

U.S. CUSTOMARY  
UNITS

THE STATE OF DELAWARE  
DEPARTMENT OF TRANSPORTATION



CONSTRUCTION PLANS FOR:

US 13 @ ALLENS MILL ROAD/  
IRON HILL ROAD (S454A)

CONTRACT NUMBER: T201000901  
FEDERAL AID PROJECT NUMBER: ESTP-S454(2)

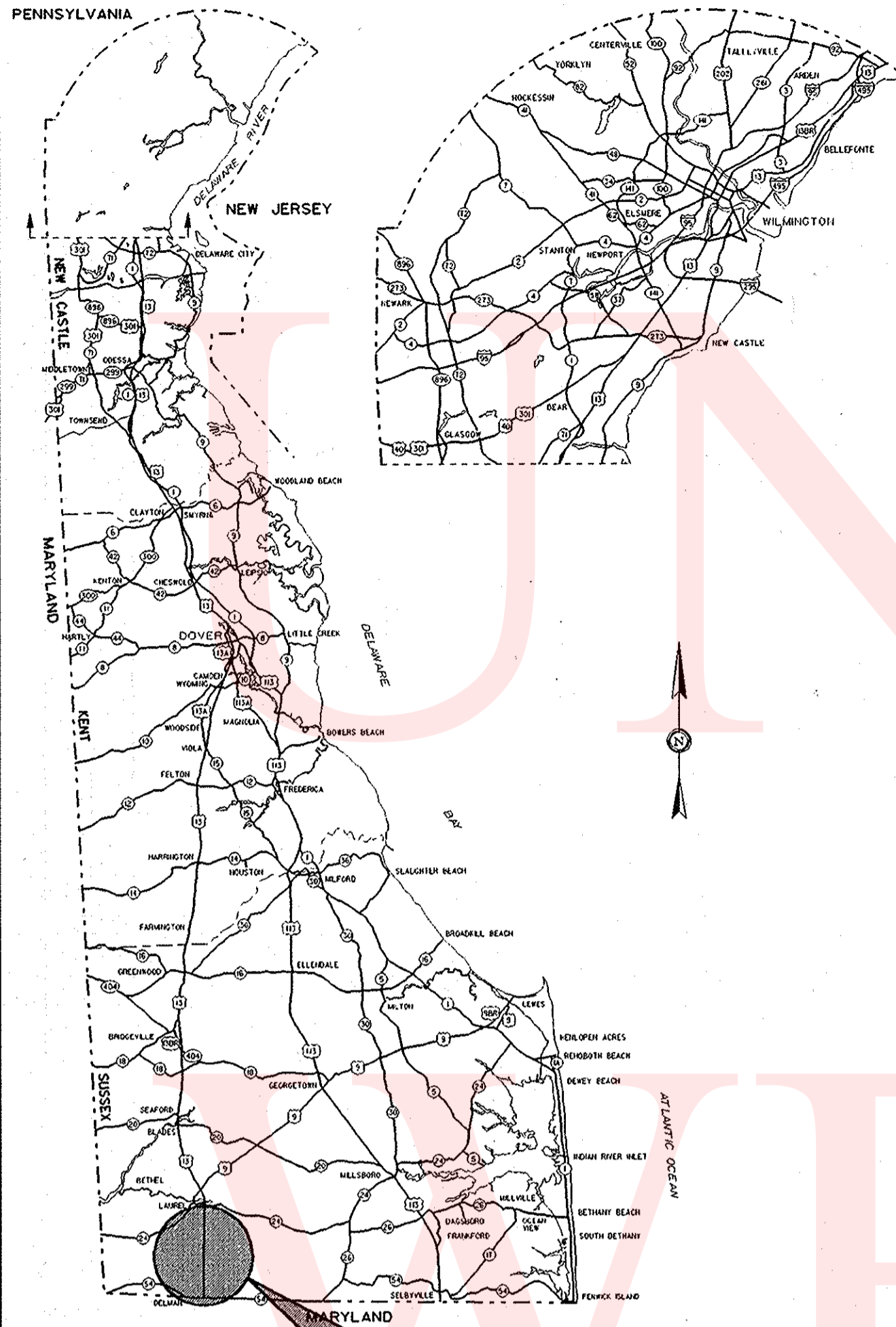
COUNTY: SUSSEX M.R. #: S454A

DESIGN DESIGNATION

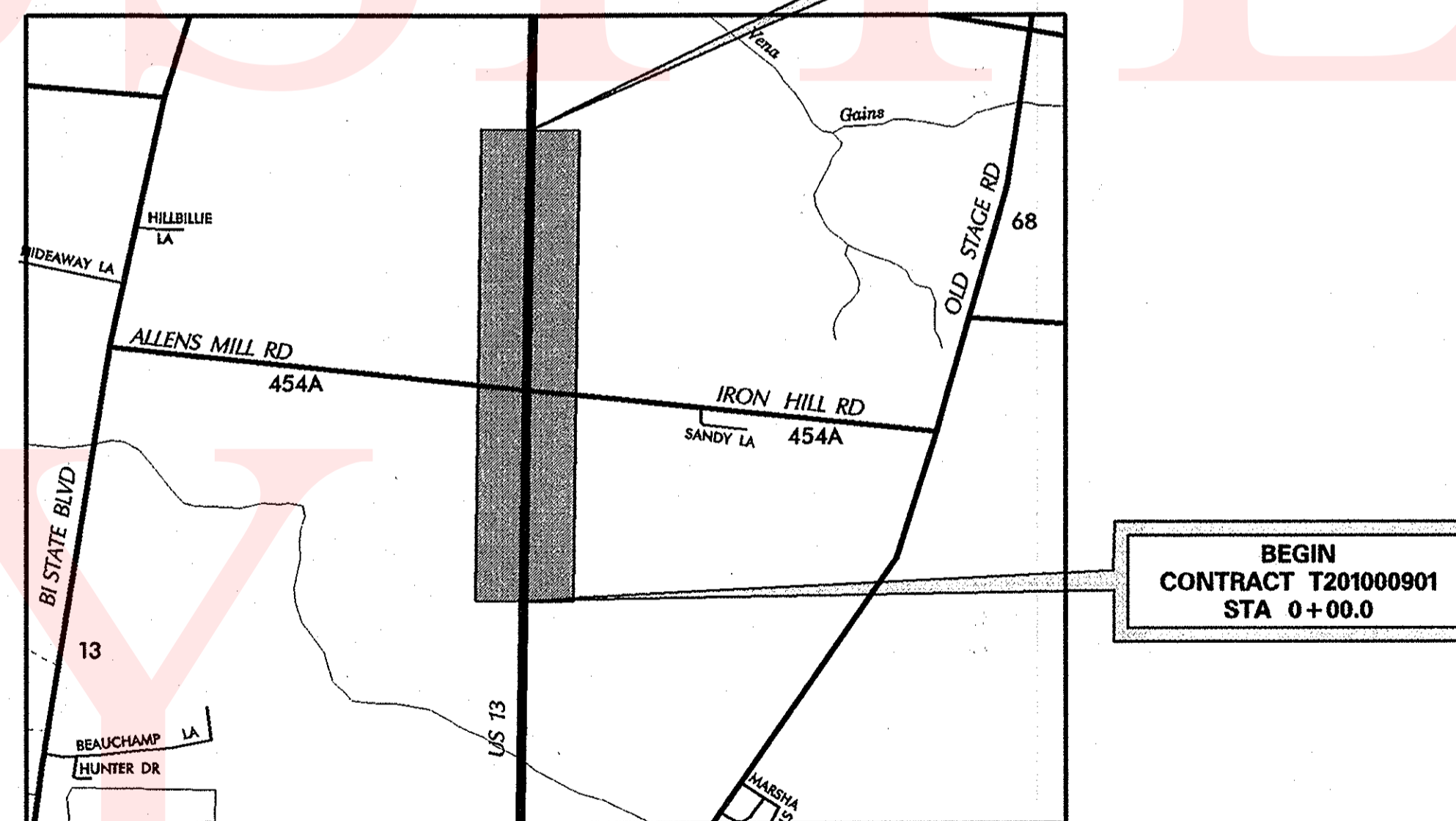
FUNCTIONAL CLASS: ARTERIAL	D.H.V. PROJECTED: N/A	YEAR: N/A
TYPE OF CONSTRUCTION: SAFETY IMPROVEMENT	DESIGN SPEED: N/A M.P.H.	
A.A.D.T. CURRENT: N/A	YEAR: N/A	TRUCKS: N/A %
A.A.D.T. PROJECTED: N/A	YEAR: N/A	DIRECTION OF DISTRIBUTION: N/A %

INDEX OF SHEETS

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GENERAL LOCATION OF CONTRACT



END  
CONTRACT T201000901  
STA 32+50.0

BEGIN  
CONTRACT T201000901  
STA 0+00.0

TOTAL SHEETS: 24

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME
1149	DELMAR TO GEORGETOWN LAUREL RD.
84-063-G1	US 13 MD. LINE TO LAUREL

PREPARED BY  
THE CONSULTING FIRM OF

RECOMMENDED

DATE

SEAL

RECOMMENDED

DATE

Wayne Massey  
SQUAD MANAGER, CONSTRUCTION  
10/6/11  
DATE

Bradford L. Sabat  
GROUP ENGINEER, CONSTRUCTION  
10/5/2011  
DATE

N/A  
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS  
(CONSTRUCTION)  
DATE

RECOMMENDED

STORMWATER ENGINEER

DATE

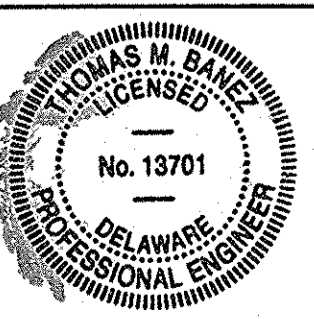
SEAL

RECOMMENDED

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

DATE 10/6/11

SEAL



RECOMMENDED

BRIDGE DESIGN ENGINEER

DATE

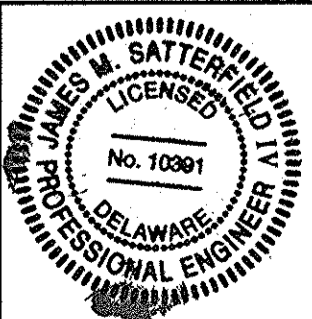
SEAL

RECOMMENDED

GROUP ENGINEER, PROJECT DEVELOPMENT

DATE 10/11/11

SEAL

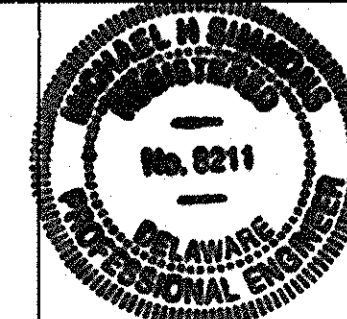


RECOMMENDED

ASSISTANT DIRECTOR,  
TRANSPORTATION SOLUTIONS

DATE 10/11/11

SEAL



APPROVED

CHIEF ENGINEER

DATE 10/11/11

SEAL







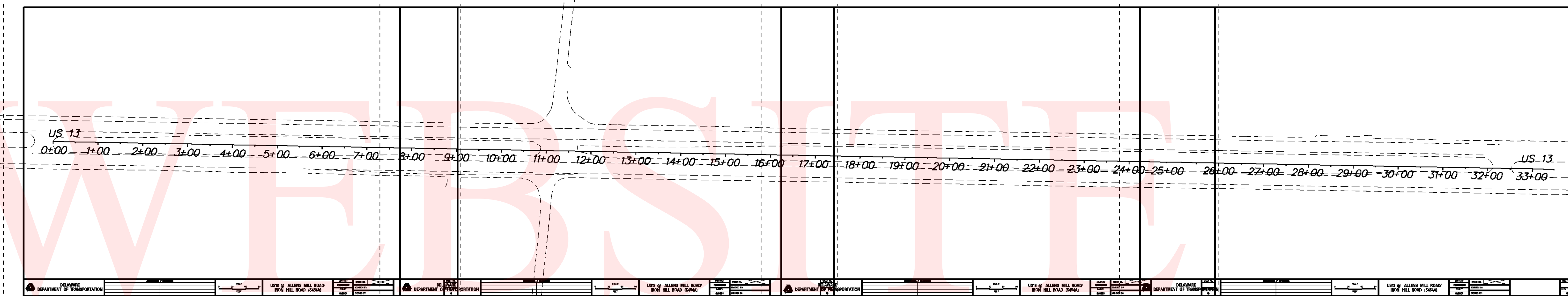
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7 12 21

8 13 22

9 14 23

10 15 24



COPY

PLAN SHEET INDEX CROSS REFERENCE

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GRADES AND GEOMETRICS	12	13	14	15
SIGNING, STRIPING AND CONDUIT PLAN	21	22	23	24



DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS


NOT TO SCALE

US13 @ ALLENS MILL ROAD/  
IRON HILL ROAD (S454A)

CONTRACT T201000901	BRIDGE NO. 
COUNTY SUSSEX	DESIGNED BY: 
	CHECKED BY: 

PLAN INDEX SHEET

SHEET NO. 2
TOTAL SHTS. 24



## EXISTING SYMBOLS

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

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

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

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

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

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

UTILITY COMPANY FACILITIES	
	EASTERN SHORE NATURAL GAS
	DELMARVA POWER

## PROPOSED SYMBOLS

CONSTRUCTION	
	CONCRETE SAFETY BARRIER - PERMANENT
	BIOFILTRATION SWALE
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	BRICK PATTERNED SURFACE
	BUTT JOINT
	CONSTRUCTION BASELINE
	CONSTRUCTION SAFETY FENCE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB & GUTTER, TYPE 4
	CLEAR ZONE
	DRAINAGE INLET
	DITCH
	FENCE - METAL
	FENCE - WOOD
	FLARED END SECTION
	GUARDRAIL, TYPE 1
	GUARDRAIL, TYPE 2
	GUARDRAIL, TYPE 3
	GUARDRAIL END ANCHORAGE
	GUARDRAIL END TREATMENT, TYPE 1
	GUARDRAIL END TREATMENT, TYPE 2
	GUARDRAIL END TREATMENT, TYPE 3
	HORIZONTAL CLEARANCE
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
	LIMIT OF CONSTRUCTION
	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK @ 4"
	P.C.C. SIDEWALK @ 6"
	UNDERDRAIN
	UNDERDRAIN OUTLET

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

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

LANDSCAPING	
	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

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

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

LAST REVISED: 12/02/2010



# GENERAL NOTES

- 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.
- 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.
- 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.
- 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.
- 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.
- 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. 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. 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
( X ) MINOR	CONTRACTOR CERTIFICATION COURSE TRAINING ONLY, AS DEFINED IN SECTION 13 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
( ) MEDIUM	AT THE TIME OF BID OF THE CONTRACT, EITHER THE SUPERINTENDENT OR A SEPARATE INDIVIDUAL FROM THE CONTRACTOR'S STAFF SHALL BE A CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 12 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
( ) MAJOR	SUPERINTENDENT AND AN INDIVIDUAL FROM CONTRACTOR'S STAFF SHALL BE CCR. ONE INDIVIDUAL FROM THE CONTRACTOR'S STAFF MUST BE A CCR AT THE TIME OF BID OF THE CONTRACT. THE SUPERINTENDENT MUST BECOME A CCR WITHIN ONE YEAR AFTER THE AWARD OF CONTRACT.

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

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

- 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.
( )	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.

- THE DISTURBED AREA FOR THIS PROJECT IS 1.30 ACRES.

# PROJECT NOTES

## SECTION 100

- ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL, AS PART OF HIS PROJECT SCHEDULE, SUBMIT TO THE ENGINEER AN ESTIMATE OF THE MONTHLY PAYMENTS EXPECTED TO BE RECEIVED ON THE CONTRACT. THIS WILL BE REFERENCED AS THE "MONTHLY PAYMENT CHART".

