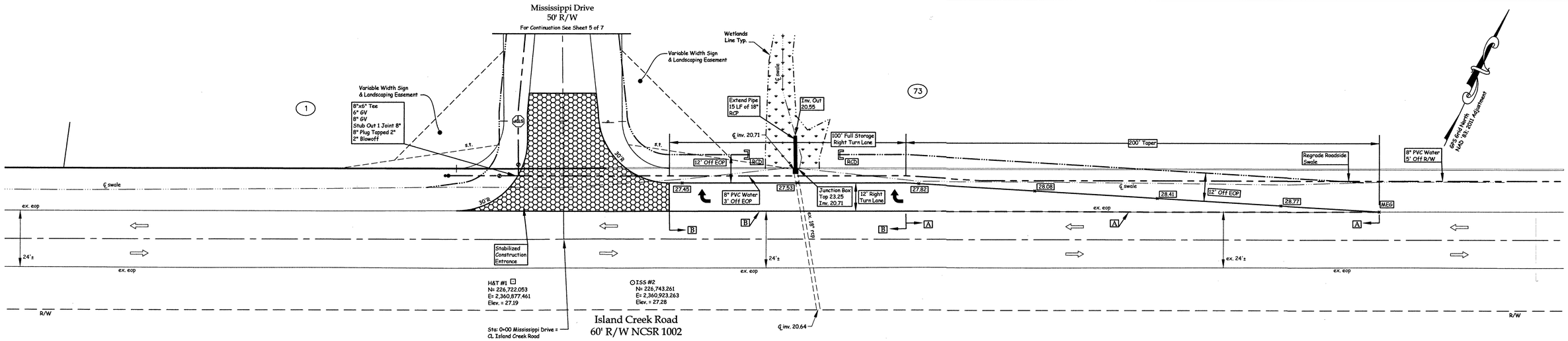
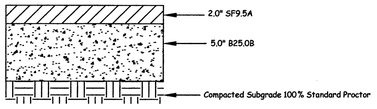


GRAPHIC SCALE: 1"=20'

0 10 20 40 60

FEET



Turn Lane Paving Schedule

Not to scale

PAVEMENT MARKING SCHEDULE

A - Mini-skip white 4"x2' @ every 15'

B - Solid White 4"

Note:

Contractor shall insure that he and all his workers (contractors, subcontractors and other site personnel) do not damage construction stakes or other measures used in laying out the project whether by the Engineer or another entity including those under the employ of the contractor. Contractor shall cause his workers to observe and verify to the fullest extent practicable that stakes, other measures and grades are, or appear to be, accurate and correct, and immediately, but prior to any associated work, notify the staking entity of any potential conflict, error or question regarding the work. The Engineer shall not be responsible if all of the above measures are not strictly adhered to. The Engineer shall not be responsible where due to damage, his staking can not be verified. For critical or costly components of the work, where the contractor believes that staking may not be preserved, the contractor shall request the staking entity to place staking in an area where its preservation can be insured.

ROADS & DRAINAGE NOTES:

1. The streets to be constructed for this project are subject to the Department of Transportation Certification Program and Quality Management System Maintenance Version Requirements. The Contractor, at his expense, shall provide test results on 1) Subgrade, 2) Base and 3) Pavement. The Contractor shall insure that all construction and testing is performed in accordance with the N.C. Department of Transportation "Standard Specifications for Roads and Structures", latest edition, 2003 Hot Mix Asphalt Specifications and Manual, and "Quality Management System Maintenance Version", and shall report the testing and /or core locations, test method, results and D.O.T. allowable range or tolerance, as applicable. Subgrade shall be tested for density and shall be proofrolled by the testing Engineer or the Engineer or Surveyor who will issue the Final Certification. Base and pavement shall both be tested for density and thickness. If Parker & Associates is administering the construction they must also proofroll the stone. Testing for pavement shall be certified by either a professional Engineer or properly certified QMS technician and shall be in accordance with QMS criteria. Required thickness for this project is as shown on the plans.

Note that thickness for widening or turn lanes is greater than that for internal streets.

2. Minimum Densities:
   Subgrade 100%
   Stone Base 100%
   SF 9.5A 90%
   S 9.5B 92%
   B 25.0B 92%
3. Notify the Engineer or Surveyor, who will issue the overall Final Certification, of all phases of Roadway Construction.
4. A minimum sight distance of 10'X70' shall be maintained along the right-of-way of all internal intersections.
5. 20 foot radii at right-of-way intersections, 30 foot radii at edge of pavement intersections.
6. All culverts under streets shall be reinforced concrete per North Carolina Department of Transportation Specifications, unless otherwise specified and/or approved by the Engineer and/or Department of Transportation.
7. All materials and practices shall meet North Carolina Department of Transportation Standards.
8. For other detailed construction notes, see plan and profiles.

