA AND REVISIONS

SECTION
RKK
SHEET NO.
3

EXISTING SYMBOLS

DRAINAGE	
	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
	DRAINAGE INLET
	DRAINAGE JUNCTION BOX
	DRAINAGE MANHOLE
	DRAINAGE PIPE AND FLOW ARROW
	DRAINAGE PIPE HEADWALL
	RIPRAP - AREA FEATURE
	RIPRAP - LINEAR FEATURE

MANMADE ROADSIDE FEATURES	
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	CURB
	CURB AND GUTTER
	FENCE - CHAINLINK OR STRANDED
	FENCE - STOCKADE OR SPLIT RAIL
	FLAG POLE
	GUARDRAIL - STEEL BEAM
	GUARDRAIL - WIRE ROPE
	LAMP AND POST - RESIDENTIAL
	MAILBOX
	PARKING METER AND POST
	PAVEMENT - FLEXIBLE
	PAVEMENT - RIGID
	PILE - BRIDGE
	PILLAR OR MISCELLANEOUS POST
	TRAFFIC SIGN AND POST
	WALL - BRICK OR BLOCK
	WALL - STONE

NATURAL ROADSIDE FEATURES	
	GRASS LAWN
	HEDGEROW OR THICKET
	MARSH BOUNDARY LINE
	TREE - CONIFEROUS
	TREE - DECIDUOUS
	TREE STUMP
	SHRUBBERY
	DELINEATED WETLAND BOUNDARY LINE
	WOODS LINE BOUNDARY

RIGHT-OF-WAY SYMBOLS	
	PROPERTY MARKER - CONCRETE MON.
	PROPERTY MARKER - IRON PIPE
	HISTORIC RIGHT-OF-WAY BASELINE
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING DENIAL OF ACCESS
	EXISTING R/W & DENIAL OF ACCESS

SURVEY CONTROL & MONUMENTATION	
	SURVEY BENCHMARK LOCATION
	SURVEY TIE POINT LOCATION
	SURVEY TRAVERSE POINT
	POINT OF CURVATURE OR TANGENCY
	POINT OF INTERSECTING TANGENTS

UTILITY	
	SOIL BORING LOCATION
	UTILITY TEST HOLE LOCATION
	CABLE TV DISTRIBUTION BOX
	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
	GAS MANHOLE
	GAS METER
	GAS VALVE
	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
	SANITARY SEWER MANHOLE
	SANITARY SEWER VALVE
	SANITARY SEWER CLEANOUT OR VENT
	SEPTIC DRAIN FIELD
	TELEPHONE BOOTH
	TELEPHONE MANHOLE
	TELEPHONE TEST POINT
	TRAFFIC - CONDUIT JUNCTION WELL
	TRAFFIC - LIGHT POLE AND BASE
	TRAFFIC - PEDESTRIAN POLE & BASE
	TRAFFIC - SIGNAL CABINET & BASE
	TRAFFIC - SIGNAL POLE AND BASE
	UTILITY BOX
	UTILITY POLE GUY WIRE ANCHOR
	UTILITY POLE
	WATER - FIRE HYDRANT
	WATER METER
	WATER VALVE
	WELL HEAD
	MANHOLE - UNDETERMINED OWNER

UTILITY COMPANY FACILITIES	
	CITY OF WILMINGTON COMBINED SEWER
	CITY OF WILMINGTON SEWER
	CITY OF WILMINGTON WATER
	DELMARVA POWER-ELECTRIC
	DELMARVA POWER-ELECTRIC OVERHEAD
	DELMARVA POWER-GAS
	VERIZON CONDUIT
	VERIZON FIBER OPTICS
	MCIFIBER OPTICS
	COMCAST

PROPOSED SYMBOLS

CONSTRUCTION	
	CONCRETE SAFETY BARRIER - PERMANENT
	BIOFILTRATION SWALE
	BRICK PATTERNED SURFACE
	BUTT JOINT
	CLEAR ZONE
	CONSTRUCTION BASELINE
	CONSTRUCTION SAFETY FENCE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB & GUTTER, TYPE 4
	CURB OPENING - SUMP / ON GRADE
	CURB OPENING WITH SIDEWALK
	DRAINAGE INLET
	DITCH
	FENCE - METAL
	FENCE - WOOD
	FLARED END SECTION
	GUARDRAIL, TYPE 1
	GUARDRAIL, TYPE 2
	GUARDRAIL, TYPE 3
	GUARDRAIL END ANCHORAGE
	GUARDRAIL END TREATMENT, TYPE 1
	GUARDRAIL END TREATMENT, TYPE 2
	GUARDRAIL END TREATMENT, TYPE 3
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
	LATERAL OFFSET
	LIMIT OF CONSTRUCTION
	MAILBOX
	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK - 4"
	P.C.C. SIDEWALK - 6" (USE 8" DEPTH FOR CHANNELIZATION ISLANDS.)
	UNDERDRAIN
	UNDERDRAIN OUTLET

RIGHT-OF-WAY SYMBOLS	
	PROPOSED RIGHT-OF-WAY MONUMENT
	PROPOSED DENIAL OF ACCESS
	PROPOSED PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED R/W & DENIAL OF ACCESS
	PROPOSED RIGHT-TO-ENTER
	PROPOSED RIGHT-OF-WAY BASELINE

IDENTIFIERS	
	ADJUST BY CONTRACTOR
	ADJUST BY OTHERS
	CONCRETE SAFETY BARRIER
	CURB OR CURB & GUTTER
	CONVERT TO JUNCTION BOX
	CONVERT TO DRAINAGE MANHOLE
	CURB OPENING - SUMP / ON GRADE
	CURB OPENING WITH SIDEWALK
	CURB RAMP / TYPE
	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
	CONSTRUCTION SAFETY FENCE
	DRAINAGE INLET
	DO NOT DISTURB
	ENERGY DISSIPATOR
	FENCE
	FLARED END SECTION
	FILL WITH FLOWABLE FILL
	FILTRATION STRUCTURE
	GUARDRAIL
	JUNCTION BOX
	MANHOLE
	MONUMENT - RIGHT-OF-WAY
	PIPE
	RELOCATE BY CONTRACTOR
	RELOCATE BY OTHERS
	RELOCATE BY PROPERTY OWNER
	REMOVE BY CONTRACTOR
	REMOVE BY TRAFFIC CONTRACTOR
	REMOVE BY OTHERS
	UNDERDRAIN / LENGTH
	UNDERDRAIN OUTLET PIPE

LANDSCAPING	
	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

TRAFFIC	
	ITMS CONDUIT
	SIGNAL CONDUIT
	CONDUIT JUNCTION WELL
	LUMINAIRE
	PAVEMENT MARKINGS
	PAVEMENT STRIPING
	TRAFFIC SIGN

PAVEMENT SECTION(S)	
	RECONSTRUCTED PAVEMENT - SEE CONSTRUCTION DETAILS FOR MATERIALS AND DEPTHS

MISCELLANEOUS	
	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
	REMOVE AND RESET DECORATIVE PAVERS
	REMOVE AND RESET BRICK PAVERS
$TC = XX.XX'$	TOP OF CURB ELEVATION
$BC = XX.XX'$	BOTTOM OF CURB ELEVATION

ADDENDA / REVISIONS

NOT TO SCALE

PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

LEGEND

SECTION	RKK
SHEET NO.	4

GENERAL NOTES

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2016 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2017, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

2. ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR, INCLUDE:

()	NONE
(X)	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	ALL PLAN SHEETS, IN PDF FORMAT.
()	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
()	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
()	DESIGN FILE, IN .DGN FILE FORMAT, CONTAINING ONLY THE PROPOSED 3D TRIANGLES OF THE PROPOSED DIGITAL TERRAIN MODEL (DTM).

NOTE: THE DOCUMENT ENTITLED "RELEASE FOR DELIVERY OF DOCUMENTS IN ELECTRONIC FORM TO A CONTRACTOR" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

3. PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR, INCLUDE:

()	CROSS SECTIONS
()	RIGHT-OF-WAY PLANS (WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR)

PROJECT NOTES

DIVISION 100

- ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR WILL CONTACT THE DELAWARE TMC AT 302-659-4600 PRIOR TO ANY UNMANNED AIRCRAFT VEHICLE (UAV) FLIGHTS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE FOLLOWING INFORMATION: THE REGISTRATION NUMBER OF THE UAV, THE FLIGHT TIME, LOCATION OF THE FLIGHT, THE PILOT'S NAME AND THE PILOT'S CONTACT NUMBER DURING THE FLIGHT.

DIVISION 200

- ALL EXISTING COBBLESTONES REMOVED UNDER THIS CONTRACT SHALL BE CLEANED OF ANY MORTAR, DEBRIS, ETC. THEN SALVAGED AND DELIVERED TO THE CITY OF WILMINGTON'S SITE WITHIN FIVE (5) MILES, CONTACT SAM BIASE, 302-576-3861, TO COORDINATE DELIVERIES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 202000.
- ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - TRAFFIC SIGNAL AND CABINET FOUNDATIONS
 - LIGHT POLE FOUNDATIONS

DIVISION 600

- DRAINAGE INLET GRATES ADJACENT TO THE ROAD, WITHIN THE PROJECT LIMITS, WHICH ARE NOT TYPE 1 OR TYPE 4, SHALL BE REPLACED. THE ACTUAL LOCATIONS, THE NEED FOR ANY GRATE MODIFICATIONS OR FOR NEW FRAMES SHALL BE DETERMINED BY THE ENGINEER. ALL REPLACED GRATES/FRAMES SHALL BE DELIVERED TO THE NEAREST DISTRICT MAINTENANCE YARD WITH THE COST OF DELIVERY INCIDENTAL TO ITEM 602100 - REPLACING DRAINAGE INLET GRATE(S). FINAL PAYMENT FOR REPLACED GRATES/FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.

DIVISION 700

- IN AREAS WHERE PROPOSED CURB MEETS EXISTING CURB AND THE TWO CURB TYPES ARE NOT SIMILAR, THE PROPOSED CURB SHALL BE TRANSITIONED IN 10 LINEAR FEET, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK, INCLUDING SAW CUTTING EXISTING CURB SHALL BE INCIDENTAL TO THE PROPOSED CURB ITEM.
- WHERE PROPOSED CONCRETE SIDEWALK IS CONSTRUCTED TO MEET EXISTING SIDEWALK, THE EXISTING SIDEWALK SHALL BE SAWCUT AT THE TIE-IN POINT OR MEET THE NEAREST EXISTING SIDEWALK JOINT. ALL SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER AND SHALL BE PAID FOR UNDER ITEM 762001 - SAW CUTTING, CONCRETE, FULL DEPTH.
- THE CONTRACTOR SHALL DELIVER ALL EXCESS MILLED MATERIAL TO THE DELAWARE DEPARTMENT OF TRANSPORTATION'S TALLEY MAINTENANCE YARD. THE MATERIAL SHALL BE NEATLY STOCKPILED AT THE YARD. COSTS FOR THIS WORK SHALL BE INCIDENTAL TO THE MILLING ITEM UTILIZED FOR PAYMENT ON THE CONTRACT.
- ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT.
- THE CONTRACTOR SHALL ANTICIPATE THAT THE EXISTING GRANITE CURB ON THIS PROJECT IS SET IN FOUNDATION CONCRETE, PER THE CITY OF WILMINGTON STANDARD DETAILS. ALL EXISTING GRANITE CURB REMOVED UNDER THIS CONTRACT SHALL BE CLEANED OF ANY CONCRETE AND/OR MORTAR, DEBRIS, ETC. THEN SALVAGED AND DELIVERED TO THE CITY OF WILMINGTON'S SITE WITHIN FIVE (5) MILES, CONTACT BRIAN MITCHELL, 302-576-3084, TO COORDINATE DELIVERIES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 202000.

DIVISION 900

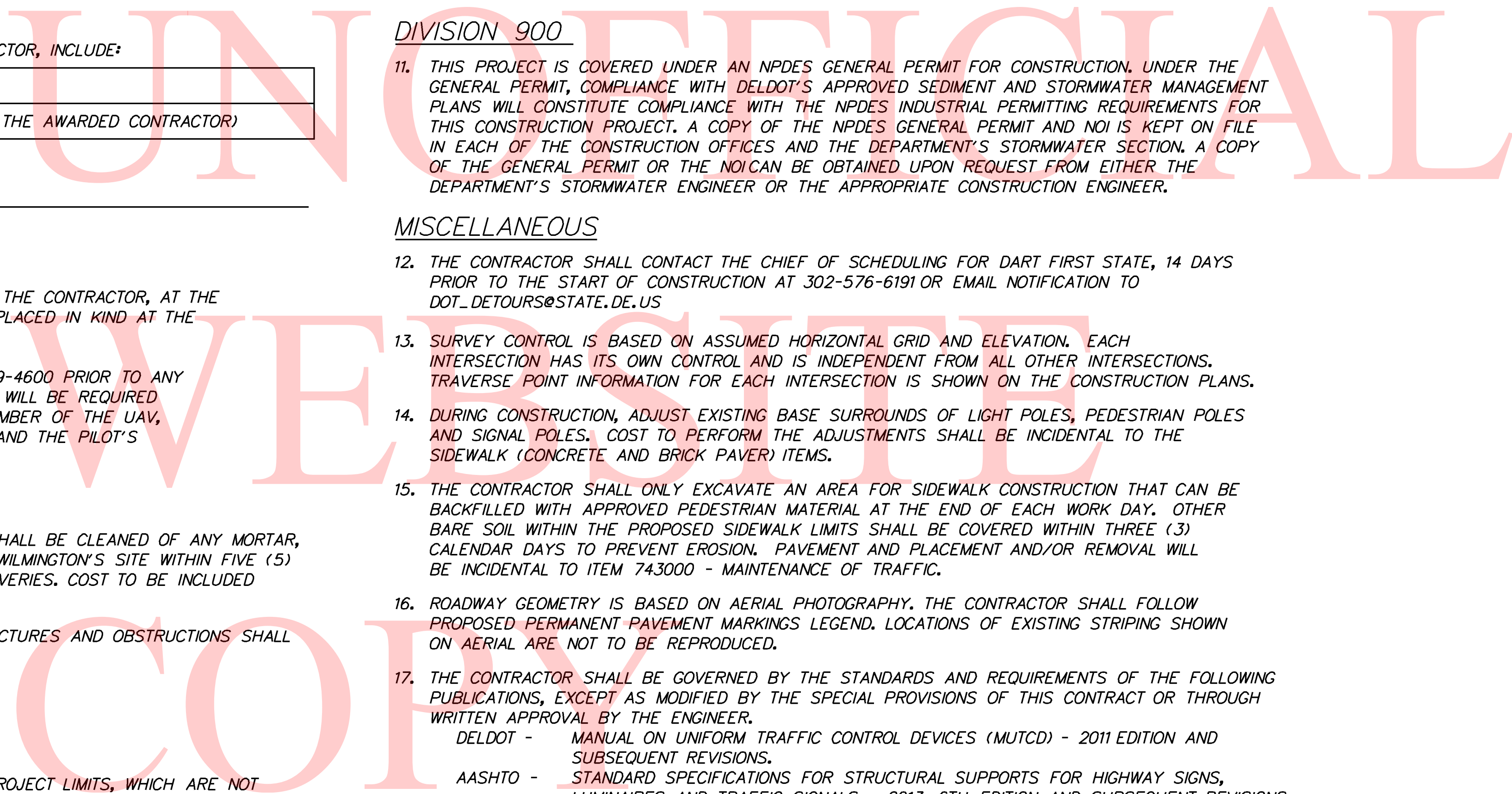
- THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION. UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOI IS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S STORMWATER SECTION. A COPY OF THE GENERAL PERMIT OR THE NOI CAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.

MISCELLANEOUS

- THE CONTRACTOR SHALL CONTACT THE CHIEF OF SCHEDULING FOR DART FIRST STATE, 14 DAYS PRIOR TO THE START OF CONSTRUCTION AT 302-576-6191 OR EMAIL NOTIFICATION TO DOT_DETOURS@STATE.DE.US
- SURVEY CONTROL IS BASED ON ASSUMED HORIZONTAL GRID AND ELEVATION. EACH INTERSECTION HAS ITS OWN CONTROL AND IS INDEPENDENT FROM ALL OTHER INTERSECTIONS. TRAVERSE POINT INFORMATION FOR EACH INTERSECTION IS SHOWN ON THE CONSTRUCTION PLANS.
- DURING CONSTRUCTION, ADJUST EXISTING BASE SURROUNDS OF LIGHT POLES, PEDESTRIAN POLES AND SIGNAL POLES. COST TO PERFORM THE ADJUSTMENTS SHALL BE INCIDENTAL TO THE SIDEWALK (CONCRETE AND BRICK PAVEMENT) ITEMS.
- THE CONTRACTOR SHALL ONLY EXCAVATE AN AREA FOR SIDEWALK CONSTRUCTION THAT CAN BE BACKFILLED WITH APPROVED PEDESTRIAN MATERIAL AT THE END OF EACH WORK DAY. OTHER BARE SOIL WITHIN THE PROPOSED SIDEWALK LIMITS SHALL BE COVERED WITHIN THREE (3) CALENDAR DAYS TO PREVENT EROSION. PAVEMENT AND PLACEMENT AND/OR REMOVAL WILL BE INCIDENTAL TO ITEM 743000 - MAINTENANCE OF TRAFFIC.
- ROADWAY GEOMETRY IS BASED ON AERIAL PHOTOGRAPHY. THE CONTRACTOR SHALL FOLLOW PROPOSED PERMANENT PAVEMENT MARKINGS LEGEND. LOCATIONS OF EXISTING STRIPING SHOWN ON AERIAL ARE NOT TO BE REPRODUCED.
- THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS, EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT OR THROUGH WRITTEN APPROVAL BY THE ENGINEER.
 - DELDOT - MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) - 2011 EDITION AND SUBSEQUENT REVISIONS.
 - AASHTO - STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS - 2013, 6TH EDITION AND SUBSEQUENT REVISIONS.
 - FHWA - STANDARD HIGHWAY SIGNS - 2004 EDITION AND SUBSEQUENT SUPPLEMENTS.
- THE CONTRACTOR SHALL INSTALL NEW SIGN POSTS WHERE ADDITIONAL SIGN HEIGHT IS WARRANTED.
- THE CONTRACTOR SHALL REMOVE ALL CONFLICTING PAVEMENT STRIPING (ITEM 817031) PRIOR TO INSTALLING PROPOSED PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL INSTALL PROPOSED STOP LINES A MINIMUM OF 4 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE.
- PROPOSED CROSSWALK PAVEMENT MARKINGS SHALL BE 10 FEET WIDE, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL INSTALL THE TWO-LANE "SCHOOL" WORD PAVEMENT MARKING WITH A LETTER HEIGHT OF 10 FEET, PLACED AT THE SAME LOCATION OF THE SCHOOL SPEED LIMIT (S5-1-DE) SIGN APPROACHING THE SCHOOL ZONE.
- THE CONTRACTOR SHALL INSTALL BICYCLE PAVEMENT MARKINGS PER FIGURES 9C-3B (HELMETED BICYCLIST SYMBOL) AND 9C-9 (SHARED LANE MARKING) OF THE DELAWARE MUTCD.

MISCELLANEOUS (CONT'D)

- THE CONTRACTOR SHALL CONTACT MR. BRIAN MITCHELL - CITY OF WILMINGTON DEPARTMENT OF PUBLIC WORKS - AT 302-576-3089 TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION AND WITHIN TEN (10) DAYS UPON COMPLETION OF PROPOSED STRIPING WORK. THE CITY OF WILMINGTON IS RESPONSIBLE FOR ALL PROPOSED SIGNAL HEAD SLIDES AND SUBSEQUENT ADJUSTMENTS OF OVERHEAD SIGNS AND ANY ASSOCIATED COSTS. DEPARTMENT OF PUBLIC WORKS FORCES SHALL SLIDE EXISTING SIGNAL HEADS, SO THAT EACH SIGNAL HEAD IS POSITIONED IN LINE WITH THE PATH OF THE MOVEMENT, AS SHOWN.
- THE CONTRACTOR SHALL CONTACT MR. BRIAN MITCHELL - CITY OF WILMINGTON DEPARTMENT OF PUBLIC WORKS - AT 302-576-3089 TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION AND WITHIN TEN (10) DAYS UPON COMPLETION OF ALL WORK. THE CITY OF WILMINGTON IS RESPONSIBLE FOR MAINTAINING AND/OR RE-ESTABLISHING OPERATIONS OF THE RED LIGHT CAMERA EQUIPMENT AND ANY ASSOCIATED COSTS.
- LIGHT AND PEDESTRIAN POLES TO BE ADJUSTED WILL REMAIN IN THE SAME LOCATION BUT WILL NEED TO BE ADJUSTED VERTICALLY. COST TO ADJUST LIGHT AND PEDESTRIAN POLES SHALL BE INCIDENTAL TO THE CONTRACT. POLES THAT REQUIRE NEW FOUNDATIONS ARE NOTED ON THE PLANS AND NEW FOUNDATIONS ARE TO BE PAID FOR UNDER ITEM 834006 - POLE BASE TYPE 6.



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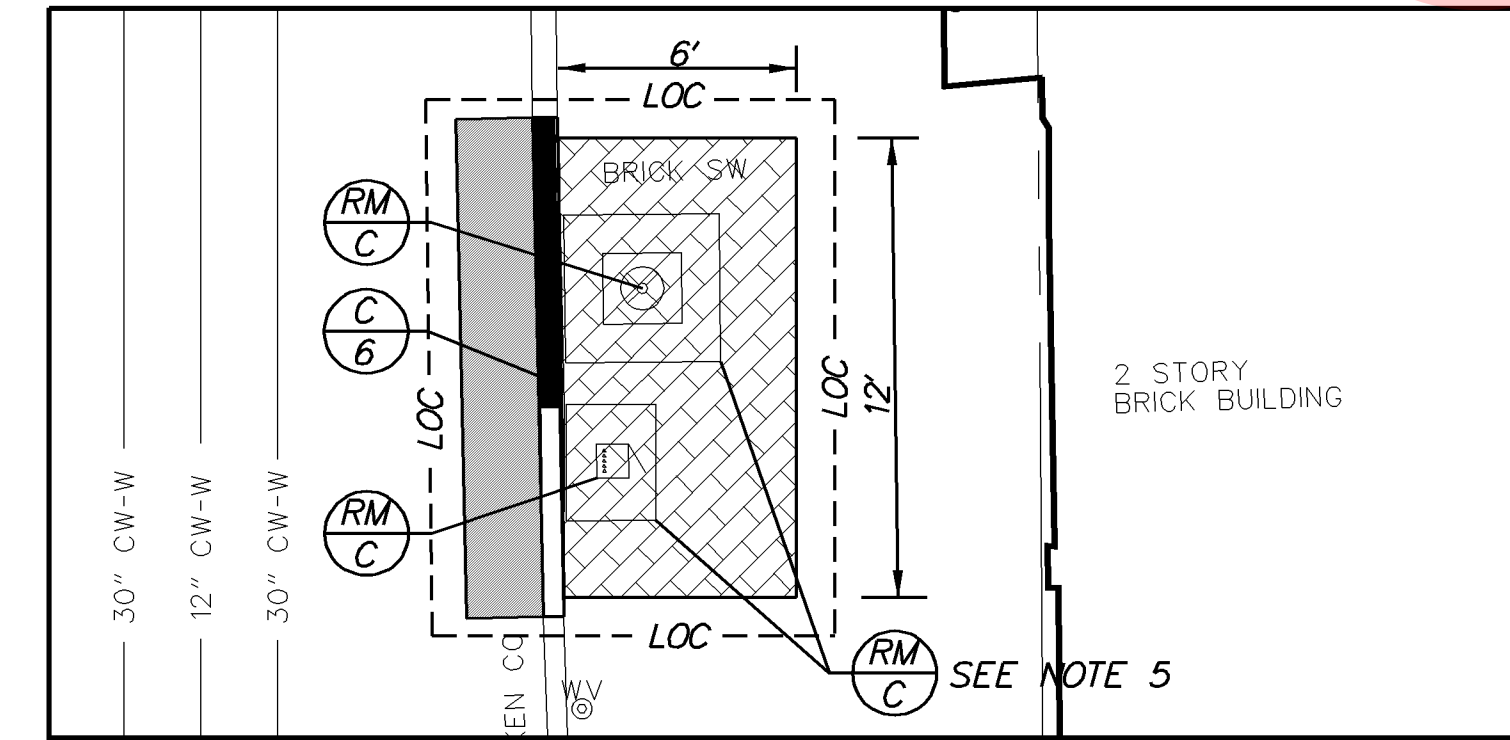
ADDENDA / REVISIONS		NOT TO SCALE	PAVEMENT AND REHABILITATION NORTH V, CITY OF WILMINGTON 11TH STREET, 2019 PROJECT	CONTRACT	BRIDGE NO.	X	NOTES	SECTION
				T201906105	DESIGNED BY: MAG			RKK
				COUNTY	CHECKED BY: CDW			SHEET NO.
				NEW CASTLE				5

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	PCC CURB, TYPE 1-6	42'
2	PCC CURB, TYPE 1-8	19'
3	PCC CURB, TYPE 1-6	38'
4	PCC CURB, TYPE 1-6	30'
5	PCC CURB, TYPE 1-6	12'
6	PCC CURB, TYPE 1-6	15'

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5000	556.6640	548.3968	MATCH EX.
5001	545.8049	535.4114	MATCH EX.
5002	542.1424	532.3411	MATCH EX.
5003	528.7347	532.7334	MATCH EX.
5004	527.2566	533.8393	MATCH EX.
5005	522.5259	537.9338	MATCH EX.
5006	526.4781	542.5001	MATCH EX.
5007	531.9225	537.6926	10.28
5008	536.8998	537.2160	10.39
5009	542.6082	543.5193	11.09
5010	502.3669	484.8282	MATCH EX.
5011	504.4227	487.1685	MATCH EX.
5012	508.4211	493.7729	9.32
5013	506.5322	501.7222	9.73
5014	508.1297	510.3203	MATCH EX.
5015	501.5671	518.1036	MATCH EX.
5016	502.7654	505.0142	9.83
5017	499.3532	501.3559	9.93
5018	503.1200	498.0639	9.83
5607	566.6911	494.0584	MATCH EX.
5608	566.0516	506.1859	10.72
5609	569.2204	510.0559	10.78
5610	574.9774	516.9580	MATCH EX.
5611	573.6650	506.2901	10.88
5612	570.4550	502.3747	10.82
5613	569.1552	500.8483	10.86

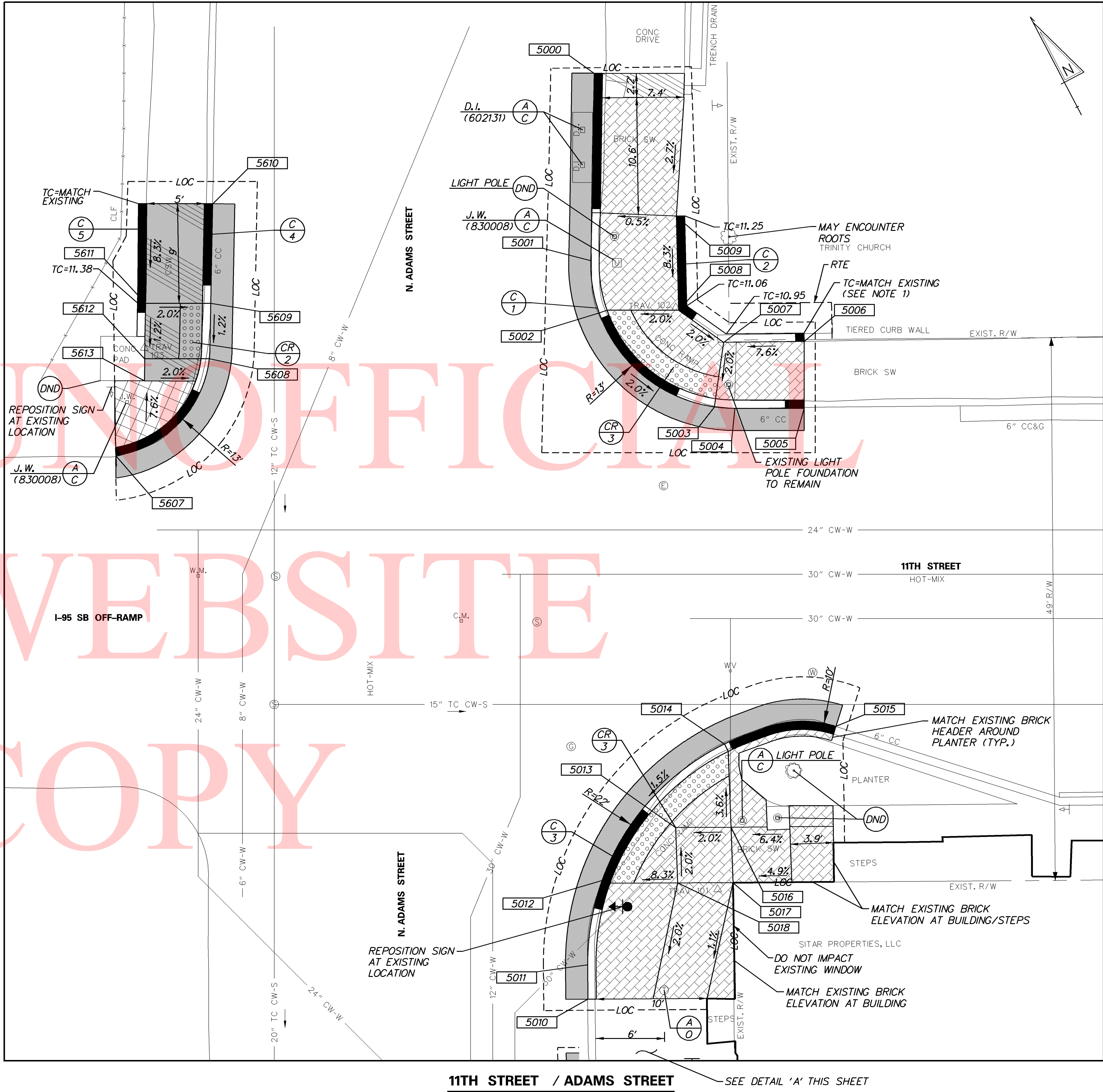
HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
101	500.0000	500.0000	10.00
102	537.2377	537.2377	11.18
103	571.1113	503.0944	11.43

- NOTES:**
- CONNECT PROPOSED CURB INTO EXISTING TIERED CURB WALL.
 - REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
 - WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE.
 - LIGHT AND PEDESTRIAN POLES TO BE ADJUSTED WILL REMAIN IN SAME LOCATION BUT NEED TO BE ADJUSTED VERTICALLY. POLES THAT REQUIRE FOUNDATION REPLACEMENT ARE NOTED. NEW FOUNDATIONS ARE TO BE PAID FOR UNDER ITEM 834006 - POLE BASE TYPE 6.
 - REMOVE EXISTING SIGNAL EQUIPMENT ON THE SOUTHEAST CORNER OF THE INTERSECTION. REMOVE CONCRETE PADS AND FOUNDATIONS 12" BELOW EXISTING GRADE AND INSTALL BRICK. SEE DETAIL 'A' THIS SHEET. PAID UNDER ITEM 211000.



DETAIL A

NOTE: SEE SIGNALIZATION PLANS FOR DETAILS ON REMOVAL.

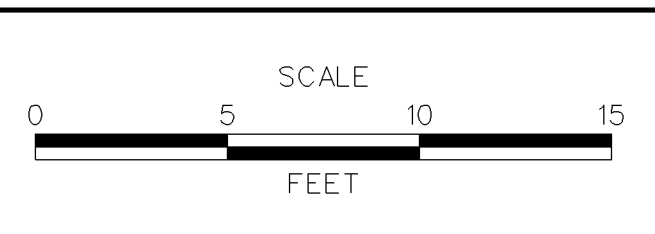


11TH STREET / ADAMS STREET

SEE DETAIL 'A' THIS SHEET

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PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

CONSTRUCTION PLAN

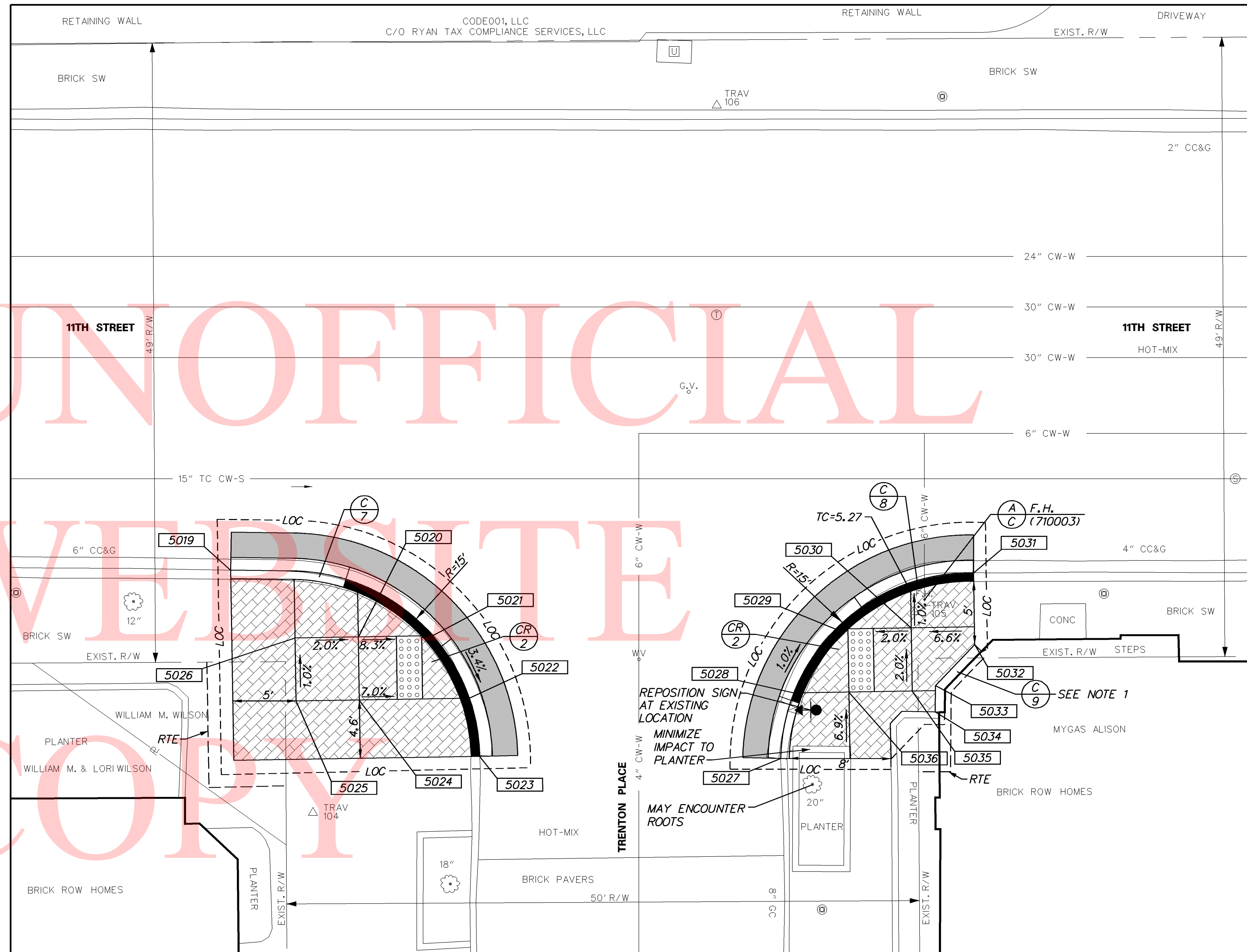
SECTION
RKK
SHEET NO.
6

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
7	PCC CURB AND GUTTER, TYPE 3-6	28'
8	PCC CURB AND GUTTER, TYPE 3-4	24'
9	PCC CURB, TYPE 1-4	6'

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5019	214.2553	185.6044	MATCH EX.
5020	214.0432	196.9865	5.87
5021	216.7625	202.2147	MATCH EX.
5022	213.6183	207.0052	MATCH EX.
5023	209.8787	209.7948	MATCH EX.
5024	209.6073	199.2937	5.82
5025	207.3001	194.8578	5.92
5026	211.7360	192.5506	5.97
5027	220.3633	231.1478	MATCH EX.
5028	225.4544	229.7611	5.25
5029	231.4470	230.4469	5.20
5030	234.2075	235.7543	5.30
5031	240.3078	238.2172	MATCH EX.
5032	235.2784	240.8332	MATCH EX.
5033	230.9802	239.5085	5.58
5034	229.1008	240.4263	5.64
5035	229.7717	238.0615	5.41
5036	227.4645	233.6257	5.31

HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
104	200.0000	200.0000	10.00
105	235.4654	235.4713	9.88
106	264.3112	203.5436	10.62

- NOTES:**
- TOP OF CURB SHALL MATCH EXISTING CONCRETE APRON.
 - REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
 - WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE.



11TH STREET / TRENTON PLACE

ADDENDA / REVISIONS



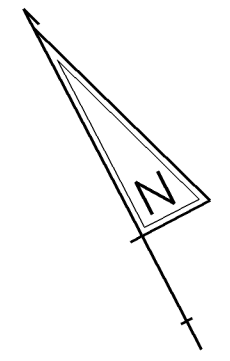
PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY:	MAG
COUNTY	CHECKED BY:	CDW
NEW CASTLE		

CONSTRUCTION PLAN

SECTION
RKK
SHEET NO.
7

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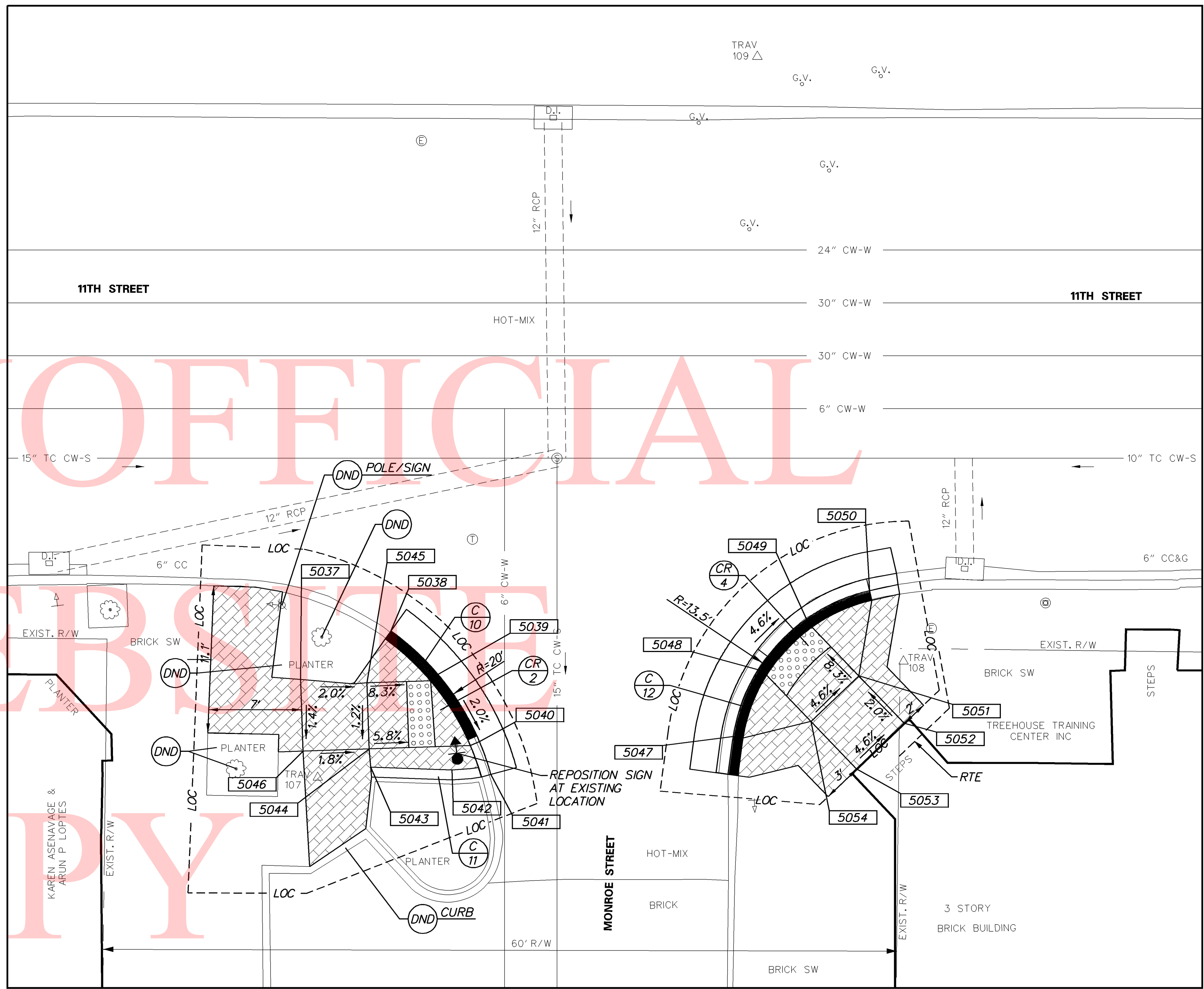


CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
10	PCC CURB, TYPE 1-6	13'
11	PCC CURB, TYPE 1-4	8'
12	PCC CURB AND GUTTER, TYPE 3-6	21'

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5037	305.4339	294.8010	10.06
5038	312.2936	298.4224	MATCH EX.
5039	311.5324	303.2347	MATCH EX.
5040	309.0419	308.6548	9.45
5041	307.4537	310.7531	MATCH EX.
5042	306.1078	308.1169	9.90
5043	302.8675	302.8835	10.00
5044	303.9486	302.0271	9.90
5045	308.0082	299.1082	9.96
5046	301.0298	297.9674	MATCH EX.
5047	320.0306	324.3871	MATCH EX.
5048	325.2833	323.1547	MATCH EX.
5049	330.5090	324.0427	MATCH EX.
5050	334.9375	326.8244	MATCH EX.
5051	329.1382	329.7255	9.98
5052	328.0581	334.6075	10.08
5053	323.1761	333.5273	9.85
5054	324.2563	328.6454	9.75

HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
107	300.0000	300.0000	10.00
108	332.0174	332.0181	10.21
109	363.8112	297.3118	11.46

- NOTE:**
- REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
 - WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE.

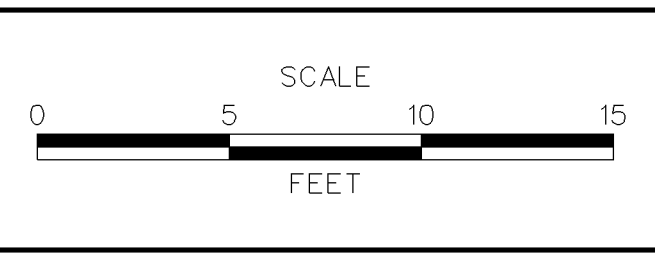


11TH STREET / MONROE STREET

UNOFFICIAL
WEBSITE
COPY

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ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

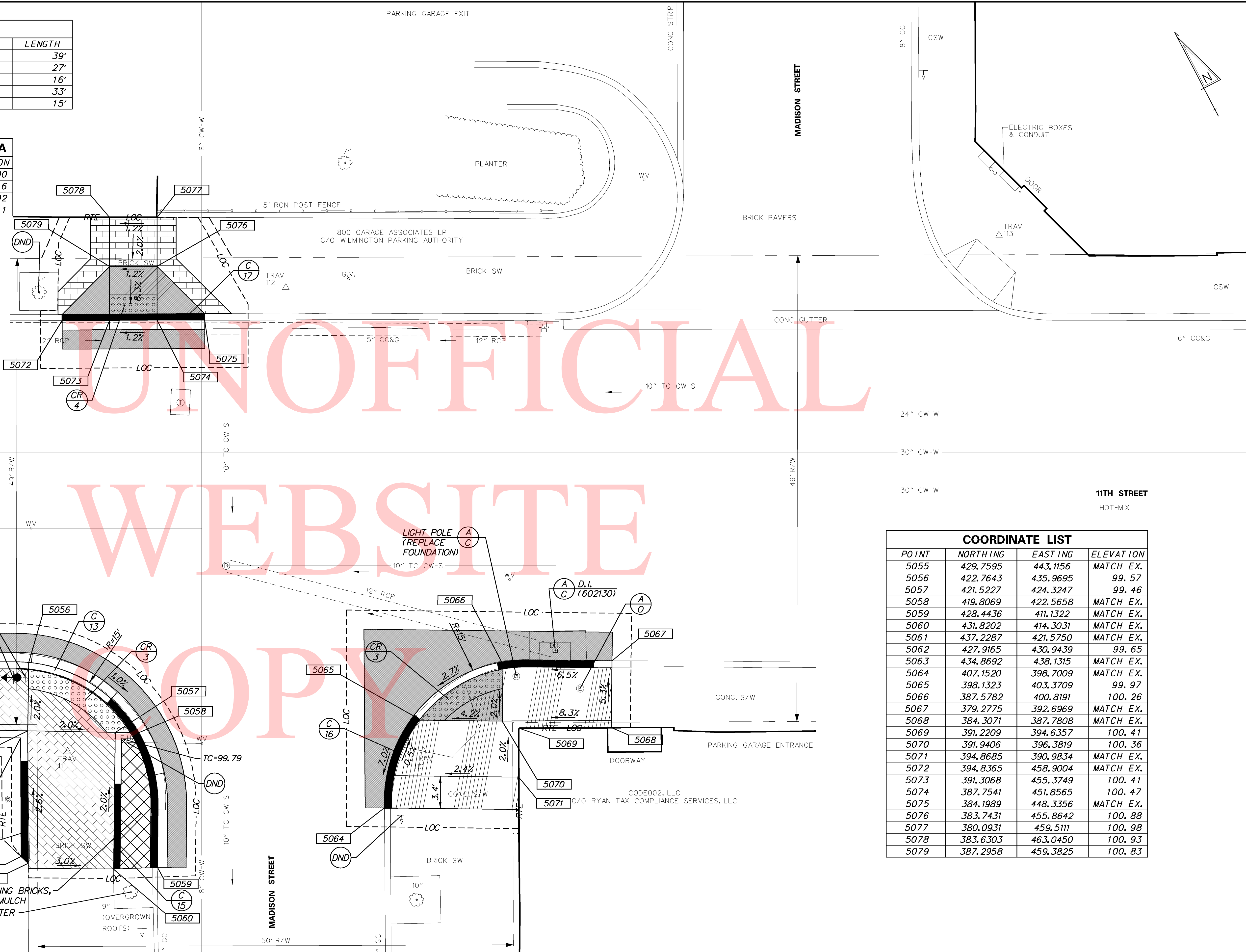
CONSTRUCTION PLAN	SECTION
	RKK
	SHEET NO.
	8

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
13	PCC CURB AND GUTTER, TYPE 3-6	39'
14	PCC CURB, TYPE 1-6	27'
15	PCC CURB, TYPE 1-4	16'
16	PCC CURB, TYPE 1-6	33'
17	PCC CURB AND GUTTER, TYPE 3-6	15'

HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
110	400.0000	400.0000	100.00
111	426.4603	426.4596	100.16
112	375.7466	444.7061	101.02
113	318.8472	395.5425	102.11

NOTES:

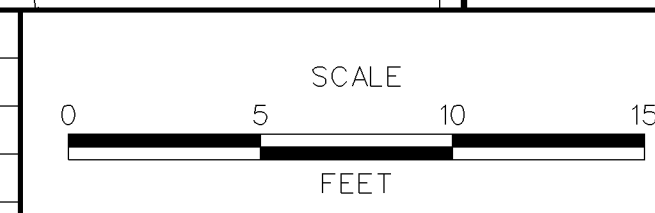
1. REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
2. WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE.
3. LIGHT AND PEDESTRIAN POLES TO BE ADJUSTED WILL REMAIN IN SAME LOCATION BUT NEED TO BE ADJUSTED VERTICALLY. POLES THAT REQUIRE FOUNDATION REPLACEMENT ARE NOTED. NEW FOUNDATIONS ARE TO BE PAID FOR UNDER ITEM 834006 - POLE BASE TYPE 6.



COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5055	429.7595	443.1156	MATCH EX.
5056	422.7643	435.9695	99.57
5057	421.5227	424.3247	99.46
5058	419.8069	422.5658	MATCH EX.
5059	428.4436	411.1322	MATCH EX.
5060	431.8202	414.3031	MATCH EX.
5061	437.2287	421.5750	MATCH EX.
5062	427.9165	430.9439	99.65
5063	434.8692	438.1315	MATCH EX.
5064	407.1520	398.7009	MATCH EX.
5065	398.1323	403.3709	99.97
5066	387.5782	400.8191	100.26
5067	379.2775	392.6969	MATCH EX.
5068	384.3071	387.7808	MATCH EX.
5069	391.2209	394.6357	100.41
5070	391.9406	396.3819	100.36
5071	394.8685	390.9834	MATCH EX.
5072	394.8365	458.9004	MATCH EX.
5073	391.3068	455.3749	100.41
5074	387.7541	451.8565	100.47
5075	384.1989	448.3356	MATCH EX.
5076	383.7431	455.8642	100.88
5077	380.0931	459.5111	100.98
5078	383.6303	463.0450	100.93
5079	387.2958	459.3825	100.83

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ADDENDA / REVISIONS

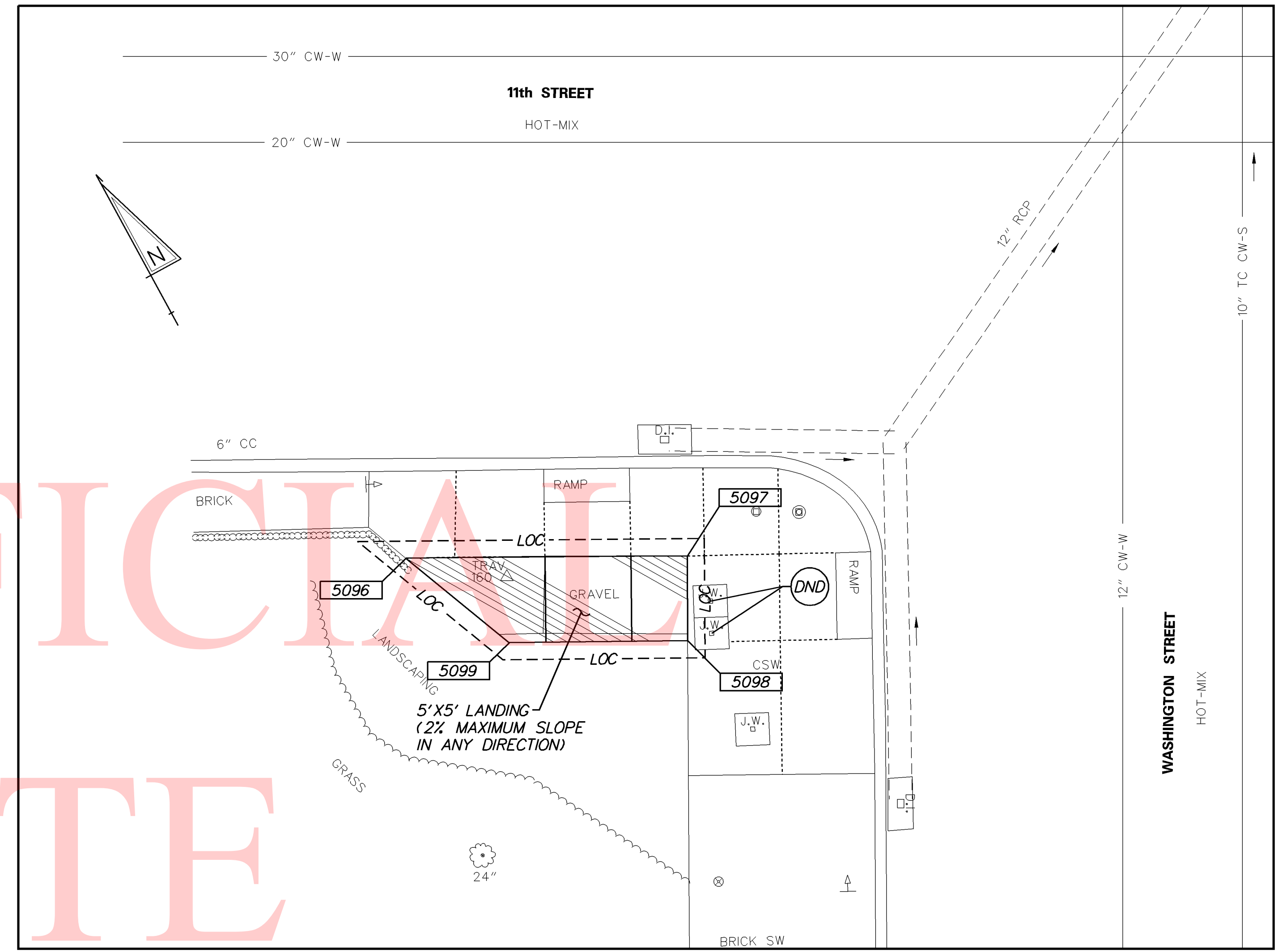
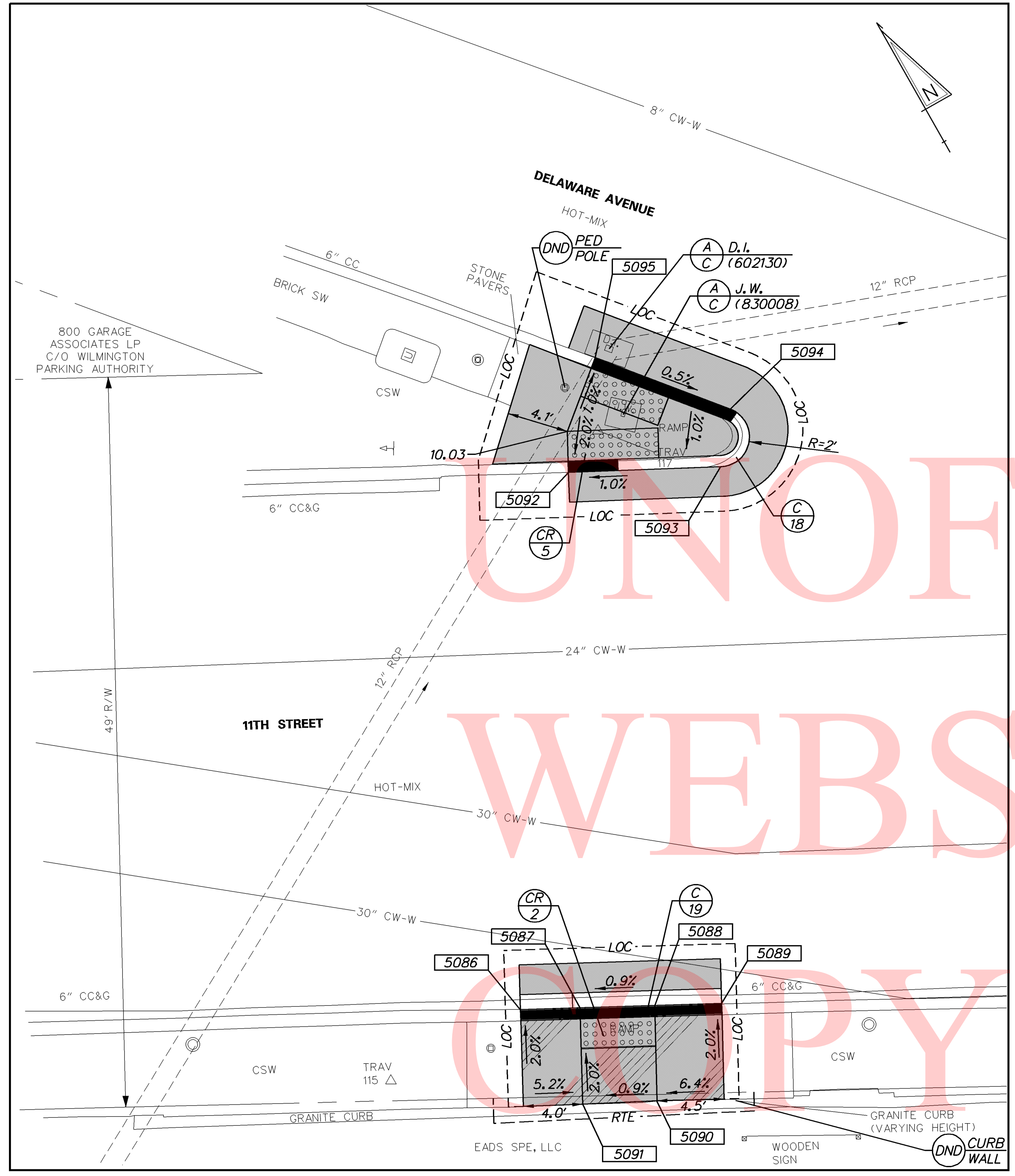


**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT T201906105	BRIDGE NO. X
COUNTY NEW CASTLE	DESIGNED BY: MAG
	CHECKED BY: CDW

CONSTRUCTION PLAN	SECTION RKK
	SHEET NO. 9

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11TH STREET / JEFFERSON STREET

HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
115	600.0000	600.0000	10.00'
117	640.6839	578.9942	10.09'

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5086	609.5206	602.7595	MATCH EX.
5087	612.4327	605.5031	9.64
5088	616.0801	608.9395	9.68
5089	619.3528	612.0228	MATCH EX.
5090	611.6460	613.5670	9.79
5091	607.9862	610.2105	9.75
5092	637.2961	579.5562	MATCH EX.
*5093	644.7926	586.5137	MATCH EX.
*5094	647.9769	584.2269	MATCH EX.
5095	644.0008	575.3927	MATCH EX.

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
18	PCC CURB, TYPE 1-6	25'
19	PCC CURB AND GUTTER, TYPE 3-6	14'

*NOSE OF PROPOSED RAMP SHALL BE SET FLUSH WITH NO CURB REVEAL.

11TH STREET / WASHINGTON STREET

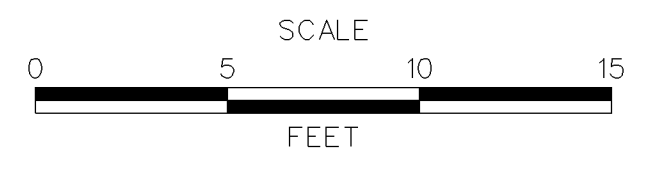
HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
160	600.0000	600.0000	100.00
161*	653.1340	653.1356	99.39
162**	691.5663	621.3647	98.45

* TRAVERSE POINT LOCATED ON THE SOUTHEAST CORNER OF THE INTERSECTION.
 ** TRAVERSE POINT LOCATED ON THE NORTHEAST CORNER OF THE INTERSECTION.

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5096	596.6008	595.0682	MATCH EX.
5097	608.2854	606.5530	MATCH EX.
5098	604.8080	610.0719	MATCH EX.
5099	597.3835	602.7936	MATCH EX.

NOTE:
 1. WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE.

ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
 NORTH V, CITY OF WILMINGTON
 11TH STREET, 2019 PROJECT**

CONTRACT T201906105	BRIDGE NO. X
COUNTY NEW CASTLE	DESIGNED BY: MAG CHECKED BY: CDW

CONSTRUCTION PLAN

SECTION RKK
SHEET NO. 10

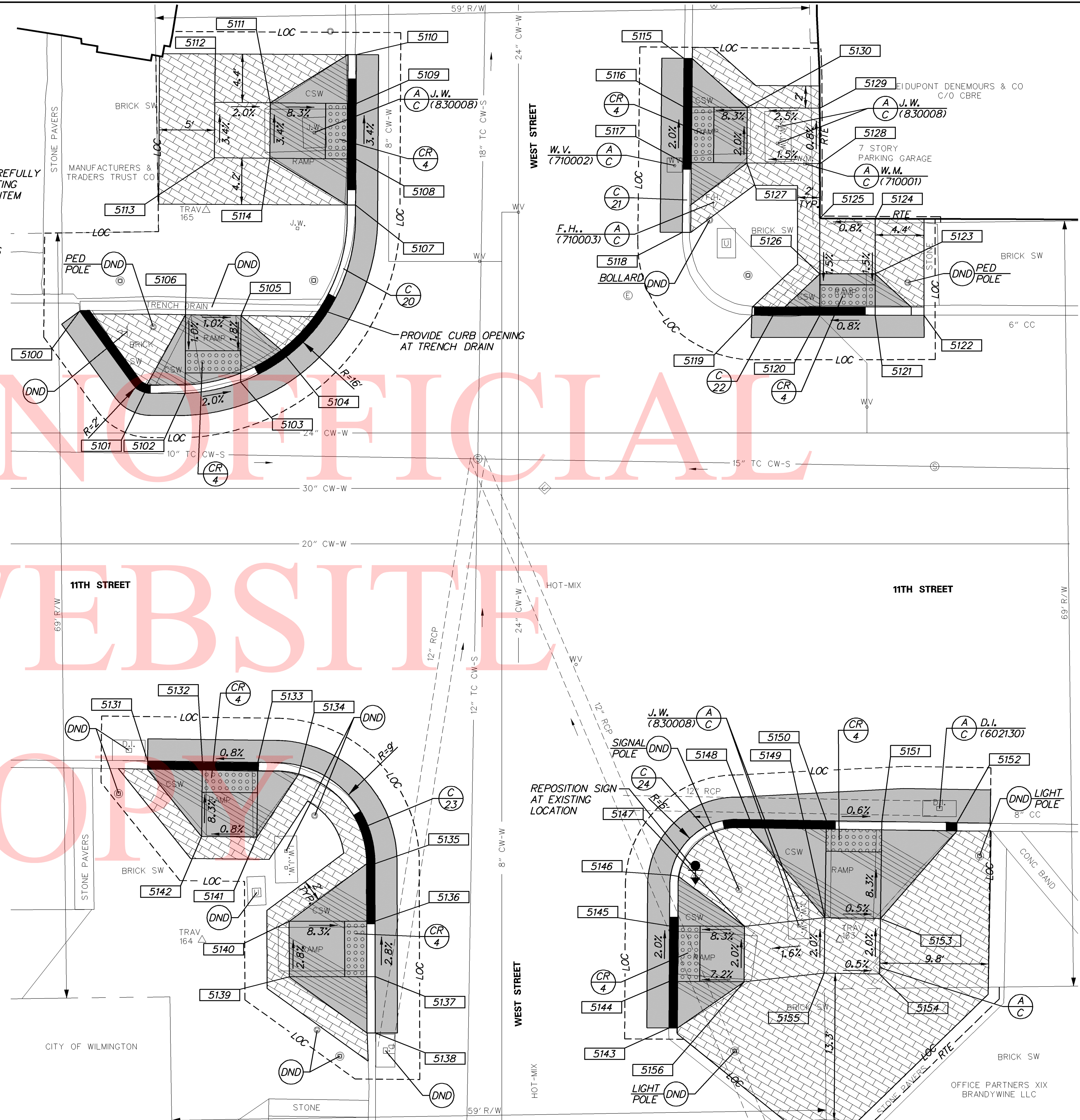
CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
20	PCC CURB, TYPE 1-6	52'
21	PCC CURB, TYPE 1-6	16'
22	PCC CURB, TYPE 1-6	15'
23	PCC CURb, TYPE 1-6	41'
24	PCC CURB, TYPE 1-6	42'

HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
163	700.0000	700.0000	100.00
164	740.6552	740.6586	99.85
165	693.8064	786.9328	98.45

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5100	708.3299	788.5589	MATCH EX.
5101	709.3796	779.2205	MATCH EX.
5102	706.8568	776.5879	98.60
5103	702.5998	773.7660	MATCH EX.
5104	698.0630	772.4753	MATCH EX.
5105	698.3397	777.9805	MATCH EX.
5106	701.8177	781.5730	MATCH EX.
5107	683.9943	777.7137	MATCH EX.
5108	681.0437	780.6328	MATCH EX.
5109	677.4891	784.1493	MATCH EX.
5110	674.3462	787.2586	MATCH EX.
5111	682.9123	789.6858	97.85
5112	686.3648	793.3093	97.95
5113	689.9833	789.7238	98.12
5114	686.4669	786.1693	98.02
5115	653.7062	766.1257	MATCH EX.
5116	656.8336	763.0624	97.45
5117	660.4055	759.5636	97.55
5118	664.9191	755.1423	MATCH EX.
5119	665.7801	745.4099	MATCH EX.
5120	661.4545	741.0848	98.08
5121	657.9166	737.5517	MATCH EX.
5122	654.8024	734.4418	MATCH EX.
5123	654.8024	734.4418	98.17
5124	651.7563	743.7203	98.24
5125	655.2647	747.2831	98.20
5126	658.8046	743.7383	98.12
5127	656.3818	755.4559	97.96
5128	651.7683	750.7461	98.06
5129	648.2368	754.2860	98.02
5130	652.8099	758.9547	97.86
5131	732.7101	755.5437	MATCH EX.
5132	729.2581	752.0032	99.15
5133	725.7677	748.4231	99.19
5134	723.2679	745.4642	MATCH EX.
5135	724.7824	734.5040	MATCH EX.
5136	728.4430	730.8275	MATCH EX.
5137	731.9709	727.2843	MATCH EX.
5138	735.5567	723.6829	MATCH EX.
5139	737.4628	732.7525	99.82
5140	733.9350	736.2957	99.72
5141	730.6007	743.7110	99.69
5142	734.0912	747.2911	99.65
5143	716.5172	705.2757	MATCH EX.
5144	713.5384	708.2226	MATCH EX.
5145	709.9839	711.7390	99.23
5146	706.6666	714.9177	MATCH EX.
5147	705.2367	706.9404	99.66
5148	698.0777	713.4207	99.14
5149	699.5489	702.3645	99.78
5150	693.2647	708.4532	99.10
5151	689.7855	704.8623	99.06
5152	685.0745	700.0001	MATCH EX.
5153	696.0696	698.7736	99.73
5154	699.6605	695.2943	99.83
5155	703.1398	698.8853	99.88
5156	708.7912	703.4240	99.76

NOTES:

- REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
- WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE.



ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

CONSTRUCTION PLAN

SECTION	RRK
SHEET NO.	11

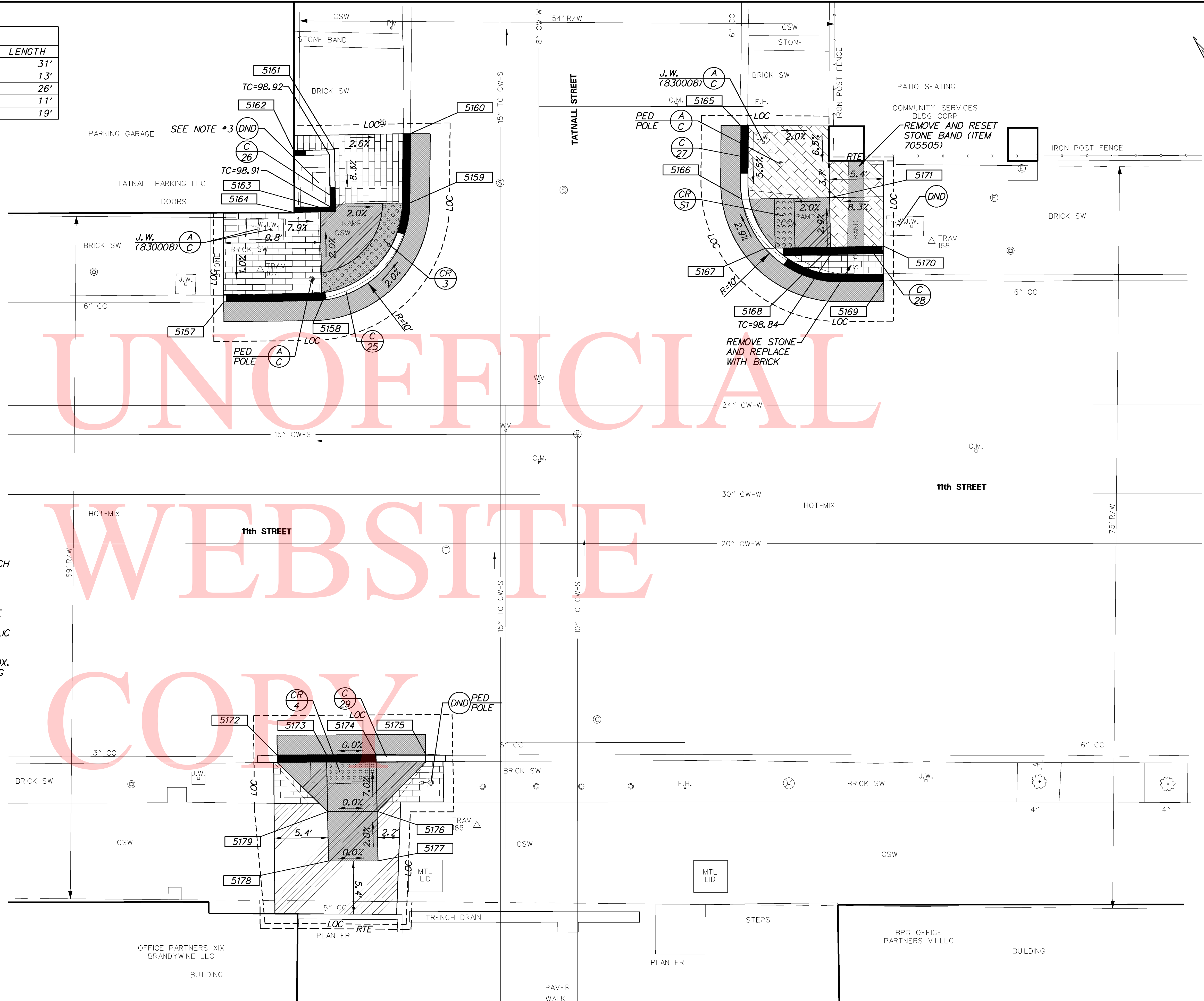
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CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
25	PCC CURB, TYPE 1-6	31'
26	PCC CURB, TYPE 1-8	13'
27	PCC CURB, TYPE 1-6	26'
28	PCC CURB, TYPE 1-6	11'
29	PCC CURB, TYPE 1-6	19'

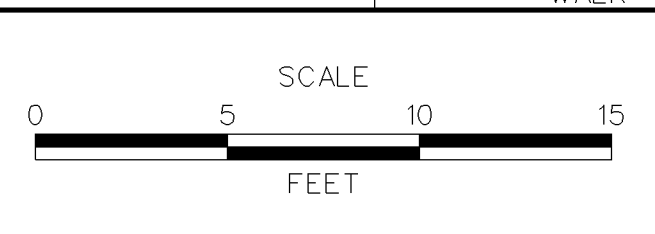
HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
166	800.0000	800.0000	100.00
167	842.6358	842.6347	99.85
168	781.6716	872.5385	98.45

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5157	844.7091	838.1698	MATCH EX.
5158	835.6261	842.3423	98.40
5159	831.5069	854.8858	98.11
5160	834.2798	861.3392	MATCH EX.
5161	840.6519	856.7470	98.68
5162	844.3432	854.9879	MATCH EX.
5163	838.0268	851.0579	98.24
5164	841.8140	849.3104	MATCH EX.
5165	804.0353	875.5063	MATCH EX.
5166	800.9455	868.7213	98.10
5167	796.8012	865.1269	MATCH EX.
5168	790.8022	867.8950	98.43
5169	784.4678	866.8552	MATCH EX.
5170	785.9216	870.1470	MATCH EX.
5171	792.8970	872.4350	98.26
5172	821.3426	798.3914	MATCH EX.
5173	816.7839	800.4222	MATCH EX.
5174	812.2162	802.4570	MATCH EX.
5175	807.6394	804.4958	MATCH EX.
5176	809.7837	797.2456	99.82
5177	807.7119	792.6951	MATCH EX.
5178	812.2796	790.6603	MATCH EX.
5179	814.3746	795.2007	99.82

- NOTES:**
- REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
 - WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE.
 - DO NOT DISTURB EXISTING SLAB FOR TRAFFIC SIGNAL BOX. PROPOSED TOP OF CURB SHALL MATCH TOP OF EXISTING CONCRETE SLAB SO WATER CONTINUES TO DRAIN AWAY FROM BUILDING.



ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

CONSTRUCTION PLAN	SECTION
	RKK
	SHEET NO.
	12

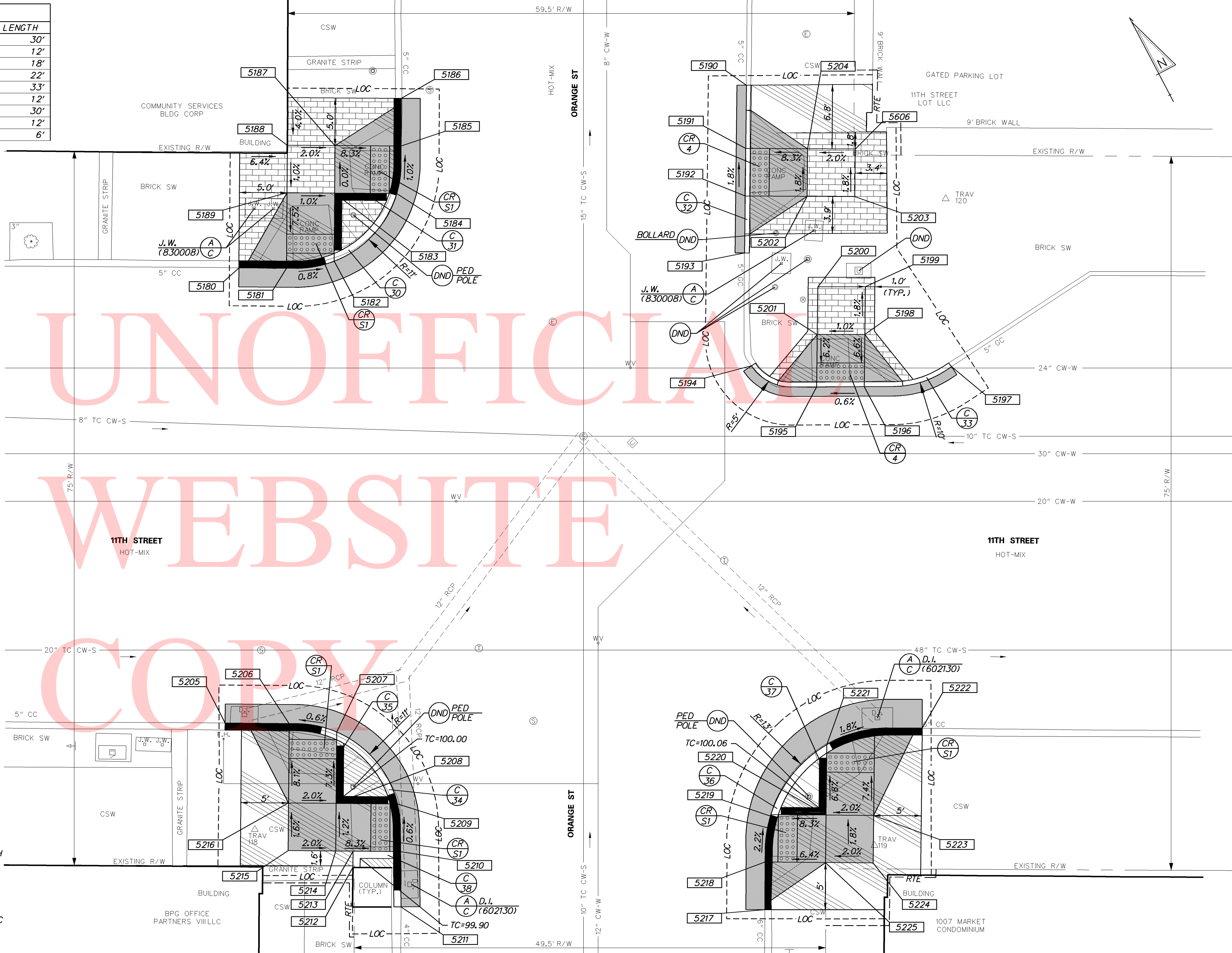
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CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
30	PCC CURB, TYPE 1-6	30'
31	PCC CURB, TYPE 1-4	12'
32	STONE CURB	18'
33	STONE CURB	22'
34	PCC CURB, TYPE 1-6	33'
35	PCC CURB, TYPE 1-4	12'
36	PCC CURB, TYPE 1-6	30'
37	PCC CURB, TYPE 1-4	12'
38	PCC CURB, TYPE 1-4	6'

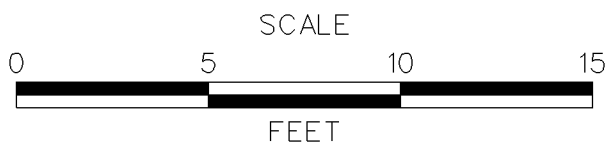
HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
118	700.0000	700.0000	100.00
119	746.0119	746.0106	100.08
120	798.0709	701.7727	99.56

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5180	739.4206	656.0714	MATCH EX.
5181	743.0192	659.5445	MATCH EX.
5182	747.1568	662.4555	98.55
5183	752.1170	657.3000	99.08
5184	756.8066	661.8172	98.55
5185	760.5821	658.5116	98.50
5186	764.0289	654.8894	MATCH EX.
5187	755.5857	653.6989	99.08
5188	751.9825	650.2282	99.18
5189	748.5139	653.8334	99.13
5190	791.2633	678.8539	MATCH EX.
5191	786.6401	683.6114	MATCH EX.
5192	783.1555	687.1972	MATCH EX.
5193	778.9756	691.4986	MATCH EX.
5194	771.3529	700.5848	MATCH EX.
5195	774.7760	706.9036	99.19
5196	778.4164	710.3320	99.22
5197	786.5227	715.1185	MATCH EX.
5198	782.2499	706.3871	99.55
5199	785.7349	702.8009	99.46
5200	782.0945	699.3726	99.41
5201	778.6095	702.9588	99.50
5202	787.8370	691.7065	99.13
5203	791.4382	695.1753	99.23
5204	791.3216	688.1207	99.04
5205	708.3669	692.5838	MATCH EX.
5206	710.2698	694.4163	99.30
5207	713.2779	698.4987	99.33
5208	708.0652	703.8922	99.82
5209	712.6975	708.3728	99.35
5210	709.4844	712.2211	99.38
5211	705.5233	716.4572	MATCH EX.
5212	704.7139	709.9842	99.92
5213	705.9004	708.7546	99.73
5214	704.5890	707.4862	99.88
5215	700.9965	704.0114	99.98
5216	704.4699	700.4175	99.92
5217	733.0158	742.9899	MATCH EX.
5218	736.4759	739.3715	MATCH EX.
5219	740.3560	736.1683	MATCH EX.
5220	744.5174	740.1933	99.90
5221	749.6666	734.8945	MATCH EX.
5222	758.1235	740.5348	MATCH EX.
5223	748.1032	743.6779	100.00
5224	744.6268	747.2552	100.09
5225	741.0413	743.7872	99.99
5606	794.9228	691.5894	99.14

- NOTES:**
- REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
 - WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE



ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

CONSTRUCTION PLAN

SECTION	RKK
SHEET NO.	13

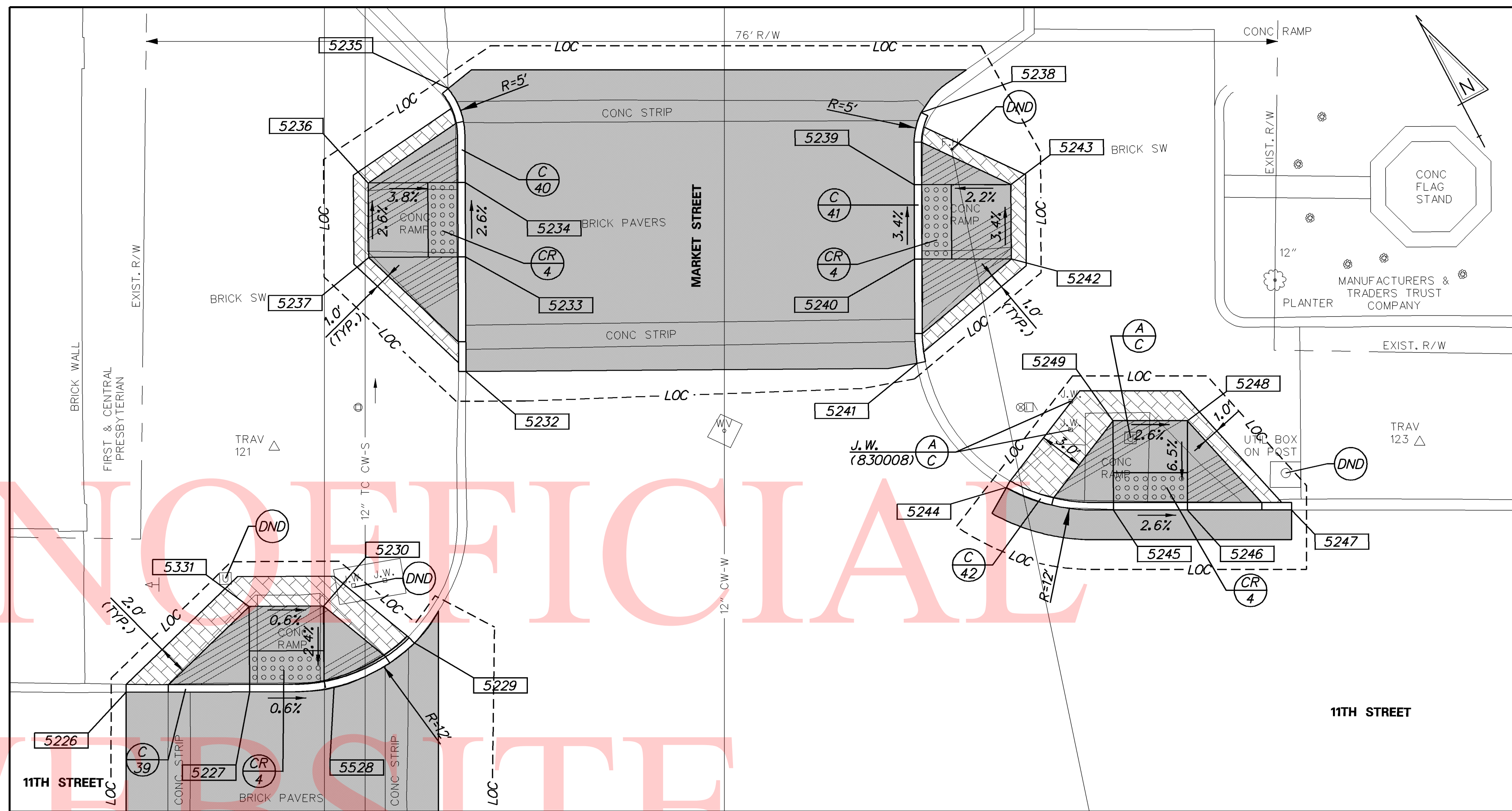
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CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
39	STONE CURB	20'
40	STONE CURB	19'
41	STONE CURB	17'
42	STONE CURB	19'
43	STONE CURB	17'
44	STONE CURB	20'
45	STONE CURB	19'
46	STONE CURB	20'

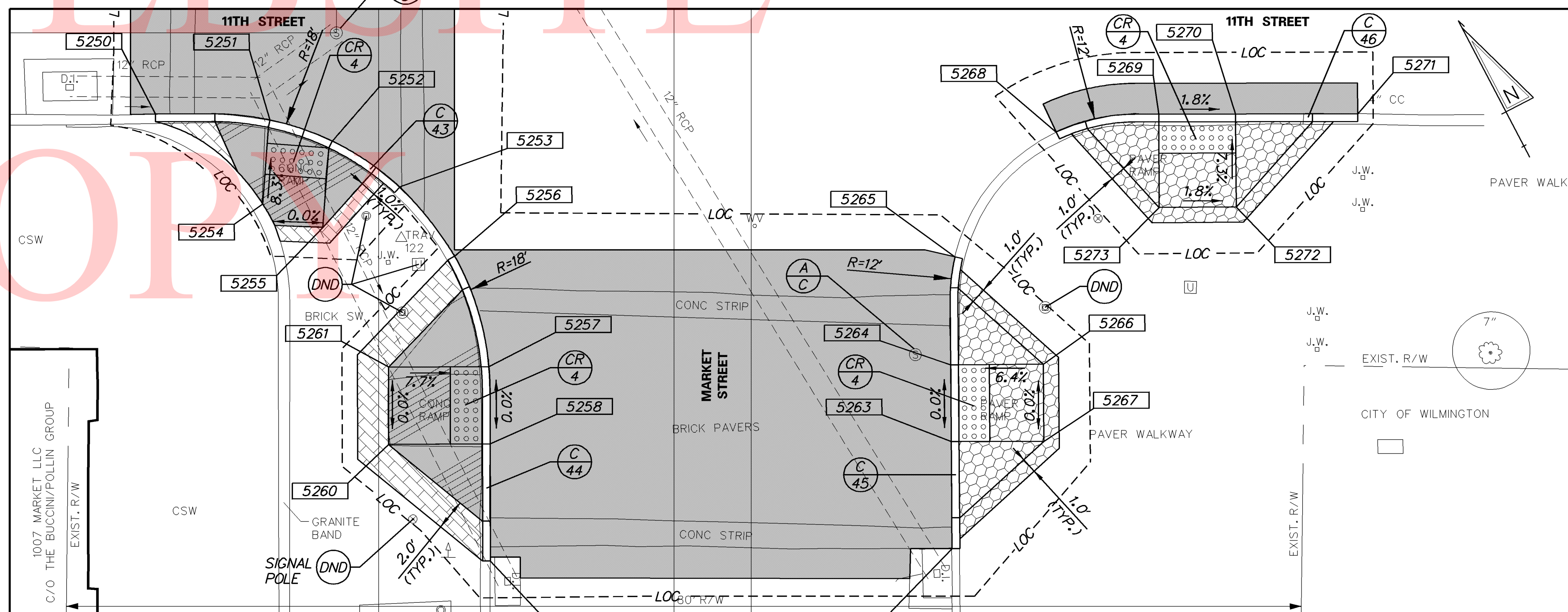
HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
121	800.0000	800.0000	100.00
122	851.3584	851.3594	100.98
123	859.5866	751.2954	98.71

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5226	802.6252	819.0533	MATCH EX.
5227	809.0663	813.8239	MATCH EX.
5228	813.2897	810.0405	MATCH EX.
5229	815.5952	804.2855	MATCH EX.
5230	809.3009	806.2081	100.17
5231	805.4288	809.3715	100.20
5232	806.8032	787.9488	MATCH EX.
5233	801.9347	781.9896	MATCH EX.
5234	798.7713	778.1175	MATCH EX.
5235	793.9157	773.9285	MATCH EX.
5236	793.7376	782.2299	99.49
5237	796.9010	786.1020	99.62
5238	819.6138	755.1801	MATCH EX.
5239	822.3072	759.2446	MATCH EX.
5240	825.4706	763.1167	MATCH EX.
5241	830.0153	768.4479	MATCH EX.
5242	830.5043	759.0044	99.49
5243	827.3409	755.1323	99.32
5244	839.9273	771.1426	MATCH EX.
5245	846.4631	767.7995	MATCH EX.
5246	850.3275	764.6689	MATCH EX.
5247	855.7667	760.2627	MATCH EX.
5248	846.5507	760.0068	99.64
5249	842.6655	763.1541	99.77
5250	833.9267	855.1399	MATCH EX.
5251	839.9286	850.7733	MATCH EX.
5252	843.9158	849.3038	MATCH EX.
5253	849.1862	848.8426	MATCH EX.
5254	842.9857	855.2915	101.00
5255	846.9744	854.0374	100.99
5256	854.7854	850.0963	MATCH EX.
5257	861.0142	854.2678	MATCH EX.
5258	864.2222	858.1034	MATCH EX.
5259	869.0075	863.9914	MATCH EX.
5260	859.1257	862.2672	100.85
5261	861.0142	854.2678	100.85
5262	891.7378	844.5401	MATCH EX.
5263	887.3364	839.1904	MATCH EX.
5264	884.1757	835.3477	MATCH EX.
5265	880.0004	829.7337	MATCH EX.
5266	888.8068	831.5328	100.44
5267	891.9861	835.3918	100.45
5268	879.9985	819.3169	MATCH EX.
5269	884.4315	814.2430	MATCH EX.
5270	888.2908	811.1028	MATCH EX.
5271	894.4242	806.1122	MATCH EX.
5272	892.1106	815.7439	100.26
5273	888.2516	818.9232	100.35

NOTES:
 1. REMOVE EXISTING BRICK AND DECORATIVE PAVERS CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).



11TH STREET / MARKET STREET (NORTH)



11TH STREET / MARKET STREET (SOUTH)

ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
 NORTH V, CITY OF WILMINGTON
 11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

CONSTRUCTION PLAN

SECTION	RKK
SHEET NO.	14

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
47	STONE CURB	38'
48	STONE CURB	25'

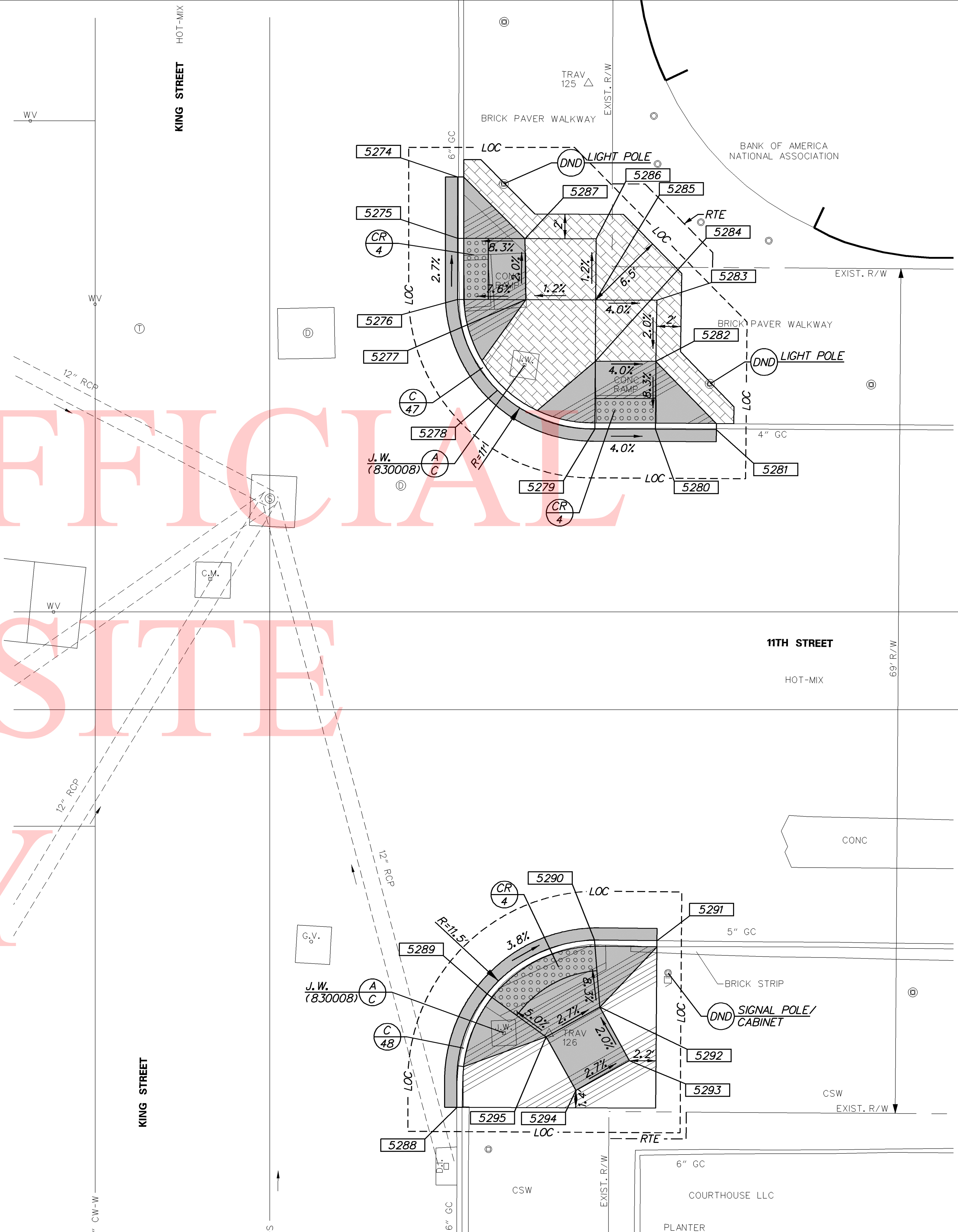
HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
125	946.8347	946.8337	99.31
126	894.4752	1004.373	99.84

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5274	933.7133	945.8310	MATCH EX.
5275	930.4916	949.6801	MATCH EX.
5276	927.2880	953.5191	MATCH EX.
5277	931.5408	957.1098	99.26
5278	925.0241	961.2904	MATCH EX.
5279	929.0816	968.8396	98.81
5280	932.8692	972.0454	98.61
5281	936.6610	975.2586	MATCH EX.
5282	936.4593	967.8066	99.02
5283	939.7277	964.0222	99.12
5284	932.6676	964.6053	99.22
5285	935.9071	960.7964	99.32
5286	939.1464	956.9876	99.26
5287	934.6947	953.2289	99.16
5288	884.8226	1004.1462	MATCH EX.
5289	892.6806	998.6036	MATCH EX.
5290	902.2205	1000.8822	99.37
5291	906.1109	1004.1957	MATCH EX.
5292	899.0327	1005.3652	99.73
5293	898.0891	1010.2753	99.83
5294	893.1722	1009.3304	100.02
5295	894.1159	1004.4203	99.92

NOTES:

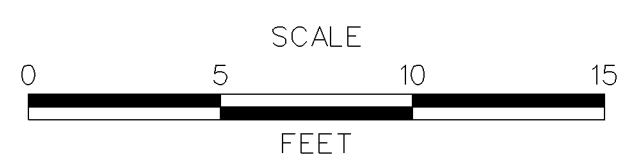
1. REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
2. WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE

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ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

CONSTRUCTION PLAN

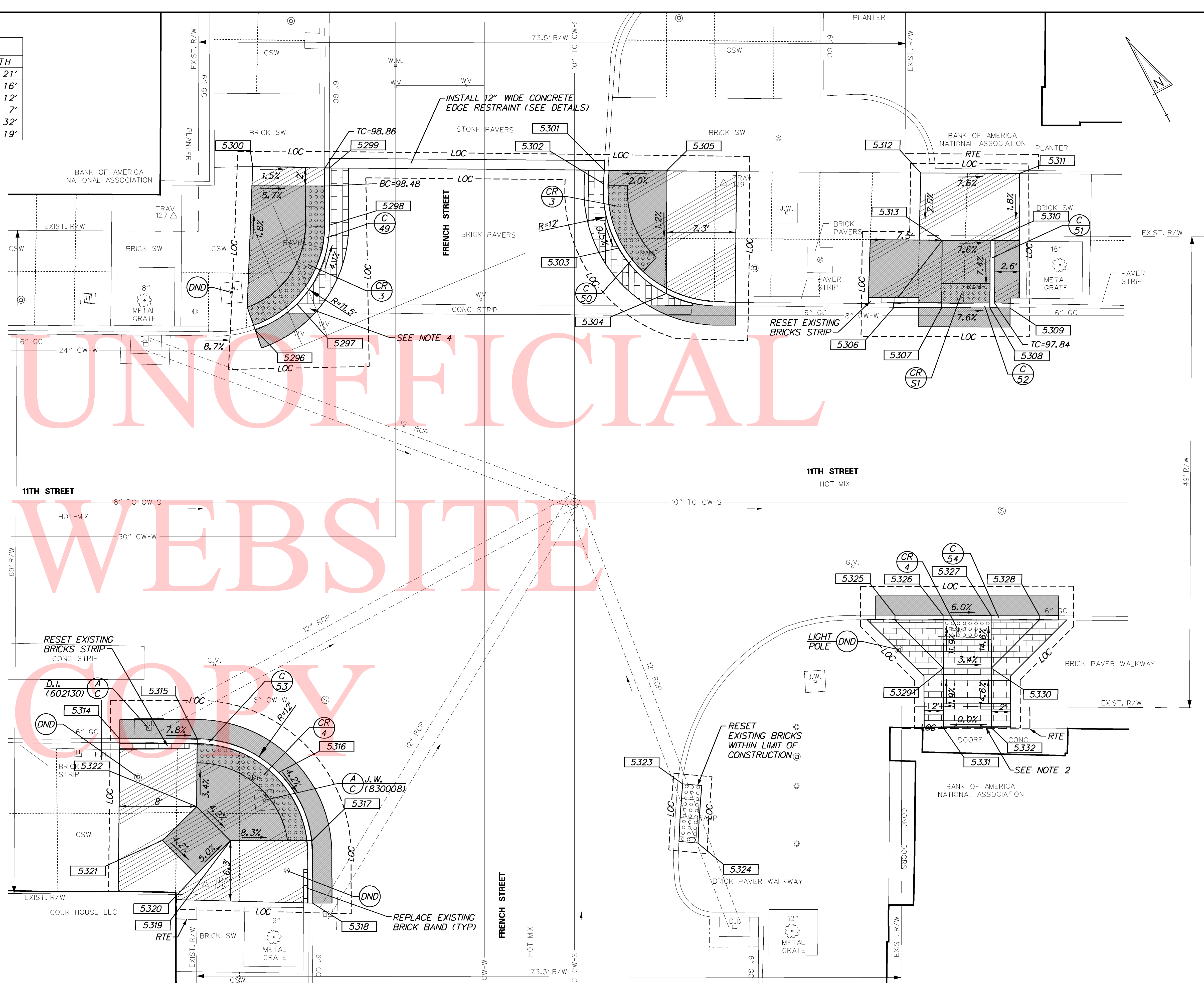
SECTION
RKK
SHEET NO.
15

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
49	STONE CURB	21'
50	STONE CURB	16'
51	STONE CURB	12'
52	STONE CURB	7'
53	STONE CURB	32'
54	STONE CURB	19'

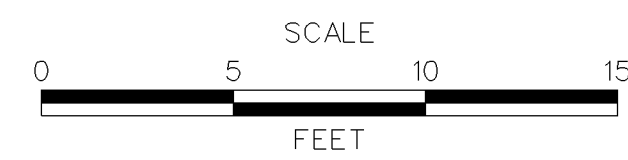
HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
127	1000.0000	1000.0000	100.00
128	1049.2496	1049.2496	100.66
129	1040.0139	958.97234	98.86

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5296	1014.2372	1003.0499	99.01
5297	1015.6163	998.1405	MATCH EX.
5298	1012.6207	989.8053	MATCH EX.
5299	1008.6039	985.4090	98.41
5300	1002.6109	990.6464	98.98
5301	1029.9221	966.3402	98.73
5302	1030.8141	967.4468	MATCH EX.
5303	1036.4763	971.3377	MATCH EX.
5304	1043.3450	971.4848	98.70
5305	1034.7369	962.0635	98.86
5306	1063.6986	954.9447	MATCH EX.
5307	1065.5191	953.3039	97.80
5308	1069.2331	949.9564	97.42
5309	1070.7946	948.5490	MATCH EX.
5310	1064.5466	944.7567	97.93
5311	1062.0833	937.5631	98.10
5312	1054.4182	944.4538	98.44
5313	1060.8326	948.1042	98.32
5314	1032.4401	1044.0151	MATCH EX.
5315	1038.3991	1038.5933	100.23
5316	1047.0171	1035.4842	99.83
5317	1054.3477	1038.4178	99.51
5318	1058.7960	1043.1594	MATCH EX.
5319	1048.0859	1044.1162	100.22
5320	1047.8253	1049.1094	100.43
5321	1042.8262	1048.8486	100.68
5322	1043.0867	1043.8554	100.43
5323	1078.8941	1008.0991	MATCH EX.
5324	1084.2442	1011.5841	MATCH EX.
5325	1083.4436	980.2626	MATCH EX.
5326	1087.1395	976.8963	98.31
5327	1090.8359	973.5295	98.01
5328	1094.5478	970.1672	MATCH EX.
5329	1090.8494	980.9567	98.91
5330	1094.5459	977.5898	98.74
5331	1095.0265	985.5283	98.65
5332	1098.7451	982.1858	98.64

- NOTES:**
- REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
 - MATCH SIDEWALK TO EXISTING FINISHED FLOOR ELEVATION.
 - WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE.
 - REPLACE EXISTING CONCRETE STRIP AT CROSSWALK IN KIND.



ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

CONSTRUCTION PLAN

SECTION	RRK
SHEET NO.	16

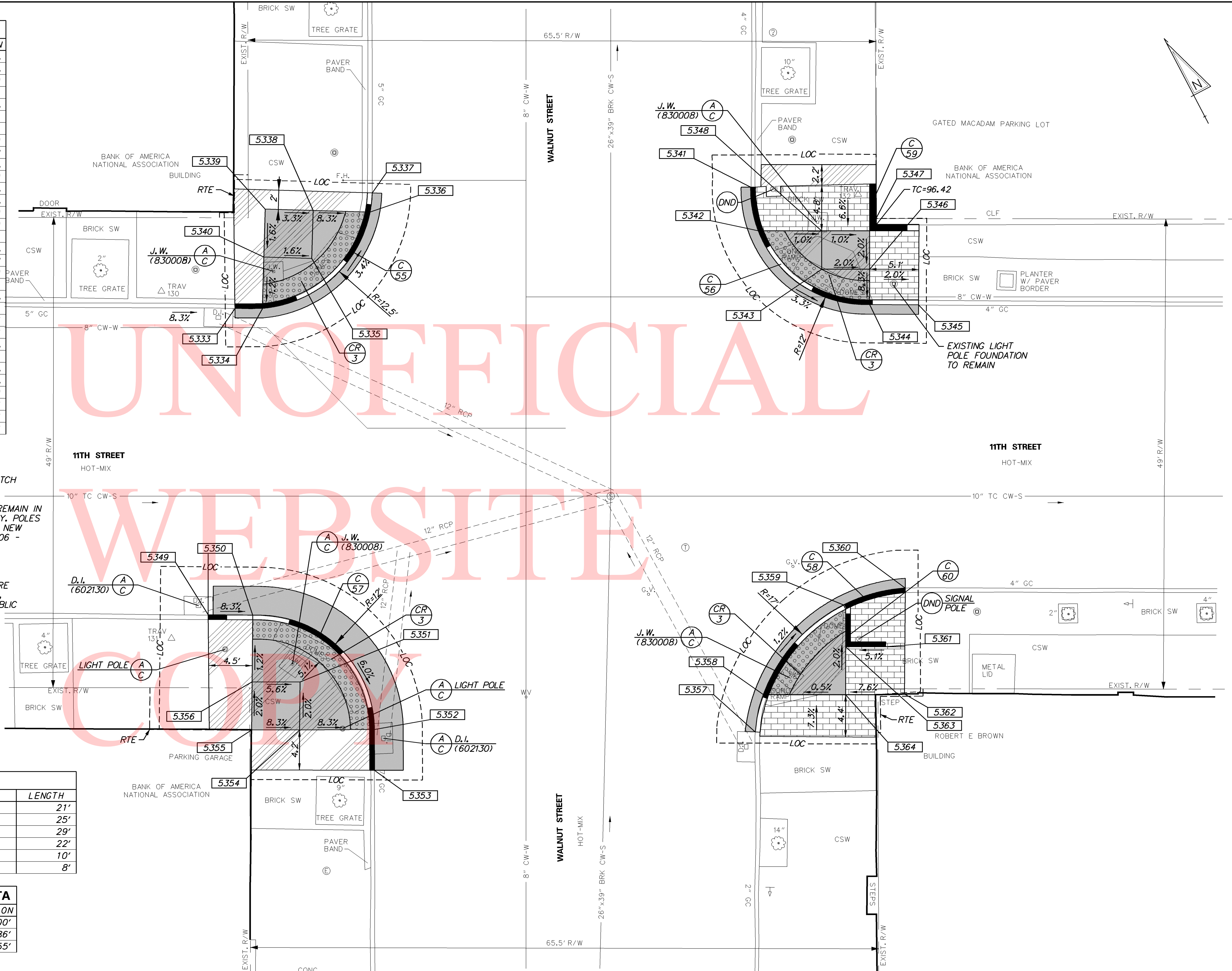
COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5333	1206.8127	1196.0455	MATCH EX.
5334	1208.9002	1194.0603	MATCH EX.
5335	1209.0539	1186.7632	98.70
5336	1210.1624	1179.0910	98.21
5337	1208.9568	1177.4759	MATCH EX.
5338	1205.7335	1183.0249	98.71
5339	1201.9952	1186.3453	98.87
5340	1205.3156	1190.0836	98.80
5341	1237.2384	1149.9565	96.42
5342	1240.9456	1152.7207	MATCH EX.
5343	1248.4916	1151.1006	96.20
5344	1254.6672	1150.3459	MATCH EX.
5345	1258.3972	1146.8663	MATCH EX.
5346	1252.1355	1147.6626	96.10
5347	1249.3905	1144.7532	96.20
5348	1245.7466	1148.1911	96.25
5349	1226.6894	1221.1955	MATCH EX.
5350	1230.0975	1218.0358	98.72
5351	1238.4759	1219.7186	98.50
5352	1247.5043	1217.9892	97.75
5353	1250.4374	1221.0836	MATCH EX.
5354	1241.8653	1223.3945	98.41
5355	1238.2096	1226.8056	98.83
5356	1234.8201	1223.1297	98.78
5357	1276.5632	1190.9182	MATCH EX.
5358	1274.5205	1187.5056	96.04
5359	1274.1634	1174.9854	MATCH EX.
5360	1277.6370	1169.2806	MATCH EX.
5361	1280.3487	1175.1327	96.20
5362	1285.1638	1177.3731	96.18
5363	1277.3131	1177.9968	95.98
5364	1280.7443	1181.6336	96.08

NOTES:

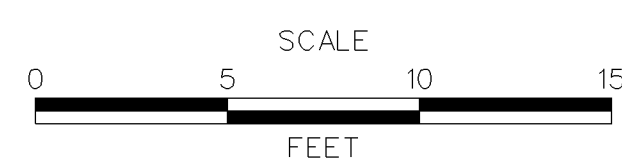
- REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
- LIGHT AND PEDESTRIAN POLES TO BE ADJUSTED WILL REMAIN IN SAME LOCATION BUT NEED TO BE ADJUSTED VERTICALLY. POLES THAT REQUIRE FOUNDATION REPLACEMENT ARE NOTED. NEW FOUNDATIONS ARE TO BE PAID FOR UNDER ITEM 834006 - POLE BASE TYPE 6.
- WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE
- DO NOT DISTURB EXISTING STEPS.

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
55	STONE CURB	21'
56	STONE CURB	25'
57	STONE CURB	29'
58	STONE CURB	22'
59	PCC CURB, TYPE 1-6	10'
60	PCC CURB, TYPE 1-4	8'

HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
130	1200.0000	1200.0000	100.00'
131	1225.5942	1225.5985	99.86'
132	1245.9090	1142.8070	96.55'



ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT T201906105	BRIDGE NO. X
COUNTY NEW CASTLE	DESIGNED BY: MAG
	CHECKED BY: CDW

CONSTRUCTION PLAN

SECTION RKK
SHEET NO. 17

1/17/2019 4:09:12 PM \\BALSRV01\2014\14144_DELD011707\TASK 7C - ADA DESIGN\02_11TH_ST\CADD\CONTRACT\PLANS\CP12_11TH_WALNUT.DGN

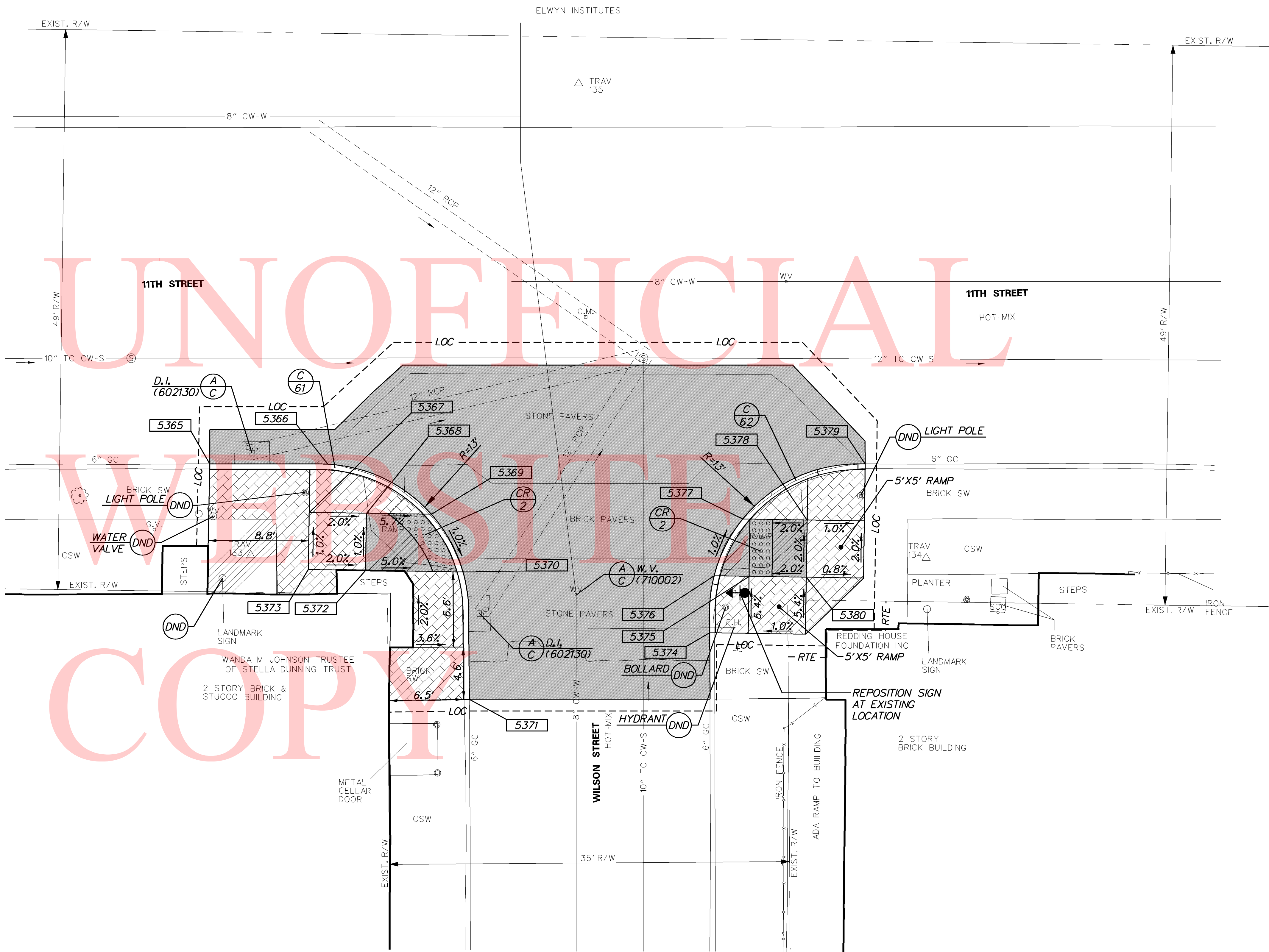
CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
61	STONE CURB	38'
62	STONE CURB	23'

HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
133	2000.0000	2000.0000	100.00'
134	2041.7690	2041.7690	98.28'
135	2049.4370	1990.8910	99.02'

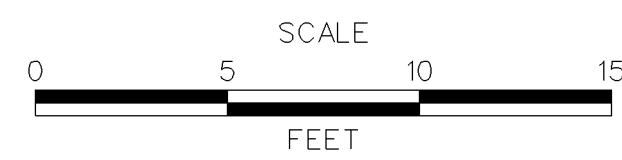
COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5365	2003.0885	1991.8027	MATCH EX.
5366	2010.4035	1999.0990	MATCH EX.
5367	2006.2777	2000.9421	99.55
5368	2009.7735	2004.5169	99.45
5369	2013.7502	2008.5834	99.12
5370	2012.1566	2014.1053	99.07
5371	2004.6971	2022.4190	MATCH EX.
5372	2006.1987	2008.0127	99.50
5373	2002.7029	2004.4379	99.60
5374	2023.7197	2033.0811	MATCH EX.
5375	2029.6477	2031.9992	98.43
5376	2027.5125	2029.8082	98.38
5377	2032.7763	2028.0395	98.33
5378	2036.7183	2032.0782	98.43
5379	2043.7852	2032.1609	MATCH EX.
5380	2033.1435	2035.5740	98.53

NOTE:

- REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
- DO NOT DISTURB EXISTING STEPS.
- WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE



ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY:	MAG
COUNTY	CHECKED BY:	CDW
NEW CASTLE		

CONSTRUCTION PLAN

SECTION	RKK
SHEET NO.	18

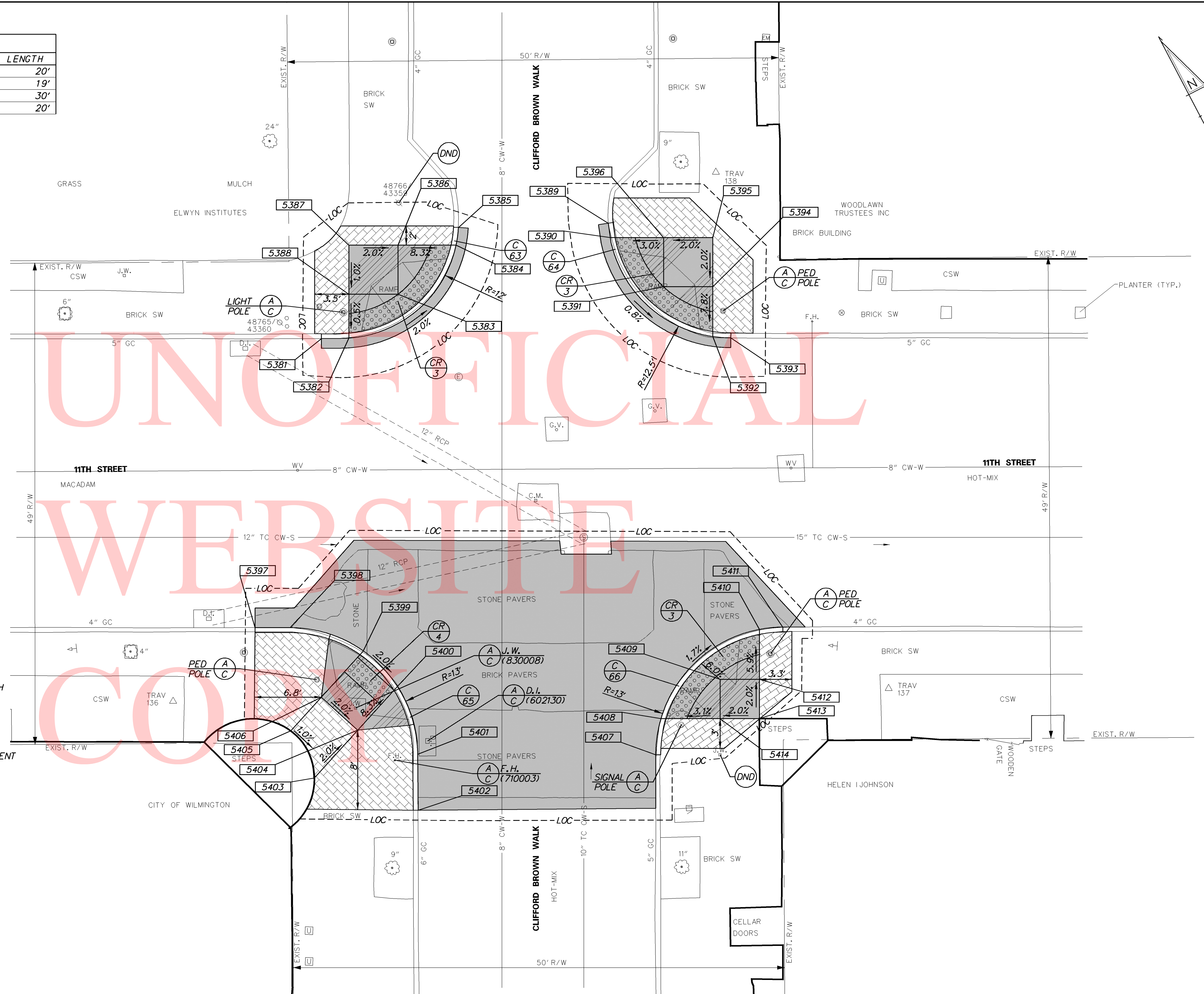
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CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
63	STONE CURB	20'
64	STONE CURB	19'
65	STONE CURB	30'
66	STONE CURB	20'

HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
136	1400.0000	1400.0000	100.00
137	1451.4987	1451.5012	98.06
138	1477.1272	1402.3513	98.25

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5381	1437.0505	1385.2224	MATCH EX.
5382	1439.0303	1387.1910	MATCH EX.
5383	1445.7184	1387.6867	98.98
5384	1453.4185	1388.4674	99.58
5385	1454.8724	1387.4017	MATCH EX.
5386	1449.3171	1384.2154	99.03
5387	1445.8458	1380.6168	99.13
5388	1442.2471	1384.0881	99.08
5389	1465.7726	1398.0717	MATCH EX.
5390	1464.8611	1399.2402	MATCH EX.
5391	1465.0332	1406.6207	98.15
5392	1464.8571	1413.7376	MATCH EX.
5393	1466.0358	1415.1553	MATCH EX.
5394	1468.5045	1410.2193	98.25
5395	1472.1031	1406.7480	98.35
5396	1468.6319	1403.1494	98.25
5397	1411.1834	1400.8002	MATCH EX.
5398	1413.6436	1403.3514	MATCH EX.
5399	1417.1298	1410.3674	98.88
5400	1416.9349	1415.3756	98.78
5401	1413.3863	1421.6588	MATCH EX.
5402	1409.3134	1425.6514	MATCH EX.
5403	1404.3374	1415.7571	99.45
5404	1410.9191	1415.5578	99.30
5405	1406.1241	1410.7007	99.50
5406	1410.7677	1410.5601	99.40
5407	1430.1746	1439.1390	MATCH EX.
5408	1433.1897	1436.9649	MATCH EX.
5409	1440.2429	1438.5154	98.29
5410	1446.6881	1437.8560	98.12
5411	1448.5154	1439.4126	MATCH EX.
5412	1443.0200	1441.3943	98.39
5413	1440.1410	1444.1713	98.49
5414	1437.3640	1441.2924	98.39

- NOTE:**
- REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
 - DO NOT DISTURB EXISTING STEPS.
 - LIGHT AND PEDESTRIAN POLES TO BE ADJUSTED WILL REMAIN IN SAME LOCATION BUT NEED TO BE ADJUSTED VERTICALLY. POLES THAT REQUIRE FOUNDATION REPLACEMENT ARE NOTED. NEW FOUNDATIONS ARE TO BE PAID FOR UNDER ITEM 834006 - POLE BASE TYPE 6.



ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

CONSTRUCTION PLAN

SECTION	RKK
SHEET NO.	19

1/17/2019 4:10:06 PM \\BALSRV01\2014\14144_DELD011707\TASK 7C - ADA DESIGN\02_11TH_ST\CADD\CONTRACT\PLANS\CP14_11TH_CLIFFORDBROWN.DGN

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
67	STONE CURB	32'
68	STONE CURB	20'
69	STONE CURB	24'
70	STONE CURB	22'

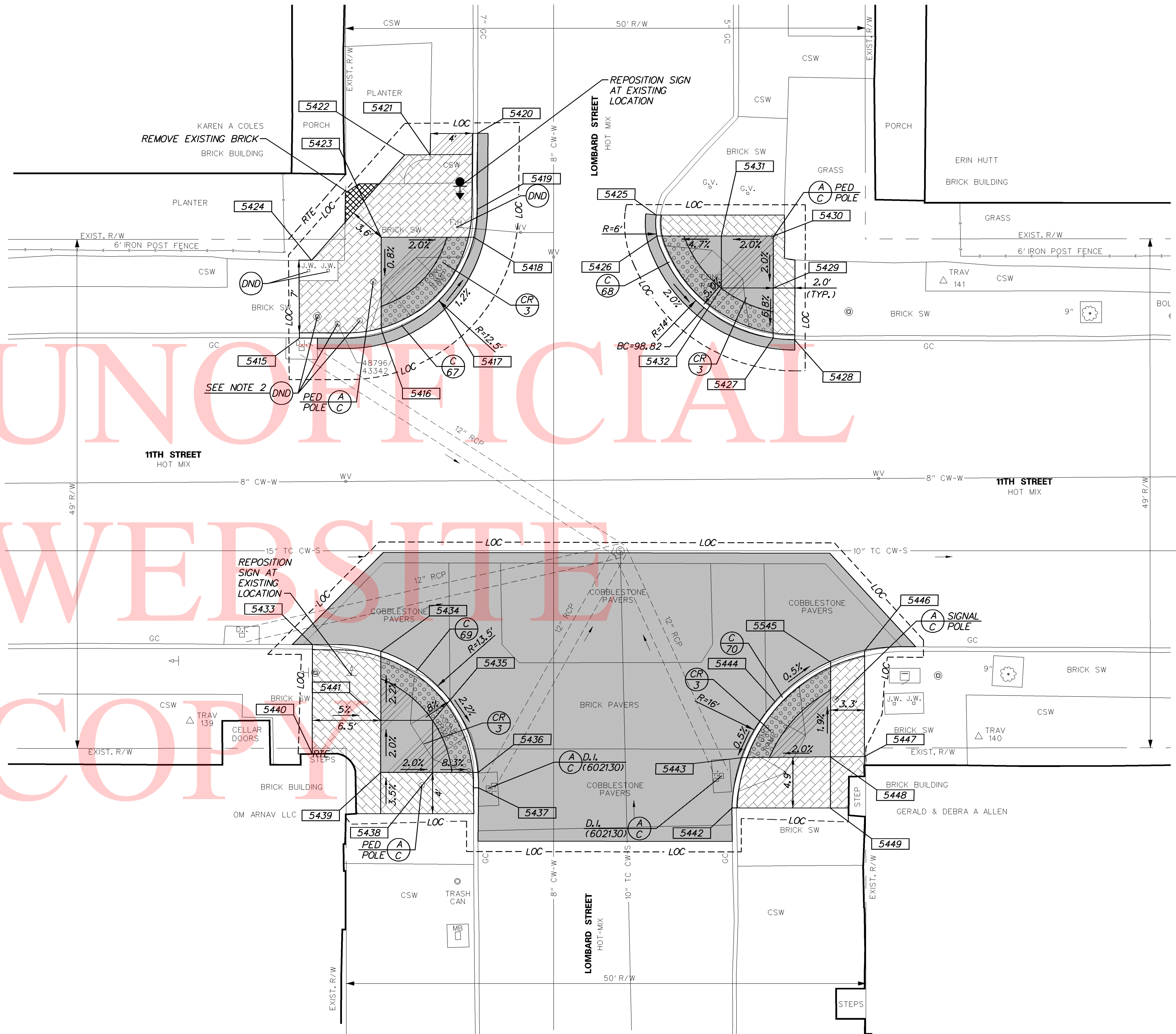
HORIZONTAL / VERTICAL CONTROL DATA

POINT	NORTHING	EASTING	ELEVATION
139	1500.0000	1500.0000	100.00
140	1553.6958	1553.6951	99.05
141	1559.2346	1399.9347	100.55

COORDINATE LIST

POINT	NORTHING	EASTING	ELEVATION
5415	1533.1544	1480.7288	MATCH EX.
5416	1539.2472	1485.9396	98.93
5417	1545.3741	1487.4263	98.87
5418	1551.9743	1485.3663	98.82
5419	1554.0664	1483.6456	MATCH EX.
5420	1559.1878	1478.4053	MATCH EX.
5421	1554.4663	1476.7291	98.74
5422	1552.6685	1475.0264	98.80
5423	1545.5607	1479.1883	99.00
5424	1539.1981	1476.1339	MATCH EX.
5425	1566.1176	1495.9734	MATCH EX.
5426	1564.7800	1497.4761	98.75
5427	1566.0319	1512.3173	98.72
5428	1567.4230	1513.8769	MATCH EX.
5429	1569.3760	1508.8456	99.02
5430	1572.8448	1505.2446	99.12
5431	1569.2437	1501.7758	99.02
5432	1565.7750	1505.3769	98.92
5433	1513.6260	1502.8796	MATCH EX.
5434	1517.9175	1507.9043	99.33
5435	1516.8984	1516.1694	99.36
5436	1516.5739	1522.7992	99.13
5437	1515.5884	1523.9014	MATCH EX.
5438	1513.4296	1519.7704	99.46
5439	1509.8286	1516.3016	99.56
5440	1506.3182	1510.4630	MATCH EX.
5441	1513.2974	1512.7006	99.46
5442	1531.8309	1542.1950	MATCH EX.
5443	1535.8370	1539.3338	98.90
5444	1541.9216	1537.6681	98.95
5445	1548.4108	1538.5575	98.90
5446	1551.5426	1540.0868	MATCH EX.
5447	1544.4496	1547.4502	MATCH EX.
5448	1542.0753	1545.2127	99.07
5449	1538.6525	1548.7661	MATCH EX.

- NOTE:**
- REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
 - CLEAN UP AROUND EXISTING UTILITY POLES AND INSTALL NEW BRICK AS NECESSARY.
 - DO NOT DISTURB EXISTING STEPS.
 - WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE.
 - LIGHT AND PEDESTRIAN POLES TO BE ADJUSTED WILL REMAIN IN SAME LOCATION BUT NEED TO BE ADJUSTED VERTICALLY. POLES THAT REQUIRE FOUNDATION REPLACEMENT ARE NOTED. NEW FOUNDATIONS ARE TO BE PAID FOR UNDER ITEM 834006 - POLE BASE TYPE 6.



ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

CONSTRUCTION PLAN

SECTION	RKK
SHEET NO.	20

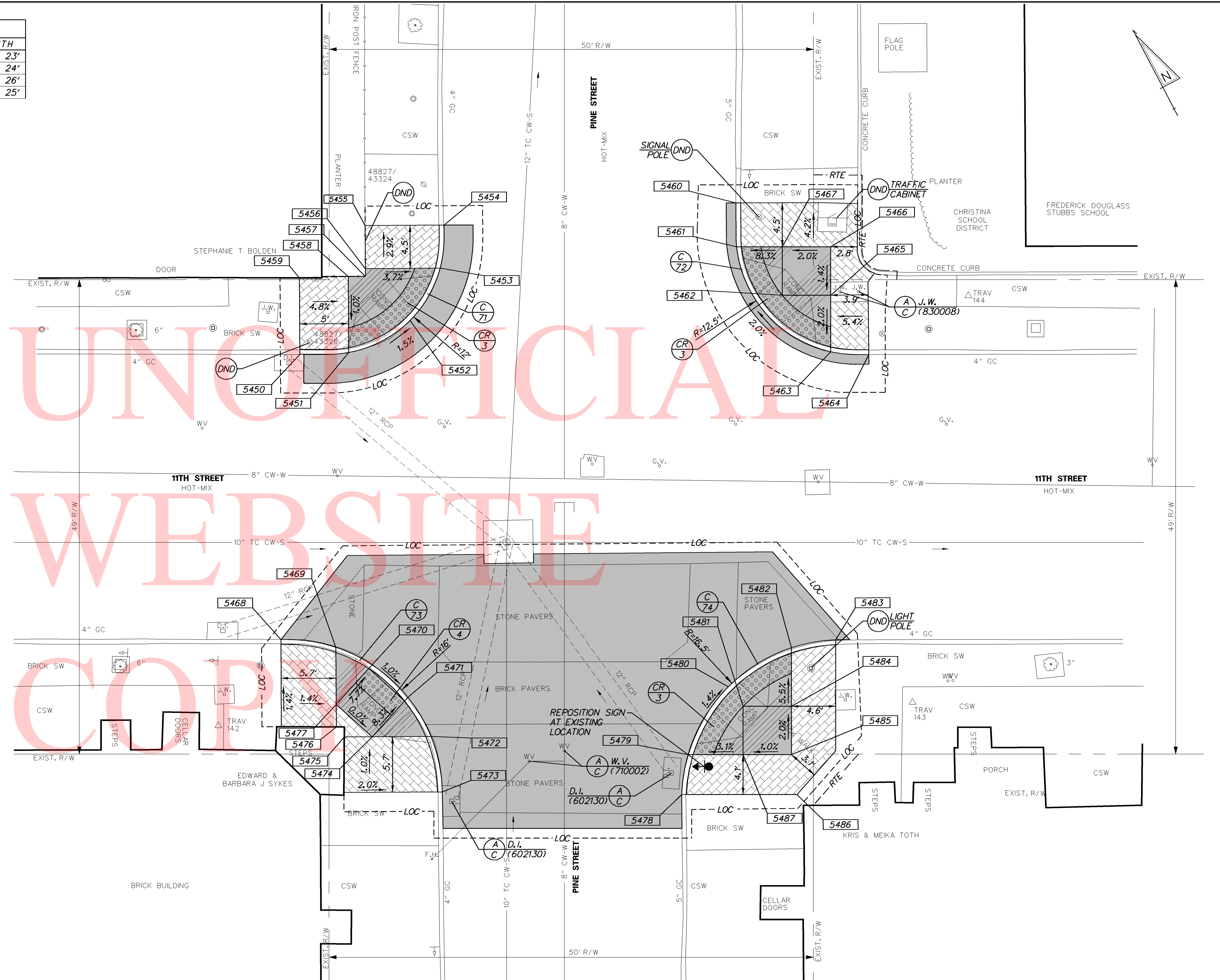
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CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
71	STONE CURB	23'
72	STONE CURB	24'
73	STONE CURB	26'
74	STONE CURB	25'

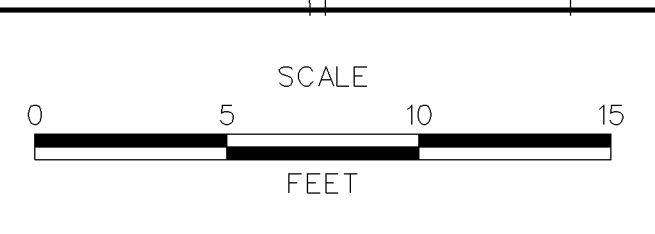
HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
142	1600.0000	1600.0000	100.00
143	1650.7023	1650.7043	98.89
144	1685.3178	1626.2281	98.50

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5450	1633.7522	1579.9478	MATCH EX.
5451	1637.3399	1583.5006	98.95
5452	1644.1107	1585.8602	98.79
5453	1650.1484	1584.4506	98.63
5454	1653.6744	1581.7048	MATCH EX.
5455	1648.0838	1575.7869	MATCH EX.
5456	1644.8515	1578.8437	98.90
5457	1644.2691	1579.3945	98.98
5458	1643.0580	1578.0978	99.05
5459	1639.5017	1574.5154	MATCH EX.
5460	1675.9302	1602.1571	MATCH EX.
5461	1672.6604	1605.2996	98.03
5462	1672.2339	1612.1651	98.30
5463	1671.3868	1619.8016	98.37
5464	1673.8611	1622.8706	MATCH EX.
5465	1675.6484	1615.8177	98.40
5466	1679.3010	1612.4033	98.47
5467	1675.8865	1608.7507	98.37
5468	1610.9078	1598.6346	MATCH EX.
5469	1614.1950	1603.3364	99.34
5470	1615.4289	1607.2848	99.28
5471	1615.5106	1612.2842	99.23
5472	1614.1767	1616.7891	99.17
5473	1610.7833	1621.5520	MATCH EX.
5474	1610.7833	1621.5520	99.77
5475	1608.0240	1610.2778	99.82
5476	1608.2257	1608.9765	99.83
5477	1609.9231	1607.3726	99.80
5478	1627.4833	1639.7889	MATCH EX.
5479	1630.9249	1637.4666	98.88
5480	1638.8756	1635.7047	98.78
5481	1638.4520	1638.1969	98.94
5482	1646.2813	1637.7225	98.69
5483	1649.9904	1640.4928	MATCH EX.
5484	1641.8665	1641.8495	98.99
5485	1638.2139	1645.2640	99.09
5486	1635.5922	1648.4868	99.36
5487	1634.7994	1641.6114	99.04

- NOTE:**
- REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
 - WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE.
 - DO NOT DISTURB EXISTING STEPS.



ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT T201906105	BRIDGE NO. X
COUNTY NEW CASTLE	DESIGNED BY: MAG
	CHECKED BY: CDW

CONSTRUCTION PLAN	SECTION RKK
	SHEET NO. 21

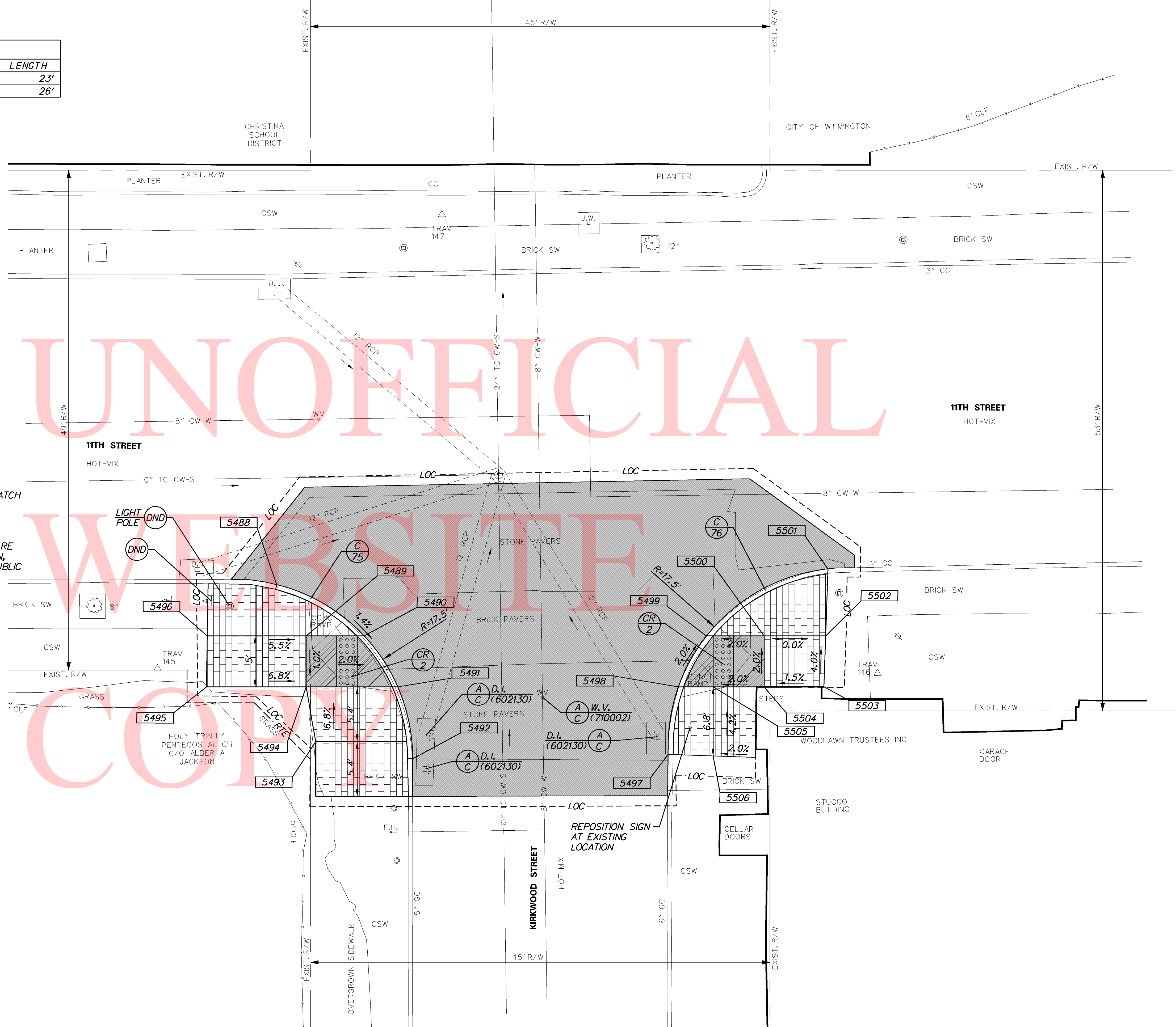
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CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
75	STONE CURB	23'
76	STONE CURB	26'

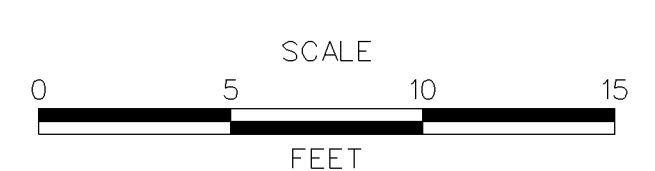
HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
145	1700.0000	1700.0000	100.00
146	1749.8765	1749.8780	98.78
147	1751.0919	1687.9075	99.30

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5488	1714.0898	1702.3428	MATCH EX.
5489	1712.6127	1707.9371	99.30
5490	1716.6656	1711.9375	99.20
5491	1715.4924	1717.8050	99.10
5492	1711.5687	1723.8428	MATCH EX.
5493	1705.9915	1715.9812	99.60
5494	1709.1003	1711.4955	99.25
5495	1702.1573	1704.6423	99.93
5496	1705.7235	1701.1369	99.85
5497	1729.6809	1741.1187	MATCH EX.
5498	1735.0522	1737.1118	98.69
5499	1740.5278	1735.4912	98.64
5500	1744.5438	1739.4552	98.80
5501	1753.5987	1739.1731	MATCH EX.
5502	1748.8313	1743.6872	98.75
5503	1745.2117	1747.1145	98.95
5504	1741.0314	1743.0137	98.86
5505	1737.4729	1739.5012	98.75
5506	1732.7111	1744.3239	99.02

- NOTES:**
- REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
 - WHERE A RIGHT TO ENTER (RTE) LINE IS DESIGNATED ON THE PLANS, IT INDICATES A LOCATION WHERE THE DEPARTMENT ALREADY HAS THE RIGHT UNDER DELAWARE CODE TO ENTER ONTO PRIVATE PROPERTY TO MAINTAIN, REPAIR OR RECONSTRUCT FACILITIES USED BY THE PUBLIC AND MAINTAINED AT PUBLIC EXPENSE.
 - DO NOT DISTURB EXISTING STEPS.



ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

CONSTRUCTION PLAN

SECTION	RKK
SHEET NO.	22

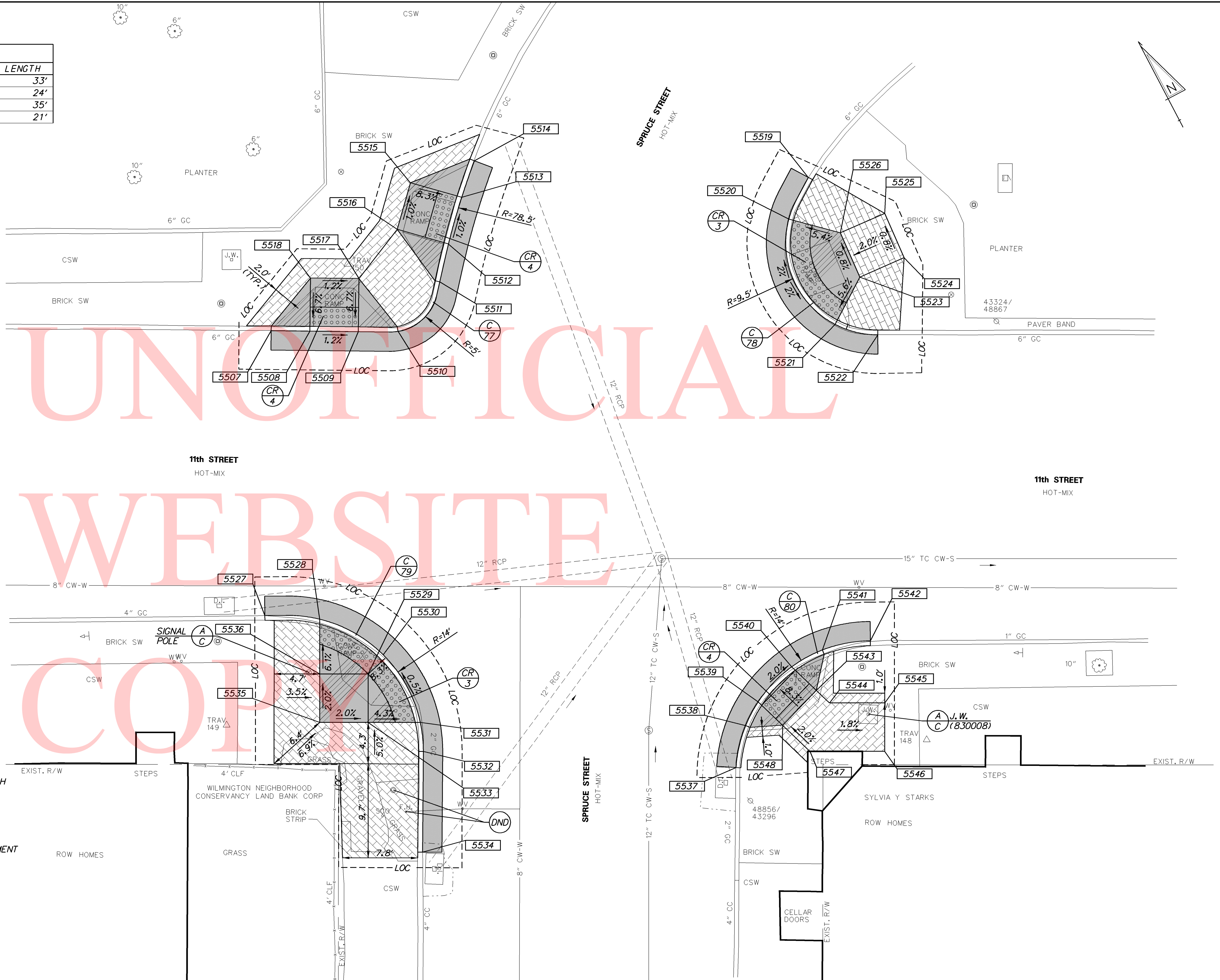
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CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
77	STONE CURB	33'
78	STONE CURB	24'
79	STONE CURB	35'
80	STONE CURB	21'

HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
148	1800.0000	1800.0000	100.00
149	1851.1122	1851.1060	98.72
150	1841.9480	1774.2686	99.30

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5507	1831.5001	1773.7842	MATCH EX.
5508	1834.3592	1776.5816	MATCH EX.
5509	1837.9331	1780.0784	MATCH EX.
5510	1840.9157	1782.8797	MATCH EX.
5511	1847.5591	1782.1687	MATCH EX.
5512	1850.9261	1779.9655	98.65
5513	1855.2444	1777.4402	98.60
5514	1858.7944	1775.6286	MATCH EX.
5515	1852.4679	1772.6922	99.01
5516	1848.1495	1775.2175	99.06
5517	1841.7795	1776.1471	99.29
5518	1838.2056	1772.6504	99.35
5519	1882.4871	1800.7223	MATCH EX.
5520	1878.0561	1802.4300	98.12
5521	1873.9796	1813.5834	98.15
5522	1876.4153	1817.4164	MATCH EX.
5523	1879.1922	1811.8287	98.43
5524	1883.8884	1813.5451	98.53
5525	1885.6048	1808.8489	98.49
5526	1880.9086	1807.1325	98.39
5527	1810.6746	1794.5684	MATCH EX.
5528	1814.5061	1798.7535	99.20
5529	1814.2030	1806.2944	99.41
5530	1816.6986	1805.9286	99.25
5531	1814.6236	1813.6244	99.30
5532	1812.7741	1816.0076	MATCH EX.
5533	1810.7427	1809.9036	99.51
5534	1805.5175	1823.4693	MATCH EX.
5535	1807.1335	1806.4432	99.61
5536	1810.5939	1802.8341	99.51
5537	1834.9213	1839.5464	MATCH EX.
5538	1838.6326	1837.1063	MATCH EX.
5539	1841.2747	1836.2230	98.68
5540	1846.2700	1836.0058	98.58
5541	1849.7574	1836.9542	98.50
5542	1853.9779	1839.6929	MATCH EX.
5543	1846.4201	1839.5147	98.83
5544	1846.5010	1841.4063	98.79
5545	1850.6133	1845.3504	98.70
5546	1847.1523	1848.9590	98.87
5547	1841.5913	1843.6255	99.01
5548	1841.4246	1839.7283	98.93

- NOTE:**
1. REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
 2. DO NOT DISTURB EXISTING STEPS.
 3. LIGHT AND PEDESTRIAN POLES TO BE ADJUSTED WILL REMAIN IN SAME LOCATION BUT NEED TO BE ADJUSTED VERTICALLY. POLES THAT REQUIRE FOUNDATION REPLACEMENT ARE NOTED. NEW FOUNDATIONS ARE TO BE PAID FOR UNDER ITEM 834006 - POLE BASE TYPE 6.



ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

CONSTRUCTION PLAN

SECTION	RKK
SHEET NO.	23

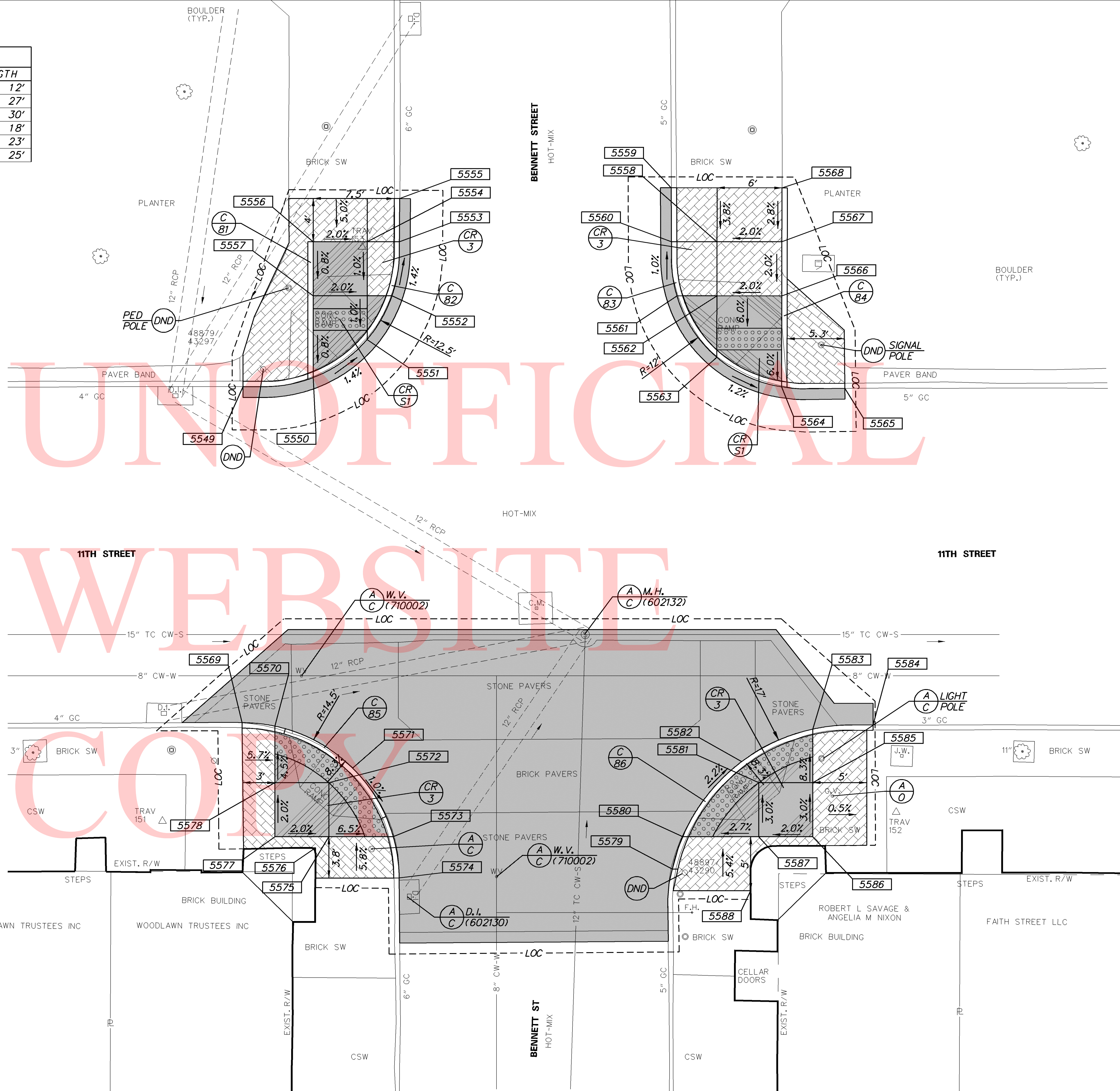
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CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
81	STONE CURB	12'
82	STONE CURB	27'
83	STONE CURB	30'
84	STONE CURB	18'
85	STONE CURB	23'
86	STONE CURB	25'

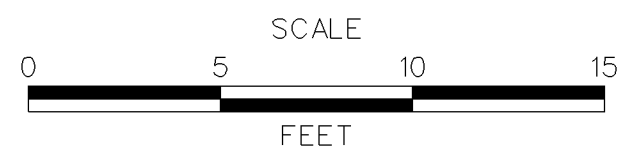
HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
151	1900.0000	1900.0000	100.00
152	1948.0213	1948.0243	98.74
153	1950.9276	1876.1265	99.12

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5549	1933.9671	1877.2423	MATCH EX.
5550	1939.1242	1881.3075	98.91
5551	1945.1206	1882.3990	98.82
5552	1949.6206	1881.2343	98.75
5553	1953.6816	1878.2367	98.69
5554	1951.6067	1876.1108	98.90
5555	1956.5560	1875.4585	MATCH EX.
5556	1948.1143	1872.5327	99.00
5557	1944.5361	1876.0251	98.96
5558	1974.2153	1899.2755	98.68
5559	1974.8369	1892.7513	MATCH EX.
5560	1971.2705	1896.2584	98.47
5561	1968.0484	1900.1143	98.52
5562	1970.6272	1902.7655	98.68
5563	1966.5640	1906.7177	98.40
5564	1968.7834	1912.9290	98.32
5565	1972.7705	1917.2162	MATCH EX.
5566	1974.8106	1907.0665	98.78
5567	1978.4062	1903.5692	98.78
5568	1981.9790	1900.0941	MATCH EX.
5569	1911.6561	1898.9171	MATCH EX.
5570	1913.5449	1901.2970	99.39
5571	1915.8050	1909.1632	99.33
5572	1913.2930	1908.5296	99.50
5573	1913.8807	1916.2901	99.24
5574	1911.5268	1919.3560	MATCH EX.
5575	1909.7149	1912.0221	99.60
5576	1908.1274	1911.8648	99.78
5577	1906.2225	1908.4439	99.70
5578	1909.8006	1904.9515	99.60
5579	1929.7730	1936.8640	MATCH EX.
5580	1932.5914	1935.4566	98.66
5581	1941.0840	1936.9992	98.69
5582	1941.3775	1934.5144	98.52
5583	1948.1161	1937.1223	98.42
5584	1952.2977	1940.8464	MATCH EX.
5585	1944.5764	1940.5773	98.79
5586	1940.9983	1944.0697	98.94
5587	1937.5058	1940.4916	98.84
5588	1933.4092	1943.4528	99.10

- NOTE:**
- REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).
 - DO NOT DISTURB EXISTING STEPS.
 - LIGHT AND PEDESTRIAN POLES TO BE ADJUSTED WILL REMAIN IN SAME LOCATION BUT NEED TO BE ADJUSTED VERTICALLY. POLES THAT REQUIRE FOUNDATION REPLACEMENT ARE NOTED. NEW FOUNDATIONS ARE TO BE PAID FOR UNDER ITEM 834006 - POLE BASE TYPE 6.



ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY:	MAG
COUNTY	CHECKED BY:	CDW
NEW CASTLE		

CONSTRUCTION PLAN

SECTION	RKK
SHEET NO.	24

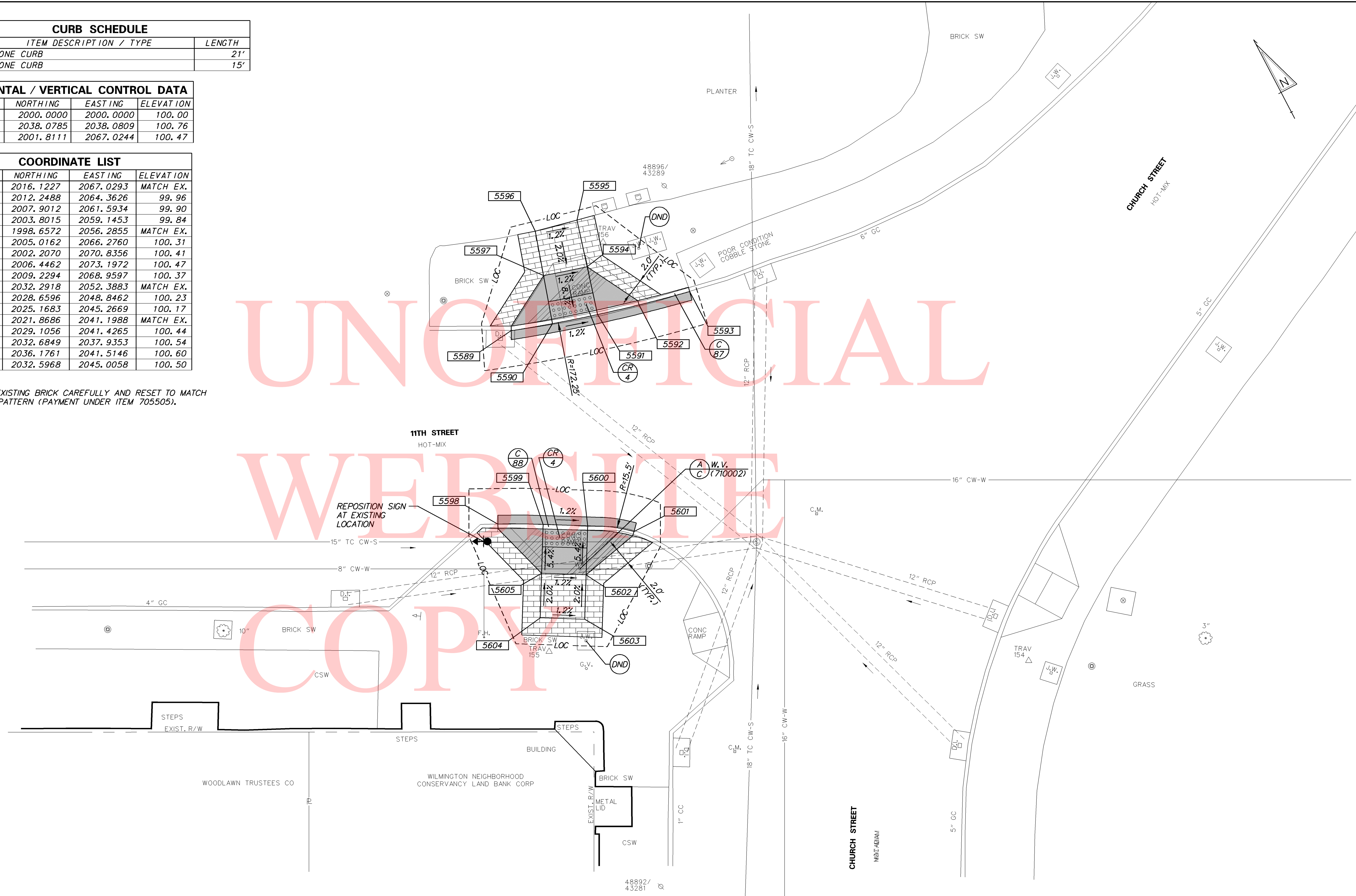
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CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
87	STONE CURB	21'
88	STONE CURB	15'

HORIZONTAL / VERTICAL CONTROL DATA			
POINT	NORTHING	EASTING	ELEVATION
154	2000.0000	2000.0000	100.00
155	2038.0785	2038.0809	100.76
156	2001.8111	2067.0244	100.47

COORDINATE LIST			
POINT	NORTHING	EASTING	ELEVATION
5589	2016.1227	2067.0293	MATCH EX.
5590	2012.2488	2064.3626	99.96
5591	2007.9012	2061.5934	99.90
5592	2003.8015	2059.1453	99.84
5593	1998.6572	2056.2855	MATCH EX.
5594	2005.0162	2066.2760	100.31
5595	2002.2070	2070.8356	100.41
5596	2006.4462	2073.1972	100.47
5597	2009.2294	2068.9597	100.37
5598	2032.2918	2052.3883	MATCH EX.
5599	2028.6596	2048.8462	100.23
5600	2025.1683	2045.2669	100.17
5601	2021.8686	2041.1988	MATCH EX.
5602	2029.1056	2041.4265	100.44
5603	2032.6849	2037.9353	100.54
5604	2036.1761	2041.5146	100.60
5605	2032.5968	2045.0058	100.50

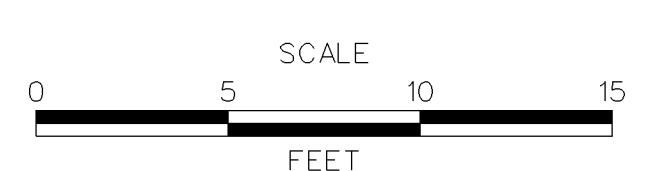
NOTE:
 1. REMOVE EXISTING BRICK CAREFULLY AND RESET TO MATCH EXISTING PATTERN (PAYMENT UNDER ITEM 705505).



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ADDENDA / REVISIONS

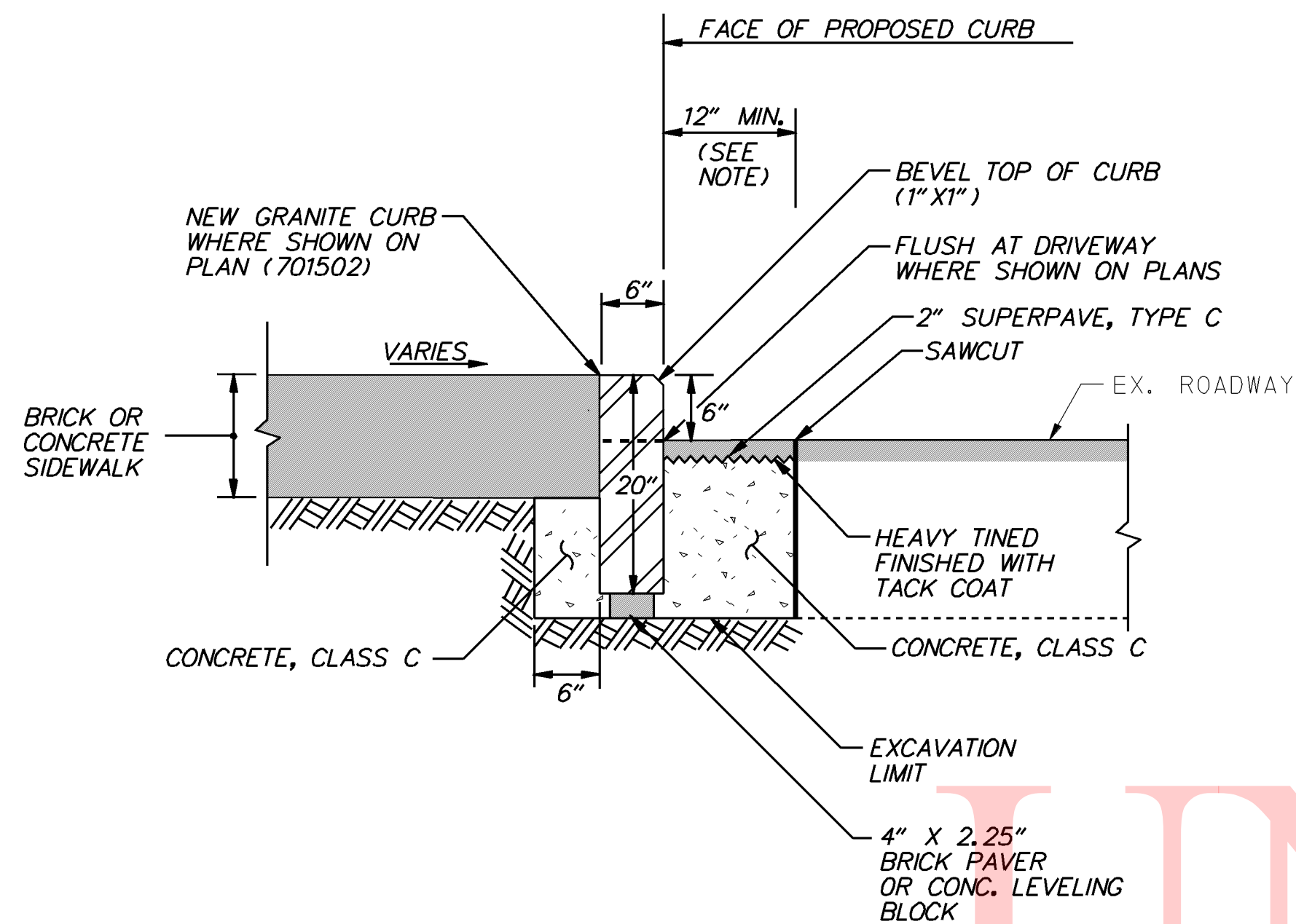


**PAVEMENT AND REHABILITATION
 NORTH V, CITY OF WILMINGTON
 11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY:	MAG
COUNTY	CHECKED BY:	CDW
NEW CASTLE		

CONSTRUCTION PLAN

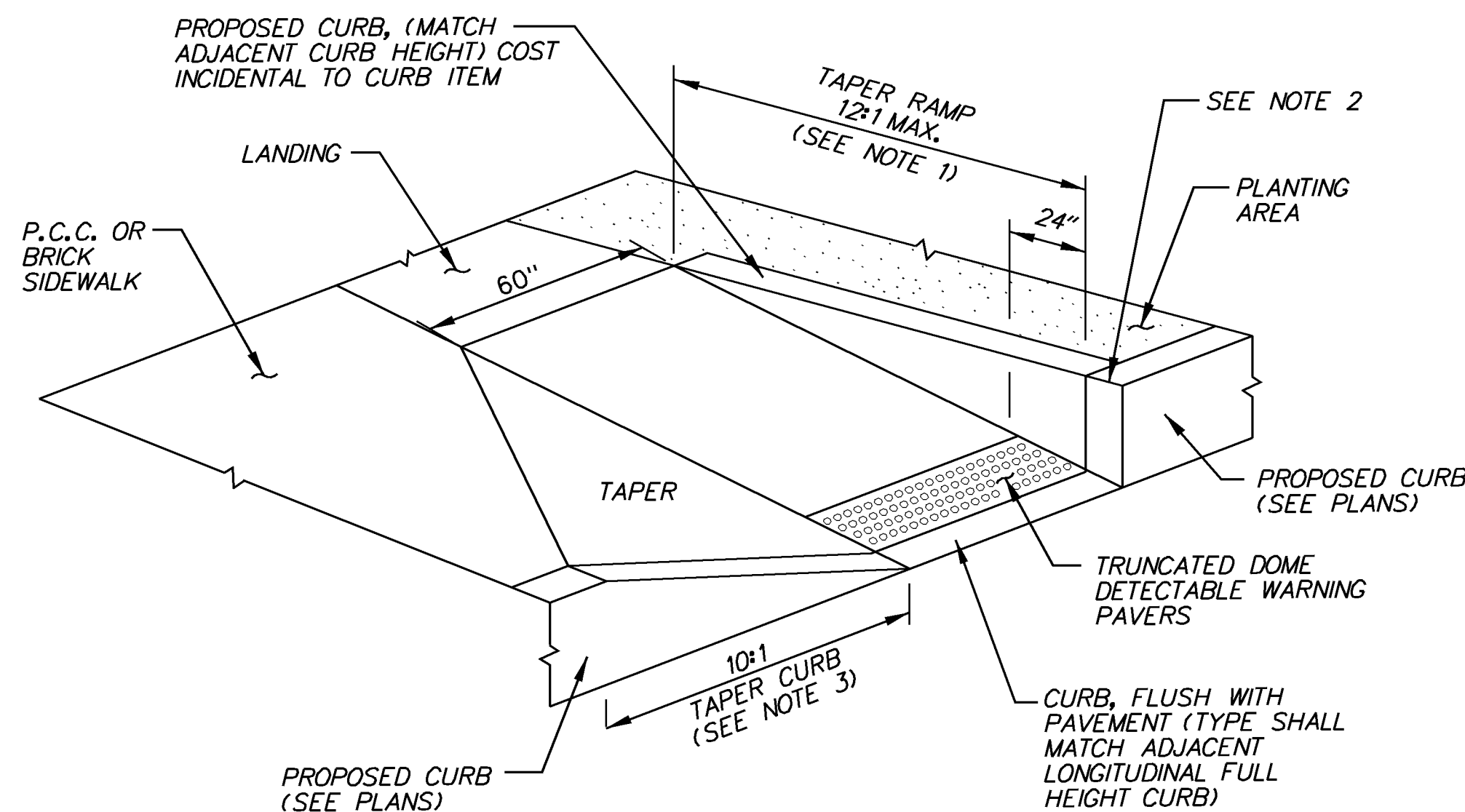
SECTION
RKK
SHEET NO.
25



6" STONE CURB (ITEM 701502)

NOTE:

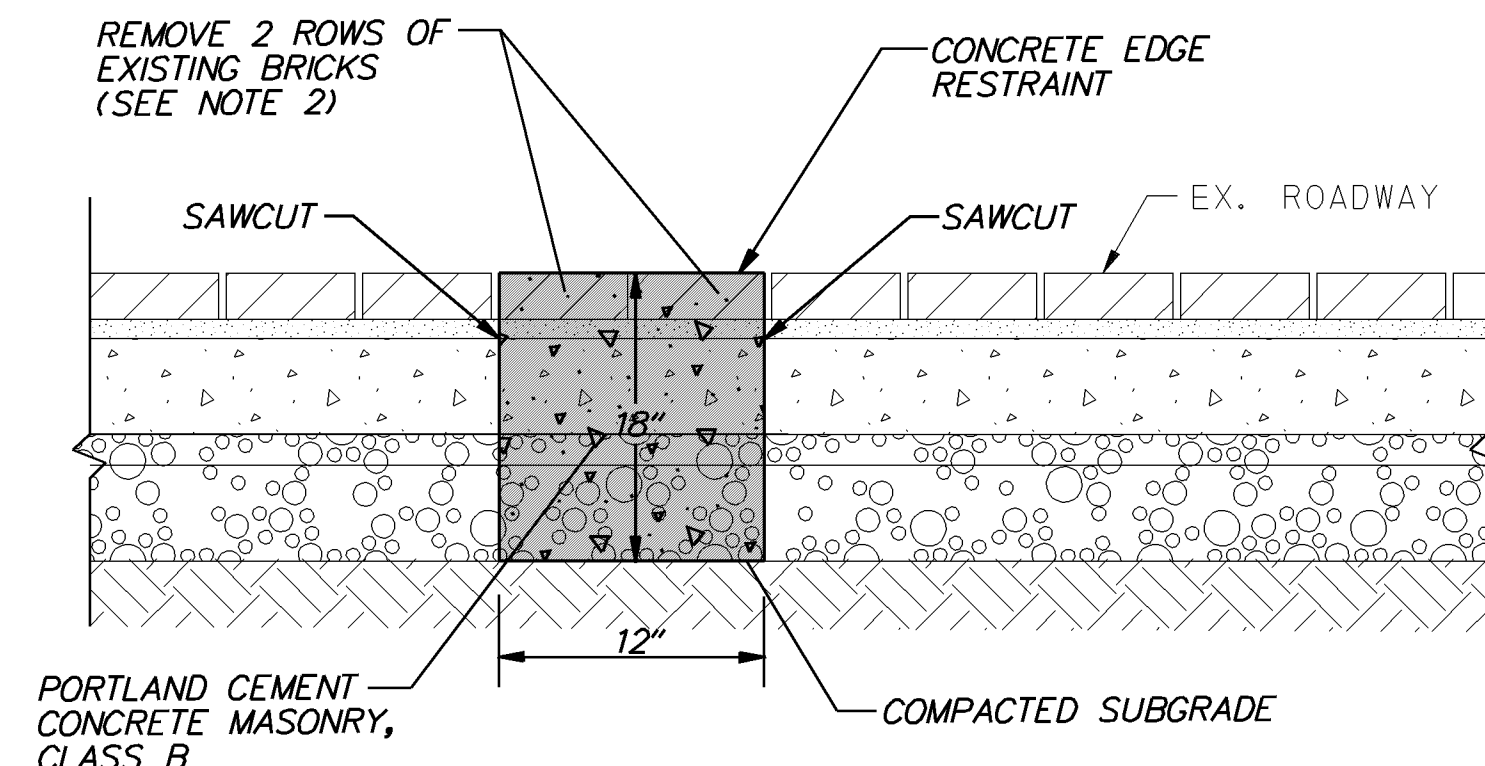
1. WIDTH OF CONCRETE SHALL BE 12" MINIMUM, HOWEVER WIDTH OF PAVEMENT PATCH SHALL MATCH THE CONSTRUCTION PLANS.



CR S1 CURB RAMP, SPECIAL 1

NOTES:

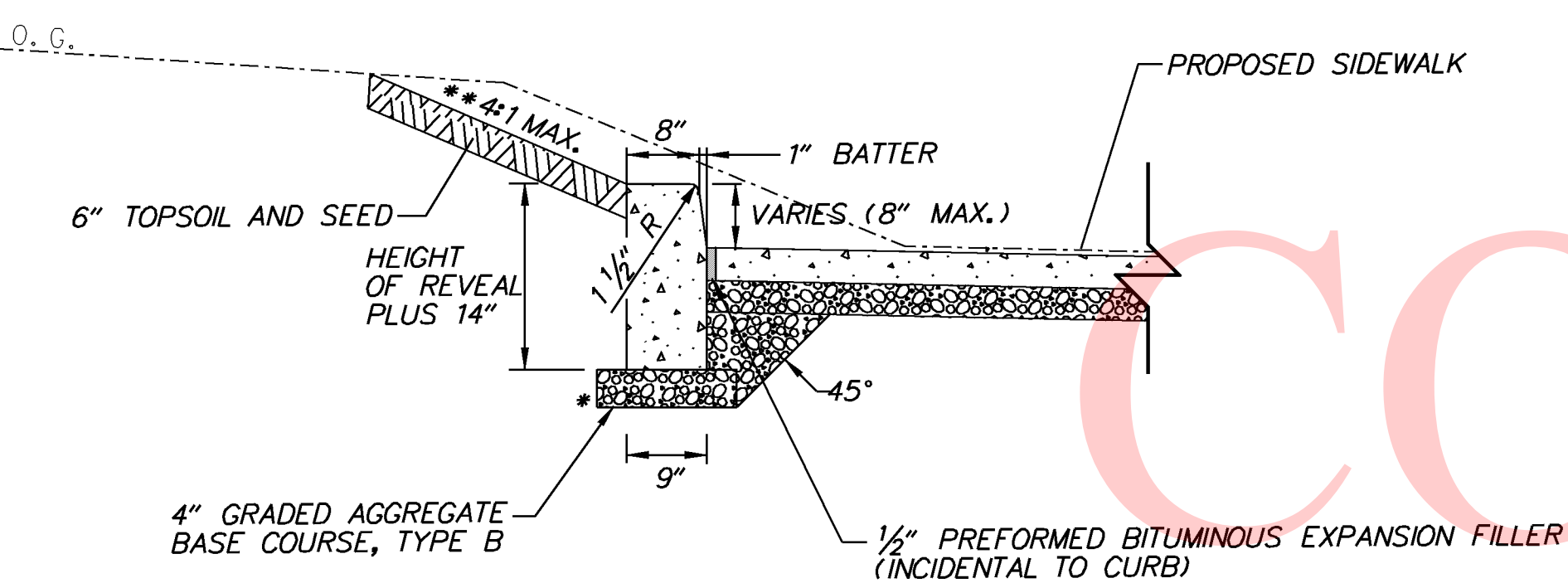
1. WHERE A 12:1 MAXIMUM SLOPE RAMP WILL NOT MEET THE SIDEWALK GRADE WITHIN A LENGTH OF 15' DUE TO STEEP ADJACENT ROADWAY, THE RAMP LENGTH MAY BE LIMITED TO 15', AND THE RAMP SLOPE ALLOWED TO EXCEED 12:1.
2. WHERE CURBS ARE PERPENDICULARLY JOINED, BATTER AND FILLET THE EXPOSED END TO MATCH THE ADJOINING CURB FACE IN ACCORDANCE WITH THE STANDARD CONSTRUCTION DETAILS.
3. CURBS SHALL TRANSITION FROM FULL-HEIGHT TO FLUSH AT A RATE OF 10:1. WHERE THE LENGTH OF TRANSITION WILL BE LESS THAN 2', THE TAPER SHALL BE FLATTER THAN 10:1 IN ORDER TO ATTAIN A 2' TRANSITION LENGTH.



CONCRETE EDGE RESTRAINT - FRENCH STREET

NOTES:

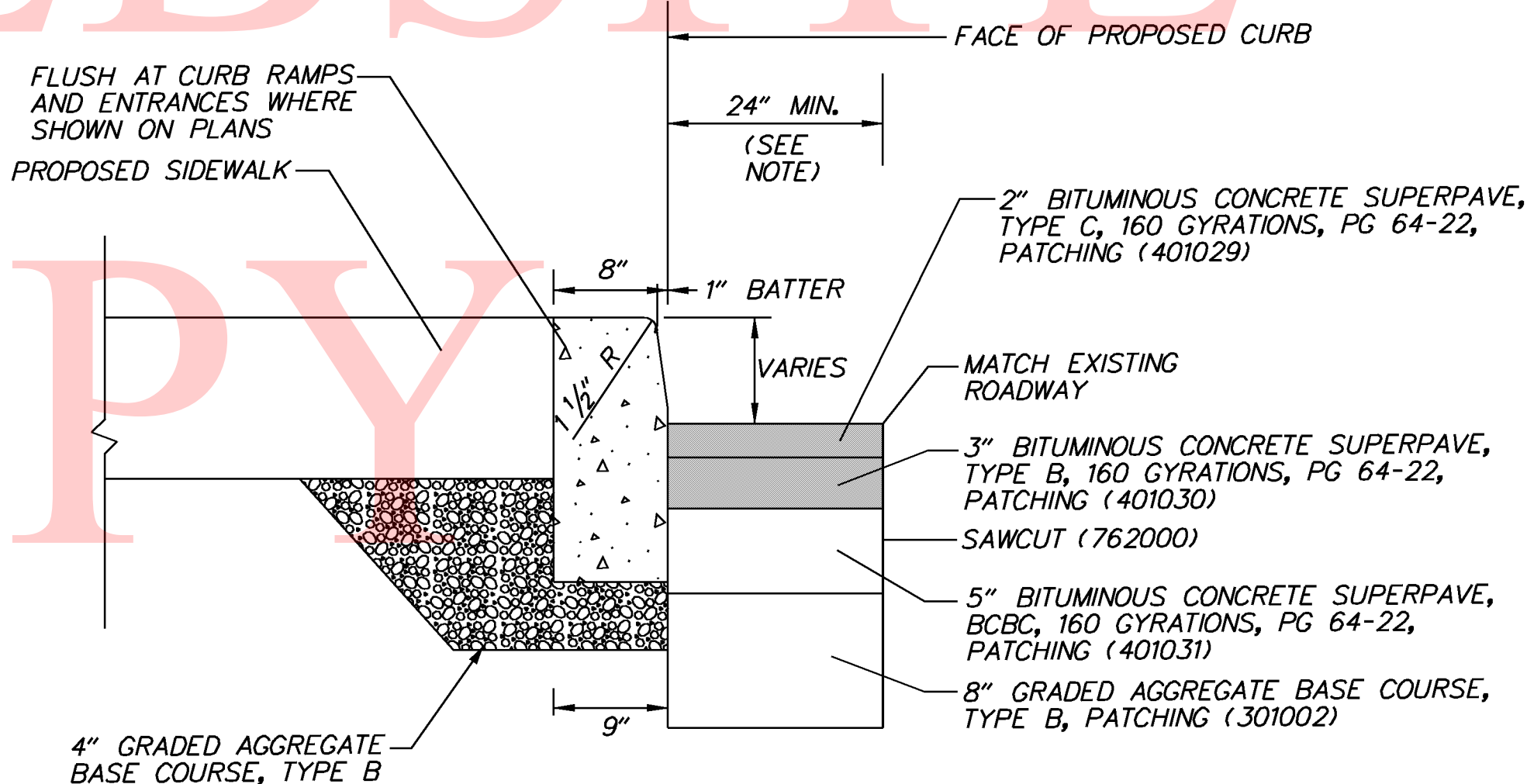
1. REMOVE EXISTING BRICKS AND CONCRETE BASE TO PREPARE SUBGRADE FOR CONCRETE EDGE RESTRAINT.
2. REMOVE AND RESET BRICKS ADJACENT TO THE LOCATION OF THE CONCRETE EDGE RESTRAINT IF NECESSARY. COST FOR REMOVING AND RESETTING BRICKS IS INCIDENTAL TO THE CONSTRUCTION OF THE CONCRETE EDGE RESTRAINT.



SIDEWALK WITH OUTSIDE CURB

NOTES:

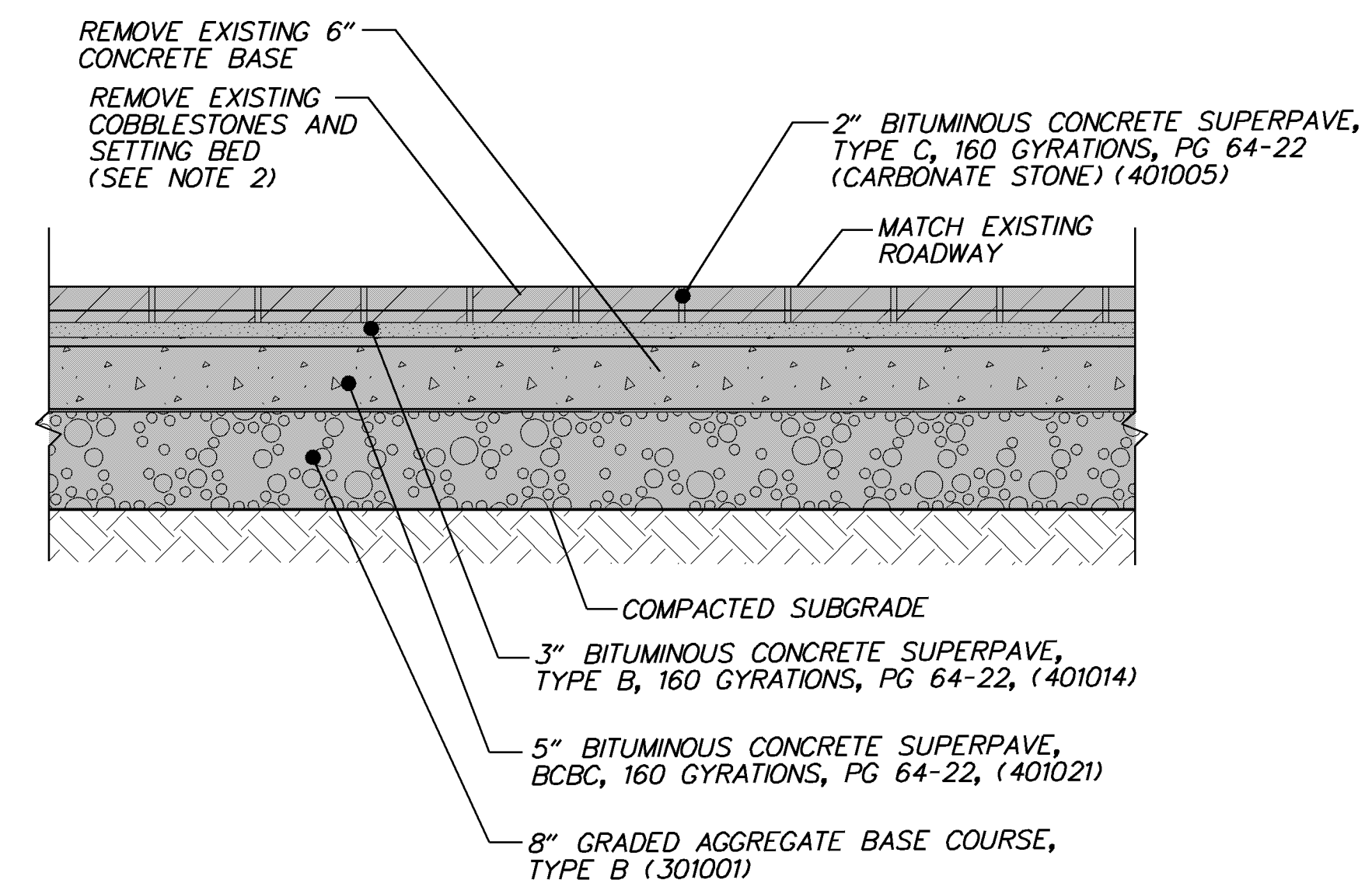
1. THE ADDITIONAL UP-RIGHT CURB PLACED OUTSIDE OF THE SIDEWALK WILL BE PAID UNDER THAT SPECIFIC CURB TYPE ITEM NUMBER.
- * COST OF 4" GRADED AGGREGATE UNDER OUTSIDE CURB, FROM 6" IN FRONT OF CURB FACE TO 6" BEHIND BACK OF CURB WILL BE INCIDENTAL TO THE CURB ITEM NUMBER.
- ** GRADE SHALL MATCH EXISTING SLOPE OR 4:1 MAX.



P.C.C. CURB PAVEMENT RESTORATION

NOTE:

1. WIDTH OF PAVEMENT PATCH SHALL BE 24" MINIMUM, UNLESS OTHERWISE NOTED ON THE CONSTRUCTION PLANS.



COBBLESTONE REMOVAL AND PAVEMENT RESTORATION

NOTES:

1. REMOVE EXISTING COBBLESTONES/BRICKS AND CONCRETE BASE TO PREPARE SUBGRADE FOR PAVEMENT RECONSTRUCTION AREAS AS NOTED ON THE PLANS.
2. ALL EXISTING COBBLESTONES REMOVED SHALL BE CLEANED OF ANY MORTAR, DEBRIS, ETC. THEN SALVAGED AND DELIVERED TO THE CITY OF WILMINGTON'S SITE WITHIN FIVE (5) MILES, CONTACT SAM BASE, 302-576-3861, TO COORDINATE DELIVERIES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 202000.

ADDENDA / REVISIONS

NOT TO SCALE

**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

CONSTRUCTION DETAILS

SECTION	RKK
SHEET NO.	26

TRAFFIC CONTROL - GENERAL NOTES

1. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND LANE SHIFTS SHALL CONFORM TO TYPICAL APPLICATIONS 3, 21, 23, 28, 29 AND 35C OF THE DELAWARE MUTCD.
2. LANE CLOSURES SHALL ONLY BE PERMITTED MONDAY THROUGH FRIDAY BETWEEN THE HOURS OF 9 AM AND 3 PM.
3. ADDITIONAL LANE CLOSURE RESTRICTIONS WILL BE ENFORCED BY THE ENGINEER, IN CONSULTATION WITH THE DISTRICT SAFETY OFFICER, TO ACCOMMODATE PERMITTED PLANNED SPECIAL EVENTS THROUGH THE WORK ZONE. KNOWN EVENTS THAT COULD IMPACT THIS PROJECT INCLUDE:
 - a. DELAWARE RUNNING FESTIVAL MARATHON
 - b. WILMINGTON GRAND PRIX
 - c. CLIFFORD BROWN JAZZ FESTIVAL

THE ENGINEER WILL NOTIFY THE CONTRACTOR OF ADDITIONAL LANE CLOSURE RESTRICTIONS TWO WEEKS PRIOR TO THE START OF THE RESTRICTION.

4. CONCURRENT WORK ON ADJACENT INTERSECTIONS SHALL BE PROHIBITED.
5. THE USE OF MILLINGS AND GRADED AGGREGATE BASE COURSE (GABC) IN THE TRAVEL WAY, TEMPORARY TRAVEL WAY, HIGH VOLUME ENTRANCES AND ACCESS RAMP FOR THE PURPOSE OF PROVIDING A TEMPORARY ROADWAY SURFACE, POTHOLE REPAIR, TAPERED EDGE FOR UTILITIES, BUTT JOINTS AND LONGITUDINAL DROP-OFFS (MILLING AND PAVING OPERATIONS) IS PROHIBITED UNLESS IT IS OTHERWISE DESIGNATED TO BE USED IN THE CONTRACT PLANS. USE COLD PATCH, BITUMINOUS CONCRETE, BITUMINOUS CONCRETE WEDGE, OR TAPER MILL, AS NOTED IN THE CONTRACT DOCUMENTS OR APPROVED BY THE ENGINEER. PAYMENT FOR COLD PATCH, BITUMINOUS CONCRETE OR BITUMINOUS CONCRETE WEDGE SHALL BE PAID AS NOTED IN THE CONTRACT DOCUMENTS. TAPER MILL BITUMINOUS CONCRETE SHALL BE PAID UNDER THE BITUMINOUS CONCRETE MILLING ITEM.

MILLINGS OR GABC SHALL BE USED AT THE FOLLOWING LOCATIONS WHERE ACCESS TO A BUSINESS, RESIDENCE, OR EDGE DROP OFF NEEDS TO BE MAINTAINED UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER TO USE BITUMINOUS CONCRETE OR COLD PATCH. ALL MILLINGS AND GABC WILL BE ROLLED AND COMPACTED TO HELP PREVENT THE MATERIAL FROM UNRAVELING:

 - A. DRIVEWAYS
 - B. ENTRANCES
 - C. LOW VOLUME ACCESS RAMPS (IDENTIFIED IN THE CONTRACT DOCUMENTS)
 - D. EDGE DROP OFFS ADJACENT TO LIVE ROADWAY (LANES AND SHOULDER) AND THE PROPOSED ROAD CONSTRUCTION
 - E. EDGE OF ROADWAY DROP-OFF

GRADING AND MAINTAINING BASE COURSE THAT IS BEING USED FOR ROADWAY WEDGE/FILLET BETWEEN TRAVEL LANES AND PAVEMENT BOX, EDGE OF TRAVELWAY, DRIVEWAY OR ENTRANCE ACCESS SHALL BE INCIDENTAL TO ITEM NO. 801000 - MAINTENANCE OF TRAFFIC. THE BASE COURSE MATERIAL SHALL BE PLACED AT NO GREATER THAN THE SLOPE SPECIFIED IN TABLE 6G-1 OF THE DELAWARE MUTCD AND SHALL BE COMPACTED. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE PAY ITEM. NO SEPARATE PAYMENT SHALL BE MADE FOR MILLINGS OR GABC TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A RESPECTIVE CONTRACT MATERIAL ITEM.

VERTICAL DIFFERENCES SHALL BE CORRECTED IN ACCORDANCE WITH TABLE 6G-1 OF THE DELAWARE MUTCD.

6. ACCEPTABLE MATERIALS FOR TEMPORARY PEDESTRIAN PATHS SHALL INCLUDE CONCRETE, HOT-MIX, COMPACTED MILLINGS OR PLYWOOD WALKWAY STRUCTURE. PLYWOOD WALKWAY STRUCTURES SHALL ALSO INCLUDE DETECTABLE EDGING AND RAILINGS IN ACCORDANCE WITH ADA GUIDELINES AND THE DELAWARE MUTCD. TEMPORARY PEDESTRIAN PATHS SHALL BE INCIDENTAL TO ITEM 813503 - TEMPORARY PEDESTRIAN PATHWAY UNLESS OTHERWISE SPECIFIED IN THE PLANS. STONE OR GRADED AGGREGATE BASE COURSE SHALL NOT BE USED FOR TEMPORARY PEDESTRIAN PATHS.
7. BUS STOPS WITHIN THE LIMITS OF CONSTRUCTION MAY BE CLOSED DURING CERTAIN PERIODS AS REQUIRED TO COMPLETE THE CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE CLOSURES AND/OR TEMPORARY BUS STOP RELOCATIONS WITH DART FIRST STATE. THE CONTRACTOR SHALL PROVIDE DART WITH TWO (2) WEEKS ADVANCE NOTICE OF ANY POTENTIAL CLOSURES.
8. THE CONTRACTOR SHALL COORDINATE WITH THE FOLLOWING AS REQUIRED: CITY OF WILMINGTON - BRIAN MITCHELL, 302-576-3089
9. THE CONTRACTOR SHALL PROVIDE ONE TRAFFIC OFFICER FOR ANY OPERATION WHERE AN EXISTING SIGNALIZED INTERSECTION IS PLACED IN FLASH-MODE. THE TRAFFIC OFFICER IS THE ONLY INDIVIDUAL THAT CAN PLACE A TRAFFIC SIGNAL IN FLASH-MODE AND THE TRAFFIC OFFICER MUST STAY ON LOCATION UNTIL THE SIGNAL IS PLACED BACK IN STOP-AND-GO OPERATION IN ACCORDANCE WITH DELDOT'S TEMPORARY TRAFFIC CONTROL WITHIN INTERSECTIONS MEMORANDUM (WWW.MUTCD.DELDOT.GOV).
10. THE CONTRACTOR SHALL SUBMIT PEDESTRIAN MAINTENANCE OF TRAFFIC PLANS TO THE ENGINEER FOR APPROVAL A MINIMUM OF TWO (2) WEEKS PRIOR TO PLANNED IMPLEMENTATION FOR ANY LOCATION WHERE TA-28, TA-29 OR USING FLAGGERS ALONE MAY NOT APPLY.
11. AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

()	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
(X)	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 743000.
()	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE SUPERVISION OF THE INSTALLATION, OPERATION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT SHALL NOT BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR SHALL BE PAID FOR UNDER ITEM 743031.

TRAFFIC CONTROL - GENERAL SEQUENCE OF CONSTRUCTION

FOR EACH LOCATION:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY TO PROTECT EXISTING DRAINAGE STRUCTURES.
2. COORDINATE ANY UTILITY RELOCATIONS AND ADJUSTMENTS WITH UTILITY COMPANIES.
3. USE TA-21 AND/OR TA-23 TO CLOSE A SINGLE LANE ADJACENT TO THE ACTIVE CONSTRUCTION LOCATION ON 11TH STREET.
4. USE TA-21 AND/OR TA-23 TO CLOSE A SINGLE LANE ADJACENT TO THE ACTIVE CONSTRUCTION LOCATION ON THE INTERSECTING SECONDARY STREET.
5. USE TA-28 OR TA-29 TO DETOUR PEDESTRIANS AROUND ACTIVE CONSTRUCTION LOCATION.
6. CLEAR AND GRUB WORK AREA. INSTALL EROSION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
7. REMOVE EXISTING PAVEMENT, SIDEWALK AND CURB AS REQUIRED WITHIN THE WORK AREA AND ROUGH GRADE TO PROPOSED SUBGRADE.
8. FINAL GRADE AND CONSTRUCT CURB, SIDEWALK, CURB RAMPS AND PAVEMENT PATCHING AS SHOWN ON PLANS. ADJUST PEDESTRIAN POLES AND UTILITIES WITHIN THE WORK AREA.
9. STABILIZE AREA IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATIONS. FOR FULL DEPTH PAVEMENT CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COVERING BARE SOILS AT THE BOTTOM OF ANY EXCAVATED TRENCHES WITHIN THREE (3) CALENDAR DAYS TO PREVENT EROSION WITHIN THE TRENCH. PROPOSED SUBBASE MATERIAL MAY BE USED TO COVER BARE SOILS WITHIN THE TRENCH. REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AS APPROVED BY THE ENGINEER.
10. REMOVE ALL TRAFFIC CONTROL DEVICES FROM WORK AREA BEFORE MOVING TO NEXT INTERSECTION.
11. FOLLOWING ALL CURB RAMP AND SIDEWALK CONSTRUCTION, COMPLETE MILL AND OVERLAY OF 11TH STREET.
12. INSTALL PROPOSED SIGNING AND STRIPING AS SHOWN ON THE PLANS.
13. REMOVE ALL TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE.

SEDIMENT AND STORMWATER MANAGEMENT NOTES

1.

EROSION POTENTIAL FOR THIS PROJECT	CONTRACTOR ESC SUPERVISOR REQUIREMENT
(X) INSIGNIFICANT	NONE
() MINOR	CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
() MAJOR	CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 6.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
2. THE DISTURBED AREA FOR THIS PROJECT IS 0 ACRES.
3. THE ADDITIONAL IMPERVIOUS AREA FOR THIS PROJECT IS 0 SQUARE FEET.

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE
	WORK AREA - PREVIOUSLY CONSTRUCTED

EROSION & SEDIMENT CONTROL	
	DEWATERING BAG
	DEWATERING BASIN
	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE / LENGTH
	SILT FENCE
	SILT FENCE - REINFORCED
	SUMP PIT
	SEDIMENT TRAP / NUMBER
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
	TURBIDITY CURTAIN

ADDENDA / REVISIONS

NOT TO SCALE

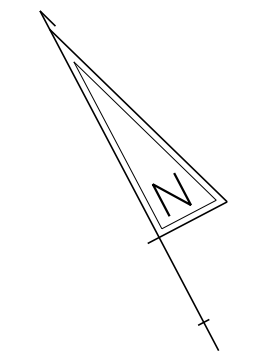
**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: MAG	
COUNTY	CHECKED BY: CDW	
NEW CASTLE		

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN**

SECTION	RKK
SHEET NO.	27

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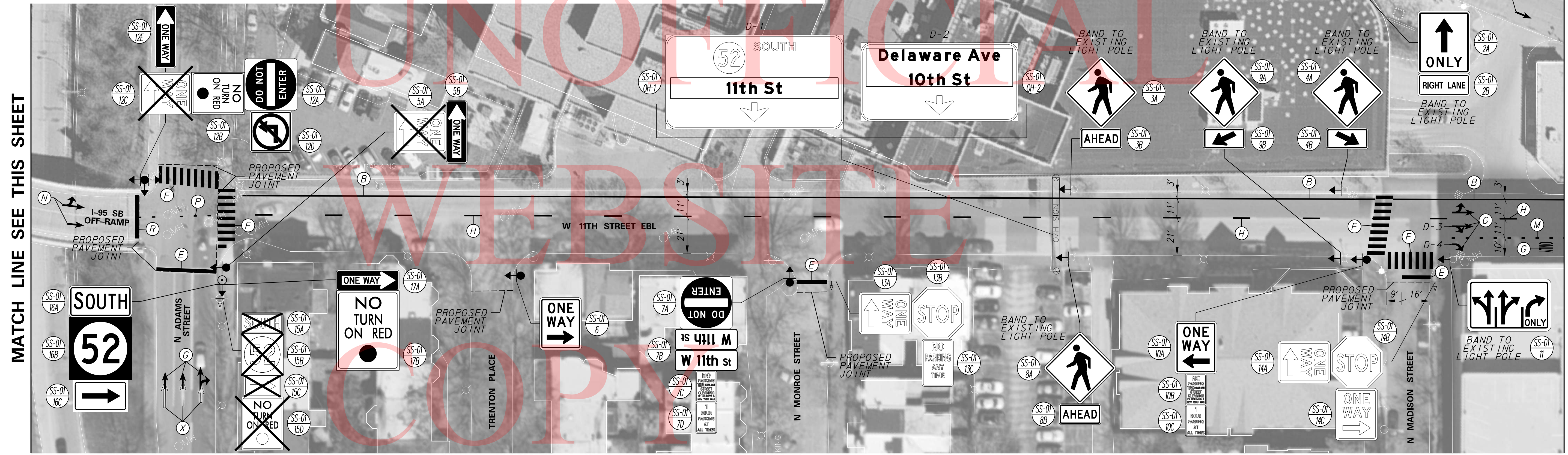


PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAINT (ITEM 817013)	---
(B)	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 817013)	780 LF
(C)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAINT (ITEM 817013)	---
(D)	5" DOTTED WHITE - 2' LINE & 6' GAP EPOXY RESIN PAINT (ITEM 817013)	---
(E)	16" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817002)	92 SF
(F)	24" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817002)	680 SF
(G)	WHITE SYMBOL/LEGEND ALKYD-THERMOPLASTIC PAVEMENT (ITEM 817002)	205 SF
(H)	5" DOTTED WHITE - 10' LINE & 30' GAP EPOXY RESIN PAINT (ITEM 817013)	180 LF
(J)	5" DOTTED YELLOW - 2' LINE & 6' GAP ALKYD-THERMOPLASTIC (ITEM 817005)	---
(K)	PREFORMED BIKE SYMBOL RETROREFLECTIVE THERMOPLASTIC (ITEM 817015)	---

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(L)	10" SOLID WHITE EPOXY RESIN PAINT (ITEM 817014)	---
(M)	10" DOTTED WHITE - 2' LINE & 6' GAP EPOXY RESIN PAINT (ITEM 817014)	20 LF
(N)	PREFORMED SYMBOL/LEGEND RETROREFLECTIVE PATTERNED (ITEM 817012)	82 SF
(O)	PREFORMED HANDICAP SYMBOL RETROREFLECTIVE THERMOPLASTIC (ITEM 817017)	---
(P)	5" DOTTED WHITE - 2' LINE & 6' GAP ALKYD-THERMOPLASTIC (ITEM 817005)	10 LF
(R)	16" SOLID WHITE, RETROREFLECTIVE PREFORMED PATTERNED MARKINGS (ITEM 817012)	34 SF
(T)	5" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817005)	---
(U)	12" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817006)	---
(X)	REMOVAL OF PAVEMENT STRIPING (ITEM 817031)	83 SF

SIGNING & STRIPING NOTE:

THE CONTRACTOR SHALL REFER TO APPLICABLE NOTES UNDER THE MISCELLANEOUS SECTION ON SHEET NO. 5 (NOTES).



