THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY UNITS

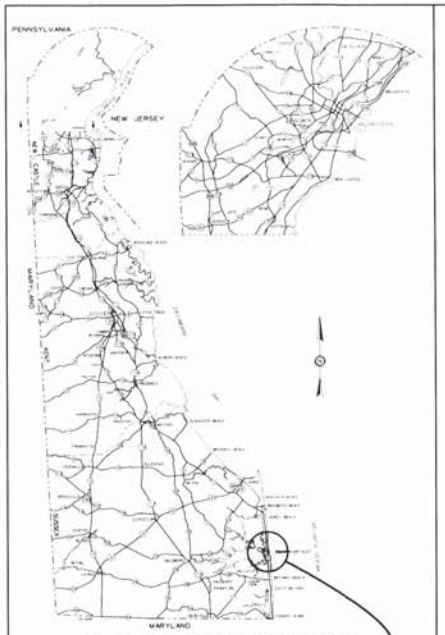
CONSTRUCTION PLANS FOR:

INDIAN RIVER INLET
PARK ENHANCEMENTS

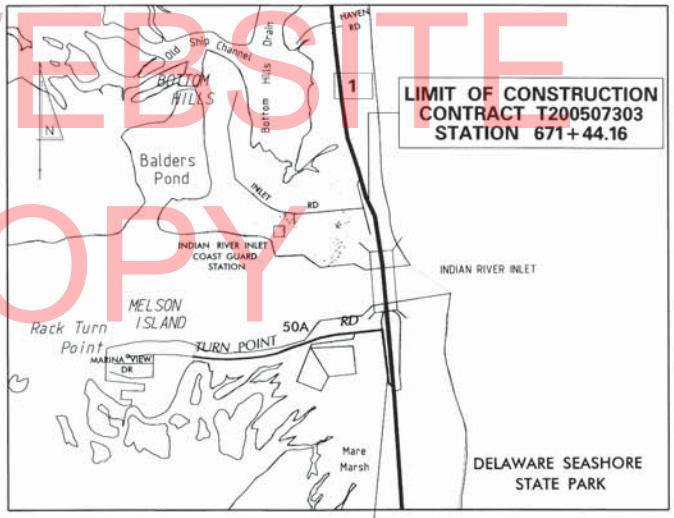
CONTRACT NUMBER: T200507303
FEDERAL AID PROJECT NUMBER: NHS-S050(20)

COUNTY: SUSSEX M.R. #: N/A

UNOFFICIAL WEBSITE COPY



GENERAL LOCATION OF CONTRACT



LIMIT OF CONSTRUCTION
CONTRACT T200507303
STATION 671+44.16

LIMIT OF CONSTRUCTION
CONTRACT T200507303
STATION 922+25.77

DESIGN DESIGNATION

FUNCTIONAL CLASS: LOCAL ROAD (RURAL)		D.H.V. PROJECTED: N/A	YEAR: N/A
TYPE OF CONSTRUCTION: NEW CONSTRUCTION		DESIGN SPEED: 25 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	

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TOTAL SHEETS: 282

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME
23-073-03	DP PH 1N OF FOVER NEAR RIVER INLET
29-073-01	DP PH 1N NEAR RIVER INLET ROADWAY AND APPROACHES, PHASE 1 AND BRIDGE TO MELSON

PREPARED BY
THE CONSULTING FIRM OF
RUMMEL, KLEPPER & KAHL, LLP
RESPONSIBLE SHEETS: 1-181

SEAL

Nancy R. Bingham 2.8.13
RECOMMENDED DATE

PREPARED BY
THE CONSULTING FIRM OF
BECKER MORGAN GROUP
RESPONSIBLE SHEETS: 182-282

WAYNE J. SHADDY NO. 5985 STATE OF DELAWARE REGISTERED ARCHITECT
SEAL

2-17-13
RECOMMENDED DATE

RECOMMENDED

SQUAD MANAGER, CONSTRUCTION — DATE 3/14/13

GROUP ENGINEER, CONSTRUCTION — DATE 3/21/2013

ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS (CONSTRUCTION) — DATE

RECOMMENDED
Vincent W. Davis
STORMWATER ENGINEER
DATE 19 MAR 2013
VINCENT W. DAVIS REGISTERED No. 12098 STATE OF DELAWARE PROFESSIONAL ENGINEER
SEAL

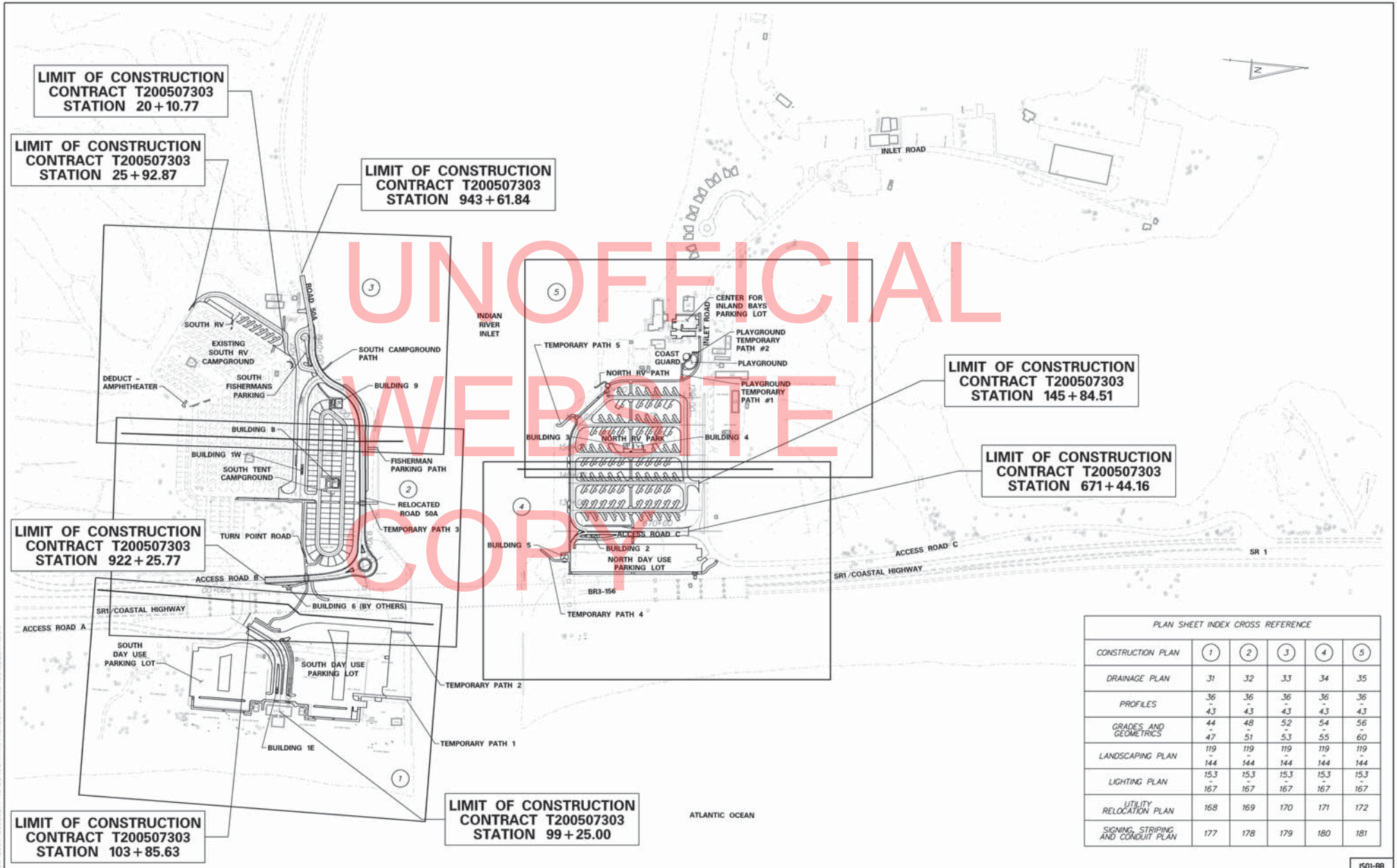
RECOMMENDED
SQUAD MANAGER, TRANSPORTATION SOLUTIONS (PROJECT DEVELOPMENT OR BRIDGE DESIGN)
DATE
SEAL

RECOMMENDED
Douglas Rolle
BRIDGE DESIGN ENGINEER
DATE March 19, 2013
DOUGLAS A. ROLLE No. 11450 STATE OF DELAWARE PROFESSIONAL ENGINEER
SEAL

RECOMMENDED
GROUP ENGINEER, PROJECT DEVELOPMENT
DATE
SEAL

RECOMMENDED
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS
DATE March 20, 2013
BARRY J. SHOCK REGISTERED No. 10774 STATE OF DELAWARE PROFESSIONAL ENGINEER
SEAL

APPROVED
Nikki Dambart
CHIEF ENGINEER
DATE 27 MARCH, 2013
NIKKI M. DAMBART REGISTERED No. 9999 STATE OF DELAWARE PROFESSIONAL ENGINEER
SEAL



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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 200 400 600 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT T200507303 | COUNTY SUSSEX | BRIDGE NO. X | DESIGNED BY: RK&K | CHECKED BY: RK&K

PLAN SHEET INDEX (BASE BID)

IS01-BB | SHEET NO. 2 | TOTAL SHTS. 282

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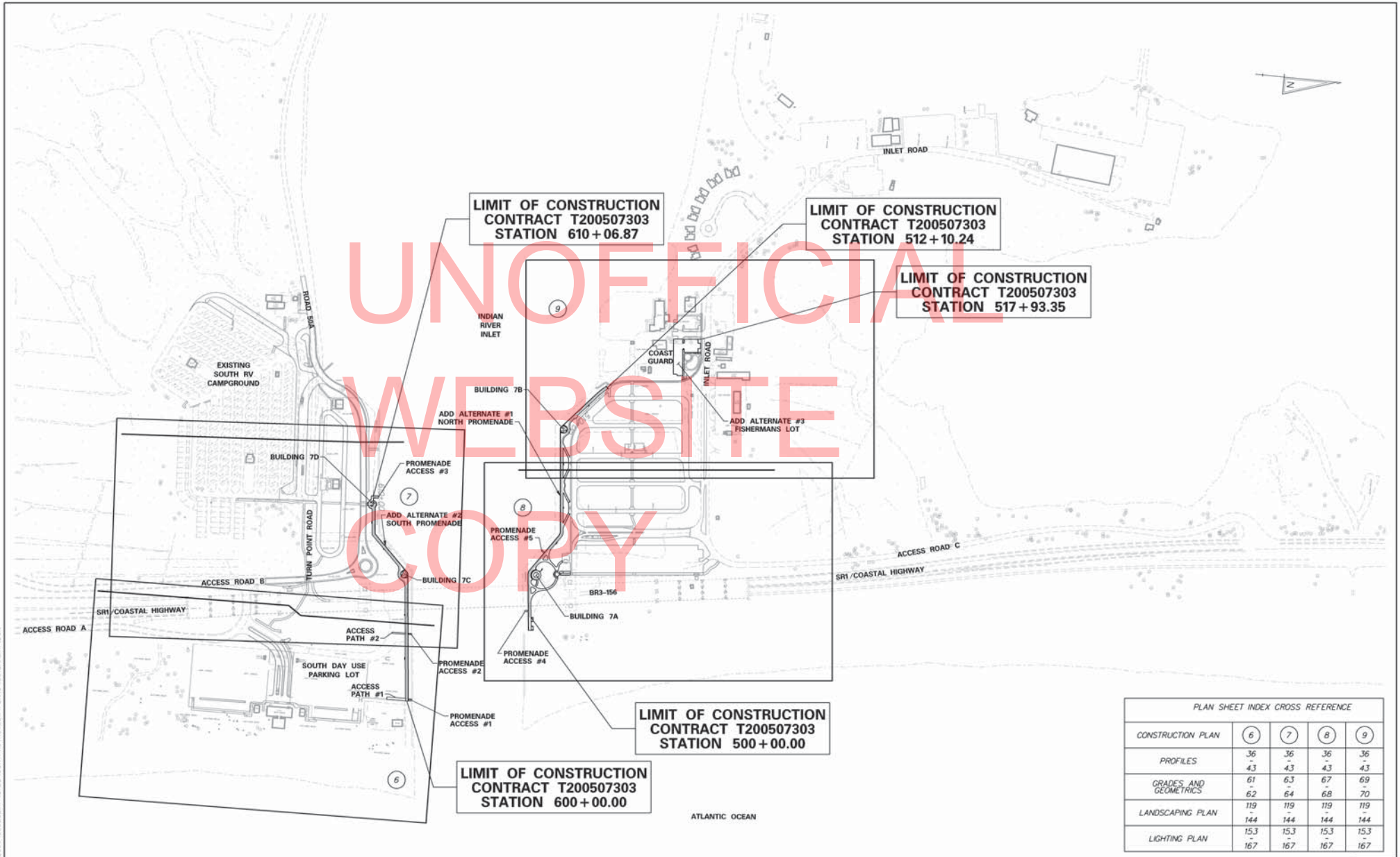

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 200 400 600 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT T200507303 | COUNTY SUSSEX | BRIDGE NO. X | DESIGNED BY: RK&K | CHECKED BY: RK&K

PLAN SHEET INDEX (ADD ALTERNATES)

IS01-AA | SHEET NO. 3 | TOTAL SHTS. 282

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EXISTING SYMBOLS

DRAINAGE

	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
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
F.P.	FLAG POLE
	GUARDRAIL - STEEL BEAM
	GUARDRAIL - WIRE ROPE
LAMP	LAMP AND POST - RESIDENTIAL
MB	MAILBOX
P.M.	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
20	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
	CABLE TV DISTRIBUTION BOX
	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
	GAS MANHOLE
G.M.	GAS METER
G.V.	GAS VALVE
G.P.	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
	SANITARY SEWER MANHOLE
S.V.	SANITARY SEWER VALVE
VENT	SANITARY SEWER VENT OR CLEANOUT
S.D.F.	SEPTIC DRAIN FIELD
	TELEPHONE BOOTH
	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
	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
	PREVIOUSLY ABANDONED UTILITY

UTILITY COMPANY FACILITIES

DP-E / DP-E-OH	DELMARVA POWER- ELECTRIC / DELMARVA POWER- ELECTRIC OVERHEAD
MED-C	MEDIACOM
PRS	PRIVATE SANITARY
PRS	PRIVATE WATER
SB	SAND BYPASS
SC-S	SUSSEX COUNTY- SEWER
SSW-W	SUSSEX SHORES WATER COMPANY
UNK	UNKNOWN UTILITY
VER-C / VER-C-OH	VERIZON / VERIZON OVERHEAD
VER-FO	VERIZON- FIBER OPTIC

PROPOSED SYMBOLS

CONSTRUCTION

	CONCRETE SAFETY BARRIER - PERMANENT
BFS	BIOFILTRATION SWALE
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	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
C.R.	CURB RAMP / TYPE
C.R.-W	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
C.S.F.	CONSTRUCTION SAFETY FENCE
D.I.	DRAINAGE INLET
D.N.D.	DO NOT DISTURB
E.D.	ENERGY DISSIPATOR
F	FENCE
F.E.S.	FLARED END SECTION
F/F	FILL WITH FLOWABLE FILL
F.S.	FILTRATION STRUCTURE
G.R.	GUARDRAIL
J.B.	JUNCTION BOX
M.H.	MANHOLE
M	MONUMENT - RIGHT-OF-WAY
P	PIPE
R/C	RELOCATE BY CONTRACTOR
R/O	RELOCATE BY OTHERS
R/M/C	REMOVE BY CONTRACTOR
R/M/O	REMOVE BY OTHERS
U.D.	UNDERDRAIN / LENGTH
U.D.O.	UNDERDRAIN OUTLET PIPE

LANDSCAPING

L.S.	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

SC-S	PROPOSED SANITARY SEWER
DP-G	PROPOSED DELMARVA POWER GAS
PRW	PROPOSED WATER
VER-C	PROPOSED VERIZON COMMUNICATIONS
DP-E	PROPOSED DELMARVA POWER ELECTRIC
	PROPOSED UTILITY POLE
	PROP. ELEC. PAD MOUNTED EQUIPMENT
	PROP. ELECTRIC OUTLET
	PROP. VERIZON HAND HOLE
	PROPOSED SANITARY SEWER MANHOLE
W.V.	PROPOSED WATER VALVE
F.H.	PROPOSED FIRE HYDRANT
	HOSE STATION
C.O.	CLEANOUT

MISCELLANEOUS

	RAILING
TW	TOP OF WALL
BW	BOTTOM OF WALL
10	EXISTING CONTOUR
10	PROPOSED CONTOUR
	FISHERMANS' PARKING PATH, TEMPORARY PATHS 1-5 AND TEMPORARY PLAYGROUND PATHS 1 & 2 - 8" DelDOT GABC, CHOKED WITH 1½" STONE DUST ROLLED INTO GRADED AGGREGATE
	SOUTH TENT CAMPGROUND - SAND
	NORTH & SOUTH PROMENADE WALKWAYS- 6" P.C.C. SPECIAL, TYPE 1
	NORTH & SOUTH PROMENADE NODES - 6" P.C.C. SPECIAL, TYPE 2
	NORTH & SOUTH RV PICNIC TABLE AREA - 6" DELDOT GABC
	NORTH & SOUTH RV PARK - 10" PCC SANITARY CLEANOUT/NORTH RV PARK DUMPSTER PAD
	SOUTH PYLON ACCESS ROAD - 11" DELDOT GABC
	CENTER FOR INLAND BAYS PARKING LOT POROUS PAVERS

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	BRIDGE NO.	X	LEGEND
T200507303	DESIGNED BY: RK&K		
COUNTY	CHECKED BY: RK&K		
SUSSEX			

	LG01
SHEET NO.	4
TOTAL SHTS.	282

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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. PVC SLEEVES FOR SIGN POST NOTE REMOVED. SEE MISCELLANEOUS NOTE 26 FOR CORE DRILL NOTE FOR ALL SIGN POSTS.

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. 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
( ) 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
( )	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 UNDER ITEM 743031.

9. THE DISTURBED AREA FOR THIS PROJECT IS 39.45 ACRES FOR THE BASE BID AND 6.07 ACRES FOR THE ADD ALTERNATES.

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

12. 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

13. 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.

14. ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
- CONCRETE HEADWALLS
- DRAINAGE MANHOLES
- LIGHT POLES
- CHAIN LINK FENCE
- CHAIN LINK FENCE GATES
- CONTACT STATIONS
- BOLLARDS

ITEMS REMOVED UNDER 211000 SHALL BE REMOVED TO THE LIMITS DESCRIBED IN STANDARD SPECIFICATION 211000 OR TO A DEPTH OF 3' BELOW PROPOSED GRADE, WHICHEVER IS GREATER.

15. 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.

16. WHEN PERFORMING ANY EXCAVATION OR BACKFILLING OF ANY EXCAVATION, THE CONTRACTOR SHALL PROVIDE GROUNDWATER LEVEL AT LEAST ONE FOOT BELOW THE EXCAVATION ELEVATION. THE CONTRACTOR SHALL ALSO PROVIDE NECESSARY DEWATERING TO STABILIZE EXCAVATED SLOPES DURING CONSTRUCTION AND UNTIL THE SLOPES ARE STABILIZED AS DETERMINED BY THE ENGINEER. THE CONTRACTOR IS NOTIFIED THAT REMOVAL OF WATER FROM BELOW THE GROUNDWATER TABLE WILL REQUIRE PERMITS FROM DNREC AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS TO SUPPORT HIS MEANS AND METHODS OF CONSTRUCTION. ALL COSTS SHALL BE INCIDENTAL TO THE APPLICABLE EXCAVATION ITEM.

SECTION 300

17. 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 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 BEING EQUAL TO THE ACTUAL QUANTITY USED UNDER 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 EXCESS 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 760507.
   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. MILLINGS GENERATED UNDER ITEM 760502 - PAVEMENT MILLINGS, TAPERCUT 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.

   c. 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 FOR 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 600

18. 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

19. 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.

20. 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.

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

22. 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.

23. 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

24. 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.

25. IT IS THE INTENT OF THE CONTRACT TO BALANCE THE MATERIAL (EARTHMOVING AND GRADED AGGREGATE BASE COURSE) WITHIN THE NORTH RV LOT AND NORTH DAY USE PARKING LOT. THE CONTRACTOR SHALL ROUGH GRADE THE PHASE 1 AREA PLACING MATERIAL IN SEPARATE STOCKPILES FOR FUTURE USE IN PHASE 3A (NORTH RV CAMPGROUND CONSTRUCTION), AFTER THE NORTH DAY USE LOT IS COMPLETE AND OPEN. THE CONTRACTOR SHALL BE PAID FOR THE EXCAVATED MEASURED QUANTITIES OF EMBANKMENT PER STANDARD SPECIFICATION SECTION 202. GRADED AGGREGATE BASE COURSE SHALL BE MEASURED AND PAID PER STANDARD SPECIFICATION 302. NO ADDITIONAL PAYMENT SHALL BE MADE FOR STOCKPILING OR RELOCATING STOCKPILES OF EXCAVATED SOIL OR AGGREGATE FOR FUTURE USE. SHOULD EXCESS MATERIAL IN THE STOCKPILES REMAIN AT END OF PHASE 3A, THE CONTRACTOR SHALL BE REQUIRED TO DISPOSE OF THE MATERIALS OFFSITE AT NO ADDITIONAL COST TO DELDOT.

26. THE CONTRACTOR SHALL PLACE THE EXISTING RECYCLED CRUSHED CONCRETE, CURRENTLY STOCKPILED UNDER THE BRIDGE ON THE SOUTH SIDE OF THE INLET, IN THE BASE OF THE SOUTHEAST DAY USE LOT - NORTH PARKING LOT PAVING. THE RECYCLED CRUSHED CONCRETE SHALL BE PLACED IN A CONTINUOUS LAYER TOPPED WITH A LAYER OF GRADED AGGREGATE BASE COURSE. THE COST OF THIS WORK SHALL BE PAID FOR UNDER ITEM 302513, CRUSHED P.C. CONCRETE BASE COURSE. THE CONTRACTOR SHALL NOT BE ALLOWED TO MIX DIFFERENT MATERIALS (OR SIMILAR MATERIALS FROM DIFFERENT SOURCES) TO MEET THE REQUIREMENTS OF 302513 CRUSHED P.C. CONCRETE BASE COURSE. ANY RELOCATION OF THIS MATERIAL SHALL BE INCIDENTAL TO 302513 CRUSHED P.C. CONCRETE BASE COURSE.

27. INTERIM MILESTONE: THE CONTRACTOR SHALL COMPLETE ALL WORK LISTED IN PHASES ONE AND TWO, INCLUDING RECEIPT OF ALL CERTIFICATES OF OCCUPANCY FOR THE FOLLOWING BUILDINGS NO LATER THAN 12 MAY 2014:
BLDG #2 ADMIN CONTACT STATION- NORTH DAY USE PARKING LOT
BLDG #9 SOUTHWEST BATH HOUSE-SOUTH TENT CAMPGROUND
BLDG #8 SOUTHEAST BATH HOUSE-SOUTH TENT CAMPGROUND
BLDG #1E SOUTHEAST CONTACT STATION-DAY USE PARKING LOT
BLDG #1W SOUTH WEST CONTACT STATION-SOUTH RV CAMPGROUND
FAILURE TO COMPLETE ALL WORK REQUIREMENTS FOR THE INTERIM MILESTONE BY 12 MAY 2014 SHALL RESULT IN THE ASSESSMENT OF A PARK USER COST IN THE AMOUNT OF $2,460.00 PER DAY.

28. THE CONTRACTOR SHALL COMPLETE ALL WORK LISTED IN PHASE THREE INCLUDING RECEIPT OF ALL CERTIFICATES OF OCCUPANCY FOR THE FOLLOWING BUILDINGS NO LATER THAN 29 AUGUST 2014:
BLDG #3 RV LAUNDRY FACILITY-NORTH RV PARK
BLDG #4 RV SHOWER FACILITY-NORTH RV PARK
BLDG #5 BATH HOUSE-NORTH DAY USE PARKING LOT
FAILURE TO COMPLETE ALL WORK IN PHASE THREE INCLUDING RECEIPT OF ALL CERTIFICATES OF OCCUPANCY FOR THE PREVIOUSLY MENTIONED BUILDINGS NO LATER THAN 29 AUGUST 2014 WILL RESULT IN THE ASSESSMENT OF A PARK USER COST IN THE AMOUNT OF $1,230.00 PER DAY IN ADDITION TO LIQUIDATED DAMAGES.

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	Base Bid								Add Alternate					
	North RV and North Day Use Lot	North RV Playground	Center for Inland Bays Parking Lot and Coast Guard Entrance	South Day Use Lot	South Tent Campground/Relocated Road 50A/Park PB	Access Road B	Park PC - South Dump Station	BASE BID PROJECT TOTALS	No. 1 - North Promenade	No.1 - North Promenade PROJECT TOTALS	No. 2 - South Promenade	No.2 - South Promenade PROJECT TOTALS	No. 3 - Fishermans Lot	No. 3 - Fishermans Lot PROJECT TOTALS
EXCAVATION - ITEM 202000 (CY) [NEED = '-' / EXCESS = '+']														
EX01 : FROM CROSS SECTIONS / MODELS (+)	38868	138	496	10558	5159	706	475	56401	184	184	840	840	539	539
EX02 : BITUMINOUS PAVEMENT REMOVED IN FILL SECTIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EX03 : TOPSOIL REMOVED UNDER FILL SECTIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EX04 : TOPSOIL PLACED IN CUT SECTIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EX05 : ROOT MAT REMOVED IN CUT SECTIONS (-)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EX06 : CURB AND/OR CURB AND GUTTER EXCAVATION (-)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EX07 : UNDERDRAIN EXCAVATION (-)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EX08 : ROCK EXCAVATION (-)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EX09 : REMOVAL OF PCC PAVEMENT, CURBS, SIDEWALK, ETC. (-)	0	0	0	54	0	0	0	54	0	0	0	0	0	0
EXTOTAL : TOTAL EXCAVATION	38868	138	496	10504	5159	706	475	56346	184	184	840	840	539	539
STORMWATER MANAGEMENT POND EXCAVATION - ITEM 271000 (CY) [NEED = '-' / EXCESS = '+']														
SWEX01 : FROM CROSS SECTIONS / MODELS (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWEX02 : TOPSOIL REMOVED UNDER FILL SECTIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWEX03 : TOPSOIL PLACED IN CUT SECTIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWEX04 : ROOT MAT REMOVED (-)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWEX05 : ROCK EXCAVATION (-)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWEXTOTAL : TOTAL STORMWATER MANAGEMENT POND EXCAVATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCAVATION AVAILABLE FOR EMBANKMENT (CY) [NEED = '-' / EXCESS = '+']														
EXTOTAL : TOTAL EXCAVATION (+) [ITEM 202000]	38868	138	496	10504	5159	706	475	56346	184	184	840	840	539	539
SWEXTOTAL : TOTAL STORMWATER MANAGEMENT POND EXCAVATION (+) [ITEM 271000]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVEX01 : EXCAVATION AND BACKFILLING FOR STRUCTURES (+) [ITEM 207000]	0	0	0	82*	0	0	0	82*	1662**	1662**	1317**	1317**	0	0
AVEX02 : EXCAVATION AND BACKFILLING FOR PIPE TRENCHES (+) [ITEM 208000 + PIPES < 24" IN DIAMETER]	274	0	0	0	0	6	0	280	0	0	0	0	0	0
AVEX03 : CHANNEL EXCAVATION (+) [ITEM 203000]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVEX04 : EXCAVATION FROM LATERAL OR LONGITUDINAL DITCHING (+) [ITEM 714000]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVEX05 : EXCAVATION FROM CURBS AND/OR CURB AND GUTTER (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVEX06 : EXCAVATION FROM UNDERDRAINS (+) [ITEM 715000X]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVEX07 : MISCELLANEOUS EXCAVATIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVEX08 : TOPSOIL REMOVED IN CUT AND/OR FILL SECTIONS (-)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVEX09 : TOPSOIL REMOVED IN CUT AND/OR FILL SECTIONS FOR STORMWATER MANAGEMENT PONDS (-)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVEX10: UNSUITABLE MATERIALS (-)	16039	59	128	3241	1628	146	235	21476	24	24	0	0	80	80
AVEXTOTAL : TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT	23103	79	368	7345	3531	567	240	35233	1822	1822	2157	2157	459	459
EMBANKMENT AND BORROW, TYPE 'F' REQUIRED (CY) [NEED = '-' / EXCESS = '+']														
EMRF01 : FROM CROSS SECTIONS / MODEL (+) [EMBANKMENT REQUIRED BELOW SUBGRADE OR CAPPING]	5424	0	0	2872	3363	530	345	12534	6969	6969	1709	1709	0	0
EMRF02 : TOPSOIL REMOVED UNDER FILL (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMRF03 : ROOT MAT REMOVED UNDER FILL (+)	0	0	0		0	0	0	0	0	0	0	0	0	0
EMRF04 : UNSUITABLE MATERIAL REMOVED UNDER FILL (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMRF05 : PCC REMOVED UNDER FILL (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMRF06 : BITUMINOUS PAVEMENT REMOVED UNDER FILL (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMRF07 : TOPSOIL TO BE PLACED IN FILL (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMRF08 : SUBTOTAL OF EMBANKMENT AND BORROW, TYPE 'F' REQUIRED	5424	0	0	2872	3363	530	345	12534	6969	6969	1709	1709	0	0
EMRF09 : COMPACTION FACTOR APPLIED TO THE SUBTOTAL (%)	1.2	1.2	1.2	1.2	1.2	1.2	1.2		1.2		1.2		1.2	
EMRFTOTAL : TOTAL EMBANKMENT AND BORROW, TYPE 'F' REQUIRED	6509	0	0	3446	4036	636	414	15041	8363	8363	2051	2051	0	0
TOPSOIL SUMMARY (CY) [NEED = '-' / EXCESS = '+']														
TOP01 : TOPSOIL SALVAGED FROM CUT SECTIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOP02 : TOPSOIL SALVAGED FROM FILL SECTIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOP03 : TOPSOIL SALVAGED FROM STORMWATER MANAGEMENT PONDS (+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOP04 : TOPSOIL REQUIRED (-) (NORTH RV ONLY)	4202	0	0	0	0	0	0	4202	0	0	0	0	0	0
TOPTOTAL : TOTAL TOPSOIL	-4202	0	0	0	0	0	0	-4202	0	0	0	0	0	0
MATERIAL BALANCE (CY) [NEED = '-' / EXCESS = '+']														
BORROW, TYPE 'A'	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BORROW, TYPE 'B'	250	0	0	0	0	0	0	250	0	0	0	0	0	0
BORROW, TYPE 'C'	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BORROW, TYPE 'F'	16594	79	368	3898	-504	-69	-174	20192	-6541	-6541	106	106	459	459
TOPSOIL	-4202	0	0	0	0	0	0	-4202	0	0	0	0	0	0
UNSUITABLE MATERIAL	16039	59	128	3241	1628	146	235	21476	24	24	0	0	80	80

* 207000 IS INCIDENTAL TO ITEM 602510 CONCRETE CULVERT - SEE DETAIL SHEET DT02-BB.

** 207000 IS INCIDENTAL TO ITEM 602772 MECHANICALLY STABILIZED EARTH WALLS. SEE SHEET S06-AA.

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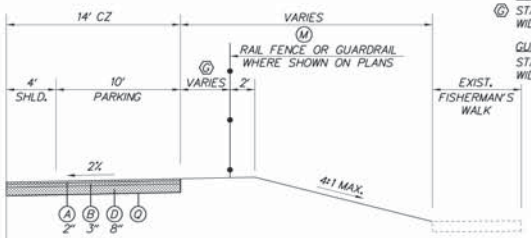
LEGEND

- (A) ITEM 401804 - WMA, TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
- (B) ITEM 401813 - WMA, TYPE B, 160 GYRATIONS, PG 70-22
- (C) ITEM 701026 - P.C.C. MONOLITHIC MEDIAN
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 705001 - P.C.C. SIDEWALK, 4"
- (I) ITEM 705002 - P.C.C. SIDEWALK, 6"
- (M) SEE PLANTING PLANS FOR VEGETATIVE TREATMENT
- (N) ITEM 734013 - PERMANENT GRASS SEEDING - DRY GROUND
- (O) ITEM 701011 - PORTLAND CEMENT CONCRETE CURB, TYPE 2
- (P) ITEM 701014 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-6
- (Q) ITEM 713002 - GEOTEXTILE, SEPARATION
- (R) 1½" STONE DUST, SEE NOTE 1
- (S) ITEM 302513 - CRUSHED P.C. CONCRETE BASE COURSE

NOTE:

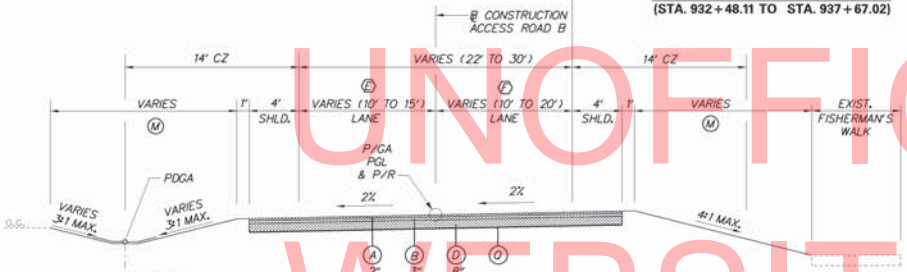
1. STONE DUST SHALL NOT BE MEASURED SEPARATELY AND SHALL BE CONSIDERED INCIDENTAL TO AND WILL BE INCLUDED IN THE COST OF 302007 GRADED AGGREGATE BASE COURSE, TYPE B.



RAIL FENCE
(G) STA. 932+58.72 TO STA. 934+85.67
WIDTH = 4' TO 9.5'

GUARDRAIL
STA. 934+85.67 TO STA. 937+90.23
WIDTH = 8'

RELOCATED ROAD 50A
(STA. 932+48.11 TO STA. 937+67.02)



℄ DITCH
SEE DRAINAGE PLAN FOR NORTHING, EASTING, ELEVATION, DITCH DEPTH AND DITCH TREATMENT

RELOCATED ROAD 50A
STA. 930+02 ½ TO STA. 943+50.00

(E) STA. 929+81.26 TO STA. 930+67.82
WIDTH VARIES 15' TO 11'
STA. 930+67.82 TO STA. 935+25.05
WIDTH= 11'
STA. 935+25.05 TO STA. 935+55.05
WIDTH VARIES 11' TO 13'
STA. 935+55.05 TO STA. 940+21.75
WIDTH= 13'
STA. 940+21.75 TO STA. 941+47.01
WIDTH VARIES 13' TO 10'.
STA. 941+47.01 TO STA. 943+50.00
WIDTH VARIES 10' TO EXISTING.