Legend:

C - Centerline
E - Easting
Elev. - Elevation
eop - Edge of Pavement
ex. - Existing
GV - Gate Valve
H&T - Hub and Tack
inv. - Invert
ISS - Iron Stake Set
N - Northing
rcp - Reinforced Concrete Pipe
R/W - Right-of-way
s.t. - 10'x70' Sight Triangle
Sta. - Station

- Existing Traffic Flow Arrow
- 73 - Lot Number
- Proposed Traffic Flow Arrow
- STOP - Stop Sign
- Street Sign
- Wetlands
- Existing Ditch/Swale
- Proposed Ditch/Swale
- Proposed Waterline
- Wetlands Line

Turn Lane Notes

1. New pavement shall have a 1/4" per foot minimum slope away from centerline If existing road is crowned, the slope shall continue away from the centerline. In no areas shall the new asphalt be installed without a slope.
2. Construction of turn lanes to consist of 5" of Superpave B 25.0B asphalt base, and 2.0" of Superpave S 9.5A asphalt surface course.
3. Strip vegetation from existing shoulder and ditch and muck existing ditch, as needed, and fill with compacted select fill.
4. Subgrade shall be proof rolled and tested prior to installation of base course. All testing shall be conducted by soils engineer. For additional testing requirements, see Roads and Drainage notes.
5. Edge of existing asphalt shall be saw cut straight then tacked prior to addition of pavement widening.
6. Contractor shall provide traffic control measures per D.O.T. requirements.
7. Contractor shall locate all existing underground utilities prior to beginning any construction.
8. Contractor is responsible for the coordination of the relocation of existing utilities with the utility company such as cable tv lines and boxes, phone cables and boxes, power poles and guy wires.
9. All work shall be performed in accordance with N.C. D.O.T. requirements. (See Road & Drainage Notes For Testing Requirements) Particular attention should be paid to exercising the appropriate traffic control and safety measures during the course of construction. See Driveway Permit for additional requirements.
10. The contractor is responsible for the relocation of any items such as mail boxes, signs, drive markings, etc. in order to accommodate the new pavement and roadside ditch section.
11. The contractor shall make every effort to minimize disturbance and disruption of adjoining properties. Any disturbed areas, structures, etc. shall be restored to pre-construction conditions. A neat, dressed up project site will be required before final payment is made.
12. Any shrubs or trees within the right-of-way that are necessary to remove to properly construct turn lanes and roadside ditches, shall be removed and properly disposed of. Contractor shall not disturb any shrubs, trees, signs or other structures that are outside the road right-of-way.
13. The contractor shall make every effort to minimize disturbance and disruption of adjoining properties. Any disturbed areas, structures, etc. shall be restored to pre-construction conditions. A neat, dressed up project site will be required before final payment is made.
14. All disturbed areas shall be seeded within 15 days of completing grading activities in accordance with the following schedule: Apply lime and fertilizer and work into seed bed. Seed mixture shall be distributed uniformly and covered with a clean straw mulch. Mulch shall be crimped or tacked to help hold in place. Material and Application Rates are as follow and are generally considered to be minimums. * Mulch rate to be double if crimped *

Material	Application Rate
Lime	2000 lbs/ac.
Fertilizer (10-10-10)	800 lbs/ac.
Mulch	1.5 tons/ac.
Asphalt Tack	435 gal/ac. max
Permanent Seeding	
"Rebel" Fescue	100 lbs/ac.
Common Bermuda	
(Hulled Apr. 1 - Sept. 1)	50 lbs/ac.
(Unhulled Sept. 1 - Apr. 1)	75 lbs/ac.
Rye Grain (Sept. 1 - Apr. 1)	50 lbs/ac.
German Millet (Apr. 1 - Sept. 1)	50 lbs/ac.
Temporary Seeding	
Dec. 1 - April 15	
Koba Lespedeza	50 lbs/ac.
Rye Grain	100 lbs/ac.
April 15 - August 15	
German Millet	40 lbs/ac.
August 15 - Dec. 15	
Rye Grain	100 lbs/ac.

15. All storm drain piping shall be reinforced concrete pipe.
16. The contractor will be required to install thermoplastic pavement marking lines and symbols and raised reflector pavement markers in accordance with standard N.C. D.O.T. specifications. The contractor shall obtain approval of marking layout from N.C. D.O.T. before applying final product.

NORTH CAROLINA PROFESSIONAL SEAL 34978 ENGINEER JASON A. HOUSER 12/10/14

Field Book: Island Creek, Pg. 1-13, Island Creek 2 Pg. 1-7
Data Collector: ISLAND CREEK, ISLAND CREEK 2, ISLAND CREEK 3, ISLAND CREEK 4, ISLAND CREEK 5, ISLAND CREEK 6, ISLAND CREEK 7, ISLAND CREEK 8
Disk Name: Acad #2501
Filename: IC-Preliminary Gen.dwg BLD
Job No.:S140217-5746

Sheet 13 of 15

Turn Lane Plan

THE RESERVE ON ISLAND CREEK

Topsail Twp., Pender Co., North Carolina

Owner/Developer:

IC3 Partners, LLC

PO Box 7122
Jacksonville, NC 28541
(910) 455-6956

DATE: 10/17/14

SCALE: As Noted

Parker & Associates, Inc.
Consulting Engineers - Land Surveyors - Land Planners
P.O. Box 976 - 28541-0976
308 New Bridge Street - 28540
Jacksonville, North Carolina
Phone (910) 455-2414 - Fax (910) 455-3441
Firm License Number: F-0108

Rev. 12/09/14 BLD - Revise Sight Triangles, Owner, and Water Location

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