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

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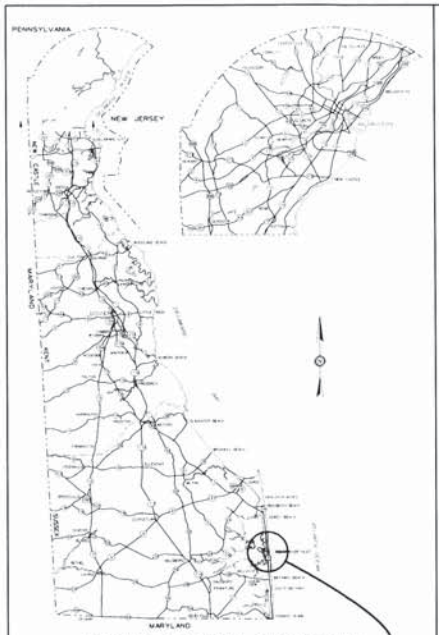
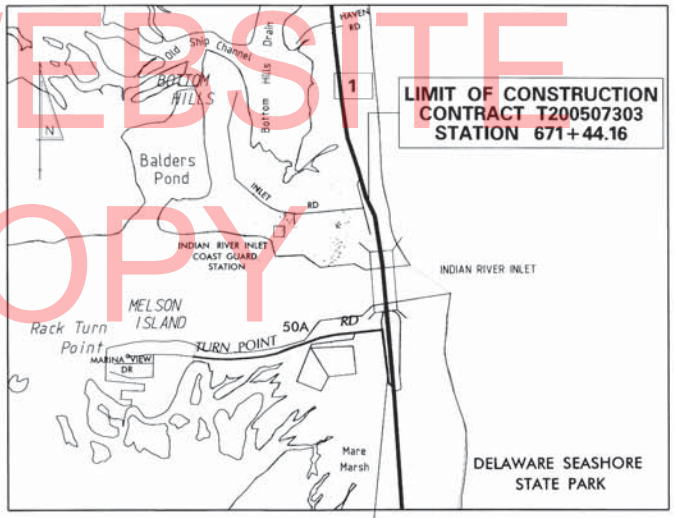


GENERAL LOCATION OF CONTRACT



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
23-073-01	DP 114 ON SR 1 OVER INDIAN RIVER INLET
29-073-01	DP 114 ON INDIAN RIVER INLET ROADWAY AND APPROACHES, PHASE 1 AND BRIDGE TO MOATION

PREPARED BY
THE CONSULTING FIRM OF
RUMMEL, KLEPPER & KAHL, LLP
RESPONSIBLE SHEETS: 1-181
SEAL
RECOMMENDED Nancy R. Bingham DATE 2.8.13

PREPARED BY
THE CONSULTING FIRM OF
BECKER MORGAN GROUP
RESPONSIBLE SHEETS: 182-282
WAYNE J. SHADD NO. 3985 STATE OF DELAWARE REGISTERED ARCHITECT
SEAL
RECOMMENDED DATE 2-17-13

RECOMMENDED
SQUAD MANAGER, CONSTRUCTION DATE 3/11/13
GROUP ENGINEER, CONSTRUCTION DATE 3/11/2013
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS (CONSTRUCTION) DATE

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

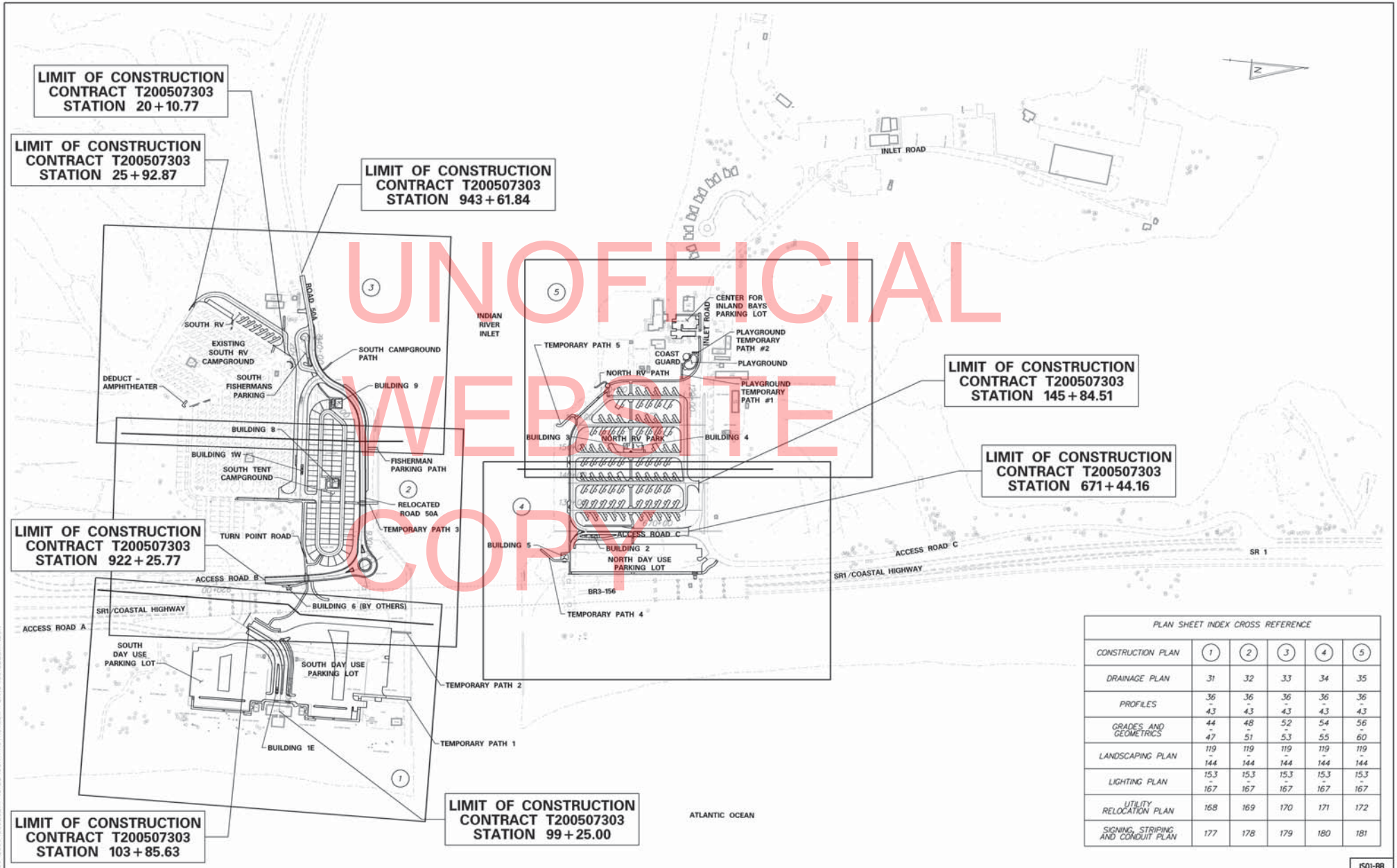
RECOMMENDED
SQUAD MANAGER, TRANSPORTATION SOLUTIONS (PROJECT DEVELOPMENT OR BRIDGE DESIGN)
DATE
SEAL

RECOMMENDED
Douglas Polk
BRIDGE DESIGN ENGINEER
DATE March 19, 2013
DOUGLAS A. POLK No. 11450 PROFESSIONAL ENGINEER
SEAL

RECOMMENDED
GROUP ENGINEER, PROJECT DEVELOPMENT
DATE
SEAL

RECOMMENDED
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS
DATE March 20, 2013
BARRY M. SNYDER REGISTERED No. 10774 DELAWARE PROFESSIONAL ENGINEER
SEAL

APPROVED
Nichole Dunkart
CHIEF ENGINEER
DATE 27 March 2013
NICHOLE M. DUNKART REGISTERED No. 9889 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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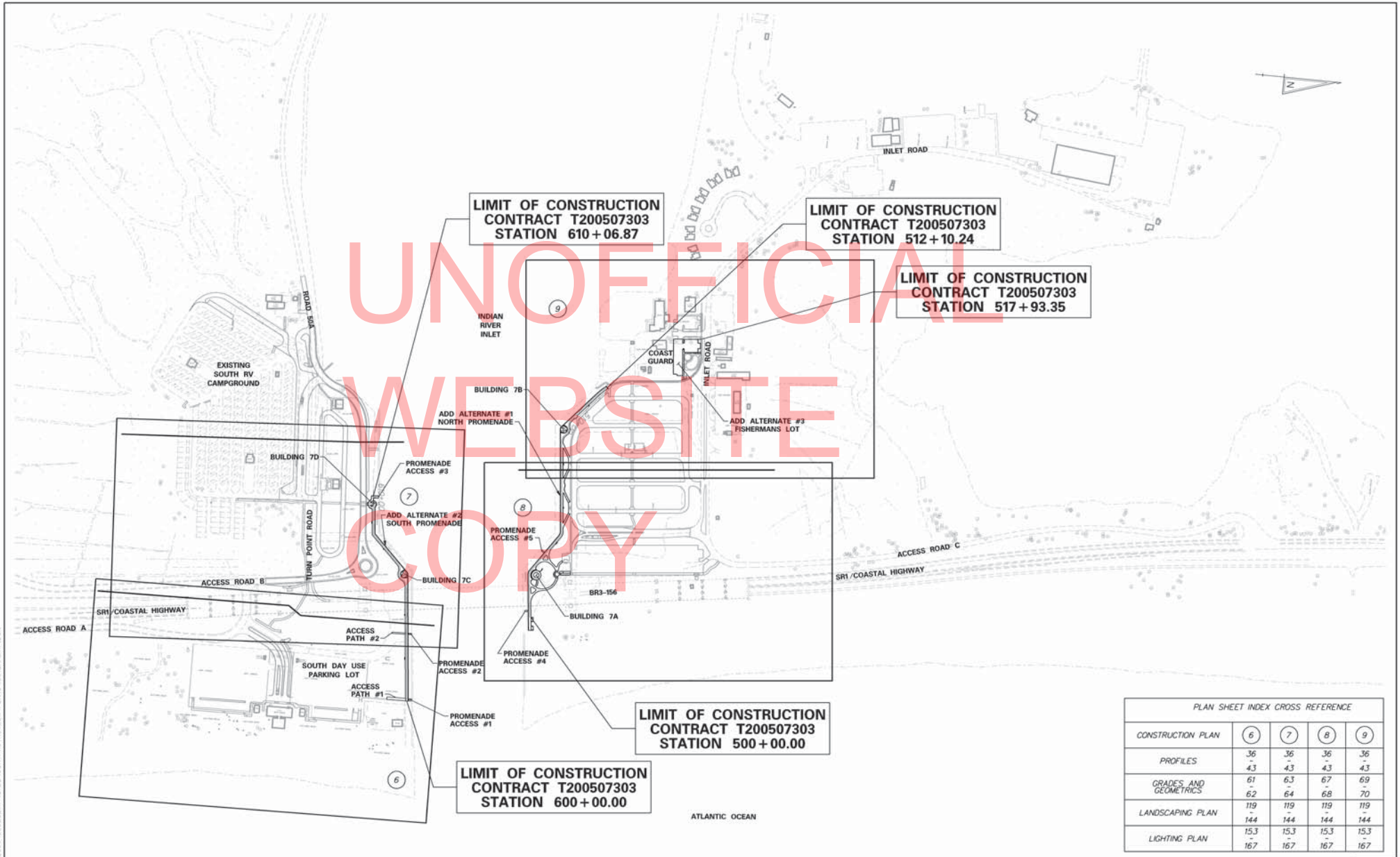

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DELAWARE DEPARTMENT OF TRANSPORTATION

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. THE CONTRACTOR SHALL GIVE TWO (2) WEEKS NOTICE TO THE PROPERTY OWNER WHEN ANY FIXTURE, SHRUB OR OTHER OBJECT MUST BE REMOVED FROM THE RIGHT OF WAY OR EASEMENT AREA. IF THE OWNER HAS NOT ATTEMPTED TO SALVAGE THIS PROPERTY, THE CONTRACTOR SHALL REMOVE IT WITHOUT OBLIGATION. COMPENSATION SHALL BE INCIDENTAL TO THE CONTRACT.

3. THE ENDS OF ALL CURBS SHALL BE DEPRESSED FLUSH WITH THE PAVEMENT AT A RATIO OF TWELVE TO ONE (12:1) UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

4. THE CONTRACTOR SHALL PROVIDE AND INSTALL PVC SLEEVES (4" INSIDE MINIMUM DIAMETER, 6" INSIDE MAXIMUM DIAMETER) IN PROPOSED CONCRETE SIDEWALKS, ISLANDS, AND MEDIANS FOR FUTURE TRAFFIC SIGN POSTS AS DIRECTED BY THE ENGINEER. THE LOWER END OF THE SLEEVE SHALL SIT ON THE TOP OF THE SUBBASE MATERIAL. THE COST SHALL BE INCIDENTAL TO THE CONTRACT.

5. STAGING AREAS - PROPER EROSION AND SEDIMENT CONTROL MEASURES AS DETERMINED BY THE ENGINEER SHALL BE INSTALLED IN ALL STAGING AREAS. ALL AREAS USED BY THE CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE CONTRACT. IF THE STAGING AREA IS PAVED, IT SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF THE AREA IS UNPAVED, IT SHALL BE RE-GRADED, TOPSOILED, SEEDED AND MULCHED IN ACCORDANCE WITH DELAWARE STANDARD SPECIFICATIONS 732, 734 AND 735, FOR TOPSOIL, SEED AND MULCH RESPECTIVELY, TO THE SATISFACTION OF THE ENGINEER. THE SEED SHALL ADHERE TO THE SPECIFICATIONS OF SECTION 734 FOR PERMANENT GRASS SEEDING - DRY GROUND. ALL COSTS ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH REESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE.

6. SITE REVIEWER - AN EROSION CONTROL SITE REVIEWER SHALL BE A PERSON FROM THE CONTRACTOR'S STAFF ASSIGNED TO EROSION AND SEDIMENT CONTROL IMPLEMENTATION AND MAINTENANCE AND SHALL BE REQUIRED ON SPECIFIC PROJECTS. THE NAME AND DNREC CERTIFICATION NUMBER OF EACH SITE REVIEWER SO REQUIRED SHALL BE SUBMITTED TO THE DEPARTMENT. 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
- SANITARY SAND TRAP
- TELEPHONE BOOTHS

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. THE CONTRACTOR SHALL ROUGH GRADE THE PHASE 1 AREA PLACING MATERIAL IN SEPARATE STOCKPILES FOR FUTURE USE ON THE PROJECT (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. EXCAVATED AGGREGATE MEETING THE REQUIREMENTS OF ITEM 302007 MAY BE USED ON THE PROJECT. IF THE CONTRACTOR CHOOSES TO USE THE EXCAVATED AGGREGATE, HE/SHE SHALL BE RESPONSIBLE FOR ALL EXPENSES FOR TESTING TO INSURE THE EXCAVATED MATERIAL MEETS THE REQUIREMENTS OF ITEM 302007. 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 PLACING THE RECYCLED CRUSHED CONCRETE SHALL BE PAID FOR UNDER ITEM 302513, CRUSHED P.C. CONCRETE BASE COURSE. THE COST OF THE GRADED AGGREGATE BASE COURSE SHALL BE PAID FOR UNDER ITEM 302007. 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 5 SEPTEMBER 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 5 SEPTEMBER 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.

	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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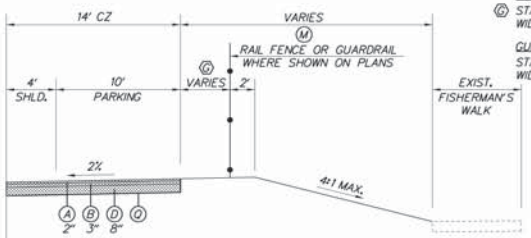
LEGEND

- (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:

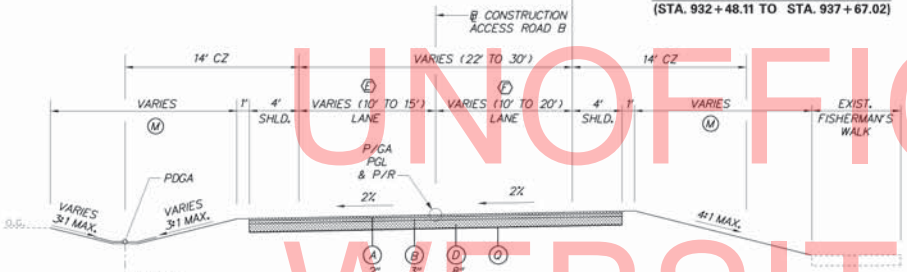
1. STONE DUST SHALL NOT BE MEASURED SEPARATELY AND SHALL BE CONSIDERED INCIDENTAL TO AND WILL BE INCLUDED IN THE COST OF 302007 GRADED AGGREGATE BASE COURSE, TYPE B.



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.

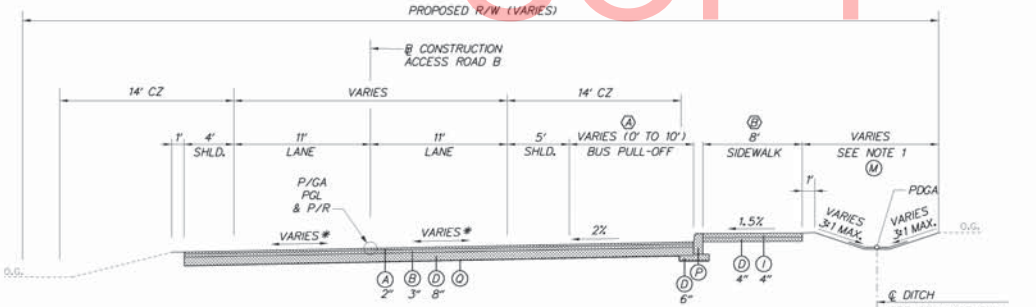
(F) STA. 930+02 ½ TO STA. 930+35.31
WIDTH VARIES 20' TO 15'
STA. 930+35.31 TO STA. 931+03.16
WIDTH VARIES 15' TO 11'
STA. 931+03.16 TO STA. 935+25.05
WIDTH= 11'
STA. 935+25.05 TO STA. 935+55.05
WIDTH VARIES 11' TO 13'
STA. 935+55.05 TO STA. 940+17.81
WIDTH= 13'
STA. 940+17.81 TO STA. 941+34.05
WIDTH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

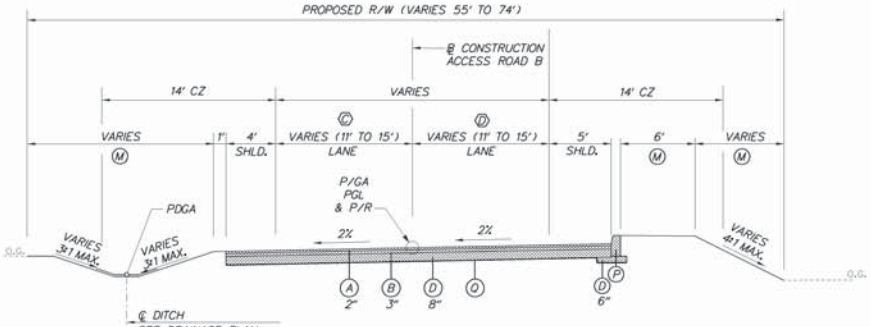
(D) STA. 924+04.95 TO STA. 924+98.61
LANE= 11'
STA 924+98.61 TO STA. 926+09.96
WIDTH VARIES 11' TO 15'



*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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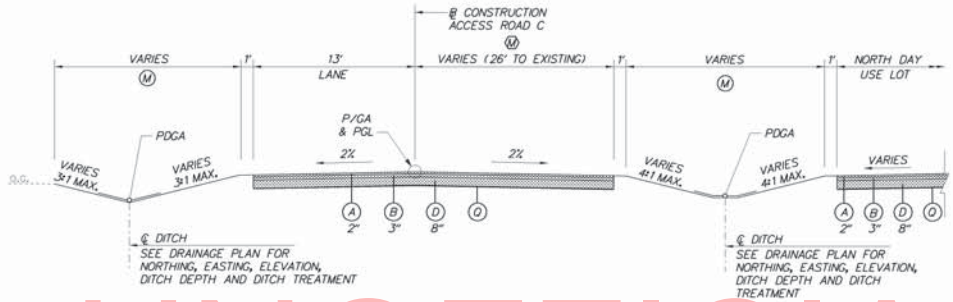
LEGEND

- (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

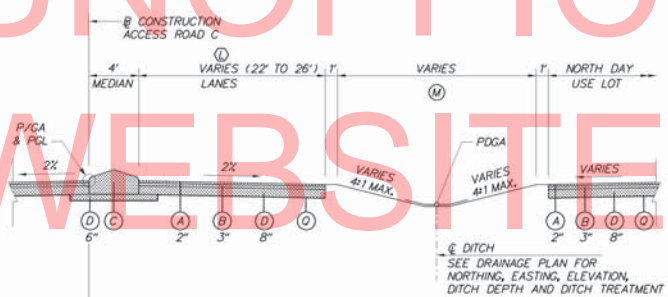
NOTE:
1. STONE DUST SHALL NOT BE MEASURED SEPARATELY AND SHALL BE CONSIDERED INCIDENTAL TO AND WILL BE INCLUDED IN THE COST OF 302007 GRADED AGGREGATE BASE COURSE, TYPE B.

(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'



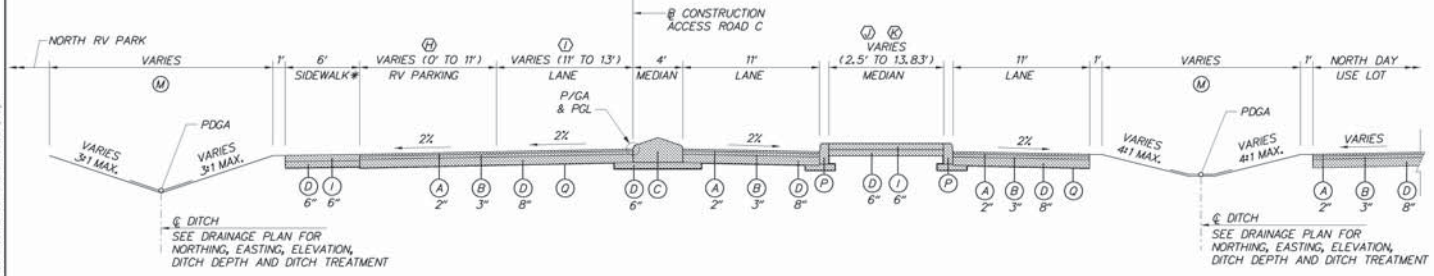
ACCESS ROAD C
(STA. 668+09.50 TO STA. 669+29.71)

(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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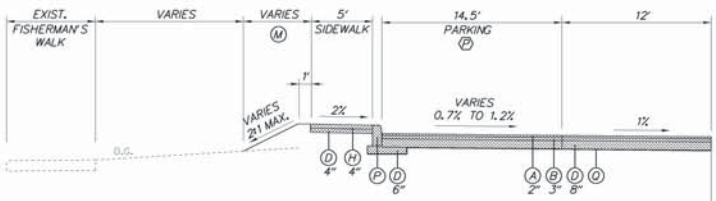
LEGEND

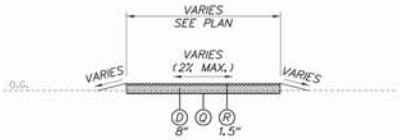
- (A) ITEM 401804 - WMA, TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
- (B) ITEM 401813 - WMA, TYPE B, 160 GYRATIONS, PG 70-22
- (C) ITEM 701026 - P.C.C. MONOLITHIC MEDIAN
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 705001 - P.C.C. SIDEWALK, 4"
- (I) ITEM 705002 - P.C.C. 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.

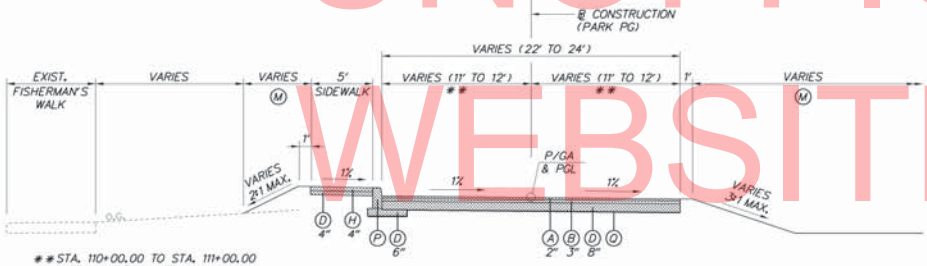


NORTH PARK – PARK PG
(STA. 115+20.97 TO 117+09)

(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'

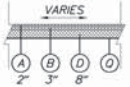


TEMPORARY PATH PAVEMENT SECTION

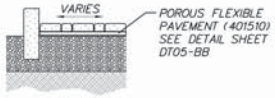


** STA. 110+00.00 TO STA. 111+00.00
WIDTH VARIES: 11' TO 12'
STA. 111+00.00 TO STA. 117+09+00
WICTH= 12

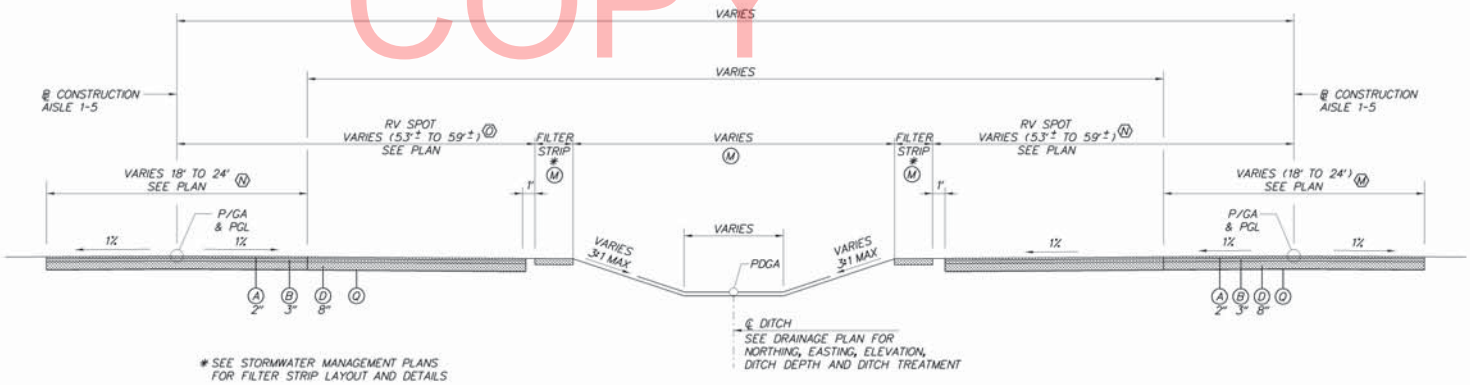
NORTH PARK – PARK PG
STA. 110+00.00 TO 117+09



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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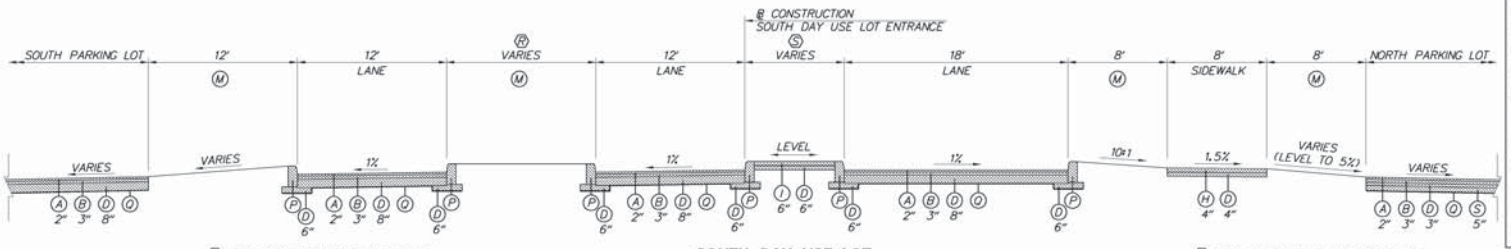
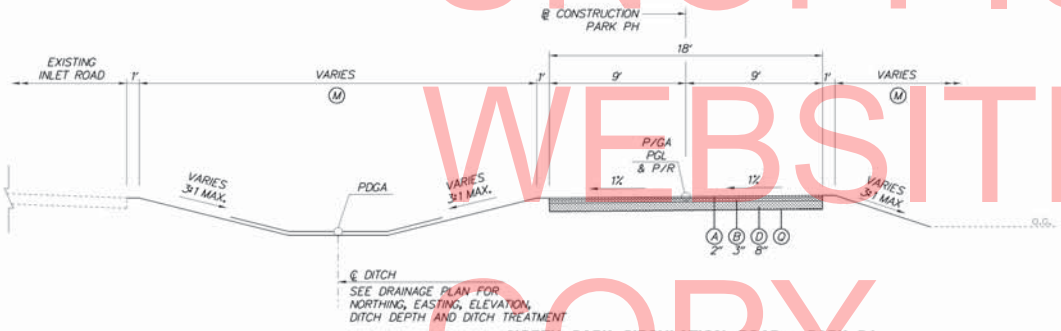


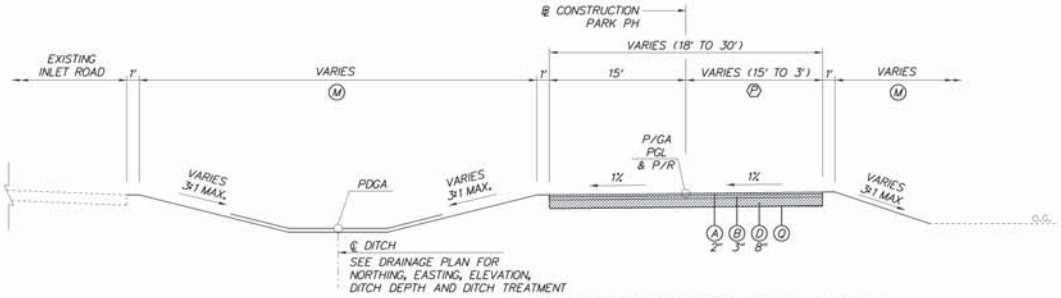
(R) STA. 99+80.00 TO STA 100+64.45
WIDTH= 12'
STA 100+64.45 TO STA. 101+22.88
WIDTH VARIES 12' TO 6'

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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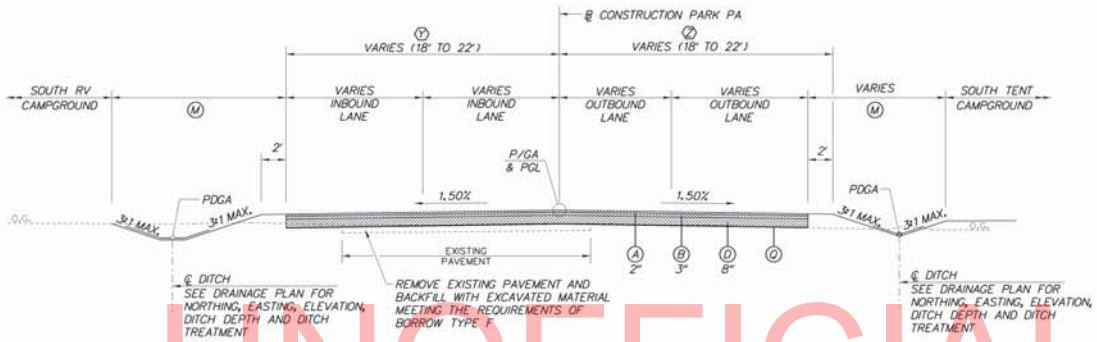
LEGEND

- (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

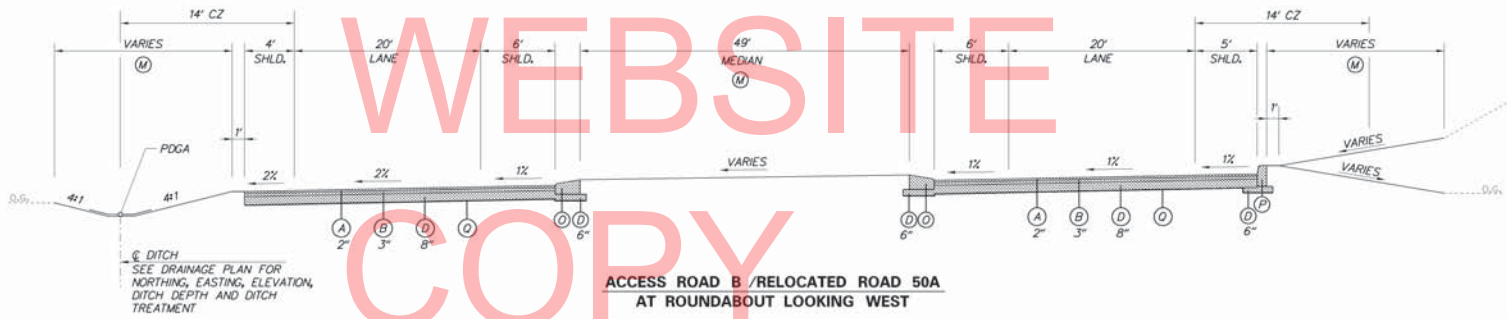
NOTE:
1. STONE DUST SHALL NOT BE MEASURED SEPARATELY AND SHALL BE CONSIDERED INCIDENTAL TO AND WILL BE INCLUDED IN THE COST OF 302007 GRADED AGGREGATE BASE COURSE, TYPE B.

(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

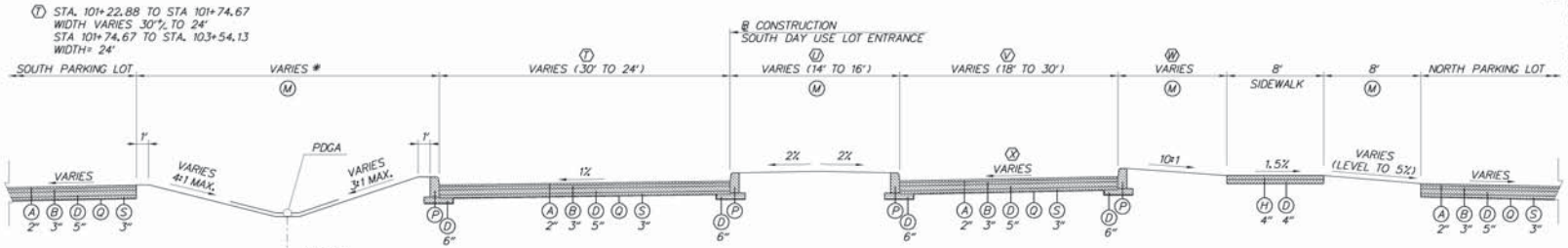
(U) STA. 101+22.88 TO STA. 101+48.68
WIDTH VARIES 14' TO 16'
STA. 101+48.68 TO STA. 101+70.24
WIDTH= 16'
STA. 101+70.24 TO STA. 102+53.64
WIDTH VARIES FROM 16' TO 14'
STA. 102+53.64 TO STA. 103+54.13
WIDTH= 14'

(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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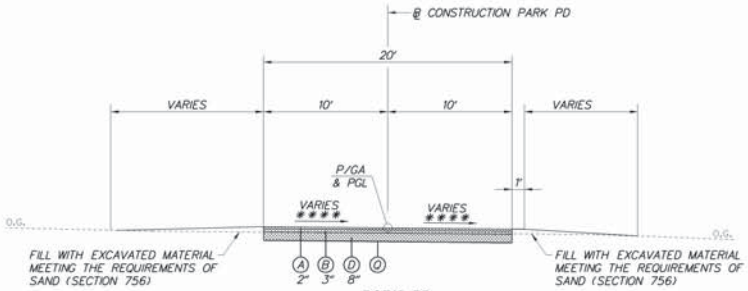
LEGEND

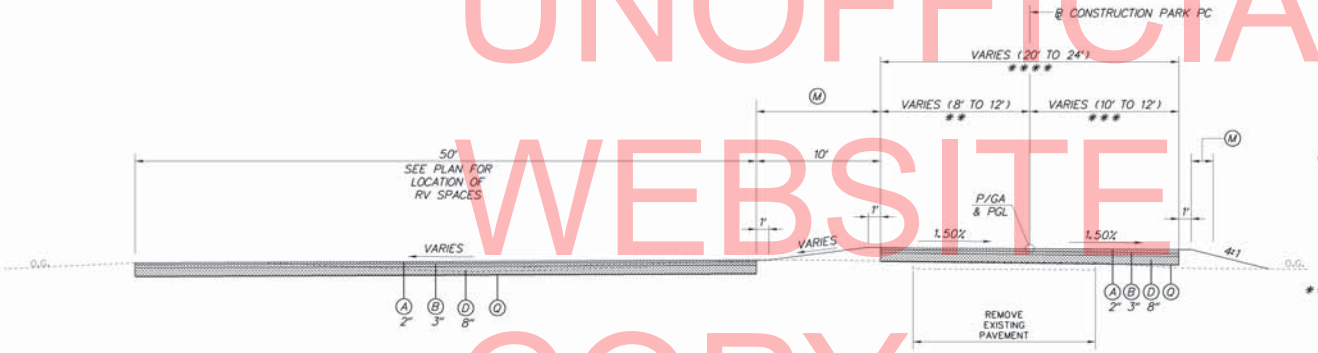
- (A) ITEM 401804 - WMA, TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
- (B) ITEM 401813 - WMA, TYPE B, 160 GYRATIONS, PG 70-22
- (C) ITEM 701026 - P.C.C. MONOLITHIC MEDIAN
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 705001 - P.C.C. SIDEWALK, 4"
- (I) ITEM 705002 - P.C.C. 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)

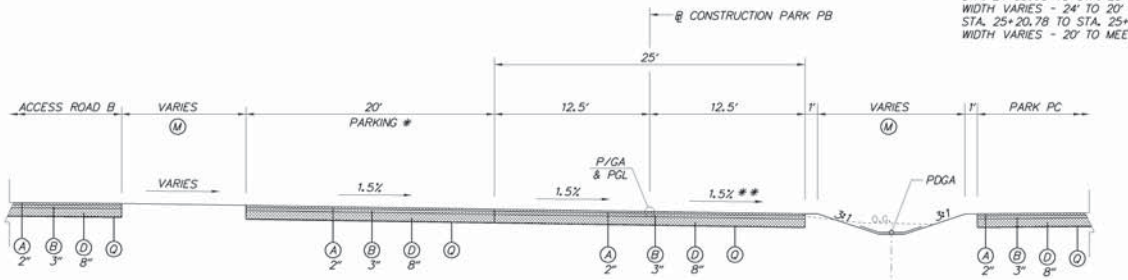


** STA. 20+10.77 TO STA. 20+71.94
WIDTH VARIES - EXIST. TO 11'
STA. 20+71.94 TO STA. 21+14.77
WIDTH VARIES - 11' TO 12'
STA. 21+14.77 TO STA. 24+05.65
WIDTH = 12'
STA. 24+05.65 TO STA. 25+20.78
WIDTH VARIES - 12' TO 8'
STA. 25+20.78 TO STA. 25+60.00
WIDTH VARIES - 8' TO MEET EXIST.

*** 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

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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)	TS06-BB
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 12
					CHECKED BY: RK&K		TOTAL SHTS. 282

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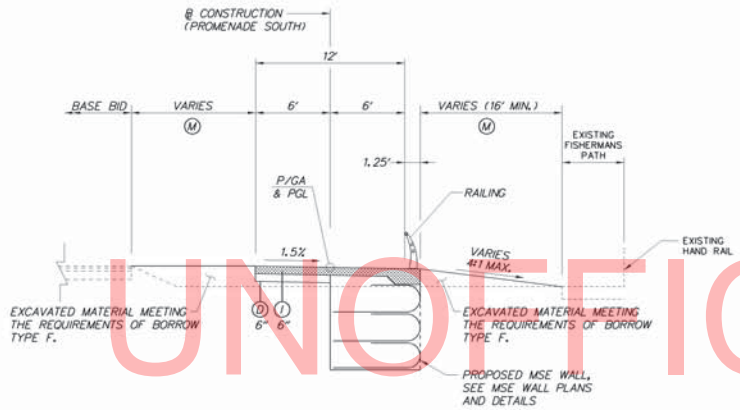
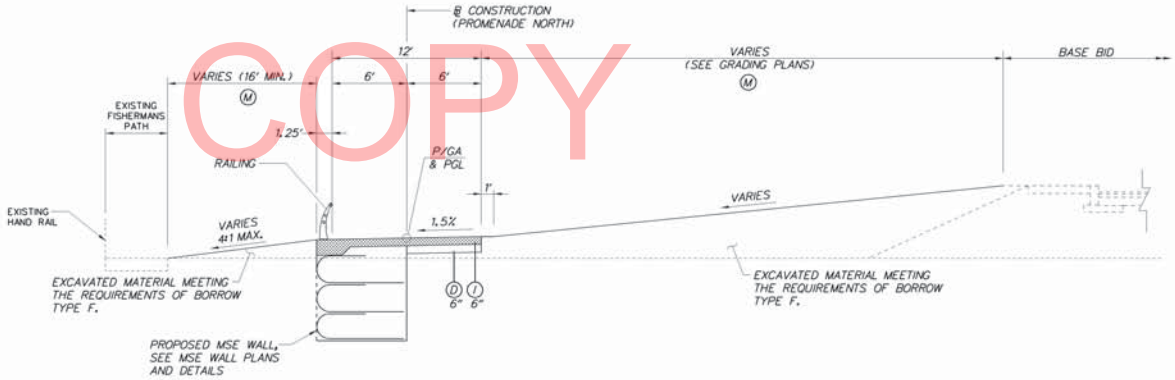
LEGEND

- (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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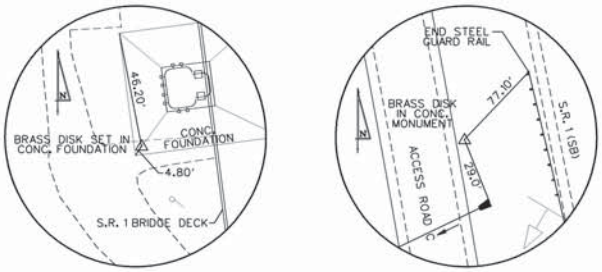
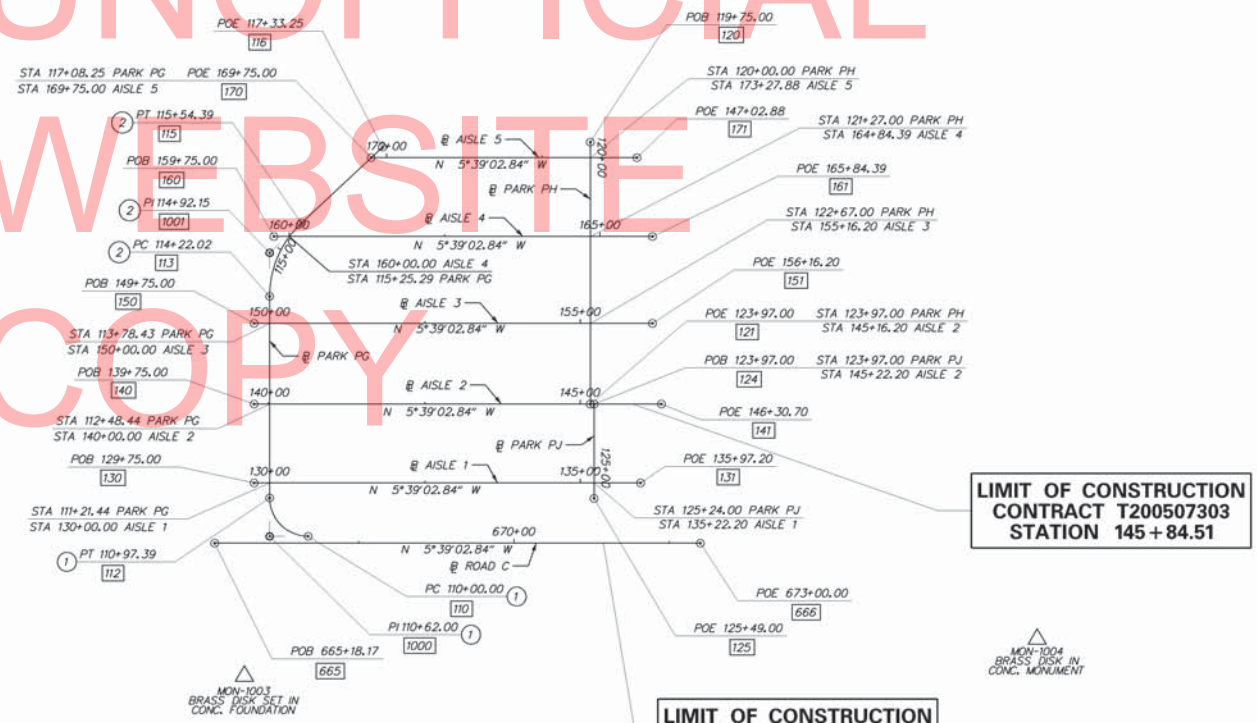


TRAVERSE POINT MON-1003
N 222086.9896
E 256908.7928
ELEV. 13.43

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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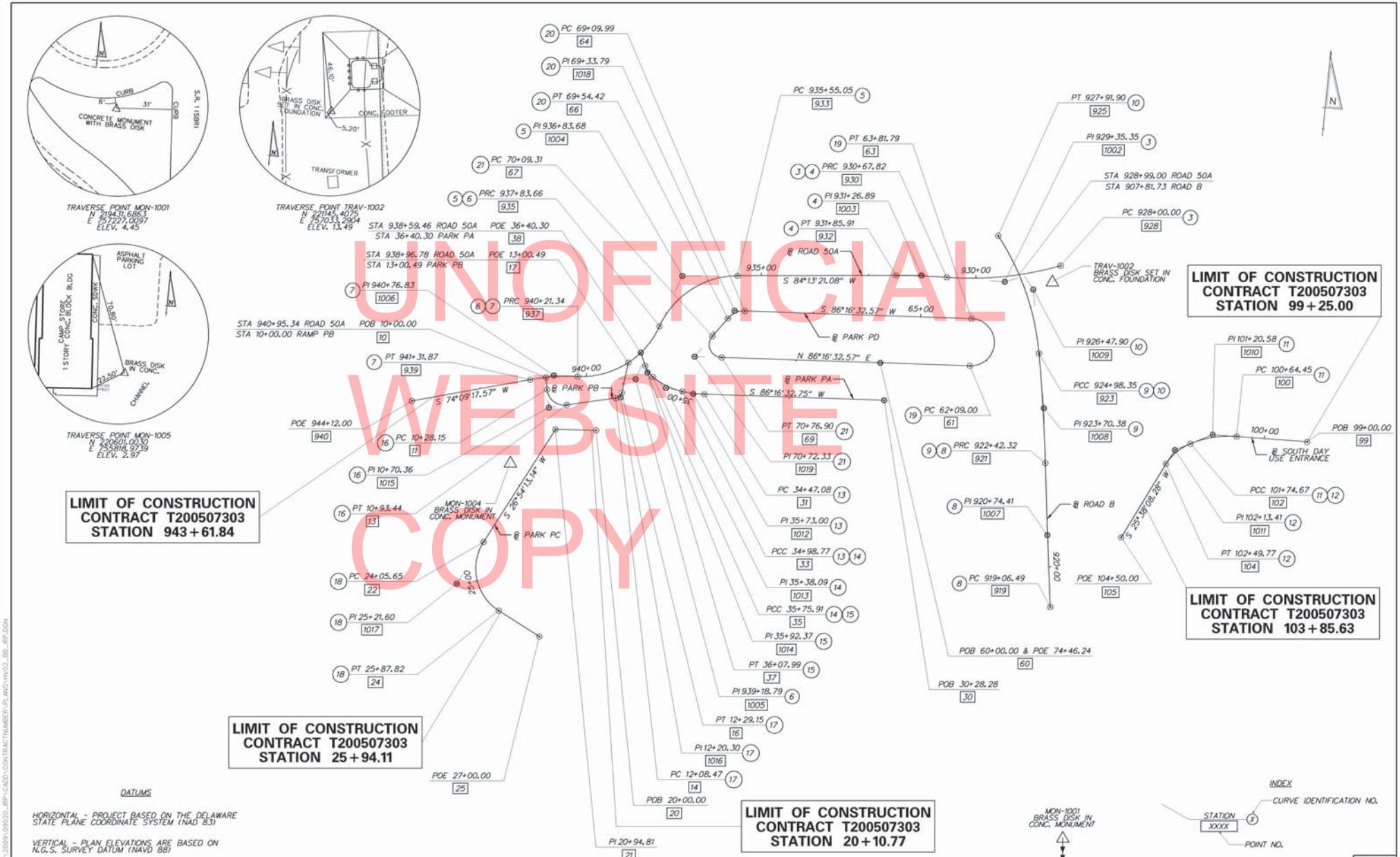

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DATUMS

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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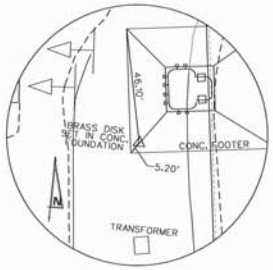

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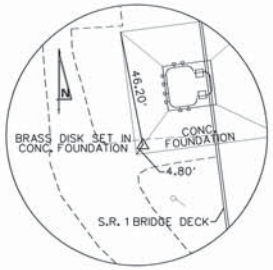
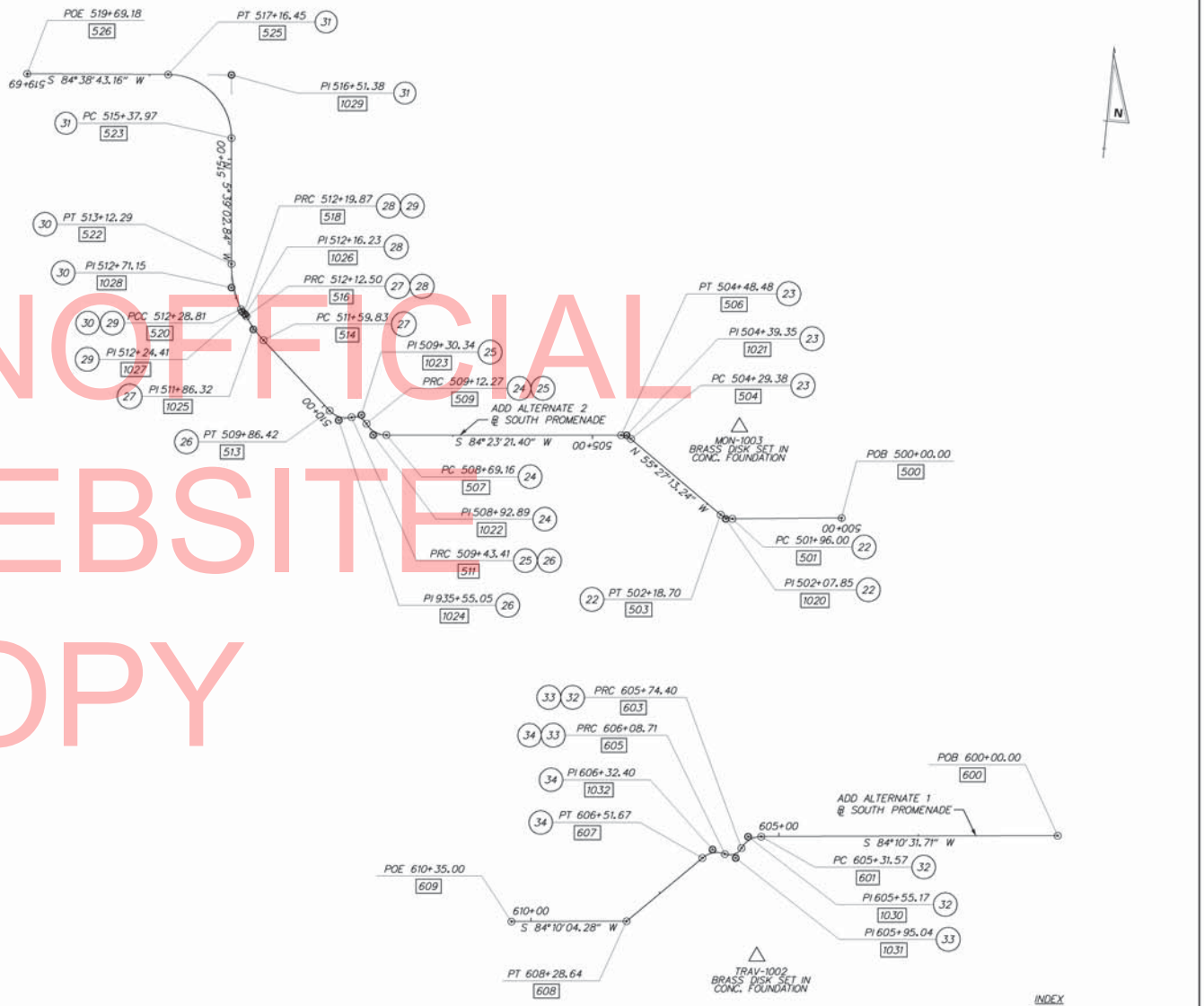
N 221145.4075
E 757033.2904
ELEV. 13.49



TRAVERSE POINT MON-1003
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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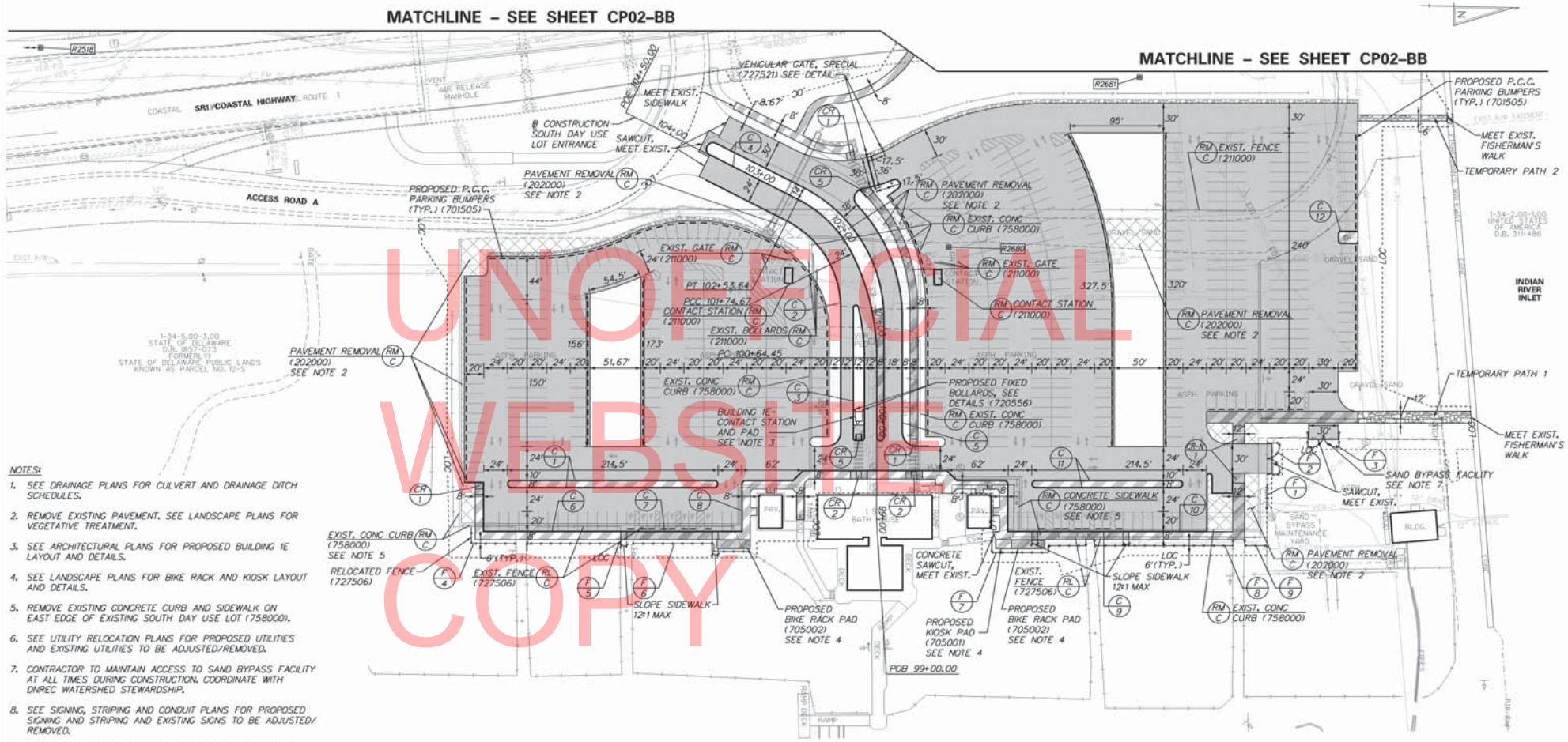