MATCH LINE SEE THIS SHEET

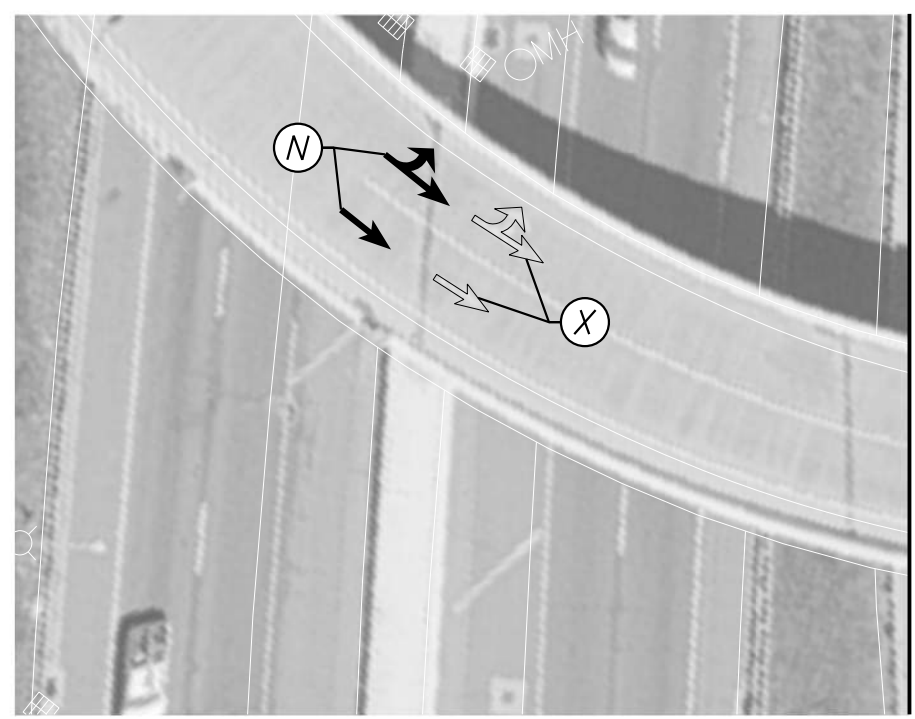
MATCH LINE SEE SHEET SS-02

DETAIL #1 (D-1)

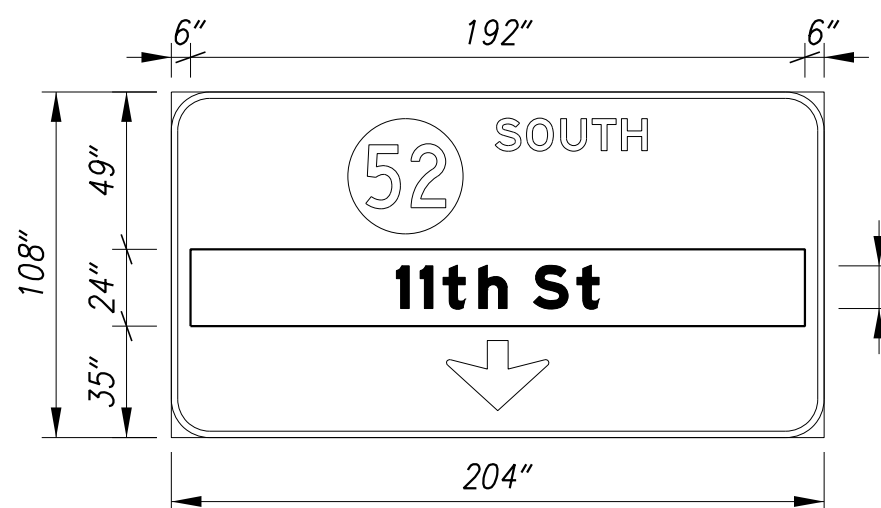
DETAIL #2 (D-2)

DETAIL #3 (D-3)

DETAIL #4 (D-4)



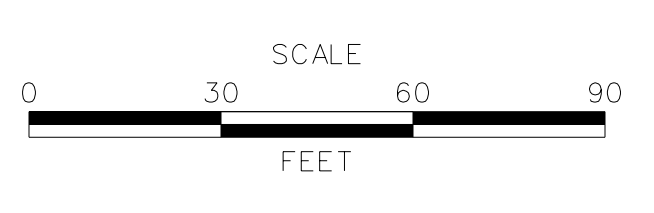
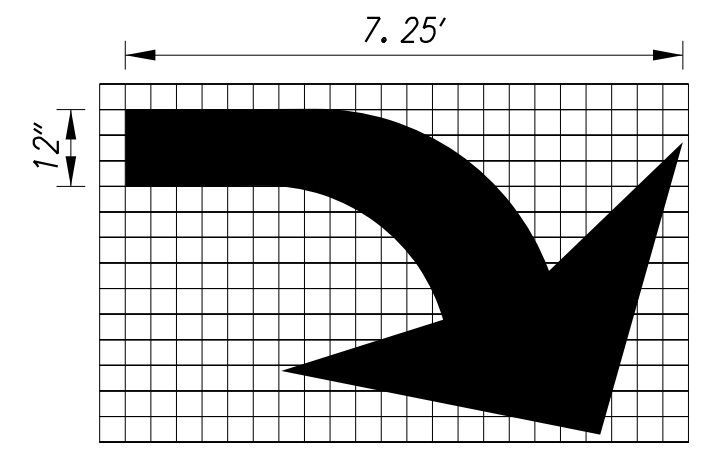
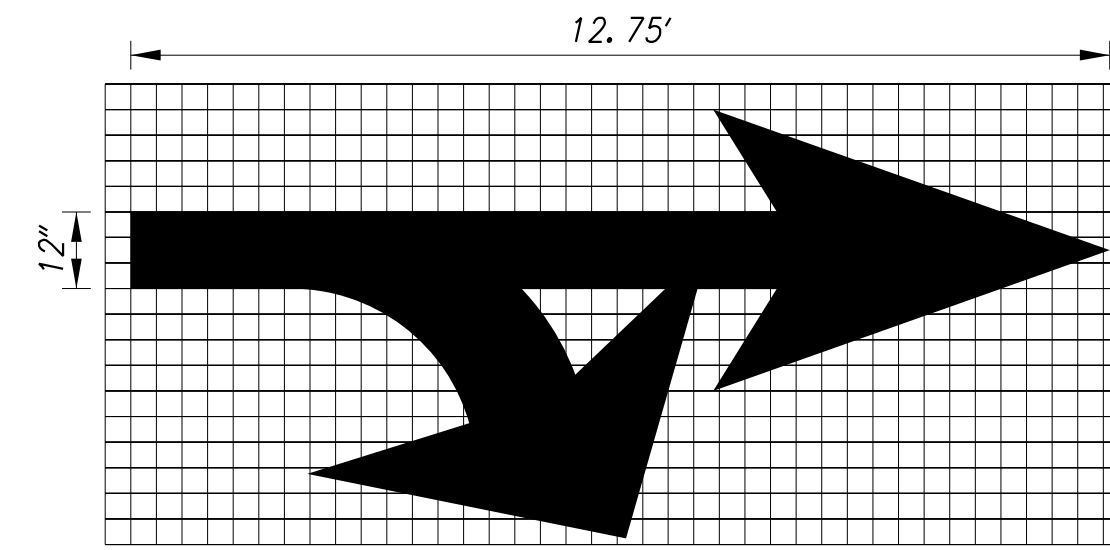
MATCH LINE SEE THIS SHEET



CONTRACTOR TO INSTALL "11th St" PANEL AS SHEET ALUMINUM OVERLAY TO EXISTING "Business District" LEGEND
WHITE LEGEND ON GREEN BACKGROUND



CONTRACTOR TO INSTALL "Delaware Ave" / "10th St" PANEL AS SHEET ALUMINUM OVERLAY TO EXISTING "Washington St" / "Tattnall St" LEGEND



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	T201906105	BRIDGE NO.	X
COUNTY	NEW CASTLE	DESIGNED BY:	SH
		CHECKED BY:	JVB

SIGNING & STRIPING PLAN

SS-01
SECTION
RKK
SHEET NO.
28

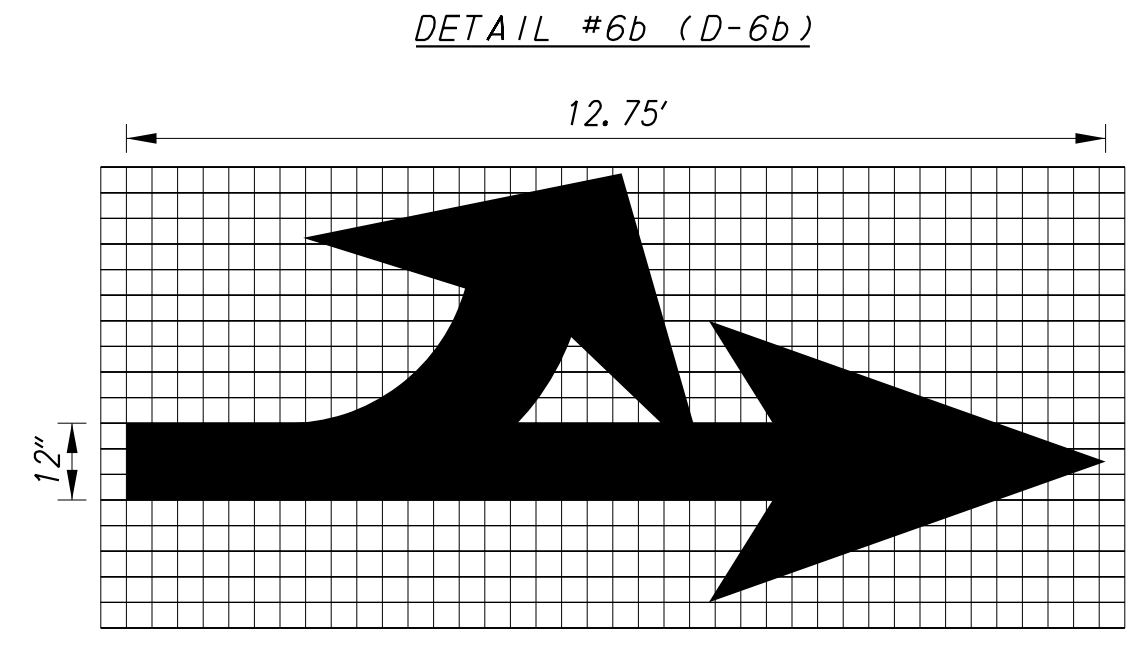
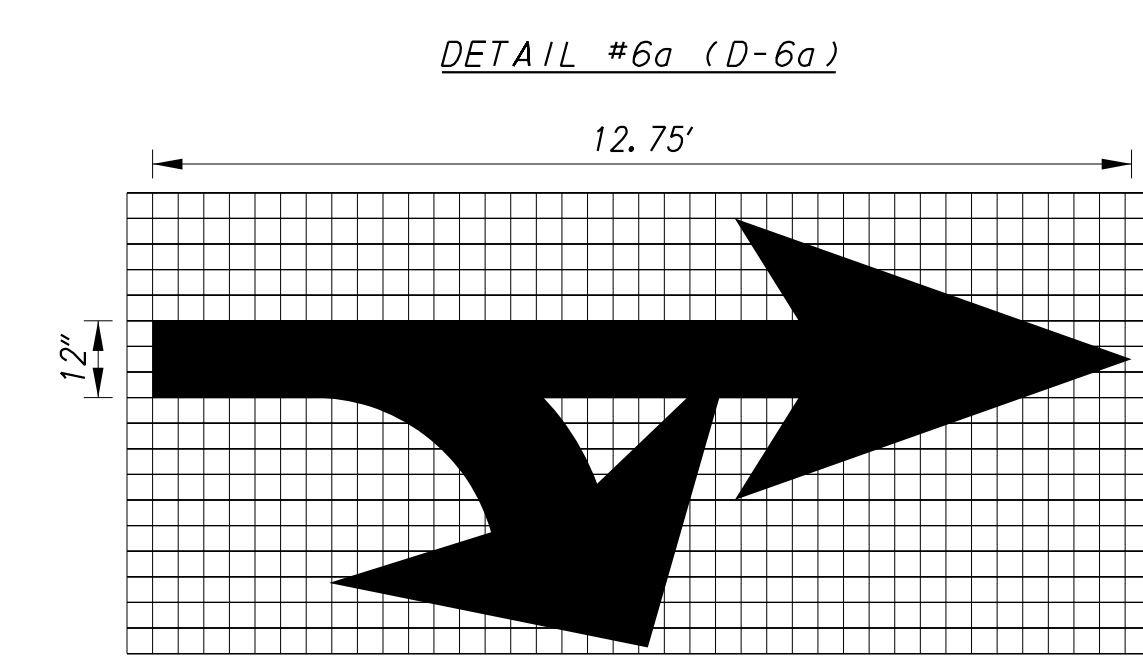
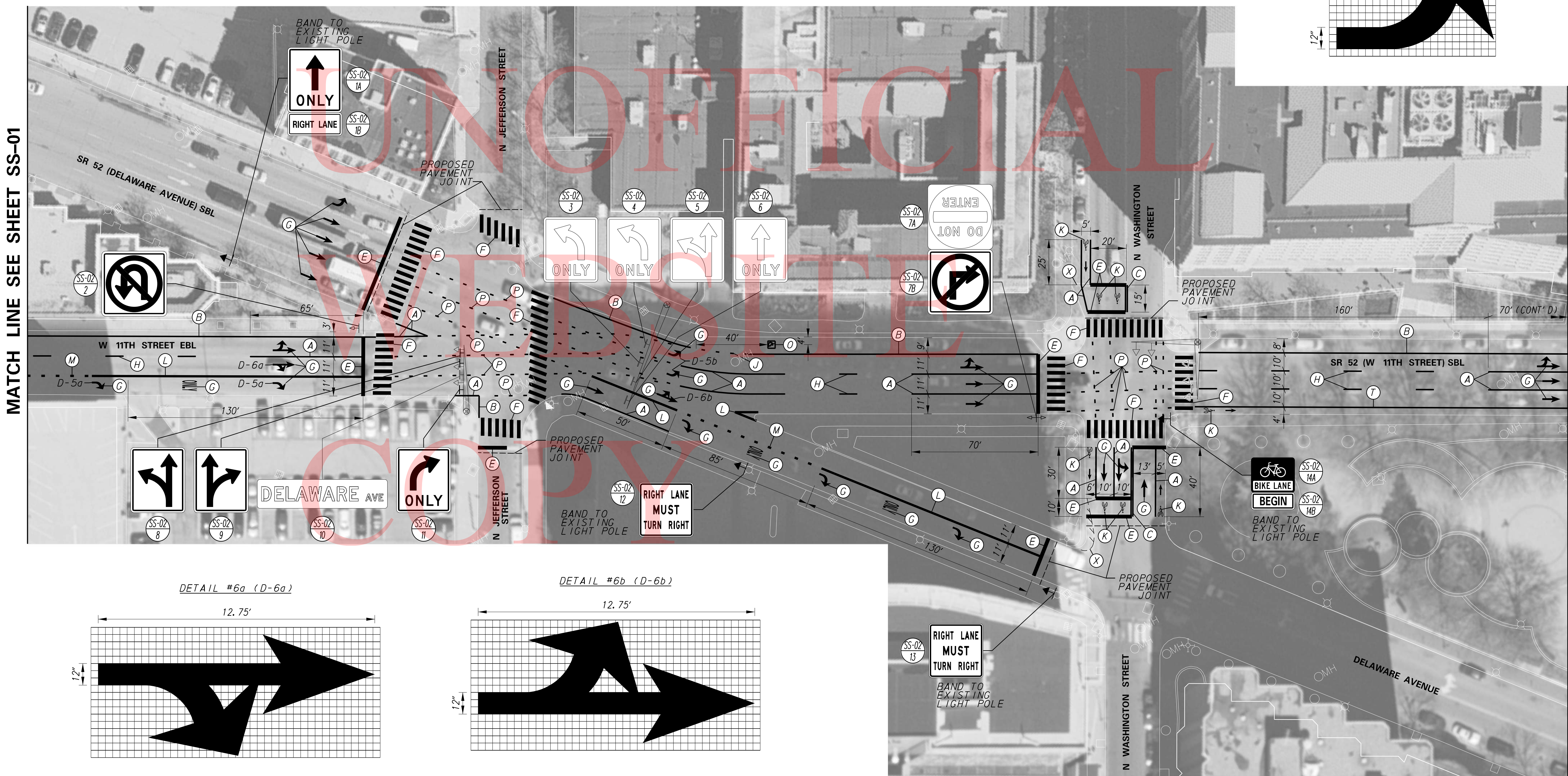
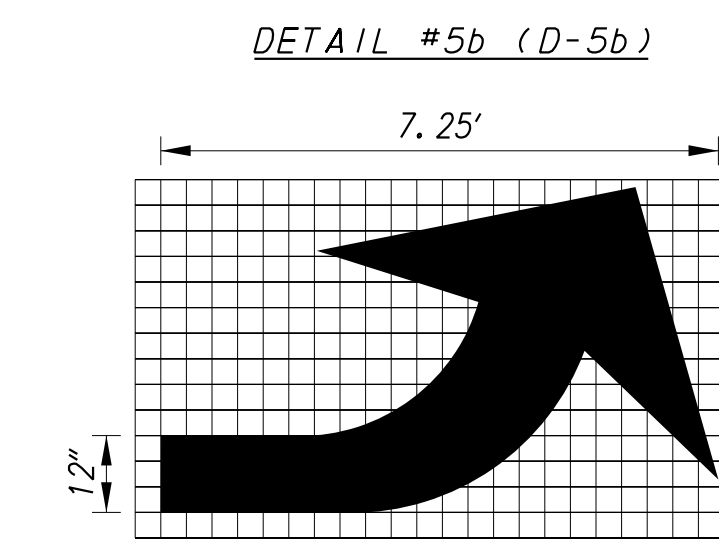
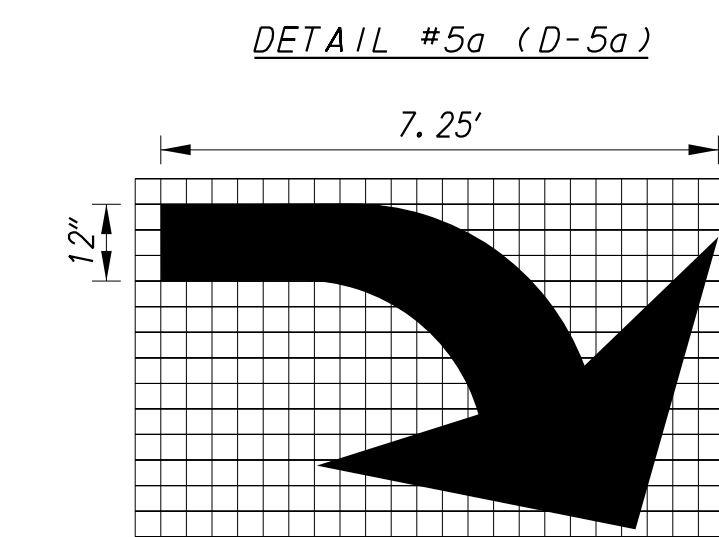
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PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAINT (ITEM 817013)	630 LF
(B)	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 817013)	650 LF
(C)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAINT (ITEM 817013)	110 LF
(D)	5" DOTTED WHITE - 2' LINE & 6' GAP EPOXY RESIN PAINT (ITEM 817013)	---
(E)	16" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817002)	351 SF
(F)	24" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817002)	1,760 SF
(G)	WHITE SYMBOL/LEGEND ALKYD-THERMOPLASTIC PAVEMENT (ITEM 817002)	480 SF
(H)	5" DOTTED WHITE - 10' LINE & 30' GAP EPOXY RESIN PAINT (ITEM 817013)	130 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	5" DOTTED YELLOW - 2' LINE & 6' GAP ALKYD-THERMOPLASTIC (ITEM 817005)	8 LF
(K)	PREFORMED BIKE SYMBOL RETROREFLECTIVE THERMOPLASTIC (ITEM 817015)	8 EA
(L)	10" SOLID WHITE EPOXY RESIN PAINT (ITEM 817014)	360 LF
(M)	10" DOTTED WHITE - 2' LINE & 6' GAP EPOXY RESIN PAINT (ITEM 817014)	40 LF
(N)	PREFORMED SYMBOL/LEGEND RETROREFLECTIVE PATTERNED (ITEM 817012)	---
(O)	PREFORMED HANDICAP SYMBOL RETROREFLECTIVE THERMOPLASTIC (ITEM 817017)	1 EA
(P)	5" DOTTED WHITE - 2' LINE & 6' GAP ALKYD-THERMOPLASTIC (ITEM 817005)	320 LF
(R)	16" SOLID WHITE, RETROREFLECTIVE PREFORMED PATTERNED MARKINGS (ITEM 817012)	---

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(T)	5" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817005)	210 LF
(U)	12" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817006)	---
(X)	REMOVAL OF PAVEMENT STRIPING (ITEM 817031)	77 SF

SIGNING & STRIPING NOTE:
THE CONTRACTOR SHALL REFER TO APPLICABLE NOTES UNDER THE MISCELLANEOUS SECTION ON SHEET NO. 5 (NOTES).

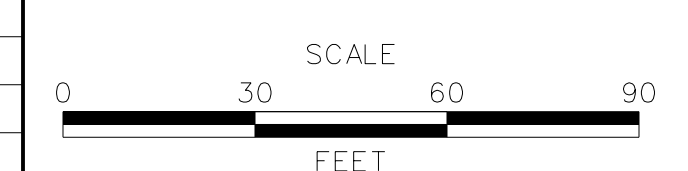


MATCH LINE SEE SHEET SS-01

MATCH LINE SEE SHEET SS-03

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ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
NORTH V, CITY OF WILMINGTON
11TH STREET, 2019 PROJECT**

CONTRACT	T201906105	BRIDGE NO.	X
COUNTY	NEW CASTLE	DESIGNED BY:	SH
		CHECKED BY:	JVB

**SIGNING & STRIPING
PLAN**

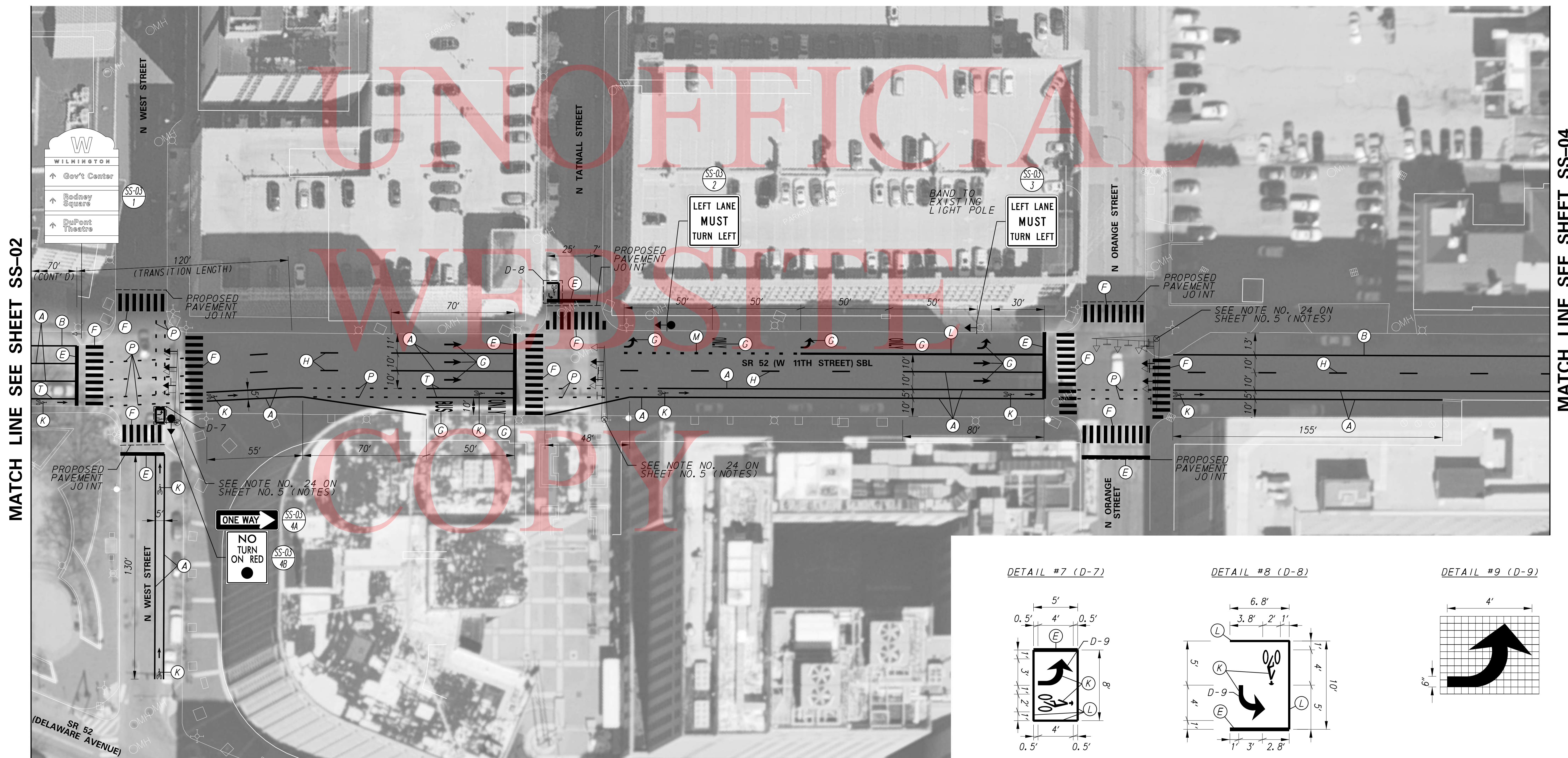
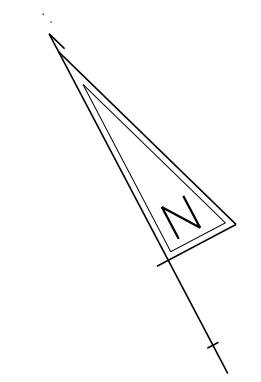
SS-02
SECTION
RKK
SHEET NO.
29

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAINT (ITEM 817013)	1,610 LF
(B)	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 817013)	240 LF
(C)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAINT (ITEM 817013)	---
(D)	5" DOTTED WHITE - 2' LINE & 6' GAP EPOXY RESIN PAINT (ITEM 817013)	---
(E)	16" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817002)	290 SF
(F)	24" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817002)	1,880 SF
(G)	WHITE SYMBOL/LEGEND ALKYD-THERMOPLASTIC (ITEM 817002)	190 SF
(H)	5" DOTTED WHITE - 10' LINE & 30' GAP EPOXY RESIN PAINT (ITEM 817013)	140 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	5" DOTTED YELLOW - 2' LINE & 6' GAP ALKYD-THERMOPLASTIC (ITEM 817005)	---
(K)	PREFORMED BIKE SYMBOL RETROREFLECTIVE THERMOPLASTIC (ITEM 817015)	10 EA
(L)	10" SOLID WHITE EPOXY RESIN PAINT (ITEM 817014)	190 LF
(M)	10" DOTTED WHITE - 2' LINE & 6' GAP EPOXY RESIN PAINT (ITEM 817014)	30 LF
(N)	PREFORMED SYMBOL/LEGEND RETROREFLECTIVE PATTERNED (ITEM 817012)	---
(O)	PREFORMED HANDICAP SYMBOL RETROREFLECTIVE THERMOPLASTIC (ITEM 817017)	---
(P)	5" DOTTED WHITE - 2' LINE & 6' GAP ALKYD-THERMOPLASTIC (ITEM 817005)	160 LF
(R)	16" SOLID WHITE, RETROREFLECTIVE PREFORMED PATTERNED MARKINGS (ITEM 817012)	---

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(T)	5" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817005)	100 LF
(U)	12" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817006)	---
(X)	REMOVAL OF PAVEMENT STRIPING (ITEM 817031)	---

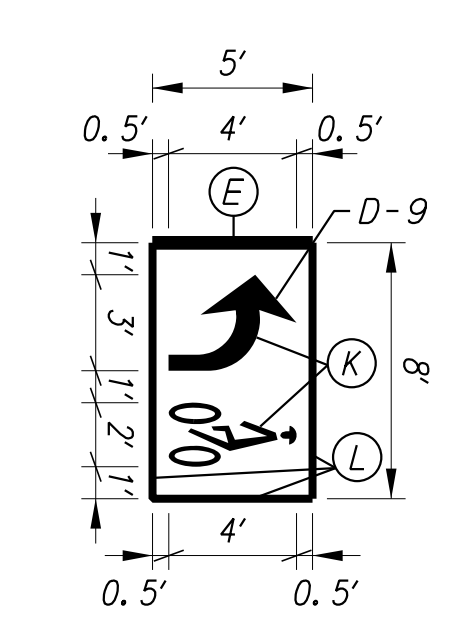
SIGNING & STRIPING NOTE:
 THE CONTRACTOR SHALL REFER TO APPLICABLE NOTES UNDER THE MISCELLANEOUS SECTION ON SHEET NO. 5 (NOTES).



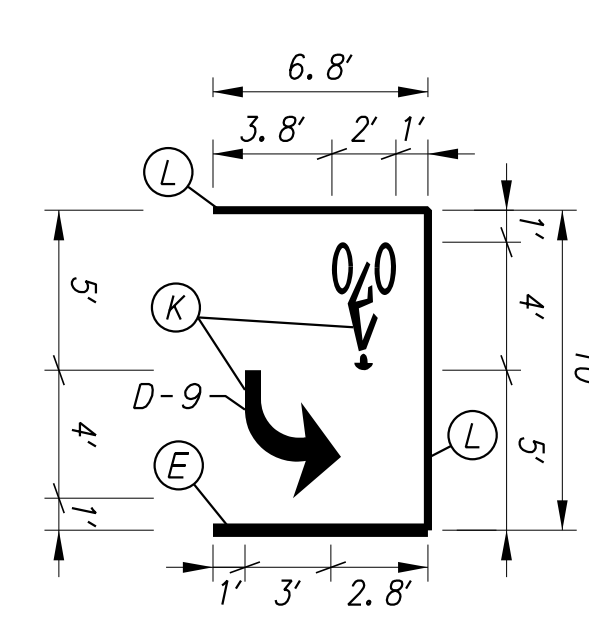
MATCH LINE SEE SHEET SS-02

MATCH LINE SEE SHEET SS-04

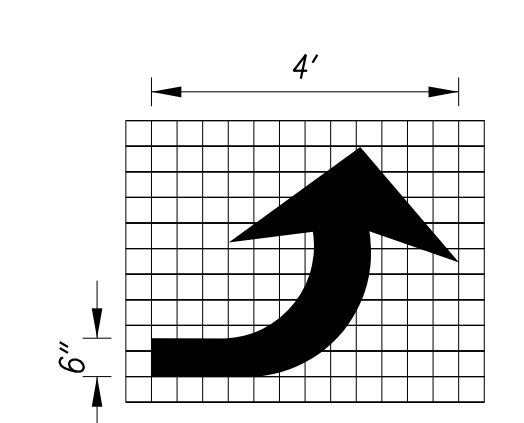
DETAIL #7 (D-7)



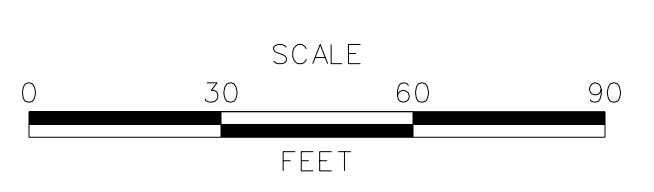
DETAIL #8 (D-8)



DETAIL #9 (D-9)



ADDENDA / REVISIONS



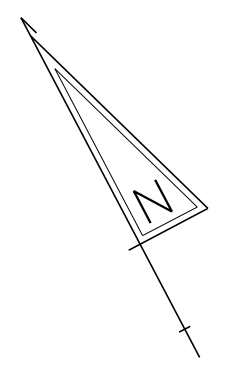
**PAVEMENT AND REHABILITATION
 NORTH V, CITY OF WILMINGTON
 11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY: SH	
COUNTY	CHECKED BY: JVB	
NEW CASTLE		

**SIGNING & STRIPING
 PLAN**

SS-03
SECTION
RKK
SHEET NO.
30

1/21/2019 9:57:02 PM \\BALSRV01\Y2014\2014\14144_DELDOT1707\TASK 7C - ADA DESIGN\02_11TH_ST\CADD\CONTRACT\PLANS\SS03_11TH.DGN

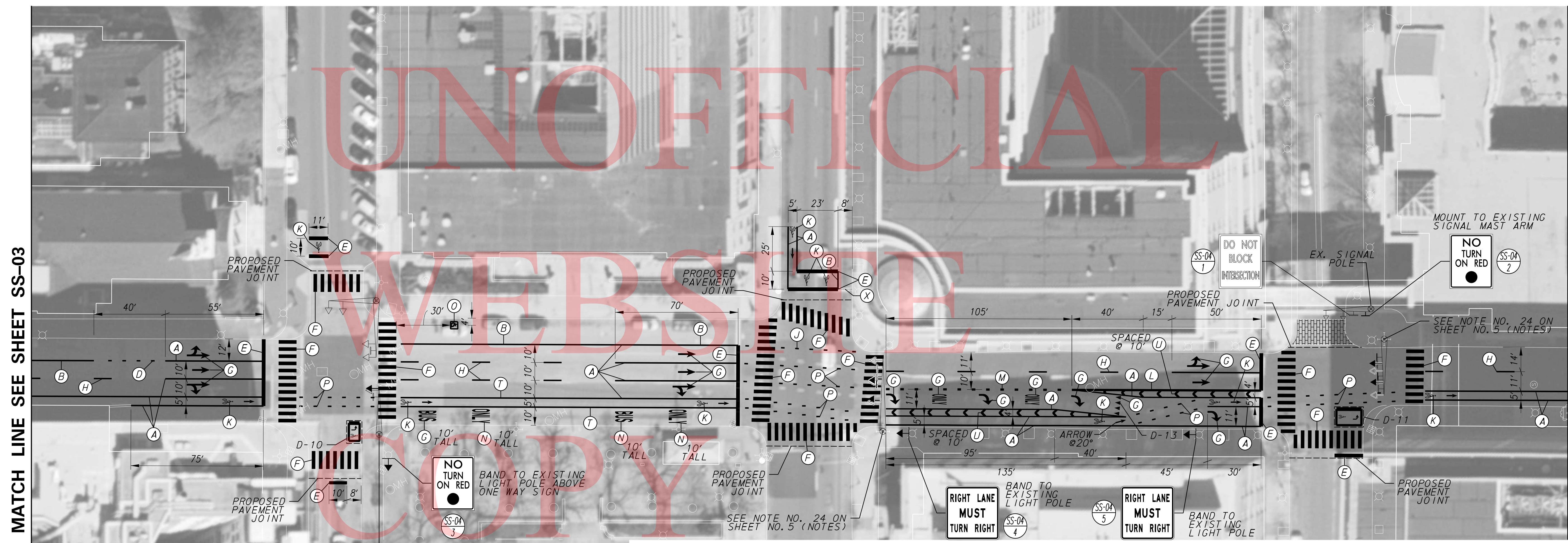


PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAINT (ITEM 817013)	1,340 LF
(B)	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 817013)	225 LF
(C)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAINT (ITEM 817013)	---
(D)	5" DOTTED WHITE - 2' LINE & 6' GAP EPOXY RESIN PAINT (ITEM 817013)	8 LF
(E)	16" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817002)	320 SF
(F)	24" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817002)	2,430 SF
(G)	WHITE SYMBOL/LEGEND ALKYD-THERMOPLASTIC PAVEMENT (ITEM 817002)	287 SF
(H)	5" DOTTED WHITE - 10' LINE & 30' GAP EPOXY RESIN PAINT (ITEM 817013)	140 LF

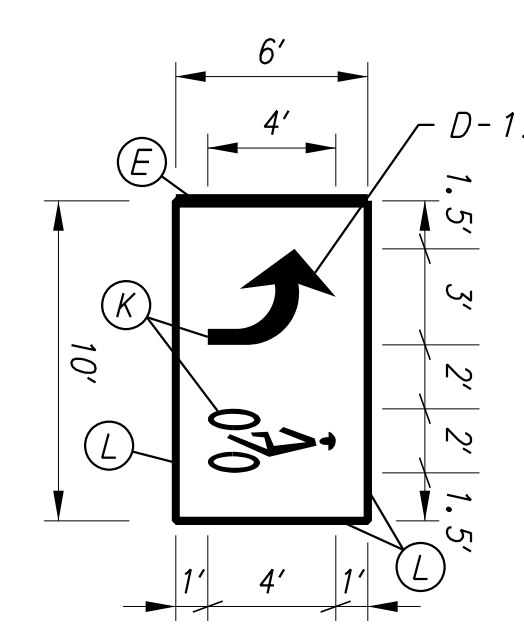
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	5" DOTTED YELLOW - 2' LINE & 6' GAP ALKYD-THERMOPLASTIC (ITEM 817005)	20 LF
(K)	PREFORMED BIKE SYMBOL RETROREFLECTIVE THERMOPLASTIC (ITEM 817015)	12 EA
(L)	10" SOLID WHITE EPOXY RESIN PAINT (ITEM 817014)	163 LF
(M)	10" DOTTED WHITE - 2' LINE & 6' GAP EPOXY RESIN PAINT (ITEM 817014)	30 LF
(N)	PREFORMED SYMBOL/LEGEND RETROREFLECTIVE PATTERNED (ITEM 817012)	60 LF
(O)	PREFORMED HANDICAP SYMBOL RETROREFLECTIVE THERMOPLASTIC (ITEM 817017)	1 EA
(P)	5" DOTTED WHITE - 2' LINE & 6' GAP ALKYD-THERMOPLASTIC (ITEM 817005)	140 LF
(R)	16" SOLID WHITE, RETROREFLECTIVE PREFORMED PATTERNED MARKINGS (ITEM 817012)	---

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(T)	5" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817005)	380 SF
(U)	12" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817006)	130 LF
(X)	REMOVAL OF PAVEMENT STRIPING (ITEM 817031)	48 SF

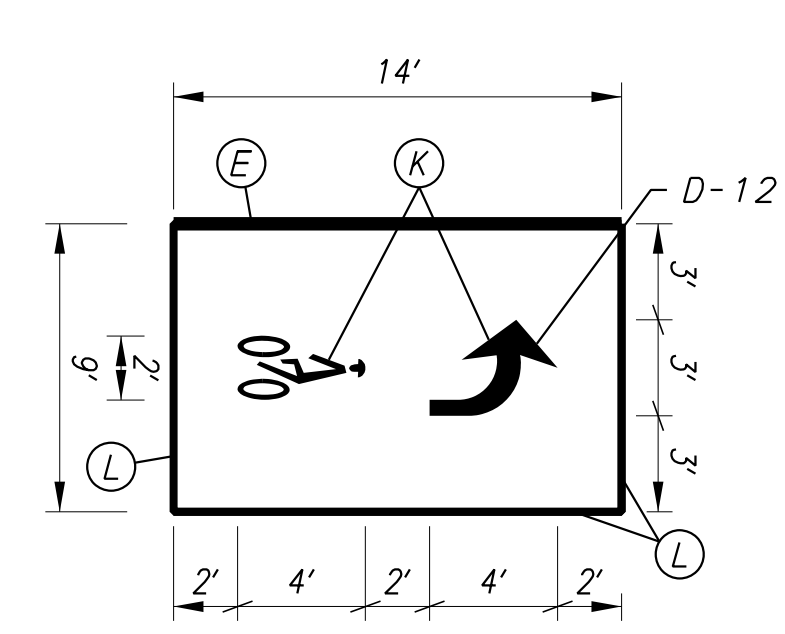
SIGNING & STRIPING NOTE:
 THE CONTRACTOR SHALL REFER TO APPLICABLE NOTES UNDER THE MISCELLANEOUS SECTION ON SHEET NO. 5 (NOTES).



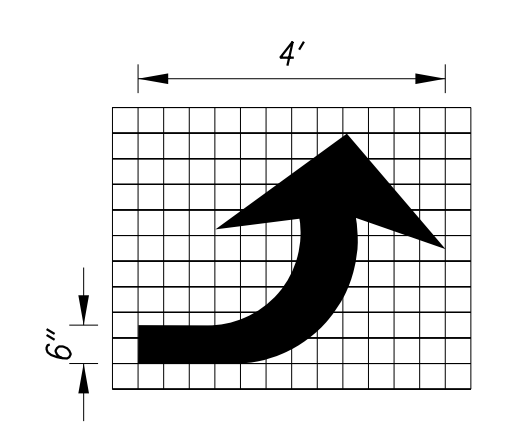
DETAIL #10 (D-10)



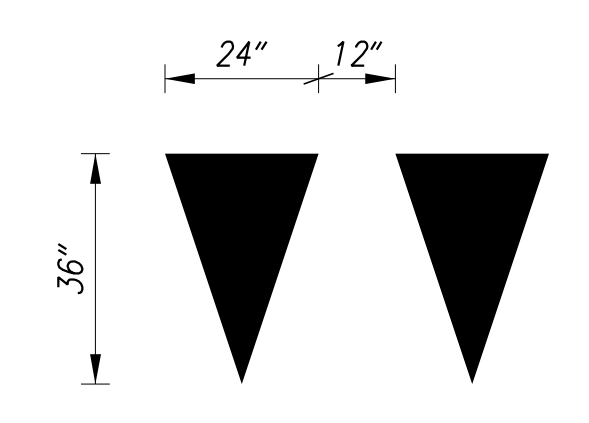
DETAIL #11 (D-11)



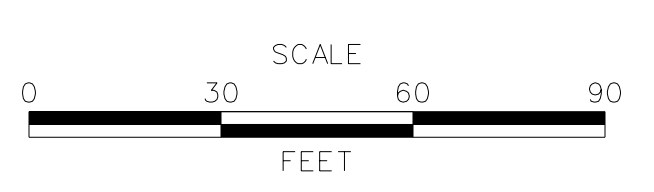
DETAIL #12 (D-12)



DETAIL #13 (D-13)



ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
 NORTH V, CITY OF WILMINGTON
 11TH STREET, 2019 PROJECT**

CONTRACT	T201906105	BRIDGE NO.	X
COUNTY	NEW CASTLE	DESIGNED BY:	SH
		CHECKED BY:	JVB

**SIGNING & STRIPING
 PLAN**

SS-04
SECTION
RKK
SHEET NO.
31

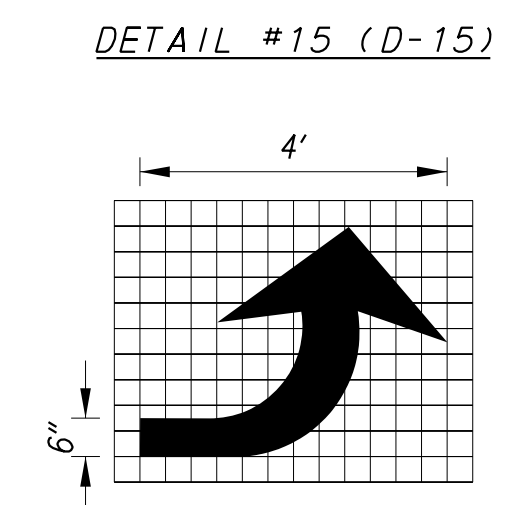
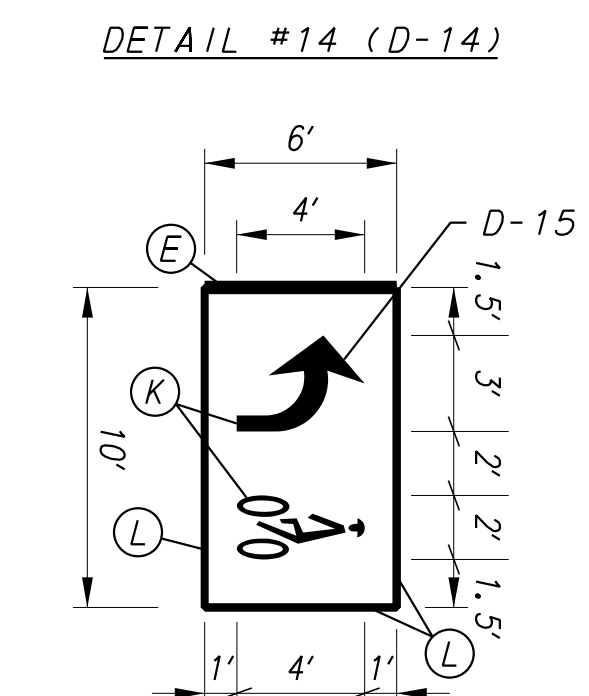
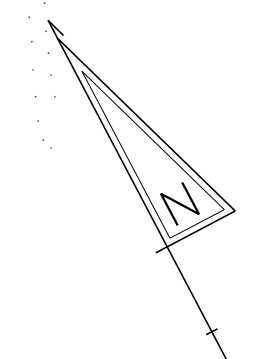
1/21/2019 10:48:44 PM
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PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAINT (ITEM 817013)	410 LF
(B)	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 817013)	---
(C)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAINT (ITEM 817013)	---
(D)	5" DOTTED WHITE - 2' LINE & 6' GAP EPOXY RESIN PAINT (ITEM 817013)	---
(E)	16" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817002)	170 SF
(F)	24" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817002)	1,340 SF
(G)	WHITE SYMBOL/LEGEND ALKYD-THERMOPLASTIC PAVEMENT (ITEM 817002)	76 SF
(H)	5" DOTTED WHITE - 10' LINE & 30' GAP EPOXY RESIN PAINT (ITEM 817013)	130 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	5" DOTTED YELLOW - 2' LINE & 6' GAP ALKYD-THERMOPLASTIC (ITEM 817005)	---
(K)	PREFORMED BIKE SYMBOL RETROREFLECTIVE THERMOPLASTIC (ITEM 817015)	9 EA
(L)	10" SOLID WHITE EPOXY RESIN PAINT (ITEM 817014)	30 LF
(M)	10" DOTTED WHITE - 2' LINE & 6' GAP EPOXY RESIN PAINT (ITEM 817014)	---
(N)	PREFORMED SYMBOL/LEGEND RETROREFLECTIVE PATTERNED (ITEM 817012)	---
(O)	PREFORMED HANDICAP SYMBOL RETROREFLECTIVE THERMOPLASTIC (ITEM 817017)	---
(P)	5" DOTTED WHITE - 2' LINE & 6' GAP ALKYD-THERMOPLASTIC (ITEM 817005)	10 LF
(R)	16" SOLID WHITE, RETROREFLECTIVE PREFORMED PATTERNED MARKINGS (ITEM 817012)	---

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(T)	5" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817005)	---
(U)	12" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817006)	---
(X)	REMOVAL OF PAVEMENT STRIPING (ITEM 817031)	---

SIGNING & STRIPING NOTE:
 THE CONTRACTOR SHALL REFER TO APPLICABLE NOTES UNDER THE MISCELLANEOUS SECTION ON SHEET NO. 5 (NOTES).