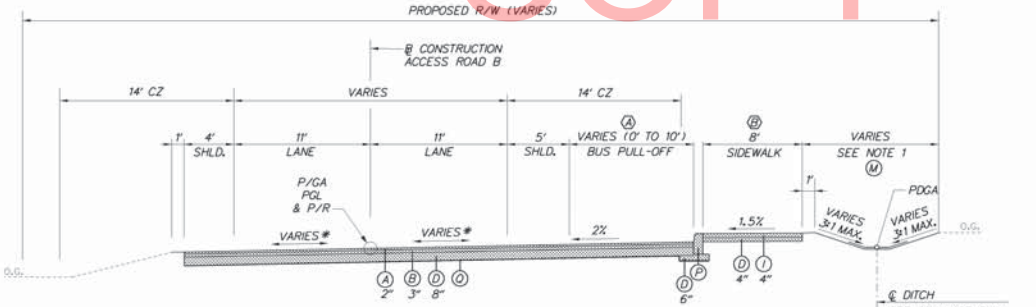
(F) STA. 930+02 ½ TO STA. 930+35.31
WIDTH VARIES 20' TO 15'
STA. 930+35.31 TO STA. 931+03.16
WIDTH VARIES 15' TO 11'
STA. 931+03.16 TO STA. 935+25.05
WIDTH= 11'
STA. 935+25.05 TO STA. 935+55.05
WIDTH VARIES 11' TO 13'
STA. 935+55.05 TO STA. 940+17.81
WIDTH= 13'
STA. 940+17.81 TO STA. 941+34.05
WIDTH VARIES 13' TO 10'
STA. 941+34.05 TO STA. 943+50.00
WIDTH VARIES 10' TO EXISTING.

(A) STA. 922+25.77 TO STA. 923+05.54
WIDTH VARIES 0' TO 10'
STA. 923+05.54 TO STA. 923+65.17
WIDTH= 10'
STA. 923+65.17 TO STA. 924+04.95
WIDTH VARIES 10' TO 0'

(B) STA. 923+05.54 TO STA. 924+04.95
SIDEWALK
STA. 923+24.70 TO STA. 923+46.51
BUS SHELTER PAD, SEE CONSTRUCTION DETAILS (BASE BID).

(C) STA. 924+04.95 TO STA. 924+76.27
LANE= 11'
STA 924+76.27 TO STA. 925+71.97
WIDTH VARIES 11' TO 15'

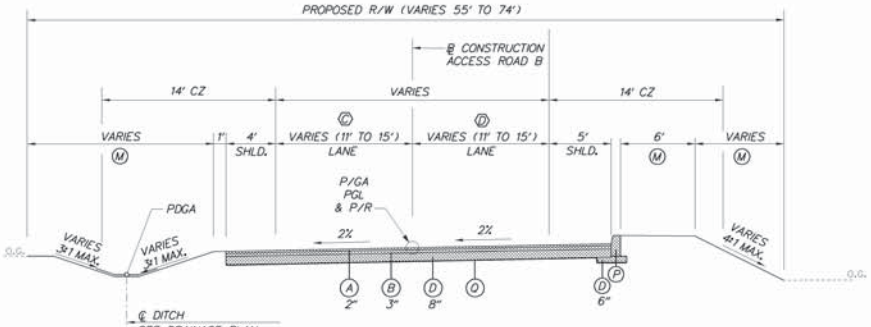
(D) STA. 924+04.95 TO STA. 924+98.61
LANE= 11'
STA 924+98.61 TO STA. 926+09.96
WIDTH VARIES 11' TO 15'



*STA. 922+25.77 TO STA. 922+85.77
SLOPE VARIES 2% RT TO LEVEL
STA. 922+85.77 TO STA. 923+45.77
SLOPE VARIES LEVEL TO 2% LT

℄ DITCH
SEE DRAINAGE PLAN FOR NORTHING, EASTING, ELEVATION, DITCH DEPTH AND DITCH TREATMENT

ACCESS ROAD B
STA. 922+25.77 TO STA. 924+04.95



℄ DITCH
SEE DRAINAGE PLAN FOR NORTHING, EASTING, ELEVATION, DITCH DEPTH AND DITCH TREATMENT

ACCESS ROAD B
STA. 924+04.95 TO STA. 926+09.96

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	TYPICAL SECTIONS (BASE BID)	TS01-88
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 7
					CHECKED BY: RK&K		TOTAL SHTS. 282

2/21/2013 9:57:23 AM
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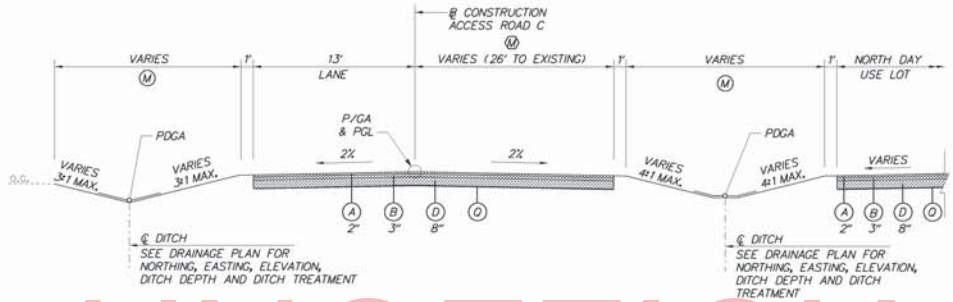
LEGEND

- (A) ITEM 401804 - WMA, TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
- (B) ITEM 401813 - WMA, TYPE B, 160 GYRATIONS, PG 70-22
- (C) ITEM 701026 - P.C.C. MONOLITHIC MEDIAN
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 705001 - P.C.C. SIDEWALK, 4"
- (I) ITEM 705002 - P.C.C. SIDEWALK, 6"
- (M) SEE PLANTING PLANS FOR VEGETATIVE TREATMENT
- (N) ITEM 734013 - PERMANENT GRASS SEEDING - DRY GROUND
- (O) ITEM 701011 - PORTLAND CEMENT CONCRETE CURB, TYPE 2
- (P) ITEM 701014 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-6
- (Q) ITEM 713002 - GEOTEXTILE, SEPARATION
- (R) 1½" STONE DUST, SEE NOTE 1
- (S) ITEM 302513 - CRUSHED P.C. CONCRETE BASE COURSE

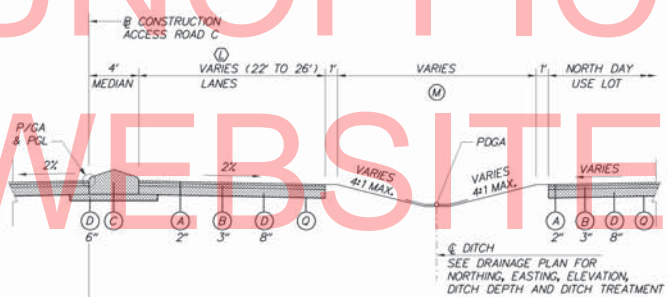
NOTE:
1. STONE DUST SHALL NOT BE MEASURED SEPARATELY AND SHALL BE CONSIDERED INCIDENTAL TO AND WILL BE INCLUDED IN THE COST OF 302007 GRADED AGGREGATE BASE COURSE, TYPE B.

(M) STA. 669+29.71 TO STA. 670+19.94
WIDTH= 26'
STA. 670+19.94 TO STA. 671+40.00
WIDTH VARIES 26' TO EXIST.



ACCESS ROAD C
STA. 669+27.91 TO STA. 671+40.00

(L) STA. 668+09.50 TO STA. 668+43.72
WIDTH VARIES 26' TO 22'
STA. 668+43.72 TO STA. 669+29.71
WIDTH= 22'



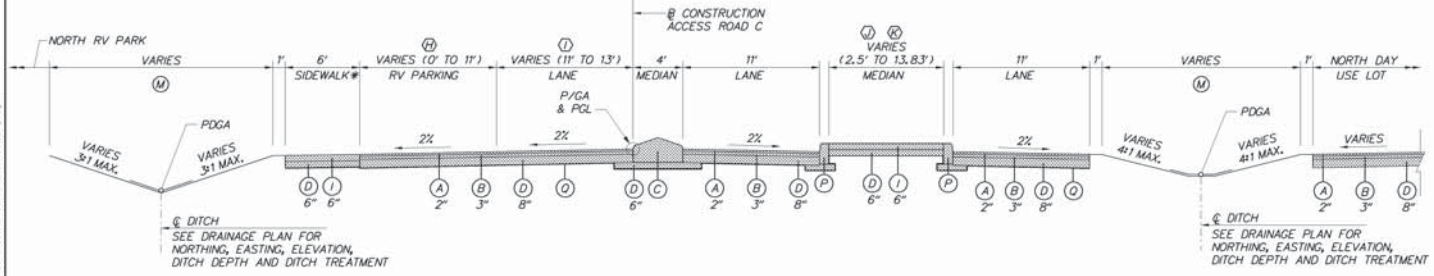
ACCESS ROAD C
(STA. 668+09.50 TO STA. 669+29.71)

(H) STA. 666+70 TO STA. 668+28.71
WIDTH= 11'
STA. 668+28.71 TO STA. 668+78.71
WIDTH VARIES 11' TO 0'

(I) STA. 666+69.87 TO STA. 668+78.71
WIDTH= 11'
STA. 668+78.71 TO STA. 669+29.71
WIDTH= 13'

(J) STA. 666+40.70 TO STA. 666+89.75
WIDTH VARIES 4' TO 13.83'
STA. 666+89.75 TO STA. 667+35.60
WIDTH= 13.83'
STA. 667+35.60 TO STA. 668+09.50
WIDTH VARIES 13.83' TO 2.5'

(K) TREATMENT:
STA. 666+40 ±/- TO STA. 667+28.56
P.C.C. SIDEWALK, 6" (705002)
6" GABC (302007)
STA. 667+28.56 TO STA. 667+99.51
SEE LANDSCAPING PLANS
STA. 667+99.51 TO STA. 668+09.50
P.C.C. SIDEWALK, 6" (705002)
6" GABC (302007)



*SIDEWALK STA. 666+61.89 TO STA. 668+88.71

ACCESS ROAD C
STA. 666+69.87 TO STA. 669+29.71

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	TYPICAL SECTIONS (BASE BID)	TS02-B8
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 8
					CHECKED BY: RK&K		TOTAL SHTS. 282

2/21/2013 1:53:52 PM
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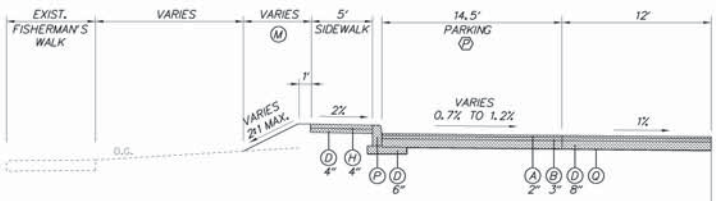
LEGEND

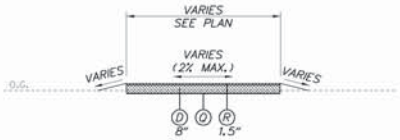
- (A) ITEM 401804 - WMA, TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
- (B) ITEM 401813 - WMA, TYPE B, 160 GYRATIONS, PG 70-22
- (C) ITEM 701026 - P.C.C. MONOLITHIC MEDIAN
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 705001 - P.C.C. SIDEWALK, 4"
- (I) ITEM 705002 - P.C.C. SIDEWALK, 6"
- (M) SEE PLANTING PLANS FOR VEGETATIVE TREATMENT
- (N) ITEM 734013 - PERMANENT GRASS SEEDING - DRY GROUND
- (O) ITEM 701011 - PORTLAND CEMENT CONCRETE CURB, TYPE 2
- (P) ITEM 701014 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-6
- (Q) ITEM 713002 - GEOTEXTILE, SEPARATION
- (R) 1½" STONE DUST, SEE NOTE 1
- (S) ITEM 302513 - CRUSHED P.C. CONCRETE BASE COURSE

NOTE:
1. STONE DUST SHALL NOT BE MEASURED SEPARATELY AND SHALL BE CONSIDERED INCIDENTAL TO AND WILL BE INCLUDED IN THE COST OF 302007 GRADED AGGREGATE BASE COURSE, TYPE B.

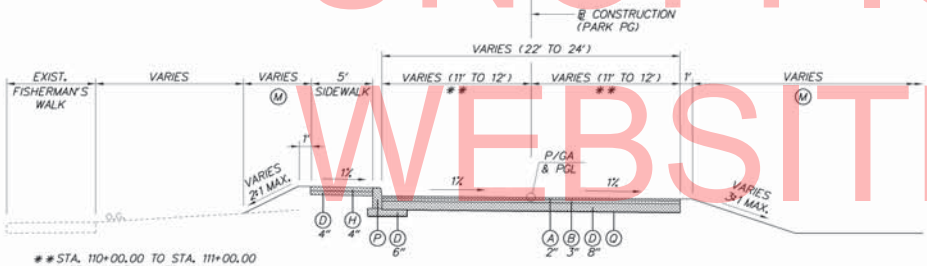


NORTH PARK – PARK PG
(STA. 115+20.97 TO 117+09)

(P) STA. 115+20.97 TO STA. 115+39.43
WIDTH VARIES 0' TO 14.5'
STA. 115+39.43 TO 117+09
WIDTH = 14.5'

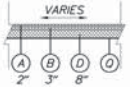


TEMPORARY PATH PAVEMENT SECTION

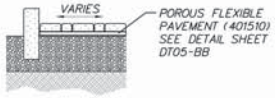


** STA. 110+00.00 TO STA. 111+00.00
WIDTH VARIES: 11' TO 12'
STA. 111+00.00 TO STA. 117+09+00
WICTH= 12

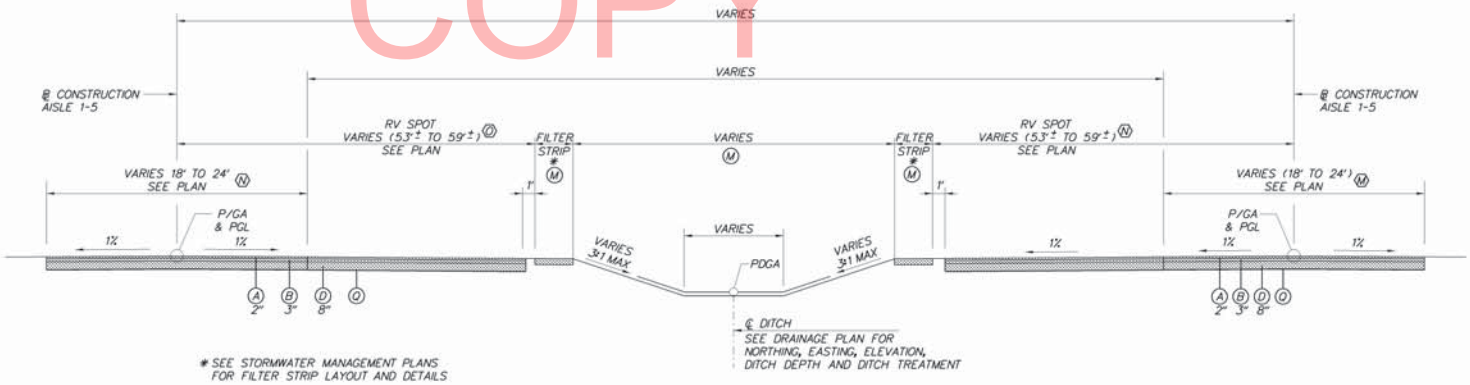
NORTH PARK – PARK PG
STA. 110+00.00 TO 117+09



TYPICAL PARKING LOT PAVEMENT SECTION
(EXCLUDES CENTER FOR INLAND BAYS LOT)



CENTER FOR INLAND BAYS PARKING LOT
PAVEMENT SECTION



* SEE STORMWATER MANAGEMENT PLANS FOR FILTER STRIP LAYOUT AND DETAILS

(N) AISLE WIDTH
AISLE 1, AISLE 2, AISLE 4, AND AISLE 5
WIDTH = 18'
AISLE 3
WIDTH = 24'

(O) RV SPOT HANDICAP CAMPSITES
AISLE 1, AISLE 2, AISLE 4, AND AISLE 5
WIDTH = 56'
AISLE 3
WIDTH = 59'

TYPICAL SECTION THROUGH NORTH RV CAMPGROUND

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	TYPICAL SECTIONS (BASE BID)	TS03-BB
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 9
					CHECKED BY: RK&K		TOTAL SHTS. 282

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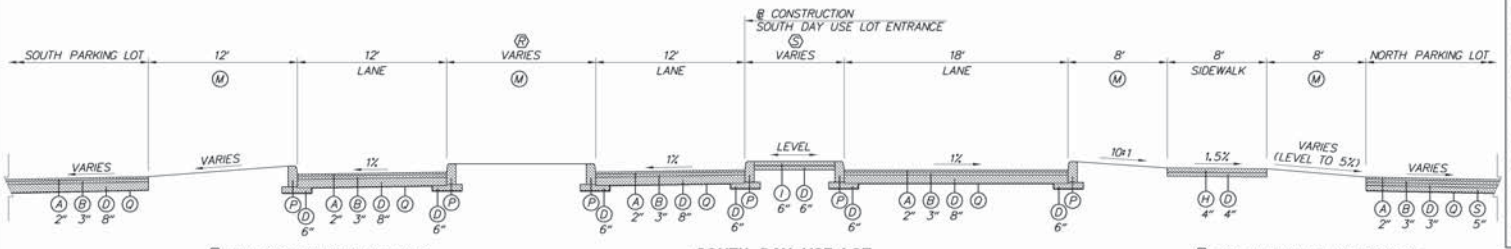
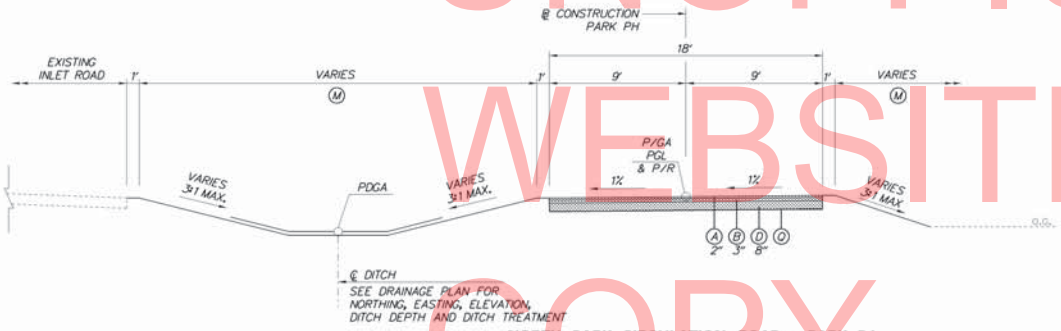


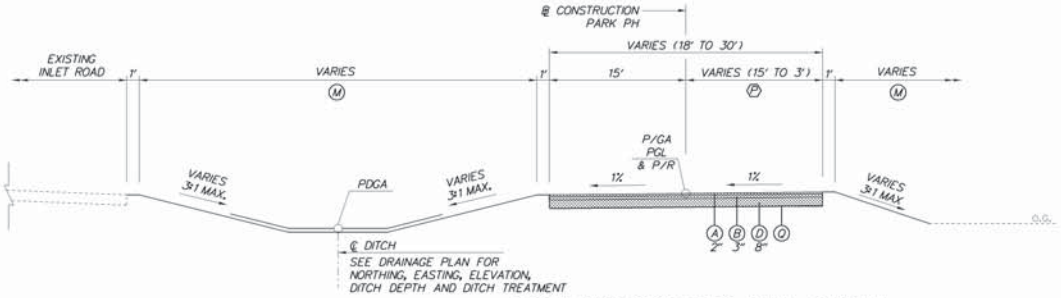
(R) STA. 99+80.00 TO STA 100+64.45
WIDTH= 12'
STA 100+64.45 TO STA. 101+22.88
WIDTH VARIES 12' TO 6'

SOUTH DAY USE LOT
STA. 99+80.00 TO STA. 101+22.88

(S) STA. 99+80.00 TO STA 100+64.45
WIDTH= 8'
STA 100+64.45 TO STA. 101+22.88
WIDTH VARIES 8' TO 14'



NORTH PARK CIRCULATION ROAD – PARK PJ
STA. 123+97.00 TO STA. 124+90.00



NORTH PARK CIRCULATION ROAD – PARK PH
STA. 120+44.00 TO STA. 123+88.00

(P) STA. 120+44.00 TO STA. 122+79.00
WIDTH = 15'
STA. 122+79.00 TO STA. 123+88.00
WIDTH VARIES 15' TO 3'

LEGEND

- (A) ITEM 401804 - WMA, TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
- (B) ITEM 401813 - WMA, TYPE B, 160 GYRATIONS, PG 70-22
- (C) ITEM 701026 - P.C.C. MONOLITHIC MEDIAN
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 705001 - P.C.C. SIDEWALK, 4"
- (I) ITEM 705002 - P.C.C. SIDEWALK, 6"
- (M) SEE PLANTING PLANS FOR VEGETATIVE TREATMENT
- (N) ITEM 734013 - PERMANENT GRASS SEEDING - DRY GROUND
- (O) ITEM 701011 - PORTLAND CEMENT CONCRETE CURB, TYPE 2
- (P) ITEM 701014 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-6
- (Q) ITEM 713002 - GEOTEXTILE, SEPARATION
- (R) 1½" STONE DUST, SEE NOTE 1
- (S) ITEM 302513 - CRUSHED P.C. CONCRETE BASE COURSE

NOTE:
1. STONE DUST SHALL NOT BE MEASURED SEPARATELY AND SHALL BE CONSIDERED INCIDENTAL TO AND WILL BE INCLUDED IN THE COST OF 302007 GRADED AGGREGATE BASE COURSE, TYPE B.

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	TYPICAL SECTIONS (BASE BID)	TS04-B8
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 10
					CHECKED BY: RK&K		TOTAL SHTS. 282

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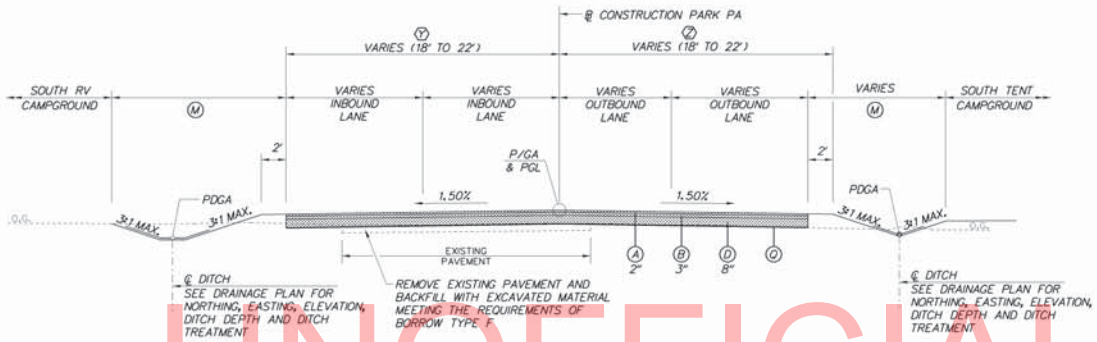
LEGEND

- (A) ITEM 401804 - WMA, TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
- (B) ITEM 401813 - WMA, TYPE B, 160 GYRATIONS, PG 70-22
- (C) ITEM 701026 - P.C.C. MONOLITHIC MEDIAN
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 705001 - P.C.C. SIDEWALK, 4"
- (I) ITEM 705002 - P.C.C. SIDEWALK, 6"
- (M) SEE PLANTING PLANS FOR VEGETATIVE TREATMENT
- (N) ITEM 734013 - PERMANENT GRASS SEEDING - DRY GROUND
- (O) ITEM 701011 - PORTLAND CEMENT CONCRETE CURB, TYPE 2
- (P) ITEM 701014 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-6
- (Q) ITEM 713002 - GEOTEXTILE, SEPARATION
- (R) 1½" STONE DUST, SEE NOTE 1
- (S) ITEM 302513 - CRUSHED P.C. CONCRETE BASE COURSE

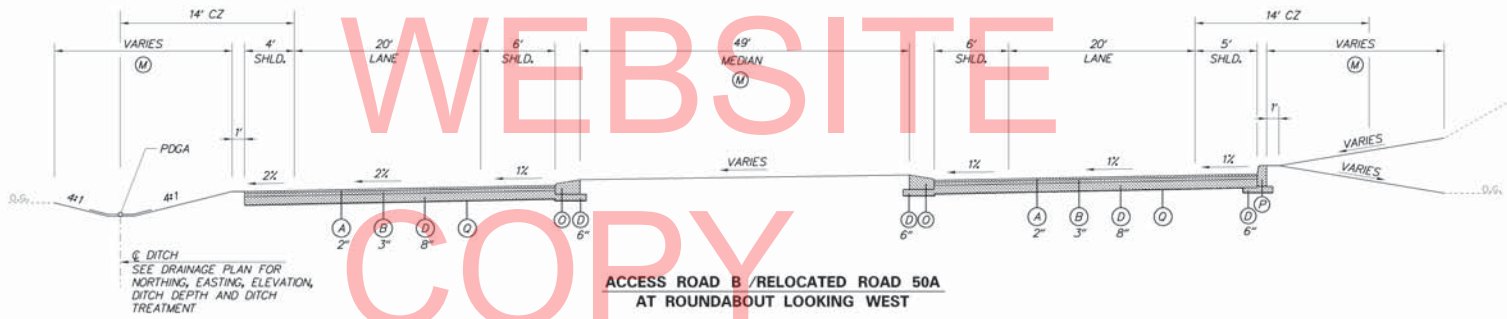
NOTE:
1. STONE DUST SHALL NOT BE MEASURED SEPARATELY AND SHALL BE CONSIDERED INCIDENTAL TO AND WILL BE INCLUDED IN THE COST OF 302007 GRADED AGGREGATE BASE COURSE, TYPE B.

(Y) STA. 30+28.28 TO STA. 34+31.06
WIDTH= 22'
STA. 34+31.06 TO STA. 35+20.09
WIDTH VARIES 22' TO 18'
STA. 35+20.09 TO STA. 36+07.99
WIDTH = 18'

(Z) STA. 30+28.28 TO STA. 34+47.08
WIDTH= 20'
STA. 34+47.08 TO STA. 34+98.77
WIDTH VARIES 20' TO 18'
STA. 34+98.77 TO STA. 36+07.99
WIDTH = 18'



PARK PA
(SOUTH CAMPGROUND ENTRANCE ROAD)
STA. 30+28.28 TO STA. 36+17.75



ACCESS ROAD B /RELOCATED ROAD 50A
AT ROUNDABOUT LOOKING WEST

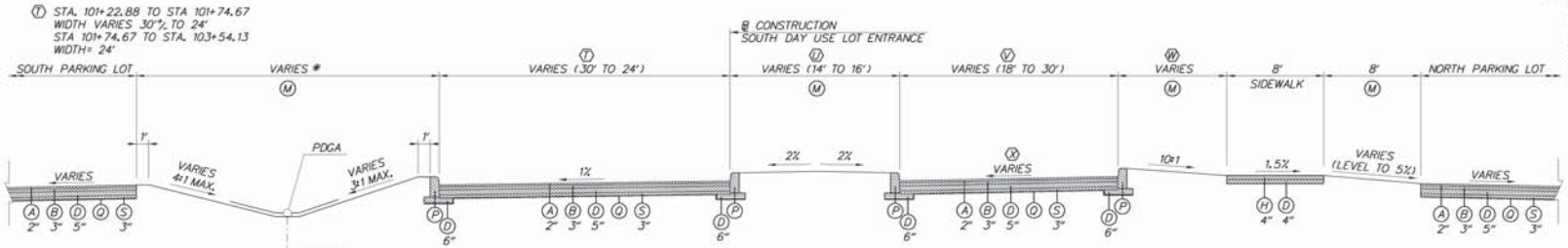
(U) STA. 101+22.88 TO STA. 101+48.68
WIDTH VARIES 14' TO 16'
STA. 101+48.68 TO STA. 101+70.24
WIDTH= 16'
STA. 101+70.24 TO STA. 102+53.64
WIDTH VARIES FROM 16' TO 14'
STA. 102+53.64 TO STA. 103+54.13
WIDTH= 14'

(W) STA. 101+22.86 TO STA. 102+15.64
WIDTH VARIES 9.3' TO 13.5'
STA. 102+39.08 TO STA. 102+79.58
WIDTH VARIES 7.5' TO 8.67'
STA. 102+79.58 TO STA. 103.54.07
WIDTH= 8.67'

(V) STA. 101+22.88 TO STA 102+08.57
WIDTH= 18'
STA 102+08.57 TO STA. 102+79.58
WIDTH VARIES 18' TO 30'
STA. 102+79.58 TO STA. 103+46.64
WIDTH= 30'

(X) STA. 101+22.88 TO STA. 102+00.00
CROSS SLOPE = 1.0% RT
STA. 102+00.00 TO STA. 102+25.00
1.0% RT TO LEVEL
STA. 102+25.00 TO STA. 102+50.00
LEVEL TO 1.0% LT
STA. 102+50.00 TO STA. 103+54.13
CROSS SLOPE = 1.0% LT

(T) STA. 101+22.88 TO STA 101+74.67
WIDTH VARIES 30' TO 24'
STA 101+74.67 TO STA. 103+54.13
WIDTH= 24'



DITCH LIMITS -
STA. 102+18.67 TO STA. 103+54.13

℄ DITCH
SEE DRAINAGE PLAN FOR NORTHING, EASTING, ELEVATION, DITCH DEPTH AND DITCH TREATMENT

SOUTH DAY USE LOT
STA. 101+22.88 TO STA. 103+54.13

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	TYPICAL SECTIONS (BASE BID)	TS05-BB
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 11
					CHECKED BY: RK&K		TOTAL SHTS. 282

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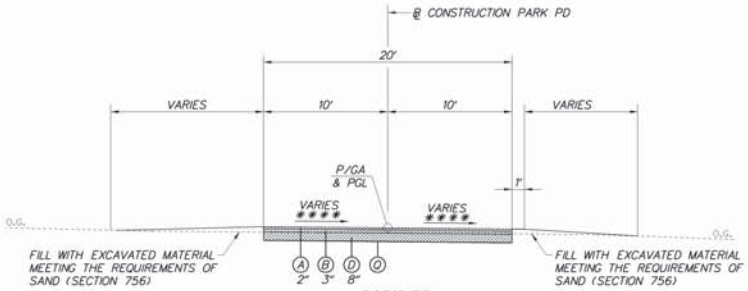
LEGEND

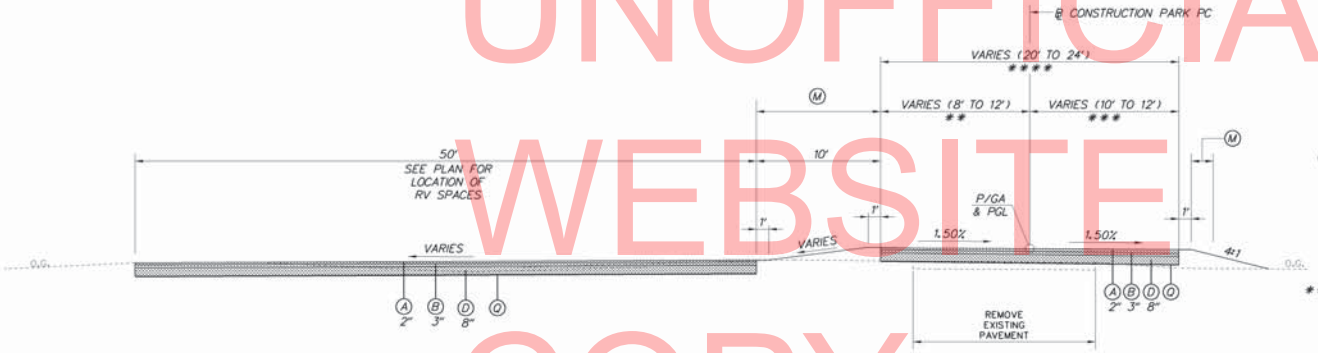
- (A) ITEM 401804 - WMA, TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
- (B) ITEM 401813 - WMA, TYPE B, 160 GYRATIONS, PG 70-22
- (C) ITEM 701026 - P.C.C. MONOLITHIC MEDIAN
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 705001 - P.C.C. SIDEWALK, 4"
- (I) ITEM 705002 - P.C.C. SIDEWALK, 6"
- (M) SEE PLANTING PLANS FOR VEGETATIVE TREATMENT
- (N) ITEM 734013 - PERMANENT GRASS SEEDING - DRY GROUND
- (O) ITEM 701011 - PORTLAND CEMENT CONCRETE CURB, TYPE 2
- (P) ITEM 701014 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-6
- (Q) ITEM 713002 - GEOTEXTILE, SEPARATION
- (R) 1½" STONE DUST, SEE NOTE 1
- (S) ITEM 302513 - CRUSHED P.C. CONCRETE BASE COURSE

NOTE:
1. STONE DUST SHALL NOT BE MEASURED SEPARATELY AND SHALL BE CONSIDERED INCIDENTAL TO AND WILL BE INCLUDED IN THE COST OF 302007 GRADED AGGREGATE BASE COURSE, TYPE B.

**** STA. 60+00.00 TO STA. 65+50.00
CROSS SLOPE = 1.0% RT
STA. 65+50.00 TO STA. 66+00.00
CROSS SLOPE VARIES 1% TO 0.3% RT
STA. 66+00.00 TO STA. 67+00.00
CROSS SLOPE = 0.3% RT
STA. 67+00.00 TO STA. 67+50.00
CROSS SLOPE VARIES 0.3% TO 1% RT
STA. 67+50.00 TO STA. 74+46.23
CROSS = 1.0% RT



PARK PD
(SOUTH TENT CAMPGROUND)

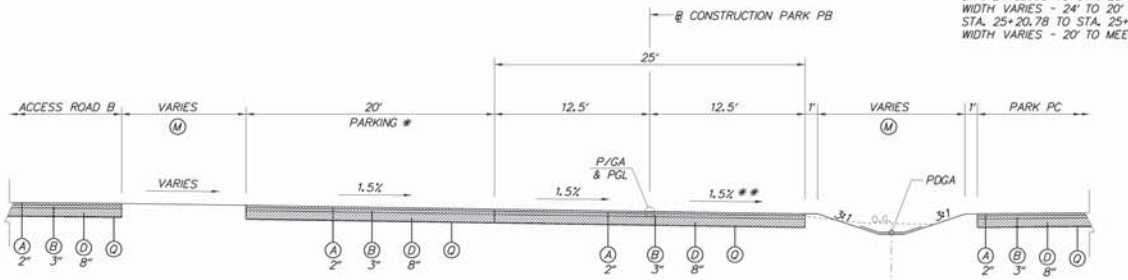


** STA. 20+10.77 TO STA. 20+71.94
WIDTH VARIES - EXIST. TO 11'
STA. 20+71.94 TO STA. 21+14.77
WIDTH VARIES - 11' TO 12'
STA. 21+14.77 TO STA. 24+05.65
WIDTH = 12'
STA. 24+05.65 TO STA. 25+20.78
WIDTH VARIES - 12' TO 8'
STA. 25+20.78 TO STA. 25+60.00
WIDTH VARIES - 8' TO MEET EXIST.