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

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

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

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

COSTS TO PREPARE AND/OR UPDATE THE "MONTHLY PAYMENT CHART" ARE ADDRESSED AS FOLLOWS:

- ON CONTRACTS REQUIRING CPM SCHEDULES AND UPDATES, PREPARATION OF THE INITIAL CHART SHALL BE INCIDENTAL TO ITEM 763508. UPDATES SHALL BE INCIDENTAL TO ITEM 763509.
- ON CONTRACTS NOT REQUIRING CPM SCHEDULES, THE COST TO PREPARE AND UPDATE THE "MONTHLY PAYMENT CHART" SHALL BE INCLUDED IN ITEM 763000 - INITIAL EXPENSE.

## SECTION 200

- THE ENGINEER MAY REQUIRE THE CONTRACTOR TO EXCAVATE TEST PITS ALONG PROPOSED DRAINAGE RUNS, AT POINTS OF POSSIBLE UTILITY CONFLICTS, TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR, WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED. THE ENGINEER SHALL ULTIMATELY DETERMINE THE SOLUTION TO THE UTILITY CONFLICT. TEST HOLES SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 208000 - EXCAVATION AND BACKFILL FOR PIPE TRENCHES, BUT ONLY TO THE ACTUAL DEPTH EXCAVATED.
- 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

- THE CONTRACTOR MAY ELECT TO USE ANY OF THE FOLLOWING MATERIALS TO MEET THE REQUIREMENTS OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B':
    - CRUSHED STONE (PER STANDARD SPECIFICATION 821)
    - CRUSHED CONCRETE (PER STANDARD SPECIFICATION 821)
    - 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.

- 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'.
- 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.
- HOT-MIX MILLINGS MAY BE GENERATED FROM THE FOLLOWING SOURCES:
  - MATERIAL MADE AVAILABLE WHEN MILLED ON THIS CONTRACT UNDER ITEM XXXXXX.
  - MATERIAL MILLED ON THIS CONTRACT AT THE CONTRACTOR'S CHOICE UNDER ITEM 202000.
  - 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.
- PAYMENT CLARIFICATION:
  - 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.
  - MILLINGS GENERATED UNDER ITEM 760502 - PAVEMENT MILLINGS, TAPER CUT MAY BE RECYCLED INTO HOT-MIX, UTILIZED FOR BASE COURSE OR DISPOSED OF BY THE CONTRACTOR TO AN APPROVED SITE. NO SEPARATE PAYMENT WILL BE MADE FOR TRANSPORTING MILLINGS ON SITE OR TO AN APPROVED DISPOSAL SITE.
  - 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.

d. 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'.

e. 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.

f. 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 400

- THE PAVEMENT SECTION FOR HOT-MIX RESIDENTIAL DRIVEWAYS SHALL BE 2" HOT-MIX, TYPE 'C' OVER 8" GRADED AGGREGATE BASE COURSE, TYPE 'B', UNLESS OTHERWISE NOTED ON THE PLANS.

## SECTION 600

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

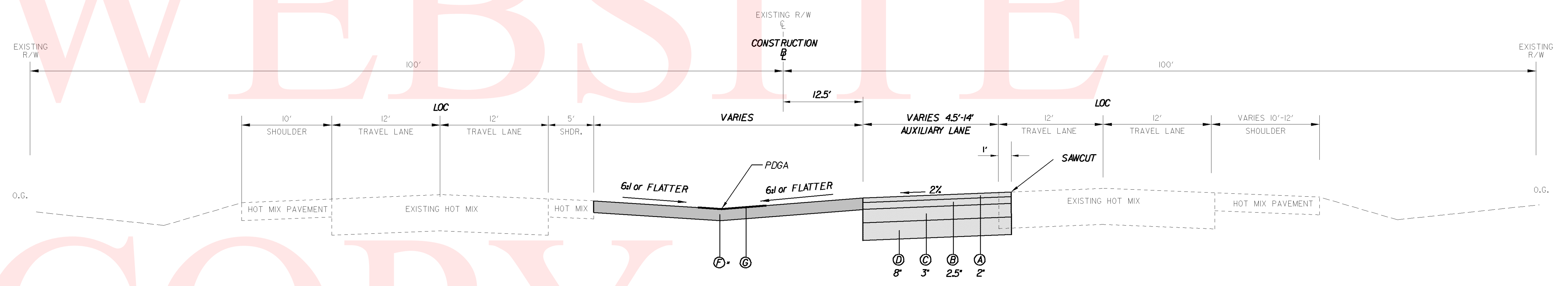
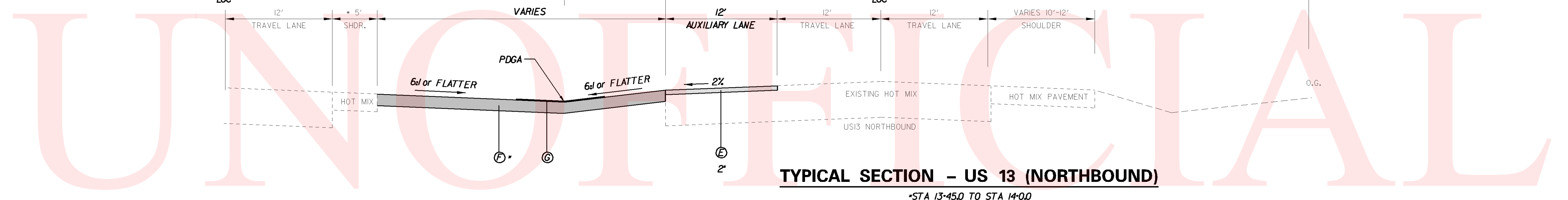
## SECTION 700

- PORTLAND CEMENT CONCRETE CHANNELIZING ISLANDS THAT ARE LESS THAN 75 SQ FT MAY BE POURED MONOLITHICALLY, OR AS DIRECTED BY THE ENGINEER.
- STATION AND ELEVATION DATA GIVEN FOR DRAINAGE STRUCTURES ARE TO BE APPLIED TO THE CENTER OF THE GRATE FOR INLETS, AND TO THE CENTER OF THE STRUCTURE FOR JUNCTION BOXES AND MANHOLES.
- DRAINAGE INLET GRATES ADJACENT TO THE ROAD, WITHIN THE PROJECT LIMITS, WHICH ARE NOT TYPE 1 SHALL BE REPLACED. THE ACTUAL LOCATIONS, THE NEED FOR ANY GRATE MODIFICATIONS OR FOR NEW FRAMES SHALL BE DETERMINED BY THE ENGINEER. ALL REPLACED GRATES/FRAMES SHALL BE DELIVERED TO THE NEAREST DISTRICT MAINTENANCE YARD WITH THE COST OF DELIVERY INCIDENTAL TO ITEM 708500 - REPLACING CATCH BASIN GRATES. FINAL PAYMENT FOR REPLACED GRATES/FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.
- 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.
- THERE ARE NO ENVIRONMENTAL PERMITS ASSOCIATED WITH THIS PROJECT. AS SUCH, AN ENVIRONMENTAL COMPLIANCE SHEET WAS NOT PREPARED.
- TUBULAR MARKERS MEETING THE REQUIREMENTS OF ITEM 720611 - FLEXIBLE DELINEATOR, PERMANENT SHALL BE INSTALLED ON THE CORNERS OF ISLANDS NOT OFFSET THE FULL WIDTH OF THE SHOULDER ADJACENT TO THE ROADWAY. THE COST OF PROVIDING AND INSTALLING THE TUBULAR MARKERS SHALL BE INCIDENTAL TO THE ISLAND CURBING ITEM BEING CONSTRUCTED. NO ADDITIONAL PAYMENT WILL BE MADE UNDER ITEM 720611 - FLEXIBLE DELINEATOR, PERMANENT.

## MISCELLANEOUS

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





\*STATION SECTIONS WITH PROPOSED DITCH WORK

LEGEND	
(A)	ITEM 401657 - SUPERPAVE TYPE C, 160 GYRATION, PG 76-22
(B)	ITEM 401660 - SUPERPAVE TYPE B, 160 GYRATION, PG 76-22
(C)	ITEM 401663 - SUPERPAVE BCBC, 160 GYRATION, PG 64-22
(D)	ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
(E)	MILL AND OVERLAY 2" ITEM 401657 - SUPERPAVE TYPE C, 160 GYRATION, PG 76-22 ITEM 760507 - POFILE-MILLING, HOT-MIX
(F)	ITEM 732002 TOPSOIL, 6" DEPTH OR ITEM 733002 TOPSOILING, 6" DEPTH ITEM 734013 PERMANENT GRASS SEEDING, DRY GROUND
(G)	ITEM 735535 SOIL RETENTION BLANKET MULCH, TYPE 5

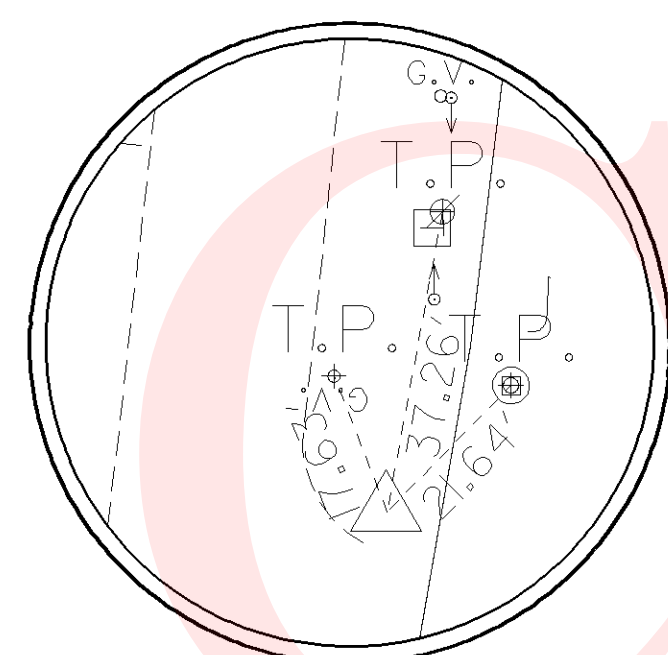
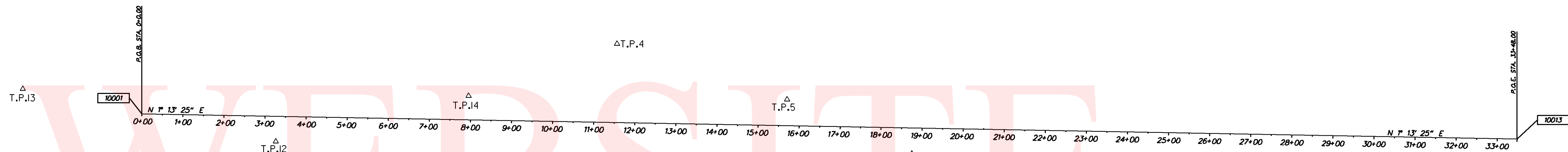
CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
10001	0+0.00	0.00	173133.85	615745.40
10013	33+48.00	0.00	176481.28	615807.16



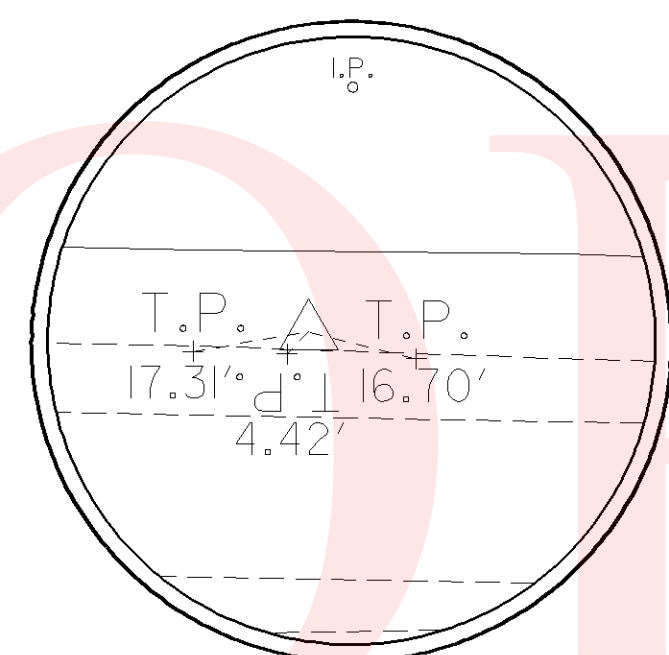
**DATUM REFERENCE:**  
 HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83/91).  
 VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88.

*HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
1			174529.69	613272.51	46.91
2			174474.96	613829.23	46.92
3			174348.59	615003.34	47.14
4			174291.48	615576.41	46.87
5	15+66.69	-63.57	174701.44	615710.74	49.33
6	24+69.63	59.85	175601.87	615853.83	48.74
7	18+78.55	64.13	175010.90	615844.17	48.69
8			174252.27	615862.11	48.71
9			174196.70	616455.62	47.69
10			174147.55	616847.11	47.00
11			174217.11	615866.80	48.90
12	3+31.90	61.82	173464.55	615813.33	52.32
13			172840.41	615679.47	53.08
14	7+95.96	-59.94	173930.78	615700.16	51.08
15	11+75.00	-741.62	174319.10	615024.91	47.28
16			174231.86	615997.06	47.94
17			174159.18	616688.43	47.64

