THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY UNITS

CONSTRUCTION PLANS FOR:

HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT NUMBER: T201200102

FEDERAL AID PROJECT NUMBER: ESTP- N031 (07)

COUNTY: NEW CASTLE M.R. #: 031

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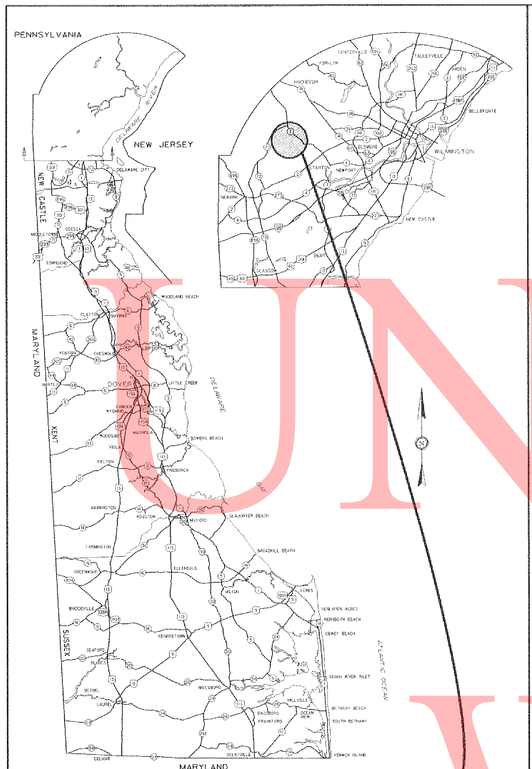
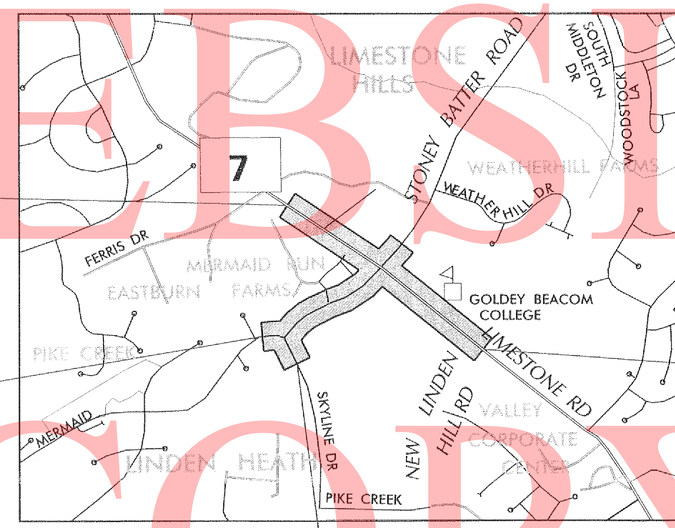


GENERAL LOCATION OF CONTRACT



END CONTRACT STATION 183+00

LIMIT OF CONTRACT STATION 701+00

BEGIN CONTRACT STATION 163+40

LIMIT OF CONTRACT STATION 510+75

DESIGN DESIGNATION – SR 7 LIMESTONE ROAD

FUNCTIONAL CLASS: PRINCIPAL ARTERIAL		D.H.V. PROJECTED: 2662	YEAR: 2040
TYPE OF CONSTRUCTION: SAFETY		DESIGN SPEED: 50 M.P.H.	
A.A.D.T. CURRENT: 31148	YEAR: 2012	TRUCKS: 8 %	
A.A.D.T. PROJECTED: 44000	YEAR: 2040	DIRECTION OF DISTRIBUTION: 55%	

DESIGN DESIGNATION – SKYLINE DRIVE

FUNCTIONAL CLASS: LOCAL		D.H.V. PROJECTED: 270	YEAR: 2040
TYPE OF CONSTRUCTION: SAFETY		DESIGN SPEED: 35 M.P.H.	
A.A.D.T. CURRENT: 1824	YEAR: 2012	TRUCKS: 8 %	
A.A.D.T. PROJECTED: 3000	YEAR: 2040	DIRECTION OF DISTRIBUTION: 60 %	

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TOTAL SHEETS: 51

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME
8310108	DELAWARE STATE ROUTE 7 MILL CREEK TO NORTH OF ROUTE 72
22-011-03	SR 7, LIMESTONE RD FROM ARUNDEL TO N283, STONEY BATTER ROAD

RECOMMENDED

SQUAD MANAGER, CONSTRUCTION — DATE 10-2-13

GROUP ENGINEER, CONSTRUCTION — DATE 10/2/13

ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS (CONSTRUCTION) — DATE

RECOMMENDED
Vincent W. Davis
STORMWATER ENGINEER
DATE 20 Sep 2013
VINCENT W. DAVIS REGISTERED No. 12899 DELAWARE PROFESSIONAL ENGINEER
SEAL

RECOMMENDED
Darren M. O'Neill
SQUAD MANAGER, TRANSPORTATION SOLUTIONS (PROJECT DEVELOPMENT OR BRIDGE DESIGN)
DATE October 9, 2013
DARREN M. O'NEILL REGISTERED No. 10857 DELAWARE PROFESSIONAL ENGINEER
SEAL

RECOMMENDED
BRIDGE DESIGN ENGINEER
DATE
SEAL

RECOMMENDED
Darren M. O'Neill
GROUP ENGINEER, PROJECT DEVELOPMENT
DATE September 16, 2013
DARREN M. O'NEILL REGISTERED No. 10857 DELAWARE PROFESSIONAL ENGINEER
SEAL

RECOMMENDED
Mark C. Tusch
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS
DATE 10/9/13
MARK CHRISTOPHER TUSCH REGISTERED No. 10803 DELAWARE PROFESSIONAL ENGINEER
SEAL

APPROVED
Robert B. McCleary
CHIEF ENGINEER
DATE 10/9/13
ROBERT BRIAN McCLEARY REGISTERED No. 8567 DELAWARE PROFESSIONAL ENGINEER
SEAL

LAST REVISED: 8/7/2008
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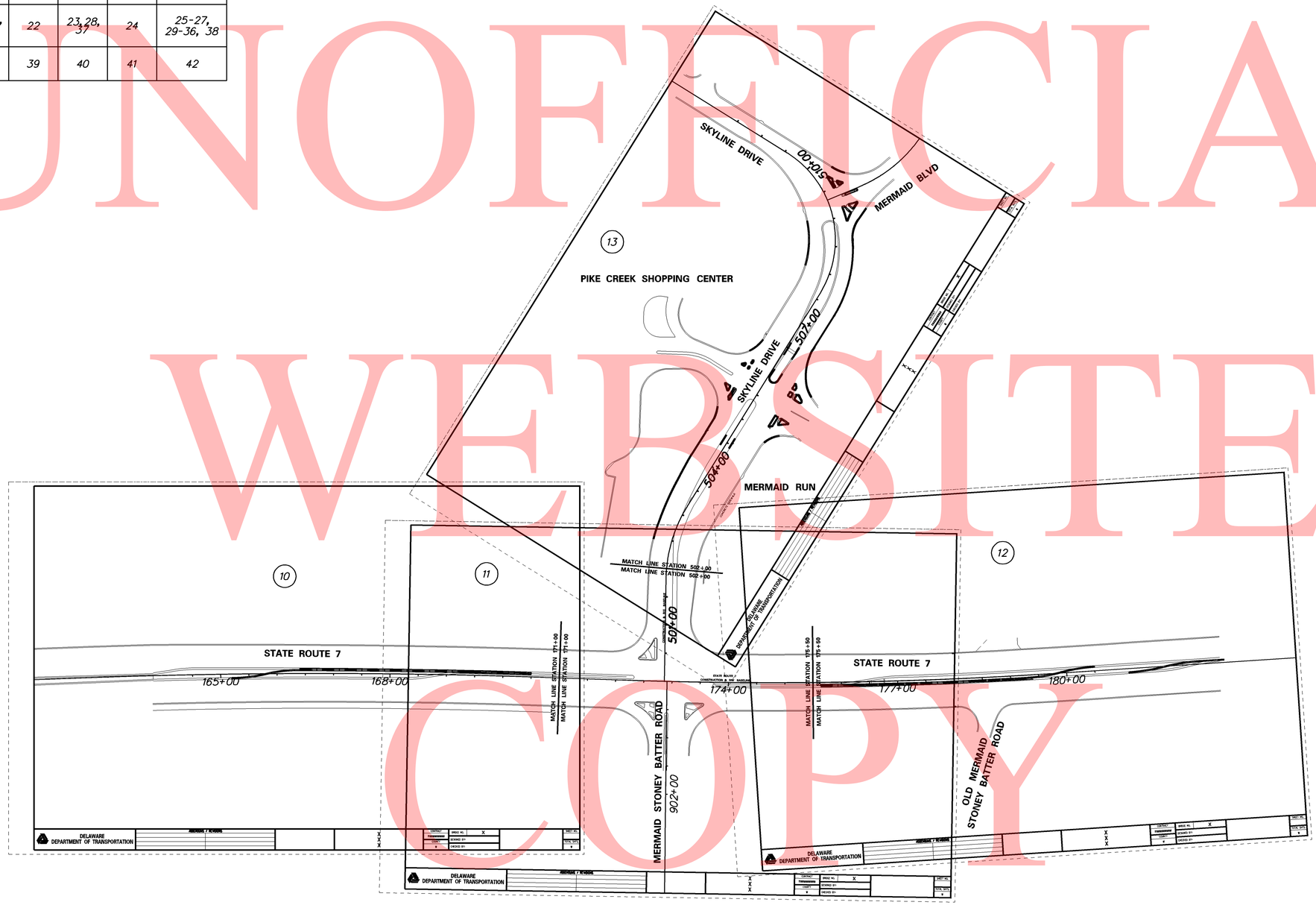

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 100 200 300 FEET

HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201200102	DESIGNED BY: BLK	
COUNTY	CHECKED BY: DMO	
NC		

PLAN SHEET INDEX

SHEET NO. 2

TOTAL SHTS. 51

EXISTING SYMBOLS

DRAINAGE

	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
C.B. / D.I.	DRAINAGE INLET
J.B.	DRAINAGE JUNCTION BOX
	DRAINAGE MANHOLE
SIZE/TYPE LABEL	DRAINAGE PIPE AND FLOW ARROW
	DRAINAGE PIPE HEADWALL
	RIPRAP - AREA FEATURE
	RIPRAP - LINEAR FEATURE

MANMADE ROADSIDE FEATURES

	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
(TYPE LABEL)	CURB
(TYPE LABEL)	CURB AND GUTTER
	FENCE - CHAINLINK OR STRANDED
	FENCE - STOCKADE OR SPLIT RAIL
FP	FLAG POLE
	GUARDRAIL - STEEL BEAM
	GUARDRAIL - WIRE ROPE
LAMP	LAMP AND POST - RESIDENTIAL
MB	MAILBOX
PM	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
WL	DELINEATED WETLAND BOUNDARY LINE
	WOODS LINE BOUNDARY

RIGHT-OF-WAY SYMBOLS

C.M.	PROPERTY MARKER - CONCRETE MON.
I.P.	PROPERTY MARKER - IRON PIPE
100+00	HISTORIC RIGHT-OF-WAY BASELINE
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
EASEMENT TYPE	EXISTING EASEMENT
DA	EXISTING DENIAL OF ACCESS
R/W-DA	EXISTING R/W & DENIAL OF ACCESS

SURVEY CONTROL & MONUMENTATION

B.M.	SURVEY BENCHMARK LOCATION
T.P.	SURVEY TIE POINT LOCATION
	SURVEY TRAVERSE POINT
	POINT OF CURVATURE OR TANGENCY
	POINT OF INTERSECTING TANGENTS

UTILITY

	SOIL BORING LOCATION
	UTILITY TEST HOLE LOCATION
TV	CABLE TV DISTRIBUTION BOX
E	ELECTRIC MANHOLE
EM	ELECTRIC METER
E	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
G	GAS MANHOLE
G.M.	GAS METER
G.V.	GAS VALVE
G.P.	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
S	SANITARY SEWER MANHOLE
S.V.	SANITARY SEWER VALVE
VENT	SANITARY SEWER VENT OR CLEANOUT
S.D.F.	SEPTIC DRAIN FIELD
B	TELEPHONE BOOTH
T	TELEPHONE MANHOLE
T	TELEPHONE TEST POINT
J.W.	TRAFFIC - CONDUIT JUNCTION WELL
	TRAFFIC - LIGHT POLE AND BASE
	TRAFFIC - PEDESTRIAN POLE & BASE
	TRAFFIC - SIGNAL CABINET & BASE
	TRAFFIC - SIGNAL POLE AND BASE
U	UTILITY BOX
	UTILITY POLE GUY WIRE ANCHOR
	UTILITY POLE
F.H.	WATER - FIRE HYDRANT
W.M.	WATER METER
W.V.	WATER VALVE
WELL	WELL HEAD
?	MANHOLE - UNDETERMINED OWNER

UTILITY COMPANY FACILITIES

NCC-S	NEW CASTLE COUNTY SEWER
DP-G	DELMARVA POWER - GAS
AW-W	ARTESIAN WATER COMPANY
COM-C	COMCAST CABLE
COM-C-OH	COMCAST CABLE OVERHEAD
COM-FO	COMCAST CABLE - FIBER OPTIC
DP-E	DELMARVA POWER - ELECTRIC
DP-E-OH	DELMARVA POWER- ELECTRIC OVERHEAD
VER-C-OH	VERIZON - CABLE
VER-FO	VERIZON - FIBER OPTIC

PROPOSED SYMBOLS

CONSTRUCTION

	CONCRETE SAFETY BARRIER - PERMANENT
BFS	BIOFILTRATION SWALE
	BRICK PATTERNED SURFACE
	BUTT JOINT
100+00	CONSTRUCTION BASELINE
CSF	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
CZ	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
HC	HORIZONTAL CLEARANCE
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
LOC	LIMIT OF CONSTRUCTION
MB	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
DA	PROPOSED DENIAL OF ACCESS
PE	PROPOSED PERMANENT EASEMENT
R/W	PROPOSED RIGHT-OF-WAY
R/W-DA	PROPOSED R/W & DENIAL OF ACCESS
TCE	TEMPORARY CONSTRUCTION EASEMENT
100+00	PROPOSED RIGHT-OF-WAY BASELINE

IDENTIFIERS

A/C	ADJUST BY CONTRACTOR
A/O	ADJUST BY OTHERS
B	CONCRETE SAFETY BARRIER
C	CURB OR CURB & GUTTER
C.J.B.	CONVERT TO JUNCTION BOX
C.M.H.	CONVERT TO DRAINAGE MANHOLE
C/O	CURB OPENING
CR	CURB RAMP / TYPE
CR-N	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
CSF	CONSTRUCTION SAFETY FENCE
DI	DRAINAGE INLET
DND	DO NOT DISTURB
ED	ENERGY DISSIPATOR
F	FENCE
FES	FLARED END SECTION
FF/C	FILL WITH FLOWABLE FILL
FS	FILTRATION STRUCTURE
GR	GUARDRAIL
JB	JUNCTION BOX
MH	MANHOLE
M	MONUMENT - RIGHT-OF-WAY
P	PIPE
RL/C	RELOCATE BY CONTRACTOR
RL/O	RELOCATE BY OTHERS
RM/C	REMOVE BY CONTRACTOR
RM/O	REMOVE BY OTHERS
UD	UNDERDRAIN / LENGTH
UOD	UNDERDRAIN OUTLET PIPE

LANDSCAPING

LS	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

TRAFFIC

ITMS-CON	ITMS CONDUIT
SIG-CON	SIGNAL CONDUIT
	CONDUIT JUNCTION WELL
	LUMINAIRE
	PAVEMENT MARKINGS
	PAVEMENT STRIPING
	TRAFFIC SIGN

PAVEMENT SECTION(S)

	OVERLAY PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	DRIVEWAY AND ENTRANCE PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS

UTILITY COMPANY FACILITIES

AW-W	ARTESIAN WATER COMPANY
DP-G	DELMARVA POWER - GAS

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LAST REVISED: 01/08/2013
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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A	SHEET NO.
T201200102	DESIGNED BY: BLK		3
COUNTY			TOTAL SHTS.
NC	CHECKED BY: DMO		51

LEGEND

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
( ) INSIGNIFICANT	NONE
( ) MINOR	CONTRACTOR CERTIFICATION COURSE TRAINING ONLY, AS DEFINED IN SECTION 13 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
(X) 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:

( )	NONE
(X)	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	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.

( )	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.

9. THE DISTURBED AREA FOR THIS PROJECT IS .56 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.

SECTION 200

2. 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 DESIGNEE, 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.

3. 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 300

4. A. THE CONTRACTOR MAY ELECT TO USE ANY OF THE FOLLOWING MATERIALS TO MEET THE REQUIREMENTS OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B':
   a. CRUSHED STONE (PER STANDARD SPECIFICATION 821)
   b. CRUSHED CONCRETE (PER STANDARD SPECIFICATION 821)
   c. HOT-MIX MILLINGS (PER SPECIAL PROVISION 302514 MILLED HOT-MIX BASE COURSE)

   THE CONTRACTOR WILL NOT BE ALLOWED TO MIX DIFFERENT MATERIALS (OR SIMILAR MATERIALS FROM DIFFERENT SOURCES) TO MEET THE REQUIREMENTS OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

   ALL OF THE ABOVE LISTED MATERIALS ARE PERMITTED FOR USE ON THE JOB, PROVIDED THEY ARE SEPARATED INTO APPROVED AREAS. EACH AREA OF BASE COURSE MUST BE CONSTRUCTED USING MATERIALS FROM A SINGULAR SOURCE, FULL DEPTH, IN ORDER THAT PROPER TESTING MAY BE ACCOMPLISHED. THE CONTRACTOR AND DELDOT'S PROJECT ENGINEER SHALL AGREE ON THE LIMITS OF EACH SOURCE OF MATERIAL PRIOR TO PLACEMENT.

   B. THE QUANTITY USED FOR BASE OF EACH OF THE ABOVE LISTED MATERIALS WILL BE THE CONTRACTOR'S CHOICE, WITH THE TOTAL MEETING THE ADVERTISED QUANTITY OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

   C. THE CONTRACTOR MAY ALSO ELECT TO RECYCLE MILLINGS FOR USE IN HOT-MIX AS PERMITTED BY THE STANDARD SPECIFICATIONS. THE CHOICE OF THE QUANTITY OF MILLINGS USED FOR THIS PURPOSE, OR FOR BASE COURSE, LIES WITH THE CONTRACTOR. ALL MILLING MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR.

   D. HOT-MIX MILLINGS MAY BE GENERATED FROM THE FOLLOWING SOURCES:
   a. MATERIAL MADE AVAILABLE WHEN MILLED ON THIS CONTRACT UNDER ITEM 760000.
   b. MATERIAL MILLED ON THIS CONTRACT AT THE CONTRACTOR'S CHOICE UNDER ITEM 202000.
   c. MILLED MATERIAL FURNISHED ON THE JOB FROM THE CONTRACTOR'S YARD OR OTHER OUTSIDE SOURCE.
   ALL MILLED MATERIALS SHALL MEET THE MATERIAL REQUIREMENTS OF ITEM 302514 - MILLED HOT-MIX BASE COURSE.

   E. PAYMENT CLARIFICATION:
   a. SHOULD THE CONTRACTOR ELECT TO MILL PORTIONS OF HOT-MIX SHOWN ON THE PLANS TO BE REMOVED UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT THE COST OF MILLING THIS HOT-MIX WILL BE PAID AS ITEM 202000 - EXCAVATION AND EMBANKMENT. THE MILLINGS GENERATED MAY BE RECYCLED INTO HOT-MIX, UTILIZED FOR BASE COURSE, OR DISPOSED OF TO AN APPROVED SITE. HAULING COSTS FOR DISPOSAL AND/OR RECYCLING ARE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.

   b. SHOULD THE CONTRACTOR ELECT TO TEMPORARILY STOCKPILE MILLINGS ON THE JOB SITE FOR LATER USE, ALL COSTS FOR STOCKPILING AND SUBSEQUENT REHANDLING SHALL BE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.

   c. MILLINGS USED FOR BASE COURSE SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIAL PROVISION 302514 - MILLED HOT-MIX BASE COURSE. NO SEPARATE PAYMENT WILL BE MADE TO FURNISH MILLINGS FROM AN OUTSIDE SOURCE OR TRANSPORT MILLINGS WITHIN THE PROJECT LIMITS. MILLINGS USED FOR BASE COURSE WILL BE PAID IN PLACE AT THE UNIT BID PRICE FOR ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

   d. ALL COSTS TO UTILIZE MILLINGS IN RECYCLED HOT-MIX WILL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE HOT-MIX ITEM USING THE RECYCLED MATERIAL.

   e. SPECIAL PROVISION 302514 - MILLED HOT-MIX BASE COURSE IS PROVIDED TO SPECIFY THE MEANS OF LAY DOWN AND COMPACTION AS WELL AS THE MATERIAL REQUIREMENTS FOR MILLINGS USED AS BASE COURSE. ALL COSTS TO BRING THE MILLINGS INTO COMPLIANCE WITH THE REQUIREMENTS OF ITEM - 302514 MILLED HOT-MIX BASE COURSE ARE INCIDENTAL TO ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'. NO PAYMENT WILL BE MADE FOR ITEM 302514 - MILLED HOT-MIX BASE COURSE. THE QUANTITY OF MILLINGS USED FOR BASE COURSE WILL BE PAID FOR UNDER ITEM 302007 - GRADED AGGREGATE BASE COURSE.

SECTION 600

5. 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 DEPARTMENT WILL VIDEO INSPECT NEW PIPE RUNS TO CONFIRM CONDITION PRIOR TO ACCEPTANCE. PIPE CLEANING PRIOR TO VIDEO INSPECTION AND MAINTENANCE OF TRAFFIC DURING THE VIDEO INSPECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND INCIDENTAL TO THE PIPE ITEM THAT IS BEING VIDEO INSPECTED.

SECTION 700

6. 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.

7. 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.

7. PORTLAND CEMENT CONCRETE CHANNELIZING ISLANDS THAT ARE LESS THAN 75 SQ FT MAY BE POURED MONOLITHICALLY, OR AS DIRECTED BY THE ENGINEER.

8. 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.

Miscellaneous

9. THERE ARE NO ENVIRONMENTAL PERMITS ASSOCIATED WITH THIS PROJECT. AS SUCH, AN ENVIRONMENTAL COMPLIANCE SHEET WAS NOT PREPARED.

10. CONTRACTOR MAY CONTACT DART VINNY DAMAINI AT 576-6094 IF THERE ARE ANY QUESTIONS PERTAINING TO BUS STOP PAD CONSTRUCTION.

11. IN THE EVENT THAT ANY BUS STOPS WILL NOT BE ACCESSIBLE TO PASSENGERS, PLEASE CONTACT DART MIKE ELLER AT 576-6061 OR VINNY DAMIANI AT 576-6094, 2 WEEKS PRIOR TO ANY BUS STOP CLOSURES. PASSENGER NOTICES WILL BE POSTED BY DART DIRECTING RIDERS TO ALTERNATE OR TEMPORARY BUS STOP LOCATIONS.

EARTHWORK SUMMARY

EXCAVATION	
EXCAVATION FROM CROSS SECTIONS	970.00 C.Y.
ROCK EXCAVATION FOR ROADWAY AND TRENCHES	0 C.Y.
TOPSOIL STRIPPING	0 C.Y.
TOTAL EXCAVATION	970.00 C.Y.
EXCAVATION AVAILABLE FOR EMBANKMENT	
EXCAVATION MEETING BORROW TYPE 'A'	0 C.Y.
EXCAVATION MEETING BORROW TYPE 'F'	0 C.Y.
EXCAVATION MEETING TOPSOIL	0 C.Y.
EMBANKMENT REQUIREMENTS	
BORROW TYPE 'A' REQUIRED (INCLUDING UNDERCUT)	0 C.Y.
BORROW TYPE 'F' REQUIRED	0 C.Y.
TOPSOIL REQUIRED	44 C.Y.
MATERIAL BALANCE ("+"= EXCESS, "-"= NEED)	
BORROW TYPE 'A'	0 C.Y.
BORROW TYPE 'F'	0 C.Y.
TOPSOIL	- 44 C.Y.
UNSUITABLE MATERIAL	+ 970 C.Y.

NOTES:
1) THE VALUES LISTED IN THE EARTHWORK SUMMARY ARE APPROXIMATE AND ARE NOT TO BE USED AS A BASIS OF PAYMENT. THE EARTHWORK SUMMARY IS CONSIDERED FOR INFORMATIONAL PURPOSES ONLY.

2) OTHER SOURCES OF EXCAVATION MAY INCLUDE PIPE TRENCH EXCAVATION, STRUCTURE EXCAVATION, UNDERCUT EXCAVATION, STORMWATER MANAGEMENT POND EXCAVATION, ENVIRONMENTAL SITE EXCAVATION, MAINTENANCE OF TRAFFIC EXCAVATION, ETC.

3) UNSUITABLE MATERIALS INCLUDE UNDERCUT SOILS, BITUMINOUS PAVEMENT, ETC.

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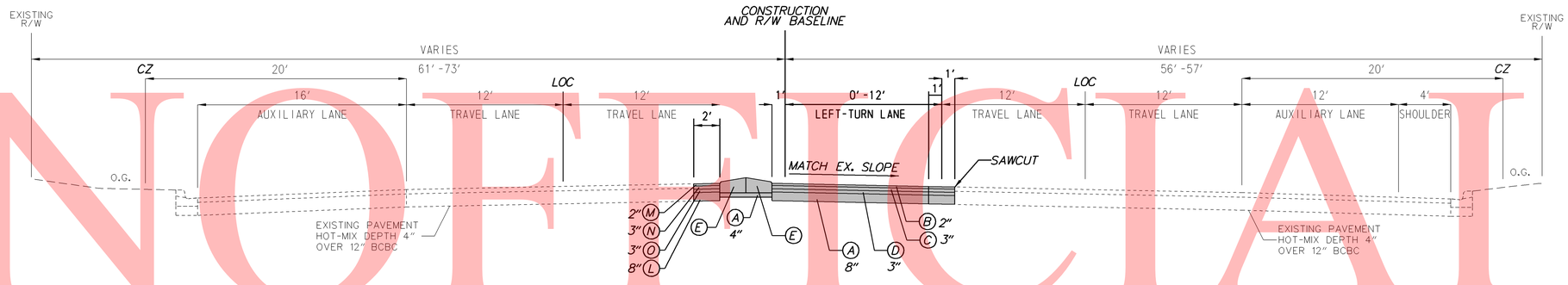
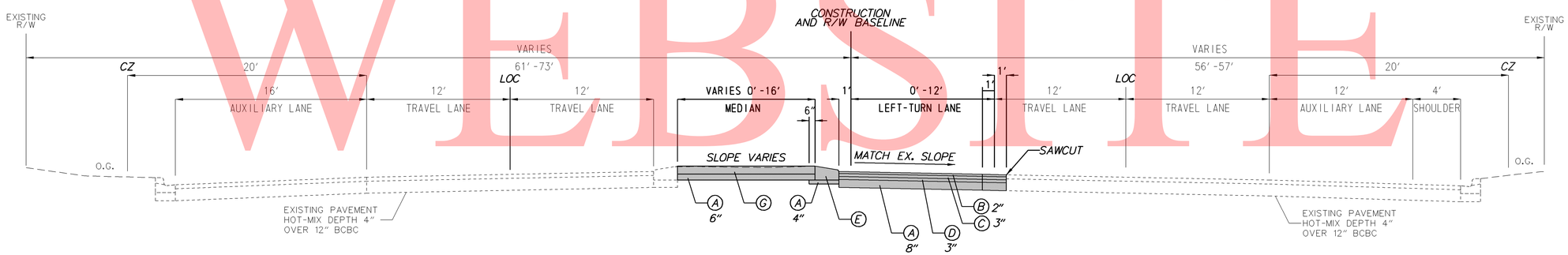


SR 7

STATION 166+40 TO STATION 170+50



SR 7

STATION 165+20 TO STATION 166+40

STATION 181+10 TO STATION 182+80

MATERIAL	LIFT THICKNESS	
	MINIMUM	MAXIMUM
BITUMINOUS CONCRETE, TYPE 'C'	1.25″	2″
BITUMINOUS CONCRETE, TYPE 'B'	2.25″	4″
BITUMINOUS CONCRETE BASE COURSE	3″	6″
GRADED AGGREGATE BASE COURSE	3″	8″

LEGEND

- (A) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (B) ITEM 401807 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22
- (C) ITEM 401816 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS PG 76-22
- (D) ITEM 401819 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)
- (E) ITEM 701011 - P.C.C. CURB, TYPE 2
- (F) ITEM 705001 - P.C.C. SIDEWALK, 4″
- (G) ITEM 705005 - P.C.C. SIDEWALK, 8″
- (H) ITEM 732002 - TOPSOIL, 6″ DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (I) ITEM 760000 - PAVEMENT MILLING, HOT-MIX
- (J) ITEM 701021 - INTEGRAL P.C.C CURB & GUTTER, TYPE 2
- (K) ITEM 701022 -INTEGRAL P.C.C CURB & GUTTER, TYPE 3-8
- (L) ITEM 302008 -GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING
- (M) ITEM 401821 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING
- (N) ITEM 401822 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING
- (O) ITEM 401823 -SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 5
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

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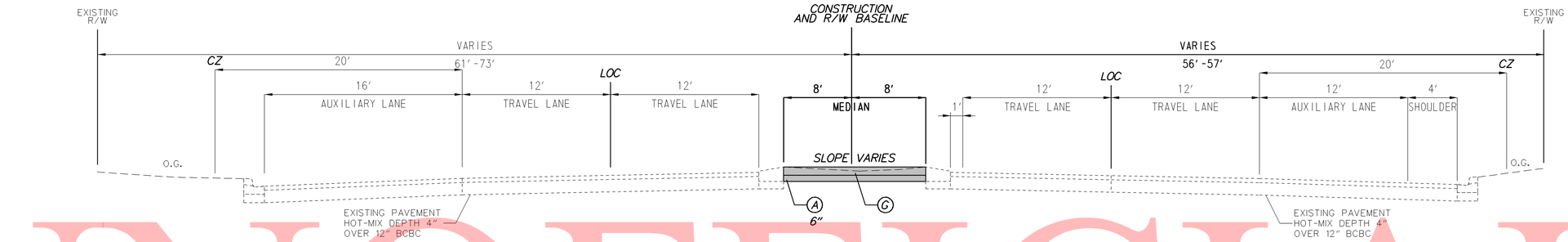
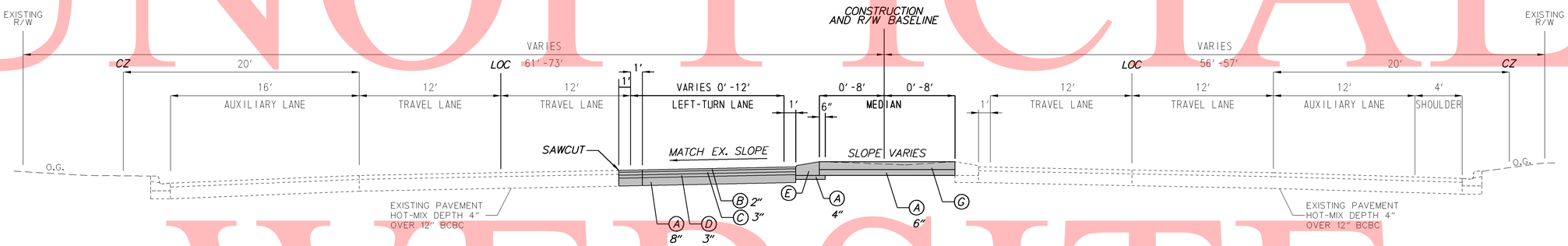