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NOTES:

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 PLACING THE RECYCLED CRUSHED CONCRETE SHALL BE PAID FOR UNDER ITEM 302513, CRUSHED P.C. CONCRETE BASE COURSE. THE COST OF THE GRADED AGGREGATE BASE COURSE SHALL BE PAID FOR UNDER ITEM 302007. 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

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

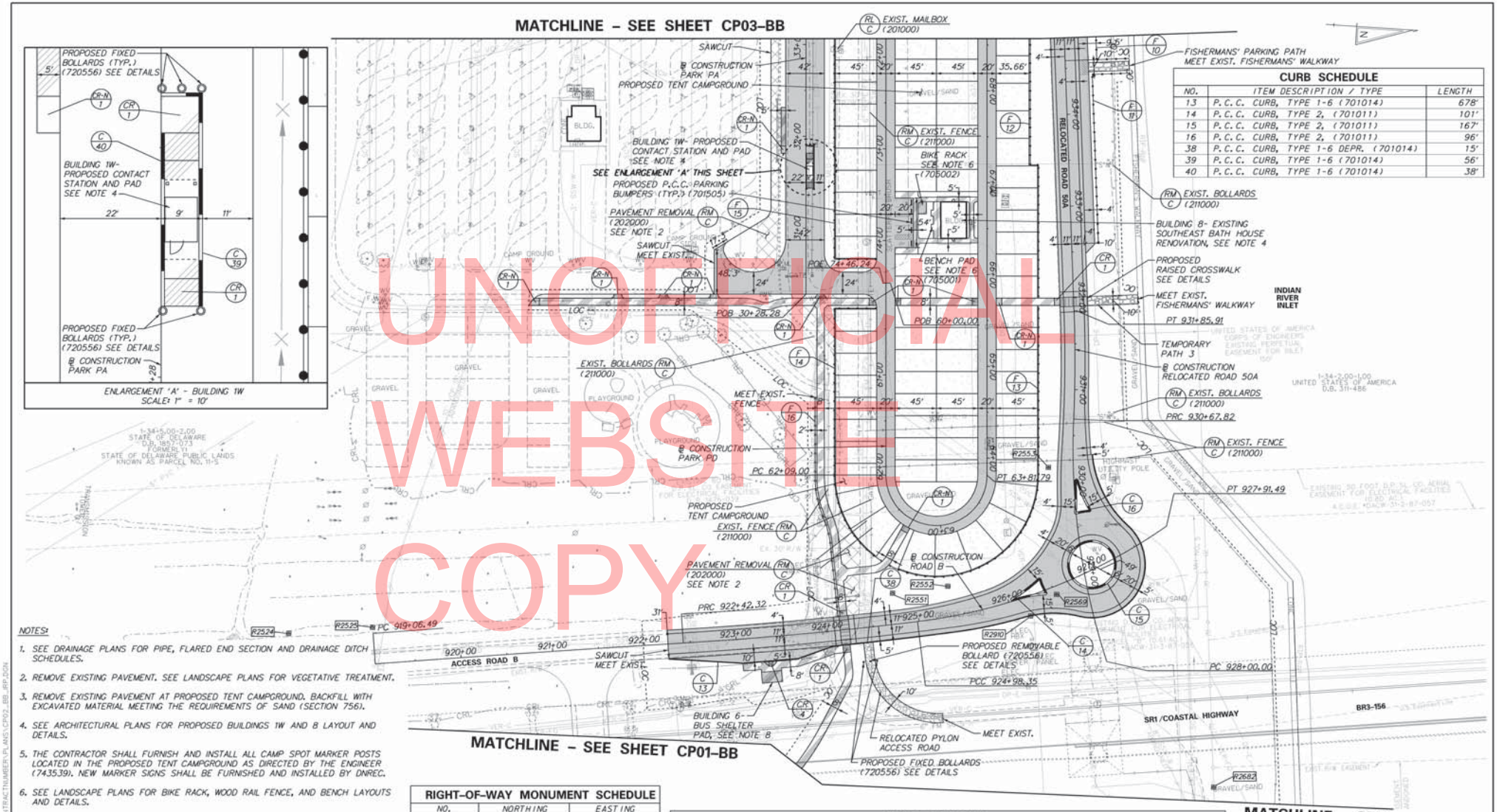
SCALE 0 50 100 150 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

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

CONSTRUCTION PLAN (BASE BID)

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



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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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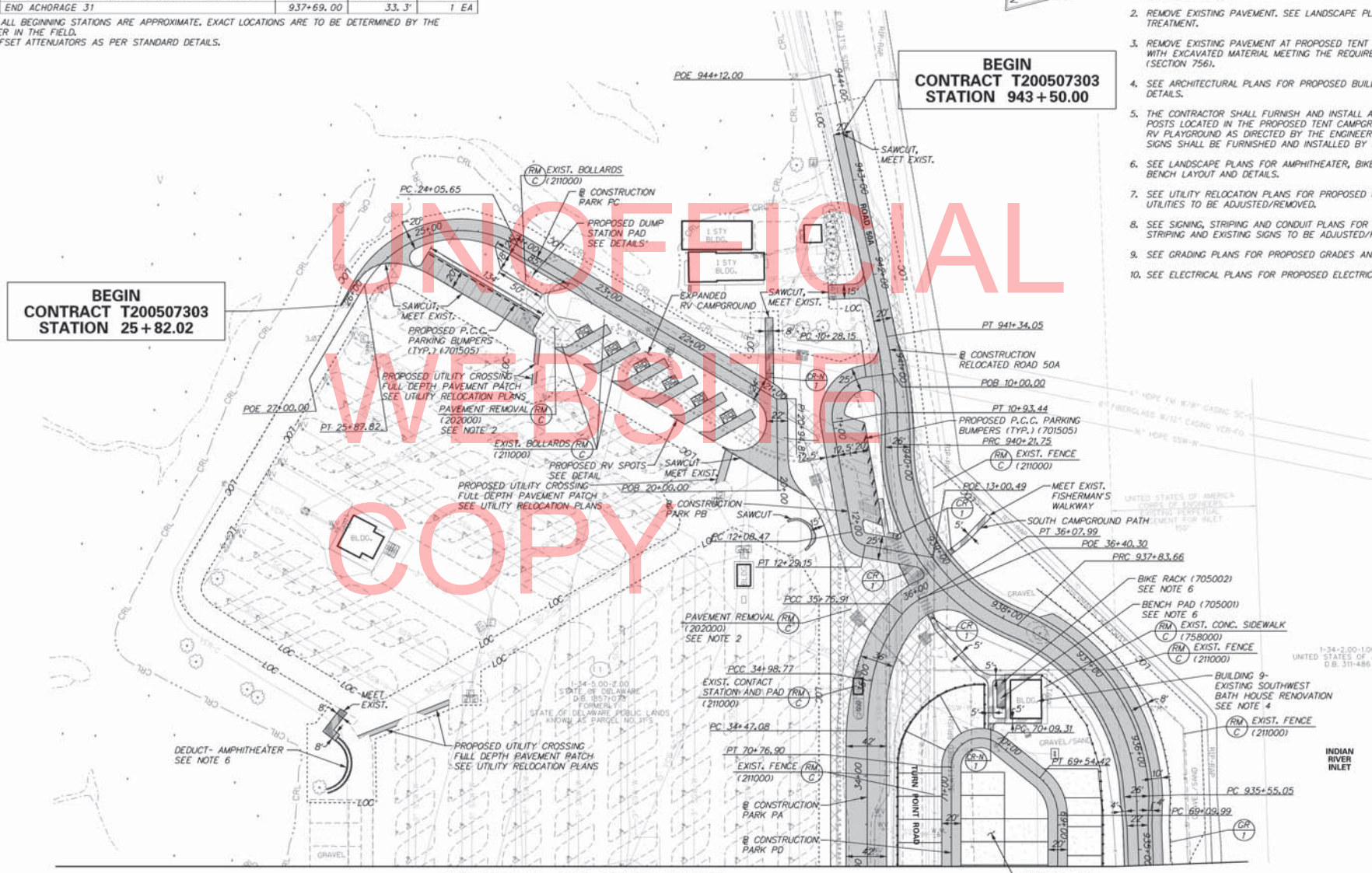
GUARDRAIL SCHEDULE

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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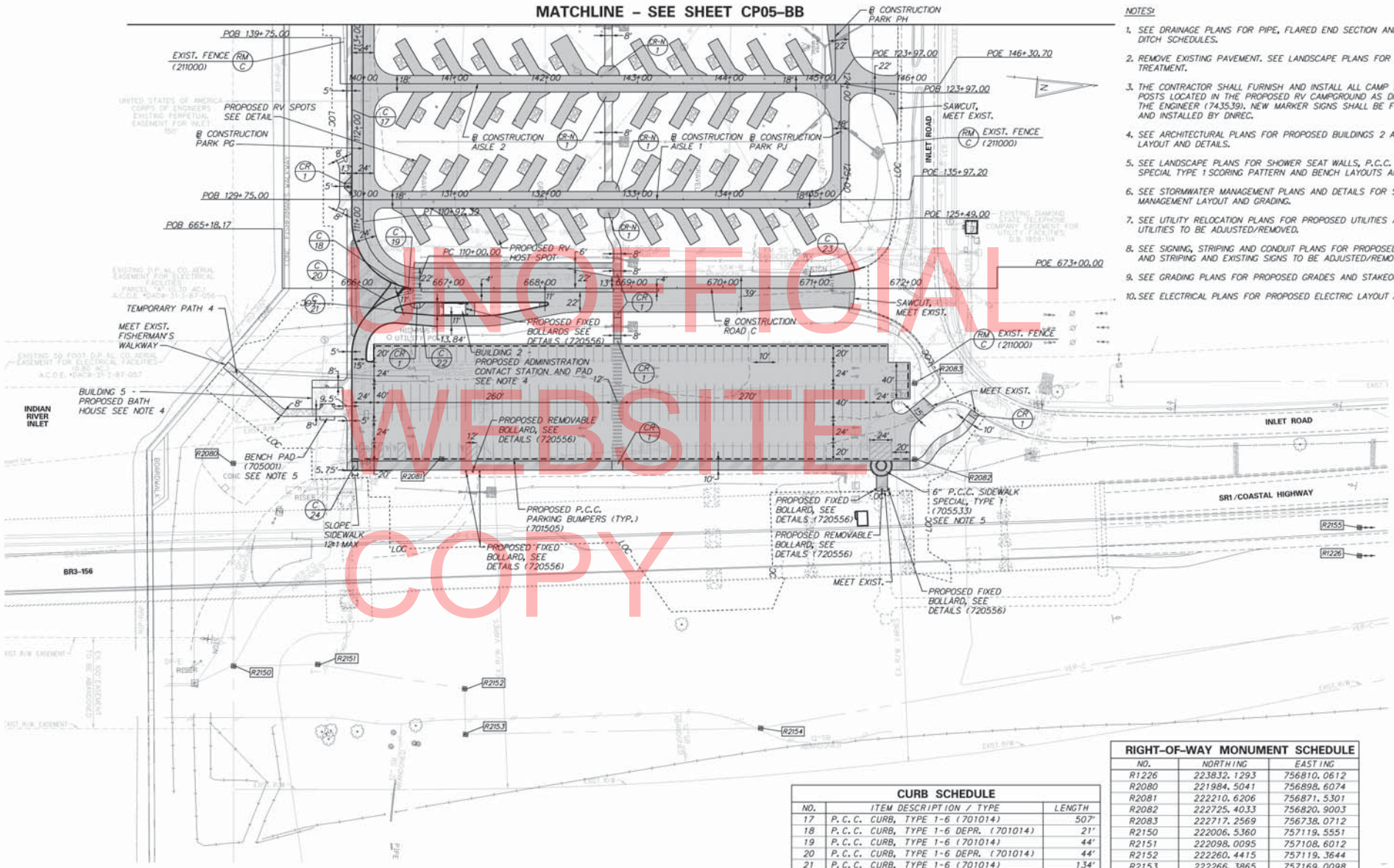

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NOTES:

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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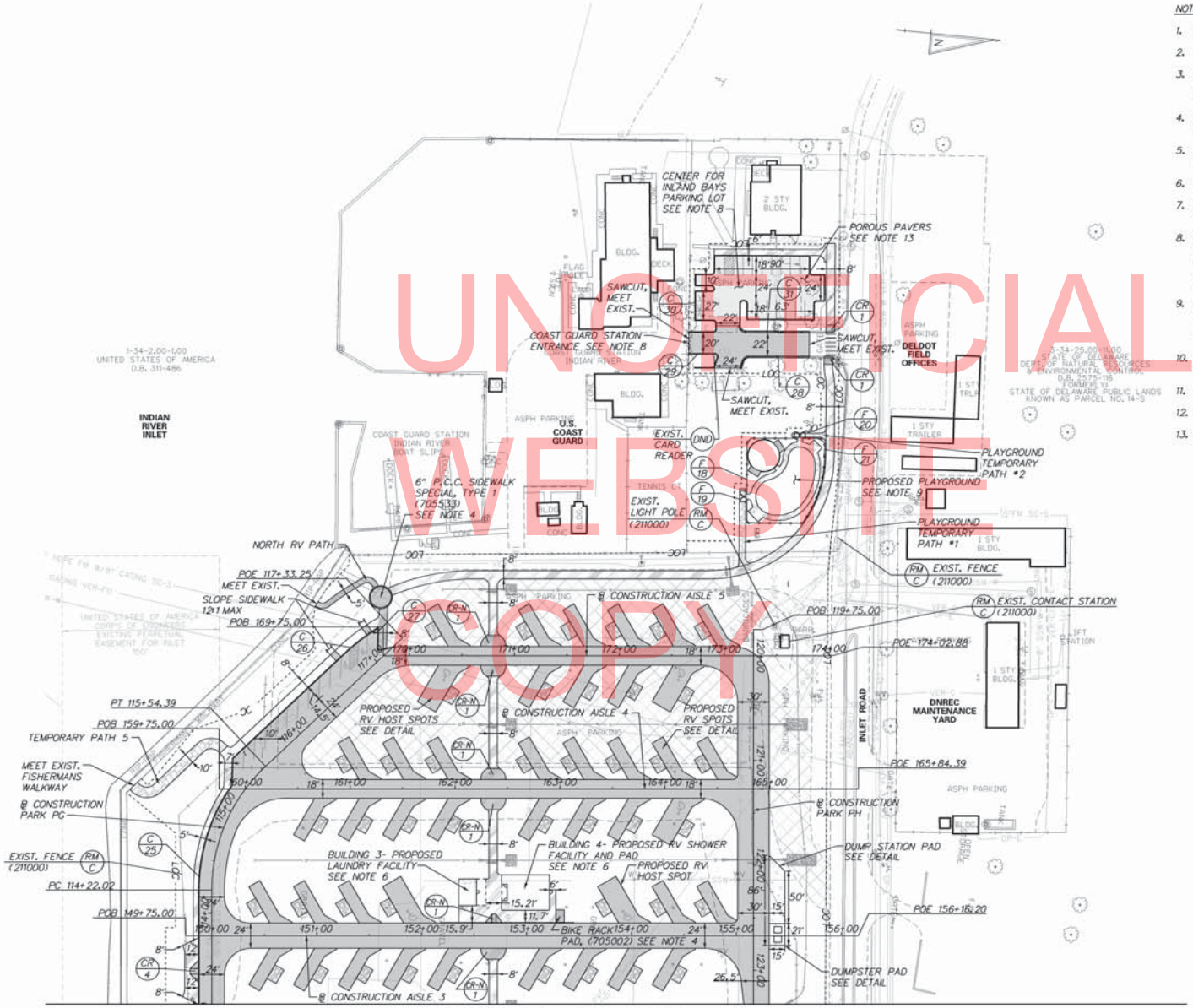

MATCHLINE – SEE SHEET CP04–BB

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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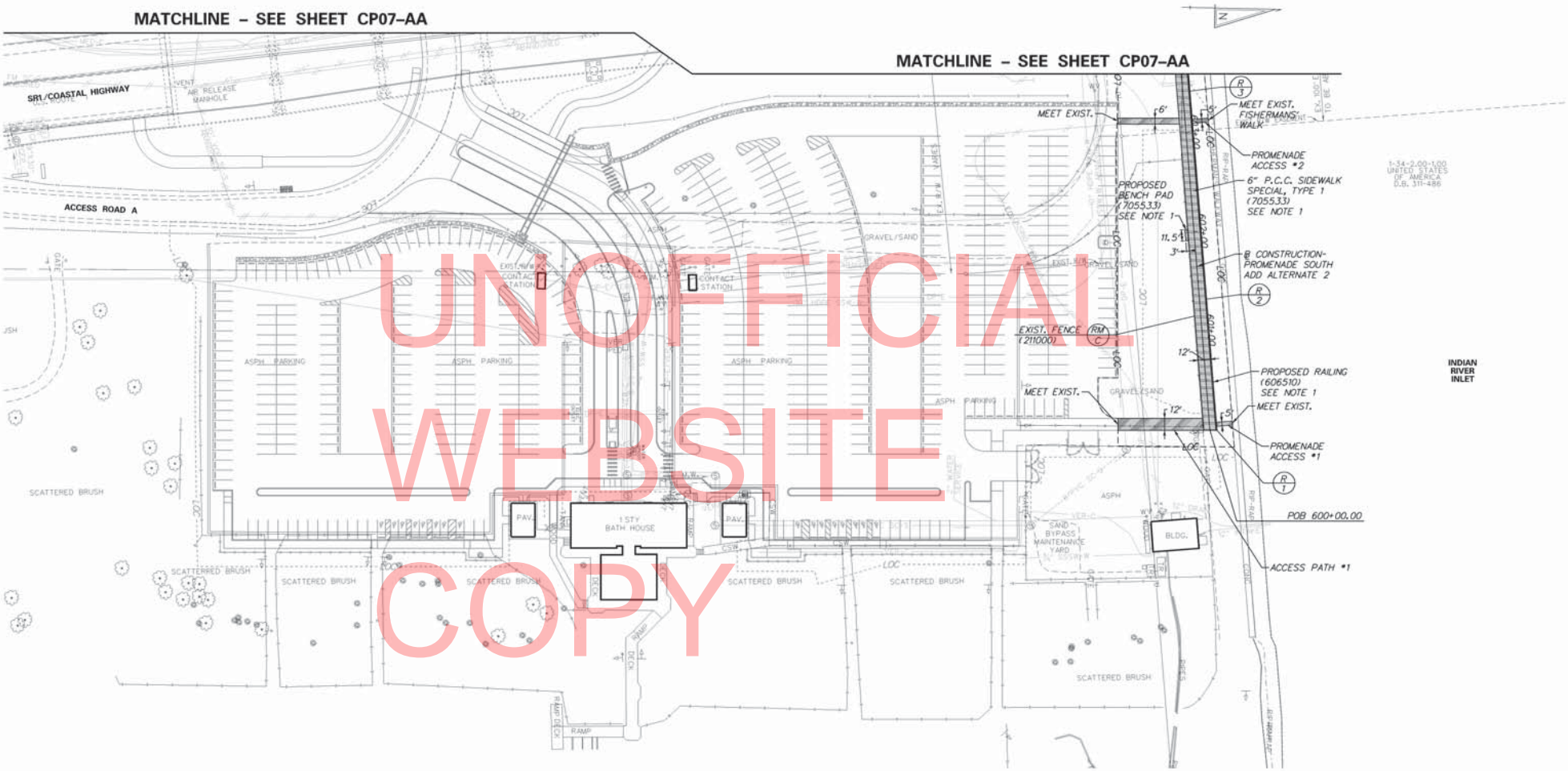

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NOTE:

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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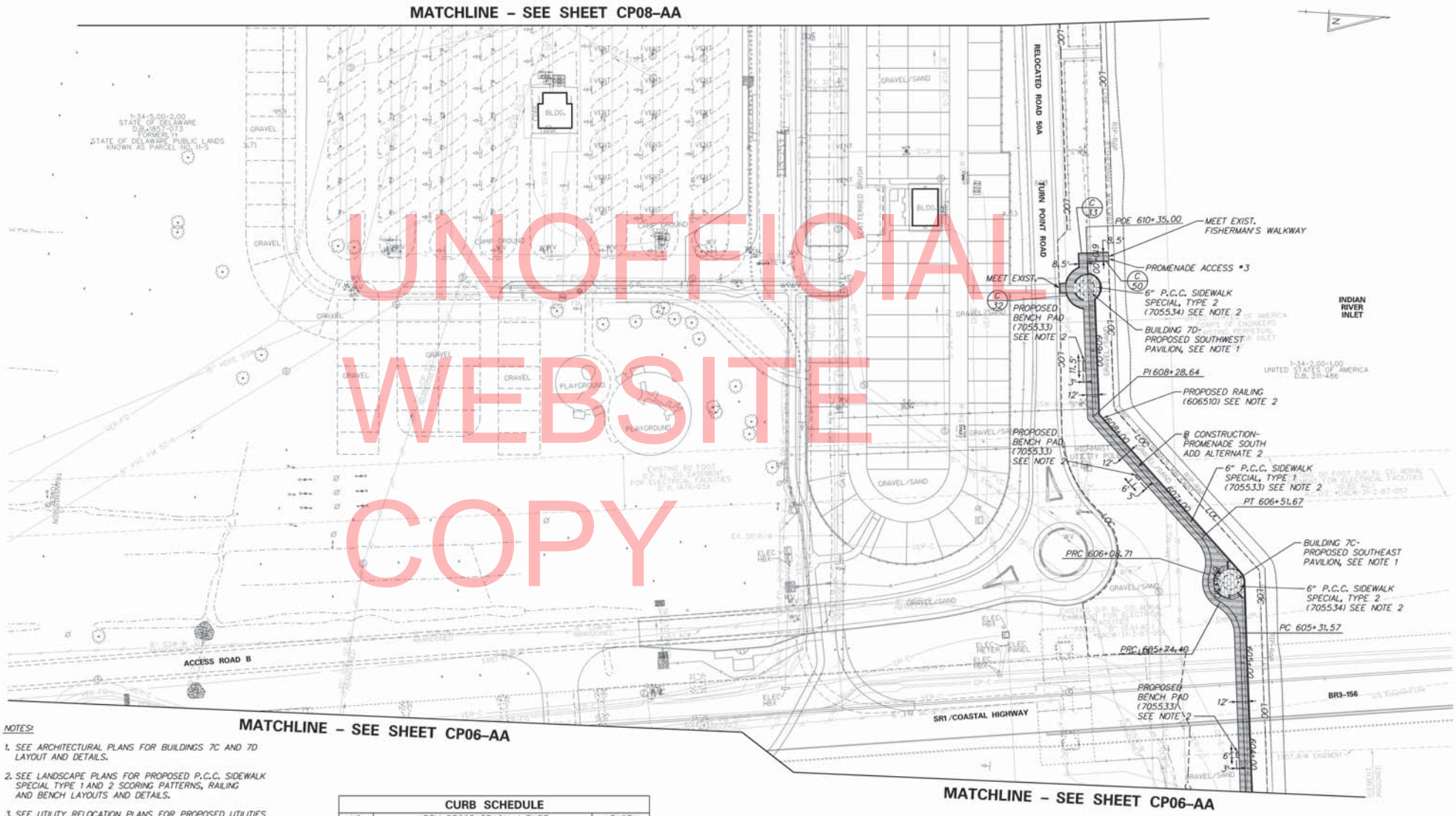

NOTES:

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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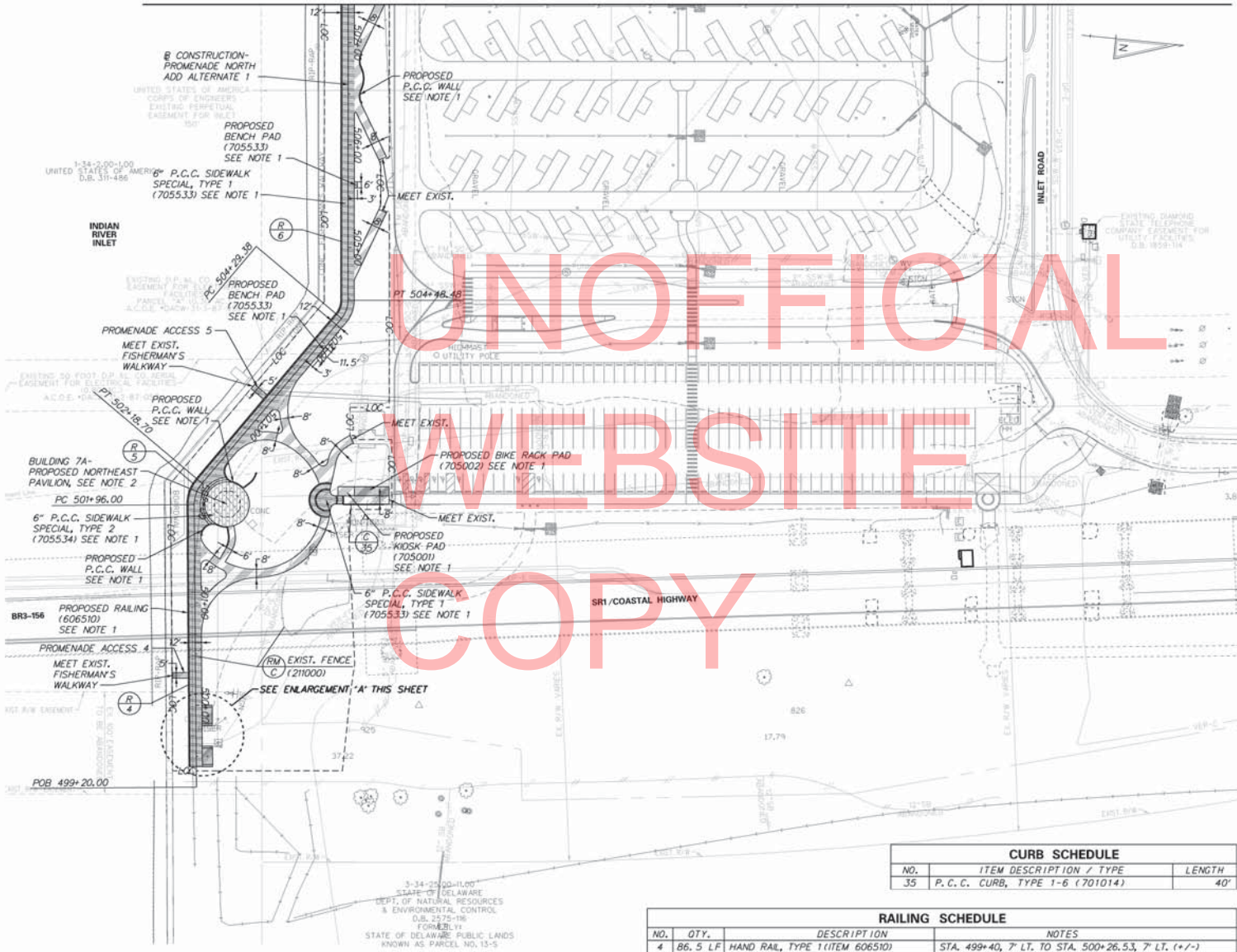
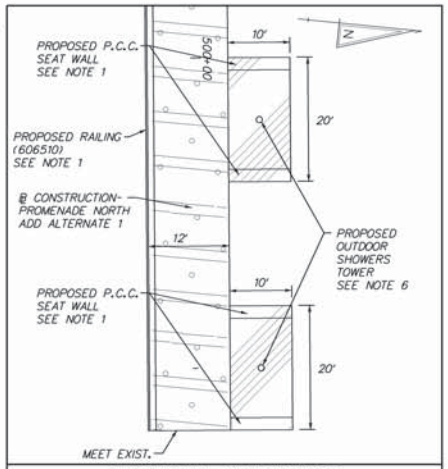
MATCHLINE – SEE SHEET CP09–AA





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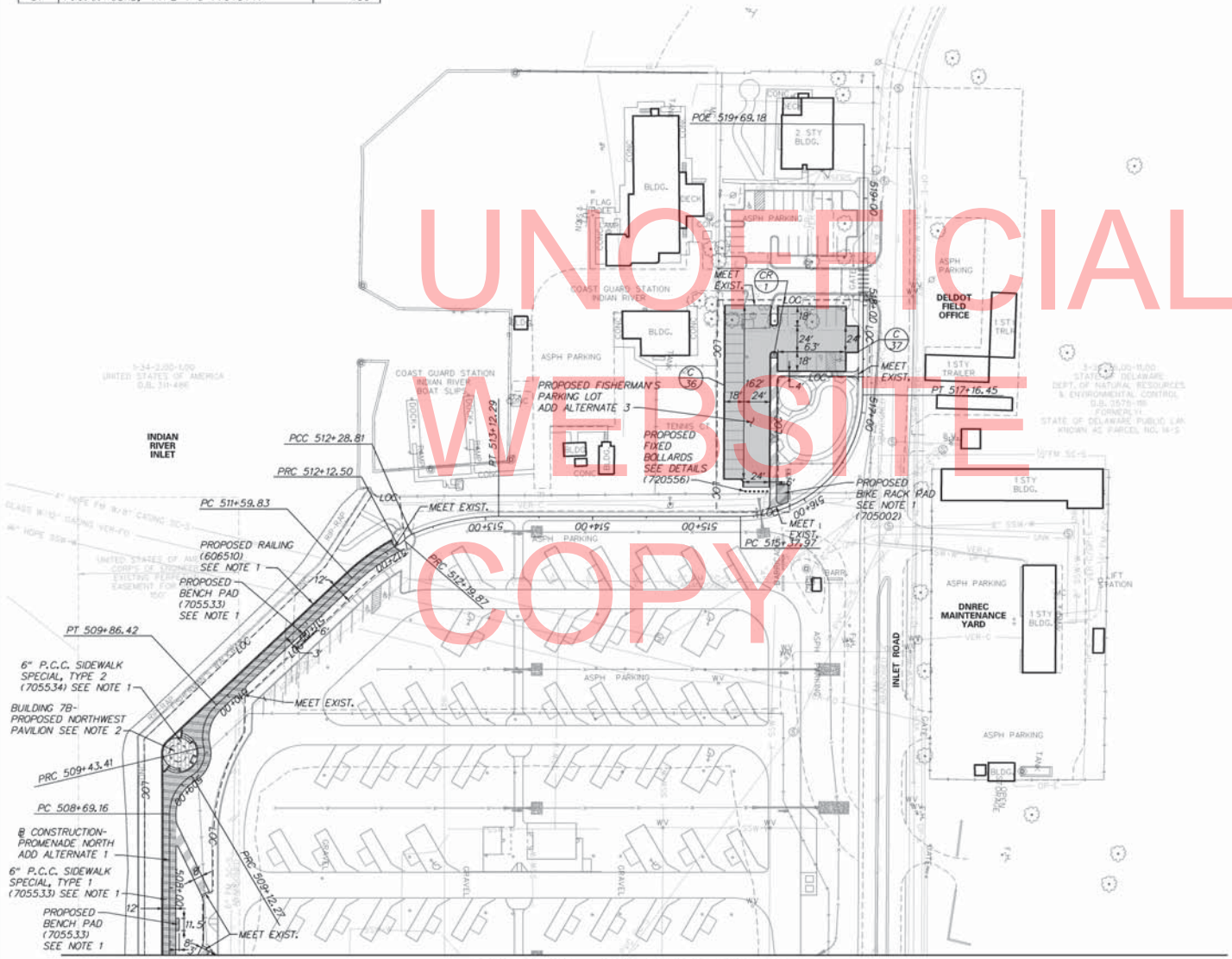
CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
36	P.C.C. CURB, TYPE 1-6 (701014)	187'
37	P.C.C. CURB, TYPE 1-6 (701014)	400'



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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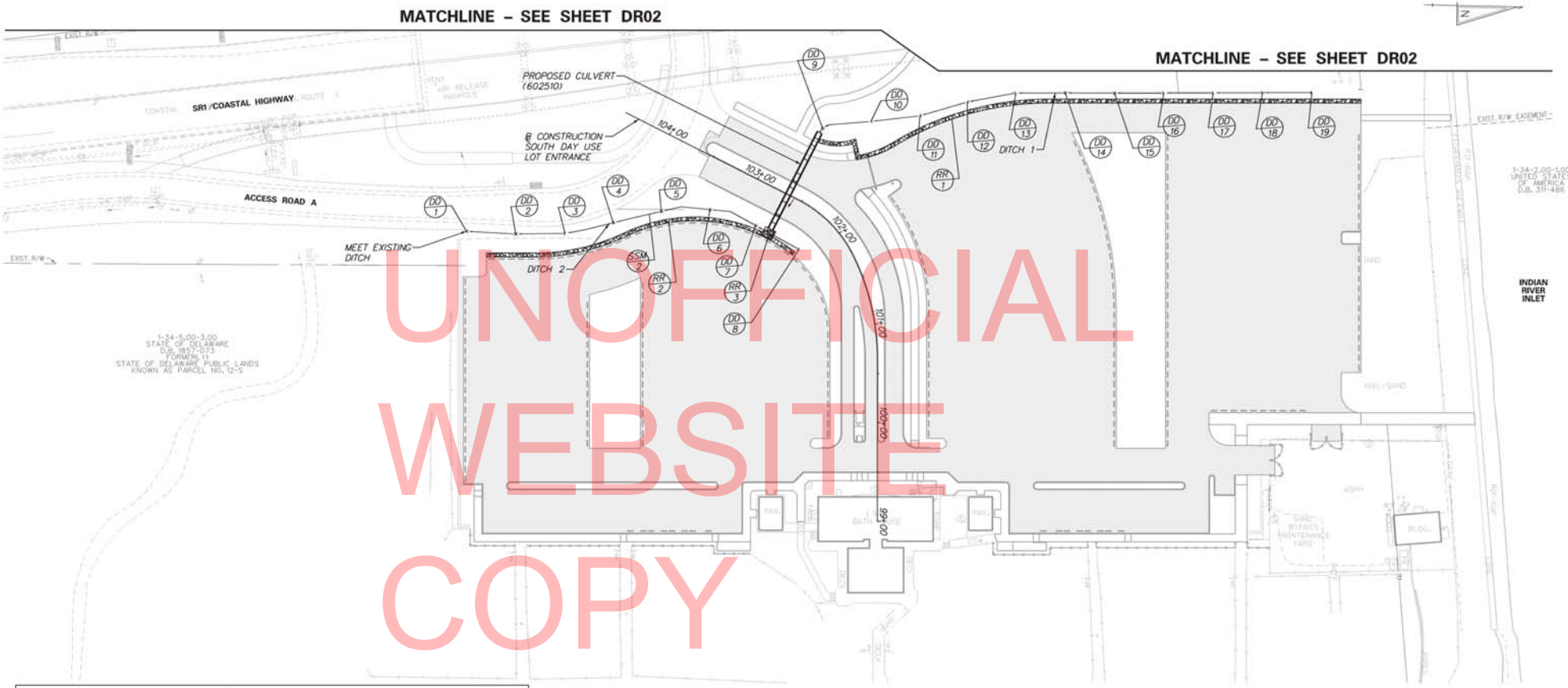

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DRAINAGE DITCH SCHEDULE

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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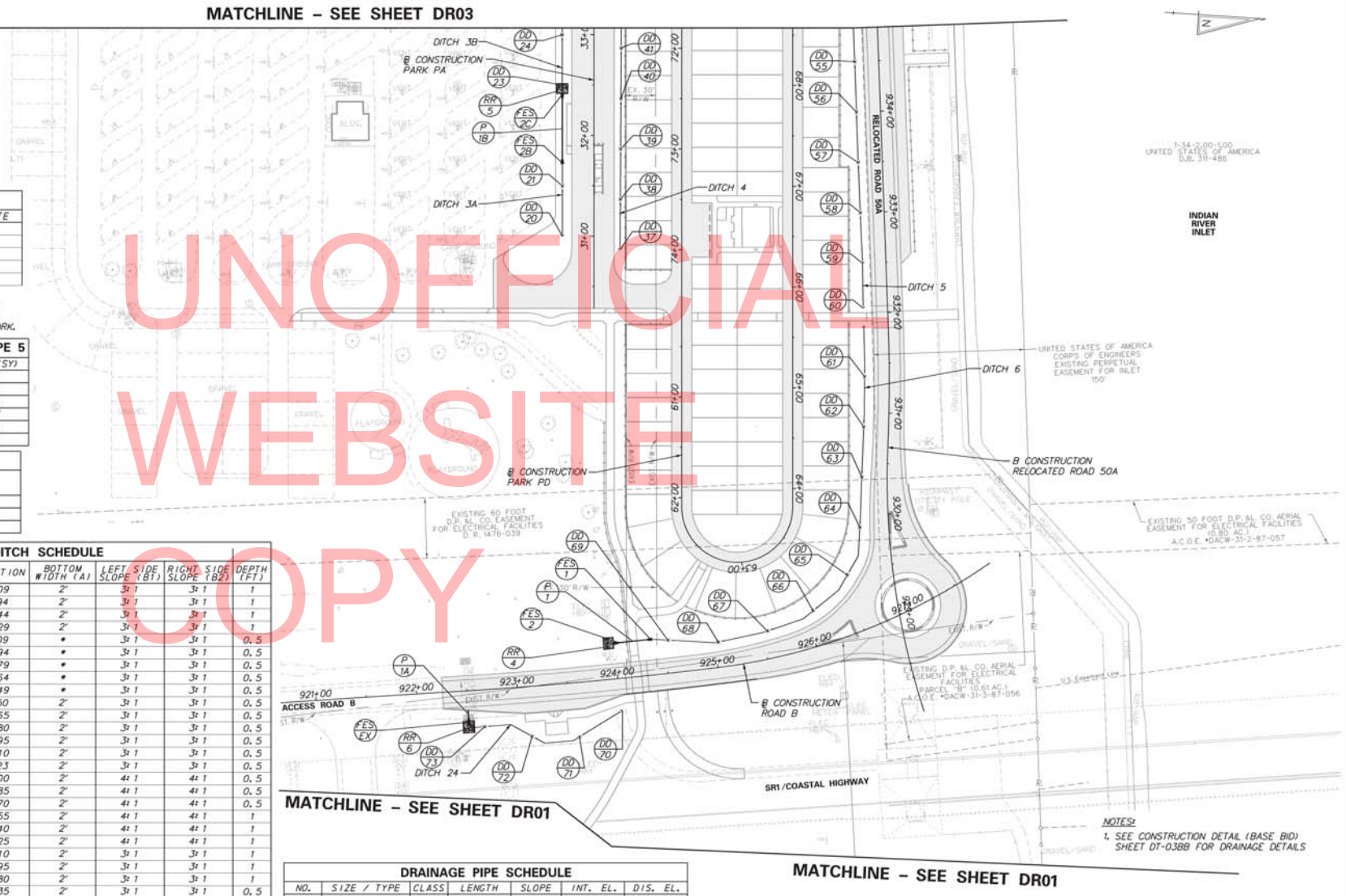

UNOFFICIAL WEBSITE COPY

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

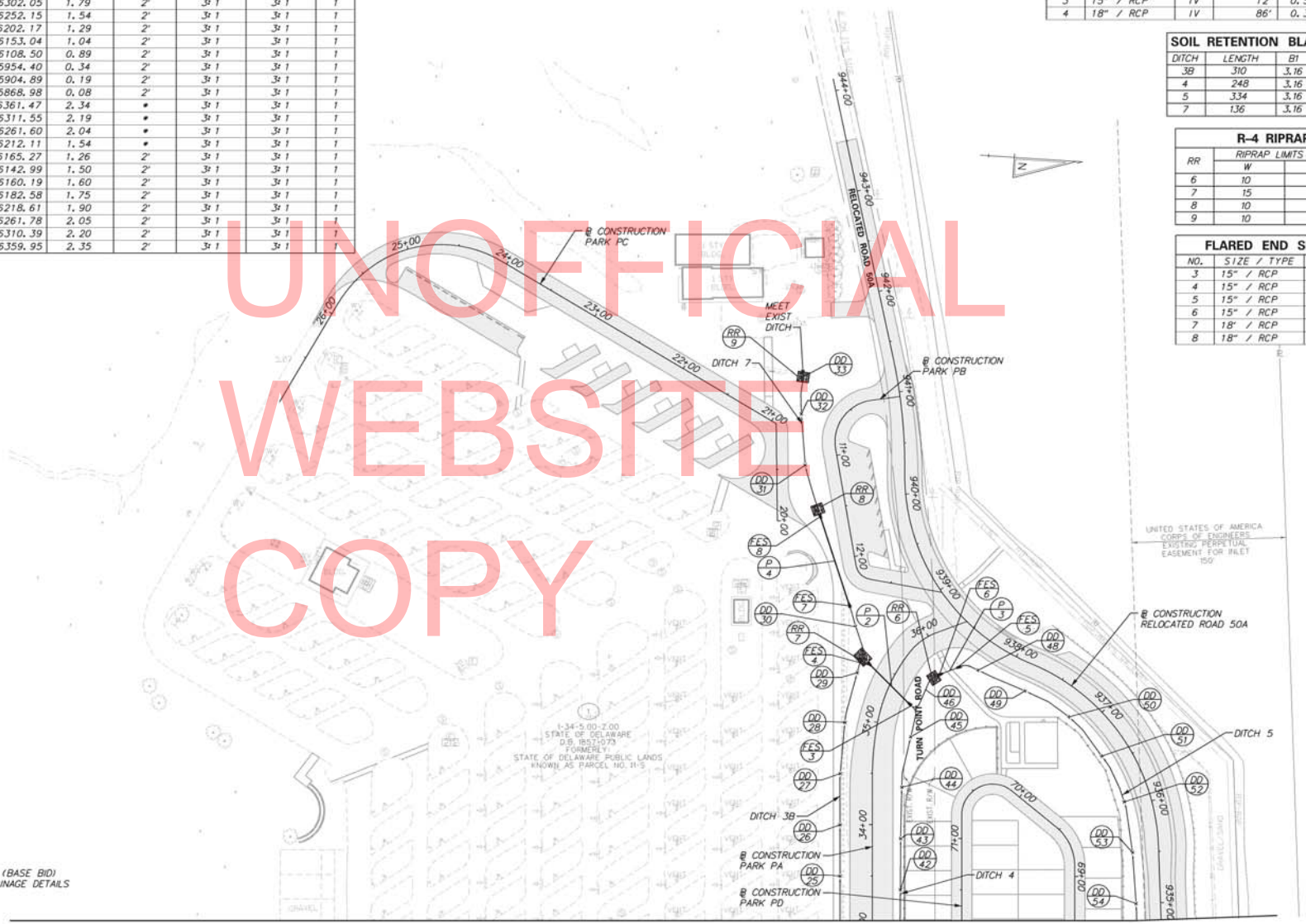
DITCH	LENGTH	B1	A	B2	AREA (SY)
3B	310	3.16	2	3.16	287
4	248	3.16	-	3.16	175
5	334	3.16	2	3.16	307
7	136	3.16	2	3.16	126

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

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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&JK / CHECKED BY: RK&JK	DRAINAGE PLAN (BASE PLAN)	DR03 / SHEET NO. 33 / TOTAL SHTS. 282

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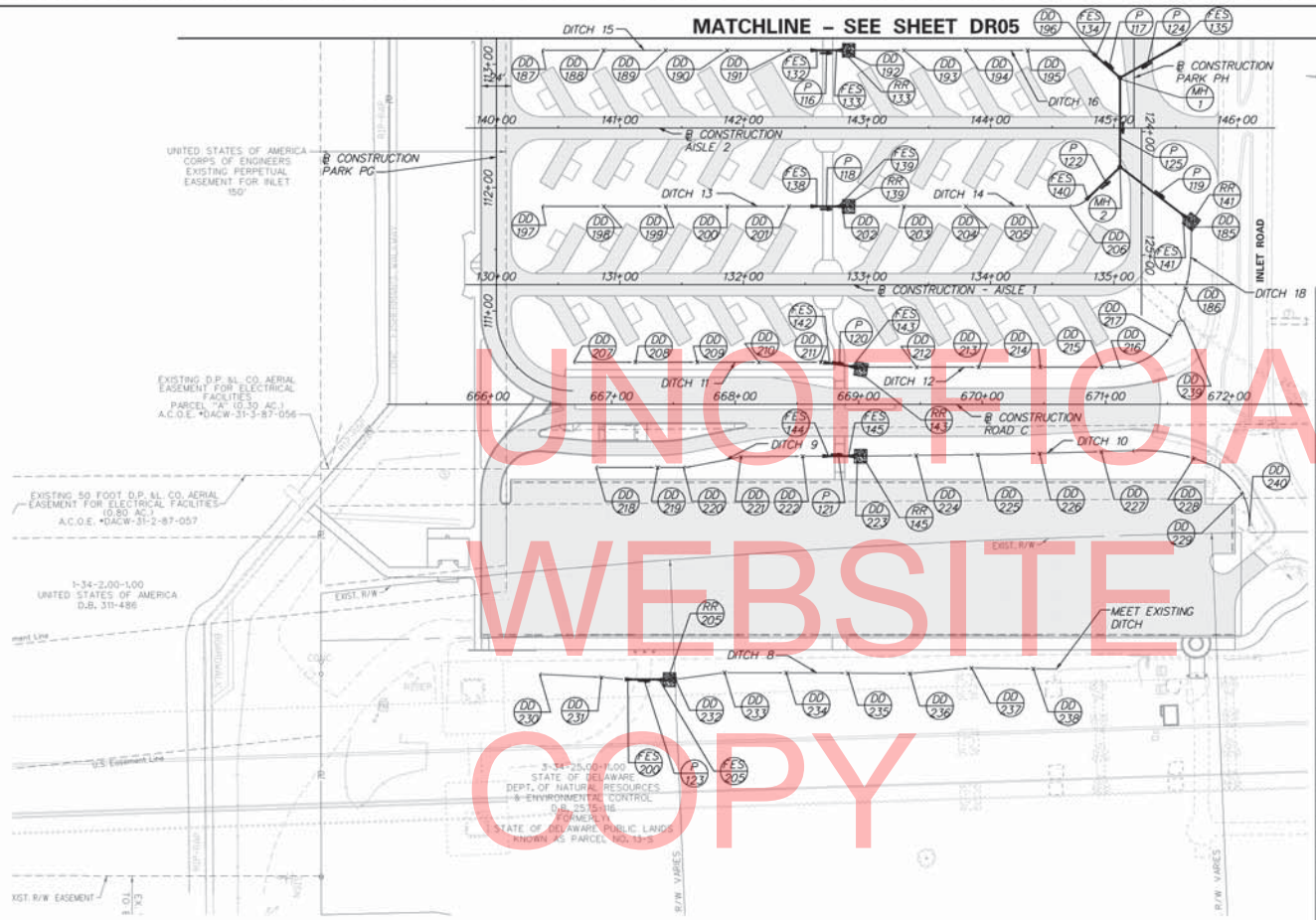

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DRAINAGE PIPE SCHEDULE

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

* SAFETY GRATE WILL BE PAID FOR UNDER ITEM 708583

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

6/21/2013 9:52:38 AM
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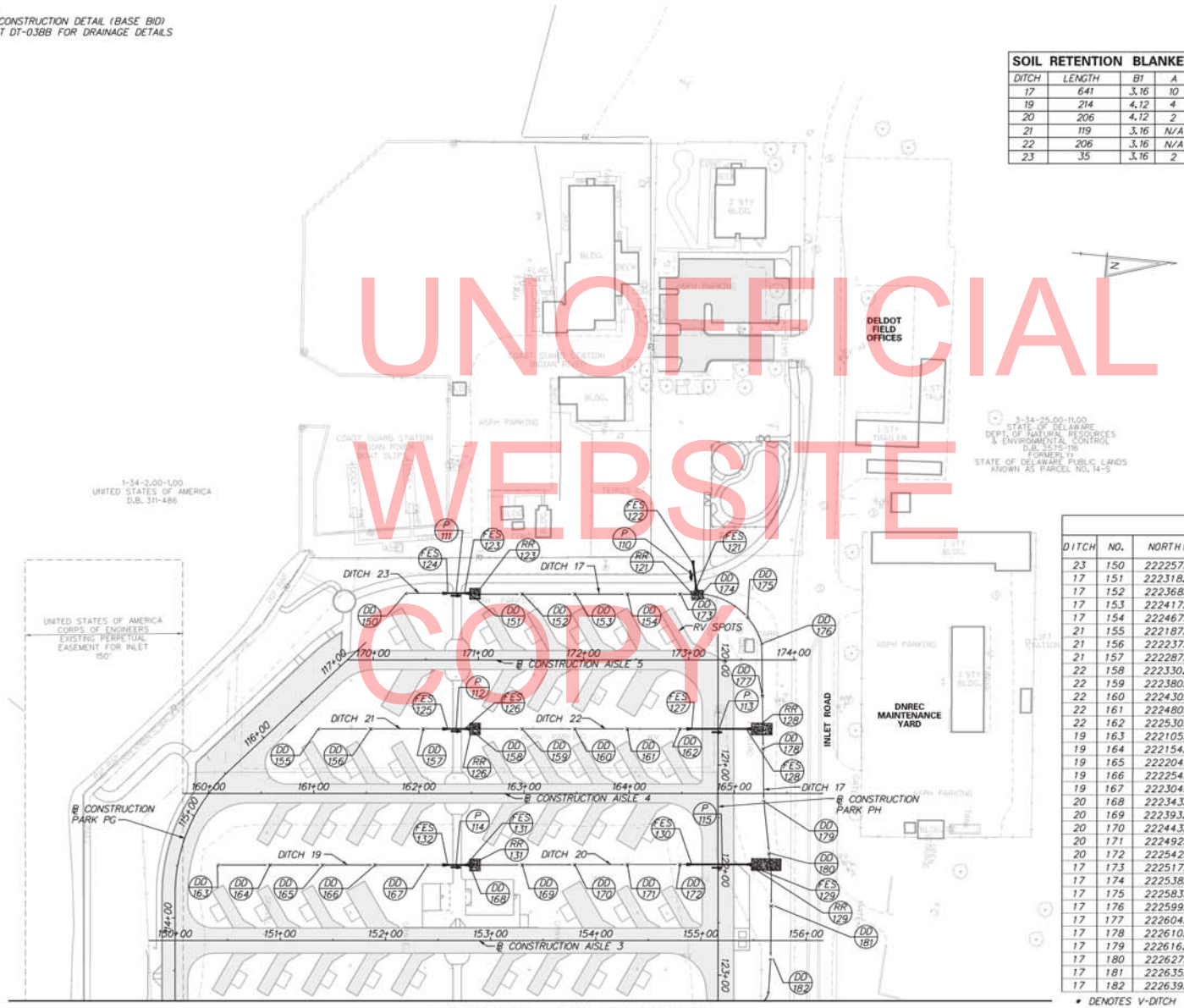
NOTES:

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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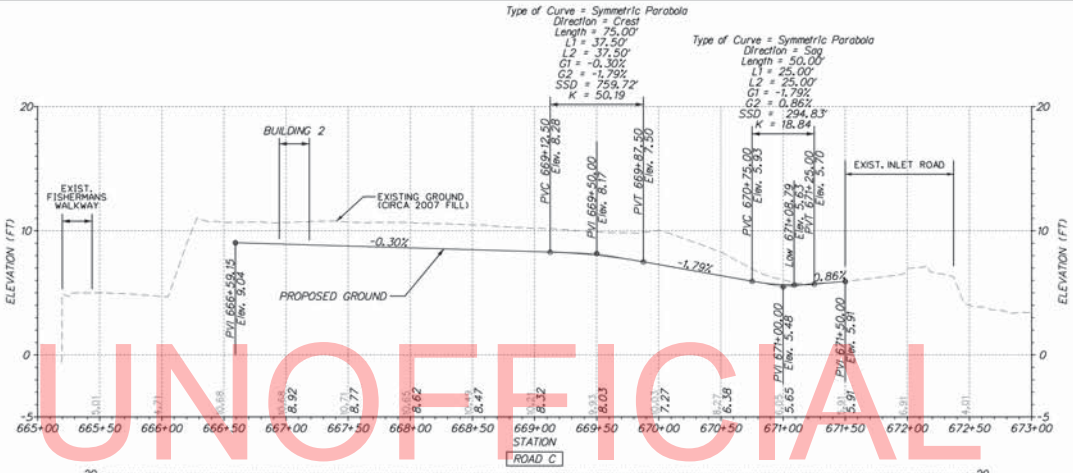

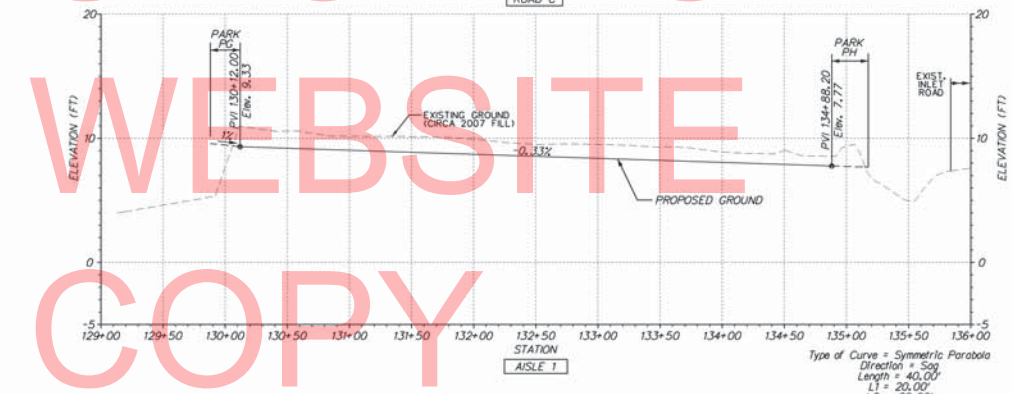

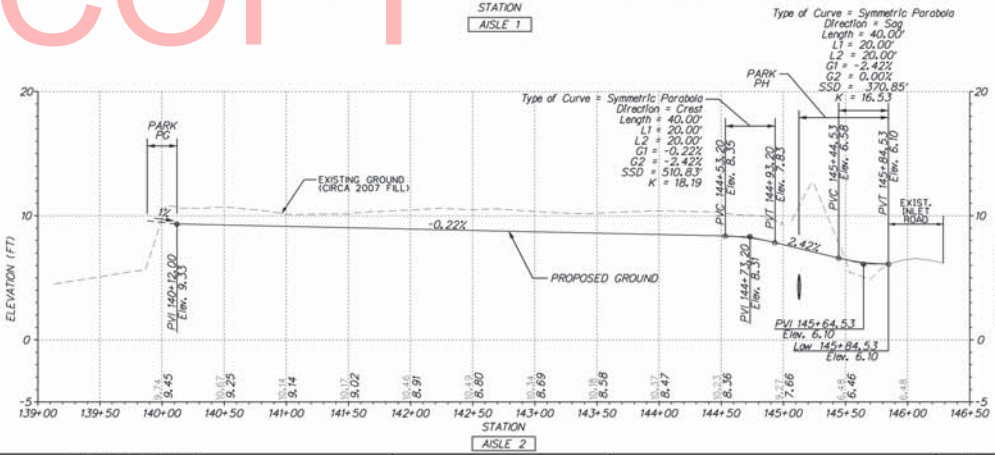

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VERTICAL SCALE FEET 0 5 10 15