*** STA. 20+10.77 TO STA. 20+33.49
WIDTH VARIES - EXIST. TO 11'
STA. 20+33.49 TO STA. 20+88.11
WIDTH= 11'
STA. 20+88.11 TO STA. 21+03.29
WIDTH VARIES - 11' TO 12'
STA. 21+03.29 TO STA. 25+60.00
WIDTH= 12'

**** STA. 20+10.77 TO STA. 20+71.92
WIDTH VARIES - EXIST. TO 22'
STA. 20+71.92 TO STA. 21+14.77
WIDTH VARIES - 22' TO 24'
STA. 21+14.77 TO STA. 24+05.65
WIDTH = 24'
STA. 24+05.65 TO STA. 25+20.78
WIDTH VARIES - 24' TO 20'
STA. 25+20.78 TO STA. 25+60.00
WIDTH VARIES - 20' TO MEET EXIST.

PARK PC
(ACCESS ROAD TO SOUTH SANITARY CLEANOUT)
STA. 20+00 TO STA. 25+60



* STA. 10+70 TO STA. 12+04
** STA. 12+00 CROSS SLOPE = LEVEL

PARK PB
(SOUTH FISHERMANS LOT)
STA. 10+15 TO STA. 12+71.10

℄ DITCH
SEE DRAINAGE PLAN FOR NORTHING, EASTING, ELEVATION, DITCH DEPTH AND DITCH TREATMENT

UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	TYPICAL SECTIONS (BASE BID)	TS06-BB
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 12
					CHECKED BY: RK&K		TOTAL SHTS. 282

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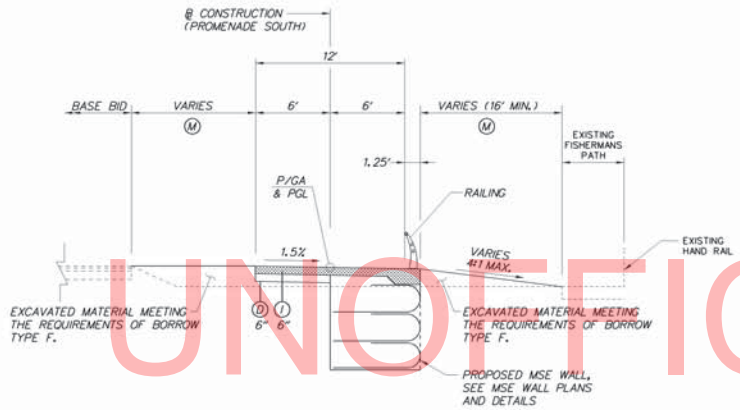
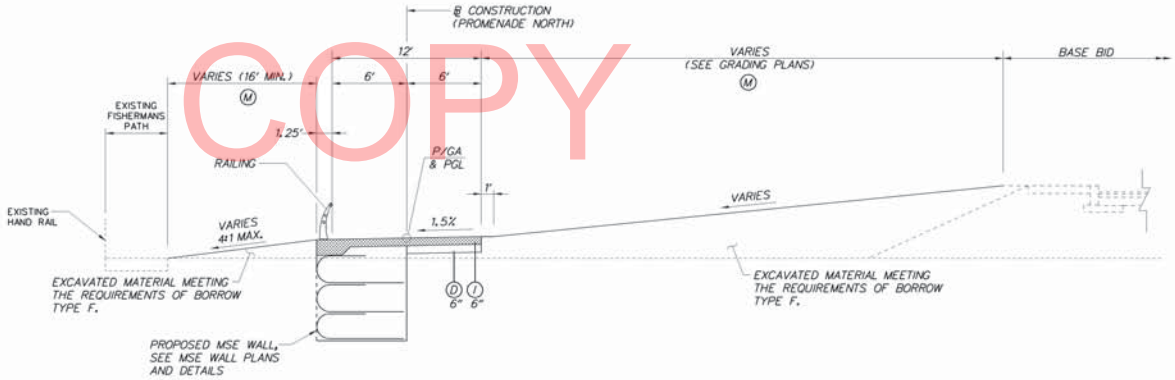
LEGEND

- (A) ITEM 401804 - WMA, TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
- (B) ITEM 401813 - WMA, TYPE B, 160 GYRATIONS, PG 70-22
- (C) ITEM 701026 - P.C.C. MONOLITHIC MEDIAN
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 705001 - P.C.C. SIDEWALK, 4"
- (I) ITEM 705002 - P.C.C. SIDEWALK, 6"
- (M) SEE PLANTING PLANS FOR VEGETATIVE TREATMENT
- (N) ITEM 734013 - PERMANENT GRASS SEEDING - DRY GROUND
- (O) ITEM 701011 - PORTLAND CEMENT CONCRETE CURB, TYPE 2
- (P) ITEM 701014 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-6
- (Q) ITEM 713002 - GEOTEXTILE, SEPARATION
- (R) 1½" STONE DUST, SEE NOTE 1
- (S) ITEM 302513 - CRUSHED P.C. CONCRETE BASE COURSE

NOTE:
1. STONE DUST SHALL NOT BE MEASURED SEPARATELY AND SHALL BE CONSIDERED INCIDENTAL TO AND WILL BE INCLUDED IN THE COST OF 302007 GRADED AGGREGATE BASE COURSE, TYPE B.



TYPICAL SECTION – PROMENADE (SOUTH)
(ADD ALTERNATE 2)



TYPICAL SECTION – PROMENADE (NORTH)
(ADD ALTERNATE 1)

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303 / COUNTY SUSSEX	BRIDGE NO. X / DESIGNED BY: RK&K / CHECKED BY: RK&K	TYPICAL SECTIONS (ADD ALTERNATES)	TS07-AA / SHEET NO. 13 / TOTAL SHTS. 282

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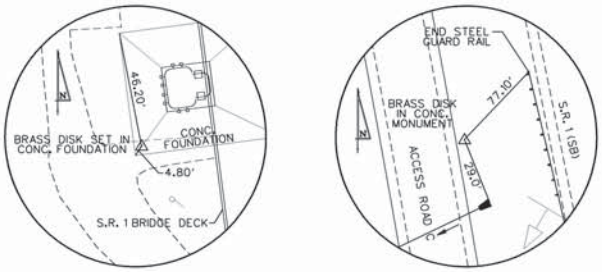

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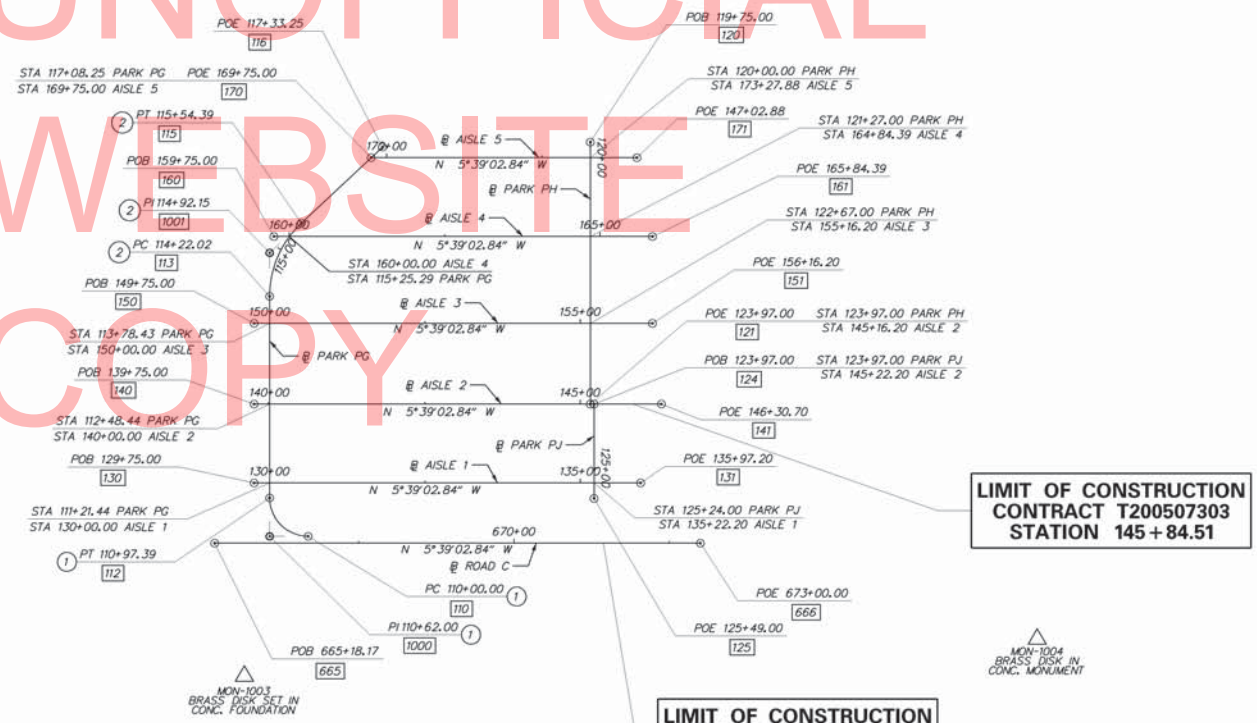
E 256908.7928
ELEV. 13.43

TRAVERSE POINT MON-1004
N 223351.0161
E 256723.8610
ELEV. 4.58



DATUMS

HORIZONTAL - PROJECT BASED ON THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83)

VERTICAL - PLAN ELEVATIONS ARE BASED ON N.G.S. SURVEY DATUM (NAVD 88)

INDEX

STATION XXXX — CURVE IDENTIFICATION NO. — POINT NO.

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 100 200 300 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	NORTH RV LOT HORIZONTAL AND VERTICAL CONTROL (BASE BID)	HV01
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 14
					CHECKED BY: RK&K		TOTAL SHTS. 282

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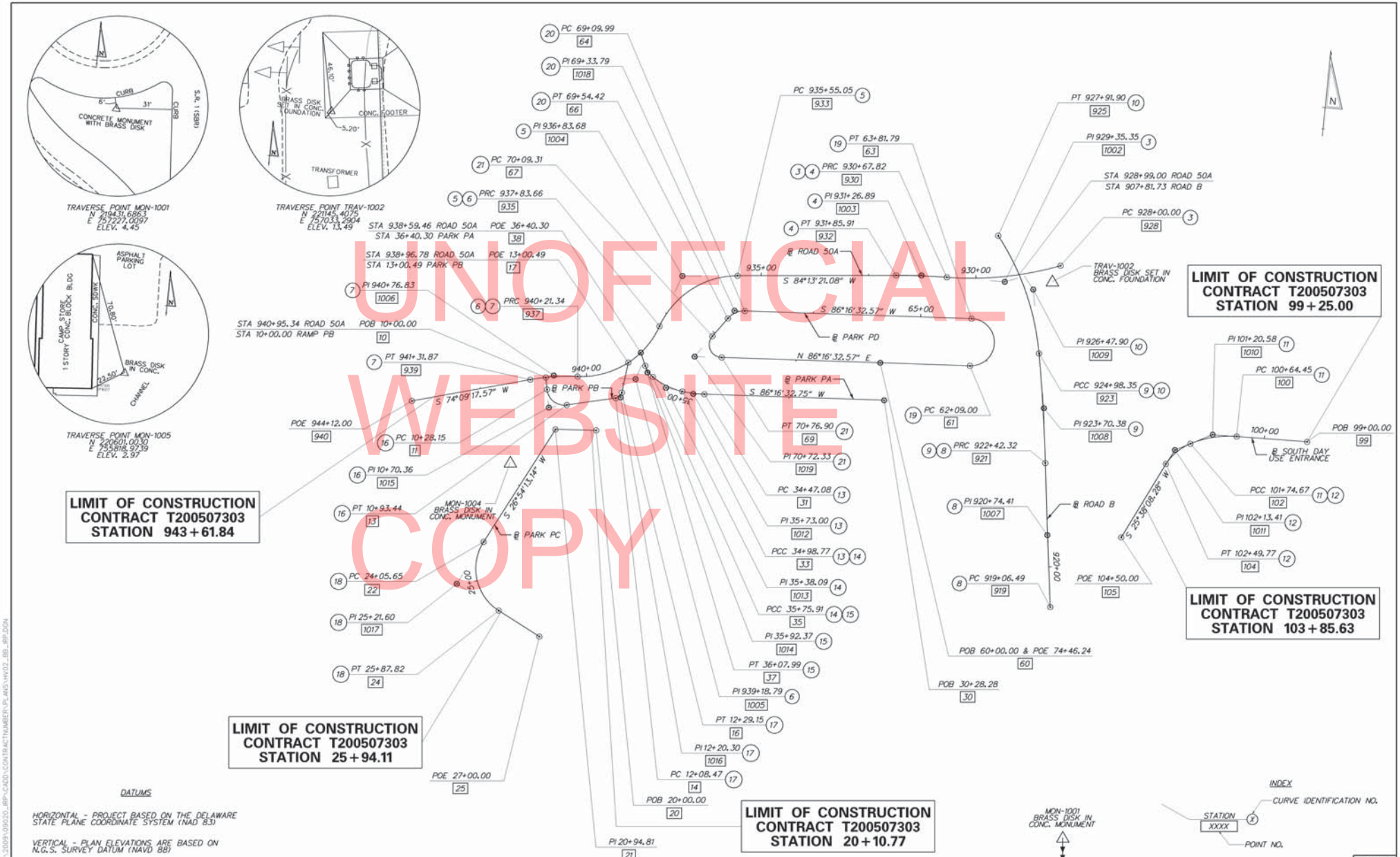

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DATUMS

HORIZONTAL - PROJECT BASED ON THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83)

VERTICAL - PLAN ELEVATIONS ARE BASED ON N.G.S. SURVEY DATUM (NAVD 88)

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 100 200 300 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303 / COUNTY SUSSEX	BRIDGE NO. X / DESIGNED BY: RKMK / CHECKED BY: RKMK	SOUTH SIDE OF INLET HORIZONTAL AND VERTICAL CONTROL (BASE BID)	HV-02 / SHEET NO. 15 / TOTAL SHTS. 267

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PARK PG

CIRCULAR CURVE NO. 1

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (110)	110+00.00	222167.5124	756676.9518
PI (1000)	110+62.00	222105.8137	756683.0566
CC (111)		222161.4076	756615.2531
PT (112)	110+97.39	222099.7089	756621.3579

RADIUS: 62.0000
DELTA: 90°00'00.0022" RIGHT
DEGREE OF CURVATURE (ARC): 92°24'45.1714"
LENGTH: 97.3894
TANGENT: 62.0000
CHORD: 87.6812
MIDDLE ORDINATE: 18.1594
EXTERNAL: 25.6812
TANGENT DIRECTION: S 05°39'02.8449" E
RADIAL DIRECTION: S 84°20'57.1551" W
CHORD DIRECTION: S 39°20'57.1561" W
RADIAL DIRECTION: N 05°39'02.8428" W
TANGENT DIRECTION: S 84°20'57.1572" W

CIRCULAR CURVE NO. 2

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (113)	114+22.02	222067.7444	756298.3077
PI (1001)	114+92.15	222060.8389	756228.5174
CC (114)		222228.9572	756282.3564
PT (115)	115+54.39	222107.0019	756175.7219

RADIUS: 162.0000
DELTA: 46°48'58.9687" RIGHT
DEGREE OF CURVATURE (ARC): 35°22'03.9545"
LENGTH: 132.3702
TANGENT: 70.1312
CHORD: 128.7184
MIDDLE ORDINATE: 13.3329
EXTERNAL: 14.5287
TANGENT DIRECTION: S 84°20'57.1572" W
RADIAL DIRECTION: N 05°39'02.8428" W
CHORD DIRECTION: N 72°14'33.3584" W
RADIAL DIRECTION: N 41°09'56.1260" E
TANGENT DIRECTION: N 48°50'03.8740" W

ROAD 50A

CIRCULAR CURVE NO. 3

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (928)	928+00.00	221183.9656	757048.9219
PI (1002)	929+35.35	221133.8596	756923.1849
CC (929)		221880.6832	756771.2809
PRC (930)	930+67.82	221130.8666	756787.8652

RADIUS: 750.0000
DELTA: 20°27'36.6012" RIGHT
DEGREE OF CURVATURE (ARC): 07°38'21.9742"
LENGTH: 267.8230
TANGENT: 135.3529
CHORD: 266.4022
MIDDLE ORDINATE: 11.9231
EXTERNAL: 12.1157
TANGENT DIRECTION: S 68°16'22.0299" W
RADIAL DIRECTION: N 21°43'37.9701" W
CHORD DIRECTION: S 78°30'10.3305" W
RADIAL DIRECTION: N 01°16'01.3689" W
TANGENT DIRECTION: S 88°43'58.6311" W

ROAD 50A

CIRCULAR CURVE NO. 4

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PRC (930)	930+67.82	221130.8666	756787.8652
PI (1003)	931+26.89	221129.5604	756728.8077
CC (931)		219631.2334	756821.0337
PT (932)	931+85.91	221123.6139	756670.0359

RADIUS: 1500.0000
DELTA: 04°30'37.5481" LEFT
DEGREE OF CURVATURE (ARC): 03°49'10.9871"
LENGTH: 118.0828
TANGENT: 59.0719
CHORD: 118.0523
MIDDLE ORDINATE: 1.1618
EXTERNAL: 1.1627
TANGENT DIRECTION: S 88°43'58.6311" W
RADIAL DIRECTION: N 01°16'01.3689" W
CHORD DIRECTION: S 86°28'39.8571" W
RADIAL DIRECTION: N 05°46'38.9170" W
TANGENT DIRECTION: S 84°13'21.0830" W

CIRCULAR CURVE NO. 5

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (933)	935+55.05	221086.45.39	756302.7663
PI (1004)	936+83.68	221073.5057	756174.7934
CC (934)		220887.4698	756322.8993
PRC (935)	937+83.66	220951.6911	756133.4907

RADIUS: 200.0000
DELTA: 65°29'33.6667" LEFT
DEGREE OF CURVATURE (ARC): 28°38'52.4031"
LENGTH: 228.6126
TANGENT: 128.6263
CHORD: 216.3683
MIDDLE ORDINATE: 31.7853
EXTERNAL: 37.7913
TANGENT DIRECTION: S 84°13'21.0830" W
RADIAL DIRECTION: N 05°46'38.9170" W
CHORD DIRECTION: S 51°28'34.2497" W
RADIAL DIRECTION: N 71°16'12.5837" W
TANGENT DIRECTION: S 18°43'47.4163" W

CIRCULAR CURVE NO. 6

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PRC (935)	937+83.66	220951.6911	756133.4907
PI (1005)	939+18.79	220823.7154	756090.0991
CC (936)		221015.9123	755944.0821
PRC (937)	940+21.34	220816.2202	755955.1753

RADIUS: 200.0000
DELTA: 68°05'26.0039" RIGHT
DEGREE OF CURVATURE (ARC): 28°38'52.4031"
LENGTH: 237.6809
TANGENT: 135.1318
CHORD: 223.9392
MIDDLE ORDINATE: 34.2809
EXTERNAL: 41.3723
TANGENT DIRECTION: S 18°43'47.4163" W
RADIAL DIRECTION: N 71°16'12.5837" W
CHORD DIRECTION: S 52°46'30.4183" W
RADIAL DIRECTION: N 03°10'46.5797" W
TANGENT DIRECTION: S 86°49'13.4203" W

CIRCULAR CURVE NO. 7

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PRC (937)	940+21.34	220816.2202	755955.1753
PI (1006)	940+76.83	220813.1424	755899.7708
CC (938)		220316.9899	755982.9083
PT (939)	941+31.87	220797.9915	755846.3894

RADIUS: 500.0000
DELTA: 12°39'55.8540" LEFT
DEGREE OF CURVATURE (ARC): 11°27'32.9612"
LENGTH: 110.5275
TANGENT: 55.4899
CHORD: 110.3026
MIDDLE ORDINATE: 3.0510
EXTERNAL: 3.0697
TANGENT DIRECTION: S 86°49'13.4203" W
RADIAL DIRECTION: N 03°10'46.5797" W
CHORD DIRECTION: S 80°29'15.4933" W
RADIAL DIRECTION: N 15°50'42.4337" W
TANGENT DIRECTION: S 74°09'17.5663" W

ROAD B

CIRCULAR CURVE NO. 8

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (919)	919+06.49	220389.8513	757103.1897
PI (1007)	920+74.41	220556.1440	757079.8722
CC (920)		223875.7638	781963.5434
PRC (921)	922+42.32	220722.7339	757058.7813

RADIUS: 25103.5609
DELTA: 00°45'59.4005" RIGHT
DEGREE OF CURVATURE (ARC): 00°13'41.6556"
LENGTH: 335.8342
TANGENT: 167.9196
CHORD: 335.8317
MIDDLE ORDINATE: 0.5616
EXTERNAL: 0.5616
TANGENT DIRECTION: N 07°58'55.0512" W
RADIAL DIRECTION: N 82°01'04.9488" E
CHORD DIRECTION: N 07°35'55.3509" W
RADIAL DIRECTION: N 82°47'04.3493" E
TANGENT DIRECTION: N 07°12'55.6507" W

CIRCULAR CURVE NO. 9

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PRC (921)	922+42.32	220722.7339	757058.7813
PI (1008)	923+70.38	220849.7730	757042.6977
CC (922)		220198.9781	752921.8042
PRC (923)	924+98.35	220975.5859	757018.8495

RADIUS: 4170.0000
DELTA: 03°31'04.0630" LEFT
DEGREE OF CURVATURE (ARC): 01°22'26.3982"
LENGTH: 256.0259
TANGENT: 128.05.32
CHORD: 255.9857
MIDDLE ORDINATE: 1.9648
EXTERNAL: 1.9657
TANGENT DIRECTION: N 07°12'55.6507" W
RADIAL DIRECTION: N 82°47'04.3493" E
CHORD DIRECTION: N 08°58'27.6822" W
RADIAL DIRECTION: N 79°16'00.2863" E
TANGENT DIRECTION: N 10°43'59.7137" W

CIRCULAR CURVE NO. 10

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (923)	924+98.35	220975.5859	757018.8495
PI (1009)	926+47.90	221122.5242	756990.9969
CC (924)		220863.8438	756429.3466
PT (925)	927+91.49	221239.1993	756897.4366

RADIUS: 600.0000
DELTA: 27°59'32.7669" LEFT
DEGREE OF CURVATURE (ARC): 09°32'57.4677"
LENGTH: 293.1361
TANGENT: 149.5547
CHORD: 290.2294
MIDDLE ORDINATE: 17.8130
EXTERNAL: 18.3580
TANGENT DIRECTION: N 10°43'59.7137" W
RADIAL DIRECTION: N 79°16'00.2863" E
CHORD DIRECTION: N 24°43'46.0971" W
RADIAL DIRECTION: N 51°16'27.5194" E
TANGENT DIRECTION: N 38°43'32.4806" W

DATUMS

HORIZONTAL - PROJECT BASED ON THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83)

VERTICAL - PLAN ELEVATIONS ARE BASED ON N.G.S. SURVEY DATUM (NAVD 88)

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SOUTH DAY USE ENTRANCE

CIRCULAR CURVE NO. 11

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (100)	100+64.45	220828.1964	757496.0910
PI (1010)	101+20.58	220826.9756	757439.9824
CC (101)		220591.2525	757501.2466
PCC (102)	101+74.67	220800.7222	757390.3798

RADIUS: 237.0000
DELTA: 26°38'40.6120" LEFT
DEGREE OF CURVATURE (ARC): 24°10'31.5640"
LENGTH: 110.2136
TANGENT: 56.1219
CHORD: 109.2232
MIDDLE ORDINATE: 6.3779
EXTERNAL: 6.5542
TANGENT DIRECTION: S 88°45'12.6076" W
RADIAL DIRECTION: N 01°14'47.3924" W
CHORD DIRECTION: S 75°25'52.3016" W
RADIAL DIRECTION: N 27°53'28.0044" W
TANGENT DIRECTION: S 62°06'31.9956" W

CIRCULAR CURVE NO. 12

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (102)	102+74.67	220800.7222	757390.3798
PI (1011)	102+13.41	220782.5993	757356.1388
CC (103)		220691.1262	757448.3861
PT (104)	102+49.77	220748.2069	757338.3052

RADIUS: 124.0000
DELTA: 34°42'02.3070" LEFT
DEGREE OF CURVATURE (ARC): 46°12'22.5857"
LENGTH: 75.0994
TANGENT: 38.7412
CHORD: 73.9569
MIDDLE ORDINATE: 5.6421
EXTERNAL: 5.9110
TANGENT DIRECTION: S 62°06'31.9956" W
RADIAL DIRECTION: N 27°53'28.0044" W
CHORD DIRECTION: S 44°45'30.8421" W
RADIAL DIRECTION: N 62°35'30.3114" W
TANGENT DIRECTION: S 27°24'29.6886" W

PARK PA

CIRCULAR CURVE NO. 13

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (31)	34+47.08	220804.0965	756252.9501
PI (1012)	34+73.00	220802.4126	756227.0811
CC (32)		221081.5094	756234.8927
PCC (33)	34+98.77	220805.5408	756201.3469

RADIUS: 278.0000
DELTA: 10°39'17.7076" RIGHT
DEGREE OF CURVATURE (ARC): 20°36'35.9734"
LENGTH: 51.6978
TANGENT: 25.9237
CHORD: 51.6234
MIDDLE ORDINATE: 1.2009
EXTERNAL: 1.2061
TANGENT DIRECTION: S 86°16'32.7527" W
RADIAL DIRECTION: N 3°43'27.2473" W
CHORD DIRECTION: N 88°23'48.3936" W
RADIAL DIRECTION: N 6°55'50.4603" E
TANGENT DIRECTION: N 83°04'09.5396" W

CIRCULAR CURVE NO. 14

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (33)	34+98.77	220805.5408	756201.3469
PI (1013)	35+38.09	220810.2845	756162.3223
CC (34)		220966.3573	756220.8952
PCC (35)	35+75.91	220832.3872	756129.8124

RADIUS: 162.0003
DELTA: 27°16'48.2731" RIGHT
DEGREE OF CURVATURE (ARC): 35°22'03.7281"
LENGTH: 77.1327
TANGENT: 39.3118
CHORD: 76.4062
MIDDLE ORDINATE: 4.5690
EXTERNAL: 4.7016
TANGENT DIRECTION: N 83°04'09.5396" W
RADIAL DIRECTION: N 6°55'50.4603" E
CHORD DIRECTION: N 69°25'45.4032" W
RADIAL DIRECTION: N 34°12'38.7334" E
TANGENT DIRECTION: N 55°47'21.2667" W

PARK PA

CIRCULAR CURVE NO. 15

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (35)	35+75.91	220832.3873	756129.8122
PI (1014)	35+92.37	220841.6451	756116.1952
CC (36)		220880.3518	756162.4221
PT (37)	36+07.99	220856.6769	756109.4740

RADIUS: 58.0000
DELTA: 31°41'52.8816" RIGHT
DEGREE OF CURVATURE (ARC): 98°47'08.9763"
LENGTH: 32.0876
TANGENT: 16.4659
CHORD: 31.6800
MIDDLE ORDINATE: 2.2049
EXTERNAL: 2.2920
TANGENT DIRECTION: N 55°47'20.9334" W
RADIAL DIRECTION: N 34°12'39.0667" E
CHORD DIRECTION: N 39°56'24.4925" W
RADIAL DIRECTION: N 65°54'31.9483" E
TANGENT DIRECTION: N 24°05'28.0515" W

PARK PB

CIRCULAR CURVE NO. 16

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (11)	10+28.15	220779.0644	755887.3766
PI (1015)	10+70.36	220737.6720	755895.6346
CC (12)		220786.9882	755927.0939
PT (13)	10+93.44	220747.6319	755936.6507

RADIUS: 40.5000
DELTA: 92°21'58.3904" LEFT
DEGREE OF CURVATURE (ARC): 141°28'15.8179"
LENGTH: 65.2898
TANGENT: 42.2081
CHORD: 58.4460
MIDDLE ORDINATE: 12.4596
EXTERNAL: 17.9959
TANGENT DIRECTION: S 11°16'57.6624" E
RADIAL DIRECTION: S 78°43'02.3376" W
CHORD DIRECTION: S 57°27'56.8576" E
RADIAL DIRECTION: S 13°38'56.0527" E
TANGENT DIRECTION: N 76°21'03.9473" E

CIRCULAR CURVE NO. 17

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (14)	12+08.47	220774.7746	756048.4273
PI (1016)	12+20.30	220777.5671	756059.9275
CC (15)		220791.2945	756044.4158
PT (16)	12+29.15	220789.3215	756061.3009

RADIUS: 17.0000
DELTA: 69°41'11.5482" LEFT
DEGREE OF CURVATURE (ARC): 337°02'02.3897"
LENGTH: 20.6764
TANGENT: 11.8344
CHORD: 19.4253
MIDDLE ORDINATE: 3.0478
EXTERNAL: 3.7136
TANGENT DIRECTION: N 76°21'03.9473" E
RADIAL DIRECTION: S 13°38'56.0527" E
CHORD DIRECTION: N 41°30'28.1732" E
RADIAL DIRECTION: S 83°20'07.6009" E
TANGENT DIRECTION: N 06°39'52.3991" E

PARK PC

CIRCULAR CURVE NO. 18

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (22)	24+05.65	220411.1340	755775.3743
PI (1017)	25+21.60	220307.7328	755722.9076
CC (23)		220358.6450	755878.8195
PT (24)	25+87.82	220255.2222	755826.2865

RADIUS: 116.0000
DELTA: 89°58'32.3210" LEFT
DEGREE OF CURVATURE (ARC): 49°23'34.4881"
LENGTH: 182.1631
TANGENT: 115.9507
CHORD: 164.0139
MIDDLE ORDINATE: 33.9582
EXTERNAL: 48.0139
TANGENT DIRECTION: S 26°54'13.1393" W
RADIAL DIRECTION: N 63°05'46.8607" W
CHORD DIRECTION: S 18°05'03.0212" E
RADIAL DIRECTION: S 26°55'40.8183" W
TANGENT DIRECTION: S 63°04'19.1817" E

PARK PD

CIRCULAR CURVE NO. 19

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (61)	62+09.00	220930.9122	756861.7950
CC (62)		220985.7962	756858.2225
PT (63)	63+81.79	221040.6802	756854.6499

RADIUS: 55.0001
DELTA: 180°00'00.0000" LEFT
DEGREE OF CURVATURE (ARC): 104°10'26.0341"
LENGTH: 172.7880
TANGENT: -1.0000
CHORD: 110.0003
MIDDLE ORDINATE: -1.0000
EXTERNAL: -1.0000
TANGENT DIRECTION: N 86°16'32.5654" E
RADIAL DIRECTION: S 03°43'27.4346" E
CHORD DIRECTION: N 03°43'27.4346" W
RADIAL DIRECTION: N 03°43'32.4346" W
TANGENT DIRECTION: S 86°16'32.5654" W

CIRCULAR CURVE NO. 20

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (64)	69+09.99	221006.3709	756327.5670
PI (1018)	69+33.79	221004.8248	756303.8145
CC (65)		220956.4764	756330.8148
PT (66)	69+54.42	220985.4133	756290.0390

RADIUS: 50.0001
DELTA: 50°54'50.3484" LEFT
DEGREE OF CURVATURE (ARC): 114°35'28.6224"
LENGTH: 44.4309
TANGENT: 23.8028
CHORD: 42.9835
MIDDLE ORDINATE: 4.8546
EXTERNAL: 5.3766
TANGENT DIRECTION: S 86°16'32.5654" W
RADIAL DIRECTION: N 03°43'27.4346" W
CHORD DIRECTION: S 60°49'07.3912" W
RADIAL DIRECTION: N 54°38'17.7830" W
TANGENT DIRECTION: S 35°21'42.2170" W

CIRCULAR CURVE NO. 21

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (67)	70+09.31	220940.6453	756258.2690
PI (1019)	70+72.33	220889.2530	756221.7981
CC (68)		220923.2831	756282.7345
PT (69)	70+76.90	220893.3464	756284.6832

RADIUS: 30.0001
DELTA: 129°05'09.6516" LEFT
DEGREE OF CURVATURE (ARC): 190°59'07.5207"
LENGTH: 67.5895
TANGENT: 63.0182
CHORD: 54.1746
MIDDLE ORDINATE: 17.1050
EXTERNAL: 39.7946
TANGENT DIRECTION: S 35°21'42.2170" W
RADIAL DIRECTION: N 54°38'17.7830" W
CHORD DIRECTION: S 29°10'52.6088" E
RADIAL DIRECTION: S 03°43'27.4346" E
TANGENT DIRECTION: N 86°16'32.5654" E

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DATUMS

HORIZONTAL - PROJECT BASED ON THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83)

VERTICAL - PLAN ELEVATIONS ARE BASED ON N.G.S. SURVEY DATUM (NAVD 88)

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PARK PG

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
110	110+00.00	0	222167.5124	756676.9518
1000	110+62.00	-25.6312	222105.8137	756683.0566
112	110+97.39	0	222099.7089	756621.3579
113	114+22.02	0	222067.7444	756298.3077
1001	114+92.15	-14.5287	222060.8389	756228.5174
115	115+54.39	0	222107.0019	756175.7219
116	117+33.25	0	222224.7346	756041.0738

RAOD 50A

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
928	928+00.00	0	221183.9656	757048.9219
1002	929+35.35	-12.1157	221133.8596	756923.1849
930	930+67.82	0	221130.8666	756787.8652
1003	931+26.89	1.1627	221129.5604	756728.8077
932	931+85.91	0	221123.6139	756670.0359
933	935+55.05	0	221086.4539	756302.7663
1004	936+83.68	37.7913	221073.5057	756174.7934
935	937+83.66	0	220951.6911	756133.4907
1005	939+18.79	-41.3723	220823.7154	756090.0991
937	940+21.34	0	220816.2202	755955.1753
1006	940+76.83	3.0697	220813.1424	755899.7708
939	941+31.87	0	220797.9915	755846.3894
940	944+12.00	0	220721.5056	755576.9040

ROAD B

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
919	919+06.49	0	220389.8513	757103.1897
1007	920+74.41	-0.5616	220556.1440	757079.8722
921	922+42.32	0	220722.7339	757058.7813
1008	923+70.38	1.9657	220849.7730	757042.6977
923	924+98.35	0	220975.5859	757018.8495
1009	926+47.90	18.3580	221122.5242	756990.9969
925	927+91.49	0	221239.1993	756897.4366

SOUTH DAY USE ENTRANCE

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
99	99+00.00	0	220831.7739	757660.5066
100	100+64.45	0	220828.1964	757496.0910
1010	101+20.58	6.5542	220826.9756	757439.9824
102	101+74.67	0	220800.7222	757390.3798
1011	102+13.41	5.9110	220782.5993	757356.1388
104	102+49.77	0	220748.2069	757338.3052
105	104+50.00	0	220567.6814	757251.6738

PARK PA

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
30	30+28.28	0	220831.2992	756670.8623
31	34+47.08	0	220804.0965	756252.9501
1012	34+73.00	-1.2061	220802.4126	756227.0811
33	34+98.77	0	220805.5408	756201.3469
1013	35+38.09	-4.7016	220810.2845	756162.3223
35	35+75.91	0	220832.3872	756129.8124
1014	35+92.37	-2.2920	220841.6451	756116.1952
37	36+07.99	0	220856.6769	756109.4740
38	36+40.30	0	220886.1682	756096.2874