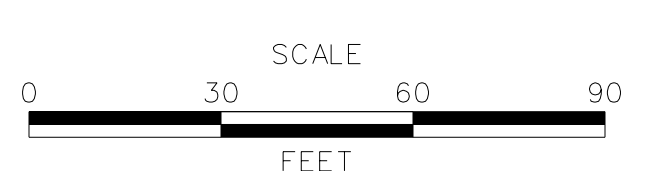


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MATCH LINE SEE SHEET SS-04

MATCH LINE SEE SHEET SS-06

ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
 NORTH V, CITY OF WILMINGTON
 11TH STREET, 2019 PROJECT**

CONTRACT T201906105	BRIDGE NO. X
COUNTY NEW CASTLE	DESIGNED BY: SH
	CHECKED BY: JVB

**SIGNING & STRIPING
 PLAN**

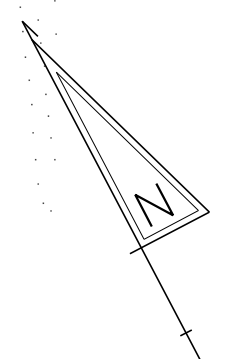
SS-05
SECTION RKK
SHEET NO. 32

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAINT (ITEM 817013)	190 LF
(B)	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 817013)	---
(C)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAINT (ITEM 817013)	---
(D)	5" DOTTED WHITE - 2' LINE & 6' GAP EPOXY RESIN PAINT (ITEM 817013)	---
(E)	16" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817002)	187 SF
(F)	24" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817002)	1,860 SF
(G)	WHITE SYMBOL/LEGEND ALKYD-THERMOPLASTIC (ITEM 817002)	208 SF
(H)	5" DOTTED WHITE - 10' LINE & 30' GAP EPOXY RESIN PAINT (ITEM 817013)	120 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	5" DOTTED YELLOW - 2' LINE & 6' GAP ALKYD-THERMOPLASTIC (ITEM 817005)	---
(K)	PREFORMED BIKE SYMBOL RETROREFLECTIVE THERMOPLASTIC (ITEM 817015)	8 EA
(L)	10" SOLID WHITE EPOXY RESIN PAINT (ITEM 817014)	24 LF
(M)	10" DOTTED WHITE - 2' LINE & 6' GAP EPOXY RESIN PAINT (ITEM 817014)	---
(N)	12" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817006)	---
(O)	PREFORMED HANDICAP SYMBOL RETROREFLECTIVE THERMOPLASTIC (ITEM 817017)	---
(P)	5" DOTTED WHITE - 2' LINE & 6' GAP ALKYD-THERMOPLASTIC (ITEM 817005)	---
(R)	16" SOLID WHITE, RETROREFLECTIVE PREFORMED PATTERNED MARKINGS (ITEM 817012)	---

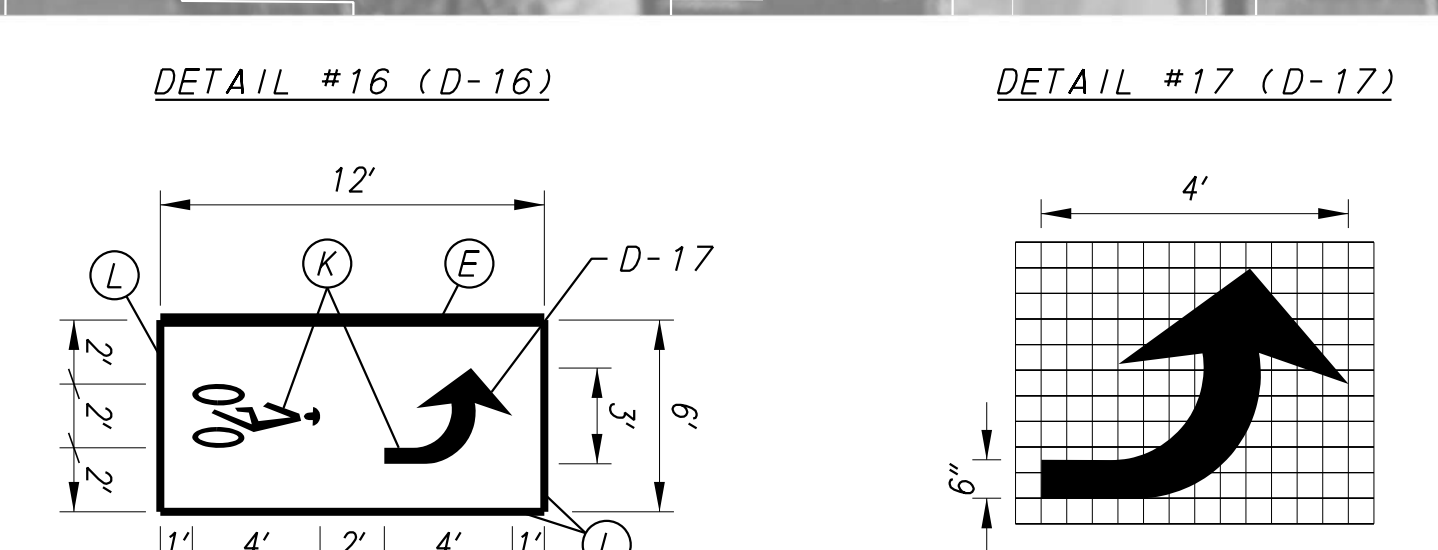
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(T)	5" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817005)	---
(U)	12" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817006)	---
(X)	REMOVAL OF PAVEMENT STRIPING (ITEM 817031)	---

SIGNING & STRIPING NOTE:
 THE CONTRACTOR SHALL REFER TO APPLICABLE NOTES UNDER THE MISCELLANEOUS SECTION ON SHEET NO. 5 (NOTES).

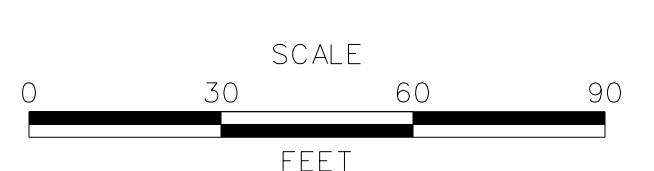


MATCH LINE SEE SHEET SS-05

MATCH LINE SEE SHEET SS-07



ADDENDA / REVISIONS



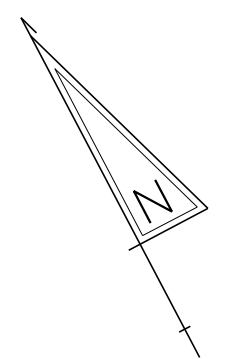
**PAVEMENT AND REHABILITATION
 NORTH V, CITY OF WILMINGTON
 11TH STREET, 2019 PROJECT**

CONTRACT T201906105	BRIDGE NO. X
COUNTY NEW CASTLE	DESIGNED BY: SH
	CHECKED BY: JVB

**SIGNING & STRIPING
 PLAN**

SS-06
SECTION RKK
SHEET NO. 33

1/21/2019 10:02:46 PM \\BALSRV01\2014\2014\14144_DELDDOT1707\TASK 7C - ADA DESIGN\02_11TH_ST\CADD\CONTRACT\PLANS\SS06_11TH.DGN



PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAINT (ITEM 817013)	190 LF
(B)	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 817013)	---
(C)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAINT (ITEM 817013)	---
(D)	5" DOTTED WHITE - 2' LINE & 6' GAP EPOXY RESIN PAINT (ITEM 817013)	---
(E)	16" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817002)	92 SF
(F)	24" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817002)	560 SF
(G)	WHITE SYMBOL/LEGEND ALKYD-THERMOPLASTIC (ITEM 817002)	69 SF
(H)	5" DOTTED WHITE - 10' LINE & 30' GAP EPOXY RESIN PAINT (ITEM 817013)	10 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	5" DOTTED YELLOW - 2' LINE & 6' GAP ALKYD-THERMOPLASTIC (ITEM 817005)	---
(K)	PREFORMED BIKE SYMBOL RETROREFLECTIVE THERMOPLASTIC (ITEM 817015)	3 EA
(L)	10" SOLID WHITE EPOXY RESIN PAINT (ITEM 817014)	---
(M)	10" DOTTED WHITE - 2' LINE & 6' GAP EPOXY RESIN PAINT (ITEM 817014)	---
(N)	12" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817006)	---
(O)	PREFORMED HANDICAP SYMBOL RETROREFLECTIVE THERMOPLASTIC (ITEM 817017)	---
(P)	5" DOTTED WHITE - 2' LINE & 6' GAP ALKYD-THERMOPLASTIC (ITEM 817005)	---
(R)	16" SOLID WHITE, RETROREFLECTIVE PREFORMED PATTERNED MARKINGS (ITEM 817012)	---

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(T)	5" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817005)	---
(U)	12" SOLID WHITE ALKYD-THERMOPLASTIC (ITEM 817006)	---
(X)	REMOVAL OF PAVEMENT STRIPING (ITEM 817031)	---

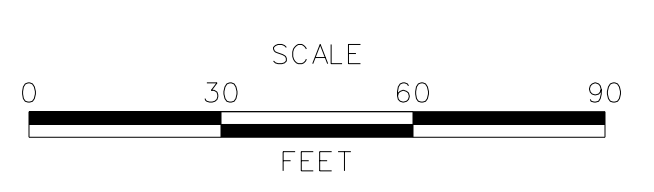
SIGNING & STRIPING NOTE:
 THE CONTRACTOR SHALL REFER TO APPLICABLE NOTES UNDER THE MISCELLANEOUS SECTION ON SHEET NO. 5 (NOTES).



MATCH LINE SEE SHEET SS-06

1/21/2019 10:05:11 PM \\BALSRV01\2014\2014\14144...DELDT01707\TASK 7C - ADA DESIGN\02_11TH_ST\CADD\CONTRACT\PLANS\SS07_11TH.DGN

ADDENDA / REVISIONS



**PAVEMENT AND REHABILITATION
 NORTH V, CITY OF WILMINGTON
 11TH STREET, 2019 PROJECT**

CONTRACT	BRIDGE NO.	X
T201906105	DESIGNED BY:	SH
COUNTY	CHECKED BY:	JVB
NEW CASTLE		

**SIGNING & STRIPING
 PLAN**

SS-07
SECTION
RKK
SHEET NO.
34

10/18/2018 5:04:07 PM \\BALSRV01\1\2014\2014-11\14144_DEL011707\TASK 7C - ADA DESIGN\02_11TH_ST\CADD\CONTRACT\PLANS\SS08_11TH.DGN

PERMANENT SIGN SCHEDULE

Table with columns: SHEET NO., PLAN IDENTIFIER, SIGN DESIGNATION, QTY., DESCRIPTION, SIGN WIDTH (IN), SIGN HEIGHT (IN), SIGN AREA (SF), ITEM 819018 SINGLE POST (EACH), ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF), POST INSTALLATION TYPE, Code X11 12' Post (W/ Basepost) (EACH), ITEM 819016 4" HOLE, 0-6" (EACH), ITEM 819017 4" HOLE, >6" (EACH), REMARKS

NOTE: POST INSTALLATION TYPE CONCRETE USED FOR LOCATIONS WHERE SIGN IS INSTALLED IN BRICK.

ADDENDA / REVISIONS

NOT TO SCALE

PAVEMENT AND REHABILITATION NORTH V, CITY OF WILMINGTON 11TH STREET, 2019 PROJECT

Table with contract information: CONTRACT T201906105, COUNTY NEW CASTLE, BRIDGE NO. X, DESIGNED BY: SH, CHECKED BY: JVB

PERMANENT SIGN SCHEDULE

CONDUIT RUN SCHEDULE					
CO#	* OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
1#	1	2.5 IN	2 FT	-	EX. (1) 2/*8 U.F. W/ GROUND, (1) 16/*14, (2) 9/*14, (2) 4/*18, [NEW (1) FIBER]
2	1	4.0 IN	371 FT	T	[NEW (1) FIBER]
3	1	4.0 IN	46 FT	B	[NEW (1) FIBER]
4	1	4.0 IN	136 FT	B	[NEW (1) FIBER]
5	1	4.0 IN	298 FT	T	[NEW (1) FIBER]
6	1	4.0 IN	90 FT	B	[NEW (1) FIBER]
7	1	4.0 IN	56 FT	B	[NEW (1) FIBER]
8	1	4.0 IN	217 FT	T	[NEW (1) FIBER]
120	3	4.0 IN	2 FT	T	[NEW (1) FIBER] [NEW (2) 9/*14, (6) 5/*14, (2) 4/*18, (1) CAT 5e CABLE, (3) *6 GROUND]
211	4	4.0 IN	4 FT	T	[NEW (1) FIBER] [NEW (2) 9/*14, (6) 5/*14, (2) 4/*18, (1) CAT 5e CABLE, (4) *6 GROUND]
313	3	4.0 IN	9 FT	T	[NEW (1) CAT 5e CABLE, (4) 5/*14, (2) 4/*18, (2) 9/*14, (1) 4/*14, (1) FIBER, (3) *6 GROUND]

* DENOTES EXISTING CONDUIT B = BORE, T = TRENCH, O = OPEN CUT

- NOTES:**
- ALL SIGNAL EQUIPMENT REMOVED FROM THE PROJECT IS TO BE RETURNED TO THE CITY OF WILMINGTON.
 - ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
 - ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.
 - ALL CONDUITS SHALL BE SCHEDULE 80 PVC WHEN INSTALLED BY TRENCHING/OPEN CUT AND HDPE SDR-13.5 WHEN INSTALLED BY BORING, UNLESS OTHERWISE NOTED.



SIGNAL PHASING	
SIGNAL HEAD DIAGRAM	

LEGEND			
(AB)	ABANDON	(OH)	EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	(OH)	PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(CA)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	(PB)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)	(PB)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)	(PL)	EXISTING POLE IDENTIFIER (* OF POLE)
(JW)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(PL)	PROPOSED POLE IDENTIFIER (* OF POLE)
(JW)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(RM)	REMOVE BY CONTRACTOR
(MA)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY OTHERS
(MA)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1	□	□
LOOP DETECTOR, TYPE 2	□	□
LUMINAIRE	⊙	⊙
MAST ARM	▶	▶
MICROWAVE DETECTION	◀	▶
OPTICOM RECEIVER	○	○
OVERHEAD SIGNING	—	—
PEDESTRIAN POLE/BASE	⊙	⊙
PEDESTRIAN PUSHBUTTON	→	→
PEDESTRIAN SIGNAL HEAD	⊙	⊙
RIGHT-OF-WAY	---	R/W
SERVICE PEDESTAL	□	□
SIGNAL CABINET	□	□
SIGNAL HEAD	→	→
SIGNAL POLE/BASE	⊙	⊙
CCTV CAMERA	□	□
SPAN WIRE	—XX—	—XX—
UTILITY POLE	⊙	⊙
VIDEO DETECTION	⊙	⊙

PREPARED BY

WRA Whitman, Reardon and Associates, LLP
Engineers - Architects - Environmental Planners Est. 1915

Matthew J. Bickett 1/17/19

THIS SEAL APPLIES TO ALL SHEETS BEARING THE "WRA" SECTION DESIGNATION. DATE

MATTHEW J. BICKETT
Professional Engineer
No. 18224

SEAL

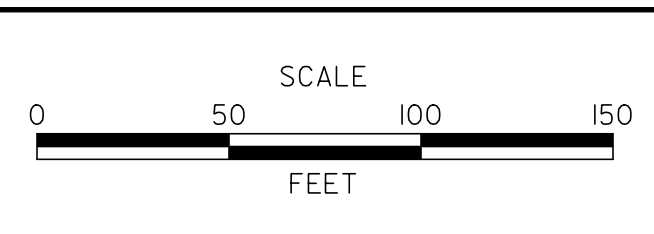
APPROVED FOR INSTALLATION

Phil L... 1/17/19

CHIEF TRAFFIC ENGINEER DATE

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ADDENDA / REVISIONS



PAVEMENT & REHABILITATION, NORTH V (2015 HEP, SITE A)

CONTRACT	PERMIT NO.	WILM./N305
T201906105	DESIGNED BY: S.C.H. (WRA)	SECTION WRA
COUNTY	CHECKED BY: M.J.B. (WRA)	
NEW CASTLE	SHEET NO. 1	

COMM INTERCONNECT PLAN NORTH ADAMS STREET

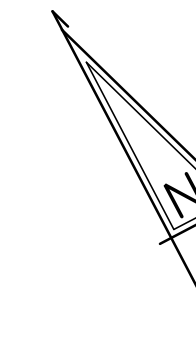
CONDUIT RUN SCHEDULE					
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
1*	1	2.5 IN	2 FT	-	EX. (1) 2/*8 U.F. W/ GROUND, (1) 16/*14, (2) 9/*14, (2) 4/*18, [NEW (1) FIBER]
2	1	4.0 IN	371 FT	T	[NEW (1) FIBER]
3	1	4.0 IN	46 FT	B	[NEW (1) FIBER]
4	1	4.0 IN	136 FT	B	[NEW (1) FIBER]
5	1	4.0 IN	298 FT	T	[NEW (1) FIBER]
6	1	4.0 IN	90 FT	B	[NEW (1) FIBER]
7	1	4.0 IN	56 FT	B	[NEW (1) FIBER]
8	1	4.0 IN	217 FT	T	[NEW (1) FIBER]
120	3	4.0 IN	2 FT	T	[NEW (1) FIBER] [NEW (2) 9/*14, (6) 5/*14, (2) 4/*18, (1) CAT 5e CABLE, (3) *6 GROUND]
211	4	4.0 IN	4 FT	T	[NEW (1) FIBER] [NEW (2) 9/*14, (6) 5/*14, (2) 4/*18, (1) CAT 5e CABLE, (4) *6 GROUND]
313	3	4.0 IN	9 FT	T	[NEW (1) CAT 5e CABLE, (4) 5/*14, (2) 4/*18, (2) 9/*14, (1) 4/*14, (1) FIBER, (3) *6 GROUND]

* DENOTES EXISTING CONDUIT

B = BORE, T = TRENCH, O = OPEN CUT

NOTES:

1. ALL SIGNAL EQUIPMENT REMOVED FROM THE PROJECT IS TO BE RETURNED TO THE CITY OF WILMINGTON.
2. ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
3. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.
4. ALL CONDUITS SHALL BE SCHEDULE 80 PVC WHEN INSTALLED BY TRENCHING/OPEN CUT AND HDPE SDR-13.5 WHEN INSTALLED BY BORING, UNLESS OTHERWISE NOTED.



SIGNAL PHASING

SIGNAL HEAD DIAGRAM

LEGEND

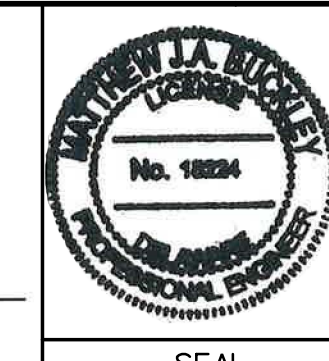
(AB)	ABANDON	(OH)	EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	(OH)	PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(CA)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	(PB)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)	(PB)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)	(PL)	EXISTING POLE IDENTIFIER (* OF POLE)
(JW)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(PL)	PROPOSED POLE IDENTIFIER (* OF POLE)
(JW)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(RM)	REMOVE BY CONTRACTOR
(MA)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY OTHERS
(MA)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1	□	□
LOOP DETECTOR, TYPE 2	□	□
LUMINAIRE	⊙	⊙
MAST ARM	▶	▶
MICROWAVE DETECTION	◀	▶
OPTICOM RECEIVER	○	○
OVERHEAD SIGNING	⊖	⊖
PEDESTRIAN POLE/BASE	⊙	⊙
PEDESTRIAN PUSHBUTTON	→	→
PEDESTRIAN SIGNAL HEAD	⊖	⊖
RIGHT-OF-WAY	---	R/W
SERVICE PEDESTAL	□	□
SIGNAL CABINET	□	□
SIGNAL HEAD	▶	▶
SIGNAL POLE/BASE	⊙	⊙
CCTV CAMERA	⊙	⊙
SPAN WIRE	—XX—	—XX—
UTILITY POLE	⊙	⊙
VIDEO DETECTION	⊙	⊙

PREPARED BY

WRA Whitman, Reardon and Associates, LLP
Engineers - Architects - Environmental Planners Est. 1915

[Signature] 1/17/19 DATE
THIS SEAL APPLIES TO ALL SHEETS BEARING THE "WRA" SECTION DESIGNATION.

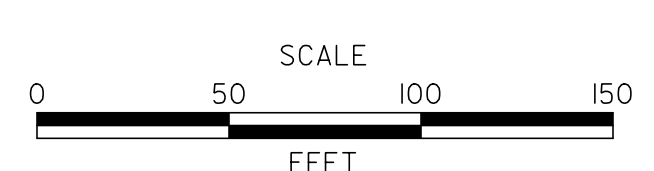


APPROVED FOR INSTALLATION

[Signature] 1/17/19 DATE
CHIEF TRAFFIC ENGINEER

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ADDENDA / REVISIONS



**PAVEMENT & REHABILITATION,
NORTH V
(2015 HEP, SITE A)**

CONTRACT	PERMIT NO.	N306/N307
T201906105	DESIGNED BY: S.C.H. (WRA)	
COUNTY	CHECKED BY: M.J.B. (WRA)	
NEW CASTLE		

SECTION	WRA
SHEET NO.	2

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
2	1	4.0 IN	371 FT	T	[NEW (1) FIBER]
3	1	4.0 IN	46 FT	B	[NEW (1) FIBER]
4	1	4.0 IN	136 FT	B	[NEW (1) FIBER]
5	1	4.0 IN	298 FT	T	[NEW (1) FIBER]
OH 101*	1	-	61 FT	-	[REMOVE EX. (1) 2/*8 U.F. W/GROUND, EX. (1) COMM. CABLE]
102*	1	2.5 IN	11 FT	-	[REMOVE EX. (1) 16/*14, EX. (1) 2/*8 U.F. W/GROUND, EX. (3) 9/*14, EX. (3) 4/*18]
103*	2	2.5 IN	2 FT	-	[REMOVE EX. (1) 16/*14, EX. (1) FIBER OPTIC, SINGLE-MODE, 12 CT., EX. (1) COMM. CABLE, EX. (3) 9/*14, EX. (7) 4/*18]
		1.5 IN			[REMOVE EX. (1) 2/*8 U.F. W/ GROUND, EX. (1) FIBER, (1) 4/*14 - CUT]
OH 104*	1	-	74 FT	-	[REMOVE EX. (1) 16/*14, EX. (2) 9/*14, EX. (1) 4/*18]
OH 105*	1	-	31 FT	-	[REMOVE EX. (1) 9/*14]
106*	1	2.0 IN	34 FT	-	[REMOVE EX. (1) 2/*8 U.F. W/GROUND]
107*	1	2.5 IN	25 FT	-	[REMOVE EX. (2) FIBER]
108*	1	2.5 IN	5 FT	-	EX. (2) FIBER
109*	1	2.5 IN	53 FT	-	[REMOVE EX. (1) 9/*14, EX. (4) 4/*18]
110*	1	2.5 IN	8 FT	-	[REMOVE EX. (1) 9/*14, EX. (3) 4/*18]
111*	1	2.5 IN	4 FT	-	[REMOVE EX. (1) 9/*14]
112*	1	2.5 IN	67 FT	-	[REMOVE EX. (1) 4/*18, EX. (1) 4/*18 - CUT]
113*	1	2.0 IN	70 FT	-	[REMOVE EX. (1) 4/*18, EX. (1) 16/*14 - CUT]
114*	1	1.5 IN	22 FT	-	[REMOVE EX. (1) 16/*14 - CUT]
115**	1	2.0 IN	54 FT	B	[NEW (1) 2/*8 U.F. W/GROUND - LINE SIDE]
116**	1	2.0 IN	56 FT	T	[NEW (1) 2/*8 U.F. W/GROUND - LINE SIDE]
117**	1	2.0 IN	17 FT	T	[NEW (1) 2/*8 U.F. W/GROUND - LOAD SIDE]
118**	1	2.0 IN	16 FT	T	[NEW (1) 2/*8 U.F. W/GROUND - LOAD SIDE]
119	1	3.0 IN	5 FT	T	[NEW (1) 2/*8 U.F. W/GROUND - LOAD SIDE]
120	3	4.0 IN	2 FT	T	[NEW (3) FIBER] [NEW (2) 9/*14, (6) 5/*14, (2) 4/*18, (1) CAT 5e CABLE, (3) *6 GROUND]
121	1	4.0 IN	22 FT	T	[NEW (2) FIBER]
122	1	3.0 IN	6 FT	T	[NEW (1) 9/*14, (1) 4/*18, (1) *6 GROUND]
123	1	4.0 IN	60 FT	B	[NEW (1) 5/*14, (1) *6 GROUND]
124	1	2.5 IN	14 FT	T/O	[NEW (1) 5/*14, (1) *6 GROUND]
125	1	2.5 IN	6 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]
126	1	4.0 IN	53 FT	B	[NEW (2) 9/*14, (4) 5/*14, (2) 4/*18, (1) CAT 5e CABLE, (1) *6 GROUND]
127	1	2.5 IN	4 FT	T	[NEW (2) 5/*14, (1) *6 GROUND]
128	1	4.0 IN	73 FT	B	[NEW (2) 9/*14, (2) 5/*14, (2) 4/*18, (1) CAT 5e CABLE, (1) *6 GROUND]
129	1	3.0 IN	12 FT	B	[NEW (2) 9/*14, (2) 4/*18, (1) CAT 5e CABLE, (1) *6 GROUND]
130	1	2.5 IN	22 FT	T/O	[NEW (2) 5/*14, (1) *6 GROUND]

* DENOTES EXISTING CONDUIT/OVERHEAD RUN
 ** PROPOSED RIGID GALVANIZED STEEL CONDUIT
 B = BORE, T = TRENCH, O = OPEN CUT

- NOTES:**
- PROPOSED FISHEYE DETECTION ZONES:
 TYPE #2 - 24'x40' - TO BE INSTALLED ON EASTBOUND WEST 9TH STREET.
 TYPE #2 - 18'x40' - TO BE INSTALLED ON NORTHBOUND I-95 EXIT RAMP AND THE NORTHBOUND NORTH ADAMS STREET THROUGH MOVEMENT.
 SYSTEM - 6'x6' - TO BE INSTALLED ON NORTH ADAMS STREET AND WEST 9TH STREET RECEIVING LANES.
 - ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO THE CITY OF WILMINGTON.
 - ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
 - ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.
 - ALL CONDUITS SHALL BE SCHEDULE 80 PVC WHEN INSTALLED BY TRENCHING/OPEN CUT AND HDPE SDR-13.5 WHEN INSTALLED BY BORING, UNLESS OTHERWISE NOTED.
 - JUNCTION WELLS, CABINET BASES, AND POLE BASES ARE TO BE REMOVED IN ACCORDANCE WITH SECTION 211 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
 - ALL PROPOSED SIGNAL POLES SHALL BE DELDOT MAST ARMS.

PROPOSED OVERHEAD SIGNING

*FREE-SWINGING MOUNTS

S-2
R3-2
(36" X 36")

S-3
R3-18
(36" X 36")

S-5
R3-5R
(30" X 36")

S-6
R10-11
(36" X 48")

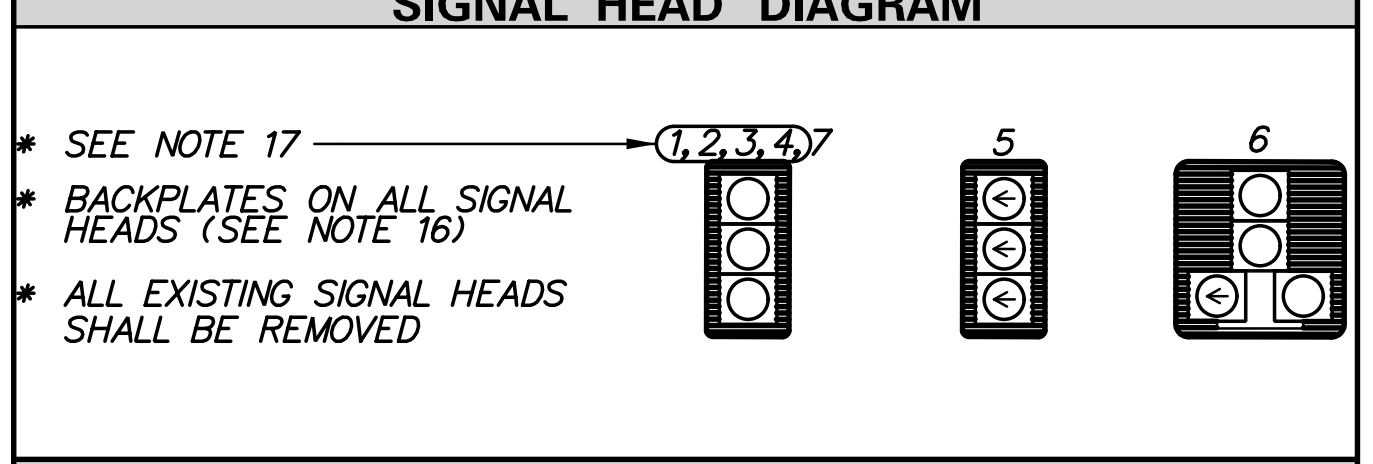
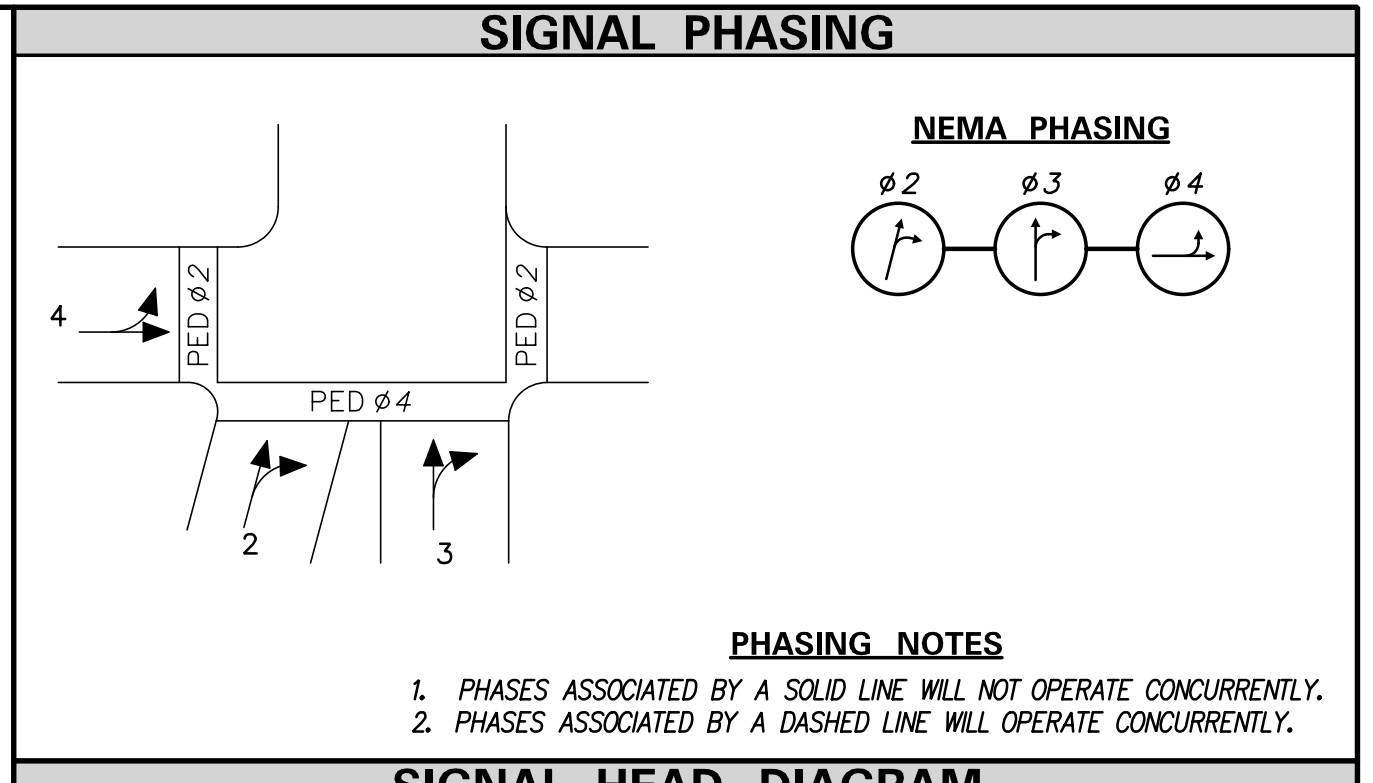
S-7*
D3-1 (60" X 18")
8" & 6" LEGEND
D-SERIES

S-8
R3-1
(36" X 36")

w 9th St

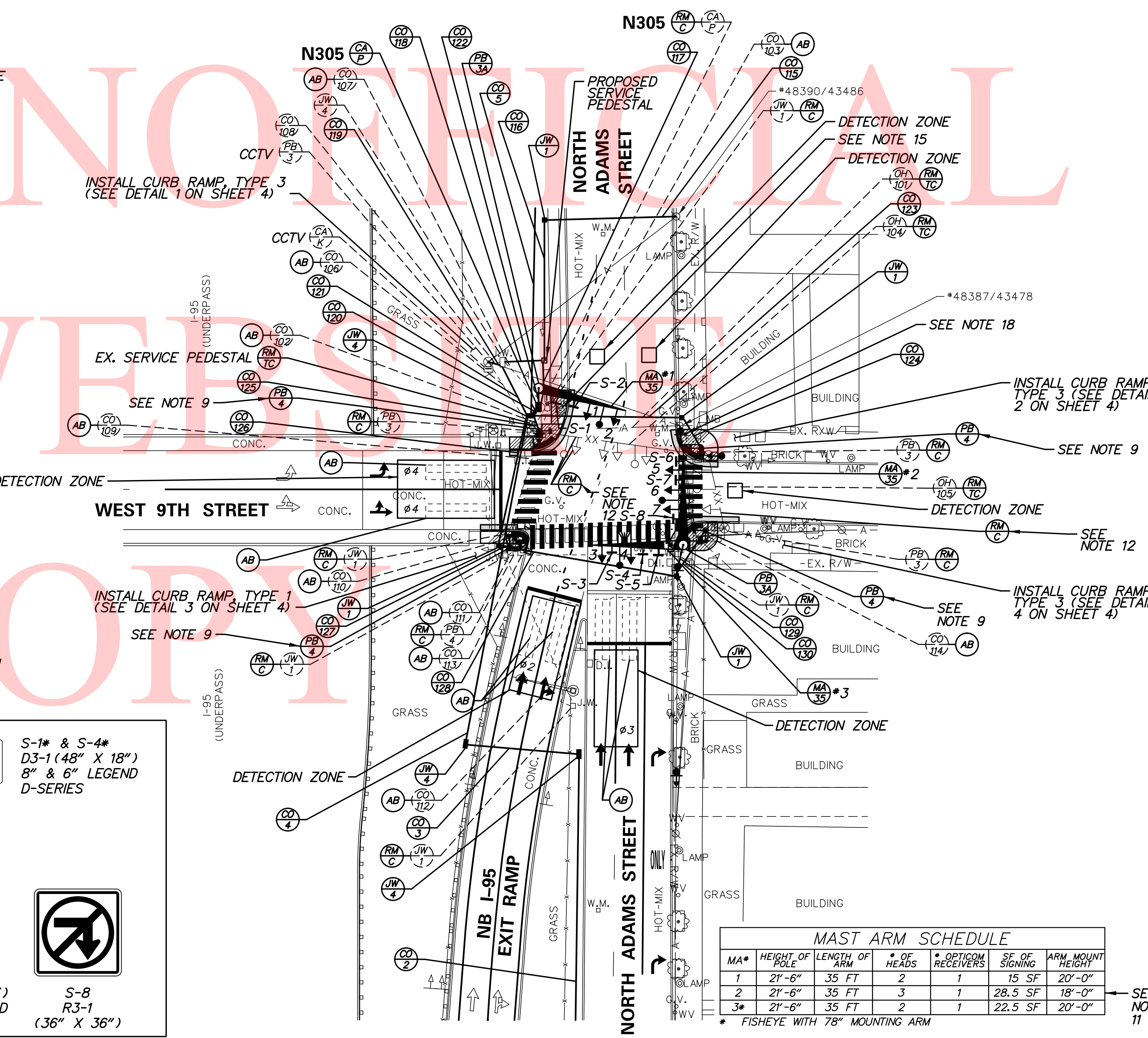
N Adams St

- NOTES:**
- ALL WORK PERFORMED UNDER THIS PROJECT IS INTENDED TO OCCUR WITHIN DELDOT'S EXISTING RIGHT-OF-WAY BASED ON THE NEW CASTLE COUNTY TAX PARCEL MAP.
 - PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHOULD BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50:1 FLATTER) LANDING AREA OF THE CURB RAMP. THESE POLE BASES SHOULD BE FLUSH WITH THE ADJOINING LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES ABOVE THE LANDING AREA AND SHOULD BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE DOES NOT EXCEED 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSHBUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE.
 - ALL PEDESTRIAN SIGNALS SHALL CONTAIN PEDESTRIAN COUNTDOWN DISPLAYS.
 NW = R10-3eL (LEFT ARROW); NE = R10-3eR (RIGHT ARROW); SE & SW = R10-3e-DE (NO ARROW)
 - THE TRAFFIC CONTRACTOR SHALL ADJUST THE SIGNAL HEADS IN THE MAST ARM BRACKETS SO THAT THE BOTTOM OF THE SIGNAL HOUSINGS ARE AT LEAST 16'-0" ABOVE THE PAVEMENT.
 - THE TRAFFIC CONTRACTOR SHALL REMOVE THE EXISTING SIGNAL HEADS, SIGNAL CABLES, SPAN WIRES, OPTICOMS, AND CABINET AND INSTALL THE PROPOSED CABINET, MAST ARMS, SIGNAL HEADS, OPTICOMS, AND OVERHEAD SIGNS, AS SHOWN.
 - ALL STONE CURB REMOVED DURING CONSTRUCTION SHALL BE RETURNED TO THE CITY OF WILMINGTON.
 - DELDOT OIT SHALL INSTALL FIBER OPTIC CABLE IN THE PROPOSED SIGNAL CABINET USING PROPOSED CONDUIT RUNS NOS. 120 AND 121 AND EXISTING CONDUIT RUN NO. 108. THE CONTRACTOR SHALL CONTACT DENISE KSIAZEK (DELDOT) AT 302-981-6464 48 HOURS PRIOR TO INSTALLATION TO COORDINATE THE FIBER OPTIC CONNECTION.
 - THE CONTRACTOR SHALL ADJUST THE MANHOLE SO THAT IT IS FLUSH WITH THE PROPOSED CURB RAMP.
 - THE TRAFFIC CONTRACTOR SHALL INSTALL BACKPLATES ON ALL PROPOSED SIGNAL HEADS.
 - THE TRAFFIC CONTRACTOR SHALL INSTALL TUNNEL SHADES AND LOUVERS ON PROPOSED SIGNAL HEADS NOS. 1-4.
 - THE CONTRACTOR SHALL ADJUST THE FIRE HYDRANT SO THAT IT IS FLUSH WITH THE PROPOSED CURB RAMP.



LEGEND

EXISTING SYMBOL	PROPOSED SYMBOL
AB	ABANDON
CA	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
CA	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
CO	EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)
CO	PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)
JW	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
JW	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
MA	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
MA	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
OH	EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
OH	PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
PB	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
PB	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
PL	EXISTING POLE IDENTIFIER (* OF POLE)
PL	PROPOSED POLE IDENTIFIER (* OF POLE)
RM	REMOVE BY CONTRACTOR
RM	REMOVE BY OTHERS
RM	REMOVE BY TRAFFIC CONTRACTOR



MAST ARM SCHEDULE

MA#	HEIGHT OF POLE	LENGTH OF ARM	# OF HEADS	OPTICOM RECEIVERS	SF OF SIGNING	ARM MOUNT HEIGHT
1	21'-6"	35 FT	2	1	15 SF	20'-0"
2	21'-6"	35 FT	3	1	28.5 SF	18'-0"
3*	21'-6"	35 FT	2	1	22.5 SF	20'-0"

* FISHEYE WITH 78" MOUNTING ARM

ADDENDA / REVISIONS

1	SIGNAL RE-BUILD - INSTALLED MAST ARMS AND VIDEO DETECTION K.M.K. (WRA) 01-2019 (CONTRACT T201906105)
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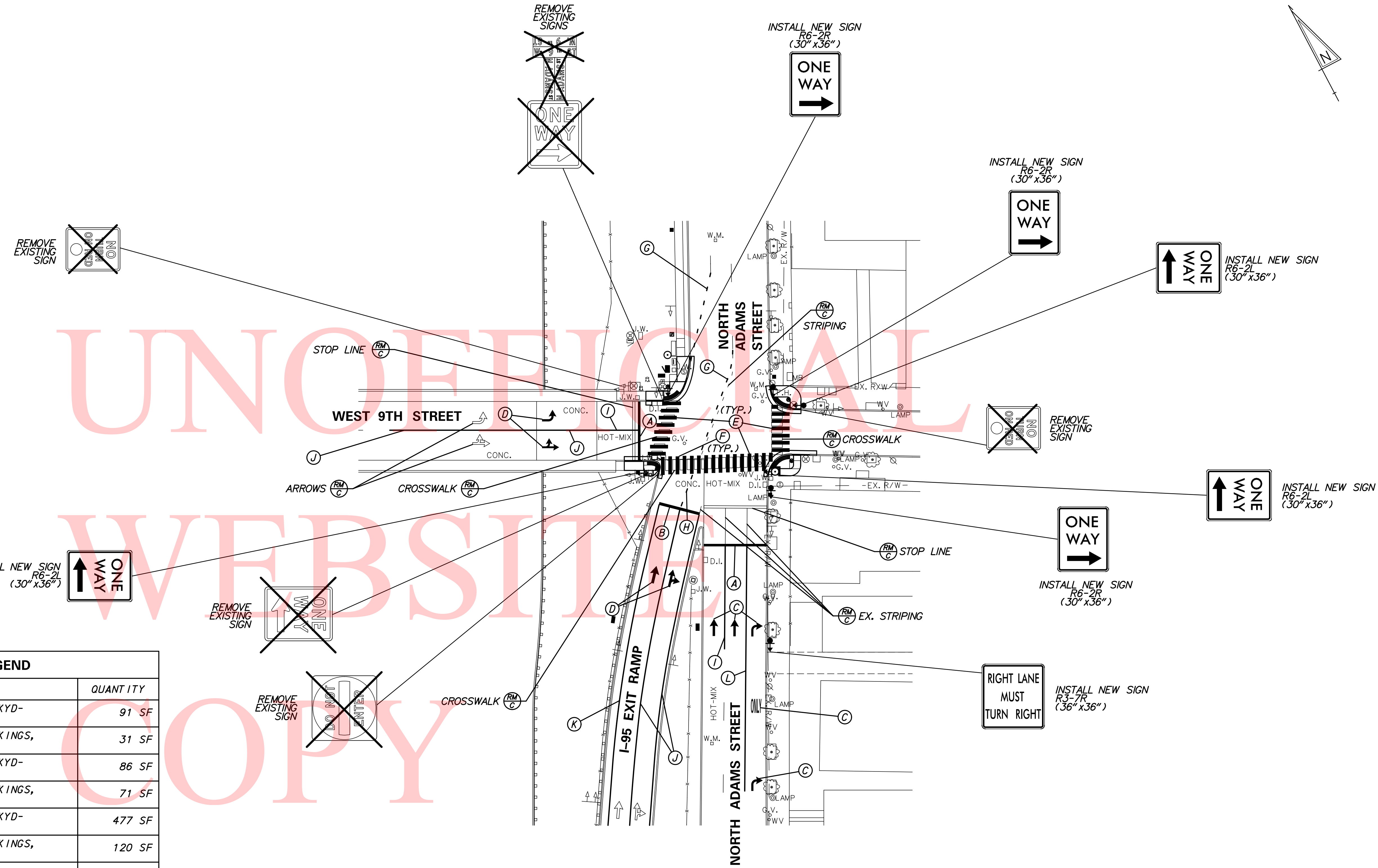
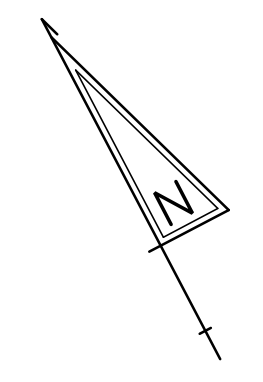


PAVEMENT & REHABILITATION, NORTH V (2015 HEP, SITE A)

CONTRACT	T201906105	PERMIT NO.	N305	SECTION	WRA
COUNTY	NEW CASTLE	DESIGNED BY:	K.M.K. (WRA)	SHEET NO.	3
CHECKED BY:	M.J.B. (WRA)	DATE	1/17/19		

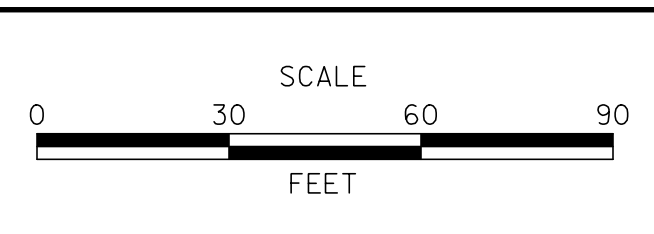
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PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	PERMANENT PAVEMENT STRIPING, SYMBOL, ALKYD-THERMOPLASTIC, WHITE, 16" (ITEM 817002)	91 SF
(B)	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL (TAPE), WHITE, 16" (ITEM 817012)	31 SF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL, ALKYD-THERMOPLASTIC (ITEM 817002)	86 SF
(D)	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL (TAPE) (ITEM 817012)	71 SF
(E)	PERMANENT PAVEMENT STRIPING, SYMBOL, ALKYD-THERMOPLASTIC, 2' x 10' (ITEM 817002)	477 SF
(F)	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL (TAPE), 2' x 10' (ITEM 817012)	120 SF
(G)	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5", 2' LINE 6' GAP (ITEM 817005)	30 LF
(H)	RETROREFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 8" (TAPE), 2' LINE, 6" GAP (ITEM 817022)	6 LF
(I)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 5" (ITEM 817013)	80 LF
(J)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 5" (ITEM 817013)	468 LF
(J)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 3" (ITEM 817018)	468 LF
(K)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 5" (ITEM 817013)	181 LF
(L)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, WHITE, 10" (ITEM 817014)	136 LF

ADDENDA / REVISIONS



**PAVEMENT & REHABILITATION,
NORTH V
(2015 HEP, SITE A)**

CONTRACT T201906105	PERMIT NO. N305
COUNTY NEW CASTLE	DESIGNED BY: K.M.K. (WRA) CHECKED BY: M.J.B. (WRA)

**SIGNING & STRIPING PLAN
NORTH ADAMS STREET
@ WEST 9TH STREET/
NB I-95 EXIT RAMP**

SECTION WRA
SHEET NO. 5

M:\31957\015\CAAD\SS01-N Adams St @ 9th St.dgn
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CONDUIT RUN SCHEDULE					
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
5	1	2.5 IN	298 FT	T	[NEW (1) FIBER]
6	1	2.5 IN	90 FT	B	[NEW (1) FIBER]
7	1	2.5 IN	56 FT	B	[NEW (1) FIBER]
8	1	2.5 IN	224 FT	T	[NEW (1) FIBER]
OH 201*	-	-	94 FT	-	<REMOVE EX. (1) 2/*8 U.F. - LINE SIDE>
202*	1	1.5 IN	8 FT	-	<REMOVE EX. (1) 2/*8 U.F. W/GROUND - LOAD SIDE, EX. (2) 16/*14, EX. (2) COMM. CABLES, EX. (3) 4/*18>
OH 203*	-	-	68 FT	-	<REMOVE EX. (2) COMM. CABLES>
OH 204*	-	-	83 FT	-	<REMOVE EX. (1) 4/*18>
OH 205*	-	-	28 FT	-	<REMOVE EX. (1) 4/*18>
206*	1	2.5 IN	3 FT	-	<REMOVE EX. (1) 4/*18>
207**	1	2.0 IN	2 FT	O	[NEW (1) 2/*8 U.F. W/ GROUND - LINE SIDE]
208	2	4.0 IN	54 FT	B	[NEW (1) 2/*8 U.F. W/ GROUND - LINE SIDE] [NEW (2) 5/*14, (1) *6 GROUND]
209**	1	2.0 IN	2 FT	T	[NEW (1) 2/*8 U.F. W/ GROUND - LINE SIDE]
210**	1	2.0 IN	4 FT	T	[NEW (1) 2/*8 U.F. W/ GROUND - LOAD SIDE]
211	4	4.0 IN	4 FT	T	[NEW (1) FIBER] [NEW (2) 9/*14, (6) 5/*14, (2) 4/*18, (1) CAT 5e CABLE, (4) *6 GROUND]
212	1	2.5 IN	8 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]
213	1	2.5 IN	9 FT	T	[NEW (2) 5/*14, (1) *6 GROUND]
214	1	4.0 IN	12 FT	T	[NEW (2) 9/*14, (3) 5/*14, (2) 4/*18, (1) CAT 5e CABLE, (1) *6 GROUND]
215	1	2.5 IN	6 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]
216	1	4.0 IN	41 FT	B	[NEW (2) 9/*14, (2) 5/*14, (2) 4/*18, (1) CAT 5e CABLE, (1) *6 GROUND]
217	1	2.5 IN	7 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]
218	1	3.0 IN	7 FT	T	[NEW (2) 9/*14, (2) 4/*18, (1) CAT 5e CABLE, (1) *6 GROUND]
219	1	4.0 IN	66 FT	B	[NEW (1) 5/*14, (1) *6 GROUND]
220	1	2.5 IN	14 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]