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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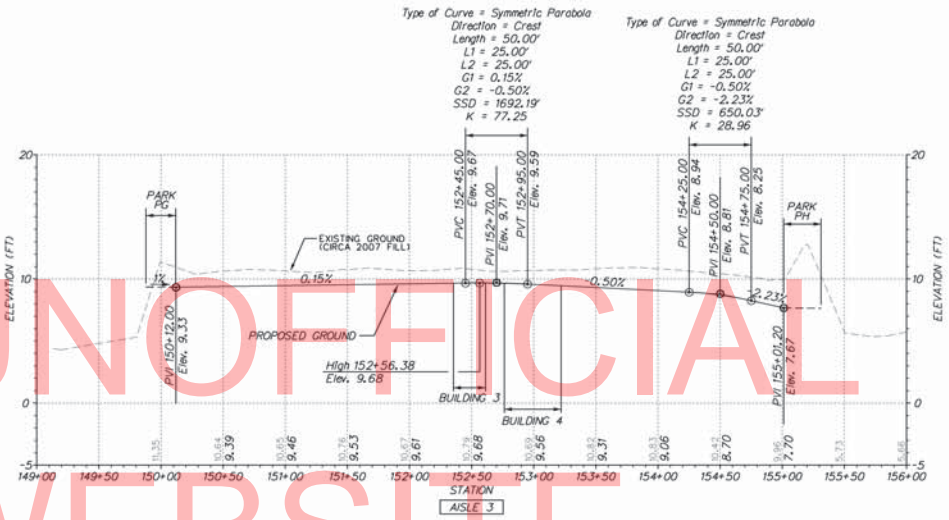

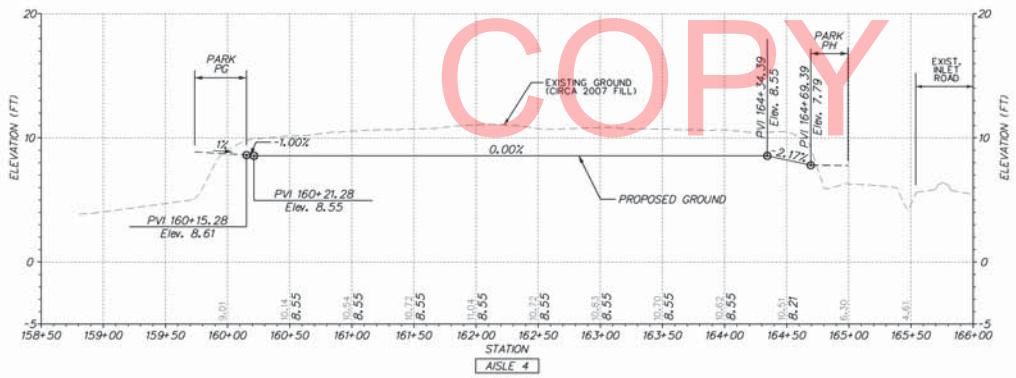

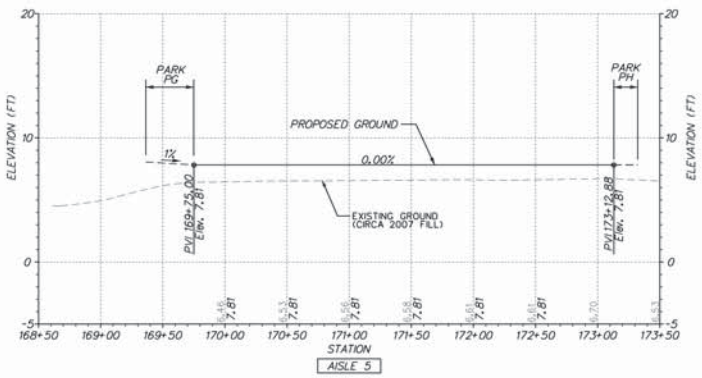

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VERTICAL SCALE FEET

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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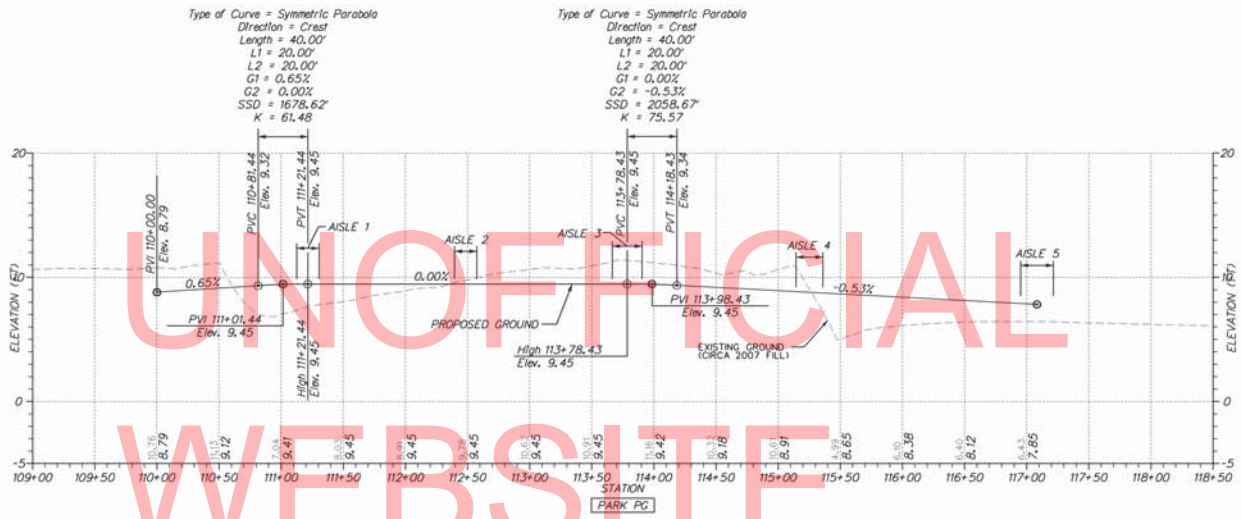

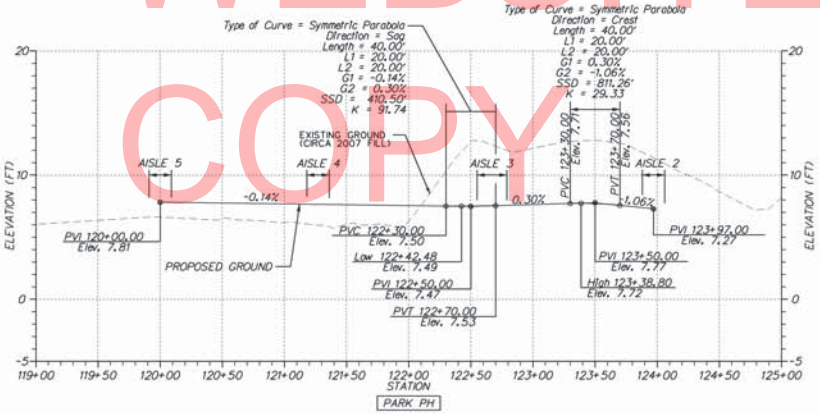

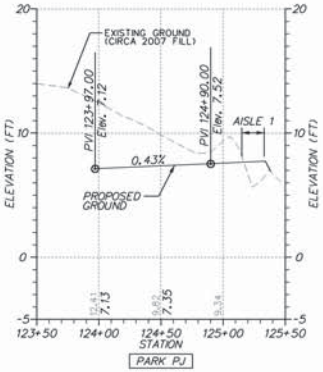

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VERTICAL SCALE FEET 0 5 10 15

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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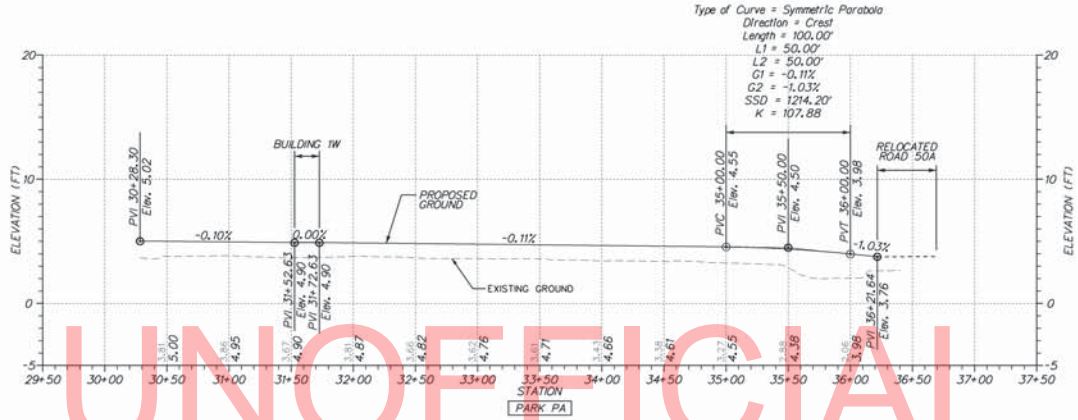

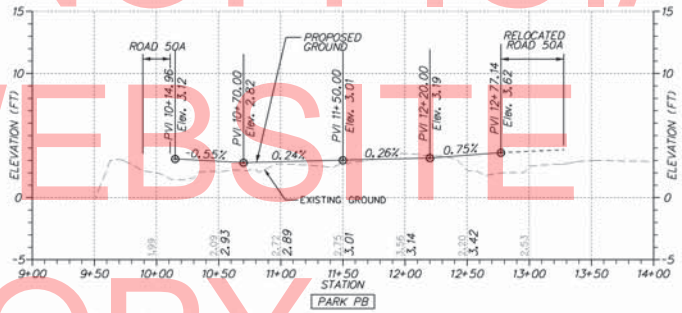

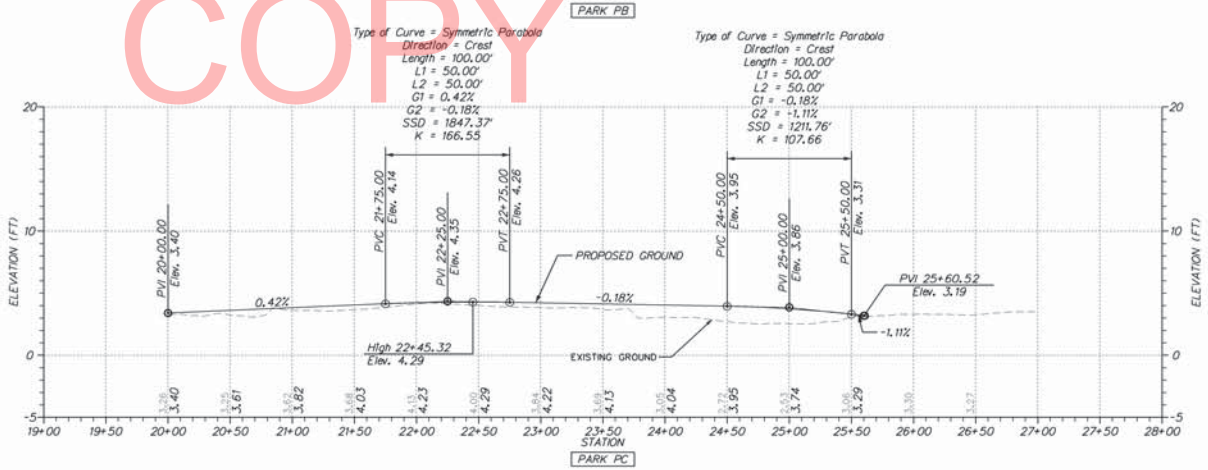

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VERTICAL SCALE FEET 15 10 5 0

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

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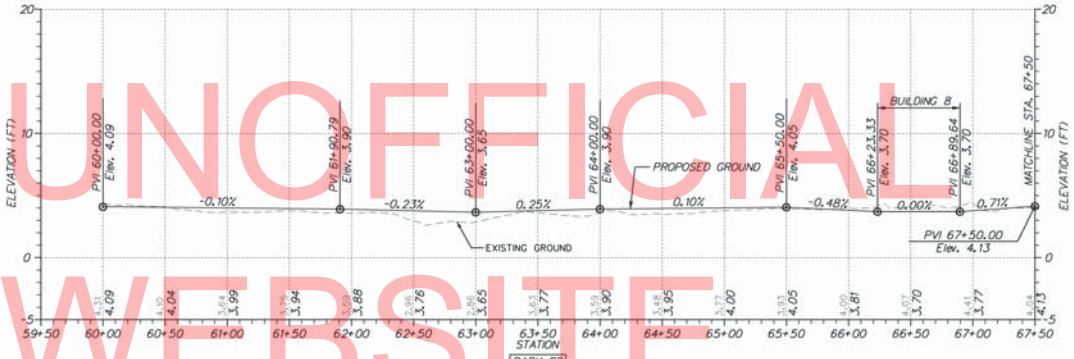

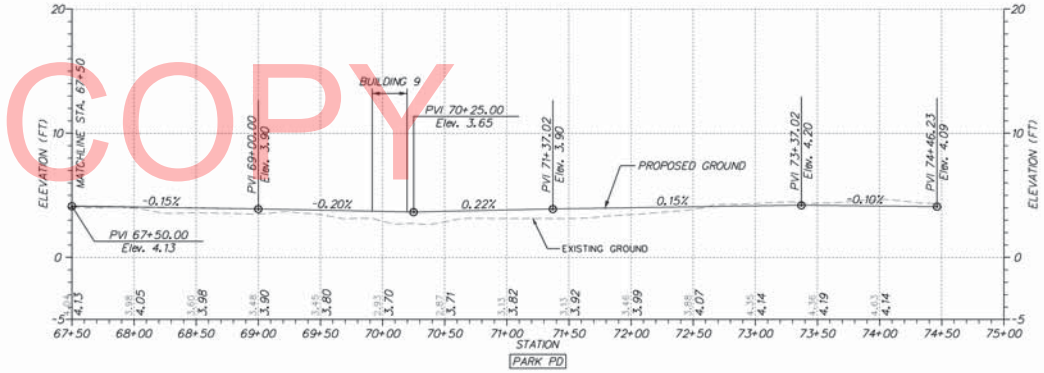

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VERTICAL SCALE FEET

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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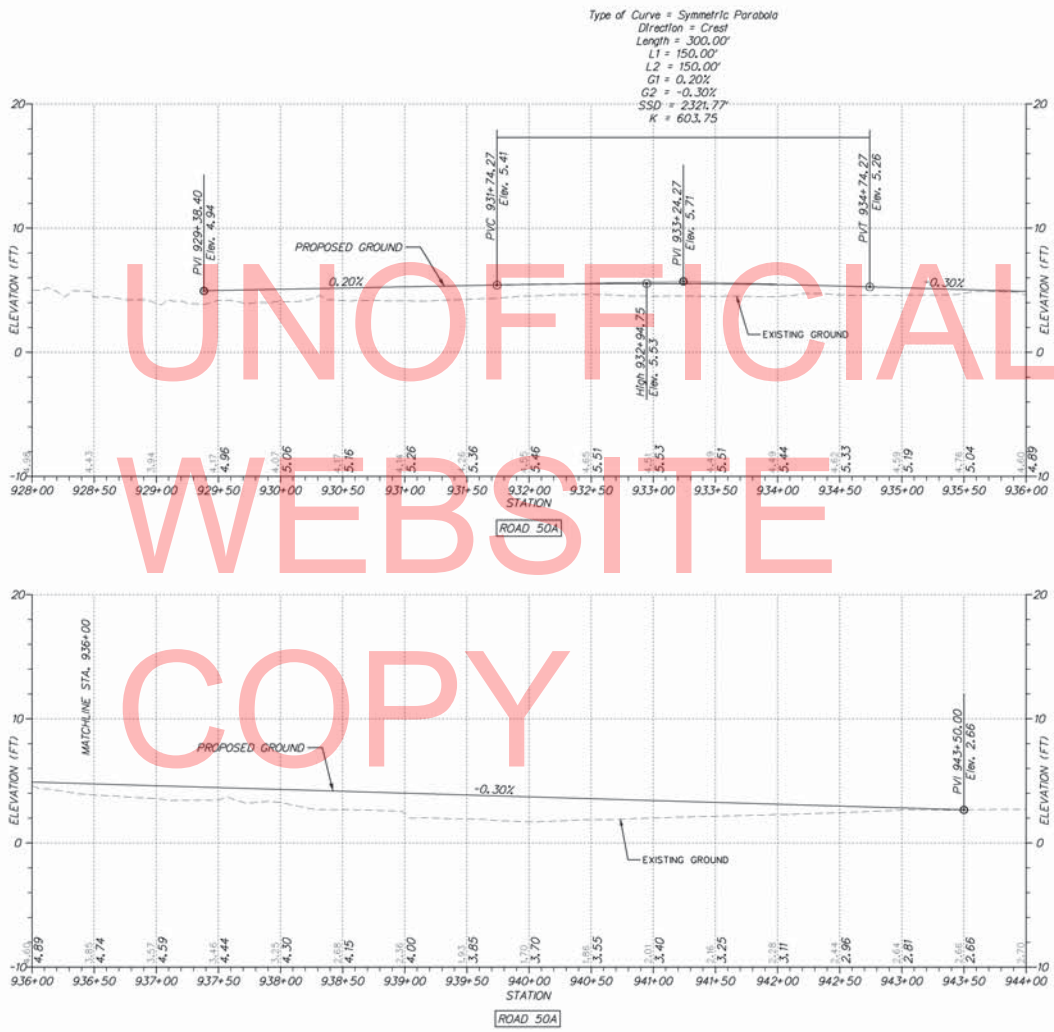

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VERTICAL SCALE FEET

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
\\BALSPVDC\PROJ\2009\09020_IRP\CADD\CONTRACTNUMBER\PLANS\PF06_IRP.DGN

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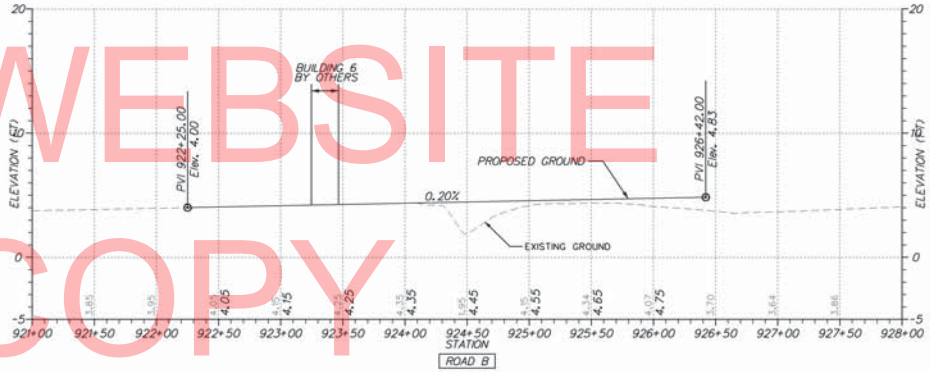

VERTICAL SCALE FEET 15 10 5 0

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

1/29/2013 7:41:20 PM
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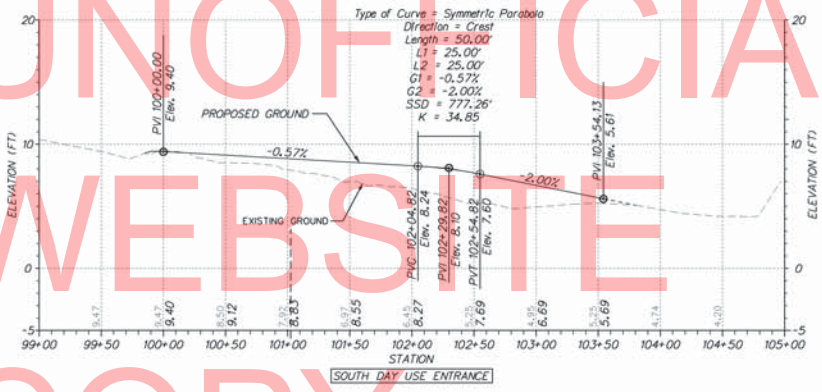

UNOFFICIAL WEBSITE COPY

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:

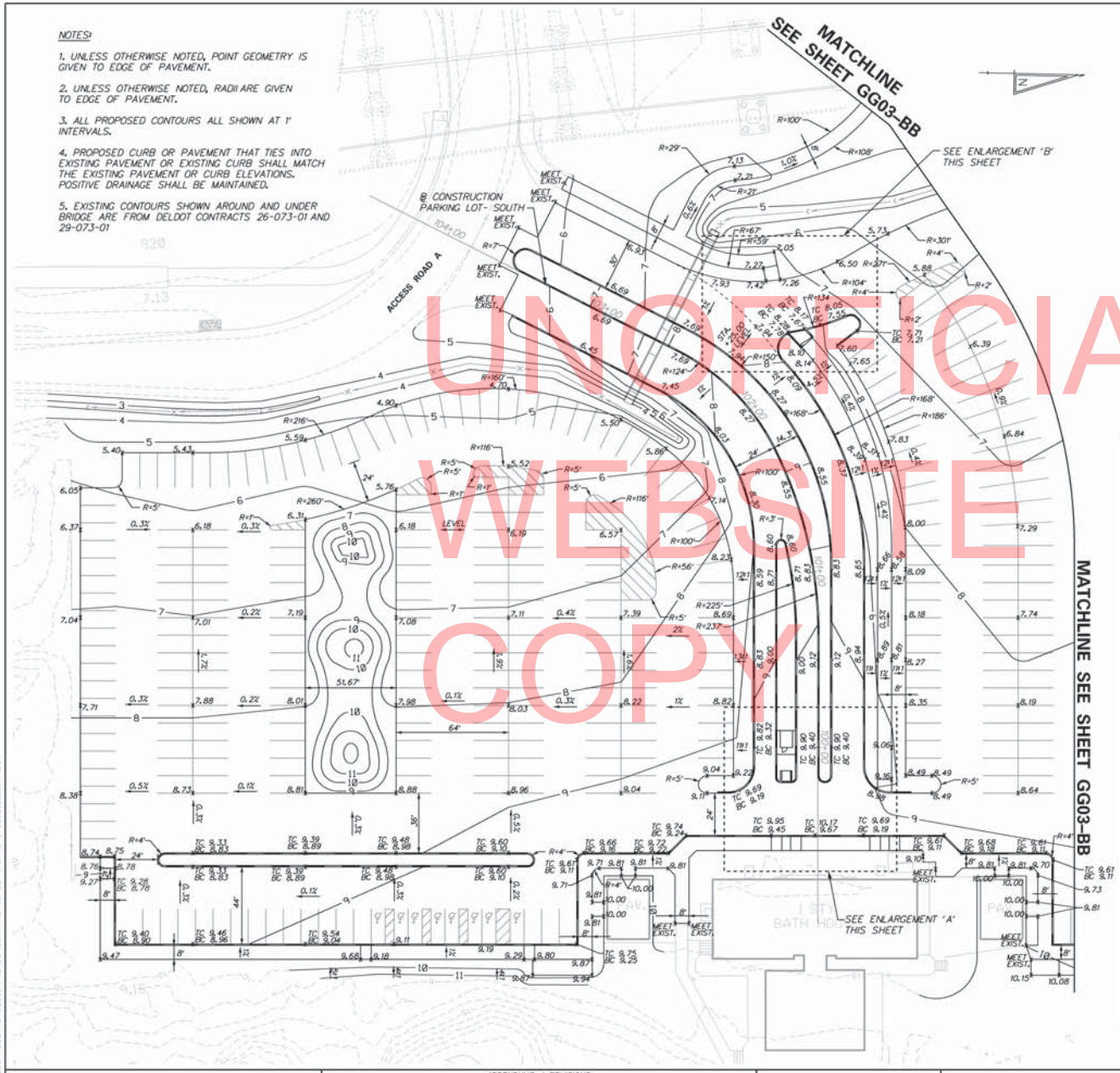
1. UNLESS OTHERWISE NOTED, POINT GEOMETRY IS GIVEN TO EDGE OF PAVEMENT.

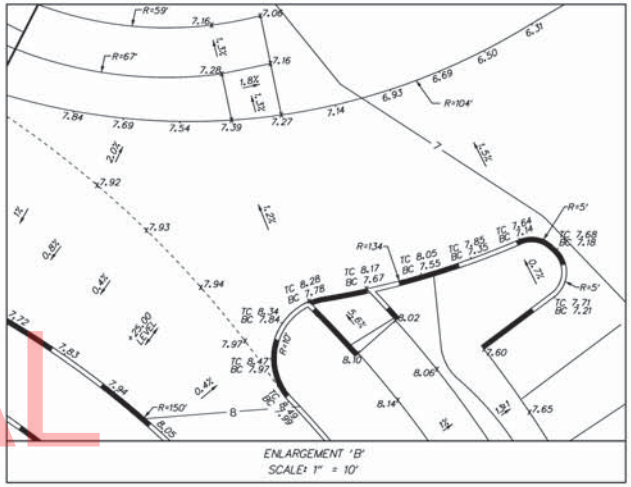
2. UNLESS OTHERWISE NOTED, RADII ARE GIVEN TO EDGE OF PAVEMENT.

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

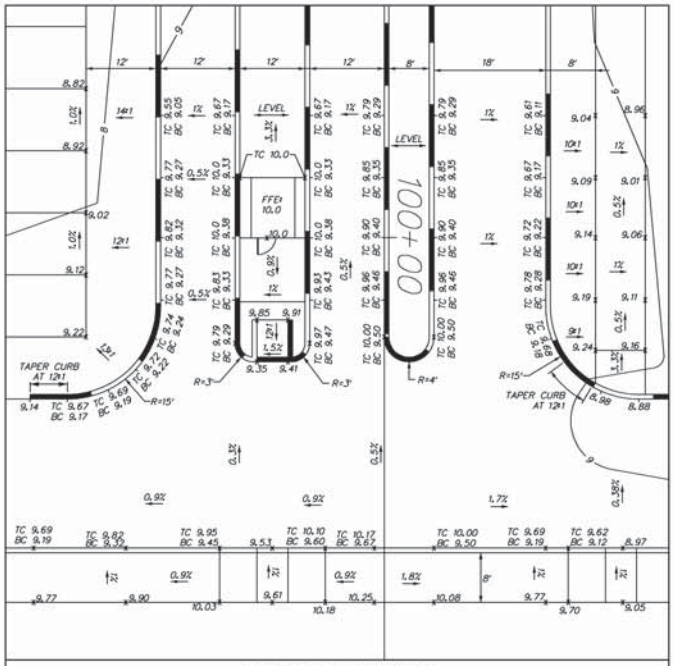
4. PROPOSED CURB OR PAVEMENT THAT TIES INTO EXISTING PAVEMENT OR EXISTING CURB SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS. POSITIVE DRAINAGE SHALL BE MAINTAINED.

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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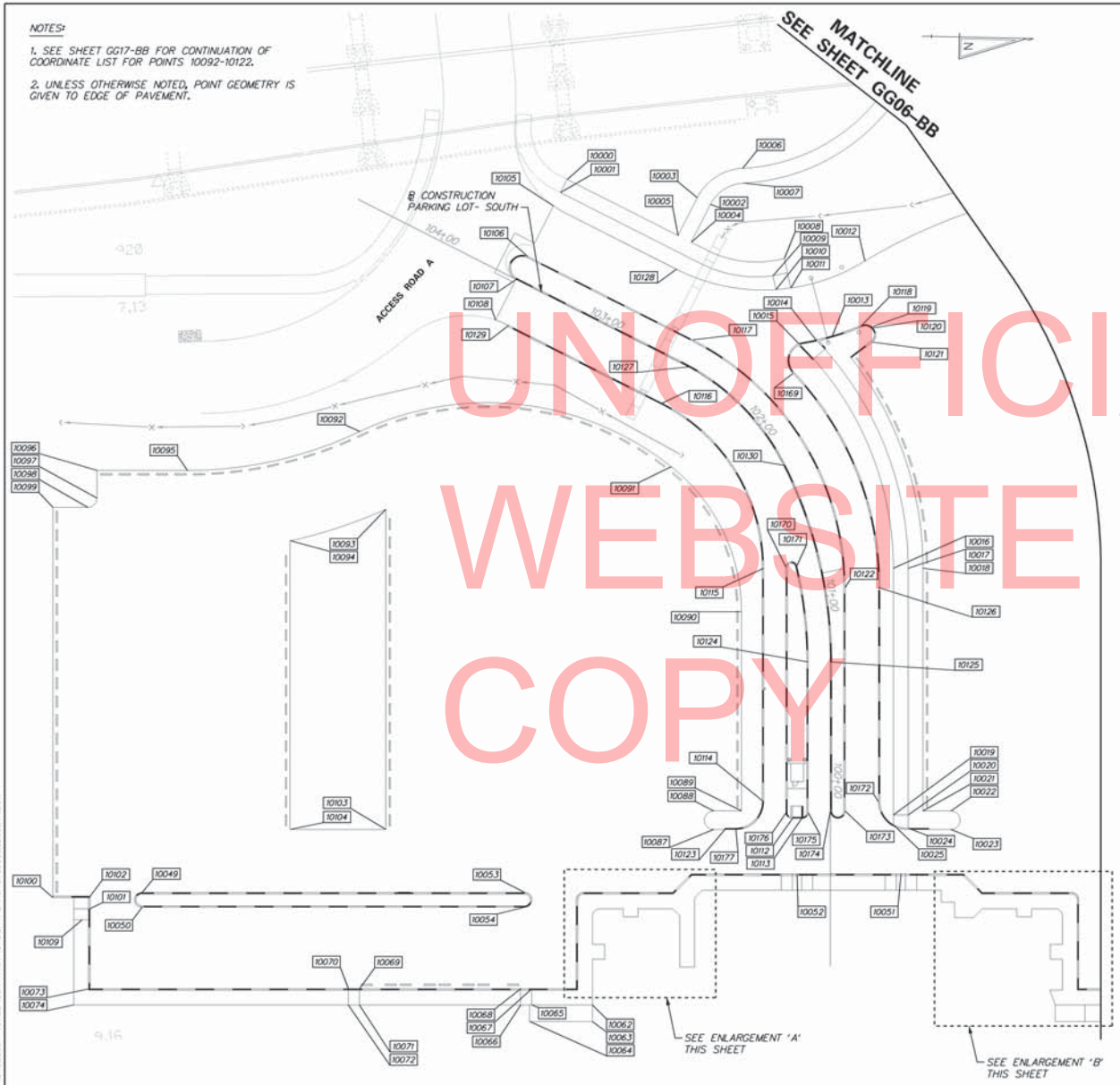
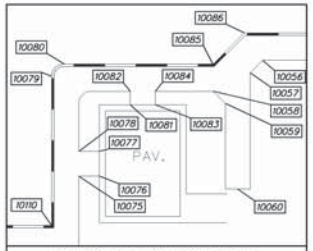
NOTES:

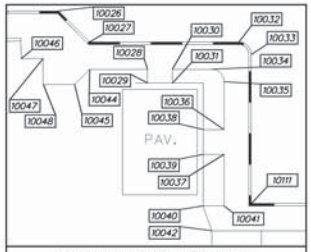
1. SEE SHEET GG17-BB FOR CONTINUATION OF COORDINATE LIST FOR POINTS 10092-10122.

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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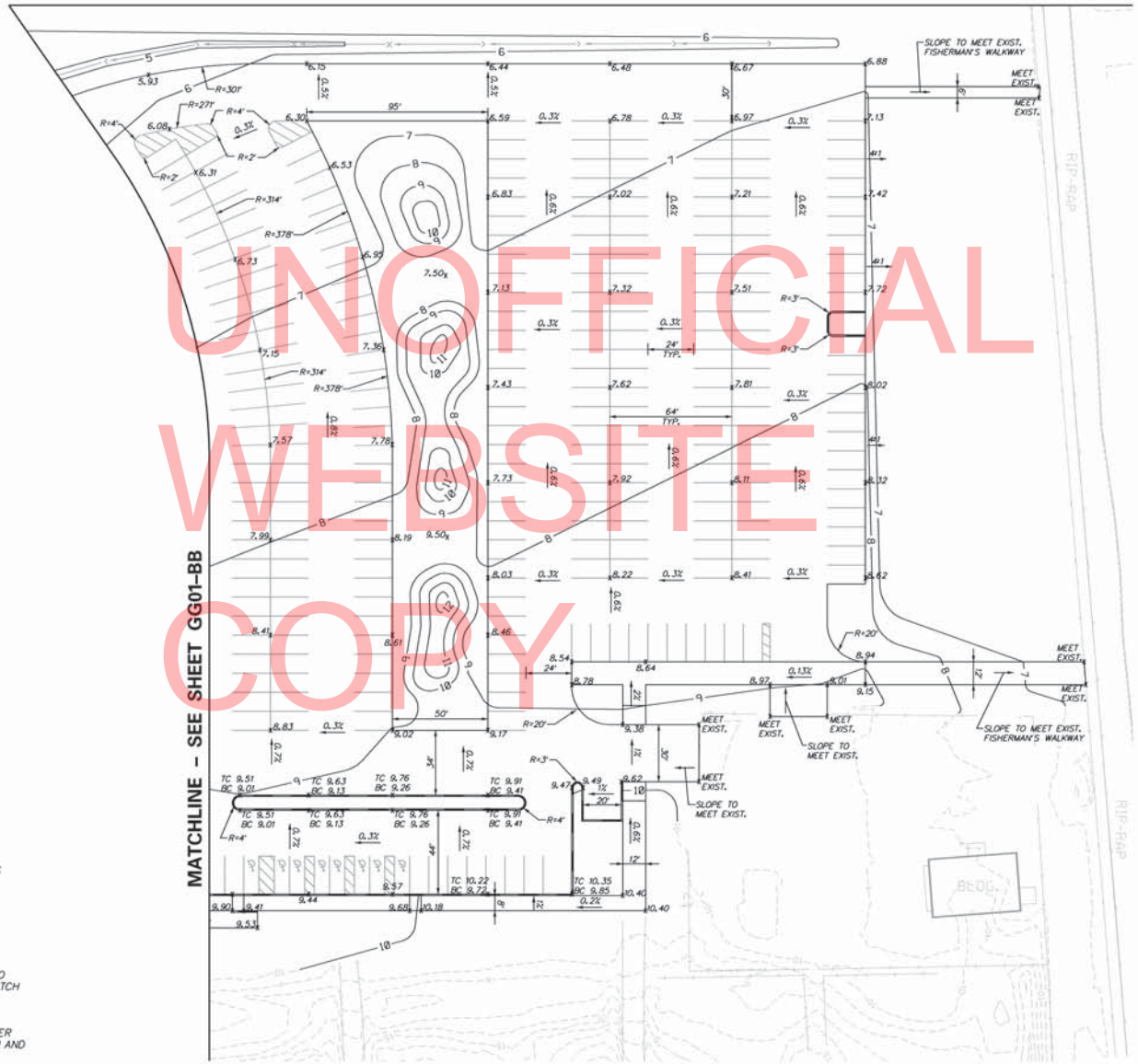
MATCHLINE – SEE SHEET GG03–BB



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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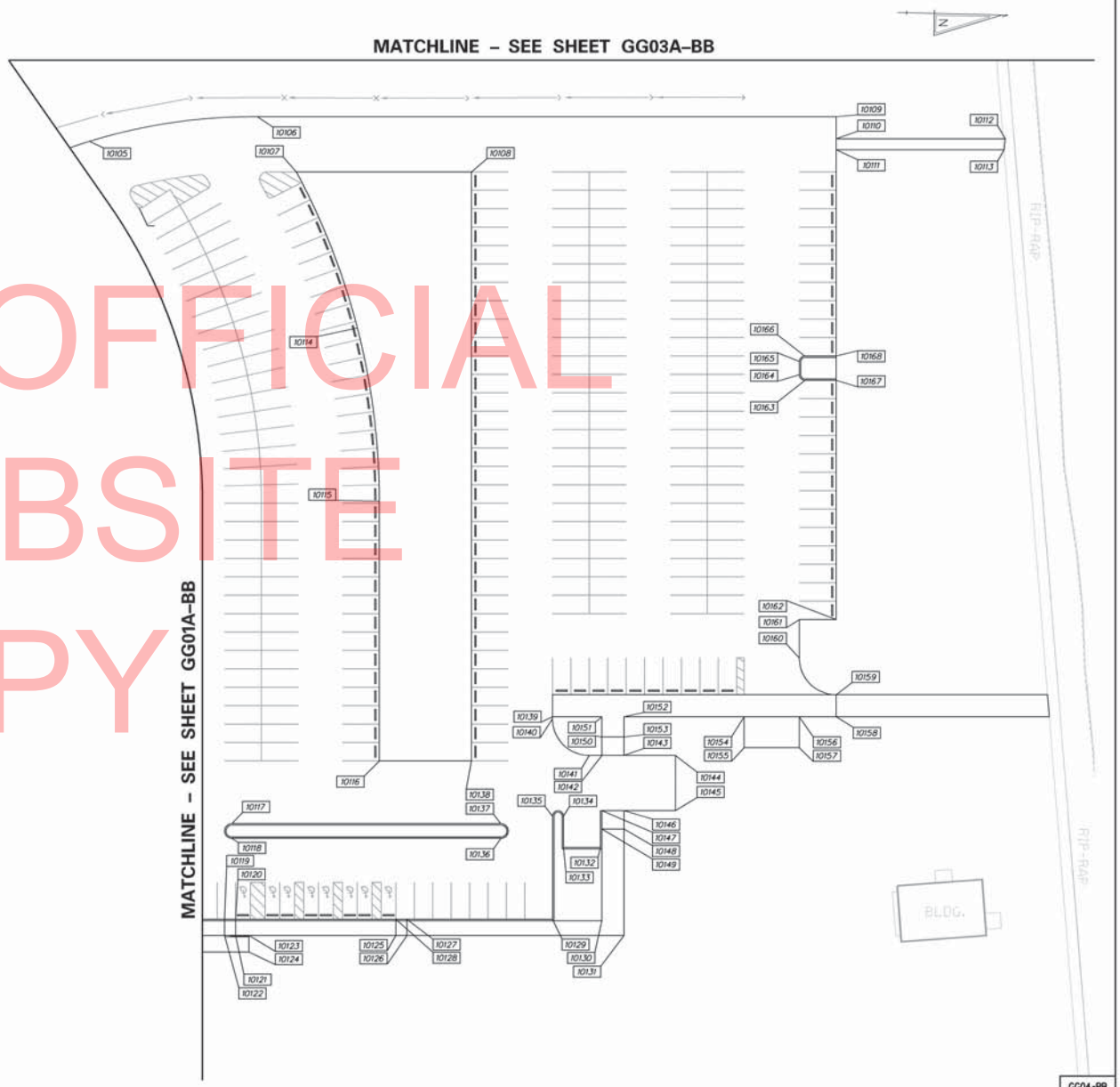
COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
10105	220907.41	757248.14	5.85
10106	220998.42	757232.78	6.04
10107	221020.16	757262.31	6.30
10108	221115.13	757260.25	6.59
10109	221312.43	757225.95	6.88
10110	221312.70	757237.94	6.98
10111	221312.83	757243.94	7.03
10112	221404.42	757235.95	MEET 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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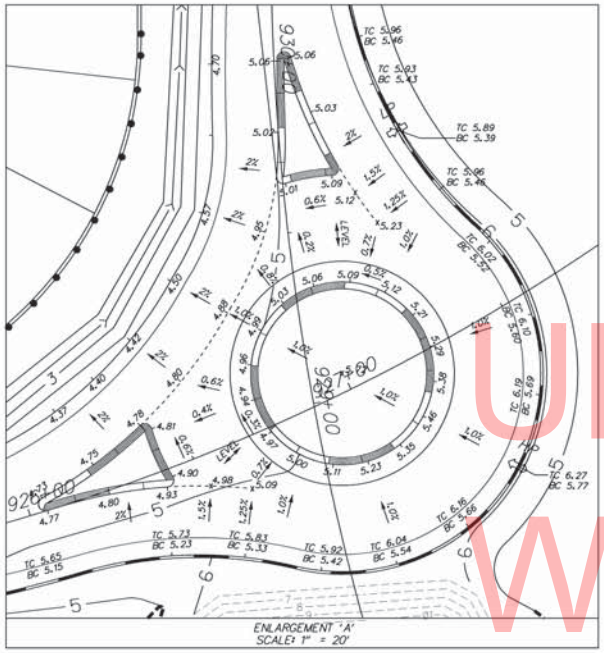

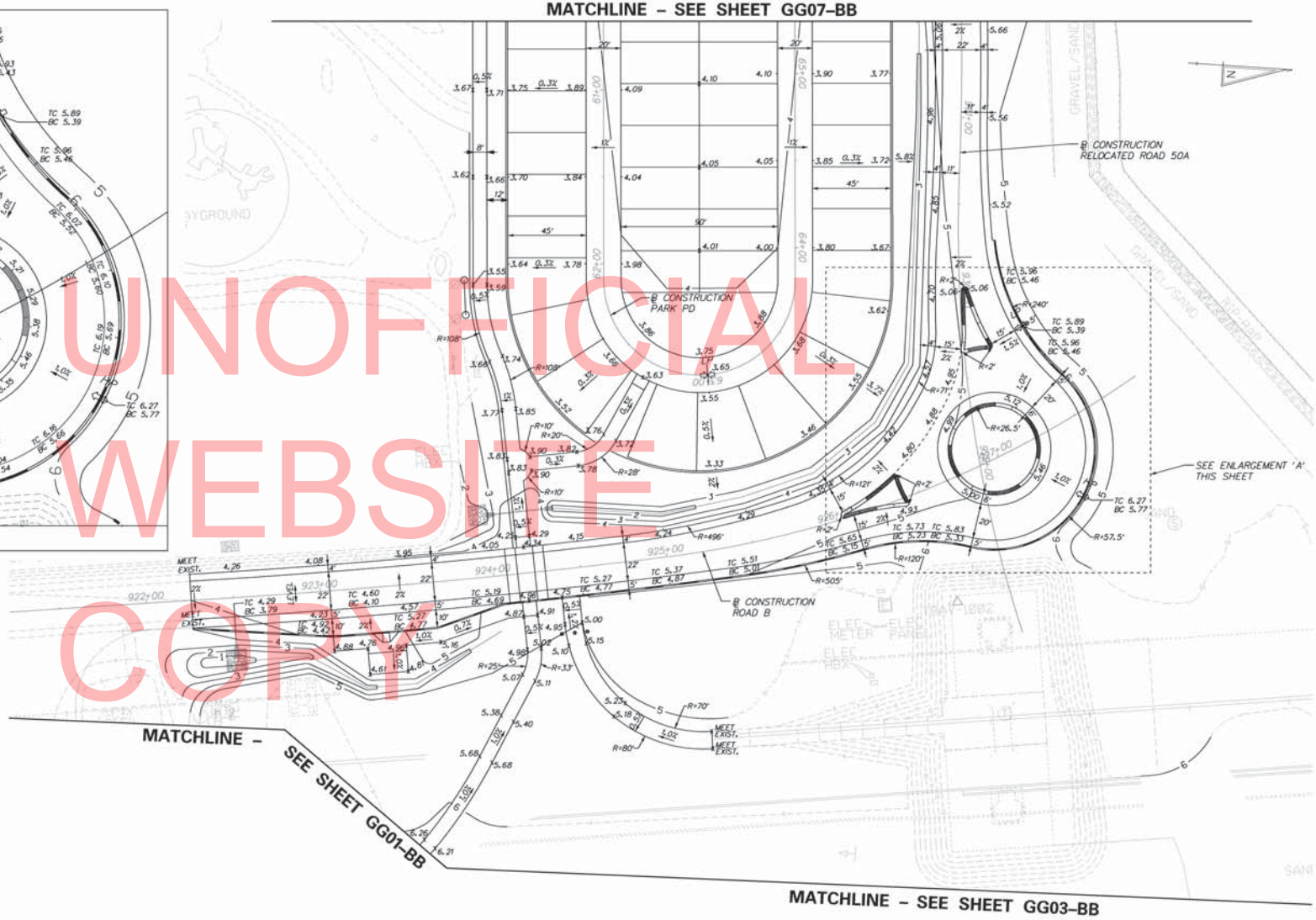

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NOTES:

1. UNLESS OTHERWISE NOTED, POINT GEOMETRY IS GIVEN TO EDGE OF PAVEMENT.
2. UNLESS OTHERWISE NOTED, RADII ARE GIVEN TO EDGE OF PAVEMENT.
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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)	GG05-BB
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 48
					CHECKED BY: RK&K		TOTAL SHTS. 282

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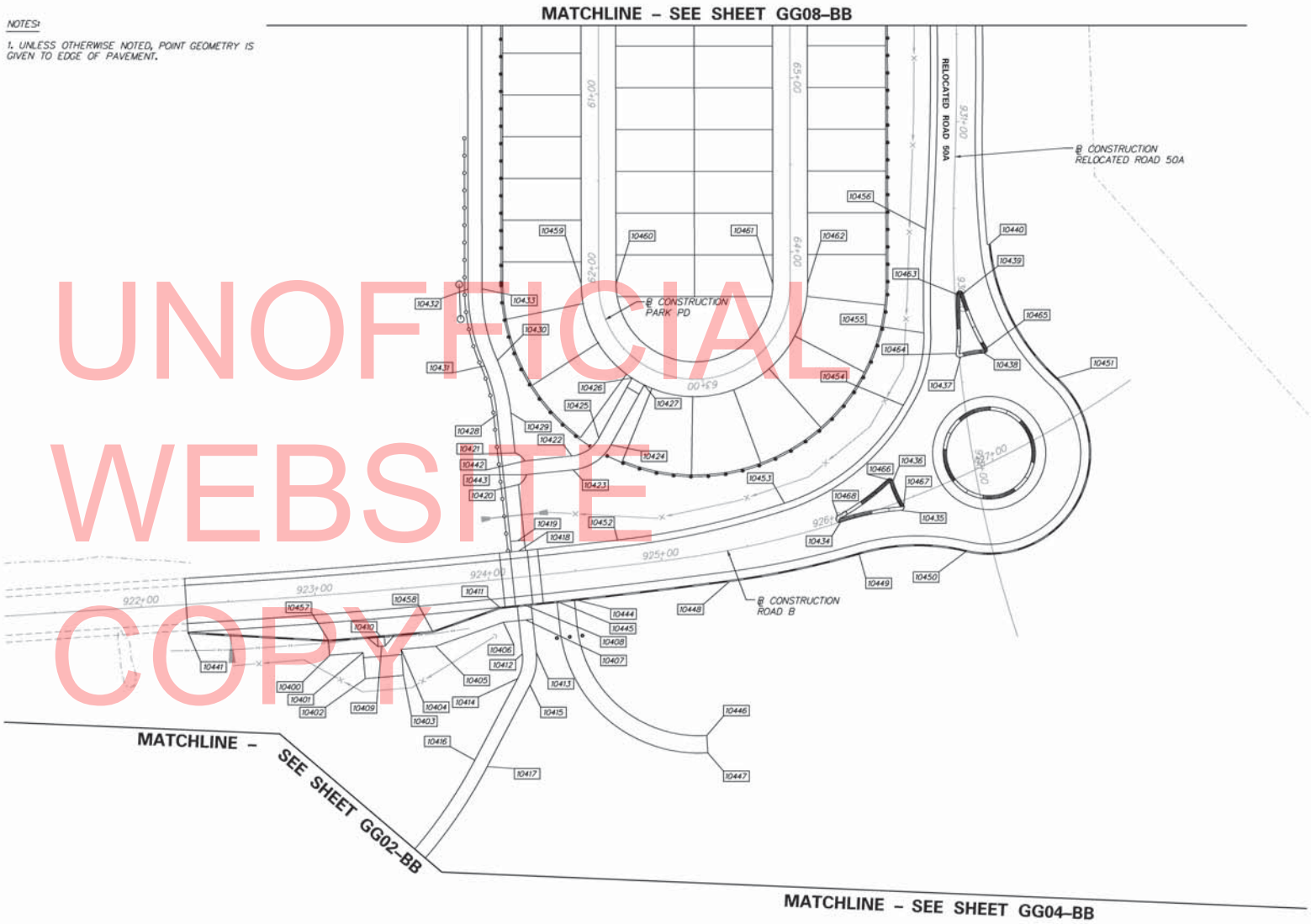
COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
10400	220790.27	757084.77	4.88
10401	220809.39	757082.01	4.76
10402	220811.61	757096.85	4.61
10403	220833.37	757093.60	4.81
10404	220831.15	757078.76	4.96
10405	220850.82	757075.72	5.16
10406	220888.67	757059.47	4.92
10407	220901.47	757057.31	4.89
10408	220900.00	757048.69	4.96
10409	220819.87	757077.68	4.86
10410	220818.73	757071.78	4.67
10411	220886.19	757051.01	4.73
10412	220900.75	757076.86	4.98
10413	220908.64	757075.52	5.02
10414	220898.95	757091.25	5.07
10415	220906.25	757094.50	5.11
10416	220877.38	757139.66	5.68
10417	220884.69	757142.91	5.68
10418	220894.77	757018.13	4.34
10419	220893.76	757012.22	4.21
10420	220892.32	756980.00	3.87
10421	220889.23	756961.93	3.87
10422	220921.90	756961.59	3.82
10423	220923.25	756969.48	3.78
10424	220943.84	756953.85	3.75
10425	220936.61	756950.43	3.76
10426	220953.53	756914.65	3.63
10427	220960.71	756918.19	3.62
10428	220877.45	756940.47	3.77
10429	220885.33	756939.12	3.85
10430	220875.68	756909.42	3.74
10431	220868.55	756913.06	3.66
10432	220856.26	756869.61	3.55
10433	220864.25	756869.09	3.59
10434	221078.28	756989.74	4.76
10435	221112.46	756980.73	4.83
10436	221106.85	756964.12	4.81
10437	221140.98	756890.63	4.98
10438	221154.32	756887.49	4.99
10439	221140.16	756853.91	5.06
10440	221153.19	756824.98	5.51
10441	220708.33	757076.74	4.32
10442	220895.19	756966.15	3.90
10443	220896.54	756974.04	3.90
10444	220928.58	757043.81	4.76
10445	220918.72	757045.49	4.75
10446	221009.38	757116.93	MEET EXIST.
10447	221010.68	757126.85	MEET EXIST.
10448	221016.53	757027.96	4.97
10449	221090.13	757007.42	5.17
10450	221151.03	757002.01	5.40
10451	221197.27	756899.08	5.51
10452	220951.16	757008.15	4.20
10453	221045.46	756980.92	4.31
10454	221109.88	756920.40	4.51
10455	221119.07	756878.11	4.64
10456	221116.23	756818.39	4.82
10457	220789.04	757076.11	4.16
10458	220848.38	757067.25	4.60
10459	220920.93	756862.44	3.72
10460	220940.89	756861.15	3.92
10461	221030.70	756855.30	3.93
10462	221050.66	756854.00	3.73
10463	221136.29	756854.72	5.06
10464	221138.29	756888.72	4.97
10465	221155.74	756884.38	4.99
10466	221103.49	756963.45	4.81
10467	221113.84	756977.60	4.83
10468	221076.45	756986.21	4.76

NOTES:

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



UNOFFICIAL WEBSITE COPY

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)

GG06-BB
SHEET NO. 49
TOTAL SHTS. 282

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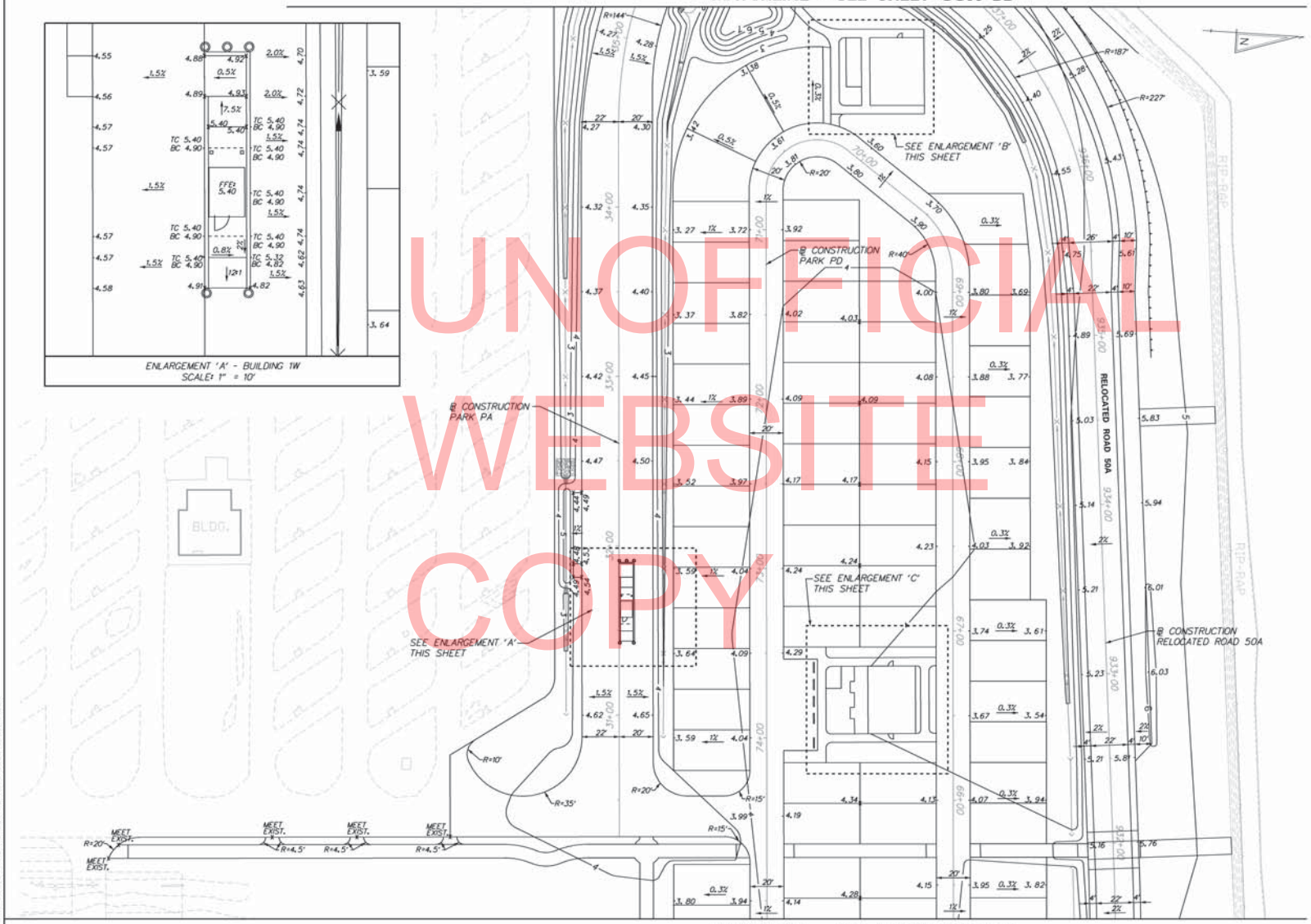
MATCHLINE – SEE SHEET GG09–BB



MATCHLINE – SEE SHEET GG05–BB

NOTES:

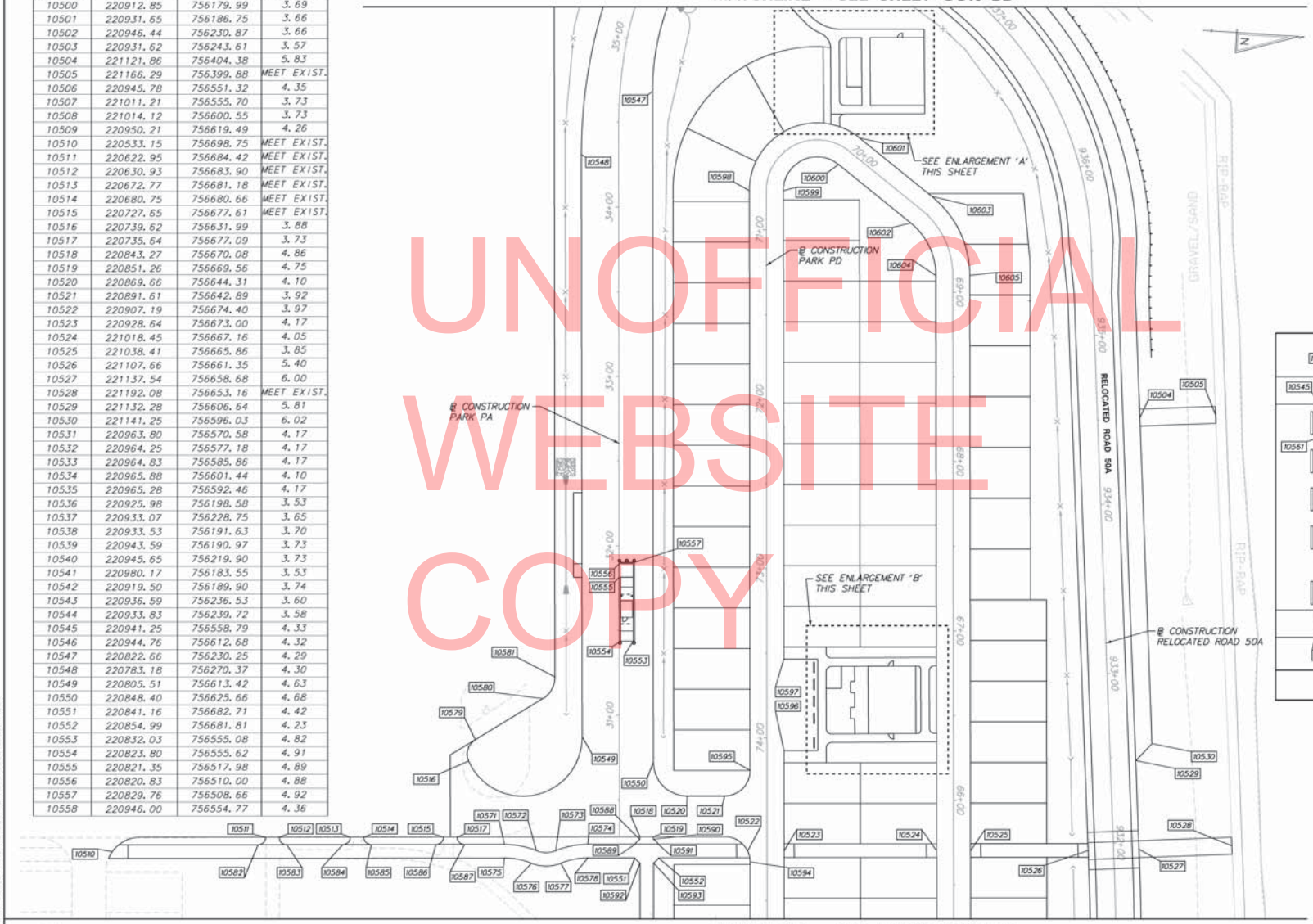
1. UNLESS OTHERWISE NOTED, POINT GEOMETRY IS GIVEN TO EDGE OF PAVEMENT.
2. UNLESS OTHERWISE NOTED, RADII ARE GIVEN TO EDGE OF PAVEMENT.
3. ALL PROPOSED CONTOURS ALL SHOWN AT 1' INTERVALS.
4. PROPOSED CURB OR PAVEMENT THAT TIES INTO EXISTING PAVEMENT OR EXISTING CURB SHALL MATCH THE EXISTING PAVEMENT 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

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)	GG07-BB
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 50
					CHECKED BY: RK&K		TOTAL SHTS. 282

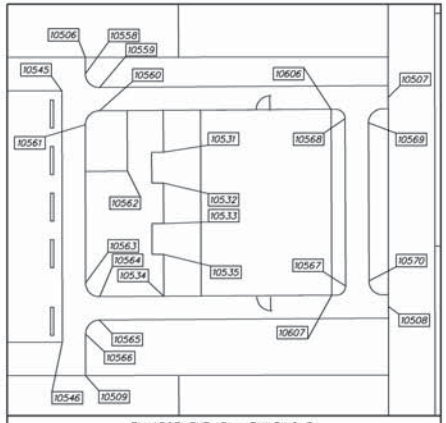
COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
10500	220912.85	756179.99	3.69
10501	220931.65	756186.75	3.66
10502	220946.44	756230.87	3.66
10503	220931.62	756243.61	3.57
10504	221121.86	756404.38	5.83
10505	221166.29	756399.88	MEET EXIST.
10506	220945.78	756551.32	4.35
10507	221011.21	756555.70	3.73
10508	221014.12	756600.55	3.73
10509	220950.21	756619.49	4.26
10510	220533.15	756698.75	MEET EXIST.
10511	220622.95	756684.42	MEET EXIST.
10512	220630.93	756683.90	MEET EXIST.
10513	220672.77	756681.18	MEET EXIST.
10514	220680.75	756680.66	MEET EXIST.
10515	220727.65	756677.61	MEET EXIST.
10516	220739.62	756631.99	3.88
10517	220735.64	756677.09	3.73
10518	220843.27	756670.08	4.86
10519	220851.26	756669.56	4.75
10520	220869.66	756644.31	4.10
10521	220891.61	756642.89	3.92
10522	220907.19	756674.40	3.97
10523	220928.64	756673.00	4.17
10524	221018.45	756667.16	4.05
10525	221038.41	756665.86	3.85
10526	221107.66	756661.35	5.40
10527	221137.54	756658.68	6.00
10528	221192.08	756653.16	MEET EXIST.
10529	221132.28	756606.64	5.81
10530	221141.25	756596.03	6.02
10531	220963.80	756570.58	4.17
10532	220964.25	756577.18	4.17
10533	220964.83	756585.86	4.17
10534	220965.88	756601.44	4.10
10535	220965.28	756592.46	4.17
10536	220925.98	756198.58	3.53
10537	220933.07	756228.75	3.65
10538	220933.53	756191.63	3.70
10539	220943.59	756190.97	3.73
10540	220945.65	756219.90	3.73
10541	220980.17	756183.55	3.53
10542	220919.50	756189.90	3.74
10543	220936.59	756236.53	3.60
10544	220933.83	756239.72	3.58
10545	220941.25	756558.79	4.33
10546	220944.76	756612.68	4.32
10547	220822.66	756230.25	4.29
10548	220783.18	756270.37	4.30
10549	220805.51	756613.42	4.63
10550	220848.40	756625.66	4.68
10551	220841.16	756682.71	4.42
10552	220854.99	756681.81	4.23
10553	220832.03	756555.08	4.82
10554	220823.80	756555.62	4.91
10555	220821.35	756517.98	4.89
10556	220820.83	756510.00	4.88
10557	220829.76	756508.66	4.92
10558	220946.00	756554.77	4.36

MATCHLINE – SEE SHEET GG10–BB

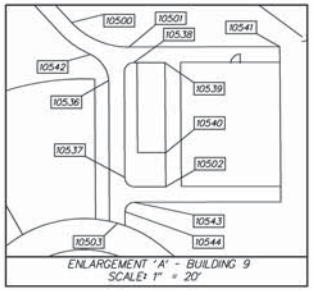


MATCHLINE – SEE SHEET GG06–BB

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
10559	220949.21	756557.57	4.38
10560	220949.50	756562.56	4.40
10561	220946.72	756565.75	4.41
10562	220956.34	756575.11	4.46
10563	220948.92	756599.61	4.43
10564	220952.12	756602.41	4.34
10565	220952.42	756607.40	4.31
10566	220949.63	756610.59	4.29
10567	221004.68	756596.71	3.76
10568	221002.26	756560.85	3.76
10569	221007.32	756561.48	3.74
10570	221009.60	756595.34	3.74
10571	220763.79	756679.73	3.85
10572	220782.91	756682.21	3.93
10573	220794.24	756681.47	3.99
10574	220812.88	756676.53	4.10
10575	220764.31	756687.71	3.83
10576	220780.37	756689.80	3.91
10577	220797.75	756688.66	3.97
10578	220813.40	756684.51	4.08



ENLARGEMENT 'B' - BUILDING 8
SCALE: 1" = 20'



ENLARGEMENT 'A' - BUILDING 9
SCALE: 1" = 20'

NOTES:

1. UNLESS OTHERWISE NOTED, POINT GEOMETRY IS GIVEN TO EDGE OF PAVEMENT.
2. SEE SHEET GG17-BB FOR CONTINUATION OF COORDINATE LIST FOR POINTS 10092-10122.

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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)

GG08-BB

SHEET NO. 51

TOTAL SHTS. 282

NOTES:

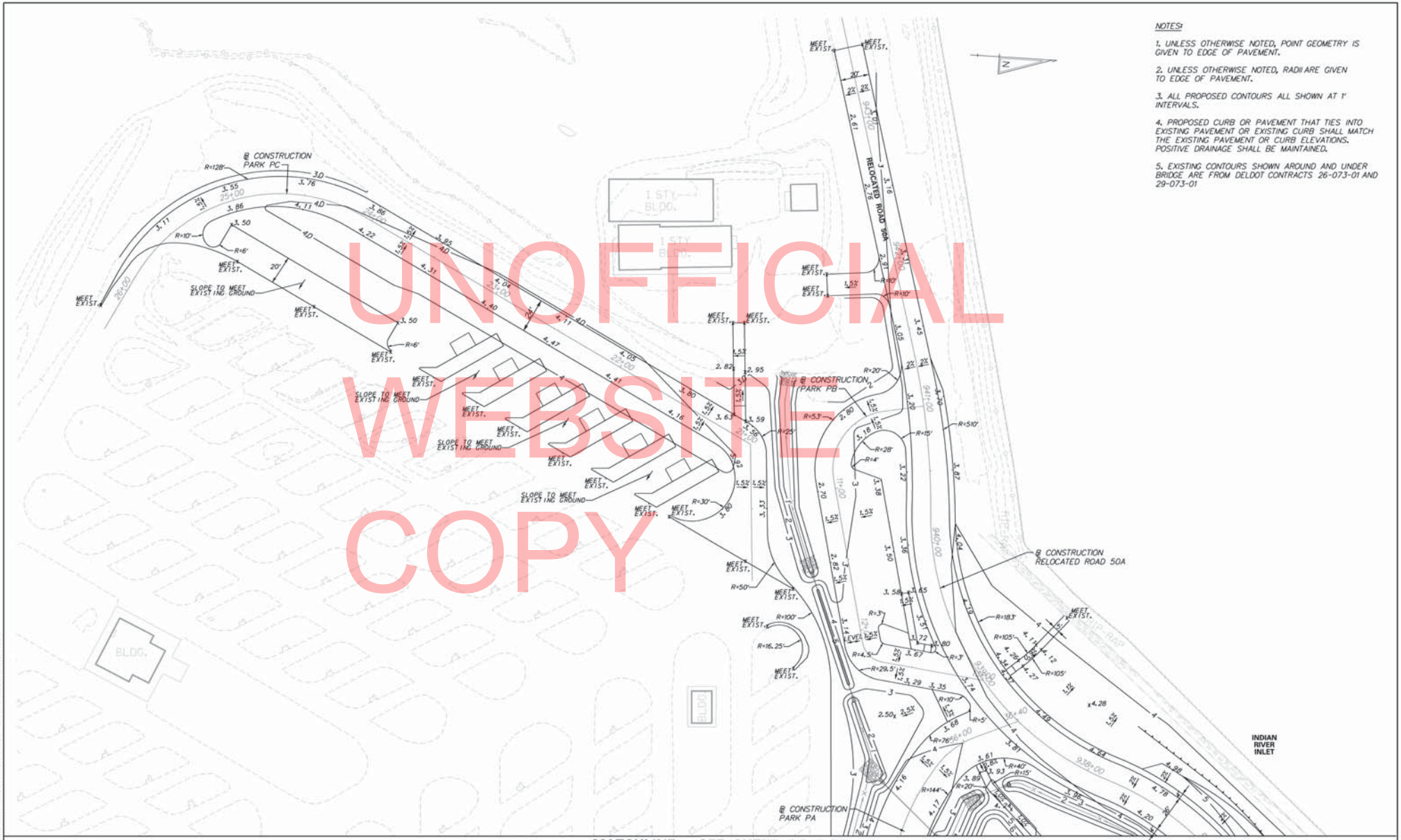
1. UNLESS OTHERWISE NOTED, POINT GEOMETRY IS GIVEN TO EDGE OF PAVEMENT.

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



UNOFFICIAL WEBSITE COPY

MATCHLINE – SEE SHEET GG07–BB

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)	GG09-BB
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 52
					CHECKED BY: RK&K		TOTAL SHTS. 282

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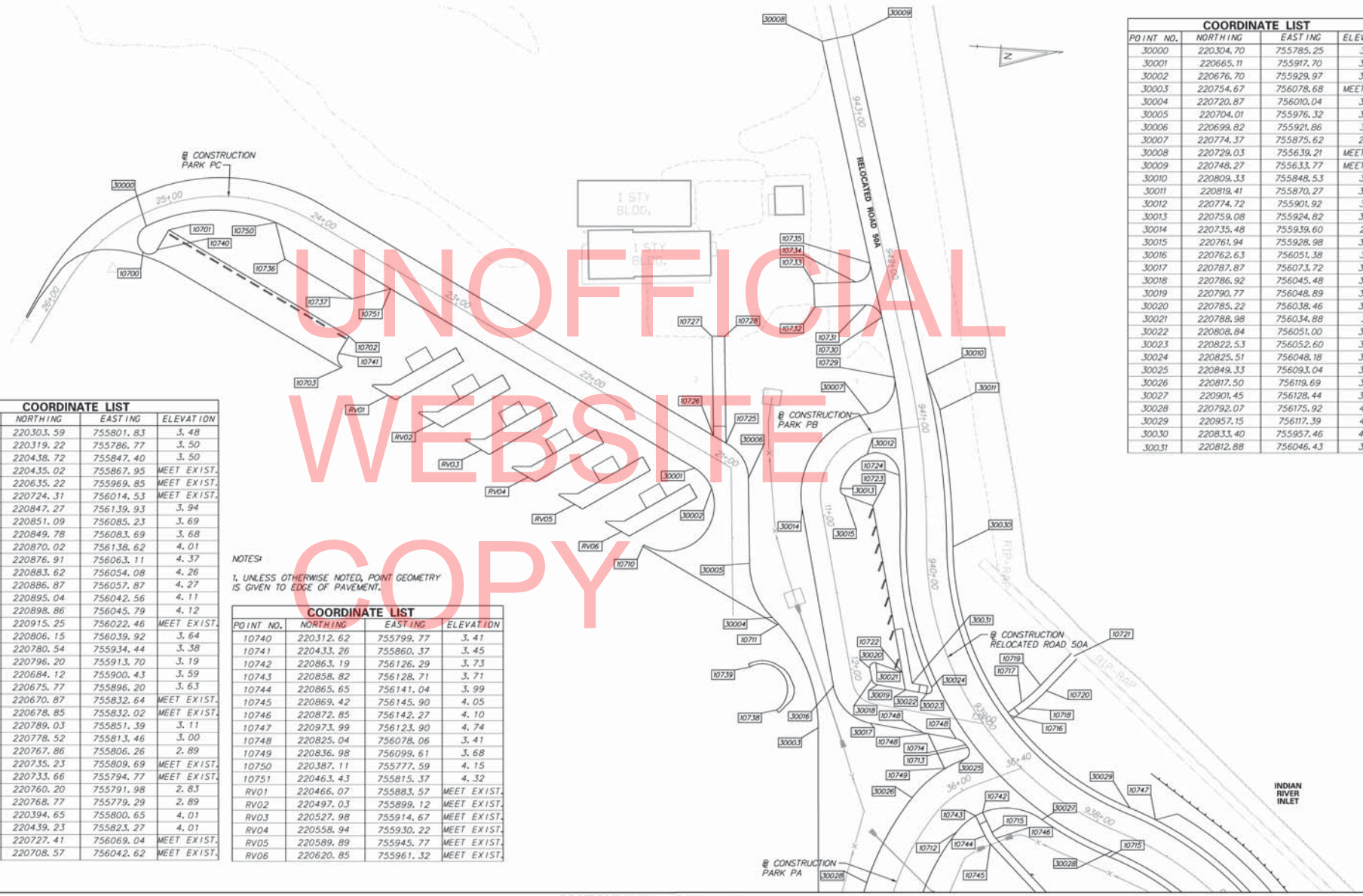

UNOFFICIAL WEBSITE COPY

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
10700	220303.59	755801.83	3.48
10701	220319.22	755786.77	3.50
10702	220438.72	755847.40	3.50
10703	220435.02	755867.95	MEET EXIST.
10710	220635.22	755969.85	MEET EXIST.
10711	220724.31	756014.53	MEET EXIST.
10712	220847.27	756139.93	3.94
10713	220851.09	756085.23	3.69
10714	220849.78	756083.69	3.68
10715	220870.02	756138.62	4.01
10716	220876.91	756063.11	4.37
10717	220883.62	756054.08	4.26
10718	220886.87	756057.87	4.27
10719	220895.04	756042.56	4.11
10720	220898.86	756045.79	4.12
10721	220915.25	756022.46	MEET EXIST.
10722	220806.15	756039.92	3.64
10723	220780.54	755934.44	3.38
10724	220796.20	755913.70	3.19
10725	220684.12	755900.43	3.59
10726	220675.77	755896.20	3.63
10727	220670.87	755832.64	MEET EXIST.
10728	220678.85	755832.02	MEET EXIST.
10729	220789.03	755851.39	3.11
10730	220778.52	755813.46	3.00
10731	220767.86	755806.26	2.89
10732	220735.23	755809.69	MEET EXIST.
10733	220733.66	755794.77	MEET EXIST.
10734	220760.20	755791.98	2.83
10735	220768.77	755779.29	2.89
10736	220394.65	755800.65	4.01
10737	220439.23	755823.27	4.01
10738	220727.41	756069.04	MEET EXIST.
10739	220708.57	756042.62	MEET EXIST.

NOTES:

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

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
10740	220312.62	755799.77	3.41
10741	220433.26	755860.37	3.45
10742	220863.19	756126.29	3.73
10743	220858.82	756128.71	3.71
10744	220865.65	756141.04	3.99
10745	220869.42	756145.90	4.05
10746	220872.85	756142.27	4.10
10747	220973.99	756123.90	4.74
10748	220825.04	756078.06	3.41
10749	220836.98	756099.61	3.68
10750	220387.11	755777.59	4.15
10751	220463.43	755815.37	4.32
RV01	220466.07	755883.57	MEET EXIST.
RV02	220497.03	755899.12	MEET EXIST.
RV03	220527.98	755914.67	MEET EXIST.
RV04	220558.94	755930.22	MEET EXIST.
RV05	220589.89	755945.77	MEET EXIST.
RV06	220620.85	755961.32	MEET EXIST.

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
30000	220304.70	755785.25	3.71
30001	220665.11	755917.70	3.99
30002	220676.70	755929.97	3.92
30003	220754.67	756078.68	MEET EXIST.
30004	220720.87	756010.04	3.40
30005	220704.01	755976.32	3.39
30006	220699.82	755921.86	3.61
30007	220774.37	755875.62	2.85
30008	220729.03	755639.21	MEET EXIST.
30009	220748.27	755633.77	MEET EXIST.
30010	220809.33	755848.53	3.51
30011	220819.41	755870.27	3.68
30012	220774.72	755901.92	3.18
30013	220759.08	755924.82	3.03
30014	220735.48	755939.60	2.71
30015	220761.94	755928.98	3.00
30016	220762.63	756051.38	3.16
30017	220787.87	756073.72	3.07
30018	220786.92	756045.48	3.35
30019	220790.77	756048.89	3.45
30020	220785.22	756038.46	3.33
30021	220788.98	756034.88	3.4
30022	220808.84	756051.00	3.55
30023	220822.53	756052.60	3.65
30024	220825.51	756048.18	3.65
30025	220849.33	756093.04	3.65
30026	220817.50	756119.69	3.94
30027	220901.45	756128.44	3.87
30028	220792.07	756175.92	4.13
30029	220957.15	756117.39	4.13
30030	220833.40	755957.46	4.73
30031	220812.88	756046.43	3.98

MATCHLINE – SEE SHEET GG08–BB

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 STAKEOUT PLAN (BASE BID)	GG10-BB
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 53
					CHECKED BY: RK&K		TOTAL SHTS. 282

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MATCHLINE – SEE SHEET GG13–BB

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

UNOFFICIAL WEBSITE COPY

ENLARGEMENT 'A' - BUILDING 2 - ADMINISTRATION CONTACT STATION
SCALE: 1" = 10'

TYPICAL NORTH RV LOT SIDEWALK DETAIL

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 GRADING PLAN (BASE BID)

GG11_BB
SHEET NO. 54
TOTAL SHTS. 282

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COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
20000	222073.28	756534.49	10.10
20001	222075.53	756557.31	10.12
20002	222073.68	756557.92	10.03
20003	222072.81	756556.47	9.98
20004	222065.96	756560.60	9.86
20005	222068.73	756568.96	10.03
20006	222074.98	756581.36	10.11
20007	222075.48	756586.33	10.11
20008	222071.77	756599.63	10.03
20009	222070.67	756608.40	9.86
20010	222078.20	756611.12	9.98
20011	222078.79	756609.49	10.03
20012	222080.72	756609.73	10.12
20013	222089.28	756645.47	10.02
20014	222091.97	756642.19	* 9.96
20017	222083.61	756580.51	9.57
20018	222084.10	756585.48	9.57
20019	222096.06	756764.79	9.70
20020	222087.67	756621.54	9.53

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
20021	222084.31	756645.96	10.12
20022	222133.81	756704.63	9.07
20023	222099.09	756744.61	9.74
20024	222094.12	756745.10	9.84
20025	222098.65	756790.95	9.70
20026	222094.17	756796.42	9.80
20027	222061.18	756799.68	9.75
20028	222061.97	756807.64	9.83
20029	222095.14	756804.36	9.80
20030	222097.44	756827.58	9.80
20031	222064.29	756831.11	9.80
20032	222073.71	756838.22	9.88
20033	222089.63	756836.64	9.88
20034	222098.07	756835.81	9.80
20035	222103.53	756840.29	9.70
20036	222109.23	756839.40	9.10
20037	222107.84	756883.76	10.58
20038	222028.19	756840.10	8.11
20039	222032.74	756833.52	8.21

*TOP OF CURB

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
20040	222034.74	756834.03	8.30
20041	222035.53	756841.99	8.20
20042	222158.33	756888.81	9.15
20043	222195.15	756885.17	8.44
20044	222194.16	756875.21	8.54
20045	222687.22	756859.59	MEET EXIST.
20046	222699.16	756858.41	MEET EXIST.
20047	222787.56	756770.64	6.20
20048	222778.78	756765.84	6.28
20049	222426.73	756666.38	8.15
20050	222426.34	756662.40	8.15
20051	222102.37	756747.30	* 9.67
20055	222370.98	756597.56	8.33
20056	222363.02	756598.38	8.35
20057	221967.81	756788.70	4.80
20058	221963.26	756795.29	4.77
20059	222113.56	756883.19	9.98
20060	222108.82	756893.71	10.68
20061	222114.54	756893.14	9.98

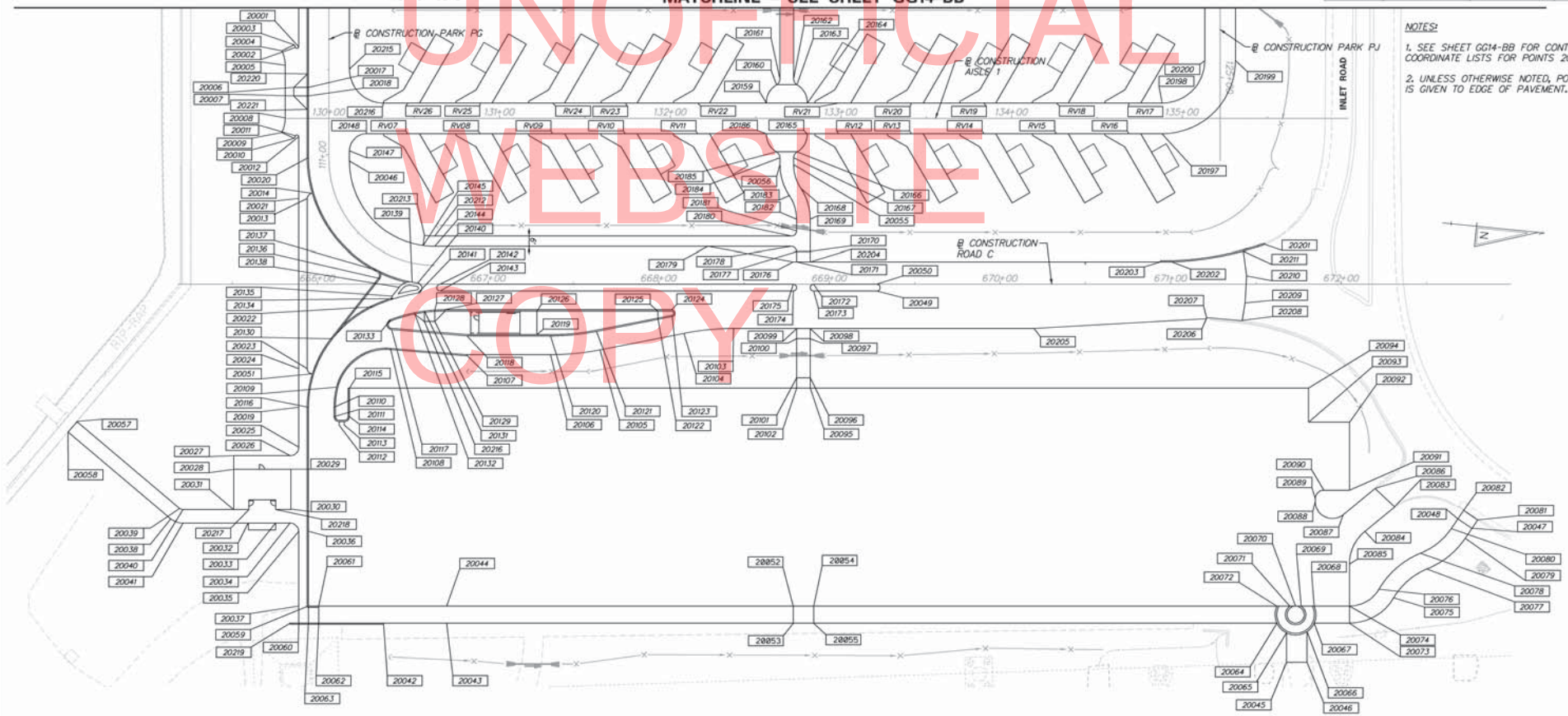
COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
20062	222120.51	756892.55	10.08
20063	222114.54	756893.14	10.58
20064	222679.34	756837.26	7.97
20065	222685.52	756842.45	7.88
20066	222697.38	756840.43	7.88
20067	222701.05	756835.11	7.97
20068	222700.07	756825.16	8.02
20069	222692.51	756825.90	8.04
20070	222689.22	756826.23	8.05
20071	222685.91	756826.56	8.04
20072	222678.36	756827.31	8.02
20073	222721.58	756833.08	7.85
20074	222720.59	756823.13	7.95
20075	222745.89	756815.74	7.44
20076	222736.80	756811.57	7.54
20077	222763.61	756797.04	6.78
20078	222758.96	756788.19	6.88
20079	222784.21	756776.77	6.32
20080	222775.43	756771.97	6.42

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
RV07	222144.13	756601.84	9.13
RV08	222186.42	756597.66	8.99
RV09	222228.71	756593.47	8.85
RV10	222271.01	756589.29	8.71
RV11	222313.30	756585.10	8.57
RV12	222395.62	756576.96	8.30
RV13	222437.92	756572.77	8.16
RV14	222480.21	756568.59	8.02
RV15	222522.50	756564.40	7.88
RV16	222564.80	756560.22	7.74
RV17	222563.02	756542.31	7.74
RV18	222520.73	756546.49	7.88
RV19	222478.44	756550.68	8.02
RV20	222436.14	756554.86	8.16
RV21	222393.85	756559.05	8.30
RV22	222311.53	756567.19	8.57
RV23	222269.24	756571.38	8.71
RV24	222226.94	756575.56	8.85
RV25	222184.65	756579.75	8.99
RV26	222142.36	756583.93	9.13

MATCHLINE – SEE SHEET GG14-BB



NOTES:

1. SEE SHEET GG14-BB FOR CONTINUATION OF COORDINATE LISTS FOR POINTS 20100-20211.
2. 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

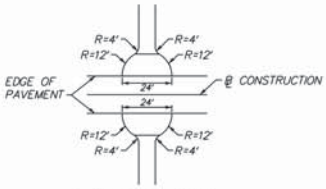
CONTRACT	BRIDGE NO.	X
T200507303	DESIGNED BY: RK&K	
COUNTY		
SUSSEX	CHECKED BY: RK&K	

GRADES AND GEOMETRICS STAKEOUT PLAN (BASE BID)

GG12-BB

SHEET NO. 55

TOTAL SHTS. 282

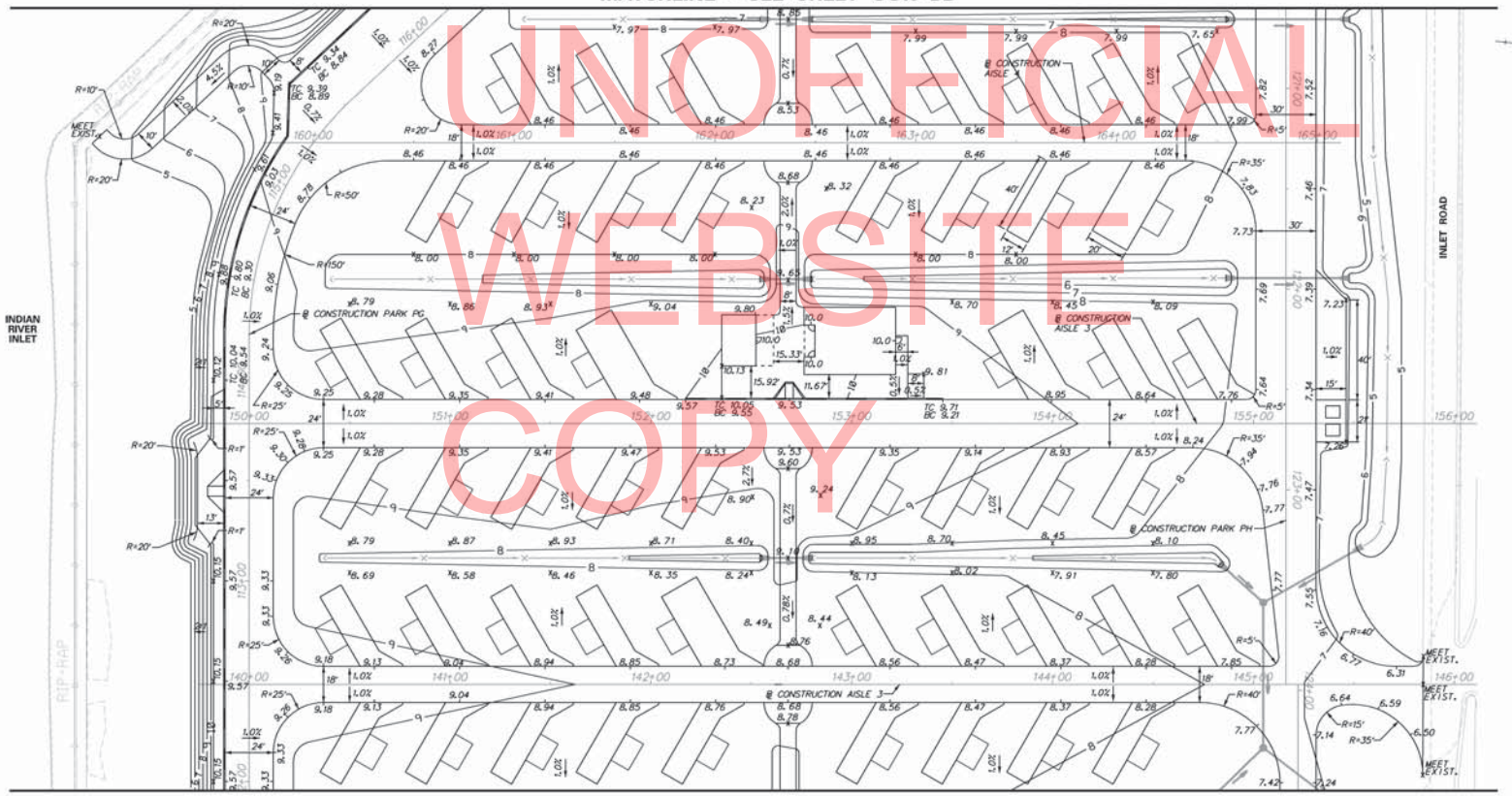


TYPICAL NORTH RV LOT SIDEWALK DETAIL

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

MATCHLINE – SEE SHEET GG15-BB



MATCHLINE – SEE SHEET GG11-BB

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)	GG13-BB
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 56
					CHECKED BY: RK&K		TOTAL SHTS. 282

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NOTES:

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

2. SEE SHEET GG14-BB FOR CONTINUATION OF COORDINATE LIST FOR POINTS RV27-RV77

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
20300	221980.49	756210.28	4.26
20301	221987.05	756202.73	4.27
20302	221982.28	756211.83	4.36
20303	221988.84	756204.28	4.37
20304	222010.50	756209.84	5.59
20305	222002.94	756203.28	5.17
20306	222047.18	756167.57	8.16
20307	222039.63	756161.02	7.72
20308	222061.29	756166.57	9.00
20309	222067.84	756159.02	9.00
20311	222068.98	756160.01	9.07
20312	222064.71	756169.55	9.20
20313	222074.40	756159.45	9.20
20314	222075.56	756171.42	8.89
20315	222069.47	756196.33	9.41

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
20316	222077.29	756197.08	8.84
20317	222068.42	756201.50	9.44
20318	222145.49	756149.93	8.27
20319	222162.52	756183.00	8.46
20323	222312.42	756168.17	8.46
20324	222317.34	756157.02	8.53
20325	222318.99	756153.38	8.55
20326	222326.95	756152.59	8.55
20327	222329.29	756155.84	8.53
20328	222336.30	756165.80	8.46
20334	222551.16	756144.54	7.81
20335	222555.64	756139.08	7.81
20336	222561.35	756196.79	7.73
20337	222523.07	756165.41	8.46
20342	222338.07	756183.72	8.46

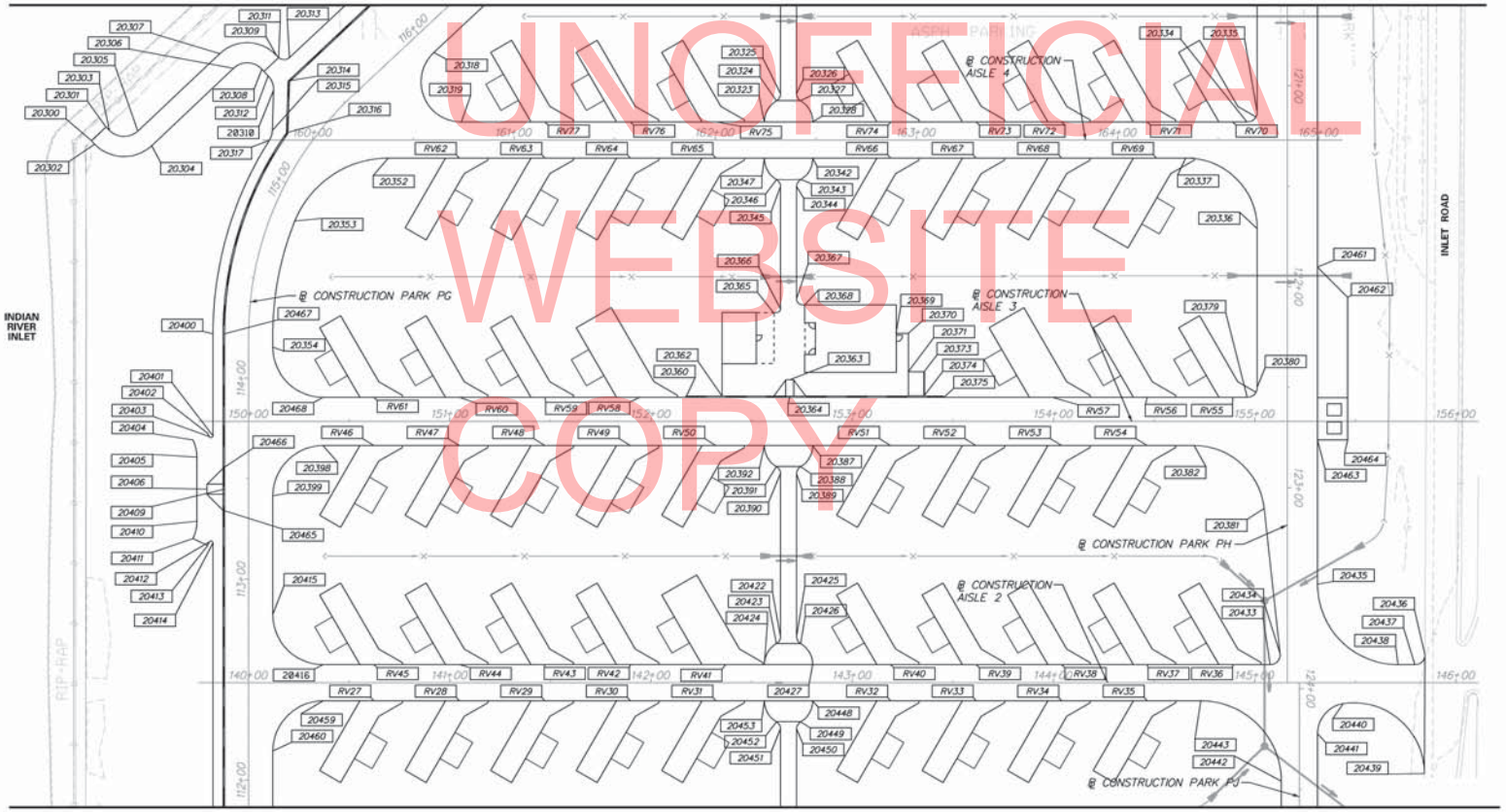
COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
20343	222333.14	756194.84	8.68
20344	222331.50	756198.49	8.72
20345	222323.53	756199.27	8.72
20346	222321.20	756196.02	8.68
20347	222314.19	756186.08	8.46
20352	222128.06	756204.49	8.46
20353	222085.00	756240.20	8.88
20354	222080.33	756303.68	9.24
20355	222107.51	756326.11	9.25
20360	222287.10	756308.34	9.57
20361	222330.45	756303.29	9.56
20362	222304.94	756305.82	9.55
20363	222337.60	756294.63	10.04
20364	222338.45	756303.26	9.53
20365	222326.53	756262.10	9.71

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
20366	222329.52	756259.80	9.68
20367	222337.00	756254.16	9.68
20368	222341.28	756256.75	9.78
20369	222388.04	756266.36	10.00
20370	222394.01	756265.77	9.94
20371	222395.89	756284.76	9.85
20373	222403.85	756283.98	9.81
20374	222405.03	756295.92	9.26
20375	222414.51	756295.71	9.21
20379	222564.67	756280.88	7.60
20380	222569.13	756275.41	7.62
20381	222578.47	756334.95	7.77
20382	222540.78	756307.36	8.24
20387	222352.15	756326.02	9.52
20388	222347.21	756336.98	9.60
20389	222345.56	756340.62	9.44
20390	222337.60	756341.41	9.44
20391	222335.27	756338.16	9.47
20392	222328.27	756328.38	9.53
20398	222110.04	756349.98	9.25
20399	222087.62	756377.32	9.33
20400	222050.08	756300.06	10.00
20401	222055.07	756350.45	10.12
20402	222052.20	756349.39	10.08
20403	222053.22	756351.07	10.04
20404	222045.36	756353.55	9.92
20405	222048.17	756361.95	10.01
20406	222054.71	756377.29	9.96
20409	222063.33	756376.44	9.57
20410	222051.30	756393.62	10.01
20411	222050.21	756402.39	9.92
20412	222058.38	756403.29	10.08
20413	222057.73	756405.10	10.04
20414	222060.32	756403.54	10.12
20415	222093.43	756436.03	9.33
20416	222120.77	756458.45	9.18
20422	222345.59	456422.14	8.78
20423	222343.94	756425.78	8.75
20424	222338.99	756436.72	8.76
20425	222353.55	756421.35	8.76
20426	222355.88	756424.60	8.76
20427	222362.87	756434.35	8.65
20433	222589.11	756412.11	7.39
20434	222593.51	756406.10	7.36
20435	222608.63	756369.98	7.55
20436	222665.20	756399.58	MEET EXIST.
20437	222660.72	756405.02	6.15
20438	222652.38	756405.85	6.31
20439	222670.71	756458.48	MEET EXIST.
20440	222627.12	756427.85	6.64
20441	222615.94	756443.85	7.14
20442	222600.37	756469.28	7.42
20443	222556.63	756433.41	8.11
20448	222364.66	756452.40	8.78
20449	222359.71	756463.32	8.78
20450	222358.06	756466.97	8.80
20451	222350.10	756467.76	8.80
20452	222347.77	756464.51	8.67
20453	222340.78	756454.77	8.70
20459	222122.54	756476.36	9.18
20460	222100.13	756503.70	9.33
20461	222593.10	756212.98	7.40
20462	222609.50	756226.43	7.23
20463	222601.57	756298.57	7.40
20464	222616.49	756297.09	7.26
20465	222063.70	756386.95	9.57
20466	222061.64	756366.05	9.57
20467	222055.80	756299.49	9.44
20468	222107.67	756326.09	9.25

MATCHLINE – SEE SHEET GG16-BB



MATCHLINE – SEE SHEET GG12-BB

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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)

GG14-BB

SHEET NO. 57

TOTAL SHTS. 282

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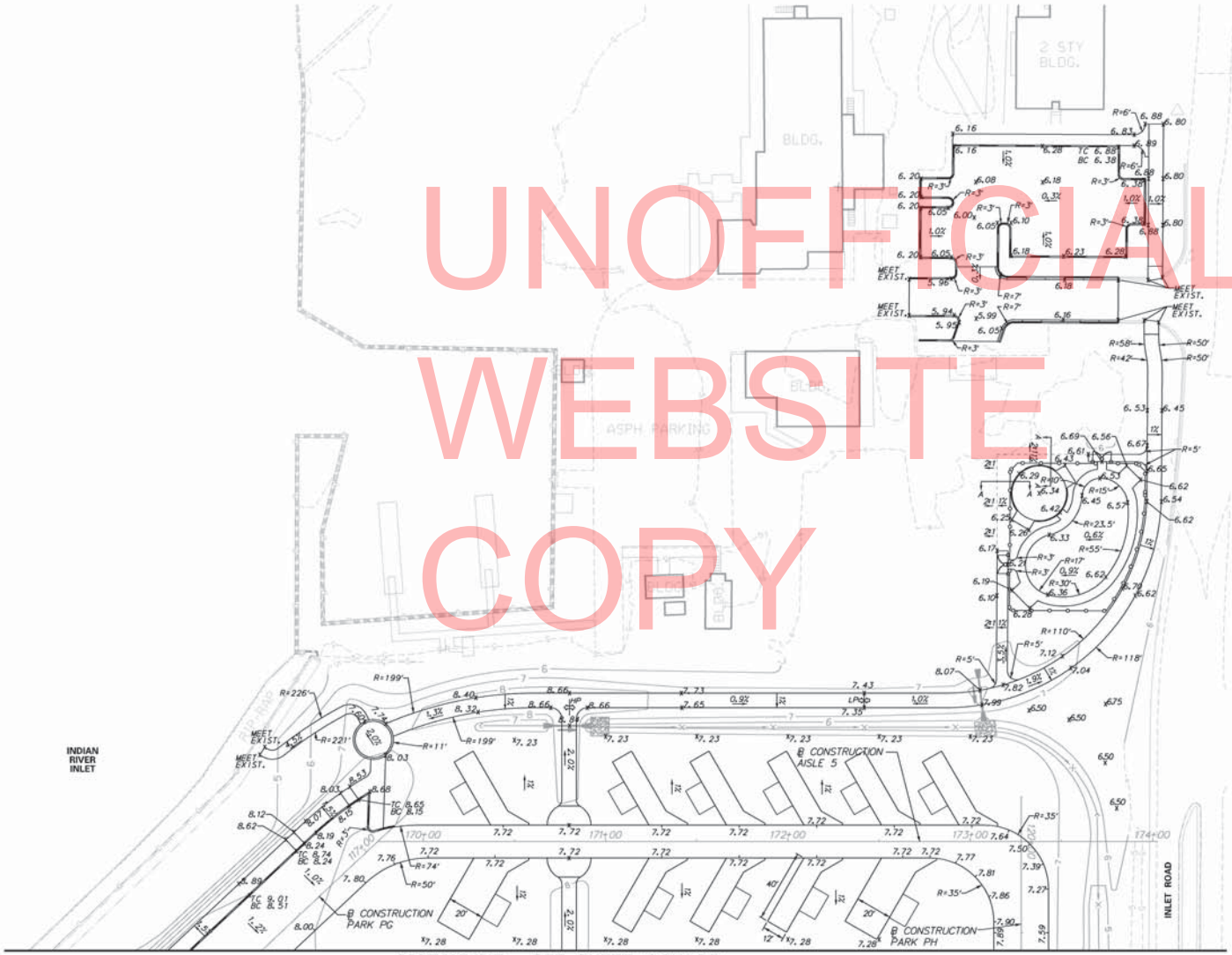
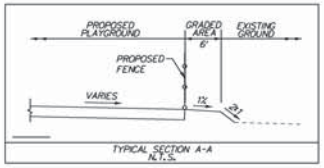


MATCHLINE – SEE SHEET GG13–BB



TYPICAL SECTION A-A
N.T.S.

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)	GG15-BB
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 58
					CHECKED BY: RK&K		TOTAL SHTS. 282

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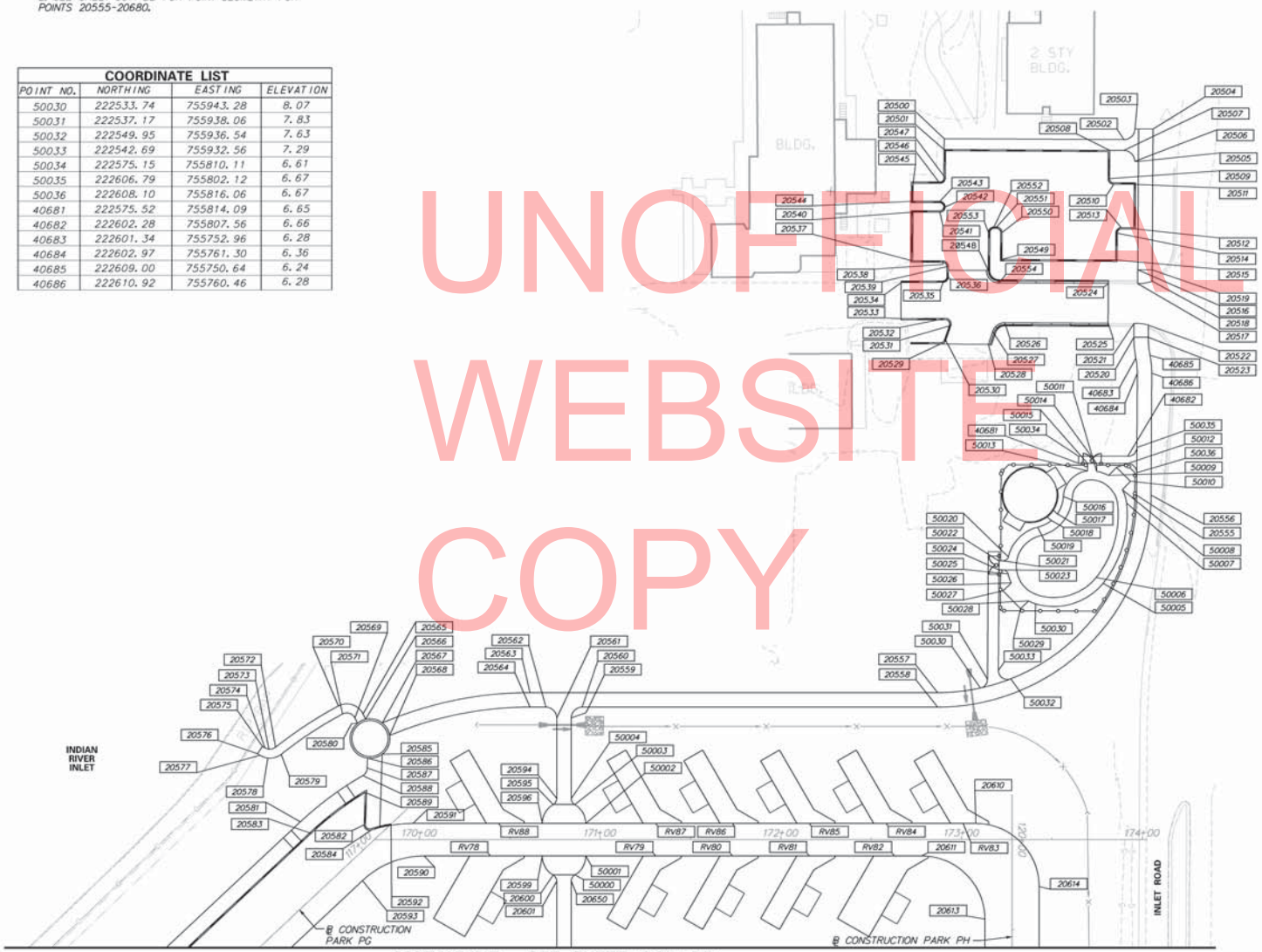
NOTES:

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

2. SEE SHEET GG14-BB FOR POINT GEOMETRY FOR POINTS 20555-20680.

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
50030	222533.74	755943.28	8.07
50031	222537.17	755938.06	7.83
50032	222549.95	755936.54	7.63
50033	222542.69	755932.56	7.29
50034	222575.15	755810.11	6.61
50035	222606.79	755802.12	6.67
50036	222608.10	755816.06	6.67
40681	222575.52	755814.09	6.65
40682	222602.28	755807.56	6.66
40683	222601.34	755752.96	6.28
40684	222602.97	755761.30	6.36
40685	222609.00	755750.64	6.24
40686	222610.92	755760.46	6.28



MATCHLINE – SEE SHEET GG14-BB

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
20500	222483.86	755642.48	6.13
20501	222484.42	755648.45	6.16
20502	222582.92	755633.19	6.83
20503	222588.35	755626.74	6.80
20504	222598.30	755625.81	6.80
20505	222592.02	755644.48	6.90
20506	222590.03	755644.66	6.90
20507	222583.48	755639.17	6.89
20508	222575.60	755639.91	6.88
20509	222576.32	755655.66	6.28
20510	222579.59	755658.36	6.28
20511	222590.96	755657.30	6.38
20512	222593.20	755681.19	6.38
20513	222586.23	755681.85	6.28
20514	222583.52	755685.11	6.28
20515	222584.92	755700.05	6.18
20516	222597.62	755704.21	6.30
20517	222598.33	755711.85	6.27
20518	222606.16	755709.62	6.27
20519	222605.58	755703.47	6.30
20520	222599.11	755741.58	6.20
20521	222598.39	755733.94	6.17
20522	222606.44	755734.11	6.17
20523	222607.07	755740.83	6.20
20524	222582.13	755713.37	5.90
20525	222584.19	755735.27	6.21
20526	222527.24	755740.61	6.07
20527	222521.07	755746.00	6.05
20528	222519.36	755753.40	MEET EXIST.
20529	222493.07	755755.86	MEET EXIST.
20530	222495.71	755753.56	5.99
20531	222497.67	755745.11	5.95
20532	222494.43	755741.45	5.94
20533	222469.86	755744.05	MEET EXIST.
20534	222467.96	755724.14	MEET EXIST.
20535	222491.00	755721.70	5.96
20536	222493.67	755718.40	5.99
20537	222473.09	755711.54	6.20
20538	222489.80	755709.97	6.05
20539	222493.06	755712.64	6.20
20540	222470.57	755684.65	6.20
20541	222485.50	755683.25	6.05
20542	222488.13	755680.02	6.04
20543	222484.94	755677.28	6.05
20544	222470.01	755678.68	6.20
20545	222469.07	755668.72	6.20
20546	222483.93	755667.33	6.10
20547	222486.63	755664.06	6.08
20548	222515.29	755712.60	6.10
20549	222522.20	755705.93	6.10
20550	222520.80	755690.99	6.10
20551	222517.53	755688.29	6.08
20552	222516.04	755688.43	6.07
20553	222513.33	755691.69	6.05
20554	222521.92	755719.01	6.06
RV78	222273.14	756062.52	7.72
RV79	222364.16	756053.51	7.72
RV80	222406.45	756049.33	7.72
RV81	222448.75	756045.14	7.72
RV82	222495.64	756040.51	7.72
RV83	222531.56	756018.86	7.72
RV84	222489.27	756023.05	7.72
RV85	222446.97	756027.23	7.72
RV86	222404.68	756031.42	7.72
RV87	222362.39	756035.60	7.72
RV88	222275.97	756044.15	7.72

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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)

GG16-BB | SHEET NO. 59 | TOTAL SHTS. 282

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COORDINATE LIST SHEET GG02-BB (CONT.)

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
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	9.20
10090	220779.62	757469.99	8.64
10091	220740.02	757392.45	5.76
10092	220571.46	757377.09	4.99
10093	220586.46	757418.74	5.26
10094	220535.17	757436.95	6.31
10095	220479.01	757400.12	5.44
10096	220430.12	757401.18	5.40
10097	220430.44	757416.18	5.78
10098	220425.55	757421.29	5.95
10099	220406.81	757421.69	6.05
10100	220411.16	757621.65	8.73
10101	220422.41	757621.40	8.74
10102	220431.15	757621.21	8.75
10103	220590.22	757591.75	8.88
10104	220538.56	757592.87	8.81
10105	220673.44	757252.96	MEET EXIST.
10106	220660.18	757280.50	MEET EXIST.
10107	220654.13	757293.13	MEET EXIST.
10108	220643.50	757315.28	MEET EXIST.
10109	220427.28	757644.05	9.28
10110	220694.89	757675.49	9.25
10112	220809.54	757580.97	9.35
10113	220814.54	7578580.86	9.41
10114	220793.85	757572.31	9.27
10115	220791.10	757446.21	8.48
10116	220734.37	757358.22	7.38
10117	220750.21	757323.67	7.62
10118	220841.09	757313.77	7.14
10119	220846.51	757314.60	7.18
10120	220847.16	757313.18	7.18
10121	220846.90	757322.84	7.21
10122	220835.32	757455.66	8.83
10123	220773.18	757587.76	9.12
10124	220816.20	757496.35	8.91
10125	220828.20	757496.09	9.03
10126	220853.31	757455.27	8.63
10127	220748.21	757338.31	7.69
10128	220740.37	757285.68	7.33
10129	220650.51	757318.01	6.00
10130	220800.72	757390.38	8.40

COORDINATE LIST SHEET GG08-BB (CONT.)