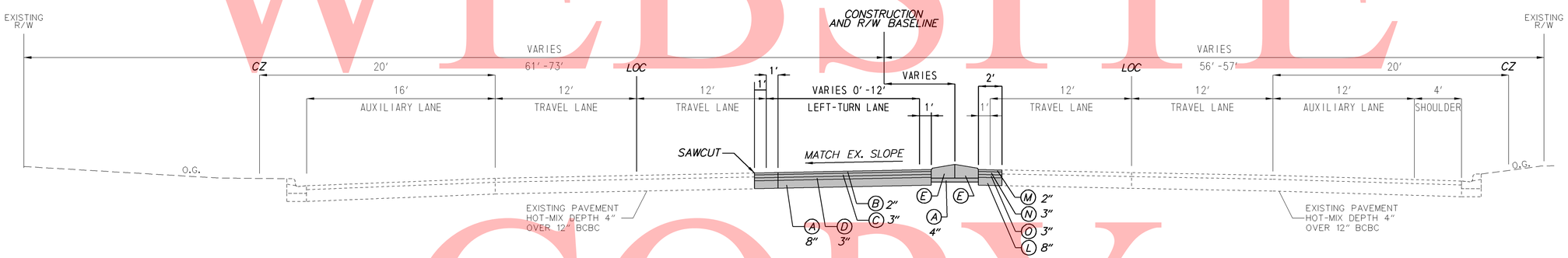
SR 7

STATION 180+50 TO STATION 181+10



SR 7

STATION 179+40 TO STATION 180+50



SR 7

STATION 175+80 TO STATION 179+40

MATERIAL	LIFT THICKNESS	
	MINIMUM	MAXIMUM
BITUMINOUS CONCRETE, TYPE 'C'	1.25″	2″
BITUMINOUS CONCRETE, TYPE 'B'	2.25″	4″
BITUMINOUS CONCRETE BASE COURSE	3″	6″
GRADED AGGREGATE BASE COURSE	3″	8″

LEGEND

- (A) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (B) ITEM 401807 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22
- (C) ITEM 401816 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS PG 76-22
- (D) ITEM 401819 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)
- (E) ITEM 701011 - P.C.C. CURB, TYPE 2
- (F) ITEM 705001 - P.C.C. SIDEWALK, 4″
- (G) ITEM 705005 - P.C.C. SIDEWALK, 8″
- (H) ITEM 732002 - TOPSOIL, 6″ DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (I) ITEM 760000 - PAVEMENT MILLING, HOT-MIX
- (J) ITEM 701021 - INTEGRAL P.C.C CURB & GUTTER, TYPE 2
- (K) ITEM 701022 -INTEGRAL P.C.C CURB & GUTTER, TYPE 3-8
- (L) ITEM 302008 -GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING
- (M) ITEM 401821 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING
- (N) ITEM 401822 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING
- (O) ITEM 401823 -SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING

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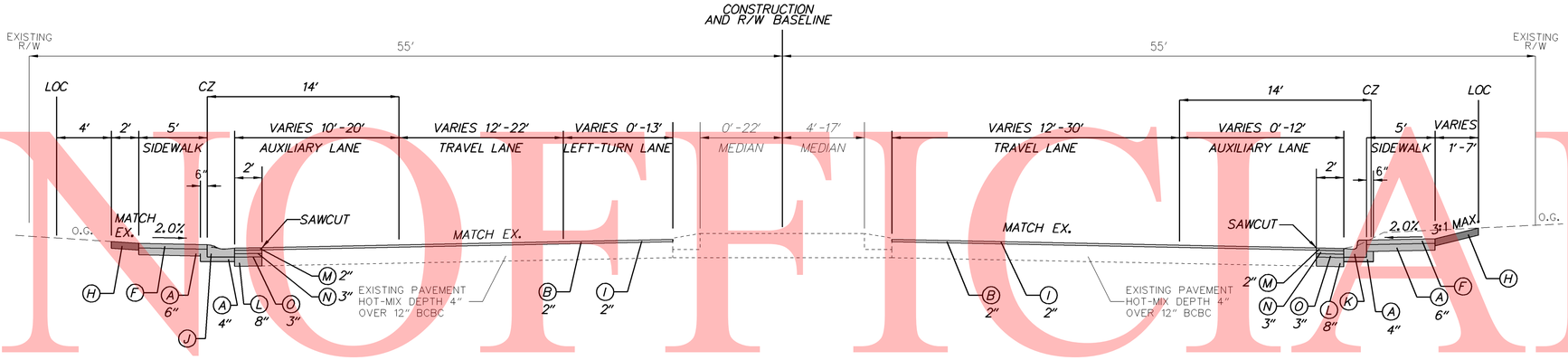
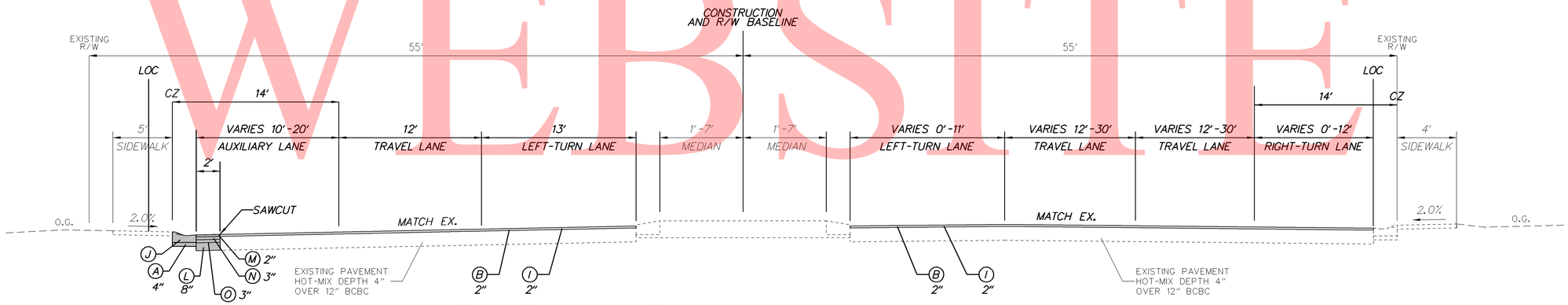
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102 / COUNTY NC	BRIDGE NO. N/A / DESIGNED BY: BLK / CHECKED BY: DMO	TYPICAL SECTIONS	SHEET NO. 6 / TOTAL SHTS. 51



SKYLINE DRIVE

STATION 504+50 TO STATION 510+00



SKYLINE DRIVE

STATION 501+00 TO STATION 504+50

MATERIAL	LIFT THICKNESS	
	MINIMUM	MAXIMUM
BITUMINOUS CONCRETE, TYPE 'C'	1.25"	2"
BITUMINOUS CONCRETE, TYPE 'B'	2.25"	4"
BITUMINOUS CONCRETE BASE COURSE	3"	6"
GRADED AGGREGATE BASE COURSE	3"	8"

LEGEND

- (A) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (B) ITEM 401807 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22
- (C) ITEM 401816 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS PG 76-22
- (D) ITEM 401819 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)
- (E) ITEM 701011 - P.C.C. CURB, TYPE 2
- (F) ITEM 705001 - P.C.C. SIDEWALK, 4"
- (G) ITEM 705005 - P.C.C. SIDEWALK, 8"
- (H) ITEM 732002 - TOPSOIL, 6" DEPTH
- ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (I) ITEM 760000 - PAVEMENT MILLING, HOT-MIX
- (J) ITEM 701021 - INTEGRAL P.C.C CURB & GUTTER, TYPE 2
- (K) ITEM 701022 -INTEGRAL P.C.C CURB & GUTTER, TYPE 3-8
- (L) ITEM 302008 -GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING
- (M) ITEM 401821 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS,PG 64-22, PATCHING
- (N) ITEM 401822 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING
- (O) ITEM 401823 -SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102 / COUNTY NC	BRIDGE NO. N/A / DESIGNED BY: BLK / CHECKED BY: DMO	TYPICAL SECTIONS	SHEET NO. 7 / TOTAL SHTS. 51

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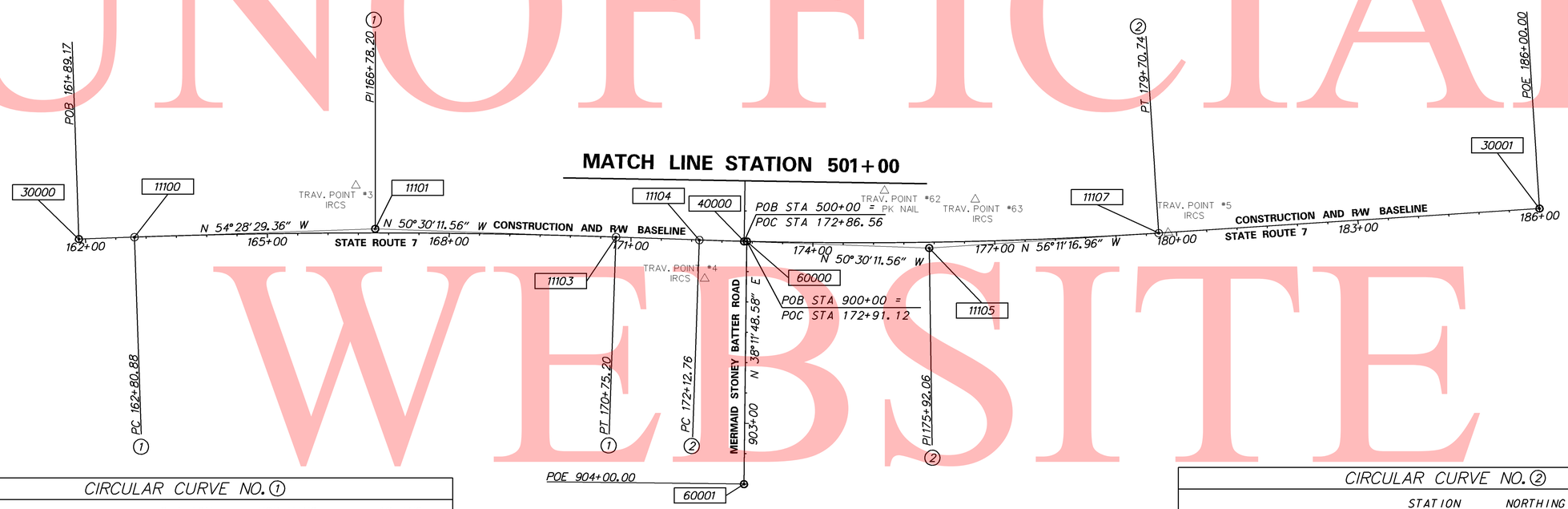
HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
3	166+46.72	-79.22	634067.1109	579102.3121	290.33
4	172+23.56	62.27	634538.8286	578739.7698	284.90
5	179+86.57	0.13	634945.1004	578087.6495	280.43
62	175+19.07	-86.89	634604.6832	578415.8339	273.32
63	176+69.98	-70.35	634707.0728	578305.8429	280.49

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
30000	161+89.17	0.00	633859.5046	579519.3178
30001	186+00.00	0.00	635286.3380	577577.9071
40000	172+86.56	0.00	634530.5253	578651.3974
60000	172+91.12	0.00	634533.3891	578647.8515
60001	904+00.00	0.00	634847.7456	578895.1975



CIRCULAR CURVE NO. (1)

	STATION	NORTHING	EASTING
Element: Circular			
PC (11100)	162+80.88	633912.7935	579444.6789
PI (11101)	166+78.20	634143.6607	579121.3157
CC (11102)		643238.9484	586103.1459
PT (11103)	170+75.20	634396.3703	578814.7194
Radius:	11459.16		
Delta:	3°58'17.8000" Right		
Degree of Curvature(Arc):	0°29'59.9994"		
Length:	794.32		
Tangent:	397.32		
Chord:	794.16		
Middle Ordinate:	6.88		
External:	6.89		
Tangent Direction:	N 54°28'29.3598" W		
Radial Direction:	N 35°31'30.6402" E		
Chord Direction:	N 52°29'20.4598" W		
Radial Direction:	N 39°29'48.4402" E		
Tangent Direction:	N 50°30'11.5598" W		

CIRCULAR CURVE NO. (2)

	STATION	NORTHING	EASTING
Element: Circular			
PC (11104)	172+12.76	634483.8629	578708.5703
PI (11105)	175+92.06	634725.1111	578415.8793
CC (11106)		628588.8109	573849.6192
PT (11107)	179+70.74	634936.1800	578100.7308
Radius:	7639.44		
Delta:	5°41'05.4000" Left		
Degree of Curvature(Arc):	0°44'59.9990"		
Length:	757.98		
Tangent:	379.30		
Chord:	757.67		
Middle Ordinate:	9.40		
External:	9.41		
Tangent Direction:	N 50°30'11.5598" W		
Radial Direction:	N 39°29'48.4402" E		
Chord Direction:	N 53°20'44.2598" W		
Radial Direction:	N 33°48'43.0402" E		
Tangent Direction:	N 56°11'16.9598" W		

DATUM REFERENCE:
HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83/2007).
VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88/2009 MODELED.

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 100 200 300 FEET

HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201200102	DESIGNED BY: BLK	
COUNTY		
NC	CHECKED BY: DMO	

HORIZONTAL AND VERTICAL CONTROL

SHEET NO. 8
TOTAL SHTS. 51

CIRCULAR CURVE NO. 3

		STATION	NORTHING	EASTING
Element: Circular				
PC	(12000)	501+82.76	634387.3700	578537.7862
PI	(12002)	502+49.96	634333.4105	578494.9628
CC	(12001)		634541.7863	578343.2146
PT	(12003)	503+17.16	634309.2138	578430.4647
Radius:		248.40		
Delta:		31° 00′ 00.0111″ Right		
Degree of Curvature(Arc):		23° 03′ 57.3616″		
Length:		134.40		
Tangent:		68.89		
Chord:		132.76		
Middle Ordinate:		9.03		
External:		9.38		
Tangent Direction:		S 38° 26′ 10.6399″ W		
Radial Direction:		N 51° 33′ 49.3601″ W		
Chord Direction:		S 53° 56′ 10.6454″ W		
Radial Direction:		N 20° 33′ 49.3490″ W		
Tangent Direction:		S 69° 26′ 10.6510″ W		

CIRCULAR CURVE NO. 5

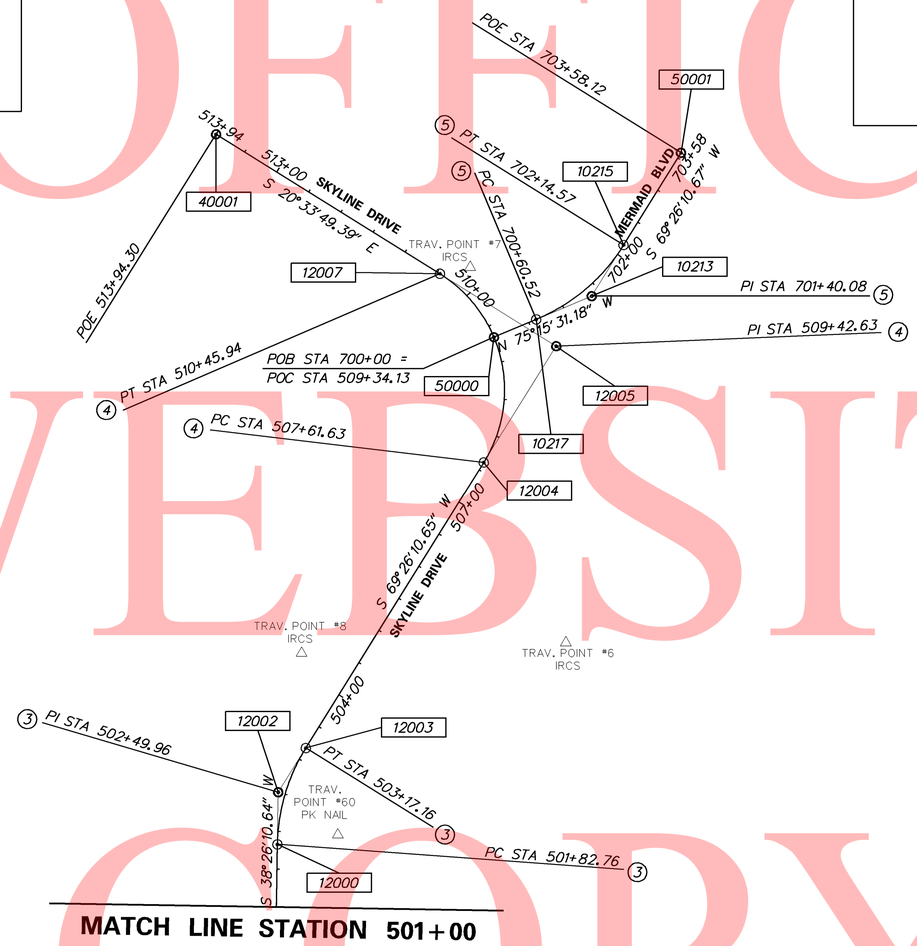
		STATION	NORTHING	EASTING
Element: Circular				
PC	(10217)	700+60.52	634045.3529	577844.3922
PI	(10213)	701+40.08	634065.5967	577767.4539
CC	(10216)		633803.5818	577780.7783
PT	(10215)	702+14.57	634037.6524	577692.9661
Radius:		250.00		
Delta:		35° 18′ 18.1461″ Left		
Degree of Curvature(Arc):		22° 55′ 05.9225″		
Length:		154.05		
Tangent:		79.56		
Chord:		151.62		
Middle Ordinate:		11.77		
External:		12.35		
Tangent Direction:		N 75° 15′ 31.1844″ W		
Radial Direction:		N 14° 44′ 28.8156″ E		
Chord Direction:		S 87° 05′ 19.7425″ W		
Radial Direction:		N 20° 33′ 49.3305″ W		
Tangent Direction:		S 69° 26′ 10.6695″ W		

HORIZONTAL / VERTICAL CONTROL DATA

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
6	506+17.92	217.70	634407.3976	578072.4029	260.55
7	510+21.00	31.56	633937.0058	577870.5033	234.23
8	504+21.66	-71.21	634205.8382	578357.6295	259.74
60	502+04.71	79.40	634425.4555	578465.8013	271.95

CONSTRUCTION ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
40001	513+94.30	0.00	633593.8867	578030.7865
50000	509+34.13	0.00	634029.9531	577902.9207
50001	703+58.12	0.00	633987.2310	577558.5638



CIRCULAR CURVE NO. 4

		STATION	NORTHING	EASTING
Element: Circular				
PC	(12004)	507+61.63	634153.0946	578014.3160
PI	(12005)	509+42.63	634089.5186	577844.8489
CC	(12006)		633983.6275	578077.8920
PT	(12007)	510+45.94	633920.0515	577908.4249
Radius:		181.00		
Delta:		90° 00′ 00.0392″ Left		
Degree of Curvature(Arc):		31° 39′ 18.4565″		
Length:		284.31		
Tangent:		181.00		
Chord:		255.97		
Middle Ordinate:		53.01		
External:		74.97		
Tangent Direction:		S 69° 26′ 10.6510″ W		
Radial Direction:		N 20° 33′ 49.3490″ W		
Chord Direction:		S 24° 26′ 10.6314″ W		
Radial Direction:		S 69° 26′ 10.6117″ W		
Tangent Direction:		S 20° 33′ 49.3883″ E		

DATUM REFERENCE:
HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83/91).

VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88/2009 MODELED.

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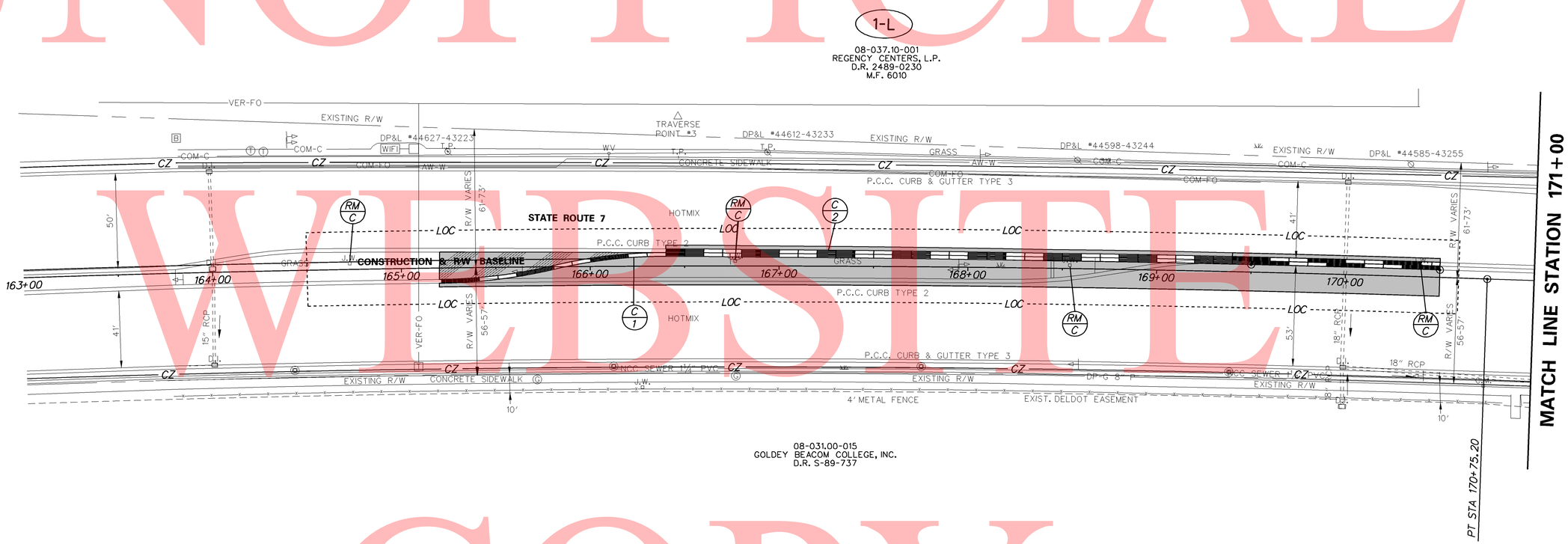
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 100 200 300 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102 / COUNTY NC	BRIDGE NO. N/A / DESIGNED BY: BLK / CHECKED BY: DMO	HORIZONTAL AND VERTICAL CONTROL	SHEET NO. 9 / TOTAL SHTS. 51

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	P.C.C. CURB, TYPE 2	532
2	P.C.C. CURB, TYPE 2	412



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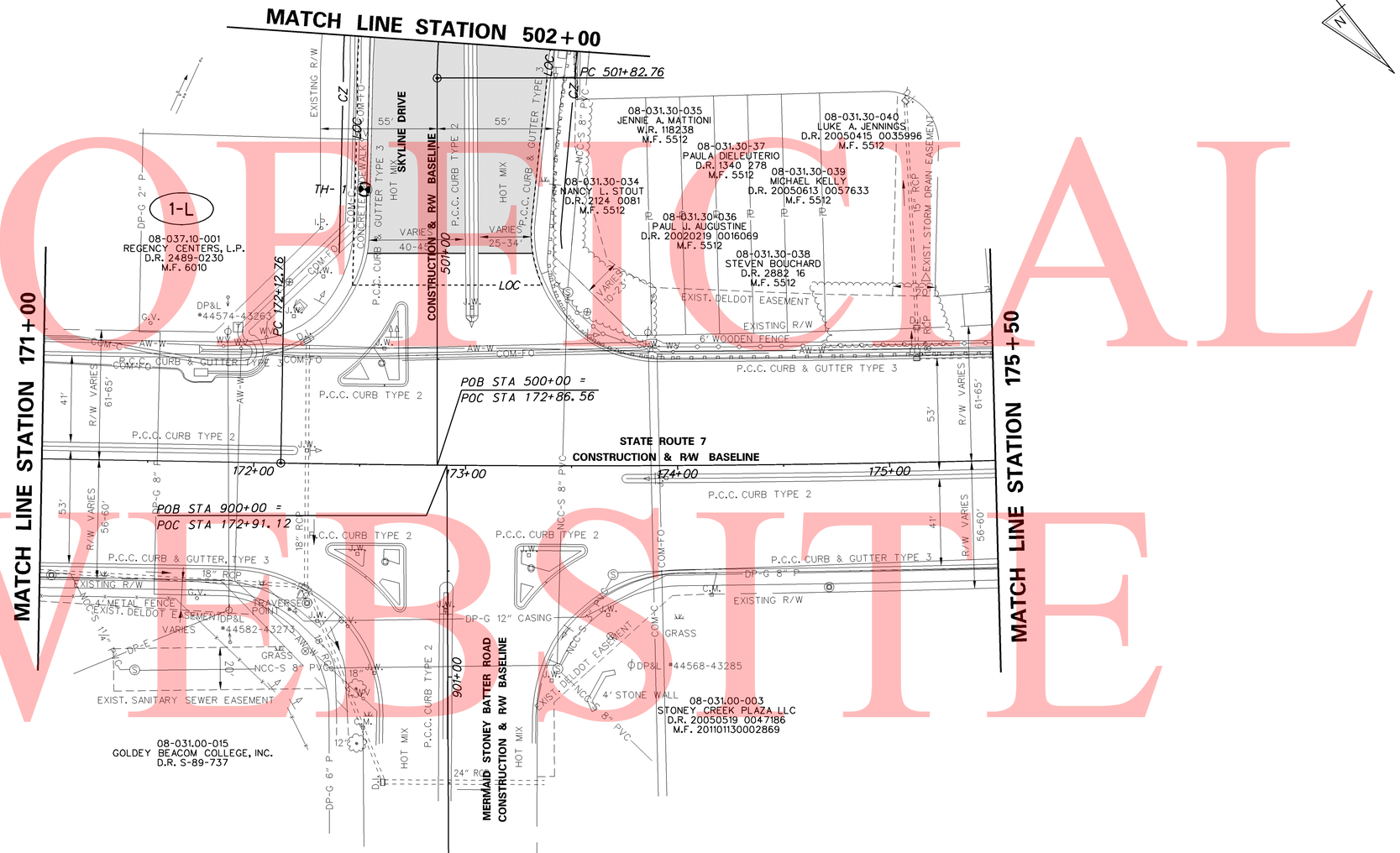
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 10
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
1	ARTESIAN	501+30.2	34.3	281.20	3.62	12 3/4" DUCTILE IRON



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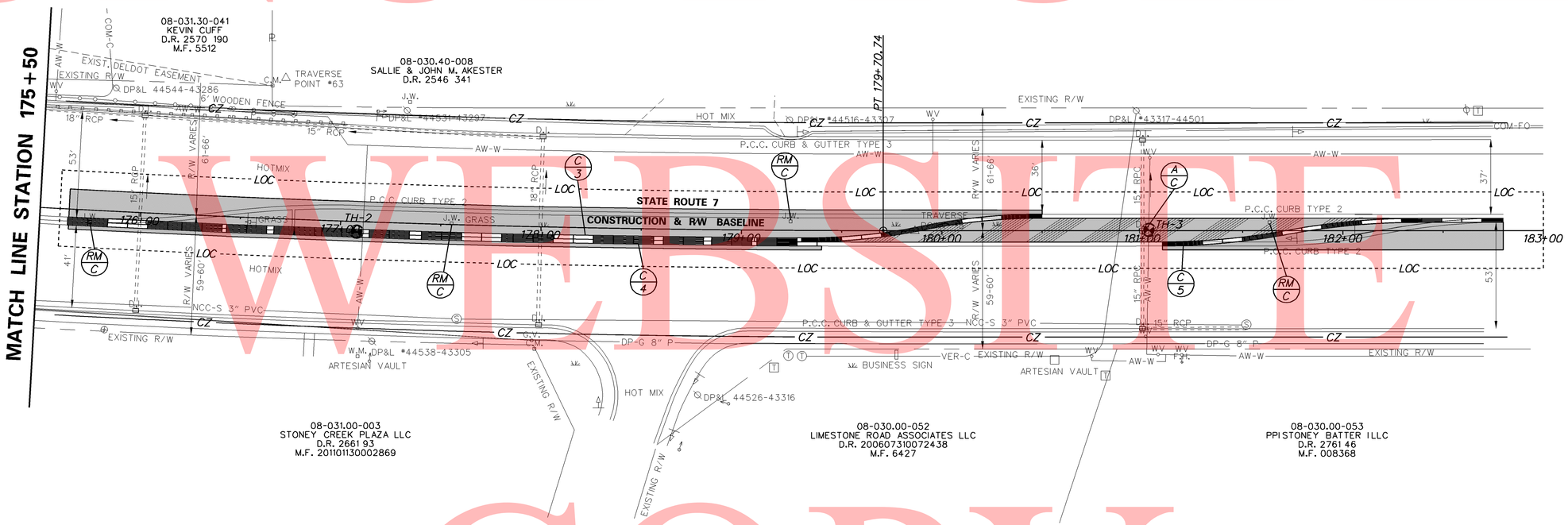
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 11
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
3	P.C.C. CURB, TYPE 2	472
4	P.C.C. CURB, TYPE 2	376
5	P.C.C. CURB, TYPE 2	172

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
2	ARTESIAN	177+08.2	5.0	282.92	6.76	2.5" METALLIC
3	ARTESIAN	181+03.3	.3	279.85	5.50	20.5" STEEL CASING



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 12
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
6	P.C.C. CURB & GUTTER, TYPE 2	262
7	P.C.C. CURB, TYPE 2	21
8	P.C.C. CURB, TYPE 2 *	40
9	P.C.C. CURB, TYPE 2 *	57
10	P.C.C. CURB, TYPE 2 *	25
11	P.C.C. CURB, TYPE 2 *	18
12	P.C.C. CURB, TYPE 2 *	21
13	P.C.C. CURB & GUTTER, TYPE 3-8	32
14	P.C.C. CURB, TYPE 2	25
15	P.C.C. CURB, TYPE 2	21
16	P.C.C. CURB & GUTTER, TYPE 2	31
17	P.C.C. CURB, TYPE 2 *	60
18	P.C.C. CURB, TYPE 2 *	52
19	P.C.C. CURB, TYPE 2	52
20	P.C.C. CURB, TYPE 2 *	32
21	P.C.C. CURB, TYPE 2 *	34
22	P.C.C. CURB, TYPE 2 *	48
23	P.C.C. CURB, TYPE 2	25
24	P.C.C. CURB & GUTTER, TYPE 2	78
25	P.C.C. CURB & GUTTER, TYPE 3-8	207
26	P.C.C. CURB & GUTTER, TYPE 2	79
27	P.C.C. CURB, TYPE 2 *	69
28	P.C.C. CURB, TYPE 2 *	46
29	P.C.C. CURB, TYPE 1-4	53
30	P.C.C. CURB, TYPE 2 *	58
31	P.C.C. CURB, TYPE 2 *	34
32	P.C.C. CURB & GUTTER, TYPE 2	26
33	P.C.C. CURB & GUTTER, TYPE 2	80

* THE COST FOR CONSTRUCTING THIS CURB IS INCIDENTAL TO ITEM 705530- TRIANGULAR CHANNELIZING ISLANDS

NOTE: CURB 19 SHALL BE DEPRESSED AT THE NOSE OF THE MEDIAN WITH A TAPER CURB OF 10' MAX.

