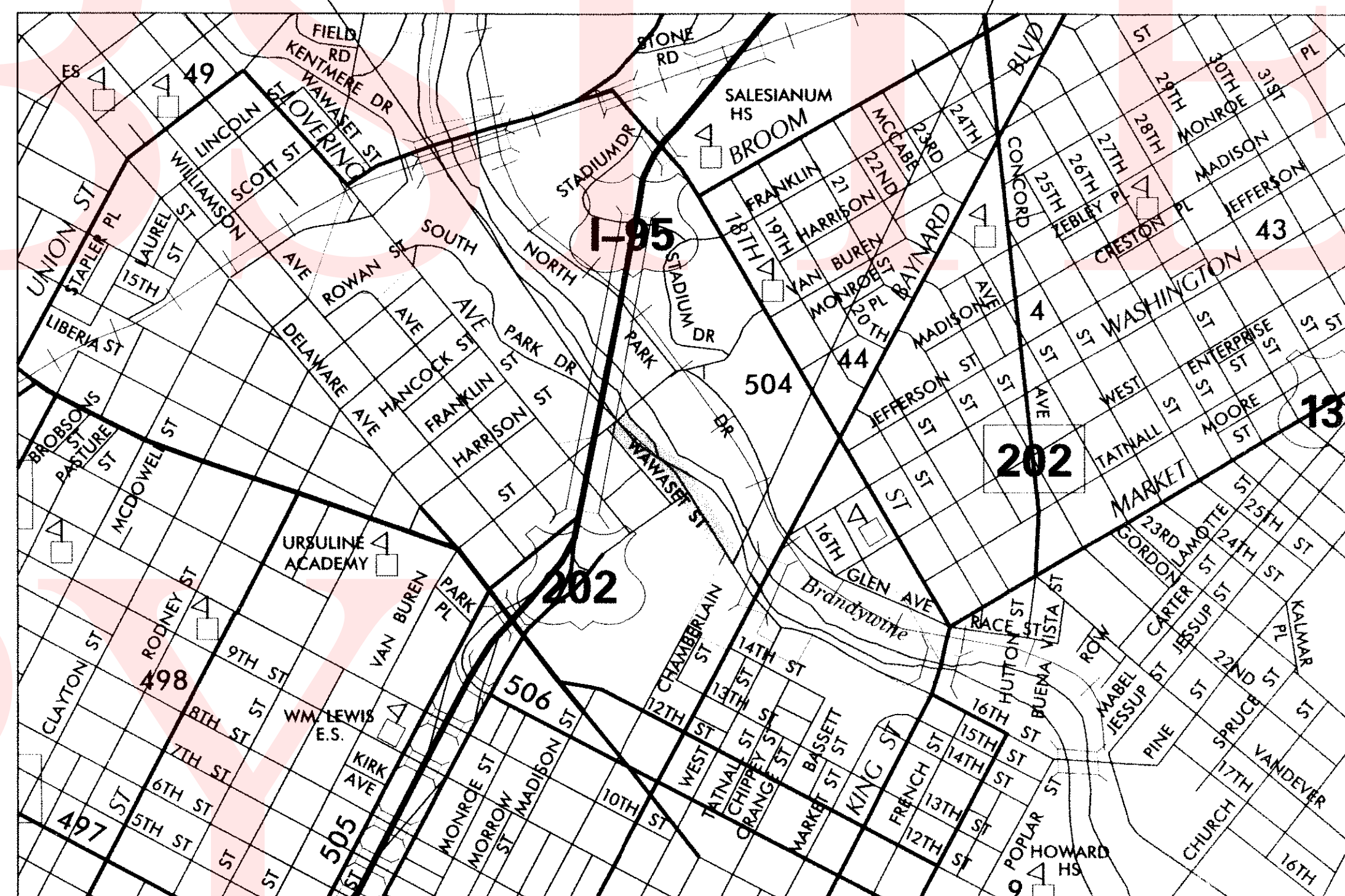


CONTRACT NUMBER: T201020005
FEDERAL AID PROJECT NUMBER: ETEA-2010(9)

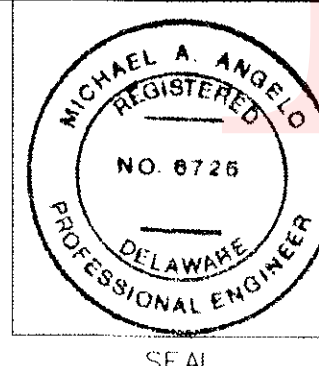
COUNTY: NEW CASTLE M.R. #: N/A

BEGIN
CONTRACT T201020005
STATION 10+00

END
CONTRACT T201020005
STATION 22+50



PREPARED BY
THE CONSULTING FIRM OF
McCormick
Engineers & Planners
Since 1946 **Taylor**



RECOMMENDED *Michael R. Gels* 3/27/12
DATE

RECOMMENDED

Kar C 3/29/12

CITY OF WILMINGTON DATE

RECOMMENDED

Paul L. Paul 3/29/12
SQUAD MANAGER, CONSTRUCTION DATE

John Doe 4/1/12
GROUP ENGINEER, CONSTRUCTION DATE

ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS (CONSTRUCTION) DAT

~~RECOMMENDED~~

STORMWATER ENGINEER

DATE 11/11/11

~~RECOMMENDED~~

~~SQUAD MANAGER, TRANSPORTATION SOLUTIONS
(PROJECT DEVELOPMENT OR BRIDGE DESIGN)~~

DATE _____

~~RECOMMENDED~~

BRIDGE DESIGN ENGINEER

DATE

RECOMMENDED

PLANNING SUPERVISOR PLANNING

DATE **4-9-12**

RECOMMENDED

ASSISTANT DIRECTOR,
ENGINEERING SUPPORT

DATE 4/10/12

SEAL

APPROVED

CHIEF ENGINEER

DATE 4/11/12

SEAL

DESIGN DESIGNATION

FUNCTIONAL CLASS: LOCAL		D.H.V. PROJECTED:		YEAR
TYPE OF CONSTRUCTION: ENHANCEMENT		DESIGN SPEED: M.P.H.		
A.A.D.T. CURRENT:	YEAR:	TRUCKS:	%	
A.A.D.T. PROJECTED:	YEAR:	DIRECTION OF DISTRIBUTION:	%	

INDEX OF SHEETS

SHEET N ^o	TABLE OF CONTENTS
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10-11	CONSTRUCTION DETAILS
12-13	CONSTRUCTION PHASING, MOT AND EROSION CONTROL PLANS
14	DETOUR PLAN
15-16	SIGNING, STRIPING AND CONDUIT PLANS

TOTAL SHEETS: 16

APPROVED DESIGN EXCEPTIONS

DESIGN	PARAMETER	REQUIRED	PROVIDED	DATE
1	DESIGNER'S NAME	JOHN DOE	JOHN DOE	2023-10-27
2	PROJECT NAME	BRIDGE REPAIR PROJECT	BRIDGE REPAIR PROJECT	2023-10-27
3	LOCATION	123 MAIN ST, NEW YORK, NY	123 MAIN ST, NEW YORK, NY	2023-10-27
4	CLIENT	ABC CORPORATION	ABC CORPORATION	2023-10-27
5	DESIGNER'S SIGNATURE	[Signature]	[Signature]	2023-10-27
6	DATE	2023-10-27	2023-10-27	2023-10-27
7	REVISIONS	1.0	1.0	2023-10-27
8	APPROVED BY	JOHN DOE	JOHN DOE	2023-10-27
9	DESIGNER'S CONTACT	123 MAIN ST, NEW YORK, NY 10001	123 MAIN ST, NEW YORK, NY 10001	2023-10-27
10	PROJECT ID	BRIDGE-2023-001	BRIDGE-2023-001	2023-10-27
11	DESIGNER'S PHONE	(123) 456-7890	(123) 456-7890	2023-10-27
12	DESIGNER'S EMAIL	john.doe@abc.com	john.doe@abc.com	2023-10-27
13	DESIGNER'S ADDRESS	123 MAIN ST, NEW YORK, NY 10001	123 MAIN ST, NEW YORK, NY 10001	2023-10-27
14	DESIGNER'S STATE	NY	NY	2023-10-27
15	DESIGNER'S ZIP	10001	10001	2023-10-27

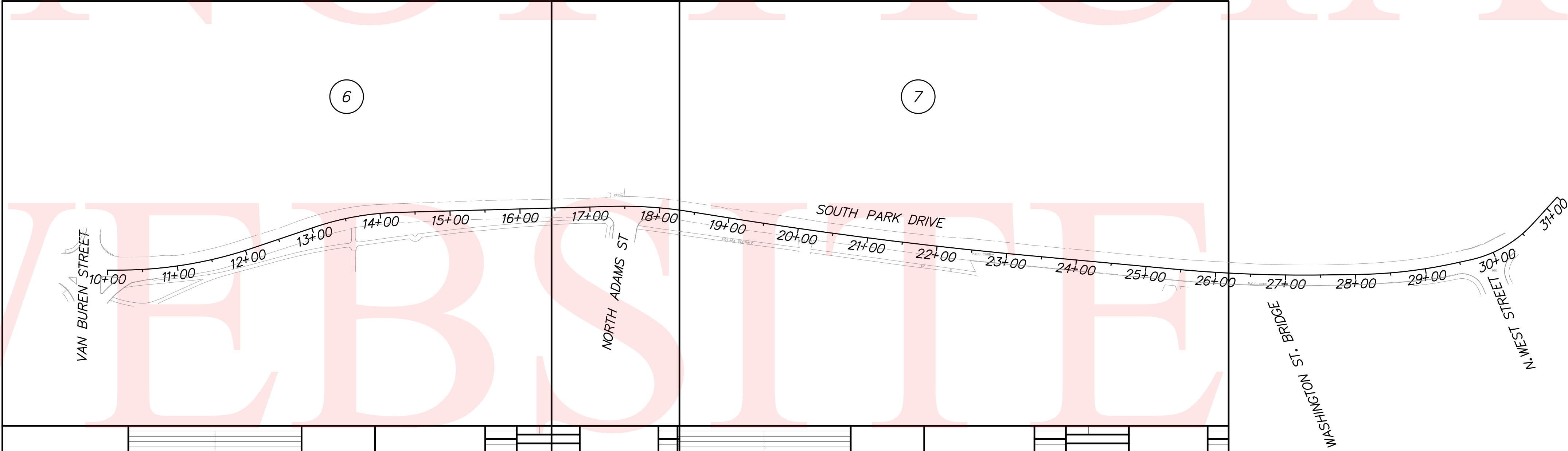
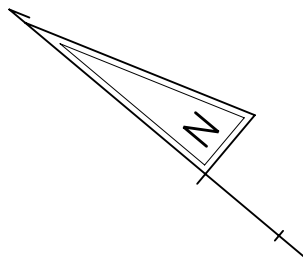
ADDENDA & REVISIONS

[illegible]

ASSOCIATED CONTRACTS

[illegible][illegible]

PLAN SHEET INDEX CROSS REFERENCE		
CONSTRUCTION AND LIGHTING PLAN	6	7
GRADES AND GEOMETRICS	8	9
CONSTRUCTION PHASING, M.O.T. AND E&S	13	13
SIGNING, STRIPING AND CONDUIT PLAN	15	16

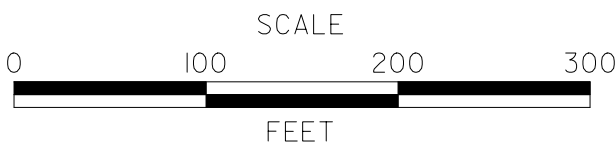


3/27/2012
...\\Final Plan\\IS01_Southpark.dgn



DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



SOUTH PARK DRIVE
LIGHTING IMPROVEMENTS,
CITY OF WILMINGTON

CONTRACT
T201020005
COUNTY
NEW CASTLE

BRIDGE NO.	N/A
DESIGNED BY:	LB
CHECKED BY:	JMH

PLAN SHEET INDEX

IS-01

SHEET NO.
2
TOTAL SHTS.
16



ADDENDUMS / REVISIONS

NOT TO SCALE

SOUTH PARK DRIVE
LIGHTING IMPROVEMENTS,
CITY OF WILMINGTON

CONTRACT
T201020005
COUNTY
NEW CASTLE

BRIDGE NO.	N/A
DESIGNED BY:	LB
CHECKED BY:	JMH

LEGEND

LG-01

SHEET NO.
3
TOTAL SHTS.
16

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 VENT OR CLEANOUT
	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-SEWER
	CITY OF WILMINGTON-WATER
	DELMARVA POWER-GAS
	DELMARVA POWER-ELECTRIC
	COMCAST
	CAVALIER TELEPHONE
	ABOVENET COMMUNICATIONS
	MCI TELECOMMUNICATIONS

PROPOSED SYMBOLS

IDENTIFIERS	
	ADJUST BY CONTRACTOR
	ADJUST BY OTHERS
	CONCRETE SAFETY BARRIER
	CURB OR CURB & GUTTER
	CONVERT TO JUNCTION BOX
	CONVERT TO DRAINAGE MANHOLE
	CURB OPENING
	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
	REMOVE BY 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

CONSTRUCTION	
	CONCRETE SAFETY BARRIER - PERMANENT
	BIOFILTRATION SWALE
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	BRICK PATTERNED SURFACE
	BUTT JOINT
	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
	CLEAR ZONE
	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
	HORIZONTAL CLEARANCE
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
	LIMIT OF CONSTRUCTION
	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK @ 4"
	P.C.C. SIDEWALK @ 6"
	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
	TEMPORARY CONSTRUCTION EASEMENT
	PROPOSED RIGHT-OF-WAY BASELINE

GENERAL NOTES

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION “STANDARD SPECIFICATIONS”, DATED AUGUST 2001 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION “STANDARD CONSTRUCTION DETAILS”, DATED 2001, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.
2. THE CONTRACTOR SHALL GIVE TWO (2) WEEKS NOTICE TO THE PROPERTY OWNER WHEN ANY FIXTURE, SHRUB OR OTHER OBJECT MUST BE REMOVED FROM THE RIGHT OF WAY OR EASEMENT AREA. IF THE OWNER HAS NOT ATTEMPTED TO SALVAGE THIS PROPERTY, THE CONTRACTOR SHALL REMOVE IT WITHOUT OBLIGATION. COMPENSATION SHALL BE INCIDENTAL TO THE CONTRACT.
3. THE ENDS OF ALL CURBS SHALL BE DEPRESSED FLUSH WITH THE PAVEMENT AT A RATIO OF TWELVE TO ONE (12:1) UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR SHALL PROVIDE AND INSTALL PVC SLEEVES (4” INSIDE MINIMUM DIAMETER, 6” INSIDE MAXIMUM DIAMETER) IN PROPOSED CONCRETE SIDEWALKS, ISLANDS, AND MEDIANS FOR FUTURE TRAFFIC SIGN POSTS AS DIRECTED BY THE ENGINEER. THE LOWER END OF THE SLEEVE SHALL SIT ON THE TOP OF THE SUBBASE MATERIAL. THE COST SHALL BE INCIDENTAL TO THE CONTRACT.
5. STAGING AREAS - PROPER EROSION AND SEDIMENT CONTROL MEASURES AS DETERMINED BY THE ENGINEER SHALL BE INSTALLED IN ALL STAGING AREAS. ALL AREAS USED BY THE CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE CONTRACT. IF THE STAGING AREA IS PAVED, IT SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF THE AREA IS UNPAVED, IT SHALL BE RE-GRADED, TOPSOILED, SEEDED AND MULCHED IN ACCORDANCE WITH DELAWARE STANDARD SPECIFICATIONS 732, 734 AND 735, FOR TOPSOIL, SEED AND MULCH RESPECTIVELY, TO THE SATISFACTION OF THE ENGINEER. THE SEED SHALL ADHERE TO THE SPECIFICATIONS OF SECTION 734 FOR PERMANENT GRASS SEEDING - DRY GROUND. ALL COSTS ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH REESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE.
6. SITE REVIEWER - AN EROSION CONTROL SITE REVIEWER SHALL BE A PERSON FROM THE CONTRACTOR'S STAFF ASSIGNED TO EROSION AND SEDIMENT CONTROL IMPLEMENTATION AND MAINTENANCE AND SHALL BE REQUIRED ON SPECIFIC PROJECTS. THE NAME AND DNREC CERTIFICATION NUMBER OF EACH SITE REVIEWER SO REQUIRED SHALL BE SUBMITTED TO THE DEPARTMENT AT THE TIME OF BID. THE NAME OF THE DELAWARE REGISTERED PROFESSIONAL ENGINEER PROVIDING DIRECTION AND SUPERVISION OF THE SITE REVIEWER, AS REQUIRED IN SECTION 12.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, SHALL ALSO BE SUBMITTED TO THE DEPARTMENT AT THE TIME OF BID. THE SITE REVIEWER REQUIREMENTS IN EFFECT ON THIS PROJECT SHALL BE MARKED WITH AN “X” BELOW:

EROSION POTENTIAL FOR THIS PROJECT	SITE REVIEWER REQUIREMENT
(X) INSIGNIFICANT	NONE
() MINOR	CONTRACTOR CERTIFICATION COURSE TRAINING ONLY, AS DEFINED IN SECTION 13 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
() MEDIUM	AT THE TIME OF BID OF THE CONTRACT, EITHER THE SUPERINTENDENT OR A SEPARATE INDIVIDUAL FROM THE CONTRACTOR'S STAFF SHALL BE A CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 12 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
() MAJOR	SUPERINTENDENT AND AN INDIVIDUAL FROM CONTRACTOR'S STAFF SHALL BE CCR. ONE INDIVIDUAL FROM THE CONTRACTOR'S STAFF MUST BE A CCR AT THE TIME OF BID OF THE CONTRACT. THE SUPERINTENDENT MUST BECOME A CCR WITHIN ONE YEAR AFTER THE AWARD OF CONTRACT.

7. ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR INCLUDE:

(X)	NONE
()	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
()	RASTER FILES, IN .CAL FILE FORMAT, FOR ALL PLAN SHEETS.
()	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.

8. AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

(X)	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
()	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.
()	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.

9. THE DISTURBED AREA FOR THIS PROJECT IS 0.20 ACRES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO THE CONSTRUCTION SITE POLLUTION PREVENTION SPECIFICATIONS AS DETAILED IN SECTION 3.6 OF THE “DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK”. ALL COSTS ASSOCIATED WITH ADHERING TO THE STANDARDS SHALL BE INCIDENTAL TO THE OVERALL CONTRACT COSTS.
11. THE EROSION AND SEDIMENT CONTROL PLANS HAVE BEEN APPROVED BY DELDOT’S STORMWATER ENGINEER UNDER DELDOT’S DELEGATED AUTHORITY. THE EROSION AND SEDIMENT CONTROL PLANS ARE VALID FOR A THREE YEAR PERIOD, BEGINNING ON THE DATE THE STORMWATER ENGINEER SIGNED THE CONSTRUCTION TITLE SHEET. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE THREE YEARS, THE CONTRACTOR SHALL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE EROSION AND SEDIMENT CONTROL PLAN APPROVAL. DELDOT WILL REVIEW THE CURRENT EROSION AND SEDIMENT CONTROL PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.

PROJECT NOTES

SECTION 100

1. 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.
2. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL, AS PART OF HIS PROJECT SCHEDULE, SUBMIT TO THE ENGINEER AN ESTIMATE OF THE MONTHLY PAYMENTS EXPECTED TO BE RECEIVED ON THE CONTRACT. THIS WILL BE REFERENCED AS THE “MONTHLY PAYMENT CHART”.

A CHART IN MICROSOFT EXCEL, MICROSOFT WORD, OR HAND WRITTEN FORMAT WILL BE ACCEPTABLE FOR THIS PURPOSE. THE CHART SHOULD INCLUDE, AS A MINIMUM, COLUMNS FOR THE MONTH, YEAR AND ESTIMATED MONTHLY PAYMENTS. THE TOTAL OF ALL ESTIMATED MONTHLY PAYMENTS SHOULD EQUAL THE AWARDED CONTRACT TOTAL BID PRICE.

THE ENGINEER MAY REQUEST AN UPDATED “MONTHLY PAYMENT CHART” AT HIS DISCRETION, DEPENDING ON THE ACCURACY OF THE INITIAL ESTIMATES AND ACCORDING TO THE OVERALL NEEDS OF THE DEPARTMENT.

THE “MONTHLY PAYMENT CHART” WILL NOT BE CONSIDERED A BINDING DOCUMENT BY EITHER THE CONTRACTOR OR THE DEPARTMENT AND IS CONSIDERED SOLELY INFORMATIONAL.

ON PROJECTS REQUIRING CPM SCHEDULES, THE CONTRACTOR MAY, BUT IS NOT REQUIRED TO, “COST LOAD” THE CPM SCHEDULE IN ORDER TO GENERATE THE MONTHLY SPEND PAYMENT CHART.

COSTS TO PREPARE AND/OR UPDATE THE “MONTHLY PAYMENT CHART” ARE ADDRESSED AS FOLLOWS:
A. ON CONTRACTS REQUIRING CPM SCHEDULES AND UPDATES, PREPARATION OF THE INITIAL CHART SHALL BE INCIDENTAL TO ITEM 763508. UPDATES SHALL BE INCIDENTAL TO ITEM 763509.

B. ON CONTRACTS NOT REQUIRING CPM SCHEDULES, THE COST TO PREPARE AND UPDATE THE “MONTHLY PAYMENT CHART” SHALL BE INCLUDED IN ITEM 763000 - INITIAL EXPENSE.

3. UNLESS OTHERWISE NOTED ON THE PLANS, EXISTING FEATURES (I.E. STEPS, FENCES, RAILINGS, BILCO DOORS, WINDOW WELLS, ETC.) SHALL NOT BE DISTURBED. IF THE EXISTING FEATURES ARE DISTURBED BY THE CONTRACTOR AT THE DISCRETION OF THE ENGINEER THEY SHALL BE RESTORED TO THE ORIGINAL CONDITION OR REPLACED AT THE CONTRACTOR'S EXPENSE.

SECTION 200

4. IN AREAS WHERE TREES OR SHRUBS WILL BE OVERHANGING THE PROPOSED SIDEWALK, PRUNING MAY BE NECESSARY TO ACHIEVE A VERTICAL CLEAR SPACE OF 10 FEET ABOVE THE PROPOSED SIDEWALK ELEVATION. THE CONTRACTOR SHALL PRUNE EXISTING TREE AND SHRUB BRANCHES, WHICH OVERHANG THE SIDEWALK, IN ACCORDANCE WITH I.S.A. STANDARDS. THE CONTRACTOR SHALL NOTIFY DELDOT'S ROADSIDE ENVIRONMENTALIST ADMINISTRATOR, EUGENE ‘CHIP’ ROSAN, JR. AT (302) 760-2185 AND/OR HIS DESIGNER AND THE CITY OF WILMINGTON'S URBAN FOREST ADMINISTRATOR AMANDA TOLINO, AT (302) 576-2582, AT LEAST TWO (2) DAYS PRIOR TO THE PRUNING OPERATION. ALL COSTS ASSOCIATED WITH THE ABOVE WORK TO BE PAID UNDER ITEM 201000 - CLEARING AND GRUBBING.

5. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO EXCAVATE TEST PITS ALONG PROPOSED DRAINAGE RUNS, AT POINTS OF POSSIBLE UTILITY CONFLICTS, TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR, WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED. THE ENGINEER SHALL ULTIMATELY DETERMINE THE SOLUTION TO THE UTILITY CONFLICT. TEST HOLES SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 202000 - EXCAVATION AND EMBANKMENT, BUT ONLY TO THE ACTUAL DEPTH EXCAVATED.

6. 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 TEAM SUPPORT 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.

SECTION 600

7. THE DEPARTMENT AND THE CONTRACTOR SHALL INSPECT ALL EXISTING PIPES AND DRAINAGE STRUCTURES TO BE USED IN THE FINAL DRAINAGE SYSTEM AND AGREE ON THE CONDITION PRIOR TO THE START OF CONSTRUCTION. EXISTING PIPES AND DRAINAGE STRUCTURES DAMAGED DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS REQUIRED TO VIDEO INSPECT NEW PIPE RUNS TO CONFIRM CONDITION PRIOR TO ACCEPTANCE. PAYMENT FOR VIDEO INSPECTION OF NEW PIPES WILL BE MADE UNDER ITEM 612529 - VIDEO INSPECTION.

SECTION 700

8. 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.

9. 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 762002 - SAWCUTTING, CONCRETE, FULL DEPTH.

10. 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.

11. FOR SIDEWALK CONSTRUCTION, NO BARE SOIL SHALL BE PERMITTED TO SHOW AT THE END OF THE WORK DAY. ALL BARE SOIL SHALL BE COVERED WITH GABC OR A METHOD APPROVED BY THE ENGINEER.

12. ALL HOT-MIX SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

MISCELLANEOUS

13. THE CONTRACTOR SHALL CONTACT MICHAEL ELLER, THE CHIEF OF SCHEDULING FOR DART FIRST STATE, 14 DAYS PRIOR TO THE START OF CONSTRUCTION AT 302-576-6061.

14. PRIOR TO THE CONSTRUCTION OF THE PROJECT AND WITHIN 20 DAYS OF EXECUTION OF THE CONTRACT,A VIDEO SHALL BE TAKEN OF THE SITE BY THE CONTRACTOR AND A COPY GIVEN TO THE DELDOT PROJECT ENGINEER. THE VIDEO SHALL CLEARLY SHOW THE PRE-CONSTRUCTION CONDITIONS OF THE WORKSITE AND ADJOINING AREAS. THE VIDEO WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF THE VIDEO SHALL BE INCIDENTAL TO ITEM 763501 - CONSTRUCTION ENGINEERING.

15. THE LOCATION OF ALL ABOVE GROUND ITEMS TO BE INSTALLED, SUCH AS LIGHTS, TREES, SIGNS, ETC. SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.

16. ALL BRICK OR CONCRETE SAWCUTTING SHALL BE DONE WITH A WET SAW CUT TO CONTROL DUST.

17. CONTRACTOR MUST CONTACT WILMINGTON STATE PARKS SUPERINTENDENT ANDREW ROY (302-577-7020) PRIOR TO STARTING WORK WITHIN PARK PROPERTY.

18. TRENCH FOR CONDUIT MAY HAVE TO BE HAND EXCAVATED AT STA. 18+80 RT AND STA. 21+25 RT TO AVOID DAMAGE TO EXISTING TREE ROOTS. PAYMENT FOR HAND EXCAVATION SHALL BE INCIDENTAL TO THE CONDUIT ITEM.

19. CONTRACTOR SHALL BE AWARE THAT THE PROJECT IS LOCATED WITHIN AND NEAR THE BRANDYWINE PARK HISTORICAL DISTRICT. RESOURCES THAT ARE ADJACENT TO THE PROJECT, BUT ARE NOT TO BE DISTURBED INCLUDE THE STEPS LEADING TO THE WASHINGTON STREET BRIDGE, THE STONE WALL UNDER THE BRIDGE AND THE PRESIDENT MONUMENT. AS SUCH, NO FURTHER WORK SHOULD BE UNDERTAKEN OTHER THAN THE NECESSARY PLANS AND SCOPE, AS INDICATED. ANY PLAN MODIFICATION SIGNIFICANT IN NATURE OR NEW INFORMATION NOT INITIALLY KNOWN THAT ALTERS PLANS AND DESIGNS WILL BE COORDINATED WITH DELDOT PLANNING (JEFF NIEZGODA 302-760-2178) AND THE ENVIRONMENTAL STUDIES OFFICE (MICHAEL HAHN 302-760-2131). THEY WILL COORDINATE WITH THE DELAWARE STATE HISTORIC PRESERVATION OFFICE (SHPO) AND FEDERAL HIGHWAY ADMINISTRATION (FHWA) OR ANY OTHER INTERESTED PARTY BEFORE ANY ACTION IS IMPLEMENTED. PROPOSED OR NECESSARY MODIFICATIONS AND CHANGES WILL BE REVIEWED TO ENSURE PROPER TREATMENT AND CONSIDERATIONS TO HISTORIC PROPERTIES, PER SHPO, FHWA, THE PROPERTY OWNER(S), THE PROJECT SPONSOR, AND THE CONTRACTOR.

20. THE CONTRACTOR SHALL MARK THEIR NAME IN THE CONCRETE SIDEWALK, EITHER BY STAMPING OR BY INLAYING AN APPROVED METAL PLATE. THE LETTERS SHALL BE ONE AND ONE-QUARTER INCH DEPTH. IF A METAL PLATE IS USED, THE TOP OF THE PLATE SHALL BE FLUSH WITH THE TOP OF THE SIDEWALK. THE CONTRACTOR'S NAME SHALL BE PLACED AT EACH END OF THE FINISHED SIDEWALK UP TO 100 FEET IN LENGTH. BEYOND THE 100 FOOT LENGTH, THE CONTRACTOR'S NAME SHALL BE PLACED AT THE ENDS OF THE FINISHED SIDEWALK AND MID-DISTANT BETWEEN THE ENDS IN ACCORDANCE WITH THE WILMINGTON'S CODE OF ORDINANCE.

21. TO MINIMIZE DAMAGE TO THE PARK LAND AND ADJOINING PROPERTY, A COMPACT EXCAVATOR WITH A FOOT PRINT OF LESS THAN OR EQUAL TO THE WIDTH OF THE SIDEWALK SHALL BE USED.

22. REMOVAL OF DIRT FROM OVER AND IN THE EXISTING CATCH BASINS WILL BE PAID AS INCIDENTAL TO ITEM 710001 (ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET).

23. FOR INFORMATION REGARDING THE RIGHT OF WAY EASEMENTS REFER TO DELDOT’S TOWN AGREEMENT WITH THE CITY OF WILMINGTON.

24. EXTREME CAUTION SHALL BE EXERCISED NOT TO DAMAGE EXISTING TREES AND SHRUBBERY NOT SPECIFIED FOR REMOVAL ON PLAN, WHICH INCLUDES PROTECTING ROOTS, STEMS, BRANCHES AND TRUNK FROM MECHANICAL DAMAGE AND COMPACTION FROM VEHICULAR TRAFFIC AND CONSTRUCTION STORAGE WITHIN THE TREE DRIPLINE.