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
10579	220742.73	756619.15	5.85
10580	220780.89	756592.40	3.83
10581	220787.25	756579.15	4.17
10582	220618.79	756689.16	MEET EXIST.
10583	220635.67	756688.07	MEET EXIST.
10584	220668.61	756685.92	MEET EXIST.
10585	220685.49	756684.82	MEET EXIST.
10586	220723.49	756682.35	MEET EXIST.
10587	220740.38	756681.25	MEET EXIST.
10588	220843.37	756671.61	4.80
10589	220840.64	756674.72	4.70
10590	220851.36	756671.09	4.60
10591	220854.47	756673.82	4.50
10592	220844.27	756685.44	4.35
10593	220852.26	756684.92	4.15
10594	220909.11	756680.83	3.96
10595	220905.60	756626.94	4.02
10596	220924.80	756613.98	4.18
10597	220921.29	756560.09	4.29
10598	220883.37	756285.33	3.66
10599	220903.33	756284.03	3.86

COORDINATE LISTS SHEET GG08-BB (CONT.)

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
10600	220934.86	756266.42	3.80
10601	220946.43	756250.11	3.60
10602	220979.63	756298.19	3.89
10603	220991.20	756281.88	3.69
10604	220996.39	756328.22	4.97
10605	221016.35	756326.92	3.78
10606	221357.81	756390.24	3.84
10607	221363.85	756479.89	3.84

COORDINATE LISTS SHEET GG12-BB (CONT.)

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
20081	222790.43	756765.38	MEET EXIST.
20082	222781.66	756760.58	MEET EXIST.
20083	222741.24	756762.50	MEET EXIST.
20084	222725.33	756778.47	7.17
20085	222718.16	756798.57	7.77
20086	222728.82	756752.86	MEET EXIST.
20087	222711.68	756770.07	7.29
20088	222694.64	756763.99	7.38
20089	222694.49	756762.40	7.82
20090	222698.97	756756.93	7.66
20091	222713.90	756755.46	7.35
20092	222709.96	756715.65	7.00
20093	222686.08	756718.01	7.58
20094	222684.11	756698.11	7.38
20095	222393.53	756726.86	7.82
20096	222392.93	756720.89	7.88
20097	222390.68	756698.08	7.97
20098	222390.09	756692.11	7.91
20099	222382.13	756692.90	7.94
20100	222382.72	756698.87	8.00
20101	222382.72	756698.87	7.89
20102	222385.56	756727.65	7.83
20103	222345.31	756696.54	8.05
20104	222316.75	756702.21	8.08
20105	222268.75	756716.69	8.25
20106	222240.19	756722.36	8.37
20107	222191.11	756727.21	8.52
20108	222146.48	756727.90	8.60
20109	222117.23	756753.76	8.88
20110	222116.99	756765.59	* 8.95
20111	222117.53	756770.95	8.95
20112	222120.81	756773.64	8.77
20113	222123.79	756773.35	* 8.60
20114	222126.48	756770.07	8.40
20115	222124.84	756753.45	8.22
20116	222102.07	756767.06	* 9.60
20117	222146.09	756716.91	8.82
20118	222190.45	756716.22	8.74
20119	222231.07	756711.45	9.11
20120	222239.10	756711.41	8.59
20121	222265.57	756706.16	8.47
20122	222300.71	756694.77	8.40
20123	222308.97	756693.06	8.38
20124	222308.20	756689.16	8.38
20125	222300.31	756690.69	8.40
20126	222229.70	756697.68	9.11
20127	222175.73	756702.27	8.77
20128	222170.09	756703.01	8.78
20129	222170.74	756709.62	9.29
20130	222111.94	756725.72	9.13
20131	222164.18	756704.18	8.80
20132	222158.39	756705.75	8.81

COORDINATE LISTS SHEET GG12-BB (CONT.)

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
20133	222144.70	756711.23	8.84
20134	222145.54	756698.73	9.05
20135	222144.30	756697.27	9.05
20136	222136.16	756687.72	9.14
20137	222134.71	756683.31	9.17
20138	222147.87	756691.68	9.08
20139	222155.27	756688.01	9.07
20140	222158.48	756688.20	9.05
20141	222159.13	756694.10	9.02
20142	222171.75	756687.59	9.00
20143	222172.14	756691.57	9.00
20144	222166.43	756666.01	8.76
20145	222159.60	756666.21	8.84
20146	222111.75	756621.17	9.29
20147	222111.15	756615.15	9.31
20148	222120.12	756604.22	9.21
20159	222351.51	756563.23	8.44
20160	222356.42	756551.91	8.45
20161	222358.07	756548.26	8.45
20162	222366.03	756547.26	8.43
20163	222368.36	756550.73	8.41
20164	222375.40	756560.87	8.36
20165	222377.16	756578.79	8.36
20166	222372.24	756589.97	8.36
20167	222370.59	756593.62	8.35
20168	222376.51	756610.92	8.27
20169	222383.80	756628.56	8.20
20170	222385.66	756647.33	8.12
20171	222378.29	756654.09	8.12
20172	222389.52	756666.04	8.35
20173	222389.91	756670.02	8.35
20174	222377.97	756671.20	8.38
20175	222377.58	756667.22	8.38
20176	222376.30	756654.28	8.12
20177	222377.69	756648.12	8.12
20178	222374.41	756645.43	8.15
20179	222325.65	756650.25	8.05
20180	222373.82	756639.46	8.15
20181	222376.51	756636.17	8.18
20182	222375.84	756629.35	8.21
20183	222370.31	756615.98	8.29
20184	222362.63	756594.40	8.36
20185	222360.30	756591.15	8.38
20186	222353.28	756581.15	8.44
20197	222584.06	756558.31	7.68
20198	222582.29	756540.40	7.68
20199	222622.61	756511.29	7.43
20200	222604.70	756513.06	7.61
20201	222650.43	756617.03	MEET EXIST
20202	222597.15	756632.43	5.38
20203	222590.54	756633.09	5.42
20204	222386.25	756653.30	8.11
20205	222520.68	756679.19	6.40
20206	222620.53	756663.55	5.35
20207	222620.60	756662.80	5.35
20208	222641.52	756662.65	5.54
20209	222642.17	756652.07	5.63
20210	222641.54	756636.23	5.96
20211	222638.29	756622.04	6.42
20212	222165.84	756660.03	8.67
20213	222159.83	756660.22	8.72
20214	222128.30	756585.32	9.17
20215	222106.43	756567.39	9.33
20216	222164.77	756710.21	9.31
20217	222073.17	756830.23	10.00
20218	222088.84	756828.68	10.00
20219	222103.84	756894.20	10.63
20220	222082.08	756572.70	9.57
20221	222084.13	756593.43	9.57

* TOP OF CURB

COORDINATE LISTS SHEET GG014-BB (CONT.)

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
RV27	222147.66	756473.87	9.13
RV28	222189.95	756469.69	9.03
RV29	222232.24	756465.50	8.94
RV30	222274.54	756461.32	8.85
RV31	222316.83	756457.14	8.75
RV32	222403.25	756448.58	8.56
RV33	222445.54	756444.40	8.47
RV34	222487.84	756440.21	8.37
RV35	222530.13	756436.03	8.28
RV36	222570.65	756413.93	7.83
RV37	222528.36	756418.12	8.28
RV38	222486.07	756422.30	8.37
RV39	222443.77	756426.49	8.47
RV40	222401.48	756430.67	8.56
RV41	222319.65	756438.77	8.74
RV42	222272.76	756443.41	8.85
RV43	222230.47	756447.59	8.94
RV44	222188.18	756451.78	9.03
RV45	222145.88	756455.96	9.13
RV46	222135.15	756347.49	9.28
RV47	222177.44	756343.31	9.35
RV48	222219.74	756339.12	9.41
RV49	222262.03	756334.94	9.47
RV50	222304.33	756330.75	9.53
RV51	222390.75	756322.20	9.34
RV52	222433.04	756318.02	9.13

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
RV53	222475.33	756313.83	8.92
RV54	222517.63	756309.65	8.63
RV55	222557.56	756281.58	7.82
RV56	222515.26	756285.76	8.63
RV57	222468.37	756290.40	8.94
RV58	222264.26	756310.60	9.48
RV59	222217.38	756315.24	9.41
RV60	222175.08	756319.42	9.35
RV61	222132.79	756323.61	9.28
RV62	222163.36	756201.00	8.46
RV63	222205.66	756196.82	8.46
RV64	222247.95	756192.63	8.46
RV65	222290.24	756188.45	8.46
RV66	222376.67	756179.90	8.46
RV67	222418.96	756175.71	8.46
RV68	222461.25	756171.53	8.46
RV69	222508.14	756166.89	8.46
RV70	222544.07	756145.25	7.96
RV71	222501.77	756149.43	8.46
RV72	222459.48	756153.61	8.46
RV73	222417.19	756157.80	8.46
RV74	222374.89	756161.98	8.46
RV75	222288.47	756170.54	8.46
RV76	222246.18	756174.72	8.46
RV77	222203.89	756178.90	8.46

COORDINATE LISTS SHEET GG16-BB (CONT.)

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
20555	222609.26	755828.40	6.62
20556	222617.22	755827.66	6.54
20557	222510.57	755948.13	7.88
20558	222511.36	755956.10	7.80
20559	222310.08	755982.04	8.78
20560	222315.46	755975.48	8.66
20561	222302.12	755982.83	8.78
20562	222295.56	755977.45	8.66
20563	222285.99	755970.36	8.66
20564	222286.78	755978.32	8.58
20565	222198.29	755991.24	7.48
20566	222196.95	755993.93	7.60
20567	222206.38	755995.10	7.74
20568	222211.09	756001.64	7.90
20569	222191.03	755993.86	7.59
20570	222181.24	755988.15	6.86
20571	222184.01	755992.32	7.00
20572	222148.85	756014.29	5.00
20573	222145.28	756015.70	4.79
20574	222143.09	756015.16	4.70
20575	222141.58	756014.39	MEET EXIST.
20576	222139.31	756018.84	MEET EXIST.
20577	222140.82	756019.62	4.63
20578	222145.20	756020.70	4.82
20579	222152.33	756017.88	5.17
20580	222192.69	755996.55	7.59
20581	222166.54	756054.08	8.07
20582	222201.88	756052.21	7.87
20583	222173.12	756059.84	8.19
20584	222206.08	756054.76	7.87
20585	222207.98	756012.37	8.03
20586	222200.16	756015.35	8.03
20587	222200.52	756020.77	8.04
20588	222198.44	756025.18	8.05
20589	222200.68	756034.37	7.90
20590	222228.63	756048.84	7.72
20591	222236.76	756066.12	7.72
20592	222216.73	756051.01	7.72
20593	222204.05	756082.96	7.80
20594	222306.50	756027.10	8.01

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
20595	222304.85	756030.75	7.92
20596	222299.91	756041.78	7.72
20599	222301.69	756059.70	7.72
20600	222308.69	756069.56	7.92
20601	222311.02	756072.81	7.99
20610	222538.65	756018.16	7.72
20611	222510.57	756039.03	7.68
20613	222576.93	756049.54	7.90
20614	222318.98	756072.02	7.62
20650	222320.63	756068.38	7.99
50000	222325.57	756057.33	7.92
50001	222323.80	756039.42	7.72
50002	222316.79	756029.57	7.72
50003	222314.46	756026.32	7.92
50004	222595.50	755878.83	8.00
50005	222591.33	755876.08	6.66
50006	222604.14	755833.33	6.62
50007	222601.05	755826.13	6.59
50008	222592.59	755819.15	6.59
50009	222605.11	755821.14	6.56
50010	222585.91	755817.52	6.62
50011	222596.62	755814.22	6.66
50012	222580.91	755817.82	6.56
50013	222585.48	755813.16	6.50
50014	222580.50	755813.62	6.55
50015	222568.97	755833.19	6.50
50016	222566.63	755843.08	6.43
50017	222563.61	755847.07	6.44
50018	222556.56	755851.51	6.41
50019	222541.97	755869.33	6.32
50020	222539.28	755871.91	6.23
50021	222537.02	755872.12	6.22
50022	222539.65	755876.90	6.21
50023	222537.49	755877.11	6.22
50024	222542.81	755878.97	6.21
50025	222544.90	755883.61	6.23
50026	222540.90	755888.42	6.23
50027	222555.38	755892.63	6.19
50028	222551.52	755897.26	6.32
50029	222559.49	755893.87	6.28

GG17-BB

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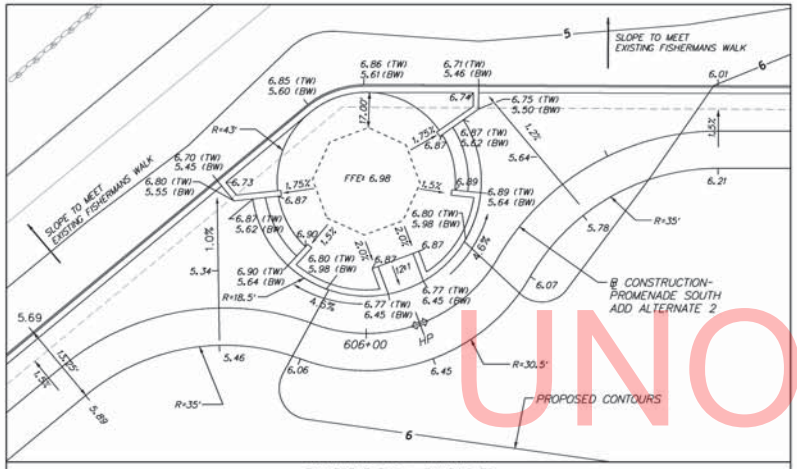
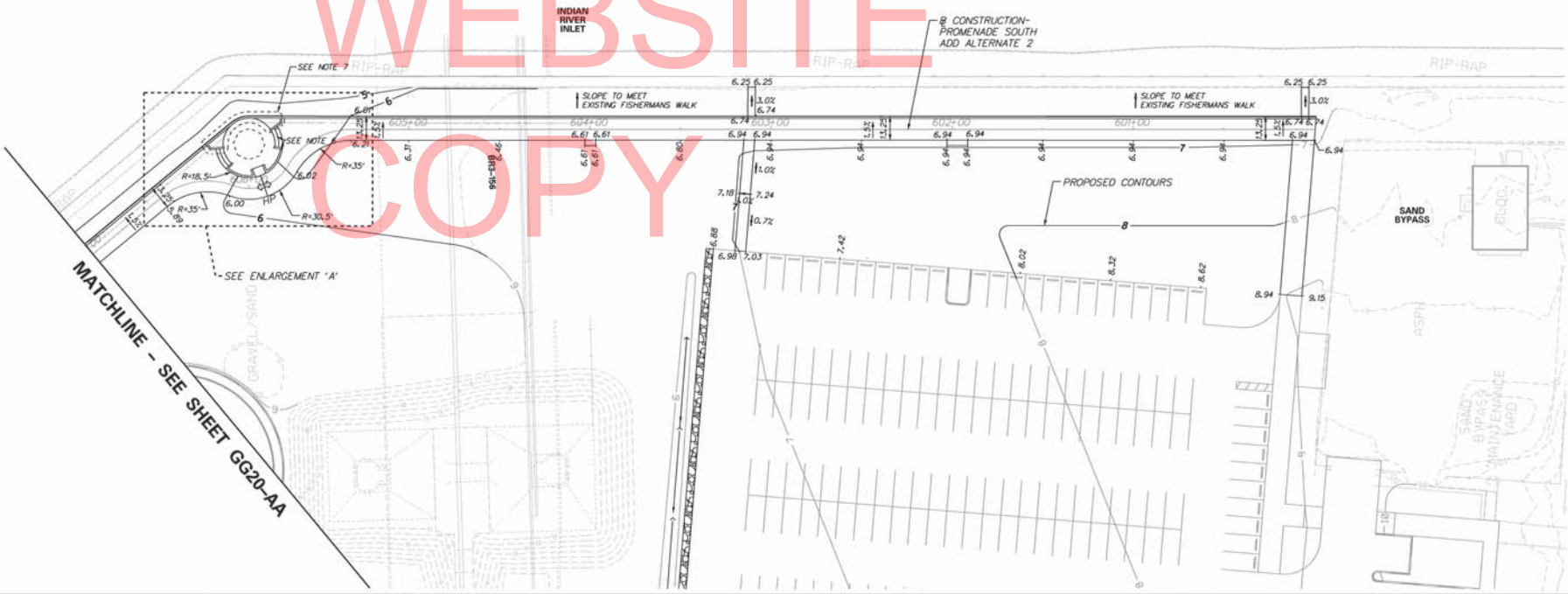


ENLARGEMENT 'A' - BUILDING 7C
SCALE: 1" = 10'

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 ARE SHOWN AT 1' INTERVALS.
4. PROPOSED CURB OR PAVEMENTS THAT TIE 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 CONTRACTS 26-073-01 AND 29-073-01.
6. SEE LANDSCAPE PLAN FOR STEP AND SEATWALL DETAILS.
7. SEE CONSTRUCTION DETAIL (ADD ALTERNATE) FOR EXTENDED HAUNCH DETAIL.



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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 (ADD ALTERNATE 2)	GG18-AA
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 61
					CHECKED BY: RK&K		TOTAL SHTS. 282

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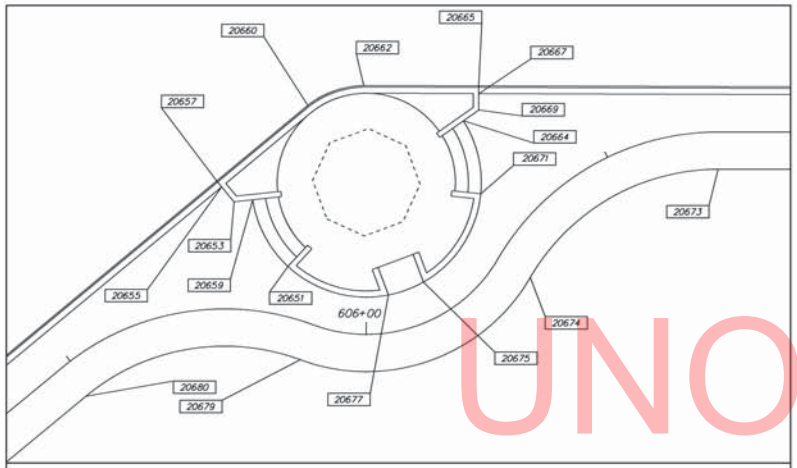


ENLARGEMENT 'A' - BUILDING 7C
SCALE: 1" = 10'

COORDINATE LIST

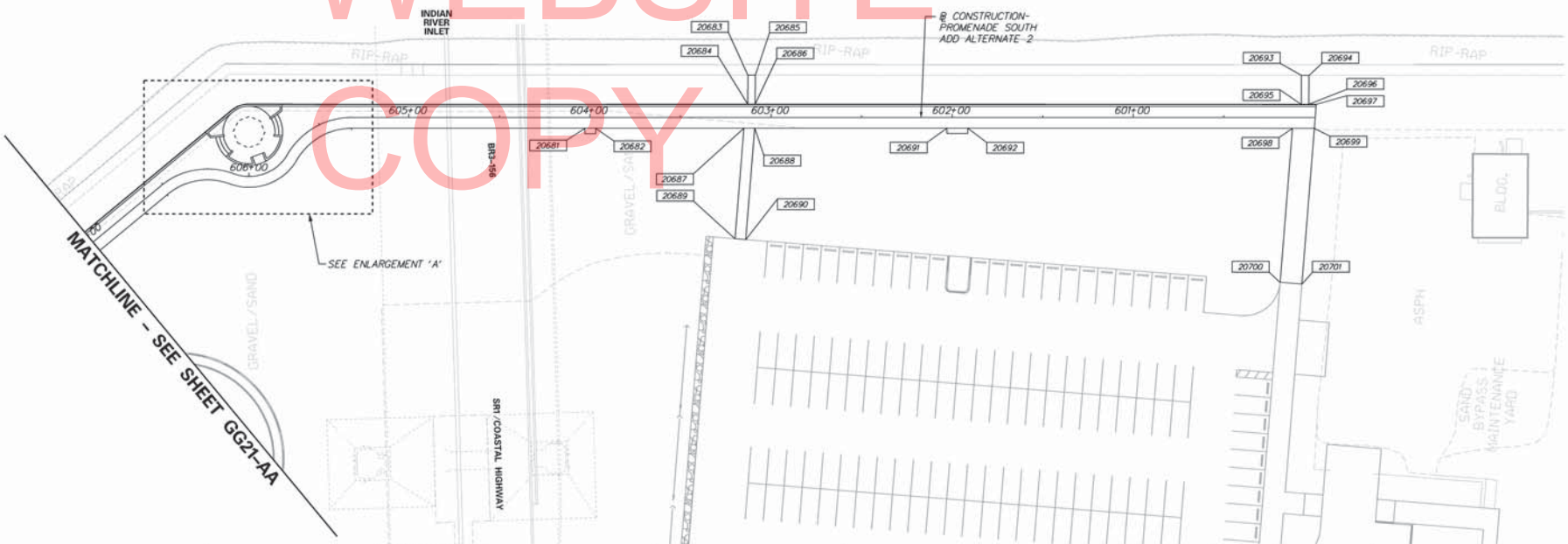
POINT NO.	NORTHING	EASTING	ELEVATION
20651	221329.31	756953.85	5.64
20653	221338.76	756944.20	5.55
20655	221340.98	756941.94	5.48
20657	221341.85	756941.05	5.45
20659	221339.38	756947.13	5.62
20660	221355.46	756954.41	5.60
20662	221359.51	756963.05	5.61
20664	221355.49	756979.56	5.62
20665	221361.33	756981.45	5.46
20667	221360.08	756981.57	5.49
20669	221357.46	756981.83	5.50
20671	221344.06	756983.54	5.64
20673	221351.87	757021.15	6.21
20674	221331.47	756992.83	6.07
20675	221328.99	756975.80	6.45
20677	221326.34	756970.42	6.45
20679	221314.52	756957.37	6.06
20680	221305.16	756923.60	5.89
20681	221365.02	757149.31	6.61
20682	221365.64	757155.28	6.61

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
20683	221403.31	757235.83	MEET EXIST.
20684	221387.39	757237.42	6.74
20685	221403.72	757239.93	MEET EXIST.
20686	221387.81	757241.52	6.74
20687	221373.98	757236.61	6.94
20688	221374.60	757242.60	6.94
20689	221312.70	757237.94	6.98
20690	221312.83	757243.94	7.03
20691	221385.35	757348.15	6.94
20692	221386.51	757359.59	6.94
20693	221434.20	757539.95	MEET EXIST.
20694	221434.62	757544.05	MEET EXIST.
20695	221418.28	757541.56	6.74
20696	221418.70	757545.66	6.74
20697	221419.11	757549.70	6.74
20698	221404.60	757538.02	6.94
20699	221405.82	757549.99	6.94
20700	221319.27	757539.87	8.94
20701	221319.53	757551.87	9.15

NOTE:

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

GRADES AND GEOMETRICS STAKEOUT PLAN (ADD ALTERNATE 2)

GG19-AA	
SHEET NO.	62
TOTAL SHTS.	282

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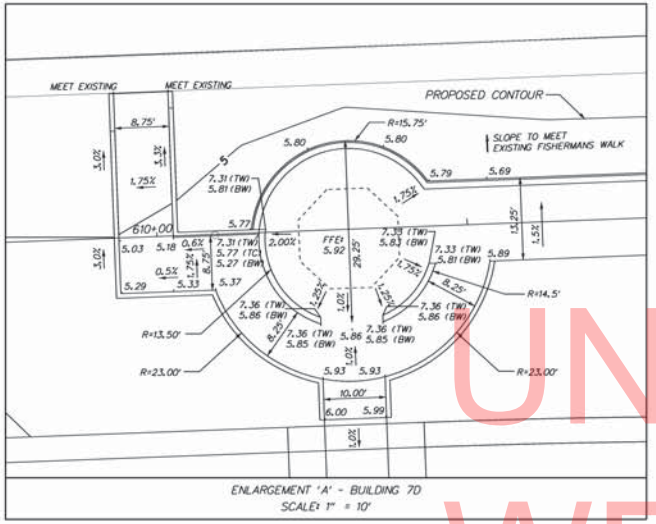
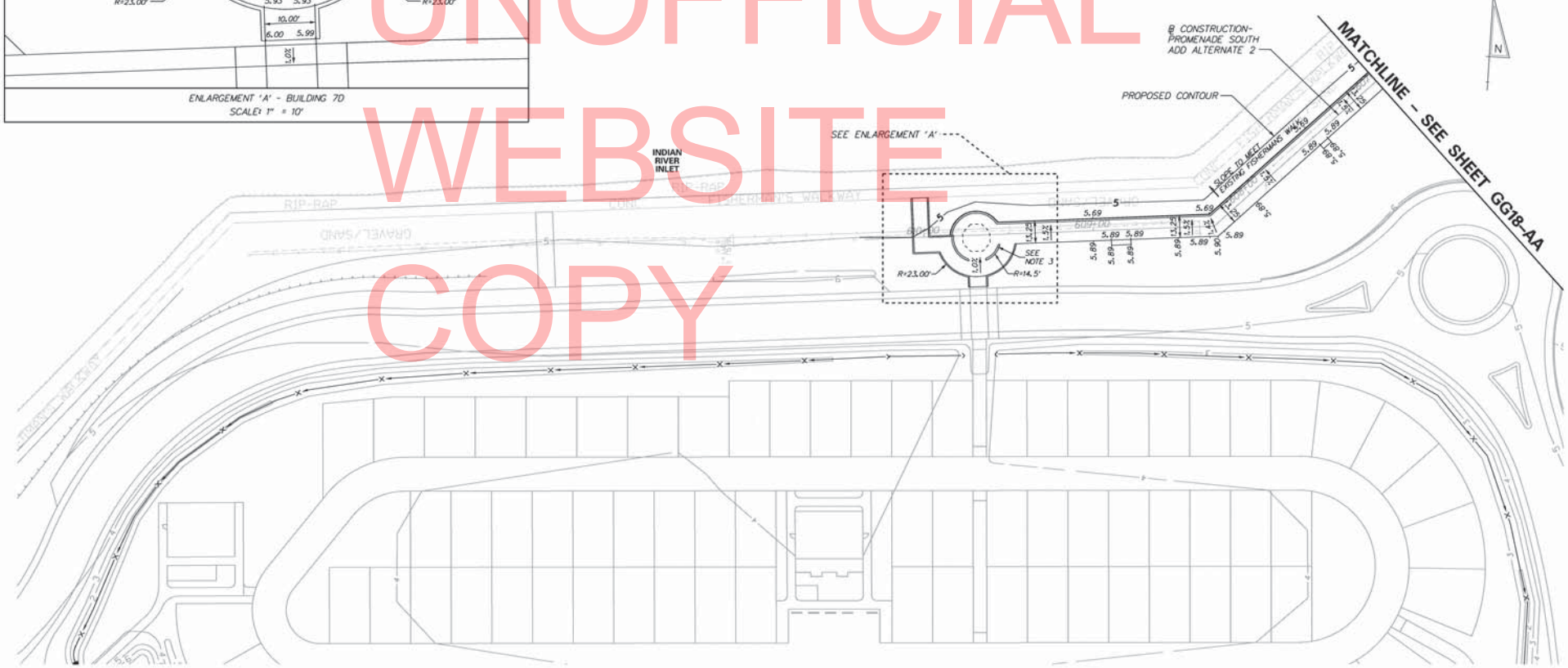


ENLARGEMENT 'A' - BUILDING 7D
SCALE: 1" = 10'

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 ARE SHOWN AT 1' INTERVALS.
4. PROPOSED CURB OR PAVEMENTS THAT TIE 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 CONTRACTS 26-073-01 AND 29-073-01.
6. SEE LANDSCAPE PLAN FOR STEP AND SEATWALL DETAILS.



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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 (ADD ALTERNATE 2)	GG20-AA
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 63
					CHECKED BY: RK&K		TOTAL SHTS. 282

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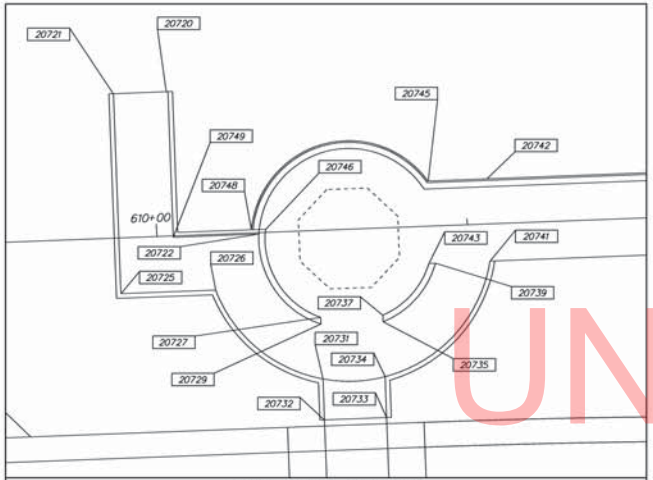
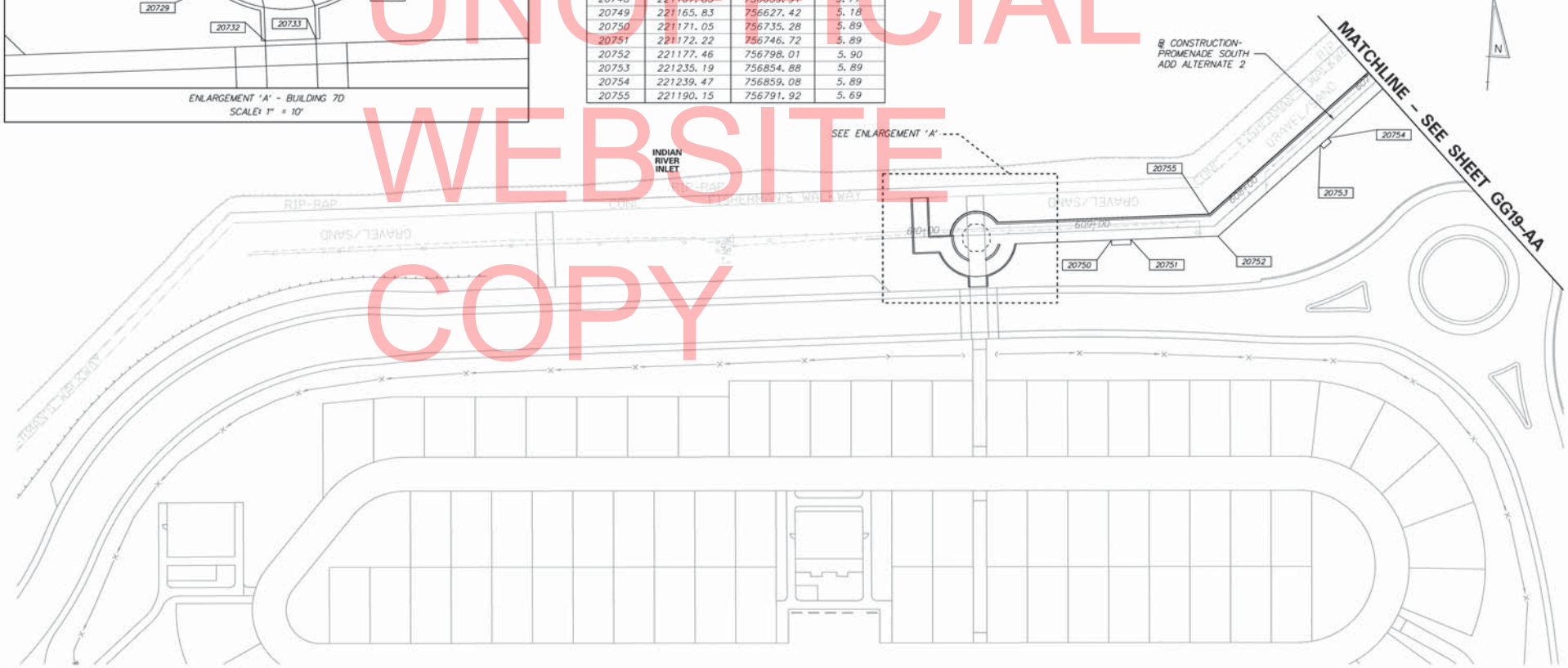


ENLARGEMENT 'A' - BUILDING 7D
SCALE: 1" = 10'

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
20720	221189.17	756624.81	MEET EXIST.
20721	221188.30	756616.35	MEET EXIST.
20722	221167.22	756641.15	5.27
20725	221156.25	756619.60	5.29
20726	221157.78	756634.77	5.37
20727	221154.45	756651.94	5.86
20729	221153.39	756652.05	5.85
20731	221144.60	756652.94	5.93
20732	221138.03	756653.60	6.00
20733	221139.04	756663.55	5.99
20734	221145.60	756662.89	5.93
20735	221154.40	756662.00	5.85
20737	221155.46	756661.89	5.86
20739	221164.36	756669.82	5.81
20741	221165.25	756679.31	5.89
20742	221178.43	756677.20	5.69
20743	221164.25	756668.77	5.83
20745	221177.47	756667.79	5.79
20746	221168.08	756642.17	5.81
20748	221167.85	756639.91	5.77
20749	221165.83	756627.42	5.18
20750	221171.05	756735.28	5.89
20751	221172.22	756746.72	5.89
20752	221177.46	756798.01	5.90
20753	221235.19	756854.88	5.89
20754	221239.47	756859.08	5.89
20755	221190.15	756791.92	5.69

NOTE:

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



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 STAKEOUT PLAN (ADD ALTERNATE 2)	GG21-AA
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 64
					CHECKED BY: RK&K		TOTAL SHTS. 282

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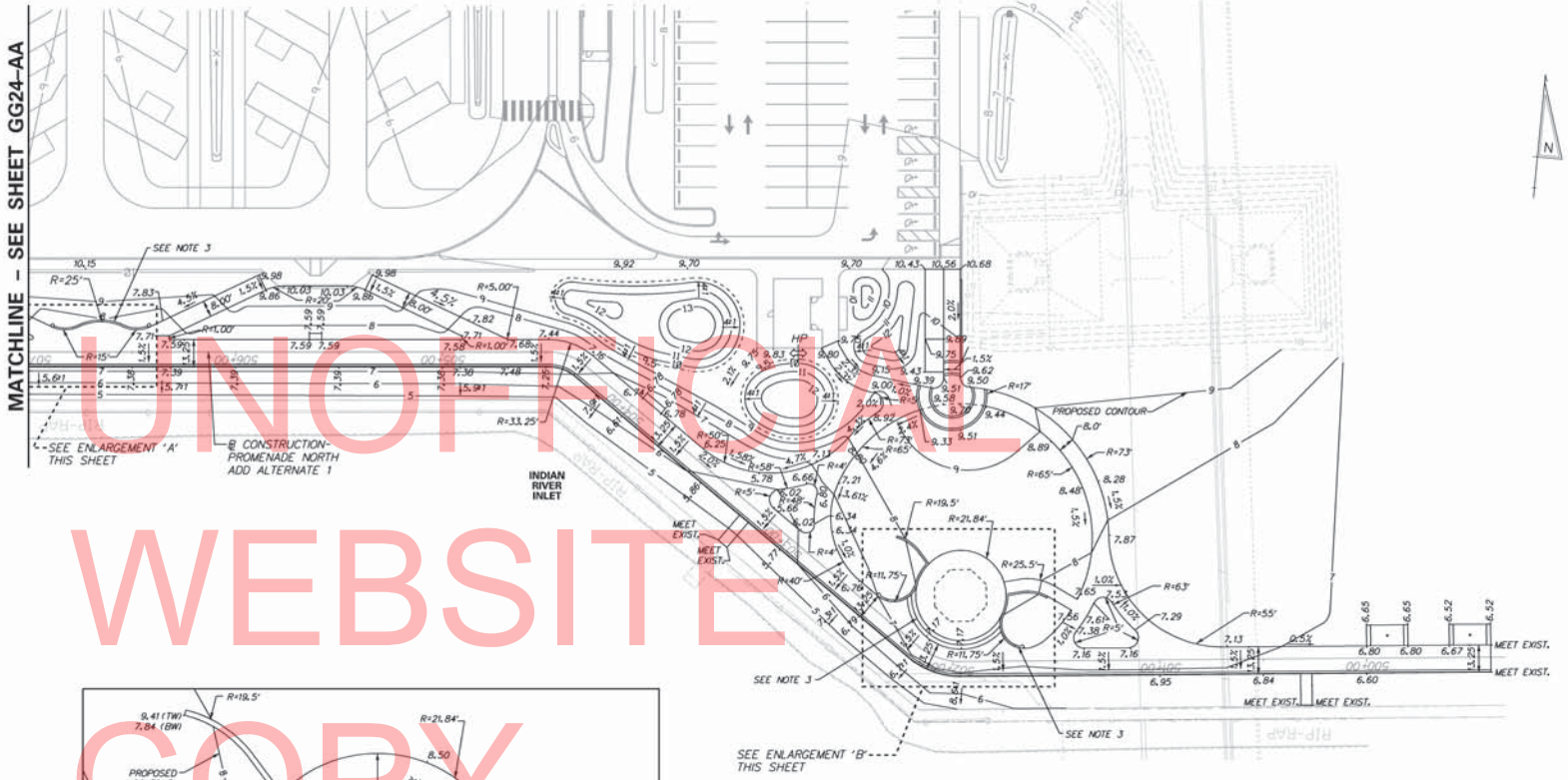
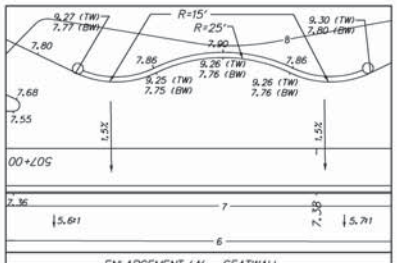


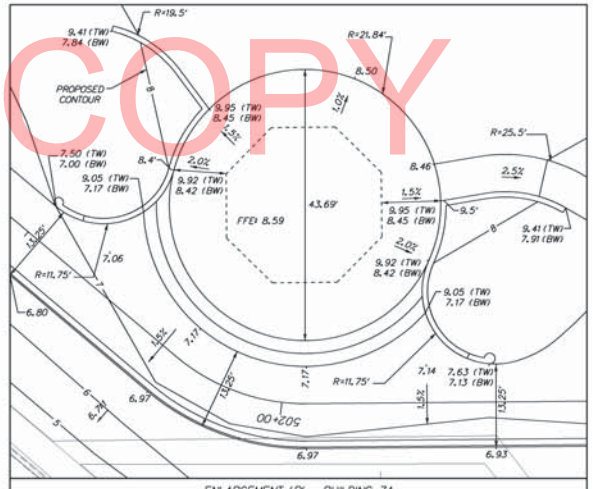
UNOFFICIAL WEBSITE COPY

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 ARE SHOWN AT 1' INTERVALS.
4. PROPOSED CURB OR PAVEMENTS THAT TIE 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 CONTRACTS 26-073-01 AND 29-073-01.
6. SEE LANDSCAPE PLAN FOR STEP AND SEATWALL DETAILS.



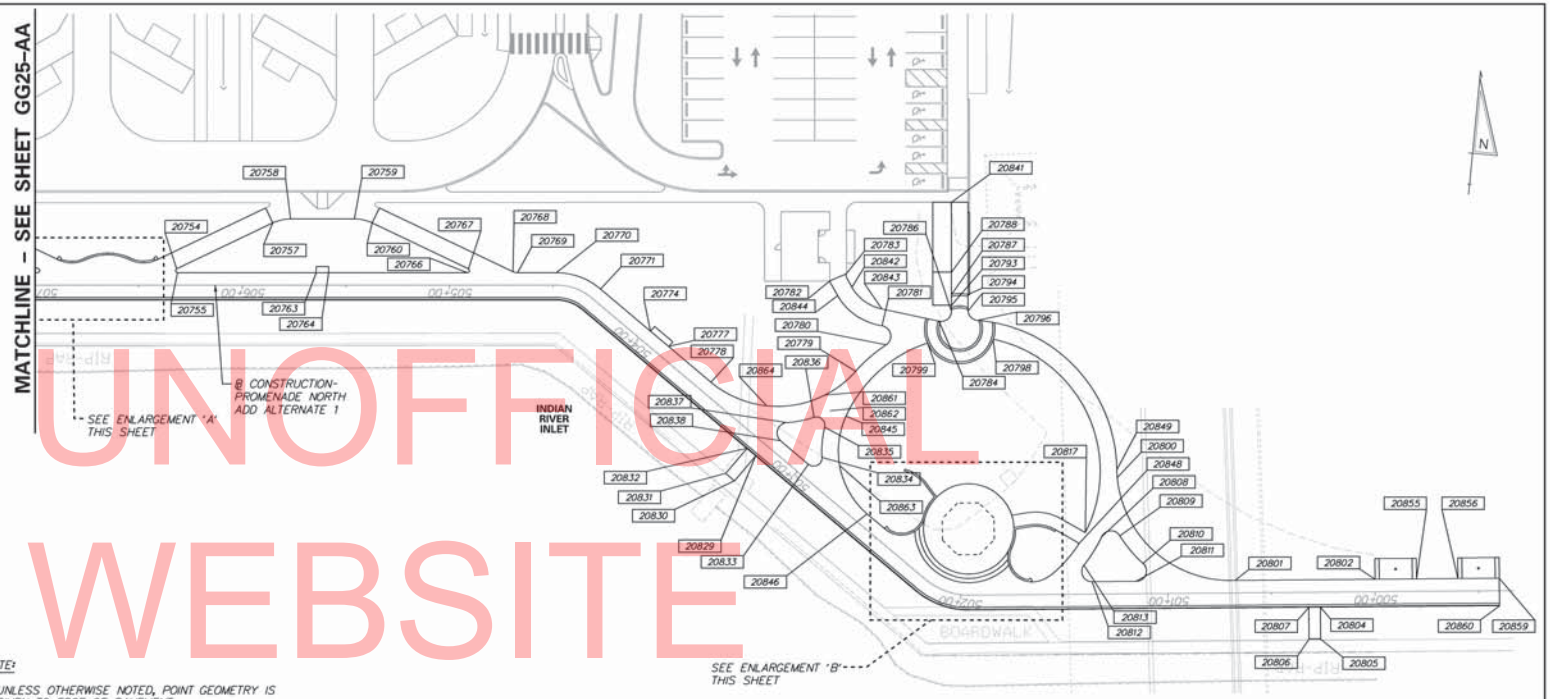
ENLARGEMENT 'A' - SEATWALL
SCALE: 1" = 10'



ENLARGEMENT 'B' - BUILDING 7A
SCALE: 1" = 10'

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 GRADING PLAN (ADD ALTERNATE 1)	GG22-AA	SHEET NO. 65	TOTAL SHTS. 282		

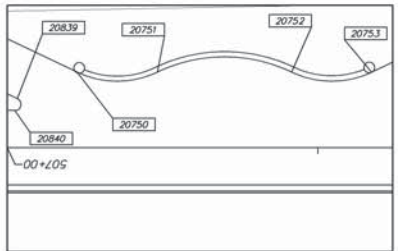
COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
20750	222038.10	756459.41	7.76
20751	222039.38	756472.28	7.75
20752	222041.48	756493.75	7.76
20753	222042.74	756506.61	7.80
20754	222039.42	756516.59	7.71
20755	222037.56	756517.21	7.59
20757	222065.96	756560.60	9.86
20758	222068.73	756568.96	10.03
20759	222071.77	756599.63	10.03
20760	222070.67	756608.40	9.86
20763	222044.12	756583.90	7.59
20764	222044.70	756589.87	7.59
20766	222051.25	756656.54	7.58
20767	222053.19	756656.78	7.71
20768	222053.89	756678.39	7.68
20769	222053.61	756680.58	7.68
20770	222055.43	756699.12	7.44
20771	222049.73	756721.22	7.16
20774	222031.84	756747.27	6.78
20777	222025.29	756756.73	6.78
20778	222010.16	756778.70	6.25
20779	222022.14	756847.63	7.94
20780	222036.38	756861.13	8.80
20781	222045.27	756858.27	9.00
20782	222064.27	756830.86	9.80
20783	222068.52	756838.48	9.75
20784	222050.19	756885.39	9.39
20786	222055.65	756890.93	9.51
20787	222063.65	756890.14	9.67
20788	222074.32	756889.08	9.89
20793	222058.45	756890.65	9.57
20794	222064.43	756898.10	9.78
20795	222056.54	756898.88	9.51
20796	222052.41	756903.91	9.50
20798	222044.03	756912.37	9.44
20799	222039.12	756881.01	9.33
20800	221983.44	756978.47	7.81
20801	221939.44	757039.77	7.13
20802	221946.63	757107.16	6.80
20804	221930.64	757082.19	6.72
20805	221915.48	757083.79	MEET EXIST.
20806	221914.89	757078.28	MEET EXIST.
20807	221930.05	757076.67	6.75
20808	221954.28	756973.82	7.61
20809	221955.61	756982.48	7.53
20810	221943.37	756994.92	7.29
20811	221934.38	756992.47	7.16
20812	221932.13	756971.34	7.16
20813	221939.81	756966.61	7.38
20814	221955.32	756951.31	7.91
20815	221954.47	756931.16	8.45
20816	221960.79	756953.78	7.93
20817	221955.38	756965.75	7.65
20818	221962.16	756936.59	8.31
20819	221960.26	756929.59	8.46
20820	221965.57	756892.65	8.45
20821	221976.51	756875.82	7.84
20823	221947.51	756869.70	7.00
20824	221948.05	756883.75	7.17
20825	221936.32	756930.48	7.17
20826	221929.13	756941.52	7.13
20829	221976.85	756803.72	5.37
20830	221963.82	756794.68	MEET EXIST.
20831	221966.97	756790.11	MEET EXIST.
20832	221980.00	756799.15	5.37
20833	221975.25	756829.41	6.02
20834	221979.19	756835.63	6.34
20835	221993.81	756835.50	6.80
20836	221998.06	756829.96	6.66



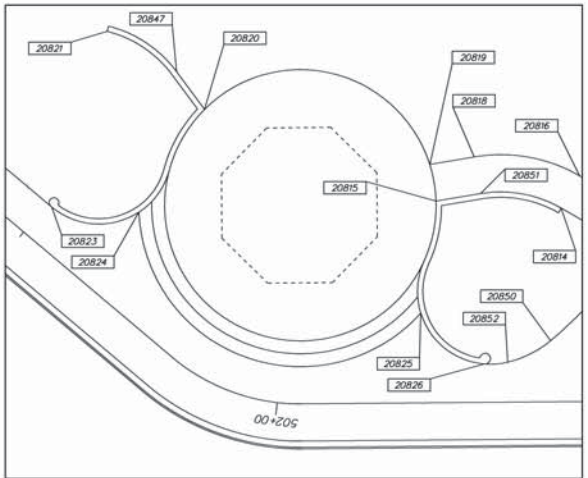
NOTE:

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

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
20837	221994.20	756816.99	6.02
20838	221985.16	756815.01	5.66
20839	222032.90	756450.27	7.68
20840	222030.96	756450.03	7.55
20841	222108.03	756885.75	10.56
20842	222062.40	756842.05	9.57
20843	222053.36	756857.44	9.15
20844	222057.74	756835.55	9.62
20845	222000.09	756845.23	7.21
20846	221954.18	756860.01	6.76
20847	221971.16	756887.58	8.10
20848	221949.94	756963.22	7.56
20849	221987.15	756977.89	7.87
20850	221933.94	756951.73	7.26
20851	221956.37	756938.17	8.27
20852	221929.79	756945.19	7.14
20855	221948.75	757127.04	6.80
20856	221950.88	757146.93	6.67
20859	221953.00	757166.82	MEET EXIST.
20860	221939.83	757168.22	MEET EXIST.
20861	222009.23	756833.89	7.13
20862	222001.92	756837.41	7.05
20863	221976.23	756844.45	6.34
20864	222001.35	756806.73	5.78



ENLARGEMENT 'A' - SEATWALL
SCALE: 1" = 10'



ENLARGEMENT 'B' - BUILDING 7A
SCALE: 1" = 10'

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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 (ADD ALTERNATE 1)

GG23-AA
SHEET NO. 66
TOTAL SHTS. 282

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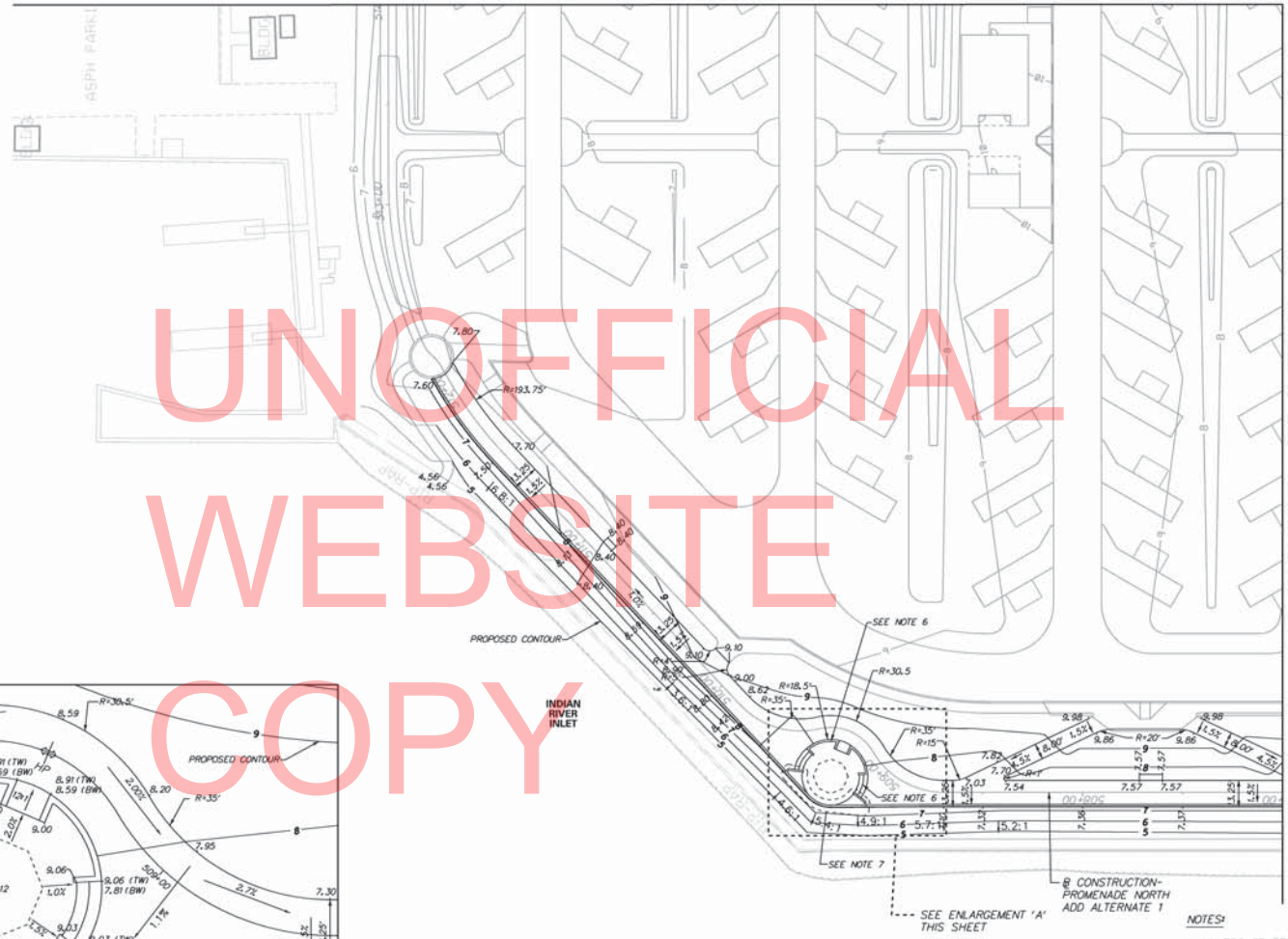
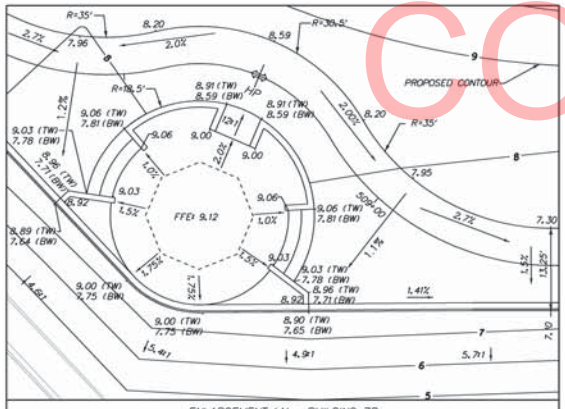
MATCHLINE – SEE SHEET GG27-AA



MATCHLINE – SEE SHEET GG22-AA



ENLARGEMENT 'A' - BUILDING 7B
SCALE: 1" = 10'

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 ARE SHOWN AT 1' INTERVALS.
4. PROPOSED CURB OR PAVEMENTS THAT TIE 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 CONTRACTS 26-073-01 AND 29-073-01.
6. SEE LANDSCAPE PLAN FOR STEP AND SEATWALL DETAILS.
7. SEE CONSTRUCTION DETAIL (ADD ALTERNATE) FOR EXTENDED HAUNCH DETAIL.