PARK PB

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
10	10+00.00	0	220806.6744	755881.8683
11	10+28.15	0	220779.0644	755887.3766
1015	10+70.36	17.9959	220737.6720	755895.6346
13	10+93.44	0	220747.6319	755936.6507
14	12+08.47	0	220774.7746	756048.4273
1016	12+20.30	3.7136	220777.5671	756059.9275
16	12+29.15	0	220789.3215	756061.3009
17	13+00.49	0	220860.1885	756069.5815

PARK PC

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
20	20+00.00	0	220695.6211	756010.5572
21	20+94.81	0	220688.3337	755916.0280
22	24+05.65	0	220411.1340	755775.3743
1017	25+21.60	48.0139	220307.7328	755722.9076
24	25+87.82	0	220255.2222	755826.2865
25	27+00.00	0	220204.4171	755926.3076

PARK PD

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
60	60+00.00	0	220917.3365	756653.2353
61	62+09.00	0	220930.9122	756861.7950
63	63+81.79	0	221040.6802	756854.6499
64	69+09.99	0	221006.3709	756327.5670
1018	69+33.79	5.3766	221004.8248	756303.8145
66	69+54.42	0	220985.4133	756290.0390
67	70+09.31	0	220940.6453	756258.2690
1019	70+72.33	39.7946	220889.2530	756221.7981
69	70+76.90	0	220893.3464	756284.6832
60	74+46.24	0	220917.3365	756653.2353

AISLE 1

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
130	129+75.00	0	222072.4627	756599.8903
131	135+97.20	0	222691.6469	756538.6250

AISLE 2

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
140	139+75.00	0	222059.9576	756473.5077
141	146+30.70	0	222712.4664	756408.9446

AISLE 3

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
150	149+75.00	0	222047.1572	756344.1397
151	156+16.20	0	222685.2441	756281.0036

AISLE 4

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
160	159+75.00	0	222065.0344	756201.6874
161	165+84.39	0	222671.4590	756141.6842

AISLE 5

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
170	169+75.00	0	222208.2787	756059.8941
171	174+02.88	0	222634.0755	756017.7632

ROAD C

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
665	665+18.17	0	222018.7885	756702.7211
666	673+00.00	0	222796.8148	756625.7386

PARK PH

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
120	119+75.00	0	222556.9783	756000.2696
121	123+97.00	0	222598.5305	756420.2181

PARK PJ

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
124	123+97.00	0	222604.5014	756419.6273
125	125+49.00	0	222619.4680	756570.8884

DATUMS

HORIZONTAL - PROJECT BASED ON THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83)

VERTICAL - PLAN ELEVATIONS ARE BASED ON N.G.S. SURVEY DATUM (NAVD 88)

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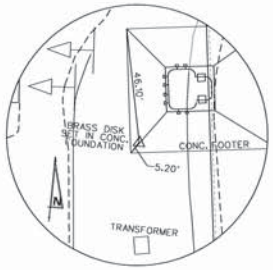

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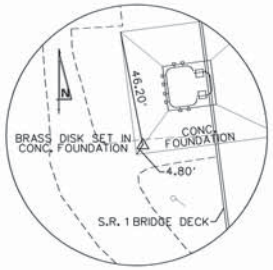
N 221145.4075
E 757033.2904
ELEV. 13.49



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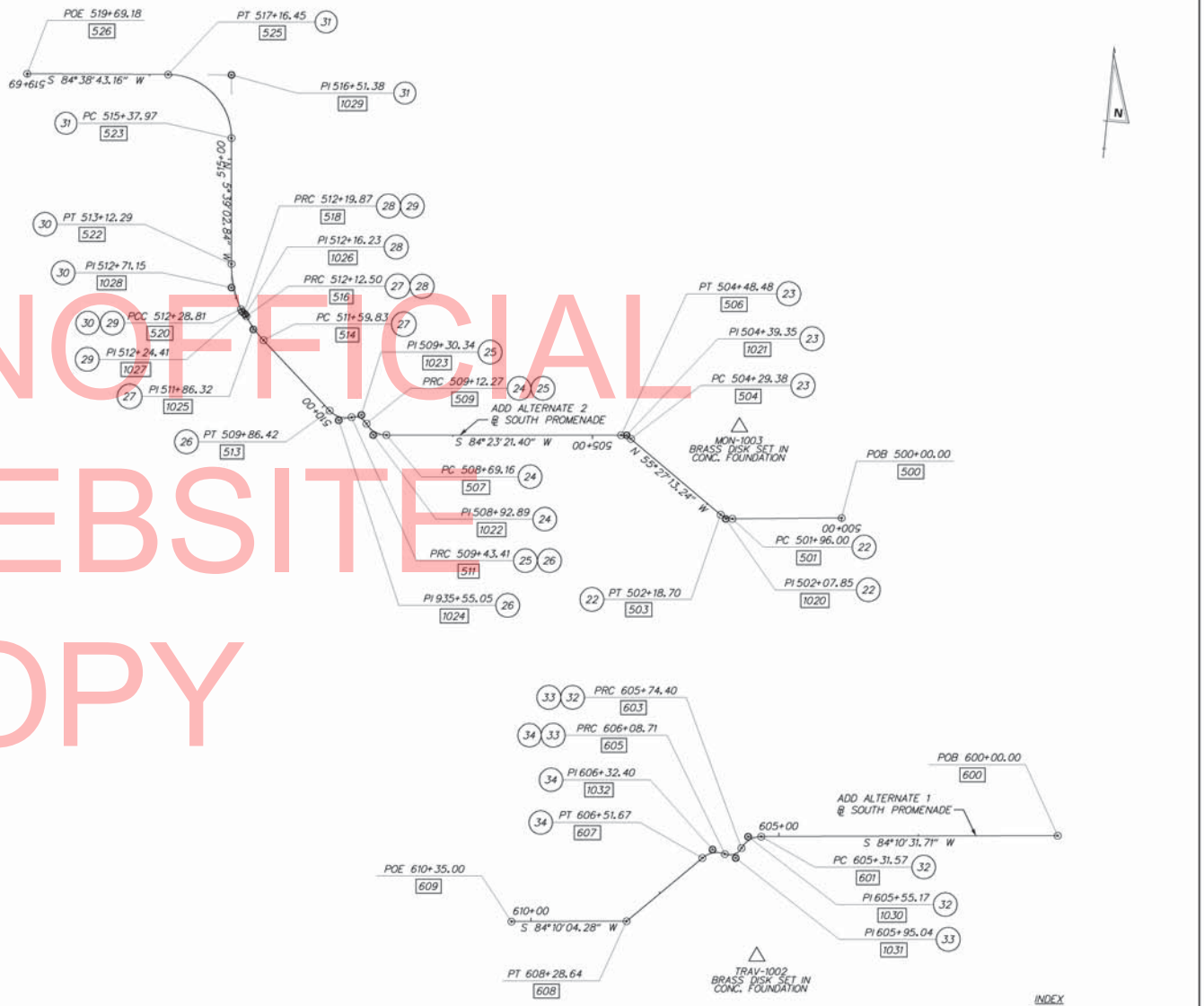
N 222086.9896
E 756908.7928
ELEV. 13.43



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DATUMS

HORIZONTAL - PROJECT BASED ON THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83)

VERTICAL - PLAN ELEVATIONS ARE BASED ON N.G.S. SURVEY DATUM (NAVD 88)

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 100 200 300 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	NORTH AND SOUTH PROMENADES HORIZONTAL AND VERTICAL CONTROL (ADD ALTERNATES)	HV06
				COUNTY SUSSEX	DESIGNED BY: RKMK		SHEET NO. 19
					CHECKED BY: RKMK		TOTAL SHTS. 267

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NORTH PROMENADE

CIRCULAR CURVE NO. 22

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (501)	501+96.00	221919.8535	756912.8986
PI (1020)	502+07.85	221918.5953	756901.1153
CC (502)		221951.6726	756909.5010
PT (503)	502+18.70	221925.3152	756891.3547

RADIUS: 32.0000
DELTA: 40°38'28.2153" RIGHT
DEGREE OF CURVATURE (ARC): 179°02'57.5195"
LENGTH: 22.6983
TANGENT: 11.8502
CHORD: 22.2254
MIDDLE ORDINATE: 1.9915
EXTERNAL: 2.1237
TANGENT DIRECTION: S 83°54'18.5494" W
RADIAL DIRECTION: N 06°05'41.4506" W
CHORD DIRECTION: N 75°46'27.3429" W
RADIAL DIRECTION: N 34°32'46.7648" E
TANGENT DIRECTION: N 55°27'13.2352" W

CIRCULAR CURVE NO. 23

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (504)	504+29.38	222044.7886	756717.8206
PI (1021)	504+39.35	222050.4369	756709.6164
CC (505)		222022.3437	756702.3678
PT (506)	504+48.48	222049.4631	756699.7036

RADIUS: 27.2500
DELTA: 04°09'25.3604" LEFT
DEGREE OF CURVATURE (ARC): 210°15'35.0688"
LENGTH: 19.0988
TANGENT: 9.9605
CHORD: 18.7103
MIDDLE ORDINATE: 1.6562
EXTERNAL: 1.7633
TANGENT DIRECTION: N 55°27'13.2352" W
RADIAL DIRECTION: N 34°32'46.7648" E
CHORD DIRECTION: N 75°31'55.9154" W
RADIAL DIRECTION: N 05°36'38.5956" W
TANGENT DIRECTION: S 84°23'21.4044" W

CIRCULAR CURVE NO. 24

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (507)	508+69.16	222008.3339	756281.0418
PI (1022)	508+92.89	222006.0141	756257.4284
CC (508)		222049.6350	756276.9843
PRC (509)	509+12.27	222025.1866	756243.4504

RADIUS: 41.5000
DELTA: 59°30'58.4493" RIGHT
DEGREE OF CURVATURE (ARC): 138°03'43.6295"
LENGTH: 43.1083
TANGENT: 23.7270
CHORD: 41.1962
MIDDLE ORDINATE: 5.4727
EXTERNAL: 6.3040
TANGENT DIRECTION: S 84°23'21.4044" W
RADIAL DIRECTION: N 05°36'38.5956" W
CHORD DIRECTION: N 65°51'09.3710" W
RADIAL DIRECTION: N 53°54'19.8537" E
TANGENT DIRECTION: N 36°05'40.1463" W

CIRCULAR CURVE NO. 25

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PRC (509)	509+12.27	222025.1866	756243.4504
PI (1023)	509+30.34	222039.7914	756232.8026
CC (510)		222010.7532	756223.6533
PRC (511)	509+43.41	222033.9283	756215.7058

RADIUS: 24.5000
DELTA: 72°50'02.4654" LEFT
DEGREE OF CURVATURE (ARC): 233°51'37.1684"
LENGTH: 31.1442
TANGENT: 18.0742
CHORD: 29.0892
MIDDLE ORDINATE: 4.7844
EXTERNAL: 5.9455
TANGENT DIRECTION: N 36°05'40.1463" W
RADIAL DIRECTION: N 53°54'19.8537" E
CHORD DIRECTION: N 72°30'41.3790" W
RADIAL DIRECTION: N 18°55'42.6117" W
TANGENT DIRECTION: S 71°04'17.3883" W

NORTH PROMENADE

CIRCULAR CURVE NO. 26

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PRC (511)	509+43.41	222033.9283	756215.7058
PI (1024)	509+67.13	222026.2351	756193.2720
CC (512)		222072.7112	756202.4058
PT (513)	509+86.42	222041.8460	756175.4181

RADIUS: 41.0000
DELTA: 60°05'38.7377" RIGHT
DEGREE OF CURVATURE (ARC): 139°44'44.8933"
LENGTH: 43.0024
TANGENT: 23.7163
CHORD: 41.0583
MIDDLE ORDINATE: 5.5098
EXTERNAL: 6.3652
TANGENT DIRECTION: S 71°04'17.3883" W
RADIAL DIRECTION: N 18°55'42.6117" W
CHORD DIRECTION: N 78°52'53.2429" W
RADIAL DIRECTION: N 41°09'56.1260" E
TANGENT DIRECTION: N 48°50'03.8740" W

CIRCULAR CURVE NO. 27

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (514)	511+59.83	222155.9964	756044.8670
PI (1025)	511+86.32	222173.4309	756024.9276
CC (515)		222306.3703	756176.3499
PRC (516)	512+12.50	222195.4594	756010.2210

RADIUS: 199.7500
DELTA: 15°06'23.6750" RIGHT
DEGREE OF CURVATURE (ARC): 28°41'01.4800"
LENGTH: 52.6660
TANGENT: 26.4866
CHORD: 52.5136
MIDDLE ORDINATE: 1.7332
EXTERNAL: 1.7484
TANGENT DIRECTION: N 48°50'03.8740" W
RADIAL DIRECTION: N 41°09'56.1260" E
CHORD DIRECTION: N 41°16'52.0365" W
RADIAL DIRECTION: N 56°16'19.8010" E
TANGENT DIRECTION: N 33°43'40.1990" W

CIRCULAR CURVE NO. 28

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PRC (516)	512+12.50	222195.4594	756010.2210
PI (1026)	512+16.23	222198.5577	756008.1525
CC (517)		222184.3545	755993.5873
PRC (518)	512+19.87	222200.7034	756005.1073

RADIUS: 20.0000
DELTA: 21°06'08.4943" LEFT
DEGREE OF CURVATURE (ARC): 286°28'44.0312"
LENGTH: 7.3661
TANGENT: 3.7253
CHORD: 7.3246
MIDDLE ORDINATE: 0.3382
EXTERNAL: 0.3440
TANGENT DIRECTION: N 33°43'40.1990" W
RADIAL DIRECTION: N 56°16'19.8010" E
CHORD DIRECTION: N 44°16'44.4462" W
RADIAL DIRECTION: N 35°10'11.3067" E
TANGENT DIRECTION: N 54°49'48.6933" W

CIRCULAR CURVE NO. 29

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PRC (518)	512+19.87	222200.7034	756005.1073
PI (1027)	512+24.41	222203.3224	756001.3905
CC (519)		222217.0524	756016.6273
PCC (520)	512+28.81	222207.2909	755999.1713

RADIUS: 20.0000
DELTA: 25°36'57.5574" RIGHT
DEGREE OF CURVATURE (ARC): 286°28'44.0312"
LENGTH: 8.9417
TANGENT: 4.5468
CHORD: 8.8674
MIDDLE ORDINATE: 0.4976
EXTERNAL: 0.5103
TANGENT DIRECTION: N 54°49'48.6933" W
RADIAL DIRECTION: N 35°10'11.3067" E
CHORD DIRECTION: N 42°01'19.9146" W
RADIAL DIRECTION: N 60°47'08.8641" E
TANGENT DIRECTION: N 29°12'51.1359" W

NORTH PROMENADE

CIRCULAR CURVE NO. 30

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (520)	512+28.81	222207.2909	755999.1713
PI (1028)	512+71.15	222244.2464	755978.5055
CC (521)		222306.3703	756176.3499
PT (522)	513+12.29	222286.3819	755974.3364

RADIUS: 203.0000
DELTA: 23°33'48.2927" RIGHT
DEGREE OF CURVATURE (ARC): 28°13'28.2789"
LENGTH: 83.4856
TANGENT: 42.3413
CHORD: 82.8985
MIDDLE ORDINATE: 4.2767
EXTERNAL: 4.3687
TANGENT DIRECTION: N 29°12'51.1359" W
RADIAL DIRECTION: N 60°47'08.8641" E
CHORD DIRECTION: N 17°25'56.9896" W
RADIAL DIRECTION: N 84°20'57.1568" E
TANGENT DIRECTION: N 05°39'02.8432" W

CIRCULAR CURVE NO. 31

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (523)	515+37.97	222510.9613	755952.1152
PI (1029)	516+51.38	222623.8225	755940.9480
CC (524)		222499.7363	755838.6692
PT (525)	517+16.45	222613.2388	755828.0306

RADIUS: 114.0000
DELTA: 89°42'13.9966" LEFT
DEGREE OF CURVATURE (ARC): 50°15'34.0406"
LENGTH: 178.4816
TANGENT: 113.4124
CHORD: 160.8032
MIDDLE ORDINATE: 33.1818
EXTERNAL: 46.8054
TANGENT DIRECTION: N 05°39'02.8432" W
RADIAL DIRECTION: N 84°20'57.1568" E
CHORD DIRECTION: N 50°30'09.8415" W
RADIAL DIRECTION: N 05°21'16.8397" W
TANGENT DIRECTION: S 84°38'43.1603" W

SOUTH PROMENADE

CIRCULAR CURVE NO. 32

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (601)	605+31.57	221357.8429	757020.5604
PI (1030)	605+55.17	221355.4481	756667.0835
CC (602)		221317.0546	757024.7212
PRC (603)	605+74.40	221333.9447	756987.3618

RADIUS: 41.0000
DELTA: 59°50'51.9949" LEFT
DEGREE OF CURVATURE (ARC): 139°44'44.8933"
LENGTH: 42.8262
TANGENT: 23.5988
CHORD: 40.9056
MIDDLE ORDINATE: 5.4658
EXTERNAL: 6.3065
TANGENT DIRECTION: S 84°10'31.7109" W
RADIAL DIRECTION: N 05°49'28.2891" W
CHORD DIRECTION: S 54°15'05.7135" W
RADIAL DIRECTION: N 65°40'20.2840" W
TANGENT DIRECTION: S 24°19'39.7160" W

DATUMS

HORIZONTAL - PROJECT BASED ON THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83)

VERTICAL - PLAN ELEVATIONS ARE BASED ON N.G.S. SURVEY DATUM (NAVD 88)

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SOUTH PROMENADE

CIRCULAR CURVE NO. 33

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PRC (603)	605+74.40	221333.9447	756987.3618
PI (1031)	605+95.04	221315.1342	756978.8576
CC (604)		221344.0376	756965.0373
PRC (605)	606+08.71	221320.3247	756958.8772
RADIUS:	24.5000		
DELTA:	80°14'04.9274" RIGHT		
DEGREE OF CURVATURE (ARC):	233°51'37.1684"		
LENGTH:	34.3088		
TANGENT:	20.6436		
CHORD:	31.5734		
MIDDLE ORDINATE:	5.7642		
EXTERNAL:	7.5376		
TANGENT DIRECTION:	S 24°19'39.7160" W		
RADIAL DIRECTION:	N 65°40'20.2840" W		
CHORD DIRECTION:	S 64°26'42.1797" W		
RADIAL DIRECTION:	N 14°33'44.6434" E		
TANGENT DIRECTION:	N 75°26'15.3566" W		

CIRCULAR CURVE NO. 34

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PRC (605)	606+08.71	221320.3247	756958.8772
PI (1032)	606+32.40	221326.2817	756935.9463
CC (606)		221280.6419	756948.5684
PT (607)	606+51.67	221309.3889	756919.3347
RADIUS:	41.0000		
DELTA:	60°02'35.7051" LEFT		
DEGREE OF CURVATURE (ARC):	139°44'44.8933"		
LENGTH:	42.9660		
TANGENT:	23.6920		
CHORD:	41.0268		
MIDDLE ORDINATE:	5.5007		
EXTERNAL:	6.3530		
TANGENT DIRECTION:	N 75°26'15.3566" W		
RADIAL DIRECTION:	N 14°33'44.6434" E		
CHORD DIRECTION:	S 74°32'26.7909" W		
RADIAL DIRECTION:	N 45°28'51.0616" W		
TANGENT DIRECTION:	S 44°31'08.9384" W		

SOUTH PROMENADE

CONSTRUCTION ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
600	600+00.00	0	221411.7879	757549.3875
601	605+31.57	0	221357.8429	757020.5604
1030	605+55.17	6.3064	221355.4481	756997.0835
603	605+74.40	0	221333.9447	756987.3618
1031	605+95.04	-7.5376	221315.1342	756978.8576
605	606+08.71	0	221320.3247	756958.8772
1032	606+32.40	6.3530	221326.2817	756935.9463
607	606+51.67	0	221309.3889	756919.3347
608	608+28.64	0	221183.2050	756795.2511
609	610+35.00	0	221162.2363	756589.9638

NORTH PROMENADE

CONSTRUCTION ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
500	500+00.00	0	221940.6639	757107.7926
501	501+96.00	0	221919.8535	756912.8986
1020	502+07.85	-2.1237	221918.5953	756901.1153
503	502+18.70	0	221925.3152	756891.3547
504	504+29.38	0	222044.7886	756717.8206
1021	504+39.35	1.7633	222050.4369	756709.6164
506	504+48.48	0	222049.4631	756699.7036
507	508+69.16	0	222008.3339	756281.0418
1022	508+92.89	-6.3040	222006.0141	756257.4284
509	509+12.27	0	222025.1866	756243.4504
1023	509+30.34	5.9455	222039.7914	756232.8026
511	509+43.41	0	222033.9283	756215.7058
1024	509+67.13	-6.3652	222026.2351	756193.2720
513	509+86.42	0	222041.8460	756175.4181
514	511+59.83	0	222155.9964	756044.8670
1025	511+86.32	-1.7484	222173.4309	756024.9276
516	512+12.50	0	222195.4594	756010.2210
1026	512+16.23	0.3440	222198.5577	756008.1525
518	512+19.87	0	222200.7034	756005.1073
1027	512+24.41	-0.5103	222203.3224	756001.3905
520	512+28.81	0	222207.2909	755999.1713
1028	512+71.15	-4.3687	222244.2464	755978.5055
522	513+12.29	0	222286.3819	755974.3364
523	515+37.97	0	222510.9613	755952.1152
1029	516+51.38	46.8054	222923.8225	755940.9480
525	517+16.45	0	222613.2388	755828.0306
526	519+69.18	0	222589.6536	755576.4009

DATUMS

HORIZONTAL - PROJECT BASED ON THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83)

VERTICAL - PLAN ELEVATIONS ARE BASED ON N.G.S. SURVEY DATUM (NAVD 88)

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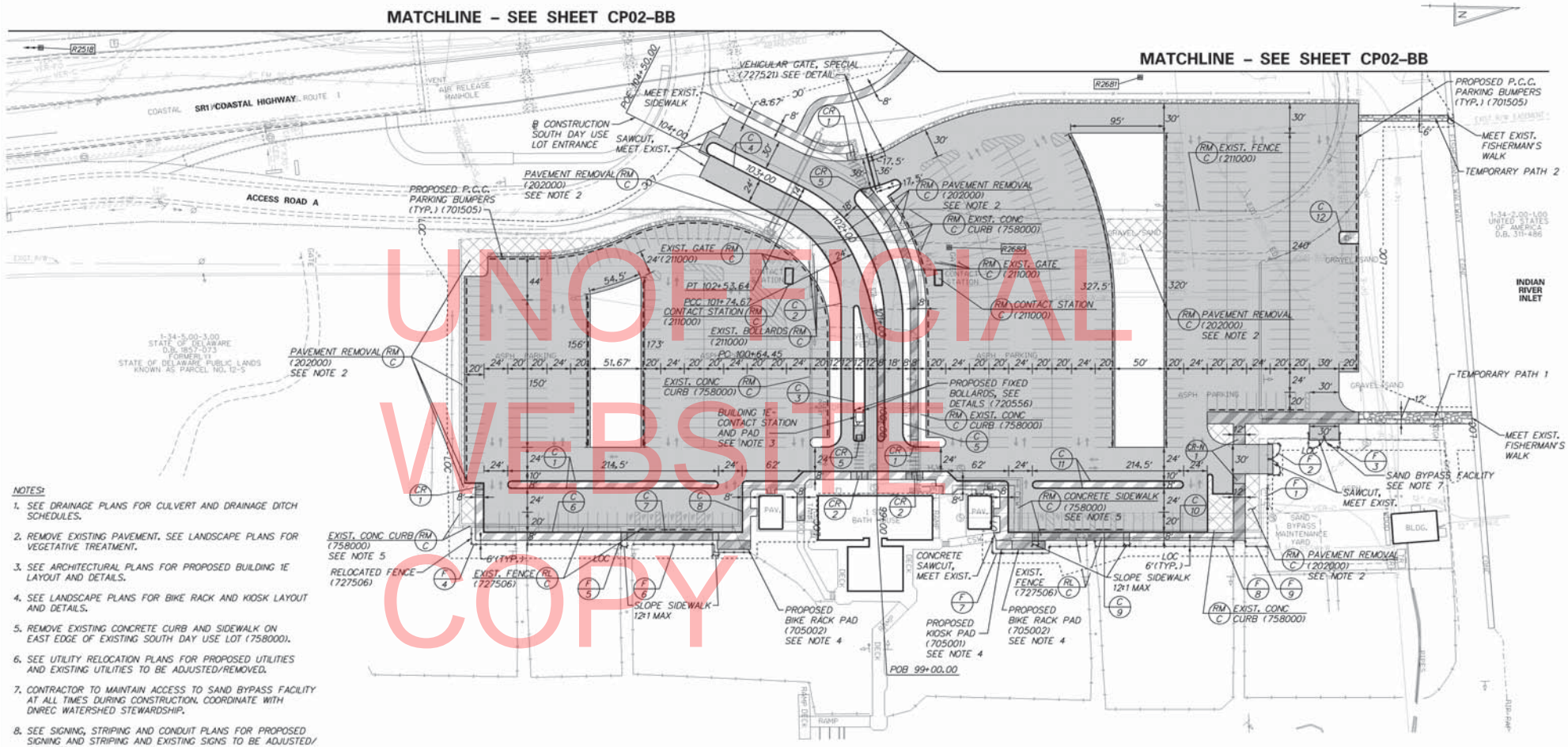

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NOTES:

1. SEE DRAINAGE PLANS FOR CULVERT AND DRAINAGE DITCH SCHEDULES.
2. REMOVE EXISTING PAVEMENT. SEE LANDSCAPE PLANS FOR VEGETATIVE TREATMENT.
3. SEE ARCHITECTURAL PLANS FOR PROPOSED BUILDING 1E LAYOUT AND DETAILS.
4. SEE LANDSCAPE PLANS FOR BIKE RACK AND KIOSK LAYOUT AND DETAILS.
5. REMOVE EXISTING CONCRETE CURB AND SIDEWALK ON EAST EDGE OF EXISTING SOUTH DAY USE LOT (758000).
6. SEE UTILITY RELOCATION PLANS FOR PROPOSED UTILITIES AND EXISTING UTILITIES TO BE ADJUSTED/REMOVED.
7. CONTRACTOR TO MAINTAIN ACCESS TO SAND BYPASS FACILITY AT ALL TIMES DURING CONSTRUCTION. COORDINATE WITH DNREC WATERSHED STEWARDSHIP.
8. SEE SIGNING, STRIPING AND CONDUIT PLANS FOR PROPOSED SIGNING AND STRIPING AND EXISTING SIGNS TO BE ADJUSTED/REMOVED.
9. THE CONTRACTOR SHALL PLACE THE EXISTING RECYCLED CRUSHED CONCRETE, CURRENTLY STOCKPILED UNDER THE BRIDGE ON THE SOUTH SIDE OF THE INLET, IN THE BASE OF THE SOUTHEAST DAY USE PARKING LOT PAVING- NORTH LOT ONLY. THE RECYCLED CRUSHED CONCRETE SHALL BE PLACED IN A CONTINUOUS LAYER TOPPED WITH A LAYER OF GRADED AGGREGATE BASE COURSE. THE COST OF THIS WORK SHALL BE PAID FOR UNDER ITEM 302513, CRUSHED P.C. CONCRETE BASE COURSE. THE CONTRACTOR SHALL NOT BE ALLOWED TO MIX DIFFERENT MATERIALS (OR SIMILAR MATERIALS FROM DIFFERENT SOURCES) TO MEET THE REQUIREMENTS OF 302513, CRUSHED P.C. CONCRETE BASE COURSE. ANY RELOCATION OF THIS MATERIAL SHALL BE INCIDENTAL TO 302513, CRUSHED P.C. CONCRETE BASE COURSE.
10. SEE GRADING PLANS FOR PROPOSED GRADES AND STAKEOUT.
11. SEE ELECTRICAL PLANS FOR PROPOSED ELECTRIC LAYOUT AND DETAILS.

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	P.C.C. CURB, TYPE 1-6 (701014)	438'
2	P.C.C. CURB, TYPE 1-6 (701014)	359'
3	P.C.C. CURB, TYPE 1-6 (701014)	291'
4	P.C.C. CURB, TYPE 1-6 (701014)	773'
5	P.C.C. CURB, TYPE 1-6 (701014)	382'
6	P.C.C. CURB, TYPE 1-6 (701014)	216'
7	P.C.C. CURB, TYPE 1-6, DEPR. (701014)	87'
8	P.C.C. CURB, TYPE 1-6 (701014)	440'
9	P.C.C. CURB, TYPE 1-6, DEPR. (701014)	87'
10	P.C.C. CURB, TYPE 1-6 (701014)	211'
11	P.C.C. CURB, TYPE 1-6 (701014)	317'
12	P.C.C. CURB, TYPE 1-6 (701014)	51'

FENCE SCHEDULE

NO.	QTY.	DESCRIPTION
1	25 LF	CHAIN LINK FENCE, 8 FT. HIGH (ITEM 727007)
2	2 EACH	VEHICULAR GATE, 15 FT. X 8 FT. HIGH CHAIN-LINK FENCE (ITEM 727012)
3	2 EACH	VEHICULAR GATE, 15 FT. X 8 FT. HIGH CHAIN-LINK FENCE (ITEM 727012)
4	63 LF	RELOCATED FENCE, (ITEM 727506)
5	95 LF	RELOCATED FENCE, (ITEM 727506)
6	127 LF	RELOCATED FENCE, (ITEM 727506)
7	122 LF	RELOCATED FENCE, (ITEM 727506)
8	153 LF	RELOCATED FENCE, (ITEM 727506)
9	29 LF	RELOCATED FENCE, (ITEM 727506)

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	NORTHING	EASTING
R2518	219356.0069	757195.0763
R2680	220899.2597	757381.5711
R2681	221089.6546	757204.1725

RIGHT-OF-WAY MONUMENT ITEM NO. 737015

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT T200507303 | COUNTY SUSSEX | BRIDGE NO. X | DESIGNED BY: RK&K | CHECKED BY: RK&K

CONSTRUCTION PLAN (BASE BID)

CP01-BB | SHEET NO. 22 | TOTAL SHTS. 282

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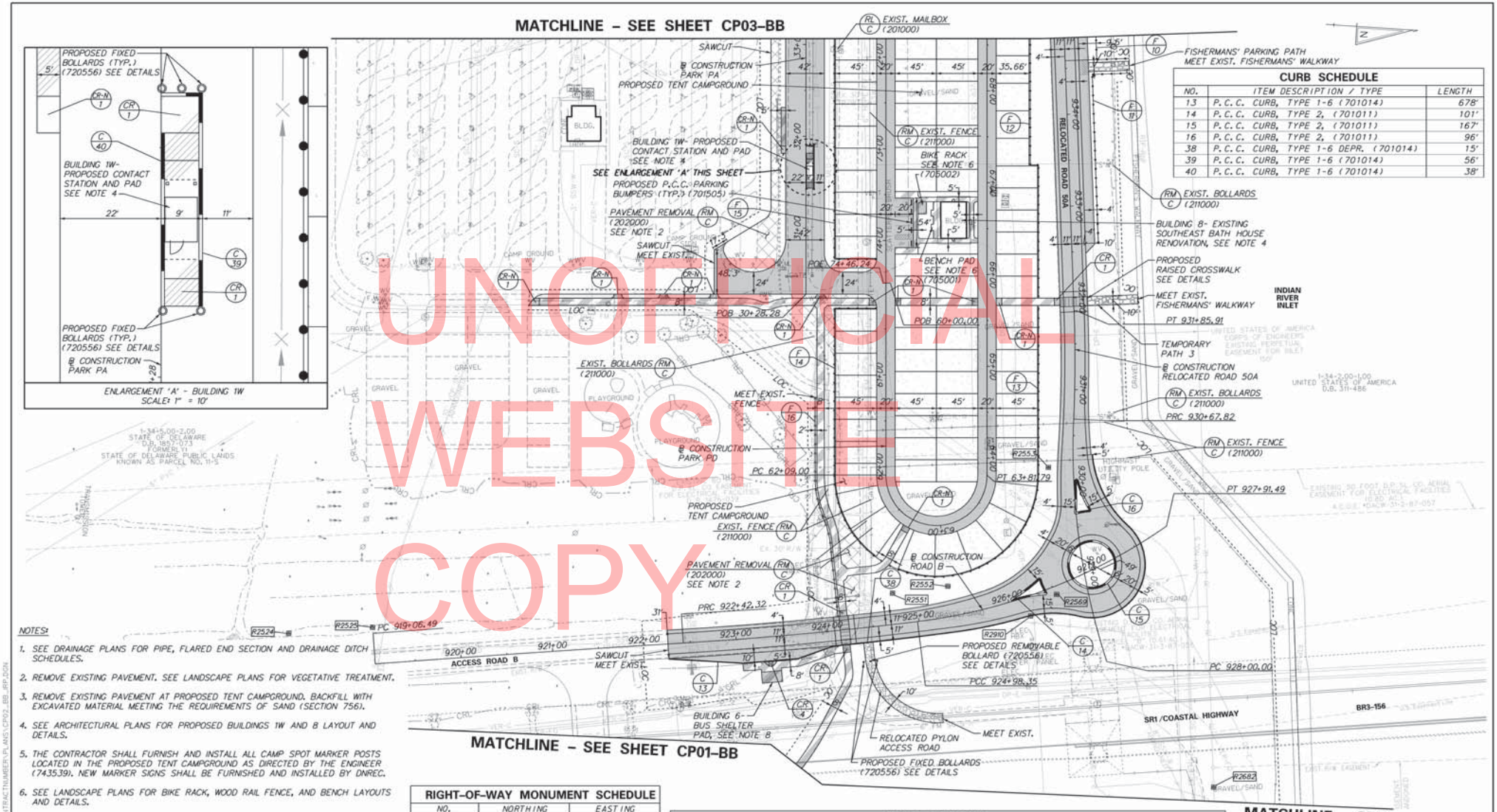

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NOTES:

1. SEE DRAINAGE PLANS FOR PIPE, FLARED END SECTION AND DRAINAGE DITCH SCHEDULES.
2. REMOVE EXISTING PAVEMENT. SEE LANDSCAPE PLANS FOR VEGETATIVE TREATMENT.
3. REMOVE EXISTING PAVEMENT AT PROPOSED TENT CAMPGROUND. BACKFILL WITH EXCAVATED MATERIAL MEETING THE REQUIREMENTS OF SAND (SECTION 756).
4. SEE ARCHITECTURAL PLANS FOR PROPOSED BUILDINGS 1W AND 8 LAYOUT AND DETAILS.
5. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CAMP SPOT MARKER POSTS LOCATED IN THE PROPOSED TENT CAMPGROUND AS DIRECTED BY THE ENGINEER (743539). NEW MARKER SIGNS SHALL BE FURNISHED AND INSTALLED BY DNREC.
6. SEE LANDSCAPE PLANS FOR BIKE RACK, WOOD RAIL FENCE, AND BENCH LAYOUTS AND DETAILS.
7. SEE UTILITY RELOCATION PLANS FOR PROPOSED UTILITIES AND EXISTING UTILITIES TO BE ADJUSTED/REMOVED.
8. BUILDING 6- BUS SHELTER STRUCTURE BY OTHERS.
9. SEE SIGNING, STRIPING AND CONDUIT PLANS FOR PROPOSED SIGNING AND STRIPING, AND EXISTING SIGNS TO BE ADJUSTED/REMOVED.
10. SEE GRADING PLANS FOR PROPOSED GRADES AND STAKEOUT.
11. SEE ELECTRICAL PLANS FOR PROPOSED ELECTRIC LAYOUT AND DETAILS.