* DENOTES EXISTING CONDUIT B = BORE, T = TRENCH, O = OPEN CUT
 ** PROPOSED RIGID GALVANIZED STEEL CONDUIT

MAST ARM SCHEDULE						
MA#	HEIGHT OF POLE	LENGTH OF ARM	# OF HEADS	# OPTICOM RECEIVERS	SF OF SIGNING	ARM MOUNT HEIGHT
1	21'-6"	55 FT	3	1	27 SF	20'-0"
2*	21'-6"	35 FT	2	1	16.5 SF	18'-0"

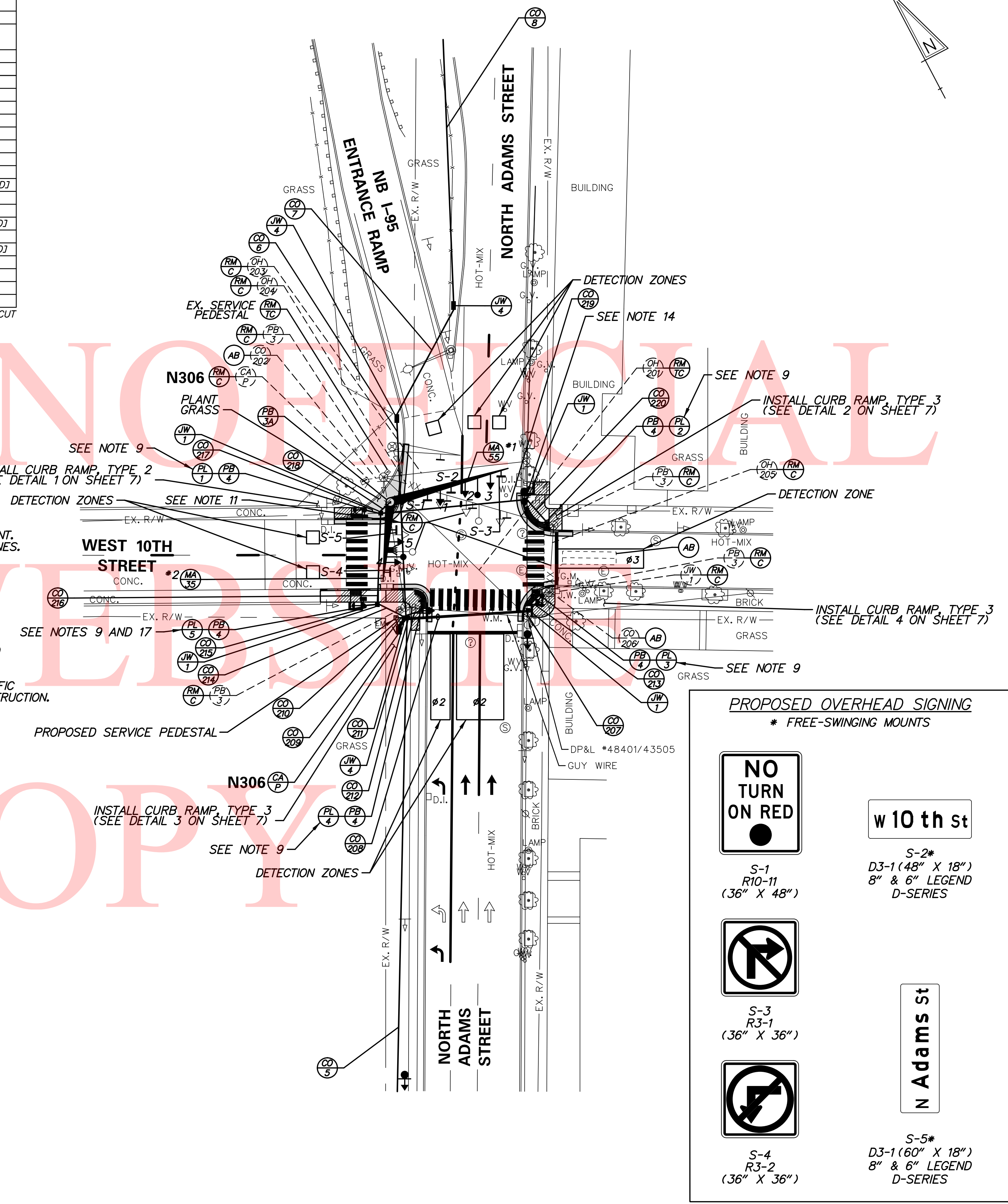
* FISHEYE WITH 78" MOUNTING ARM

NOTES:

- PROPOSED FISHEYE DETECTION ZONES:
 TYPE *2 6'x40' TO BE INSTALLED ON WESTBOUND W. 10TH STREET AND THE NORTHBOUND N. ADAMS STREET THRU/LEFT MOVEMENT.
 TYPE *2 - 18'x40' TO BE INSTALLED ON THE NORTHBOUND N. ADAMS STREET THRU MOVEMENT.
 SYSTEM - 6'x6' - TO BE INSTALLED ON W. 10TH STREET AND N. ADAMS STREET RECEIVING LANES.
- ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO THE CITY OF WILMINGTON.
- ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.
- ALL CONDUITS SHALL BE SCHEDULE 80 PVC WHEN INSTALLED BY TRENCHING/OPEN CUT AND HDPE SDR-13.5 WHEN INSTALLED BY BORING, UNLESS OTHERWISE NOTED.
- JUNCTION WELLS, CABINET BASES, AND POLE BASES ARE TO BE REMOVED IN ACCORDANCE WITH SECTION 211 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
- ALL PROPOSED SIGNAL POLES SHALL BE DELDOT MAST ARMS.
- ALL WORK PERFORMED UNDER THIS PROJECT IS INTENDED TO OCCUR WITHIN DELDOT'S EXISTING RIGHT-OF-WAY BASED ON THE NEW CASTLE COUNTY TAX PARCEL MAP.
- PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHOULD BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50:1 OR FLATTER) LANDING AREA OF THE CURB RAMP. THE POLE BASES SHOULD BE FLUSH WITH THE ADJOINING LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES ABOVE THE LANDING AREA AND SHOULD BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE DOES NOT EXCEED 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSHBUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE.
- ALL PEDESTRIAN SIGNALS SHALL CONTAIN PEDESTRIAN COUNTDOWN DISPLAYS.
 PL 4, 5 = R10-3eL (LEFT ARROW); PL 3 = R10-3e-DE (NO ARROW);
 PL 1, 2 = R10-3eR (RIGHT ARROW)
- THE TRAFFIC CONTRACTOR SHALL REMOVE THE EXISTING SIGNAL HEADS, SIGNAL CABLES, SPAN WIRES, OPTICOMS, AND CABINET AND INSTALL THE PROPOSED CABINET, MAST ARMS, SIGNAL HEADS, OPTICOMS, AND OVERHEAD SIGNS, AS SHOWN.
- THE CITY OF WILMINGTON SHALL MODIFY THE SIGNAL PHASING, AS SHOWN.
- ALL STONE CURB REMOVED DURING CONSTRUCTION SHALL BE RETURNED TO THE CITY OF WILMINGTON.
- THE CONTRACTOR SHALL ADJUST THE FIRE HYDRANT SO THAT IT IS FLUSH WITH THE PROPOSED CURB RAMP.
- THE TRAFFIC CONTRACTOR SHALL INSTALL BACKPLATES ON ALL PROPOSED SIGNAL HEADS.
- THE TRAFFIC CONTRACTOR SHALL ADJUST THE SIGNAL HEADS IN THE MAST ARM BRACKETS SO THAT THE BOTTOM OF THE SIGNAL HOUSINGS ARE AT LEAST 16'-0" ABOVE THE PAVEMENT.
- THE CONTRACTOR SHALL INSTALL P.C.C. CURB, TYPE 1-8, AS ONE MONOLITHIC PIECE, INTEGRATING THE POLE BASE, TYPE 4.

ADDENDA / REVISIONS

- SIGNAL RE-BUILD - INSTALLED MAST ARMS AND VIDEO DETECTION, AND ADDED WEST LEG CROSSING TO PED PHASE 2.
 K.M.K. (WRA) 01-2019 (CONTRACT T201906105)



SIGNAL PHASING

NEMA PHASING

PHASING NOTES

* SEE NOTE 12

- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
- PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

SIGNAL HEAD DIAGRAM

* BACKPLATES ON ALL SIGNAL HEADS (SEE NOTE 15)

* ALL EXISTING SIGNAL HEADS SHALL BE REMOVED

LEGEND

EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.
LOOP DETECTOR, TYPE 1	[Symbol]
LOOP DETECTOR, TYPE 2	[Symbol]
LUMINAIRE	[Symbol]
MAST ARM	[Symbol]
MICROWAVE DETECTION	[Symbol]
OPTICOM RECEIVER	[Symbol]
OVERHEAD SIGNING	[Symbol]
PEDESTRIAN POLE/BASE	[Symbol]
PEDESTRIAN PUSHBUTTON	[Symbol]
PEDESTRIAN SIGNAL HEAD	[Symbol]
RIGHT-OF-WAY	[Symbol]
SERVICE PEDESTAL	[Symbol]
SIGNAL CABINET	[Symbol]
SIGNAL HEAD	[Symbol]
SIGNAL POLE/BASE	[Symbol]
CCTV CAMERA	[Symbol]
SPAN WIRE	[Symbol]
UTILITY POLE	[Symbol]
VIDEO DETECTION (FISHEYE)	[Symbol]

PREPARED BY

1/17/19

DATE

APPROVED FOR INSTALLATION

[Signature]

CHIEF TRAFFIC ENGINEER

1/17/19

DATE

CONTRACT	PERMIT NO.	SECTION	WRA
T201906105	N306	SIGNAL PLAN	
COUNTY	DESIGNED BY: K.M.K. (WRA)	NORTH ADAMS STREET @ WEST 10TH STREET/ NB I-95 ENTRANCE RAMP	
NEW CASTLE	CHECKED BY: M.J.B. (WRA)	SHEET NO. 6	

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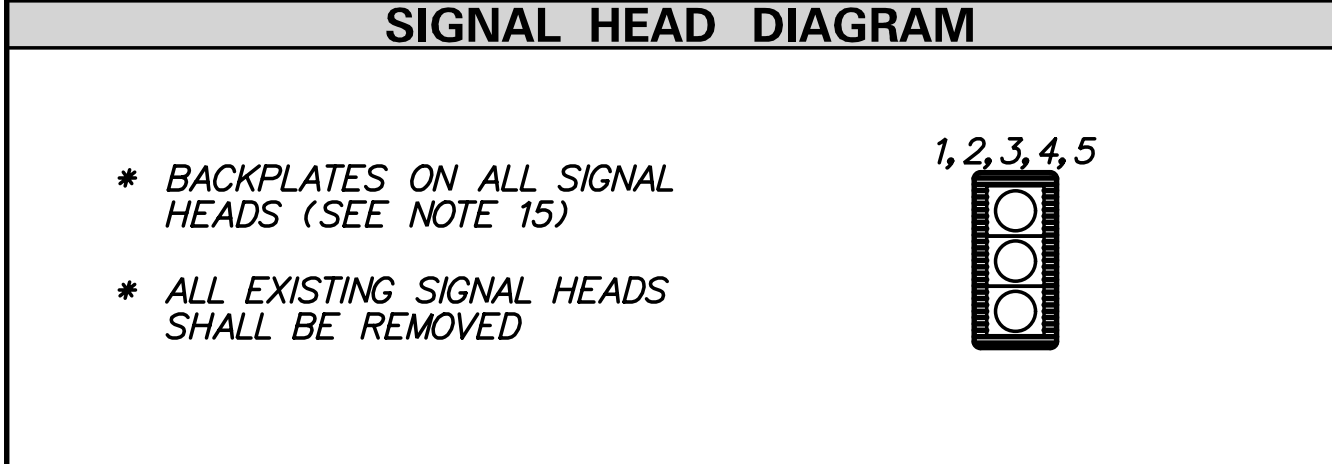
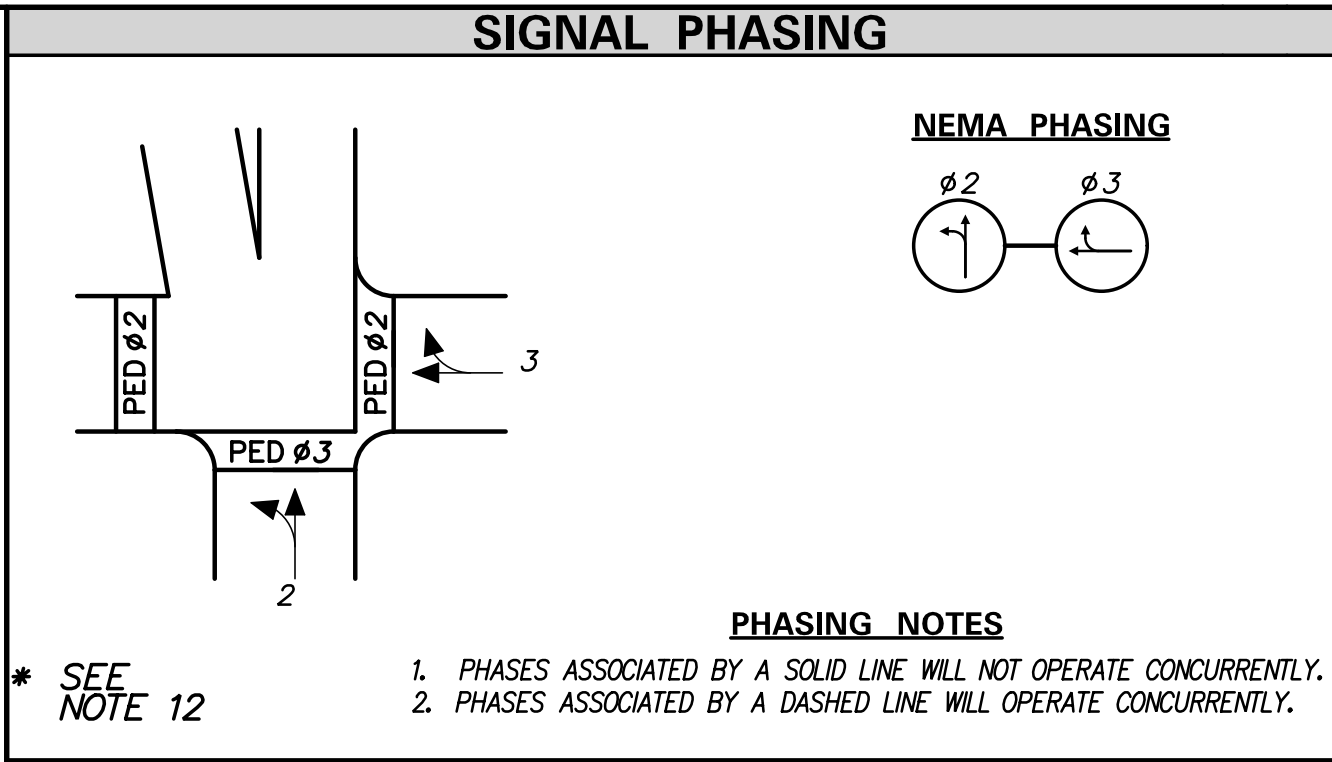
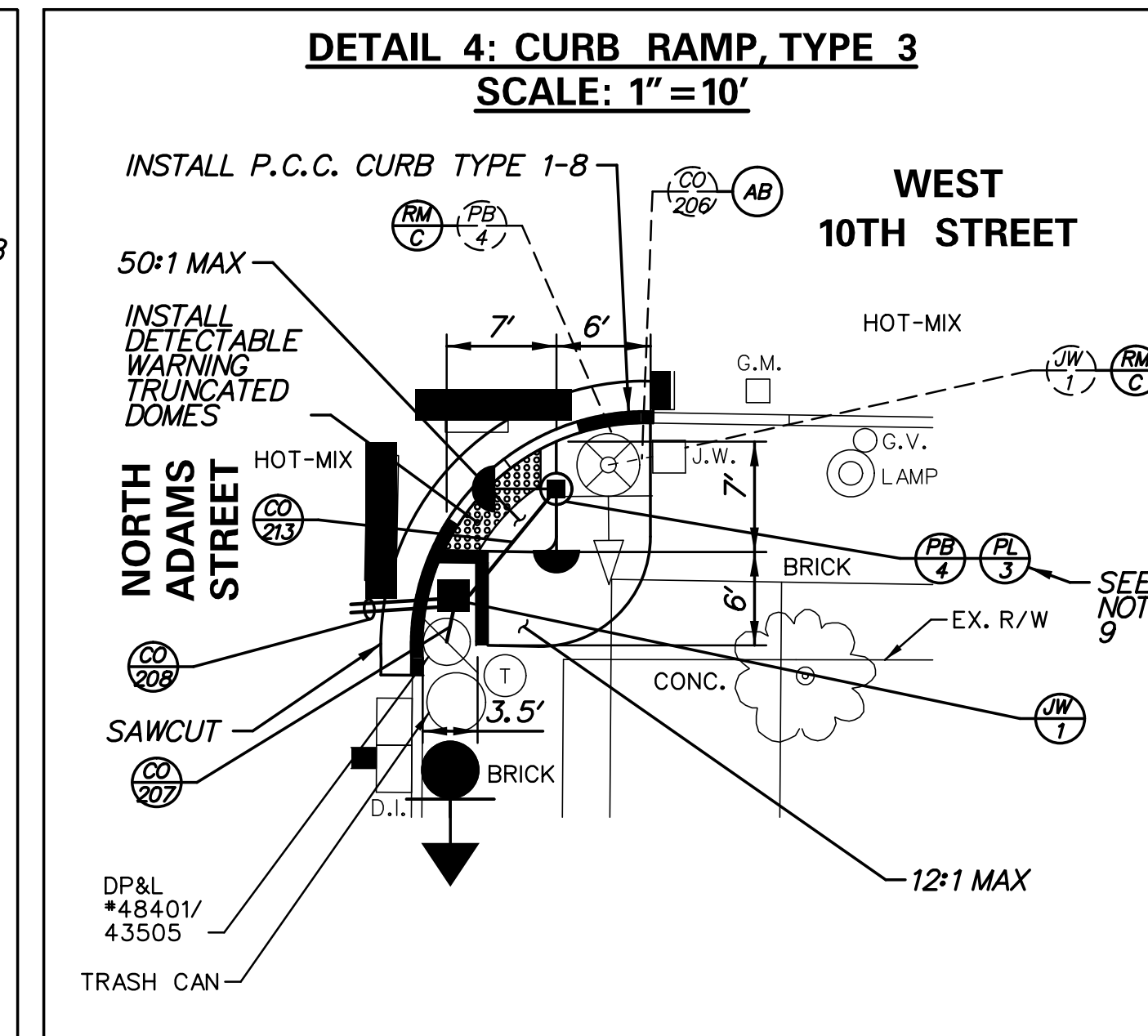
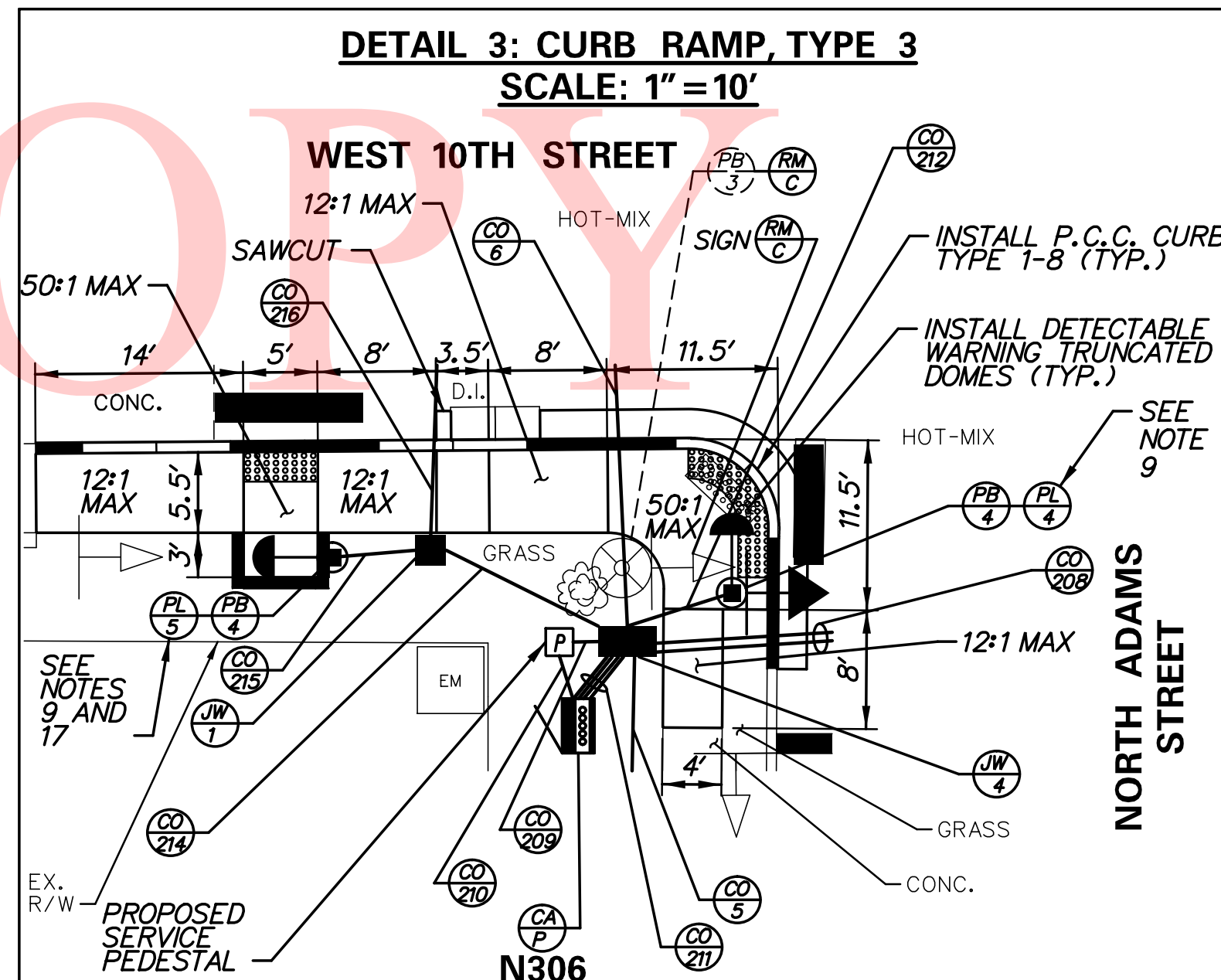
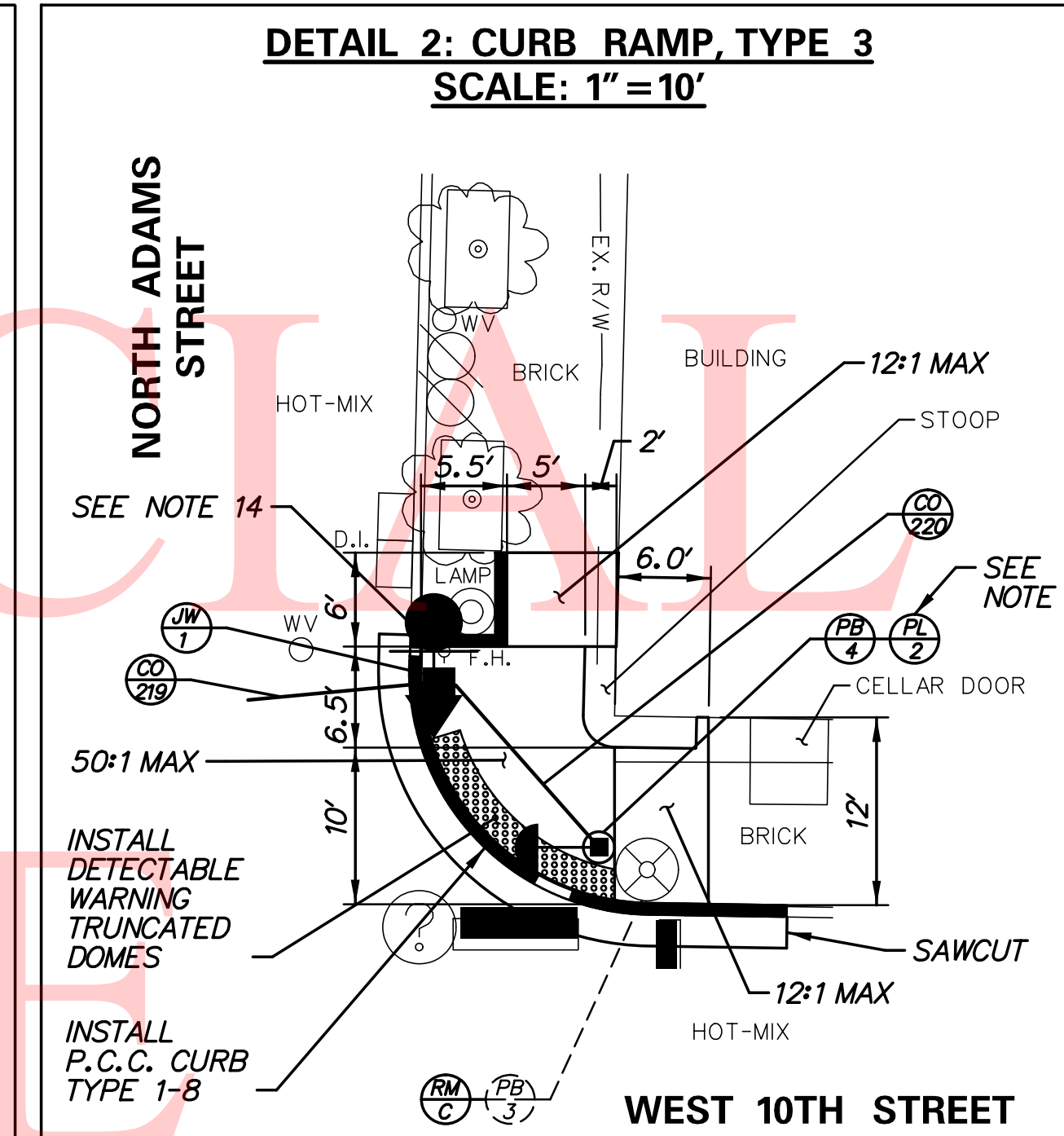
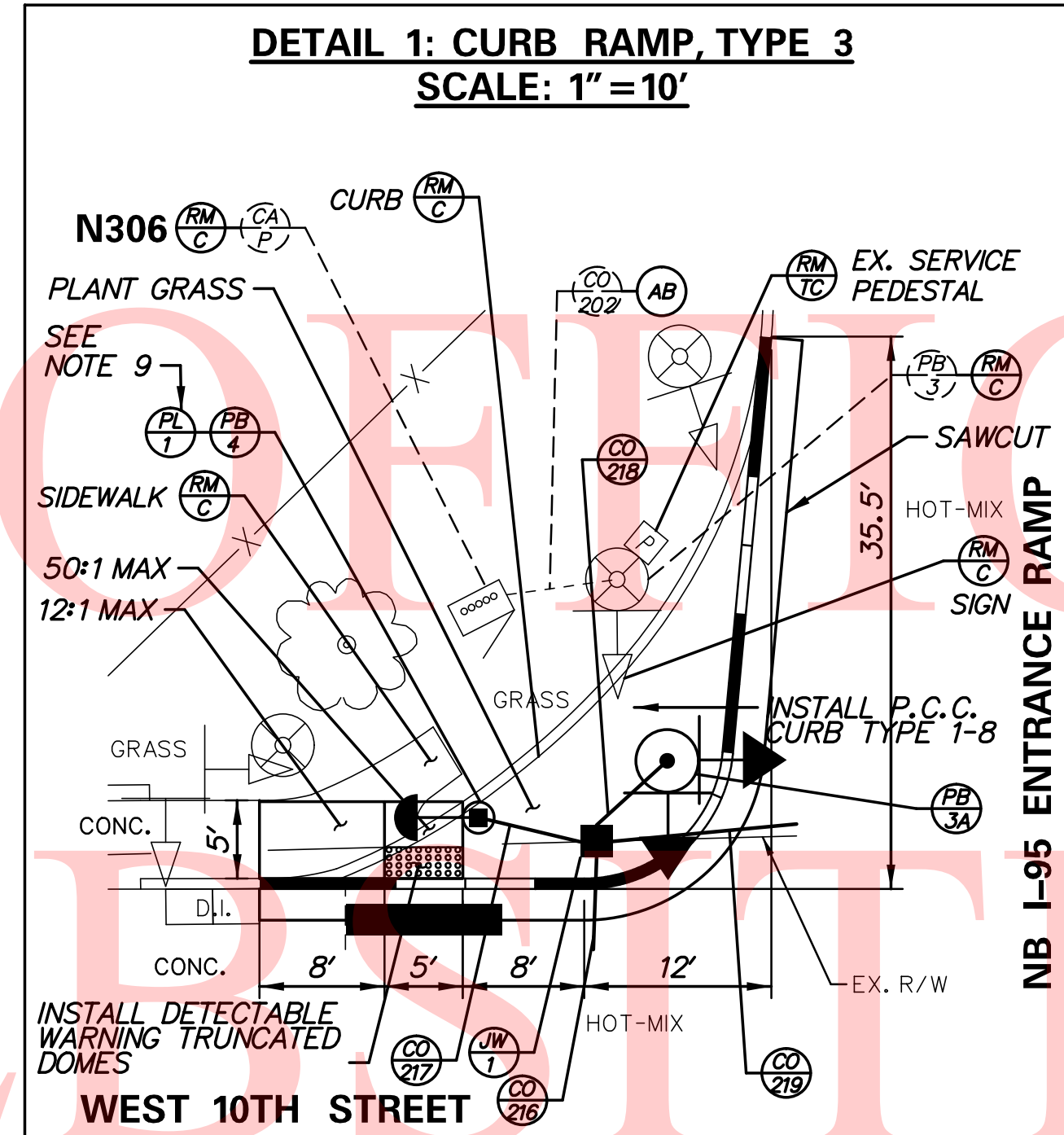


**PAVEMENT & REHABILITATION,
 NORTH V
 (2015 HEP, SITE A)**

CONDUIT RUN SCHEDULE					
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
5	1	2.5 IN	298 FT	T	[NEW (1) FIBER]
6	1	2.5 IN	90 FT	B	[NEW (1) FIBER]
7	1	2.5 IN	56 FT	B	[NEW (1) FIBER]
8	1	2.5 IN	224 FT	T	[NEW (1) FIBER]
OH 201*	-	-	94 FT	-	<REMOVE EX. (1) 2/*8 U.F. - LINE SIDE>
202*	1	1.5 IN	8 FT	-	<REMOVE EX. (1) 2/*8 U.F. W/ GROUND - LOAD SIDE, EX. (2) 16/*14, EX. (2) COMM. CABLES, EX. (3) 4/*18>
OH 203*	-	-	68 FT	-	<REMOVE EX. (2) COMM. CABLES>
OH 204*	-	-	83 FT	-	<REMOVE EX. (1) 4/*18>
OH 205*	-	-	28 FT	-	<REMOVE EX. (1) 4/*18>
206*	1	2.5 IN	3 FT	-	<REMOVE EX. (1) 4/*18>
207**	1	2.0 IN	2 FT	O	[NEW (1) 2/*8 U.F. W/ GROUND - LINE SIDE]
208	2	4.0 IN	54 FT	B	[NEW (1) 2/*8 U.F. W/ GROUND - LINE SIDE] [NEW (2) 5/*14, (1) *6 GROUND]
209**	1	2.0 IN	2 FT	T	[NEW (1) 2/*8 U.F. W/ GROUND - LINE SIDE]
210**	1	2.0 IN	4 FT	T	[NEW (1) 2/*8 U.F. W/ GROUND - LOAD SIDE]
211	4	4.0 IN	4 FT	T	[NEW (1) FIBER] [NEW (2) 9/*14, (6) 5/*14, (2) 4/*18, (1) CAT 5e CABLE, (4) *6 GROUND]
212	1	2.5 IN	8 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]
213	1	2.5 IN	9 FT	T	[NEW (2) 5/*14, (1) *6 GROUND]
214	1	4.0 IN	12 FT	T	[NEW (2) 9/*14, (3) 5/*14, (2) 4/*18, (1) CAT 5e CABLE, (1) *6 GROUND]
215	1	2.5 IN	6 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]
216	1	4.0 IN	41 FT	B	[NEW (2) 9/*14, (2) 5/*14, (2) 4/*18, (1) CAT 5e CABLE, (1) *6 GROUND]
217	1	2.5 IN	7 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]
218	1	3.0 IN	7 FT	T	[NEW (2) 9/*14, (2) 4/*18, (1) CAT 5e CABLE, (1) *6 GROUND]
219	1	4.0 IN	66 FT	B	[NEW (1) 5/*14, (1) *6 GROUND]
220	1	2.5 IN	14 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]

* DENOTES EXISTING CONDUIT
 ** PROPOSED RIGID GALVANIZED STEEL CONDUIT
 B = BORE, T = TRENCH, O = OPEN CUT

- NOTES:**
- PROPOSED FISHEYE DETECTION ZONES:
 TYPE #2 - 6'x40' - TO BE INSTALLED ON WESTBOUND W. 10TH STREET AND THE NORTHBOUND N. ADAMS STREET THRU/LEFT MOVEMENT.
 TYPE #2 - 18'x40' - TO BE INSTALLED ON THE NORTHBOUND N. ADAMS STREET THRU MOVEMENT.
 SYSTEM - 6'x6' - TO BE INSTALLED ON W. 10TH STREET AND N. ADAMS STREET RECEIVING LANES.
 - ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO THE CITY OF WILMINGTON.
 - ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
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 - JUNCTION WELLS, CABINET BASES, AND POLE BASES ARE TO BE REMOVED IN ACCORDANCE WITH SECTION 211 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
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 - ALL WORK PERFORMED UNDER THIS PROJECT IS INTENDED TO OCCUR WITHIN DELDOT'S EXISTING RIGHT-OF-WAY BASED ON THE NEW CASTLE COUNTY TAX PARCEL MAP.
 - PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHOULD BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50:1 OR FLATTER) LANDING AREA OF THE CURB RAMP. THE POLE BASES SHOULD BE FLUSH WITH THE ADJOINING LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES ABOVE THE LANDING AREA AND SHOULD BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE DOES NOT EXCEED 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSHBUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE.
 - ALL PEDESTRIAN SIGNALS SHALL CONTAIN PEDESTRIAN COUNTDOWN DISPLAYS.
 PL 4, 5 = R10-3aL (LEFT ARROW); PL 3 = R10-3e-DE (NO ARROW);
 PL 1, 2 = R10-3eR (RIGHT ARROW)
 - THE TRAFFIC CONTRACTOR SHALL REMOVE THE EXISTING SIGNAL HEADS, SIGNAL CABLES, SPAN WIRES, OPTICOMS, AND CABINET AND INSTALL THE PROPOSED CABINET, MAST ARMS, SIGNAL HEADS, OPTICOMS, AND OVERHEAD SIGNS, AS SHOWN.
 - THE CITY OF WILMINGTON SHALL MODIFY THE SIGNAL PHASING, AS SHOWN.
 - ALL STONE CURB REMOVED DURING CONSTRUCTION SHALL BE RETURNED TO THE CITY OF WILMINGTON.
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 - THE TRAFFIC CONTRACTOR SHALL INSTALL BACKPLATES ON ALL PROPOSED SIGNAL HEADS.
 - THE TRAFFIC CONTRACTOR SHALL ADJUST THE SIGNAL HEADS IN THE MAST ARM BRACKETS SO THAT THE BOTTOM OF THE SIGNAL HOUSINGS ARE AT LEAST 16'-0" ABOVE THE PAVEMENT.
 - THE CONTRACTOR SHALL INSTALL P.C.C. CURB, TYPE 1-8, AS ONE MONOLITHIC PIECE, INTEGRATING THE POLE BASE, TYPE 4.



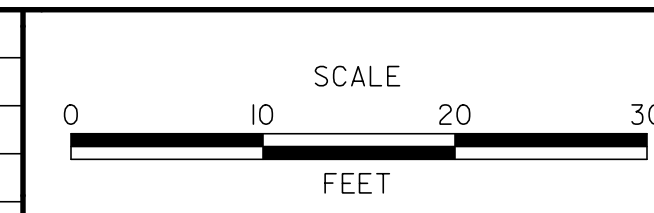
LEGEND			
EXISTING SYMBOL	EXISTING SYMBOL	PROPOSED SYMBOL	
(AB)	ABANDON	(OH)	EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	(OH)	PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(CA)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	(PB)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)	(PB)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)	(PL)	EXISTING POLE IDENTIFIER (* OF POLE)
(JW)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(PL)	PROPOSED POLE IDENTIFIER (* OF POLE)
(JW)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(RM)	REMOVE BY CONTRACTOR
(MA)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY OTHERS
(MA)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY TRAFFIC CONTRACTOR

EXISTING SYMBOL	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1	□	□
LOOP DETECTOR, TYPE 2	□	□
LUMINAIRE	⊙	⊙
MAST ARM	⊙	⊙
MICROWAVE DETECTION	⊙	⊙
OPTICOM RECEIVER	⊙	⊙
OVERHEAD SIGNING	⊙	⊙
PEDESTRIAN POLE/BASE	⊙	⊙
PEDESTRIAN PUSHBUTTON	⊙	⊙
PEDESTRIAN SIGNAL HEAD	⊙	⊙
RIGHT-OF-WAY	---	R/W
SERVICE PEDESTAL	□	□
SIGNAL CABINET	□	□
SIGNAL HEAD	⊙	⊙
SIGNAL POLE/BASE	⊙	⊙
CCTV CAMERA	⊙	⊙
SPAN WIRE	XX	XX
UTILITY POLE	⊙	⊙
VIDEO DETECTION (FISHEYE)	⊙	⊙

PREPARED BY
WRA Whitman, Reardon and Associates, LLP
 Engineers - Architects - Environmental Planners Est. 1915
 DATE: 1/17/19
 THIS SEAL APPLIES TO ALL SHEETS BEARING THE "WRA" SECTION DESIGNATION.
 APPROVED FOR INSTALLATION
 CHIEF TRAFFIC ENGINEER: [Signature] DATE: 1/17/19

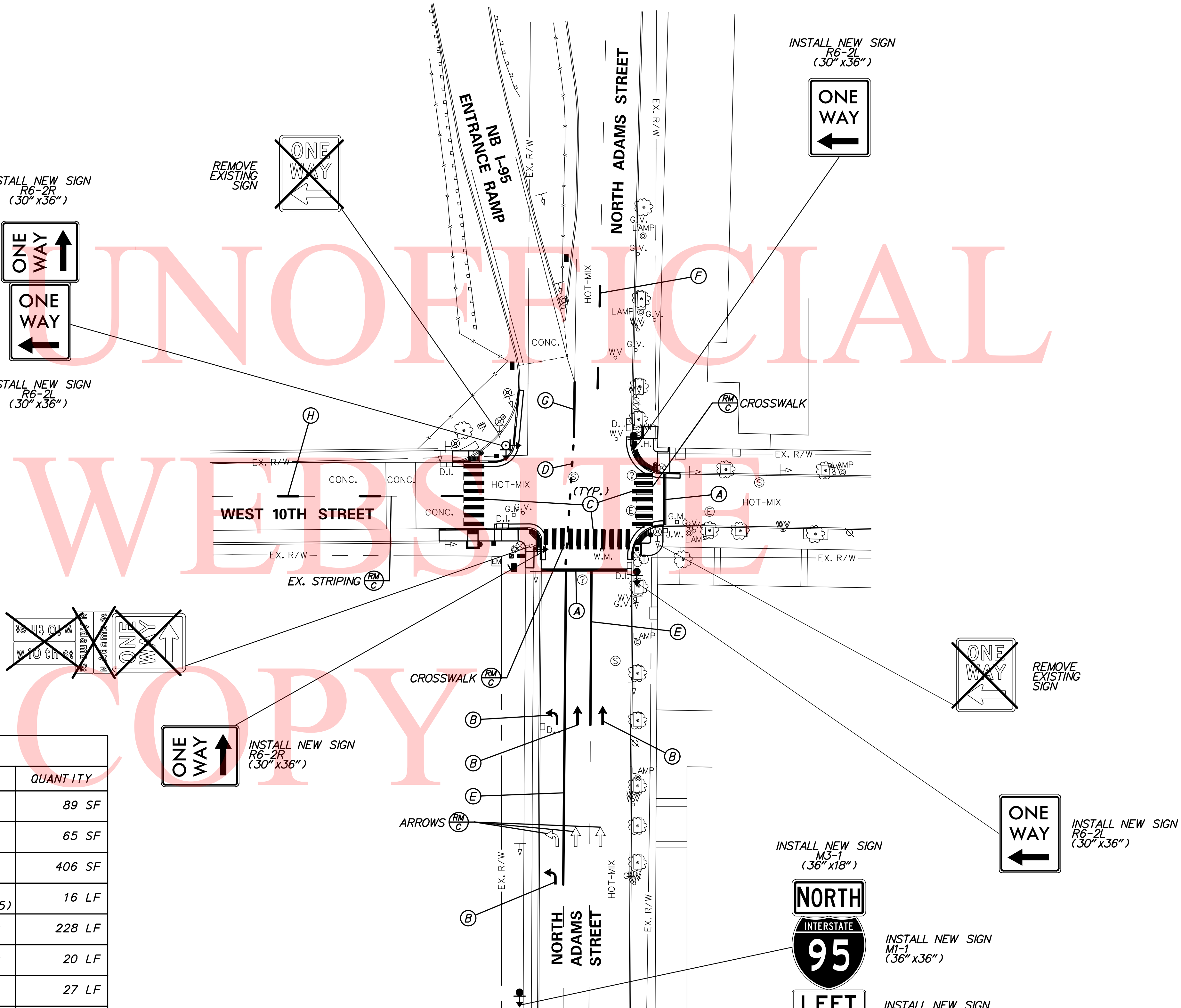
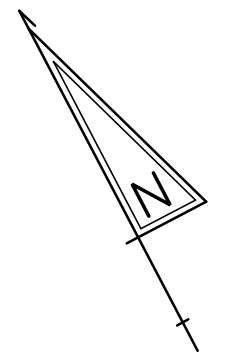
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ADDENDA / REVISIONS	
1	SIGNAL RE-BUILD - INSTALLED MAST ARMS AND VIDEO DETECTION, AND ADDED WEST LEG CROSSING TO PED PHASE 2, K.M.K. (WRA) 01-2019 (CONTRACT T201906105)



PAVEMENT & REHABILITATION,
 NORTH V
 (2015 HEP, SITE A)

CONTRACT	T201906105	PERMIT NO.	N306	SECTION	WRA
COUNTY	NEW CASTLE	DESIGNED BY:	K.M.K. (WRA)	SHEET NO.	7
		CHECKED BY:	M.J.B. (WRA)		



UNOFFICIAL
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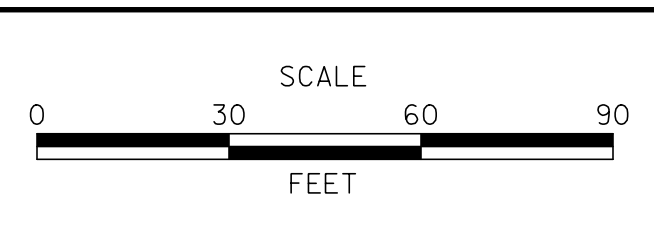
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	PERMANENT PAVEMENT STRIPING, SYMBOL, ALKYD-THERMOPLASTIC, WHITE, 16" (ITEM 817002)	89 SF
(B)	PERMANENT PAVEMENT STRIPING, SYMBOL, ALKYD-THERMOPLASTIC (ITEM 817002)	65 SF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL, ALKYD-THERMOPLASTIC, 2' x 10' (ITEM 817002)	406 SF
(D)	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5", 2' LINE, 6' GAP (ITEM 817005)	16 LF
(E)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 5" (ITEM 817013)	228 LF
(F)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 5", 10' LINE, 30' GAP (ITEM 817013)	20 LF
(G)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, WHITE, 10" (ITEM 817014)	27 LF
(H)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 5", 10' LINE, 30' GAP (ITEM 817013)	30 LF
	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, BLACK, 5", 10' LINE, 30' GAP (ITEM 817019)	30 LF

REMOVE EXISTING SIGNS

REMOVE EXISTING SIGN

REMOVE EXISTING SIGN

ADDENDA / REVISIONS



**PAVEMENT & REHABILITATION,
NORTH V
(2015 HEP, SITE A)**

CONTRACT	PERMIT NO.	N306
T201906105	DESIGNED BY:	K.M.K. (WRA)
COUNTY	CHECKED BY:	M.J.B. (WRA)
NEW CASTLE		

SIGNING & STRIPING PLAN	
NORTH ADAMS STREET	
@ WEST 10TH STREET/	
NB I-95 ENTRANCE RAMP	
SECTION	WRA
SHEET NO.	8

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PROPOSED OVERHEAD SIGNING

*FREE-SWINGING MOUNTS

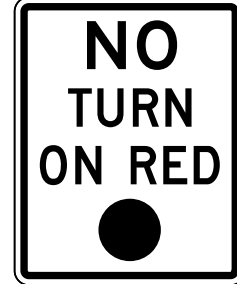


S-1 R3-2 (36" X 36")

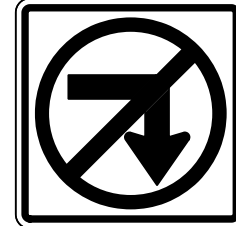
w 11th St

S-2* D3-1 (48" X 18") 8" & 6" LEGEND D-SERIES

N Adams St



S-3 R10-11 (36" X 48")



S-5 R3-1 (36" X 36")

S-4* D3-1 (60" X 18") 8" & 6" LEGEND D-SERIES

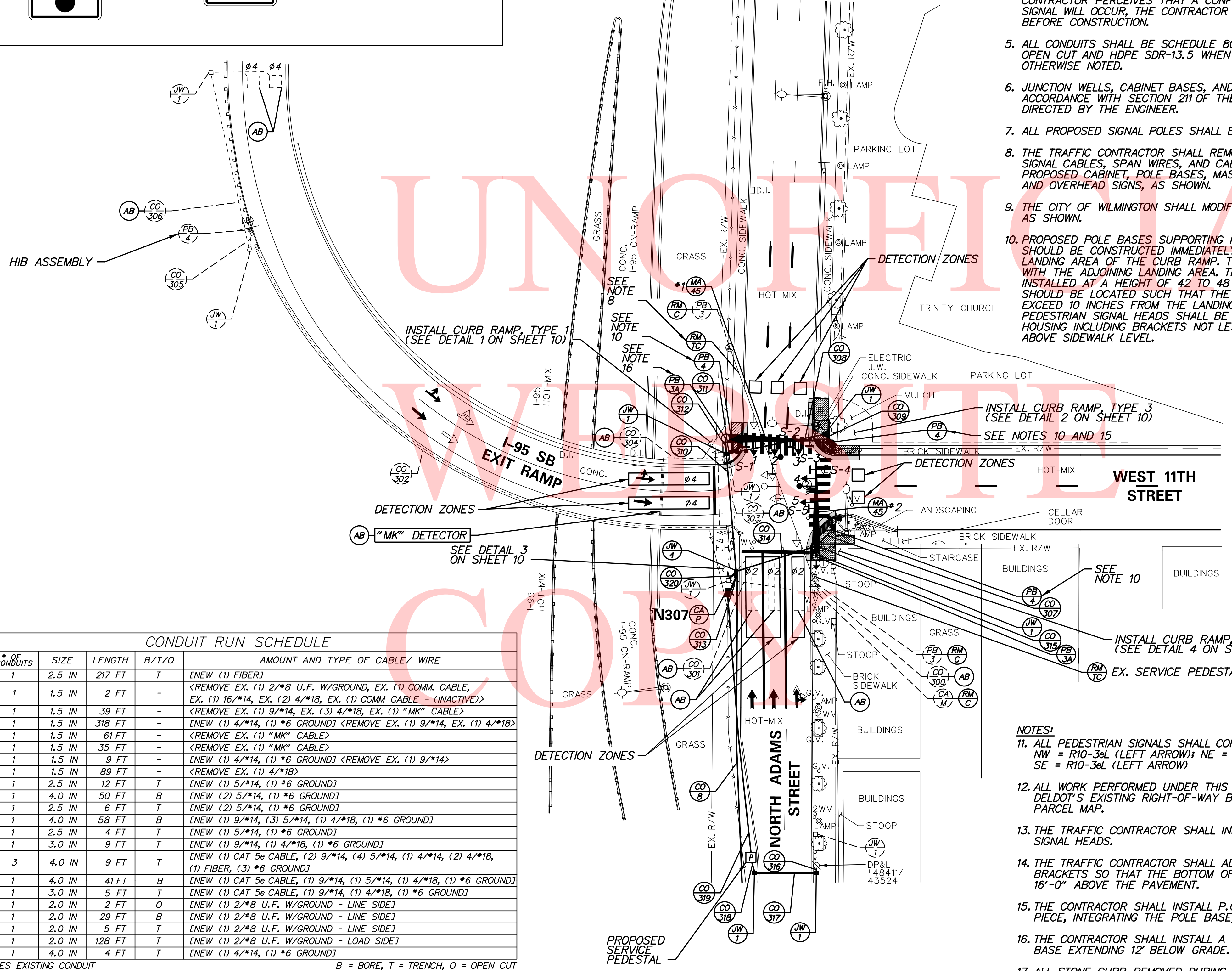
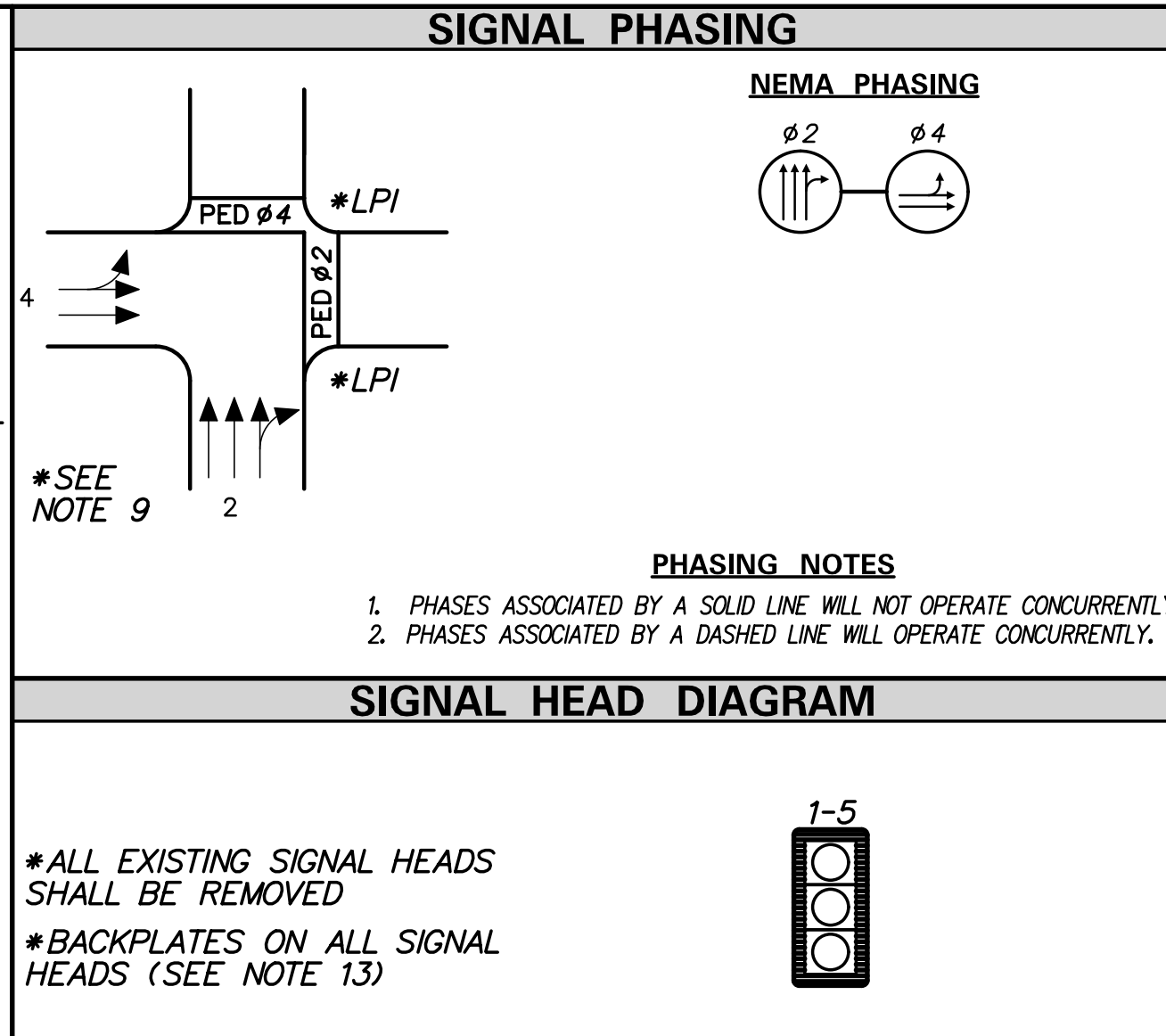
MAST ARM SCHEDULE

MA*	HEIGHT OF POLE	LENGTH OF ARM	* OF HEADS	* OPTICOM RECEIVERS	SF OF SIGNING	ARM MOUNT HEIGHT
1	21'-6"	45 FT	3	1	15 SF	20'-0"
*2	21'-6"	45 FT	2	1	16.5 SF	20'-0"

* FISHEYE WITH 78" MOUNTING ARM

NOTES:

- PROPOSED FISHEYE DETECTION ZONES:
TYPE *2 - 6'x40' - TO BE INSTALLED ON THE EASTBOUND I-95 SB EXIT RAMP AND THE NORTHBOUND N. ADAMS STREET THRU/RIGHT MOVEMENT.
TYPE *2 - 18'x40' - TO BE INSTALLED ON THE NORTHBOUND N. ADAMS STREET THRU MOVEMENT.
SYSTEM - 6'x8' - TO BE INSTALLED ON W. 11TH STREET AND N. ADAMS STREET RECEIVING LANES.
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- THE TRAFFIC CONTRACTOR SHALL REMOVE THE EXISTING SIGNAL HEADS, SIGNAL CABLES, SPAN WIRES, AND CABINET AND INSTALL THE PROPOSED CABINET, POLE BASES, MAST ARMS, SIGNAL HEADS, AND OVERHEAD SIGNS, AS SHOWN.
- THE CITY OF WILMINGTON SHALL MODIFY THE SIGNAL PHASING, AS SHOWN.
- PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHOULD BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50:1 FLATTER) LANDING AREA OF THE CURB RAMP. THESE POLE BASES SHOULD BE FLUSH WITH THE ADJOINING LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES FROM THE LANDING AREA AND SHOULD BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE DOES NOT EXCEED 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSHBUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE SIDEWALK LEVEL.