DELDOT SWM FACILITY SCHEDULE

NO.	TYPE / DESCRIPTION	LOCATION
144	7 SAND FILTERS	STA. 503+81.17 TO STA. 504+43.00

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
4	ARTESIAN	504+43.5	40.2	258.73	1.90	12 3/4" DUCTILE IRON

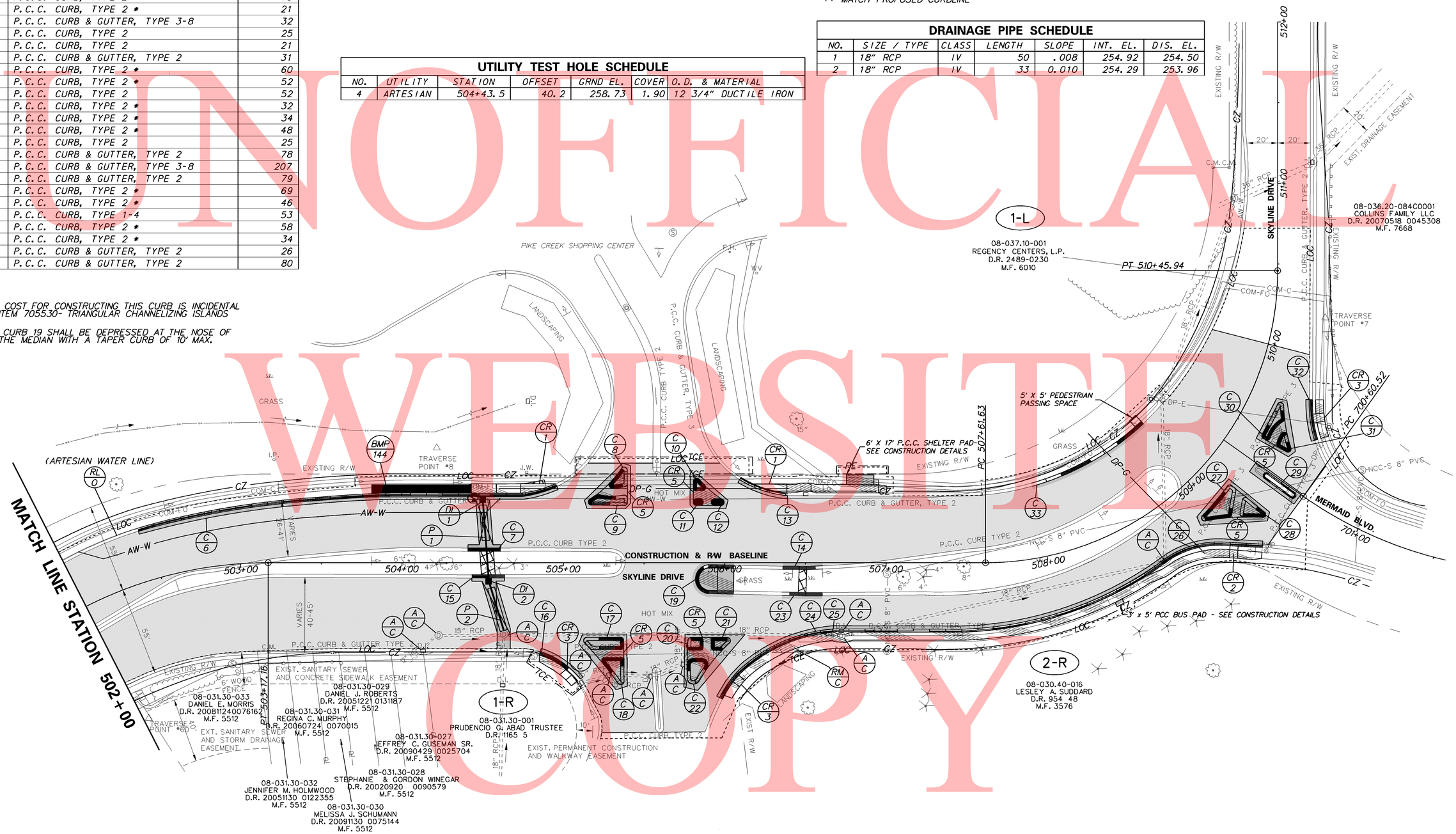
DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
1	504+50.00	++	34" x 24"	1	+	254.92
2	504+53.78	++	34" x 24"	1	+	254.23

\+ MATCH FLOWLINE OF PROPOSED CURB AND GUTTER
++ MATCH PROPOSED CURBLINE

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	18" RCP	IV	50	.008	254.92	254.50
2	18" RCP	IV	33	0.010	254.29	253.96



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 13
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
6000	165+20.00	8.01	634060.17	579256.33
6001	165+81.43	1.21	634091.58	579203.58
6002	166+39.98	- 5.16	634121.89	579152.61
6003	166+40.00	-9.16	634118.72	579150.17
6004	170+50.00	- 4.00	634377.27	578831.65
6005	170+50.00	-8.00	634374.18	578829.11

NOTE:
1. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.

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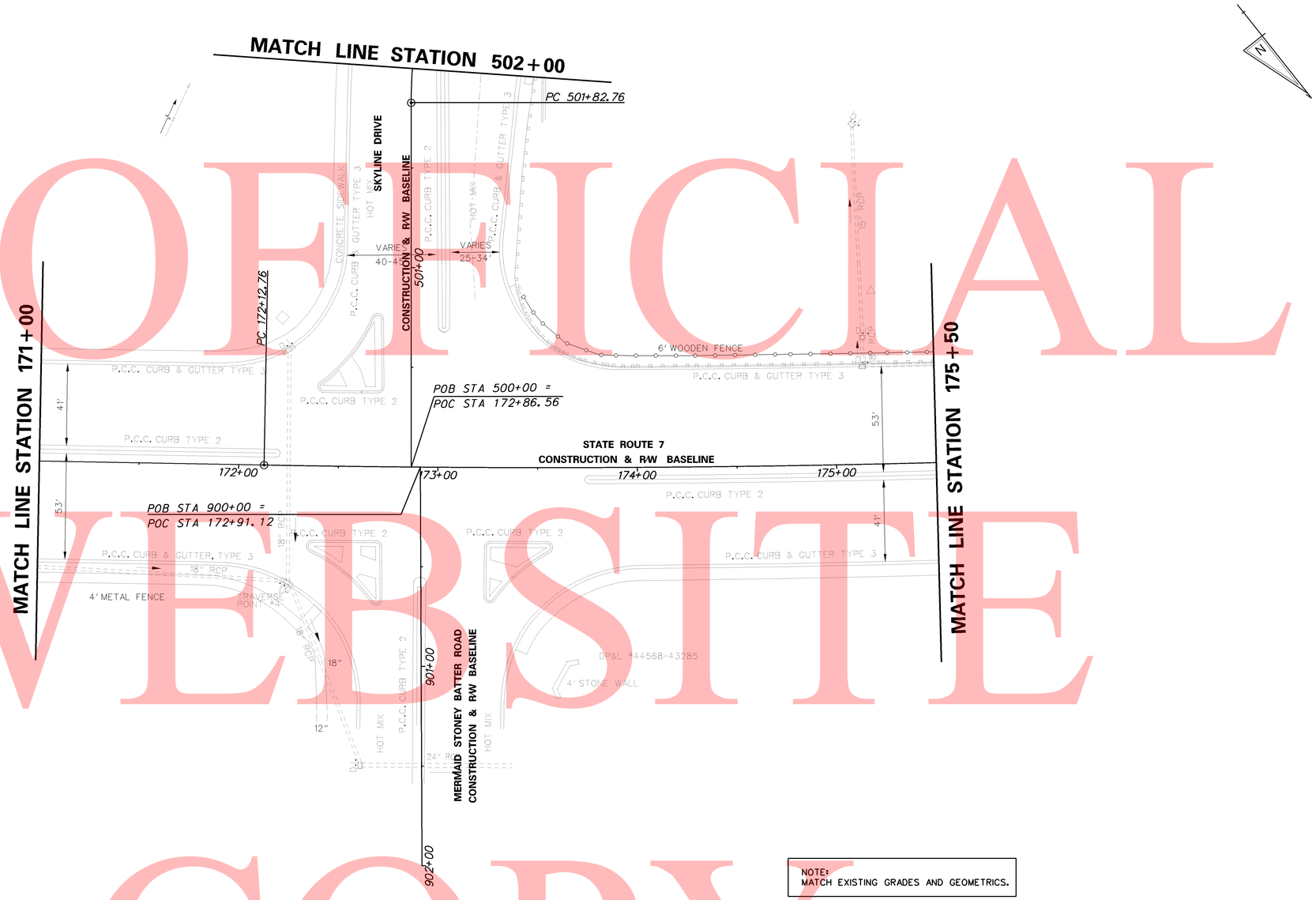
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	GRADES AND GEOMETRICS	SHEET NO. 14
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		



NOTE:
MATCH EXISTING GRADES AND GEOMETRICS.

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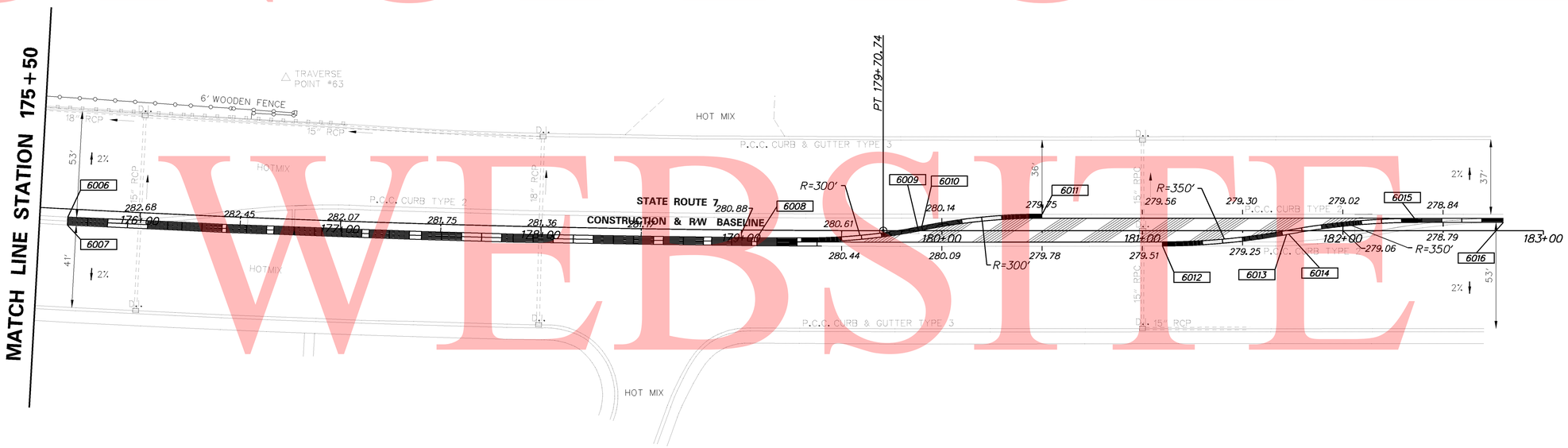
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	GRADES AND GEOMETRICS	SHEET NO. 15
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
6006	175+64.00	4.00	634704.15	578434.89
6007	175+64.00	8.00	634707.35	578437.29
6008	179+07.72	3.81	634904.04	578155.09
6009	179+87.95	- 1.77	634944.29	578085.45
6010	179+90.01	- 2.22	634945.06	578083.49
6011	180+50.00	- 8.23	634973.45	578030.30
6012	181+10.00	7.64	635020.03	577989.28
6013	181+71.88	1.96	635049.74	577934.70
6014	181+72.97	1.76	635050.18	577933.69
6015	182+37.42	- 4.12	635081.16	577876.86
6016	182+80.00	- 4.18	635104.80	577841.45



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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201200102	DESIGNED BY: BLK	
COUNTY	CHECKED BY: DMO	
NC		

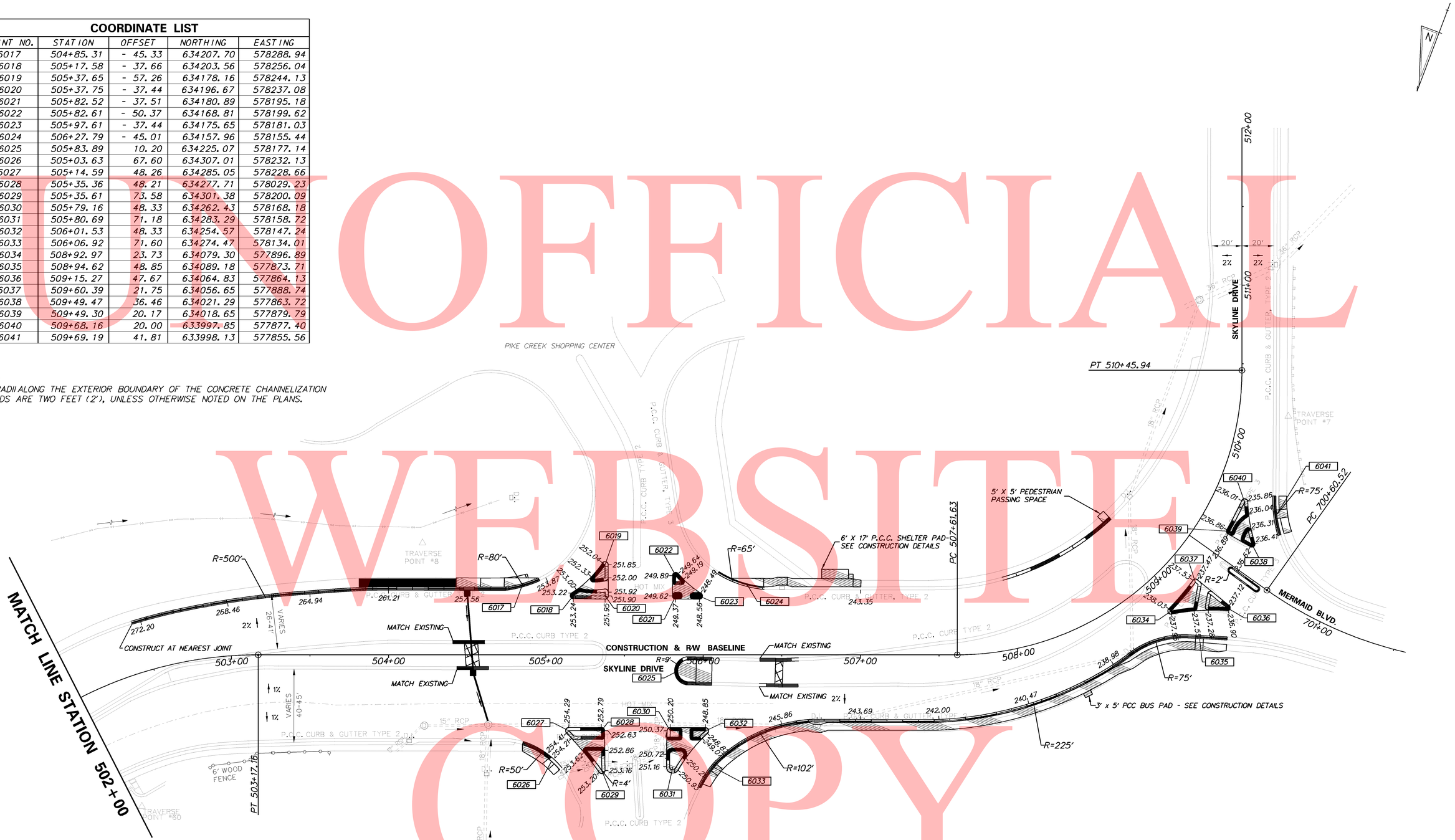
GRADES AND GEOMETRICS

SHEET NO.
16
TOTAL SHTS.
51

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
6017	504+85.31	- 45.33	634207.70	578288.94
6018	505+17.58	- 37.66	634203.56	578256.04
6019	505+37.65	- 57.26	634178.16	578244.13
6020	505+37.75	- 37.44	634196.67	578237.08
6021	505+82.52	- 37.51	634180.89	578195.18
6022	505+82.61	- 50.37	634168.81	578199.62
6023	505+97.61	- 37.44	634175.65	578181.03
6024	506+27.79	- 45.01	634157.96	578155.44
6025	505+83.89	10.20	634225.07	578177.14
6026	505+03.63	67.60	634307.01	578232.13
6027	505+14.59	48.26	634285.05	578228.66
6028	505+35.36	48.21	634277.71	578029.23
6029	505+35.61	73.58	634301.38	578200.09
6030	505+79.16	48.33	634262.43	578168.18
6031	505+80.69	71.18	634283.29	578158.72
6032	506+01.53	48.33	634254.57	578147.24
6033	506+06.92	71.60	634274.47	578134.01
6034	508+92.97	23.73	634079.30	577896.89
6035	508+94.62	48.85	634089.18	577873.71
6036	509+15.27	47.67	634064.83	577864.13
6037	509+60.39	21.75	634056.65	577888.74
6038	509+49.47	36.46	634021.29	577863.72
6039	509+49.30	20.17	634018.65	577879.79
6040	509+68.16	20.00	633997.85	577877.40
6041	509+69.19	41.81	633998.13	577855.56

NOTE:
ALL RADII ALONG THE EXTERIOR BOUNDARY OF THE CONCRETE CHANNELIZATION ISLANDS ARE TWO FEET (2'), UNLESS OTHERWISE NOTED ON THE PLANS.



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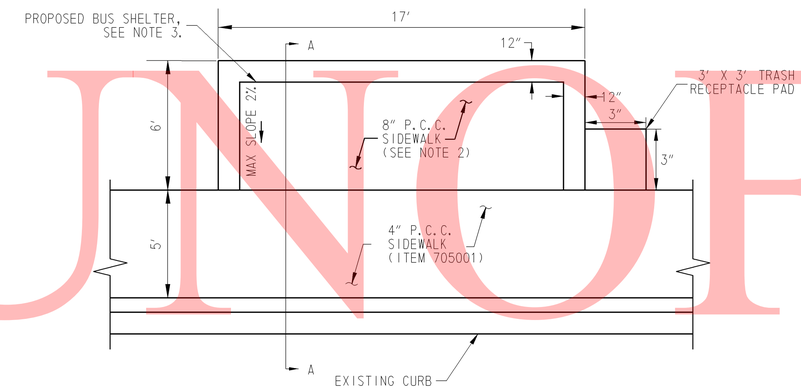
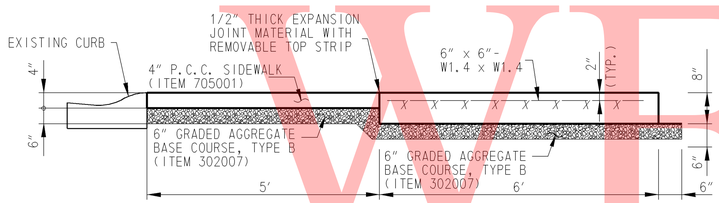
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	GRADES AND GEOMETRICS	SHEET NO. 17
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		



PLAN



SECTION A-A

NOTES:

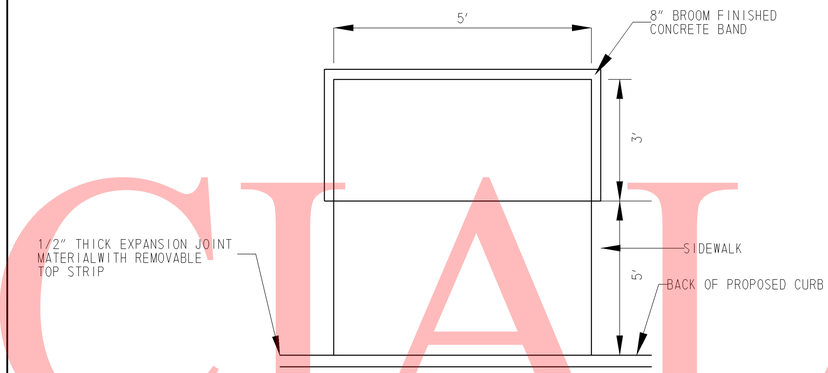
1. SLOPE OF SHELTER AND LANDING PADS SHALL MATCH ADJACENT SIDEWALK.

2. PAYMENT FOR EXPANSION JOINT MATERIAL AND 6" x 6" W1.4 x W1.4 INCIDENTAL TO 8" P.C.C. SIDEWALK (ITEM 705005).

3. DART WILL PROVIDE AND INSTALL BUS SHELTER STRUCTURE AT A LATER DATE.

SHELTER PAD DETAIL

NOT TO SCALE

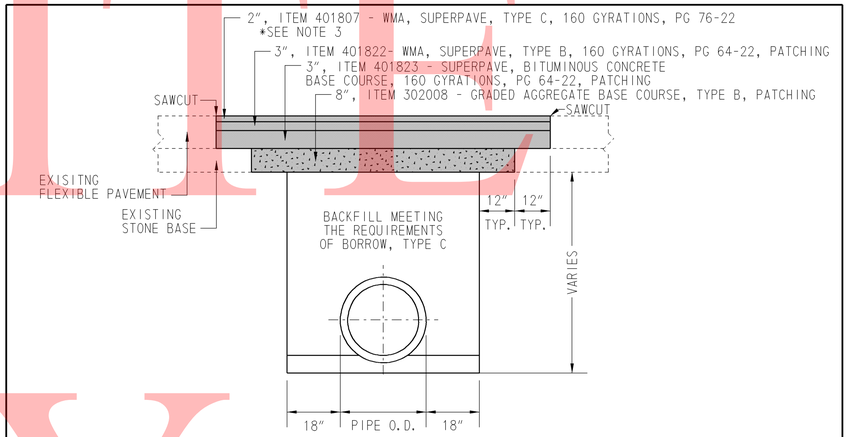


NOTE:

AREA TO BE EXCAVATED WILL BE 1' WIDER THAN THE PAD ON THE LEFT, RIGHT, AND REAR SIDES, UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION PLANS.

BUS PAD DETAIL

NOT TO SCALE



NOTES:

1) SEE STANDARD CONSTRUCTION DETAILS FOR PIPE BEDDING REQUIREMENTS.

2) THIS DETAIL SHOWS THE MINIMUM PAVEMENT PATCH REQUIREMENTS. IF THE EXISTING ROADWAY HAS A HEAVIER CROSS SECTION, THE PROPOSED PAVEMENT PATCH WILL MATCH THE HEAVIER CROSS SECTION, OR AS DIRECTED BY THE ENGINEER.

3) 2" OF ITEM NUMBER 401822- WMA, TYPE B MAY BE USED IN PLACE OF 2" WMA TYPE C IN ORDER TO PATCH THE PAVEMENT SECTION UNTIL THE MILLING AND OVERLAY IN PHASE 4.

FLEXIBLE PAVEMENT PATCH

NOT TO SCALE

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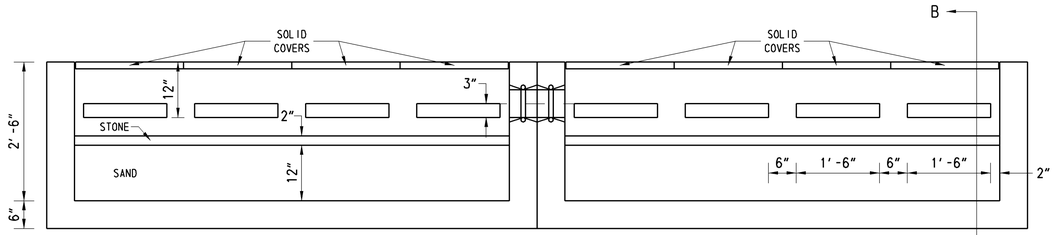
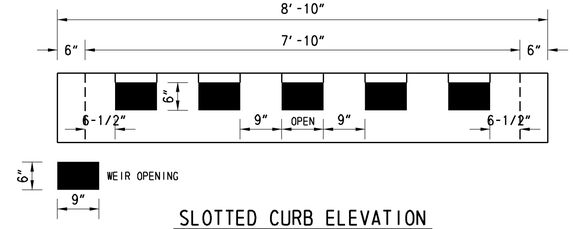
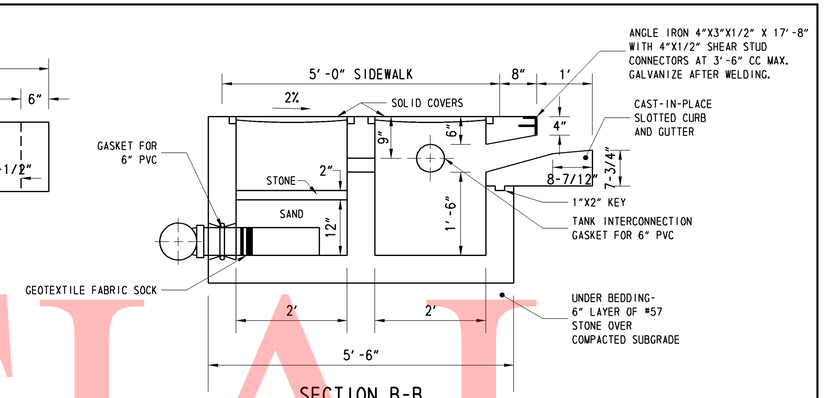
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION DETAILS	SHEET NO. 18
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		



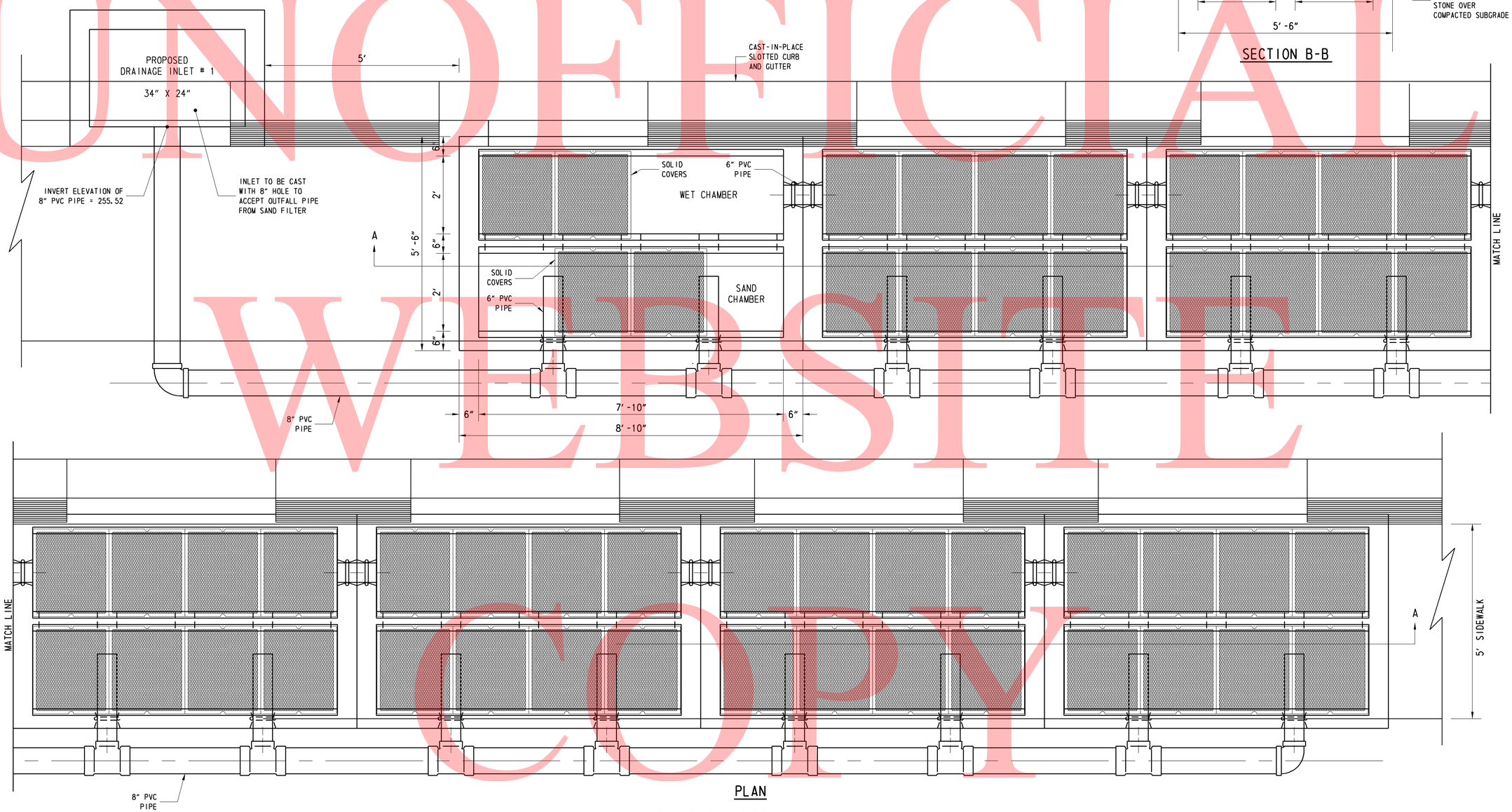
SECTION A-A



SLOTTED CURB ELEVATION



SECTION B-B



PLAN

SAND FILTER DETAIL

NOT TO SCALE

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION DETAILS	SHEET NO. 19
				COUNTY NEW CASTLE	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

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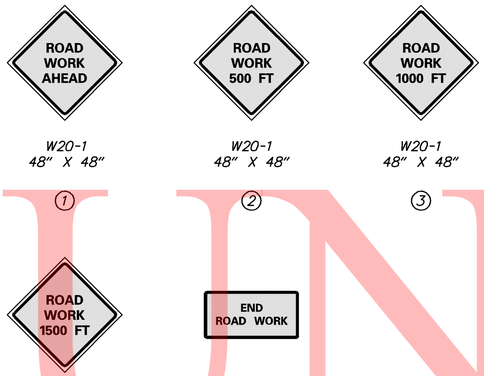
WARNING SIGN LEGEND



NOTES:

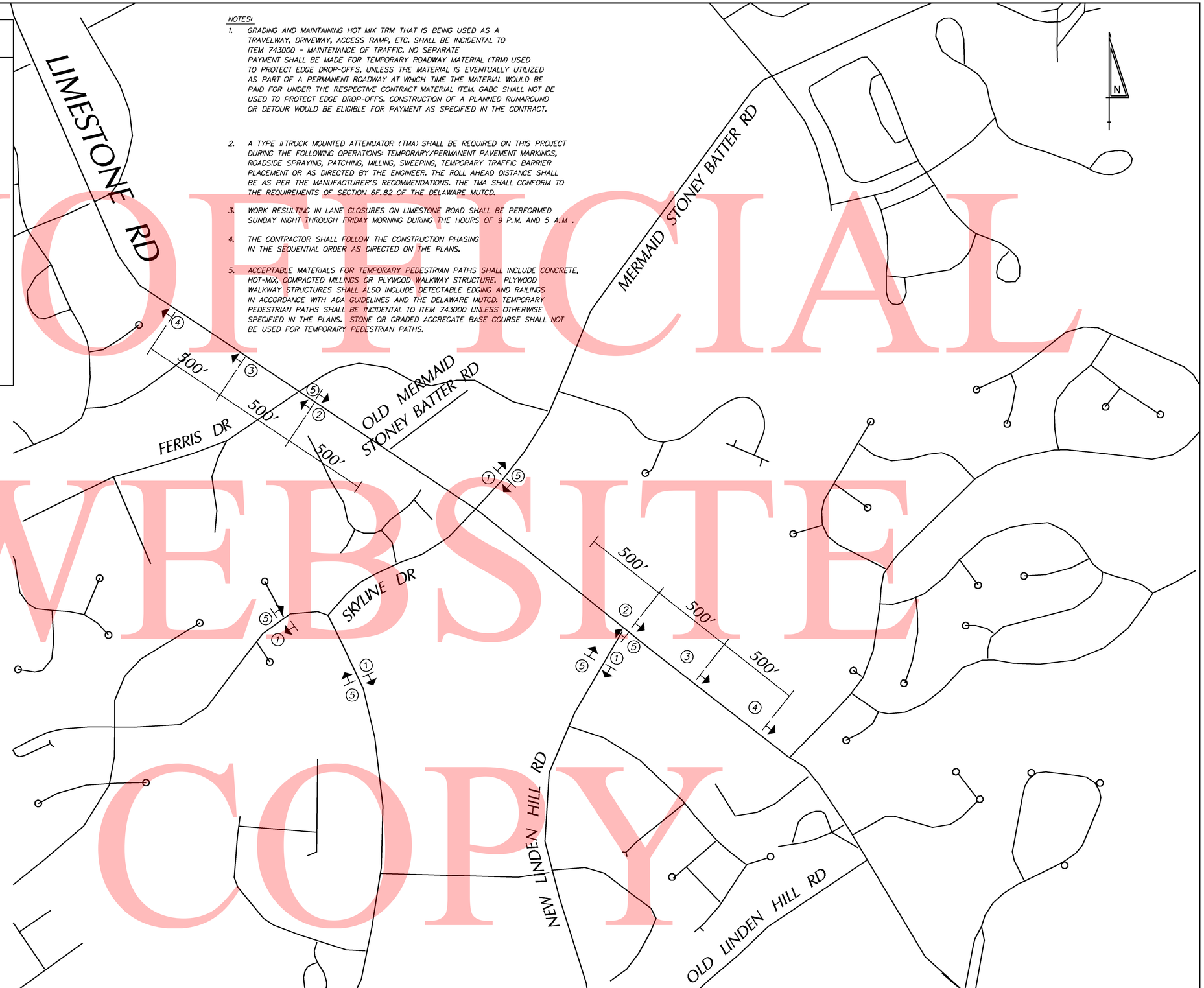
1. GRADING AND MAINTAINING HOT MIX TRM THAT IS BEING USED AS A TRAVELWAY, DRIVEWAY, ACCESS RAMP, ETC. SHALL BE INCIDENTAL TO ITEM 743000 - MAINTENANCE OF TRAFFIC. NO SEPARATE PAYMENT SHALL BE MADE FOR TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A PERMANENT ROADWAY AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM. GABC SHALL NOT BE USED TO PROTECT EDGE DROP-OFFS. CONSTRUCTION OF A PLANNED RUNAROUND OR DETOUR WOULD BE ELIGIBLE FOR PAYMENT AS SPECIFIED IN THE CONTRACT.