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
13	P.C.C. CURB, TYPE 1-6 (701014)	678'
14	P.C.C. CURB, TYPE 2, (701011)	101'
15	P.C.C. CURB, TYPE 2, (701011)	167'
16	P.C.C. CURB, TYPE 2, (701011)	96'
38	P.C.C. CURB, TYPE 1-6 DEPR. (701014)	15'
39	P.C.C. CURB, TYPE 1-6 (701014)	56'
40	P.C.C. CURB, TYPE 1-6 (701014)	38'

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	NORTHING	EASTING
R2524	220293.6921	757076.2822
R2525	220384.2956	757063.5774
R2551	220946.4861	756989.6926
R2552	221006.0699	756978.2913
R2553	221106.8424	756842.0297
R2569	221124.7495	756979.5116
R2682	221308.8779	757177.9206
R2910	221098.0407	757004.7608

RIGHT-OF-WAY MONUMENT ITEM NO. 737015

FENCE SCHEDULE

NO.	QTY.	DESCRIPTION	NOTES
10	63 LF	WOOD RAIL FENCE, (ITEM 727510)	STA. 934+58, 70' RT. TO STA. 934+85, 34.5' RT. (+/-)
11	225 LF	WOOD RAIL FENCE, (ITEM 727510)	STA. 932+58, 29' RT. TO STA. 934+42, 70' RT. (+/-)
12	507 LF	WOOD RAIL FENCE, (ITEM 727510)	STA. 65+75, 56' RT. TO STA. 70+07, 90' RT. (+/-)
13	411 LF	WOOD RAIL FENCE, (ITEM 727510)	STA. 62+69, 56' RT. TO STA. 65+65, 56' RT. (+/-)
14	339 LF	WOOD RAIL FENCE, (ITEM 727510)	STA. 60+27, 56' RT. TO STA. 62+64, 10' RT. (+/-)
15	575 LF	WOOD RAIL FENCE, (ITEM 727510)	STA. 70+26, 10' RT. TO STA. 74+20, 10' RT. (+/-)
16	242 LF	WOOD RAIL FENCE, (ITEM 727510)	2' LT. OF PROP. SOUTHERN EDGE OF CONC. SIDEWALK

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	BRIDGE NO.	X
T200507303	DESIGNED BY: RK&K	
COUNTY: SUSSEX	CHECKED BY: RK&K	

CONSTRUCTION PLAN (BASE BID)

CP02-BB	
SHEET NO.	23
TOTAL SHTS.	282

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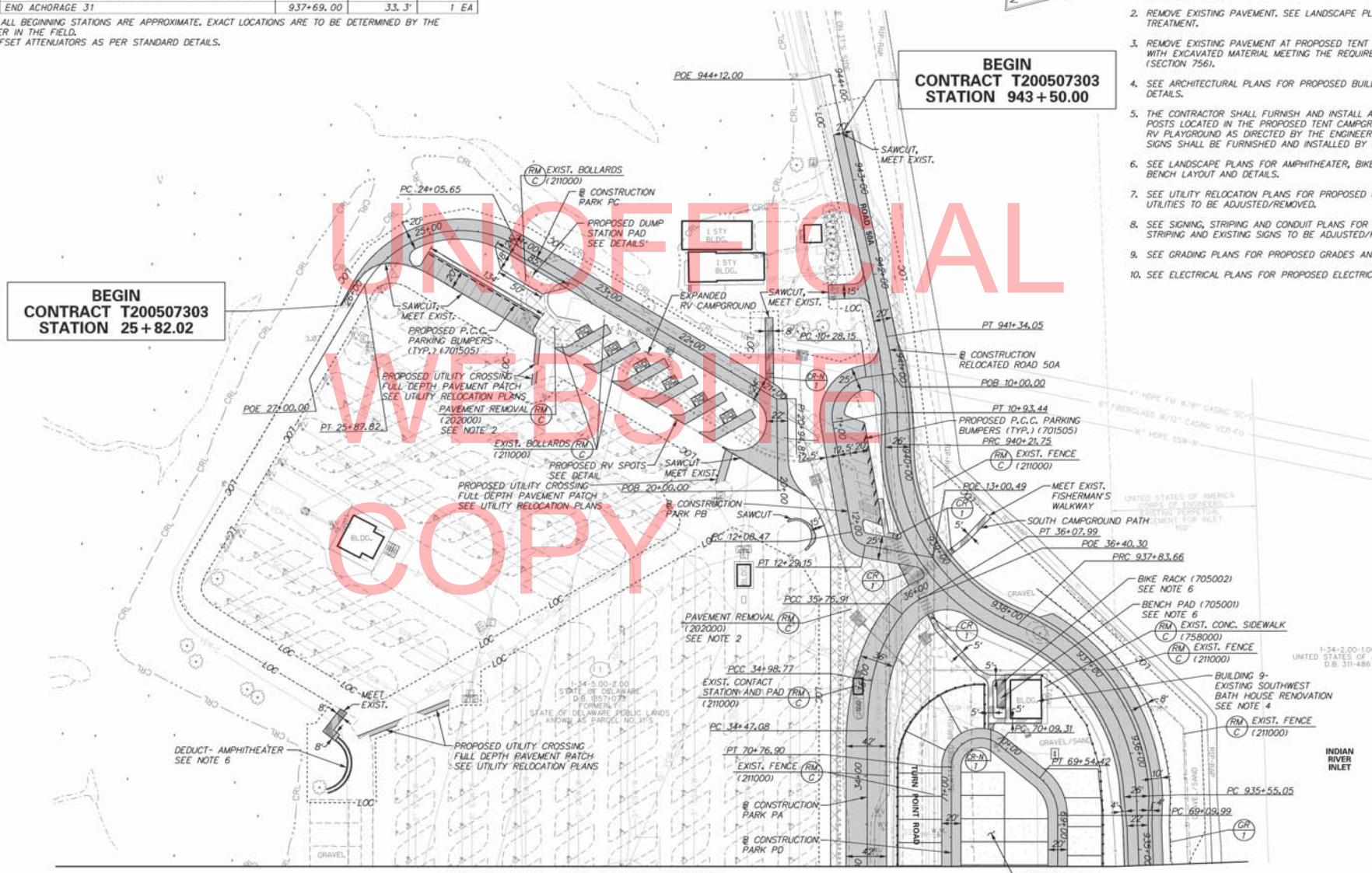
GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
1	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	934+81.50	N/A	1 EA
	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	935+31.50	33.3' -32.6'	287.5'
	END ACHORAGE 31	937+69.00	33.3'	1 EA

NOTES: ALL BEGINNING STATIONS ARE APPROXIMATE. EXACT LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
A = OFFSET ATTENUATORS AS PER STANDARD DETAILS.

NOTES:

1. SEE DRAINAGE PLANS FOR PIPE, FLARED END SECTION AND DRAINAGE DITCH SCHEDULES.
2. REMOVE EXISTING PAVEMENT. SEE LANDSCAPE PLANS FOR VEGETATIVE TREATMENT.
3. REMOVE EXISTING PAVEMENT AT PROPOSED TENT CAMPGROUND. BACKFILL WITH EXCAVATED MATERIAL MEETING THE REQUIREMENTS OF SAND (SECTION 756).
4. SEE ARCHITECTURAL PLANS FOR PROPOSED BUILDING 9 LAYOUT AND DETAILS.
5. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CAMP SPOT MARKER POSTS LOCATED IN THE PROPOSED TENT CAMPGROUND AND EXPANDED RV PLAYGROUND AS DIRECTED BY THE ENGINEER (7435.39). NEW MARKER SIGNS SHALL BE FURNISHED AND INSTALLED BY DNREC.
6. SEE LANDSCAPE PLANS FOR AMPHITHEATER, BIKE RACK, WOOD RAIL FENCE, BENCH LAYOUT AND DETAILS.
7. SEE UTILITY RELOCATION PLANS FOR PROPOSED UTILITIES AND EXISTING UTILITIES TO BE ADJUSTED/REMOVED.
8. SEE SIGNING, STRIPING AND CONDUIT PLANS FOR PROPOSED SIGNING AND STRIPING AND EXISTING SIGNS TO BE ADJUSTED/REMOVED.
9. SEE GRADING PLANS FOR PROPOSED GRADES AND STAKEOUT.
10. SEE ELECTRICAL PLANS FOR PROPOSED ELECTRIC LAYOUT AND DETAILS.



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MATCHLINE – SEE SHEET CP02-BB

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	CONSTRUCTION PLAN (BASE BID)	CP03-BB
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 24
					CHECKED BY: RK&K		TOTAL SHTS. 282

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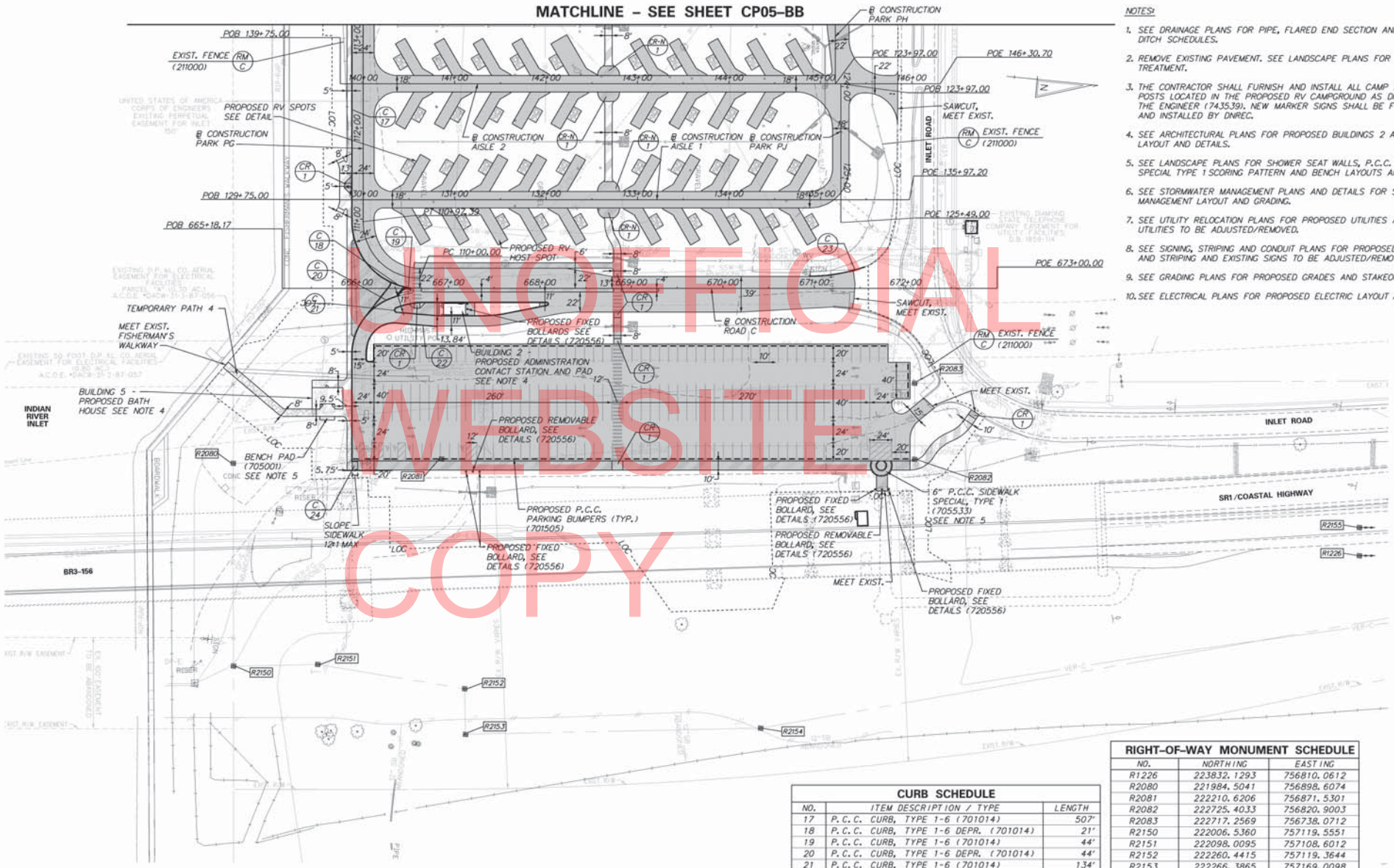

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NOTES:

1. SEE DRAINAGE PLANS FOR PIPE, FLARED END SECTION AND DRAINAGE DITCH SCHEDULES.
2. REMOVE EXISTING PAVEMENT. SEE LANDSCAPE PLANS FOR VEGETATIVE TREATMENT.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CAMP SPOT MARKER POSTS LOCATED IN THE PROPOSED RV CAMPGROUND AS DIRECTED BY THE ENGINEER (743539). NEW MARKER SIGNS SHALL BE FURNISHED AND INSTALLED BY DNREC.
4. SEE ARCHITECTURAL PLANS FOR PROPOSED BUILDINGS 2 AND 5 LAYOUT AND DETAILS.
5. SEE LANDSCAPE PLANS FOR SHOWER SEAT WALLS, P.C.C. SIDEWALK SPECIAL TYPE 1 SCORING PATTERN AND BENCH LAYOUTS AND DETAILS.
6. SEE STORMWATER MANAGEMENT PLANS AND DETAILS FOR STORMWATER MANAGEMENT LAYOUT AND GRADING.
7. SEE UTILITY RELOCATION PLANS FOR PROPOSED UTILITIES AND EXISTING UTILITIES TO BE ADJUSTED/REMOVED.
8. SEE SIGNING, STRIPING AND CONDUIT PLANS FOR PROPOSED SIGNING AND STRIPING AND EXISTING SIGNS TO BE ADJUSTED/REMOVED.
9. SEE GRADING PLANS FOR PROPOSED GRADES AND STAKEOUT.
10. SEE ELECTRICAL PLANS FOR PROPOSED ELECTRIC LAYOUT AND DETAILS.

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
17	P.C.C. CURB, TYPE 1-6 (701014)	507'
18	P.C.C. CURB, TYPE 1-6 DEPR. (701014)	21'
19	P.C.C. CURB, TYPE 1-6 (701014)	44'
20	P.C.C. CURB, TYPE 1-6 DEPR. (701014)	44'
21	P.C.C. CURB, TYPE 1-6 (701014)	134'
22	P.C.C. CURB, TYPE 1-6 (701014)	345'
23	P.C.C. CURB, TYPE 1-6 (701014)	62'
24	P.C.C. CURB, TYPE 1-6 (701014)	55'

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	NORTHING	EASTING
R1226	223832.1293	756810.0612
R2080	221984.5041	756898.6074
R2081	222210.6206	756871.5301
R2082	222725.4033	756820.9003
R2083	222717.2569	756738.0712
R2150	222006.5360	757119.5551
R2151	222098.0095	757108.6012
R2152	222260.4415	757119.3644
R2153	222266.3865	757169.0098
R2154	222586.7709	757130.4190
R2155	223824.0250	756784.4706

RIGHT-OF-WAY MONUMENT ITEM NO. 737015

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT T200507303

COUNTY SUSSEX

BRIDGE NO. X

DESIGNED BY: RK&K

CHECKED BY: RK&K

CONSTRUCTION PLAN (BASE BID)

CP04-BB

SHEET NO. 25

TOTAL SHTS. 282

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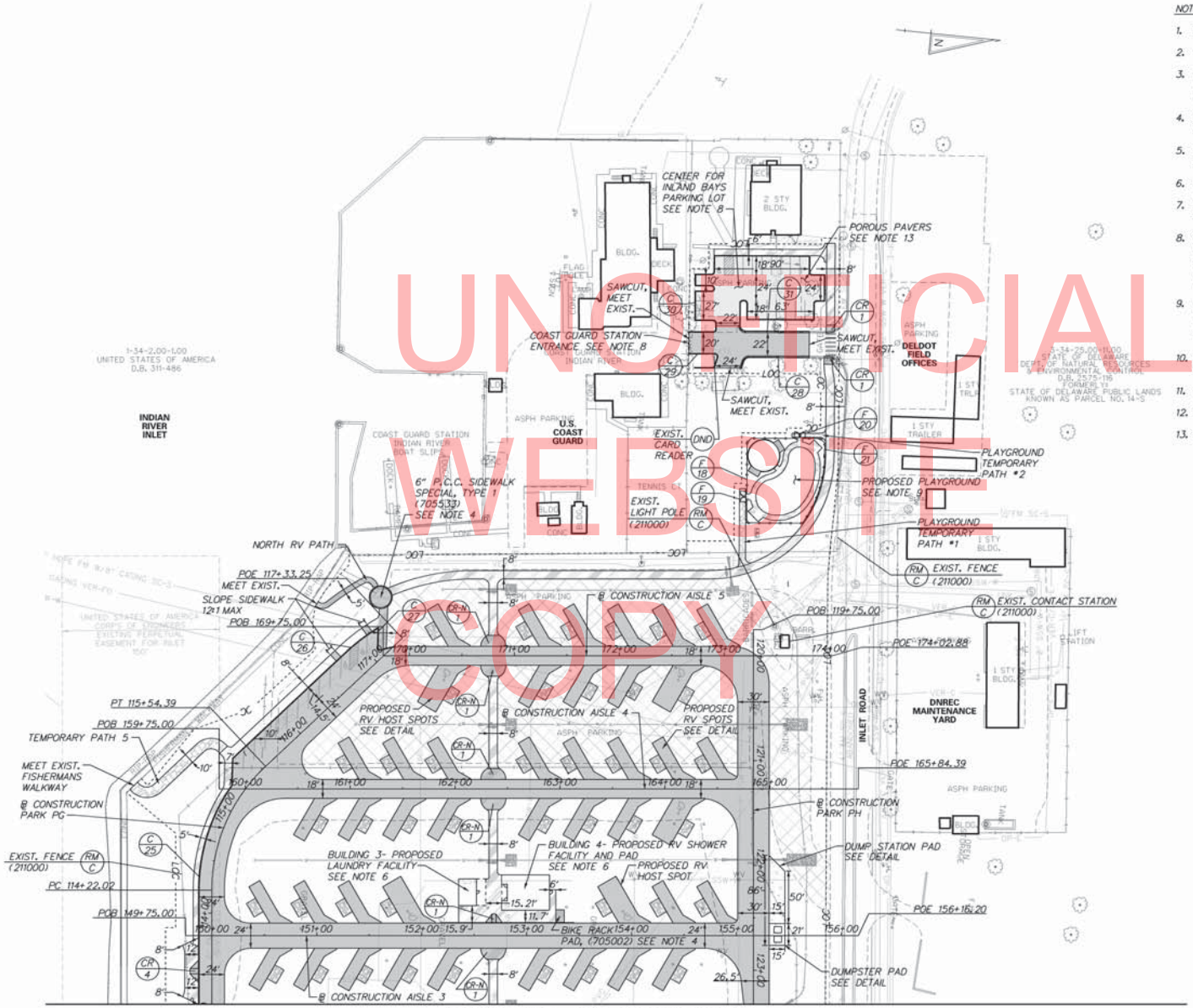

MATCHLINE – SEE SHEET CP04–BB

NOTES:

1. SEE DRAINAGE PLANS FOR PIPE, FLARED END SECTION AND DRAINAGE DITCH SCHEDULES.
2. REMOVE EXISTING PAVEMENT. SEE LANDSCAPE PLANS FOR VEGETATIVE TREATMENT.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CAMP SPOT MARKER POSTS LOCATED IN THE PROPOSED RV CAMPGROUND AS DIRECTED BY THE ENGINEER (743539). NEW MARKER SIGNS SHALL BE FURNISHED AND INSTALLED BY DNREC.
4. SEE LANDSCAPE PLANS FOR P.C.C. SIDEWALK SPECIAL TYPE 1 SCORING PATTERNS, BIKE RACK AND BENCH LAYOUTS AND DETAILS.
5. SEE STORMWATER MANAGEMENT PLANS AND DETAILS FOR STORMWATER MANAGEMENT LAYOUT AND GRADING.
6. SEE ARCHITECTURAL PLANS FOR PROPOSED BUILDINGS 3 AND 4 LAYOUT AND DETAILS.
7. SEE UTILITY RELOCATION PLANS FOR PROPOSED UTILITIES AND EXISTING UTILITIES TO BE ADJUSTED/REMOVED.
8. CONTRACTOR TO CONTACT THE USCG OFFICER OF THE DAY AND THE CENTER FOR INLAND BAYS OFFICE MANAGER ONE MONTH PRIOR TO BEGINNING CONSTRUCTION OF THE CENTER FOR INLAND BAYS PARKING LOT AND COAST GUARD ENTRANCE ROAD. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN ACCESS TO THE USCG STATION AND CENTER FOR INLAND BAYS AT ALL TIMES DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL COORDINATE PLAYGROUND CONSTRUCTION WITH DELDOT/DNREC. PLAYGROUND EQUIPMENT SHALL BE PURCHASED AND INSTALLED UNDER SEPARATE CONTRACT. THE CONTRACTOR SHALL SCHEDULE THE INSTALLATION OF THE PROPOSED FENCE AFTER THE PLAYGROUND EQUIPMENT AND SURFACE HAS BEEN INSTALLED.
10. SEE SIGNING, STRIPING AND CONDUIT PLANS FOR PROPOSED SIGNING AND STRIPING AND EXISTING SIGNS TO BE ADJUSTED/REMOVED.
11. SEE GRADING PLANS FOR PROPOSED GRADES AND STAKEOUT.
12. SEE ELECTRICAL PLANS FOR PROPOSED ELECTRIC LAYOUT AND DETAILS.
13. SEE BASE BID CONSTRUCTION DETAILS FOR POROUS PAVERS DETAIL.

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
25	P.C.C. CURB, TYPE 1-6 (701014)	382'
26	P.C.C. CURB, TYPE 1-6 DEPR. (701014)	32'
27	P.C.C. CURB, TYPE 1-6 (701014)	47'
28	CURB AND GUTTER, TYPE 3-6 (701023)	72'
29	P.C.C. CURB, TYPE 1-6 (701014)	60'
30	P.C.C. CURB, TYPE 1-6 (701014)	448'
31	CURB AND GUTTER, TYPE 3-6 (701023)	70'

FENCE SCHEDULE

NO.	QTY.	DESCRIPTION
18	143 LF	DECORATIVE FENCE, (ITEM 727522)
19	1 EACH	DECORATIVE GATE, (ITEM 727522)
20	1 EACH	DECORATIVE GATE, (ITEM 727522)
21	180 LF	DECORATIVE FENCE, (ITEM 727522)

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT T200507303 | COUNTY SUSSEX | BRIDGE NO. X | DESIGNED BY: RK&K | CHECKED BY: RK&K

CONSTRUCTION PLAN (BASE BID)

CP05-BB | SHEET NO. 26 | TOTAL SHTS. 282

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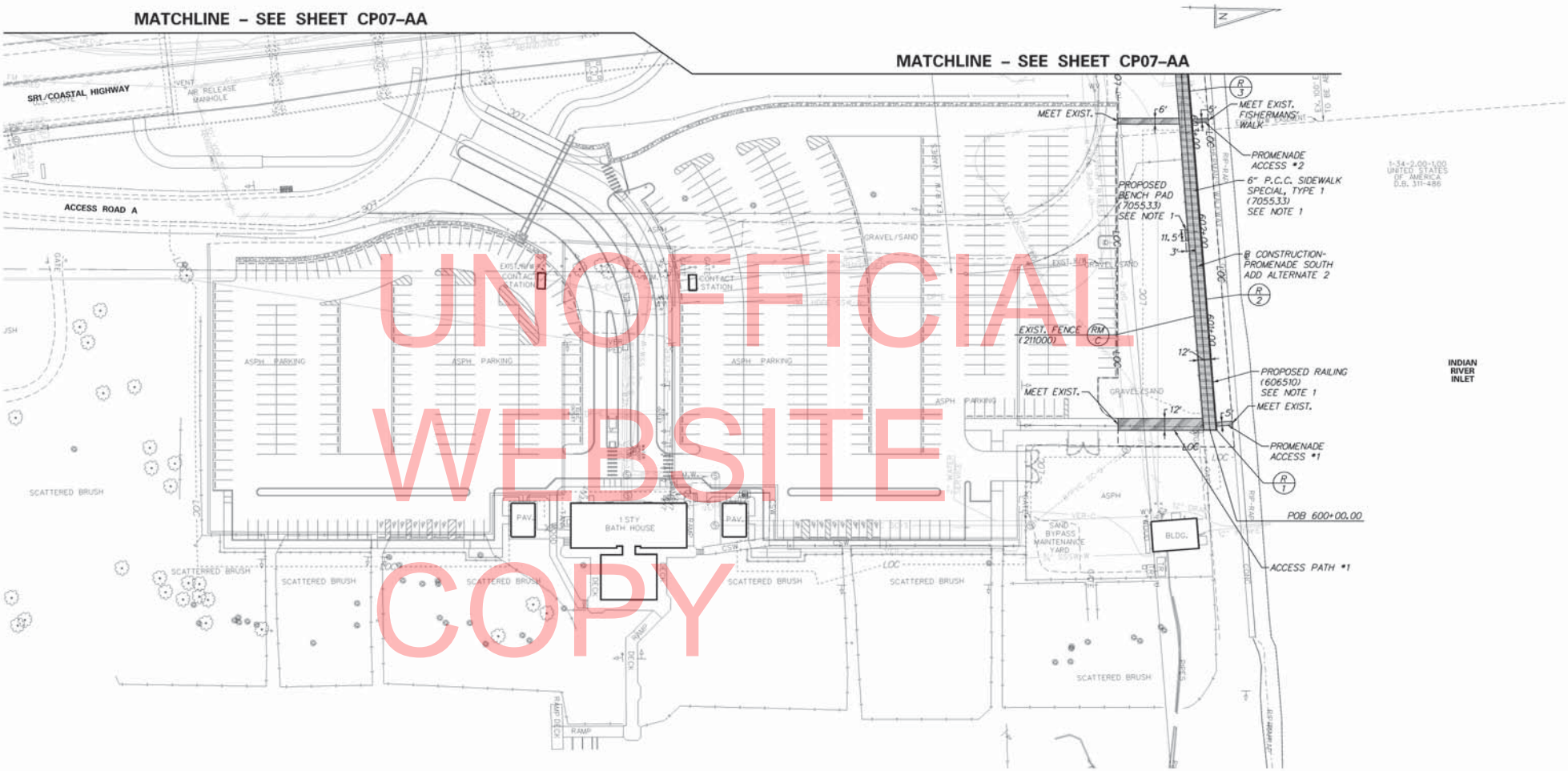

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NOTE:

1. SEE LANDSCAPE PLANS FOR PROPOSED P.C.C. SIDEWALK SPECIAL TYPE 1 SCORING PATTERNS, RAILING, BENCH LAYOUT AND DETAILS.
2. SEE UTILITY RELOCATION PLANS FOR PROPOSED UTILITIES AND EXISTING UTILITIES TO BE ADJUSTED/REMOVED.
3. SEE GRADING PLANS FOR PROPOSED GRADES AND STAKEOUT.
4. SEE ELECTRICAL PLANS FOR PROPOSED ELECTRIC LAYOUT AND DETAILS.

RAILING SCHEDULE

NO.	QTY.	DESCRIPTION	NOTES
1	4 LF	HAND RAIL, TYPE 1 (ITEM 606510)	STA. 600+00, 7' RT. TO STA. 600+03.01, 7' RT.(+/-)
2	301.5 LF	HAND RAIL, TYPE 1 (ITEM 606510)	STA. 600+07.12, 7' RT. TO STA. 603+08.71, 7' RT.(+/-)
3	680 LF	HAND RAIL, TYPE 1 (ITEM 606510)	STA. 603+12.83, 7' RT. TO STA. 609+84.24, 7' RT.(+/-)

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	BRIDGE NO.	X
T200507303	DESIGNED BY: RK&K	
COUNTY		
SUSSEX	CHECKED BY: RK&K	

CONSTRUCTION PLAN (ADD ALTERNATE 2)

CP06-AA
SHEET NO. 27
TOTAL SHTS. 282

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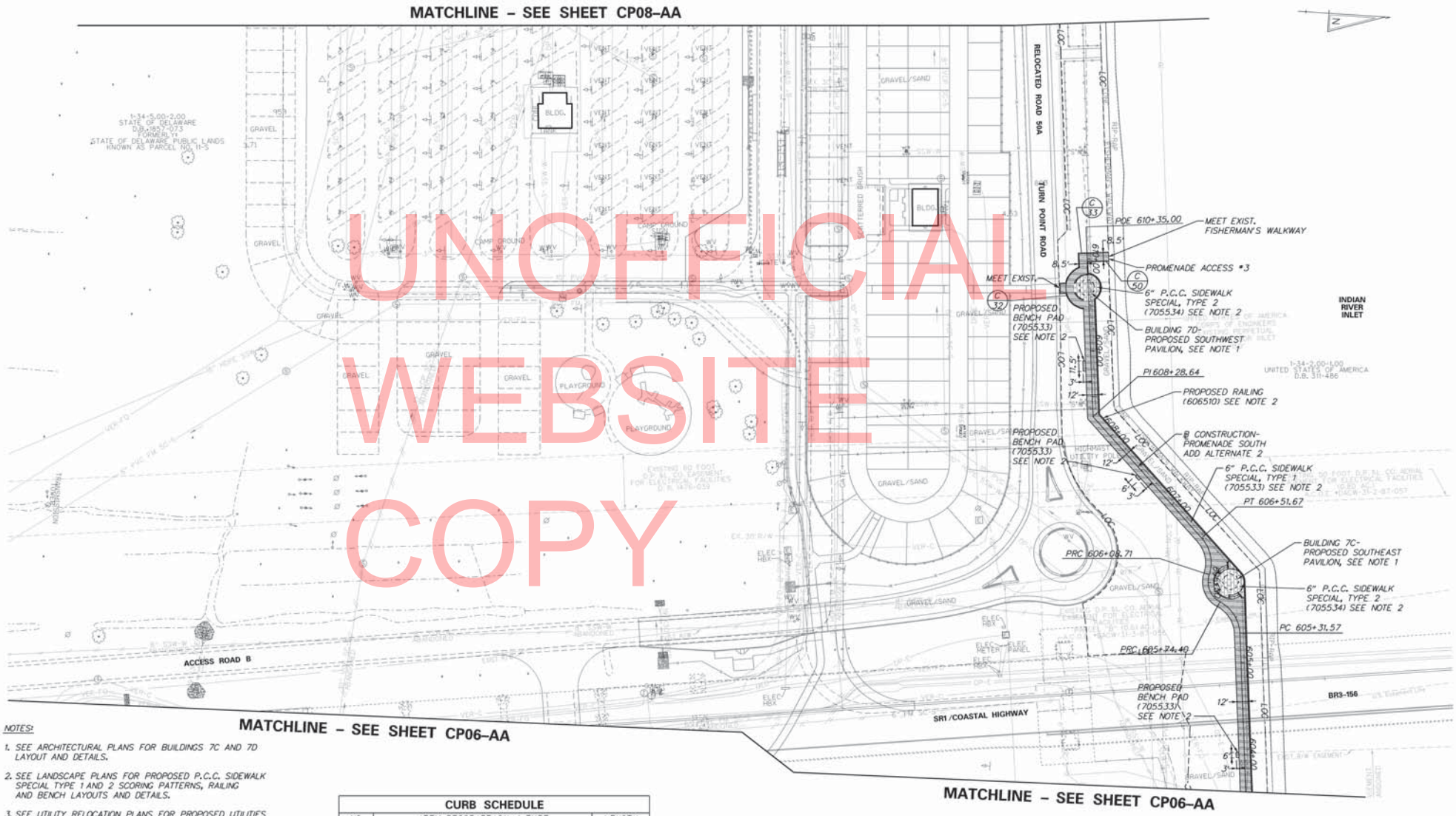

NOTES:

1. SEE ARCHITECTURAL PLANS FOR BUILDINGS 7C AND 7D LAYOUT AND DETAILS.
2. SEE LANDSCAPE PLANS FOR PROPOSED P.C.C. SIDEWALK SPECIAL TYPE 1 AND 2 SCORING PATTERNS, RAILING AND BENCH LAYOUTS AND DETAILS.
3. SEE UTILITY RELOCATION PLANS FOR PROPOSED UTILITIES AND EXISTING UTILITIES TO BE ADJUSTED/REMOVED.
4. SEE GRADING PLANS FOR PROPOSED GRADES AND STAKEOUT.
5. SEE ELECTRICAL PLANS FOR PROPOSED ELECTRIC LAYOUT AND DETAILS.