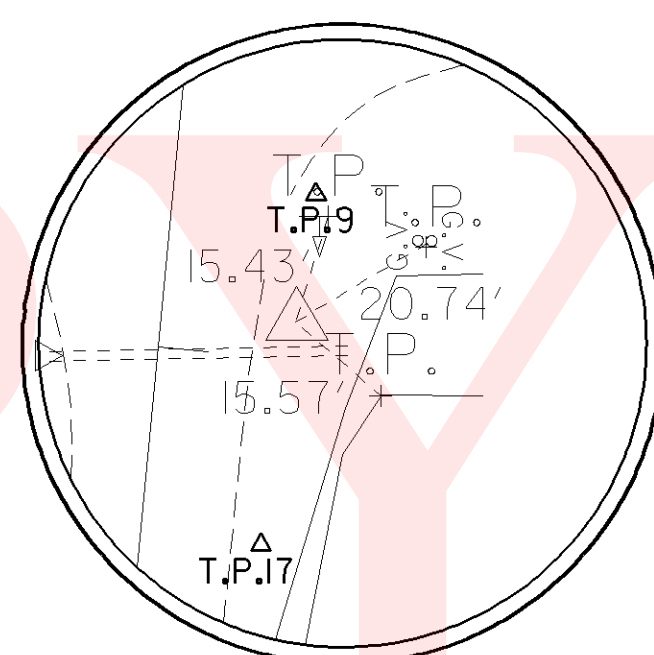
\* NEGATIVE DENOTES LEFT OF BASELINE



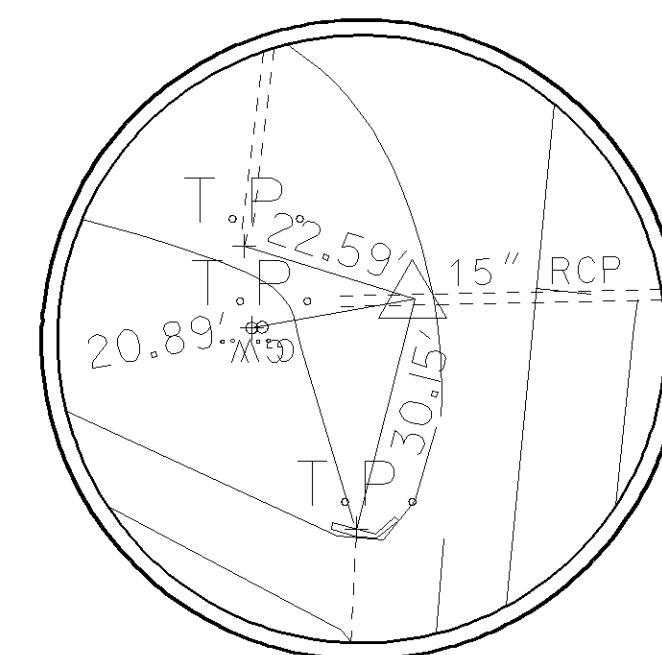
TRAVERSE POINT #4



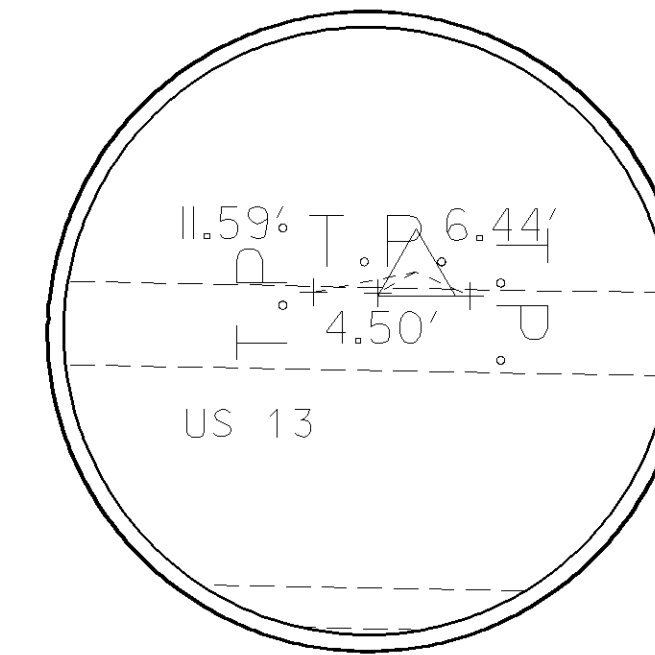
TRAVERSE POINT #5



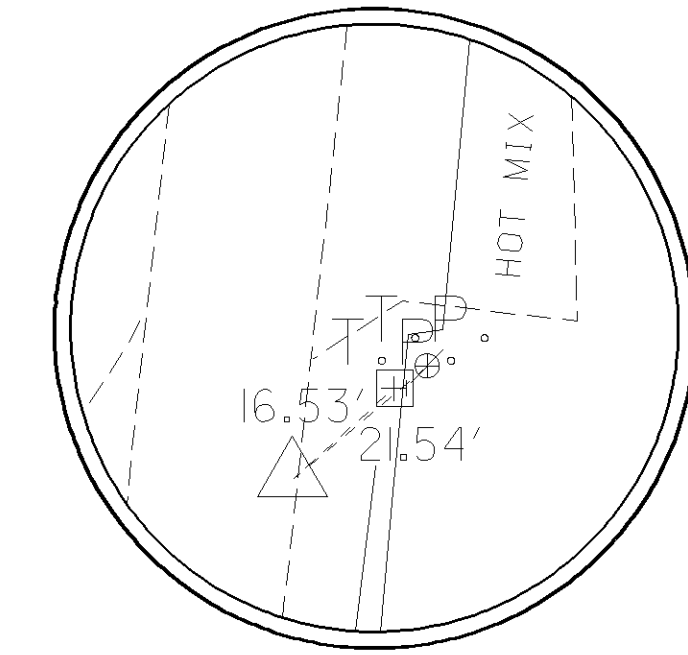
TRAVERSE POINT #8



TRAVERSE POINT #11



TRAVERSE POINT #14

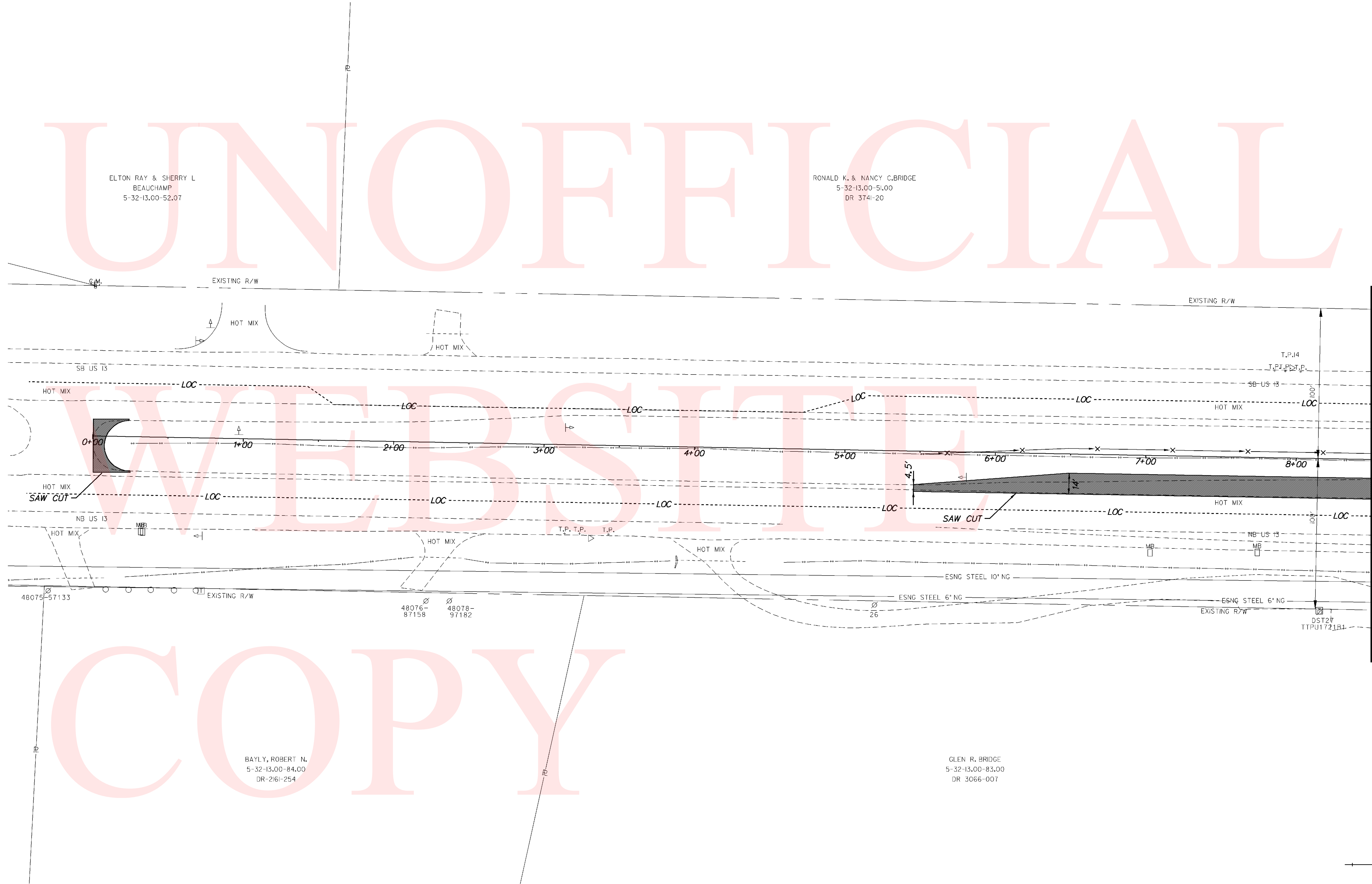


TRAVERSE POINT #16

# UNOFFICIAL

ELTON RAY & SHERRY L.  
BEAUCHAMP  
5-32-13.00-52.07

RONALD K. & NANCY C. BRIDGE  
5-32-13.00-51.00  
DR 3741-20

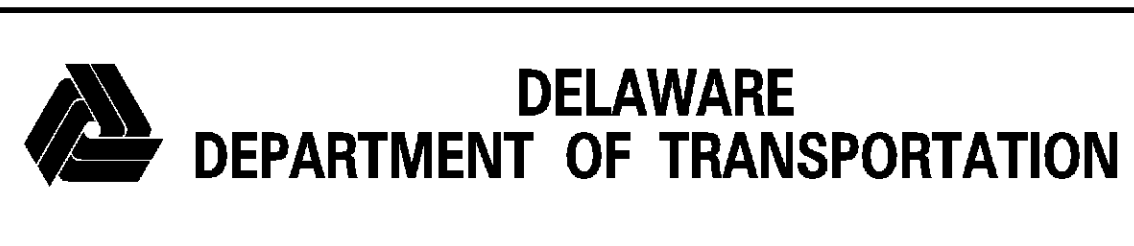
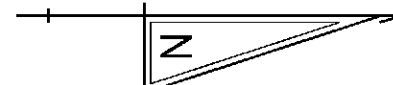


MATCH LINE STA 8+50

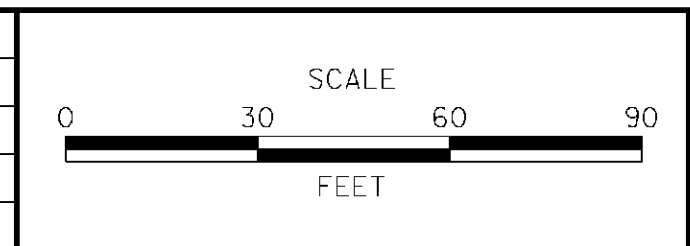
# COPY

BAYLY, ROBERT N.  
5-32-13.00-84.00  
DR-2161-254

GLEN R. BRIDGE  
5-32-13.00-83.00  
DR 3066-007



ADDENDUMS / REVISIONS	



**US13 @ ALLENS MILL ROAD/  
IRON HILL ROAD (S454A)**

CONTRACT T201000901	BRIDGE NO. <input type="checkbox"/>
COUNTY SUSSEX	DESIGNED BY: 
	CHECKED BY: 

**CONSTRUCTION PLANS**

SHEET NO. 7
TOTAL SHTS. 24



DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
1	10+39.23	-11.69'	48" x 30"	1	49.49'	45.85'
2	10+75.02	-15.03'	48" x 30"	1	*	45.60'
3	11+11.23	-13.42'	48" x 48"	1	*	45.89'
4	11+91.65	23.08'	34" x 24"	1	*	47.58'

\*MATCH PROPOSED FLOW LINE

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	P. C. C. CURB TYPE 2	162.00'
2	P. C. C. CURB TYPE 2	317.00'
3	P. C. C. CURB TYPE 2	194.00'

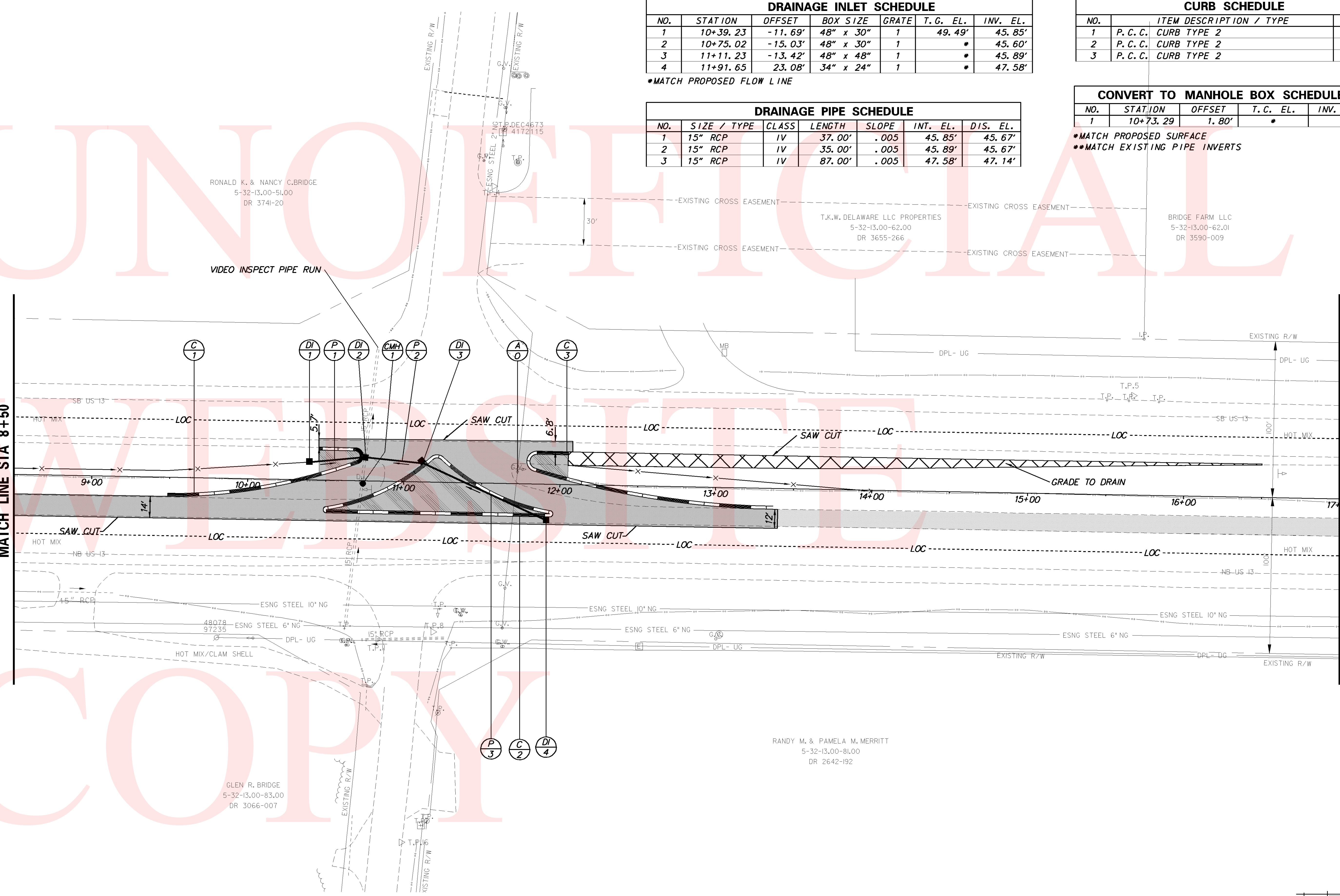
DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	15" RCP	IV	37.00'	.005	45.85'	45.67'
2	15" RCP	IV	35.00'	.005	45.89'	45.67'
3	15" RCP	IV	87.00'	.005	47.58'	47.14'

CONVERT TO MANHOLE BOX SCHEDULE				
NO.	STATION	OFFSET	T. C. EL.	INV. EL.
1	10+73.29	1.80'	*	**

\*MATCH PROPOSED SURFACE  
\*\*MATCH EXISTING PIPE INVERTS

MATCH LINE STA 8+50

MATCH LINE STA 17+00



RONALD K. & NANCY C. BRIDGE  
5-32-13.00-51.00  
DR 3741-20

T.K.W. DELAWARE LLC PROPERTIES  
5-32-13.00-62.00  
DR 3655-266

BRIDGE FARM LLC  
5-32-13.00-62.01  
DR 3590-009

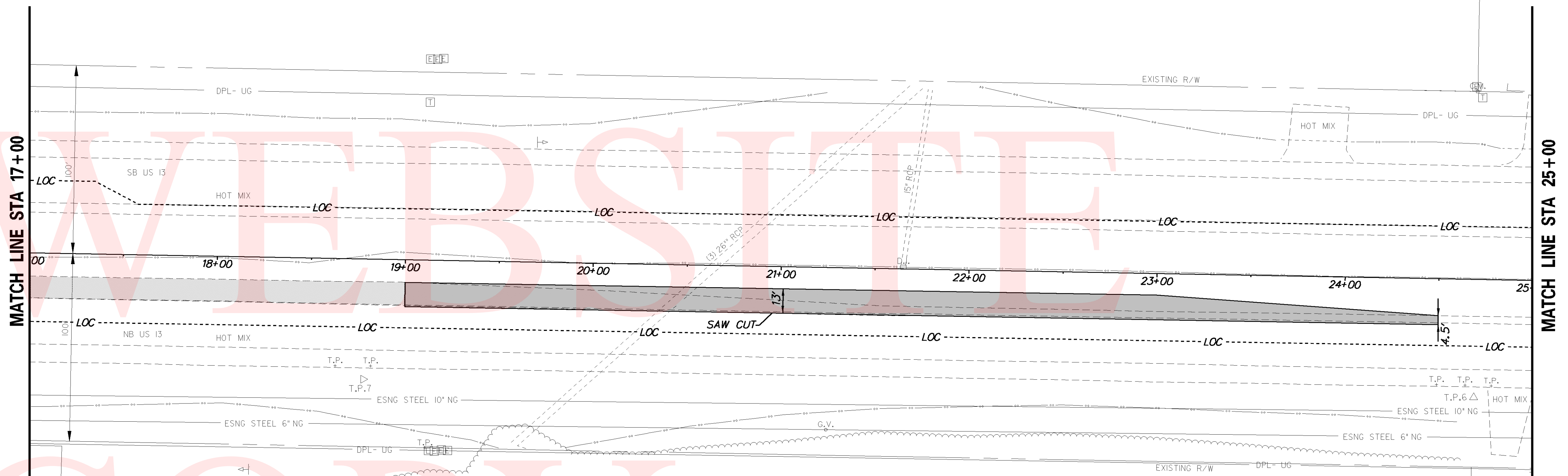
RANDY M. & PAMELA M. MERRITT  
5-32-13.00-81.00  
DR 2642-192