2. A TYPE II TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE REQUIRED ON THIS PROJECT DURING THE FOLLOWING OPERATIONS: TEMPORARY/PERMANENT PAVEMENT MARKINGS, ROADSIDE SPRAYING, PATCHING, MILLING, SWEEPING, TEMPORARY TRAFFIC BARRIER PLACEMENT OR AS DIRECTED BY THE ENGINEER. THE ROLL AHEAD DISTANCE SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE TMA SHALL CONFORM TO THE REQUIREMENTS OF SECTION 6F.82 OF THE DELAWARE MUTCD.

3. WORK RESULTING IN LANE CLOSURES ON LIMESTONE ROAD SHALL BE PERFORMED SUNDAY NIGHT THROUGH FRIDAY MORNING DURING THE HOURS OF 9 P.M. AND 5 A.M .

4. THE CONTRACTOR SHALL FOLLOW THE CONSTRUCTION PHASING IN THE SEQUENTIAL ORDER AS DIRECTED ON THE PLANS.

5. 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 743000 UNLESS OTHERWISE SPECIFIED IN THE PLANS. STONE OR GRADED AGGREGATE BASE COURSE SHALL NOT BE USED FOR TEMPORARY PEDESTRIAN PATHS.



EROSION & SEDIMENT CONTROL

DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
SF	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T	TURBIDITY CURTAIN

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201200102	DESIGNED BY: BLK	
COUNTY		
NC	CHECKED BY: DMO	

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

SHEET NO. 20

TOTAL SHTS. 51

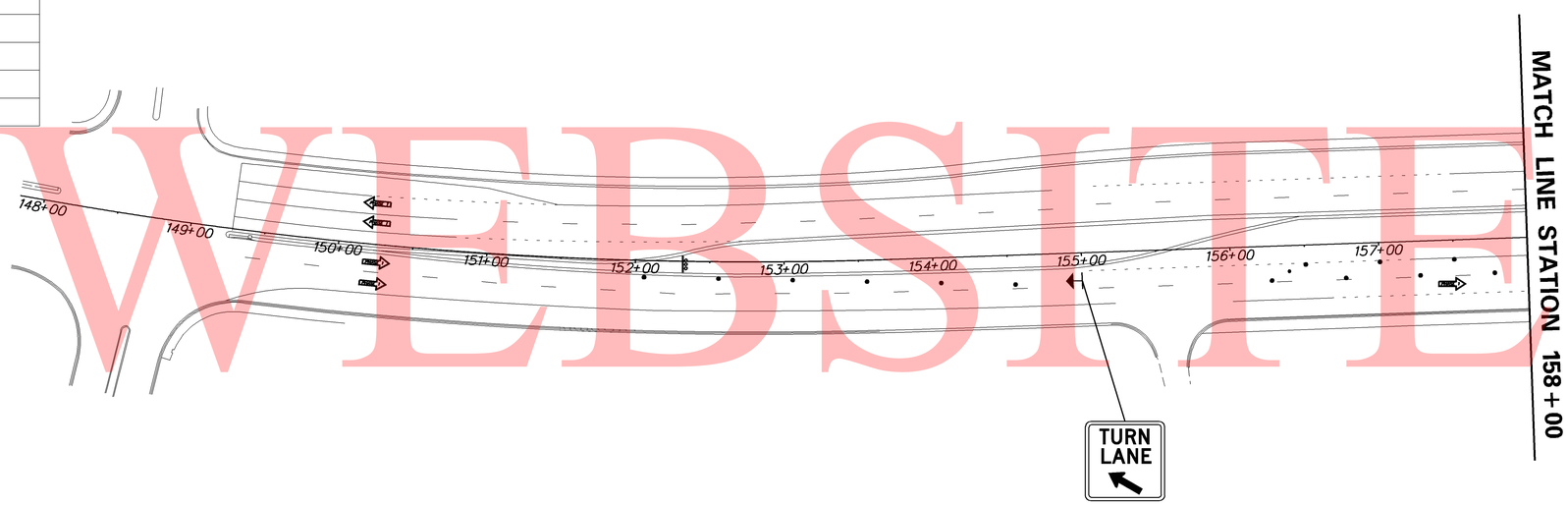
EROSION & SEDIMENT CONTROL	
DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	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
	ARROW BOARD SUPPORT

CONSTRUCTION PHASING NOTES

PHASE 1

1. INSTALL MAINTENANCE OF TRAFFIC USING TA-33 OF THE DE MUTCD FOR NB AND SB SR 7 IN ADDITION TO THE DEVICES SHOWN ON THE PLANS.
2. INSTALL MAINTENANCE OF TRAFFIC AS SHOWN ON THE PLANS FOR NEW LINDEN HILL ROAD. INSTALL MAINTENANCE OF TRAFFIC FOR SKYLINE DRIVE AS SHOWN ON PLANS. TA-23 OF THE DE MUTCD IS TO BE IMPLEMENTED ON SKYLINE DRIVE.
3. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS FOR THE ENTIRE PROJECT.
4. REMOVE EXISTING MEDIAN AND JUNCTION WELLS AS SHOWN ON THE PLANS.
5. INSTALL NEW MEDIAN AND NEW CONDUIT. CONSTRUCT LEFT-TURN LANES.
6. PLACE PERMANENT PAVEMENT STRIPING, USING TA 35-B OF THE DE MUTCD. USE TA-35C OF THE DE MUTCD FOR THE CONE RECOVERY OPERATION.
7. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 1	SHEET NO. 21
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

EROSION & SEDIMENT CONTROL

DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

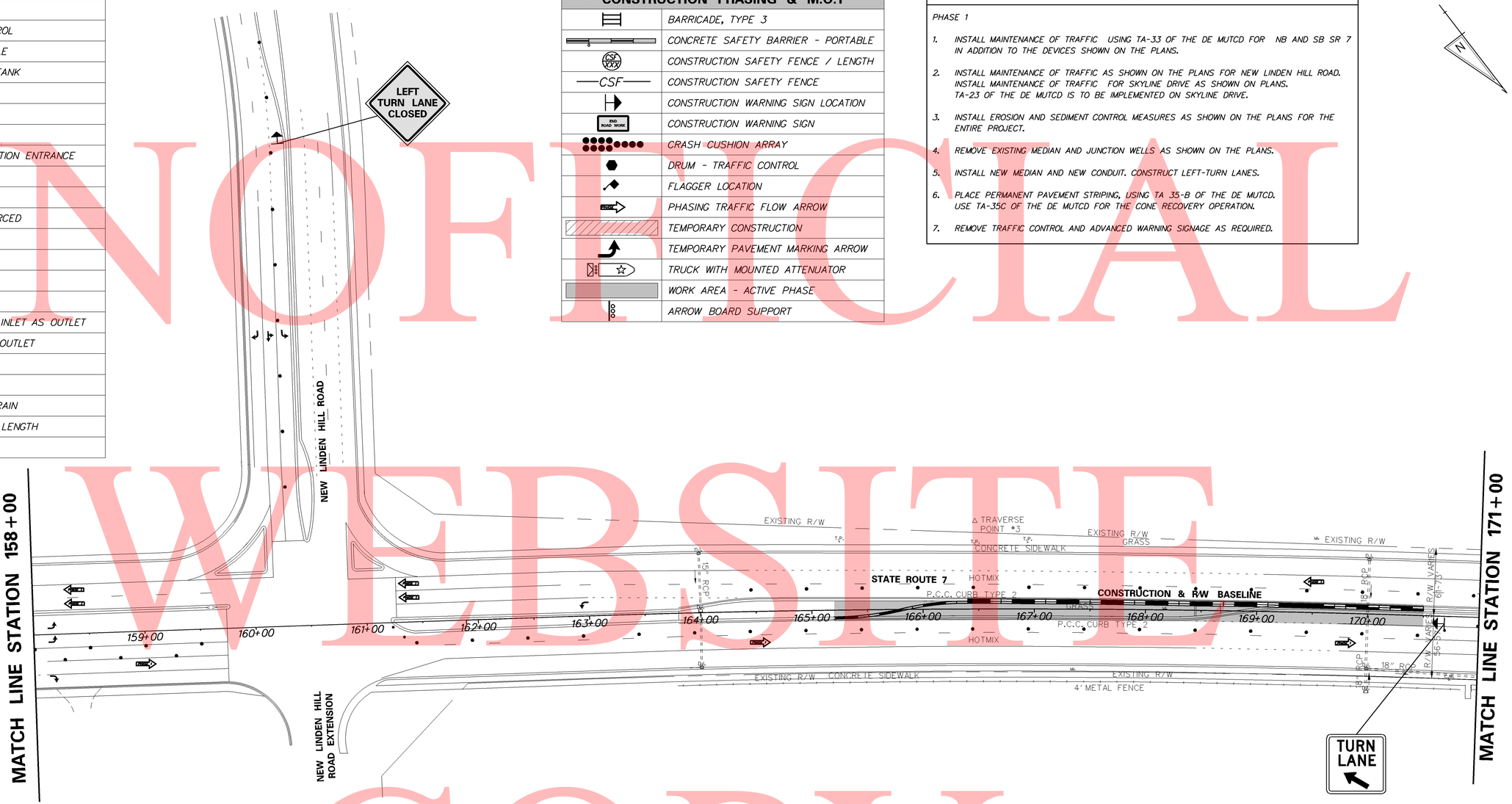
CONSTRUCTION PHASING & M.O.T

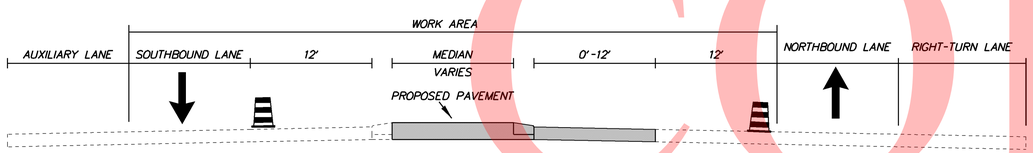
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
STOP	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE
	ARROW BOARD SUPPORT

CONSTRUCTION PHASING NOTES

PHASE 1

1. INSTALL MAINTENANCE OF TRAFFIC USING TA-33 OF THE DE MUTCD FOR NB AND SB SR 7 IN ADDITION TO THE DEVICES SHOWN ON THE PLANS.
2. INSTALL MAINTENANCE OF TRAFFIC AS SHOWN ON THE PLANS FOR NEW LINDEN HILL ROAD. INSTALL MAINTENANCE OF TRAFFIC FOR SKYLINE DRIVE AS SHOWN ON PLANS. TA-23 OF THE DE MUTCD IS TO BE IMPLEMENTED ON SKYLINE DRIVE.
3. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS FOR THE ENTIRE PROJECT.
4. REMOVE EXISTING MEDIAN AND JUNCTION WELLS AS SHOWN ON THE PLANS.
5. INSTALL NEW MEDIAN AND NEW CONDUIT. CONSTRUCT LEFT-TURN LANES.
6. PLACE PERMANENT PAVEMENT STRIPING, USING TA 35-B OF THE DE MUTCD. USE TA-35C OF THE DE MUTCD FOR THE CONE RECOVERY OPERATION.
7. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.





SR 7

STATION 163+50 TO STATION 170+50

NOT TO SCALE

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 1	SHEET NO. 22
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

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CONSTRUCTION PHASING & M.O.T

	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
—CSF—	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	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

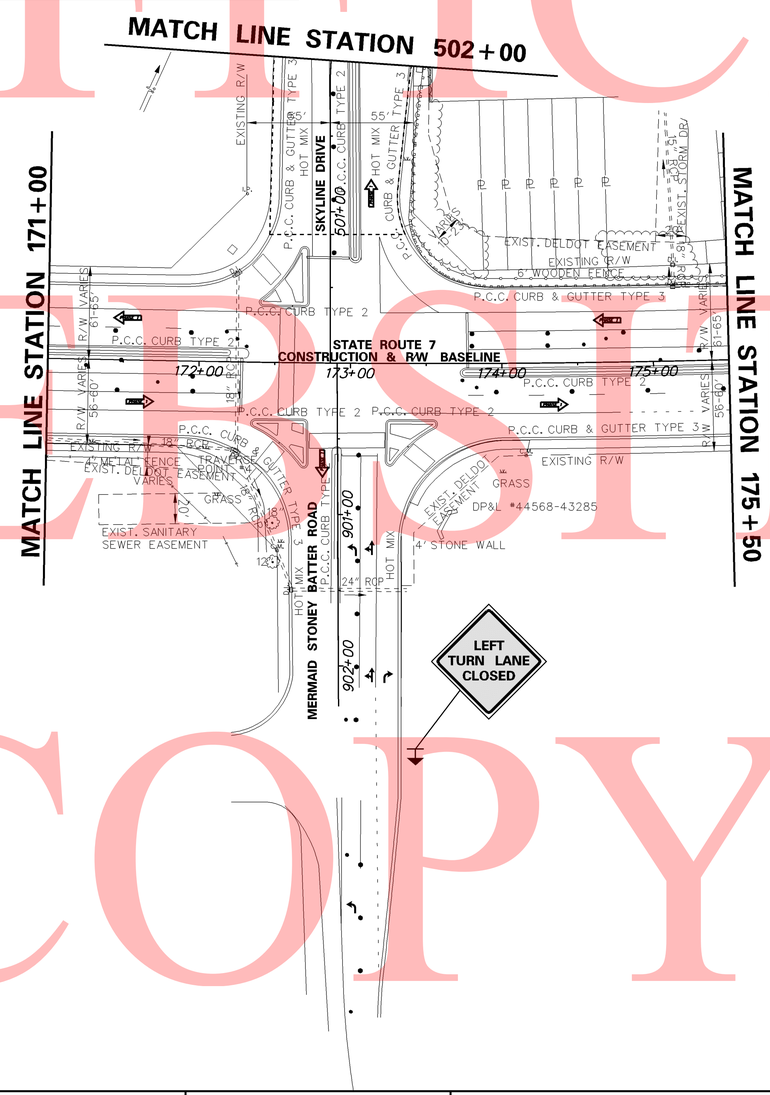
CONSTRUCTION PHASING NOTES

PHASE 1

1. INSTALL MAINTENANCE OF TRAFFIC USING TA-33 OF THE DE MUTCD FOR NB AND SB SR 7 IN ADDITION TO THE DEVICES SHOWN ON THE PLANS.
2. INSTALL MAINTENANCE OF TRAFFIC AS SHOWN ON THE PLANS FOR NEW LINDEN HILL ROAD. INSTALL MAINTENANCE OF TRAFFIC FOR SKYLINE DRIVE AS SHOWN ON PLANS. TA-23 OF THE DE MUTCD IS TO BE IMPLEMENTED ON SKYLINE DRIVE.
3. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS FOR THE ENTIRE PROJECT.
4. REMOVE EXISTING MEDIAN AND JUNCTION WELLS AS SHOWN ON THE PLANS.
5. INSTALL NEW MEDIAN AND NEW CONDUIT. CONSTRUCT LEFT-TURN LANES.
6. PLACE PERMANENT PAVEMENT STRIPING, USING TA 35-B OF THE DE MUTCD. USE TA-35C OF THE DE MUTCD FOR THE CONE RECOVERY OPERATION.
7. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.

EROSION & SEDIMENT CONTROL

DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
—SF—	SILT FENCE
—RSF—	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
—T—	TURBIDITY CURTAIN



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102 / COUNTY NC	BRIDGE NO. N/A / DESIGNED BY: BLK / CHECKED BY: DMO	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 1	SHEET NO. 23 / TOTAL SHTS. 51

CONSTRUCTION PHASING & M.O.T

	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
—CSF—	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	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
	ARROW BOARD SUPPORT

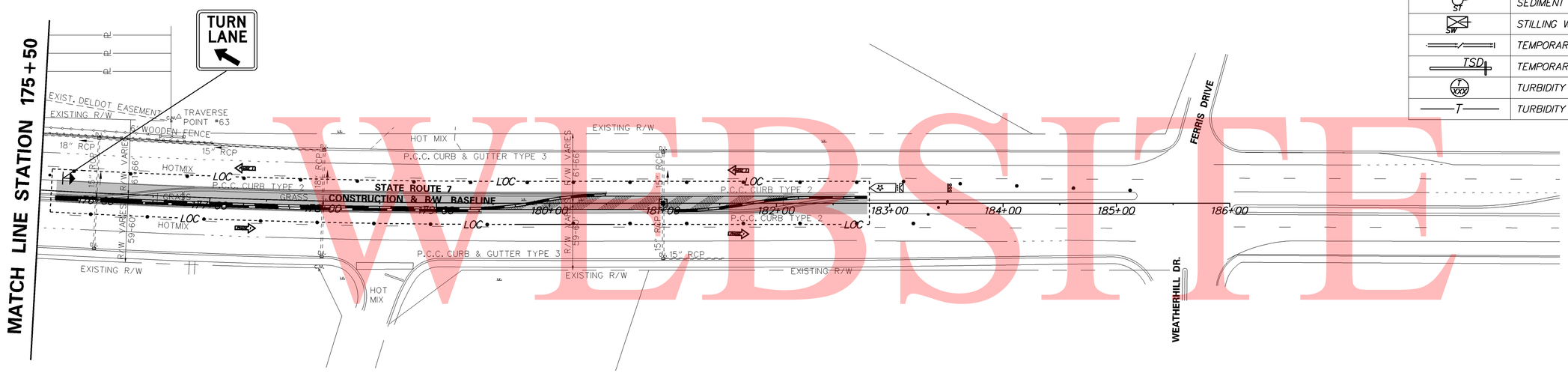
CONSTRUCTION PHASING NOTES

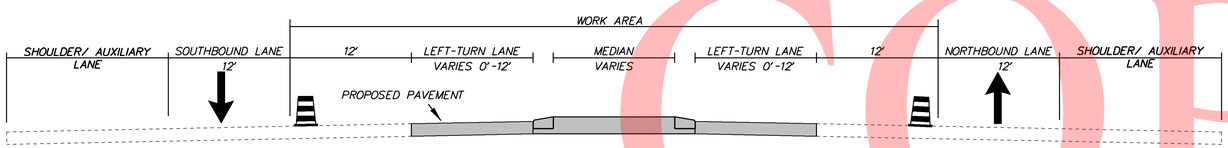
PHASE 1

1. INSTALL MAINTENANCE OF TRAFFIC USING TA-33 OF THE DE MUTCD FOR NB AND SB SR 7 IN ADDITION TO THE DEVICES SHOWN ON THE PLANS.
2. INSTALL MAINTENANCE OF TRAFFIC AS SHOWN ON THE PLANS FOR NEW LINDEN HILL ROAD. INSTALL MAINTENANCE OF TRAFFIC FOR SKYLINE DRIVE AS SHOWN ON PLANS. TA-23 OF THE DE MUTCD IS TO BE IMPLEMENTED ON SKYLINE DRIVE.
3. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS FOR THE ENTIRE PROJECT.
4. REMOVE EXISTING MEDIAN AND JUNCTION WELLS AS SHOWN ON THE PLANS.
5. INSTALL NEW MEDIAN AND NEW CONDUIT. CONSTRUCT LEFT-TURN LANES.
6. PLACE PERMANENT PAVEMENT STRIPING, USING TA 35-B OF THE DE MUTCD. USE TA-35C OF THE DE MUTCD FOR THE CONE RECOVERY OPERATION.
7. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.

EROSION & SEDIMENT CONTROL

DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
—SF—	SILT FENCE
—RSF—	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
—T—	TURBIDITY CURTAIN





SR 7
STATION 175+70 TO STATION 182+80

NOT TO SCALE

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 1	SHEET NO. 24
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

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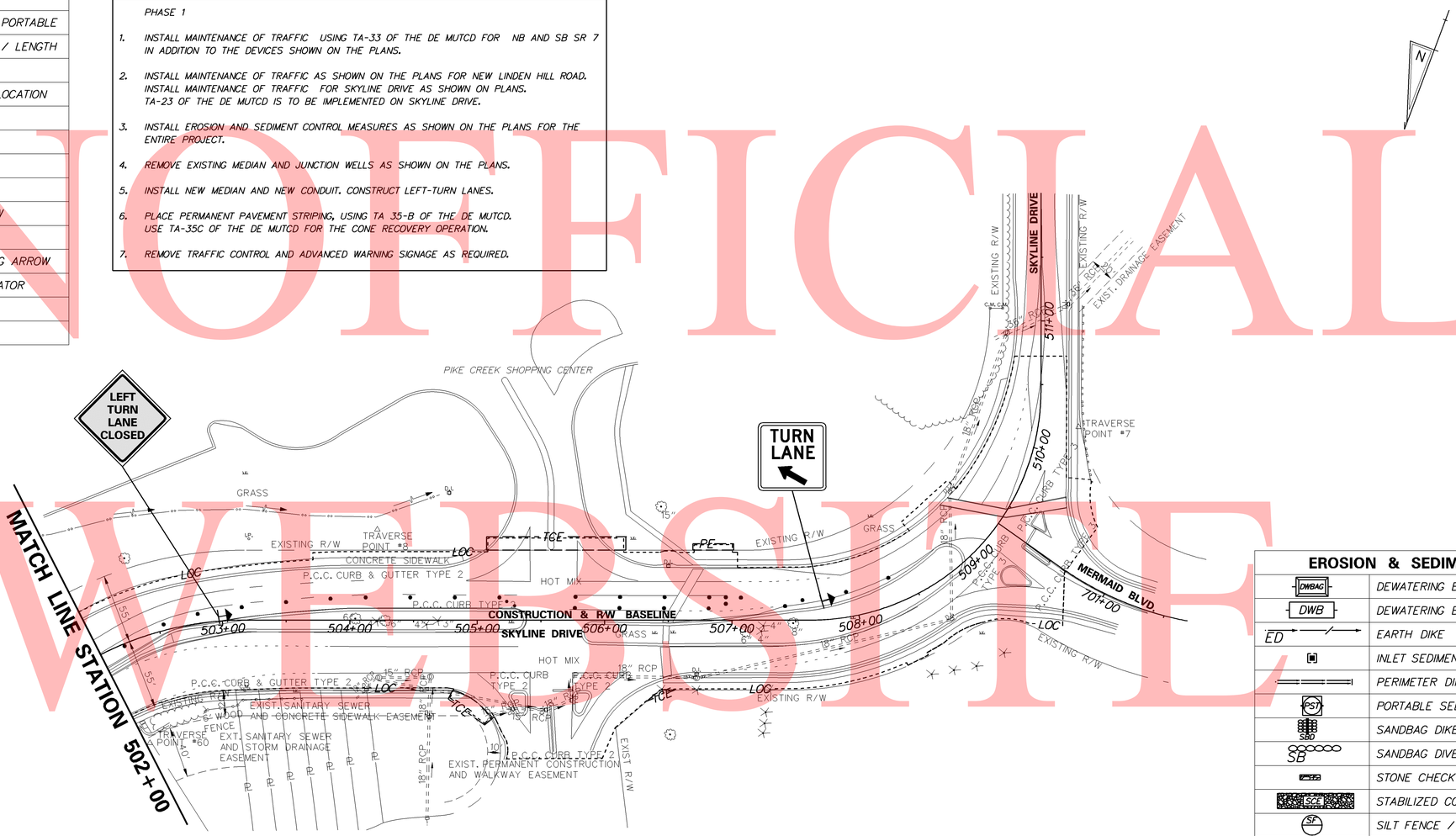
CONSTRUCTION PHASING & M.O.T

	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
—CSF—	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	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
	ARROW BOARD SUPPORT

CONSTRUCTION PHASING NOTES

PHASE 1

1. INSTALL MAINTENANCE OF TRAFFIC USING TA-33 OF THE DE MUTCD FOR NB AND SB SR 7 IN ADDITION TO THE DEVICES SHOWN ON THE PLANS.
2. INSTALL MAINTENANCE OF TRAFFIC AS SHOWN ON THE PLANS FOR NEW LINDEN HILL ROAD. INSTALL MAINTENANCE OF TRAFFIC FOR SKYLINE DRIVE AS SHOWN ON PLANS. TA-23 OF THE DE MUTCD IS TO BE IMPLEMENTED ON SKYLINE DRIVE.
3. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS FOR THE ENTIRE PROJECT.
4. REMOVE EXISTING MEDIAN AND JUNCTION WELLS AS SHOWN ON THE PLANS.
5. INSTALL NEW MEDIAN AND NEW CONDUIT. CONSTRUCT LEFT-TURN LANES.
6. PLACE PERMANENT PAVEMENT STRIPING, USING TA 35-B OF THE DE MUTCD. USE TA-35C OF THE DE MUTCD FOR THE CONE RECOVERY OPERATION.
7. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.



EROSION & SEDIMENT CONTROL

DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
—SF—	SILT FENCE
—RSF—	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
SF	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
—T—	TURBIDITY CURTAIN

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201200102	DESIGNED BY: BLK	
COUNTY		
NC	CHECKED BY: DMO	

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 1

SHEET NO. 25

TOTAL SHTS. 51

EROSION & SEDIMENT CONTROL

DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
SF	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

CONSTRUCTION PHASING & M.O.T

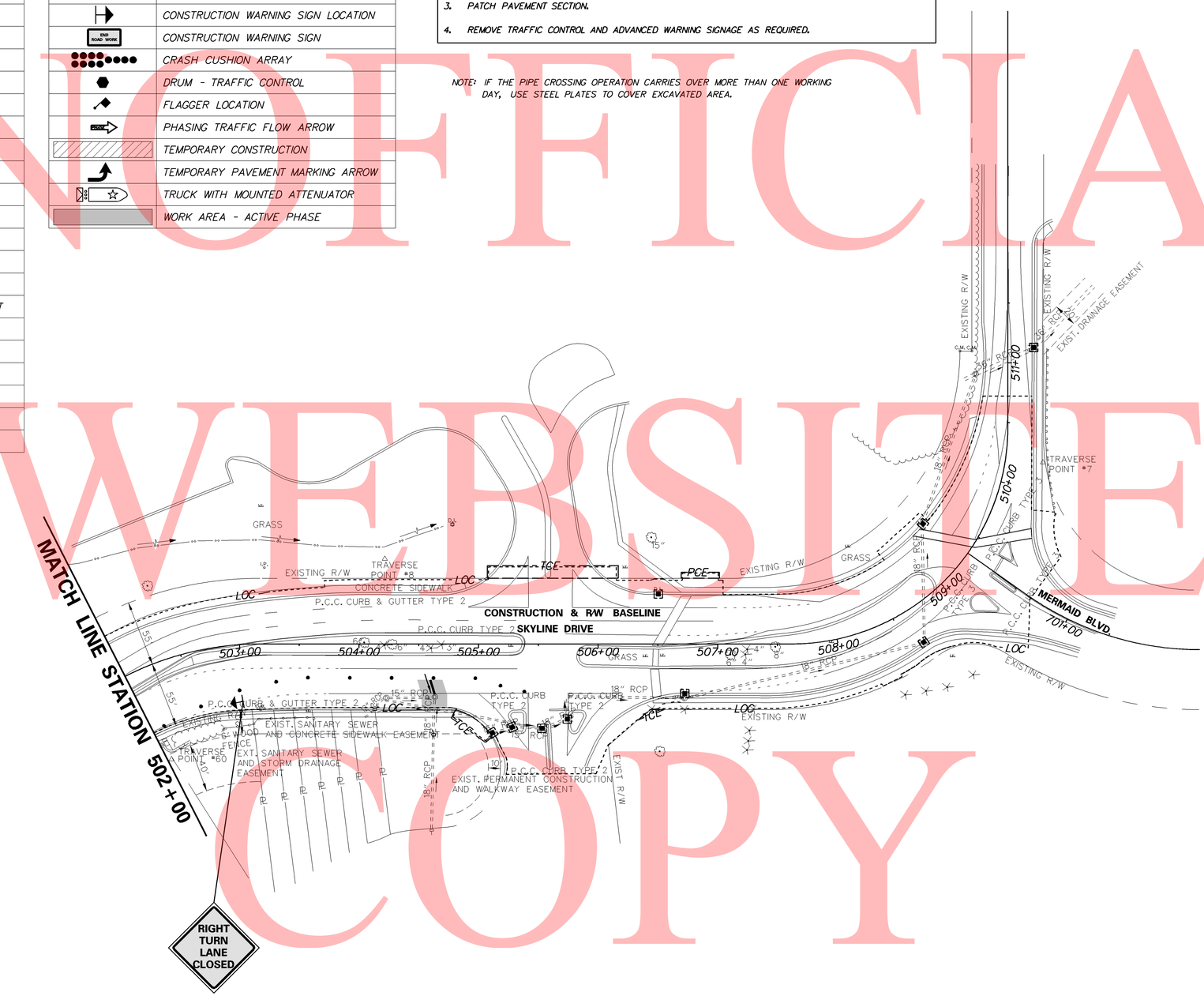
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

CONSTRUCTION PHASING NOTES

PHASE 2A

1. INSTALL MAINTENANCE OF TRAFFIC AND ADVANCED SIGNAGE FOR EB AND WB SKYLINE DRIVE AS SHOWN ON PLANS.
2. ADJUST AND REPAIR EXISTING MANHOLE. INSTALL PORTION OF PIPE P2.
3. PATCH PAVEMENT SECTION.
4. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.

NOTE: IF THE PIPE CROSSING OPERATION CARRIES OVER MORE THAN ONE WORKING DAY, USE STEEL PLATES TO COVER EXCAVATED AREA.