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
32	P.C.C. CURB, TYPE 1-6 (701014)	33'
33	P.C.C. CURB, TYPE 1-6 (701014)	78'
50	P.C.C. CURB, TYPE 1-6 (701014)	38'

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT T200507303 | COUNTY SUSSEX | BRIDGE NO. X | DESIGNED BY: RK&K | CHECKED BY: RK&K

CONSTRUCTION PLAN (ADD ALTERNATE 2)

CP07-AA | SHEET NO. 28 | TOTAL SHTS. 282

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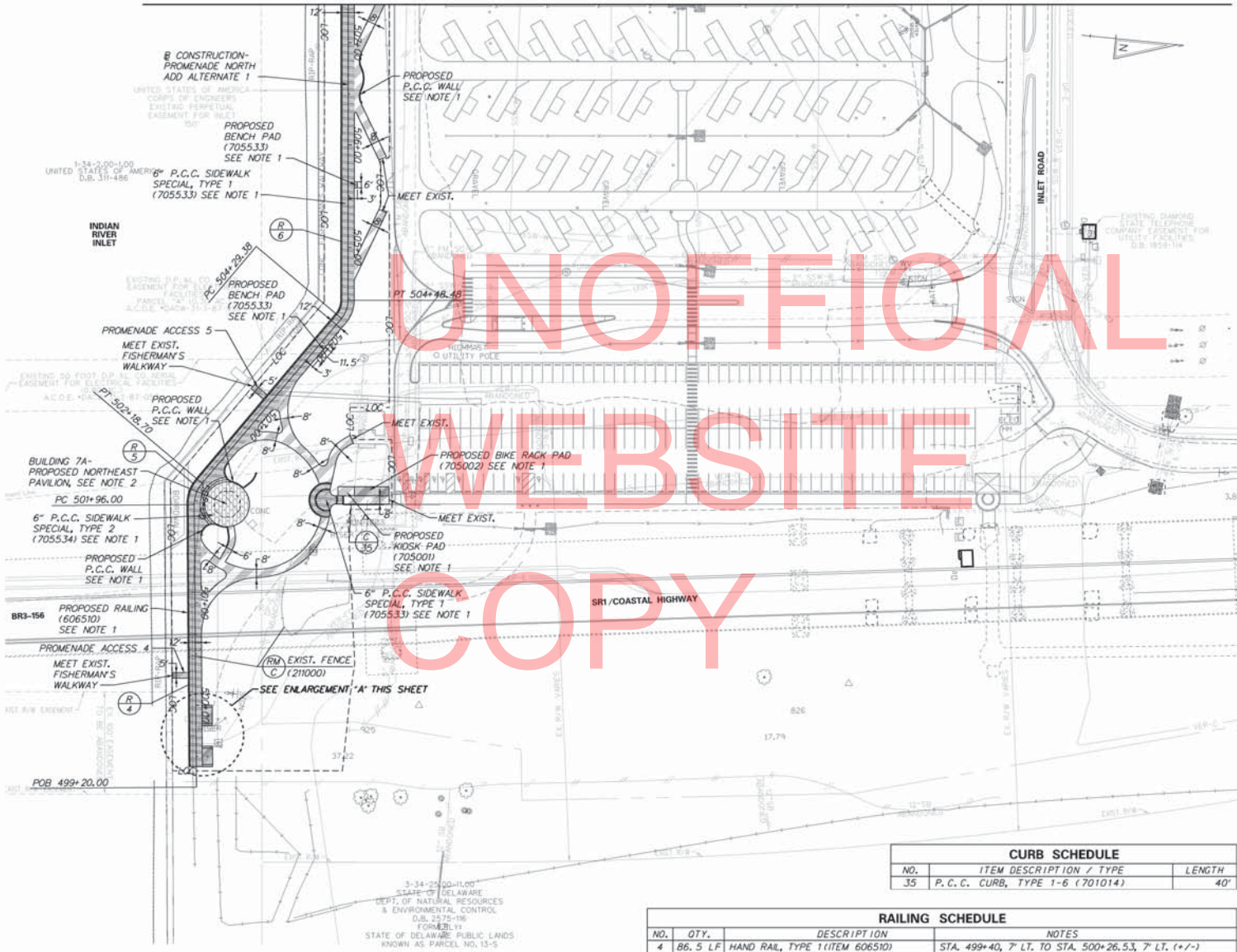
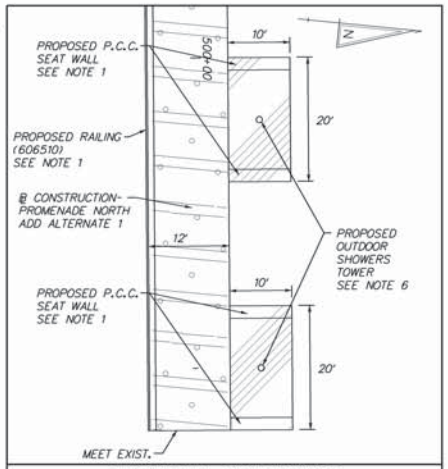
MATCHLINE – SEE SHEET CP09–AA





ENLARGEMENT 'A' - PROPOSED SHOWER
SCALE: 1" = 10'

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CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
35	P.C.C. CURB, TYPE 1-6 (701014)	40'

RAILING SCHEDULE				
NO.	QTY.		DESCRIPTION	NOTES
4	86.5	LF	HAND RAIL, TYPE 1 (ITEM 606510)	STA. 499+40, 7' LT. TO STA. 500+26.53, 7' LT. (+/-)
5	29.3	LF	HAND RAIL, TYPE 1 (ITEM 606510)	STA. 500+32.07, 7' LT. TO STA. 503+20.11, 7' LT. (+/-)
6	890.5	LF	HAND RAIL, TYPE 1 (ITEM 606510)	STA. 503+25.67, 7' LT. TO STA. 512+10.24, 7' LT. (+/-)

NOTE:

1. SEE LANDSCAPE PLANS FOR PROPOSED P.C.C. SIDEWALK TYPE 1 AND 2 SCORING PATTERNS, RAILING, KIOSK, BIKE RACK, BENCH AND NODE AND SHOWER P.C.C. SEAT WALL LAYOUTS AND DETAILS.
2. SEE ARCHITECTURAL PLANS FOR BUILDING 7A LAYOUT AND DETAILS.
3. SEE UTILITY RELOCATION PLANS FOR PROPOSED UTILITIES AND EXISTING UTILITIES TO BE ADJUSTED/REMOVED.
4. SEE GRADING PLANS FOR PROPOSED GRADES AND STAKEOUT.
5. SEE ELECTRICAL PLANS FOR PROPOSED ELECTRIC LAYOUT AND DETAILS.
6. SEE MEP PLANS FOR PROPOSED OUTDOOR SHOWER TOWER DETAILS.

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT T200507303 | COUNTY SUSSEX | BRIDGE NO. X | DESIGNED BY: RK&K | CHECKED BY: RK&K

CONSTRUCTION PLAN (ADD ALTERNATE 1)

CP08-AA | SHEET NO. 29 | TOTAL SHTS. 282

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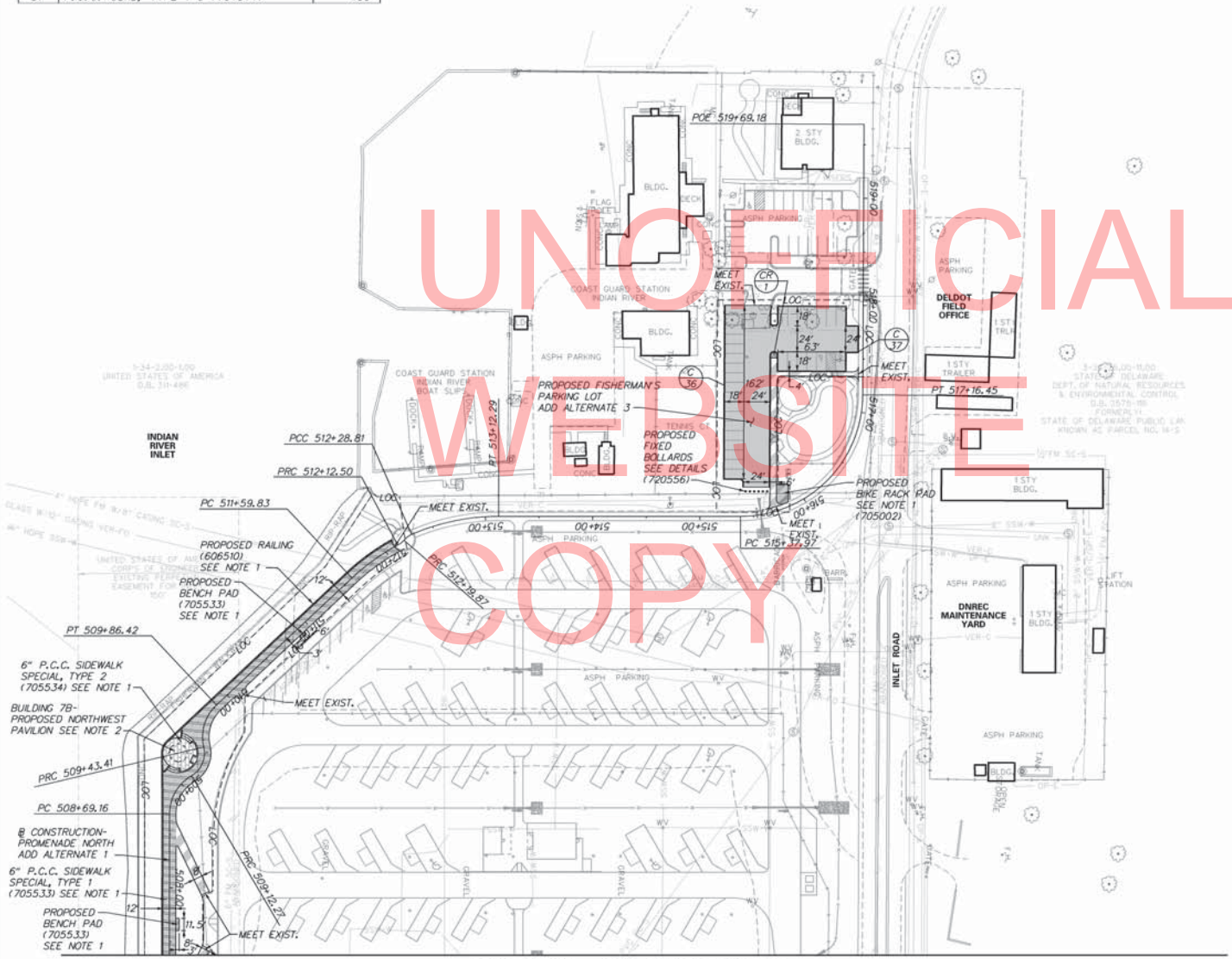
CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
36	P.C.C. CURB, TYPE 1-6 (701014)	187'
37	P.C.C. CURB, TYPE 1-6 (701014)	400'



MATCHLINE – SEE SHEET CP08–AA

NOTES:

1. SEE LANDSCAPE PLANS FOR PROPOSED P.C.C. SIDEWALK SPECIAL TYPE 1 AND 2 SCORING PATTERNS, DECORATIVE FENCE PATTERNS, BENCH AND RAILING LAYOUTS AND DETAILS.
2. SEE ARCHITECTURAL PLANS FOR BUILDING 7B LAYOUT AND DETAILS.
3. SEE UTILITY RELOCATION PLANS FOR PROPOSED UTILITIES AND EXISTING UTILITIES TO BE ADJUSTED/REMOVED.
4. SEE SIGNING, STRIPING AND CONDUIT PLANS FOR PROPOSED SIGNING AND STRIPING, AND EXISTING SIGNS TO BE ADJUSTED/REMOVED.
5. SEE GRADING PLANS FOR PROPOSED GRADES AND STAKEOUT.
6. SEE ELECTRICAL PLANS FOR PROPOSED ELECTRIC LAYOUT AND DETAILS.

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	BRIDGE NO.	X
T200507303	DESIGNED BY: RK&K	
COUNTY		
SUSSEX	CHECKED BY: RK&K	

CONSTRUCTION PLAN (ADD ALTERNATES 1 AND 3)

CP09-AA
SHEET NO. 30
TOTAL SHTS. 282

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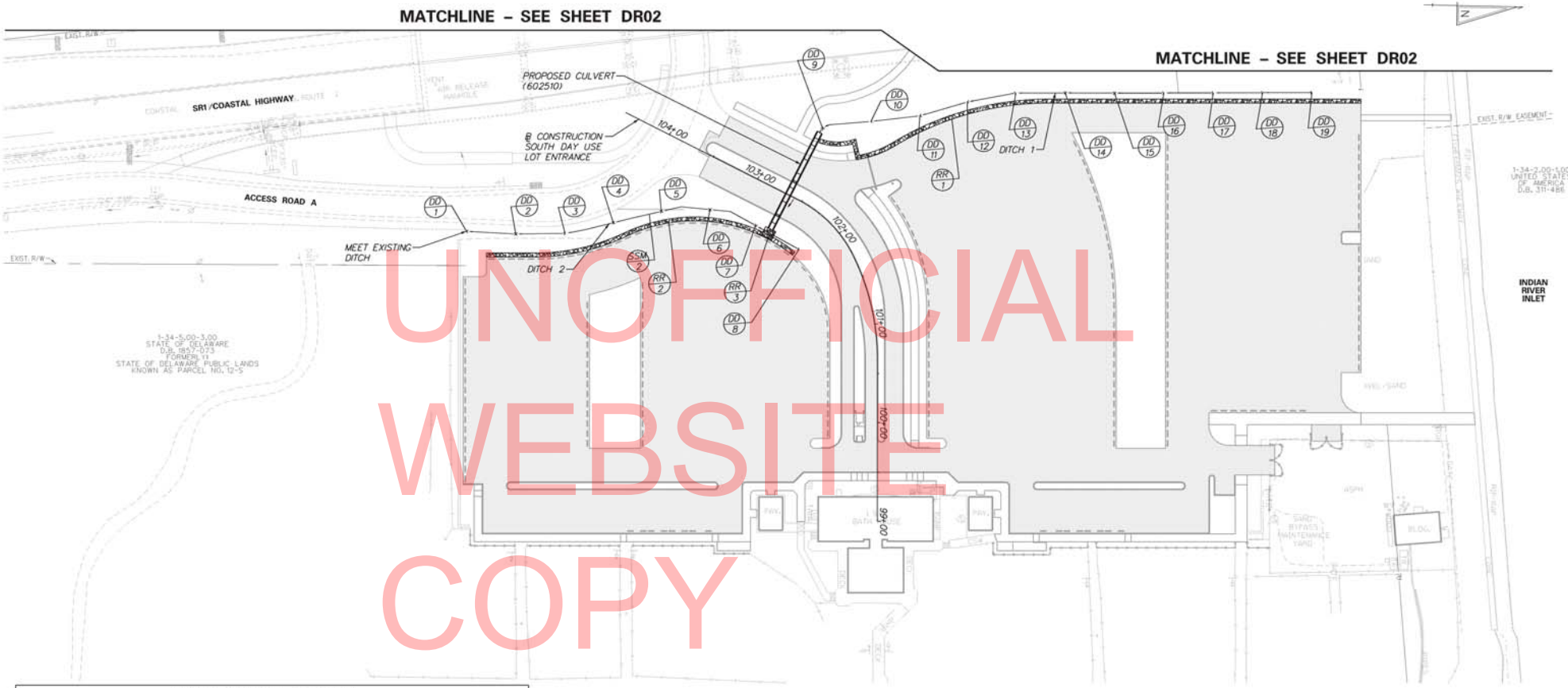

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DRAINAGE DITCH SCHEDULE

DITCH	NO.	NORTHING	EASTING	ELEVATION	BOTTOM WIDTH (A)	LEFT SIDE SLOPE (B1)	RIGHT SIDE SLOPE (B2)	DEPTH (C)
2	1	220409.27	757375.63	MEET EXIST.	2'	4:1	4:1	1
2	2	220459.25	757377.24	2.77	2'	4:1	4:1	1
2	3	220509.22	757375.60	2.90	2'	4:1	4:1	1
2	4	220557.76	757363.71	3.05	2'	4:1	4:1	1
2	5	220606.15	757351.14	3.20	2'	4:1	4:1	1
2	6	220655.45	757348.26	3.35	2'	4:1	3:1	1
2	7	220702.05	757363.38	3.50	2'	4:1	3:1	1
2	8	220746.34	757386.58	3.71	2'	4:1	3:1	1
1	9	220767.86	757263.52	4.17	2'	4:1	3:1	1
1	10	220816.49	757255.33	4.32	2'	4:1	3:1	1
1	11	220866.02	757248.55	4.47	2'	4:1	4:1	1
1	12	220913.70	757233.48	4.62	2'	4:1	4:1	1
1	13	220962.66	757223.34	4.77	2'	4:1	4:1	1
1	14	221012.64	757222.05	4.92	2'	4:1	4:1	1
1	15	221062.64	757221.24	5.07	2'	4:1	4:1	1
1	16	221112.62	757220.02	5.22	2'	4:1	4:1	1
1	17	221162.61	757218.79	5.37	2'	4:1	4:1	1
1	18	221212.59	757217.57	5.52	2'	4:1	4:1	0.5
1	19	221262.58	757216.35	5.67	2'	4:1	4:1	0.5

SOIL RETENTION BLANKET MULCH TYPE 5

DITCH	LENGTH	B1	A	B2	AREA (SY)
1	500	4.12	2	4.12	569
2	320	4.12	2	4.12	364

R-4 RIPRAP SCHEDULE

RR	RIPRAP LIMITS (FT.) W	RIPRAP LIMITS (FT.) L	AREA S.Y.
1	4	572	255
2	4	326	145
3	10	15	16.67

NOTES:

1. SEE CONSTRUCTION DETAIL (BASE BID) SHEET (DT-02BB) FOR CULVERT PLAN, PROFILE, AND DETAILS
2. SEE CONSTRUCTION DETAIL (BASE BID) SHEET (DT-03BB) FOR DRAINAGE DETAILS

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	BRIDGE NO.	X
T200507303	DESIGNED BY: RK&K	
COUNTY		
SUSSEX	CHECKED BY: RK&K	

DRAINAGE PLAN (BASE BID)

DR01

SHEET NO. 31

TOTAL SHTS. 282

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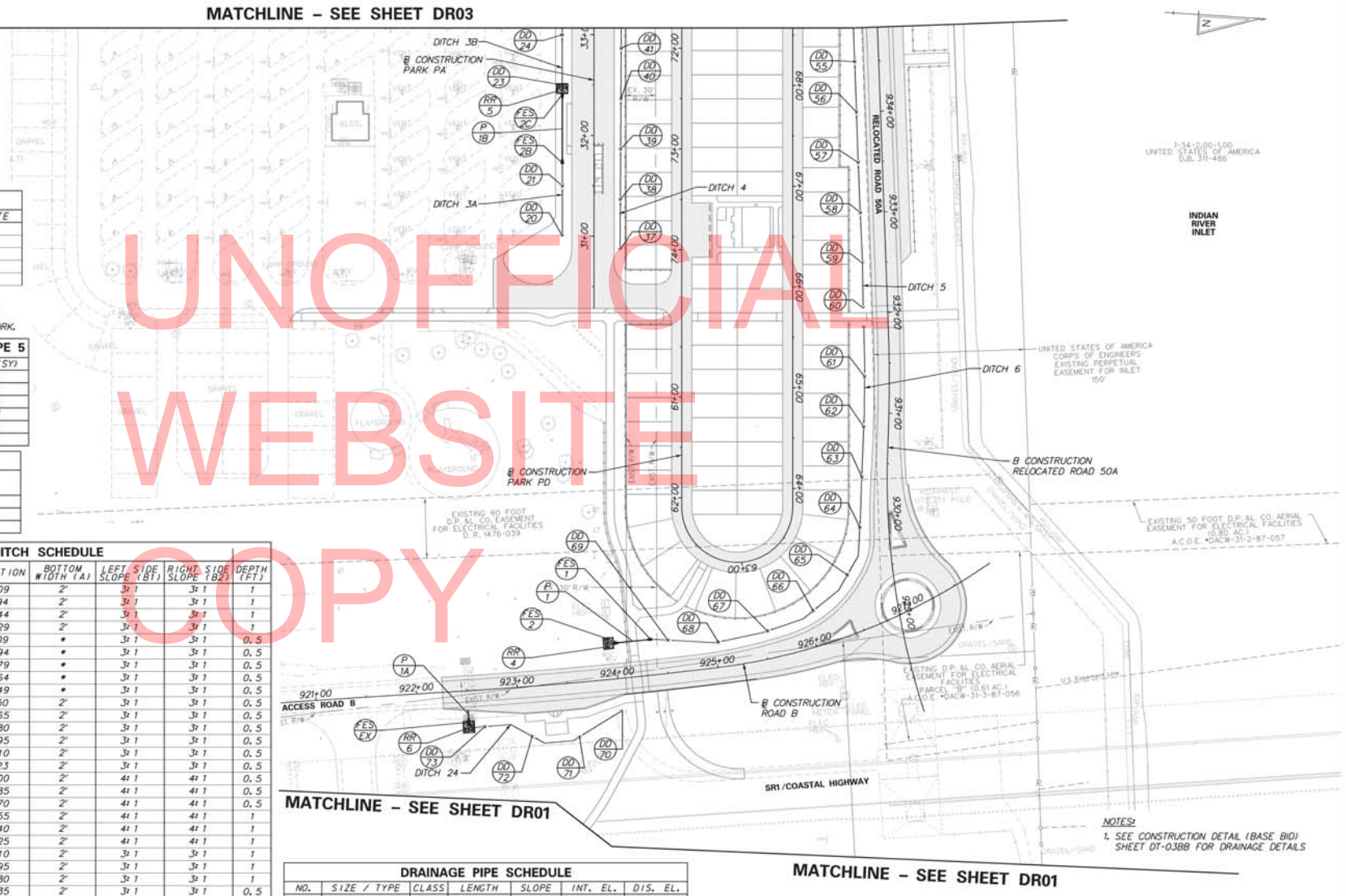

UNOFFICIAL WEBSITE COPY

NOTES:
1. SEE CONSTRUCTION DETAIL (BASE BID) SHEET DT-03BB FOR DRAINAGE DETAILS

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
1	18" / RCP	0.40%	NO
2	18" / RCP	0.40%	NO
2B	15" / RCP	0.50%	NO
2C	15" / RCP	0.50%	NO
EX.	19"X30" / RCP	MEET EX.	NO

NOTE: THE COST OF REMOVING AND RESETTING EXISTING FLARED END SECTION SHALL BE INCLUDED IN THE COST OF THE PIPE THAT IS BEING EXTENDED. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.

SOIL RETENTION BLANKET MULCH TYPE 5

DITCH	LENGTH	B1	A	B2	AREA (SY)
3A	72	3.16	2	3.16	67
3B	57	3.16	2	3.16	53
4	230	3.16	-	3.16	155
5	278	3.16	2	3.16	257
6	465	4.12	2	4.12	518
24	166	3.16	2	3.16	154

R-4 RIPRAP SCHEDULE

RR	RIPRAP LIMITS (FT.) W	RIPRAP LIMITS (FT.) L	AREA S.Y.
4	10	11.5	12.78
5	10	11.25	12.50
6	12	11.25	15.00

DRAINAGE DITCH SCHEDULE

DITCH	NO.	NORTHING	EASTING	ELEVATION	BOTTOM WIDTH (A)	LEFT SIDE SLOPE (B1)	RIGHT SIDE SLOPE (B2)	DEPTH (FT)
3A	20	220795.38	756601.40	3.09	2'	3:1	3:1	1
3A	21	220792.10	756551.51	2.94	2'	3:1	3:1	1
3B	23	220785.52	756451.72	2.44	2'	3:1	3:1	1
3B	24	220782.23	756401.83	2.29	2'	3:1	3:1	1
4	37	220853.38	756611.02	3.09	*	3:1	3:1	0.5
4	38	220850.39	756561.11	2.94	*	3:1	3:1	0.5
4	39	220847.41	756511.20	2.79	*	3:1	3:1	0.5
4	40	220844.43	756461.29	2.64	*	3:1	3:1	0.5
4	41	220841.45	756411.38	2.49	*	3:1	3:1	0.5
5	55	221073.31	456409.70	2.50	2'	3:1	3:1	0.5
5	56	221078.26	756459.45	2.65	2'	3:1	3:1	0.5
5	57	221083.25	756509.20	2.80	2'	3:1	3:1	0.5
5	58	221088.53	756558.92	2.95	2'	3:1	3:1	0.5
5	59	221094.04	756608.62	3.10	2'	3:1	3:1	0.5
5	60	221097.57	756653.18	3.23	2'	3:1	3:1	0.5
6	61	221103.35	756720.79	3.00	2'	4:1	4:1	0.5
6	62	221105.76	756770.72	2.85	2'	4:1	4:1	0.5
6	63	221107.09	756820.71	2.70	2'	4:1	4:1	0.5
6	64	221108.37	756870.69	2.55	2'	4:1	4:1	1
6	65	221099.10	756918.50	2.40	2'	4:1	4:1	1
6	66	221067.48	756956.23	2.25	2'	4:1	4:1	1
6	67	221023.72	756979.13	2.10	2'	3:1	3:1	1
6	68	220975.81	756993.32	1.95	2'	3:1	3:1	1
6	69	220925.94	756994.62	1.80	2'	3:1	3:1	1
24	70	220885.34	757067.10	4.35	2'	3:1	3:1	0.5
24	71	220844.62	757096.12	3.52	2'	3:1	3:1	1
24	72	220797.63	757098.55	2.69	2'	2:1	3:1	1
24	73	220750.18	757092.09	0.92	2'	3:1	3:1	1

* DENOTES V-DITCH

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	18" / RCP	IV	28'	0.40%	1.73	1.60
1A	19"X30" / RCP	IV	8'	0.30%	0.39	MEET EXIST.
1B	15" / RCP	IV	60'	0.50%	2.81	2.51

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT T200507303 | COUNTY SUSSEX | BRIDGE NO. X | DESIGNED BY: RK&K | CHECKED BY: RK&K

DRAINAGE PLAN (BASE BID)

DR02 | SHEET NO. 32 | TOTAL SHTS. 282

DRAINAGE DITCH SCHEDULE

DITCH	NO.	NORTHING	EASTING	ELEVATION	BOTTOM WIDTH (A)	LEFT SIDE SLOPE (B1)	RIGHT SIDE SLOPE (B2)	DEPTH (FT)
3B	25	220778.94	756351.94	2.04	2'	3:1	3:1	1
3B	26	220775.65	756302.05	1.79	2'	3:1	3:1	1
3B	27	220772.69	756252.15	1.54	2'	3:1	3:1	1
3B	28	220773.98	756202.17	1.29	2'	3:1	3:1	1
3B	29	220782.73	756153.04	1.04	2'	3:1	3:1	1
3B	30	220778.47	756108.50	0.89	2'	3:1	3:1	1
7	31	220719.10	755954.40	0.34	2'	3:1	3:1	1
7	32	220712.07	755904.89	0.19	2'	3:1	3:1	1
7	33	220711.61	755868.98	0.08	2'	3:1	3:1	1
4	42	220838.47	756361.47	2.34	*	3:1	3:1	1
4	43	220835.49	756311.55	2.19	*	3:1	3:1	1
4	44	220833.33	756261.60	2.04	*	3:1	3:1	1
4	45	220838.82	756212.11	1.54	*	3:1	3:1	1
4	46	220850.45	756165.27	1.26	2'	3:1	3:1	1
5	48	220899.98	756142.99	1.50	2'	3:1	3:1	1
5	49	220946.92	756160.19	1.60	2'	3:1	3:1	1
5	50	220991.34	756182.58	1.75	2'	3:1	3:1	1
5	51	221025.72	756218.61	1.90	2'	3:1	3:1	1
5	52	221050.31	756261.78	2.05	2'	3:1	3:1	1
5	53	221061.70	756310.39	2.20	2'	3:1	3:1	1
5	54	221068.32	756359.95	2.35	2'	3:1	3:1	1

* DENOTES V-DITCH

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
2	15" / RCP	V	42'	0.30%	1.66	1.53
3	15" / RCP	IV	12'	0.50%	1.98	1.92
4	18" / RCP	IV	86'	0.30%	0.82	0.57

SOIL RETENTION BLANKET MULCH TYPE 5

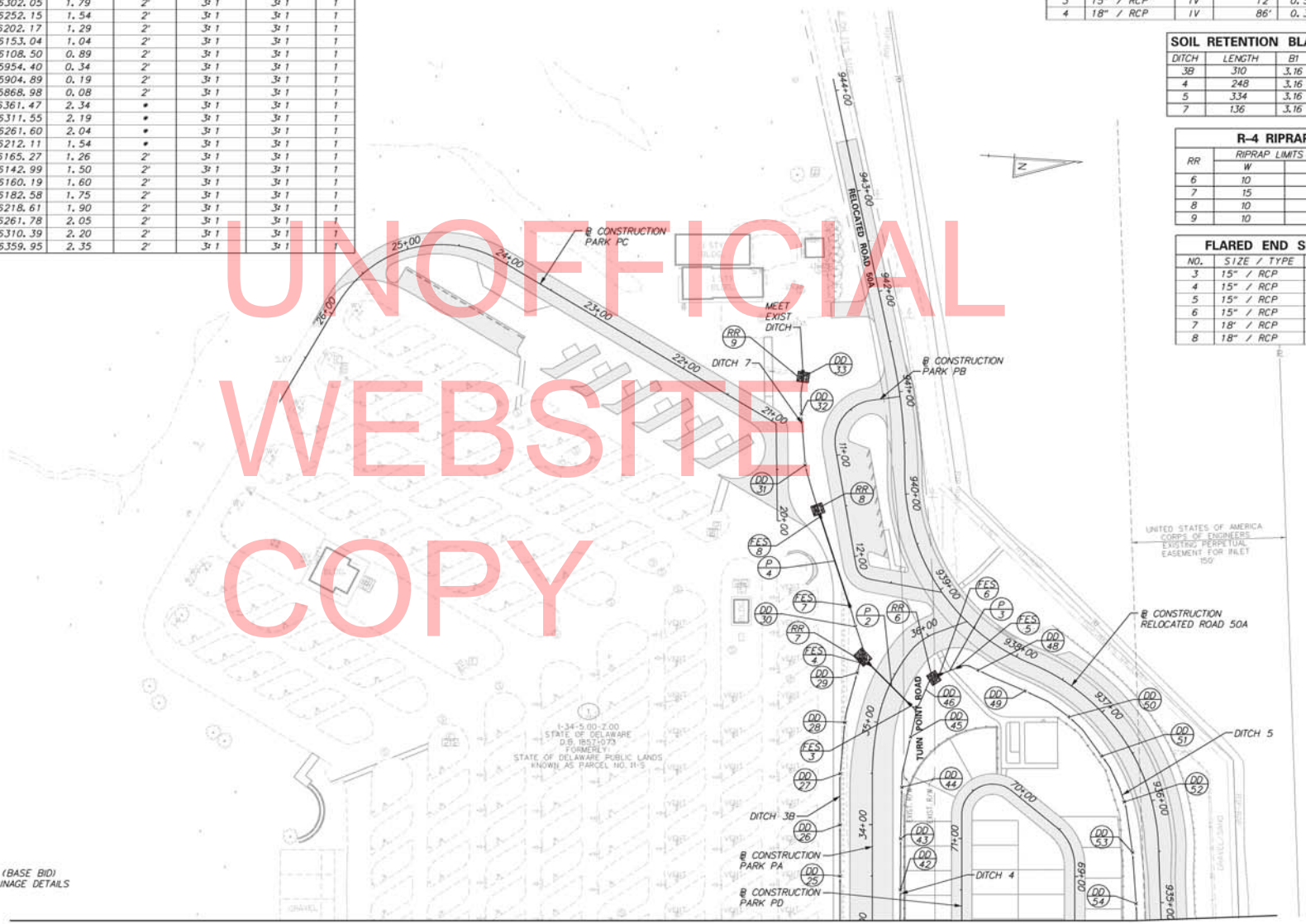
DITCH	LENGTH	B1	A	B2	AREA (SY)
3B	310	3.16	2	3.16	287
4	248	3.16	-	3.16	175
5	334	3.16	2	3.16	307
7	136	3.16	2	3.16	126

R-4 RIPRAP SCHEDULE

RR	RIPRAP LIMITS (FT.) W	RIPRAP LIMITS (FT.) L	AREA S.Y.
6	10	11.25	12.5
7	15	11.25	18.75
8	10	11.25	12.5
9	10	11.25	12.5

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
3	15" / RCP	0.30%	NO
4	15" / RCP	0.30%	NO
5	15" / RCP	0.50%	NO
6	15" / RCP	0.50%	NO
7	18" / RCP	0.30%	NO
8	18" / RCP	0.30%	NO



NOTES:

1. SEE CONSTRUCTION DETAIL (BASE BID) SHEET (DT-03BB) FOR DRAINAGE DETAILS

MATCHLINE – SEE SHEET DR02

UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303 / COUNTY SUSSEX	BRIDGE NO. X / DESIGNED BY: RK&JK / CHECKED BY: RK&JK	DRAINAGE PLAN (BASE PLAN)	DR03 / SHEET NO. 33 / TOTAL SHTS. 282

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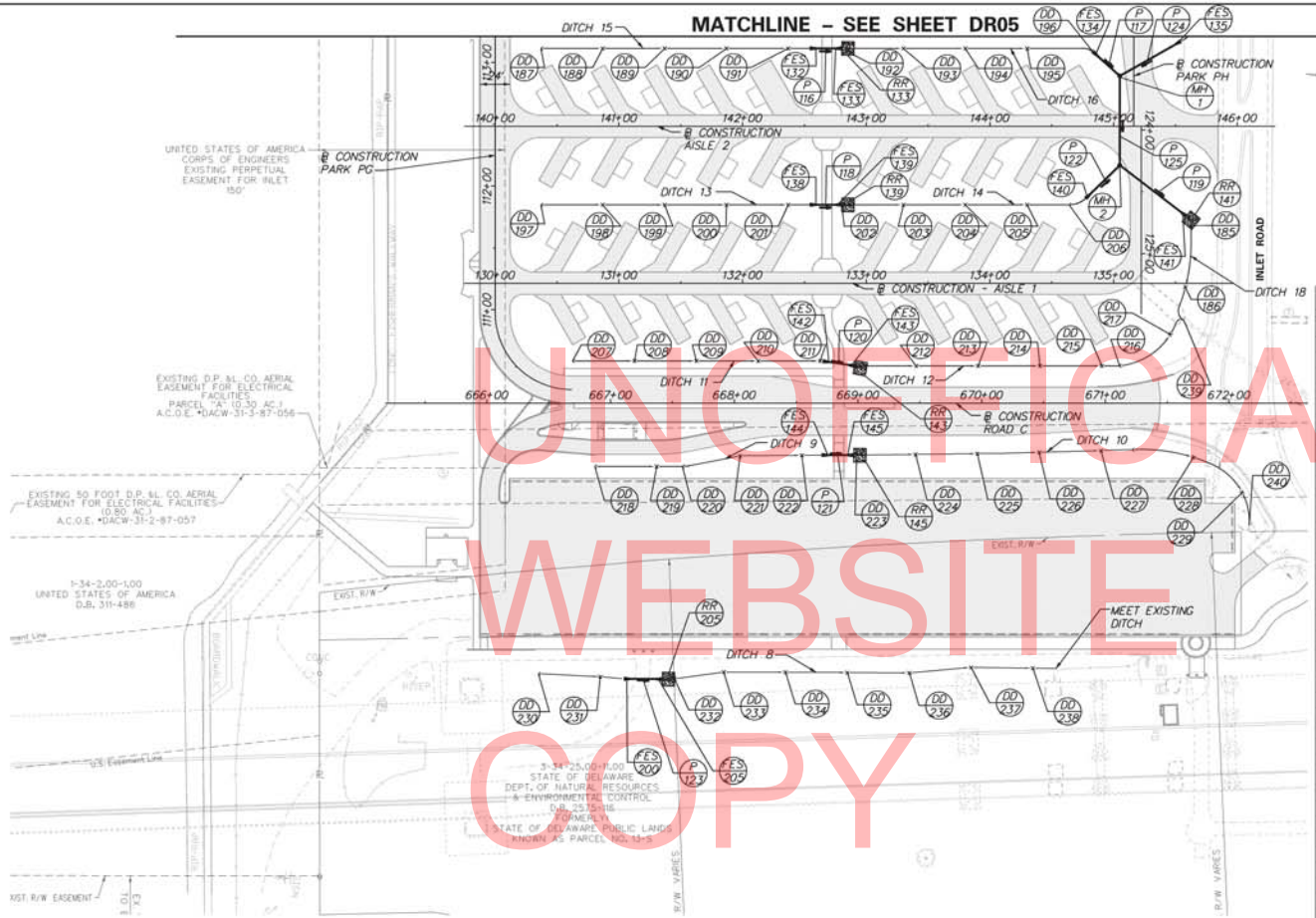


UNOFFICIAL WEBSITE COPY

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
116	15" / RCP	IV	16'	0.50%	6.66	6.58
117	15" / RCP	IV	22'	0.50%	5.50	5.39
118	15" / RCP	IV	16'	0.50%	6.95	6.87
119	24" / RCP	V	61'	0.50%	3.46	3.16
120	15" / RCP	IV	16'	0.50%	5.90	5.82
121	15" / RCP	IV	16'	1.25%	6.27	6.07
122	15" / RCP	IV	33'	0.50%	5.83	5.67
123	15" / RCP	V	22'	0.30%	6.32	6.26
124	24" / RCP	V	50'	0.50%	4.05	3.80
125	24" / RCP	V	69'	0.50%	3.80	3.46