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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 (ADD ALTERNATE 1)	GG24-AA
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 67
					CHECKED BY: RK&K		TOTAL SHTS. 282

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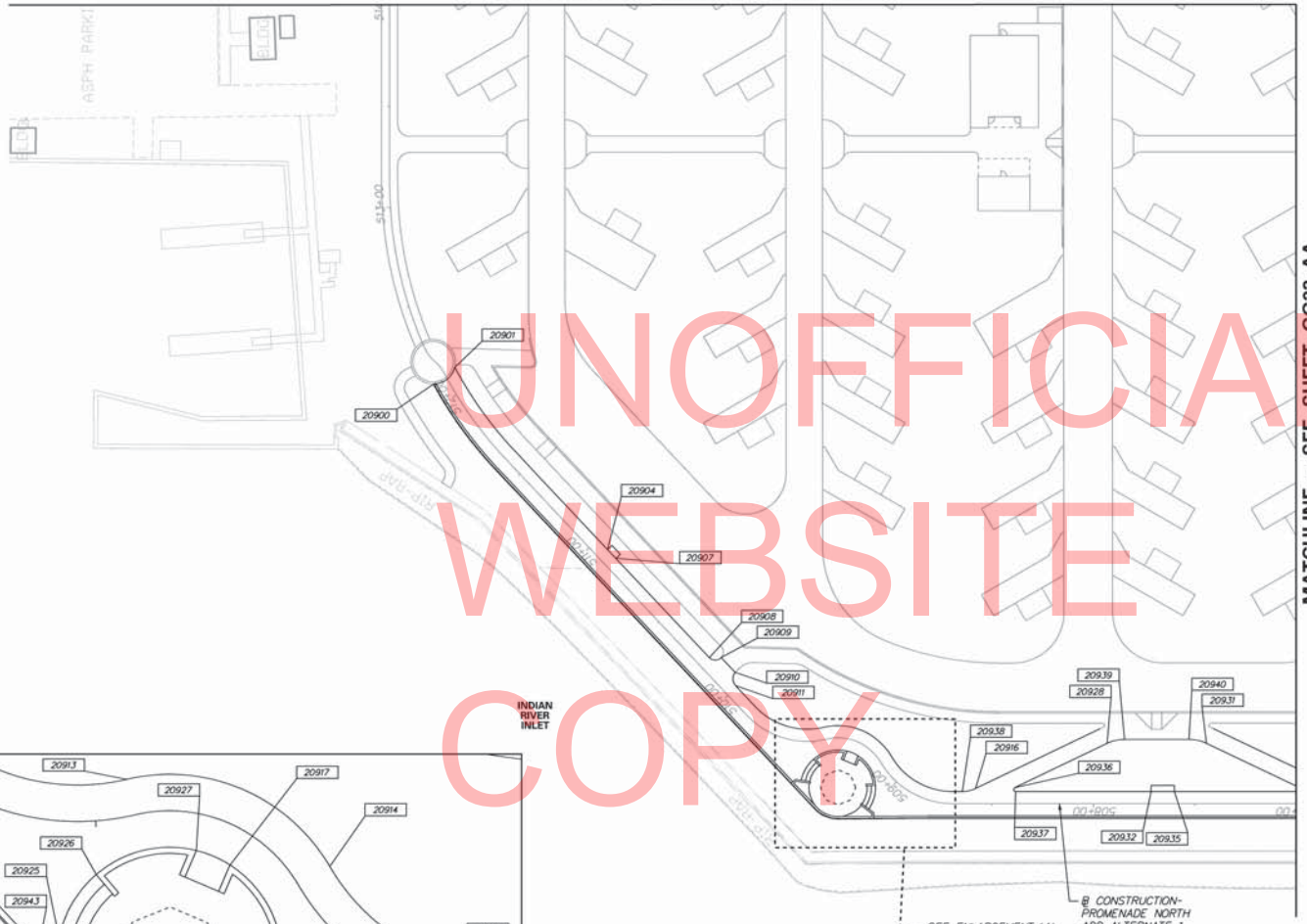
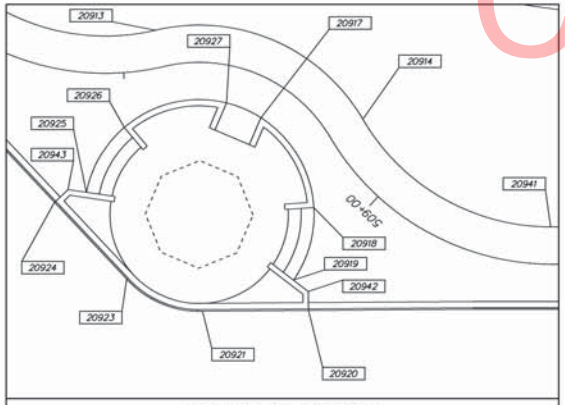
MATCHLINE – SEE SHEET GG27-AA





ENLARGEMENT 'A' - BUILDING 7B
SCALE: 1" = 10'

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
20900	222189.49	756005.50	7.60
20901	222198.76	756015.23	7.80
20904	222116.61	756099.02	8.40
20907	222112.66	756103.54	8.40
20908	222068.38	756154.19	9.10
20909	222068.98	756160.01	9.10
20910	222062.43	756167.56	9.10
20911	222055.88	756168.48	9.00
20913	222039.60	756213.76	8.20
20914	222028.62	756248.37	8.20
20916	222016.85	756291.14	7.03
20917	222027.26	756232.01	8.59
20918	222013.64	756241.93	7.81
20919	222001.73	756239.80	7.78
20920	221997.08	756242.67	7.65
20921	221995.29	756225.70	7.75
20923	221999.28	756213.08	7.75
20924	222010.46	756200.30	7.64
20925	222012.53	756205.24	7.78
20926	222023.54	756210.28	7.81
20927	222029.06	756226.29	8.59
20928	222045.36	756353.55	9.86
20931	222050.21	756402.39	9.86
20932	222023.84	756377.52	7.57
20935	222024.97	756388.97	7.57
20936	222019.15	756310.36	7.70
20937	222017.30	756310.98	7.54
20938	222014.74	756284.81	7.19
20939	222048.17	756361.95	10.03
20940	222051.30	756393.62	10.03
20941	222014.29	756280.14	7.30
20942	222000.14	756242.35	7.71
20943	222012.68	756202.24	7.71

NOTE:

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 (ADD ALTERNATE 1)

GG25-AA | SHEET NO. 68 | TOTAL SHTS. 282

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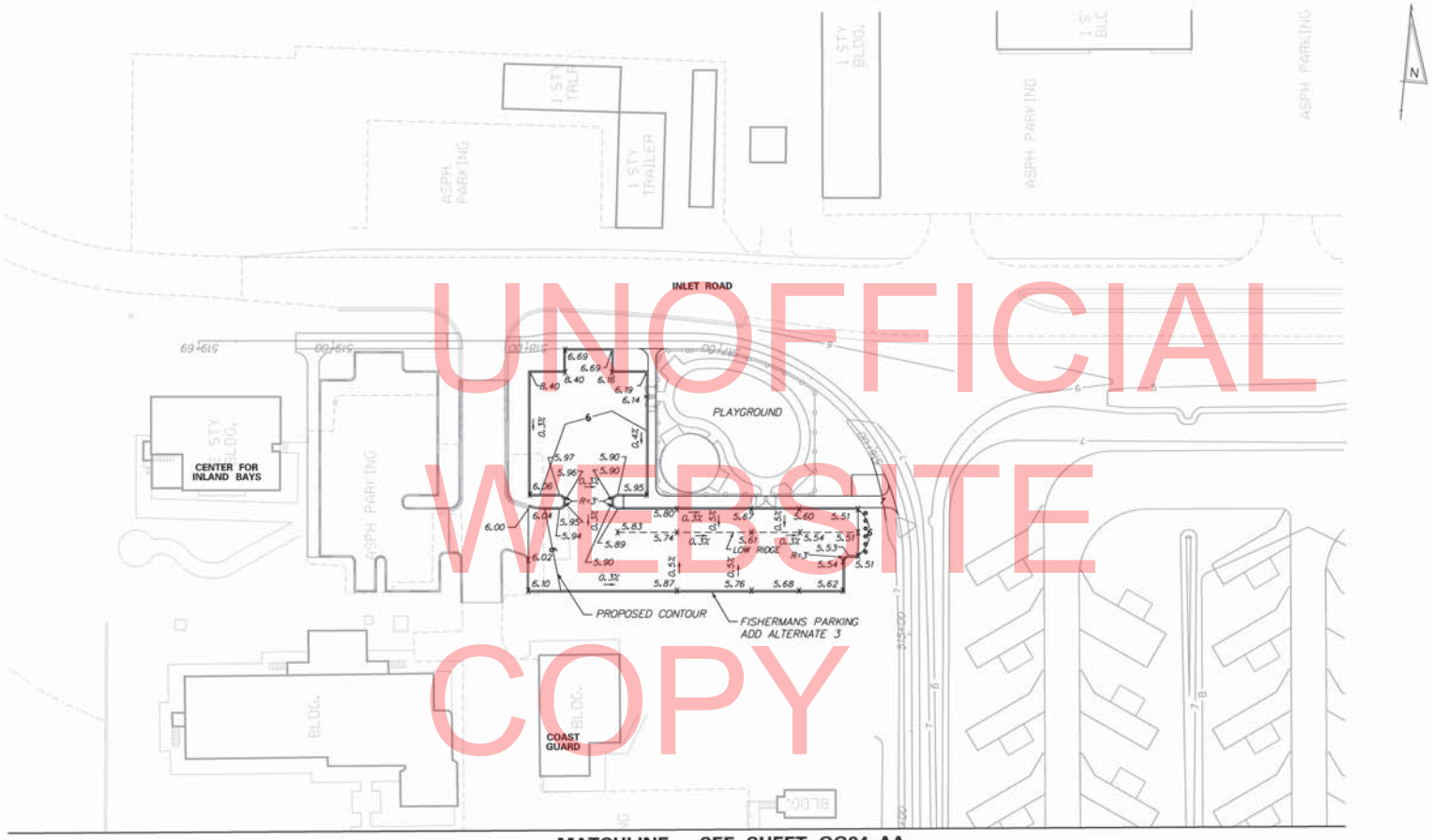

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MATCHLINE – SEE SHEET GG24-AA

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 ARE SHOWN AT 1' INTERVALS.
4. PROPOSED CURB OR PAVEMENTS THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURB SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS. POSITIVE DRAINAGE SHALL BE MAINTAINED.

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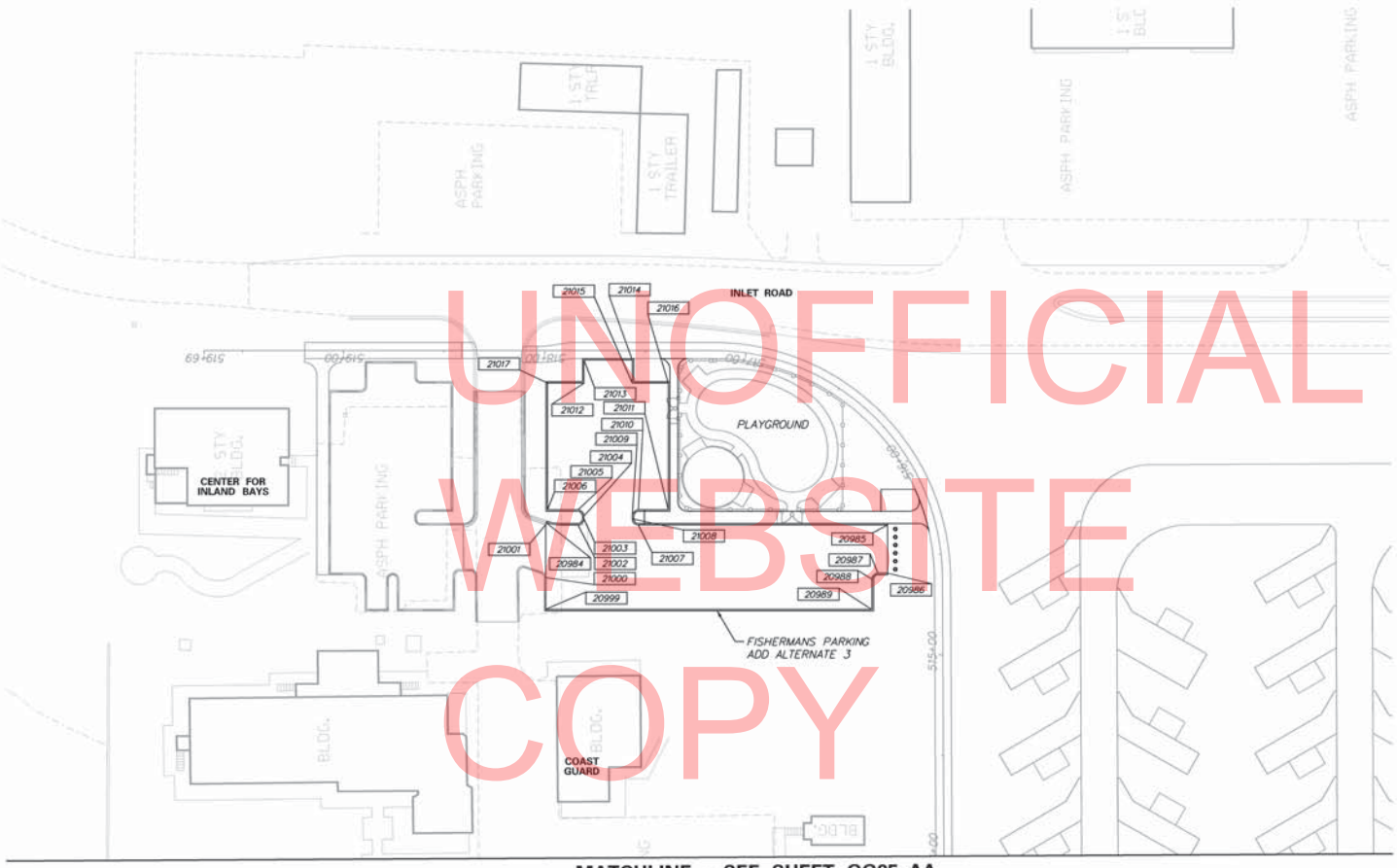
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	GRADES AND GEOMETRICS GRADING PLAN (ADD ALTERNATE 3)	GG26-AA
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 69
					CHECKED BY: RK&K		TOTAL SHTS. 282



MATCHLINE – SEE SHEET GG25-AA

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
20984	222520.33	755753.63	6.04
20985	222534.96	755922.43	5.51
20986	222510.99	755923.92	5.51
20987	222510.62	755919.94	5.53
20988	222507.35	755917.24	5.54
20989	222492.42	755918.64	5.62
20999	222477.30	755757.34	6.10
21000	222493.07	755755.86	6.02
21001	222519.36	755753.40	6.00
21002	222520.61	755769.35	5.94
21003	222523.88	755772.06	5.95
21004	222525.37	755771.92	5.96
21005	222528.08	755768.65	5.97
21006	222526.67	755753.64	6.06
21007	222523.41	755799.22	5.89
21008	222526.12	755795.96	5.90
21009	222527.61	755795.82	5.90
21010	222530.88	755798.52	5.90
21011	222532.27	755813.37	5.95
21012	222591.08	755765.76	6.16
21013	222602.53	755764.69	6.69
21014	222604.77	755788.58	6.69
21015	222593.32	755789.66	6.16
21016	222594.99	755807.49	6.19
21017	222589.39	755747.76	6.25

NOTES:

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

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

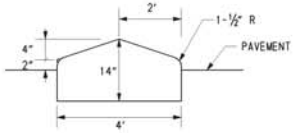
SCALE 0 30 60 90 FEET

INDIAN RIVER INLET PARK ENHANCEMENTS

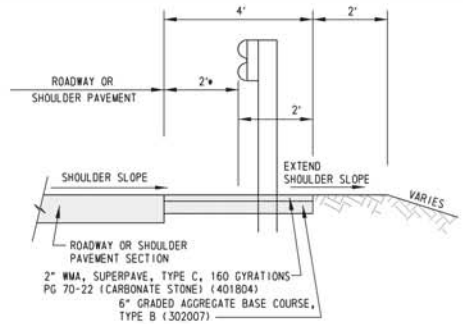
CONTRACT T200507303
COUNTY SUSSEX
BRIDGE NO. X
DESIGNED BY: RK&K
CHECKED BY: RK&K

GRADES AND GEOMETRICS STAKEOUT PLAN (ADD ALTERNATE 3)

GG27-AA
SHEET NO. 70
TOTAL SHTS. 282



P.C.C. MONOLITHIC MEDIAN
(701026)



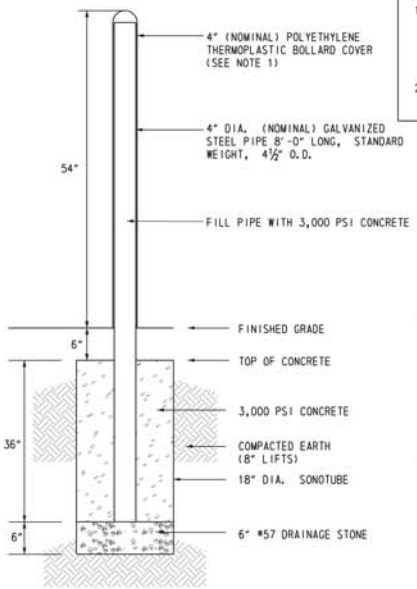
*DIMENSION TO SHOULDER SHALL BE 2' UNLESS OTHERWISE NOTED ON THE PLANS. DIMENSION TO FACE OF CURB SHALL BE 6' UNLESS OTHERWISE NOTED ON THE PLANS.

NOTE:
GUARDRAIL CONSTRUCTION LOCATIONS ARE SHOWN ON THE PLAN SHEETS. MAINTENANCE PAVEMENT SHALL BE CONSTRUCTED WITH ALL GUARDRAIL LOCATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

MAINTENANCE PAVEMENT SECTION

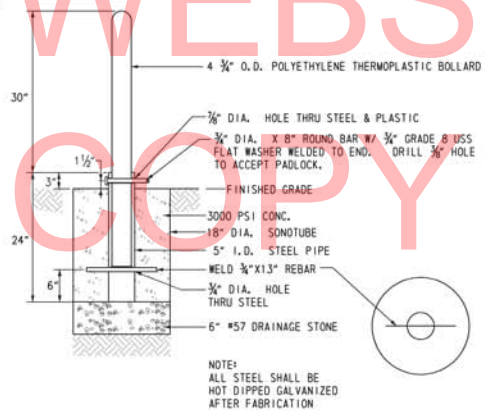
BOLLARD NOTES:

1. FIXED BOLLARD COVER SHALL BE INSTALLED BY SLIDING OVER AND ATTACHING TO STEEL PIPE UTILIZING 2-SIDED TAPE PROVIDED BY THE BOLLARD COVER MANUFACTURER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. TAPE SHALL BE WRAPPED AROUND THE CIRCUMFERENCE OF THE STEEL PIPE AT THREE LOCATIONS: AT TOP JUST BELOW DOME, IN MIDDLE, AND AT BOTTOM.
2. SEE CONSTRUCTION PLANS FOR BOLLARD LAYOUT AT VARIOUS SITE BUILDINGS, CONTACT STATIONS, AND SIDEWALKS.



SECTION

FIXED BOLLARD



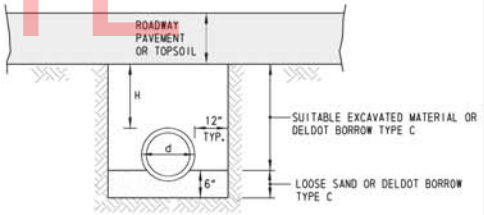
NOTE:
ALL STEEL SHALL BE
HOT DIPPED GALVANIZED
AFTER FABRICATION

SECTION

PLAN VIEW

REMOVABLE BOLLARD

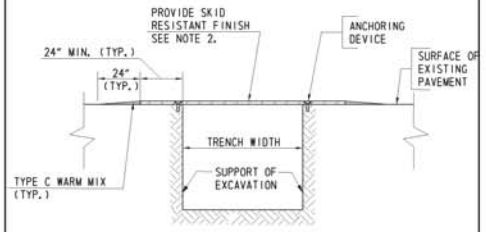
BOLLARD DETAILS (720556)



PIPE TRENCH NOTES:

1. EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 208.
2. THE ENGINEER SHALL DETERMINE WHAT PORTION, IF ANY, OF THE EXCAVATED MATERIAL IS SUITABLE FOR BORROW TYPE C OR TYPE F.
3. COMPACTION WITHIN EXISTING OR PROPOSED PAVEMENT AND SHOULDER AREAS SHALL MEET OR EXCEED 95%. ALL OTHER AREAS SHALL BE 90% OR MORE.
4. ALL DIMENSIONS ARE TO THE OUTSIDE WALL OF PIPES.
5. WHERE A STEEL PLATE IS USED WITH A PIPE TRENCH DETAIL, THE LIMITS OF WARM MIX, TYPE C, PATCHING SHALL BE MODIFIED AS SHOWN ON THE STEEL PLATE DETAIL.
6. FOR INSTALLATION OF LIGHTING CONDUIT, INSTALL MARKING TAPE A MINIMUM OF 6" BENEATH FINISHED GRADE. PAYMENT TO BE INCIDENTAL TO THE LIGHTING CONDUIT ITEM BEING INSTALLED.

PIPE/CONDUIT TRENCH DETAIL

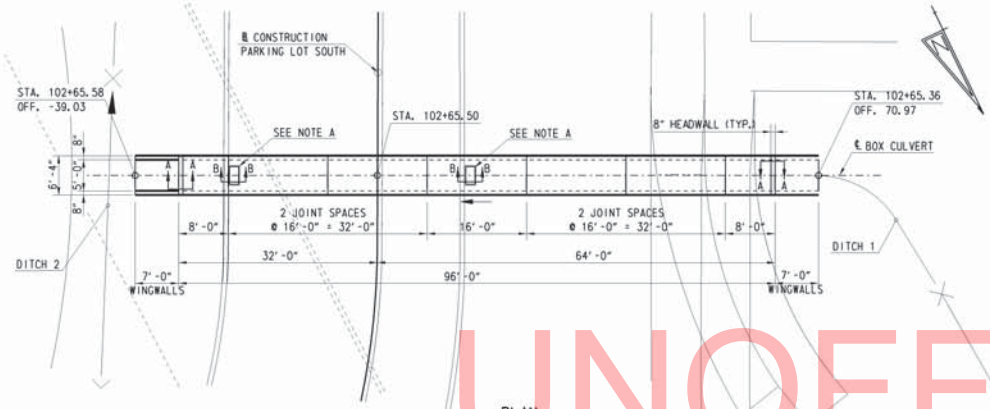


STEEL PLATE NOTES:

1. TO MAINTAIN TRAFFIC AND SAFETY, STEEL PLATES SHALL BE PERMITTED TO TEMPORARILY BRIDGE TRENCH EXCAVATIONS. THE STEEL PLATES SHALL BE OF SIZE TO ADEQUATELY CARRY A LOADING OF HS25 WITHOUT DETRIMENTAL DEFLECTION AS DETERMINED BY THE ENGINEER. SHOP DRAWINGS, INCLUDING DESIGN AND DETAILS, SHALL BE PREPARED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN DELAWARE, AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FURNISHING PLATES TO THE PROJECT SITE. THE SHOP DRAWINGS SHALL INCLUDE PLATE THICKNESS, METHOD OF FASTENING PLATES, SPAN, BEARING, SUPPORT OF EXCAVATION METHOD (E.G. SHEETING, SHORING, BRACING, ETC.), AND METHOD OF PREVENTING MOVEMENT OF PLATES. THE PLATES SHALL BE FITTED IN PLACE IN A MANNER TO MINIMIZE NOISE WHEN CROSSED BY TRAFFIC.
2. ALL PLATING USED TO COVER EXCAVATED AREAS SHALL BE ETCHED AND/OR ABRASIVELY COATED TO REDUCE THE EXTENT OF VEHICLE SLIDING UPON BRAKE APPLICATION. METHOD(S) OF ACHIEVING PLATE ABRASIVE TEXTURE SHALL BE SUBMITTED FOR THE ENGINEER'S APPROVAL PRIOR TO FURNISHING PLATES TO THE PROJECT SITE.
3. STEEL PLATES SHALL NOT BE USED DECEMBER THROUGH MARCH.
4. THE COST OF FURNISHING, PLACING, MAINTAINING AND REMOVING THE PLATES, THE LABOR, TOOLS, EQUIPMENT, AND HOT-MIX NECESSARY TO COMPLETE THE WORK SHALL BE INCIDENTAL TO THE PIPE OR UTILITY ITEM BEING INSTALLED.

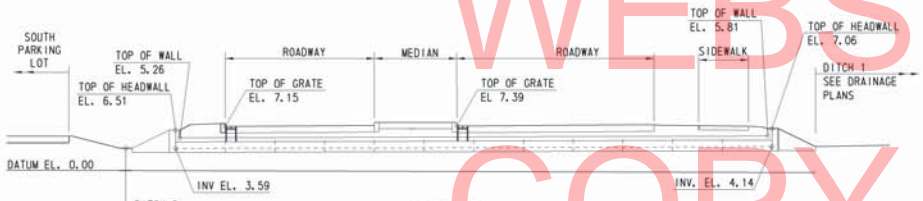
STEEL PLATE DETAIL

UNOFFICIAL WEBSITE COPY

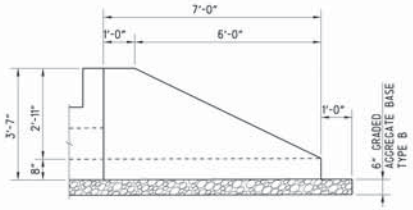


PLAN
SCALE: 1" = 10'

NOTE A:
INSTALL GRATE AND FRAME ON MORTAR SETTING BED AS REQUIRED TO ACHIEVE FINISHED GRADE AT GUTTER LINE. PROVIDE 34" x 18" OPENING IN TOP OF CULVERT AT INLET GRATE LOCATION. SEE DETAIL. COST OF FRAME, GRATE AND CURB HEAD SHALL BE INCIDENTAL TO ITEM 602510. USE TYPE B DRAINAGE INLET TOP UNIT MODIFIED FOR A 6" HIGH CURB AND THE PARKING LOT GRADES.

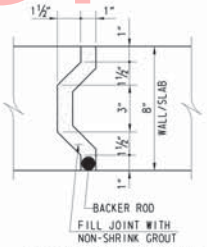


PROFILE
SCALE: 1" = 10'

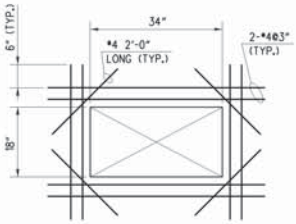


NOTE:
WINGWALL REINFORCING SHALL BE SIMILAR TO CULVERT BUT WITHOUT A TOP SLAB.

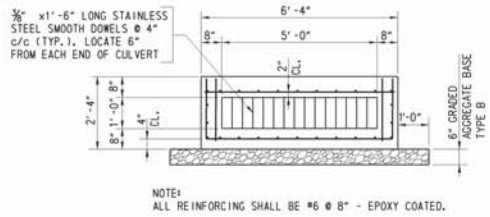
WINGWALL ELEVATION
SCALE: 1/2" = 1'-0"



CULVERT JOINT DETAIL
SCALE: 3" = 1'-0"

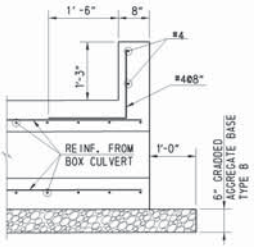


REINFORCING DETAIL AT GRATE OPENING
SCALE: 3/4" = 1'-0"

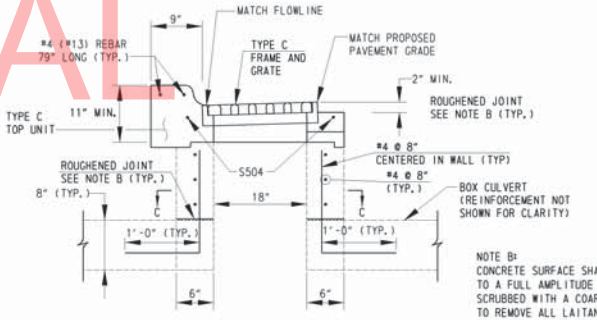


NOTE:
ALL REINFORCING SHALL BE #6 @ 8" - EPOXY COATED.

TYPICAL CULVERT SECTION
SCALE: 1/2" = 1'-0"

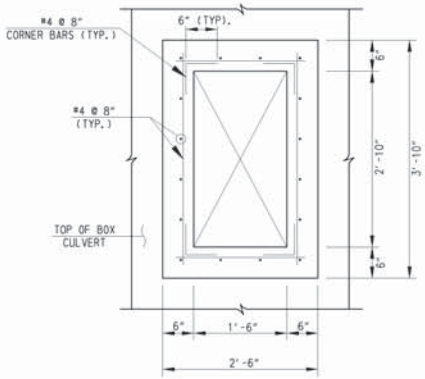


SECTION A-A
SCALE: 3/4" = 1'-0"



SECTION B-B
SCALE: 3/4" = 1'-0"

NOTE B:
CONCRETE SURFACE SHALL BE ROUGHENED TO A FULL AMPLITUDE OF 1/4" AND SCRUBBED WITH A COARSE WIRE BRUSH TO REMOVE ALL LAITANCE AND PROVIDE A ROUGHENED SURFACE FOR BONDING NEW CONCRETE TO EXISTING CONCRETE.



SECTION C-C
SCALE: 3/4" = 1'-0"

BOX CULVERT - 5' WIDE X 1' DEEP

NOTE:
CULVERT SHALL BE PAID FOR PER LUMP SUM USING ITEM (602510).

UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE AS NOTED	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	CONSTRUCTION DETAILS (BASE BID)	DT02-B8
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 72
					CHECKED BY: RK&K		TOTAL SHTS. 282

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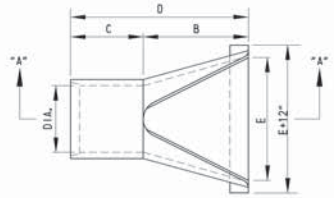
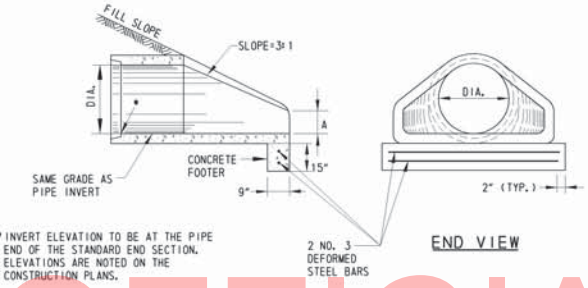


PLAN

ISOMETRIC VIEW



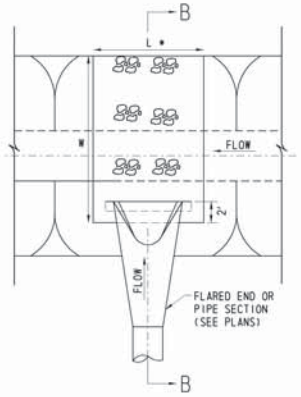
* INVERT ELEVATION TO BE AT THE PIPE END OF THE STANDARD END SECTION. ELEVATIONS ARE NOTED ON THE CONSTRUCTION PLANS.

END VIEW

SECTION A-A

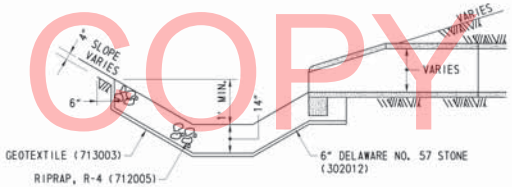
DIAMETER	A	B	C	D	E
15"	6"	2'-3"	3'-10"	6'-1"	2'-6"
18"	9"	2'-3"	3'-10"	6'-1"	3'-0"
24"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"

CONCRETE FLARED END SECTION



PLAN

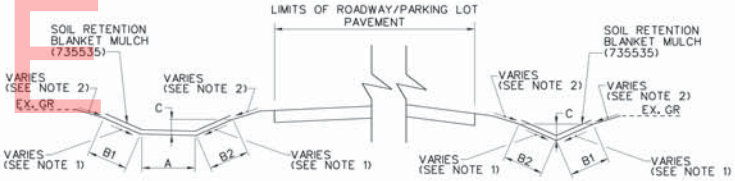
* L IS THE LINED DITCH LENGTH, MEASURED ALONG DITCH CENTERLINE.



SECTION B-B

NOTE: SEE DRAINAGE PLANS FOR R4 RIPRAP SCHEDULES.

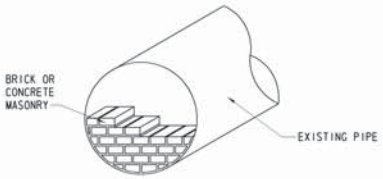
R-4 RIPRAP DITCH OUTFALL



NOTE:

1. SEE DRAINAGE PLANS FOR DITCH TYPE, WIDTH, SIDE SLOPES, AND DEPTH.
2. SEE GRADES AND GEOMETRICS - GRADING PLAN FOR SIDE SLOPES BETWEEN PROPOSED PARKING LOT/ROAD/EXISTING GROUND TO THE TOP OF THE PROPOSED DITCH SIDE SLOPE.

DITCH LINING DETAIL



NOTE: PIPE OPENINGS 24" IN DIAMETER AND SMALLER SHALL BE PLUGGED WITH A BRICK OR CONCRETE MASONRY BULKHEAD OF 8" MINIMUM THICKNESS. PIPE OPENINGS LARGER THAN 24" SHALL BE PLUGGED WITH A BRICK OR CONCRETE MASONRY BULKHEAD OF 12" MINIMUM THICKNESS. PAYMENT SHALL BE INCLUDED IN ITEM 202000.

PLUG EXISTING PIPE

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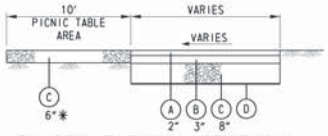
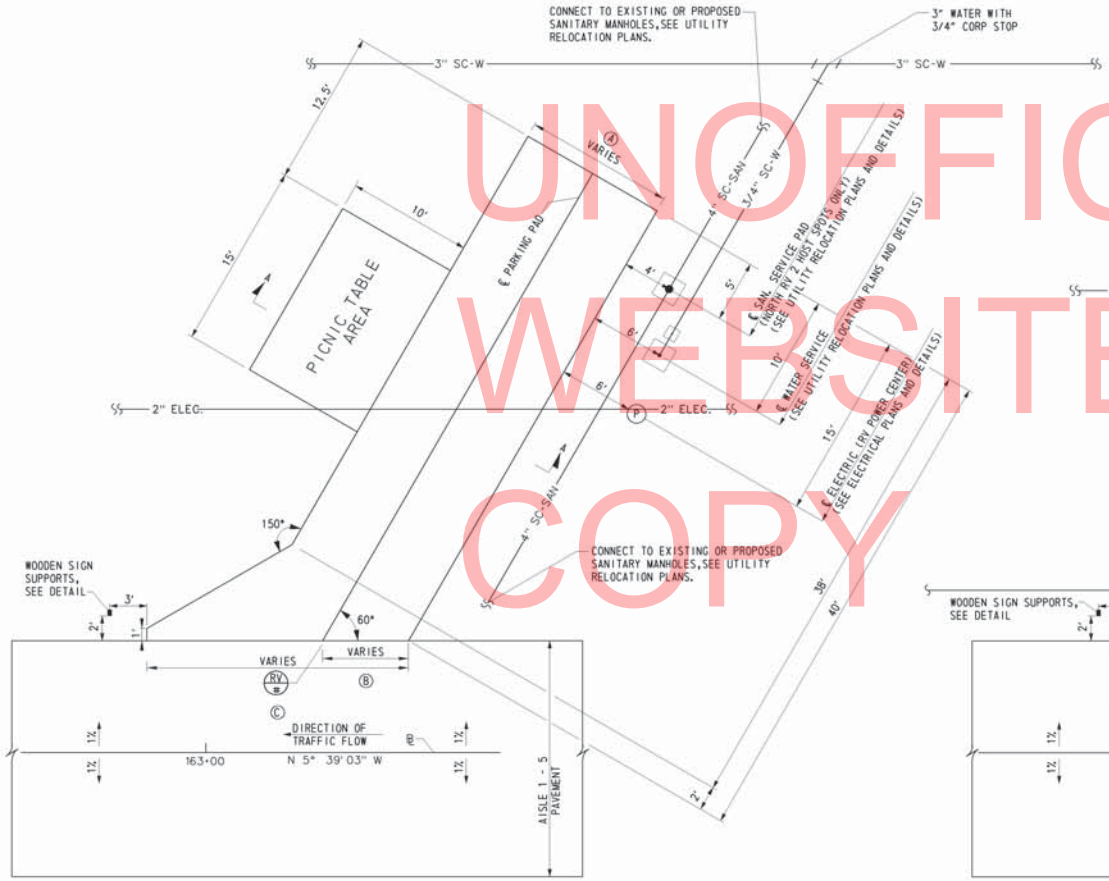


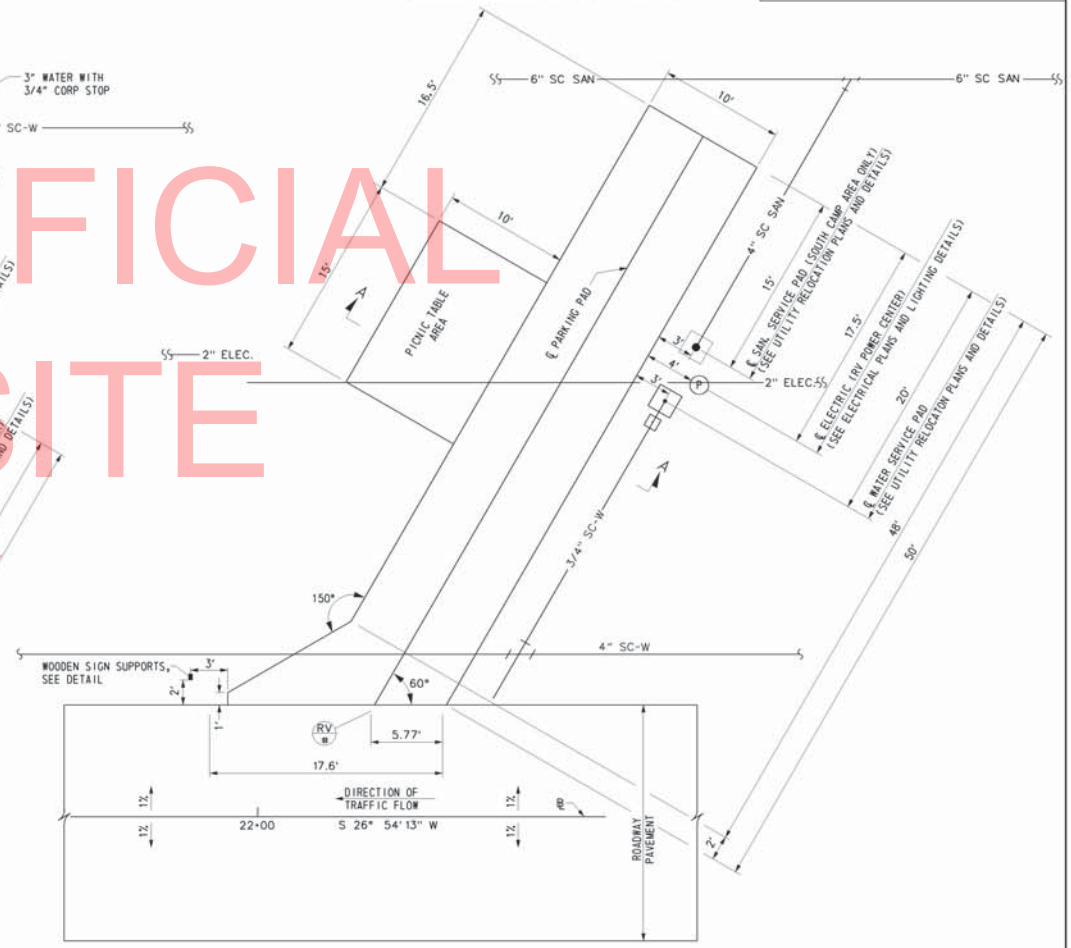
*FOR ALL NORTH RV LOT ADA ACCESSIBLE SPOTS THE PICNIC TABLE AREA WILL BE CHOKED WITH 1.5" STONE DUST ROLLED INTO GRADDED AGGREGATE.

RV PAD TYPICAL SECTION

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 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (D) ITEM 713002 - GEOTEXTILE, SEPARATION





NORTH RV LOT

TYPE	DIMENSIONS		
	A	B	C
1	12'	6.93'	21.05'
2 **	20'	11.5'	30.28'

** ADA ACCESSIBLE

NORTH RV LOT
PAD TYPE 1 & 2

SOUTH RV LOT
PAD TYPE 3

RV SPACE DETAILS

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	CONSTRUCTION DETAILS (BASE BID)	DT04-BB / SHEET NO. 74 / TOTAL SHTS. 282

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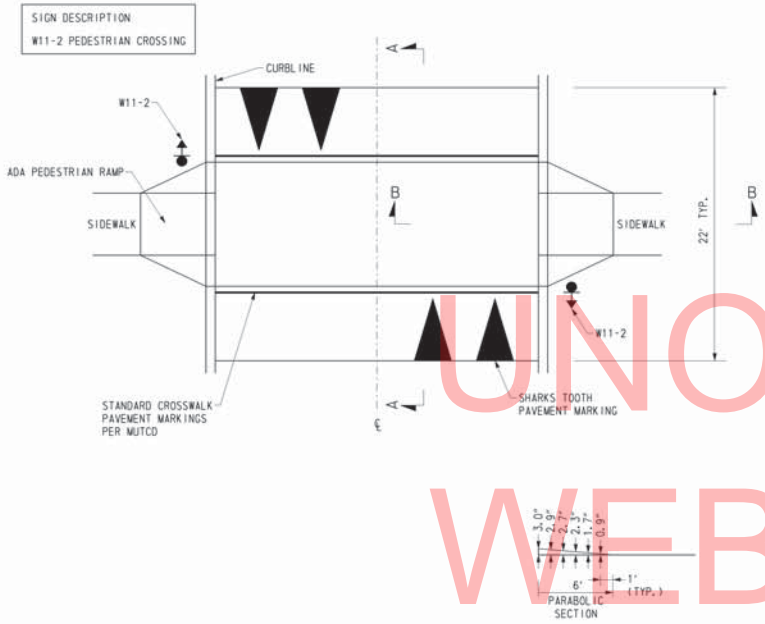
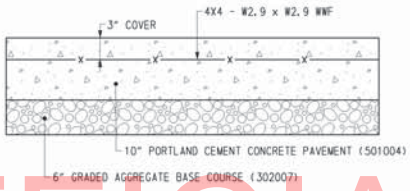


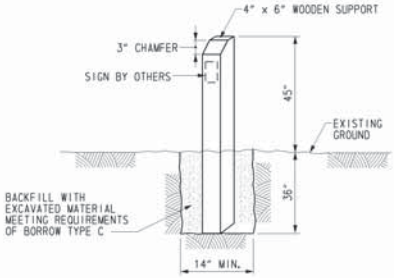
TYPICAL RAISED CROSSWALK



NOTE: 4X4 WWF SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN ITEM 501004.

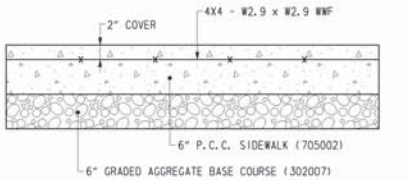
DUMP STATION AND DUMPSTER PAD PAVING DETAIL

N. T. S.



WOODEN SIGN SUPPORTS, 4"x6" (743539)
(RV SPOT AND TENT CAMPGROUND SPACE MARKERS)

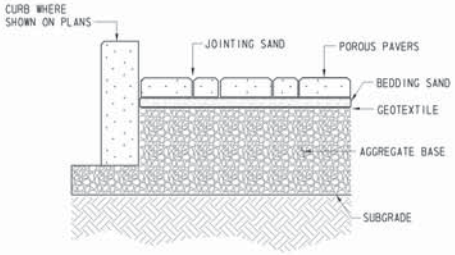
N. T. S.



NOTE: 4X4 WWF SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN ITEM 705002.

BUS STOP PAD PAVING DETAIL

N. T. S.



POROUS FLEXIBLE PAVEMENT (401510)

N. T. S.

NOTE:
THE DETAIL FOR POROUS FLEXIBLE PAVEMENT IS SHOWN FOR GENERAL GUIDANCE. THE SPECIFIC DETAILS OF THE SYSTEM SHALL BE PER THE SPECIFIC MANUFACTURER'S SPECIFICATIONS. THE SUPPORT SYSTEM FOR POUROUS FLEXIBLE PAVEMENT SHALL BE:
1. ECO PAVER - MANUFACTURED BY E.P. HENRY CORP.
2. AQUALOC - MANUFACTURED BY HANOVER ARCHITECTURAL PRODUCTS.
3. UNI ECHO STONE - MANUFACTURED BY UNILOCK
4. APPROVED EQUAL

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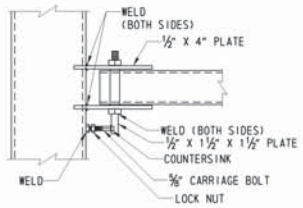
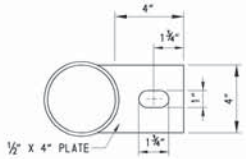
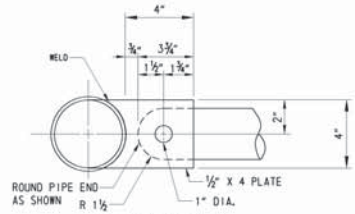
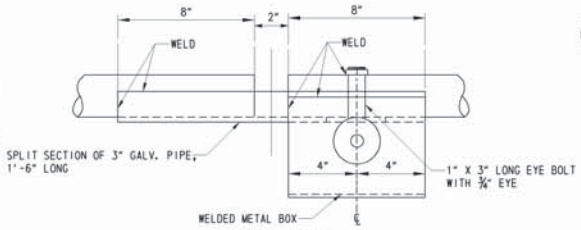




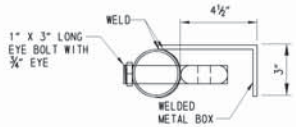
DETAIL "D"
(BOTTOM HANGER)



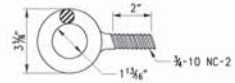
SECTION A-A
(TOP HANGER)



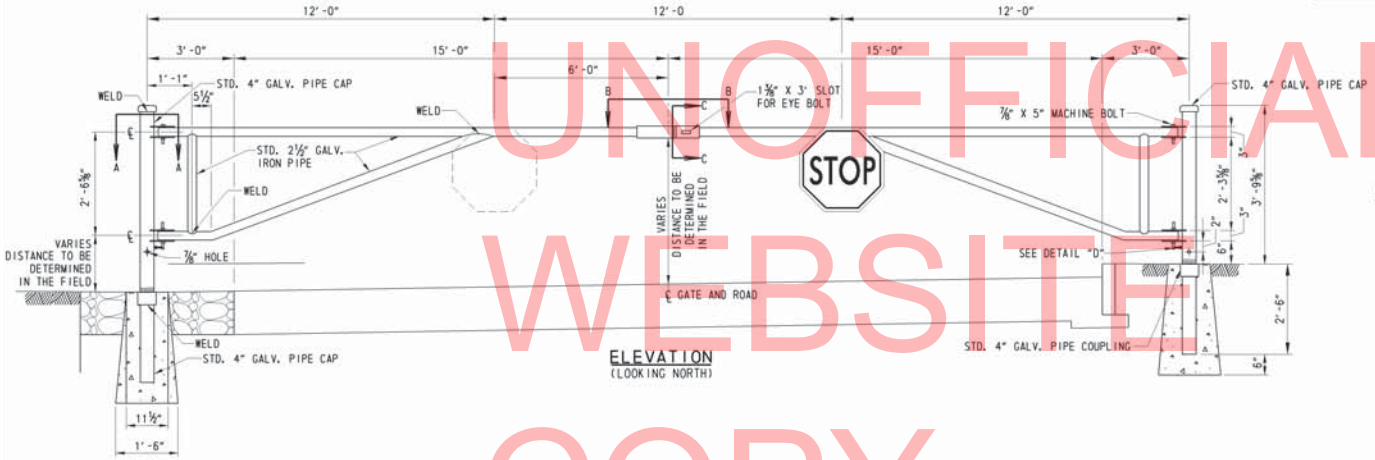
VIEW B-B



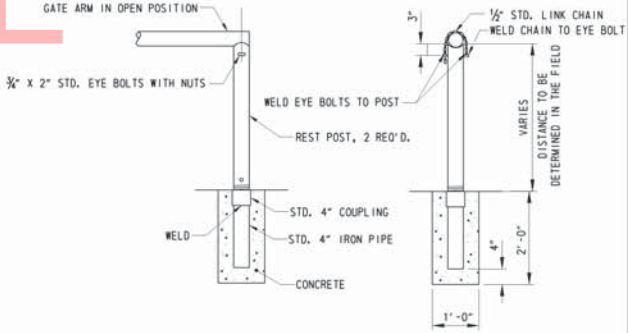
SECTION C-C



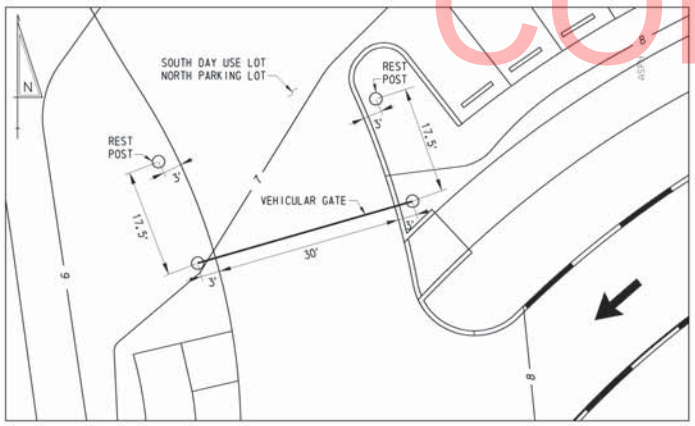
STD. EYE BOLT DETAIL



ELEVATION
(LOOKING NORTH)



REST POST DETAIL



PLAN
SCALE: 1" = 10'

NOTES:

1. CLOSE TOP END OF REST POSTS WITH 4½"DIA. X ⅛"THICK STEEL PLATE, FORM TO FIT AND WELD IN PLACE.
2. MOUNT ONE "STOP" SIGN ON EACH GATE AS SHOWN.
3. VEHICULAR GATE (SPECIAL) SHALL BE PAID FOUR USING ITEM NUMBER (727521).

VEHICULAR GATE - SPECIAL (727521)

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	CONSTRUCTION DETAILS (BASE BID)	DT06-BB
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 76
					CHECKED BY: RK&K		TOTAL SHTS. 282

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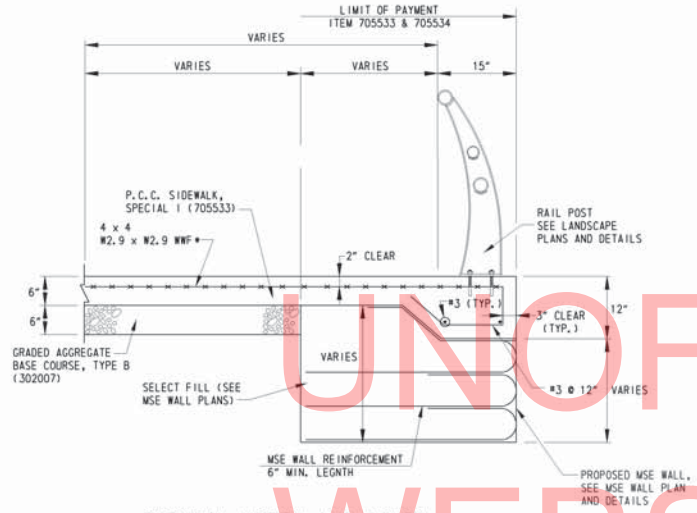
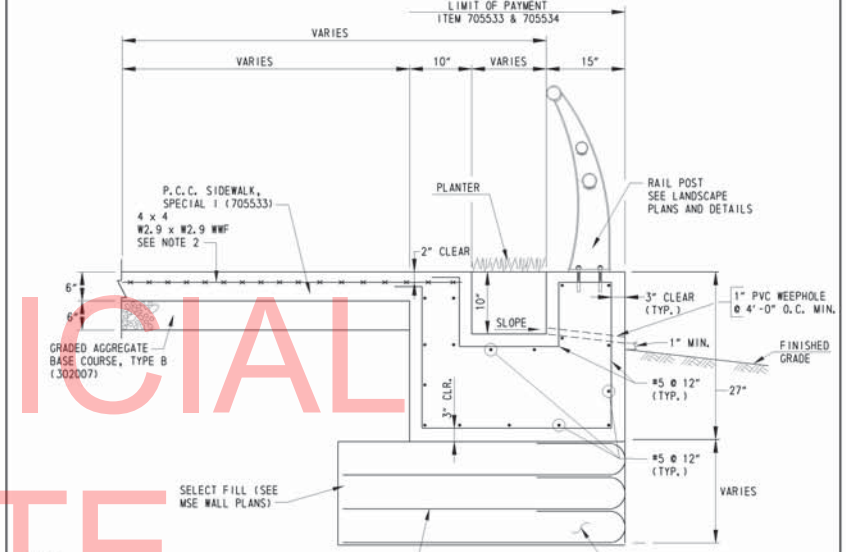


NOTE:
ALL ADDITIONAL CONCRETE AND REINFORCING REQUIRED TO CONSTRUCT THE HAUNCH SHALL BE INCIDENTAL TO THE RESPECTIVE P.C.C. SIDEWALK ITEM BEING INSTALLED

TYPICAL NORTH AND SOUTH PROMENADE HAUNCH AND REINFORCING DETAIL

N.T.S.

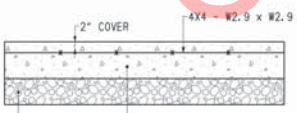
* NOTE:
WWF SHALL BE INCIDENTAL TO THE RESPECTIVE P.C.C. SIDEWALK ITEM BEING INSTALLED.



NOTES:
1. ALL ADDITIONAL CONCRETE AND REINFORCING REQUIRED TO CONSTRUCT THE HAUNCH SHALL BE INCIDENTAL TO THE RESPECTIVE P.C.C. SIDEWALK ITEM BEING INSTALLED.
2. ALL REINFORCING STEEL SHALL BE INCIDENTAL TO THE RESPECTIVE P.C.C. SIDEWALK ITEM BEING INSTALLED.
3. THE HAUNCH AND THE ADJACENT PROMENADE SHALL BE MONOLITHIC. NO CONSTRUCTION JOINT SHALL BE ALLOWED.

TYPICAL PAVILION 7B AND 7C PROMENADE EXTENDED HAUNCH AND REINFORCING DETAIL

N.T.S.



* NOTE:
WWF SHALL BE INCIDENTAL TO THE RESPECTIVE P.C.C. SIDEWALK ITEM BEING INSTALLED.

SHOWER SLAB DETAIL

N.T.S.

UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	CONSTRUCTION DETAILS (ADD ALTERNATES)	DT07-AA
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 77
					CHECKED BY: RK&K		TOTAL SHTS. 282

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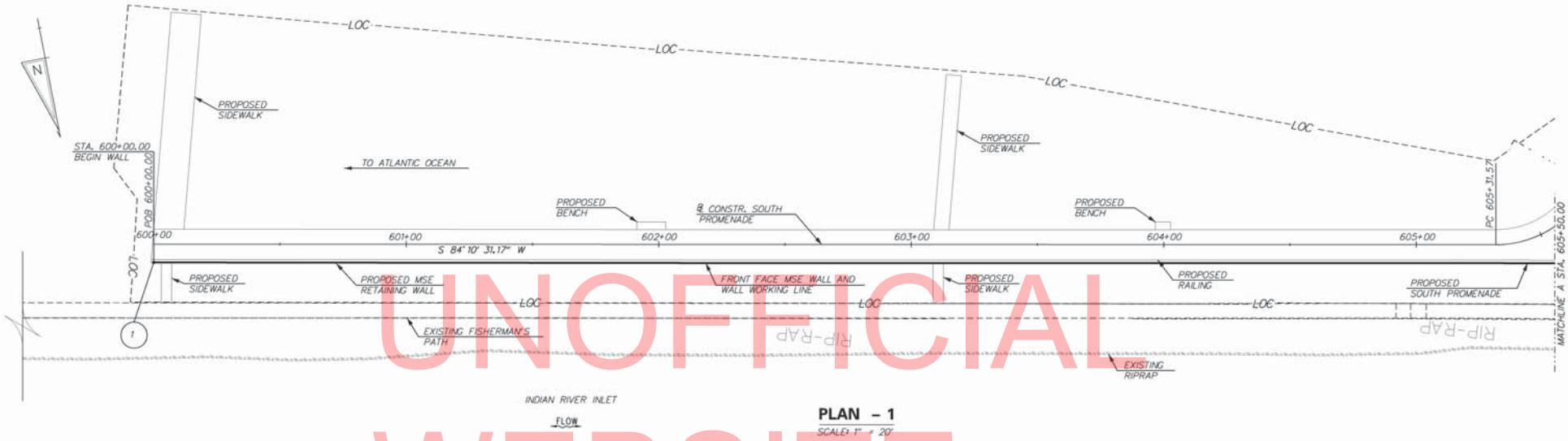
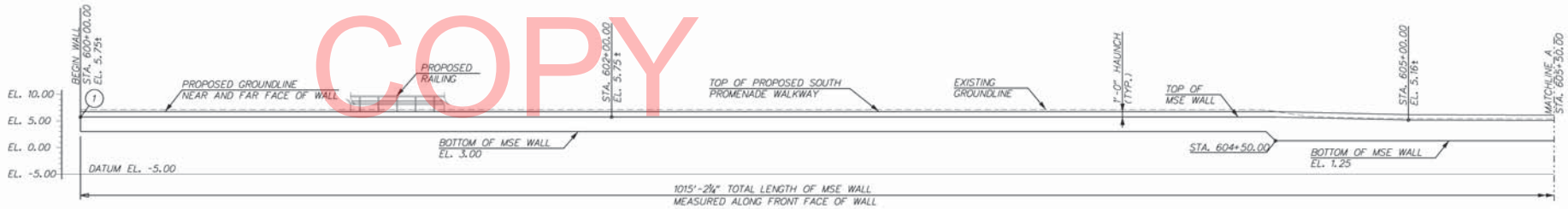


PLAN – 1

SCALE: 1" = 20'



NOTES:

1. FOR MSE RETAINING WALL GENERAL NOTES AND TYPICAL SECTION, SEE DWG. NO. S06-AA.
2. FOR MSE RETAINING WALL WORKING POINT LOCATIONS, SEE DWG. NO. S02-AA.
3. SEE LANDSCAPE PLANS FOR PROPOSED SIDEWALK, RAILING, AND BENCH DETAILS.
4. FOR PROPOSED PROMENADE DETAILS, SEE DWG. NO. DT06-AA.