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102 / COUNTY NC	BRIDGE NO. N/A / DESIGNED BY: BLK / CHECKED BY: JAH	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 2A	SHEET NO. 26 / TOTAL SHTS. 51

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EROSION & SEDIMENT CONTROL	
DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
SP	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

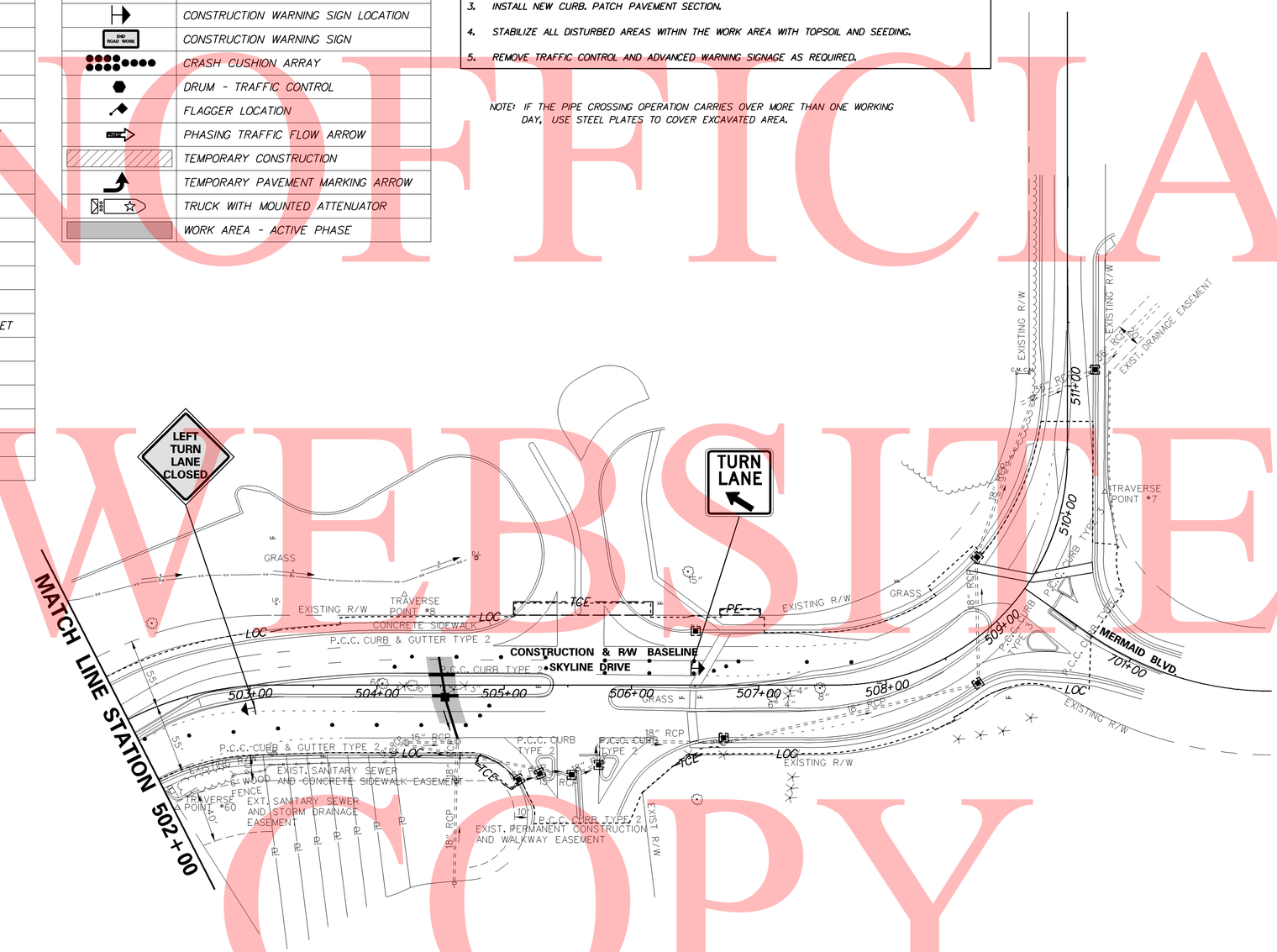
CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING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

CONSTRUCTION PHASING NOTES

PHASE 2B

1. INSTALL MAINTENANCE OF TRAFFIC AND ADVANCED SIGNAGE FOR EB AND WB SKYLINE DRIVE, USING TA-21 & TA-23 OF THE DE MUTCD.
2. INSTALL NEW DRAINAGE PIPES AND INLET.
3. INSTALL NEW CURB. PATCH PAVEMENT SECTION.
4. STABILIZE ALL DISTURBED AREAS WITHIN THE WORK AREA WITH TOPSOIL AND SEEDING.
5. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.

NOTE: IF THE PIPE CROSSING OPERATION CARRIES OVER MORE THAN ONE WORKING DAY, USE STEEL PLATES TO COVER EXCAVATED AREA.



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 2B	SHEET NO. 27
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

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

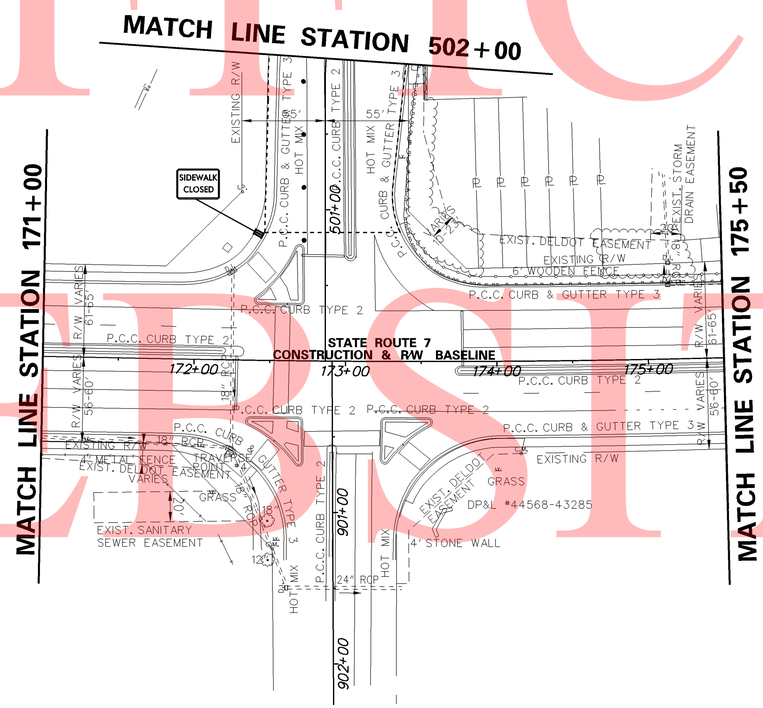
CONSTRUCTION PHASING NOTES

PHASE 2C

1. INSTALL MAINTENANCE OF TRAFFIC AND ADVANCED SIGNAGE FOR EB AND WB SKYLINE DRIVE IN ACCORDANCE WITH DELDOT MUTCD, TA-23.
2. INSTALL TYPE 3 BARRICADE AND "SIDEWALK CLOSED" SIGN ON SIDEWALK AT THE INTERSECTION OF SR 7 AND SKYLINE DRIVE AS WELL AS ON SKYLINE DRIVE AT THE SHOPPING CENTER ENTRANCE AS SHOWN ON PLANS. THE SIDEWALK SHALL REMAIN CLOSED AT THIS LOCATION FOR PHASES 2C, 3A, 3B, AND 3C.
3. ARTESIAN WILL RELOCATE THEIR WATER LINE PIPE.
4. REPLACE CURB. INSTALL NEW SAND FILTERS, DRAINAGE INLET, AND PIPE.
5. PATCH PAVEMENT SECTION.
6. STABILIZE ALL DISTURBED AREAS WITHIN WORK AREA WITH TOPSOIL AND SEEDING.
7. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.

NOTE: IF THE PIPE CROSSING OPERATION CARRIES OVER MORE THAN ONE WORKING DAY, USE STEEL PLATES TO COVER EXCAVATED AREA.

EROSION & SEDIMENT CONTROL	
DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 2C	SHEET NO. 28
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

EROSION & SEDIMENT CONTROL	
DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
SCD	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

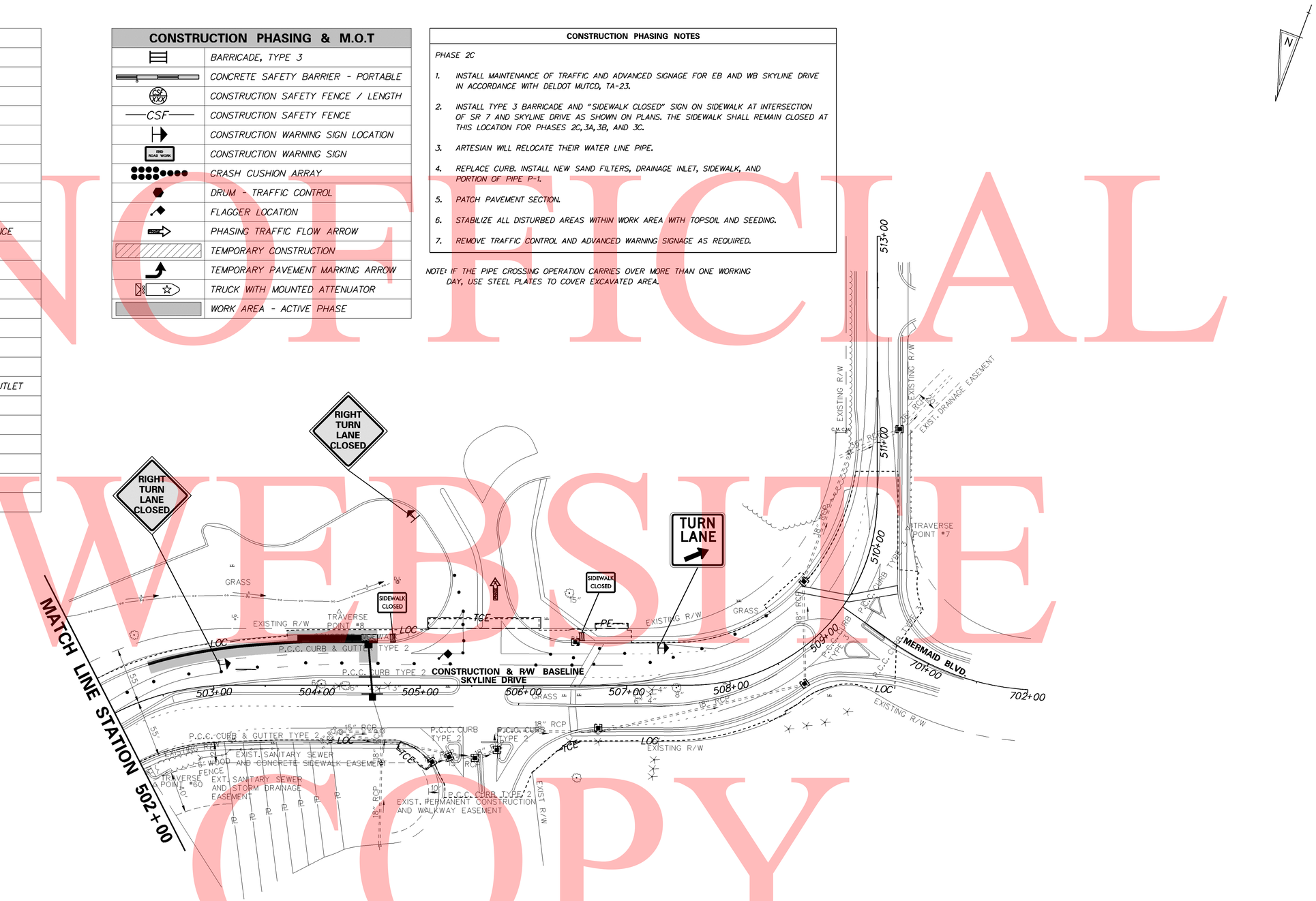
CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
PHASE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

CONSTRUCTION PHASING NOTES

PHASE 2C

1. INSTALL MAINTENANCE OF TRAFFIC AND ADVANCED SIGNAGE FOR EB AND WB SKYLINE DRIVE IN ACCORDANCE WITH DELDOT MUTCD, TA-23.
2. INSTALL TYPE 3 BARRICADE AND "SIDEWALK CLOSED" SIGN ON SIDEWALK AT INTERSECTION OF SR 7 AND SKYLINE DRIVE AS SHOWN ON PLANS. THE SIDEWALK SHALL REMAIN CLOSED AT THIS LOCATION FOR PHASES 2C, 3A, 3B, AND 3C.
3. ARTESIAN WILL RELOCATE THEIR WATER LINE PIPE.
4. REPLACE CURB. INSTALL NEW SAND FILTERS, DRAINAGE INLET, SIDEWALK, AND PORTION OF PIPE P-1.
5. PATCH PAVEMENT SECTION.
6. STABILIZE ALL DISTURBED AREAS WITHIN WORK AREA WITH TOPSOIL AND SEEDING.
7. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.

NOTE: IF THE PIPE CROSSING OPERATION CARRIES OVER MORE THAN ONE WORKING DAY, USE STEEL PLATES TO COVER EXCAVATED AREA.



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 2C	SHEET NO. 29
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

EROSION & SEDIMENT CONTROL

DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

CONSTRUCTION PHASING & M.O.T

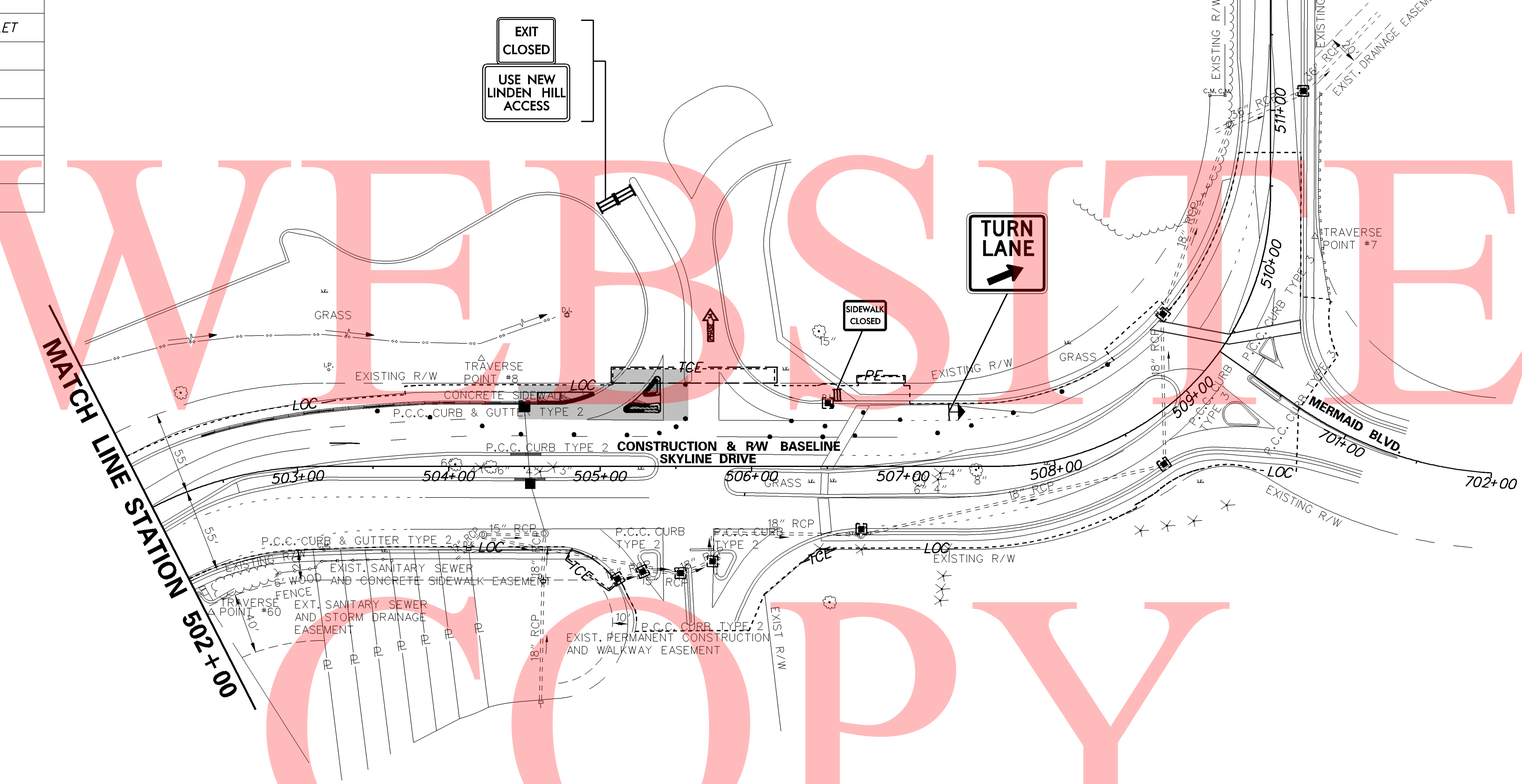
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
FLOW	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

CONSTRUCTION PHASING NOTES

PHASE 3A

1. INSTALL MAINTENANCE OF TRAFFIC AND ADVANCED SIGNAGE AS SHOWN FOR EB AND WB SKYLINE DRIVE IN ACCORDANCE WITH DELDOT MUTCD, TA-3. USE TA-21 AND TA-23 TO CLOSE LANES PRIOR TO AND AFTER THE INTERSECTION.
2. REMOVE EXISTING ISLAND AND SIDEWALK AS SHOWN ON THE PLANS.
3. INSTALL NEW ISLAND AND SIDEWALK. PATCH EXISTING PAVEMENT.
4. STABILIZE ALL DISTURBED AREAS WITHIN THE WORK AREA WITH TOPSOIL AND SEEDING.
5. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.

NOTE: WORK SHALL BE PERFORMED BETWEEN 10 PM - 5 AM.
THE EGRESS ONTO SKYLINE DRIVE SHALL BE OPENED BY 5 AM.



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 3A	SHEET NO. 30
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

EROSION & SEDIMENT CONTROL	
DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
SF	SEDIMENT TRAP
ST	SEDIMENT TRAP
SF	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

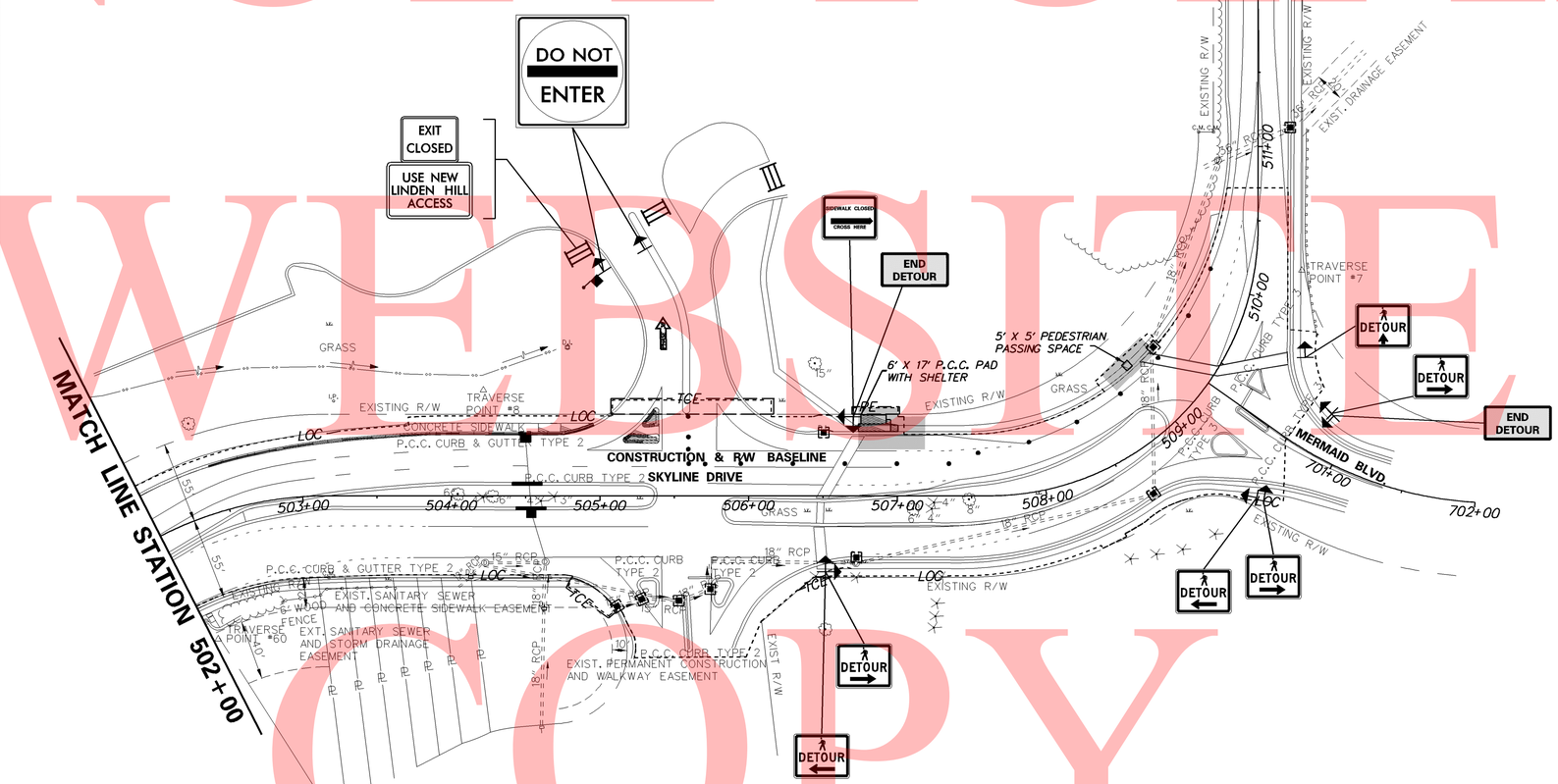
CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
FLOW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

CONSTRUCTION PHASING NOTES

PHASE 3B

1. INSTALL MAINTENANCE OF TRAFFIC AND ADVANCED SIGNAGE AS SHOWN FOR EB AND WB SKYLINE DRIVE IN ACCORDANCE WITH DELDOT MUTCD, TA-3. USE TA-21 AND TA-23 TO CLOSE LANES PRIOR TO AND AFTER THE INTERSECTION. STATION PORTABLE LIGHT ASSEMBLY AND FLAGGER AT THE "DO NOT ENTER" SIGNS TO ENFORCE THE CONDITION AT THE SHOPPING CENTER EXIT.
2. PLACE PEDESTRIAN DETOUR.
3. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS.
4. REMOVE EXISTING SIDEWALK AS SHOWN ON THE PLANS.
5. INSTALL NEW SIDEWALK. PATCH EXISTING PAVEMENT.
6. STABILIZE ALL DISTURBED AREAS WITHIN THE WORK AREA WITH TOPSOIL AND SEEDING.
7. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.

NOTE: WORK SHALL BE PERFORMED BETWEEN 10 PM - 5 AM.
DRIVEWAY SHALL BE REOPENED TO FULL ACCESS AT 5 AM.



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 3B	SHEET NO. 31
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

EROSION & SEDIMENT CONTROL	
DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
SF	SEDIMENT TRAP
ST	SEDIMENT TRAP
SF	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

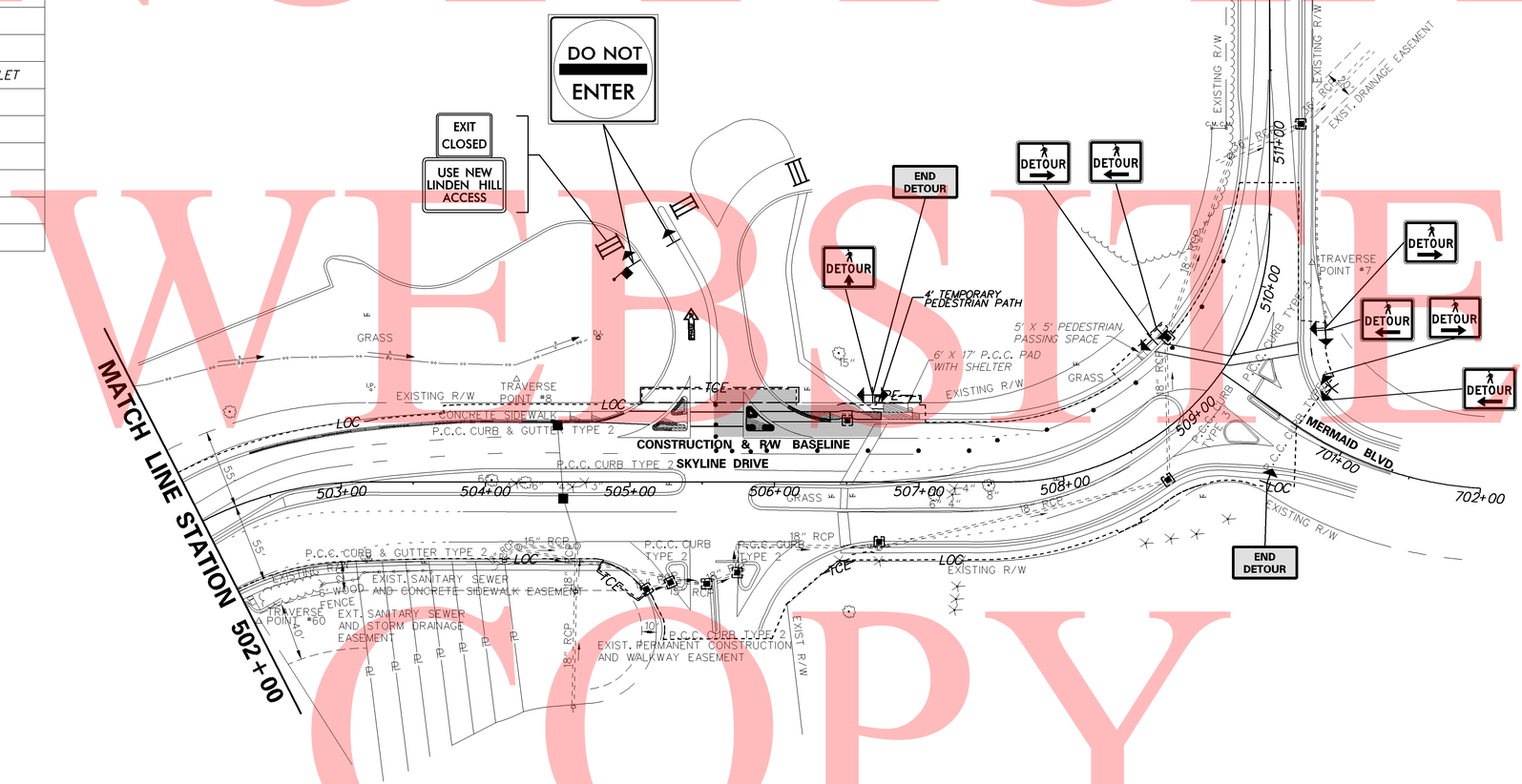
CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
PHASE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

CONSTRUCTION PHASING NOTES

PHASE 3C

1. INSTALL MAINTENANCE OF TRAFFIC AND ADVANCED SIGNAGE AS SHOWN FOR EB AND WB SKYLINE DRIVE IN ACCORDANCE WITH DELDOT MUTCD, TA-3. USE TA-21 AND TA-23 TO CLOSE LANES PRIOR TO AND AFTER THE INTERSECTION. STATION PORTABLE LIGHT ASSEMBLY AND FLAGGER AT THE "DO NOT ENTER" SIGNS TO ENFORCE THE CONDITION AT THE SHOPPING CENTER EXIT.
2. PLACE PEDESTRIAN DETOUR AND TEMPORARY PEDESTRIAN PATH.
3. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS.
4. REMOVE EXISTING ISLAND AND SIDEWALK AS SHOWN ON THE PLANS.
5. INSTALL NEW ISLAND AND SIDEWALK. PATCH EXISTING PAVEMENT.
6. STABILIZE ALL DISTURBED AREAS WITHIN THE WORK AREA WITH TOPSOIL AND SEEDING.
7. INSTALL TEMPORARY CROSSWALK AS SHOWN ON PLANS.
8. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.

NOTE: WORK SHALL BE PERFORMED BETWEEN 10 PM - 5 AM. THE ENTRANCE INTO THE SHOPPING CENTER SHALL BE REOPENED BY 5 AM.