DRAINAGE DITCH SCHEDULE

DITCH	NO.	NORTHING	EASTING	ELEVATION	BOTTOM WIDTH (A)	LEFT SIDE SLOPE (B1)	RIGHT SIDE SLOPE (B2)	DEPTH (FT)
18	185	222652.11	756490.95	3.15	10'	4:1	4:1	1
18	186	222653.59	756540.80	2.98	10'	4:1	4:1	1
15	187	222115.45	756404.70	7.73	2'	4:1	4:1	0.5
15	188	222165.21	756399.78	7.49	2'	4:1	4:1	1
15	189	222214.97	756394.85	7.25	2'	4:1	4:1	1
15	190	222264.72	756389.93	7.01	2'	4:1	4:1	1
15	191	222314.48	756385.01	6.77	2'	4:1	4:1	1
16	192	222357.41	756380.76	6.55	2'	4:1	4:1	1
16	193	222407.17	756375.84	6.30	2'	4:1	4:1	1
16	194	222456.92	756370.91	6.05	2'	4:1	4:1	1
16	195	222506.68	756365.99	5.80	2'	4:1	4:1	1
16	196	222556.44	756361.07	5.55	2'	4:1	4:1	1
13	197	222127.91	756530.59	7.70	2'	3:1	3:1	1
13	198	222177.67	756525.67	7.53	2'	3:1	3:1	1
13	199	222227.42	756520.75	7.37	2'	3:1	3:1	1
13	200	222277.18	756515.82	7.20	2'	3:1	3:1	1
13	201	222326.94	756510.90	7.03	2'	3:1	3:1	1
14	202	222369.87	756506.65	6.87	2'	4:1	4:1	1
14	203	222419.62	756501.73	6.59	2'	4:1	4:1	1
14	204	222469.38	756496.80	6.34	2'	4:1	4:1	1
14	205	222519.14	756491.88	6.09	2'	4:1	4:1	1
14	206	222568.89	756486.95	5.84	2'	4:1	4:1	1
11	207	222165.88	756653.79	6.60	*	3:1	3:1	1
11	208	222215.64	756648.87	6.44	*	3:1	3:1	1
11	209	222265.40	756643.95	6.27	*	3:1	3:1	1
11	210	222315.16	756639.02	6.11	*	3:1	3:1	1
11	211	222364.91	756634.10	5.95	*	3:1	3:1	1
12	212	222442.68	756630.43	5.40	*	3:1	3:1	1
12	213	222492.44	756625.51	4.99	*	3:1	3:1	1
12	214	222542.19	756620.58	4.58	*	3:1	3:1	1
12	215	222591.95	756615.66	4.17	*	3:1	3:1	1
12	216	222606.17	756614.25	3.95	*	3:1	3:1	1
12	217	222644.45	756584.79	3.06	*	3:1	3:1	1
9	218	222192.08	756736.95	7.12	2'	4:1	4:1	1
9	219	222241.83	756732.03	6.97	2'	4:1	4:1	1
9	220	222262.55	756729.98	6.91	2'	4:1	4:1	1
9	221	222308.09	756716.83	6.54	2'	4:1	4:1	1
9	222	222357.80	756711.48	6.34	2'	4:1	4:1	1
10	223	222399.46	756707.22	6.07	2'	4:1	4:1	1
10	224	222449.15	756701.69	5.72	2'	4:1	4:1	1
10	225	222498.85	756696.16	5.37	2'	4:1	4:1	1
10	226	222548.49	756690.20	5.02	2'	4:1	4:1	1
10	227	222598.09	756683.87	4.67	2'	4:1	4:1	1
10	228	222672.18	756678.03	4.15	2'	3:1	3:1	1
10	229	222711.93	756706.76	3.80	2'	3:1	3:1	1
8	230	222163.27	756908.26	6.55	2'	4:1	4:1	1
8	231	222213.26	756905.76	6.40	2'	4:1	4:1	1
8	232	222273.14	756901.57	6.22	2'	4:1	4:1	1
8	233	222312.12	756892.16	6.10	2'	4:1	4:1	1
8	234	222361.90	756887.48	5.95	2'	4:1	4:1	1
8	235	222411.68	756882.79	5.80	2'	4:1	4:1	1
8	236	222461.67	756878.07	5.65	2'	4:1	4:1	1
8	237	222510.79	756868.75	5.50	2'	2:1	2:1	1
8	238	222560.61	756864.50	4.86	2'	4:1	4:1	1
18	239	222654.35	756572.50	2.38	2'	4:1	4:1	1
10	240	222723.22	756732.54	3.56	2'	3:1	3:1	1

* DENOTES V-DITCH

MANHOLE SCHEDULE

NO.	NORTHING	EASTING	SIZE / TYPE	RIM ELEV.	INV. ELEV.
1	222583.22	756380.76	48" / ROUND	7.72	3.80
2	222590.35	756452.79	48" / ROUND	7.61	3.46

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
132	15" / RCP	0.50%	NO
133	15" / RCP	0.50%	NO
134	15" / RCP	1.50%	NO
135	24" / RCP	0.50%	YES
138	15" / RCP	0.50%	NO
139	15" / RCP	0.50%	NO
140	15" / RCP	2.00%	NO
141	24" / RCP	0.50%	NO
142	15" / RCP	0.50%	NO
143	15" / RCP	0.50%	NO
144	15" / RCP	1.25%	NO
145	15" / RCP	1.25%	NO
200	15" / RCP	0.30%	NO
205	15" / RCP	0.30%	NO

SOIL RETENTION BLANKET MULCH TYPE 5

DITCH	LENGTH	B1	A	B2	AREA (SY)
8	385	4.12	2	4.12	438
9	185	4.12	2	4.12	237
10	355	4.12	2	4.12	404
11	202	3.16	-	3.16	142
12	280	3.16	-	3.16	197
13	218	3.16	2	3.16	202
14	202	4.12	2	4.12	230
15	218	4.12	2	4.12	248
16	206	4.12	2	4.12	235
18	89	4.12	10	4.12	181

R-4 RIPRAP SCHEDULE

RR	RIPRAP LIMITS (FT.) W	RIPRAP LIMITS (FT.) L	AREA S.Y.
133	10	11.25	12.5
139	10	11.25	12.5
141	10	11.25	12.5
143	10	11.25	12.5
145	10	11.25	12.5
205	10	11.25	12.5

NOTES:

1. SEE CONSTRUCTION DETAIL (BASE BID) SHEET (DT-03BB) FOR DRAINAGE DETAILS

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT T200507303 | COUNTY SUSSEX | BRIDGE NO. X | DESIGNED BY: RK&K | CHECKED BY: RK&K

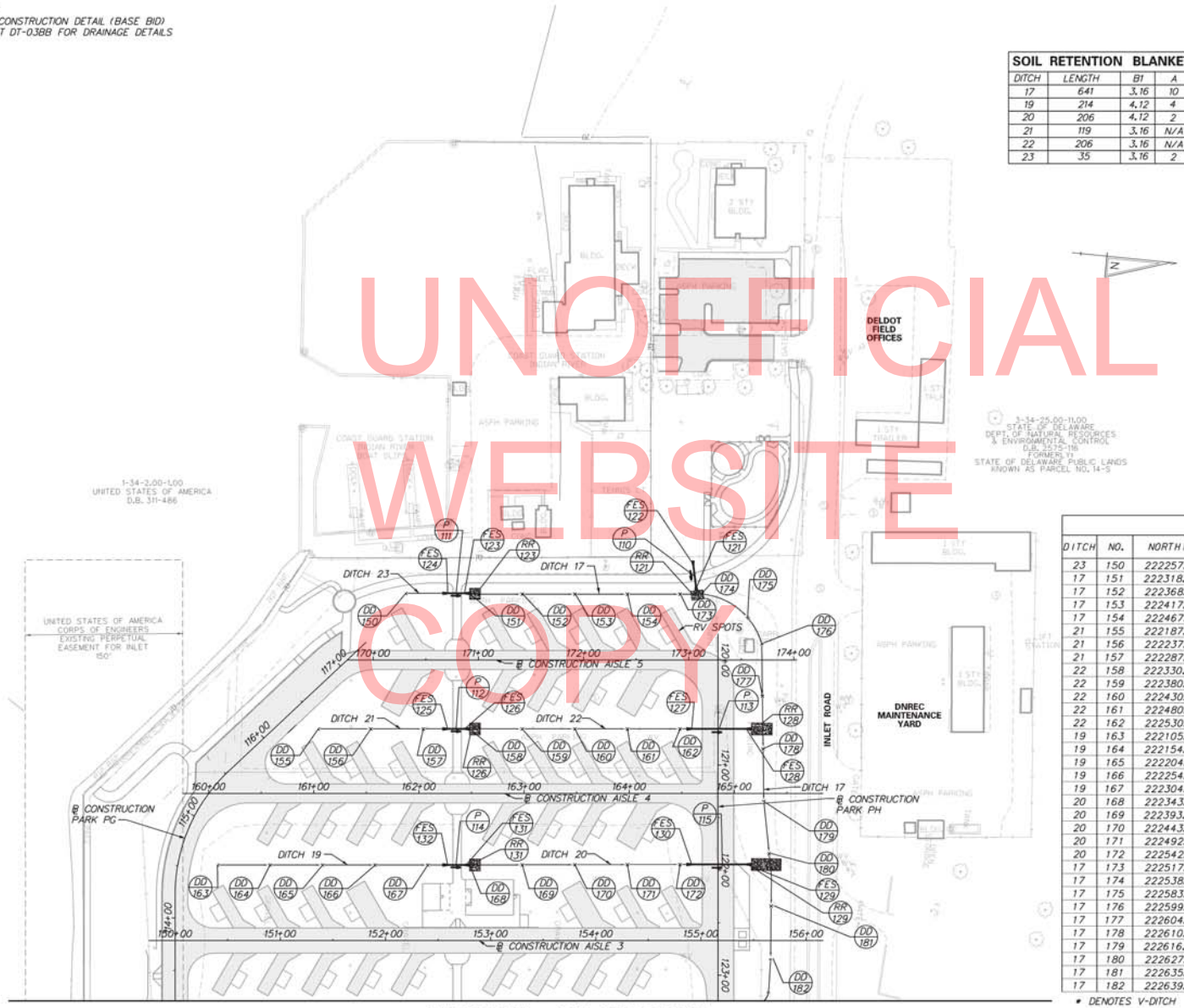
DRAINAGE PLAN (BASE BID)

DR04 | SHEET NO. 34 | TOTAL SHTS. 282

\\BAL-SRV02\V20819\20819.018\20 IRP\CADD\CONTRACT\NUMBER\PLANS\DR04.IRP.DGN

NOTES:

1. SEE CONSTRUCTION DETAIL (BASE BID) SHEET DT-03BB FOR DRAINAGE DETAILS



MATCHLINE – SEE SHEET DR04

SOIL RETENTION BLANKET MULCH TYPE 5					
DITCH	LENGTH	B1	A	B2	AREA (SY)
17	641	3.16	10	3.16	1162
19	214	4.12	4	4.12	291
20	206	4.12	2	4.12	235
21	119	3.16	N/A	3.16	84
22	206	3.16	N/A	3.16	145
23	35	3.16	2	3.16	33

R-4 RIPRAP SCHEDULE			
RR	RIPRAP LIMITS (FT.)		AREA
	W	L	S.Y.
121	8.50	11.25	10.6
123	10	11.25	12.5
126	10	11.25	12.5
128	19.50	11.25	24.4
129	28	11.25	35
131	11.25	11.25	12.5

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
120	15" / RCP	0.50%	NO
121	15" / RCP	0.30%	NO
122	15" / RCP	0.30%	NO
123	15" / RCP	0.30%	NO
124	15" / RCP	0.30%	NO
125	15" / RCP	0.50%	NO
126	15" / RCP	0.50%	NO
127	15" / RCP	0.50%	NO
128	15" / RCP	0.50%	NO
129	15" / RCP	0.50%	NO
130	15" / RCP	0.50%	NO
131	15" / RCP	0.50%	NO

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
110	15" / RCP	IV	20'	0.30%	5.40	5.34
111	15" / RCP	IV	16'	0.30%	6.05	5.97
112	15" / RCP	IV	16'	0.50%	6.70	6.62
113	15" / RCP	V	52'	0.50%	5.15	4.89
114	15" / RCP	IV	16'	0.50%	6.27	6.19
115	15" / RCP	V	52'	0.50%	5.06	4.80

DRAINAGE DITCH SCHEDULE								
DITCH	NO.	NORTHING	EASTING	ELEVATION	BOTTOM WIDTH (A)	LEFT SIDE SLOPE (B1)	RIGHT SIDE SLOPE (B2)	DEPTH (FT)
23	150	222257.72	755991.15	6.16	2'	3:1	3:1	1
17	151	222318.27	755985.16	5.97	2'	3:1	3:1	1
17	152	222368.02	755980.24	5.82	2'	3:1	3:1	1
17	153	222417.78	755975.31	5.67	2'	3:1	3:1	1
17	154	222467.54	755970.39	5.52	2'	3:1	3:1	1
21	155	222187.61	756127.76	7.31	*	3:1	3:1	0.5
21	156	222237.36	756122.84	7.06	*	3:1	3:1	0.5
21	157	222287.12	756117.91	6.81	*	3:1	3:1	0.5
22	158	222330.97	756113.57	6.59	*	3:1	3:1	0.5
22	159	222380.73	756108.65	6.35	*	3:1	3:1	0.5
22	160	222430.49	756103.73	6.12	*	3:1	3:1	1
22	161	222480.25	756098.81	5.88	*	3:1	3:1	1
22	162	222530.00	756093.89	5.65	*	3:1	3:1	1
19	163	222105.02	756266.05	7.38	3'	5:1	5:1	0.5
19	164	222154.78	756261.13	7.13	4'	4:1	4:1	0.5
19	165	222204.54	756256.21	6.88	4'	4:1	4:1	1
19	166	222254.30	756251.28	6.63	4'	4:1	4:1	1
19	167	222304.05	756246.36	6.38	4'	4:1	4:1	1
20	168	222343.72	756242.44	6.19	2'	4:1	4:1	1
20	169	222393.47	756237.39	5.85	2'	4:1	4:1	1
20	170	222443.21	756232.35	5.60	2'	4:1	4:1	1
20	171	222492.96	756227.30	5.35	2'	4:1	4:1	1
20	172	222542.70	756222.26	5.10	2'	4:1	4:1	1
17	173	222517.30	755965.47	5.37	2'	3:1	3:1	1
17	174	222538.12	755963.41	5.31	2'	3:1	3:1	1
17	175	222583.46	755981.35	5.16	2'	3:1	3:1	1
17	176	222599.40	756005.58	5.07	2'	3:1	3:1	1
17	177	222604.96	756055.27	4.93	10'	3:1	3:1	1
17	178	222610.51	756104.96	4.78	10'	3:1	3:1	1
17	179	222616.07	756154.65	4.63	10'	3:1	3:1	1
17	180	222627.54	756203.31	4.51	10'	3:1	3:1	1
17	181	222635.25	756252.61	4.28	10'	3:1	3:1	1
17	182	222639.41	756302.40	4.18	10'	3:1	3:1	1

* DENOTES V-DITCH

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	BRIDGE NO.	X
T200507303	DESIGNED BY: RK&K	
COUNTY		
SUSSEX	CHECKED BY: RK&K	

DRAINAGE PLAN (BASE BID)

DR05

SHEET NO. 35

TOTAL SHTS. 282

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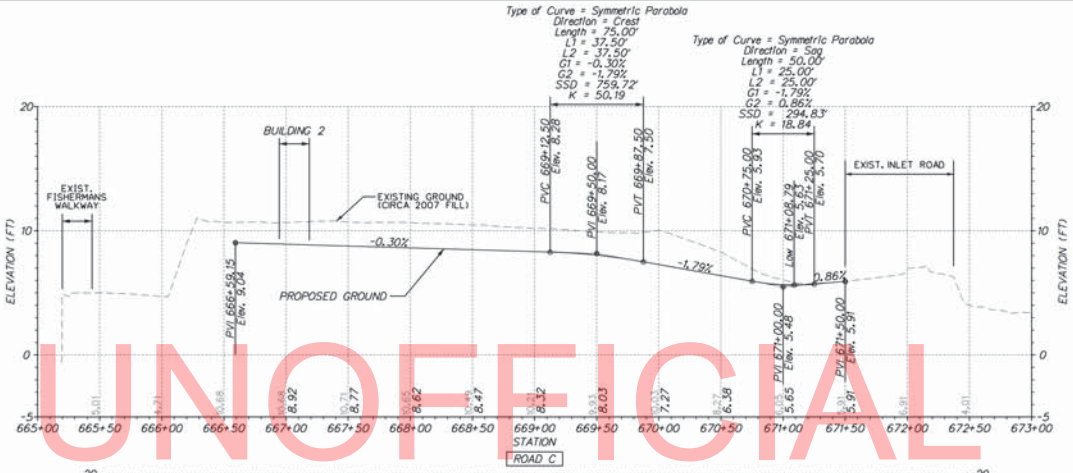

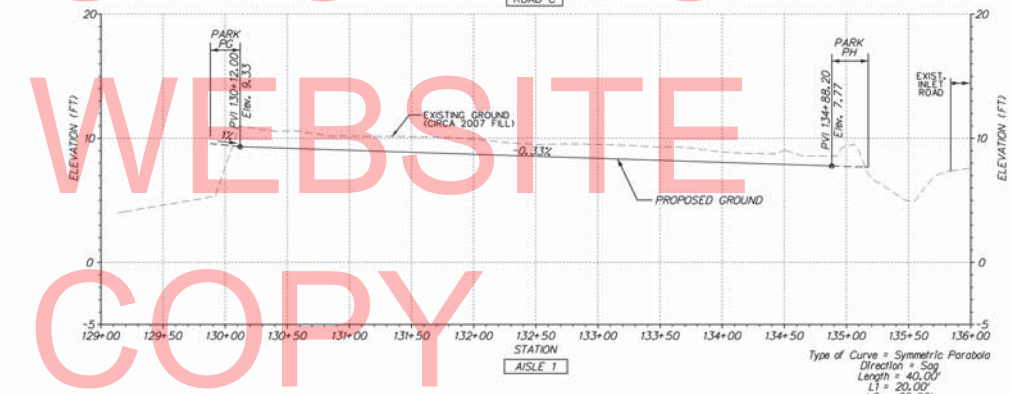

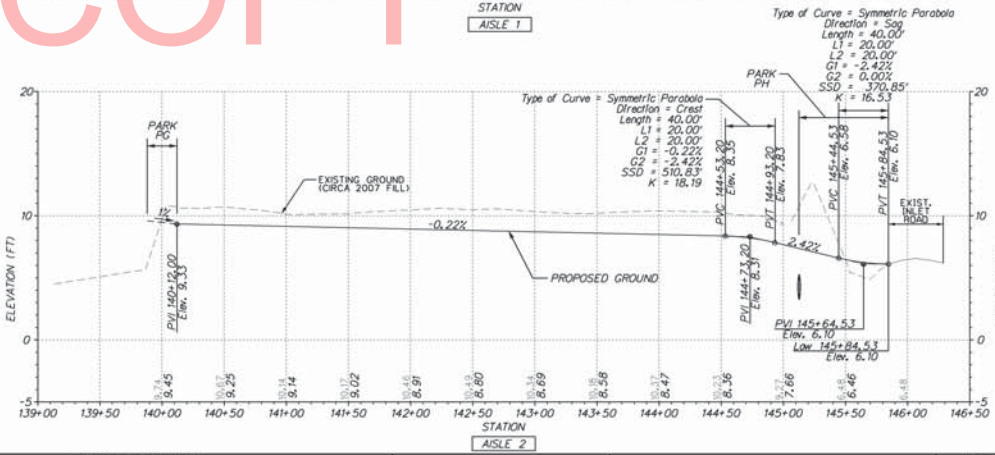

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VERTICAL SCALE FEET 0 5 10 15

PF01

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	BRIDGE NO.	X
T200507303	DESIGNED BY: RK&K	
COUNTY		
SUSSEX	CHECKED BY: RK&K	

PROFILES

SHEET NO. 36

TOTAL SHTS. 282

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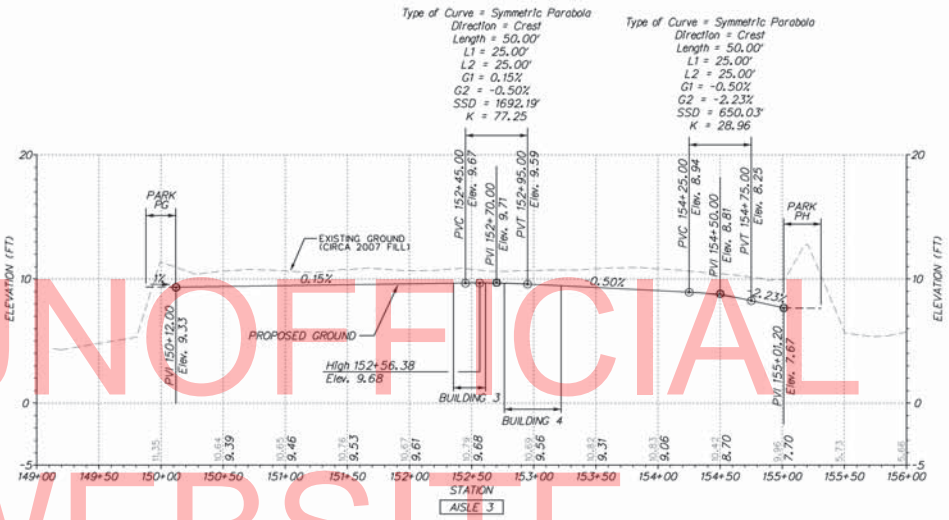

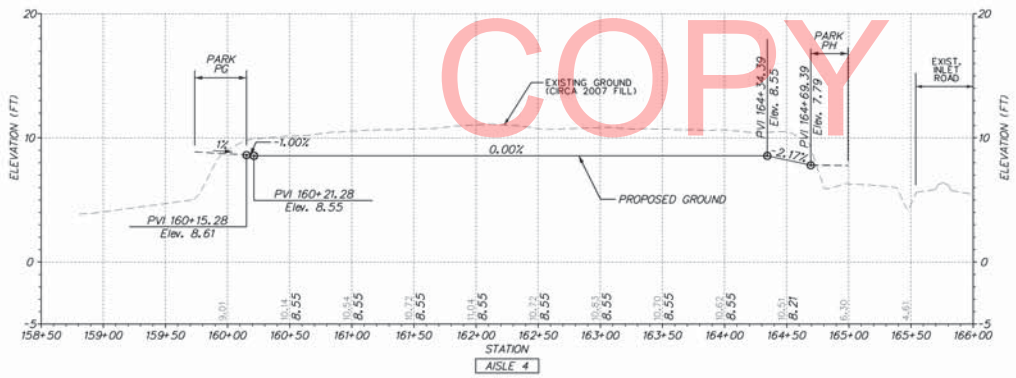

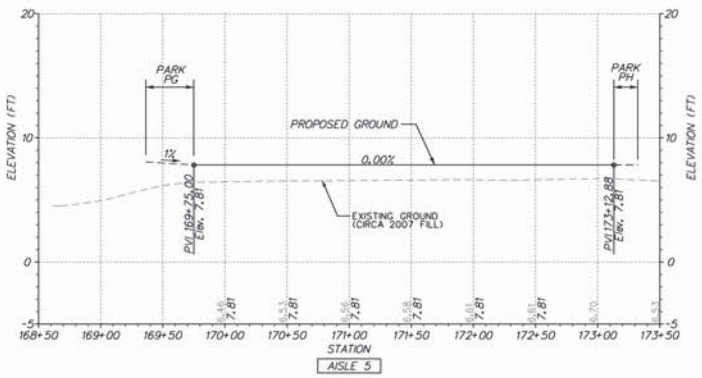

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VERTICAL SCALE FEET

PF02

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	BRIDGE NO.	X
T200507303	DESIGNED BY: RK&K	
COUNTY		
SUSSEX	CHECKED BY: RK&K	

PROFILES

SHEET NO. 37

TOTAL SHTS. 282

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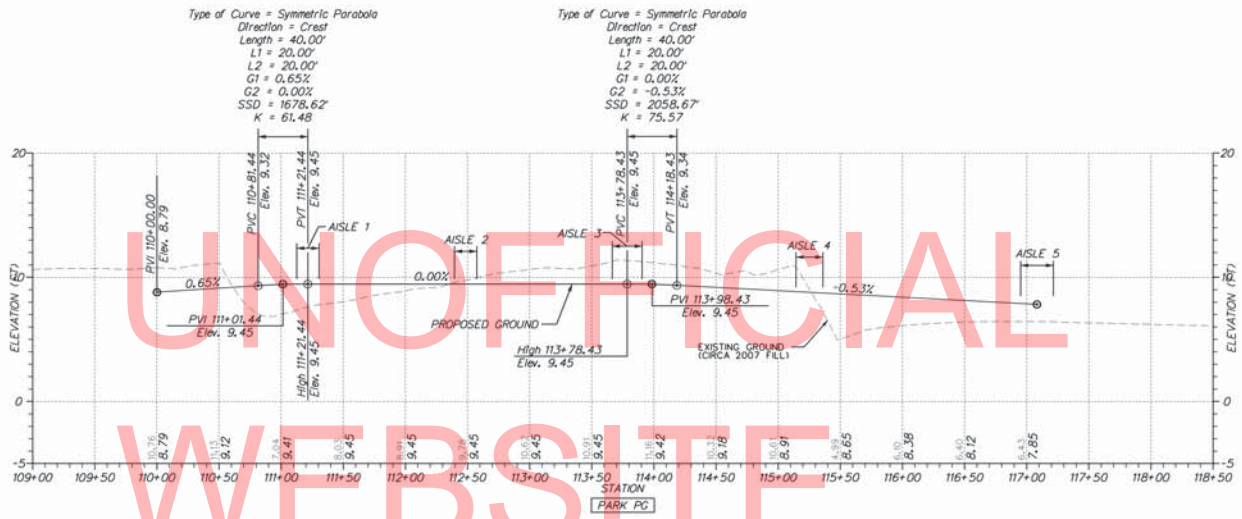

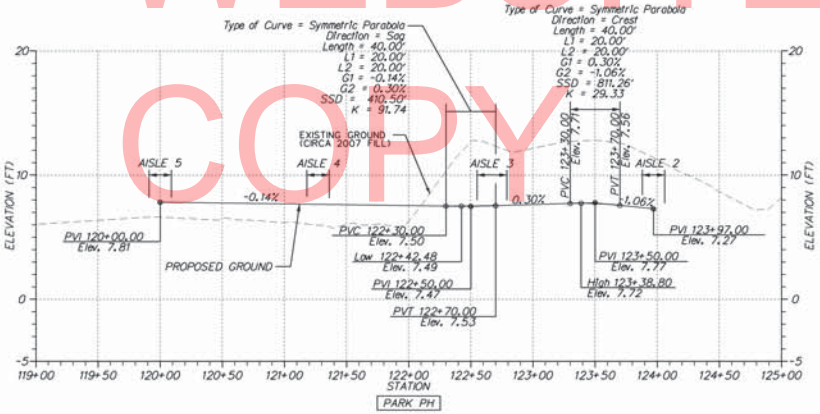

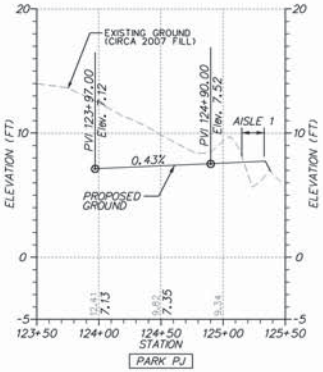

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VERTICAL SCALE FEET 0 5 10 15

PF03

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	BRIDGE NO.	X
T200507303	DESIGNED BY: RK&K	
COUNTY		
SUSSEX	CHECKED BY: RK&K	

PROFILES

SHEET NO.
38
TOTAL SHTS.
282

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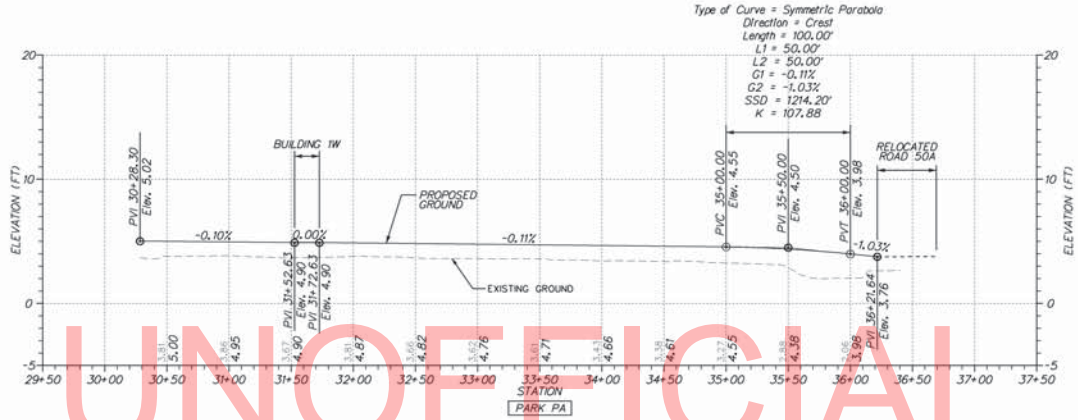

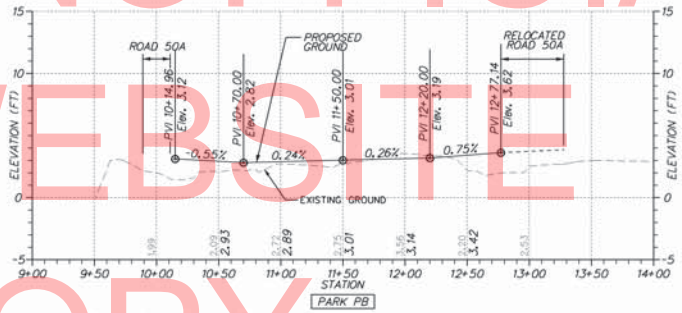

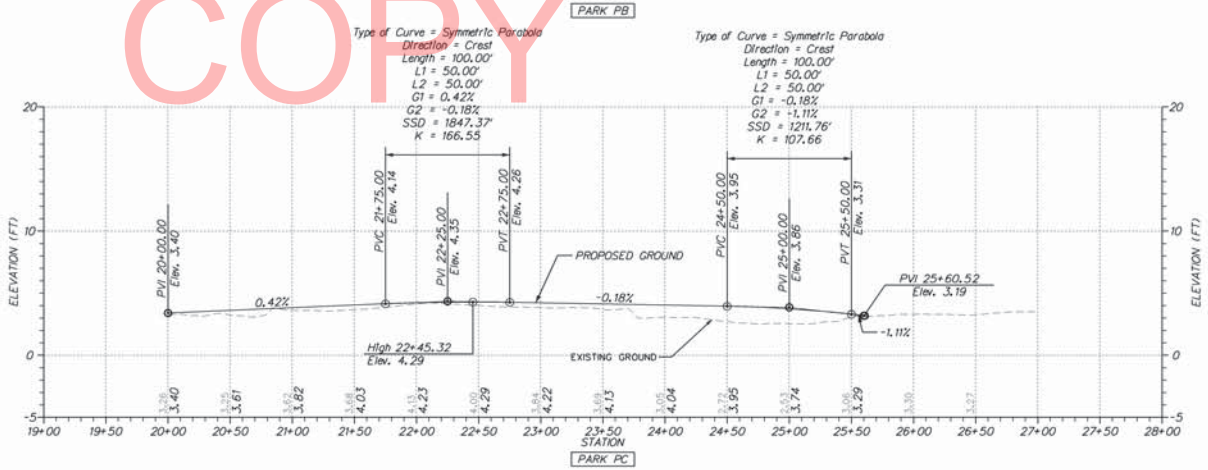

UNOFFICIAL WEBSITE COPY

VERTICAL SCALE FEET 15 10 5 0

PF04

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 90 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	BRIDGE NO.	X
T200507303	DESIGNED BY: RK&K	
COUNTY	CHECKED BY: RK&K	
SUSSEX		

PROFILES

SHEET NO.
39
TOTAL SHTS.
282

1/28/2013 11:54:27 AM
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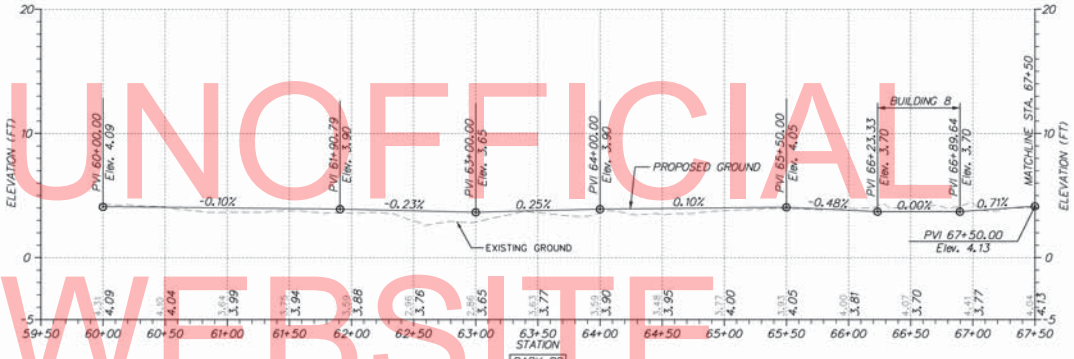

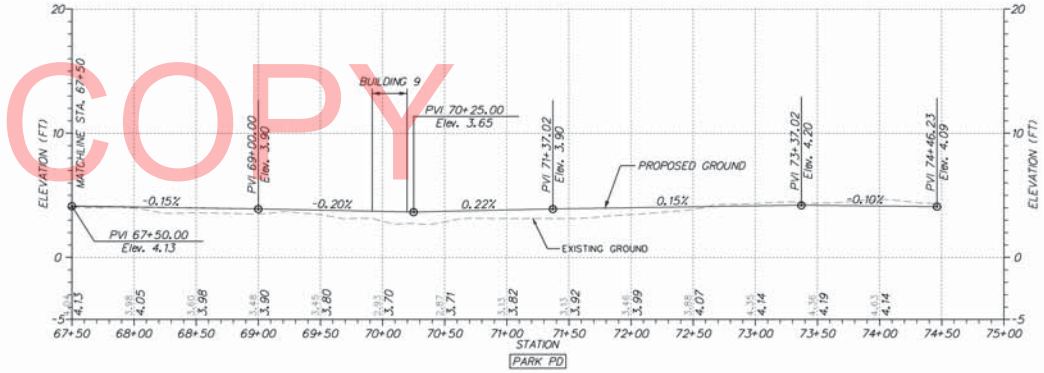

UNOFFICIAL WEBSITE COPY

VERTICAL SCALE FEET

PF05

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	T200507303
COUNTY	SUSSEX
BRIDGE NO.	X
DESIGNED BY: RK&K	
CHECKED BY: RK&K	