NOTE:
PROPOSED BENCHES NOT SHOWN FOR CLARITY.

ELEVATION – 1

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'

LEGEND

(#) - WORKING POINT

UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 20 40 60 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	SOUTH PROMENADE RETAINING WALL GENERAL PLAN AND ELEVATION – 1 (ADD ALTERNATES)	S01-AA
				COUNTY SUSSEX	DESIGNED BY: BBS		SHEET NO. 78
					CHECKED BY: JW		TOTAL SHTS. 282

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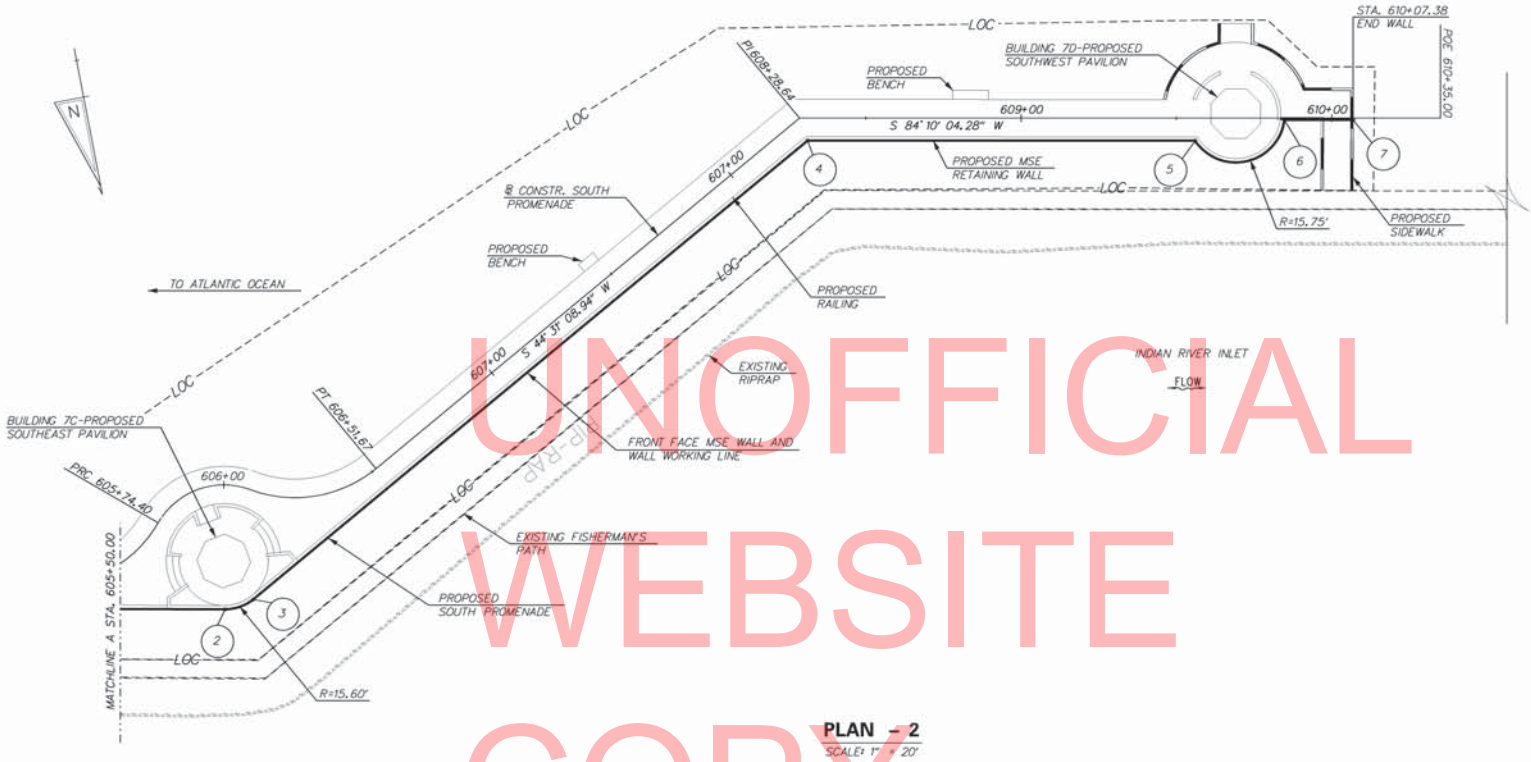


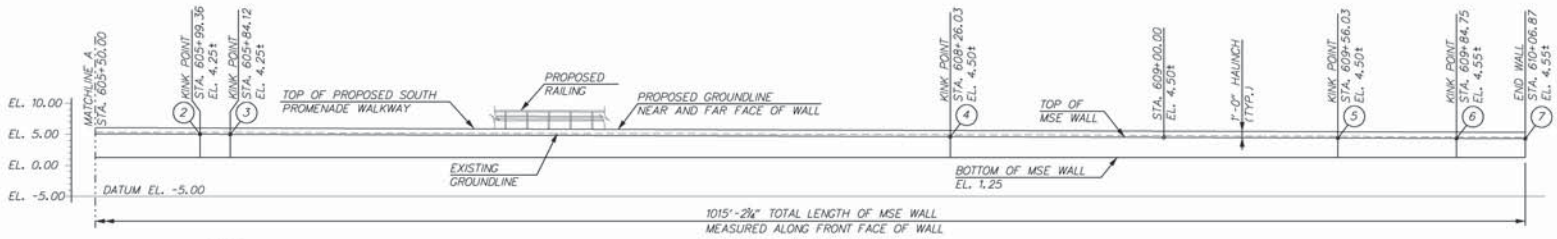
MSE RETAINING WALL WORKING POINTS			
POINT	STATION	OFFSET	ELEV.
1	600+00.00	7.250' RT.	3.0
2	605+99.36	40.099' RT.	1.25
3	605+84.12	40.099' RT.	1.25
4	608+26.03	7.250' RT.	1.25
5	609+56.03	7.250' RT.	1.25
6	609+84.75	0.512' RT.	1.25
7	610+06.87	0.512' RT.	1.25

NOTES:

1. FOR MSE RETAINING WALL GENERAL NOTES AND TYPICAL SECTION, SEE DWG. NO. S06-AA.
2. SEE LANDSCAPE PLANS FOR PROPOSED SIDEWALK, RAILING, AND BENCH DETAILS.
3. SEE ARCHITECTURAL PLANS FOR BUILDINGS 7C AND 7D LAYOUT AND DETAILS.
4. FOR PROPOSED PROMENADE DETAILS, SEE DWG. NO. DT06-AA.

PLAN – 2

SCALE: 1" = 20'



NOTE:
PROPOSED BENCHES AND PAVILION
NOT SHOWN FOR CLARITY.

ELEVATION – 2

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'

LEGEND

(#) - WORKING POINT

UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 20 40 60 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	SOUTH PROMENADE RETAINING WALL GENERAL PLAN AND ELEVATION – 2 (ADD ALTERNATES)	S02-AA
				COUNTY SUSSEX	DESIGNED BY: BBS		SHEET NO. 79
					CHECKED BY: JW		TOTAL SHTS. 282

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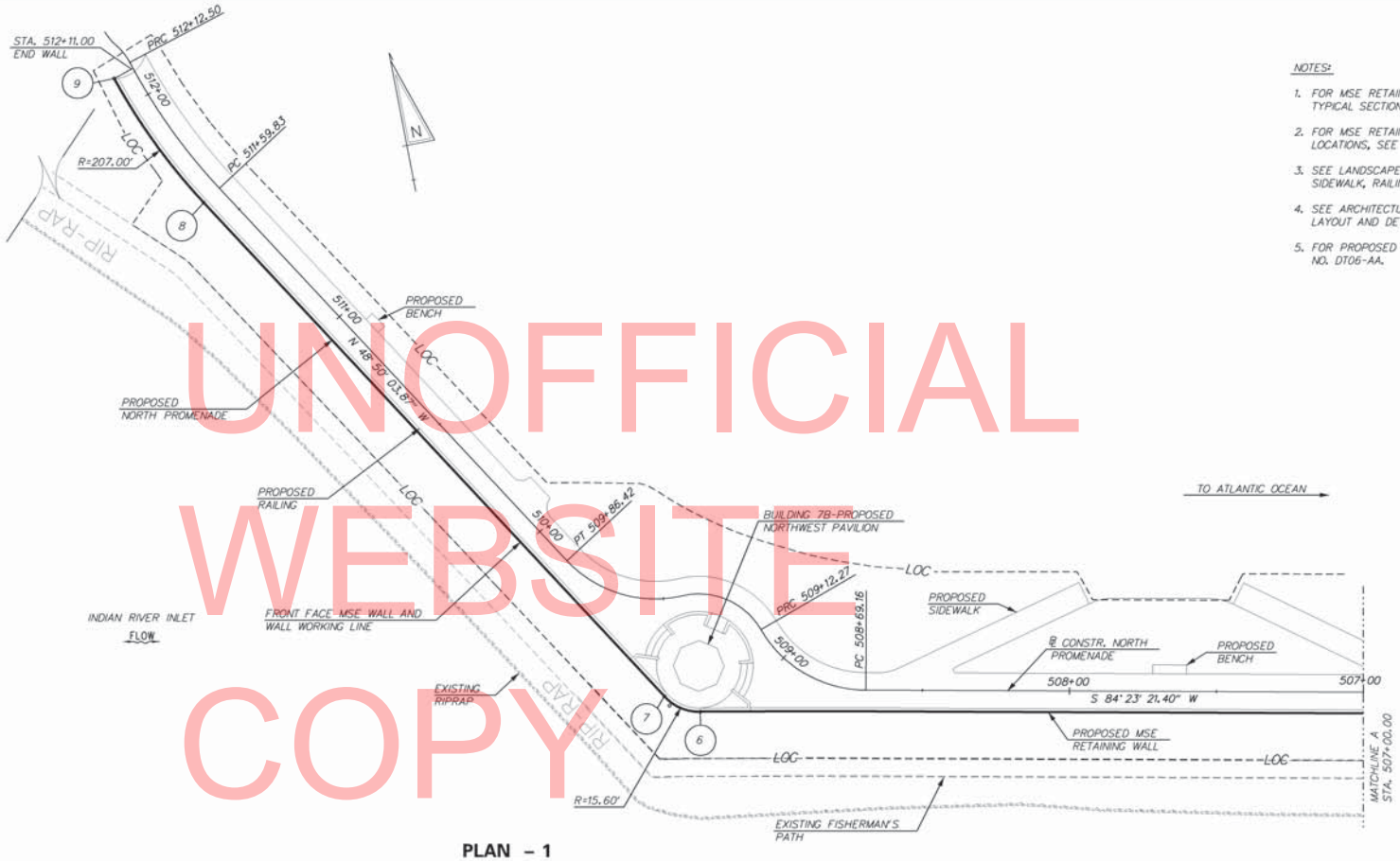
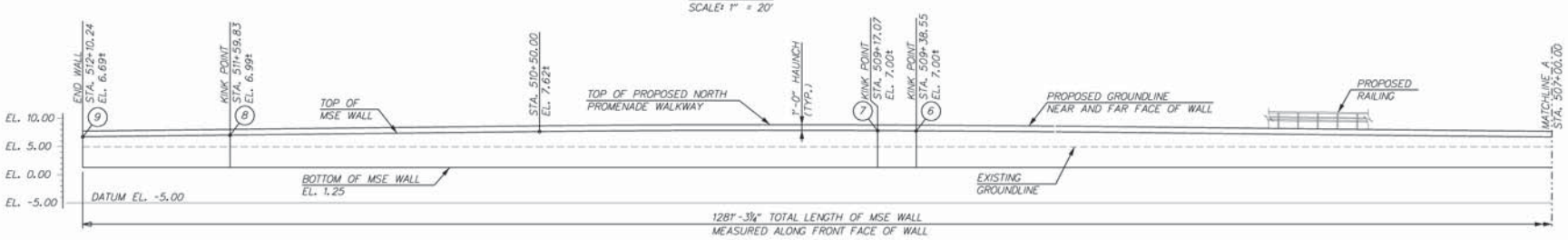
NOTES:

1. FOR MSE RETAINING WALL GENERAL NOTES AND TYPICAL SECTION, SEE DWG. NO. S06-AA.
2. FOR MSE RETAINING WALL WORKING POINT LOCATIONS, SEE DWG. NO. S05-AA.
3. SEE LANDSCAPE PLANS FOR PROPOSED SIDEWALK, RAILING, AND BENCH DETAILS.
4. SEE ARCHITECTURAL PLANS FOR BUILDING 7B LAYOUT AND DETAILS.
5. FOR PROPOSED PROMENADE DETAILS, SEE DWG. NO. DT06-AA.



PLAN – 1

SCALE: 1" = 20'



NOTE:
PROPOSED PAVILION AND BENCHES NOT SHOWN FOR CLARITY.

ELEVATION – 1

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'

LEGEND

(#) - WORKING POINT

UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 20 40 60 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	NORTH PROMENADE RETAINING WALL GENERAL PLAN AND ELEVATION – 1 (ADD ALTERNATES)	S03-AA
				COUNTY SUSSEX	DESIGNED BY: BBS		SHEET NO. 80
					CHECKED BY: JW		TOTAL SHTS. 282

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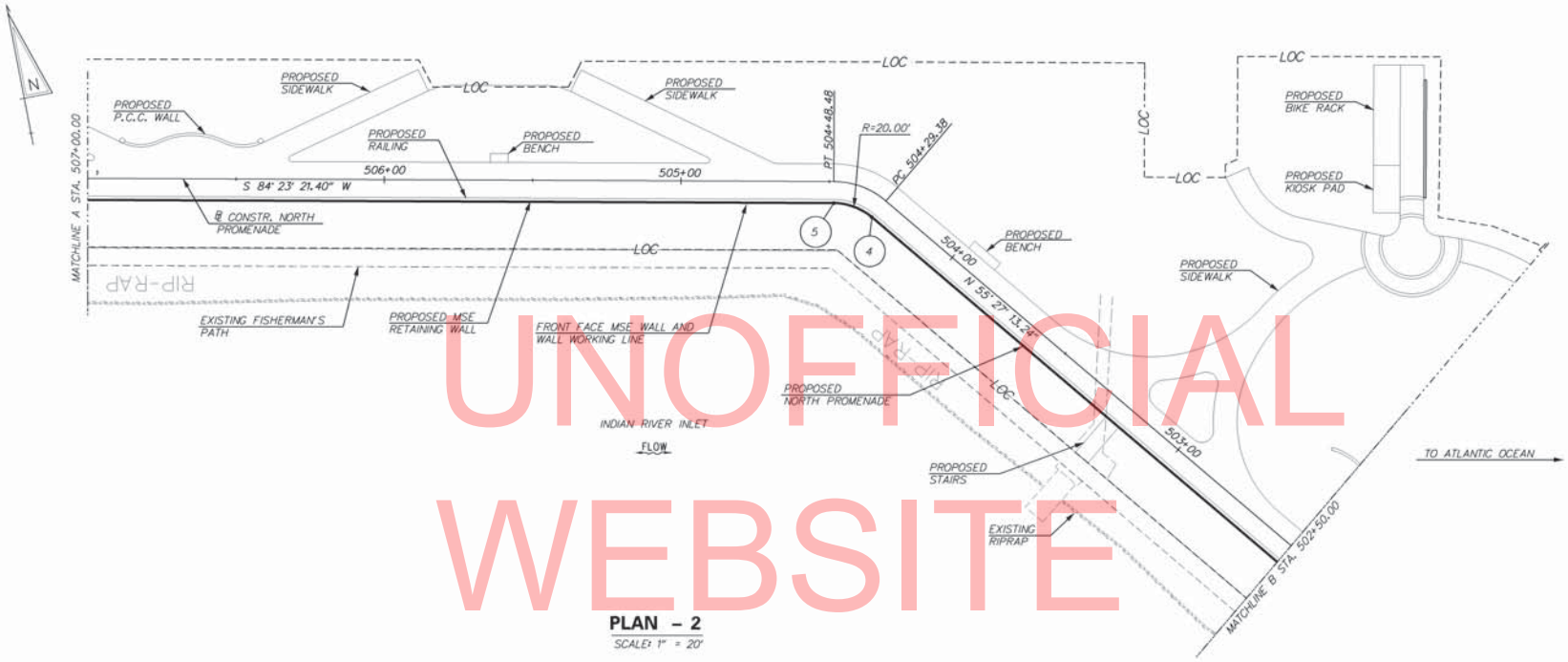

PLAN – 2

SCALE: 1" = 20'

NOTES:

1. FOR MSE RETAINING WALL GENERAL NOTES AND TYPICAL SECTION, SEE DWG. NO. S06-AA.
2. FOR MSE RETAINING WALL WORKING POINT LOCATIONS, SEE DWG. NO. S05-AA.
3. SEE LANDSCAPE PLANS FOR PROPOSED SIDEWALK, RAILING, KIOSK, BIKE RACK, BENCH, AND P.C.C. WALL LAYOUT AND DETAILS.
4. FOR PROPOSED PROMENADE DETAILS, SEE DWG. NO. DT06-AA.

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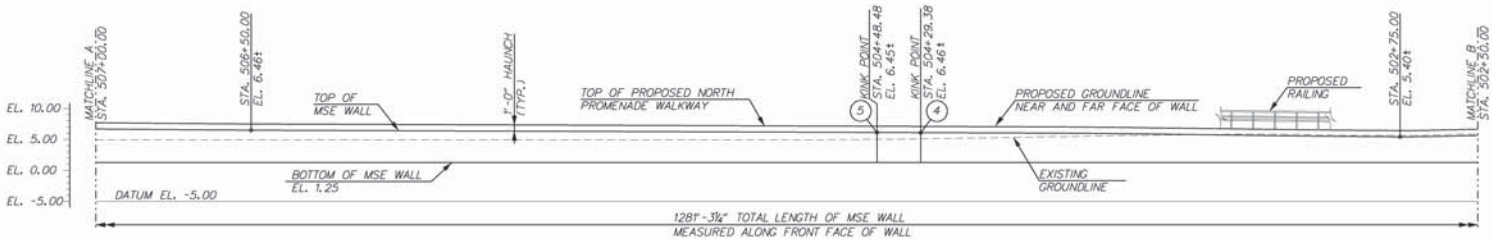

ELEVATION – 2

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'

NOTE:
PROPOSED BENCHES, STAIRS, KIOSK, AND BIKE RACK NOT SHOWN FOR CLARITY.

LEGEND

(#) - WORKING POINT

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 20 40 60 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	NORTH PROMENADE RETAINING WALL GENERAL PLAN AND ELEVATION – 2 (ADD ALTERNATES)	S04-AA
				COUNTY SUSSEX	DESIGNED BY: BBS		SHEET NO. 81
					CHECKED BY: JW		TOTAL SHTS. 282

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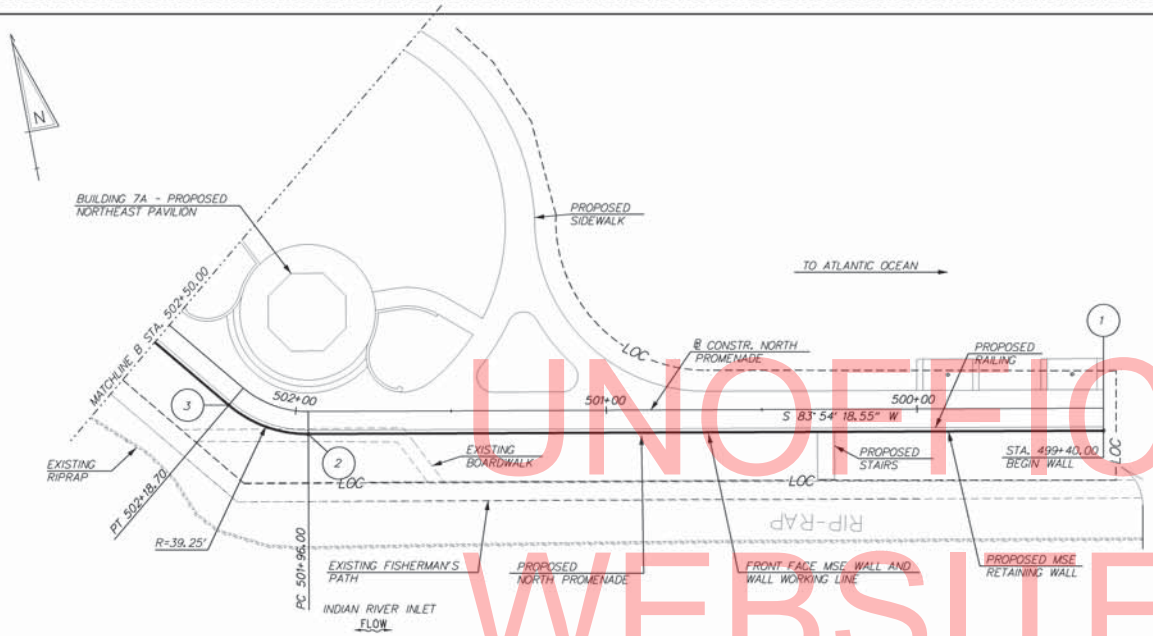

PLAN – 3

SCALE: 1" = 20'

MSE RETAINING WALL LOCATION			
POINT	STATION	OFFSET	ELEV.
1	499+40.00	7.250' LT.	1.25
2	501+96.00	7.250' LT.	1.25
3	502+18.70	7.250' LT.	1.25
4	504+29.38	7.250' LT.	1.25
5	504+48.48	7.250' LT.	1.25
6	509+38.55	40.099' LT.	1.25
7	509+17.07	40.099' LT.	1.25
8	511+59.83	7.250' LT.	1.25
9	512+10.24	7.250' LT.	1.25

NOTES:

1. FOR MSE RETAINING WALL GENERAL NOTES AND TYPICAL SECTION, SEE DWG. NO. S06-AA.
2. SEE LANDSCAPE PLANS FOR PROPOSED SIDEWALK AND RAILING DETAILS.
3. SEE ARCHITECTURAL PLANS FOR BUILDING 7A LAYOUT AND DETAILS.
4. FOR PROPOSED PROMENADE DETAILS, SEE DWG. NO. DT06-AA.

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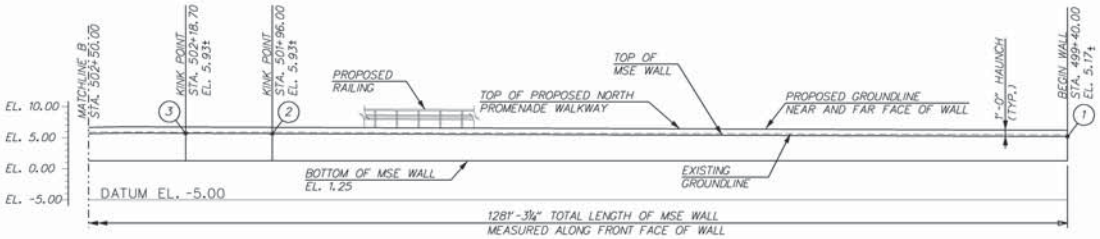

ELEVATION – 3

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'

NOTE:
PROPOSED STAIRS AND PAVILION NOT SHOWN FOR CLARITY.

LEGEND

(#) - WORKING POINT

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 20 40 60 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303 / COUNTY SUSSEX	BRIDGE NO. X / DESIGNED BY: BBS / CHECKED BY: JW	NORTH PROMENADE RETAINING WALL GENERAL PLAN AND ELEVATION – 3 (ADD ALTERNATES)	S05-AA / SHEET NO. 82 / TOTAL SHTS. 282

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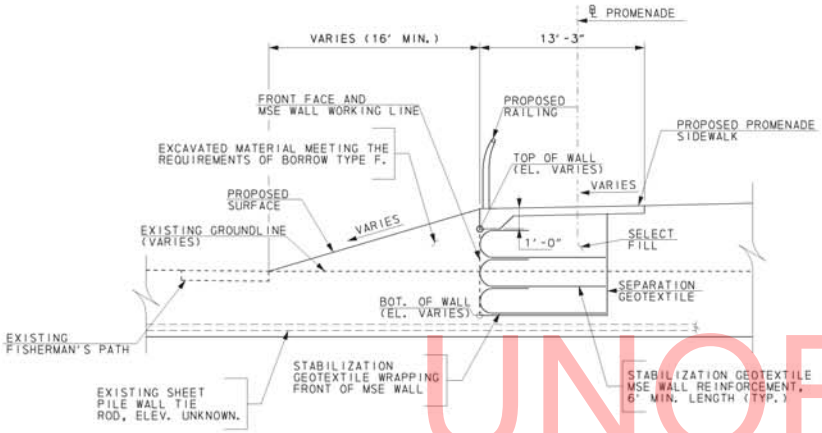


NOTES:

1. THE MSE WALL GEOSYNTHETIC REINFORCEMENT LAYOUT SHALL BE DETERMINED BY THE MANUFACTURER.
2. THE TOP, BOTTOM, AND BACK FACES OF THE MSE WALL SHALL BE WRAPPED WITH SEPARATION TYPE GEOTEXTILE.
3. GROUNDWATER MAY BE ENCOUNTERED DURING EXCAVATION FOR THE MSE WALL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE APPROPRIATE DEWATERING METHODS DURING CONSTRUCTION.
4. CARE SHALL BE TAKEN BY THE CONTRACTOR TO NOT DAMAGE EXISTING SHEET PILE WALL TIE RODS DURING EXCAVATION AND CONSTRUCTION OF THE PROPOSED WALL.
5. FOR PROPOSED RAILING DETAILS, SEE LANDSCAPE PLANS.
6. FOR PROPOSED PROMENADE SIDEWALK AND HAUNCH DETAILS, SEE DWG. NO. DT07-AA

GENERAL NOTES

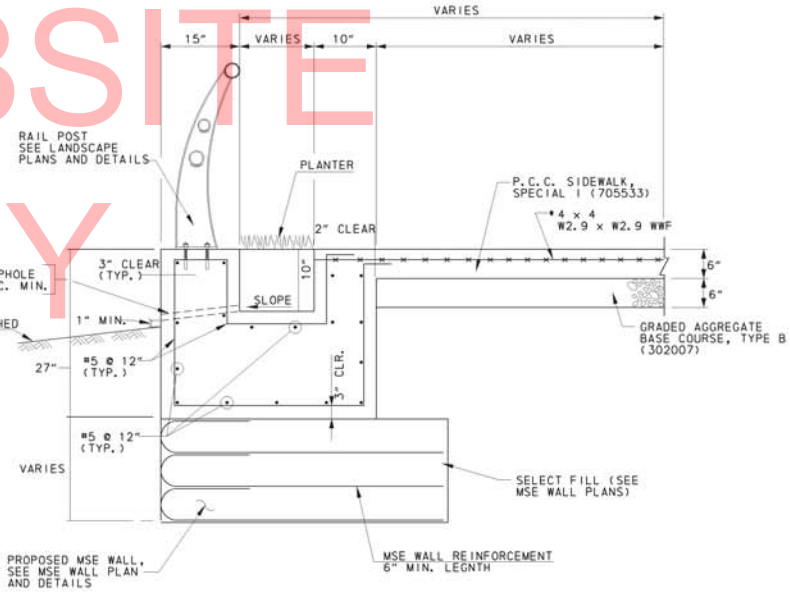
1. THE PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2001 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED 2001, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.
2. THE MSE WALL SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE FOLLOWING:
   - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH EDITION WITH ALL CURRENT REVISIONS.
   - FEDERAL HIGHWAY ADMINISTRATION PUBLICATION NO. FHWA-NHI-00-043, "MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES DESIGN AND CONSTRUCTION GUIDELINES".

MSE WALL TYPICAL SECTION

SOIL PARAMETERS FOR DESIGN		
SOIL TYPE	MOIST UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)
SELECT FILL	125	34
FOUNDATION SOIL	125	28

FOUNDATION NOTES

1. SLIDING, OVERTURNING, AND BEARING CAPACITY OF THE MSE WALL SHALL BE EVALUATED BY THE WALL SUPPLIER. THE ALLOWABLE BEARING CAPACITY AT THE MSE WALL SHALL BE DETERMINED BY THE CONTRACTOR AND SUBMITTED FOR APPROVAL BY THE ENGINEER.
2. THE INTERNAL STABILITY OF THE MSE WALL SHALL BE DESIGNED BY THE CONTRACTOR USING THE SOIL PARAMETERS PROVIDED. THE INTERNAL STABILITY SHOULD BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF DELAWARE. THE APPLIED BEARING STRESS SHALL NOT EXCEED THE BEARING RESISTANCE.
3. FILL IN REINFORCEMENT ZONES SHALL CONSIST OF GRANULAR SOIL FREE OF ORGANICS AND SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
4. ONSITE SOIL (TYPE F BORROW) MAY BE USED TO CONSTRUCT THE REMAINDER OF THE EMBANKMENT BEHIND THE MSE WALL. THIS SHOULD BE PLACED AND COMPACTED IN ACCORDANCE WITH SECTION 202 - EXCAVATION AND EMBANKMENT, DELAWARE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED AUGUST 2001 WITH SUPPLEMENTS.



NOTE:
ALL ADDITIONAL CONCRETE AND REINFORCING REQUIRED TO CONSTRUCT THE HAUNCH SHALL BE INCIDENTAL TO THE RESPECTIVE P.C.C. SIDEWALK ITEM BEING INSTALLED

TYPICAL PAVILION 7B AND 7C PROMENADE EXTENDED HAUNCH AND REINFORCING DETAIL

N.T.S.

*NOTE:
ALL REINFORCING STEEL SHALL BE INCIDENTAL TO THE RESPECTIVE P.C.C. SIDEWALK ITEM BEING INSTALLED.

UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: 1"=5'-0"	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	GENERAL NOTES AND TYPICAL SECTION (ADD ALTERNATES)	S06-AA
				COUNTY SUSSEX	DESIGNED BY: BBS		SHEET NO. 83
					CHECKED BY: JW		TOTAL SHTS. 282

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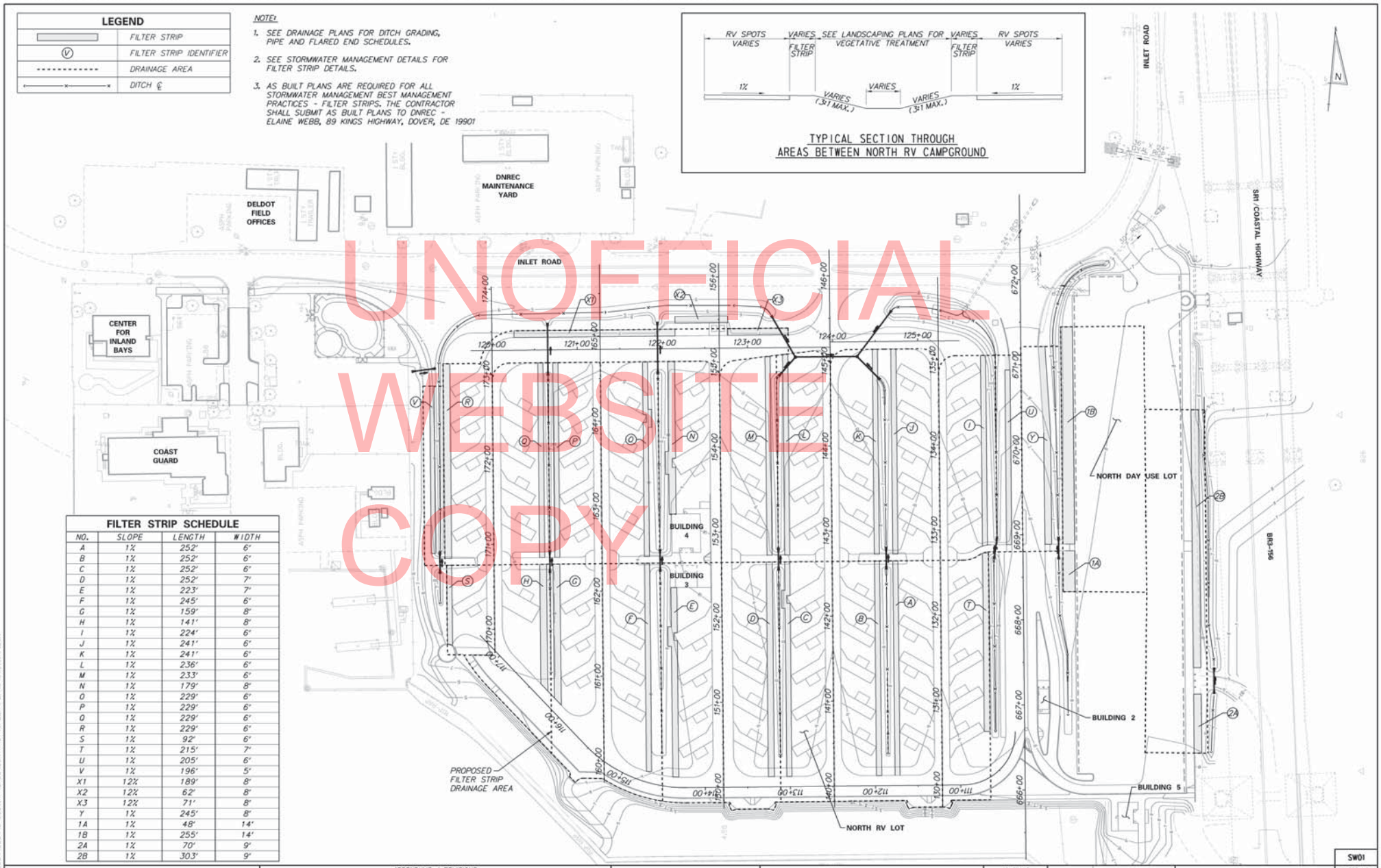
LEGEND	
	FILTER STRIP
(V)	FILTER STRIP IDENTIFIER
- - - - - - - -	DRAINAGE AREA
—×—×—	DITCH ℄

NOTE:

1. SEE DRAINAGE PLANS FOR DITCH GRADING, PIPE AND FLARED END SCHEDULES.
2. SEE STORMWATER MANAGEMENT DETAILS FOR FILTER STRIP DETAILS.
3. AS BUILT PLANS ARE REQUIRED FOR ALL STORMWATER MANAGEMENT BEST MANAGEMENT PRACTICES - FILTER STRIPS. THE CONTRACTOR SHALL SUBMIT AS BUILT PLANS TO DNREC - ELAINE WEBB, 89 KINGS HIGHWAY, DOVER, DE 19901

TYPICAL SECTION THROUGH AREAS BETWEEN NORTH RV CAMPGROUND



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FILTER STRIP SCHEDULE

NO.	SLOPE	LENGTH	WIDTH
A	1%	252'	6'
B	1%	252'	6'
C	1%	252'	6'
D	1%	252'	7'
E	1%	223'	7'
F	1%	245'	6'
G	1%	159'	8'
H	1%	141'	8'
I	1%	224'	6'
J	1%	241'	6'
K	1%	241'	6'
L	1%	236'	6'
M	1%	233'	6'
N	1%	179'	8'
O	1%	229'	6'
P	1%	229'	6'
Q	1%	229'	6'
R	1%	229'	6'
S	1%	92'	6'
T	1%	215'	7'
U	1%	205'	6'
V	1%	196'	5'
X1	12%	189'	8'
X2	12%	62'	8'
X3	12%	71'	8'
Y	1%	245'	8'
1A	1%	48'	14'
1B	1%	255'	14'
2A	1%	70'	9'
2B	1%	303'	9'

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	

STORMWATER MANAGEMENT PLAN

SW01
SHEET NO. 84
TOTAL SHTS. 282

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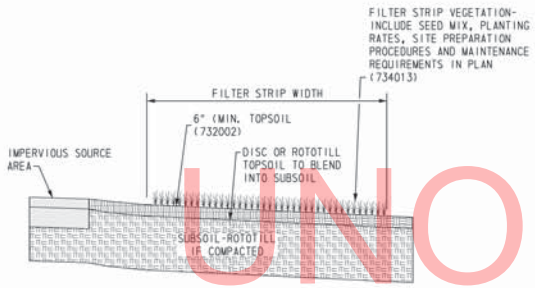

TYPICAL DETAIL
FILTER STRIP SECTION

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CMS$_1$ AND CMS$_2$

PRIOR TO CONSTRUCTION & AFTER CONSTRUCTION COMPLETION

	SCREEN 1	SCREEN 2
LINE 1	XX	XX
LINE 2	XX	XX
LINE 3	XX	XX

MESSAGE AND LOCATION TO BE APPROVED BY THE SOUTH DISTRICT SAFETY OFFICER

SIGN$_1$

SOUTH INLET
DAY AREA
AND CAMPING
CLOSED

7"
8"D
7"
8"D
7"
8"D
6"
8"D
7"

5'-6"

7'-6"

SIGN$_2$

USE
NORTH INLET
DAY AREA
FOR PARKING

7"
8"D
7"
8"D
7"
8"D
6"
8"D
7"

5'-6"

7'-6"

DELAWARE SEASHORE STATE PARK
SOUTH INLET
CAMPGROUND
3 - PT HOOK CABINS
USE FACILITIES
GUARDED BEACH
INLET FISHING
CONCESSION
CLOSED

8'-0"

13'-0"

Centered and Rotated at 25

CLOSED

9"
12"E 2'-6"
9"

8'-0"

DELAWARE SEASHORE STATE PARK
INDIAN RIVER MARINA
PARK OFFICE - COTTAGES - HEAD BOAT
CHARTER BOATS - SEAFOOD MARKET
BAIT AND TACKLE SHOP
CAMPGROUND

8'-0"

13'-0"

18"

10'-0"

Brown overlay

THE "CLOSED" OR "BROWN OVERLAY" SHALL BE ADDED TO EACH EXISTING SIGN(S) AS SHOWN AND SHALL REMAIN IN PLACE UNTIL THE RESPECTIVE PHASE IS COMPLETED.

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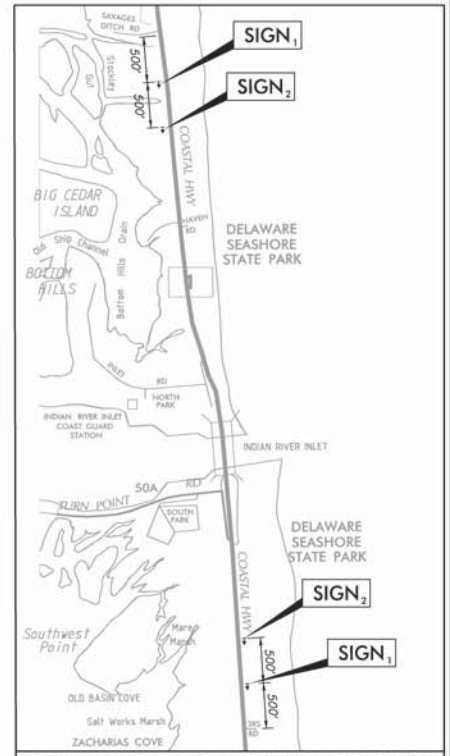
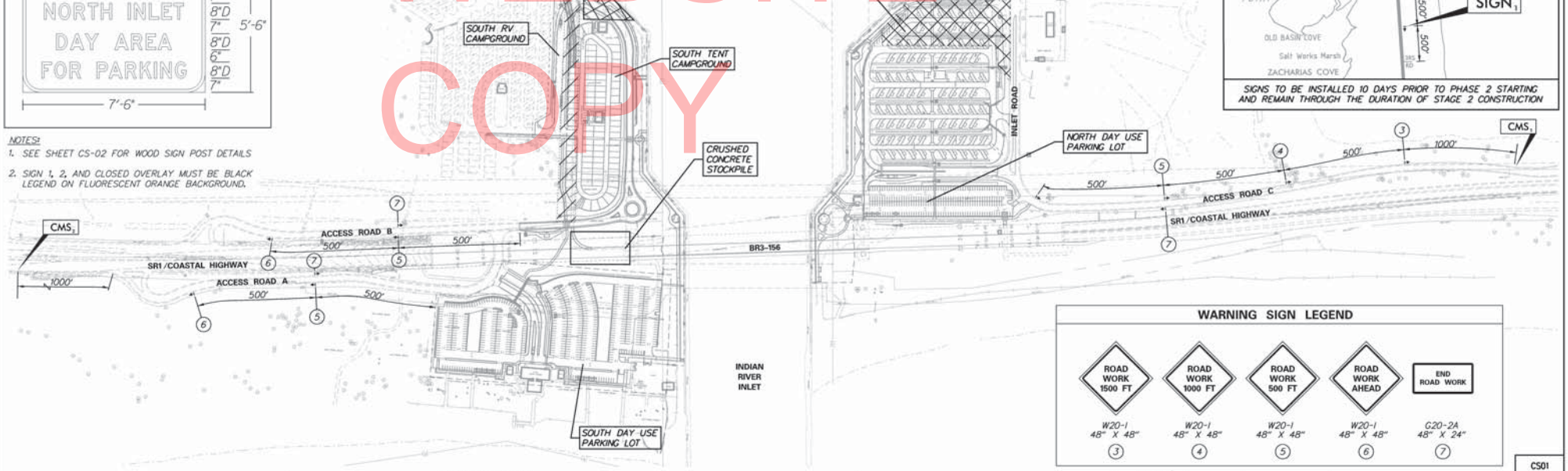


SIGNS TO BE INSTALLED 10 DAYS PRIOR TO PHASE 2 STARTING AND REMAIN THROUGH THE DURATION OF STAGE 2 CONSTRUCTION

NOTES:

1. SEE SHEET CS-02 FOR WOOD SIGN POST DETAILS
2. SIGN 1, 2, AND CLOSED OVERLAY MUST BE BLACK LEGEND ON FLUORESCENT ORANGE BACKGROUND.



WARNING SIGN LEGEND

ROAD WORK 1500 FT	ROAD WORK 1000 FT	ROAD WORK 500 FT	ROAD WORK AHEAD	END ROAD WORK
W20-1 48" X 48"	W20-1 48" X 48"	W20-1 48" X 48"	W20-1 48" X 48"	G20-2A 48" X 24"
3	4	5	6	7

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

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL- ADVANCE WARNING SIGN PLAN

CS01 | SHEET NO. 86 | TOTAL SHTS. 282

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TRAFFIC CONTROL- GENERAL NOTES

1. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND LANE SHIFTS SHALL CONFORM TO TYPICAL APPLICATION 10 AND 17B OF THE DELAWARE MUTCD. TYPICAL APPLICATION 17B SHALL BE UTILIZED FOR PERMANENT STRIPING ACTIVITIES.
2. GRADING AND MAINTAINING BASE COURSE THAT IS BEING USED AS A TRAVELWAY, DRIVEWAY, ACCESS RAMP, ETC. SHALL BE INCIDENTAL TO ITEM 743000 - MAINTENANCE OF TRAFFIC. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE PAY ITEM. NO PAYMENT SHALL BE MADE FOR TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A PERMANENT ROADWAY AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM. CONSTRUCTION OF A PLANNED RUNAROUND OR DETOUR WOULD BE ELIGIBLE FOR PAYMENT AS SPECIFIED IN THE CONTRACT.
3. ACCEPTABLE MATERIALS FOR TEMPORARY PEDESTRIAN PATHS SHALL INCLUDE CONCRETE, HOT-MIX, COMPACTED MILLINGS OR PLYWOOD WALKWAY STRUCTURE. PLYWOOD WALKWAY STRUCTURES SHALL ALSO INCLUDE DETECTABLE EDGING AND RAILINGS IN ACCORDANCE WITH ADA GUIDELINES AND THE DELAWARE MUTCD. TEMPORARY PEDESTRIAN PATHS SHALL BE INCIDENTAL TO ITEM 743000 UNLESS OTHERWISE SPECIFIED IN THE PLANS. GRADED AGGREGATE BASE COURSE, CHOKED WITH 2" OF STONE DUST.
4. DELDOT TRAFFIC RESERVES THE RIGHT TO MODIFY THE TRAFFIC CONTROL AS FIELD CONDITIONS DICTATE.

TRAFFIC CONTROL- PROJECT NOTES

1. THE CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE ACCESS DURING EACH CONSTRUCTION STAGE.
2. ROADWAY AND SHOULDER WORK SHALL BE PERFORMED IN A MANNER SUCH THAT POSITIVE DRAINAGE OF THE ROADWAY SURFACE IS MAINTAINED THROUGHOUT CONSTRUCTION.
3. ALL EXISTING PUBLIC ROADWAY LIGHTING WITHIN THE PROJECT LIMITS NOT DIRECTLY IMPACTED BY CONSTRUCTION SHALL REMAIN OPERATIONAL AT ALL TIMES THROUGHOUT THE CONSTRUCTION.
4. THE CONTRACTOR SHALL FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN (CMS) (743004) TO NOTIFY THE PUBLIC IN ADVANCE OF CONSTRUCTION ACTIVITIES WITHIN THE DELAWARE SEASHORE STATE PARK AT INDIAN RIVER. THE CMS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE ADVANCED WARNING SIGN PLAN 10 DAYS PRIOR TO THE START OF ON-SITE CONSTRUCTION AND 5 DAYS FOLLOWING CONSTRUCTION COMPLETION.
5. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH DNREC'S WATERSHED STEWARDSHIP IN ORDER TO MAINTAIN ACCESS TO THE SAND BY PASS FACILITIES. ACCESS SHALL BE PROVIDED THROUGH THE SOUTH DAY USE PARKING LOT.
6. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND DNREC PARKS REPRESENTATIVES FOR THE PLAYGROUND CONSTRUCTION. DNREC PARKS WILL PROVIDE AND INSTALL THE PLAYGROUND EQUIPMENT AND SURFACE TREATMENT PRIOR TO THE CONTRACTOR COMPLETING THE PLAYGROUND PERIMETER FENCE.
7. ANY EXISTING PERMANENT SIGNS THAT CONFLICT WITH CONSTRUCTION WARNING SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. COST SHALL BE INCLUDED IN 743000, MAINTENANCE OF TRAFFIC.
8. THE CONTRACTOR SHALL TAKE REASONABLE CARE WHILE REMOVING THE EXISTING CHAIN LINK FENCE TO NOT DAMAGE THE CHAIN LINK FABRIC. THE CONTRACTOR SHALL STOCKPILE THE CHAIN LINK FENCE ON SITE FOR RELOCATION DURING THE VARIOUS PHASES OF CONSTRUCTION. THE COST OF REMOVAL SHALL BE PAID UNDER ITEM 211000, REMOVAL OF STRUCTURES AND OBSTRUCTIONS. STOCKPILING THE FENCE SHALL BE INCIDENTAL TO 211000. THE COST TO RELOCATE THE CHAIN LINK FENCE SHALL BE PAID FOR UNDER ITEM 727519, RELOCATE CHAIN LINK FENCE.

SUMMARY OF PARK ACCESS RESTRICTIONS

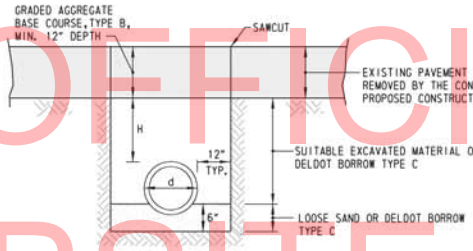
1. ANY DEVIATIONS TO THE PARK ACCESS RESTRICTIONS OR SEQUENCE OF CONSTRUCTION SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND DNREC PARKS.
2. CALENDAR RESTRICTION THE SOUTH DAY USE PARKING LOT AND SOUTH RV CAMPGROUND SHALL BE CLOSED FROM OCTOBER 15, 2013 THROUGH MAY 9, 2014. THE CONTRACTOR SHALL COMPLETE ALL CONSTRUCTION ACTIVITIES SHOWN IN PHASE 2 DURING THIS CALENDAR RESTRICTION. THE SOUTH TENT CAMPGROUND IS NOT SUBJECT TO THE CALENDAR RESTRICTION.
3. ACCESS MUST BE MAINTAINED THROUGH THE SOUTH CAMPGROUND FOR ROAD 50A TRAFFIC AT ALL TIMES.
4. PARKING AREAS ON BOTH THE NORTH AND SOUTH SIDES OF THE INLET MUST BE OPEN TO THE PUBLIC AT ALL TIMES. THE SEQUENCE OF CONSTRUCTION INCLUDES PROVISIONS FOR THE FOLLOWING:

   NORTH SIDE OF INLET- EXISTING PHASE 1 PARKING LOT SHALL REMAIN ACCESSIBLE AND OPEN TO THE PUBLIC UNTIL THE NORTH DAY USE PARKING LOT IS COMPLETE AND OPEN TO THE PUBLIC.

   SOUTH SIDE OF INLET- PRIOR TO OCTOBER 15, 2013, THE PINE TREE PARKING LOT AND SOUTH DAY USE PARKING LOT SHALL REMAIN ACCESSIBLE AND OPEN TO THE PUBLIC. ON OCTOBER 15, 2013, PUBLIC PARKING SHALL BE LOCATED ON THE PORTION OF RELOCATED 50A CONSTRUCTED IN PHASE 1 AND SHALL REMAIN ACCESSIBLE AND OPEN TO THE PUBLIC UNTIL THE SOUTH DAY USE LOT IS ACCESSIBLE AND OPEN TO THE PUBLIC.
5. THE CONTRACTOR SHALL COORDINATE WITH THE CENTER FOR INLAND BAYS (CIB) AND THE USCG OFFICER OF THE DAY A MINIMUM 1 MONTH PRIOR TO BEGINNING CONSTRUCTION ACTIVITY AND MONTHLY AFTER CONSTRUCTION COMMENCES ON THE USCG ENTRANCE AND THE CIB PARKING LOT. ONCE CONSTRUCTION ACTIVITY BEGINS IN THIS AREA, WORK MUST BE CONTINUOUS UNTIL COMPLETE. ACCESS TO THE USCG FACILITY MUST BE MAINTAINED AT ALL TIMES.

SEDIMENT & STORMWATER MANAGEMENT NOTES

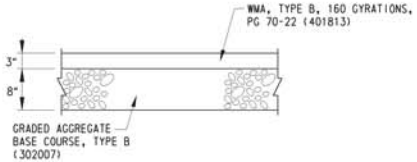
1. DUST CONTROL. DUST IS TO BE CONTROLLED EXCLUSIVELY THROUGH THE USE OF WATER. COSTS ASSOCIATED WITH THE FURNISHING AND APPLICATION OF WATER FOR DUST CONTROL SHALL BE INCIDENTAL TO ALL CONTRACT BID ITEMS.
2. CONSTRUCTION ENTRANCES. IT IS INTENDED THAT MUD TRACKING BE ELIMINATED ON ALL ROADWAYS ADJOINING THE PROJECT. EACH POINT OF INGRESS AND EGRESS FROM THE PROJECT SHALL HAVE INSTALLED A STABILIZED CONSTRUCTION ENTRANCE (SCE), ITEM 268000. ALL PAVED SURFACES ADJOINING THE PROJECT SHALL BE LEFT IN BROOM CLEAN CONDITION AT THE END OF EACH WORKDAY. BROOMED MATERIAL SHALL BE REMOVED AND PROPERLY DISPOSED OF. STABILIZED CONSTRUCTION ENTRANCES SHALL BE REDRESSED WITH TWO (2) INCHES OF CLEAN DE NO. 3 STONE WHEN THE VOIDS BECOME CLOGGED OR AS DIRECTED BY THE ENGINEER.
3. SOIL STOCKPILES. STOCKPILES OF SOIL SHALL BE STABILIZED WITH ITEM 734508, TEMPORARY SEED MIX.



PIPE TRENCH NOTES:

1. EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 208.
2. THE ENGINEER SHALL DETERMINE WHAT PORTION, IF ANY, OF THE EXCAVATED MATERIAL IS SUITABLE FOR BORROW TYPE C OR TYPE F.
3. COMPACTION WITHIN EXISTING OR PROPOSED PAVEMENT AND SHOULDER AREAS SHALL MEET OR EXCEED 95%. ALL OTHER AREAS SHALL BE 90% OR MORE.
4. ALL DIMENSIONS ARE TO THE OUTSIDE WALL OF PIPES.
5. WHERE A STEEL PLATE IS USED WITH A PIPE TRENCH DETAIL, THE LIMITS OF WARM-MIX, TYPE C, PATCHING SHALL BE MODIFIED AS SHOWN ON THE STEEL PLATE DETAIL.
6. FOR INSTALLATION OF LIGHTING OR ELECTRICAL CONDUIT, INSTALL MARKING TAPE A MINIMUM OF 6" BENEATH FINISHED GRADE. PAYMENT TO BE INCIDENTAL TO THE LIGHTING CONDUIT ITEM BEING INSTALLED.

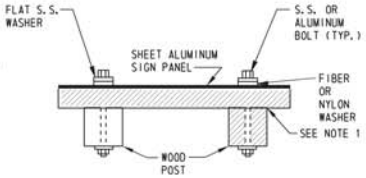
PIPE/CONDUIT TRENCH DETAIL
N. T. S.

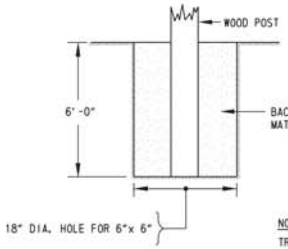


TEMPORARY PAVEMENT SECTION

NOTES:

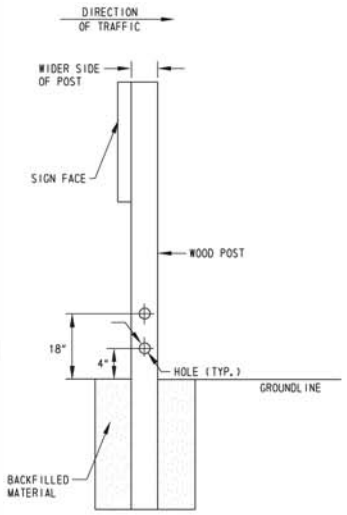
1. ALL SHEET ALUMINUM SIGNS 5' WIDE AND LARGER SHALL BE BRACED WITH TWO HORIZONTAL 2"X4" TREATED WOOD OR EQUAL, ATTACHED TO THE SUPPORTS. THE BOLT LENGTHS SHALL BE COORDINATED.
2. ALL BOLTS SHALL BE ⅜" F593 (18-8 TYPE 303-304) STAINLESS STEEL OR ANODIZED ALUMINUM HEX HEAD BOLT WITH WASHERS AND NUTS SPACED AT 12" MAXIMUM.
3. S.S. 3½" MIN. LAG BOLTS MAY BE SUBSTITUTED FOR HEX HEAD BOLTS. LAG BOLTS MUST BE STAGGERED AT 9" INTERVALS.





NOTE:
TREATED WOODEN POST SHALL BE PLACED IN PRE-DUG HOLE IN GROUND, BACKFILLED USING SUITABLE MATERIAL, AND TAMPED THOROUGHLY TO PROVIDE A RIGID SUB-SURFACE CONDITION AROUND THE POST.

TYPICAL FOUNDATION FOR WOOD SUPPORTS



WOOD POST MODIFICATIONS FOR BREAKAWAY FEATURE

POST SIZE	HOLE DIA. (IN.)
6"x 6"	2

NOTE:

1. ALL WOOD POSTS SHALL BE MADE BREAKAWAY BY DRILLING TWO HOLES CENTERED AT 4" AND 18" ABOVE THE GROUNDLINE AND PERPENDICULAR TO THE ROADWAY.
2. ALL SUPPORTS WITHIN THE CLEAR ZONE SHALL BE BREAKAWAY UNLESS PROTECTED.