GLEN R. BRIDGE  
5-32-13.00-83.00  
DR 3066-007

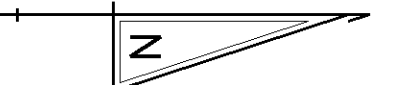


# UNOFFICIAL

BRIDGE FARM LLC  
5-32-13.00-62.01  
DR 3590-009



RANDY M. & PAMELA M. MERRITT  
5-32-13.00-81.00  
DR 2642-192



COPY WEBSITE



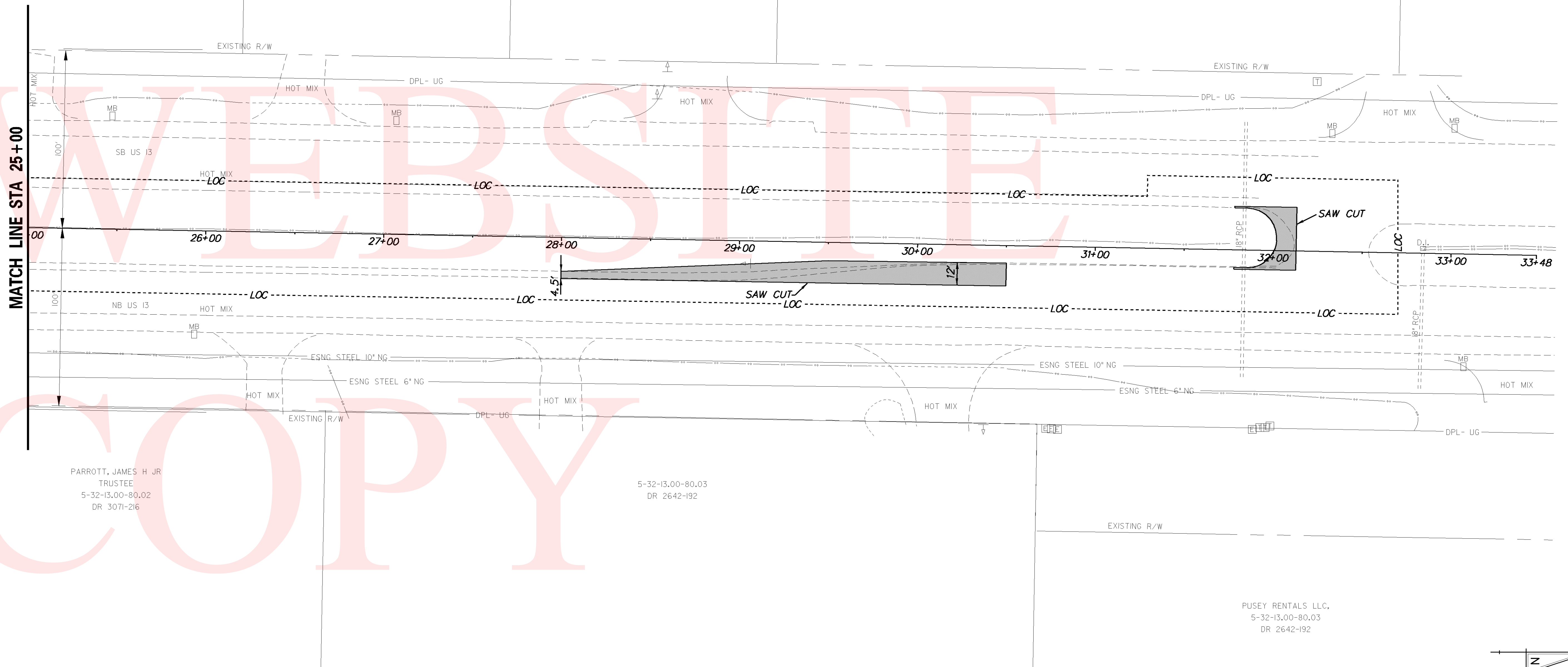
# UNOFFICIAL

THALIA PAPPAS, LLC  
5-32-13.00-63.01  
DR 2323-244

A&S REAL ESTATE, LLP  
5-32-13.00-63.02  
DR 2323-244

ANBR LLC  
5-32-13.00-63.03  
DR 2978-105

PARROTT, JAMES H JR,  
TRUSTEE OF SHIRLEY H  
PARROTT IRRE-VOCABLE  
5-32-13.00-63.05  
DR 3100,091



PARROTT, JAMES H JR  
TRUSTEE  
5-32-13.00-80.02  
DR 3071-216

5-32-13.00-80.03  
DR 2642-192

PUSEY RENTALS LLC,  
5-32-13.00-80.03  
DR 2642-192



ADDENDUMS / REVISIONS



**US13 @ ALLENS MILL ROAD/  
IRON HILL ROAD (S454A)**

CONTRACT  
T201000901  
COUNTY  
SUSSEX

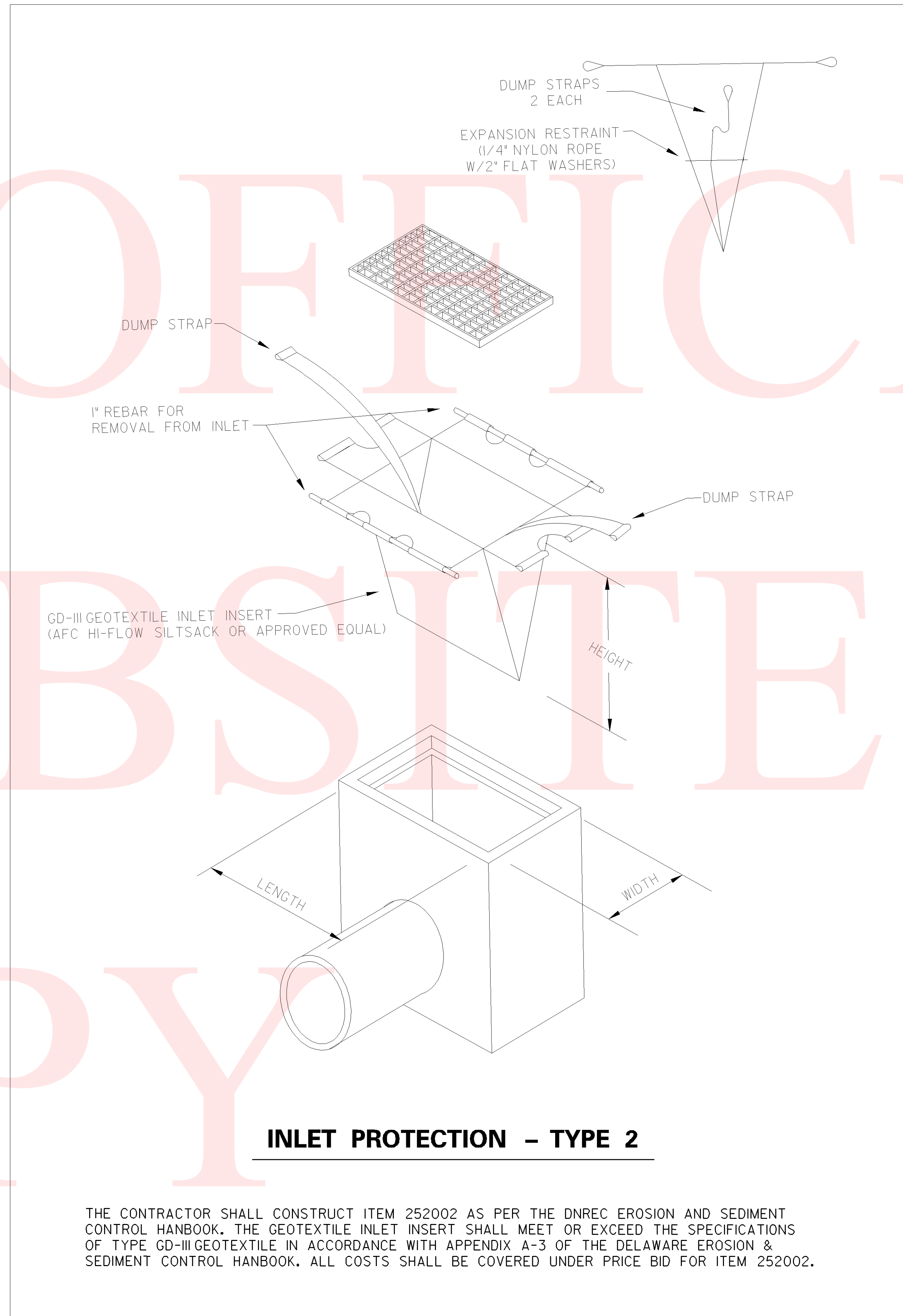
BRIDGE NO.   
DESIGNED BY:  
CHECKED BY:

**CONSTRUCTION PLANS**

SHEET NO.  
10  
TOTAL SHTS.  
24



UNOFFICIAL  
 WEBSITE  
 COPY



**INLET PROTECTION - TYPE 2**

THE CONTRACTOR SHALL CONSTRUCT ITEM 252002 AS PER THE DNREC EROSION AND SEDIMENT CONTROL HANDBOOK. THE GEOTEXTILE INLET INSERT SHALL MEET OR EXCEED THE SPECIFICATIONS OF TYPE GD-III GEOTEXTILE IN ACCORDANCE WITH APPENDIX A-3 OF THE DELAWARE EROSION & SEDIMENT CONTROL HANDBOOK. ALL COSTS SHALL BE COVERED UNDER PRICE BID FOR ITEM 252002.

ADDENDUMS / REVISIONS	

**NOT TO SCALE**

**US 13@ ALLENS MILL ROAD &  
 IRON HILL ROAD (S454A)**

CONTRACT T201000901	BRIDGE NO. <input type="checkbox"/>
COUNTY SUSSEX	DESIGNED BY: 
	CHECKED BY: 

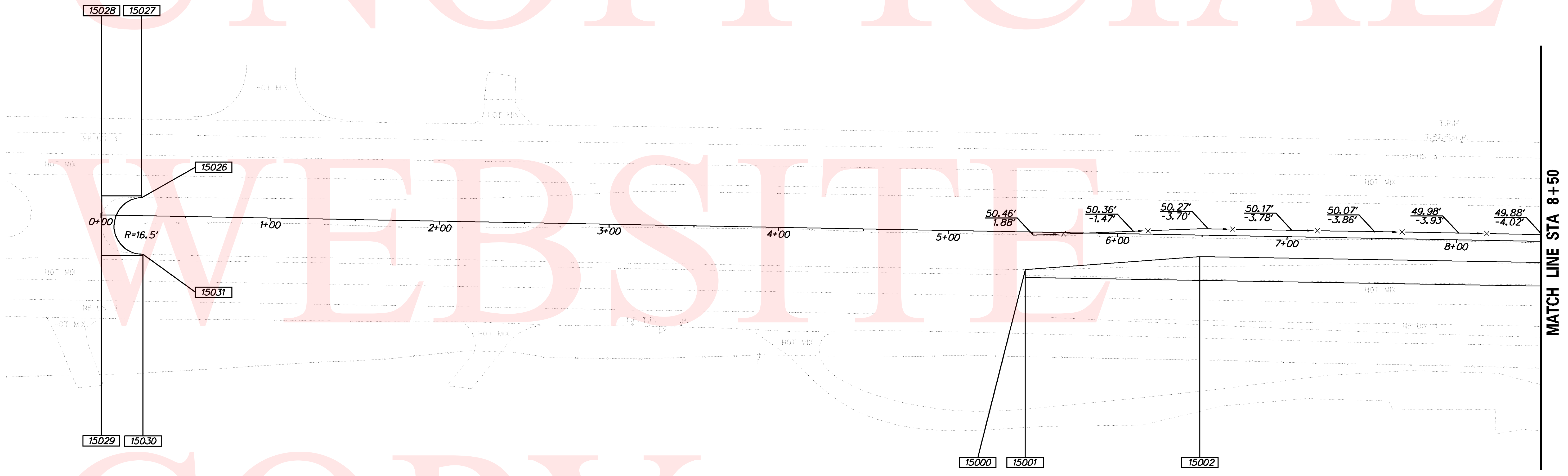
**CONSTRUCTION DETAIL**

SHEET NO. 11
TOTAL SHTS. 24

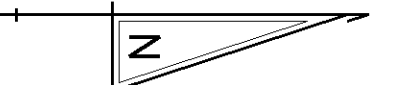


COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
15000	5+46.00	22.28	173679.34	615777.75
15001	5+46.00	26.86	173679.27	615782.32
15002	6+48.82	12.70	173782.33	615770.07
15026	0+23.84	-10.65	173157.88	615735.19
15027	0+23.83	-11.65	173157.89	615734.20
15028	0+00	-11.25	173134.19	615734.15
15029	0+00	24.11	173133.99	615769.52
15030	0+25.22	23.78	173158.63	615769.64
15031	0+25.21	22.78	173158.63	615768.64

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COPY

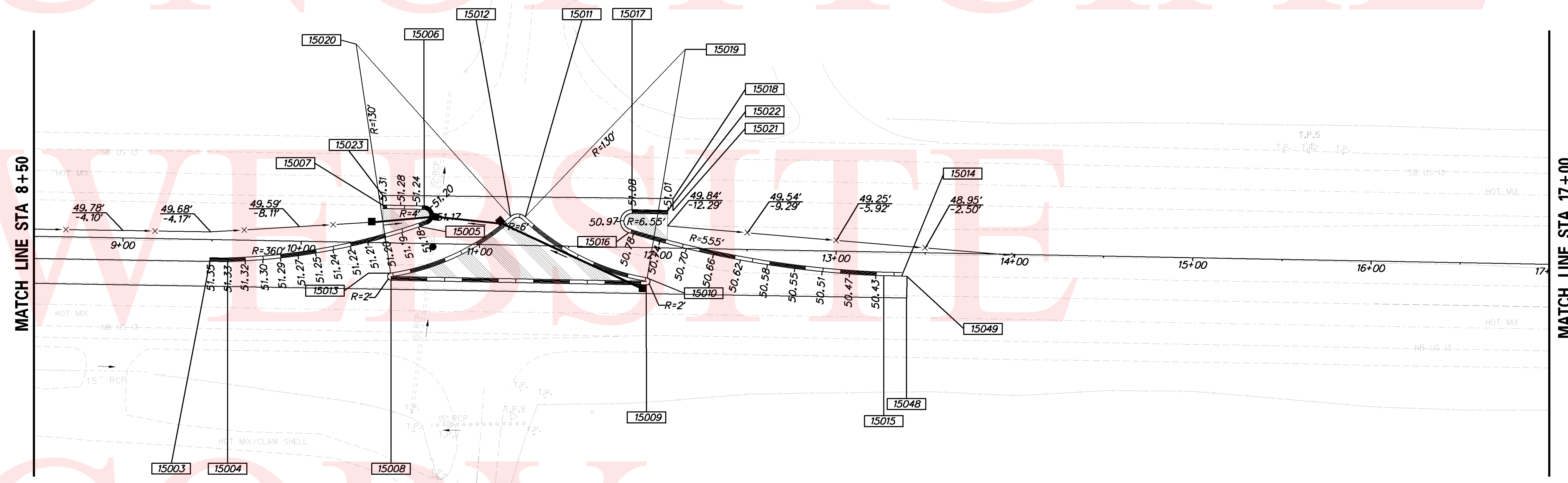




UNOFFICIAL

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
15003	9+48.82	12.23	174082.29	615775.13
15004	9+58.82	12.23	174092.29	615775.31
15005	10+66.41	-9.43	174200.25	615755.65
15006	10+64.35	-21.06	174198.40	615743.98
15007	10+45.34	-21.07	174179.40	615743.62
15008	10+50.66	21.00	174183.94	615785.78
15009	11+93.89	21.00	174327.15	615788.42
15010	11+94.18	17.02	174327.51	615784.45
15011	11+25.22	-15.92	174259.17	615750.24
15012	11+17.07	-15.90	174251.02	615750.10
15013	10+50.33	17.03	174183.68	615781.80