25. ANY TREE DAMAGES CAUSED DIRECTLY OR INDIRECTLY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL RESTORE RESOURCES WITHIN THE PROJECT BOUNDARIES TO A CONDITION THAT WILL APPEAR TO BE NATURAL OR MATCH THE CONDITIONS EXISTING PRIOR TO THE START OF WORK. PARKS SUPERINTENDENT SHALL DETERMINE IF DAMAGED TREES REQUIRES TREATMENT (I.E. IMPROVE AERATION OF THE ROOT ZONES THROUGH TECHNIQUES SUCH AS VERTICAL MULCHING, CORE AERATION, RADIAL AERATION MULCHING, FERTILIZATION, AND/OR IRRIGATION PERFORMED IN ACCORDANCE WITH ANSI A300 ARBORICULTURE STANDARDS) OR BE REMOVED AND REPLACED. REPLACEMENT TREES SHALL BE IN ACCORDANCE WITH AMERICAN STANDARD FOR NURSERY STOCK, BE 2" CALIPER, BALLED AND BURLAPPED, INCLUDE STAKES, MULCH AND GATOR BAGS, BE GUARANTEED FOR A MINIMUM OF 1-YEAR FROM THE DATE OF ACCEPTANCE BY THE CITY.

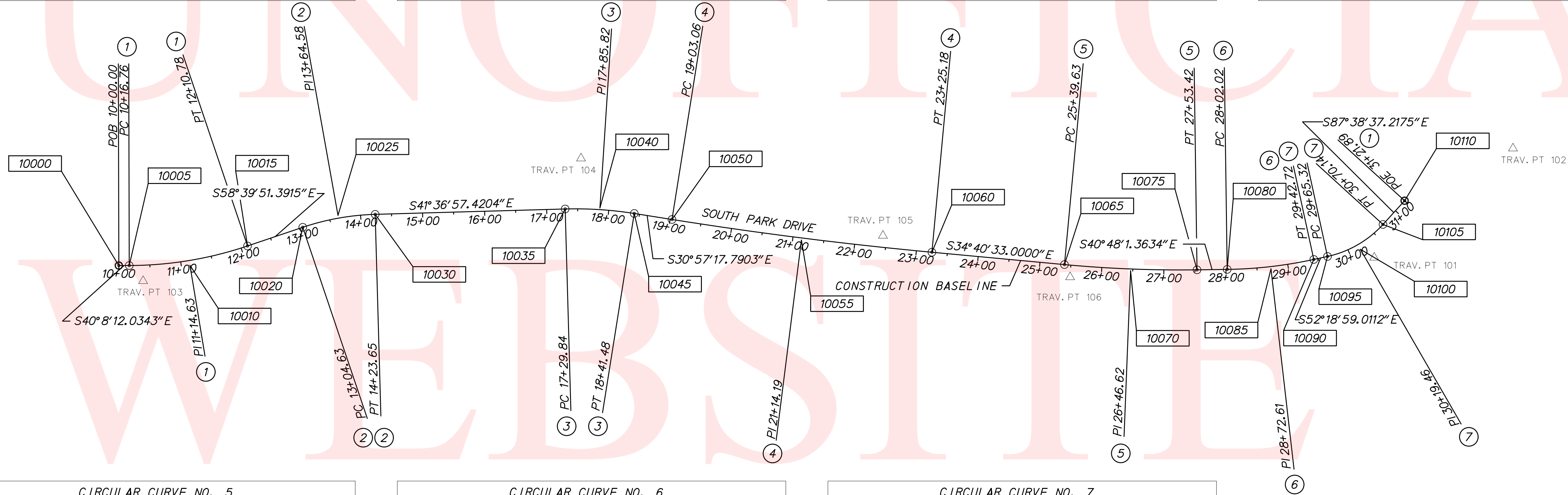
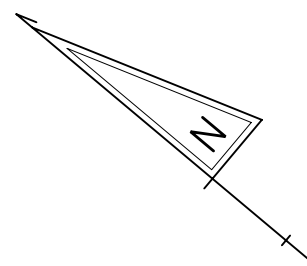
26. ROOT CUTTING OF ROOTS GREATER THAN 2 IN DIAMETER IS PROHIBITED WITHIN TREE DRIP LINES WITHOUT PRIOR PERMISSION FROM ANDY ROY, PARKS SUPERINTENDENT (302-577-7020) OR MANDY TOLINO URBAN FOREST ADMINISTRATOR (302-576-2582)

CIRCULAR CURVE NO. 1		
Element: Circular	NORTHING	EASTING
PC (10005) 10+16.76	639256.7013	617991.3949
PI (10010) 11+14.63	639181.8830	618054.4797
CC ()	639643.4692	618450.1003
PT (10015) 12+10.78	639130.9884	618138.0692
Radius:	600.0000	
Delta:	18° 31' 39.3573" Left	
Degree of Curvature(Arc):	9° 32' 57.4677"	
Length:	194.0206	
Tangent:	97.8646	
Chord:	193.1763	
Middle Ordinate:	7.8254	
External:	7.9288	
Tangent Direction:	S 40° 08' 12.0343" E	
Radial Direction:	S 49° 51' 47.9657" W	
Chord Direction:	S 49° 24' 01.7129" E	
Radial Direction:	S 31° 20' 08.6085" W	
Tangent Direction:	S 58° 39' 51.3915" E	

CIRCULAR CURVE NO. 2		
Element: Circular	NORTHING	EASTING
PC (10020) 13+04.63	639082.1815	618218.2298
PI (10025) 13+64.58	639051.0029	618269.4377
CC ()	638740.5276	618010.2091
PT (10030) 14+23.65	639006.1813	618309.2544
Radius:	400.0000	
Delta:	17° 02' 53.9711" Right	
Degree of Curvature(Arc):	14° 19' 26.2016"	
Length:	119.0198	
Tangent:	59.9529	
Chord:	118.5812	
Middle Ordinate:	4.4186	
External:	4.4680	
Tangent Direction:	S 58° 39' 51.3915" E	
Radial Direction:	S 31° 20' 08.6085" W	
Chord Direction:	S 50° 08' 24.4060" E	
Radial Direction:	S 48° 23' 02.5796" W	
Tangent Direction:	S 41° 36' 57.4204" E	

CIRCULAR CURVE NO. 3		
Element: Circular	NORTHING	EASTING
PC (10035) 17+29.84	638777.2688	618512.6064
PI (10040) 17+85.82	638735.4156	618549.7863
CC ()	638378.7882	618064.0385
PT (10045) 18+41.48	638687.4065	618578.5817
Radius:	600.0000	
Delta:	10° 39' 39.6301" Right	
Degree of Curvature(Arc):	9° 32' 57.4677"	
Length:	111.6418	
Tangent:	55.9825	
Chord:	111.4808	
Middle Ordinate:	2.5948	
External:	2.6060	
Tangent Direction:	S 41° 36' 57.4204" E	
Radial Direction:	S 48° 23' 02.5796" W	
Chord Direction:	S 36° 17' 07.6053" E	
Radial Direction:	S 59° 02' 42.2097" W	
Tangent Direction:	S 30° 57' 17.7903" E	

CIRCULAR CURVE NO. 4		
Element: Circular	NORTHING	EASTING
PC (10050) 19+03.06	638634.6022	618610.2533
PI (10055) 21+14.19	638453.5386	618718.8535
CC ()	641977.9671	624184.4717
PT (10060) 23+25.18	638279.9045	618838.9752
Radius:	6500.0000	
Delta:	3° 43' 15.2097" Left	
Degree of Curvature(Arc):	0° 52' 53.3047"	
Length:	422.1218	
Tangent:	211.1351	
Chord:	422.0476	
Middle Ordinate:	3.4264	
External:	3.4282	
Tangent Direction:	S 30° 57' 17.7903" E	
Radial Direction:	S 59° 02' 42.2097" W	
Chord Direction:	S 32° 48' 55.3951" E	
Radial Direction:	S 55° 19' 27.0000" W	
Tangent Direction:	S 34° 40' 33.0000" E	



CIRCULAR CURVE NO. 5		
Element: Circular	NORTHING	EASTING
PC (10065) 25+39.63	638103.5449	618960.9823
PI (10070) 26+46.62	638015.5536	619021.8555
CC ()	639241.4103	620605.7505
PT (10075) 27+53.42	637934.5591	619091.7690
Radius:	2000.0000	
Delta:	6° 07' 28.3634" Left	
Degree of Curvature(Arc):	2° 51' 53.2403"	
Length:	213.7870	
Tangent:	106.9954	
Chord:	213.6852	
Middle Ordinate:	2.8559	
External:	2.8600	
Tangent Direction:	S 34° 40' 33.0000" E	
Radial Direction:	S 55° 19' 27.0000" W	
Chord Direction:	S 37° 44' 17.1817" E	
Radial Direction:	S 49° 11' 58.6366" W	
Tangent Direction:	S 40° 48' 01.3634" E	

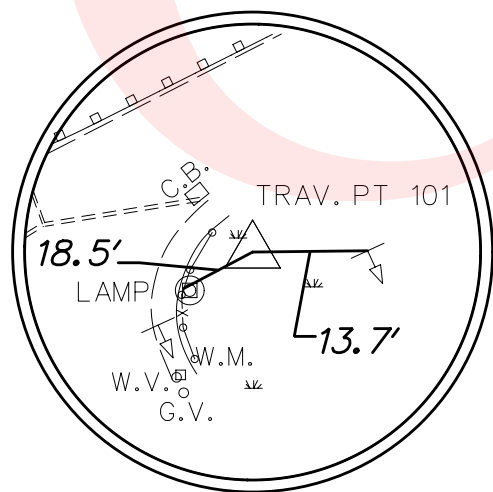
CIRCULAR CURVE NO. 6		
Element: Circular	NORTHING	EASTING
PC (10080) 28+02.02	637897.7663	619123.5282
PI (10085) 28+72.61	637844.3340	619169.6503
CC ()	638355.1642	619653.4217
PT (10090) 29+42.72	637801.1853	619225.5112
Radius:	700.0000	
Delta:	11° 30' 57.6478" Left	
Degree of Curvature(Arc):	8° 11' 06.4009"	
Length:	140.6946	
Tangent:	70.5851	
Chord:	140.4579	
Middle Ordinate:	3.5318	
External:	3.5498	
Tangent Direction:	S 40° 48' 01.3634" E	
Radial Direction:	S 49° 11' 58.6366" W	
Chord Direction:	S 46° 33' 30.1873" E	
Radial Direction:	S 37° 41' 00.9888" W	
Tangent Direction:	S 52° 18' 59.0112" E	

CIRCULAR CURVE NO. 7		
Element: Circular	NORTHING	EASTING
PC (10095) 29+65.32	637787.3655	619234.4025
PI (10100) 30+19.46	637754.2727	619286.2450
CC ()	637921.9032	619347.3237
PT (10105) 30+70.14	637752.0469	619340.3343
Radius:	170.0000	
Delta:	35° 19' 38.2063" Left	
Degree of Curvature(Arc):	33° 42' 12.2390"	
Length:	104.8181	
Tangent:	54.1351	
Chord:	103.1657	
Middle Ordinate:	8.0148	
External:	8.4113	
Tangent Direction:	S 52° 18' 59.0112" E	
Radial Direction:	S 37° 41' 00.9888" W	
Chord Direction:	S 69° 58' 48.1143" E	
Radial Direction:	S 2° 21' 22.7825" W	
Tangent Direction:	S 87° 38' 37.2175" E	

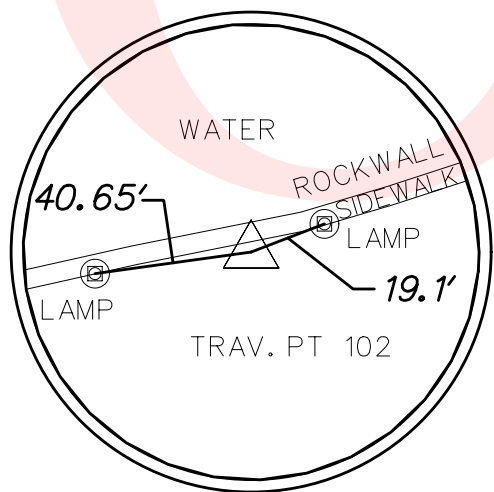
CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
10000	10+00.00	0.0000	639269.5152	617980.5906
10110	31+21.89	0.0000	637749.9192	619392.0421

HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
101	30+28.4761	31.5762	637728.5270	619290.4150	31.6200
* 102	-	-	637670.3900	619568.8250	21.3000
103	10+38.1707	25.3055	639223.5910	617986.7330	47.2400
104	17+54.3273	-81.3467	638810.1360	618591.4590	23.7700
105	22+43.9049	-18.7802	638357.5220	618808.7310	30.0100
106	25+50.4533	19.3170	638083.5843	618951.3382	36.2800

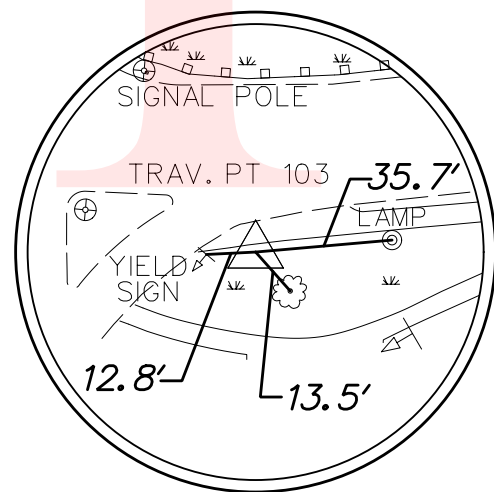
- * TRAVERSE POINT OUTSIDE BASELINE LIMITS
- NEGATIVE OFFSET DENOTES LEFT OF BASELINE
- HORIZONTAL DATUM BASED ON NATIONAL GEODETIC SURVEY (N.A.D. 83)
- VERTICAL DATUM BASED ON NATIONAL GEODETIC SURVEY (N.A.V.D. 88)



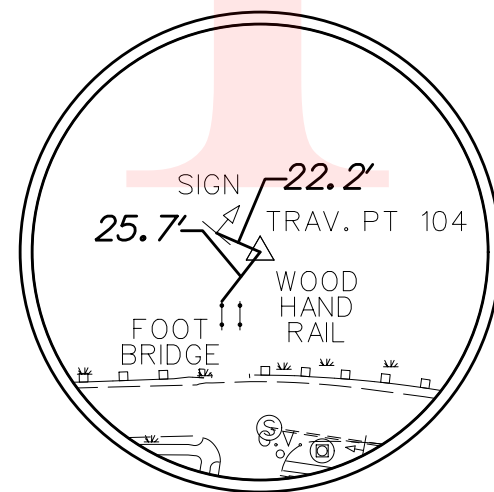
TRAVERSE POINT #101
REBAR CAP



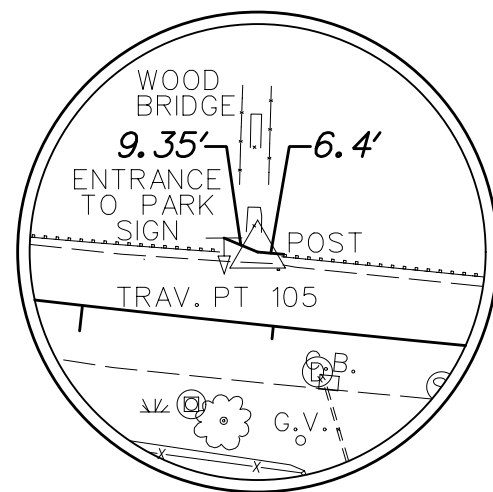
TRAVERSE POINT #102
REBAR CAP



TRAVERSE POINT #103
REBAR CAP



TRAVERSE POINT #104
REBAR CAP

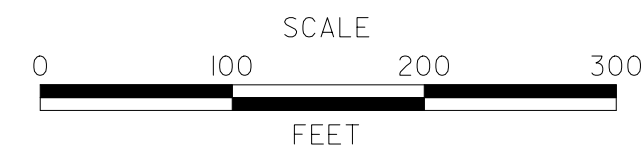


TRAVERSE POINT #105
CROSS CUT (IN SIDEWALK)



DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



SOUTH PARK DRIVE
LIGHTING IMPROVEMENTS,
CITY OF WILMINGTON

CONTRACT
T201020005
COUNTY
NEW CASTLE

BRIDGE NO.
DESIGNED BY: LB
CHECKED BY: JMH

N/A

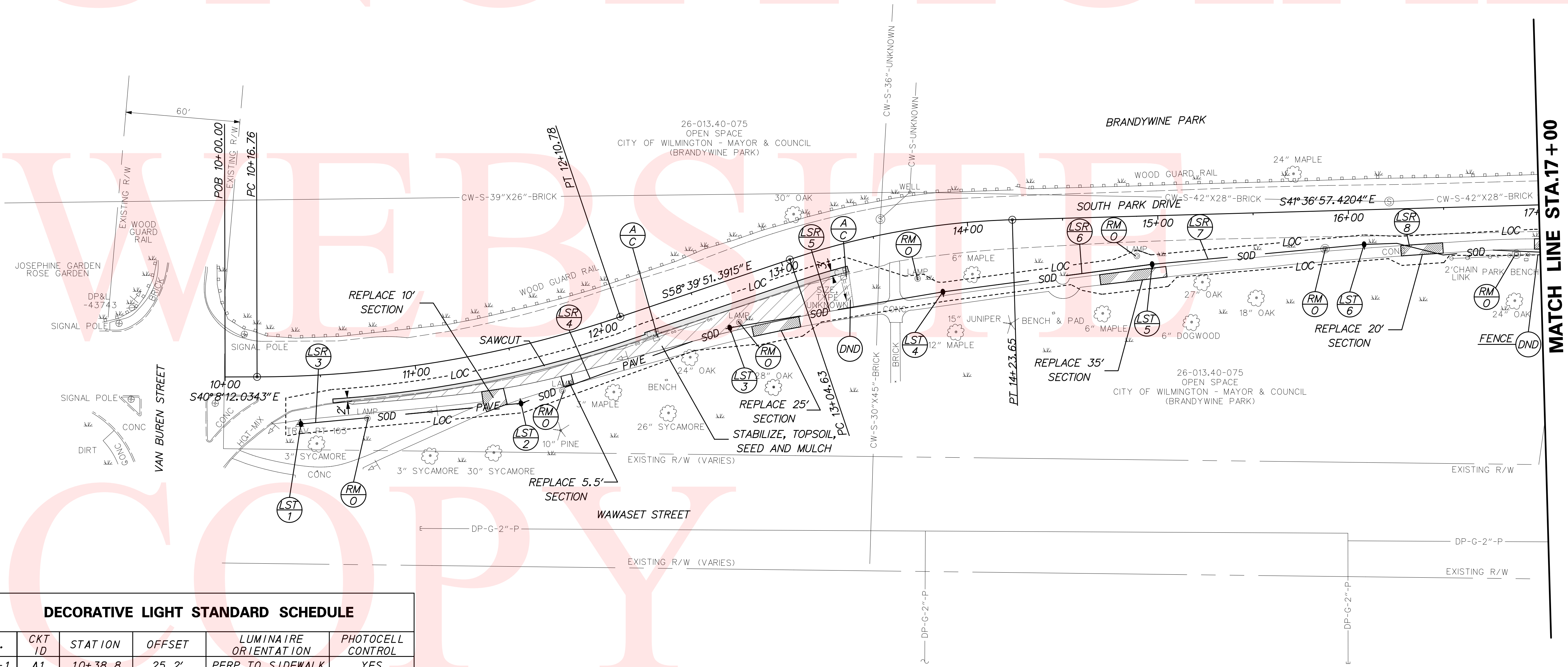
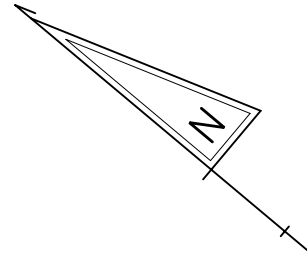
HORIZONTAL AND
VERTICAL CONTROL

HV-01

SHEET NO.
5
TOTAL SHTS.
16

CONDUIT & CONDUCTOR RUN SCHEDULE					
CONDUIT RUN #	FROM	TO	2.5" GALV. CONDUIT (FT)	#6 AWG CONDUCTOR (FT)	#6 AWG GROUNDING CONDUCTOR (FT)
LSR-3	LST-1(A1)	LST-2(B1)	116	255	128
LSR-4	LST-2	LST-3(A2)	116	383	128
LSR-5	LST-3	LST-4(B2)	113	373	124
LSR-6	LST-4	LST-5(A3)	111	366	122
LSR-7	LST-5	LST-6(B3)	112	370	123
LSR-8	LST-6	LST-7(A4)	113	373	124
TOTAL			681	2120	749

LIGHTING LEGEND	
SYMBOL	ITEM
	GALVANIZED CONDUIT UNDER NEW PAVEMENT OR IN SODDED TRENCH, 2.5"
	GALVANIZED CONDUIT UNDER EXISTING PAVEMENT, 2.5"
	CONDUIT JUNCTION WELL
	LIGHT STANDARD WITH LUMINAIRE
	LIGHTING CONTROL CENTER - 100A
	PROPOSED CONDUIT JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
	PROPOSED LIGHT STANDARD IDENTIFIER (LIGHT STANDARD #)
	PROPOSED LIGHTING CONDUIT RUN IDENTIFIER (LIGHTING CONDUIT RUN #)
	PROPOSED LIGHTING CONTROL CENTER - 100A (LIGHTING CONTROL CENTER #)



DECORATIVE LIGHT STANDARD SCHEDULE					
NO.	CKT ID	STATION	OFFSET	LUMINAIRE ORIENTATION	PHOTOCELL CONTROL
LST-1	A1	10+38.8	25.2'	PERP. TO SIDEWALK	YES
LST-2	B1	11+49.8	29.6'	PERP. TO SIDEWALK	YES
LST-3	A2	12+63.3	23.9'	PERP. TO SIDEWALK	YES
LST-4	B2	13+82.5	34.9'	PERP. TO SIDEWALK	YES
LST-5	A3	14+96.3	25.5'	PERP. TO SIDEWALK	YES
LST-6	B3	16+07.8	18.2'	PERP. TO SIDEWALK	YES

3/27/2012
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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE

0 30 60 90

FEET

SOUTH PARK DRIVE
LIGHTING IMPROVEMENTS,
CITY OF WILMINGTON

CONTRACT
T201020005

COUNTY
NEW CASTLE

BRIDGE NO.
N/A

DESIGNED BY: LB

CHECKED BY: JMH

CONSTRUCTION AND
LIGHTING
PLAN

CP-01
(LI-01)

SHEET NO.
6

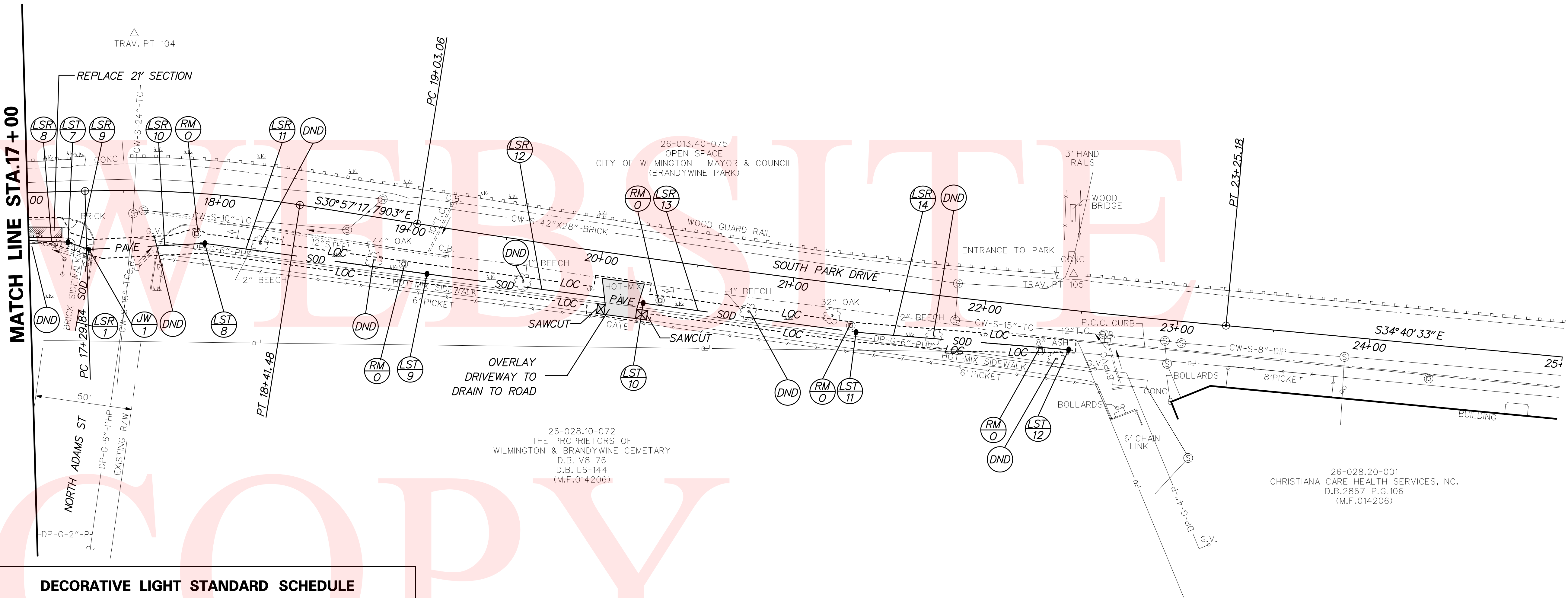
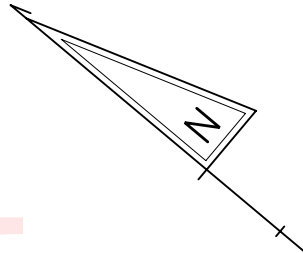
TOTAL SHTS.
16

CONDUIT JUNCTION WELL SCHEDULE			
STATION	OFFSET	TYPE	DIMENSION
17+31.0	30.3'	1	20" x 20" PRECAST CONCRETE

CONDUIT & CONDUCTOR RUN SCHEDULE					
CONDUIT RUN #	FROM	TO	2.5" GALV. CONDUIT (FT)	#6 AWG CONDUCTOR (FT)	#6 AWG GROUNDING CONDUCTOR (FT)
LSR-1	DP&L POLE	JW-1	100	330	110
LSR-8	LST-6(B3)	LST-7(A4)	SEE THE ADJACENT SHEET FOR QUANTITIES		
LSR-9	LST-7	JW-1	11	36	12
LSR-10	JW-1	LST-8(B4)	60	198	66
LSR-11	LST-8	LST-9(A5)	116	383	128
LSR-12	LST-9	LST-10(B5)	113	373	124
LSR-13	LST-10	LST-11(A6)	112	370	123
LSR-14	LST-11	LST-12(B6)	110	242	121
TOTAL			622	1932	684

NOTE: EXISTING LIGHTING CIRCUIT ORIGINATES AT N. WEST STREET AND CONTINUES TO THE EXISTING LIGHT FIXTURE AT STATION 17+89 RT ADJACENT TO N. ADAMS STREET. CONTRACTOR IS TO END EXISTING CIRCUIT AT EXISTING LIGHT STANDARD AT STATION 24+32 RT.

LIGHTING LEGEND	
SYMBOL	ITEM
	GALVANIZED CONDUIT UNDER NEW PAVEMENT OR IN SODDED TRENCH, 2.5"
	GALVANIZED CONDUIT UNDER EXISTING PAVEMENT, 2.5"
	CONDUIT JUNCTION WELL
	LIGHT STANDARD WITH LUMINAIRE
	LIGHTING CONTROL CENTER - 100A
	PROPOSED CONDUIT JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
	PROPOSED LIGHT STANDARD IDENTIFIER (LIGHT STANDARD #)
	PROPOSED LIGHTING CONDUIT RUN IDENTIFIER (LIGHTING CONDUIT RUN #)
	PROPOSED LIGHTING CONTROL CENTER - 100A (LIGHTING CONTROL CENTER #)

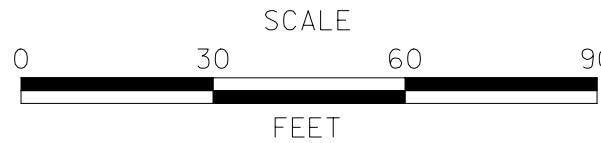


DECORATIVE LIGHT STANDARD SCHEDULE					
NO.	CKT ID	STATION	OFFSET	LUMINAIRE ORIENTATION	PHOTOCELL CONTROL
LST-7	A4	17+20.3	26.3'	PERP. TO SIDEWALK	YES
LST-8	B4	17+96.9	25.6'	PERP. TO SIDEWALK	YES
LST-9	A5	19+12.1	24.9'	PERP. TO SIDEWALK	YES
LST-10	B5	20+24.6	23.4'	PERP. TO SIDEWALK	YES
LST-11	A6	21+35.5	24.0'	PERP. TO SIDEWALK	YES
LST-12	B6	22+45.5	20.5'	PERP. TO SIDEWALK	YES

4/25/2012
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ADDENDUMS / REVISIONS