LEGEND

EXISTING SYMBOL	PROPOSED SYMBOL
AB	ABANDON
CA	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
CA	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
CO	EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)
CO	PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)
JW	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
JW	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
MA	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
MA	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
OH	EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
OH	PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
PB	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
PB	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
PL	EXISTING POLE IDENTIFIER (* OF POLE)
PL	PROPOSED POLE IDENTIFIER (* OF POLE)
RC	REMOVE BY CONTRACTOR
RO	REMOVE BY OTHERS
TC	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1	[Symbol]	[Symbol]
LOOP DETECTOR, TYPE 2	[Symbol]	[Symbol]
LUMINAIRE	[Symbol]	[Symbol]
MAST ARM	[Symbol]	[Symbol]
MICROWAVE DETECTION	[Symbol]	[Symbol]
OPTICOM RECEIVER	[Symbol]	[Symbol]
OVERHEAD SIGNING	[Symbol]	[Symbol]
PEDESTRIAN POLE/BASE	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON	[Symbol]	[Symbol]
PEDESTRIAN SIGNAL HEAD	[Symbol]	[Symbol]
RIGHT-OF-WAY	[Symbol]	[Symbol]
SERVICE PEDESTAL	[Symbol]	[Symbol]
SIGNAL CABINET	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL POLE/BASE	[Symbol]	[Symbol]
CCTV CAMERA	[Symbol]	[Symbol]
SPAN WIRE	[Symbol]	[Symbol]
UTILITY POLE	[Symbol]	[Symbol]
VIDEO DETECTION (FISHEYE)	[Symbol]	[Symbol]

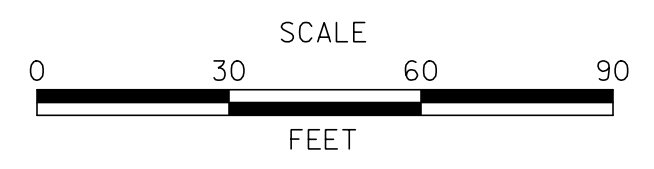
CONDUIT RUN SCHEDULE

CO#	* OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
8	1	2.5 IN	217 FT	T	[NEW (1) FIBER]
300*	1	1.5 IN	2 FT	-	<REMOVE EX. (1) 2/*8 U.F. W/GROUND, EX. (1) COMM. CABLE, EX. (1) 16/*14, EX. (2) 4/*18, EX. (1) COMM. CABLE - (INACTIVE)>
301*	1	1.5 IN	39 FT	-	<REMOVE EX. (1) 9/*14, EX. (3) 4/*18, EX. (1) "MK" CABLE>
302*	1	1.5 IN	318 FT	-	[NEW (1) 4/*14, (1) *6 GROUND] <REMOVE EX. (1) 9/*14, EX. (1) 4/*18>
303*	1	1.5 IN	61 FT	-	<REMOVE EX. (1) "MK" CABLE>
304*	1	1.5 IN	35 FT	-	<REMOVE EX. (1) "MK" CABLE>
305*	1	1.5 IN	9 FT	-	[NEW (1) 4/*14, (1) *6 GROUND] <REMOVE EX. (1) 9/*14>
306*	1	1.5 IN	89 FT	-	<REMOVE EX. (1) 4/*18>
307	1	2.5 IN	12 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]
308	1	4.0 IN	50 FT	B	[NEW (2) 5/*14, (1) *6 GROUND]
309	1	2.5 IN	6 FT	T	[NEW (2) 5/*14, (1) *6 GROUND]
310	1	4.0 IN	58 FT	B	[NEW (1) 9/*14, (3) 5/*14, (1) 4/*18, (1) *6 GROUND]
311	1	2.5 IN	4 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]
312	1	3.0 IN	9 FT	T	[NEW (1) 9/*14, (1) 4/*18, (1) *6 GROUND]
313	3	4.0 IN	9 FT	T	[NEW (1) CAT 5e CABLE, (2) 9/*14, (4) 5/*14, (1) 4/*18, (2) 4/*18, (1) FIBER, (3) *6 GROUND]
314	1	4.0 IN	41 FT	B	[NEW (1) CAT 5e CABLE, (1) 9/*14, (1) 5/*14, (1) 4/*18, (1) *6 GROUND]
315	1	3.0 IN	5 FT	T	[NEW (1) CAT 5e CABLE, (1) 9/*14, (1) 4/*18, (1) *6 GROUND]
316**	1	2.0 IN	2 FT	O	[NEW (1) 2/*8 U.F. W/GROUND - LINE SIDE]
317	1	2.0 IN	29 FT	B	[NEW (1) 2/*8 U.F. W/GROUND - LINE SIDE]
318**	1	2.0 IN	5 FT	T	[NEW (1) 2/*8 U.F. W/GROUND - LINE SIDE]
319**	1	2.0 IN	128 FT	T	[NEW (1) 2/*8 U.F. W/GROUND - LOAD SIDE]
320	1	4.0 IN	4 FT	T	[NEW (1) 4/*14, (1) *6 GROUND]

* DENOTES EXISTING CONDUIT
** PROPOSED RIGID GALVANIZED STEEL CONDUIT
B = BORE, T = TRENCH, O = OPEN CUT

ADDENDA / REVISIONS

1 SIGNAL RE-BUILD - INSTALLED MAST ARMS AND VIDEO DETECTION. S.C.H. (WRA) 01-2019 (CONTRACT T201906105)



PAVEMENT & REHABILITATION, NORTH V (2015 HEP, SITE A)

CONTRACT	T201906105	PERMIT NO.	N307	SECTION	WRA
COUNTY	NEW CASTLE	DESIGNED BY:	S.C.H. (WRA)	SHEET NO.	9
CHECKED BY:	M.J.B. (WRA)	APPROVED FOR INSTALLATION		DATE: 1/17/19	
			CHIEF TRAFFIC ENGINEER		

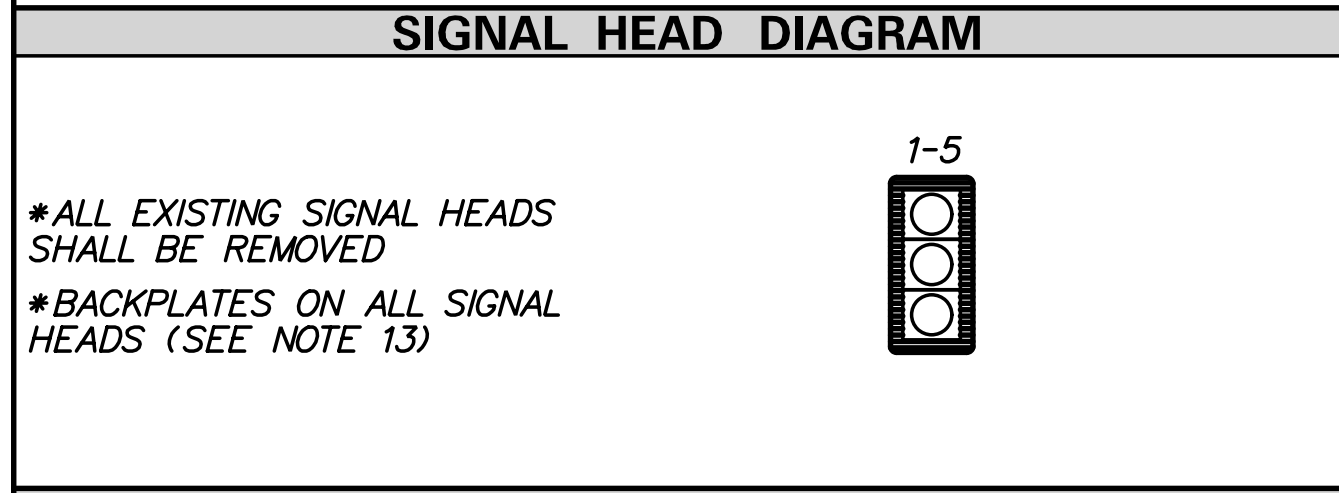
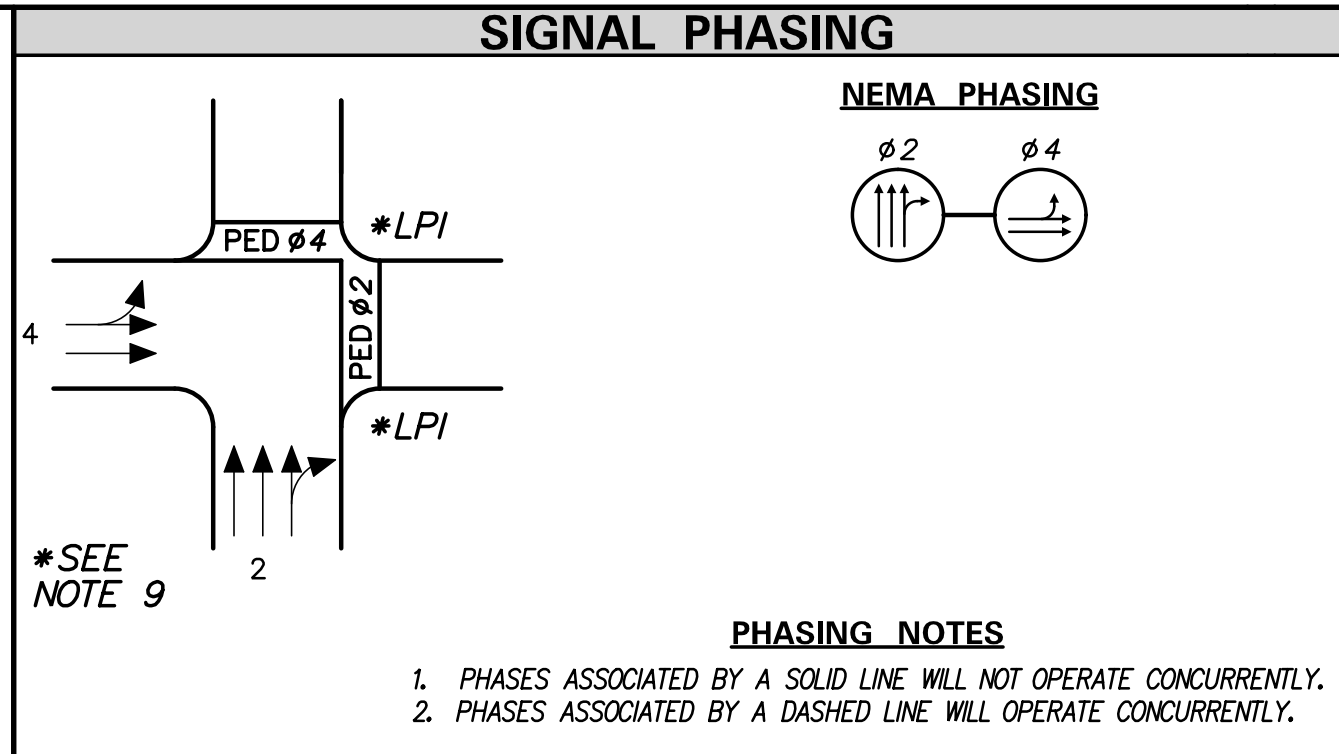
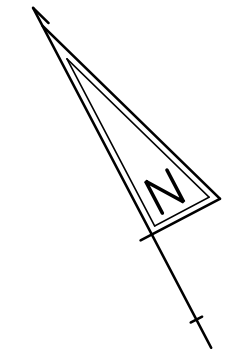
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NOTES:

- PROPOSED FISHEYE DETECTION ZONES:
TYPE #2 - 6'x40' - TO BE INSTALLED ON THE EASTBOUND I-95 SB EXIT RAMP AND THE NORTHBOUND N. ADAMS STREET THRU/RIGHT MOVEMENT.
TYPE #2 - 18'x40' - TO BE INSTALLED ON THE NORTHBOUND N. ADAMS STREET THRU MOVEMENT.
SYSTEM - 6'x6' - TO BE INSTALLED ON W. 11TH STREET AND N. ADAMS STREET RECEIVING LANES.
- ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO THE CITY OF WILMINGTON.
- ALL GALVANIZED CONDUIT (GRC) SHALL BE BEAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.
- ALL CONDUITS SHALL BE SCHEDULE 80 PVC WHEN INSTALLED BY TRENCHING/ OPEN CUT AND HDPE SDR-13.5 WHEN INSTALLED BY BORING, UNLESS OTHERWISE NOTED.
- JUNCTION WELLS, CABINET BASES, AND POLE BASES ARE TO BE REMOVED IN ACCORDANCE WITH SECTION 211 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
- ALL PROPOSED SIGNAL POLES SHALL BE DELDOT MAST ARMS.

NOTES:

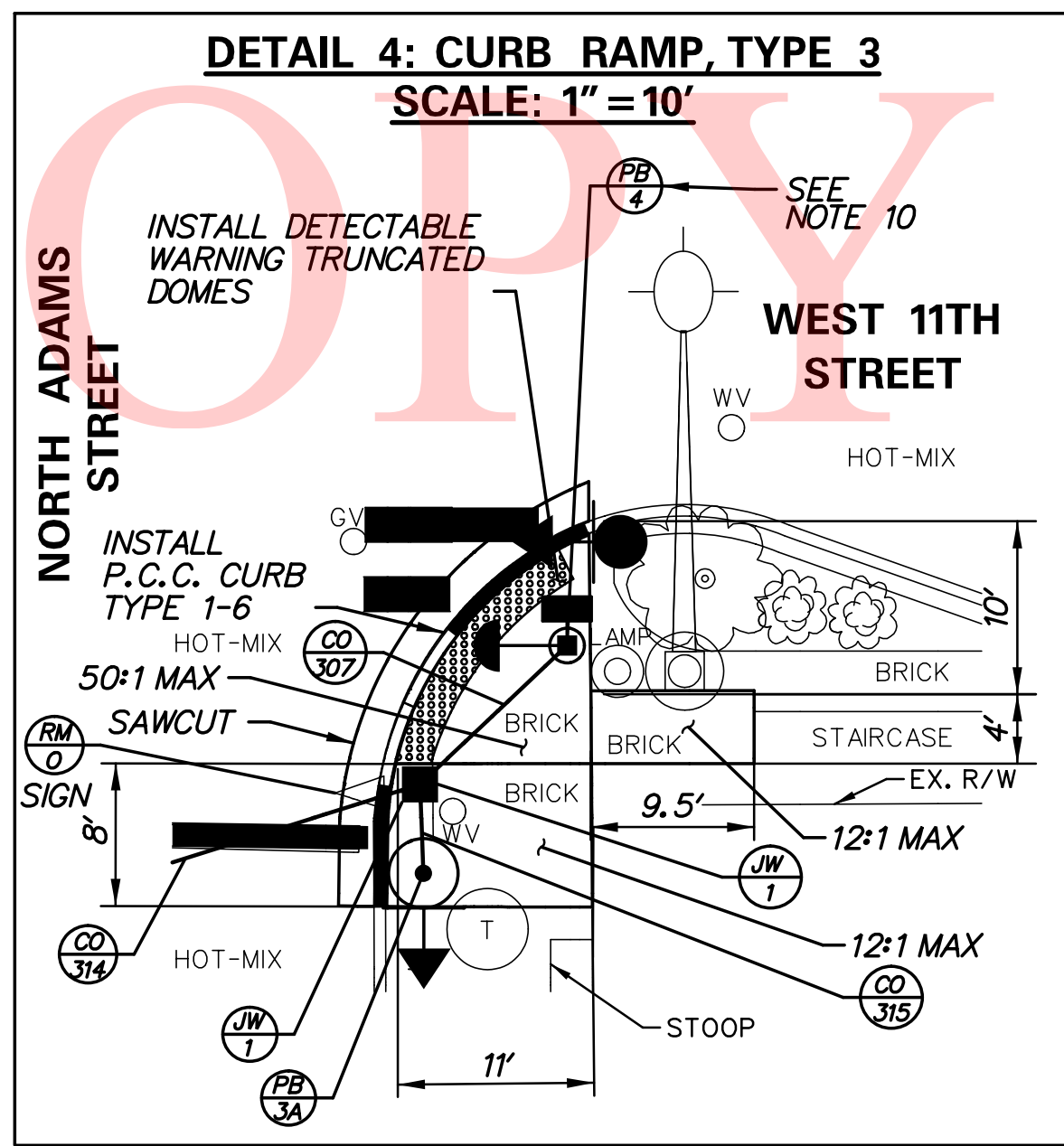
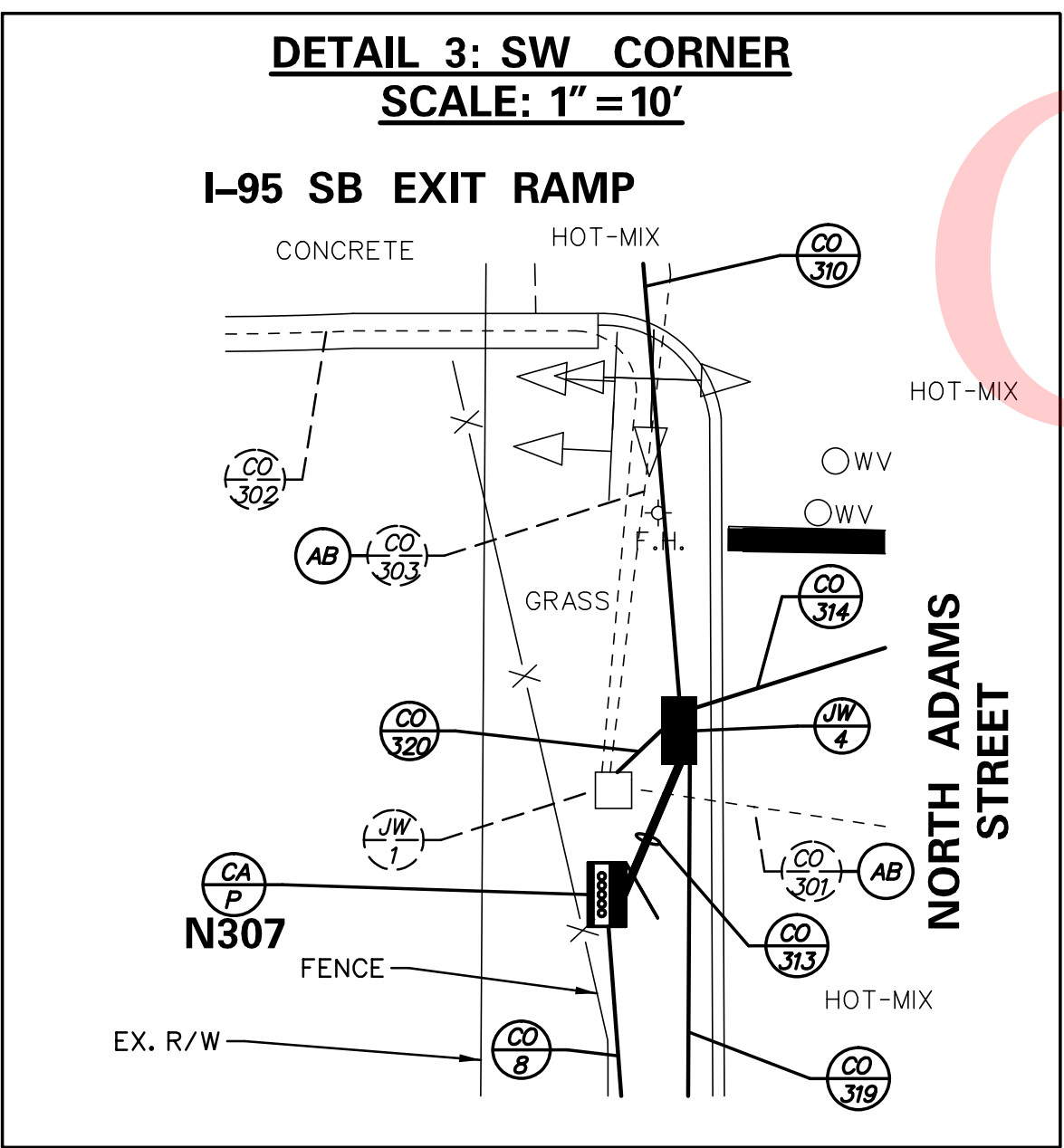
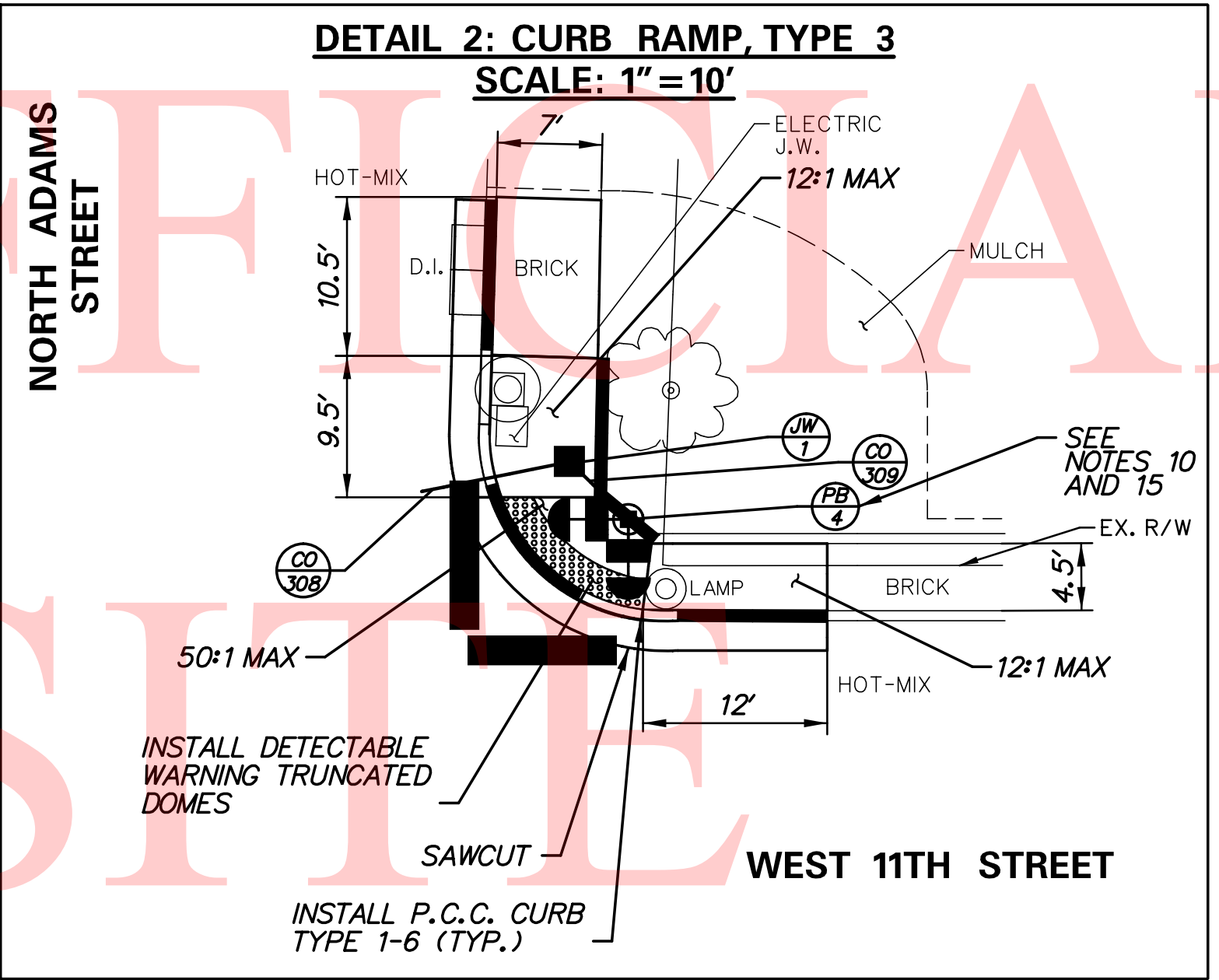
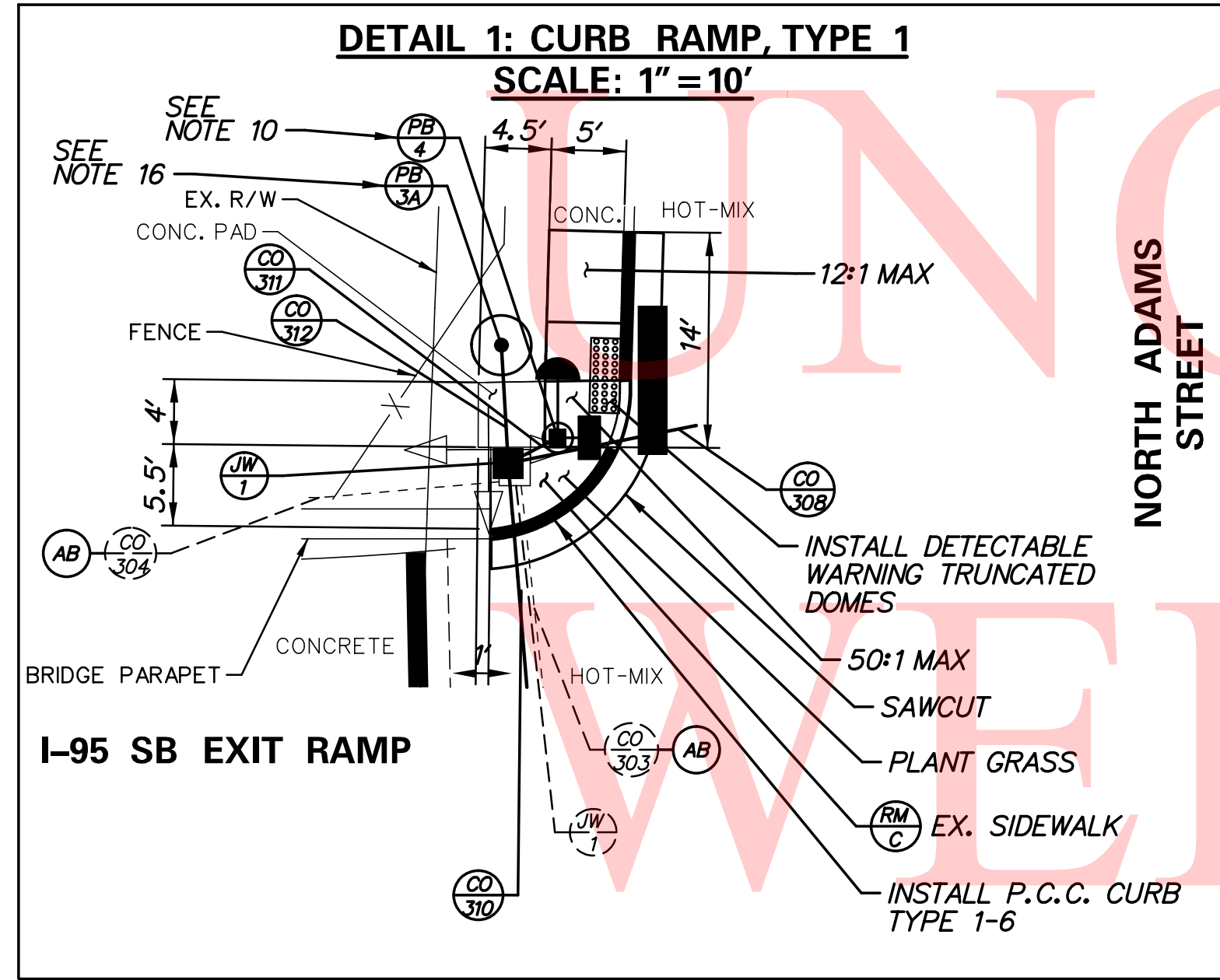
- THE TRAFFIC CONTRACTOR SHALL REMOVE THE EXISTING SIGNAL HEADS, SIGNAL CABLES, SPAN WIRES, AND CABINET AND INSTALL THE PROPOSED CABINET POLE BASES, MAST ARMS, SIGNAL HEADS, AND OVERHEAD SIGNS, AS SHOWN.
- THE CITY OF WILMINGTON SHALL MODIFY THE SIGNAL PHASING, AS SHOWN.
- PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHOULD BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50:1 FLATTER) LANDING AREA OF THE CURB RAMP. THESE POLE BASES SHOULD BE FLUSH WITH THE ADJOINING LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES FROM THE LANDING AREA AND SHOULD BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE DOES NOT EXCEED 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSHBUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE SIDEWALK LEVEL.
- ALL PEDESTRIAN SIGNALS SHALL CONTAIN PEDESTRIAN COUNTDOWN DISPLAYS.
NW = R10-36L (LEFT ARROW); NE = R10-36-DE (NO ARROW); SE = R10-36L (LEFT ARROW)
- ALL WORK PERFORMED UNDER THIS PROJECT IS INTENDED TO OCCUR WITHIN DELDOT'S EXISTING RIGHT-OF-WAY BASED ON THE NEW CASTLE COUNTY TAX PARCEL MAP.
- THE TRAFFIC CONTRACTOR SHALL INSTALL BACKPLATES ON ALL PROPOSED SIGNAL HEADS.
- THE TRAFFIC CONTRACTOR SHALL ADJUST THE SIGNAL HEADS IN THE MAST ARM BRACKETS SO THAT THE BOTTOM OF THE SIGNAL HOUSINGS ARE AT LEAST 16'-0" ABOVE THE PAVEMENT.
- THE CONTRACTOR SHALL INSTALL P.C.C. CURB, TYPE 1-8 AS ONE MONOLITHIC PIECE, INTEGRATING THE POLE BASE, TYPE 4.
- THE CONTRACTOR SHALL INSTALL A 1' POLE BASE EXTENSION, WITH THE POLE BASE EXTENDING 12' BELOW GRADE.
- ALL STONE CURB REMOVED DURING CONSTRUCTION SHALL BE RETURNED TO THE CITY OF WILMINGTON.



LEGEND

EXISTING SYMBOL	PROPOSED SYMBOL	DESCRIPTION
(AB)	(AB)	ABANDON
(CA)	(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
(CB)	(CB)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
(CO)	(CO)	EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)
(CP)	(CP)	PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)
(JW)	(JW)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
(JP)	(JP)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
(MA)	(MA)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
(MX)	(MX)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
(OH)	(OH)	EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(OP)	(OP)	PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(PB)	(PB)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(PP)	(PP)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(PL)	(PL)	EXISTING POLE IDENTIFIER (* OF POLE)
(PP)	(PP)	PROPOSED POLE IDENTIFIER (* OF POLE)
(RM)	(RM)	REMOVE BY CONTRACTOR
(RO)	(RO)	REMOVE BY OTHERS
(RT)	(RT)	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1	□	□
LOOP DETECTOR, TYPE 2	□	□
LUMINAIRE	⊙	⊙
MAST ARM	↗	↗
MICROWAVE DETECTION	⊙	⊙
OPTICOM RECEIVER	○	○
OVERHEAD SIGNING	⊥	⊥
PEDESTRIAN POLE/BASE	⊙	⊙
PEDESTRIAN PUSHBUTTON	→	→
PEDESTRIAN SIGNAL HEAD	⊥	⊥
RIGHT-OF-WAY	---	R/W
SERVICE PEDESTAL	□	□
SIGNAL CABINET	⊥	⊥
SIGNAL HEAD	→	→
SIGNAL POLE/BASE	⊙	⊙
CCTV CAMERA	⊙	⊙
SPAN WIRE	XX	XX
UTILITY POLE	⊙	⊙
VIDEO DETECTION (FISHEYE)	⊙	⊙



CONDUIT RUN SCHEDULE

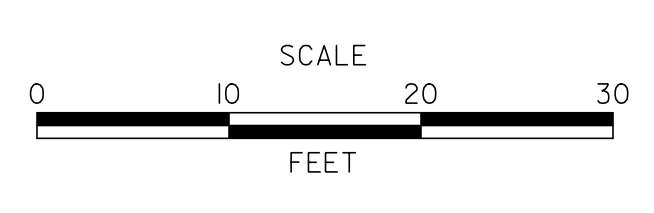
CO*	* OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
B	1	2.5 IN	217 FT	T	[NEW (1) FIBER]
300*	1	1.5 IN	2 FT	-	<REMOVE EX. (1) 2/*8 U.F. W/GROUND, EX. (1) COMM. CABLE, EX. (1) 16/*14, EX. (2) 4/*18, EX. (1) COMM CABLE - (INACTIVE)>
301*	1	1.5 IN	39 FT	-	<REMOVE EX. (1) 9/*14, EX. (3) 4/*18, EX. (1) "MK" CABLE>
302*	1	1.5 IN	318 FT	-	[NEW (1) 4/*14, (1) *6 GROUND] <REMOVE EX. (1) 9/*14, EX. (1) 4/*18>
303*	1	1.5 IN	61 FT	-	<REMOVE EX. (1) "MK" CABLE>
304*	1	1.5 IN	35 FT	-	<REMOVE EX. (1) "MK" CABLE>
305*	1	1.5 IN	9 FT	-	[NEW (1) 4/*14, (1) *6 GROUND] <REMOVE EX. (1) 9/*14>
306*	1	1.5 IN	89 FT	-	<REMOVE EX. (1) 4/*18>
307	1	2.5 IN	12 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]
308	1	4.0 IN	50 FT	B	[NEW (2) 5/*14, (1) *6 GROUND]
309	1	2.5 IN	6 FT	T	[NEW (2) 5/*14, (1) *6 GROUND]
310	1	4.0 IN	58 FT	B	[NEW (1) 9/*14, (3) 5/*14, (1) 4/*18, (1) *6 GROUND]
311	1	2.5 IN	4 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]
312	1	3.0 IN	9 FT	T	[NEW (1) 9/*14, (1) 4/*18, (1) *6 GROUND]
313	3	4.0 IN	9 FT	T	[NEW (1) CAT 5e CABLE, (2) 9/*14, (4) 5/*14, (1) 4/*14, (2) 4/*18, (1) FIBER, (3) *6 GROUND]
314	1	4.0 IN	41 FT	B	[NEW (1) CAT 5e CABLE, (1) 9/*14, (1) 5/*14, (1) 4/*18, (1) *6 GROUND]
315	1	3.0 IN	5 FT	T	[NEW (1) CAT 5e CABLE, (1) 9/*14, (1) 4/*18, (1) *6 GROUND]
316**	1	2.0 IN	2 FT	O	[NEW (1) 2/*8 U.F. W/GROUND - LINE SIDE]
317	1	2.0 IN	29 FT	B	[NEW (1) 2/*8 U.F. W/GROUND - LINE SIDE]
318**	1	2.0 IN	5 FT	T	[NEW (1) 2/*8 U.F. W/GROUND - LINE SIDE]
319**	1	2.0 IN	128 FT	T	[NEW (1) 2/*8 U.F. W/GROUND - LOAD SIDE]
320	1	4.0 IN	4 FT	T	[NEW (1) 4/*14, (1) *6 GROUND]

* DENOTES EXISTING CONDUIT
** PROPOSED RIGID GALVANIZED STEEL CONDUIT
B = BORE, T = TRENCH, O = OPEN CUT

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ADDENDA / REVISIONS

NO.	DESCRIPTION
1	SIGNAL RE-BUILD - INSTALLED MAST ARMS AND VIDEO DETECTION. S.C.H. (WRA) 01-2019 (CONTRACT T201906105)



**PAVEMENT & REHABILITATION,
NORTH V
(2015 HEP, SITE A)**

CONTRACT	T201906105	PERMIT NO.	N307	SECTION	WRA
COUNTY	NEW CASTLE	DESIGNED BY:	S.C.H. (WRA)	SIGNAL PLAN	NORTH ADAMS STREET @ WEST 11TH STREET/ I-95 SB EXIT RAMP
		CHECKED BY:	M.J.B. (WRA)	SHEET NO.	10



PREPARED BY

WRA Whitman, Reardon and Associates, LLP
Engineers - Architects - Environmental Planners Est. 1915

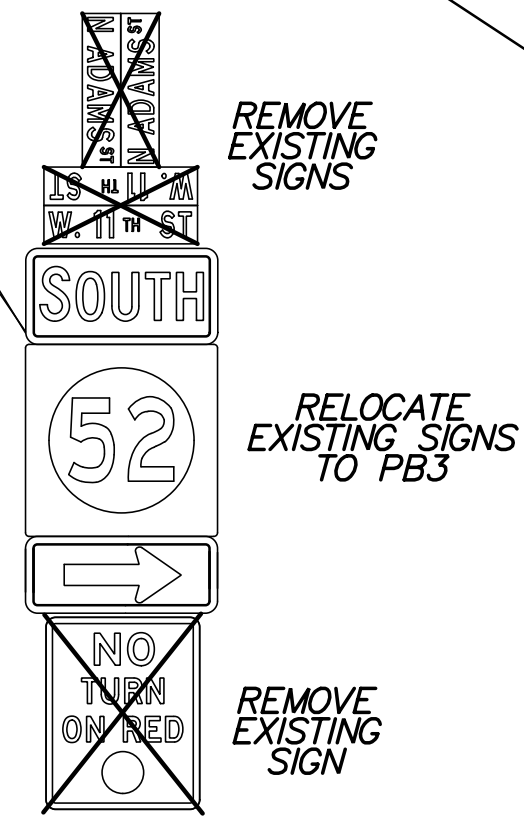
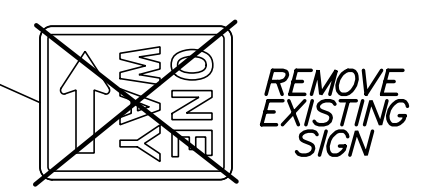
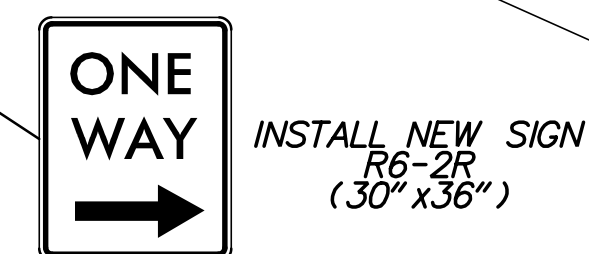
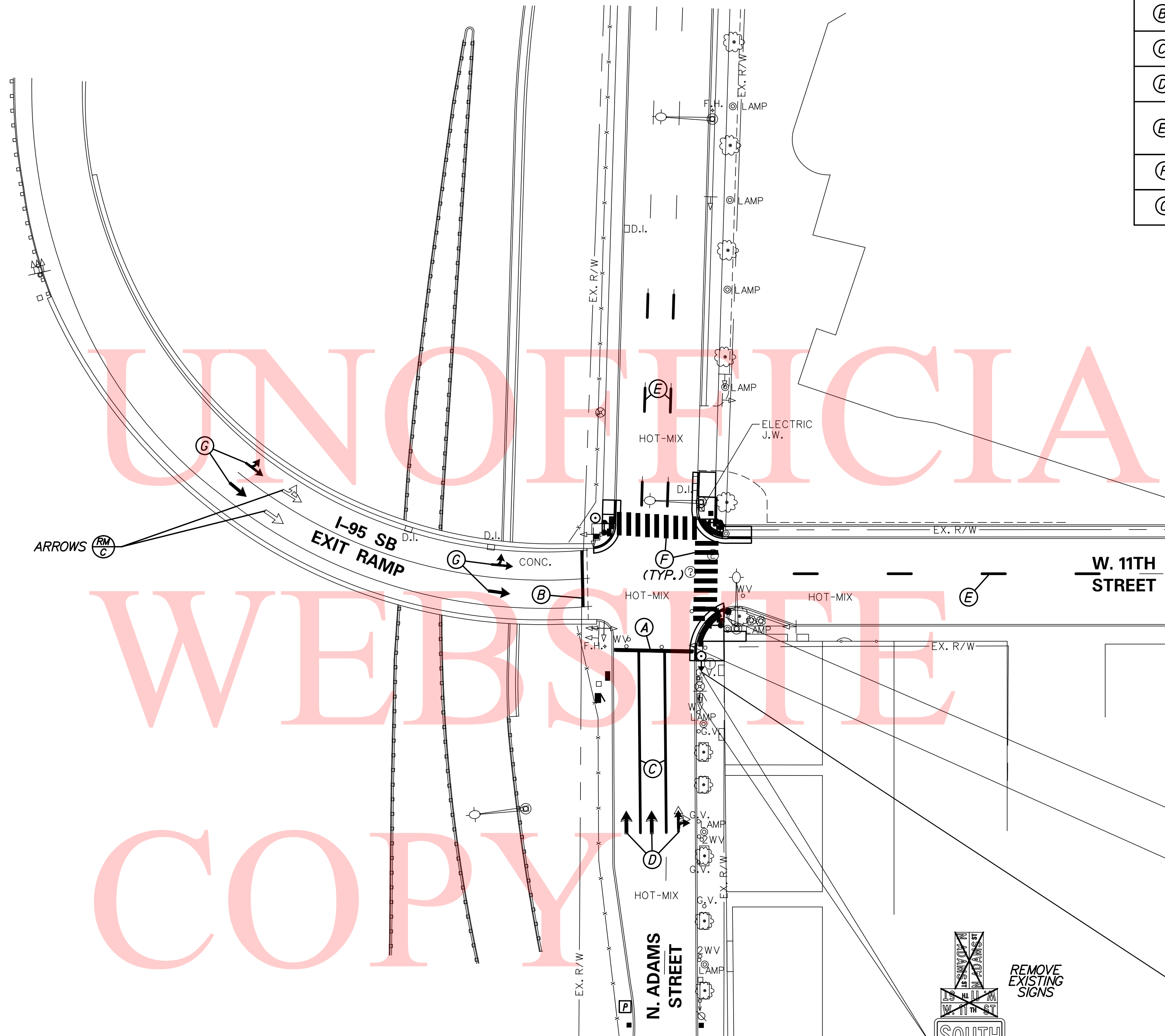
1/17/19
DATE

APPROVED FOR INSTALLATION

M.J.B. 1/17/19
CHIEF TRAFFIC ENGINEER DATE

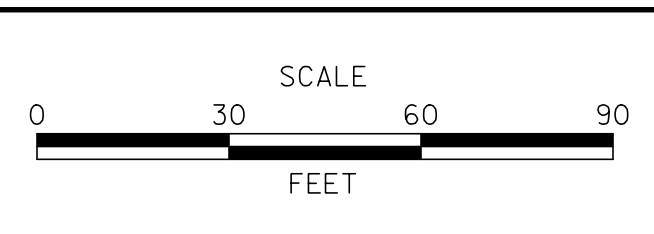
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	PERMANENT PAVEMENT STRIPING, SYMBOL, ALKYD-THERMOPLASTIC, WHITE, 16" (ITEM 817002)	46 SF
(B)	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL (TAPE), WHITE, 16" (ITEM 817012)	32 SF
(C)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 5" (ITEM 817013)	154 LF
(D)	PERMANENT PAVEMENT STRIPING, SYMBOL, ALKYD-THERMOPLASTIC (ITEM 817002)	52 SF
(E)	10' LINE / 30' GAP BROKEN PATTERN, PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 5" (ITEM 817013)	100 LF
(F)	PERMANENT PAVEMENT STRIPING, SYMBOL, ALKYD-THERMOPLASTIC, 2' x 10' (ITEM 817002)	350 SF
(G)	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL (TAPE) (ITEM 817012)	71 SF

*QUANTITY REPRESENTS THE TOTAL AMOUNT OF MATERIAL USED



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ADDENDA / REVISIONS



PAVEMENT & REHABILITATION,
NORTH V
(2015 HEP, SITE A)

CONTRACT T201906105	PERMIT NO. N307
COUNTY NEW CASTLE	DESIGNED BY: S.C.H. (WRA)
	CHECKED BY: M.J.B. (WRA)

SIGNING & STRIPING PLAN
NORTH ADAMS STREET
@ WEST 11TH STREET/
I-95 SB EXIT RAMP

SECTION WRA
SHEET NO. 11