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 3C	SHEET NO. 32
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

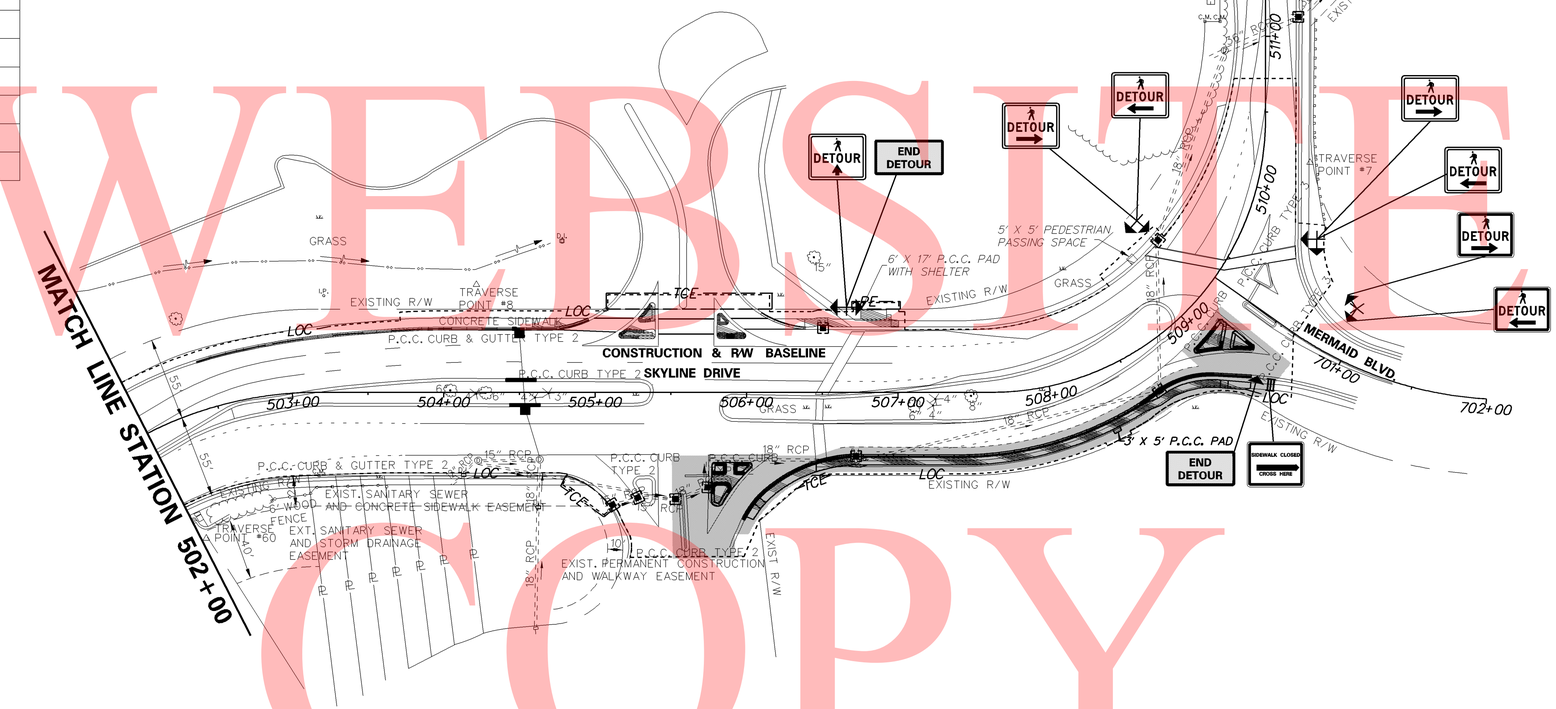
EROSION & SEDIMENT CONTROL	
DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
SF	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

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

CONSTRUCTION PHASING NOTES

PHASE 3D

1. INSTALL MAINTENANCE OF TRAFFIC AND ADVANCED SIGNAGE AS SHOWN FOR EB AND WB SKYLINE DRIVE IN ACCORDANCE WITH DELDOT MUTCD, TA-3. INSTALL MAINTENANCE OF TRAFFIC FOR MERMAID BLVD IN ACCORDANCE WITH DELDOT MUTCD, TA-10.
2. PLACE PEDESTRIAN DETOUR MEASURES IN ACCORDANCE WITH DELDOT MUTCD, TA-28.
3. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS.
4. REMOVE EXISTING ISLANDS AND SIDEWALK AS SHOWN ON THE PLANS.
5. ADJUST AND REPAIR DRAINAGE INLETS.
6. INSTALL NEW ISLANDS AND SIDEWALK. PATCH EXISTING PAVEMENT.
7. STABILIZE ALL DISTURBED AREAS WITHIN THE WORK AREA WITH TOPSOIL AND SEEDING.
8. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 3D	SHEET NO. 33
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

EROSION & SEDIMENT CONTROL

DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
SF	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

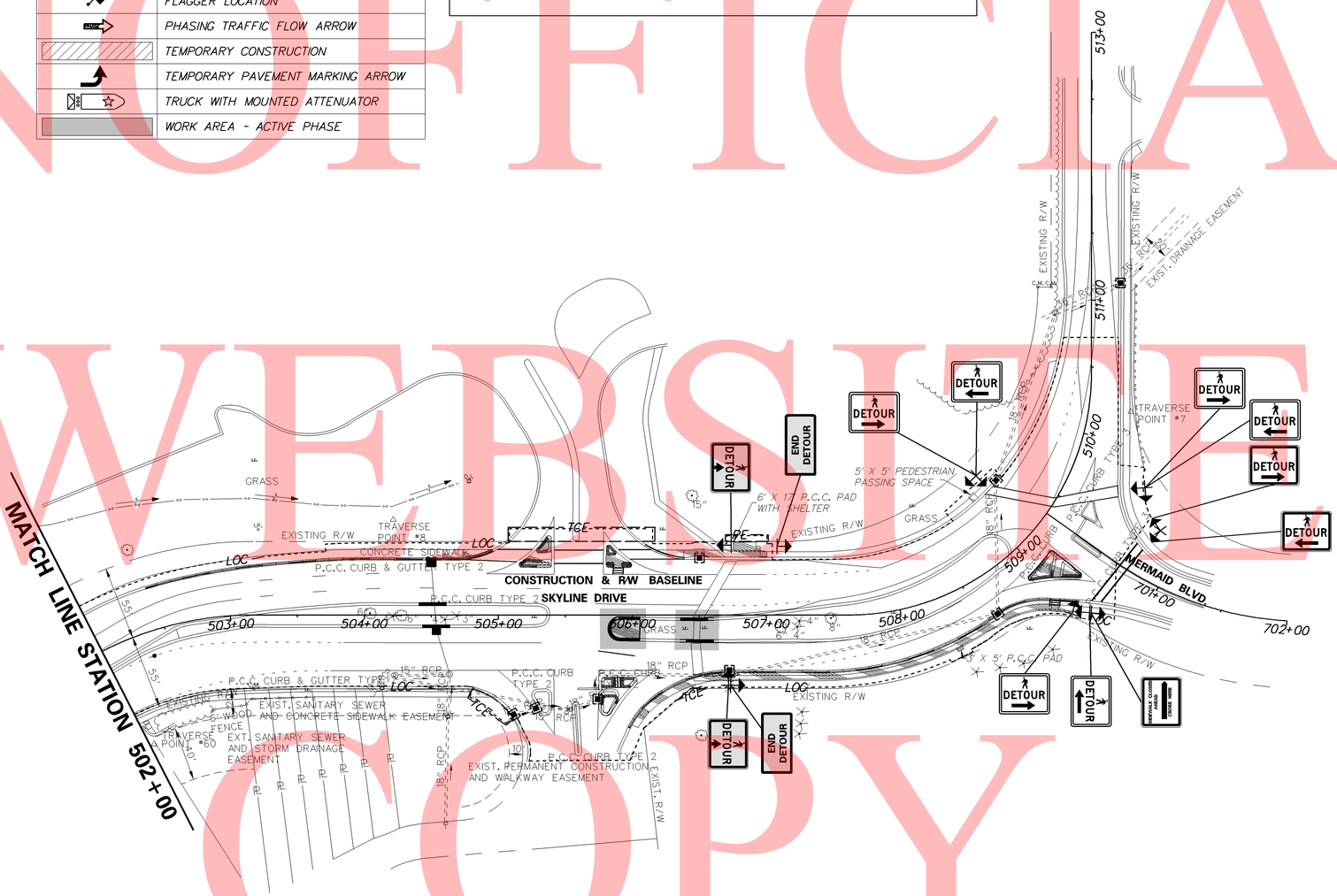
CONSTRUCTION PHASING & M.O.T

	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	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

CONSTRUCTION PHASING NOTES

PHASE 3E

1. INSTALL MAINTENANCE OF TRAFFIC AND ADVANCED SIGNAGE AS SHOWN FOR EB AND WB SKYLINE DRIVE IN ACCORDANCE WITH DELDOT MUTCD, TA-3. USE TA-21 AND TA-23 TO CLOSE LANES PRIOR TO AND AFTER THE INTERSECTION.
2. PLACE PEDESTRIAN DETOUR. INSTALL TEMPORARY CROSSWALK ACROSS MERMAID BLVD.
3. REMOVE EXISTING SIDEWALK AS SHOWN ON THE PLANS.
4. INSTALL NEW CURB AND SIDEWALK. PATCH EXISTING PAVEMENT.
5. STABILIZE ALL DISTURBED AREAS WITHIN THE WORK AREA WITH TOPSOIL AND SEEDING.
6. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102 / COUNTY NC	BRIDGE NO. N/A / DESIGNED BY: BLK / CHECKED BY: DMO	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 3E	SHEET NO. 34 / TOTAL SHTS. 51

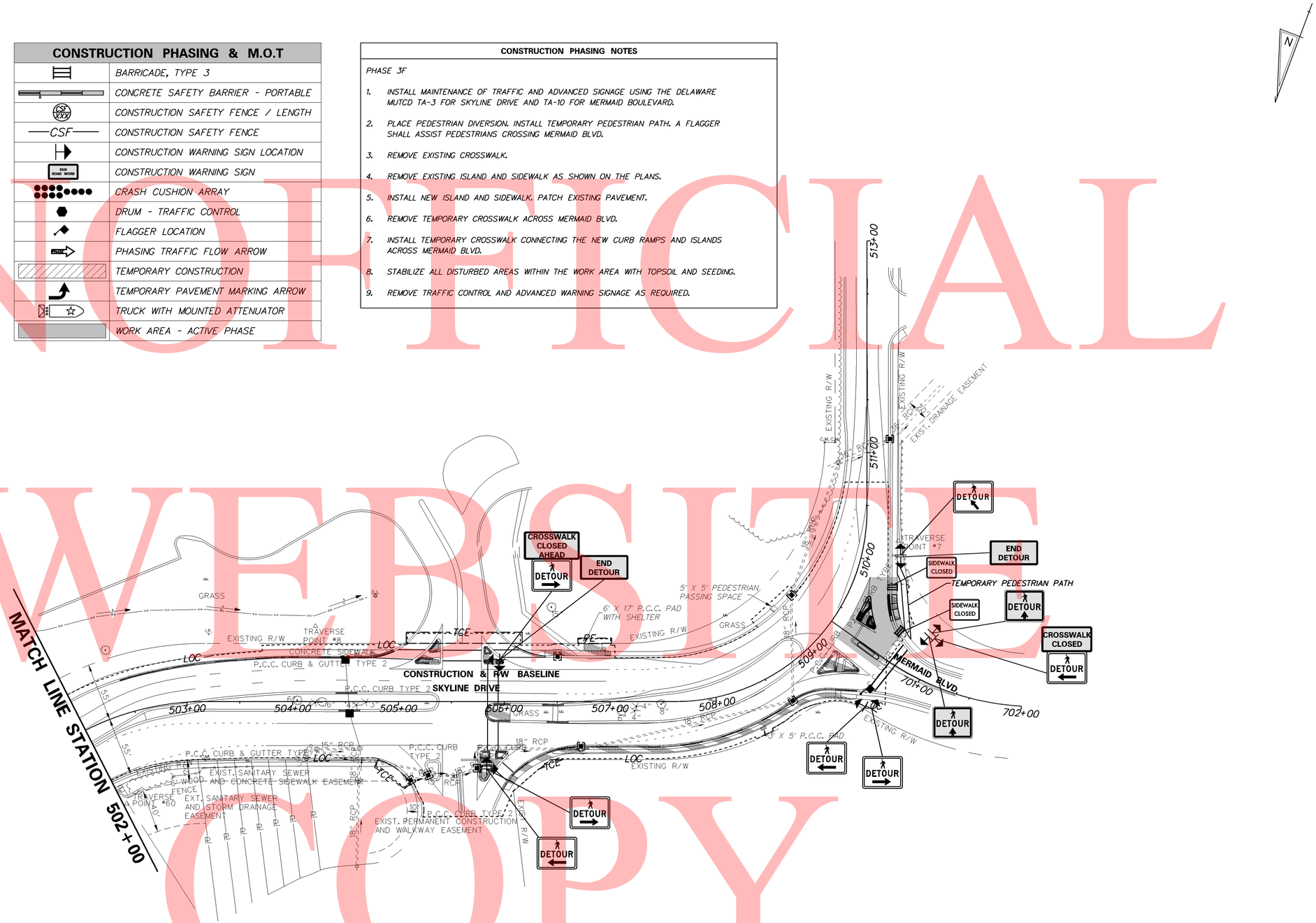
EROSION & SEDIMENT CONTROL	
DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
SF	SEDIMENT TRAP
SF	SEDIMENT TRAP
SF	SEDIMENT TRAP WITH INLET AS OUTLET
SF	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	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

CONSTRUCTION PHASING NOTES

PHASE 3F

1. INSTALL MAINTENANCE OF TRAFFIC AND ADVANCED SIGNAGE USING THE DELAWARE MUTCD TA-3 FOR SKYLINE DRIVE AND TA-10 FOR MERMAID BOULEVARD.
2. PLACE PEDESTRIAN DIVERSION. INSTALL TEMPORARY PEDESTRIAN PATH. A FLAGGER SHALL ASSIST PEDESTRIANS CROSSING MERMAID BLVD.
3. REMOVE EXISTING CROSSWALK.
4. REMOVE EXISTING ISLAND AND SIDEWALK AS SHOWN ON THE PLANS.
5. INSTALL NEW ISLAND AND SIDEWALK. PATCH EXISTING PAVEMENT.
6. REMOVE TEMPORARY CROSSWALK ACROSS MERMAID BLVD.
7. INSTALL TEMPORARY CROSSWALK CONNECTING THE NEW CURB RAMPS AND ISLANDS ACROSS MERMAID BLVD.
8. STABILIZE ALL DISTURBED AREAS WITHIN THE WORK AREA WITH TOPSOIL AND SEEDING.
9. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.



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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO. N/A
T201200102	DESIGNED BY: BLK
COUNTY	CHECKED BY: DMO
NC	

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 3F

SHEET NO. 35

TOTAL SHTS. 51

EROSION & SEDIMENT CONTROL

DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
CST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
SF	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

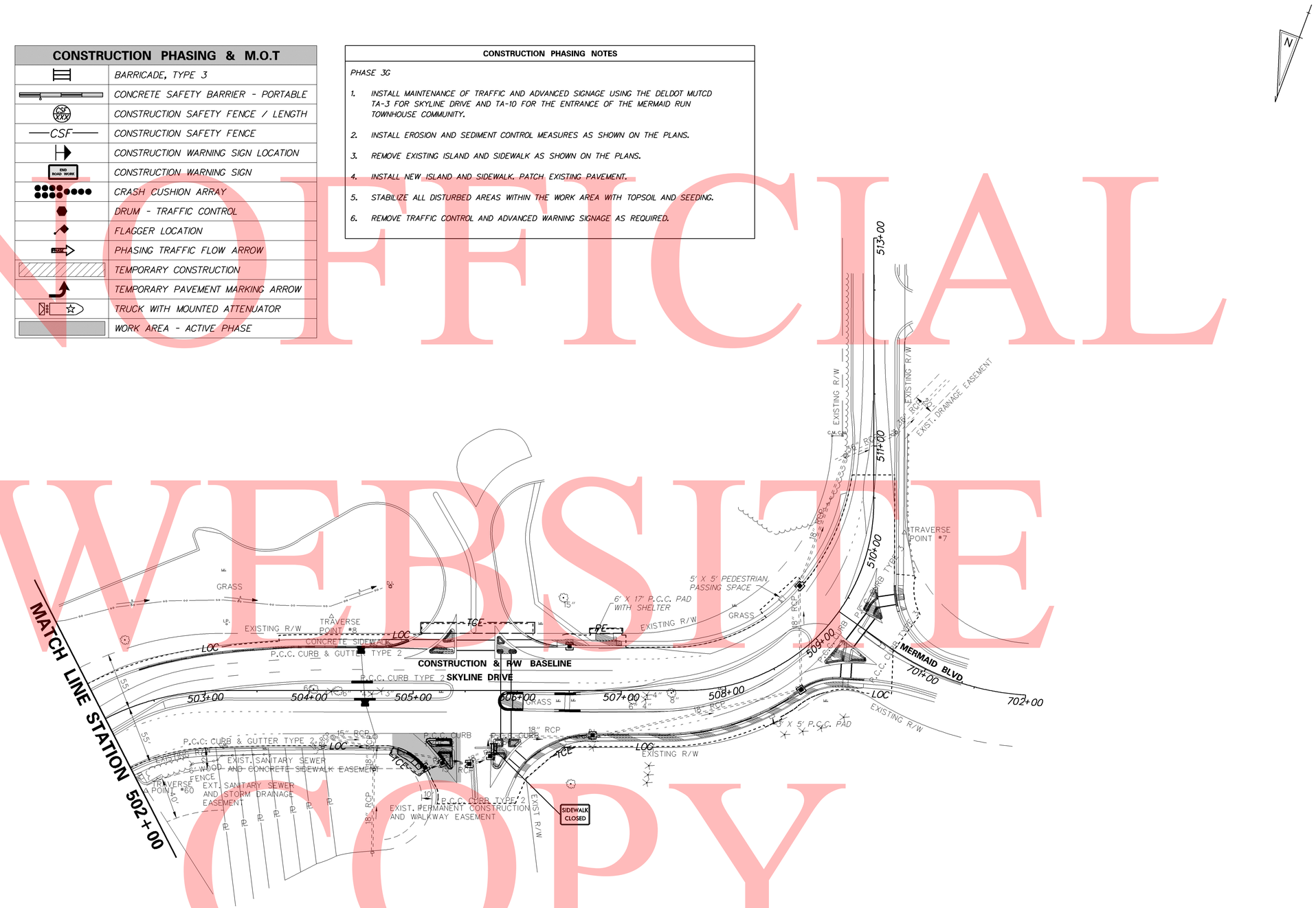
CONSTRUCTION PHASING & M.O.T

	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	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

CONSTRUCTION PHASING NOTES

PHASE 3G

1. INSTALL MAINTENANCE OF TRAFFIC AND ADVANCED SIGNAGE USING THE DELDOT MUTCD TA-3 FOR SKYLINE DRIVE AND TA-10 FOR THE ENTRANCE OF THE MERMAID RUN TOWNHOUSE COMMUNITY.
2. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS.
3. REMOVE EXISTING ISLAND AND SIDEWALK AS SHOWN ON THE PLANS.
4. INSTALL NEW ISLAND AND SIDEWALK. PATCH EXISTING PAVEMENT.
5. STABILIZE ALL DISTURBED AREAS WITHIN THE WORK AREA WITH TOPSOIL AND SEEDING.
6. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED.



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 3G	SHEET NO. 36
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

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

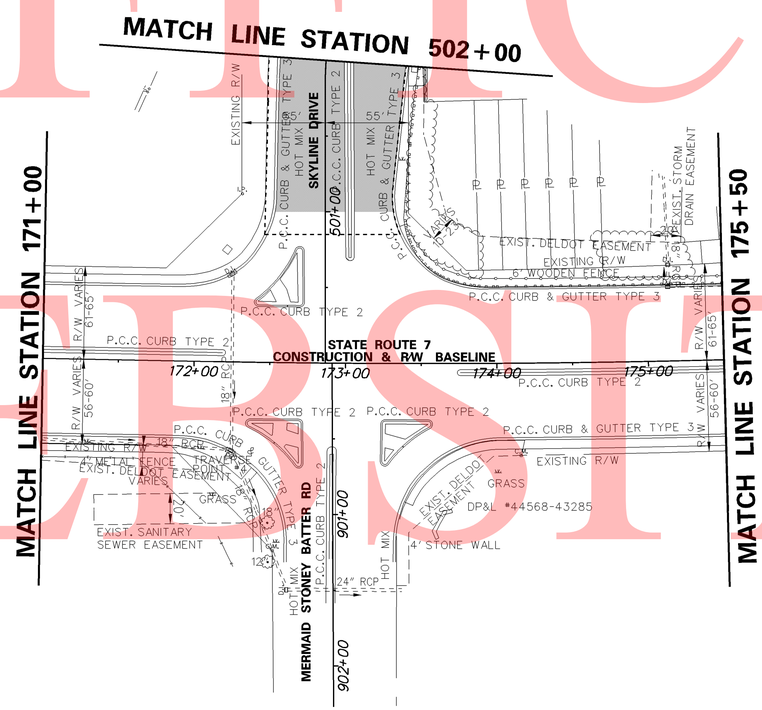
EROSION & SEDIMENT CONTROL	
DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
—SF—	SILT FENCE
—RSF—	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
—T—	TURBIDITY CURTAIN

CONSTRUCTION PHASING NOTES

PHASE 4

1. INSTALL MAINTENANCE OF TRAFFIC AND ADVANCED SIGNAGE FOR SR 7 AND SKYLINE DRIVE USING TA-10 OF THE DE MUTCD.
2. MILL AND OVERLAY PAVEMENT AS DIRECTED ON THE PLANS.
3. UPON COMPLETION OF PAVEMENT MILLING AND PAVEMENT OVERLAY, PLACE PLACE TEMPORARY PAVEMENT MARKINGS PRIOR TO OPENING TO TRAFFIC AT THE END OF EACH WORK DAY.
4. PLACE PERMANENT PAVEMENT STRIPING, USING TA 35-B OF THE DE MUTCD.
5. REMOVE ALL EROSION AND SEDIMENT CONTROL ITEMS. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED. USE TA-35C OF THE DE MUTCD FOR THE CONE RECOVERY OPERATION.

NOTE: WORK SHALL BE DONE BETWEEN 9 PM AND 5 AM.



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 4	SHEET NO. 37
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

EROSION & SEDIMENT CONTROL	
DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
SCD	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
SF	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

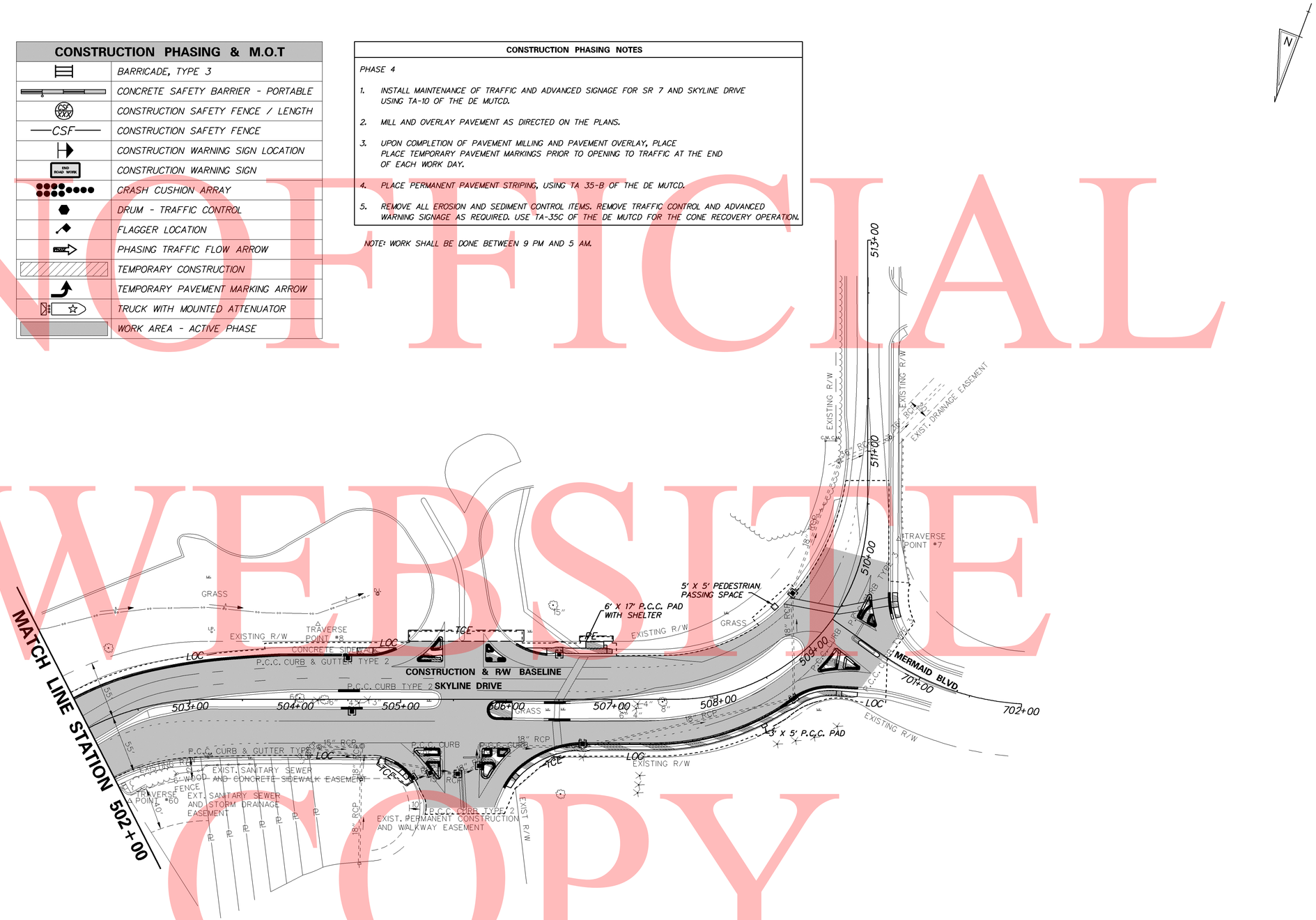
CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
PSFR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

CONSTRUCTION PHASING NOTES

PHASE 4

1. INSTALL MAINTENANCE OF TRAFFIC AND ADVANCED SIGNAGE FOR SR 7 AND SKYLINE DRIVE USING TA-10 OF THE DE MUTCD.
2. MILL AND OVERLAY PAVEMENT AS DIRECTED ON THE PLANS.
3. UPON COMPLETION OF PAVEMENT MILLING AND PAVEMENT OVERLAY, PLACE PLACE TEMPORARY PAVEMENT MARKINGS PRIOR TO OPENING TO TRAFFIC AT THE END OF EACH WORK DAY.
4. PLACE PERMANENT PAVEMENT STRIPING, USING TA 35-B OF THE DE MUTCD.
5. REMOVE ALL EROSION AND SEDIMENT CONTROL ITEMS. REMOVE TRAFFIC CONTROL AND ADVANCED WARNING SIGNAGE AS REQUIRED. USE TA-35C OF THE DE MUTCD FOR THE CONE RECOVERY OPERATION.

NOTE: WORK SHALL BE DONE BETWEEN 9 PM AND 5 AM.



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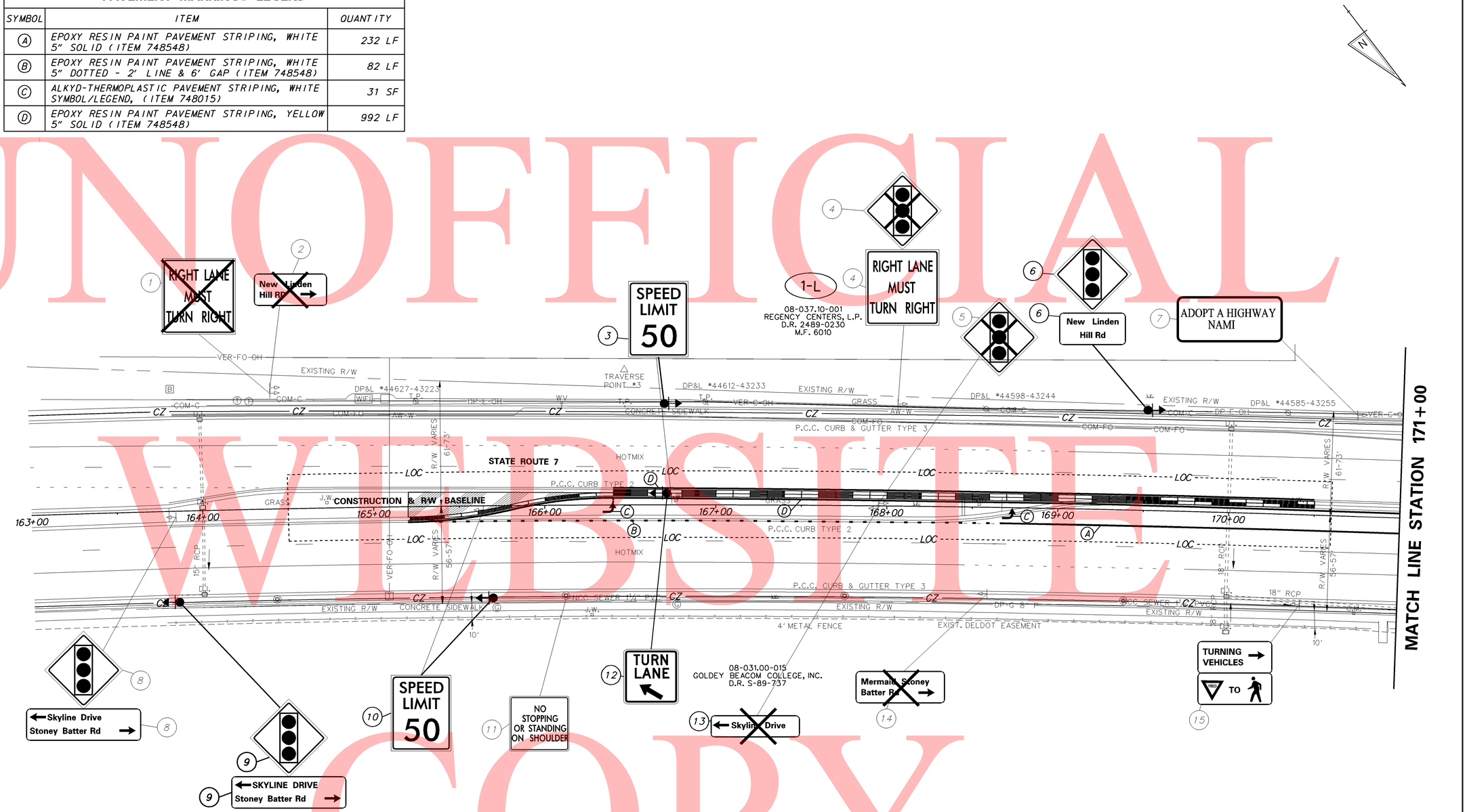
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 4	SHEET NO. 38
				COUNTY NC	DESIGNED BY: BLK		TOTAL SHTS. 51
					CHECKED BY: DMO		

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	232 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 748548)	82 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND, (ITEM 748015)	31 SF
(D)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	992 LF



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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

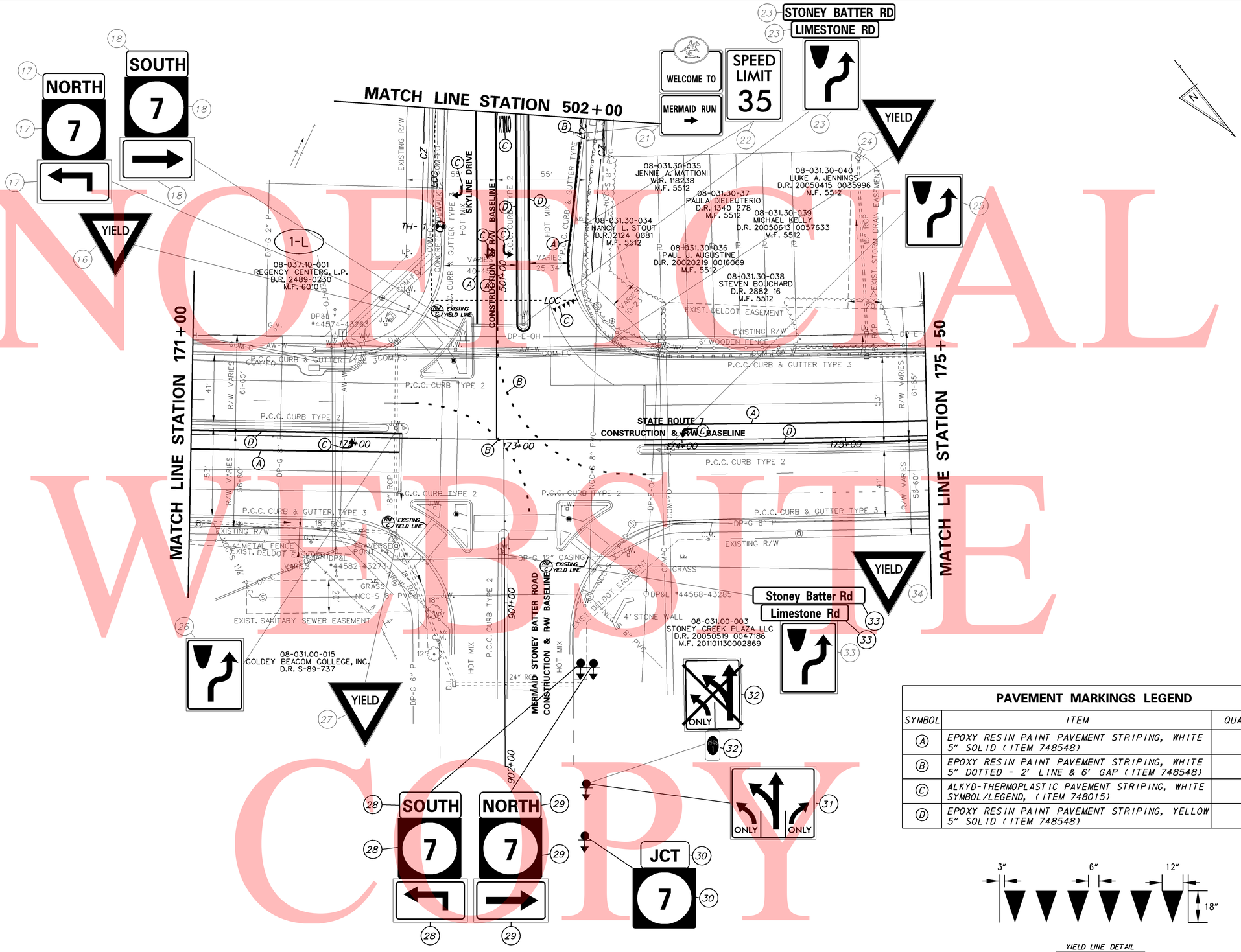
HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201200102	DESIGNED BY: BLK	
COUNTY	CHECKED BY: DMO	
NC		

SIGNING, STRIPING AND CONDUIT PLAN

SS-01

SHEET NO.
39
TOTAL SHTS.
51



PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
A	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	618 LF
B	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 748548)	70 LF
C	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND, (ITEM 748015)	94 SF
D	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	572 LF

YIELD LINE DETAIL
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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201200102	DESIGNED BY: BLK	
COUNTY		
NC	CHECKED BY: DMO	