SOUTH PARK DRIVE
LIGHTING IMPROVEMENTS,
CITY OF WILMINGTON

CONTRACT
T201020005
COUNTY
NEW CASTLE

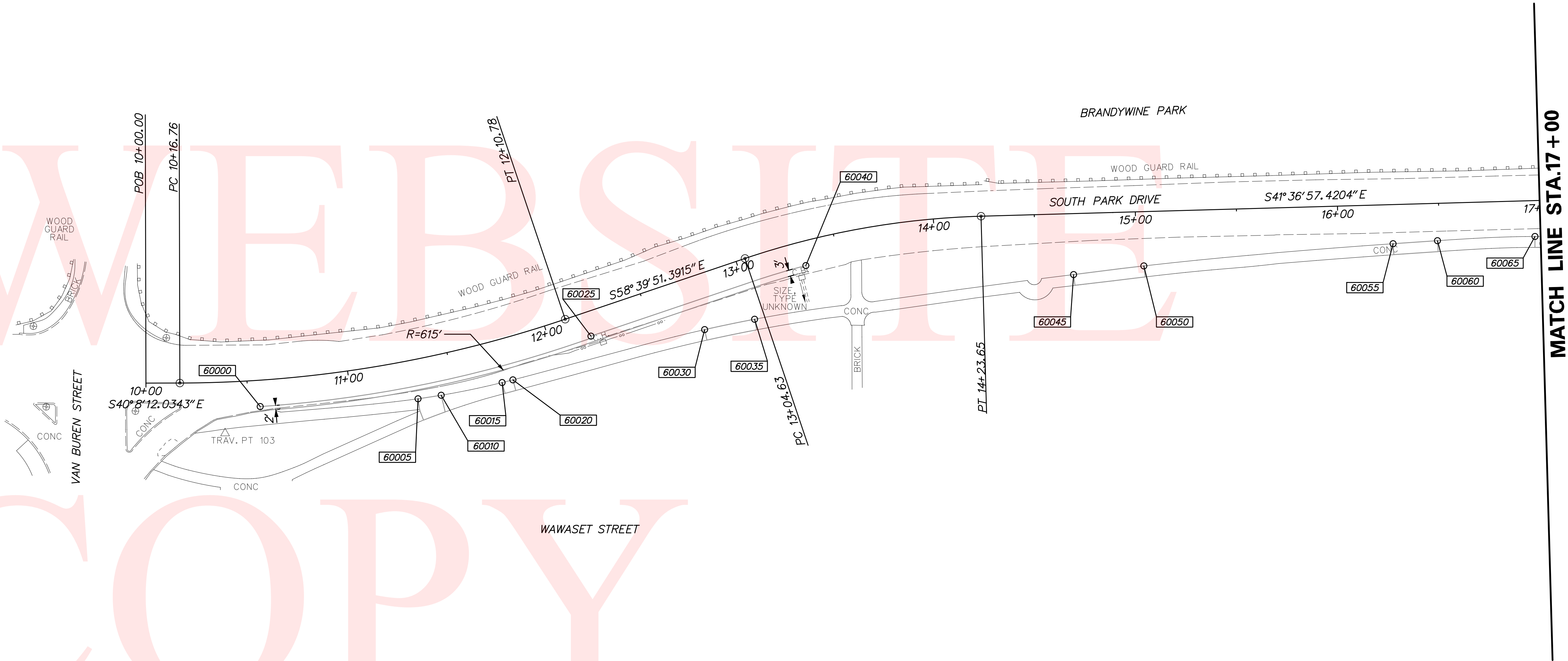
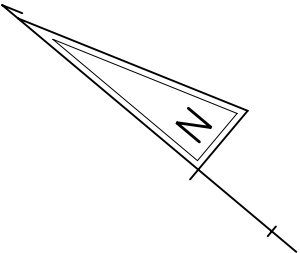
BRIDGE NO.
N/A
DESIGNED BY: LB
CHECKED BY: JMH

CONSTRUCTION AND
LIGHTING
PLAN

CP-02
(LI-02)

SHEET NO.
7
TOTAL SHTS.
16

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60000	10+55.66	13.00	639218.7917	618008.0392
60005	11+31.56	19.36	639161.4572	618061.1598
60010	11+42.76	19.96	639153.8105	618069.8547
60015	11+72.51	20.95	639134.7608	618094.0247
60020	11+77.82	21.06	639131.5352	618098.4808
60025	12+20.16	12.00	639115.8590	618139.8431
60030	12+74.44	26.93	639074.8752	618178.4369
60035	12+99.51	30.00	639059.2254	618198.2555
60040	13+32.89	12.00	639056.8627	618234.8780
60045	14+68.60	30.13	638952.5665	618316.5790
60050	15+03.44	26.83	638928.7119	618342.1907
60055	16+26.97	19.33	638841.3412	618429.8314
60060	16+48.95	18.46	638825.4862	618445.0832
60065	16+97.21	17.74	638789.8893	618447.6719



3/27/2012
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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



SOUTH PARK DRIVE
LIGHTING IMPROVEMENTS,
CITY OF WILMINGTON

CONTRACT
T201020005
COUNTY
NEW CASTLE

BRIDGE NO.
DESIGNED BY: LB
CHECKED BY: JMH

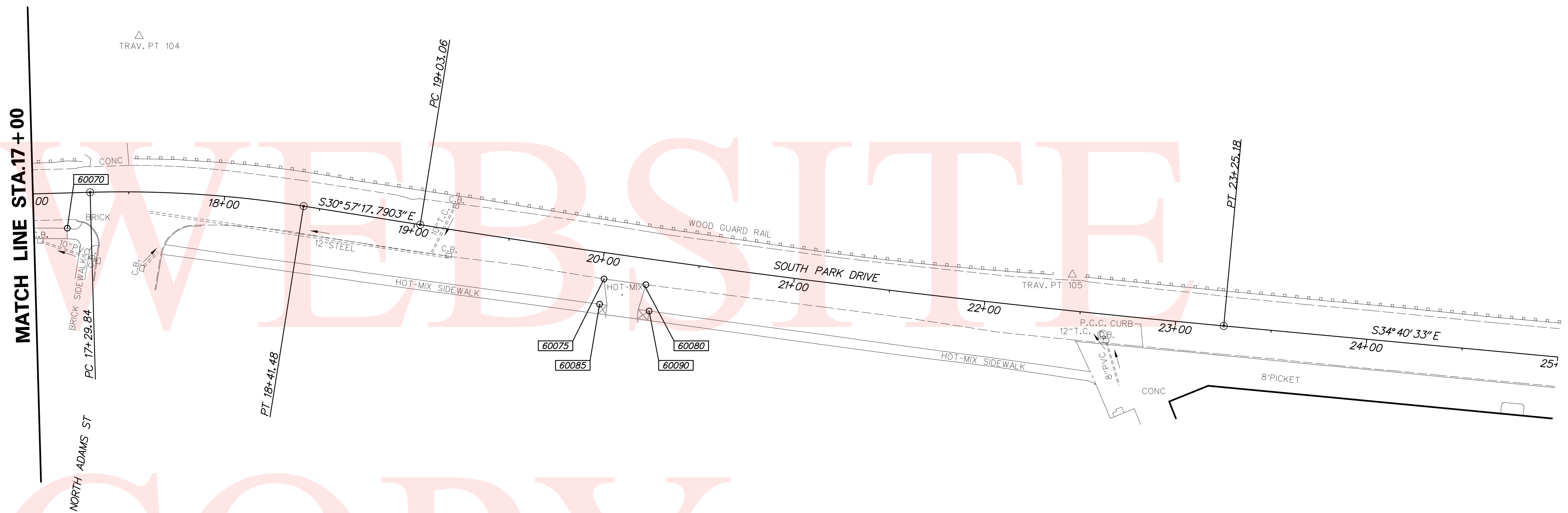
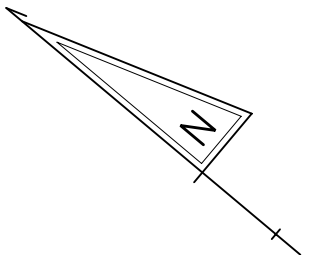
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GRADES AND
GEOMETRICS

GG-01

SHEET NO.
8
TOTAL SHTS.
16

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60070	17+17.42	18.37	638774.3557	618490.6190
60075	20+01.88	13.64	638543.0522	618650.1371
60080	20+23.86	13.53	638524.4188	618661.8769
60085	20+01.44	26.98	638536.3929	618638.5728
60090	20+27.41	26.90	638514.3005	618652.4322