WOOD POST MODIFICATIONS FOR BREAKAWAY FEATURE

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL NOTES	CS02
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 87
					CHECKED BY: RK&K		TOTAL SHTS. 282

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SEQUENCE OF CONSTRUCTION

CONSTRUCTION PHASE 1

NOTE: THE LIMITS OF WORK SHOWN FOR RELOCATED ROAD 50A INCLUDING ROADWAY PAVING, TEMPORARY PAVEMENT FOR FISHERMAN'S PARKING TURNAROUND AREA AND STABILIZATION MUST BE COMPLETE PRIOR TO BEGINNING PHASE 2.

1. INSTALL PERMANENT ADVANCED WARNING SIGNS AS SHOWN ON THE ADVANCED WARNING SIGNS PLAN.
2. MAINTAIN EXISTING TRAFFIC PATTERNS ON SR 1, INLET ROAD, ROAD 50A, ACCESS ROAD A, ACCESS ROAD B. MAINTAIN ACCESS TO THE EXISTING PHASE 1 NORTH PARKING LOT, SOUTH DAY USE PARKING LOT, PINE TREE PARKING LOT AND SOUTH RV CAMPGROUND. MAINTAIN EXISTING CHAIN LINK FENCE AS SHOWN FOR PEDESTRIAN TRAFFIC.
3. INSTALL PERIMETER TRAFFIC CONTROL DEVICES REQUIRED FOR PHASE 1 CONSTRUCTION INCLUDING TYPE III BARRICADES, SIGNS, AND RELOCATING FENCING AS SHOWN FOR PEDESTRIAN TRAFFIC.
4. CLEAR AND GRUB AS REQUIRED TO INSTALL PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES.
5. INSTALL PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN INCLUDING STABILIZED CONSTRUCTION ENTRANCES AND SILT FENCES.
6. CLEAR AND GRUB PHASE 1 CONSTRUCTION AREA.
7. ESTABLISH PHASE 1 SOIL/ AGGREGATE STOCKPILE AREA AS SHOWN. THE LIMITS OF THE PHASE 1 SOIL STOCKPILE AREA ARE TO BE A MINIMUM OF 175' FROM THE EXISTING BULKHEAD TO MAINTAIN THE INTEGRITY OF THE EXISTING BULKHEAD TIE-BACK SYSTEM.
8. ROUGH GRADE THE FOLLOWING:
   NORTH PARK - ROAD C, NORTH DAY USE PARKING LOT ADJACENT TO ROAD C AND NORTH RV CAMPGROUND BETWEEN ROAD C AND THE SOIL STOCKPILE AREA. WITHIN THE STOCKPILE AREA, KEEP THE SOIL SEPARATED FROM THE AGGREGATE.
   SOUTH PARK ROAD B (LIMITS SHOWN), RELOCATED ROAD 50A (LIMITS SHOWN)
9. BEGIN BUILDING CONSTRUCTION (REFER TO ARCHITECTURAL PLANS FOR BUILDING SEQUENCING):
   NORTH PARK - BUILDING 2 (ADMINISTRATION CONTACT STATION) AND BUILDING 5 (BATH HOUSE)
   SOUTH PARK - BUILDING 8, 9 (REFURBISH EXISTING BATH HOUSES)
10. INSTALL UTILITY MAINS AND SERVICES AS SHOWN. CONTRACTOR TO COORDINATE UTILITY SERVICES WITH UTILITY OWNER:
    NORTH PARK, ELECTRIC - INSTALL CONDUIT TO 2 NEW TRANSFORMERS, PROVIDE SERVICE TO BUILDING 2 AND BUILDING 5. PROVIDE ELECTRIC STUBS FOR FUTURE EXTENSION AS SHOWN.

    NORTH PARK, TELECOM - INSTALL TELECOM CONDUIT TO PROVIDE SERVICE TO BUILDING 2.

    NORTH PARK, WATER - INSTALL WATER MAIN AND SERVICE AS SHOWN TO PROVIDE SERVICE TO BUILDING 5 AND STUB FOR THE OUTDOOR SHOWER FACILITY. THE EXISTING PHASE 1 PARKING LOT MUST BE MAINTAINED WITH ACCESS AT ALL TIMES THROUGHOUT THE PHASE 1 WATER LINE CONSTRUCTION, THEREFORE, DURING THE WATER LINE CONSTRUCTION ACROSS THE EXISTING PARKING LOT EXIT, INSTALL THE TYPE III BARRICADES AND ROAD CLOSED SIGN AS SHOWN. AS SOON AS THE WATER WORK IS COMPLETED, CONTRACTOR SHALL REMOVE THE TYPE III BARRICADES.

    NORTH PARK, SANITARY - INSTALL CONNECTION TO EXISTING MANHOLE FOR BUILDING 5.

    SOUTH PARK, ELECTRIC - INSTALL MAIN TO TRANSFORMER ALONG EXISTING ROAD 50A. UTILIZE DELAWARE MUTCD TA-10 TO INSTALL THE ELECTRIC CONDUIT CROSSING IN HALVES TO MAINTAIN EXISTING ROAD 50A TRAFFIC. ELECTRICAL CONDUIT FOR BUILDING 1W SHALL BE STUBBED AT THE SOUTH SIDE OF EXISTING ROAD 50A FOR FUTURE EXTENSION.

    SOUTH PARK, WATER - INSTALL FIRE HYDRANT AND CONNECTION TO MAIN AT RELOCATED ROAD 50A ROUNDABOUT. INSTALL STUB FOR FUTURE EXTENSION AT BUILDINGS 8 AND 9.

    SOUTH PARK, SANITARY - INSTALL CONNECTION TO EXISTING MANHOLE FOR BUILDINGS 8 AND 9.

    SOUTH PARK, PROPANE - INSTALL STUB FOR FUTURE EXTENSION AT BUILDINGS 8 AND 9. SEE ARCHITECTS/MEP PLANS AND SUBURBAN PROPANE.
11. FINE GRADE PHASE 1 INCLUDING PAVEMENT BOXES, SWALES, AND INSTALL STORM DRAINAGE.
12. INSTALL PERMANENT CURBING, ROADWAY AND PARKING LOT PAVING, AND PEDESTRIAN WALKWAYS AS SHOWN. ROADWAY PAVEMENT FOR ROAD 50A INCLUDES BASE COURSE ONLY, DOES NOT INCLUDE TYPE C SURFACE COURSE AND INCLUDES THE TEMPORARY PAVEMENT FOR FISHERMAN'S PARKING STONE TURNAROUND AREA SHOWN.
13. INSTALL A PORTABLE PCC BARRIER ALONG RELOCATED ROAD 50A, AS SHOWN.
14. INSTALL TEMPORARY PAVEMENT CONNECTION BETWEEN EXISTING ACCESS ROAD B AND RELOCATED ROAD 50A.
15. THE GRADING ALONG RELOCATED ROAD 50A, SIDEWALK CONNECTIONS 1 AND 2 IN SOUTH PARK, SIDEWALK CONNECTIONS 3 AND 4 IN NORTH PARK, SHALL BE THE LAST ORDER OF WORK PRIOR TO BEGINNING PHASE 2. THE CONTRACTOR SHALL INSTALL CONSTRUCTION SAFETY FENCE TO SECURE THE CONSTRUCTION ACTIVITY, REMOVE THE EXISTING CHAIN LINK FENCE, COMPLETE THE GRADING AND SIDEWALK CONNECTIONS, AND STABILIZE THE AFFECTED AREA.
16. STABILIZE DISTURBED AREA WITH STABILIZATION MATTING: INSTALL FILTER STRIPS AND SURFACE TREATMENT. AFTER PHASE 1 INSPECTION AND ACCEPTANCE, REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES NOT REQUIRED FOR FUTURE CONSTRUCTION PHASES.
17. PHASE 1A INLAND BAYS PARKING LOT ONCE THE CONTRACTOR BEGINS WORK ON THIS AREA, WORK MUST BE CONTINUOUS UNTIL COMPLETE. THE SCHEDULE FOR PHASE 1A NEEDS TO BE COORDINATED WITH THE CENTER FOR INLAND BAYS (CIB) ON-SITE REPRESENTATIVES AND THE USCG OFFICER OF THE DAY A MINIMUM OF 1 MONTH PRIOR TO BEGINNING CONSTRUCTION AND MONTHLY UPDATES MUST BE PROVIDED TO THE CIB AND USCG MONTHLY AFTER CONSTRUCTION ACTIVITY COMMENCES. ACCESS MUST BE MAINTAINED TO THE USCG STATION AT ALL TIMES. TO BEGIN CONSTRUCTION, THE CONTRACTOR SHALL CLEAR AND GRUB AS REQUIRED TO INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS, REMOVE EXISTING PAVEMENT, INSTALL LIGHT POLE FOUNDATION AND STUB ELECTRICAL CONDUIT. INSTALL CURB AND GUTTER AND COORDINATE PERMANENT ENTRANCE PAVEMENT CONSTRUCTION WITH THE USCG. INSTALL POROUS PAVEMENT FOR THE CIB PARKING LOT, STABILIZE DISTURBED AREAS AND REMOVE EROSION AND SEDIMENT CONTROL DEVICES.

CONSTRUCTION PHASES 2A, 2B, 2C & 2 - ADD ALT.

NOTE: PHASE 2A, 2B AND 2C CALENDAR RESTRICTION - OCTOBER 15, 2013 TO MAY 12, 2014. ALL CONSTRUCTION ACTIVITIES SHOWN ON THE PHASE 2 PLANS AND/OR INCLUDED IN THESE NOTES MUST BE COMPLETED IN THESE NOTES MUST BE COMPLETED WITHIN THE ALLOTTED CALENDAR RESTRICTION. PHASE 1 AND PHASE 1A MAY EXTEND INTO PHASE 2 CONSTRUCTION WITH THE EXCEPTION OF THE LIMITS OF RELOCATED ROAD 50A WHICH MUST BE COMPLETED PRIOR TO OCTOBER 15, 2013. 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.

CONSTRUCTION PHASES 2A, 2B, 2C & 2 - ADD ALT. CONT.

1. MAINTAIN EXISTING TRAFFIC PATTERNS ON SR 1, INLET ROAD, ROAD 50A, ACCESS ROAD A, ACCESS ROAD B. MAINTAIN ACCESS TO THE EXISTING PHASE 1 NORTH PARKING LOT.
2. INSTALL TRAFFIC CONTROL DEVICES REQUIRED FOR PHASE 2 CONSTRUCTION INCLUDING TYPE III BARRICADES, SIGNING IN ORDER TO CLOSE ACCESS TO SOUTH DAY USE PARKING LOT, PINE TREE PARKING LOT AND SOUTH RV CAMPGROUND. OPEN RELOCATED ROAD 50A CONSTRUCTED AS PART OF PHASE 1 FOR FISHERMAN PARKING DURING PHASE 2A AND 2B CONSTRUCTION. INSTALL/ MAINTAIN/RELOCATE FENCING TO PROVIDE PEDESTRIAN PATHS.
3. MAINTAIN EROSION AND SEDIMENT CONTROL DEVICES FROM PHASE 1 FOR AREAS REMAINING UNDER CONSTRUCTION.
4. CLEAR AND GRUB AS REQUIRED TO INSTALL PERIMETER EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN IN PHASE 2A & 2 - ADD ALTERNATE CONSTRUCTION.
5. INSTALL PHASE 2A & 2 - ADD ALTERNATE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN INCLUDING STABILIZED CONSTRUCTION ENTRANCES AND SILT FENCES.
6. CLEAR AND GRUB PHASE 2A & 2 - ADD ALTERNATE CONSTRUCTION AREA.
7. ROUGH GRADE THE FOLLOWING:
   SOUTH PARK - SOUTH DAY USE PARKING LOT, SOUTH RV CAMPGROUND IMPROVEMENTS, TEMPORARY PAVEMENT FOR TEMPORARY RELOCATED ROAD 50A AND SOUTH PROMENADE.
8. CONSTRUCT TEMPORARY PAVEMENT REQUIRED FOR TEMPORARY ROAD 50A THROUGH THE SOUTH RV CAMPGROUND, CLOSE THE EASTBOUND LANE OF ROAD 50A DURING THE TEMPORARY PAVEMENT TIE-IN CONSTRUCTION TO EXISTING PAVEMENT USING TA-10 AS SHOWN, INSTALL TEMPORARY STRIPING AND TEMPORARY TRAFFIC CONTROL DEVICES TO SHIFT ROAD 50A TRAFFIC ONTO TEMPORARY ROAD 50A.
9. BEGIN BUILDING CONSTRUCTION (REFER TO ARCHITECTURAL PLANS FOR BUILDING SEQUENCING):
   SOUTH PARK - BUILDING 1W (CAMPGROUND CONTACT STATION), BUILDING 1E (SOUTH DAY USE CONTACT STATION) BUILDING CONSTRUCTION MUST BE COMPLETE AND OBTAIN CERTIFICATE OF OCCUPANCY DURING PHASE 2A CALENDAR RESTRICTION.
10. INSTALL UTILITY MAINS AND SERVICES AS SHOWN:
    SOUTH PARK, ELECTRIC - CONTINUE ELECTRIC SERVICE FROM THE STUB CONSTRUCTED IN PHASE 1 CONSTRUCTED TO BUILDING 1W. INSTALL ELECTRIC SERVICE FOR BUILDING 1E FROM THE EXISTING DELMARVA POWER METER AT THE BATH HOUSE. INSTALL ELECTRIC OUTLETS IN SOUTH DAY USE PARKING LOT. INSTALL ELECTRIC SERVICES, LIGHTING, AND OUTLETS FOR SOUTH PROMENADE.

    SOUTH PARK, TELECOM - INSTALL CONDUIT FROM THE EXISTING PEDESTAL TO BUILDING 1E. COORDINATION IS REQUIRED WITH VERIZON TO CONVERT THE EXISTING PEDESTAL TO A FLUSH HANDHOLE. INSTALL TELECOM SERVICE TO BUILDING 1W.

    SOUTH PARK, WATER - INSTALL NEW HOSE STATION WITHIN THE SOUTH DAY USE PARKING LOT AND SOUTH TENT CAMPGROUND.

    SOUTH PARK, RV CAMPGROUND EXPANSION - INSTALL WATER, ELECTRIC AND SANITARY SERVICES WITHIN THE SOUTH RV CAMPGROUND AS SHOWN.

    SOUTH PARK, PROPANE - INSTALL THE PROPOSED PROPANE TANKS AND CONCRETE PAD AND PROPOSED MAINS TO BUILDINGS 8 AND 9 PER THE ARCHITECTS/MEP PLANS AND SURBURBAN PROPANE.
11. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON PHASE 2B PLANS.
12. ROUGH GRADE RELOCATED ROAD 50A AREA SHOWN ON PHASE 2B PLANS.
13. FINE GRADE PHASE 2A, 2B, AND PHASE 2 - ADD ALTERNATE INCLUDING PAVEMENT BOXES, PROMENADE, SWALES AND INSTALL STORM DRAINAGE.
14. INSTALL PERMANENT CURBING, ROADWAY AND PARKING LOT PAVING, PEDESTRIAN WALKWAYS AND GATE AS SHOWN. ROADWAY PAVEMENT FOR ROAD 50A INCLUDES BASE COURSE ONLY, DOES NOT INCLUDE TYPE C SURFACE COURSE. SOUTH DAY USE PARKING LOT BASE COURSE SHALL UTILIZE EXISTING ON-SITE CRUSHED CONCRETE STOCKPILE.
15. UPON COMPLETION OF RELOCATED 50A PAVEMENT, REMOVE BARRIER AND INSTALL GUARDRAIL ALONG RELOCATED ROAD 50A USING TA-10.
16. STABILIZE DISTURBED AREA WITH STABILIZATION MATTING, INSTALL FILTER STRIPS, SURFACE TREATMENT AND LANDSCAPING.
17. SCHEDULE INSPECTION FOR PHASE 2A AND 2B WORK WEST OF SR 1 IN ORDER TO COMPLETE PHASE 2C WORK WITHIN THE CALENDAR RESTRICTION.
18. UTILIZE DELAWARE MUTCD TA-10 TO COMPLETE THE RELOCATED ROAD 50A WESTERN CONNECTION TO EXISTING ROAD 50A SHOWN IN PHASE 2B. ALSO UTILIZE DELAWARE MUTCD TA-10 TO COMPLETE THE EASTERN CONNECTION AND INSTALL THE BUS STOP PULL OFF AND PAD.
19. REMOVE TRAFFIC CONTROL DEVICES DETOURING ROAD 50 A TRAFFIC AND OPEN RELOCATED ROAD 50A TO TRAFFIC AS SHOWN ON PHASE 2C PLANS.
20. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON PHASE 2C PLANS.
21. CLEAR AND GRUB AND ROUGH GRADE PARKING LOT ALONG RELOCATED ROAD 50A, SOUTH TENT CAMPGROUND, SOUTH RV CAMPGROUND ENTRANCE AND EXPANSION AREA SHOWN ON PHASE 2C PLANS.
22. COMPLETE UTILITY SERVICES IN SOUTH RV CAMPGROUND EXPANSION, SOUTH TENT CAMPGROUND, AND INSTALL ELECTRIC SERVICE. EXTEND LIGHTING CONDUIT FOR SOUTH FISHERMAN'S PARKING LOT AND LIGHTING ALONG SOUTH CAMPGROUND ENTRANCE.
23. FINE GRADE PHASE 2C INCLUDING PAVEMENT BOXES AND SWALES, AND INSTALL STORM DRAINAGE.
24. COMPLETE PERMANENT CURBING, ROADWAY AND PARKING LOT PAVING, PEDESTRIAN WALKWAYS, SOUTH PROMENADE AS SHOWN ON PLANS FOR HASES 2A, 2B, 2C, & 2 - ADD ALTERNATE.
25. SOUTH PARK, RV CAMPGROUND EXPANSION - INSTALL WATER, ELECTRIC AND SANITARY SERVICES WITHIN THE SOUTH RV CAMPGROUND AS SHOWN. STABILIZE DISTURBED AREA WITH STABILIZATION MATTING, INSTALL FILTER STRIPS, SURFACE TREATMENT AND LANDSCAPING.
26. AFTER PHASE 2 INSPECTION AND ACCEPTANCE, REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES NOT REQUIRED FOR FUTURE CONSTRUCTION PHASES.
27. OPEN SOUTH DAY USE PARKING LOT, SOUTH TENT CAMPGROUND, SOUTH PROMENADE, SOUTH RV CAMPGROUND AND EXPANSION, BUILDING 1E AND BUILDING 1W.

CONSTRUCTION PHASE 3A

NOTE: PHASE 3 INCLUDES CONSTRUCTION ACTIVITY ON BOTH THE NORTH AND SOUTH SIDES OF THE INLET. THE PHASE 3 CONSTRUCTION ACTIVITY WITHIN SOUTH PARK MUST NOT BEGIN UNTIL THE COMPLETION AND ACCEPTANCE OF THE PHASE 2 CONSTRUCTION AND OPENING OF TRAFFIC TO THE CONFIGURATION SHOWN ON PHASE 3. THE PHASE 3 CONSTRUCTION ACTIVITY WITHIN NORTH PARK CAN BEGIN UPON COMPLETION, ACCEPTANCE AND OPENING THE NORTH DAY USE PARKING LOT, ACCESS ROAD C, AND BUILDING 2. 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.

1. MAINTAIN TRAFFIC PATTERNS ON SR 1, INLET ROAD, ROAD 50A, ACCESS ROAD A, ACCESS ROAD B, RELOCATED 50A FROM PHASE 2. OPEN ACCESS ROAD C AND THE NORTH DAY USE PARKING LOT.
2. INSTALL TRAFFIC CONTROL DEVICES REQUIRED FOR PHASE 3 CONSTRUCTION INCLUDING TYPE III BARRICADES, SIGNING AND RELOCATING/MAINTAINING/INSTALLING CHAIN LINK FENCING IN ORDER TO CLOSE ACCESS TO PHASE 1 NORTH PARKING LOT AND SECURE THE PHASE 3 CONSTRUCTION AREA.
3. MAINTAIN EROSION AND SEDIMENT CONTROL DEVICES FROM PHASE 1 AND 2 FOR AREAS REMAINING UNDER CONSTRUCTION.
4. CLEAR AND GRUB AS REQUIRED TO INSTALL PERIMETER EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN IN PHASE 3 CONSTRUCTION.
5. INSTALL PHASE 3 EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN INCLUDING STABILIZED CONSTRUCTION ENTRANCES AND SILT FENCES.
6. CLEAR AND GRUB PHASE 3 CONSTRUCTION AREA.
7. ROUGH GRADE THE FOLLOWING:
   NORTH PARK - RV CAMPGROUND, PLAYGROUND, REMOVE EXISTING SOIL STOCKPILE AND UTILIZE STOCKPILE TO GRADE THE WEST PORTION OF THE RV CAMPGROUND.
8. BEGIN BUILDING 3 (LAUNDRY FACILITY) AND 4 (RV SHOWER FACILITY) CONSTRUCTION IN NORTH PARK, REFER TO ARCHITECTURAL PLANS FOR BUILDING SEQUENCING.
9. INSTALL UTILITY MAINS AND SERVICES AS SHOWN. CONTRACTOR TO COORDINATE UTILITY SERVICES WITH UTILITY OWNER.
   NORTH PARK, ELECTRIC - INSTALL ELECTRIC CONDUIT FROM TRANSFORMERS INSTALLED IN PHASE 1, EXISTING TRANSFORMER AND NEW TRANSFORMERS FOR SERVICES WITHIN CAMPGROUND INCLUDING BUILDINGS 3 AND 4, CAMPSITES AND LIGHTING

   NORTH PARK, WATER - INSTALL REMAINING WATER MAIN AND SERVICES INCLUDING FOR BUILDINGS 3 AND 4 AND RV PADS AS SHOWN. CONDUCT WATER TESTING AND INSPECTION.

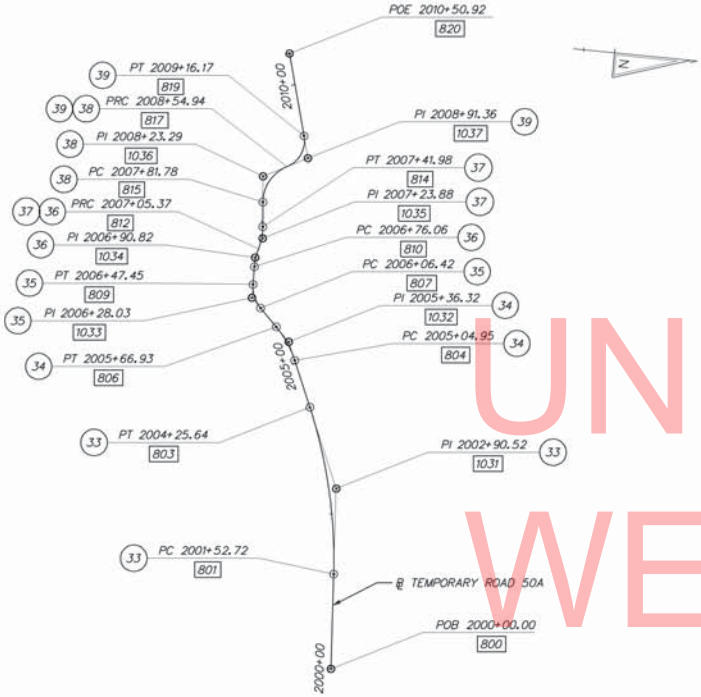
   NORTH PARK, SANITARY - INSTALL SERVICES FOR TWO (2) HOST CAMPSITES WITHIN CAMPGROUND, SERVICES FOR BUILDINGS 3 AND 4 AND SANITARY CLEANOUT.

   NORTH PARK, PROPANE - INSTALL THE PROPOSED PROPANE TANKS AND CONCRETE PAD AND PROPOSED MAIN TO BUILDINGS 3 AND 4 PER THE ARCHITECTS/MEP PLANS AND SUBURBAN PROPANE.
10. FINE GRADE INCLUDING PAVEMENT BOXES, SWALES AND STORM DRAINAGE.
11. INSTALL PERMANENT CURBING, PAVEMENT, FENCING AND PEDESTRIAN WALKWAYS WITHIN PHASE 3A. COORDINATE PLAYGROUND EQUIPMENT INSTALLATION WITH DNREC AND DELDOT CONSTRUCTION A MINIMUM OF 3 MONTHS PRIOR TO INSTALLING FENCING SURROUNDING PLAYGROUND.
12. INSTALL TYPE C SURFACE COURSE FOR RELOCATED ROAD 50A USING DELAWARE MUTCD TA-10 AND TA-17B FOR PERMANENT STRIPING.
13. STABILIZE DISTURBED AREA WITH STABILIZATION MATTING, INSTALL FILTER STRIPS AND SURFACE TREATMENT.
14. SCHEDULE INSPECTION OF PHASE 3A AND OBTAIN CERTIFICATE OF OCCUPANCY FOR BUILDINGS 3 AND 4.
15. AFTER INSPECTION AND ACCEPTANCE, REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES.
16. REMOVE ALL TRAFFIC CONTROL DEVICES.

CONSTRUCTION PHASE 3B

NOTE: PHASE 3B INCLUDES ADD ALTERNATES THAT MAY OR MAY NOT BE INCLUDED IN THIS CONTRACT. PHASE 3B SHALL OCCUR CONCURRENTLY WITH PHASE 3A.

1. MAINTAIN PHASE 3A TRAFFIC PATTERNS. INSTALL/MAINTAIN/RELOCATE FENCING AND TRAFFIC CONTROL DEVICES AS SHOWN TO SECURE CONSTRUCTION WORK AREA AND PROVIDE PEDESTRIAN PATHS.
2. MAINTAIN EROSION AND SEDIMENT CONTROL DEVICES FROM PREVIOUS PHASES AND INSTALL EROSION AND SEDIMENT CONTROL DEVICES REQUIRED FOR PHASE 3B INCLUDING STABILIZED CONSTRUCTION ENTRANCES AND SILT FENCES.
3. CLEAR AND GRUB AS REQUIRED.
4. ROUGH GRADE AREAS OF PHASE 3B TO BE CONSTRUCTED INCLUDING THE MSE WALLS.
5. INSTALL ELECTRICAL UTILITY SERVICES FOR PHASE 3B INCLUDING LIGHTING AND OUTLETS. INSTALL WATER MAIN TO OUTDOOR SHOWER FACILITY FROM PREVIOUSLY CONSTRUCTED STUB.
6. FINE GRADE INCLUDING PAVEMENT BOXES FOR PHASE 3B.
7. INSTALL PERMANENT PAVEMENT AND PEDESTRIAN WALKWAYS AND PARK AMENITIES.
8. STABILIZE DISTURBED AREA WITH STABILIZATION MATTING AND SURFACE TREATMENT.
9. AFTER INSPECTION AND ACCEPTANCE, REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES.



CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
800	2000+00.00	0	220867.0071	756490.7612
801	2001+52.72	0	220856.3567	756338.4128
1031	2002+90.52	0	220846.7469	756200.9495
802	--	0	220058.3045	756394.2032
803	2004+25.64	0	220791.6998	756074.6234
804	2005+04.95	0	220760.0183	756001.9184
1032	2005+36.32	0	220747.4850	755973.1560
805	--	0	220611.5058	756066.6333
806	2005+66.93	0	220725.1199	755951.1524
807	2006+06.42	0	220696.9659	755923.4536
1033	2006+28.03	0	220681.5661	755908.3027
808	--	0	220734.1360	755885.6728
809	2006+47.45	0	220681.1460	755886.7034
810	2006+76.06	0	220680.5897	755858.0996
1034	2006+90.82	0	220680.3027	755843.3400
811	--	0	220780.5708	755856.1551
812	2007+05.37	0	220684.2927	755829.1270
1035	2007+23.88	0	220689.2952	755811.3072
813	--	0	220588.0145	755802.0988
814	2007+41.98	0	220687.5885	755792.8774
815	2007+81.78	0	220683.9185	755753.2484
1036	2008+23.29	0	220680.0899	755711.9070
816	--	0	220745.6543	755747.5311
817	2008+54.94	0	220716.8585	755692.6239
1037	2008+91.36	0	220749.1062	755675.7118
818	--	0	220695.9584	755652.7719
819	2009+16.17	0	220739.2937	755640.6455
820	2010+50.92	0	220702.9824	755510.8819

TEMPORARY ROAD 50A

CIRCULAR CURVE NO. 33

ELEMENT: CIRCULAR	STATION	NORTHING	EASTING
PC (801)	2001+52.72	220856.3567	756338.4128
PI (1031)	2002+90.52	220846.7469	756200.9495
CC (802)		220058.3045	756394.2032
PT (803)	2004+25.64	220791.6998	756074.6234

RADIUS: 800.0000
DELTA: 19°32'47.0642" LEFT
DEGREE OF CURVATURE (ARC): 7°09'43.1008"
LENGTH: 272.9193
TANGENT: 137.7987
CHORD: 271.5978
MIDDLE ORDINATE: 11.6101
EXTERNAL: 11.7811
TANGENT DIRECTION: S 86°00'03.8132" W
RADIAL DIRECTION: N 3°59'56.1868" W
CHORD DIRECTION: S 76°13'40.2811" W
RADIAL DIRECTION: N 23°32'43.2512" W
TANGENT DIRECTION: S 66°27'16.7488" W

CIRCULAR CURVE NO. 34

ELEMENT: CIRCULAR	STATION	NORTHING	EASTING
PC (804)	2005+04.95	220760.0183	756001.9184
PI (10.32)	2005+36.32	220747.4850	755973.1560
CC (805)		220611.5058	756066.6333
PT (806)	2005+66.93	220725.1199	755951.1524

RADIUS: 162.0000
DELTA: 21°55'17.4493" LEFT
DEGREE OF CURVATURE (ARC): 35°22'03.9546"
LENGTH: 61.9816
TANGENT: 31.3745
CHORD: 61.6043
MIDDLE ORDINATE: 2.9553
EXTERNAL: 3.0102
TANGENT DIRECTION: S 66°27'16.7488" W
RADIAL DIRECTION: N 23°32'43.2512" W
CHORD DIRECTION: S 55°29'38.0242" W
RADIAL DIRECTION: N 45°28'00.7005" W
TANGENT DIRECTION: S 44°31'59.2995" W

CIRCULAR CURVE NO. 35

ELEMENT: CIRCULAR	STATION	NORTHING	EASTING
PC (807)	2006+06.42	220696.9659	755923.4536
PI (10.33)	2006+28.03	220681.5661	755908.3027
CC (808)		220734.1360	755885.6728
PT (809)	2006+47.45	220681.1460	755886.7034

RADIUS: 53.0000
DELTA: 44°21'09.6533" RIGHT
DEGREE OF CURVATURE (ARC): 108°06'18.8797"
LENGTH: 41.0273
TANGENT: 21.6034
CHORD: 40.0106
MIDDLE ORDINATE: 3.9206
EXTERNAL: 4.2338
TANGENT DIRECTION: S 44°31'59.2995" W
RADIAL DIRECTION: N 45°28'00.7005" W
CHORD DIRECTION: S 66°42'34.1262" W
RADIAL DIRECTION: N 1°06'51.0471" W
TANGENT DIRECTION: S 88°53'08.9530" W

CIRCULAR CURVE NO. 36

ELEMENT: CIRCULAR	STATION	NORTHING	EASTING
PC (810)	2006+76.06	220680.5897	755858.0996
PI (1034)	2006+90.82	220680.3027	755843.3400
CC (811)		220780.5708	755856.1551
PRC (812)	2007+05.37	220684.2927	755829.1270

RADIUS: 100.0000
DELTA: 16°47'42.7275" RIGHT
DEGREE OF CURVATURE (ARC): 57°17'44.8062"
LENGTH: 29.3132
TANGENT: 14.7624
CHORD: 29.2083
MIDDLE ORDINATE: 1.0722
EXTERNAL: 1.0838
TANGENT DIRECTION: S 88°53'08.9530" W
RADIAL DIRECTION: N 1°06'51.0471" W
CHORD DIRECTION: N 82°42'59.6833" W
RADIAL DIRECTION: N 15°40'51.6806" E
TANGENT DIRECTION: N 74°19'08.3194" W

CIRCULAR CURVE NO. 37

ELEMENT: CIRCULAR	STATION	NORTHING	EASTING
PRC (812)	2007+05.37	220684.2927	755829.1270
PI (1035)	2007+23.88	220689.2952	755811.3072
CC (813)		220588.0145	755802.0988
PT (814)	2007+41.98	220687.5885	755792.8774

RADIUS: 100.0000
DELTA: 20°58'19.3717" LEFT
DEGREE OF CURVATURE (ARC): 57°17'44.8062"
LENGTH: 36.6031
TANGENT: 18.5087
CHORD: 36.3991
MIDDLE ORDINATE: 1.6701
EXTERNAL: 1.6984
TANGENT DIRECTION: N 74°19'08.3194" W
RADIAL DIRECTION: N 15°40'51.6806" E
CHORD DIRECTION: N 84°48'18.0054" W
RADIAL DIRECTION: N 5°17'27.6911" W
TANGENT DIRECTION: S 84°42'32.3089" W

CIRCULAR CURVE NO. 38

ELEMENT: CIRCULAR	STATION	NORTHING	EASTING
PC (815)	2007+81.78	220683.9185	755753.2484
PI (10.36)	2008+23.29	220680.0899	755711.9070
CC (816)		220745.6543	755747.5311
PRC (817)	2008+54.94	220716.8585	755692.6239

RADIUS: 62.0000
DELTA: 67°36'59.5537" RIGHT
DEGREE OF CURVATURE (ARC): 92°24'45.1714"
LENGTH: 73.1681
TANGENT: 41.5183
CHORD: 68.9955
MIDDLE ORDINATE: 10.4839
EXTERNAL: 12.6175
TANGENT DIRECTION: S 84°42'32.3089" W
RADIAL DIRECTION: N 5°17'27.6911" W
CHORD DIRECTION: N 61°28'57.9141" W
RADIAL DIRECTION: N 62°19'31.8627" E
TANGENT DIRECTION: N 27°40'28.1374" W

CIRCULAR CURVE NO. 39

ELEMENT: CIRCULAR	STATION	NORTHING	EASTING
PRC (817)	2008+54.94	220716.8585	755692.6239
PI (1037)	2008+91.36	220749.1062	755675.7118
CC (818)		220695.9584	755652.7719
PT (819)	2009+16.17	220739.2937	755640.6455

RADIUS: 45.0000
DELTA: 77°57'30.8207" LEFT
DEGREE OF CURVATURE (ARC): 127°19'26.2361"
LENGTH: 61.2285
TANGENT: 36.4133
CHORD: 56.6135
MIDDLE ORDINATE: 10.0182
EXTERNAL: 12.8872
TANGENT DIRECTION: N 27°40'28.1374" W
RADIAL DIRECTION: N 62°19'31.8627" E
CHORD DIRECTION: N 66°39'13.5476" W
RADIAL DIRECTION: N 15°37'58.9580" W
TANGENT DIRECTION: S 74°22'01.0419" W

INDEX

STATION XXXX (X) — CURVE IDENTIFICATION NO.; POINT NO.

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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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: RK&K | CHECKED BY: RK&K

HORIZONTAL AND VERTICAL CONTROL (MOT BASELINES)

CS04 | SHEET NO. 89 | TOTAL SHTS. 282

2/1/2013 11:15:41 AM
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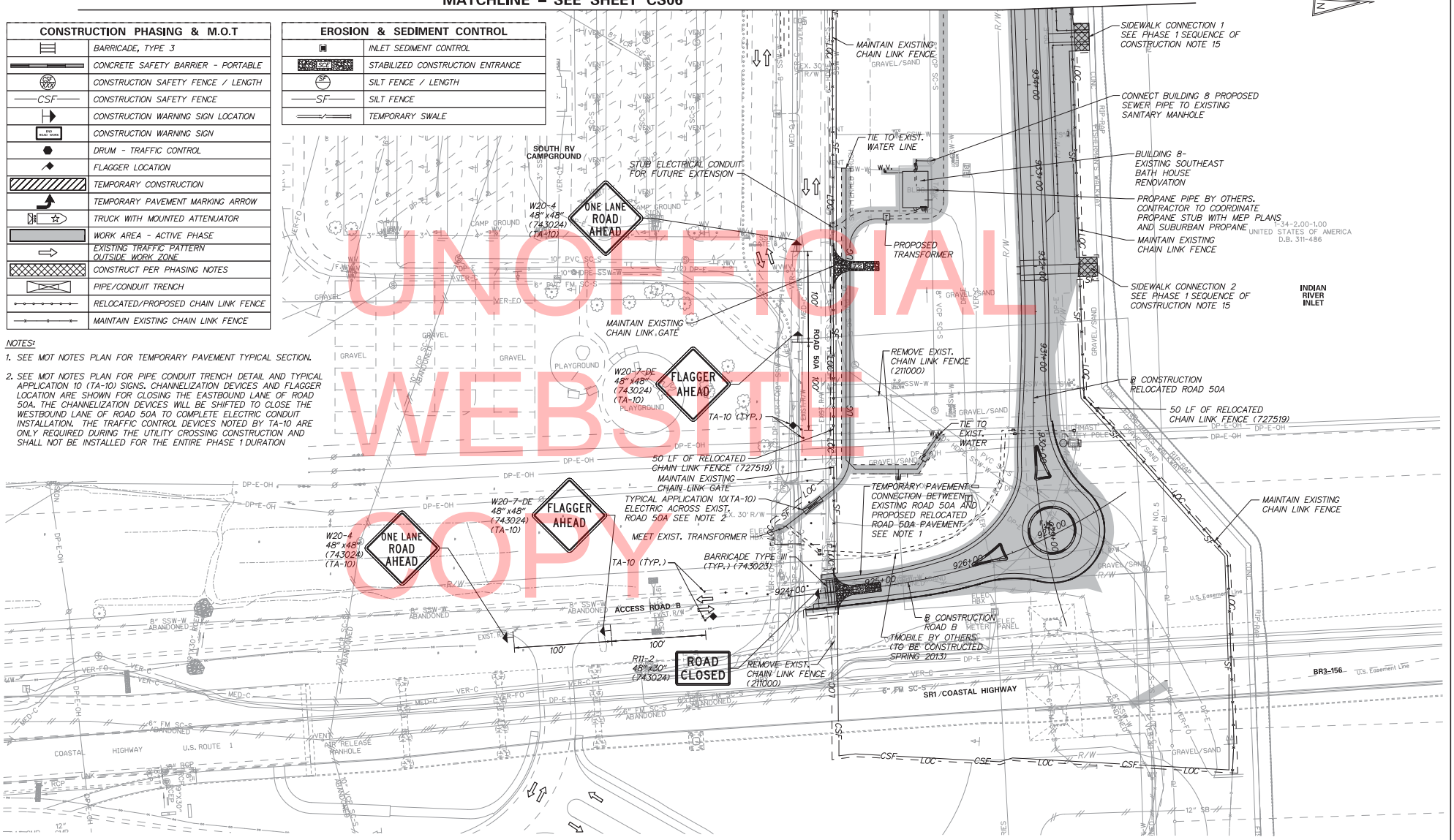
MATCHLINE – SEE SHEET CS06

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
—CSF—	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE
	EXISTING TRAFFIC PATTERN OUTSIDE WORK ZONE
	CONSTRUCT PER PHASING NOTES
	PIPE/CONDUIT TRENCH
	RELOCATED/PROPOSED CHAIN LINK FENCE
	MAINTAIN EXISTING CHAIN LINK FENCE

EROSION & SEDIMENT CONTROL	
	INLET SEDIMENT CONTROL
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF XXX	SILT FENCE / LENGTH
—SF—	SILT FENCE
	TEMPORARY SWALE

NOTES:

1. SEE MOT NOTES PLAN FOR TEMPORARY PAVEMENT TYPICAL SECTION.
2. SEE MOT NOTES PLAN FOR PIPE CONDUIT TRENCH DETAIL AND TYPICAL APPLICATION 10 (TA-10) SIGNS. CHANNELIZATION DEVICES AND FLAGGER LOCATION ARE SHOWN FOR CLOSING THE EASTBOUND LANE OF ROAD 50A. THE CHANNELIZATION DEVICES WILL BE SHIFTED TO CLOSE THE WESTBOUND LANE OF ROAD 50A TO COMPLETE ELECTRIC CONDUIT INSTALLATION. THE TRAFFIC CONTROL DEVICES NOTED BY TA-10 ARE ONLY REQUIRED DURING THE UTILITY CROSSING CONSTRUCTION AND SHALL NOT BE INSTALLED FOR THE ENTIRE PHASE 1 DURATION



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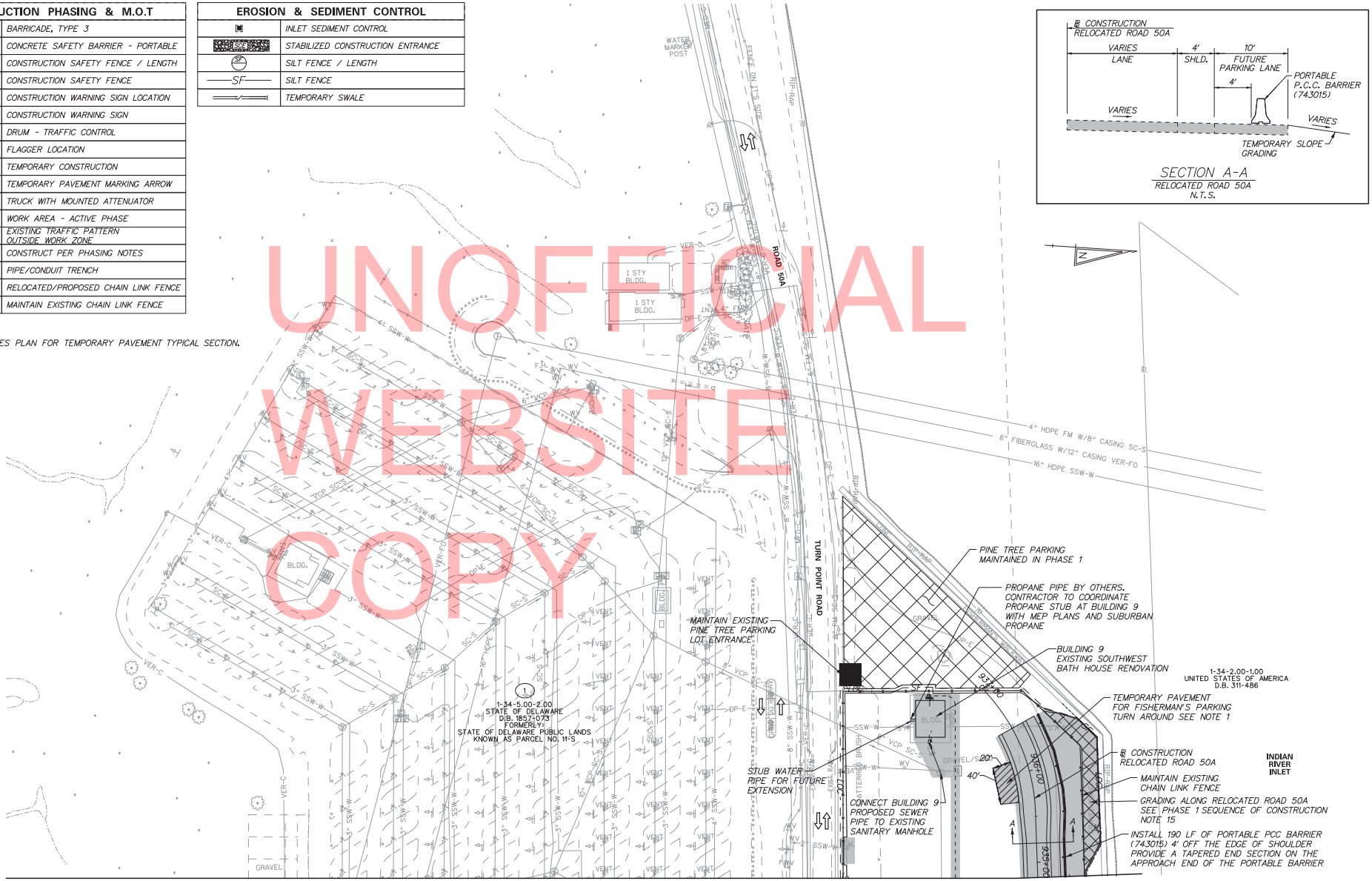
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN PHASE 1 – (BASE BID)	CS05
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 90
					CHECKED BY: RK&K		TOTAL SHTS. 282

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE
	EXISTING TRAFFIC PATTERN OUTSIDE WORK ZONE
	CONSTRUCT PER PHASING NOTES
	PIPE/CONDUIT TRENCH
	RELOCATED/PROPOSED CHAIN LINK FENCE
	MAINTAIN EXISTING CHAIN LINK FENCE

EROSION & SEDIMENT CONTROL	
	INLET SEDIMENT CONTROL
	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
	TEMPORARY SWALE

NOTE:

1. SEE MOT NOTES PLAN FOR TEMPORARY PAVEMENT TYPICAL SECTION.



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MATCHLINE – SEE SHEET CS05

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 50 100 150 FEET	INDIAN RIVER INLET PARK ENHANCEMENTS	CONTRACT T200507303	BRIDGE NO. X	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN PHASE 1 – (BASE BID)	CS06
				COUNTY SUSSEX	DESIGNED BY: RK&K		SHEET NO. 91
					CHECKED BY: RK&K		TOTAL SHTS. 282

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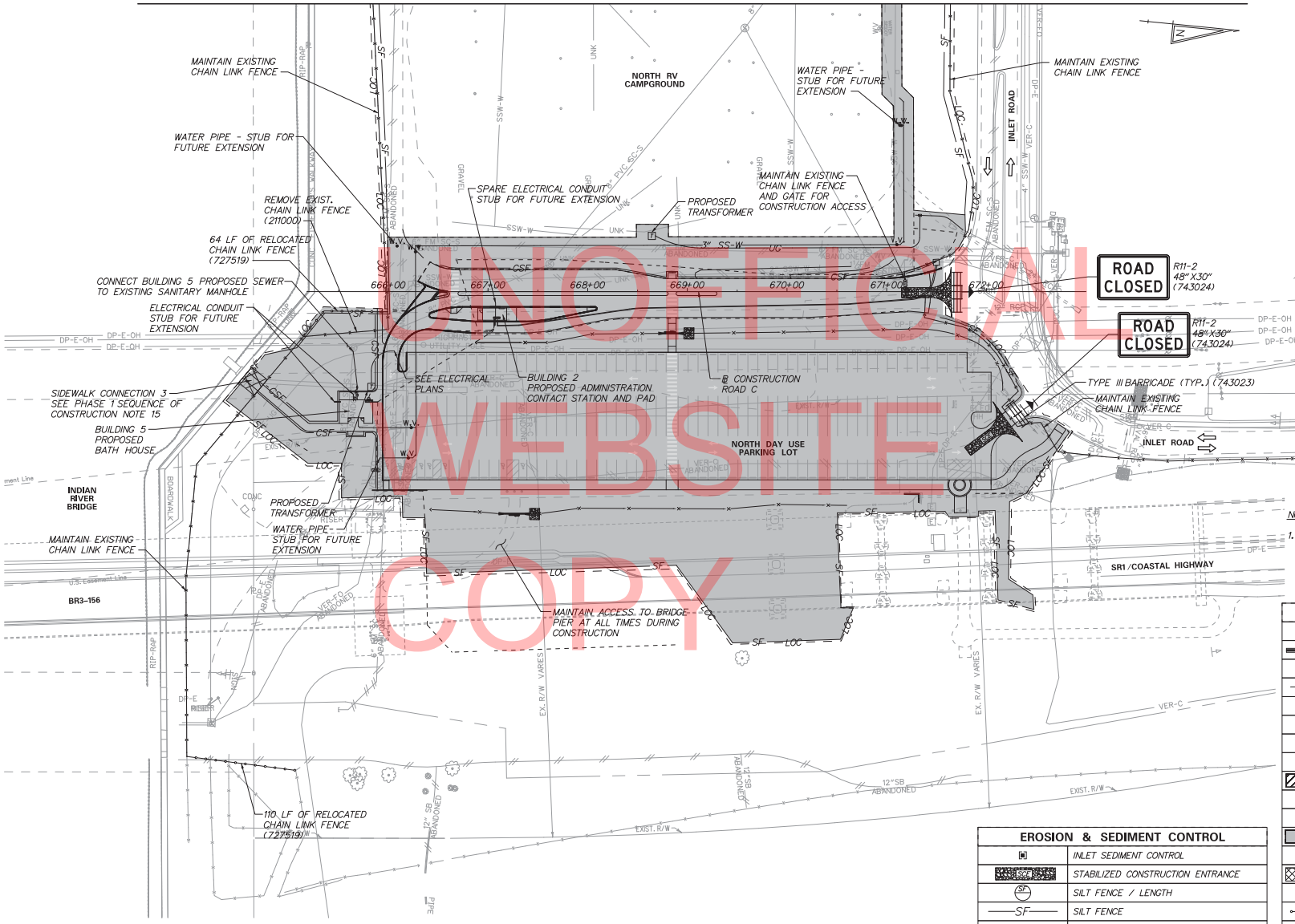
MATCHLINE – SEE SHEET CS08



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NOTES:

1. THE NORTH PARK WATER SERVICES WILL NEED TO BE CONSTRUCTED IN 2 PHASES. PHASE 1 IS SHOWN AND INCLUDES CONNECTION TO THE WATER MAIN AND SERVICE TO BUILDING 5. THE PHASE 1 WATER WILL NEED TO BE CONSTRUCTED, TESTED AND PLACED IN SERVICE PRIOR TO THE CONSTRUCTION OF THE PHASE 2 WATER SERVICES.

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE
	EXISTING TRAFFIC PATTERN OUTSIDE WORK ZONE
	CONSTRUCT PER PHASING NOTES
	PIPE/CONDUIT TRENCH
	RELOCATED/PROPOSED CHAIN LINK FENCE
	MAINTAIN EXISTING CHAIN LINK FENCE

EROSION & SEDIMENT CONTROL	
	INLET SEDIMENT CONTROL
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
	TEMPORARY SWALE

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 PHASING, M.O.T., AND EROSION CONTROL PLAN PHASE 1 – (BASE BID)

CS07
SHEET NO. 92
TOTAL SHTS. 282

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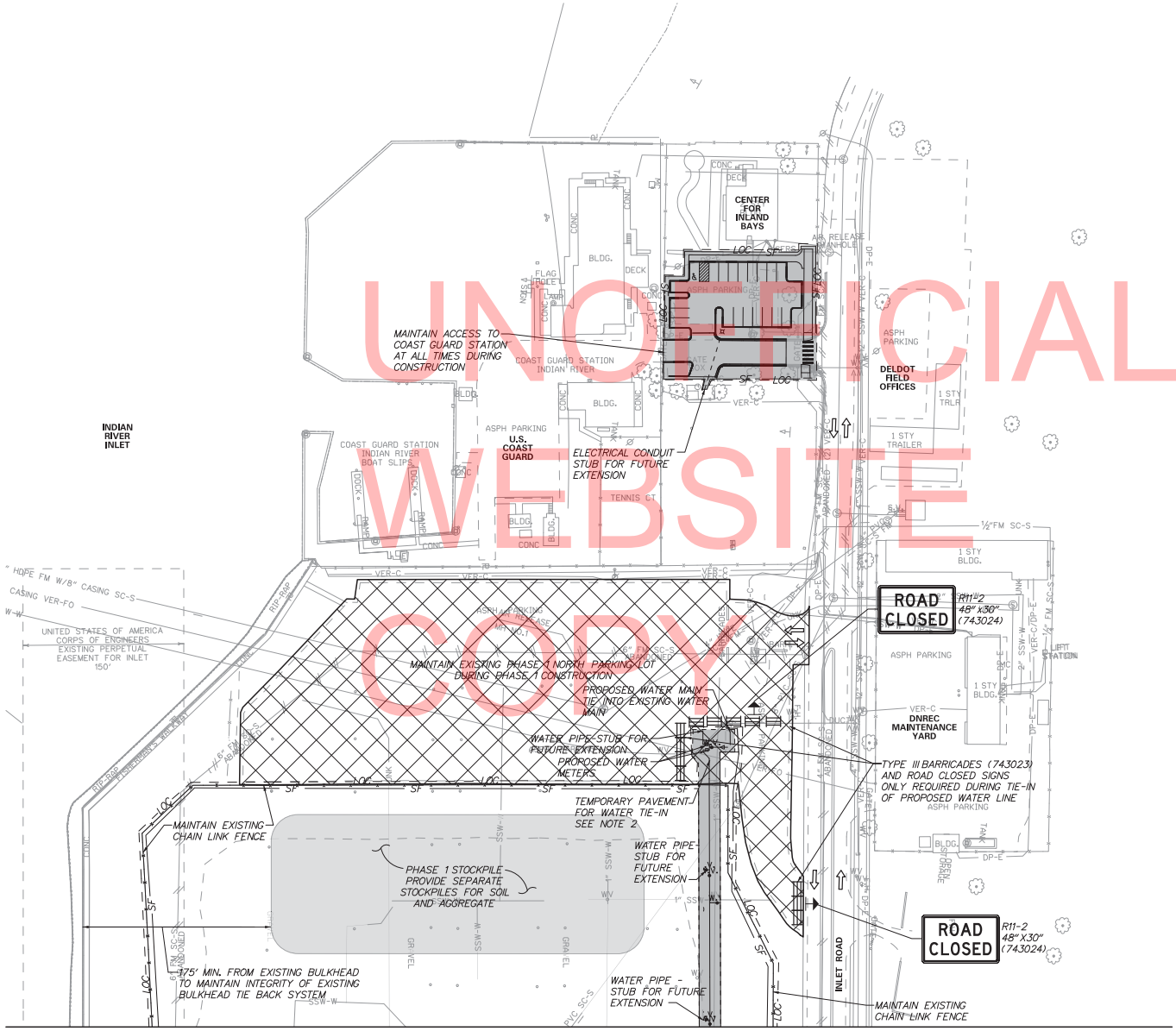

MATCHLINE – SEE SHEET CS07

NOTES:

1. THE COMPREHENSIVE NORTH PARK WATER SERVICES WILL NEED TO BE CONSTRUCTED IN 2 PHASES. PHASE 1 IS SHOWN AND INCLUDES CONNECTION TO THE WATER MAIN AND SERVICE TO BUILDING 5. THE PHASE 1 WATER WILL NEED TO BE CONSTRUCTED, TESTED AND PLACED IN SERVICE PRIOR TO THE CONSTRUCTION OF THE PHASE 2 WATER SERVICES.
2. SEE MOT NOTES PLAN FOR TEMPORARY PAVEMENT TYPICAL SECTION.
3. DURING WATER MAIN TIE-IN, CONTRACTOR TO MOVE EXISTING FENCE AND INSTALL TYPE III BARRICADES WITH SIGNS. UPON COMPLETION OF THE WATER MAIN TIE-IN AND RESTORATION, CONTRACTOR TO RE-ESTABLISH CONTINUOUS FENCE AND REMOVE THE TYPE III BARRICADES AND SIGNS.

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF 200'	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
ONE ROAD WORK	CONSTRUCTION WARNING SIGN
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE
	EXISTING TRAFFIC PATTERN OUTSIDE WORK ZONE
	CONSTRUCT PER PHASING NOTES
	PIPE/CONDUIT TRENCH
	RELOCATED/PROPOSED CHAIN LINK FENCE
	MAINTAIN EXISTING CHAIN LINK FENCE

EROSION & SEDIMENT CONTROL	
	INLET SEDIMENT CONTROL
	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
	TEMPORARY SWALE

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 PHASING, M.O.T., AND EROSION CONTROL PLAN PHASE 1 – (BASE BID)

CS08
SHEET NO.
93
TOTAL SHTS.
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