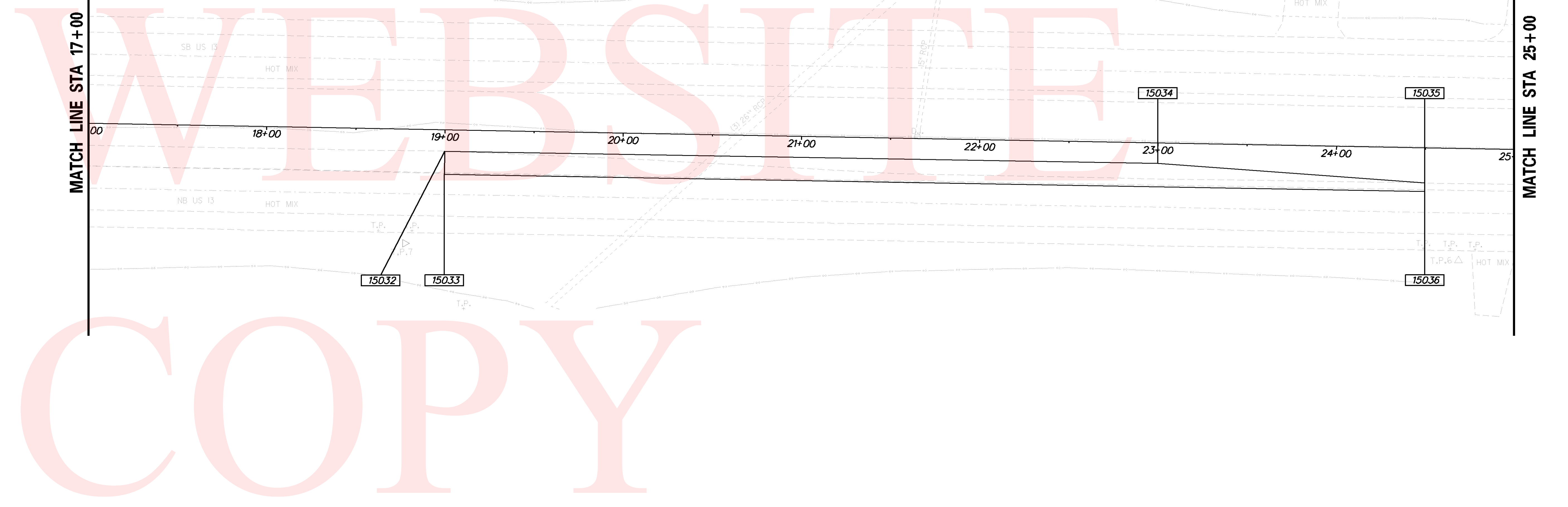
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
15014	13+36.90	13.38	174470.27	615783.44
15015	13+26.90	13.40	174460.27	615783.27
15016	11+83.42	-8.14	174317.22	615759.09
15017	11+85.15	-21.01	174319.18	615746.25
15018	12+08.15	-27.81	174342.18	615738.84
15019	12+13.26	-111.57	174348.96	615656.23
15020	10+28.58	-111.14	174164.14	615653.25
15021	12+08.15	-21.01	174342.18	615746.68
15022	12+05.15	-21.01	174339.18	615746.62
15023	10+45.24	-26.52	174179.40	615738.17
15048	13+39.87	25.54	174473.02	615795.65
15049	13+39.90	13.39	174473.27	615783.50





UNOFFICIAL

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
15032	19+00.02	12.10	175033.32	615792.54
15033	19+00.04	24.97	175033.11	615805.41
15034	23+00.00	11.44	175433.25	615799.26
15035	24+50.00	19.72	175583.07	615810.31
15036	24+50.00	24.40	175583.00	615814.99



COPY

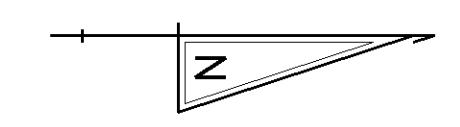
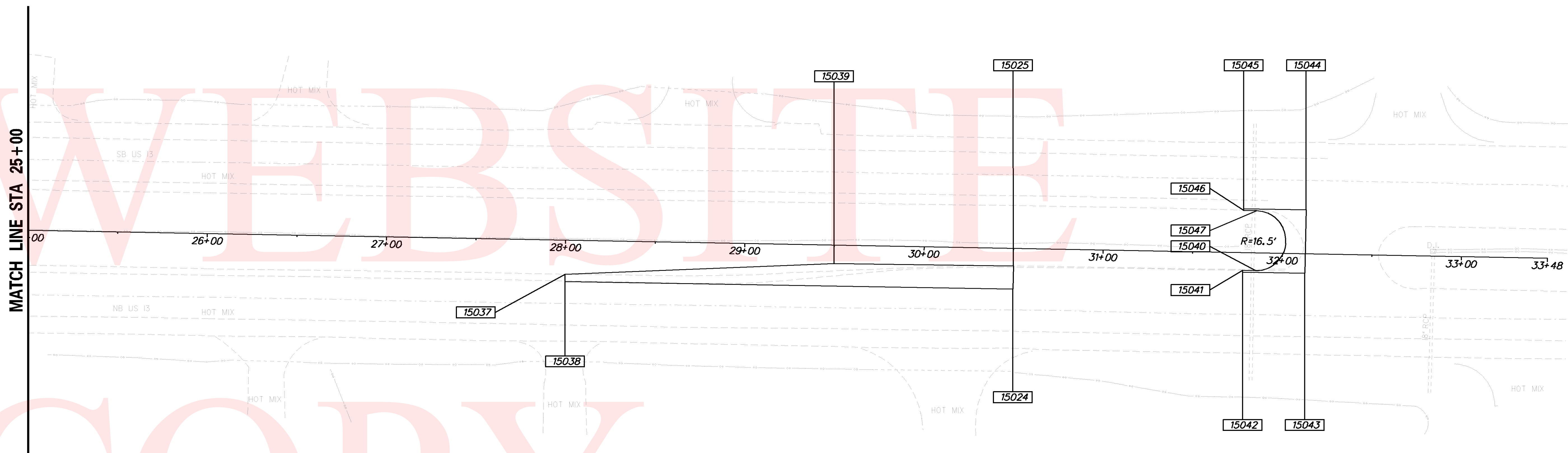


COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
15024	30+50.00	22.71	176182.91	615824.36
15025	30+50.00	9.75	176183.15	615811.42
15037	28+00.00	19.10	175933.02	615816.15
15038	28+00.00	23.12	175933.01	615820.17
15039	29+50.00	10.37	176083.16	615810.19
15040	31+85.23	9.91	176318.35	615814.06
15041	31+78.00	9.91	176311.13	615813.93
15042	31+78.00	10.91	176311.11	615814.93
15043	32+12.73	10.91	176345.83	615815.57
15044	32+12.73	-24.55	176346.48	615780.12
15045	31+78.00	-24.55	176311.76	615779.48
15046	31+78.00	-23.55	176311.74	615780.48
15047	31+85.23	-23.55	175318.97	615780.61

UNOFFICIAL

WEB SITE

COPY



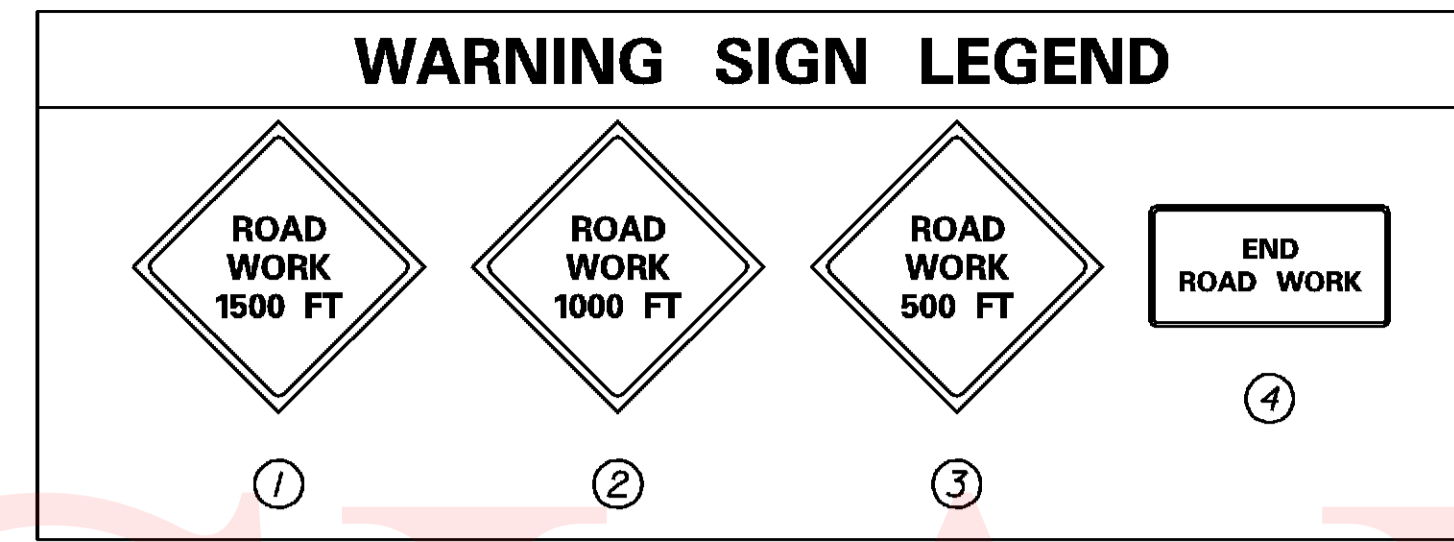
**MOT NOTES**

1. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND LANE SHIFTS SHALL CONFORM TO CASE 33b OF THE TRAFFIC CONTROL MANUAL FOR U.S. ROUTE 13.
2. ON ALL INTERSECTING STREETS APPROACHING THE WORK AREA, "ROAD WORK 1,500 FT." "ROAD WORK 1,000 FT." AND "ROAD WORK 500 FT." PERMANENT SIGNS SHALL BE PLACED AS SHOWN ON THESE PLANS OR AS DIRECTED BY THE ENGINEER. AN "END ROAD WORK" SIGN SHALL BE PLACED ACROSS THE STREET FROM THE "ROAD WORK 500 FT." SIGN, VISIBLE TO TRAFFIC OPERATING THE WORK ZONE.
3. GRADING AND MAINTAINING BASE COURSE THAT IS BEING USED AS A TRAVELWAY, DRIVEWAY, ACCESS RAMP, ETC. SHALL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE PAY ITEM. NO 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. CONSTRUCTION OF A PLANNED RUNAROUND OR DETOUR WOULD BE ELIGIBLE FOR PAYMENT AS SPECIFIED IN THE CONTRACT.
4. THE CONTRACTOR SHALL SUPPLY PORTABLE CHANGEABLE MESSAGE BOARDS (PCMS) UNDER ITEM 734004. ONE PCMS WILL BE PLACED ALONG US13 NORTHBOUND AND SOUTHBOUND DIRECTIONS PRIOR TO THE WORK AREA AT ALLENS MILL ROAD/ IRON HILL ROAD. THE PCMS'S SHOULD BE PLACED A MINIMUM OF TEN (10) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION TO REMIND ROAD USERS OF PENDING LANE CLOSURES. THE PCMS'S SHOULD HAVE THE FOLLOWING MESSAGE:

**ROAD WORK  
STARTING  
XXXX/XX**

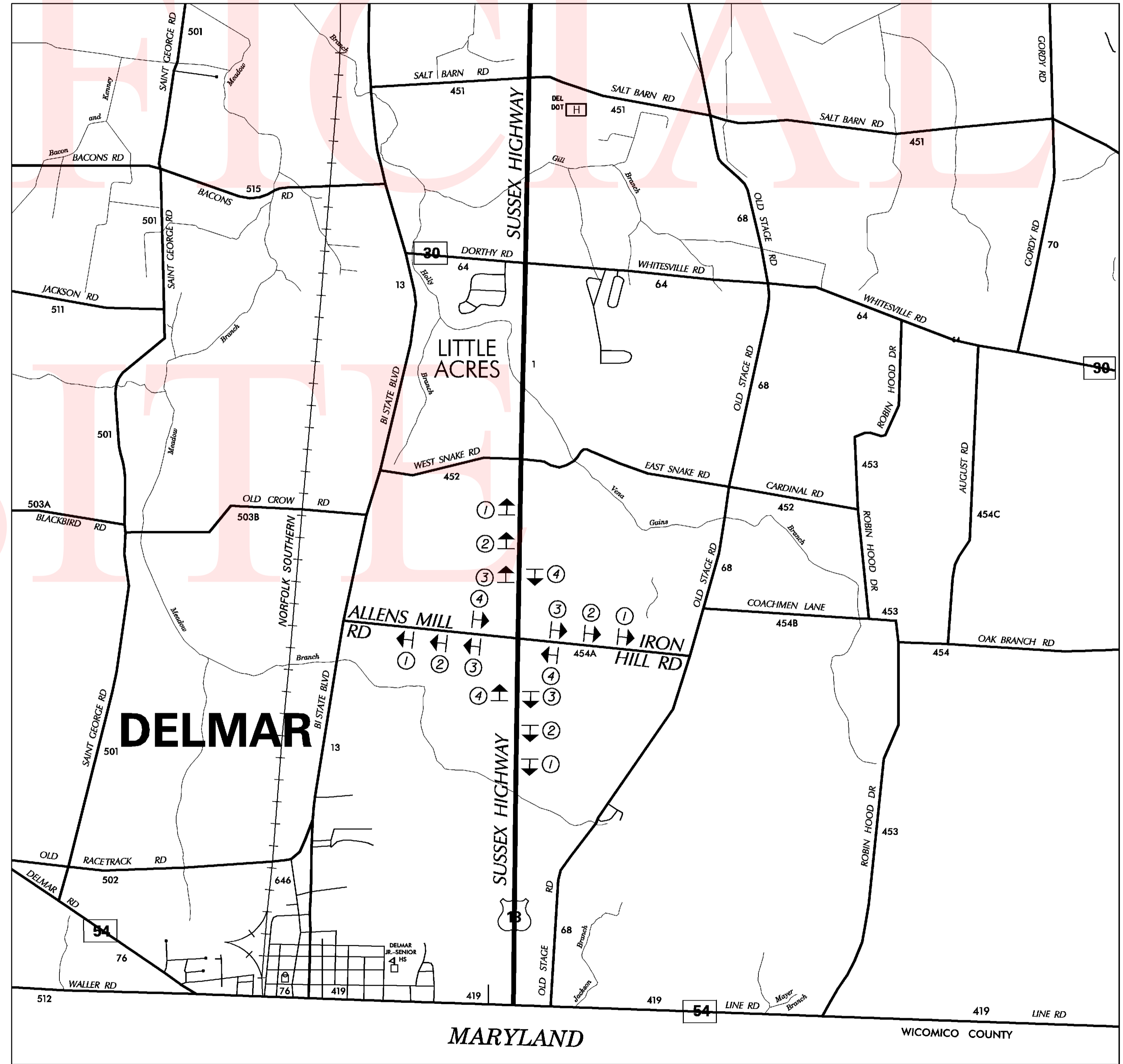
**6AM-3PM  
EXPECT  
DELAYS**

5. A TYPE II TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE REQUIRED ON THIS PROJECT DURING THE FOLLOWING PAVEMENT 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.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ALL OTHER CONTRACTORS IN THE AREA, INCLUDING UTILITY COMPANIES. ANY COST ARE INCIDENTAL TO THE CONTRACT.
7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF EXISTING PAVEMENT WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE CONTRACT AS DIRECTED BY THE ENGINEER OR DESIGNEE. ALL REPAIRS ARE AT THE CONTRACTORS EXPENSE AS DIRECTED BY THE ENGINEER.
8. THE ROADWAY AND SHOULDER WORK SHALL BE PERFORMED IN A MANNER SUCH THAT POSITIVE DRAINAGE OF THE ROADWAY SURFACE IS MAINTAINED THROUGHOUT CONSTRUCTION. ALL WORK AND MATERIALS TO PROVIDE AND MAINTAIN THIS DRAINAGE SHALL BE INCIDENTAL TO ITEM 736500 - MAINTENANCE OF TRAFFIC.
9. THIS PROJECT IS CONSIDERED A SIGNIFICANT PROJECT AS DEFINED BY DELDOT'S WORK ZONE MOBILITY PROCEDURES AND GUIDELINES. A TYPE B TRANSPORTATION MANAGEMENT PLAN (TMP) HAS BEEN PREPARED AND IS AVAILABLE FOR VIEWING BY CONTACTING THE DEPARTMENT'S SAFETY PROGRAMS MANAGER AT (302)659-4060. ALL MONITORING REQUIREMENTS OF THE TMP SHALL BE CONDUCTED BY DELDOT FORCES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MODIFICATIONS TO THE TMP SHALL BE COMPLETED BY THE CONTRACTOR IF CHANGES TO THE TIME RESTRICTIONS OR THE TRAFFIC CONTROL PLAN ARE DESIRED. THE MODIFIED TMP SHALL BE PREPARED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF DELAWARE.
10. THE ALLOWABLE LANE CLOSURE HOURS FOR THIS PROJECT IS 6AM-3PM (MONDAY-FRIDAY)
11. A "NEW TRAFFIC PATTERN" PPLAQUE (W-23-2P-DE) SHOULD BE MOUNTED ABOVE THE NEW INTERSECTION WARNING SIGN IN THE NORTHBOUND AND SOUTHBOUND DIRECTIONS ON US13 FOR NINETY (90) DAYS AFTER THE NEW TRAFFIC PATTERN IS IN PLACE.



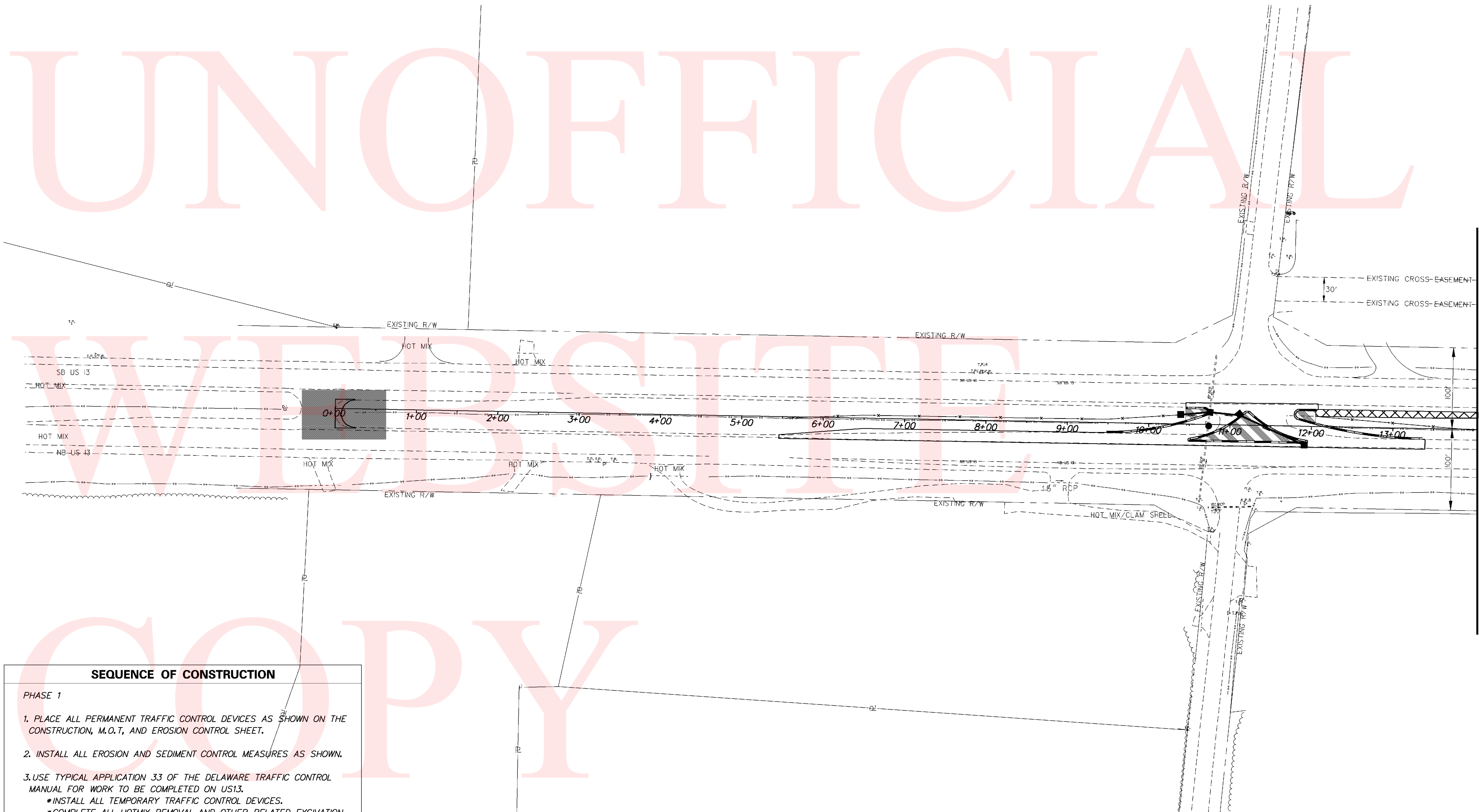
EROSION & SEDIMENT CONTROL	
	DEWATERING BASIN
	EROSION CONTROL BLANKET
	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	REINFORCED SILT FENCE
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE
	SUMP PIT, TYPE 1
	SUMP PIT, TYPE 2
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN

CONSTRUCTION PHASING SYMBOLS	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	PHASING TRAFFIC FLOW ARROW





# UNOFFICIAL

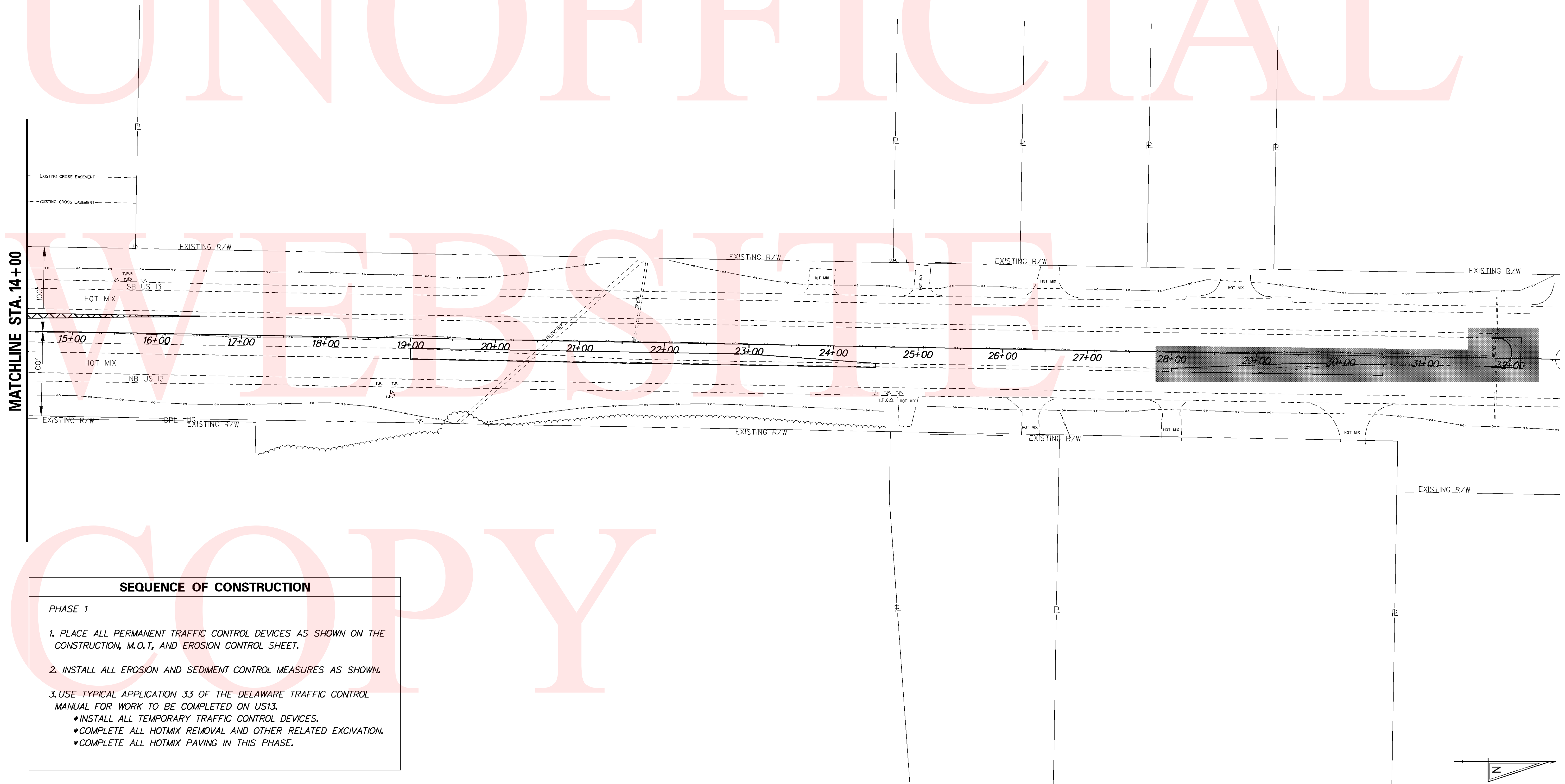


**SEQUENCE OF CONSTRUCTION**

**PHASE 1**

1. PLACE ALL PERMANENT TRAFFIC CONTROL DEVICES AS SHOWN ON THE CONSTRUCTION, M.O.T., AND EROSION CONTROL SHEET.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN.
3. USE TYPICAL APPLICATION 33 OF THE DELAWARE TRAFFIC CONTROL MANUAL FOR WORK TO BE COMPLETED ON US13.
  - \*INSTALL ALL TEMPORARY TRAFFIC CONTROL DEVICES.
  - \*COMPLETE ALL HOTMIX REMOVAL AND OTHER RELATED EXCAVATION.
  - \*COMPLETE ALL HOTMIX PAVING IN THIS PHASE.

# UNOFFICIAL



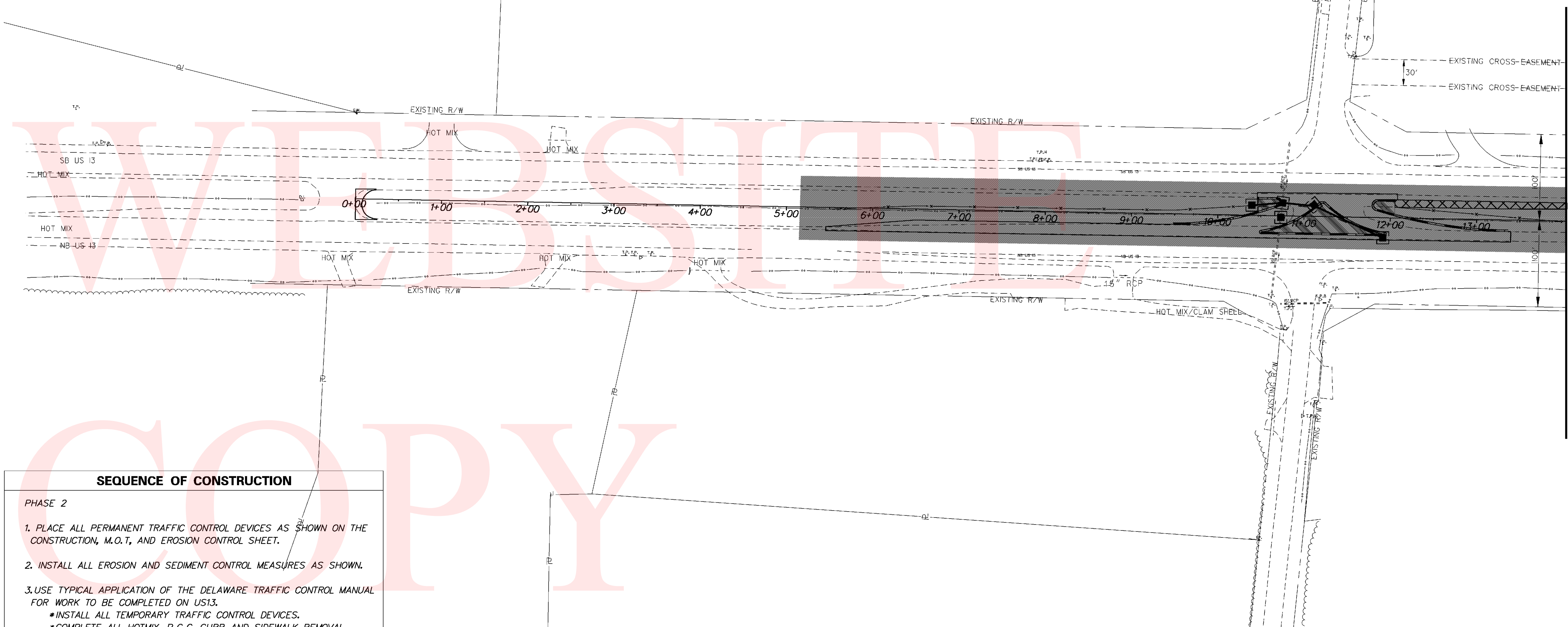
**SEQUENCE OF CONSTRUCTION**

**PHASE 1**

1. PLACE ALL PERMANENT TRAFFIC CONTROL DEVICES AS SHOWN ON THE CONSTRUCTION, M.O.T, AND EROSION CONTROL SHEET.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN.
3. USE TYPICAL APPLICATION 33 OF THE DELAWARE TRAFFIC CONTROL MANUAL FOR WORK TO BE COMPLETED ON US13.
  - \*INSTALL ALL TEMPORARY TRAFFIC CONTROL DEVICES.
  - \*COMPLETE ALL HOTMIX REMOVAL AND OTHER RELATED EXCAVATION.
  - \*COMPLETE ALL HOTMIX PAVING IN THIS PHASE.