3/27/2012
...\\Final Plan\\GG002 - Southpark.dgn



DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



SOUTH PARK DRIVE
LIGHTING IMPROVEMENTS,
CITY OF WILMINGTON

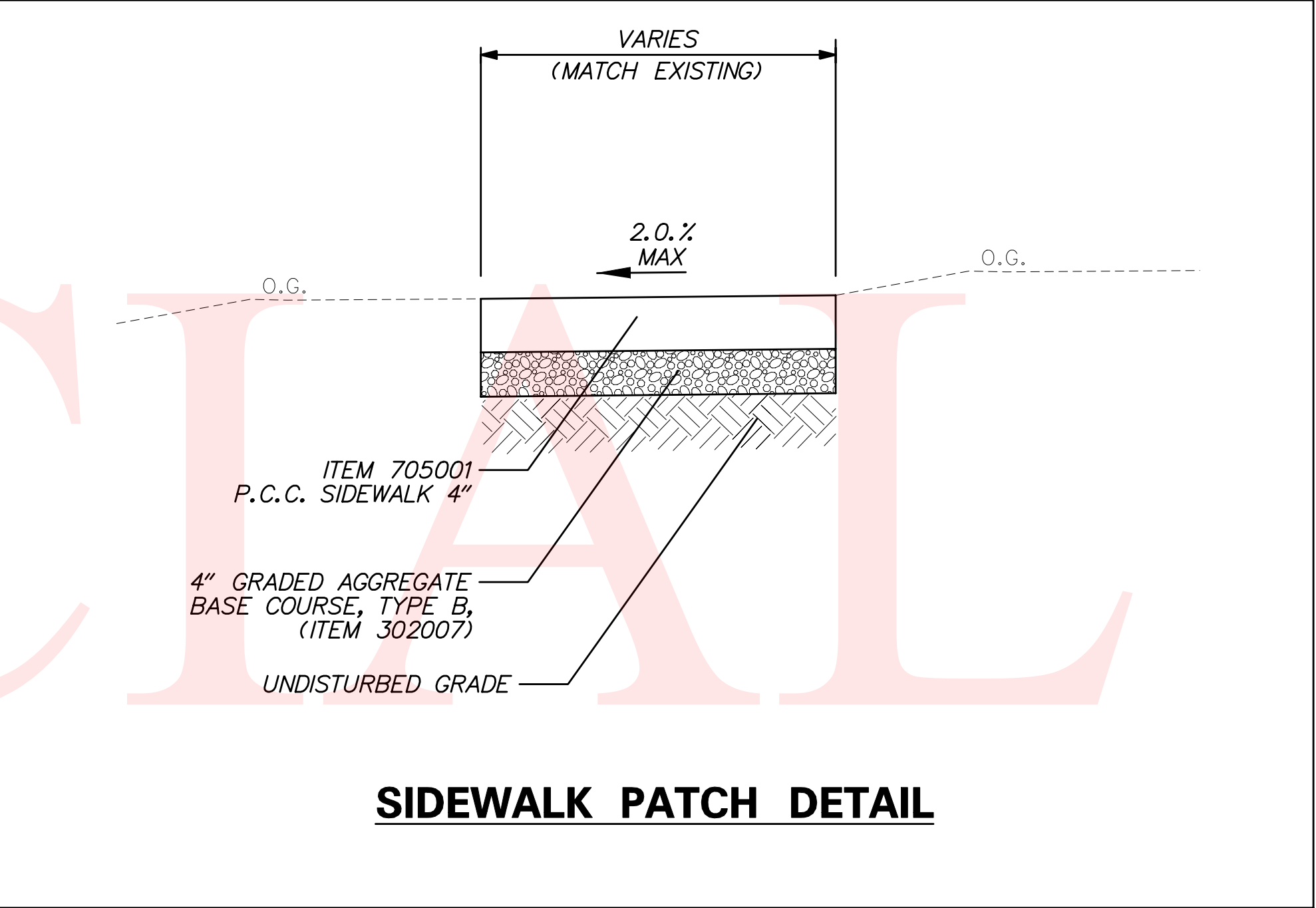
CONTRACT
T201020005
COUNTY
NEW CASTLE

BRIDGE NO.	N/A
DESIGNED BY:	LB
CHECKED BY:	JMH

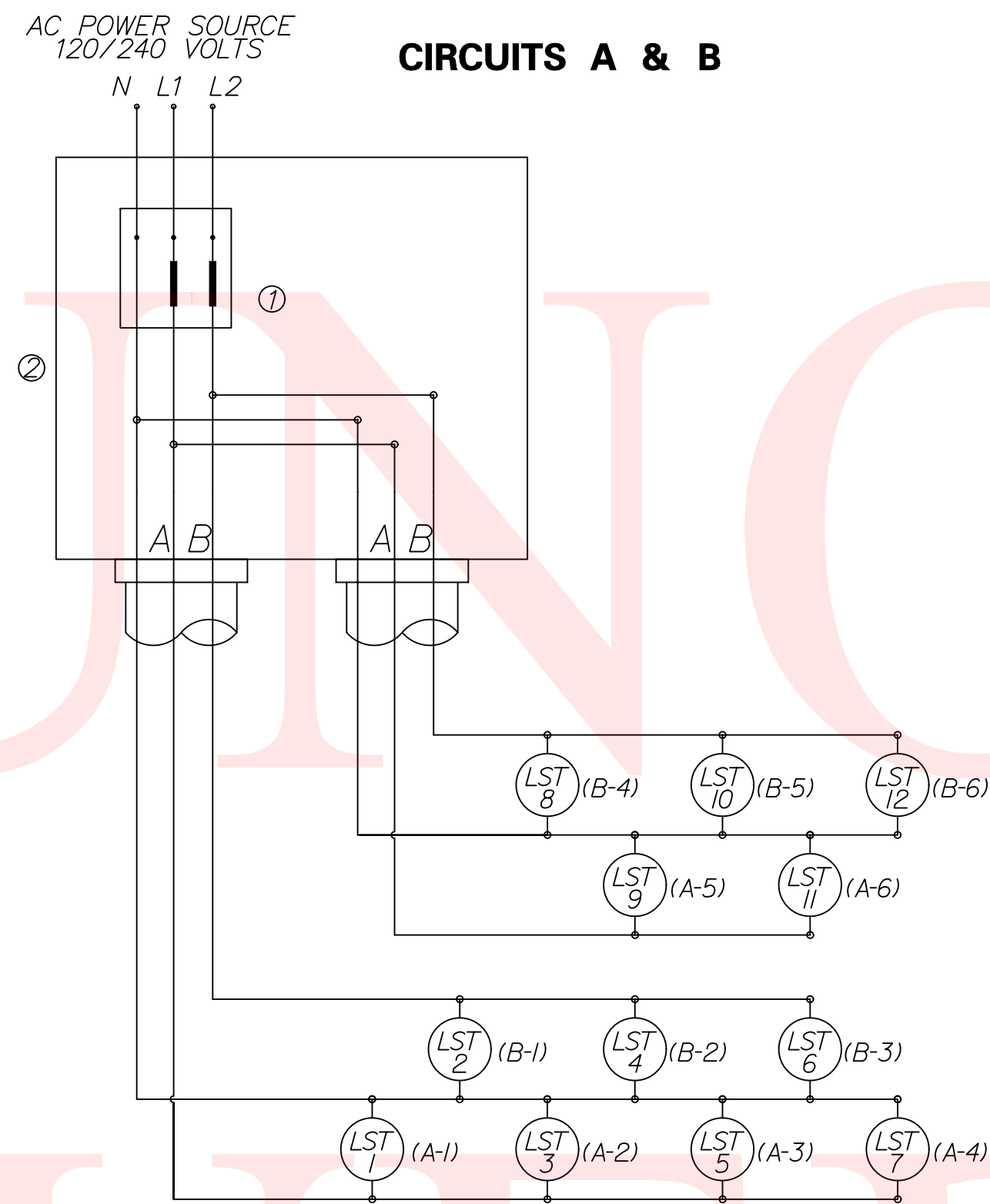
GRADES AND
GEOMETRICS

GG-02

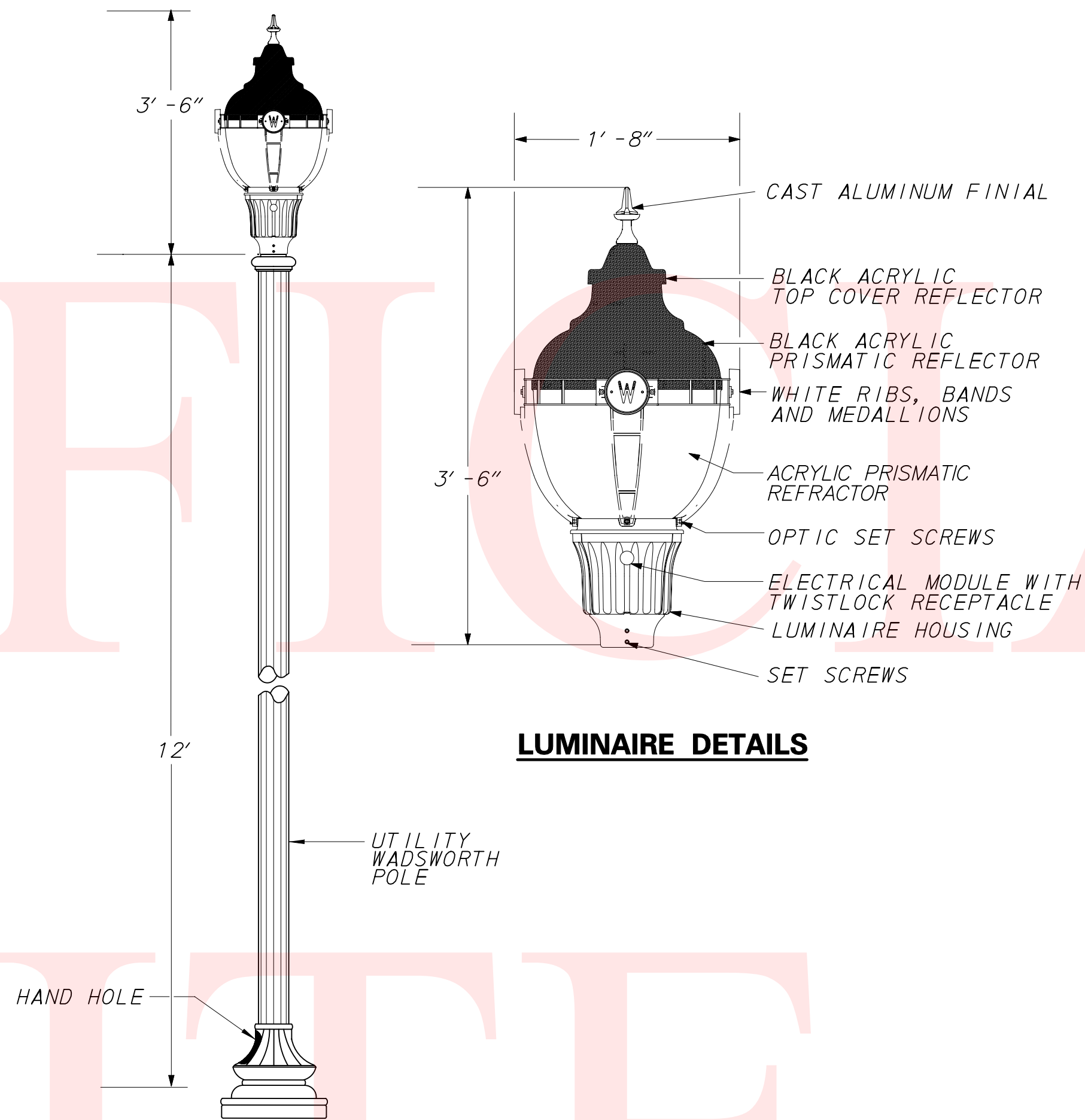
SHEET NO.
9
TOTAL SHTS.
16



3/27/2012
...\\FinalPlan\DT001_Southpark.dgn

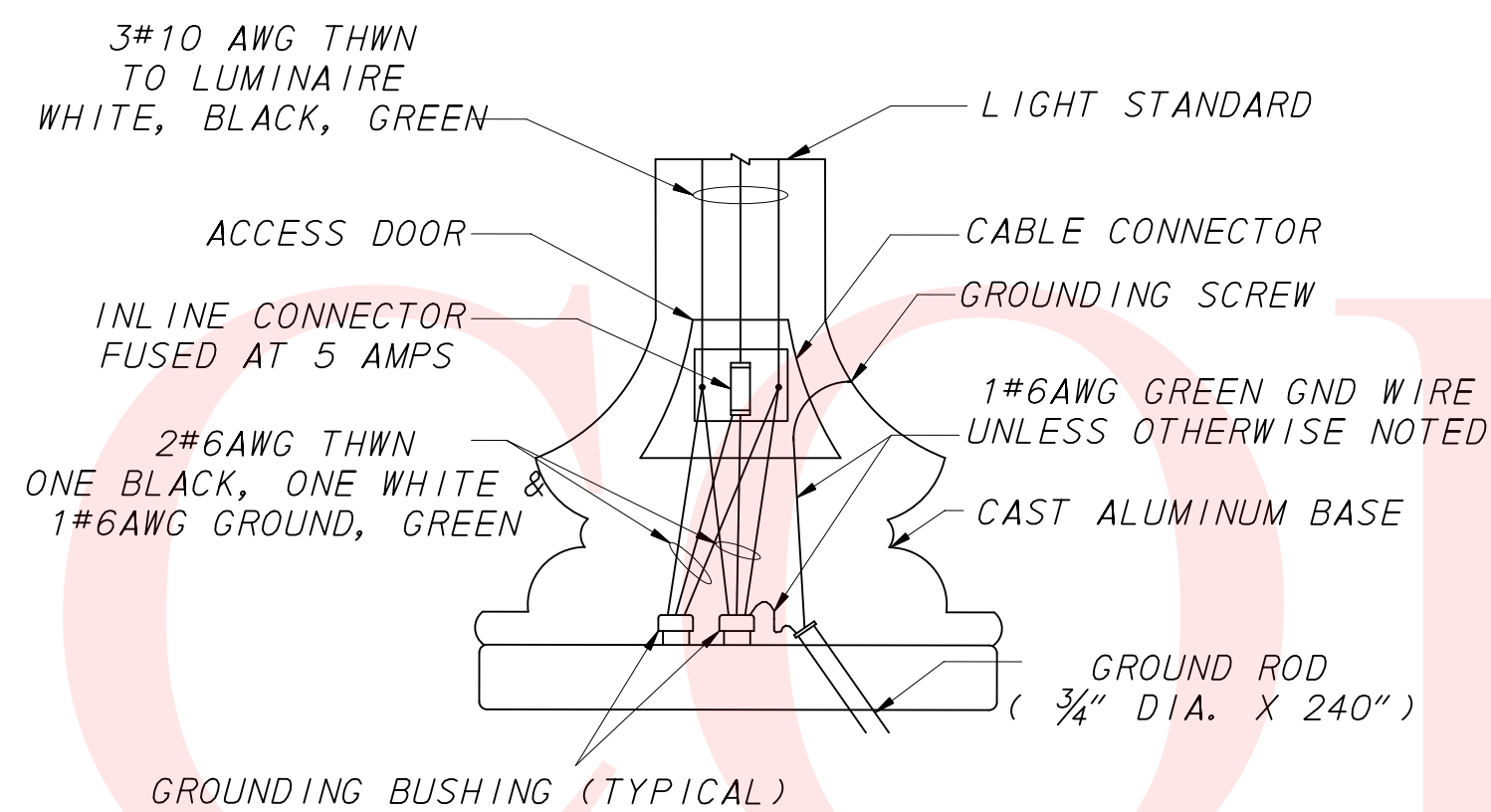


SIDEWALK LIGHTING ELECTRICAL SCHEMATIC

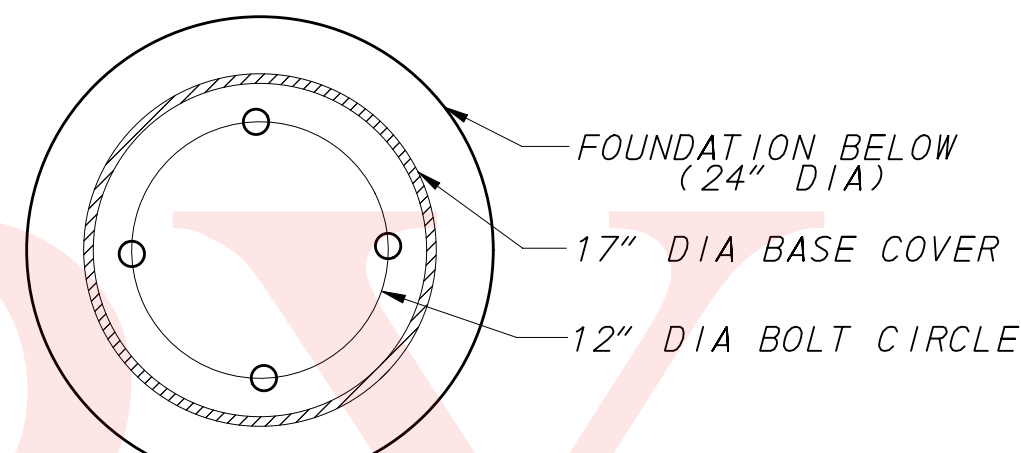


LUMINAIRE DETAILS

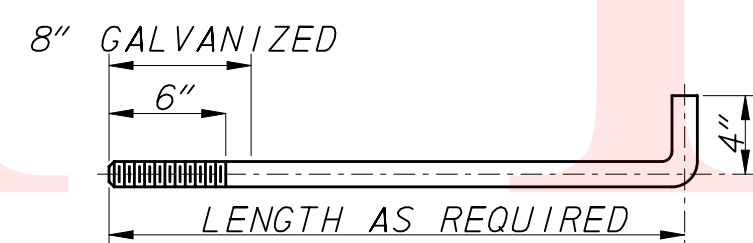
- NOTES:**
1. CONSTRUCTION DETAILS NOT SHOWN ON THE DRAWINGS ARE TO CONFORM TO THE DELDOT STANDARDS.
 2. THE STANDARD SPECIFICATIONS FOR THIS PROJECT ARE DELDOT SPECIFICATIONS.
 3. PROVIDE SERVICE DISCONNECT AND CONDUIT RISER IN ACCORDANCE WITH DELMARVA POWER'S REQUIREMENTS.
 4. PROVIDE WATERTIGHT, SUBMERSIBLE, PREMOLDED, DISCONNECTABLE, CONNECTOR KITS FOR ALL SPLICES.
 5. PROVIDE INDIVIDUAL FUSING FOR ALL LUMINAIRES.
 6. DURING CONSTRUCTION, ALL ELECTRICAL SYSTEMS INCLUDING WIRES AND CONNECTIONS TO BE PROTECTED IN A MANNER THAT ENSURES THE SAFETY OF WORKERS AND THE GENERAL PUBLIC.
 7. PRIOR TO CLOSING ANY LANES, THE CONTRACTOR WITHIN THE PROJECT LIMITS SHALL PERFORM AN INSPECTION OF THE EXISTING LIGHTING SYSTEM TO INSURE PROPER FUNCTIONING OF THE SYSTEM.
 8. USE #6 AWG WIRE FOR ALL CIRCUITS UNLESS INDICATED IN THE PLANS OR BY THE ENGINEER. PROVIDE #6 AWG GREEN NEUTRAL WIRE TO TERMINATE AT EACH LUMINAIRE.
 9. THE CONTRACTOR SHALL PROVIDE FOUR SETS OF RED-LINED AS-BUILT PLANS TO THE ENGINEER SHOWING OFFSETS FROM THE CENTERLINE OF THE ROAD AND DEPTH OF THE CONDUIT FROM CENTERLINE OF THE ROAD.