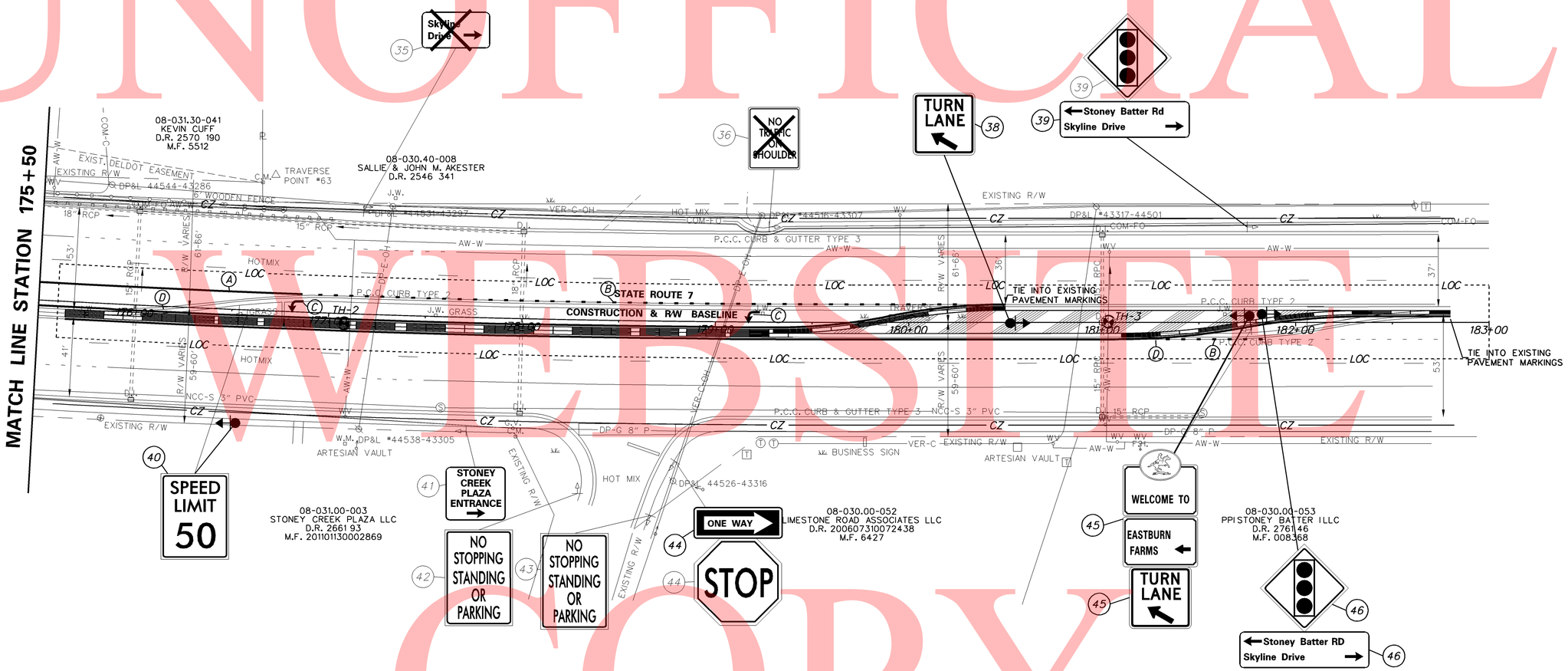
SIGNING, STRIPING AND CONDUIT PLAN

SS-02

SHEET NO. 40

TOTAL SHTS. 51

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	136 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 748548)	98 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND, (ITEM 748015)	31 SF
(D)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	1200 LF



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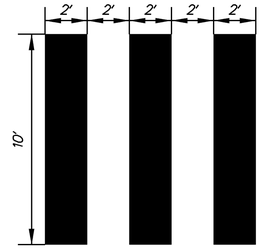
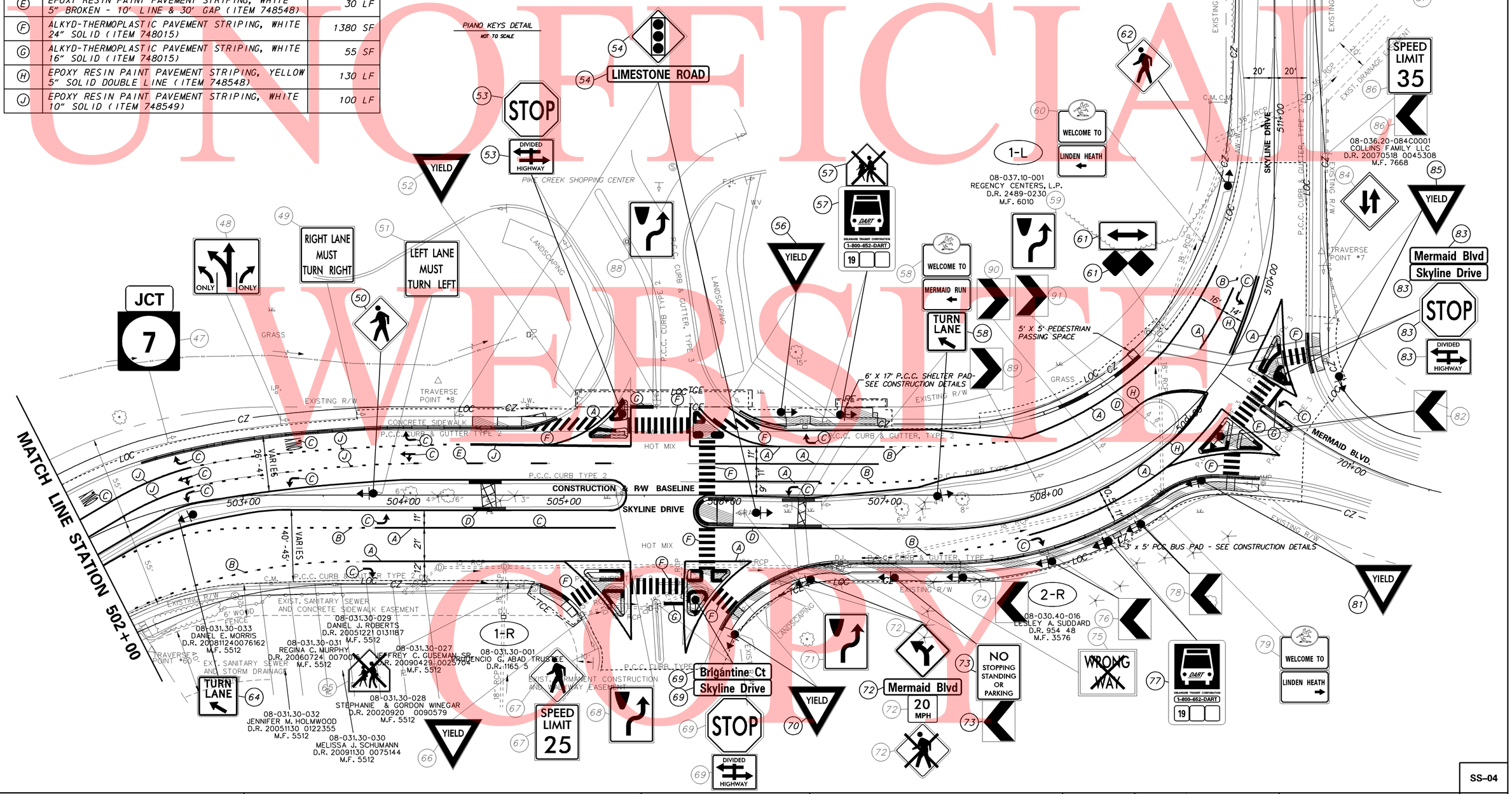
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102	BRIDGE NO. N/A	SIGNING, STRIPING AND CONDUIT PLAN	SS-03
				COUNTY NC	DESIGNED BY: BLK		SHEET NO. 41
					CHECKED BY: DMO		TOTAL SHTS. 51

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
A	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	2234 LF
B	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 748548)	330 LF
C	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND, (ITEM 748015)	295 SF
D	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	1300 LF
E	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748548)	30 LF
F	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 748015)	1380 SF
G	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 748015)	55 SF
H	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID DOUBLE LINE (ITEM 748548)	130 LF
J	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 10" SOLID (ITEM 748549)	100 LF



PIANO KEYS DETAIL
NOT TO SCALE



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP NCC, SR 7 AT SKYLINE DRIVE/ MERMAID STONEY BATTER ROAD	CONTRACT T201200102 / COUNTY NC	BRIDGE NO. N/A / DESIGNED BY: BLK / CHECKED BY: DMO	SIGNING, STRIPING AND CONDUIT PLAN	SS-04 / SHEET NO. 42 / TOTAL SHTS. 51

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SIGN SCHEDULE

NO.	SHEET NO.	PLAN INDICATOR	CODE (DE-MUTCD)	QTY.	DESCRIPTION	ASSEMBLY NO.	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	SIGN AREA (SF)	ITEM 749687 SINGLE POST (EACH)				ITEM 749690 MULTI POST (SF)				POST INSTALLATION TYPE	Code X11 12' Post (W/ Basepost)	ITEM 749688 4" HOLE, 0-6" (EACH)	ITEM 749689 4" HOLE, >6" (EACH)	REMARKS
										SIGN DISPOSTION	TOTAL SIGN AREA (SF)	REMOVE	INSTALL	SIGN DISPOSTION	TOTAL SIGN AREA (SF)	REMOVE	INSTALL					
1	38	1	R3-7_R(30)		RIGHT LANE MUST TURN RIGHT - 30"x30"				0	REMOVE	0	0	0		0	0	0		0	0	0	
2	38	2	W16-8aP		ADVANCE STREET NAME (2 - line plaque)				0	REMOVE	0	1	0		0	0	0		0	0	0	
3	38	3	R2-1-50(30)		SPEED LIMIT (50 MPH - 30x36)				0	REPOSITION	0	1	1		0	0	0	SOIL	1	0	0	
4	38	4	W3-3(30)		SIGNAL AHEAD (Symbol) - 30x30				0	REMOVE	0	1	0		0	0	0		0	0	0	
5	38		R3-7_R(30)		RIGHT LANE MUST TURN RIGHT - 30"x30"	4			0	REMAIN	0	0	0		0	0	0		0	0	0	
6	38	5	W3-3(30)		SIGNAL AHEAD (Symbol) - 30x30				0	REMOVE	0	1	0		0	0	0		0	0	0	
7	38	6	W3-3(30)	1	SIGNAL AHEAD (Symbol) - 30x30		30	30	6	NEW	6	0	1		0	0	0	SOIL	1	0	0	
8	38		W16-8aP	1	ADVANCE STREET NAME (2 - line plaque)	6	36	18	5	NEW	5	0	0		0	0	0		0	0	0	New Linden Hill Rd
9	38	7	D14-3-DE		ADOPT A HIGHWAY				0	REMAIN	0	0	0		0	0	0		0	0	0	
10	38	8	W3-3(30)		SIGNAL AHEAD (Symbol) - 30x30				0	REMAIN	0	0	0		0	0	0		0	0	0	
11	38		W16-8aP		ADVANCE STREET NAME (2 - line plaque)	8			0	REMAIN	0	0	0		0	0	0		0	0	0	
12	38	9	W3-3(30)	1	SIGNAL AHEAD (Symbol) - 30x30		30	30	6	NEW	6	0	1		0	0	0	SOIL	1	0	0	
13	38		W16-8aP	1	ADVANCE STREET NAME (2 - line plaque)	9	48	18	6	NEW	0	0	0		0	0	0		0	0	0	<- Skyline Drive Stoney Batter Rd ->
14	38	10	R2-1-50(30)		SPEED LIMIT (50 MPH - 30x36)				0	REPOSITION	0	1	1		0	0	0		1	0	0	
15	38	11	R7-4-DE(12)		NO STOPPING, STANDING, OR PARKING - 12x18				0	REMAIN	0	0	0		0	0	0		0	0	0	
16	38	12	R3-20-DE	1	TURN LANE		18	18	2	NEW	2	0	1		0	0	0	CONCRETE	1	1	0	
17	38	13	W16-8P		ADVANCE STREET NAME (1 - line plaque)				0	REMOVE	0	1	0		0	0	0		0	0	0	
18	38	14	W16-8aP		ADVANCE STREET NAME (2 - line plaque)				0	REMOVE	0	1	0		0	0	0		0	0	0	
19	38	15	R10-15		TURNING VEHICLES YIELD TO PEDS				0	REMAIN	0	0	0		0	0	0		0	0	0	
20	39	16	R1-2(48)		YIELD		48	48	16		0	0	0	REMAIN	0	0	0	SOIL	0	0	0	
21	39	17	M3-1(24)		CARDINAL DIRECTION - NORTH - 24x12		24	12	2	REMAIN	0	0	0		0	0	0	SOIL	0	0	0	
22	39		M1-5(24)		STATE ROUTE (2 - Digit Sign) - 24x24	17	24	24	4	REMAIN	0	0	0		0	0	0		0	0	0	7
23	39		M5-1_L		ADVANCE TURN ARROW (Left - 90)	17	21	15	2	REMAIN	0	0	0		0	0	0		0	0	0	
24	39	18	M3-3(24)		CARDINAL DIRECTION - SOUTH - 24x12		24	12	2	REMAIN	0	0	0		0	0	0	SOIL	0	0	0	
25	39		M1-5(24)		STATE ROUTE (2 - Digit Sign) - 24x24	18	24	24	4	REMAIN	0	0	0		0	0	0		0	0	0	7
26	39		M6-1_R(21)		DIRECTIONAL ARROW (Right) - 21x15	18	21	15	2	REMAIN	0	0	0		0	0	0		0	0	0	
29	39	21	D3-2-DE1		WELCOME TO				0	REMAIN	0	0	0		0	0	0		0	0	0	
30	39		D3-2-DE2		DEVELOPMENT NAME	21			0	REMAIN	0	0	0		0	0	0		0	0	0	
31	39	22	R2-1-35(24)		SPEED LIMIT (35 MPH - 24x30)				0	REMAIN	0	0	0		0	0	0		0	0	0	
32	39	23	D3-1(9)		STREET NAME (1 Line)		48	9	3	REMAIN	3	0	0		0	0	0		0	0	0	Stoney Batter Rd
33	39		D3-1(9)		STREET NAME (1 Line)	23	42	9	3	REMAIN	0	0	0		0	0	0		0	0	0	Limestone Rd
34	39		R4-7a(24)		KEEP RIGHT (Arrow) - 24x30	23			0	REMAIN	0	0	0		0	0	0		0	0	0	
35	39	24	R1-2(36)		YIELD		36	36	9	REMAIN	0	0	0		0	0	0	SOIL	0	0	0	
36	39	25	R4-7a(24)		KEEP RIGHT (Arrow) - 24x30				0	REMAIN	0	0	0		0	0	0		0	0	0	
37	39	26	R4-7a(24)		KEEP RIGHT (Arrow) - 24x30				0	REMAIN	0	0	0		0	0	0		0	0	0	
38	39	27	R1-2(36)		YIELD		36	36	9	REMAIN	9	0	0		0	0	0		0	0	0	
39	39	28	M3-3(24)	1	CARDINAL DIRECTION - SOUTH - 24x12		24	12	2	NEW	2	0	1		0	0	0	SOIL	1	0	0	

SS-05

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT T201200102
COUNTY NC
BRIDGE NO. N/A
DESIGNED BY: BLK
CHECKED BY: DMO

SIGNING, STRIPING AND CONDUIT PLAN

SHEET NO. 43
TOTAL SHTS. 51

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SIGN SCHEDULE

NO.	SHEET NO.	PLAN INDICATOR	CODE (DE-MUTCD)	QTY.	DISCRIPTION	ASSEMBLY NO.	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	SIGN AREA (SF)	ITEM 749687 SINGLE POST (EACH)				ITEM 749690 MULTI POST (SF)				POST INSTALLATION TYPE	Code X11 12' Post (W/ Basepost)	ITEM 749688 4" HOLE, 0-6" (EACH)	ITEM 749689 4" HOLE, >6" (EACH)	REMARKS
										SIGN DISPOSTION	TOTAL SIGN AREA (SF)	REMOVE	INSTALL	SIGN DISPOSTION	TOTAL SIGN AREA (SF)	REMOVE	INSTALL					
1	39		M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	28	24	24	4	NEW	4	0	0		0	0	0		0	0	0	7
2	39		M5-1_L	1	ADVANCE TURN ARROW (Left - 90)	28	21	15	2	NEW	2	0	0		0	0	0		0	0	0	
3	39	29	M3-1(24)	1	CARDINAL DIRECTION - NORTH - 24x12		24	12	2	NEW	2	0	1		0	0	0	SOIL	1	0	0	
4	39		M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	29	24	24	4	NEW	4	0	0		0	0	0		0	0	0	7
5	39		M6-1_R(21)	1	DIRECTIONAL ARROW (Right) - 21x15	29	21	15	2	NEW	2	0	0		0	0	0		0	0	0	
6	39	30	M2-1(21)	1	JUNCTION - 21x15		21	15	2	NEW	2	0	1		0	0	0	SOIL	1	0	0	7
7	39		M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	30	24	24	4	NEW	4	0	0		0	0	0		0	0	0	
8	39	31	R3-8a(48)	1	ADVANCE INTERSECTION LANE CONTROL (Left, Left - Ahead, Right) - 48"x30"		48	30	10		0	0	0	NEW	10	0	2		2	0	0	
9	39	32	R3-8(30)		ADVANCE INTERSECTION LANE CONTROL (Left, Left - Ahead) - 30"x30"				0	REMOVE	0	1	0		0	0	0		0	0	0	
10	39		M1-8(12)		BIKE ROUTE - 12x18	32			0	REMAIN	0	0	0		0	0	0		0	0	0	
11	39	33	D3-1(9)	1	STREET NAME (1 Line)		48	9	3	ADD TO EXIST.	0	0	0		0	0	0		0	0	0	Stoney Batter Rd
12	39		D3-1(9)	1	STREET NAME (1 Line)	33	42	9	3	ADD TO EXIST.	3	0	0		0	0	0		0	0	0	Limestone Rd
13	39		r4-7(24)		KEEP RIGHT (Symbol) - 24x30	33			0	REMAIN	0	0	0		0	0	0		0	0	0	
14	39	34	R1-2(36)		YIELD				0	REMAIN	0	0	0		0	0	0		0	0	0	
15	40	35	W16-8P		ADVANCE STREET NAME (1 - line plaque)				0	REMOVE	0	1	0		0	0	0		0	0	0	
16	40	36			NO TRAFFIC ON SHOULDER				0	REMOVE	0	1	0		0	0	0		0	0	0	
18	40	38	R3-20-DE	1	TURN LANE		18	18	2	NEW	2	0	1		0	0	0	SOIL	1	0	0	
19	40	39	W3-3(30)		SIGNAL AHEAD (Symbol) - 30x30				0	REMAIN	0	0	0		0	0	0		0	0	0	
20	40		W16-8ap	1	ADVANCE STREET NAME (2 - line plaque)	39	36	12	3	ADD TO EXIST.	3	0	0		0	0	0		0	0	0	<-Stoney Batter Rd Skyline Drive ->
21	40	40	R2-1-50(30)		SPEED LIMIT (50 MPH - 30x36)				0	REPOSITION	0	1	1		0	0	0	SOIL	1	0	0	
22	40	41			Stoney Creek Plaza Entrance ->				0	REMAIN	0	0	0		0	0	0		0	0	0	
23	40	42	R7-4-DE(12)		NO STOPPING, STANDING, OR PARKING - 12x18				0	REMAIN	0	0	0		0	0	0		0	0	0	
24	40	43	R7-4-DE(12)		NO STOPPING, STANDING, OR PARKING - 12x18				0	REMAIN	0	0	0		0	0	0		0	0	0	
25	40	44	R1-1(30)		STOP				0	REMAIN	0	0	0		0	0	0		0	0	0	
26	40		R6-1_R(36)	1	ONE WAY (ENCLOSED IN RIGHT ARROW) - 36x12	44	36	12	3	ADD TO EXIST.	3	0	0		0	0	0		0	0	0	
27	40	45	D3-2-DE1		WELCOME TO				0	REPOSITION	0	1	1		0	0	0	CONCRETE	1	1	0	
28	40		D3-2-DE2		DEVELOPMENT NAME	45			0	REPOSITION	0	0	0		0	0	0		0	0	0	Eastburn Farms
29	40		R3-20-DE	1	TURN LANE	45	18	18	2	ADD TO EXIST.	2	0	0		0	0	0		0	0	0	
30	40	46	W3-3(30)	1	SIGNAL AHEAD (Symbol) - 30x30		30	30	6	NEW	6	0	1		0	0	0	SOIL	1	0	0	
31	40		W16-8ap	1	ADVANCE STREET NAME (2 - line plaque)	46	36	18	5	NEW	5	0	0		0	0	0		0	0	0	<-Stoney Batter Rd Skyline Drive ->
32	41	47	M2-1(21)		JUNCTION - 21x15				0	REMAIN	0	0	0		0	0	0	SOIL	0	0	0	
33	41		M1-5(24)		STATE ROUTE (2 - Digit Sign) - 24x24				0	REMAIN	0	0	0		0	0	0		0	0	0	7
34	41	48	R3-8a(48)		ADVANCE INTERSECTION LANE CONTROL (Left, Left - Ahead, Right) - 48"x30"				0		0	0	0	REMAIN	0	0	0	SOIL	0	0	0	
35	41	49	R3-7_R(30)		RIGHT LANE MUST TURN RIGHT - 30"x30"				0	REMAIN	0	0	0		0	0	0	SOIL	0	0	0	
36	41	50	W11-2(30)	1	PEDESTRIAN (Symbol) - 30x30		30	30	6	NEW	6	0	1		0	0	0	SOIL	1	0	0	
37	41	51	R3-7_L(30)		LEFT LANE MUST TURN LEFT - 30"x30"				0	REMAIN	0	0	0		0	0	0	SOIL	0	0	0	
38	41	52	R1-2(36)		YIELD				0	REMAIN	0	0	0		0	0	0	SOIL	0	0	0	
39	41	53	R1-1(36)		STOP				0	REPOSITION	0	1	1		0	0	0	CONCRETE	1	1	0	
40	41		R6-3(30)		DIVIDED HIGHWAY CROSSING (4 - Legged Intersection) - 30x24	53			0	REPOSITION	0	0	0		0	0	0		0	0	0	

SS-06

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT T201200102 | COUNTY NC | BRIDGE NO. N/A | DESIGNED BY: BLK | CHECKED BY: DMO

SIGNING, STRIPING AND CONDUIT PLAN

SHEET NO. 44 | TOTAL SHTS. 51

W:\MSV8\CELLS\PROJDEV\SB.CEL

UNOFFICIAL WEBSITE COPY

SIGN SCHEDULE

NO.	SHEET NO.	PLAN INDICATOR	CODE (DE-MUTCD)	QTY.	DISCRIPTION	ASSEMBLY NO.	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	SIGN AREA (SF)	ITEM 749687 SINGLE POST (EACH)				ITEM 749690 MULTI POST (SF)				POST INSTALLATION TYPE	Code X11 12' Post (W/ Basepost)	ITEM 749688 4" HOLE, 0-6" (EACH)	ITEM 749689 4" HOLE, >6" (EACH)	REMARKS
										SIGN DISPOSTION	TOTAL SIGN AREA (SF)	REMOVE	INSTALL	SIGN DISPOSTION	TOTAL SIGN AREA (SF)	REMOVE	INSTALL					
1	41	54	W3-3(30)		SIGNAL AHEAD (Symbol) - 30x30				0	REPOSITION	0	0	0		0	0	0	SOIL	1	0	0	
2	41		W16-8P		ADVANCE STREET NAME (1 - line plaque)	54			0	REPOSITION	0	0	0		0	0	0		0	0	0	Limestone Road
4	41	56	R1-2(36)		YIELD				0	REPOSITION	0	0	0		0	0	0	SOIL	1	0	0	
5	41	57	S1-1(30)		SCHOOL SIGN (Symbol) - 30x30				0	REMOVE	0	1	0		0	0	0		0	0	0	
6	41		D4-3-DE		BUS STOP (DART)				0	REPOSITION	0	1	1		0	0	0	SOIL	1	0	0	
7	41	58	D3-2-DE1		WELCOME TO				0	REPOSITION	0	1	1		0	0	0		1	0	0	
8	41		D3-2-DE2		DEVELOPMENT NAME	58			0	REPOSITION	0	0	0		0	0	0		0	0	0	Mermaid Run
9	41		R3-20-DE	1	TURN LANE	58	18	18	2	NEW	2	0	0		0	0	0		0	0	0	
10	41	59	R4-7(24)		KEEP RIGHT (Symbol) - 24x30				0	REMAIN	0	0	0		0	0	0	SOIL	0	0	0	
12	41	60	D3-2-DE1		WELCOME TO				0	REMAIN	0	0	0		0	0	0		0	0	0	
13	41		D3-2-DE2		DEVELOPMENT NAME	60			0	REMAIN	0	0	0		0	0	0		0	0	0	Linden Heath
14	41	61	W1-7(48)		TWO DIRECTIONAL LARGE ARROW - 48x24				0		0	0	0	REMAIN	0	0	0	CONCRETE	0	0	0	
15	41	61	OM4-3		END OF ROAD OBJECT MARKER	80			0	REMAIN	0	0	0		0	0	0		0	0	0	
16	41	62	W11-2(30)	1	PEDESTRIAN (Symbol) - 30x30		30	30	6	NEW	6	0	1		0	0	0	SOIL	1	0	0	
17	41	63	W1-10_R(36)	1	COMBINATION HORIZONTAL ALIGNMENT/INTERSECTION (Right) - 36x36		36	36	9	NEW	9	0	1		0	0	0	SOIL	1	0	0	
18	41		W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	63	36	9	2	NEW	2	0	0		0	0	0		0	0	0	Mermaid Blvd
19	41		W13-1P-25(18)	1	ADVISORY SPEED (25 MPH) 18x18	63	18	18	2	NEW	2	0	0		0	0	0		0	0	0	
20	41	64	R3-20-DE	1	TURN LANE		18	18	2	NEW	2	0	1		0	0	0	SOIL	1	0	0	
21	41	65	S1-1(30)		SCHOOL SIGN (Symbol) - 30x30				0	REMOVE	0	1	0		0	0	0		0	0	0	
22	41	66	R1-2(36)		YIELD				0	REPOSITION	0	0	0		0	0	0	SOIL	1	0	0	
23	41	67	W11-2(30)		PEDESTRIAN (Symbol) - 30x30				0	REMAIN	0	0	0		0	0	0		0	0	0	
24	41		R2-1-25(24)		SPEED LIMIT (25 MPH - 24x30)	67			0	REMAIN	0	0	0		0	0	0		0	0	0	
25	41	68	R4-7(24)		KEEP RIGHT (Symbol) - 24x30				0	REMAIN	0	0	0		0	0	0		0	0	0	
26	41	69	R1-1(30)		STOP				0	REMAIN	0	0	0		0	0	0		0	0	0	
27	41		D3-1(9)	1	STREET NAME (1 Line)	70	42	9	3	ADD TO EXIST.	3	0	0		0	0	0		0	0	0	Brigantine Ct
28	41		D3-1(9)	1	STREET NAME (1 Line)	70	30	9	2	ADD TO EXIST.	2	0	1		0	0	0		0	0	0	Skyline Dr
29	41		R6-3(30)	1	DIVIDED HIGHWAY CROSSING (4 - Legged Intersection) - 30x24	70	30	24	5	ADD TO EXIST.	5	0	0		0	0	0		0	0	0	
30	41	70	R1-2(36)		YIELD				0	REPOSITION	0	1	1		0	0	0	SOIL	0	0	0	
31	41	71	R4-7(24)		KEEP RIGHT (Symbol) - 24x30		24	30	5	REMAIN	0	0	0		0	0	0	SOIL	0	0	0	
32	41	72	W1-10_L(36)		COMBINATION HORIZONTAL ALIGNMENT/INTERSECTION (Left) - 36x36				0	REPOSITION	0	1	1		0	0	0	SOIL	1	0	0	
33	41		W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	72	36	9	2	NEW	2	0	0		0	0	0		0	0	0	Mermaid Blvd
34	41		W13-1P-20(18)	1	ADVISORY SPEED (20 MPH) 18x18	72	18	18	2	NEW	2	0	0		0	0	0		0	0	0	
35	41		W11-2(30)		PEDESTRIAN (Symbol) - 30x30	72			0	REMOVE	0	0	0		0	0	0		0	0	0	
36	41	73	R7-4-DE(12)		NO STOPPING, STANDING, OR PARKING - 12x18				0	REPOSITION	0	1	1		0	0	0		0	0	0	
37	41		W1-8(30)		CHEVRON ALIGNMENT - 30x36	73			0	REPOSITION	0	0	0		0	0	0	SOIL	0	0	0	
38	41	74	W1-8(30)		CHEVRON ALIGNMENT - 30x36				0	REPOSITION	0	1	1		0	0	0	SOIL	0	0	0	
39	41	75	R5-1a(30)		WRONG WAY - 30x18				0	REMOVE	0	1	0		0	0	0		0	0	0	
40	41	76	W1-8(30)		CHEVRON ALIGNMENT - 30x36				0	REPOSITION	0	1	1		0	0	0	SOIL	0	0	0	
37	41	77	D4-3-DE		BUS STOP (DART)				0	REPOSITION	0	1	1		0	0	0	SOIL	0	0	0	
13	41	78	W1-8(30)		CHEVRON ALIGNMENT - 30x36				0	REPOSITION	0	1	1		0	0	0	SOIL	0	0	0	
38	41	79	D3-2-DE1		WELCOME TO				0	REMAIN	0	0	0		0	0	0		0	0	0	
39	41		D3-2-DE2		DEVELOPMENT NAME	79			0	REMAIN	0	0	0		0	0	0		0	0	0	Linden Heath

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT: T201200102
COUNTY: NC
BRIDGE NO.: N/A
DESIGNED BY: BLK
CHECKED BY: DMO