# UNOFFICIAL



MATCHLINE STA. 14+00

**SEQUENCE OF CONSTRUCTION**

PHASE 2

1. PLACE ALL PERMANENT TRAFFIC CONTROL DEVICES AS SHOWN ON THE CONSTRUCTION, M.O.T., AND EROSION CONTROL SHEET.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN.
3. USE TYPICAL APPLICATION OF THE DELAWARE TRAFFIC CONTROL MANUAL FOR WORK TO BE COMPLETED ON US13.
  - \*INSTALL ALL TEMPORARY TRAFFIC CONTROL DEVICES.
  - \*COMPLETE ALL HOTMIX, P.C.C. CURB AND SIDEWALK REMOVAL AND OTHER RELATED EXCAVATION.
  - \*INSTALL NEW P.C.C. CURB AND SIDEWALK IN MEDIAN.



ADDENDUMS / REVISIONS	

**US13 @ ALLENS MILL ROAD/  
IRON HILL ROAD (S454A)**

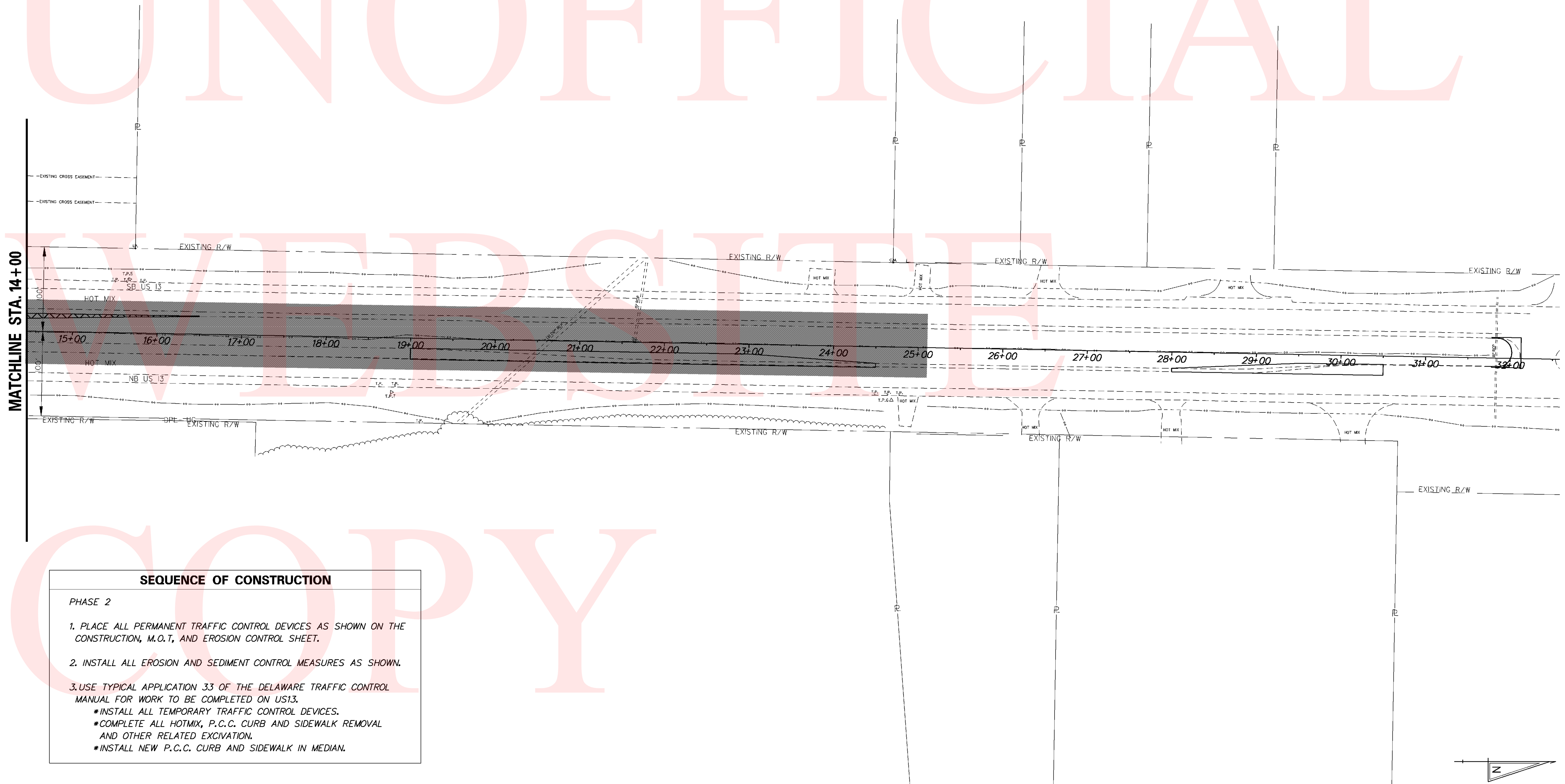
CONTRACT T201000901	BRIDGE NO. 
COUNTY SUSSEX	DESIGNED BY: 
	CHECKED BY: 

**CONSTRUCTION PHASING,  
M.O.T. AND EROSION  
CONTROL PLAN PHASE 2**

SHEET NO. 19
TOTAL SHTS. 24



# UNOFFICIAL



**SEQUENCE OF CONSTRUCTION**

**PHASE 2**

1. PLACE ALL PERMANENT TRAFFIC CONTROL DEVICES AS SHOWN ON THE CONSTRUCTION, M.O.T, AND EROSION CONTROL SHEET.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN.
3. USE TYPICAL APPLICATION 33 OF THE DELAWARE TRAFFIC CONTROL MANUAL FOR WORK TO BE COMPLETED ON US13.
  - \*INSTALL ALL TEMPORARY TRAFFIC CONTROL DEVICES.
  - \*COMPLETE ALL HOTMIX, P.C.C. CURB AND SIDEWALK REMOVAL AND OTHER RELATED EXCAVATION.
  - \*INSTALL NEW P.C.C. CURB AND SIDEWALK IN MEDIAN.



UNOFFICIAL

WEB SITE

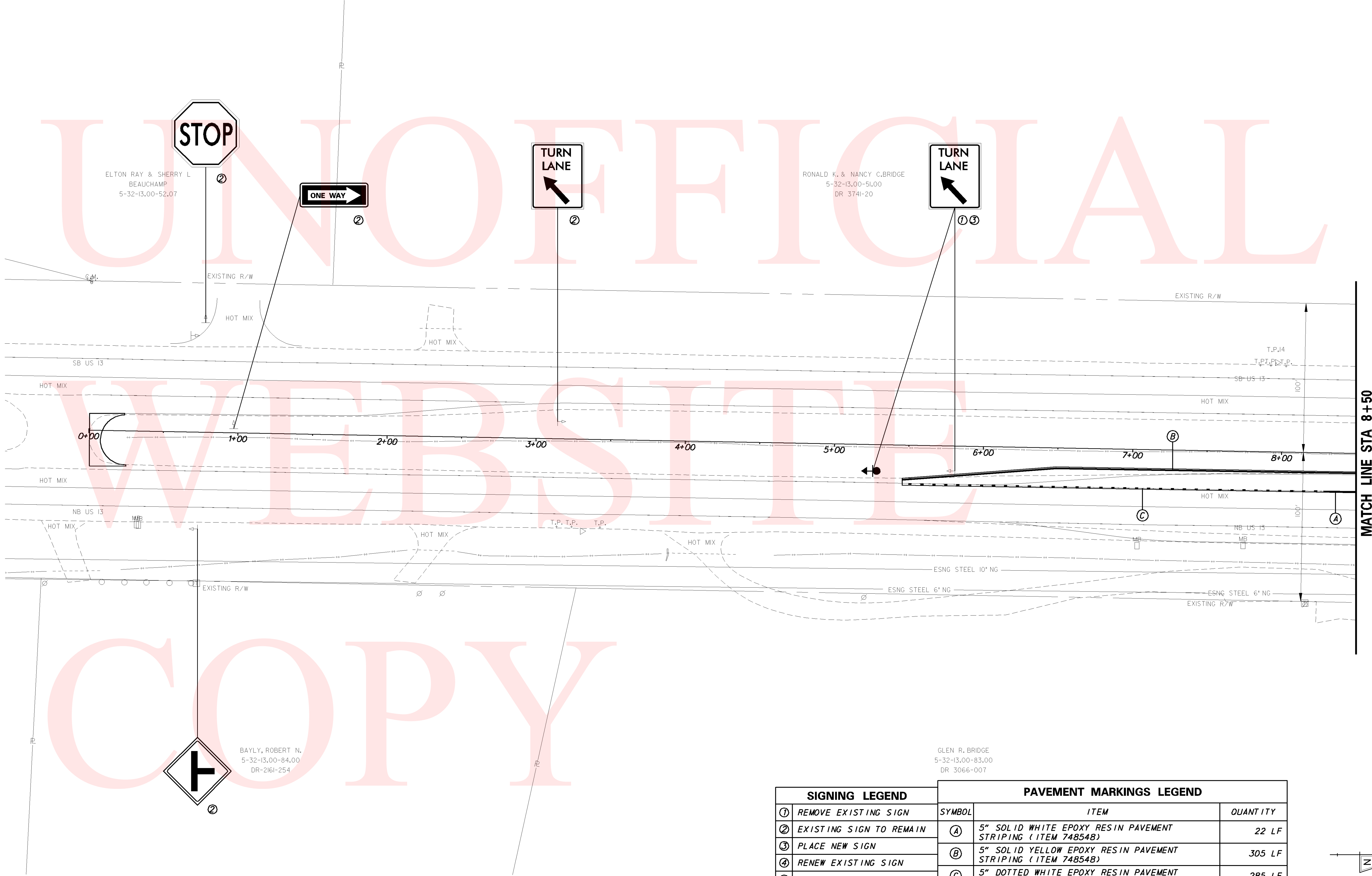
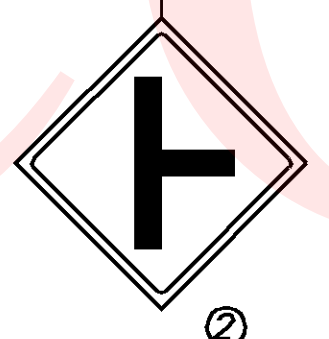
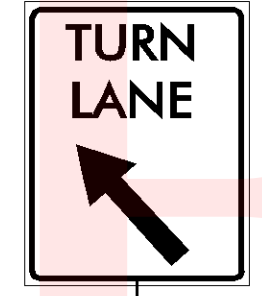
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ELTON RAY & SHERRY L  
BEAUCHAMP  
5-32-13.00-52.07

RONALD K. & NANCY C. BRIDGE  
5-32-13.00-51.00  
DR 3741-20

BAYLY, ROBERT N.  
5-32-13.00-84.00  
DR-2161-254

GLEN R. BRIDGE  
5-32-13.00-83.00  
DR 3066-007

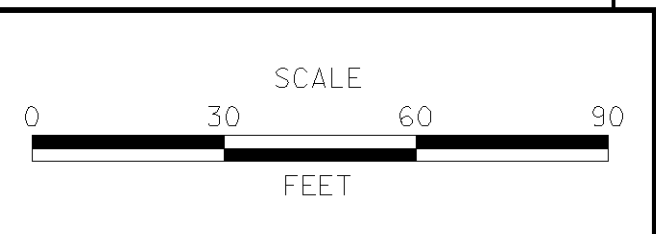


MATCH LINE STA 8+50

SIGNING LEGEND		PAVEMENT MARKINGS LEGEND		
①	REMOVE EXISTING SIGN	SYMBOL	ITEM	QUANTITY
②	EXISTING SIGN TO REMAIN	(A)	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	22 LF
③	PLACE NEW SIGN	(B)	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	305 LF
④	RENEW EXISTING SIGN	(C)	5" DOTTED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP (ITEM 748548)	285 LF
⑤	REPOSITION EXISTING SIGN			



ADDENDUMS / REVISIONS

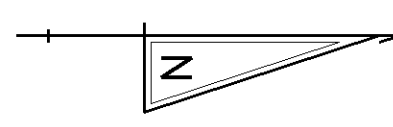


**US13 @ ALLENS MILL ROAD/  
IRON HILL ROAD (S454A)**

CONTRACT T201000901	BRIDGE NO. 
COUNTY SUSSEX	DESIGNED BY: 
	CHECKED BY: 