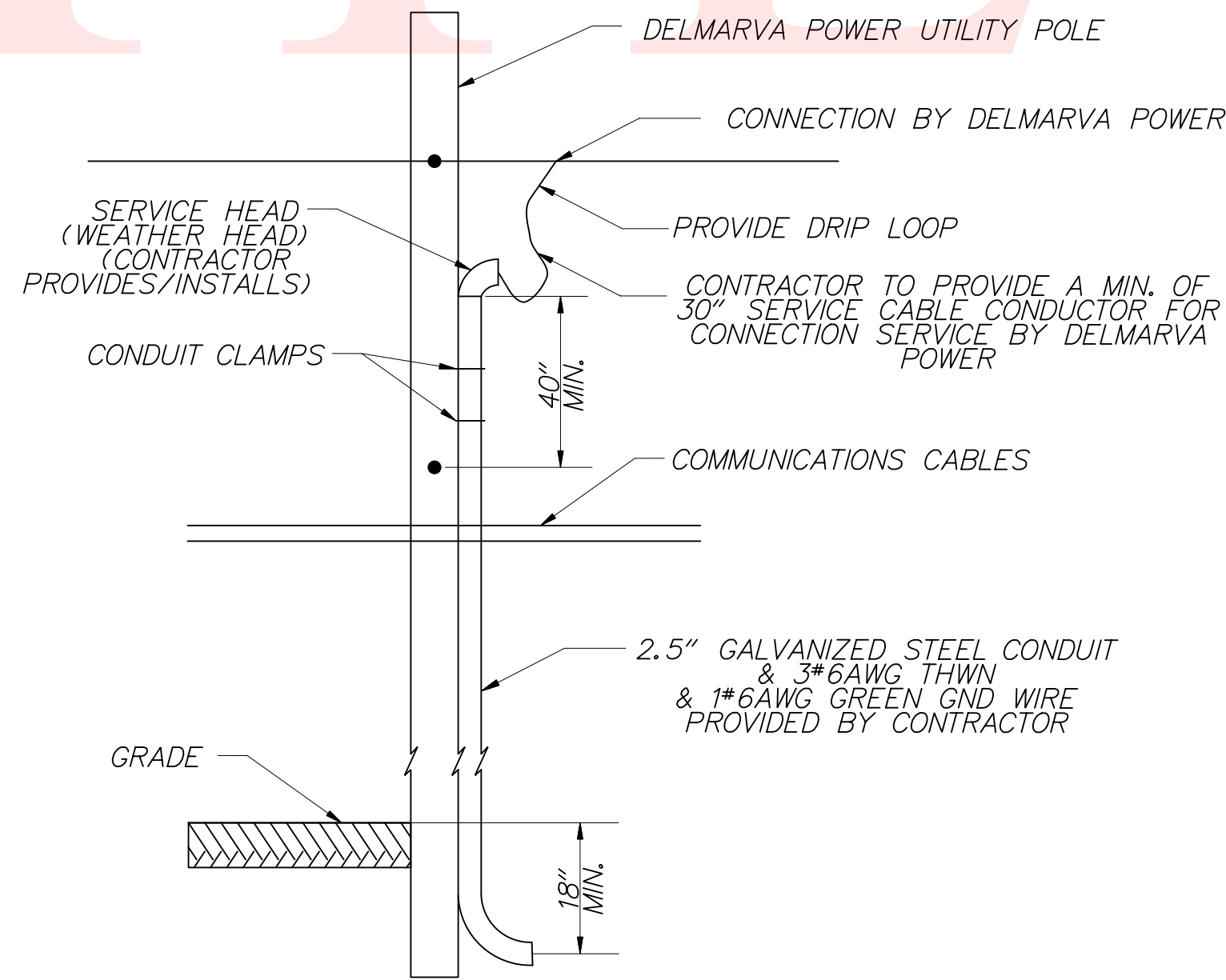
TYPICAL LUMINAIRE CONNECTION



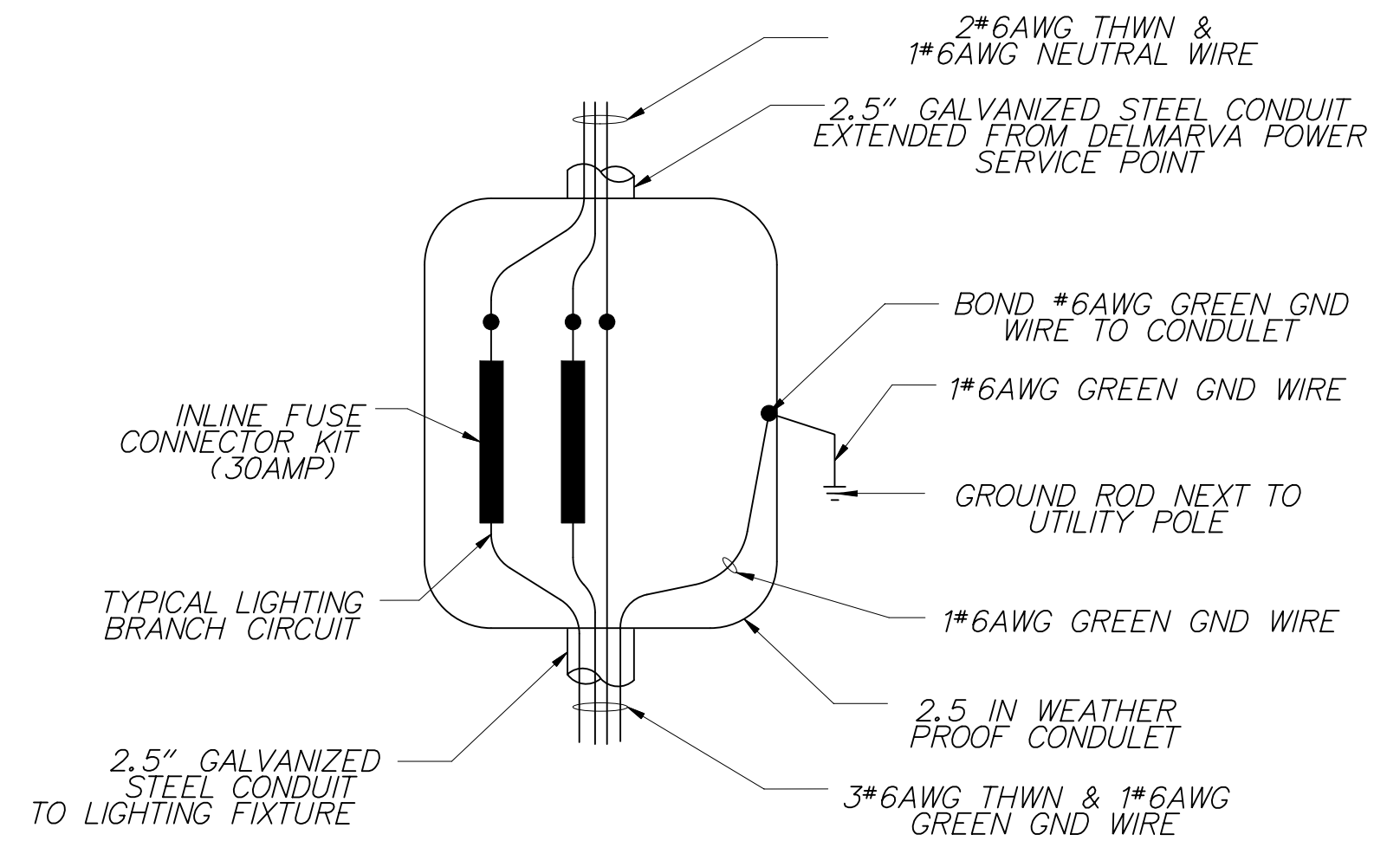
POLE BASE PLAN



ANCHOR BOLT DETAIL



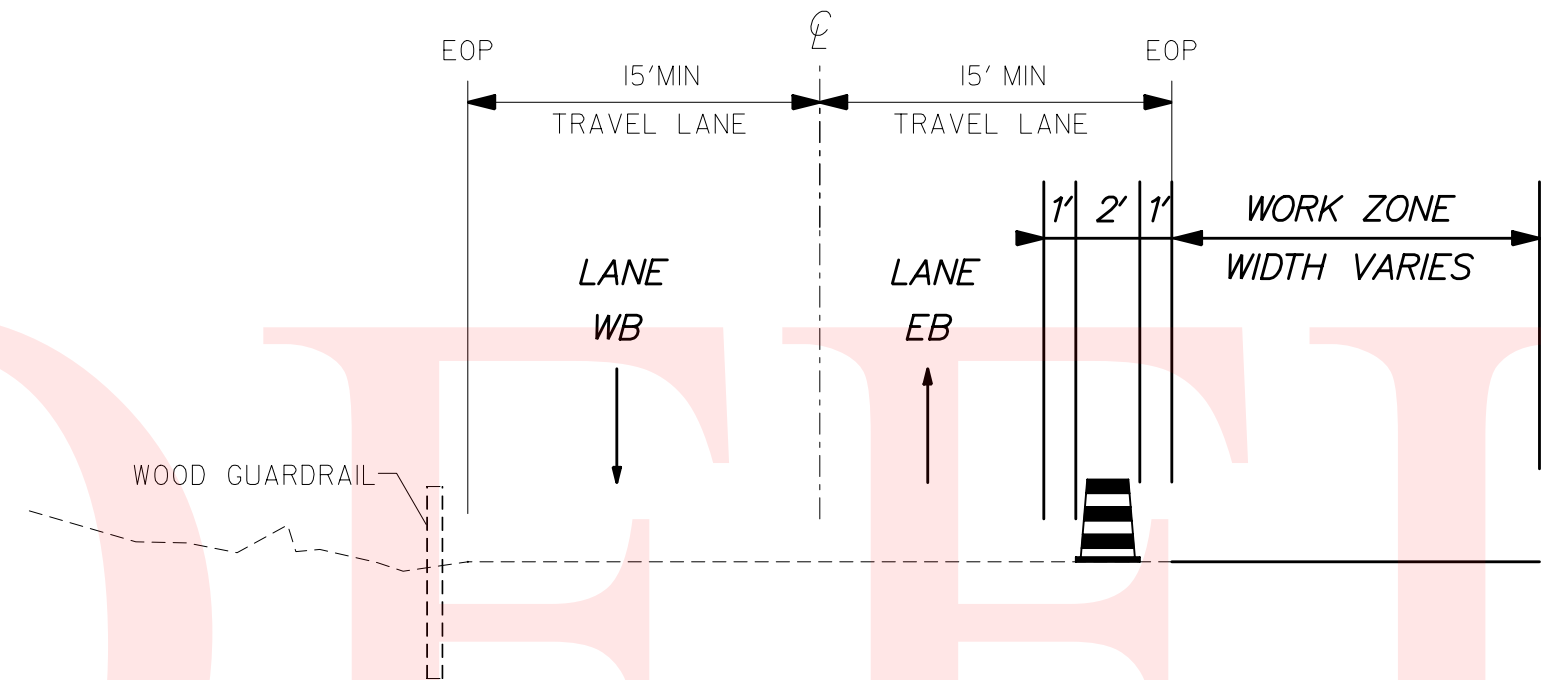
POLE SERVICE DETAIL



WEATHERPROOF CONDULET DETAIL (POWER BRANCH CIRCUIT)

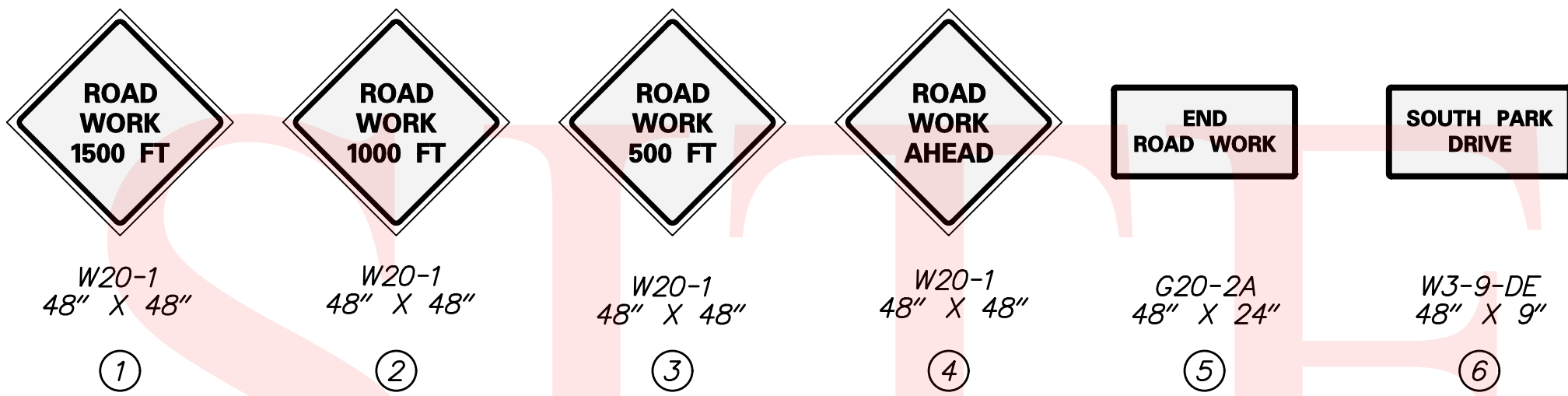
GENERAL MOT NOTES

1. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND LANE SHIFTS SHALL CONFORM TO TYPICAL APPLICATIONS TA-3, AND TA-10 OF THE TRAFFIC CONTROL MANUAL. LANE CLOSURES CAN BE BETWEEN 9AM AND 3PM, MONDAY THROUGH FRIDAY, OR AS DIRECTED BY THE ENGINEER.
2. THESE PLANS AND SPECIFICATIONS ARE THE MINIMUM REQUIREMENTS FOR THE CONDITIONS SET FORTH. THE ENGINEER MAY REQUIRE ADDITIONAL TRAFFIC CONTROL DEVICES AND MAY ALTER THE SEQUENCE OF CONSTRUCTION OR MEANS OF TRAFFIC CONTROL AS DEEMED NECESSARY.
3. GRADING AND MAINTAINING HOT-MIX TRM THAT IS BEING USED AS A TRAVELWAY, DRIVEWAY ACCESS, RAMP, ETC. SHALL BE INCIDENTAL TO ITEM 743000 - MAINTENANCE OF TRAFFIC. EXCESS HOT-MIX TRM SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT. NO SEPARATE PAYMENT SHALL BE MADE FOR TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFF UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A PERMANENT ROADWAY AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM. CONSTRUCTION OF A PLANNED RUNAROUND OR DETOUR WOULD BE ELIGIBLE FOR PAYMENT AS SPECIFIED IN THE CONTRACT.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND ALONG PEDESTRIAN AND TRANSIT FACILITIES AT ALL TIMES DURING CONSTRUCTION. EARTH, STONE, AND GRAVEL SURFACE ARE NOT ACCEPTABLE FOR PROVIDING PEDESTRIAN ACCESS. WHERE PEDESTRIAN ROUTES ARE CLOSED OR BLOCKED, ALTERNATE PEDESTRIAN ACCESS SHALL BE PROVIDED TO THE SATISFACTION OF THE ENGINEER AND SHALL BE ADA COMPLIANT. MAINTENANCE OF TRAFFIC FOR PEDESTRIAN FACILITY CLOSURES AND DETOUR SHALL COMPLY WITH CASE TA-28 OR TA-29 FROM TRAFFIC CONTROL MANUAL. THE COST FOR ANY PROVISIONS SHALL BE INCIDENTAL TO ITEM 743000 - MAINTENANCE OF TRAFFIC.



SOUTH PARK DRIVE STA. 10+00 TO STA. 22+50
NOT TO SCALE

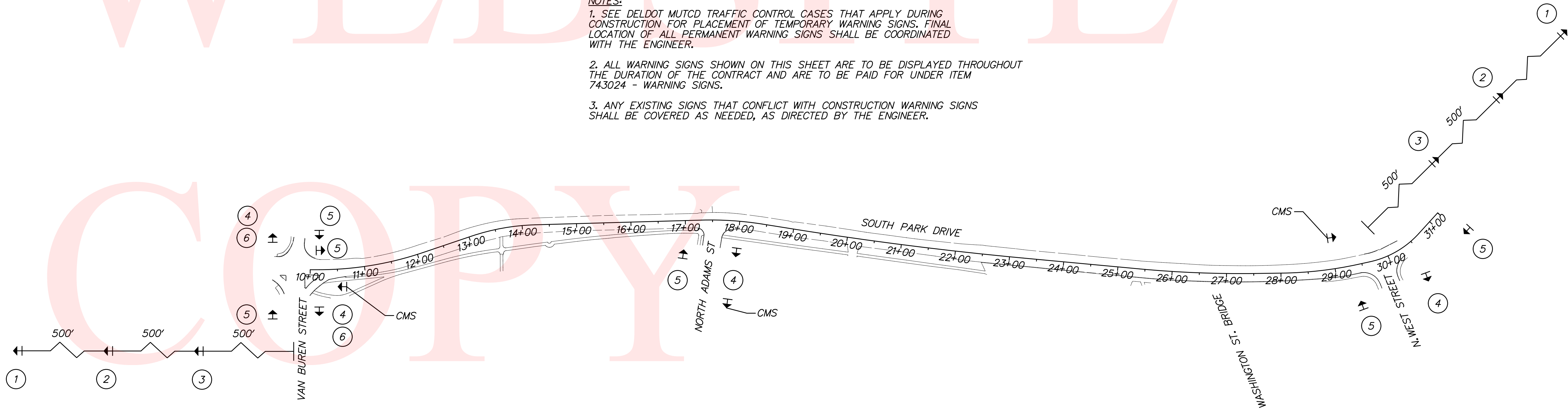
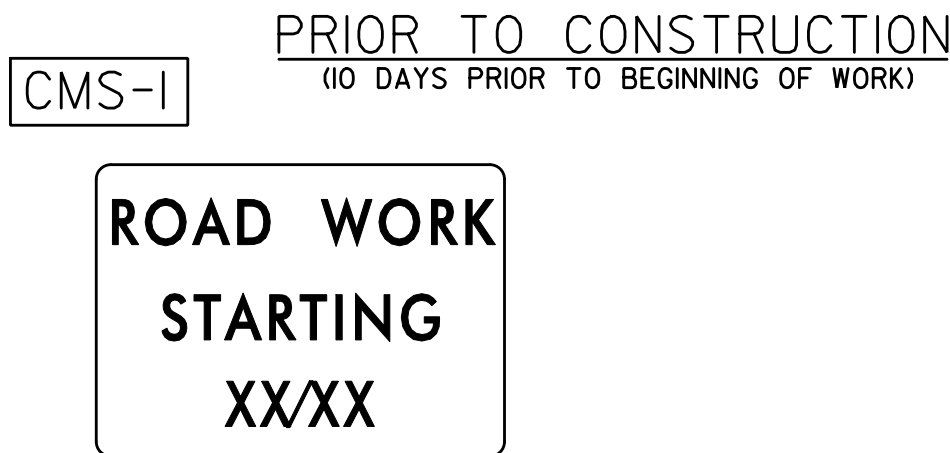
WARNING SIGN LEGEND



NOTES:

1. SEE DELDOT MUTCD TRAFFIC CONTROL CASES THAT APPLY DURING CONSTRUCTION FOR PLACEMENT OF TEMPORARY WARNING SIGNS. FINAL LOCATION OF ALL PERMANENT WARNING SIGNS SHALL BE COORDINATED WITH THE ENGINEER.
2. ALL WARNING SIGNS SHOWN ON THIS SHEET ARE TO BE DISPLAYED THROUGHOUT THE DURATION OF THE CONTRACT AND ARE TO BE PAID FOR UNDER ITEM 743024 - WARNING SIGNS.
3. ANY EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION WARNING SIGNS SHALL BE COVERED AS NEEDED, AS DIRECTED BY THE ENGINEER.