SIGNING, STRIPING AND CONDUIT PLAN

SS-07
SHEET NO. 45
TOTAL SHTS. 51

UNOFFICIAL WEBSITE COPY

SIGN SCHEDULE

NO.	SHEET NO.	PLAN INDICATOR	CODE (DE-MUTCD)	QTY.	DISCRIPTION	ASSEMBLY NO.	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	SIGN AREA (SF)	ITEM 749687 SINGLE POST (EACH)				ITEM 749690 MULTI POST (SF)				POST INSTALLATION TYPE	Code X11 12' Post (W/ Basepost)	ITEM 749688 4" HOLE, 0-6" (EACH)	ITEM 749689 4" HOLE, >6" (EACH)	REMARKS
										SIGN DISPOSTION	TOTAL SIGN AREA (SF)	REMOVE	INSTALL	SIGN DISPOSTION	TOTAL SIGN AREA (SF)	REMOVE	INSTALL					
1	41	81	R1-2(36)		YIELD				0	REPOSITION	0	1	1		0	0	0	SOIL	1	0	0	
2	41	82	W1-8(30)		CHEVRON ALIGNMENT - 30x36				0	REPOSITION	0	1	1		0	0	0	CONCRETE	1	1	0	
3	41	83	R1-1(30)		STOP				0	REPOSITION	0	1	1		0	0	0	CONCRETE	1	1	0	
4	41		D3-1(9)	1	STREET NAME (1 Line)	83	30	9	2	NEW	2	0	0		0	0	0		0	0	0	Mermaid Blvd
5	41		D3-1(9)	1	STREET NAME (1 Line)	83	30	9	2	NEW	2	0	0		0	0	0		0	0	0	Skyline Dr
6	41		R6-3(30)	1	DIVIDED HIGHWAY CROSSING (4 - Legged Intersection) - 30x24	83	30	24	5	NEW	5	0	0		0	0	0		0	0	0	
7	41	84	W6-3(36)		TWO - WAY TRAFFIC (Symbol) - 36x36		36	36	9	REMAIN	0	0	0		0	0	0	SOIL	0	0	0	
8	41	85	R1-2(36)		YIELD				0	REPOSITION	0	1	1		0	0	0	SOIL	1	0	0	
9	41	86	R2-1-35(24)		SPEED LIMIT (35 MPH - 24x30)				0	REMAIN	0	0	0		0	0	0		0	0	0	
2	41		W1-8(30)		CHEVRON ALIGNMENT - 30x36	86	24	30	5	REMAIN	0	0	0		0	0	0		0	0	0	
10	41	87	R1-1(30)		STOP				0	REMAIN	0	0	0		0	0	0		0	0	0	
11	41		D3-1(9)	1	STREET NAME (1 Line)	87	30	9	2	ADD TO EXIST.	2	0	0		0	0	0		0	0	0	Skyline Dr
12	41	88	R4-7a(24)		KEEP RIGHT (Arrow) - 24x30				0	REMAIN	0	0	0		0	0	0		0	0	0	
13	41	89	W1-8(30)		CHEVRON ALIGNMENT - 30x36				0	REMAIN	0	0	0		0	0	0		0	0	0	
14	41	90	W1-8(30)		CHEVRON ALIGNMENT - 30x36				0	REMAIN	0	0	0		0	0	0		0	0	0	
15	41	91	W1-8(30)		CHEVRON ALIGNMENT - 30x36				0	REMAIN	0	0	0		0	0	0		0	0	0	
16	41								0		0	0	0		0	0	0		0	0	0	
17	41								0		0	0	0		0	0	0		0	0	0	
18	41								0		0	0	0		0	0	0		0	0	0	
19	41								0		0	0	0		0	0	0		0	0	0	
20	41								0		0	0	0		0	0	0		0	0	0	
21	41								0		0	0	0		0	0	0		0	0	0	
22	41								0		0	0	0		0	0	0		0	0	0	
23	41								0		0	0	0		0	0	0		0	0	0	
24	41								0		0	0	0		0	0	0		0	0	0	
25	41								0		0	0	0		0	0	0		0	0	0	
26	41								0		0	0	0		0	0	0		0	0	0	
27	41								0		0	0	0		0	0	0		0	0	0	
28	41								0		0	0	0		0	0	0		0	0	0	
29	41								0		0	0	0		0	0	0		0	0	0	
30	41								0		0	0	0		0	0	0		0	0	0	
31	41								0		0	0	0		0	0	0		0	0	0	
32	41								0		0	0	0		0	0	0		0	0	0	
33	41								0		0	0	0		0	0	0		0	0	0	
34	41								0		0	0	0		0	0	0		0	0	0	
35	41								0		0	0	0		0	0	0		0	0	0	
36	41								0		0	0	0		0	0	0		0	0	0	
37	41								0		0	0	0		0	0	0		0	0	0	
38	41								0		0	0	0		0	0	0		0	0	0	
39	41								0		0	0	0		0	0	0		0	0	0	
40	41								0		0	0	0		0	0	0		0	0	0	

SS-08

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT T201200102 | COUNTY NC | BRIDGE NO. N/A | DESIGNED BY: BLK | CHECKED BY: DMO

SIGNING, STRIPING AND CONDUIT PLAN

SHEET NO. 46 | TOTAL SHTS. 51

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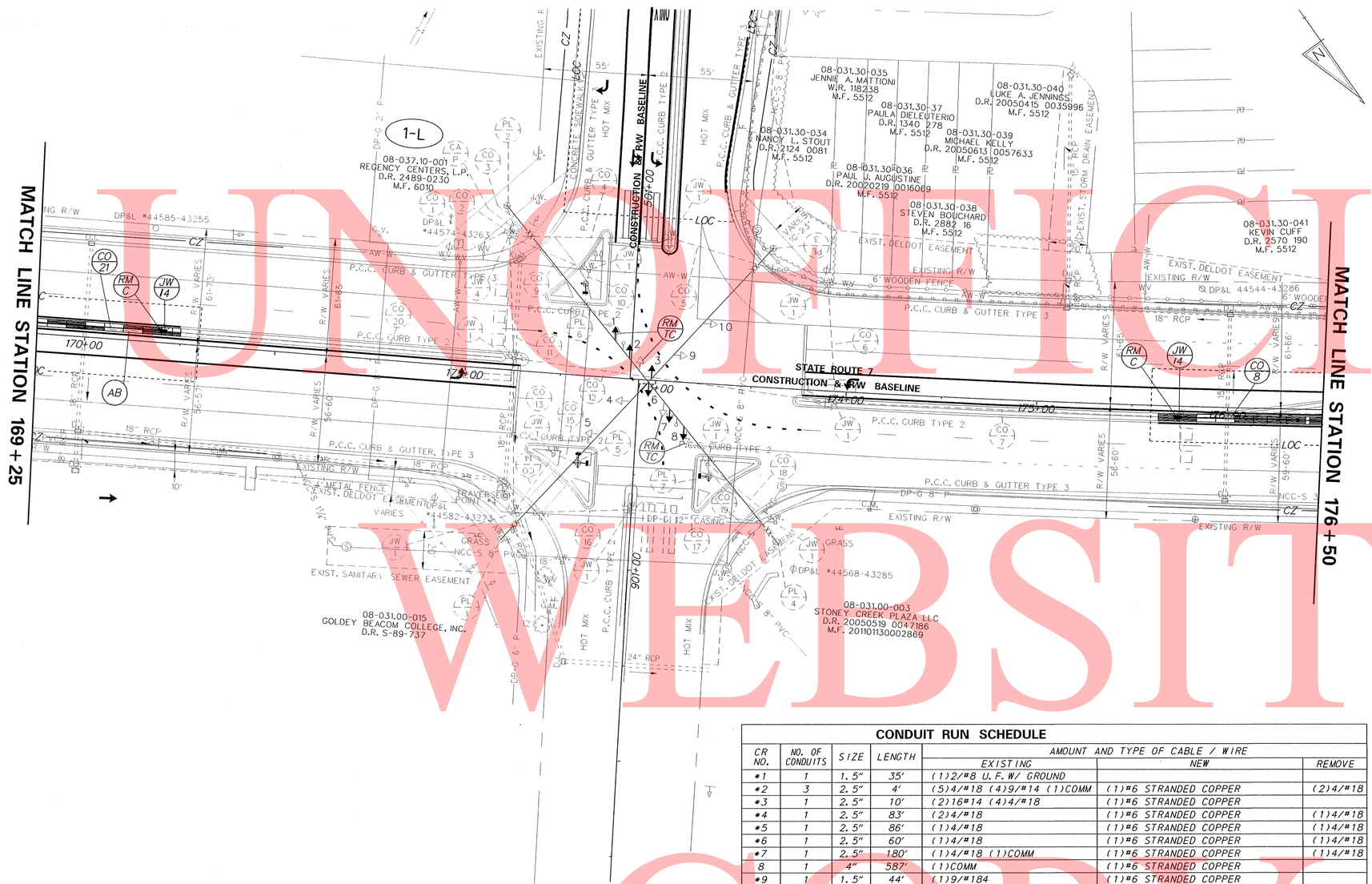
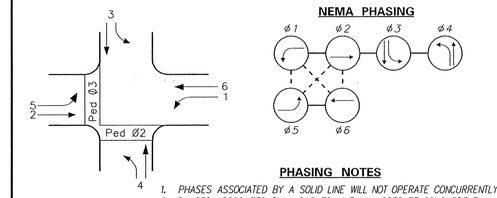


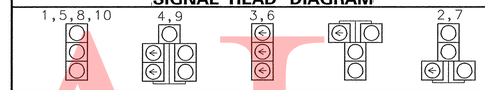
SIGNAL PHASING



PHASING NOTES

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

SIGNAL HEAD DIAGRAM



LEGEND

AB	ABANDON	OH #	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
CA X	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	OH #	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
CA X	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	PB X	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
CO #	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	PB X	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
CO #	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	PL X	EXISTING POLE IDENTIFIER (# OF POLE)
JW X	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	PL X	PROPOSED POLE IDENTIFIER (# OF POLE)
JW X	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	RM C	REMOVE BY CONTRACTOR
MA XX	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	RM O	REMOVE BY OTHERS
MA XX	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	RM TC	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		P
SIGNAL CABINET		
SIGNAL HEAD		
SIGNAL POLE/BASE		
SPAN INSULATOR		
SPAN WIRE	XX	
UTILITY POLE		
VIDEO DETECTION		

GENERAL SIGNAL NOTES

1. ALL SIGNAL POLES WILL BE 28 FEET, EXCEPT WHERE SHOWN.
2. ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
3. POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER. EXISTING CONDUIT IS TO BE ABANDONED.
4. 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.
5. 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.

CONDUIT RUN SCHEDULE

CR NO.	NO. OF CONDUITS	SIZE	LENGTH	AMOUNT AND TYPE OF CABLE / WIRE		
				EXISTING	NEW	REMOVE
*1	1	1.5"	35'	(1)2/#8 U.F. W/ GROUND		
*2	3	2.5"	4'	(5)4/#18 (4)9/#14 (1)COMM	(1)#6 STRANDED COPPER	(2)4/#18
*3	1	2.5"	10'	(2)16#14 (4)4/#18	(1)#6 STRANDED COPPER	
*4	1	2.5"	83'	(2)4/#18	(1)#6 STRANDED COPPER	(1)4/#18
*5	1	2.5"	86'	(1)4/#18	(1)#6 STRANDED COPPER	(1)4/#18
*6	1	2.5"	60'	(1)4/#18	(1)#6 STRANDED COPPER	(1)4/#18
*7	1	2.5"	180'	(1)4/#18 (1)COMM	(1)#6 STRANDED COPPER	(1)4/#18
8	1	4"	587'	(1)COMM	(1)#6 STRANDED COPPER	
*9	1	1.5"	44'	(1)9/#184	(1)#6 STRANDED COPPER	
*10	1	1.5"	6'	(1)9/#14	(1)#6 STRANDED COPPER	
*11	2	2.5"	63'	(3)9/#14 (3)4/#18 (1)COMM	(1)#6 STRANDED COPPER	(1)4/#18
*12	1	2.5"	169'	(1)COMM	(1)#6 STRANDED COPPER	
*13	1	2.5"	79'	(3)9/#14 (1)4/#18	(1)#6 STRANDED COPPER	
*14	1	2.5"	30'	(2)9/#14 (1)4/#18	(1)#6 STRANDED COPPER	
*15	1	2.5"	12'	(2)9/#14 (1)4/#18	(1)#6 STRANDED COPPER	
*16	1	2.5"	59'	(1)9/#14 (1)4/#18	(1)#6 STRANDED COPPER	
*17	1	2.5"	76'	(1)9/#14	(1)#6 STRANDED COPPER	
*18	1	2.5"	46'	(1)9/#14	(1)#6 STRANDED COPPER	
*19	1	2.5"	5'	(1)9/#14	(1)#6 STRANDED COPPER	
*20	1	2.5"	182'	(1)COMM	(1)#6 STRANDED COPPER	(1)4/#18
21	1	4"	568	(1)COMM	(1)#6 STRANDED COPPER	

* DENOTES EXISTING

ADDITIONAL SIGNAL NOTES

6. THE PROPOSED POLE BASE TYPE 4 AND PEDESTAL POLE FOR PEDESTRIAN SIGNAL SHALL BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE LANDING AREA OF THE CURB RAMP OR SIDEWALK IN ACCORDANCE WITH CURRENT ADA BEST PRACTICES. THE PEDESTRIAN PUSH BUTTON SHALL BE INSTALLED AT HEIGHT OF 42 INCHES ABOVE THE LANDING AREA/SIDEWALK, AND SHALL BE LOCATED SUCH THAT MAXIMUM REACH IS 10 INCHES.
7. ALL PEDESTRIAN SIGNAL HEADS SHALL BE COUNTDOWN.
8. ADD COUNT-DOWN PEDESTRIAN SIGN "R10-3E" TO EACH PEDESTRIAN POLE.

UNOFFICIAL WEBSITE COPY

RECOMMENDED _____ DATE: _____

RECOMMENDED _____ DATE: _____

RECOMMENDED _____ DATE: 9/27/13

APPROVED TRAFFIC ENGINEER _____ DATE: 9/27/13

APPROVED FOR INSTALLATION
CHIEF TRAFFIC ENGINEER _____ DATE: 10/1/13

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

SCALE 0 30 60 90 FEET

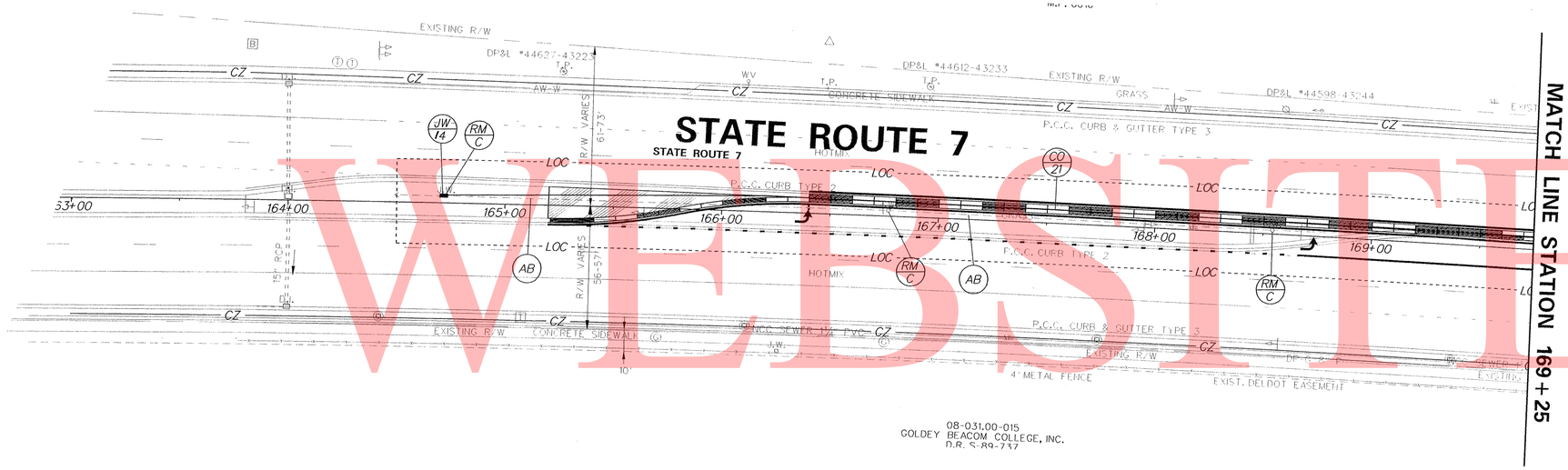
HEP, SR 7 AT SKYLINE DR /MERMAID STONEY BATTER RD INTERSECTION IMPROVEMENTS

CONTRACT	PERMIT NO.	N261
T201200102	DESIGNED BY: MG	
COUNTY		
NC	CHECKED BY: MH	

SIGNAL PLAN
DE 7 & SKYLINE DR/ STONEY BATTER RD

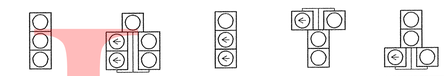
SHEET NO. 47
TOTAL SHTS. 51

UNOFFICIAL WEBSITE COPY



SIGNAL PHASING

SIGNAL HEAD DIAGRAM



LEGEND

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

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL		
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		P
SIGNAL CABINET		
SIGNAL HEAD		
SIGNAL POLE/BASE		
SPAN INSULATOR		
SPAN WIRE		
UTILITY POLE		
VIDEO DETECTION		

GENERAL SIGNAL NOTES

1. DETECTION - XX M.P.H. - 4 SECONDS PASSAGE TIME AT XX FEET FROM STOP BAR.
2. LOOP DETECTORS:
   TYPE #1 - 6' x 6' - TO BE INSTALLED ON MAIN STREET THROUGH MOVEMENTS.
   TYPE #2 - 6' x 25' - TO BE INSTALLED ON MAIN STREET LEFT TURN MOVEMENTS.
   TYPE #2 - 6' x 25' - TO BE INSTALLED ON SIDE STREET THROUGH AND LEFT TURN MOVEMENTS.
3. ALL SIGNAL POLES WILL BE XX FEET, EXCEPT WHERE SHOWN.
4. CO #1 IS NOT DRAWN TO SCALE, NOR IS THE DIRECTION NECESSARILY CORRECT.
5. ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
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RECOMMENDED _____ DATE: _____

RECOMMENDED _____ DATE: _____

RECOMMENDED [signature] DATE: 9/27/13

APPROVED TRAFFIC ENGINEER [signature] DATE: 9/27/13

APPROVED FOR INSTALLATION
CHIEF TRAFFIC ENGINEER [signature] DATE: 10/1/13

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

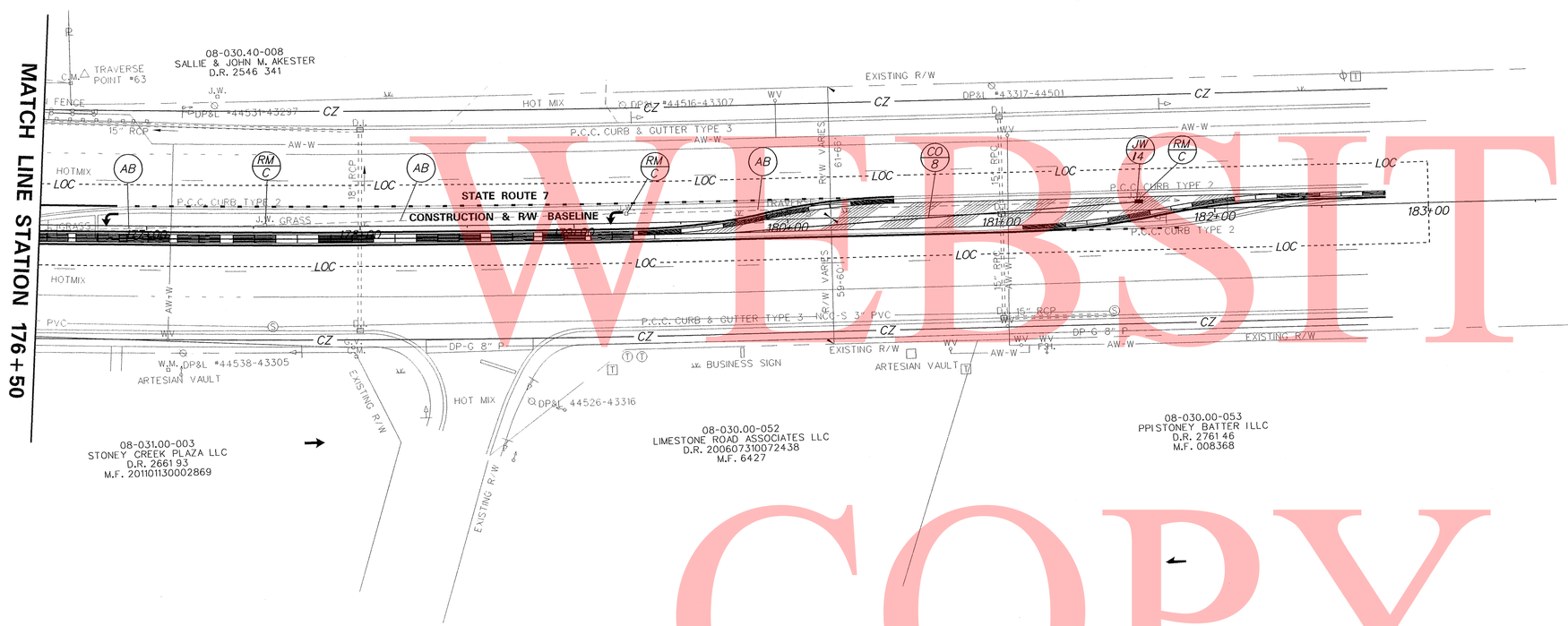
SCALE 0 30 60 90 FEET

HEP, SR 7 AT SKYLINE DR /MERMAID STONEY BATTER RD INTERSECTION IMPROVEMENTS

CONTRACT	PERMIT NO.	N261	SIGNAL PLAN
T201200102	DESIGNED BY: MG		DE 7 & SKYLINE DR/
COUNTY	CHECKED BY: MH		STONEY BATTER RD
NC			

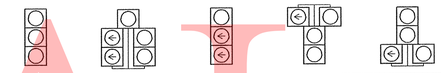
SHEET NO. 48
TOTAL SHTS. 51

UNOFFICIAL WEBSITE COPY



SIGNAL PHASING

SIGNAL HEAD DIAGRAM



LEGEND

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CO *	PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)	PL X	EXISTING POLE IDENTIFIER (* OF POLE)
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JW X	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	RM C	REMOVE BY CONTRACTOR
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	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		P
SIGNAL CABINET		
SIGNAL HEAD		
SIGNAL POLE/BASE		
SPAN INSULATOR		
SPAN WIRE	XX	
UTILITY POLE		
VIDEO DETECTION		

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RECOMMENDED _____ DATE: _____

RECOMMENDED _____ DATE: _____

RECOMMENDED _____ DATE: 9/27/13

APPROVED TRAFFIC ENGINEER _____ DATE: 9/27/13

APPROVED FOR INSTALLATION
CHIEF TRAFFIC ENGINEER _____ DATE: 10/1/13

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

SCALE 0 30 60 90 FEET

HEP, SR 7 AT SKYLINE DR /MERMAID STONEY BATTER RD INTERSECTION IMPROVEMENTS

CONTRACT	T201200102
COUNTY	NC
PERMIT NO.	N261
DESIGNED BY: MG	
CHECKED BY: MH	

SIGNAL PLAN

DE 7 & SKYLINE DR/ STONEY BATTER RD

SHEET NO.	49
TOTAL SHTS.	51

RECOMMENDED

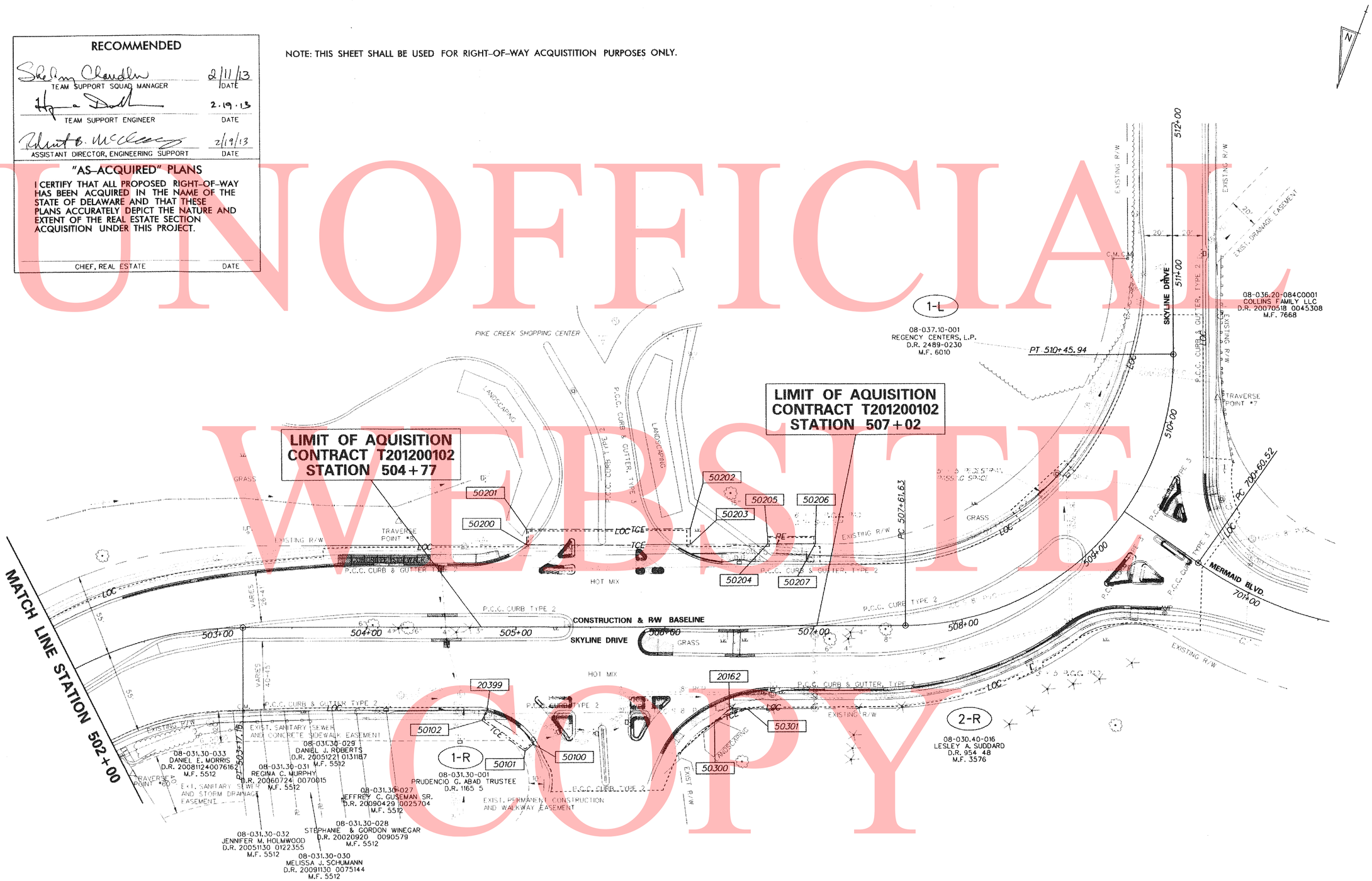
TEAM SUPPORT SQUAD MANAGER	2/11/13 DATE
TEAM SUPPORT ENGINEER	2.19.13 DATE
ASSISTANT DIRECTOR, ENGINEERING SUPPORT	2/19/13 DATE

"AS-ACQUIRED" PLANS

I CERTIFY THAT ALL PROPOSED RIGHT-OF-WAY HAS BEEN ACQUIRED IN THE NAME OF THE STATE OF DELAWARE AND THAT THESE PLANS ACCURATELY DEPICT THE NATURE AND EXTENT OF THE REAL ESTATE SECTION ACQUISITION UNDER THIS PROJECT.

CHIEF, REAL ESTATE — DATE

NOTE: THIS SHEET SHALL BE USED FOR RIGHT-OF-WAY ACQUISTITION PURPOSES ONLY.



UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	CONTRACT T201200102 / COUNTY NC	BRIDGE NO. N/A / DESIGNED BY: BLK / CHECKED BY: DMO	RIGHT-OF-WAY PLAN	SHEET NO. 50 / TOTAL SHTS. 51

W:\MSV8\CELLS\PROJDEV\SBLCK

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
1-R	(08-031.30-001) PRUDENCIO G. ABAD TRUSTEE	TCE	1165 5	0.2026

ALIGNMENT NUMBER & DESCRIPTION: 10100 - SKYLINE DRIVE

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
20399	10100	504+80.64	55.00	634303.2873	578258.0827			N 73°58'12.31" W	37.9622	38.9387	50.0000
50100	10100	505+11.12	77.63	634313.7701	578221.5966	N 29°06'08.33" E	7.0000				
50101	10100	505+05.78	82.16	634319.8864	578225.0012	S 74°58'42.55" E	35.0000				
50102	10100	504+77.32	61.79	634310.8150	578258.8052	S 5°28'56.09" W	7.5623				
20399	10100	504+80.64	55.00	634303.2873	578258.0827						

FIGURE 50100 AREA = 355.3939 SQ. FT. (0.0082 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
2-R	(08-030.40-016) LESLEY A. SUDDARD	TCE	954 48	9.86

ALIGNMENT NUMBER & DESCRIPTION: 10100 - SKYLINE DRIVE

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
50300	10100	506+33.10	63.67	634257.8480	578112.2862	S 28°37'35.61" W	13.5000				
20162	10100	506+43.32	54.84	634245.9982	578105.8183	S 69°26'10.61" W	12.0000				
50301	10100	506+55.32	54.84	634241.7832	578094.5829	N 47°46'40.35" E	23.9057				
50300	10100	506+33.10	63.67	634257.8480	578112.2862						

FIGURE 50400 AREA = 52.9375 SQ. FT. (0.0012 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
1-L	(08-037.10-001) REGENCY CENTERS, L.P.	TCE	2489 230	29.28

ALIGNMENT NUMBER & DESCRIPTION: 10100 - SKYLINE DRIVE

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
50200	10100	505+07.36	-55.00	634190.9096	578271.6994	S 20°33'49.39" E	10.5000				
50201	10100	505+07.36	-65.50	634181.0787	578275.3875	S 69°26'10.61" W	110.0000				
50202	10100	506+17.36	-65.50	634142.4413	578172.3965	N 20°33'49.39" W	10.5000				
50203	10100	506+17.36	-55.00	634152.2723	578168.7083	N 69°26'10.61" E	110.0000				
50200	10100	505+07.36	-55.00	634190.9096	578271.6994						

FIGURE 50200 AREA = 1155.0000 SQ. FT. (0.0265 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
1-L	(08-037.10-001) REGENCY CENTERS, L.P.	P/E	2489 230	29.28

ALIGNMENT NUMBER & DESCRIPTION: 10100 - SKYLINE DRIVE

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
50204	10100	506+69.37	-55.00	634134.0035	578120.0115	S 20°33'49.39" E	5.0000				
50205	10100	506+69.37	-60.00	634129.3221	578121.7677	S 69°26'10.61" W	32.0000				
50206	10100	507+01.37	-60.00	634118.0821	578091.8067	N 20°33'49.39" W	5.0000				
50207	10100	507+01.37	-55.00	634122.7635	578090.0504	N 69°26'10.61" E	32.0000				
50204	10100	506+69.37	-55.00	634134.0035	578120.0115						

FIGURE 50300 AREA = 160.0000 SQ. FT. (0.0037 ACRES)

COUNTY ASSESSMENT PARCEL NUMBER	PLAN SHEET NUMBER	OWNERSHIP OF RECORD	TITLE SOURCE	PROPERTY AREA BEFORE ACQUISITION (ACRE) D=DEED C=CALCULATED A=ASSESMENT	ACQUISITION CODE FEE, R/W, P/E, TCE	AREA TO BE ACQUIRED: ACQUISITION (SQ. FEET /ACRES)	AREA TO BE ACQUIRED: AREA OCCUPIED BY EXISTING RIGHT OF WAY (SQ. FEET /ACRES)	AREA TO BE ACQUIRED: EASEMENT: PERMANENT (SQ. FEET /ACRES)	AREA TO BE ACQUIRED: EASEMENT: TEMPORARY (SQ. FEET /ACRES)	PROPERTY AREA REMAINING (SQ. FEET /ACRES)	DEED RECORD OF ACQUISTITION	REMARKS
1-R	44	(08-031.30-001) PRUDENCIO G. ABAD TRUSTEE	1165 5	D - 0.20	TCE				355.3939 / 0.01	8824.11 / 0.20		
2-R	44	(08-030.40-016) LESLEY A. SUDDARD	3576	C - 9.86	TCE				52.9375 / 0.00	429655.49 / 9.86		
1-L	44	(08-037.10-001) REGENCY CENTERS, L.P.	2489 230	C - 29.28	TCE				1155.00 / 0.03			
					P/E			160.00 / 0.00		1275578.79 / 29.28		

LEGEND

FEE AREA OF ACQUISITION
R/W AREA OCCUPIED BY EXISTING R/W
P/E PERMANENT EASEMENT
TCE TEMPORARY CONSTRUCTION EASEMENT

* "-" OFFSET IS LEFT OF BASELINE
** "-" CURVE TURNS TO THE LEFT

ACQUISITION CODES

FEE - ACQUISITION
R/W - AREA OCCUPIED BY EXISTING R/W
P/E - PERMANENT EASEMENT
TCE - TEMPORARY EASEMENT

UNOFFICIAL WEBSITE COPY

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

HEP, SR 7 AT SKYLINE DRIVE /MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201200102	DESIGNED BY: BLK	
COUNTY		
NC	CHECKED BY: DMO	

RIGHT-OF-WAY DATA AND TABULATION SHEET

SHEET NO. 51
TOTAL SHTS. 51