PROFILES

SHEET NO.	40
TOTAL SHTS.	282

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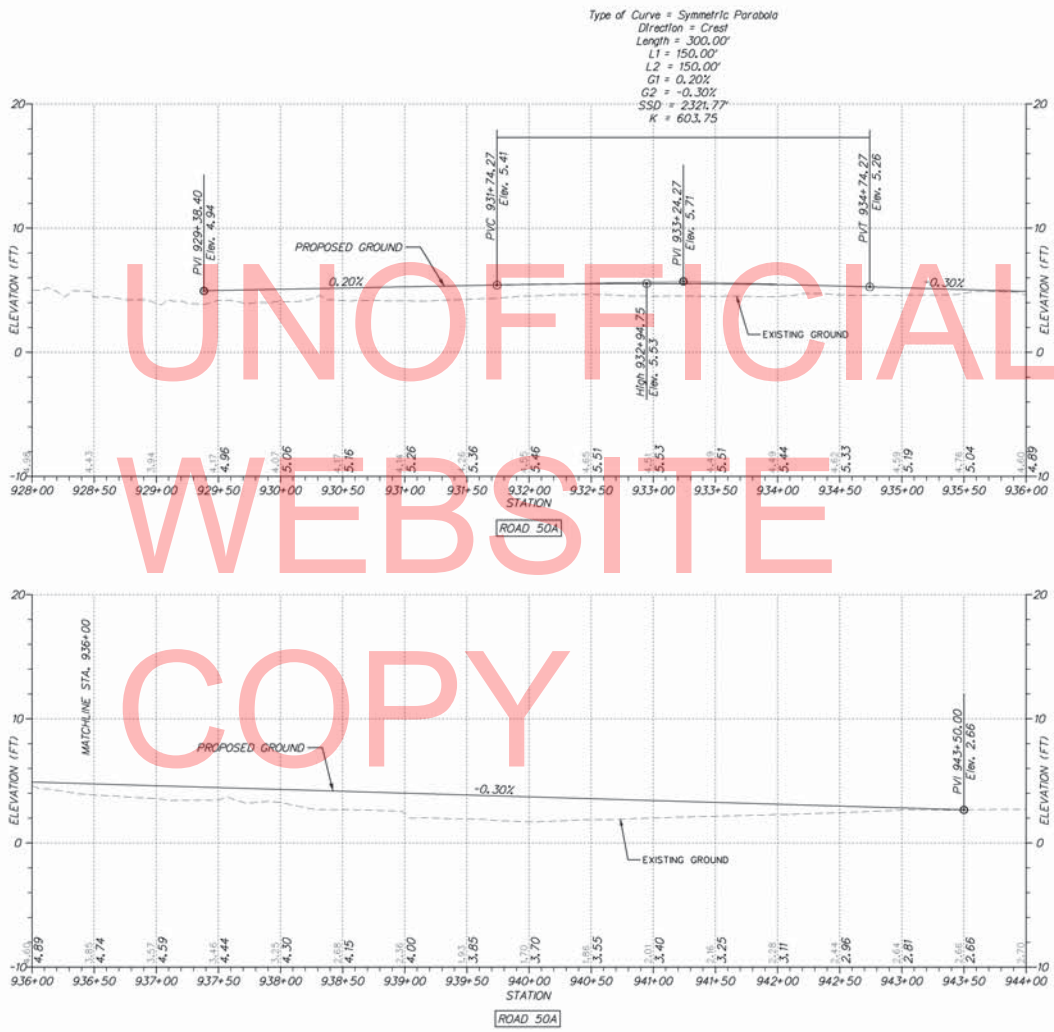

UNOFFICIAL WEBSITE COPY

VERTICAL SCALE FEET

PF06

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	BRIDGE NO.	X
T200507303	DESIGNED BY: RK&K	
COUNTY		
SUSSEX	CHECKED BY: RK&K	

PROFILES

SHEET NO. 41

TOTAL SHTS. 282

1/28/2013 11:06:03 AM
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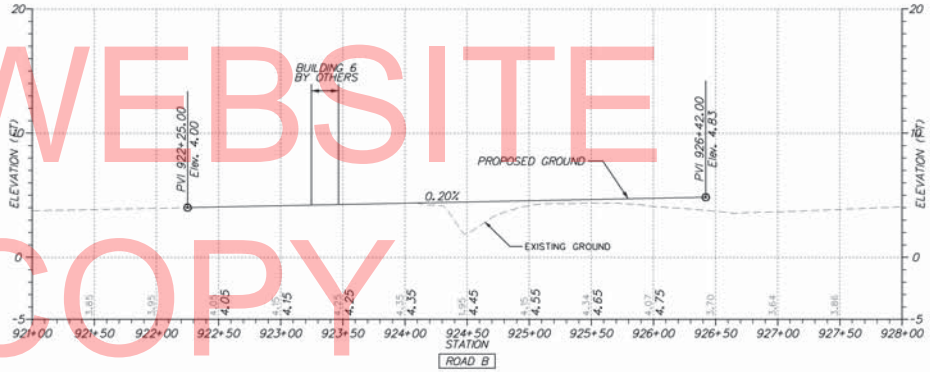

VERTICAL SCALE FEET 15 10 5 0

PF07

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	BRIDGE NO.	X
T200507303	DESIGNED BY: RK&K	
COUNTY		
SUSSEX	CHECKED BY: RK&K	

PROFILES

SHEET NO. 42

TOTAL SHTS. 282

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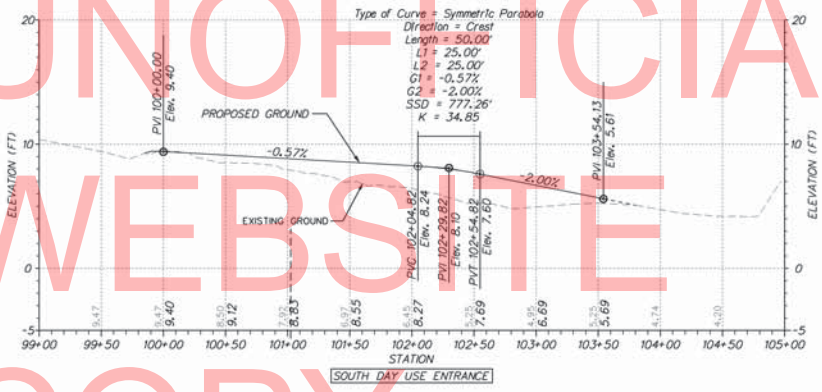

UNOFFICIAL WEBSITE COPY

VERTICAL SCALE FEET 15 10 5 0

PF08

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	BRIDGE NO.	X
T200507303	DESIGNED BY: RK&K	
COUNTY		
SUSSEX	CHECKED BY: RK&K	

PROFILES

SHEET NO. 43

TOTAL SHTS. 282

1/29/2013 7:43:44 PM
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NOTES:

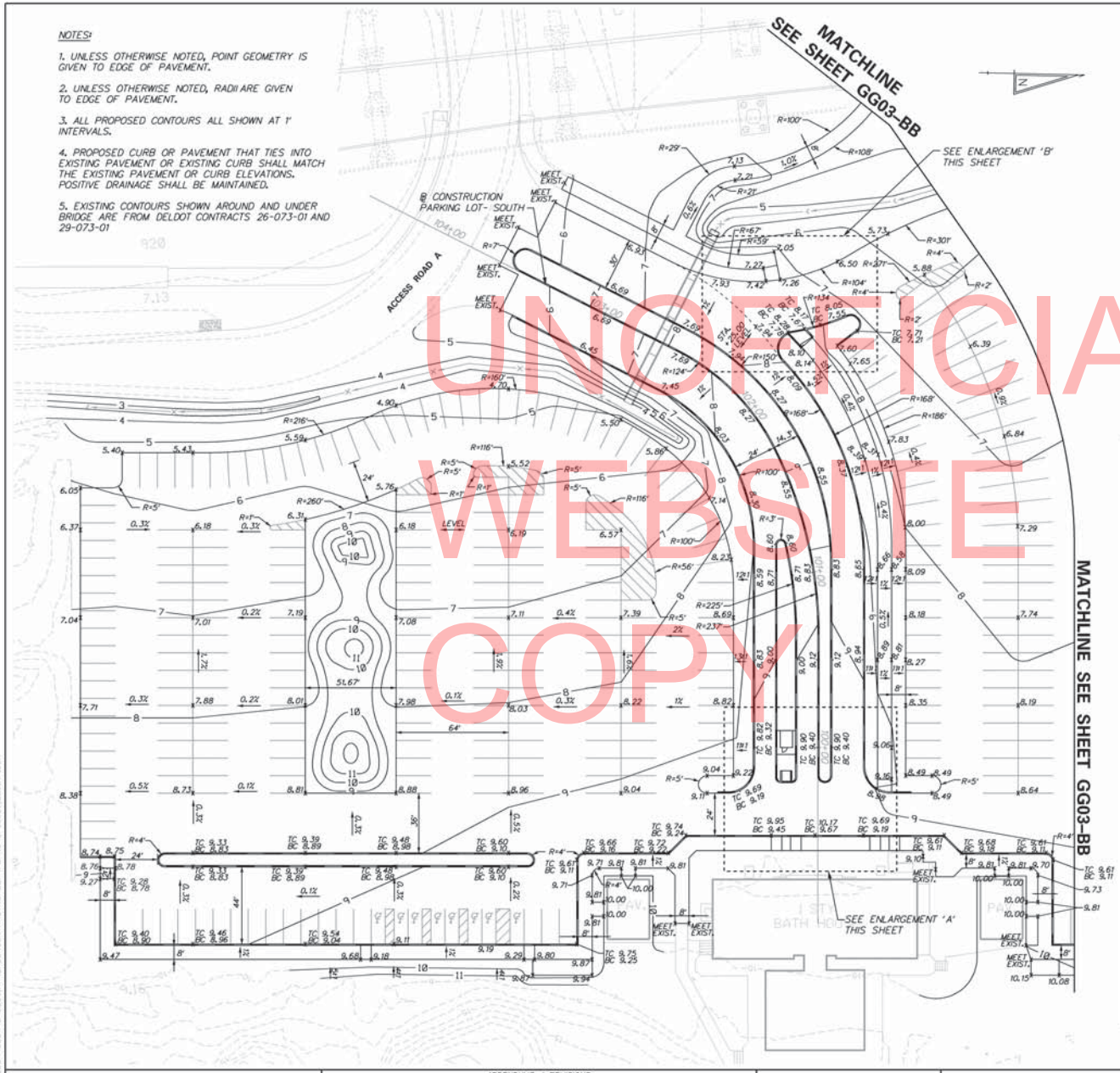
1. UNLESS OTHERWISE NOTED, POINT GEOMETRY IS GIVEN TO EDGE OF PAVEMENT.

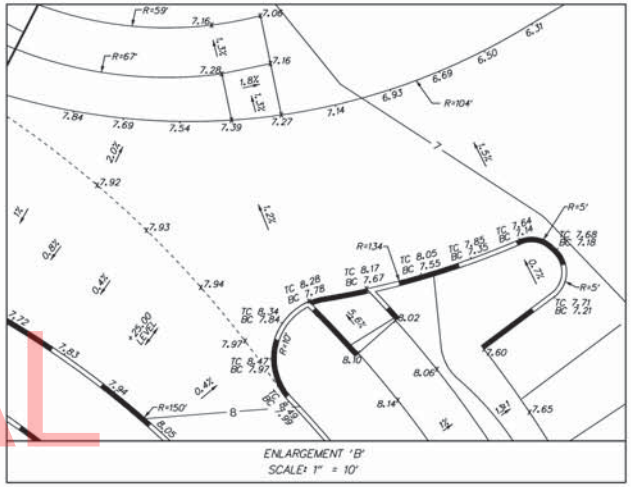
2. UNLESS OTHERWISE NOTED, RADII ARE GIVEN TO EDGE OF PAVEMENT.

3. ALL PROPOSED CONTOURS ALL SHOWN AT 1' INTERVALS.

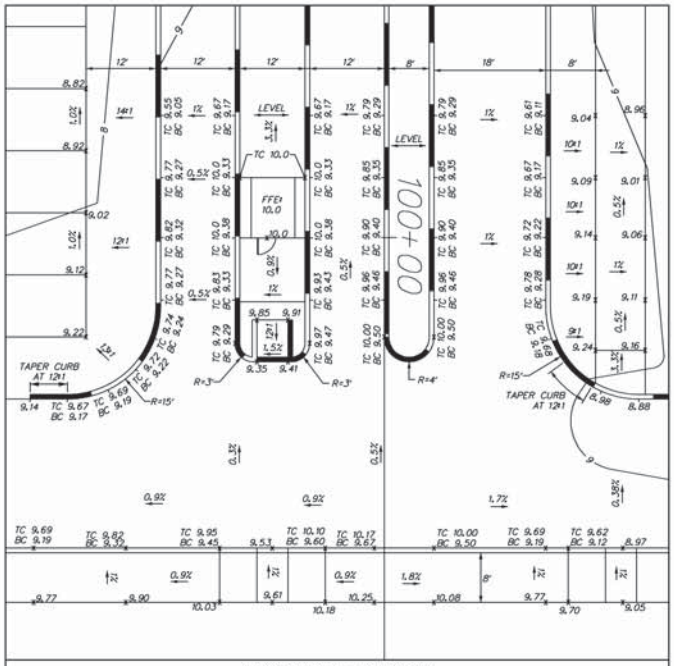
4. PROPOSED CURB OR PAVEMENT THAT TIES INTO EXISTING PAVEMENT OR EXISTING CURB SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS. POSITIVE DRAINAGE SHALL BE MAINTAINED.

5. EXISTING CONTOURS SHOWN AROUND AND UNDER BRIDGE ARE FROM DELDOT CONTRACTS 26-073-01 AND 29-073-01





ENLARGEMENT 'B'
SCALE: 1" = 10'



ENLARGEMENT 'A' - BUILDING 1W
SCALE: 1" = 10'

UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	GRADES AND GEOMETRICS GRADING PLAN (BASE BID)
				COUNTY SUSSEX	DESIGNED BY: RK&K	
					CHECKED BY: RK&K	

	GG01-BB
SHEET NO.	44
TOTAL SHTS.	282

2/1/2013 6:26:36 PM
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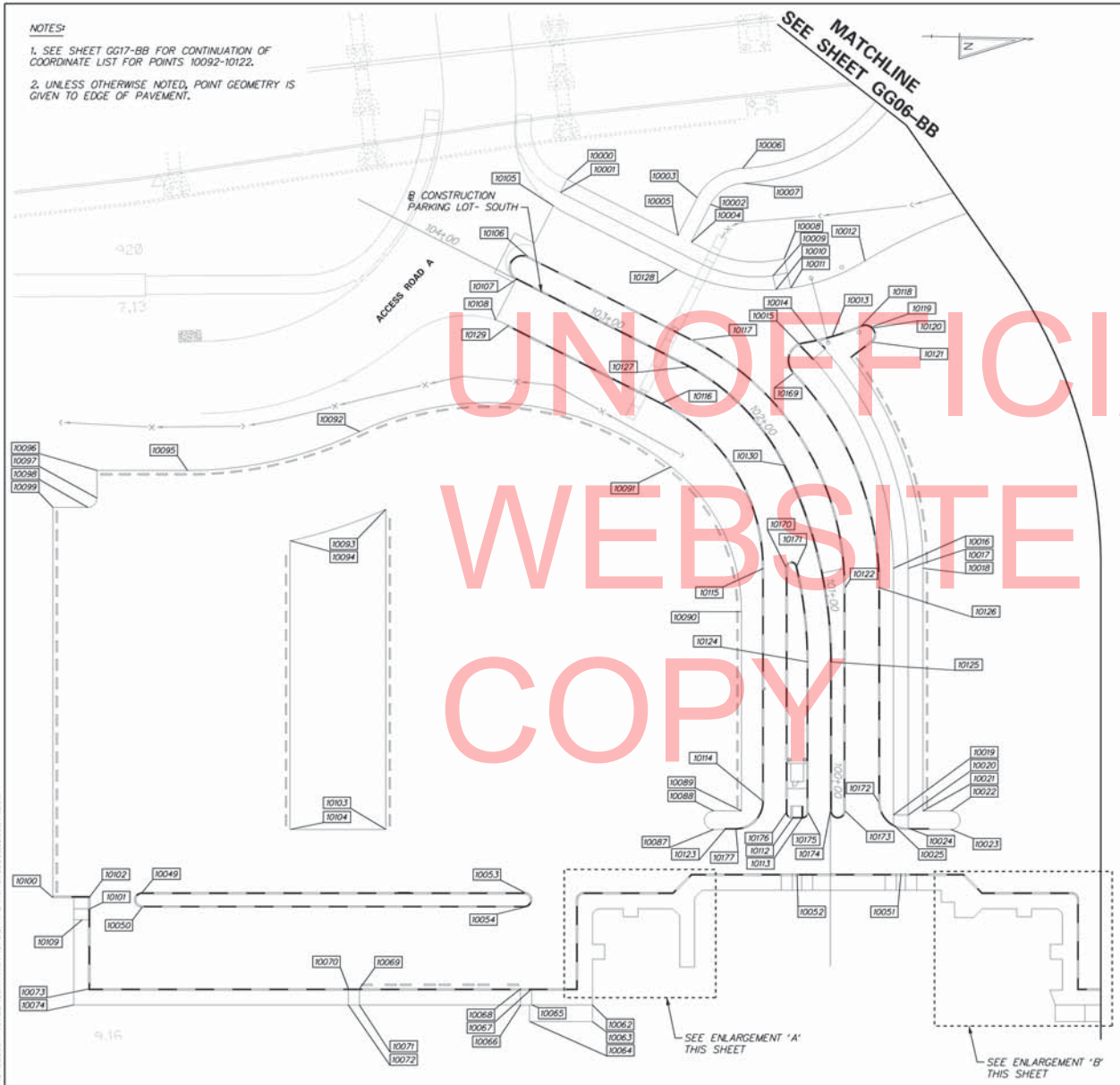
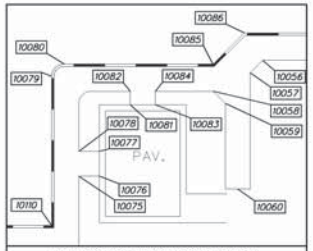
NOTES:

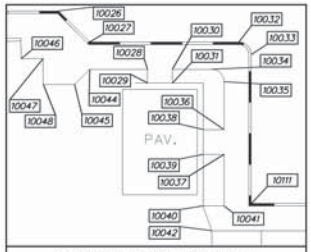
1. SEE SHEET GG17-BB FOR CONTINUATION OF COORDINATE LIST FOR POINTS 10092-10122.

2. UNLESS OTHERWISE NOTED, POINT GEOMETRY IS GIVEN TO EDGE OF PAVEMENT.





ENLARGEMENT 'A' - EXISTING SOUTH PAVILION
SCALE: 1" = 20'



ENLARGEMENT 'B' - EXISTING NORTH PAVILION
SCALE: 1" = 20'

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
10000	220680.43	757238.46	MEET EXIST.
10001	220676.96	757245.66	MEET EXIST.
10002	220758.11	757250.28	7.38
10003	220750.90	757246.82	7.30
10004	220748.20	757270.95	7.50
10005	220740.98	757267.49	7.43
10006	220774.95	757230.44	7.13
10007	220775.53	757238.42	7.21
10008	220798.64	757278.58	7.64
10009	220792.64	757288.09	7.08
10010	220794.38	757295.52	7.39
10011	220802.36	757294.52	7.27
10012	220842.01	757279.12	6.32
10013	220825.48	757319.76	7.55
10014	220816.67	757322.20	7.67
10015	220807.45	757324.42	7.78
10016	220861.09	757444.69	8.61
10017	220869.08	757444.51	8.53
10018	220877.08	757444.34	8.04
10019	220863.99	757577.93	9.24
10020	220871.98	757577.75	9.16
10021	220879.93	757575.44	8.49
10022	220894.93	757575.11	8.49
10023	220895.15	757585.11	8.49
10024	220872.14	757584.86	8.88
10025	220864.10	757583.20	8.98
10026	220902.67	757608.95	9.11
10027	220912.88	757618.73	9.18
10028	220931.70	757627.07	9.81
10029	220931.80	757631.47	MEET EXIST.
10030	220939.70	757626.90	9.81
10031	220939.79	757631.29	MEET EXIST.
10032	220960.87	757617.69	9.11
10033	220964.96	757621.60	9.11
10034	220952.32	757626.63	9.70
10035	220956.40	757630.54	9.73
10036	220956.74	757645.93	9.81
10037	220956.91	757653.93	9.81
10038	220950.12	757646.07	MEET EXIST.
10039	220950.29	757654.07	MEET EXIST.
10040	220950.52	757670.68	MEET EXIST.
10041	220957.27	757670.53	9.93
10042	220953.54	757678.61	MEET EXIST.
10043	221199.69	757177.73	10.15
10044	220913.07	757627.48	9.52
10045	220908.31	757632.45	9.38
10046	220890.93	757624.54	MEET EXIST.
10047	220898.01	757624.30	MEET EXIST.
10048	220898.28	757632.67	MEET EXIST.
10049	220459.32	757628.60	8.80

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
10050	220459.50	757636.60	8.80
10051	220868.80	757609.69	8.72
10052	220812.69	757610.91	9.53
10053	220665.76	757624.11	9.05
10054	220665.94	757632.11	9.05
10056	220761.64	757620.77	9.81
10057	220757.73	757624.86	9.83
10058	220745.93	757631.12	9.81
10059	220749.95	757634.96	9.74
10060	220754.55	757662.44	MEET EXIST.
10062	220703.82	757684.05	9.87
10063	220704.02	757693.04	9.94
10064	220670.16	757693.78	9.87
10065	220671.08	757684.76	9.80
10066	220665.08	757684.89	9.29
10067	220670.89	757676.01	9.22
10068	220664.89	757676.14	9.21
10069	220577.91	757678.03	9.09
10070	220571.92	757678.16	9.08
10071	220578.10	757686.78	9.18
10072	220572.11	757686.91	9.68
10073	220432.46	757681.20	8.90
10074	220423.90	757690.14	9.47
10075	220703.29	757659.45	9.81
10076	220709.91	757659.30	MEET EXIST.
10077	220709.73	757651.30	MEET EXIST.
10078	220703.12	757651.45	9.81
10079	220693.84	757627.50	9.11
10080	220697.75	757623.41	9.16
10081	220719.41	757636.09	MEET EXIST.
10082	220719.31	757631.70	9.81
10083	220727.40	757635.92	MEET EXIST.
10084	220727.31	757631.52	9.81
10085	220745.74	757622.37	9.22
10086	220755.52	757612.15	9.24
10087	220767.18	757587.89	9.11
10088	220766.96	757577.90	9.04
10089	220781.96	757577.57	9.22
10090	220779.62	757469.99	8.64
10091	220740.02	757392.45	5.86
10169	220804.55	757340.54	8.04
10170	220803.09	757445.36	8.60
10171	220808.99	757444.54	8.60
10172	220855.83	757570.96	9.29
10173	220837.94	757576.35	9.50
10174	220829.95	757576.53	9.50
10175	220817.97	757577.79	9.47
10176	220805.97	757578.05	9.29
10177	220779.18	757587.63	9.17

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT	BRIDGE NO.	X
T200507303	DESIGNED BY: RK&K	
COUNTY		
SUSSEX	CHECKED BY: RK&K	

GRADES AND GEOMETRICS STAKEOUT PLAN (BASE BID)

GG02-BB

SHEET NO. 45

TOTAL SHTS. 282

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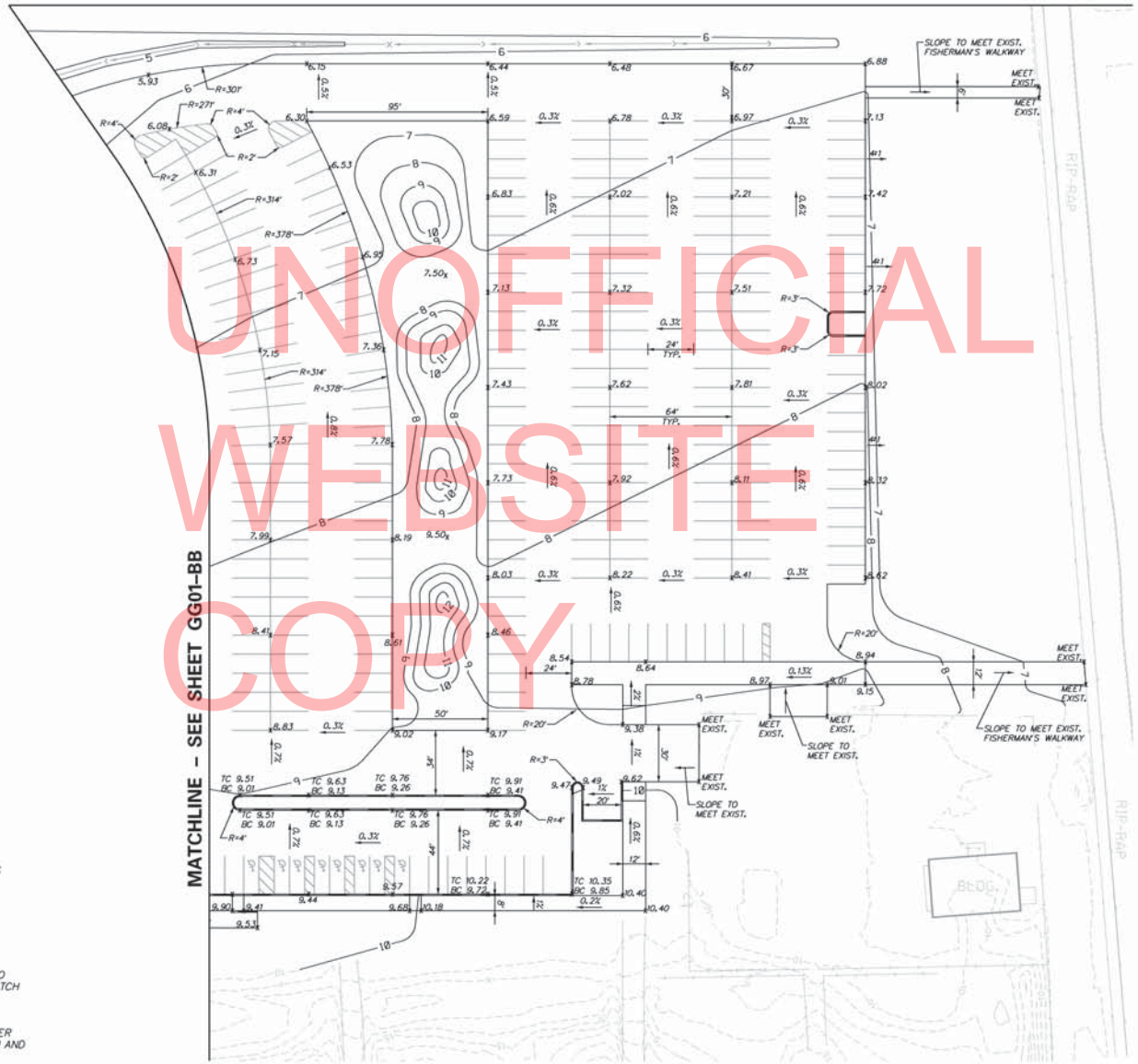
MATCHLINE – SEE SHEET GG03–BB



UNOFFICIAL WEBSITE COPY

NOTES:

1. UNLESS OTHERWISE NOTED, POINT GEOMETRY IS GIVEN TO EDGE OF PAVEMENT.

2. UNLESS OTHERWISE NOTED, RADII ARE GIVEN TO EDGE OF PAVEMENT.

3. ALL PROPOSED CONTOURS ALL SHOWN AT 1' INTERVALS.

4. PROPOSED CURB OR PAVEMENT THAT TIES INTO EXISTING PAVEMENT OR EXISTING CURB SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS. POSITIVE DRAINAGE SHALL BE MAINTAINED.

5. EXISTING CONTOURS SHOWN AROUND AND UNDER BRIDGE ARE FROM DELDOT CONTRACTS 26-073-01 AND 29-073-01

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	GRADES AND GEOMETRICS GRADING PLAN (BASE BID)	SHEET NO. GG03-BB	
				COUNTY SUSSEX	DESIGNED BY: RK&K		46	
					CHECKED BY: RK&K		TOTAL SHTS. 282	

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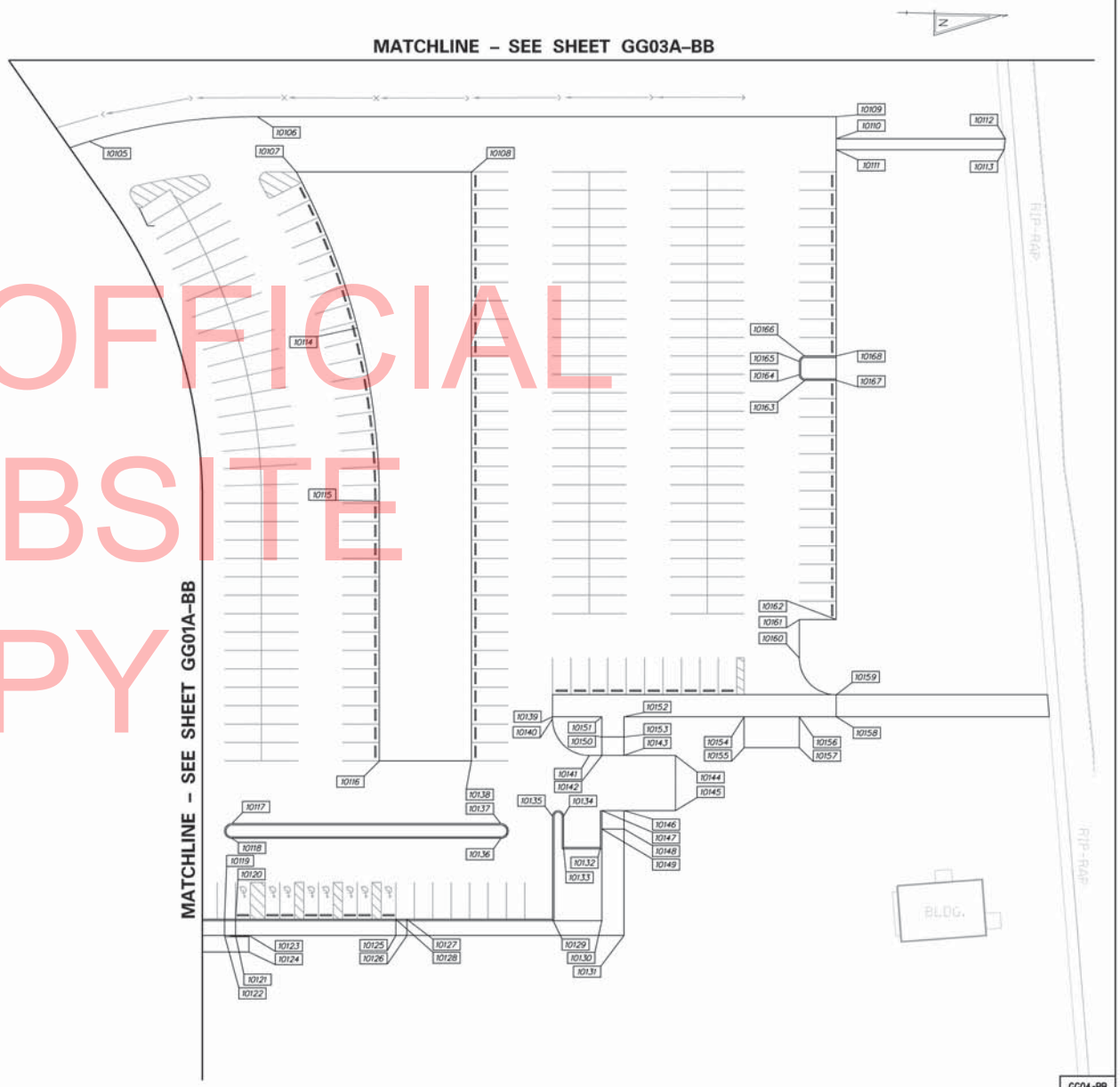
COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
10105	220907.41	757248.14	5.85
10106	220998.42	757232.78	6.04
10107	221020.16	757262.31	6.30
10108	221115.13	757260.25	6.59
10109	221312.43	757225.95	6.88
10110	221312.70	757237.94	6.98
10111	221312.83	757243.94	7.03
10112	221404.42	757235.95	MEET EXIST.
10113	221403.94	757241.96	MEET EXIST.
10114	221055.09	757346.32	7.06
10115	221069.04	757440.16	7.85
10116	221072.11	757581.26	9.02
10117	220992.87	757616.99	9.01
10118	220993.04	757624.99	9.01
10119	220990.00	757669.07	9.32
10120	220996.00	757668.94	9.34
10121	220996.19	757677.68	9.90
10122	220990.19	757677.81	9.41
10123	221003.39	757677.53	9.43
10124	221003.58	757686.53	9.53
10125	221083.17	757675.79	9.68
10126	221089.16	757675.66	10.18
10127	221088.97	757666.91	9.65
10128	221082.98	757667.04	9.60
10129	221167.96	757665.19	9.85
10130	221194.72	757665.36	10.14
10131	221206.89	757673.10	10.40
10132	221193.10	757625.64	9.72
10133	221173.11	757626.07	9.52
10134	221172.74	757609.08	9.49
10135	221166.74	757609.21	9.47
10136	221139.00	757621.81	9.45
10137	221138.83	757613.82	9.45
10138	221122.10	757580.17	9.17
10139	221165.56	757555.22	8.78
10140	221165.58	757556.22	8.86
10141	221186.01	757575.78	9.31
10142	221192.76	757575.63	9.38
10143	221204.76	757575.37	9.78
10144	221232.75	757574.76	10.02
10145	221233.41	757604.76	10.02
10146	221205.41	757605.37	9.75
10147	221193.42	757605.63	9.62
10148	221205.63	757615.36	10.24
10149	221193.63	757615.62	10.17
10150	221192.55	757565.64	9.02
10151	221192.61	757554.64	8.74
10152	221204.30	757554.38	8.78
10153	221204.54	757565.38	9.06
10154	221269.54	757552.96	8.97
10155	221269.90	757569.75	9.28
10156	221299.53	757552.31	9.01
10157	221299.90	757569.09	9.28
10158	221319.53	757551.87	9.15
10159	221319.27	757539.87	8.94
10160	221298.83	757520.31	8.73
10161	221298.38	757499.49	8.59
10162	221318.38	757499.05	8.62
10163	221298.55	757369.46	7.80
10164	221295.49	757366.52	7.78
10165	221295.33	757359.35	7.83
10166	221298.27	757356.29	7.79
10167	221315.55	757369.09	7.85
10168	221315.26	757355.92	7.77

NOTES:

1. UNLESS OTHERWISE NOTED, POINT GEOMETRY IS GIVEN TO EDGE OF PAVEMENT.



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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

CONTRACT T200507303 | COUNTY SUSSEX | BRIDGE NO. X | DESIGNED BY: RK&K | CHECKED BY: RK&K

GRADES AND GEOMETRICS STAKEOUT PLAN (BASE BID)

GG04-BB | SHEET NO. 47 | TOTAL SHTS. 282

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