CHANGEABLE MESSAGE BOARDS



4/25/2012
\\CS000-Southpark-notes.dgn



DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

SOUTH PARK DRIVE
LIGHTING IMPROVEMENTS,
CITY OF WILMINGTON

CONTRACT
T201020005
COUNTY
NEW CASTLE

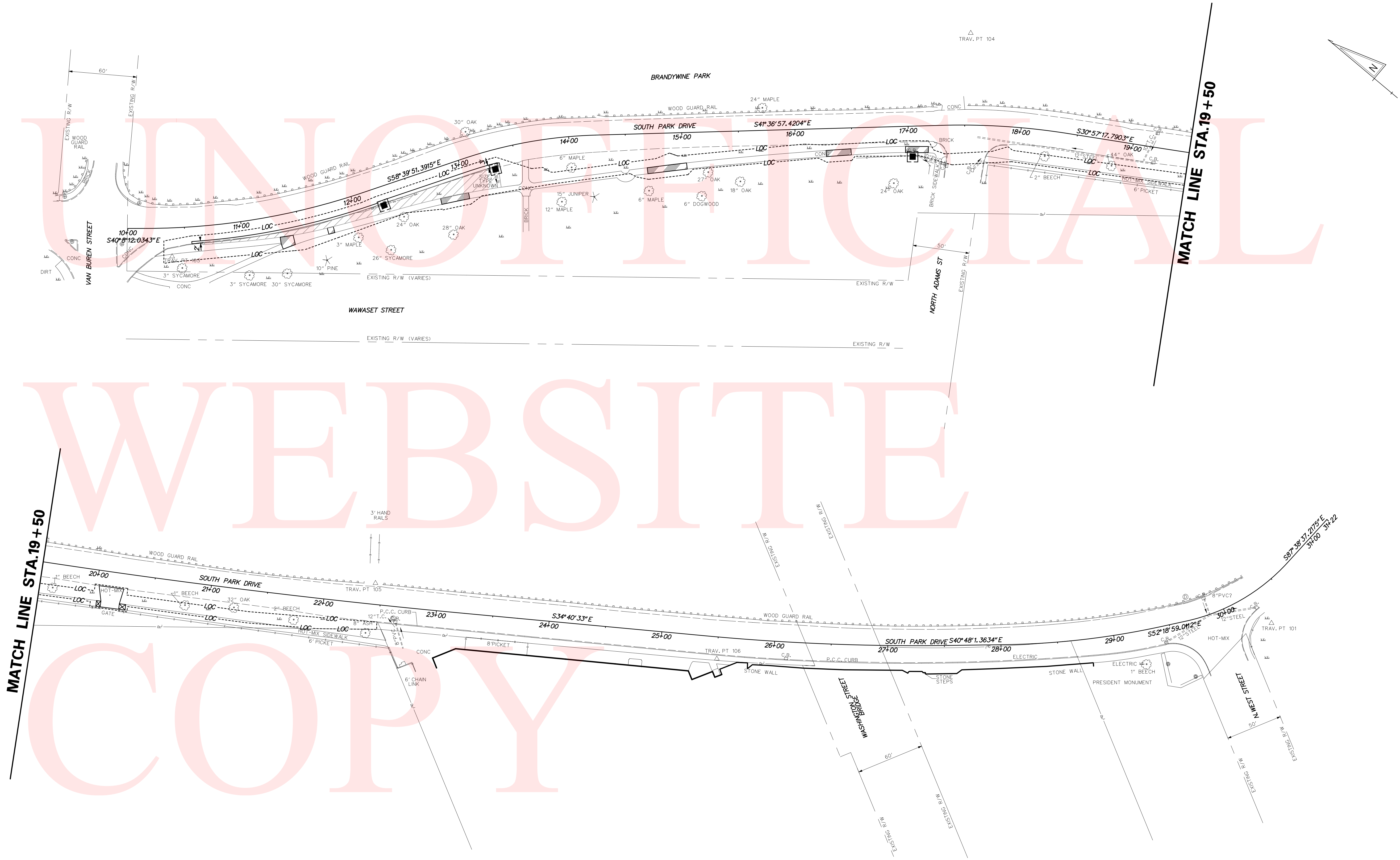
BRIDGE NO.
DESIGNED BY: LB
CHECKED BY: JMH

N/A

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

CS-01

SHEET NO.
12
TOTAL SHTS.
16



3/27/2012
...\\Final Plan\\CS001_Southpark.dgn



DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



SOUTH PARK DRIVE
LIGHTING IMPROVEMENTS,
CITY OF WILMINGTON

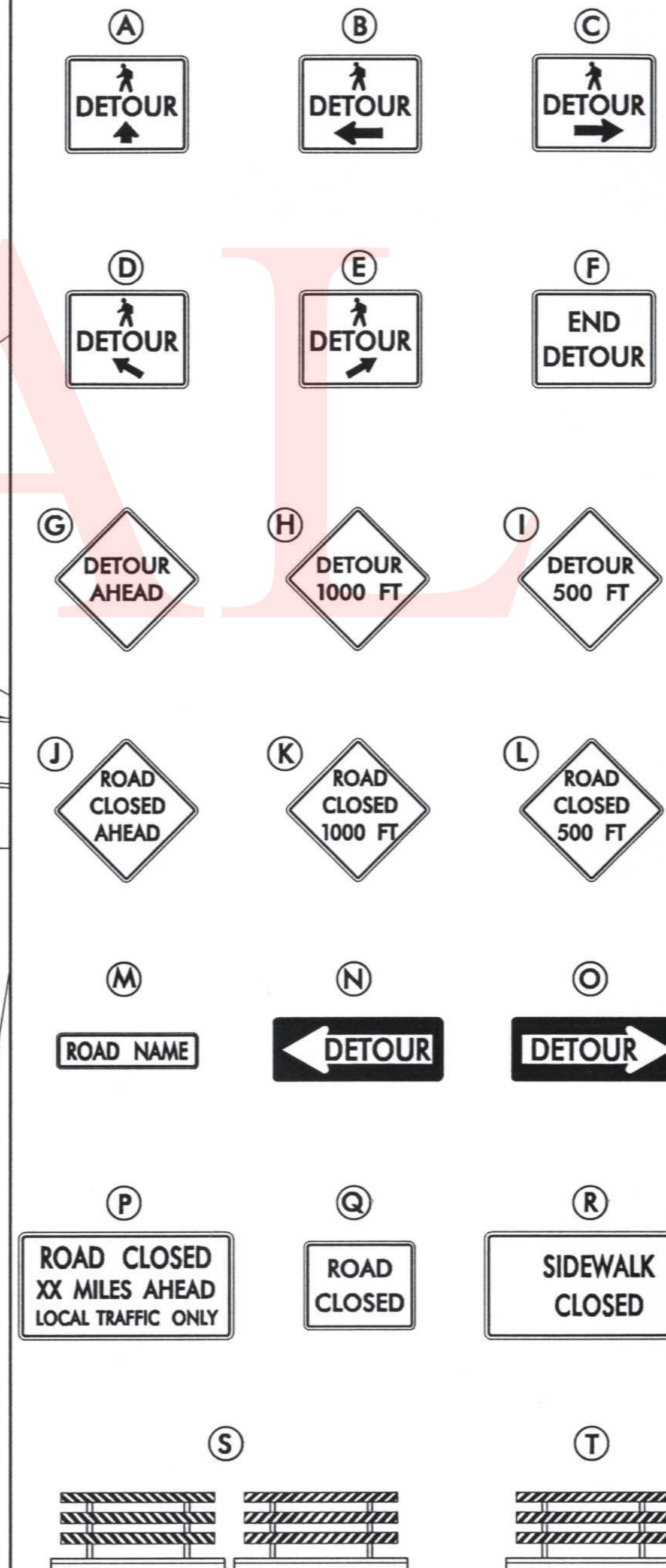
CONTRACT
T201020005
COUNTY
NEW CASTLE

BRIDGE NO.	NA
DESIGNED BY: LB	
CHECKED BY: JMH	

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

CS-02

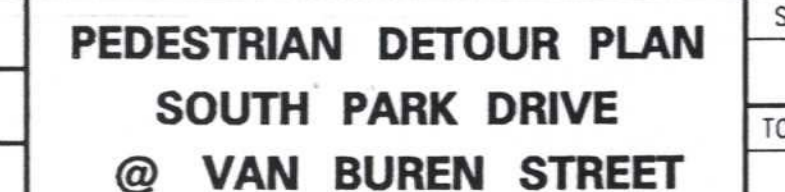
SHEET NO.	13
TOTAL SHTS.	16



GENERAL NOTES

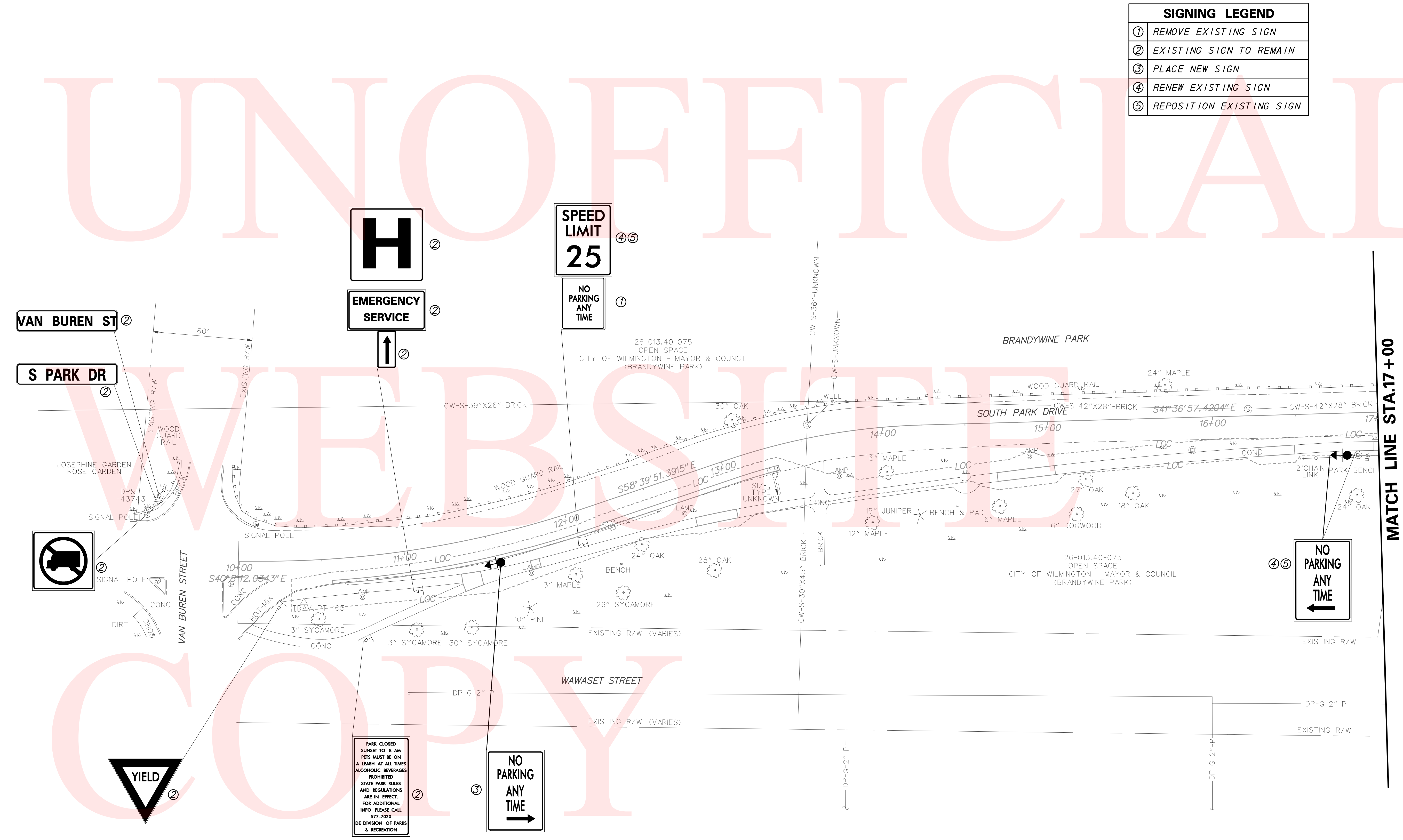
1. ALL DETOUR SIGNING INCLUDING, TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE TO THE DE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
2. THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE- MUTCD PART 6) FOR LIGHTS, BARRICADES AND SIGNS.(AS PER LATEST REVISION)
3. FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WILL PREVAIL.
4. SIGNS J THROUGH L AND P THROUGH R, (THE WORD (ROAD) SHOULD BE CHANGED TO RAMP, R/R OR BRIDGE WHERE APPLICABLE.
5. WARNING SIGNS SHOULD BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT SHEETING.
6. "S" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF ROADWAY.
7. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

APPROVED
TRAFFIC ENGINEER [Signature] DATE: 2/1/12

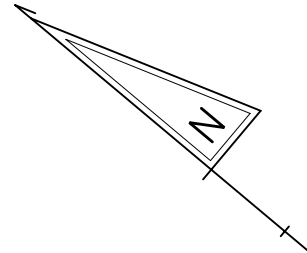


SHEET NO.	14
TOTAL SHTS.	16

UNOFFICIAL



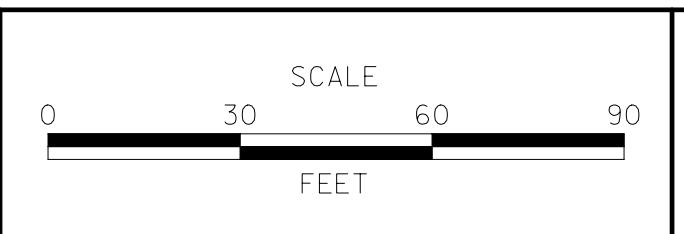
SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN



MATCH LINE STA.17+00

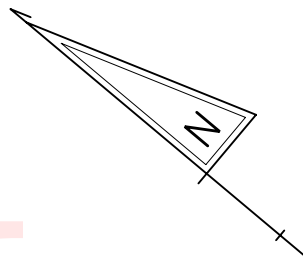
3/27/2012
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ADDENDUMS / REVISIONS	



CONTRACT	BRIDGE NO.	NA
T201020005	DESIGNED BY: LB	
COUNTY	CHECKED BY: JMH	
NEW CASTLE		

SS-01
SHEET NO.
15
TOTAL SHTS.
16



SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