**SIGNING, STRIPING  
AND CONDUIT PLAN**

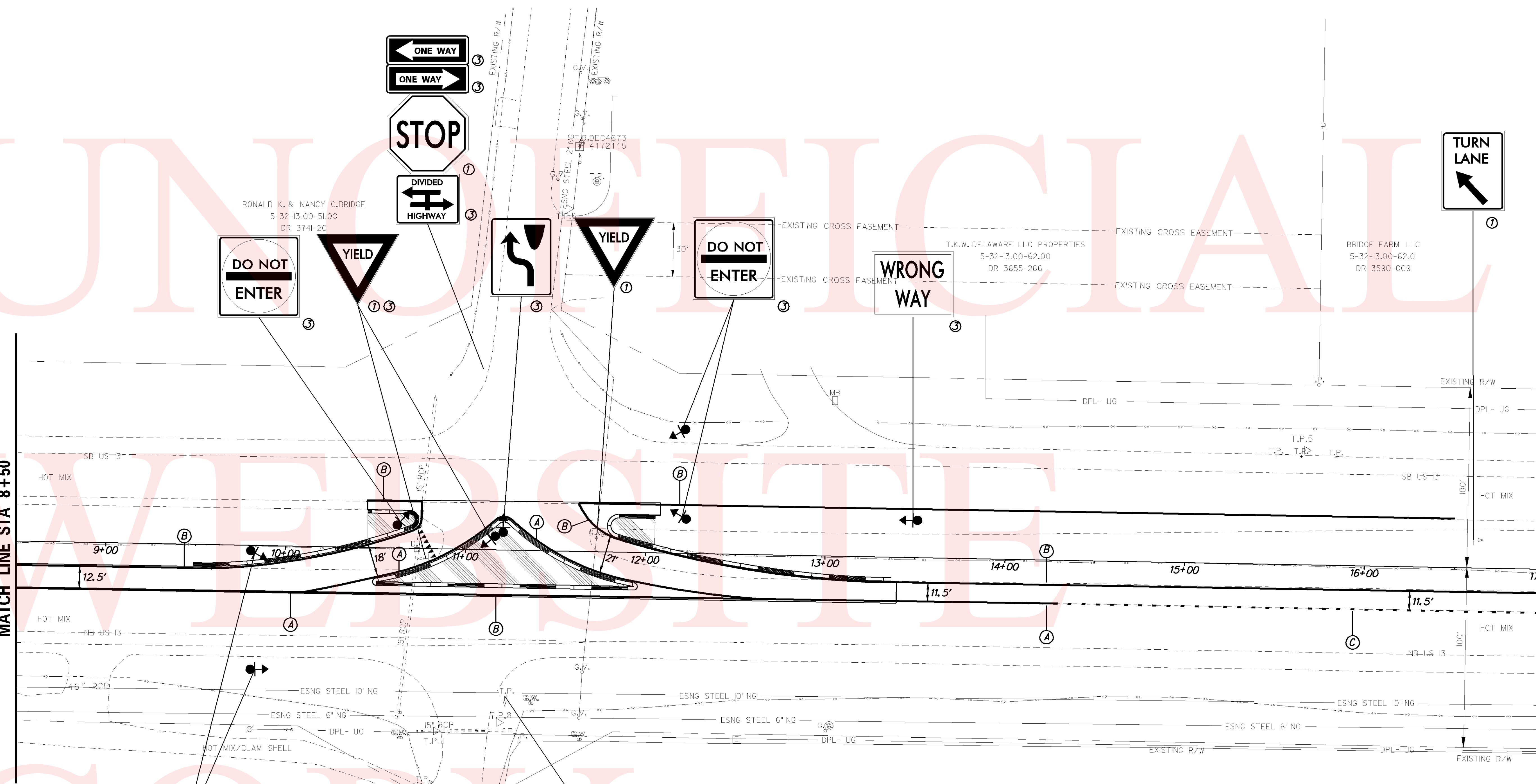
SHEET NO. 21
TOTAL SHTS. 24



UNOFFICIAL

MATCH LINE STA 8+50

MATCH LINE STA 17+00



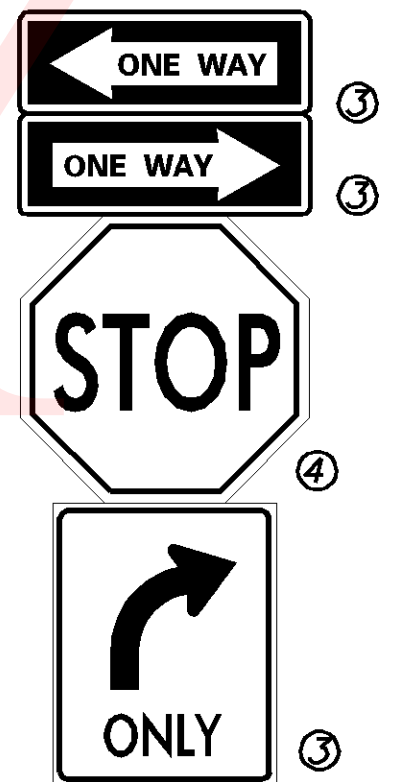
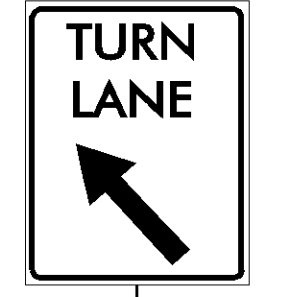
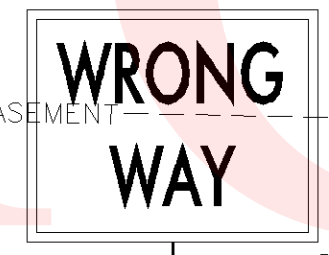
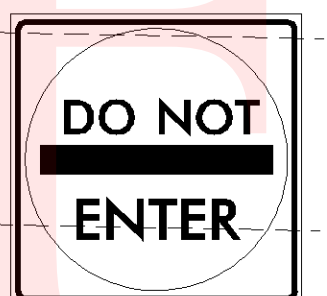
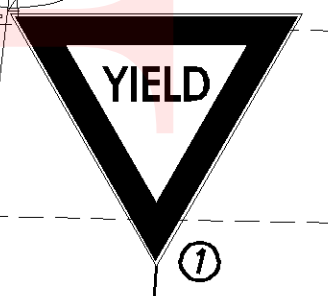
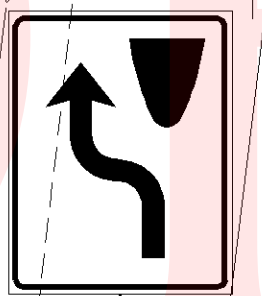
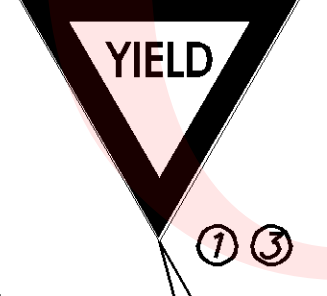
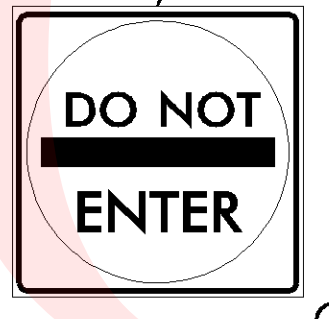
RONALD K. & NANCY C. BRIDGE  
5-32-13.00-51.00  
DR 3741-20

T.K.W. DELAWARE LLC PROPERTIES  
5-32-13.00-62.00  
DR 3655-266

BRIDGE FARM LLC  
5-32-13.00-62.01  
DR 3590-009

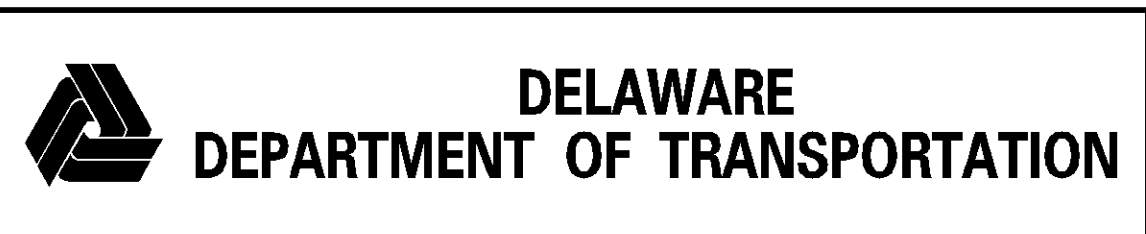
RANDY M. & PAMELA M. MERRITT  
5-32-13.00-81.00  
DR 2642-192

GLEN R. BRIDGE  
5-32-13.00-83.00  
DR 3066-007

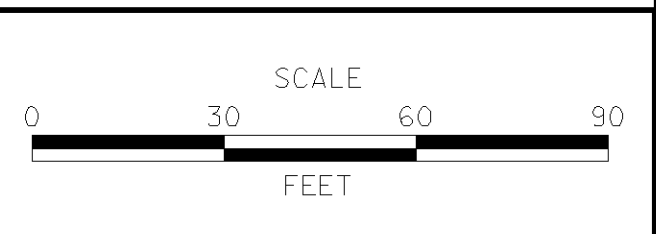


SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	583 LF
(B)	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1913 LF
(C)	5" DOTTED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP (ITEM 748548)	275 LF
(D)	WHITE ALKYD PAVEMENT STRIPE, SYMBOL/LEGEND (748015)	24 SF



ADDENDUMS / REVISIONS



**US13 @ ALLENS MILL ROAD/  
IRON HILL ROAD (S454A)**

CONTRACT T201000901	BRIDGE NO. 
COUNTY SUSSEX	DESIGNED BY: 
	CHECKED BY: 

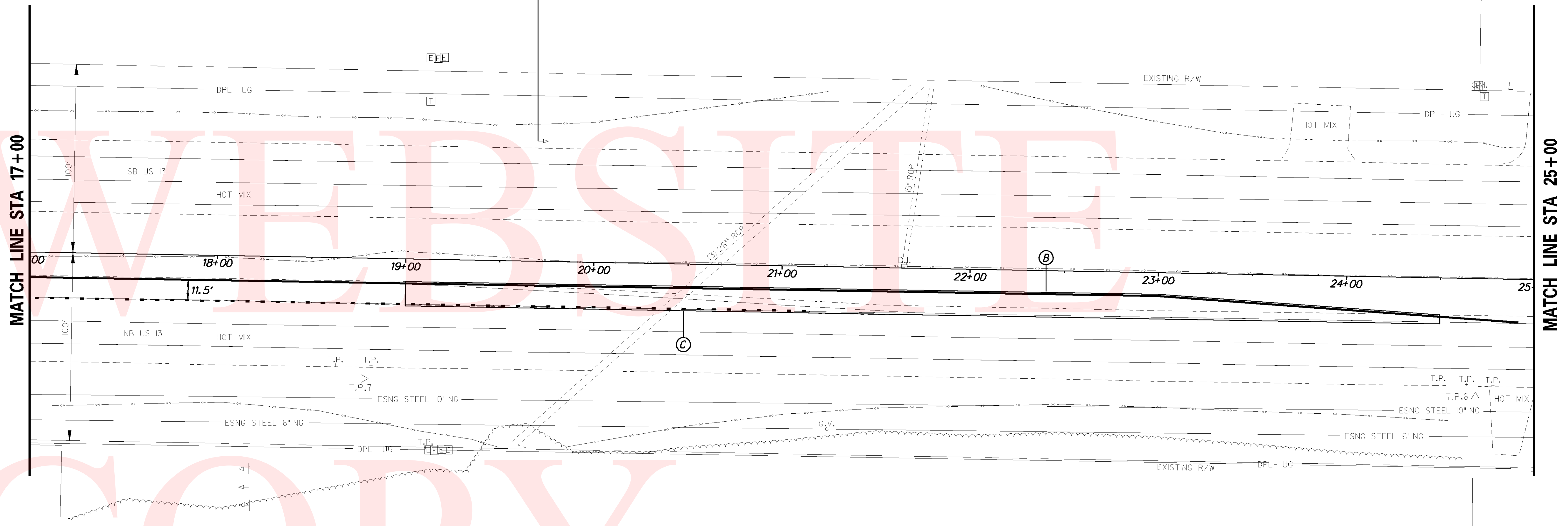
**SIGNING, STRIPING  
AND CONDUIT PLAN**

SHEET NO. 22
TOTAL SHTS. 24



# UNOFFICIAL

BRIDGE FARM LLC  
5-32-13.00-62.01  
DR 3590-009



RANDY M. & PAMELA M. MERRITT  
5-32-13.00-81.00  
DR 2642-192

SIGNING LEGEND		PAVEMENT MARKINGS LEGEND		
①	REMOVE EXISTING SIGN	SYMBOL	ITEM	QUANTITY
②	EXISTING SIGN TO REMAIN	(A)	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	0 LF
③	PLACE NEW SIGN	(B)	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	830 LF
④	RENEW EXISTING SIGN	(C)	5" DOTTED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP (ITEM 748548)	425 LF
⑤	REPOSITION EXISTING SIGN			



# COPY

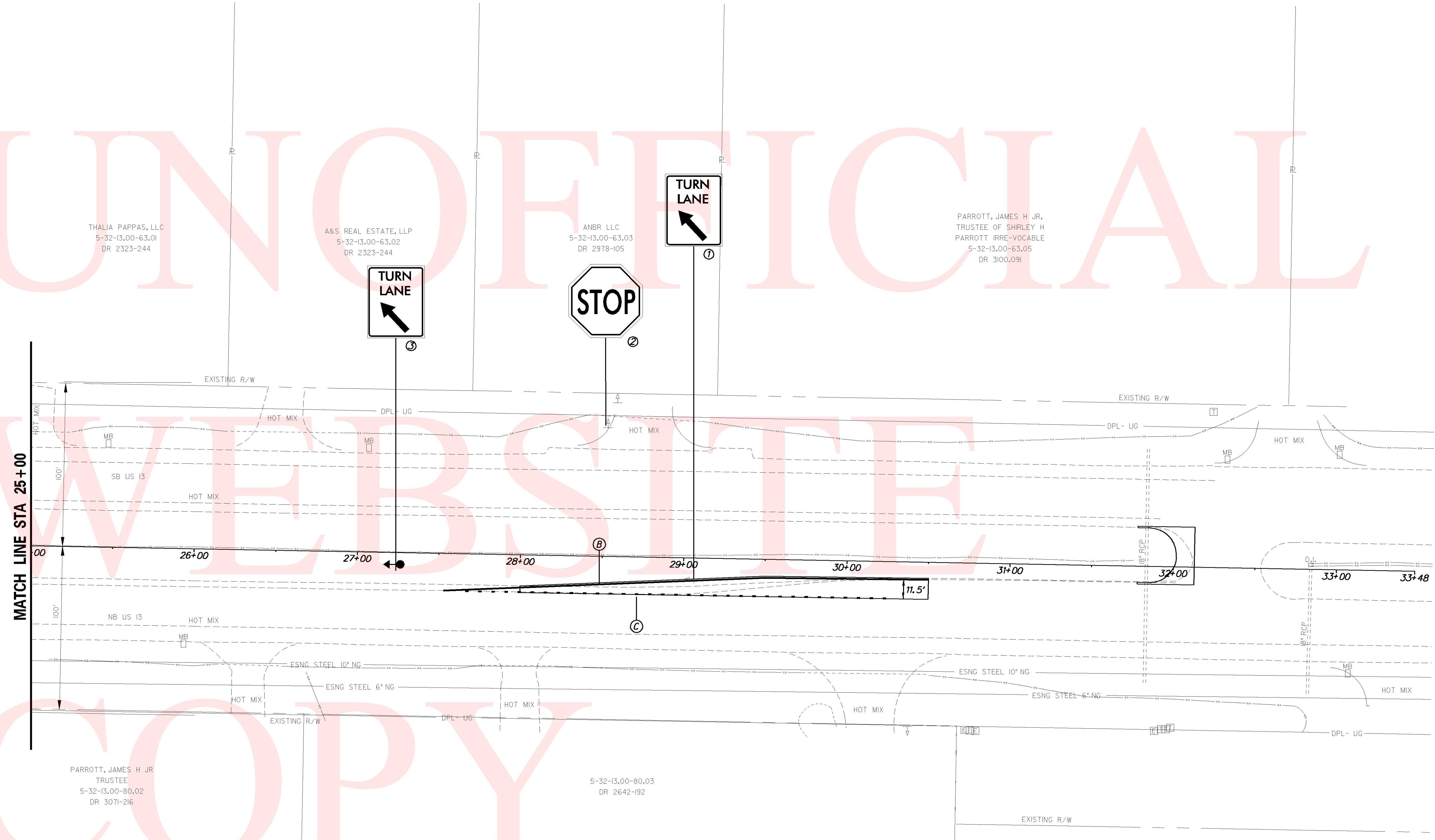
UNOFFICIAL

THALIA PAPPAS, LLC  
5-32-13.00-63.01  
DR 2323-244

A&S REAL ESTATE, LLP  
5-32-13.00-63.02  
DR 2323-244

ANBR LLC  
5-32-13.00-63.03  
DR 2978-105

PARROTT, JAMES H JR,  
TRUSTEE OF SHIRLEY H  
PARROTT IRRE-VOCABLE  
5-32-13.00-63.05  
DR 3100.091



MATCH LINE STA 25+00

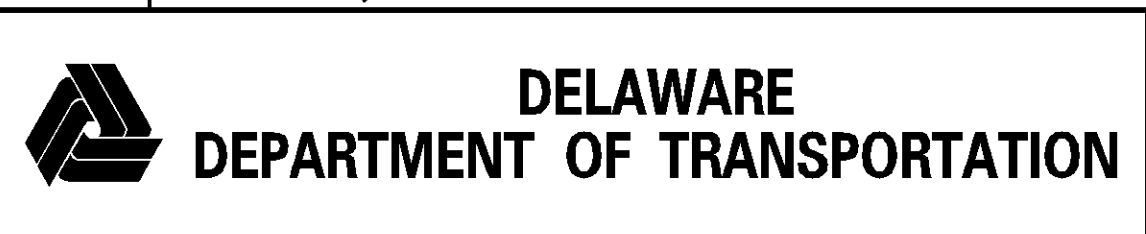
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
Ⓐ	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	100 LF
Ⓑ	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	300 LF
Ⓒ	5" DOTTED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP (ITEM 748548)	150 LF

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

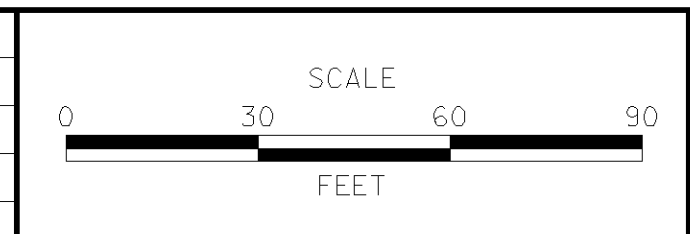
PARROTT, JAMES H JR  
TRUSTEE  
5-32-13.00-80.02  
DR 3071-216

5-32-13.00-80.03  
DR 2642-192

PUSEY RENTALS LLC,  
5-32-13.00-80.03  
DR 2642-192



ADDENDUMS / REVISIONS	



**US13 @ ALLENS MILL ROAD/  
IRON HILL ROAD (S454A)**

CONTRACT T201000901	BRIDGE NO. 
COUNTY SUSSEX	DESIGNED BY: 
	CHECKED BY: 

**SIGNING, STRIPING  
AND CONDUIT PLAN**

SHEET NO. 24
TOTAL SHTS. 24

